BOE

Basis of Estimates

2009

State Specifications and Estimates Office
Estimating Systems Support Section

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Basis of Estimates

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Introduction
BASIS OF ESTIMATES MANUAL

I.1 PURPOSE

The ***Basis of Estimates Manual*** sets forth the Department's standard method of documenting design quantities, as well as selection criteria, for construction pay items for Florida Department of Transportation (FDOT) projects.

I.2 AUTHORITY

Sections 334.044(2), 20.23(3)(a), 334.048(3), Florida Statutes (F.S.)

I.3 SCOPE

This procedure impacts anyone preparing construction plans or specifications for the Department.

I.4 GENERAL INFORMATION

Chapter 334 of the ***Florida Statutes***, as part of the ***Florida Transportation Code,*** establishes the responsibilities of the State, counties, and municipalities for the planning and development of the transportation systems serving the people of Florida, with the objective of assuring development of an integrated, balanced statewide system. The ***Code's*** purpose is to protect the safety and general welfare of the people of the State and to preserve and improve all transportation facilities in Florida. Under ***Sections 20.23(3)(a) and 334.048(3), F.S.***, the ***Code*** sets forth the powers and duties of the Department of Transportation including adopting rules, procedures and standards for the conduct of its business operations and the implementation of any provisions of law for which the Department is responsible.

I.5 DISTRIBUTION

This document is published online at http://www.dot.state.fl.us/estimates. Contacts, updates and registration information are available at the Basis of Estimates link on the above internet web page.

I.6 REGISTRATION

All users are encouraged to register online with the FDOT Project Management Contact Database located at http://www.dot.state.fl.us/projectmanagementoffice/contactdatabase.htm . Registered users will receive e-mail notification of major updates and bulletins.

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I.7 REVISIONS and UPDATES

Basis of Estimates holders are encouraged to submit comments and suggestions for changes to this manual to the State Specifications and Estimates Office. When ideas or suggestions are received, they will be reviewed by appropriate Design and/or Construction staff in a timely manner, and will be coordinated with other offices affected by the proposed change. Issues warranting immediate change will be made with the approval of the State Estimates Engineer in the form of an ***Estimates Bulletin***. ***Estimates Bulletins*** will be posted online at http://www.dot.state.fl.us/estimates.The State Specifications and Estimates Office will also coordinate proposed revisions or additions with affected offices within the Central Office. Substantive revisions that result in policy change will be coordinated in accordance with Procedure No. 025-020-002, Standard Operating System.

Basis of Estimates Coordinator,
FDOT State Specifications and Estimates Office
605 Suwannee St., MS 34
Tallahassee, FL 32399-0450
http://www.dot.state.fl.us/estimates

Updates are posted online at least twice a year. Issues resulting in an ***Estimates Bulletin*** will be updated as approved by the State Estimates Engineer. Additions, minor issues, or corrections not requiring a bulletin will be updated as needed.

I.8 TRAINING

No training required. Optional training on the ***Basis of Estimates***, reports, and supporting computer systems is available through the Estimating Systems Support section of the State Specifications and Estimates Office.

I.9 FORMS

The Pay Item Request form is available online at
http://www2.dot.state.fl.us/proceduraldocuments/forms/forms.asp
The use of this form is optional; refer to Chapter 6 for complete information.

Revision History

10-1-2008: Updated header dates for 2009 edition. Forms- added note to indicate form is optional.

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BOE

Basis of Estimates

Chapter 1

Updates & Registration

State Specifications and Estimates Office
Estimating Systems Support Section

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Chapter 1
Updates and Registration

1.1 Registration

All users of the Basis of Estimates (BOE) are encouraged to register with the Contact Database at http://www.dot.state.fl.us/projectmanagementoffice/contactdatabase.htm . Registration is free. Additional information about the contact database is available at the web page,

1.2 Update notices

An e-mail message is sent to all registered users when **major** updates occur, normally twice a year. The e-mail message will remind users to go to the Estimates Office web pages for the BOE, as well as to read the Summary of Major Changes, also known as the "Cover Letter".

Special Update notices, Estimates Bulletin announcements, or other e-mail messages may be sent to registered users. These e-mail messages will only be sent when it is determined that an issue has a "significant impact" on a large number of users, with approval of the State Estimates Engineer.

Minor changes will be posted online, as needed. Note the revision date for the applicable file or chapter. A summary of minor changes will be posted online, with the major updates.

1.3 Proposed Changes

Users are encouraged to submit comments and suggestions for changes to the BOE. All items will be reviewed by the BOE Coordinator, and processed as follows:

a) Pay item Issues: Refer to Chapter 6 for additional information.

b) Formatting Issues: Evaluated by the BOE Coordinator.

c) Other Content Issues: Evaluated by the BOE Coordinator and/or the responsible office.

Issues forwarded to the C-Team are processed as detailed in Chapter 6. Other issues requiring review will be discussed with the State Estimates Engineer, and processed as recommended.

1.4 Submitting Proposed Updates

To submit a comment or suggestion, send the appropriate information to the BOE Coordinator or State Estimates Engineer. Contact Information is listed in Chapter 5, and on the State Estimates Office's web pages.

Please include the complete pay item number (if applicable), a detailed explanation of the proposal, and contact information (if you would like a response).

1.5 Critical Dates for BOE Updates

In order to process changes in a timely manner, please submit proposed changes as early as possible. What may appear as a minor change for one office may result in major changes for another office. With assistance from the Coordination team, all issues will be resolved prior to announcement in an Estimates Bulletin or Summary of Major Changes.

The following dates are normal processing deadlines. Issues impacting a significant number of projects and/or dollar value may require longer or shorter processing times, as recommended by FDOT managers.

Deadline	Annual Edition	Mid-Year Update
Normal Implementation of issues*	July letting	January letting
Publication Date (approx 6-9 months prior to implementation)	October-January	April -June
Other affected specifications, manuals and/or handbooks**	varies	varies

*Issues with less than 6 months advance notice will normally be issued as a Bulletin, Mandatory, or other special announcement to registered users.
**Contact the responsible office for critical dates and update procedures. Specifications, manuals, and handbooks may take 6-18 months from start to implementation.

Chapter 1 Revision History

10-1-2008: Updated header dates for 2009 edition.

BOE

Basis of Estimates

Chapter 2
Units of Measure:
Abbreviations & Conversion Factors

State Specifications and Estimates Office
Estimating Systems Support Section

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Chapter 2
Units of Measure

2.1 Abbreviations

Listed below are selected abbreviations used in the Basis of Estimates. For a more complete list of abbreviations, refer to Design Standards, Index No. 001.

AC	Acre
AS	Assembly*
BU	Bushel
CF	Cubic Foot
CO	Cleanout*
CY	Cubic Yard
DA	Day
DD	Dollars per Day
EA	Each
ED	Each Day
GA	Gallon
GK	Gross Kilometer
GM	Gross Mile
HA	Hectare
HR	Hour
KG	Kilogram
KL	Kiloliter
KM	Kilometer
LB	Pound
LF	Foot
LI	Liter
LO	Location
LS	Lump Sum
LU	Luminaire
M1	Meter
M2	Square Meter
M2	Square Meter
M3	Cubic Meter
MB	Board Measure/ Thousand Feet
MG	Thousand Gallons
MH	Man-hour**
MI	Mile
MO	Month
MT	Metric Ton
NK	Net Kilometer

NM	Net Mile
PA	Per Analysis*
PB	Per Building*
PI	Per Intersection*
PL	Plant*
PM	Per Mile*
PS	Per Set*
PW	Per Well*
SF	Square Foot
SY	Square Yard
TH	Therms
TN	Ton
YD	Yard

*Units which may be replaced with unit of Each (EA), upon pay item review
** Units may be replaced with Hour (HR), upon review.

2.2 CONVERSION FACTORS

Linear Measure
25.4 mm/in
0.03937 in/mm
0.3048 m/ft
3.2808 ft/m
0.9144 m/yd
1.0936 yd/m
1.609 km/mi
0.621 mi/km

Area Measure
9 ft^2/yd^2
0.836 m^2/yd^2
1.2 yd^2/m^2
0.40 ha/ac
4047 m^2/ac
2.477 ac/ha
43,560ft^2/ac
4840 yd^2/ac
640 ac/mi^2
0.386 mi^2/km^2
2.590 km^2/mi^2

Volume, Liquid Measure
1728 in^3/ft^3
0.028 m^3/ft^3
0.765 m^3/yd^3
27 ft^3/yd^3

0.2642 gal/l
3.785 l/gal

Force, Weight Measure
2.205 lb/kg
1.10 TN/MT
0.907 MT/TN (short ton)
2000 lb/ton (short ton)
1000 kg/MT

Additional items to be added upon request.

Chapter 2 Revision History

10-1-2008: Updated header dates for 2009 edition

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BOE

Basis of Estimates

Chapter 3

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State Specifications and Estimates Office
Estimating Systems Support Section

Chapter 3

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Chapter 3 Revision History

10-1-2008: Updated header dates for 2009 edition. Deleted “Alphabetical Index” chapter. Users, please use search/find, as needed.

BOE

Basis of Estimates

Chapter 4

Blank– Future Use

State Specifications and Estimates Office
Estimating Systems Support Section

Chapter 4

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Chapter 4 Revision History

10-1-2008: Updated header dates for 2009 edition.

BOE

Basis of Estimates

Chapter 5
Contact Lists

State Specifications and Estimates Office
Estimating Systems Support Section

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Chapter 5
Contact Lists

The Basis of Estimates is the result of coordination between District Estimates Offices and Central Office Design, Construction, and Maintenance. Issues are identified in the districts, options are proposed through the Responsible Offices, and finally, recommendations are presented for management approval and statewide implementation.

In general, **Designers should coordinate with the FDOT Project Manager.** Pay item issues should be forwarded through the District Estimates and Specifications Coordinator(s) to the Central Office BOE Coordinator. Issues that require major changes (plans, standards, specifications, pay items, or other manuals) will be coordinated between the Responsible Offices, and any recommendations will be forwarded from the Coordination Team. Refer to the tables below for District and Responsible Office contacts.

5.1 CENTRAL OFFICE PAY ITEM COORDINATORS

CENTRAL OFFICE	COORDINATOR	LOCAL
Estimates, Engineering Support Services		
Basis of Estimates	Melissa Hollis	850-414-4182
Long Range Estimates	Dale Stanley	850-414-4197
TRNS*PORT PES/CES	Cheri Sylvester	850-414-4179
Final Estimates	David Chason	850-414-4171
Construction COMP Book forms	Sherry Valdez	850-414-4249
Specifications	Rudy Powell Frances Thomas	850-414-4280 850-414-4101
Construction	Stefanie Maxwell	850-414-4314
Maintenance	Deanna Carroll	850-410-5757
CADD	Bill Gerry	850-245-1600
	Michelle Guynn	850-245-1621

5.2 DISTRICT COORDINATORS

DISTRICT	COORDINATOR (Titles vary by District)	LOCAL
First	**Specifications:**	
	John Previte	863-519-2679
	Estimates:	
	Gena Batman	863-519-2558
Second	**Specifications:**	
	Teresa Thrasher	386-961-7470
	Estimates:	
	Richard Rountree	386-758-3759
	Chris O'Gara	386-961-7708
Third	**Specifications:**	
	Robert Ellis	850-415-9459
	Estimates:	
	Phillip Smith	850-415-9361
	Heath Riley	850-415-9567
Fourth	**Specifications:**	
	Ben Burton	954-777-4135
	Estimates:	
	Gene Lipscomb	954-777-4691
Fifth	**PS&E:**	
	Ed Kestory	386-943-5185
	Specifications:	
	Anne Brewer	386-943-5177
	Estimates:	
	Yougens Pierre	386-943-5415
	Jonathan Linforth	386-943-5185
	Carol Tillis	386-943-5225
	Thomas Maultsby	386-943-5152
	Anna Porter	386-943-5191
Sixth	**Specifications:**	
	Hong Benitez	305-470-5268
	Estimates:	
	Rubin Rivero	305-470-5259
Seventh	**PS&E:**	
	Jason Spilak	813-975-6799
	Specifications:	
	Brian Shroyer	813-975-6279
	Estimates:	
	Beth Carlson	813-975-6139
Turnpike	**PS&E:**	
	Don Brackins	407-532-3999 x3437
	Specifications:	
	Bill Newlin	407-532-3009
	Estimates:	
	Steven Sheffield	407-264-3444

NOTE: Some districts operate as a "PS&E" group (Plans, Specifications, & Estimates), while others have separate offices. Additional names and/or descriptions may be added upon request of the District Office(s).

5.3 CONTACT PERSONS- BY PAY ITEM NUMBER RANGE

ITEM NUMBERS	SUBJECT/GROUP		CENTRAL OFFICE COORDINATOR	PHONE
100-102	MOT		Cheryl Adams	850-414-4327
103	Temporary Structures		Robert Robertson	850-414-4267
104	Erosion Control	Drainage	Jerome Taylor	850-414-4355
		Environmental	Joshua Boan	850-414-5266
106-108	Environmental	Coordinator	Jeff Caster	850-414-5267
		Water/Erosion Control	Joshua Boan	850-414-5266
		Air Quality	Jeff Caster	850-414-5267
		Decontamination/Hazardous Materials	Jeff Caster	850-414-5267
109	Field Office		Stefanie Maxwell	850-414-4314
110-199	"Dirt" Earthwork	Roadway	Cheryl Adams	850-414-4327
		Erosion Control	Joshua Boan	850-414-5266
		Topsoil/Vegetation	Jeff Caster	850-414-5267
200-299	Base Courses		Emmanuel Uwaibi	850-414-4372
300-399, except 346-347	Surface Courses, Concrete Pavement		Emmanuel Uwaibi	850-414-4372
346-347	Concrete		Robert Robertson	850-414-4267
400-499, except 425-449	Structures		Robert Robertson	850-414-4267
425-449	Drainage Structures		Jerome Taylor	850-414-4355
500-515	Incidental Construction- Structures		Robert Robertson	850-414-4267
516-550	Incidental Construction- Roadway Items		Andy Keel	850-414-4323
551-569	Incidental Construction- Structural Paint		Robert Robertson	850-414-4267
570-599	Incidental Construction- Landscaping	Coordinator	Jeff Caster	850-414-5267
		Vegetation/Irrigation	Jeff Caster	850-414-5267
		Wetland Monitoring	Jeff Caster	850-414-5267
600-699	Traffic Control Devices (Signals)		Chester Henson	850-414-4117
700-714	Traffic Control		Chester Henson	850-414-4117
715	Traffic Control- Lighting		Chester Henson	850-414-4117
720-740	Incidental Construction- Other		Andy Keel	850-414-4323
741-749	Incidental Construction- Traffic Monitoring (TMS)			
750-770	Incidental Construction- Other		Andy Keel	850-414-4323
780-789	Intelligent Transportation Systems (ITS)		Gene Glotzbach	850-410-5616
800-899	Mass Transit (Railroad)			
1000-1999	Utilities		Gordon Wheeler	850-414-4366

Chapter 5 Revision History

10-1-2008: Updated header dates for 2009 edition.
10-1-2008: Updated CO Specs contact information.
5-28-08: Updated contact information for Districts 3.

BOE

Basis of Estimates

Chapter 6
Requesting Pay Items

State Specifications and Estimates Office
Estimating Systems Support Section

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Chapter 6
Requesting Pay Items

6.1 General

Occasionally a project requires the use of a pay item that is not currently active in the Master Pay Item Listing, or not defined in the Pay Item Structure. When this occurs, a request must be submitted. ***All pay item requests must go through the District Estimates Engineer.*** *See the instructions below for Opening Pay Items (Items which are listed on the pay item structure) or Requesting New Items (Items which require a new/expanded structure).*

Note: According to the Plans Preparation Manual, Volume II, Chapter 2, items should be loaded for a project at Phase II. Quantities should be completed in Phase III. Due to processing times noted below, **items should be requested as soon as a need is identified.** DO NOT WAIT until Phase III or IV submittals are due.

Note: The Specifications Office requires that Technical Special Provisions (TSPs) be submitted along with **new** pay item requests. To avoid production delays, TSPs should be submitted for District Review as soon as a need is identified. Refer to the Specifications Office's web page at www.dot.state.fl.us/specificationsoffice for additional instructions.

6.2 Opening Pay Items

For items included in the Pay Item Structure, but not currently open on the Master Pay Item list, submit the following information via e-mail to the District Estimates Engineer:

Financial Project ID,
Letting date,
FDOT project manager's name,
Pay item number and description,
Cost data: Supplier (name, address, phone number) and unit price. (For commonly used items, a related pay item number is acceptable),
Contact name and phone number.
For Tech Spec items: Coordinate with the District Specifications Office before requesting pay items.

SAMPLE E-Mail for Opening Pay Items
(with Valid Pay Item Structure)

TO: District Estimates Engineer
Copy: Project Manager
From: Designer
Subject: Pay Item Request, Project 123456-1-52-01

Please open the following Pay Item(s) for Project 123456-1-52-01, scheduled for 01/01/2010 letting:

0123-456 Item Description (size)(shape defined in structure), EA
Approval of the Tech Spec is included below. (E-mail forwarded from District Specifications' approval.)

0123-457 Item Description (size in structure), LS
Covered by current specifications.

Requested By: Joe Designer, ABC Company, phone 850-555-1212.

The District Estimates Engineer will review the request, verify specification status as needed, and forward the information to the TRNS*PORT Coordinator in the State Estimates Office.

While **most requests are completed within 2 hours**, please allow up to 2 working days for items to be opened. Upon completion of the request, a "reply to all" e-mail will be sent so that the item(s) may be loaded on the identified project(s).

6.3 Requesting New Items

To expand or request a new pay item structure, submit the following information via e-mail to the District Estimates Engineer (form 600-000-02 may be used, as needed)

- Item Description and suggested unit of measure, accuracy
- BOE Detail text,
- Proposed pay item structure (if applicable for items with multiple sizes, functions, etc.)
- Specifications (refer to current specification section, or attach proposed Developmental and/or Technical Special Provision)
- PPM reference, standards, and/or plan notes that may apply,
- Supporting information (drawings, Manufacturer's literature, etc.), if available
- Cost data: Supplier (name, address, phone number) and unit price. (For commonly used items, a related pay item number is acceptable),
- Contact name, e-mail address, and phone number of Designer and/or Project Manager
- Financial Project ID & Letting Date

The District Estimates Engineer forwards the request to the State Estimates Office. It is reviewed by the responsible office(s), Specifications Office, and then returns to the Estimates Office. Each office has the opportunity to indicate if the proposed change affects current documents (specifications, standards, and/or other manuals).

Requests for items with no known impact on specifications, standards, or other manuals (normally expanded sizes, shapes, etc.) will be completed within 2 working days*. Upon completion of the request, the originator will be contacted, so that the item may be loaded on the identified project.

***NOTE: While minor changes to the pay item structure can be completed within 2 hours, other changes may require additional time.** When a pay item request MAY involve a new/changed specification, existing pay item, standard, and/or manual, the request will be forwarded to the C-Team for evaluation. Updates to these items may involve extended industry review period(s) and coordination for implementation. Requests for new items should be submitted as early as possible in the design phase. Refer to the C-Team information below for process details.

6.4 Pay Item Request Form Instructions

The Pay item request form 600-000-02 is available at
http://www2.dot.state.fl.us/proceduraldocuments/forms/forms.asp
As noted above, the form is optional; the required information may be submitted via e-mail.

To complete the form, **the Originator completes the fields marked with an asterisks(*).** The Originator may be a Consultant Designer (for project specific needs), an FDOT Designer (for new products, processes, etc.) or any FDOT Employee (for implementing policy or procedures).

Fields without an asterisks (*), or unknown information, may be left blank. They will be completed by the BOE Coordinator and/or Responsible Office, as necessary.

Item Structure (Pay item number):

This number will be assigned by the Basis of Estimates Coordinator in the Central Office. Specification Section numbers will be selected with recommendations from the State Specifications Office. Refer also to Developmental Pay Items below.

Guidelines for new pay item structures 0123-456-789:

First three digits (123) match the Specification Section. See also Developmental Pay Items for special cases.

Digits 456-789 are right justified within the group.

Variables ABC-DEF may be used to define operation, size, shape, color, type, etc. when needed to separate items with significantly different cost. *Variables that can be defined in the plans or specifications DO NOT need separate pay items, if the cost is*

similar. Contact the Basis of Estimates Coordinator for assistance.

When Install, Relocate, or other non-furnish operations are defined, the remaining variables may be blank or zero. These should be clearly indicated with the structure.

Refer to Chapter 10 for details on the Pay Item Structure/Number. Specification Section numbers will be selected with recommendations from the State Specifications Office. Refer also to Developmental Pay Items below.

***Description:**

Describe the new pay item so that this "name" best relates to future users what this item is used for. The same name will be used for English & Metric lists; therefore, dimensions or unit specific names should be used at the structure level.

***Unit of measure:**

A maximum of two spaces used to abbreviate the method of measure for this item. (see Section 3 of the Basis of Estimates for acceptable units.) Include both English and Metric units.

***Requested Action:**

Check the type of action requested: New Item or Permanent Block. When this item is to be processed with other items, note the related item(s), i.e. Item No. ###-abc-def, or "MOT items for updated standards". An expanded pay item structure is considered a “new item”.

***Structure:**

The pay item structure ###-abc-def, should be used to define parameters which affect the price (i.e. size, shape, material), where items a through f are detailed as needed.

Additional parameters which do not affect the price may be detailed in the plans; DO NOT create additional pay item structures for these parameters. Limited structures can be used to encourage price competition between products that perform similar functions and/or provide similar end results. Use additional sheet(s) if necessary.

Refer to Chapter 10 for details on the pay item structure/number.

***Detail Information:**

Describe the item, application, recommended use, materials, etc. This information will be used to help identify the appropriate pay item, and cost estimate distribution. This information is used in the Basis of Estimates detail to assist designers in the selection and quantity calculations of an item.

Text may include "Use When…" , “Do not use when…”, "Estimate xx items per…", and/or "Item(s)… are recommended/required when this item is used."

The pay item detail information is not a substitute for specifications. In case of doubt, always refer to the applicable specification(s) for a complete description of the work to be completed, materials, measurement, and payment.

***Method of Measure, Accuracy:**

Unit of Measure & Accuracy used for payment. Consider payment accuracy of similar items, as shown in the Basis of Estimates. Note: Calculation/Documentation may require higher level of accuracy in the plans and/or computation book.

***Plan Quantity:**

Yes, if payment of item to be based on Plan Quantity, subject to specifications. No, if payment to be based on Field Measurement.

Ensure that this selection matches compensation information in the applicable specifications.

Documentation-

***Specification- Section, Article; Tech Specs?:**

For items with existing or related specifications (requests for items with new size, shape, or function), refer to the applicable Section number.

For project specific items without existing specifications (requests for items with limited use or project specific conditions), contact the District Specifications Office; a copy of the Technical Special Provision will be required with the pay item request form.

For new, general use items without existing specifications (requests for items based on changes to standards, specifications, and or policy), contact the State Specifications Office. The implementation of these items will be coordinated with all affected offices.

Specifications Submitted, Date:

List the name of the person originating the specification, and the date it was sent to the Specifications Office.

***Plans Prep Manual:**

Refer to Volume and Chapter for applicable information. If a revision is necessary, contact the State Roadway Design Office to propose revision(s).

***Standards Index No(s):**

Applicable *Roadway and Traffic Design Standards*, or *Structures Design Standards*, with index number(s). If a revision is necessary, contact the applicable office.

***CADD/COMP Form Number(s):**

Applicable form(s) for documentation of quantities. Refer to Section 1 of the Basis of Estimates for current forms.

***Plan Notes:**

If plan notes will be required, provide sample text of note. (Plan notes should not replace or duplicate specification text.) All plan notes should be coordinated with the PPM text.

Other:

If use of this item is included in other documentation (Drainage, Pavement Design, Traffic Signals, or other Manual/Handbook), note applicable volume, chapter, or edition. If revisions are necessary, coordinate changes with applicable office.

Responsible Office Approval, Date:

This is the Office and Contact Person listed in Chapter 5, generally within the Office of Design in Tallahassee. The Contact Person in the Responsible Office should refer to Chapter 10 for assistance in completing the blank fields on the form.

Cost Data-
Related Pay Item(s), Unit Price, Additional Cost, Availability:

For items similar in cost, provide related item numbers. (This information is used to assist in Preliminary Cost Estimates.) If no similar item exist, provide price and availability information. Unit price includes cost of material; additional cost to include installation, delivery, incidental materials, etc. Availability to include suppliers or manufacturers.

Estimator's Approval, Date:

State Estimates Office, Preliminary Estimates Section will review of the proposed price and/or related items.

Originator-
Name, Date, Office, Phone, District:

The originator may be a Consultant or FDOT employee, currently working on the project for which the item is requested. This person should be able to answer any additional questions regarding the use/application of this item. Complete information as requested.

District Estimates Office Approval:

For Items originating in the districts, the District Estimates Engineer should sign, indicating that the form contents have been completed and reviewed.

Central Office Approvals-
Design Coordinator, Specifications Coordinator, BOE Coordinator, TRNS*PORT Coordinator:

Each person responsible for approval should verify that requested action is necessary, meets existing/proposed standards, guidelines, handbooks, etc, and not in conflict with existing item(s).

Implementation-
Effective Letting Date, C-Team Issue #, Summary Details:

The implementation information will be completed in the Central Office, following all approvals. Actions which require coordination between offices will be addressed by the Coordination Team, with approved implementation plans detailed in the Basis of Estimates Summary of Changes. Minor actions, not requiring an implementation plan, will be implemented immediately.

Master File- Item Number, Financial Project Number, and Project Letting Date:

If a project number is known, the item(s) will be opened upon approval and implementation. If the project number is unknown, the structure will be established, but the

item will not be opened until requested.

6.5 Inactive Items

In an effort to remove unused pay items, those items not used within a 2 year period will be labeled as “inactive” and considered for temporary and/or permanent blocking.

Opening inactive items will require that the Designer follow the instructions for opening an item (i.e. submit an e-mail with the requested information, as described above. A copy of the Tech Spec may be required). The Central Office Estimates staff will request approval from the responsible office, prior to opening. Designers should allow up to an additional 2 working days for this approval.

If an inactive item remains unused for 3 years, the Estimates Office will recommend to the responsible office that the pay item structure be blocked. Once blocked, a pay item request form must be completed in accordance with Requesting new items, as described above.

6.6 Pay Item Reviews

When a major specification or standards change is made, the responsible office is requested to review the pay item structure to ensure that the affected items meet the needs of Design, Construction, Maintenance, and other industries. Historical use and item averages are available, but should not be the only consideration.

As recommended with new items, the pay item structure ###-abc-def, should be used to define parameters as needed. Some factors to consider when reviewing the pay item item structure:

a. What factors are most important to the Designer, Estimator, Supplier, Manufacturer, and/or Contractor? Can they be detailed in the plans? Are they included in the specification? Does it affect the price?

Note: Not all factors should be weighted equally. Sometimes the installation (labor) is more significant than the materials.

b. Are there standards/specifications for the item?

There may be 2 standard products and 8 “special” items. If the 2 standard items account for a significant percentage of applications, could the “special” items be combined under one “special” item?

Additional parameters which do not affect the price may be detailed in the plans; DO NOT create additional pay item structures for these parameters. Limited structures can be used to encourage price competition between products that perform similar functions and/or provide similar end results

6.6 Coordination Team

A team representing many Design & Construction Offices has been established to coordinate the review and implementation of various issues. By working together, the team

is able to ensure that pay items, specifications, and standards, as well as supporting handbooks and manuals, are available in a timely manner- with a coordinated implementation plan. Design Representatives include the persons from Roadway, Structures, Specifications, Standards, and Estimates. Construction and Maintenance are also represented. When necessary, representatives from other affected offices are requested to attend.

Issues may be submitted by any office or representative, but are normally the result of changes to pay items, specifications, and/or standards. Each office's representative is encouraged to keep the team informed of issues that may impact others. Representatives' names and contact information are listed in Chapter 5. When proposing major changes to the pay item structure, specifications or standards, please coordinate with the contact person(s) listed for the affected items.

Issues brought to the attention of the C-Team will be evaluated and processed on a "case-by case" basis. Issues with minimal impact on others are noted, with little or no further C-Team activity. Issues with extensive impact may be assigned to a committee for further investigation. The result of C-Team activity should be a recommended implementation plan, complete with a brief history and resulting changes. Implementation will be scheduled to coincide with Specification, BOE, Standard, and Manual updates, when possible.

The State Estimates Office compiles information resulting from C-Team recommendations for the Summary of Major Changes included with each edition/update to the Basis of Estimates. Managers of the affected offices approve issues included in the summary. Overall approvals, from the Directors of the Office of Design and Highway Operations, are also included.

6.7 Developmental Pay Items / Trial Pay Items

When an item is recommended for implementation while details are under review (specifications, standards, policy, etc.) a developmental pay item may be assigned. Developmental items are created for limited use, for a limited period of time, while the item is under review. A monitor will be assigned for each Developmental Item.

Developmental pay item numbers will be assigned as follows: (year)-(section)-(sequential use). The monitor's name will be included with the structure. Any problems or concerns with these items, from either Design or Construction, should be directed to the monitor, in writing.

Contact the monitor prior to using a Developmental Pay Item. If the monitor approves the item for use, the monitor will e-mail the central offices of Design, Specifications and Estimates approving the use of that trial pay item number with specifications dated mm/dd/yy for a specific project.

Upon completion of the specification, standard, and/or policy change(s), the monitor will

recommend that the item be opened for statewide implementation, the Coordination Team will recommend an implementation date, and a new pay item number will be assigned.

6.8 Related Documents

COMPUTATION BOOKS
The Computation Book(s) are to be prepared in accordance with the Department's directive/procedure No. 700-050-001**, Computation Methods for Design, Construction, and Final Estimates**, and accompanying handbook. Included in the procedure are instructions for documentation of Lump Sum items, Plan Quantity items, as well as final measure items. This information is available online at **www.dot.state.fl.us/construction** .

ALTERNATIVE CONTRACTING USER'S GUIDE
It is the intention of the Department to use various techniques on a wide range of project types in order to determine which techniques work best with each project type. The goal of this program is to reduce the cost and time overruns, and thereby reducing the impact of construction on motorists, businesses and homeowners within the transportation corridor.

Most of the alternative contracting practices involve financial incentives to expedite work. Methods include A+B Bidding, Lane Rental, Design-Build, Bonus, Liquidated Savings, and Lump Sum Projects. ***Note: For more detailed instructions, refer to the Department's Alternative Contracting User's Guide* on the Construction Office's web page at www.dot.state.fl.us/construction**

PLANS PREPARATION MANUAL
The Roadway Design office maintains the Plans Preparation Manual (PPM). The manual sets forth geometric and other design criteria, as well as procedure for FDOT projects. This document is now available online at www.dot.state.fl.us/rddesign

Chapter 6 Revision History

10-1-2008: Updated header dates for 2009 edition.
10-1-2008: Updated text to make the pay item request form optional. Complete information may be submitted by e-mail.

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BOE

Basis of Estimates

Chapter 7
Design Aids

State Specifications and Estimates Office
Estimating Systems Support Section

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Chapter 7
Plan Notes

7.1 General Information

Detailed plan notes and/or technical special provisions must be provided by the designer for all items not covered by existing specifications. *Plan notes are not acceptable as a substitute for Technical Special Provisions.* Plan notes are intended to work *with* the specifications, and are not intended to supersede the specifications. Plan notes must not:

Change the specifications
Conflict with the specifications
Duplicate the specifications

When existing specifications are not applicable, coordinate the specification revisions with the District Specifications Office. Every effort should be made to avoid conflicts, as plan notes are overridden by some specifications and take precedence over others. In either case, plan notes must *never* conflict with specifications. Details necessary for complete information include:

Description of item
Materials
Construction and installation
Method of measurement
Basis of payment.

***NOTE: Refer to the Plans Preparation Manual (Topic 625-00-006) for additional guidelines on using plan notes. It is located online at http://www.dot.state.fl.us/rddesign/default.htm* Contact the Roadway Design Office with any questions, comments, or corrections regarding these notes**.

Chapter 7 Revision History

10-1-2008: Updated header dates for 2009 edition.
5-28-08: Deleted notes; refer to PPM for current information for: Key Sheet Notes, Typical Section Notes, Summary of Quantities Sheet Notes, Plan and Profile Sheet Notes, Pay Item Footnotes, Drainage Map Notes, and Utility Adjustment Sheet Notes.

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BOE

Basis of Estimates

Chapter 8

Forms

State Specifications and Estimates Office
Estimating Systems Support Section

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Chapter 8
FORMS

CADD Forms/Sheets/Cells are maintained by the State Engineering/ CADD Office at http://www.dot.state.fl.us/ecso/default.htm

COMP Forms are maintained by the State Construction Office at http://www.dot.state.fl.us/construction/formsonl/Forms_on.htm

For information regarding these forms, please contact these offices directly.

8-1 Introduction

Support information for CADD/Comp forms is now located within Section 1 of the Construction Office's handbook **Computation Methods For Design, Construction & Final Estimates Handbook** located at: http://www.dot.state.fl.us/construction/manuals/finalest/newcompbook/Handbook_meun.htm on the internet. Please refer to this handbook for the latest information on both CADD and Comp book forms.

The forms referenced in this section were developed by the Department of Transportation to serve the needs of Design, Construction and Estimates personnel. In Design, they are used to record calculations and tabulations for plan quantity. Construction personnel must verify the original quantity or modify it to reflect what was constructed, and enter a tentative final pay quantity. Estimates personnel must check both the original or plan quantity, versus the final quantity, and substantiate what quantity is to be paid to the contractor in agreement with all specifications and Department policies.

It is MANDATORY that each pay item be documented. **When two or more forms are available, the Designer should select the best form (CADD or COMP) to document the pay item quantity, based on project conditions.** For example, a simple area of turf may be documented in a CADD summary box in the plans. A complex area of turf should be shown in the plans with detailed quantity calculations documented in the comp book. DO NOT use both forms, as this duplication of effort causes additional work for designers, reviewers, estimators, and others.

There are three groups of forms applicable for estimate purposes: Computation Book Forms, Plans Forms, and Miscellaneous Forms. Computation Book forms are maintained by the State Construction Office, Final Estimates Section. Plans forms are maintained by the Engineering CADD Systems Office, with input from affected Design Offices. The State Estimates Office, Engineering Support Section, maintains miscellaneous Forms. Web links to these forms are included with each group.

DISCLAIMER: The information contained within this Section is for information/reference purposes only. The intent is to provide a brief summary of the forms referenced by specific pay items. Current forms are available from the responsible office, as noted above. Any questions, comments, or other correspondence related to forms should be directed to the responsible office.

8.2 Computation Book Forms

The forms assembled in the Computation Book provide a simple and logical basis of documentation for the Summary of Pay Items Sheet in the contract plans. The calculations required for different forms, range from tabulations of "each items" or "lump sum items" to complex area or volume calculations. The designer should use the form recommended for each item calculated or tabulated, if practical.

Form Number	*Form Title*
700-050-01	Area Computations
700-050-02	Curb and/or Gutter Computation
700-050-03	Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computations
700-050-04	Volume Measure Items
700-050-05	Lump Sum Quantities
700-050-06	Weight Measure or Liquid Volume Computations
700-050-07	Concrete & Reinforcing Steel Computations
700-050-08	Piling Tabulation
700-050-09	Linear Measurement Computation with Components
700-050-10	Computation Book Pay Item Summary Sheet
700-050-11	Computation Book Pay Item Summary and Certification Sheet
	The following are Final Estimates Site Source Records
700-050-50	Off Duty Police Officer
700-050-51	Daily Log Sheet, Maintenance of Traffic
700-050-52	Daily Log Sheet (Striping)
700-050-54	Daily Report of Truck-Measured Material
700-050-55	Daily Log Sheet for Tracking Grassing Items
700-050-56	Daily Log Sheet for Miscellaneous Items
700-050-62	Contractor's Certified Invoice, Maintenance of Traffic Sheet

For questions or comments regarding these forms, please contact the State Construction Office, Final Estimates Section. Contact information is located in the introduction section of this handbook.

Forms are available in .pdf format from the Office of Forms and Procedures at http://www.dot.state.fl.us/proceduraldocuments/ Search by Number, Office (Construction) or Title. To retrieve forms from the FDOT CADD software, use the bar menu. Contact your CADD Manager for details and software updates.

8.3 Plans Forms (CADD-Generated)

Plans Forms are CADD-generated. They provide the designer with a simple and logical format for summarizing quantities by the type of item. These forms contain spaces for recording both original design quantities and final "as built" quantities.

Form Title *Refer to the CADD office web page for form/sheet names*
Pole Data Sheet (Sheets 1 and 2)
Tabulation of Quantities *
Summary of Pay Items
Summary of Drainage Structures
Summary of Guardrail
Summary of Ditch Pavement and Sodding
Summary of Fencing
Summary of Fencing Type B
Summary of Fencing Type A
Summary of Earthwork

Summary of Sodding
Summary of Side Drain and Mitered End Sections (Without Offset and Flow Line)
Summary of Sheeting
Summary of Turnouts
Summary of Underdrain
Summary of Gravity Wall and Aluminum Handrail
Summary of Flood Data
Cross Drain Optional Materials Tabulation (With Flow Line) (Sheets 1 & 2)
Optional Materials Tabulation (without Flow Line Changes) (Sheets 1 & 2)
Summary of Edgedrain
Summary of Sidedrain and Mitered End Sections (With Offset and Flow Line)

***** The Tabulation of Quantities format shall be used for the following:

1. Signalization Plans
2. Signing and Pavement Marking Plans
3. Lighting Plans
4. Landscaping Plans
5. Utility Joint Project Agreement Plans
6. Other items, as indicated in the Basis of Estimates Handbook.

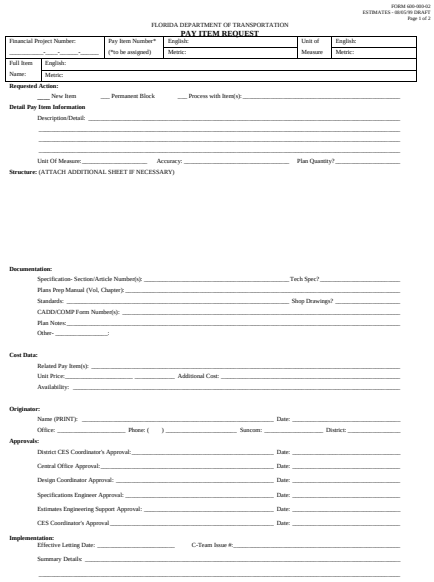
CONTACT INFORMATION

For questions or comments regarding these forms, please contact the Engineering CADD Systems Office. To retrieve CADD forms, visit the Engineering/CADD Systems Office web site at: http://www.dot.state.fl.us/ecso/default.htm

8.4 Quantity Manager & Computation Book (A Note from the CADD and Construction Offices)

When the Designer utilizes the Department's Quantity Manager Tool within MicroStation/GEOPAK, the data that is depicted on the Computation Sheets may not utilize the whole form. The data shown on the Computation Sheets may only fill a portion of the actual form, and not display the whole form with blank lines. This will be an acceptable format, as the data depicted on the Computation Sheets should be complete. The first page will continue to provide a signature block for plan quantity items, as well as the area of notes for over/under runs, and the extra notes below that. The remainder of the sheets will provide quantities for the individual sheets. By utilizing the Quantity Manager tool in GEOPAK, the Designer will eliminate potential errors in data transfer and transposition of numbers by being automated.

8.5 Estimates Forms



FORM 600-000-02
ESTIMATES – 08/05/08 DRAFT
Page 1 of 2

FLORIDA DEPARTMENT OF TRANSPORTATION

PAY ITEM REQUEST

Financial Project Number:	Pay Item Number*	English:	Unit of Measure	English:
_____-_____-_____-_____	(*to be assigned)	Metric:		Metric:
Full Item Name:	English:			
	Metric:			

Requested Action:

____ New Item ___ Permanent Block ___ Process with Item(s): _____

Detail Pay Item Information

Description/Detail: _____

_____

_____

_____

Unit Of Measure: _____ Accuracy: _____ Plan Quantity? _____

Structure: (ATTACH ADDITIONAL SHEET IF NECESSARY)

Documentation:

Specification- Section/Article Number(s): _____ Tech Spec? _____

Plans Prep Manual (Vol, Chapter): _____

Standards: _____ Shop Drawings? _____

CADD/COMP Form Number(s): _____

Plan Notes: _____

Other: _____;

Cost Data:

Related Pay Item(s): _____

Unit Price: _____ _____ Additional Cost: _____

Availability: _____

Originator:

Name (PRINT): _____ Date: _____

Office: _____ Phone: ( ) _____ Suncom: _____ District: _____

Approvals:

District CES Coordinator's Approval: _____ Date: _____

Central Office Approval: _____ Date: _____

Design Coordinator Approval: _____ Date: _____

Specifications Engineer Approval: _____ Date: _____

Estimates Engineering Support Approval: _____ Date: _____

CES Coordinator's Approval _____ Date: _____

Implementation:

Effective Letting Date: _____ C-Team Issue #: _____

Summary Details: _____

_____

PAY ITEM REQUEST
600-000-02

This form is used by designers and consultants when a project requires the use of a pay item that is not defined in the pay item structure. Refer to Chapter 6 for more details. Note: This form is optional; required information may be sent via e-mail, per Chapter 6.

Chapter 8 Revision History

10-6-2008: Updated header dates for 2009 edition.
10-6-2008: Updated pay item request form information, per Chapter 6. Use of the form is optional.
5-14-08: Inserted 8.4, note from Construction and CADD Offices. Requested by Sherry Valdes, State Construction Office & Kenny Rudd, District 3 CADD Office.

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BOE

Basis of Estimates

Chapter 9
*TRNS*PORT Designer Web Pages (Webgate)*

State Specifications and Estimates Office
Estimating Systems Support Section

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Chapter 9
Webgate: TRNS*PORT Designer Interface & Reports

Outline

9.1 General
- Intro to TRNS*PORT Suite
- Levels: Proposal, Project, Category, and Pay Item
- Training & Helpful Hints
- Security
  - Control Groups
  - Roles

9.2 Webgate
- Menu
- Designer Interface
- Reports
- Other Applications

9.3 Designer Interface
- Project Access and Verification
- Headers
  - Proposal Header
  - Project Header
  - Category Header
  - Bridge Category Header
  - Pay Item Header
- Leading Zeros
  - Designer Web Pages / Summary of Pay Items
  - Comp Book Forms
  - CADD Forms
  - Other Documents
- Alternates
- Participating / Non-Participating
- Pay Items, TRNS*PORT Category, and Component plans

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- Project Edit Report
- Master Pay Item List
- Proposal Summary of Pay Items (CADD)
- Project Summary of Pay Items
- Project Item List
- Pay Item Average Unit Cost
- Item Average Unit Cost
- Custom Reports

9.1 General

9.1.1 Intro to TRNS*PORT Suite

TRNS*PORT is a suite of programs owned by AASHTO (American Association of State Highway Transportation Officials). Many states around the country use this suite of programs for their transportation contracts. The TRNS*PORT programs used by FDOT include:

PES: Proposal Estimating System
CES: Cost Estimating System
LAS: Letting and Award System
SiteManager

9.1.2 Levels: Proposal, Project, Category, and Pay Item

TRNS*PORT data is organized into several levels. Starting at the lowest level, **pay items** are used to pay for a given item of work, as defined in the plans and/or specifications. Pay Items may include materials, equipment, and/or labor to complete the defined work. Multiple pay items may be included in a **category** of work. Categories include Structures, Roadway, Signing, Lighting, etc. For each category of work, a component set of plans is usually provided. A **project** may include one or more categories of work, within a defined geographic area. For example, a project may include a bridge (structure), resurfacing and drainage improvements (roadway), and related striping (signing and pavement markings). When ready for letting, one or more projects may be combined in a **proposal**. The proposal includes any additional components (letting, award, and execution information) necessary for the contract.

9.1.3 Training & Helpful Hints

Training is available from the State Specifications and Estimates Office, Engineering Systems Support section. Dates are scheduled at the District Offices, when requested. Please contact your District Estimates Office to request training.

Additional information and “Helpful Hints” handouts are available on the Estimates Office web pages at http://www.dot.state.fl.us/estimates/Training/training.htm

9.1.4 Security

Security within TRNS*PORT is managed by Control Groups (access to Projects & Proposals) and Roles (User functions).

Control Groups: Control Groups are used by TRNS*PORT to assign projects and/or proposals to selected users or groups. The typical designer (user) control group is CD??U525, where **CD** indicates that the project is for **C**onstruction (as opposed to Maintenance), originating in the **D**istrict. The question marks (??) are wildcard indicators for the district number. These wildcards may be replaced by a two digit number, when the user is restricted to a single district. Finally, the last 4 digits indicate the designer’s company. The District Estimates Engineer assigns projects to a company’s control group. A sample Project control group might be CD03U525. Note: by using the ?? for

district number in a user's control group, a designer (user) is permitted to see all projects, in all districts, which have been assigned to their company (project).

User Control Group: CD??A123

Project Control Group: CD##A123, where ## is the district number, and A123 is the company code, as defined in TRNS*PORT PES.

If you are unable to access a project, contact your District Estimates Office. In the early design phase, it is possible that the project has not been assigned to your company. In later design phases, it is possible that the project has changed control for estimating and/or letting purposes. The Project Manager and/or District Estimates Office will make arrangements to return control to designers if/when revisions are necessary. Addendums (revisions after advertisement) must be coordinated with the District Estimates Office.

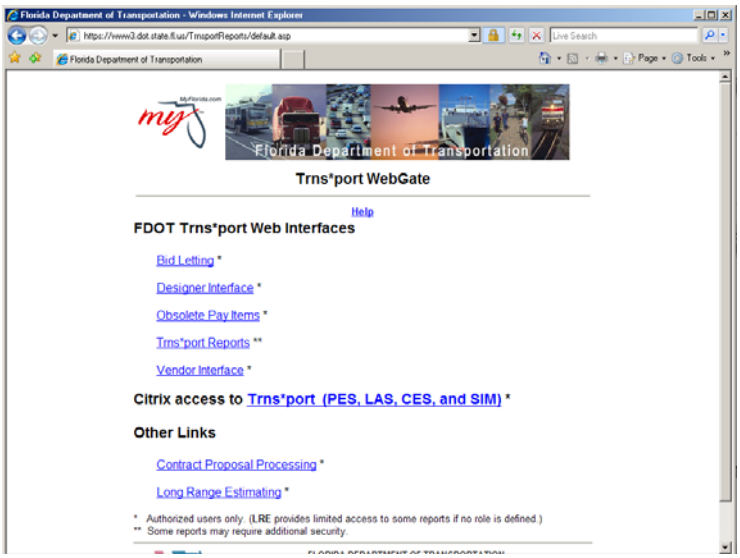
Roles: Most designers are given the role "Designer". This role allows the designer to access the Designer Interface, as well as to run selected reports. Non-Designers may be given the role "Public", to allow report access without the Designer Interface. Specialized roles are available to FDOT reviewers and estimators; contact the District Estimates Office for additional information.

9.2 Webgate

The Webgate is an internet page that serves as a doorway to the Designer Interface, Reports Menu, and other applications. It is accessed with the RACF userID and password.

9.2.1 Menu

The screen below shows the options available at the Webgate menu.



The Webgate (formerly known as the Designer Web pages) was developed by FDOT to assist the Designer with pay item needs. With the Webgate, the designer uses an internet connection (dial-up, DSL, cable, etc.) to access the web pages located at https://www3.dot.state.fl.us/TrnsportReports/default.asp
Additional Instructions and "Helpful Hints" handouts are located on the Estimates web pages at http://www.dot.state.fl.us/estimates/training/training.htm

9.2.2 Designer Interface: The Designer Interface is a tool used for loading project pay items into TRNS*PORT's Project Estimating System (PES) module.

Projects are initiated in the FDOT Financial Management (FM) System. The District Estimates staff creates a project in PES, and transfers FM information into the header. The District Estimates staff then sets the control group, based on the design firm assigned to work on the project. Additional details are provided below for using the Designer Interface.

9.2.3 Reports: The Reports menu allows users to select and produce reports based on current "live" information. Some of the reports are based on historical (awarded) projects, while other reports are based on future (proposed) projects. Additional details are provided below for using the Reports.

9.2.4 Other Applications: Additional applications, including LRE (Long Range Estimates System), are available from the Webgate menu. Note that additional "roles" may be required to fully utilize these applications. Contact your District Estimates Office for information and/or to request access to these applications. Access will be based on the applications needed to complete the FDOT work assigned to a user and/or their employer.

9.3 Designer Interface

9.3.1 Project Access and Verification: Once assigned to a project, the designer should verify:

a) that the project exists (or that proper control has been given)
b) that all project header information is correct

If proper control is not given, the project will not appear on the designer's list of available projects. The designer should contact the District Estimates Office to request control. See below for more information on Control Groups.

9.3.2 Headers: TRNS*PORT information is grouped at various levels:

Proposal
Project
Category (aka Design Group)
Pay Item

Each level includes information applicable to the levels above and/or below it.

9.3.2.1 Proposal Headers: The District Estimates Office creates the proposal prior to the letting. The proposal is used to “link” or “string” one or more projects, for letting purposes. All projects must be assigned a proposal number prior to advertisement.

Note: The State Estimates Office recommends that the proposal be created between 90-100% plans. Creating the proposal prior to 90% plans is possible, but causes PES issues when adding or deleting pay items- section and line numbers must be re-generated within PES, prior to producing a proposal summary. Currently, the designer must request that the District Estimates Office “Generate Section and Line Numbers.”

9.3.2.2 Project Headers: When first given access to the project, and at each design phase, the designer must verify the project header information. While much of this information is automatically transferred from FM to TRNS*PORT, the designer should check the letting date, spec year, and other information. Any errors should be immediately reported to the FDOT project manager for correction.

If project header information is incorrect, DO NOT attempt change it; this information is refreshed nightly from FM. It MUST BE CORRECTED IN FM. The designer should contact the FDOT project manager prior to making any changes. The project manager will coordinate FM changes with the responsible office(s) in the district. See below for more information on Project Headers.

9.3.2.3 Category Headers: From the project level of the Designer Web Pages, the designer can select, copy, and/or delete categories. At a minimum, **each component set of plans (structures, roadway, lighting, etc.) must have a corresponding category.** In accordance with the Plans Preparation Manual (PPM), it is possible to have minor/incidental work from another design group included on the roadway plans, yet still have a separate category for pay items. Unused categories should be deleted.

Items are categorized by pay item range:

Item Numbers **(Specification Sections)**	**SUBJECT/GROUP**			TRNS*PORT Category / Design Group/ Plans
100-102	MOT			0200 Roadway
103	Temporary Structures			
104	Erosion Control	Drainage		
		Environmental		
106-108	Environmental	Coordinator		
		Water/Erosion Control		
		Air Quality		
		Decontamination/Hazardous Materials		
109	Field Office			
110-199	"Dirt" Earthwork	Roadway		
		Erosion Control		
		Topsoil/Vegetation		
200-299	Base Courses			
300-399	Surface Courses, Concrete Pavement			
except 346-347	Concrete			0100 Structures or 0200 Roadway
400-499	Structures			0100 Structures
except 425-449	Drainage Structures			0200 Roadway
500-515	Incidental Construction- Structures			0100 Structures
516-559	Incidental Construction- Roadway Items			0200 Roadway
560-569	Incidental Construction- Structural Paint			0100 Structures
570-599	Incidental Construction- Turf & Landscaping			0200 Roadway or 0600 Landscaping
600-699	Traffic Control Devices (Signals)			0500 Signals
700-714	Traffic Control			0300 Signing
715	Traffic Control- Lighting			0400 Lighting
720-740	Incidental Construction- Other			0200 Roadway
741-749	Incidental Construction- Traffic Monitoring (TMS)			
750-770	Incidental Construction- Other			
780-789	Intelligent Transportation Systems (ITS)			0550 ITS
800-899	Mass Transit (Railroad)			0900 Mass Transit
1000-1999	Utilities			0100 Structures

NOTE: While pay item ranges are generally grouped by category, some items may be used in multiple categories. Refer to the specific items for details.

9.3.2.4 Bridge Category Header: The bridge header requires information specific to each structure. **Each bridge must be loaded into a separate category**, with details specific to that bridge. With each bridge category, the Designer Interface

requires that the bridge category header information, specifically the bridge ID, be entered prior to loading/editing pay items. The following fields must be completed:

Alternate Code: leave blank unless using alternate structures. Contact your District Estimates Office for assistance when considering alternate structures.

Bridge Length (feet): Enter the total bridge length, not including approach slabs.

Bridge Width (feet): Enter the total bridge deck width, from outside to outside of traffic railing. For bridges with variable width, divide the total bridge deck area, outside to outside, by the length to obtain the average width.

Number of Spans: Enter the correct number

Bridge Type: Select the appropriate type.

Note: As of April 2005, the list of bridge types and the corresponding definitions are under review. Contact your District Estimates Engineer if assistance is needed. An updated list will be included with the October 2005 update.

Bridge ID: Enter the valid bridge number. For bridge replacements, use the new bridge ID (replacement) number, not the old number.

Note that the Structures Detailing Manual (also referenced by the PPM) recommends that the bridge ID be obtained in the early design phase. By phase 2 and phase 3 submittals, as defined in the PPM, this information must be known in order to correctly complete the TRNS*PORT pay item information.

Begin/End Termini: Not used.

Superstructure Type: Select the appropriate type; for box culverts, select “none”.

Substructure Type: Select the appropriate type; for box culverts, select “none”.

Foundation Type: Select the appropriate type; for box culverts, select “none”.

Structure Location: Select the appropriate type.

Structure Work Type: Select the appropriate type; for pedestrian overpass, select “Miscellaneous”.

9.3.2.5 Pay Item Header: Pay Item header information (description, unit of measure, etc.) is maintained by the State Estimates Office, Engineering Systems Support section. Any errors in the pay item header should immediately be brought to the attention of the State Estimates Office.

If the pay item description does meet the project needs, refer to Chapter 6 for Requesting a New Pay Item. Additional items can be created within 24 hours, pending approval of the specifications. See below for additional information regarding pay items.

9.3.3 Leading Zeros: Leading zeros for pay items are optional, except as required by the TRNS*PORT system.

Designer Web Pages / Summary of Pay Items: When entering English items 50- through 999 into the TRNS*PORT system, a leading zero must be added before the first group of digits, i.e. 102- 1 becomes 0102- 1. (A leading zero replaces the leading space **only** in the first group of digits.) Metric items and English Utility items are unaffected, as they already have four numbers in the first group of digits.

Comp Book Forms: Automated comp book forms use pay items generated by the TRNS*PORT system, and therefore will include the leading zero. (The

automated comp book forms may also be used by TRNS*PORT's Site Manager module. The leading zero must be retained on these forms.)

CADD Forms: CADD forms, including tabulation sheets in the plans, will be accepted with or without the leading zero.

Other Documents: The plans, specifications, standards, and other documents, including the BOE, will continue to refer to the item numbers without the leading zero.

9.3.4 Alternates: Pay Item Alternates use a 3 character code to describe the Category, alternate group, and item(s) within the group. Using structures alternates as an example, category letter would be A. The first alternate group would be A, and the items for the alternates would start with 1. For bid items, with the above example, the alternate code might be:

AA1 Item 0450-999- 1
AA1 Item 0450-999- 2
AA1 Item 0450-999- 3
AA2 Item 0450-999- 4
AA2 Item 0450-999- 5

In the above example, the contractor would be required to bid either the AA1 or AA2 group, that is, AA1 group items 0450-999- 1, 0450-999- 2, and 0450-999- 3 OR AA2 group items 0450-999- 4 and 0450-999- 5.

If there is a need to consider alternate categories (rather than just alternate items), contact your District Estimates Office for assistance.

9.3.5 Participating/Non-Participating Field: The column labeled "Non-Part" within the designer interface screens and reports is an indicator or "flag" for those items not participating in the major funding group, as defined in PES. **Designers are no longer able to change this field.** Please consult with your District Estimates Engineer if unusual funding is anticipated.

9.3.6 Pay Items, TRNS*PORT Category, and Component Plans: Pay items within a category must correspond to the work shown in the component plans. For example, the signals items shown in the signals category/summary of pay items must correspond to the work shown in the signals plans.

Category totals are used for reporting purposes. Ensure that all work shown in a category uses the appropriate items for that category. Additional reminders are as follows:

For landscaping- all work must be detailed in the plans.

For structures- each bridge must be entered separately. All work associated with each structure must be entered accordingly.

For ITS- only projects identified by the State ITS office, with ITS funding, are to be entered with ITS pay items. (Signals projects without ITS funding should use signals items with signals plans, even for computerized or future ITS installations.)

For Signals- use signals pay items.

For lighting- use lighting pay items.

Note: Some items are valid in multiple categories; they include directional drilling, jack & bore. Some items are separated by category and specification; they include conduit (separate items for lighting, signals, ITS, and utilities), fiber optic, pull & junction boxes, electrical work, and foundations. Select the pay item appropriate for the category and work to be completed. Refer to the specifications for materials and installation requirements.

9.4 Reports

9.4.1 General: Many of the reports are available to any user with access to the Reports Menu. The reports listed below are generally used by the Designer, with the "Designer" role. Users with a "Public" role may not have access to all of the reports listed below.

The following definitions are important in TRNS*PORT.

Project: A single project, with appropriate Financial Project number, header information, funding, items, etc.

Proposal: One or more projects combined for the purpose of creating a contract for letting. Projects are "strung" only when combined to form a proposal. The District Estimates Office, according to district practices, will create proposals.

9.4.2 Project Edit Report: The **Project Edit Report is the single most important report.** It should be run at the project level after updating any items or quantities, after an update bulletin, or after a project has been idle or "shelved" for a period of time. In addition to listing the current items and quantities, this report will provide an item check based on the proposed letting date.

9.4.3 Master Pay Item List: The Master Pay Item List is a list of items currently available in the TRNS*PORT PES module. It also includes valid (effective/obsolete) dates, a Tech Spec flag, and a Reference Price from LRE. Additional items are opened upon request; refer to Chapter 6 for additional information.

Note: The Reference Price is for general information only. It is based on a weighted average, with extreme high/low values removed. It should NOT be used for project estimates, without consideration of other project conditions.

9.4.4 Proposal Summary of Pay Items (CADD): After the District Estimates Office has created a proposal, the Designer will be able to select a Proposal Summary of Quantities from the Reports menu. After entering the proposal number, a report (.txt format) will be sent to the CADD ftp site. The designer can download and import the file according to established CADD procedures.

For early phase reviews (up to 90%, or until the proposal has been created), the Project Summary of Quantities Report must be used. (No proposal, no proposal report.) If multiple projects are anticipated to be let together, the Designer should be sure to print each project's Summary of Quantities for review. These reports may be printed on standard 8.5" by 11" paper.

For later phase reviews (90%, or after the proposal has been created), the Proposal Summary of Quantities Report should be used. After the Designer submits the

report from the interface menu, the output will be sent to the CADD ftp site in 5-10 minutes.

9.4.5 Project Summary of Pay Items: This report will print in .pdf format for a specified project. This report will be used for early phase reviews. Note: If a proposal has already been created, the proposal number will be included in the report header.

9.4.6 Project Item List: This report will list the items and quantities for a given project number.

9.4.7 Pay Item Average Unit Cost: This report will provide historical project information for specific pay items. Note: The pay items must be entered individually, rather than as a group. This report is helpful when detailed project information is needed for a specific pay item.

9.4.8 Item Average Unit Cost: This report provides a historical average for a pay item range, over a specified date range. This report is helpful when general price information is needed for selected pay item(s).

9.4.9 Custom Reports: The State Estimates Office has the ability to create and/or run custom reports for user specified criteria. Please contact your District Estimates Office if custom reports are needed.

Note: Pricing for individual projects does not require a custom report. Pricing (Authorization and Official Estimate) before the letting is completed by the District Estimates Office using the TRNS*PORT CES module. Design estimates should be project specific- based on specifications, location, market area, materials, quantity, equipment, labor, and other related factors.

Chapter 9 Revision History

10-1-2008: Updated header dates for 2009 edition.
10-1-2008: Updated 9.3.6 Pay Items, TRNS*PORT Category, and Component Plans to include examples of items/category usage.

BOE

Basis of Estimates

Chapter 10
Formatting Pay Items

State Specifications and Estimates Office
Estimating Systems Support Section

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Chapter 10
Formatting Pay Items

10.1 General

The purpose of this Chapter is to assist those responsible with maintaining the pay item structure and associated documentation. It will also assist users with understanding how/why pay items are formatted.

Much of the information in this Chapter begins as a Pay Item Request. Refer to Chapter 6 for information on completing the pay item request form.

This chapter should be considered a guide for pay items. It is not a restriction on how they may/may not be used. Each pay item should be evaluated based on the many needs of our customers: Design, Estimates, Construction, Contracts, and Management. Note that the needs of one group may be considerably different than those of another. Communication between these groups, whenever a pay item is evaluated, is essential.

10.2 Format / Legend

The pay item information shown in the online BOE is formatted as follows:

Pay Item Number	**PAY ITEM DESCRIPTION**			
	Unit		**Accuracy**	**Plan Quantity?**
Notes	**Important Notes or Dates**			
Details	Details			
Related Items	**Required**		**Recommended**	
Forms	**Design**			
	Construction			
Documentation	**Design**			
	Construction			
References	**PPM Chapter**			
	Standards			
	Specifications			
	P&DM Chapter(s)			
Status	**Tech Spec Recommended**			
Structure	**Item Description**	**Unit**		
	English Structure			
	English Structure Notes			
Structure Notes				

Pay Item Number: Each 10 digit Pay Item is structured into three parts: 1234-567-890. Spaces and/or digits may be used to detail an item.

Within the first group (first 4 digits), the leading digit indicates the unit system: 0 -English, 1 -English Utilities, 2 -Metric, 3 -Metric Utilities, 9 -Special. The remaining digits (second through fourth digits), identify the applicable Specification Section.

The remaining groups (fifth through tenth spaces/digits), are descriptive fields, as detailed for each item. These variables are described in the pay item structure below.

Pay Item Description: The Description. This description may be abbreviated on some reports, due to space constraints. The Complete (Long Description) is used whenever possible.

Unit: Unit of measure, as defined in Chapter 2. When secondary units are shown, they are intended for estimating purposes, and should be documented in the Comp Book or plans as instructed.

Accuracy: The degree of accuracy of decimal rounding for the total quantity of the item. Intermediate computations should be made to at least the next higher decimal.

Important Notes or Dates: Many pay items are blocked or opened with an effective letting date. Verify that the applicable dates correspond a project's scheduled letting date. TRNS*PORT PES will verify dates for selected pay items.

Important dates are normally shown in this field for 1 year after implementation of the change.

Detail: Description of the most common usage of the pay item, intended to assist designers with the selection of pay items. Also includes, when necessary, detailed information useful to the designer for calculating quantities and determining related pay items. Text may include "Use When…" , "Do not use when…", "Estimate xx items per…", and/or "Item(s)… are recommended/required when this item is used."

See errors & omissions below for an explanation of missing detail information.

Related Items, Recommended: Lists item numbers that are recommended, or should be considered, when using this pay item.

Related Items, Required: Lists item numbers that, under normal circumstances, are required when using this pay item.

Original, Design: Available Methods for documentation of design quantities in the plans and/or computation book, with appropriate form numbers noted.

When both a CADD and COMP book form are listed, the designer should select the appropriate form based on the item and form contents. Some forms have additional fields to detail complex lines, grades, areas, and/or other features. **Do NOT use both a CADD and COMP book form for the same item.**

Final, Construction: Required methods for detailed back-up calculations and documentation of final pay quantities, with appropriate form numbers noted.

Plan Quantity?: Indicator (Yes or No) that this item is (or is not) designated to be paid under the Plan Quantity concept, per Article 9-1.3.2 of the Specifications. Refer to specifications for measurement and payment details.

References, PPM Chapter, SDGs, Other: *This field is currently under development.* Links are provided to applicable Plans Preparation Manual Chapter(s), Structures Design Guidelines, or other design references.

FEPDM: Final Estimates Preparation and Documentation Manual reference chapter number(s), when applicable.

Standards: Indicates the index sheet number(s) for the applicable Design Standards. When listed, the pay item must be used in accordance with the referenced standard. Contact the BOE Coordinator and/or Responsible Office for non-standard applications. Non-standard applications may be required to use a different pay item number.

Specifications: *This field is currently under development*. Links are provided to current Standard Specifications (Specifications Book) and/or current workbook. These links are for reference purposes only; the designer is responsible for using applicable specifications, as available from the State Specifications Office. Contact your District Specifications Office for further assistance.

Status: Indicates the status of the Item Structure. Refer to Chapter 6 for assistance with items that are not currently open in the Master File.

Plan Detail and/or Tech Spec recommended: Coordinate with your District Specifications Office. If blank, a Tech Spec is not normally necessary.

NOTE: If the current specifications do not appropriately cover the work necessary for a given project, a plan detail and/or Tech Spec may be necessary. Standard Specifications DO NOT normally cover “custom”, “modify”, “special”, or “relocate”, as these are project specific situations. Plan Details and/or Tech Specs will be required. Remember- complete specifications for each pay item include a description of the work, materials and/or equipment required, construction or performance requirements, method of measurement, and basis of payment.

Structure: Item Description Unit

English Structure
English Structure Notes

The pay item structure ###-abc-def, should be used to define parameters which affect the price (i.e. size, shape, material), where variables a through f are detailed as needed.

Common Operations- refer to individual items as needed:

1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust & Modify)
6 (Remove & Dispose)
7 (Remove & Stockpile)
8 (Plug & Place out of service)
9 other item specific operation, as needed

Parameters which do not affect the price may be detailed in the plans; DO NOT create additional pay item structures for these parameters. Limited structures can be used to encourage price competition between products that perform similar functions and/or provide similar end results (i.e., more items, less history per item).

For most reports, including the Master Pay Item List and Pay Item Summary, descriptive information, such as size, shape, and color, will be bracketed and included after the primary description. The title and/or description may be abbreviated on various reports, as necessary.

Although the BOE listing shows all valid combinations of pay items, not all of the pay items are currently open for use. Refer to the Master Pay Item List for currently open items. For additional information on opening or requesting new pay items, refer to Chapter 6.

Note that the metric pay item structure is maintained in the BOE Database, but not currently published in the online BOE.

Additional Notes: Additional notes, as provided by the responsible office or C-Team, may be included in the Notes or Detail fields.

10.3 Pay Item Ranges

Ranges are established to combine items/sizes with similar installed costs. When a pay item range is used, the designer must specify the specific size/shape needed on the plans and/or tabulation sheet(s). Ranges are not intended as a “contractor’s option”.

10.4 Where to Find It

As noted above, the first 3 digits of the pay item corresponds to the applicable specification section. The following table is helpful for finding the pay item group. Note that it does not include all possible section numbers; it is only a guide help identify "Where to find it…"

Pay Item Group/ Specification Section	**Description, including key words for searches**
101	Mobilization
102	Maintenance of Traffic
104	Erosion Control
110	Clearing and Grubbing
120-175	Excavation, Embankment, and other Earthwork
200s	Base Courses
300-341	Bituminous Mixtures, Milling, Superpave, Friction Courses
346-347	Portland Cement Concrete
350-353	Concrete Pavement
400	Concrete Structures
415	Reinforcing Steel
425-449	Drainage: Inlets, Manholes, Junction Boxes, Pipe, Trench Drain, Underdrain, French Drain, Edgedrain
450	Precast, Prestressed Concrete
455	Structures Foundations: Piling, Drilled Shafts
470	Timber Structures
508-510	Movable Bridges: Navigation Lights, Machinery
520s	Concrete Gutter, Curb, Barriers, Traffic Separator, Sidewalk
523	Patterned/Textured Pavement
530	Riprap
534	Sound Barriers
536-538	Guardrail
550	Fencing
555-557	Directional Bore, Vibratory Plowing, Jack & Bore
570-580	Grassing, Seeding, Sodding, Landscaping, Trees, Plants
600s	Signalization: Conduit, Mast Arms, Detectors, Cabinets
700-705	Signing, Delineators
710-714	Pavement Markings: Paint, Thermo
715	Lighting: Poles, Conduit,
780s	Intelligent Traffic Systems (ITS)
800s	Mass Transit
900s	Special, Developmental, Trial Items

10.5 Errors, Omissions, Comments

The Engineering Support Section of the State Estimates Office maintains the Basis of Estimates, Pay Item Structure, as well as the Master Pay Item List(s). Details, notes, and documentation information is based on information provided with the pay item request. When a detail is missing or incomplete, you may contact the responsible coordinator (listed in Chapter 5), or submit a recommendation via e-mail. Links are provided within the BOE pages on the Estimates web pages at www.dot.state.fl.us/estimates .
While we make every effort to provide the most current information, pay items and related FDOT handbooks/manuals are continuously developing.

If an error is found with any of the BOE content, please notify the State Estimates Office- Engineering Support Section.

We appreciate your comments and suggestions.

Chapter 10 Revision History

10-1-2008: Updated header dates for 2009 edition.

BOE

Basis of Estimates

Chapter 11

Items 000 to 199

State Specifications and Estimates Office
Estimating Systems Support Section

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50- A- **DESIGN / BUILD**

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details This item to be used for Districts letting Design-Build projects. This item to be used only when identified by the District as a "Design-Build" project. Include Initial Contingency Amount under 999- 25 (2999- 25) item.

Related Items **Required** 999- 25 (2999- 25) **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Contractor is responsible for design. The computation book, if required, will show lump sum tasks (lump sum constructed project pay items), as listed in the proposal.

Construction Any adjusted final quantities for the lump sum payment will require appropriate documentation and Supplemental Agreements. The "as-built" final plans must show any additions/deletions that occurred on the project.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 11

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **50- A-** **DESIGN / BUILD** **LS/LS**

A= Operation
1 (Resurfacing)
2 (Roadway Construction)
3 (Roadway Reconstruction)
4 (Bridge Construction)
5 (Buildings)
6 (Traffic Operations)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

101- 1- **MOBILIZATION**

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details Consists of work and operations necessary to begin work on a project. Includes moving in equipment and personnel, establishing temporary offices, safety equipment and sanitary facilities. May include surveying, bond and insurance expenses. In some cases, may consist of security services and/or expenses associated with night work.
For contracts with more than one project, the pay item for Mobilization will be shown on each project's Summary of Pay Items. An exception to this is when the contract contains a Joint Project Agreement (JPA): the Mobilization will not be shown on the Summary of Pay Items for the JPA; the cost of Mobilization will be included in the prime project.

Related Items **Required** **Recommended**

Forms	**Design**	SHTabQuantLS	COMP 700-050-05
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **101- 1-** **MOBILIZATION** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

102- 1- MAINTENANCE OF TRAFFIC

Unit LS/DA **Accuracy** Lump Sum (Day) **PlanQuantity?** yes

Notes

Details

Includes all items required to safely maintain traffic throughout a transportation work zone with minimal inconvenience to the public and fit into one of the following categories:
1) cannot reasonably be quantified;
2) cannot be addressed under current pay items;
3) are incidental to the operations necessary to safely maintain traffic throughout a work zone.
Code the second unit of measure (number of days) from the construction day estimate.

For contracts with more than one project, the pay item for Maintenance of Traffic will be shown on each project's Summary of Pay Items. An exception to this is when the contract contains a Joint Project Agreement (JPA): the Maintenance of Traffic will not be shown on the Summary of Pay Items for the JPA; the cost of Maintenance of Traffic will be included in the prime project.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuantLS	COMP 700-050-05
	Construction	Refer to Comp Book	
Documentation	**Design**	Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 600	
	Specifications		

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 1-** **MAINTENANCE OF TRAFFIC** **LS/DA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

102- 2- AA SPECIAL DETOUR

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details Consists of work and materials necessary to construct a diversion (Temp Roadway). May also include temporary bridge (Acrow panel, or similar.) The quantities for major items necessary for the Special Detour shall be shown in the plans but paid for under Special Detour. Items that will be used in the Special Detour that will remain as part of the final product will be paid for under the appropriate pay item (i.e., earthwork). Show the limits of each Special Detour in the plans. Traffic control devices, warning devices, barriers, signing and pavement markings will be paid for separately.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 2- AA** **SPECIAL DETOUR** **LS/LS**

AA = Detour Number
1 (First Detour Of Several)
2 (Second Detour Of Several)
3 (Third Detour Of Several)
4 (Fourth Detour Of Several)
N (Nth Detour Of Several)
N = 1 Thru 56

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 2 21	SPECIAL DETOUR 21	LS		1/1/2007		$50,000.00
0102 2 22	SPECIAL DETOUR 22	LS		1/1/2007		$50,000.00
0102 2 23	SPECIAL DETOUR 23	LS		1/1/2007		$50,000.00
0102 2 24	SPECIAL DETOUR 24	LS		1/1/2007		$50,000.00
0102 2 25	SPECIAL DETOUR 25	LS		1/1/2007		$50,000.00
0102 2 26	SPECIAL DETOUR 26	LS		1/1/2007		$50,000.00
0102 2 27	SPECIAL DETOUR 27	LS		1/1/2007		$50,000.00
0102 2 28	SPECIAL DETOUR 28	LS		1/1/2007		$50,000.00
0102 2 29	SPECIAL DETOUR 29	LS		1/1/2007		$50,000.00
0102 2 30	SPECIAL DETOUR 30	LS		1/1/2007		$50,000.00

102- 3- COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details

Consists of furnishing and placing suitable material which may be necessary for providing safe access to businesses and residences affected by the construction. If authorized, portions of this material may be salvaged and reused at other driveways along the length of the project. Use 250 cubic yards per mile (200 cubic meters per kilometer) on rural projects and 500 cubic yards per mile (400 cubic meters per kilometer) on urban projects. Use 250 cubic yards (200 cubic meters) as a minimum. The final quantity shall be determined by truck measurement, loose volume.

For final quantity, measure the width, height, and length inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% of the result to account for the hoist box and bed fillets.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 3-** **COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 3	COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE	CY		1/1/2007		$25.11

102- 11- SERVICE PATROL

Unit MH **Accuracy** Hour **PlanQuantity?** no

Notes

Details

Used when it is determined during design that an active service patrol will be needed to keep traffic flowing. The Traffic Control Plan (TCP) or Technical Special Provisions should explain when and where the service patrol will be needed, as well as what type of services will be provided, and what type of service vehicle will be needed. Time shall be based on an 8 hour day.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction All field records are required for this item. Final payment is based on field book/records.

References **PPM Chapter**

Other

Standards Index No. 600

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 11-** **SERVICE PATROL** **MH**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 11	SERVICE PATROL	MH	D	1/1/2007		$46.80

102- 14- TRAFFIC CONTROL OFFICER

Unit MH **Accuracy** Hour **PlanQuantity?** no

Notes **Refer to 999-102 for Speed/Law Enforcement**

Details ***** LIMITED USE ; read details below *****

Provide uniformed traffic control officers, including marked law enforcement vehicles, to assist in controlling and directing traffic in the work zone ONLY when the following types of work is necessary on projects:

*traffic control in a signalized intersection when signals are not in use,
*when standard index no. 619 (moving operations) are used on Interstate at nighttime and required by the plans,
*when pacing/rolling blockade specification is used (Tech Spec Recommended).
The Department will include pay item 102- 14 for officers directing traffic as defined above.
For Speed and Law Enforcement officers, see pay item 999-102

Related Items **Required** **Recommended** 999-102-xxa

Forms **Design** SHTabQuant COMP 700-050-03

Construction 700-050-50

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction All field records are required for this item. Final payment is based on field book/records.

References **PPM Chapter**

Other

Standards Index No. 619

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 14-** **TRAFFIC CONTROL OFFICER** **MH**

Notes Refer to 999-102 for Speed/Law Enforcement

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 14	TRAFFIC CONTROL OFFICER	MH	T	1/1/2007		$48.48

102- 60- WORK ZONE SIGN

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details Used for the purpose of informing motorists of the work zone and work zone related (i.e. temporary regulatory or temporary route) conditions that will be encountered. Tabulate the number of individual sign panels (20 square feet or less)/(1.9 square meters or less) as recorded per day for each phase of the project. When multiple signs are located together on a single or multiple posts, each sign panel will be paid for individually.

Non-standard sign panels, including Project Information Signs, (greater than 20 square feet)/(greater than 1.9 square meters) will be detailed in the plans and paid for under Maintenance of Traffic, Lump sum.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards Index No. 600
Specifications
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 60-** **WORK ZONE SIGN** **ED**

Notes Signs LESS THAN 20 sf only- see details above

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 60	WORK ZONE SIGN	ED		1/1/2007		$0.31

102- 61- BUSINESS SIGN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Used for the purpose of assisting the motorists find the appropriate business driveway entrance while the roadway is under construction. The quantity is based on one business sign for each business whose driveway entrance could be affected. When several businesses share a common driveway, one sign per common driveway should be estimated.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards Index No. 600
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 61-** **BUSINESS SIGN** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 61	BUSINESS SIGN	EA		1/1/2007		$35.63

102- 71- AB TEMPORARY BARRIER WALL

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details

Included for the protection of the traveling public and workers. May be moved from one location to another on the project. Estimate length of wall needed for each phase, and then choose the maximum length anticipated for any one phase to be paid for as Temporary Barrier. Phasing in plans must indicate adequate quantity of barrier prior to calling for relocating of barrier. Add the estimated lengths for the remaining phases together and pay for under Barrier Wall (Temporary) Relocate. When this item is used, include lights or glare screen.

For example:
200 LF needed for phase 1 = 200 LF F&I
300 LF needed for phase 2 = 100 LF left in place from phase 1 (no movement; no payment) +100 LF Relocated from phase 1 +100 LF F&I
150 LF needed for phase 3 = 150 LF relocated from phase 2 (remaining quantity stockpiled; no payment)
400 LF needed for phase 4 = 300 LF relocated from earlier phase(s) or stockpile + 100 LF F&I
200 LF needed for phase 5 using phase 4 wall in existing location = 0 LF relocated (remaining quantity stockpiled, if needed for later use)
Note: No separate payment for "removal" or "stockpiling"

Maximum quantity F&I for above example: 400 LF
Relocate paid when moved to a new phase, NOT when removing or stockpiling.

QPL- Temporary barrier wall shall conform to the requirements of the pre-approved alternatives listed on the Department's Qualified Products List (QPL), unless otherwise called for in the plans.

NOTE: For bridge applications, ONLY Type K permitted.

Related Items **Required** 102- 79 or 102- 94-xab **Recommended** 102- 81- 1, and/or 102- 89- xxa

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards see detail
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 71- AB** **TEMPORARY BARRIER WALL** **LF**

A = Operation
1 (Furnish & Install)

2 (Relocate)

B = Material
1 (Concrete)
2 (Water filled)
3 (Low Profile Concrete)
4 (Type K) bridge applications

Notes Effective 1/04 letting: B= 3, 4

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 71 11	BARRIER WALL, TEMPORARY, F&I, CONCRETE	LF		1/1/2007		$20.49
0102 71 12	BARRIER WALL, TEMPORARY, F&I, WATERFILLED	LF		1/1/2007		$33.00
0102 71 13	BARRIER WALL, TEMPORARY, F&I, LOW PROFILE, CONCRETE	LF		1/1/2007		$37.34
0102 71 14	BARRIER WALL, TEMPORARY, F&I, TYPE K	LF		1/1/2007		$39.94
0102 71 21	BARRIER WALL, TEMPORARY, RELOCATE, CONCRETE	LF		1/1/2007		$5.37
0102 71 22	BARRIER WALL, TEMPORARY, RELOCATE, WATERFILLED	LF		1/1/2007		$10.67
0102 71 23	BARRIER WALL, TEMPORARY, RELOCATE, LOW PROFILE, CONCRETE	LF		1/1/2007		$10.85
0102 71 24	BARRIER WALL, TEMPORARY, RELOCATE, TYPE K	LF		1/1/2007		$11.48

102- 73- TEMPORARY GUARDRAIL

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details For Temporary applications, use in accordance with Index 400. Payment includes installation, maintenance, and removal of guardrail.

For permanent applications, refer to 536 items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 400

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 73-** **TEMPORARY GUARDRAIL** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 73	TEMPORARY GUARDRAIL	LF		1/1/2007		$8.06

102- 74- A TEMPORARY BARRICADE

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details Included for the protection of workers and the public from hazards within the traffic control zone. The designer is not to add plan notes specifying one type of barricade (Type I, II, DI, VP, or Drum). Note: DI = Direction Indicator Barricade, which is shown on Index 600. Estimate for each Traffic Control Plan phase based on the type of operation and duration anticipated as follows: Quantity= (Length of Setup / Barricade Spacing) X Phase Duration.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 600

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 74- A** **TEMPORARY BARRICADE** **ED**

A = Type
1 (Types I, II, DI, VP & Drum)
2 (Type III- 6')

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 74 1	BARRICADE, TEMPORARY, TYPES I, II, DI, VP & DRUM	ED		1/1/2007		$0.18
0102 74 2	BARRICADE, TEMPORARY, TYPE III, 6'	ED		1/1/2007		$0.38

102- 76- ADVANCE WARNING ARROW PANEL

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details Included for the purpose of providing advanced warning of a lane closure. (Not intended for lane shifts.) Estimate the number needed for each Traffic Control Plan phase times the phase duration.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 600

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 76-** **ADVANCE WARNING ARROW PANEL** **ED**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 76	ADVANCE WARNING ARROW PANEL	ED		1/1/2007		$8.09

102- 77- HIGH INTENSITY FLASHING LIGHT, TEMPORARY, TYPE B

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details Included as a safety device, to draw attention to the warning sign. The lights shall be mounted on the first advanced warning sign where only one sign is used, and on the first and second advanced warning signs where two or more signs are used. This applies to all approaches to any work zone. When this item is used, item 102- 60 (2102- 60) must be used.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 600

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 77-** **HIGH INTENSITY FLASHING LIGHT, TEMPORARY, TYPE B** **ED**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 77	HIGH INTENSITY FLASHING LIGHTS, TEMP, TYPE B	ED		1/1/2007		$0.44

102- 78- TEMPORARY REFLECTIVE PAVEMENT MARKER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Class A, B, D, or E RPMs used to supplement pavement markings, as shown in Index 600.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 600, 17352

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 78-** **TEMPORARY REFLECTIVE PAVEMENT MARKER** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 78	REFLECTIVE PAVEMENT MARKER,TEMPORARY	EA		1/1/2007		$3.84

102- 79- TYPE C STEADY BURN LIGHT, TEMPORARY, BARRIER WALL MOUNT

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes **Roadway Design Bulletin 08-01, dated 1-14-08: Continue to use steady burn lights on channelizing devices.**

Details These lights are placed on Barrier Wall (Temp), excluding low profile. The standard

spacing will be:
50' on centers for transitions, 100' on centers for curves, 200' on centers tangents (15 meters on centers for transitions, 30 meters on centers for curves, 60 meters on centers for tangent);
Curves that are flat enough to maintain a normal 2% cross slope shall have spacing equal to that of a tangent.
QPL- Temporary barrier wall mount lights shall conform to the requirements of the pre-approved alternatives for temporary concrete or water filled barrier wall listed on the Department's Qualified Products List (QPL).

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	700-050-51	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	see detail	
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 79-** **TYPE C STEADY BURN LIGHT, TEMPORARY, BARRIER WALL MOUNT** **ED**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 79	LIGHTS,BARRIER WALL MOUNT,TEMP,TYPE C,STEADY BURN	ED		1/1/2007		$0.17

102- 81- 2 TEMPORARY CRASH CUSHION -GATING

Unit LO **Accuracy** Location **PlanQuantity?** no

Notes

Details

Formerly known as "Impact Attenuator Modules"
Roadway Design permission needed before "sand barrels" may be used; requires special design
QPL- Temporary Gating Crash Cushions shall conform to the requirements of the pre-approved alternatives listed on the Department's Qualified Products List (QPL), unless otherwise called for in the plans.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form	

(comp book).

References **PPM Chapter**

Other

Standards Index 417, see detail

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 81- 2** **TEMPORARY CRASH CUSHION -GATING** **LO**

Notes Contact Cheryl Adams prior to use. Project specific conditions must be reviewed.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

102- 89- A TEMPORARY CRASH CUSHION

Unit LO **Accuracy** Location **PlanQuantity?** no

Notes

Details Formerly known as "Impact Attenuators"
Payment will be made based on each location of the crash cushion/attenuator.
Redirective cushions selected by contractor, subject to Design Standards. Restricted options to be detailed in plans and documented in project file.
QPL- Temporary Redirective Crash Cushions shall conform to the requirements of the pre-approved alternatives listed on the Department's Qualified Products List (QPL), unless otherwise called for in the plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards See detail; Index No. 413, 415, 434, 432, 433, 435, 438, 439, 440, 441, 481, 493, 495, 497, 498

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 89- A** **TEMPORARY CRASH CUSHION** **LO**

A = Type
7 (Redirective Option)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 89 7	CRASH CUSHION/IMPACT ATTENUATOR, TEMPORARY, REDIRECTIVE OPTION	LO		1/1/2007		$1,403.83

102- 94- AB GLARE SCREEN

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details See barrier wall detail for measurement. to be used with Temporary Barrier Wall (Concrete)

Related Items **Required** 102- 71-xab **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 94- AB** **GLARE SCREEN** **LF**

A = Operation
Blank (Furnish and Install)
1 (Relocate)

B = Wall Material
1 (Concrete)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 94 1	GLARE SCREEN, TEMPORARY, F&I, WALL MATERIAL-CONCRETE	LF		1/1/2007		$12.00
0102 94 11	GLARE SCREEN, TEMPORARY, RELOCATE, WALL MATERIAL-CONCRETE	LF		1/1/2007		$10.00

102- 98- A BARRICADE TYPE III- TO REMAIN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 600
	Specifications	
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 98- A** **BARRICADE TYPE III- TO REMAIN** **EA**

A = Size
2 (6 Feet)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 98 2	BARRICADE TYPE III -TO REMAIN, 6'	EA		1/1/2007		$83.60

102- 99- CHANGEABLE VARIABLE MESSAGE SIGN- TEMPORARY

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details Should be considered for use in complex, high-density work zones. Messages must be simple, with a minimum number of words and lines, and should require no more than two displays of no more than three lines each. The Traffic Control Plan (TCP) shall include the location and messages to be displayed. Estimate the number needed for each traffic control plan phase, times the phase duration. Not to be used when standard signs are available.
Refer to the Plans Preparation Manual for proper usage.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	700-050-51	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 600	
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102- 99-** **CHANGEABLE VARIABLE MESSAGE SIGN-TEMPORARY** **ED**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102 99	CHANGEABLE-VARIABLE MESSAGE SIGN, TEMPORARY	ED		1/1/2007		$18.96

102-104- A TEMPORARY TRAFFIC CONTROL SIGNAL

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details Estimate based on the number of completed installations (each signalized location) in operation on the project.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 606

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102-104- A** **TEMPORARY TRAFFIC CONTROL SIGNAL** **ED**

A = Type
1 (Portable)
2 (Fixed)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102104 1	TEMPORARY TRAFFIC CONTROL, PORTABLE SIGNAL	ED		1/1/2007		$74.32
0102104 2	TEMPORARY TRAFFIC CONTROL, FIXED SIGNAL	ED		1/1/2007		$12.51

102-106- A BARRIER WALL CONCRETE (QUICK CHANGE MOVABLE)

Unit LF; M1; EA **Accuracy** Linear Foot; 10th of a Meter; Each **PlanQuantity?** no

Notes **Item must be coordinated with Roadway Design prior to opening.**

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 600

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **102-106- A** **BARRIER WALL CONCRETE (QUICK CHANGE MOVABLE)** **LF; EA**

A = Operation
1 (Furnish & Install) LF
2 (Lateral Relocation) EA
3 (Phase Relocation) LF

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

102-107- TEMPORARY TRAFFIC DETECTION, INTERSECTION

Unit DA **Accuracy** Day **PlanQuantity?** no

Notes

Details Identify intersections where required. Estimate number of intersections times number of contract days. Do not include "new" intersections. Payment will be for number of days Temp Traffic Detection Technology is used and authorized by Engineer.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102-107-** **TEMPORARY TRAFFIC DETECTION, INTERSECTION** **DA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102107	TEMPORARY TRAFFIC DETECTION, INTERSECT	DA		1/1/2007		$12.29

102-150- 1 PORTABLE REGULATORY SIGN

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details This device is part of the Motorist Awareness System (MAS). Design should work with Construction to determine the estimated days for each component of the motorist awareness system to be included in the contract.
Portable Regulatory Sign (PRS): The purpose of this device is to highlight the regulatory speed for the work zone. A PRS is a trailer that has the regulatory sign mounted with flashing lights on each side of the sign. The lights are used to draw the driver's attention to the regulatory speed.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 670.

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102-150- 1** **PORTABLE REGULATORY SIGN** **ED**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102150 1	PORTABLE REGULATORY, SIGN	ED		1/1/2007		$14.35

102-150- 2 RADAR SPEED DISPLAY UNIT

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes

Details This device is part of the Motorist Awareness System. Refer to item 102-150- 1 for additional detail information.
Radar Speed Display Unit (RSDU): The purpose of this device is to display the motorist's work zone speed. A radar speed display unit is a portable trailer that displays the speed of approaching motorists on a LED display panel. The radar mounted on the unit detects the speed. A regulatory sign with the posted speed is mounted above the LED display panel. The unit is fitted with a device which counts the number of vehicles passing the Radar Speed Display Unit. The counter device is capable of: digital readout of the total number of vehicles passing the radar speed display unit, and digital readout of the number of vehicles exceeding the speed limit shown on the radar speed display unit. The device can be set that only speeds greater than the work zone speed are displayed.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 670.

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102-150- 2** **RADAR SPEED DISPLAY UNIT** **ED**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102150 2	RADAR SPEED DISPLAY UNIT	ED		1/1/2007		$14.19

102-911- A PAVEMENT MARKING REMOVABLE- WHITE/BLACK

Unit LF; M1; SF; M2 **Accuracy** Linear Foot; 10th of a Meter; Square Foot; Square Meter **PlanQuantity?** no

Notes

Details Use of removable work zone pavement markings shall be as defined by 102-10 of the specifications.
FOR ITEM 102-911- 3 (2102-911- 3): Used for Stop bars, turn arrows, etc.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 600

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102-911- A** **PAVEMENT MARKING REMOVABLE- WHITE/BLACK** **LF; SF**

A = Type
1 (Skip) LF
2 (Solid) LF
3 (Other) SF

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102911 1	PAVEMENT MARKING REMOVABLE, WHITE-BLACK, SKIP	LF		1/1/2007		$1.49

102-912- A PAVEMENT MARKING REMOVABLE- YELLOW

Unit LF; M1; SF; M2 **Accuracy** Linear Foot; 10th of a Meter; Square Foot; Square Meter **PlanQuantity?** no

Notes

Details Use of removable work zone pavement markings shall be as defined by 102-10 of the specifications.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 600

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **102-912- A** **PAVEMENT MARKING REMOVABLE- YELLOW** **LF; SF**

A = Type

1 (Skip) LF
2 (Solid) LF
3 (Other) SF

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0102911 2	PAVEMENT MARKING REMOVABLE, WHITE-BLACK,SOLID	LF		1/1/2007		$1.89
0102911 3	PAVEMENT MARKING REMOVABLE, WHITE-BLACK, OTHER	SF		1/1/2007		$4.54
0102912 1	PAVT MARKING REMOVABLE, YELLOW, SKIP	LF		1/1/2007		$1.94
0102912 2	PAVEMENT MARKING REMOVABLE, YELLOW, SOLID	LF		1/1/2007		$1.95
0102912 3	PAVEMENT MARKING REMOVABLE, YELLOW, OTHER	SF		1/1/2007		$2.88

103- 1- TEMPORARY WORK STRUCTURE

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes **Monitor: Robert Robertson, State Structures Design Engineer**

Details Coordinate with the State Structures Design Office on the use of this item.

The plans shall include drawings depicting the construction methods assumed in the preparation of the plans. The designer shall determine if a temporary structure (temporary bridges, platforms, etc.) is needed to furnish the contractor with access to the site to enable the bridge to be built. When a temporary structure is required, the anticipated structure type will be shown in the plans.

Temporary Structures will be paid separately only if they are required for access or to comply with permit restrictions. If access is available by including, but not limited to, barges, mats, or existing ground, no temporary structure is required.

State Structures Office must request unblock pay item structure.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **103- 1-** **TEMPORARY WORK STRUCTURE** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0103 1	TEMPORARY WORK STRUCTURE	LS		1/1/2007		$18,869.00

104- 1- ARTIFICIAL COVERINGS FOR EROSION CONTROL

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details

This item may be used for two purposes. Estimate and/or calculate according to the following information. The total quantity is the sum used for the two purposes below. The quantity and purpose of each should be noted in a pay item footnote.
FOR PAUSES IN CONSTRUCTION: Used for pauses in construction due to inclement weather or other circumstances. For this purpose, artificial coverings may be composed of natural or synthetic fiber mats, plastic sheeting or netting. Estimate 1% of the total permanent grassing area, where the total grassing area is defined as the sum of the seeding + seeding and mulching + sodding areas. Coverings used for this purpose are typically removed when construction resumes.
FOR EROSION CONTROL: Used for erosion control that facilitates plant growth, while permanent grass is established. Biodegradable erosion control blankets are installed over a seeded area and may be used on fill slopes and in ditches, and left in place to biodegrade. Show in plans (plan view or tabulation of quantities) the locations where erosion control blankets are to be used. Calculate the quantity in square yards (square meters).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 1-** **ARTIFICIAL COVERINGS FOR EROSION CONTROL** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0104 1	ARTIFICIAL COVERINGS FOR EROSION CONTROL	SY		1/1/2007		$1.68

104- 4- MOWING

Unit AC; HA **Accuracy** 10th of an Acre; 10th of a Hectare **PlanQuantity?** no

Notes

Details This item is included for routine maintenance of existing, permanent, and temporary grassing until the project is completed.
Coordinate the use of this item with Sections 570 and 580. DO NOT use this item when payment for mowing is to be made under Section 570.
Estimated Design Quantity: Use total grassed area, plus any other undisturbed areas within the project limits that need to be mowed during the life of the contract. Obtain the mowing cycle from the local Maintenance Office; multiply the area by the number of mowing cycles to be performed during the life of the contract. Convert units to acres (hectares), as necessary. Detail calculations in the comp book.

Related Items **Required** **Recommended** 570-1-A, 580-1-A

Forms **Design** SHTabQuant COMP 700-050-01
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 4-** **MOWING** **AC**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0104 4	MOWING	AC		1/1/2007		$511.95

104- 5- SANDBAGGING

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Included for the purpose of controlling erosion and siltation. Use 12"x24"x6" bags (0.3 x 0.6 x 0.15 meter bags). Refer to index for applications and estimated quantity.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

	Construction	700-050-56
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 100, 102, 201
	Specifications	
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 5-** **SANDBAGGING** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0104 5	SANDBAGGING	CY		1/1/2007		$202.72

104- 6- TEMPORARY SLOPE DRAIN

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Base estimate as described by Roadway Standard Index No. 100, locations and lengths are required.

Related Items **Required** **Recommended** 104- 5, 575- 5 (2104-5, 2575-5)

Forms	**Design**	SHTabQuant COMP 700-050-03
	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 100
	Specifications	
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 6-** **TEMPORARY SLOPE DRAIN** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0104 6	TEMPORARY SLOPE DRAIN	LF		1/1/2007		$43.34

104- 7- SEDIMENT BASIN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Use when separate items for temporary erosion control features are included in the contract. Includes cost for riprap, fencing, baffles, piping, and earthwork, as indicated on Index. Refer to index for estimated quantity.

Related Items **Required** **Recommended** 104- 9- (2104- 9-)

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 101, 241

Specifications

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **104- 7-** **SEDIMENT BASIN** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0104 7	SEDIMENT BASIN	EA		1/1/2007		$2,286.18

104- 9- SEDIMENT BASIN CLEANOUT

Unit CO; EA **Accuracy** Per Clean Out; Each **PlanQuantity?** no

Notes

Details Estimate one cleanout per sediment basin, Item 104- 7 (2104- 7), on project.

Related Items **Required** **Recommended** 104- 7- (2104- 7-)

Forms **Design** SHTabQuant COMP 700-050-04

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 101

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 9-** **SEDIMENT BASIN CLEANOUT** **CO; EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0104 9	SEDIMENT BASIN CLEANOUT	EA		1/1/2007		$1,149.59

104- 10- 2 SYNTHETIC BALES

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **Effective January 2007; replaces 104-10-1 Baled Hay or Straw.**
NOTE: UNIT OF MEASURE CHANGED TO LINEAR FOOT

Details Consists of synthetic bales to protect against downstream accumulations of silt. Dams shall be constructed in accordance with the details shown in the plans or Design Standards. Standard lengths for common inlets will be shown on the Design Standards. Note that synthetic bales may be cleaned or replaced as necessary. Do not estimate for replacement cycles; payment includes maintenance of the erosion control device (cleaning and/or replacement), until permanent erosion control measures are in place.
All bales must be listed on the QPL, according to specification.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 10- 2** **SYNTHETIC BALES** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0104 10 2	SYNTHETIC BALES	LF		1/1/2007		$10.54

104- 11- A FLOATING TURBIDITY BARRIER

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details To be included in areas where dredging, filling or other construction activities may cause turbidity in water. Refer to Design Standard Index 103. Used when turbidity standards may be exceeded, as shown in the plans and permit.

Per the specifications (104-9), each location is paid per length, regardless of whether the barrier is new, used, or relocated from a previous location. The designer should estimate based on the tabulated length at each location.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 103

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 11- A** **FLOATING TURBIDITY BARRIER** **LF**

A = Blank (Standard)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0104 11	FLOATING TURBIDITY BARRIER	LF		1/1/2007		$10.86

104- 12- A STAKED TURBIDITY BARRIER

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details to be included in areas where continuous construction activities change the natural contour and drainage runoff. Should be installed across ditch lines and other temporary locations where construction may interfere with natural runoff. Refer to Design Standard Index 106.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 103

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 12- A** **STAKED TURBIDITY BARRIER** **LF**

A = Blank (Standard)
1 (Special) Plan Detail and/or Tech Spec Required

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0104 12	STAKED TURBIDITY BARRIER	LF		1/1/2007		$4.73

104- 13- A STAKED SILT FENCE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Used for erosion control in areas where construction activities may cause silt runoff. Type III Silt Fence, as detailed in Index No. 102, should be used in most locations. Type IV fence has greater strength and height and should be used where a large sediment load is anticipated (steep fill slopes, long fill slopes, or a combination of both likely to produce a large sediment load)
Each type of silt fence will have an estimated service life of 12 months. The quantity will be developed by estimating the time (in months) the fence will be in place at each location and dividing by 12 (rounding up to the nearest whole) to determine the number of replacements. The total length of fence at each location is determined by multiplying the length of fence at each location by the number of replacements.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 102, 106

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 13- A** **STAKED SILT FENCE** **LF**

A = Type
1 (Type III)
2 (Type IV)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0104 13 1	STAKED SILT FENCE, TYPE III	LF		1/1/2007		$1.10
0104 13 2	STAKED SILT FENCE, TYPE IV	LF		1/1/2007		$1.72

104- 15- SOIL TRACKING PREVENTION DEVICE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Should be constructed at points of egress from unstabilized areas of the project to minimize offsite tracking of sediment. to minimize tracking from the roadway portion of the project, use one device per mile (one device per 2 kilometers) with a minimum of two per project. Include an additional device for each storm water pond or mitigation site that is not adjacent to the roadway right-of-way. RRR projects should be handled on a case-by-case basis.
Payment includes excavation, grading, pipe, filter fabric, aggregate, etc., as indicated in Design Standard 106. Separate payment is made for hay bales and silt fence.

Related Items **Required** 104-10-1, 104-13-xxa **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards Index No. 106
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 15-** **SOIL TRACKING PREVENTION DEVICE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0104 15	SOIL TRACKING PREVENTION DEVICE	EA		1/1/2007		$2,709.23

104- 16- ROCK BAG

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Include for the purpose of controlling siltation at curb and gutter inlets as shown in the Design Standards. Bags are to be 12"x12"x4" (0.3 m x 0.3 m x 0.1 m). Estimate 20 bags for each curb inlet.

Related Items **Required** **Recommended** 104-10-1,

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 102

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 16-** **ROCK BAG** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0104 16	ROCK BAG	EA		1/1/2007		$7.22

104- 17- SAND FENCE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Temporary fence for sand locations, used for erosion control purposes. Tech Specs and/or plan details to include: fence size, slat size, post and fence materials, construction, installation, maintenance, removal, measurement, and payment. Spec to include option to allow fence to remain in place, at the discretion of the Engineer.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **104- 17-** **SAND FENCE** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0104 17	SAND FENCE	LF	T	5/18/2007		$3.35

109- 71- A FIELD OFFICE

Unit DA **Accuracy** Day **PlanQuantity?** no

Notes

Details

The designer should contact the District Construction Office to determine if this item should be used on a project. Consists of providing, furnishing and maintaining an Engineer's field office for exclusive use by the Department.
Type B Fencing shall be used as detailed on Roadway and Traffic Design Standards, Index No. 452 for enclosing the field office. Payment for the fence shall be included in the bid price of the field office.
The field office shall be a building or mobile trailer erected at locations selected by the engineer. The field office shall be paid for at the contract unit price per day. per the specifications, "Provide a Field Office for Department use beginning 10 working days before contract time begins, and remain for 30 days after final acceptance, unless the Department request removal earlier. Payment will be made for each day the field office is available for use by Department personnel."

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction 700-050-51

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 802

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **109- 71- A** **FIELD OFFICE** **DA**

A = Size
1 (300 Sq ft)
2 (600 Sq ft)

3 (900 Sq ft)
4 (1200 Sq ft)
5 (1500 Sq ft)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0109 71 1	FIELD OFFICE, 300 SQ FT	DA		1/1/2007		$50.00
0109 71 2	FIELD OFFICE, 600 SQ FT	DA		1/1/2007		$79.18
0109 71 3	FIELD OFFICE, 900 SQ FT	DA		1/1/2007		$81.84
0109 71 4	FIELD OFFICE,1200 SQ FT	DA		1/1/2007		$98.72
0109 71 5	FIELD OFFICE,1500 SQ FT	DA		1/1/2007		$91.21

110- 1- 1 CLEARING AND GRUBBING

Unit LS/AC; LS/HA **Accuracy** Lump Sum (1/100th of an Acre); Lump Sum (1/100th of a Hectare) **PlanQuantity?** yes

Notes

Details Consists of complete removal and disposal of all vegetation, debris, drainage structures, flexible pavement, buildings or any other obstructions in all areas where excavation is to be done, or where embankments or structures will be constructed. This includes roadway area, ditch area, borrow and material pits, and areas where culverts or pipe lines will be constructed. Code the number of acres (hectares). Locate or define the scope of work involved on the contract plans. (Removal of concrete pavement, non-asphalt, to be paid under 110- 4- (2110- 4-))

Related Items **Required** **Recommended**

Forms **Design** SBEHWK; SBEarthwork COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **110- 1- 1** **CLEARING AND GRUBBING** **LS/AC**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0110 1 1	CLEARING & GRUBBING	LS		1/1/2007		$11,272.71

110- 2- 1 CLEARING AND GRUBBING (PUSH BUTTON CONTRACT)

Unit AC; HA **Accuracy** 10th of an Acre; 10th of a Hectare **PlanQuantity?** no

Notes

Details

FOR PUSH BUTTON CONTRACTS ONLY
Consists of complete removal and disposal of all vegetation, debris, drainage structures, flexible pavement, buildings or any other obstructions identified in the plans or specifications. Locate or define the scope of work involved. (Removal of concrete pavement, non-asphalt, to be paid under 110- 4- (2110- 4-))

Related Items **Required** **Recommended**

Forms **Design** SBEHWK; SBEarthwork COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 2- 1** **CLEARING AND GRUBBING (PUSH BUTTON CONTRACT)** **AC**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0110 2 1	CLEARING & GRUBBING (PUSH BUTTON CONTRACT)	AC		1/1/2007		$12,540.00

110- 3- REMOVAL OF EXISTING STRUCTURE

Unit LS/SF; LS/M2 **Accuracy** Lump Sum (Square Foot); Lump Sum (Square Meter) **PlanQuantity?** yes

Notes

Details

to be used for the removal of existing bridge structures and box culverts. Includes all work of removal (complete and/or partial), and disposal of the designated structures. Code the number of square feet (square meters), out-to-out of coping from begin bridge to end bridge.
If bridge debris is to be delivered to another agency, refer to specifications for delivery location. Delivery costs are included in the price for Removal of Existing Structure.
Add pay item note in plans that address bridges to be completely removed and bridges to be partially removed. Tabulate bridges by bridge number and deck area to be removed. Quantities to be based on out-to-out of coping from begin bridge to end bridge or from coping line to saw cut line from begin bridge to end bridge as applicable. Do not include rip-rap, fill slope area in removal quantity. Cover items to be removed in pay item note.

Insert existing bridge plans into plan set. Show existing piling on Foundation Layout Sheet that requires complete removal (conflict with proposed foundations, or conflicts with future channel dredging per permit requirements, etc.).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 3-** **REMOVAL OF EXISTING STRUCTURE** **LS/SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0110 3	REMOVAL OF EXISTING STRUCTURE	LS		1/1/2007		$40.83

110- 4- REMOVAL OF EXISTING CONCRETE PAVEMENT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Consists of removing and disposing of existing concrete pavement, concrete sidewalks, slope pavement, ditch pavement and curb and gutter, where required because of construction operations. Specifically excludes retaining walls and drainage structures. NOTE: Do not include flexible pavement removal under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 4-** **REMOVAL OF EXISTING CONCRETE PAVEMENT** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0110 4	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY		1/1/2007		$13.00

110- 5- PLUGGING WATER WELL- ARTESIAN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Artesian is defined in specifications as "an artificial hole in the ground from which water supplies may be obtained and which penetrates any water bearing rock, the water in which is raised to the surface by natural flow…"

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 5-** **PLUGGING WATER WELL- ARTESIAN** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0110 5	PLUGGING WATER WELLS, ARTESIAN	EA		1/1/2007		$2,115.01

110- 6- PLUGGING WATER WELL- NON-ARTESIAN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Non-Artesian is defined in the specifications as "a well in which the source of water is an unconfined aquifer. The water… does not rise above the source bed."

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 6-** **PLUGGING WATER WELL- NON-ARTESIAN** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0110 6	PLUGGING WATER WELLS, NON-ARTESIAN	EA		1/1/2007		$2,567.76

110- 7- A MAILBOX

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Used for replacement of residential or business mailboxes that must be removed during construction operations. Refer to Index 532 for details.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards Index No. 532
Specifications
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 7- A** **MAILBOX** **EA**

A = Description
1 (Furnish & Install Single)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0110 7 1	MAILBOX, F&I SINGLE	EA		1/1/2007		$136.42

110- 8- A UNDERWATER DEBRIS REMOVAL

Unit DA; TN; MT **Accuracy** Day; Ton; Metric Ton **PlanQuantity?** no

Notes

Details

The specification must describe the item in detail, including its acceptance criteria, method of measurement, and for lump sum items, any secondary units of measure. This item should only be used when the designer is reasonably sure of the number of days which will be required for the task. The daily unit cost for the cranes and barges typically used in this item is relatively high and can quickly lead to large overrun costs if the number of days cannot be accurately estimated. Item 110-3 (2110- 3) is a more appropriate item to use when an accurate estimate of days required cannot be made.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

	Required	Recommended
Forms	**Design** SHTabQuant	COMP 700-050-03
	Construction 700-050-51	
Documentation	**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s) 7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 8- A** **UNDERWATER DEBRIS REMOVAL** **DA; TN**

A = Method of Measurement
blank (Day) DA
1 (Weight) TN

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0110 8	UNDERWATER DEBRIS REMOVAL	DA	T	1/1/2007		$7,291.11

110- 12- A HYDRODEMOLITION

Unit SY; M2; SF **Accuracy** Square Yard; Square Meter; Square Foot **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 12- A** **HYDRODEMOLITION** **SY; SF**

A = Description/Unit of Measure
1 (Removal Of Deck Surface) SY
2 (Removal Of Concrete Curb) SF

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0110 12 1	HYDRODEMOLITION, REMOVAL OF DECK SURFACE	SY	T	1/1/2007		$67.41

110- 71- 1 BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL- REHAB PROJECTS ONLY

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details For use on Fender System Rehab projects only.
For projects with bridge and fender system replacement, payment for removal and disposal of existing fender system is included under Removal Of Existing Structures, item 110-3. Plan Details and/or Tech Spec must address proper disposal of timber, as well as measurement and payment of rehab work. Refer to Section 110 of Specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	6, 7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 71- 1** **BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL-REHAB PROJECTS ONLY** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0110 71 1	BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL	LF	T	1/1/2007		$829.72

110- 73- REMOVE EXISTING BULKHEAD

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **110- 73-** **REMOVE EXISTING BULKHEAD** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0110 73	REMOVE EXISTING BULKHEAD	LF	T	1/1/2007		$51.55

110- 82- REMOVE & DISPOSE STRUCTURAL TIMBER

Unit MB; M3 **Accuracy** 10th of a Thou Board Measure; 10th of a Cubic Meter **PlanQuantity?** no

Notes

Details one board foot= one foot square by one inch thick; convert to thousand board foot for pay item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **110- 82-** **REMOVE & DISPOSE STRUCTURAL TIMBER** **MB**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0110 82	REMOVE & DISPOSE STRUCTURAL TIMBER	MB	T	1/1/2007		$3,960.24

110- 84- TRANSPORT EXISTING MATERIAL FOR REEF ESTABLISHMENT

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 84-** **TRANSPORT EXISTING MATERIAL FOR REEF ESTABLISHMENT** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

110- 85- CLEANING INTERIOR OF SEGMENTAL BOX GIRDER SPAN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Valid for maintenance use. Detail cleaning requirements in the plans or specifications.

Related Items **Required** **Recommended**

Forms **Design** CADD 625-000-02/22

Construction Refer to Comp Book

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 85-** **CLEANING INTERIOR OF SEGMENTAL BOX GIRDER SPAN** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

110- 86- DELIVERY OF SALVAGEABLE MATERIAL TO FDOT

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

Designer must coordinate with Maintenance Office prior to using this item. Plan note as to delivery location of salvageable material must be included.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **110- 86-** **DELIVERY OF SALVAGEABLE MATERIAL TO FDOT** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0110 86	DELIVERY OF SALVAGEABLE MATERIAL TO FDOT	LS	T	1/1/2007		$5,161.58

120- 1- REGULAR EXCAVATION

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** yes

Notes

Details Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items. This item should be used on projects with cross sections to pay for the quantity of excavation on the project.

Related Items **Required** **Recommended** 120- 6 (2120- 6)

Forms **Design** SBEHWK; SBEarthwork COMP 700-050-04

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 285, 500, 505

Specifications

Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 1-** **REGULAR EXCAVATION** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0120 1	REGULAR EXCAVATION	CY		1/1/2007		$5.09

120- 2- A BORROW EXCAVATION

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items.

TRUCK MEASURE: This item should only be used on projects with limited or no cross sections. The method to determine the quantity of borrow excavation is as follows:

Fill x Fill Adjustment Factor x Truck Adjustment Factor = Borrow Excavation (Truck Measure).

For example, if the fill adjustment is 20%, the fill adjustment factor is 1.2; and if the truck adjustment is 25%, the truck adjustment factor is 1.25

Applied to the above equation, an original fill amount of 253 CY would become:
253 X 1.2 X 1.25 = 380 CY of Borrow, Truck Measure

Note- the adjustments vary based on the type of material. Per the PPM, contact the District Materials of District Construction Office for project specific numbers.

For final quantity, measure the width, height, and length inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% of the result to account for the hoist box and bed fillets.

Related Items **Required** **Recommended** 120- 71 (2120- 71)

Forms **Design** SBEHWK; SBEarthwork COMP 700-050-04

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Chapter 3

Other

Standards Index No. 500, 505

Specifications

Prep & Doc Manual Chapter(s) 6, 8, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 2- A** **BORROW EXCAVATION** **CY**

A = Measure Type
2 (Truck Measure)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0120 2 2	BORROW EXCAVATION, TRUCK MEASURE	CY		1/1/2007		$10.03

120- 3- LATERAL DITCH EXCAVATION

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** yes

Notes

Details Consists of excavation on portions of lateral ditches beyond the limits of the roadway ROW. Includes inlet and outlet ditches, ditches parallel to the roadway, and may include channel excavation if Item 120-5 (2120- 5) is not used.

Related Items **Required** **Recommended**

Forms **Design** SBEHWK; SBEarthwork COMP 700-050-04

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 281, 500

Specifications

Prep & Doc Manual Chapter(s) 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 3-** **LATERAL DITCH EXCAVATION** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0120 3	LATERAL DITCH EXCAVATION	CY		1/1/2007		$20.07

120- 4- SUBSOIL EXCAVATION

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items. Consists of excavation and disposal of muck, clay, rock or other material that is unsuitable in its original position, and that is excavated below the finished grade line template. Also includes all suitable material necessary to be removed in order to excavate the unsuitable material. The areas used to calculate subsoil excavation must also be used in calculating the fill areas, if material is to be replaced.

Related Items **Required** **Recommended** 120- 2- 2 or 120- 6 (2120- 2- 2 or 2120- 6)

Forms **Design** SBEHWK; SBEarthwork COMP 700-050-04

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 500, 505

Specifications

Prep & Doc Manual Chapter(s) 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 4-** **SUBSOIL EXCAVATION** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0120 4	SUBSOIL EXCAVATION	CY		1/1/2007		$10.89

120- 5- CHANNEL EXCAVATION

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Consists of excavation and disposal of all material from the limits of the channel, within the

lines and grades indicated in the plans and permit.

Related Items **Required** **Recommended**

Forms **Design** SBEHWK; SBEarthwork COMP 700-050-04

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 120- 5- CHANNEL EXCAVATION CY

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0120 5	CHANNEL EXCAVATION	CY		1/1/2007		$22.96

120- 6- EMBANKMENT

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** yes

Notes

Details Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items. This item should be used on projects with cross sections to pay for the quantity of embankment on the project.

Related Items **Required** **Recommended** 120- 1 (2120- 1)

Forms **Design** SBEHWK; SBEarthwork COMP 700-050-04

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 500, 505

Specifications

Prep & Doc Manual Chapter(s) 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 6-** **EMBANKMENT** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0120 6	EMBANKMENT	CY		1/1/2007		$8.88

120- 71- REGULAR EXCAVATION (3R PROJECTS ONLY)

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details Refer to Plans Preparation Manual, Volume 1, Chapter 3 for guidance on Earthwork Items. to be used only on resurfacing or minor widening and resurfacing projects which conform to the guidelines in the Plans Preparation Manual. The designer will calculate quantities based on information obtained from the field and the proposed typical section. The designer will continue to show the Summary of Earthwork in the plans. The summary should show all quantities and adjustments.
Effective 7/2000 letting: This item should be used on projects with limited or no cross sections, to pay for the quantity of excavation on the project. Item 120- 2- 2 (2120- 2- 2) should be considered.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 71-** **REGULAR EXCAVATION (3R PROJECTS ONLY)** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0120 71	REGULAR EXCAVATION (3-R PROJECTS ONLY)	LS		1/1/2007		$23,478.15

120- 72- GRAVEL FILL

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Calculations will be made by the average end area method for all material placed within the limits and according to the detail shown in the plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Tech Spec required.

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 72-** **GRAVEL FILL** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0120 72	GRAVEL FILL	CY	T	1/1/2007		$188.82

120- 73- LIGHTWEIGHT AGGREGATE FILL

Unit CY; M3 **Accuracy** 10th of a Cubic Yard; 10th of a Cubic Meter **PlanQuantity?** no

Notes

Details Calculations will be made by the average end area method for all material placed within the limits and according to the detail shown in the plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 73-** **LIGHTWEIGHT AGGREGATE FILL** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0120 73	LIGHTWEIGHT AGGREGATE FILL	CY	T	1/1/2007		$0.00

120- 74- SURCHARGE EMBANKMENT

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details

The work of constructing surcharge fills, as shown in the plans and any extensions thereof, directed by the engineer, shall be included in the price and payment for surcharge embankment. The quantity shall be measured as provided in 120-12.2, with the exception that the original ground line used in computations shall be the finished grading template for the permanent construction. The measurement shall include only surcharge material actually placed above the original ground line (as defined above) and within the lines and grades for surcharge construction, as indicated in the plans or directed by the engineer. No allowance will be made for subsidence of material below the original ground line, as defined above. The price and payment for surcharge embankment shall be full compensation for all work required to construct and remove surcharge fills, including furnishing from areas provided by the contractor and borrow excavation required. Surcharge embankment requires a Technical Specification.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **120- 74-** **SURCHARGE EMBANKMENT** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0120 74	SURCHARGE EMBANKMENT	CY	T	1/1/2007		$26.81

121- 70- FLOWABLE FILL

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Applications for flowable fill include: beddings, encasements, closure for tanks, pipes, and general backfill for trenches.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 307

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **121- 70-** **FLOWABLE FILL** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0121 70	FLOWABLE FILL	CY		1/1/2007		$166.33

125- 1- EXCAVATION FOR STRUCTURES

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Includes excavation for bridge foundations, box culverts, pipe culverts, retaining walls,

headwalls for pipe culverts and drains, manholes, and similar structures.
Direct Payment: refer to Method of Measurement in specifications.
No Direct Payment: work is included in the price for concrete or other related items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **125- 1-** **EXCAVATION FOR STRUCTURES** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0125 1	EXCAVATION FOR STRUCTURES	CY		1/1/2007		$66.60

125- 3- SELECT BEDDING MATERIAL

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details No payment for this material will be made when available from excavation of pipe culvert or from other material from grading operations at a location not sufficiently remote to require loading on trucks.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **125- 3-** **SELECT BEDDING MATERIAL** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0125 3	SELECT BEDDING MATERAL	CY		1/1/2007		$90.56

141- 70- SETTLEMENT PLATE ASSEMBLY

Unit AS; EA **Accuracy** Assembly; Each **PlanQuantity?** no

Notes

Details Used with surcharge embankment item

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 540

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **141- 70-** **SETTLEMENT PLATE ASSEMBLY** **AS; EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0141 70	SETTLEMENT PLATE ASSEMBLY	AS	T	1/1/2007		$730.67

142- 70- SAND FILL

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description,

materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-04
	Construction	700-050-54	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	6, 7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **142- 70-** **SAND FILL** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0142 70	FILL SAND	CY		1/1/2007		$35.91

144- 1- A DIGITAL INCLINOMETER CASING

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes	**Valid through 6-30-2009; future use to be coordinated with State Geotech Engineer**		
Details	For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.		
Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **144- 1- A** **DIGITAL INCLINOMETER CASING** **LF**

A = Description
1 (Vertical)
2 (Horizontal)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0144 1 1	DIGITAL INCLINOMETER CASING, VERTICAL	LF	T	1/1/2007	6/30/2009	$21.33

144- 71- PORE-PRESSURE TRANSDUCER (PIEZOMETER)

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Valid through 6-30-2009; future use to be coordinated with State Geotech Engineer**

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **144- 71-** **PORE-PRESSURE TRANSDUCER (PIEZOMETER)** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0144 71	PORE-PRESSURE TRANSDUCER, PIEZOMETER	EA	T	1/1/2007	6/30/2009	$1,800.00

144- 72- TUBING FOR PIEZOMETER

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **Valid through 6-30-2009; future use to be coordinated with State Geotech Engineer**

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **144- 72-** **TUBING FOR PIEZOMETER** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0144 72	TUBING FOR PIEZOMETER	LF	T	1/1/2007	6/30/2009	$15.00

144- 73- DIGITAL INCLINOMETER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Valid through 6-30-2009; future use to be coordinated with State Geotech Engineer**

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **144- 73-** **DIGITAL INCLINOMETER** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

144- 74- PORE-PRESSURE TRANSDUCER- CONTROL/READOUT UNIT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Valid through 6-30-2009; future use to be coordinated with State Geotech Engineer**

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **144- 74-** **PORE-PRESSURE TRANSDUCER- CONTROL/READOUT UNIT** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0144 74	PORE-PRESSURE TRANSDUCER, CONTROL / READOUT UNIT	EA	T	1/1/2007	6/30/2009	$1,000.00

145- 1- GEOSYNTHETIC REINFORCED SOIL SLOPE

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** yes

Notes

Details Refer to Plans Prep Manual, Volume 1, Chapter 31, to establish design guidelines, parameters, and limitations for these systems. Payment will be based on Plan Quantity, regardless of the length or number of layers of geosynthetic, including any reinforcement required below ground line. Does not include the cost of backfill material or placement of backfill.
Plan measurement will be based on the projected height of the slope face, from top of slope to the ground line at the toe of slope. Refer to the specifications.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 501

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **145- 1-** **GEOSYNTHETIC REINFORCED SOIL SLOPE** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0145 1	GEOSYNTHETIC REINFORCED SOIL SLOPE	SF		1/1/2007		$4.81

145- 2- GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Refer to Plans Prep Manual, Volume 1, Chapter 31, to establish design guidelines, parameters, and limitations for these systems. Payment will be based on Plan Quantity, regardless of the length or number of layers of geosynthetic, including any reinforcement required below ground line. Does not include the cost of backfill material or placement of backfill.

Plan measurement will be based on the area of embankment to be reinforced. Refer to specifications.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-01
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 501	
	Specifications		
	Prep & Doc Manual Chapter(s)	6, 7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **145- 2-** **GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0145 2	GEOSYNTHETIC REINFORCED FOUNDATION OVER SOFT SOIL	SY		1/1/2007		$7.24

145- 71- A REINFORCEMENT GRID

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **Future use will require Specification Development**

Details Geosynthetic Reinforced Roadway Base for Construction Expedient

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-01
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 501	

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **145- 71- A** **REINFORCEMENT GRID** **SY**

A = Description
1 (Biaxial Type 1)
2 (Biaxial Type 2)
3 (Biaxial Type 3)

Notes Future use will require Specification Development

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0145 71 1	REINFORCEMENT GRID, BIAXIAL TYPE 1	SY	T	1/1/2007		$3.42
0145 71 2	REINFORCEMENT GRID, BIAXIAL TYPE 2	SY	T	1/1/2007		$6.00
0145 71 3	REINFORCEMENT GRID, BIAXIAL TYPE 3	SY	T	1/1/2007		$30.00

160- 3- COMMERCIAL STABILIZING MATERIAL

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Contact the District Soils Engineer for basis of estimate on each project. Show basis.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **160- 3-** **COMMERCIAL STABILIZING MATERIAL** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0160 3	COMMERCIAL STABILIZING MATERIAL	CY		1/1/2007		$18.50

160- 4- TYPE B STABILIZATION

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Consists of stabilizing designated portions of the roadbed to provide a firm and unyielding subgrade. Stabilizing material can be obtained from existing base material, or from commercial and local materials.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 506

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **160- 4-** **TYPE B STABILIZATION** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0160 4	TYPE B STABILIZATION	SY		1/1/2007		$3.91

160- 6- STABILIZED SUBBASE

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Stabilized subbase intended to strengthen the upper protion of the subgrade.

Refer to Section 180 (180 items) for Special Select Stabilized Subbase.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **160- 6-** **STABILIZED SUBBASE** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0160 6	STABILIZED SUBBASE	SY		1/1/2007		$10.22

162- 1- AB PREPARED SOIL LAYER

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Not to be used for Section 580: Landscape Operations. Refer to 580 specifications.

FINISH SOIL LAYER: to be used for areas to be seeded, seeded and mulched, or planted. (Included for sodded areas when called for in the plans.) Refer to 162 specifications.
ORGANIC SOIL LAYER: only when required by permit. 6" depth.
BLANKET MATERIAL: only when required by permit. Show depth in plans

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 105
Blanket Material: Index No. 505

Specifications

Selected items to be used by Permit only

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **162- 1- AB** **PREPARED SOIL LAYER** **SY**

A= Material
1 (Finish Soil Layer)
2 (Organic Soil Layer) Note: by Permit only
3 (Blanket Soil Layer) Note: By Permit Only

B= Depth
1 (6") Standard
2 (12")
3 (Special Depth) A=2 or 3 only

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0162 1 11	PREPARED SOIL LAYER, FINISH SOIL LAYER, 6"	SY		1/1/2007		$1.22
0162 1 12	PREPARED SOIL LAYER, FINISH SOIL LAYER, 12"	SY		1/1/2007		$18.59
0162 1 21	PREPARED SOIL LAYER, ORGANIC SOIL LAYER, 6"	SY	P	1/1/2007		$3.02
0162 1 22	PREPARED SOIL LAYER, ORGANIC SOIL LAYER, 12"	SY	P	1/1/2007		$5.75
0162 1 33	PREPARED SOIL LAYER, BLANKET SOIL LAYER, SPECIAL DEPTH	SY	P	3/1/2007		$8.06

173- 71- DRILLING HOLES FOR PRESSURE GROUTING

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **173- 71-** **DRILLING HOLES FOR PRESSURE GROUTING** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0173 71	DRILLING HOLES FOR PRESSURE GROUTING	EA	T	1/1/2007		$306.00

173- 76- GROUT PIPE INSTALLATION

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **173- 76-** **GROUT PIPE INSTALLATION** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0173 76	GROUT PIPE INSTALLATION	LF	T	1/1/2007		$18.12

173- 77- A SUBSURFACE PRESSURE GROUTING

Unit CY; M3 **Accuracy** 10th of a Cubic Yard; 10th of a Cubic Meter **PlanQuantity?**

Notes

Details Contact the State Structures Design Office prior to using this item.
This item to be used for subsurface applications only. May be used for sinkhole repair.
Tech Specs should indicate that this item includes all work and materials for grout injection; drilling holes and grout pipe may be paid separately under related 173 items. Clearly define material properties in specifications.
For concrete structures, refer to Structures items 400 to 460.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended** 173- 71-, 173- 76-

Forms **Design** SHTabQuant COMP 700-050-04/07

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **173- 77- A** **SUBSURFACE PRESSURE GROUTING** **CY**

A= Grout Material
1 (Sand-Cement)
2 (Sand Cement with Calcium Chloride) CaCl_2
3 (Cement Slurry)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0173 77 1	SUBSURFACE PRESSURE GROUTING, SAND CEMENT	CY	T	1/1/2007		$310.95
0173 77 2	SUBSURFACE PRESSURE GROUTING, SAND CEMENT WITH CALCIUM CHLORIDE	CY	T	1/1/2007		$750.00
0173 77 3	SUBSURFACE PRESSURE GROUTING, CEMENT SLURRY	CY	T	1/1/2007		$750.00

175- 1- RESEATING CONCRETE PAVEMENT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Perform controlled cracking of concrete pavement and reseating of the cracked slabs, by rolling, tamping, etc., on the underlying subgrade to provide a firm base for asphalt concrete surfacing.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	6, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **175- 1-** **RESEATING CONCRETE PAVEMENT** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0175 1	RESEATING CONCRETE PAVEMENT	SY		1/1/2007		$7.50

180- 70- STABILIZED SUBBASE

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes **Valid through 6-30-2008. For projects with asphalt surfaces, refer to Section 160 items. For projects with concrete surfaces, contact Pavement Design for Developmental Specification.**

Details Refer to specifications- compare Section 160 and 180 prior to requesting item(s).

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-01
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	6, 7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **180- 70-** **STABILIZED SUBBASE** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0180 70	STABILIZED SUBBASE	SY		1/1/2007	1/1/2008	$9.48

180- 72- RIGID PAVEMENT STABILIZED SUBBASE, SPECIAL SELECT MATERIAL

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes **Valid through 6-30-2008. For projects with asphalt surfaces, refer to Section 160 items. For projects with concrete surfaces, contact Pavement Design for Developmental Specification.**

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **180- 72-** **RIGID PAVEMENT STABILIZED SUBBASE, SPECIAL SELECT MATERIAL** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0180 72	STABILIZED SUBBASE FOR RIGID PAVEMENT- SPECIAL SELECT	SY	T	1/1/2007		$23.00

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BOE

Basis of Estimates

Chapter 12

Items 200 to 299

State Specifications and Estimates Office
Estimating Systems Support Section

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210- 1- AA	REWORKING LIMEROCK BASE		
	Unit SY; M2	**Accuracy** Square Yard; Square Meter	**PlanQuantity?** yes

Notes

Details Rework (or rework and widen) the existing rock base, by adding new limerock material as required by the plans. Construct adjacent turnouts, entirely with new limerock.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-01
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	6, 7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **210- 1- AA** **REWORKING LIMEROCK BASE** **SY**

AA = Thickness
1 (6")
2 (8" D-CSE)
3 (10" D-CSE)
4 (Var. Thickness)
5 (5")
6 (12" D-CSE)
7 (9" D-CSE)
8 (4")
9 (3")
11 (14" T-CSE)
12 (16" T-CSE)
13 (11" D-CSE)
14 (Var. Thickness 4 1/2" Avg.)
15 (Var. Thickness 12 1/2" Avg.)
16 (7")
17 (13" D-CSE)
18 (14" D-CSE)
19 (Var. Thickness 7 1/2" Avg.)
20 (Var. Thickness 9" Avg.)
21 (4 1/2")
22 (9 1/2")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0210 1 1	REWORKING LIMEROCK BASE, 6"	SY		1/1/2007		$4.10
0210 1 9	REWORKING LIMEROCK BASE, 3"	SY		1/1/2007		$50.00

210- 2- LIMEROCK, NEW MATERIAL

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Measurement, from specification: The quantity to be paid for will be the number of cubic yards of only the new limerock material actually placed in the road and accepted. The quantity will be determined by measurement in loose volume, in truck bodies, at the point of dumping on the road, with proper deduction for all materials wasted, left in trucks or otherwise not actually used in the road. For this purpose, level the material in the truck bodies to facilitate accurate measurement.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **210- 2-** **LIMEROCK, NEW MATERIAL** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0210 2	LIMEROCK-NEW MATERIAL	CY		1/1/2007		$42.00

230- 2- LIMEROCK MATERIAL

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Refer to specifications for correct usage; consider optional base pay item when possible.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **230- 2-** **LIMEROCK MATERIAL** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

285-7AA- OPTIONAL BASE

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details

Consists of base construction of one of the optional materials shown in the plan typical sections. The plans will include typical sections specifying only the base group on new construction and complete reconstruction projects, permitting the maximum number of general use options that the contractor can utilize. Note that there are still limitations given in the notes. Also, the designer can still specify base materials, if this is appropriate for the project. The Optional Base item is also used when specifying only one option, such as ABC III. The quantity must include a 4" (0.1 m) overhang, as shown on the typical section for rural projects.

NOTE: The cost of prime or tack coats used between layers of the base are included in the cost of the Optional Base.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 514

Specifications

Prep & Doc Manual Chapter(s) 6, 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **285-7AA-** **OPTIONAL BASE** **SY**

AA = Is 01 Thru 15 which indicates Base Group, as shown on Index 514

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0285701	OPTIONAL BASE, BASE GROUP 01	SY		1/1/2007		$8.64
0285702	OPTIONAL BASE, BASE GROUP 02	SY		1/1/2007		$9.53
0285703	OPTIONAL BASE, BASE GROUP 03	SY		1/1/2007		$19.28
0285704	OPTIONAL BASE, BASE GROUP 04	SY		1/1/2007		$9.59
0285705	OPTIONAL BASE, BASE GROUP 05	SY		1/1/2007		$36.04
0285706	OPTIONAL BASE, BASE GROUP 06	SY		1/1/2007		$20.93
0285707	OPTIONAL BASE, BASE GROUP 07	SY		1/1/2007		$44.41
0285708	OPTIONAL BASE, BASE GROUP 08	SY		1/1/2007		$31.64
0285709	OPTIONAL BASE, BASE GROUP 09	SY		1/1/2007		$14.58
0285710	OPTIONAL BASE, BASE GROUP 10	SY		1/1/2007		$13.74
0285711	OPTIONAL BASE, BASE GROUP 11	SY		1/1/2007		$25.20
0285712	OPTIONAL BASE, BASE GROUP 12	SY		1/1/2007		$18.33
0285713	OPTIONAL BASE, BASE GROUP 13	SY		1/1/2007		$49.49
0285714	OPTIONAL BASE, BASE GROUP 14	SY		1/1/2007		$68.51
0285715	OPTIONAL BASE, BASE GROUP 15	SY		1/1/2007		$58.42

286- 1- TURNOUT CONSTRUCTION

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Consists of constructing new turnouts or extending existing turnouts on resurfacing and widening/resurfacing projects. Consists of excavation and construction of base course, and specifically excludes placing of AC surface course.

Related Items **Required** **Recommended**

Forms **Design** SBTURN; SBTurnouts COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 516

Specifications

Prep & Doc Manual Chapter(s) 6, 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **286- 1-** **TURNOUT CONSTRUCTION** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0286 1	TURNOUT CONSTRUCTION	SY		1/1/2007		$18.79

286- 2- TURNOUT CONSTRUCTION- ASPHALT

Unit TN; MT **Accuracy** 10th of a Ton; 10th of a Metric Ton **PlanQuantity?** no

Notes

Details Consists of constructing new turnouts or extending existing turnouts on resurfacing and widening/resurfacing projects. Consists of excavation and construction of asphalt base course, and specifically excludes placing of AC surface course.

Related Items **Required** **Recommended**

Forms **Design** SBTURN; SBTurnouts COMP 700-050-06

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 516

Specifications

Prep & Doc Manual Chapter(s) 6, 9, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **286- 2-** **TURNOUT CONSTRUCTION- ASPHALT** **TN**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0286 2	TURNOUT CONSTRUCTION-ASPHALT	TN		1/1/2007		$156.22

287- 1- ASPHALT TREATED PERMEABLE BASE

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** yes

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 287

Specifications

Prep & Doc Manual Chapter(s) 6, 9, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **287- 1-** **ASPHALT TREATED PERMEABLE BASE** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0287 1	ASPHALT TREATED PERMEABLE BASE	CY		1/1/2007		$340.00

288-001- CEMENT TREATED PERMEABLE BASE

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** yes

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 287

Specifications

Prep & Doc Manual Chapter(s) 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **288-001-** **CEMENT TREATED PERMEABLE BASE** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0288001	CEMENT TREATED PERMEABLE BASE	CY		1/1/2007		$439.83

BOE

Basis of Estimates

Chapter 13

Items 300 to 399

State Specifications and Estimates Office
Estimating Systems Support Section

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327- 70- AA MILLING EXISTING ASPHALT PAVEMENT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Consists of removing existing AC pavement to improve the rideability of the finished pavement, to lower the finished grade adjacent to existing curb prior to resurfacing, or to completely remove existing pavement. Includes transporting the milled material to the asphalt plant site, and stockpiling the material. Also includes removal of existing Reflective Pavement Markers. Show basis of calculation, include exceptions.

Related Items **Required** **Recommended** 300- 1- 1 (2300- 1- 1)

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **327- 70- AA** **MILLING EXISTING ASPHALT PAVEMENT** **SY**

AA =
1 (1" Avg. Depth)
2 (3 1/2" Avg. Depth)
3 (4 1/2" Avg. Depth)
4 (3" Avg. Depth)
5 (2" Avg. Depth)
6 (1 1/2" Avg. Depth)
7 (4" Avg. Depth)
8 (2 1/2" Avg. Depth)
9 (5 1/4 Avg. Depth)
10 (5" Avg. Depth)
11 (2 1/4" Avg. Depth)
12 (1 1/4" Avg. Depth)
13 (1 3/4" Avg. Depth)
14 (6 1/2" Avg. Depth)
15 (2 3/4" Avg. Depth)
16 (1/2" Avg. Depth)
17 (3 1/4" Avg. Depth)
18 (5 1/2" Avg. Depth)
19 (3/4" Avg. Depth)
20 (3 3/4" Avg. Depth)
21 (7" Avg. Depth)
22 (4 1/4" Avg. Depth)
23 (6" Avg. Depth)
24 (9" Avg. Depth)

25 (8" Avg. Depth)
26 (4 3/4" Avg. Depth)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0327 70 1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	SY		1/1/2007		$2.09
0327 70 2	MILLING EXIST ASPH PAVT, 3 1/2" AVG DEPTH	SY		1/1/2007		$3.49
0327 70 3	MILLING EXIST ASPH PAVT, 4 1/2" AVG DEPTH	SY		1/1/2007		$4.47
0327 70 4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	SY		1/1/2007		$2.52
0327 70 5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	SY		1/1/2007		$2.46
0327 70 6	MILLING EXIST ASPH PAVT, 1 1/2" AVG DEPTH	SY		1/1/2007		$2.34
0327 70 7	MILLING EXIST ASPH PAVT, 4" AVG DEPTH	SY		1/1/2007		$2.25
0327 70 8	MILLING EXIST ASPH PAVT, 2 1/2" AVG DEPTH	SY		1/1/2007		$2.27
0327 70 9	MILLING EXIST ASPH PAVT, 5 1/4" AVG DEPTH	SY		1/1/2007		$7.35
0327 70 10	MILLING EXIST ASPH PAVT, 5" AVG DEPTH	SY		1/1/2007		$26.00
0327 70 11	MILLING EXIST ASPH PAVT, 2 1/4" AVG DEPTH	SY		1/1/2007		$2.46
0327 70 12	MILLING EXIST ASPH PAVT, 1 1/4" AVG DEPTH	SY		1/1/2007		$2.27
0327 70 13	MILLING EXIST ASPH PAVT, 1 3/4" AVG DEPTH	SY		1/1/2007		$2.28
0327 70 14	MILLING EXIST ASPH PAVT, 6 1/2" AVG DEPTH	SY		1/1/2007		$2.62
0327 70 15	MILLING EXIST ASPH PAVT, 2 3/4" AVG DEPTH	SY		1/1/2007		$2.16
0327 70 16	MILLING EXIST ASPH PAVT, 1/2" AVG DEPTH	SY		1/1/2007		$2.27
0327 70 17	MILLING EXIST ASPH PAVT, 3 1/4" AVG DEPTH	SY		1/1/2007		$3.13
0327 70 18	MILLING EXIST ASPH PAVT, 5 1/2" AVG DEPTH	SY		1/1/2007		$26.50
0327 70 19	MILLING EXIST ASPH PAVT, 3/4" AVG DEPTH	SY		1/1/2007		$1.95
0327 70 20	MILLING EXIST ASPH PAVT, 3 3/4" AVG DEPTH	SY		1/1/2007		$2.14
0327 70 21	MILLING EXIST ASPH PAVT, 7" AVG DEPTH	SY		1/1/2007		$7.50
0327 70 22	MILLING EXIST ASPH PAVT,4 1/4" AVG DEPTH	SY		1/1/2007		$3.27

0327 70 23	MILLING EXIST ASPH PAVT, 6" AVG DEPTH	SY	1/1/2007	$6.86
0327 70 26	MILLING EXISTING ASPHALT PAVEMENT, 4 3/4" AVERAGE DEPTH	SY	1/1/2007	$6.75

334- 1- AA SUPERPAVE ASPHALTIC CONCRETE

Unit TN; MT **Accuracy** 10th of a Ton; 10th of a Metric Ton **PlanQuantity?** no

Notes

Details Consists of using SUPERPAVE asphalt mixture design and analysis test equipment and procedures, Gyratory Compactor to better simulate actual pavement loadings (five different traffic levels available) to provide for a better rut-resistant mix design. Use 110 lb per square yard per 1 inch (24 kg/m2 per 10 mm) lift. Note: Other rates and PG 76-22 Binder may be used only when recommended by District Materials Engineer.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-06

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Approved automated asphalt plant tickets shall be used and submitted as Department records; in case of a malfunction of the automated system, the data shall be hand written on blank plant tickets. Transfer quantity to computation book.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **334- 1- AA** **SUPERPAVE ASPHALTIC CONCRETE** **TN**

AA = Traffic
11 (A)
12 (B)
13 (C)
14 (D)
15 (E)
21 (Traffic A, PG 76-22)
22 (Traffic B, PG 76-22)
23 (Traffic C, PG 76-22)
24 (Traffic D, PG 76-22)
25 (Traffic E, PG 76-22)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0334 1 11	SUPERPAVE ASPHALTIC CONC, TRAFFIC A	TN		1/1/2007		$122.44
0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN		1/1/2007		$94.99
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN		1/1/2007		$95.73
0334 1 14	SUPERPAVE ASPHALTIC CONC, TRAFFIC D	TN		1/1/2007		$96.75
0334 1 15	SUPERPAVE ASPHALTIC CONC, TRAFFIC E	TN		1/1/2007		$92.67
0334 1 21	SUPERPAVE ASPH CONC, TRAF A, PG76-22	TN		1/1/2007		$140.00
0334 1 22	SUPERPAVE ASPH CONC, TRAF B, PG76-22	TN		1/1/2007		$96.18
0334 1 23	SUPERPAVE ASPH CONC, TRAF C, PG76-22	TN		1/1/2007		$102.04
0334 1 24	SUPERPAVE ASPH CONC, TRAF D, PG76-22	TN		1/1/2007		$103.36
0334 1 25	SUPERPAVE ASPH CONC, TRAF E, PG76-22	TN		1/1/2007		$89.65

337- 7- AA ASPHALTIC CONCRETE FRICTION COURSE

Unit TN; MT **Accuracy** 10th of a Ton; 10th of a Metric Ton **PlanQuantity?** no

Notes

Details

The maximum spread rate used for estimating quantities are as follows:
a=5~ FC-5(Rubber): 80 lb/yd2 (44 kg/m2); recommended thickness 3/4 in (20mm)
a=7~ FC-9.5 (Rubber): 110 lb/yd2 (72 kg/m2); recommended thickness 1 in (30mm)
a=6~ FC-12.5 (Rubber): 165 lb/yd2 (96 kg/m2); recommended thickness 11/2 in (40mm)
a=21~ FC-9.5 (PG 76-22): 110 lb/yd2 (72 kg/m2); recommended thickness 1 in (30mm)
a=20~ FC-12.5 (PG 76-22): 165 lb/yd2 (96 kg/m2); recommended thickness 11/2 in (40mm)
a=22~ FC-5 (PG 76-22): 80 lb/yd2 (44 kg/m2); recommended thickness 3/4 in (20mm)

The actual spread rate will be based on the contractor's mix design per specifications. Designers must specify on the Typical Section, the traffic Level for structural Friction Courses FC-9.5 and FC-12.5.
Refer to Pavement Design Manual for additional information.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-06
Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Approved automated asphalt plant tickets shall be used and submitted as Department records; in case of a malfunction of the automated system, the data shall be hand written on blank plant tickets. Transfer quantity to computation book.

References **PPM Chapter**
Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 11, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **337- 7- AA** **ASPHALTIC CONCRETE FRICTION COURSE** **TN**

AA = Type
5 (FC-5, Rubber)
22 (FC-5, PG 76-22)

30 (Traffic B, FC-9.5, Rubber)
31 (Traffic B, FC-12.5, Rubber)
32 (Traffic C, FC-9.5, Rubber)
33 (Traffic C, FC-12.5, Rubber)
35 (Traffic D, FC-12.5, Rubber)

40 (Traffic B, FC-9.5, PG 76-22)
41 (Traffic B, FC-12.5, PG 76-22)
42 (Traffic C, FC-9.5, PG 76-22)
43 (Traffic C, FC-12.5, PG 76-22)
45 (Traffic D, FC-12.5, PG 76-22)

Notes Valid through 6-30-2007:
AA= Type
6 (FC-12.5, Rubber)
7 (FC-9.5, Rubber)
20 (FC-12.5, PG 76 22)
21 (FC-9.5, PG 76-22)

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0337 7 5	ASPHALT CONCRETE FRICTION COURSE- INC BIT/RUBBER, FC-5	TN		1/1/2007		$133.73
0337 7 22	ASPH CONC FRICTION COURSE, INC BIT, FC-5, PG76-22	TN		1/1/2007		$122.14
0337 7 30	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC B, FC-9.5, RUBBER	TN		7/1/2007		$125.15
0337 7 31	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC B, FC-12.5, RUBBER	TN		7/1/2007		$131.78
0337 7 32	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-9.5, RUBBER	TN		7/1/2007		$117.72
0337 7 33	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-12.5, RUBBER	TN		7/1/2007		$112.05
0337 7 35	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC D, FC-12.5, RUBBER	TN		7/1/2007		$100.00
0337 7 40	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC B, FC-9.5, PG 76-22	TN		7/1/2007		$112.87
0337 7 41	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC B, FC-12.5, PG 76-22	TN		7/1/2007		$113.22

0337 7 42	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-9.5, PG 76-22	TN	7/1/2007	$117.75
0337 7 43	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-12.5, PG 76-22	TN	7/1/2007	$116.00
0337 7 45	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC D, FC-12.5, PG 76-22	TN	7/1/2007	$117.73

339- 1- MISCELLANEOUS ASPHALT PAVEMENT

Unit TN; MT **Accuracy** 10th of a Ton; 10th of a Metric Ton **PlanQuantity?** no

Notes

Details Consists of construction of asphalt pavement in areas which will not be subjected to vehicular traffic, such as pavement under guardrail, bicycle paths, median pavement, sidewalks, etc. The pay quantity will be based on the average spread rate or dimensions for the project, limited to a maximum of 105% of the plan quantity. For calculation, use a weight of 100 lb/sy-in (22kg/m2 per 10mm) thickness.

Related Items **Required** **Recommended**

Forms **Design** SBAsphaltMisc COMP 700-050-06

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Approved automated asphalt plant tickets shall be used and submitted as Department records; in case of a malfunction of the automated system, the data shall be hand written on blank plant tickets. Transfer quantity to computation book.

References **PPM Chapter**

Other

Standards Index No. 400 for guardrail applications

Specifications

Prep & Doc Manual Chapter(s) Contact Final Estimates

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **339- 1-** **MISCELLANEOUS ASPHALT PAVEMENT** **TN**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0339 1	MISCELLANEOUS ASPHALT PAVEMENT	TN		1/1/2007		$164.05

340- OPEN GRADED CRACK RELIEF LAYER

Unit TN; MT **Accuracy** 10th of a Ton; 10th of a Metric Ton **PlanQuantity?** no

Notes **HOLD for Future Development; refer to 906-340- item for use with developmental specification**

Details Contact the State Materials Office for assistance with this office.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-06

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Future Effective Date**

Struct. **340-** **OPEN GRADED CRACK RELIEF LAYER** **TN**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

341- 70- ASPHALT RUBBER MEMBRANE INTERLAYER

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Consists of a separate application of asphalt rubber binder covered with a single application of aggregate. Jobs let through 6/04: When this item is used, item 2300- 1- 19 must be used.
Jobs let 7/04 and later: Payment for bituminous material (rubber binder) is incidental to this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **341- 70-** **ASPHALT RUBBER MEMBRANE INTERLAYER** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0341 70	ASPHALT RUBBER MEMBRANE INTERLAYER	SY		1/1/2007		$5.50

350- 1- AA CEMENT CONCRETE PAVEMENT PLAIN

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Consists of placement of plain Portland Cement Concrete pavement and also of construction of pavement joints.
For colored concrete, see 523 items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 305, 560

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **350- 1- AA** **CEMENT CONCRETE PAVEMENT PLAIN** **SY**

AA = thickness
1 (6")
2 (7")
3 (8")
4 (9")
5 (10")
6 (3")
7 (2")
8 (7 1/2")
9 (Var. 7 1/2" Avg.)
10 (12")
11 (13")
12 (11")
13 (11 1/2")
14 (14")
15 (13 1/2")
16 (10 1/2")
17 (8 1/2")
18 (15")

19 (12 1/2")
20 (Var. 9 1/2" Avg.)
21 (Var. 11" Avg.)
22 (Var. 11 1/2" Avg.)
23 (14 1/2")
24 (var 10 1/2" average)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0350 1 1	PLAIN CEMENT CONCRETE PAVEMENT, 6"	SY		1/1/2007		$107.17
0350 1 2	PLAIN CEMENT CONCRETE PAVEMENT, 7"	SY		1/1/2007		$153.10
0350 1 3	PLAIN CEMENT CONCRETE PAVEMENT, 8"	SY		1/1/2007		$140.00
0350 1 4	PLAIN CEMENT CONCRETE PAVEMENT, 9"	SY		1/1/2007		$118.62
0350 1 5	PLAIN CEMENT CONCRETE PAVEMENT, 10"	SY		1/1/2007		$90.00
0350 1 6	PLAIN CEMENT CONCRETE PAVEMENT, 3"	SY		1/1/2007		$60.00
0350 1 8	CEMENT CONCRETE PAVEMENT PLAIN, 7 1/2"	SY		1/1/2007		$0.00
0350 1 9	PLAIN CEMENT CONCRETE PAVEMENT, VARIABLE 71/2" AVERAGE	SY		1/1/2007		$75.00
0350 1 10	PLAIN CEMENT CONCRETE PAVEMENT, 12"	SY		1/1/2007		$190.65
0350 1 11	PLAIN CEMENT CONCRETE PAVEMENT, 13"	SY		1/1/2007		$100.00
0350 1 12	PLAIN CEMENT CONCRETE PAVEMENT, 11"	SY		1/1/2007		$75.00
0350 1 13	PLAIN CEMENT CONCRETE PAVEMENT, 11 1/2"	SY		1/1/2007		$128.00
0350 1 14	PLAIN CEMENT CONCRETE PAVEMENT, 14"	SY		1/1/2007		$91.67
0350 1 15	PLAIN CEMENT CONCRETE PAVEMENT, 13 1/2"	SY		1/1/2007		$80.00
0350 1 16	PLAIN CEMENT CONCRETE PAVEMENT, 10 1/2"	SY		1/1/2007		$78.03
0350 1 19	PLAIN CEMENT CONCRETE PAVEMENT, 12 1/2"	SY		1/1/2007		$100.00
0350 1 20	PLAIN CEMENT CONCRETE PAVEMENT, VARIABLE 9 1/2" AVERAGE	SY		1/1/2007		$60.00
0350 1 21	PLAIN CEMENT CONCRETE PAVEMENT, VARIABLE 11" AVERAGE	SY		1/1/2007		$70.00
0350 1 22	PLAIN CEMENT CONCRETE PAVEMENT, VAR 11 1/2" AVG	SY		1/1/2007		$75.00

0350 1 23	PLAIN CEMENT CONCRETE PAVEMENT, 14 1/2"	SY	1/1/2007	$73.50

350- 2- AA CEMENT CONCRETE PAVEMENT, REINFORCED

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Consists of placement of steel reinforced Portland Cement Concrete pavement and also of construction of pavement joints, as described in Section 350.

For fiber reinforced concrete, contact the State Pavement Design Office.
For colored concrete, see 523 items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 305, 560

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **350- 2- AA** **CEMENT CONCRETE PAVEMENT, REINFORCED** **SY**

AA = thickness
1 (6")
2 (7")
3 (8")
4 (9")
5 (10")
6 (3")
7 (2")
9 (Var. 7 1/2" Avg.)
10 (12")
11 (13")
12 (11")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0350 2 1	CEMENT CONC PAVT REINFORCED, 6"	SY		1/1/2007		$77.30
0350 2 3	CEMENT CONC PAVT REINFORCED, 8"	SY		1/1/2007		$115.33
0350 2 4	CEMENT CONC PAVT REINFORCED, 9"	SY		1/1/2007		$120.00
0350 2 10	CEMENT CONC PAVT REINFORCED,12"	SY		1/1/2007		$232.14
0350 2 12	CEMENT CONC PAVT REINFORCED,11"	SY		1/1/2007		$232.14
0350 2 13	CEMENT CONC PAVT REINFORCED,14"	SY		1/1/2007		$232.14

350- 72- CLEANING & RESEALING JOINTS IN CONCRETE PAVEMENT

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Longitudinal and transverse joints must be summarized. This item to be used on existing concrete pavement only.
DO NOT Use on bridge structures; refer to item 400-12.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 305

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **350- 72-** **CLEANING & RESEALING JOINTS IN CONCRETE PAVEMENT** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0350 72	CLEANING & RESEALING JOINTS-CONCRETE PAVEMENT	LF		1/1/2007		$1.90

350- 78- CLEANING AND SEALING RANDOM CRACKS IN CONCRETE PAVEMENT

Unit LF; M1 **Accuracy** Linear Foot; 10th of a **PlanQuantity?** no

Meter

Notes

Details Longitudinal and transverse joints must be summarized. This item to be used on existing concrete pavement only.
DO NOT Use on bridge structures; refer to Section 400 items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **350- 78-** **CLEANING AND SEALING RANDOM CRACKS IN CONCRETE PAVEMENT** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0350 78	CLEANING & SEALING RANDOM CRACKS IN CONCRETE PAV'T	LF		1/1/2007		$3.62

352- 70- GRINDING CONCRETE PAVEMENT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details This item to be used on existing concrete pavement only. Grinding of new concrete pavement included in the bid price for Cement Concrete Pavement.
DO NOT Use on bridge structures; refer to Section 400 items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **352- 70-** **GRINDING CONCRETE PAVEMENT** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0352 70	GRINDING CONCRETE PAVEMENT	SY		1/1/2007		$3.43

353- 70- CONCRETE PAVEMENT SLAB REPLACEMENT

Unit CY; M3 **Accuracy** 10th of a Cubic Yard; 10th of a Cubic Meter **PlanQuantity?** no/yes*

Notes **Effective July 2008 letting, measurement will be plan quantity, per specification.**

Details For use on existing Concrete Pavement roadways only.

NOTE: Method of measurement change, per specifications. For projects let through 6/2008, method of measurement will be quantity, as placed. For projects let 7/2008 and later, method of measurement will be by plan quantity.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 305, 308

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **353- 70-** **CONCRETE PAVEMENT SLAB REPLACEMENT** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0353 70	CONCRETE PAVEMENT SLAB REPLACEMENT	CY		1/1/2007		$679.32

370- 1- BRIDGE APPROACH EXPANSION JOINT

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Consists of the construction of special expansion joints for concrete pavement near the bridge approach slabs. These joints contain a section of reinforced concrete subslab supporting the concrete pavement, and a portion of the pavement over the subslab interrupted by a galvanized sheet metal strip.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 306

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **370- 1-** **BRIDGE APPROACH EXPANSION JOINT** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0370 1	BRIDGE APPROACH EXPANSION JOINT	LF		1/1/2007		$232.49

BOE

Basis of Estimates

Chapter 14

Items 400 to 499

State Specifications and Estimates Office
Estimating Systems Support Section

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400- -ALL	Class NS, I, II, III, IV, V, VI Details

Unit CY; M3 **Accuracy** 10th of a Cubic Yard; 10th of a Cubic Meter **PlanQuantity?** yes/no

Notes

NOTES BELOW ARE FOR CLASS NS, I, II, III, IV, and V, VI Concrete:

Class NS effective July 2009, pending specification and standards changes

Details

No separate payment made for deck scuppers, poured expansion joints, deck control joints, preformed anchor bolt holes, plain neoprene bearing pads. These items are included in the cost of the concrete.

Reinforcement steel may be incidental to the cost of the concrete; refer to Section 400 of the specifications. Reinforcement is incidental for concrete jackets on steel piles, steel in barriers, traffic separators, and parapets. For Gravity Walls, reinforcement steel is incidental to cost of concrete.

Include quantity block in plans by component (except for misc. concrete). Mass concrete should be broken out in the quantity block separately. See SDG's 3.9. When component is phased, break down quantity by phase.
Concrete quantity is PLAN QUANTITY (except for misc. concrete). See Section 400-22.2.2 of the Specifications.

ENDWALLS: Refer to Design Standards for correct class of concrete and other payment details. For some U-endwalls, payment is made under 430 items. For Index 250, reinforcing steel is included in cost of concrete.

Misc Concrete: Estimate 5 CY (5 M3) minimum. PENDING: To be replaced by Class NS concrete or other non-concrete items, to which concrete is incidental. Valid through July 2009?

Precast Deck Overlay: consists of Class IV with steel fiber reinforcement and low shrinkage admixtures. Coordinate Use of this item with the State Structures Design Office. Requires modified specifications.

Class III: When it is not practical to dewater land pier footings, show seal concrete in the plans. For water piers, both waterline and mud line footings require seal concrete to be shown in the plans. See SDG's 3.7.

Superstructure Light-Weight Concrete requires plan notes and/or a TSP for unit weight, aggregate requirements, etc.

Low Shrink Deck Concrete requires a TSP.

Self-Consolidating Concrete requires a Tech Spec. Coordinate this specification with the State Structures Design Office.

Counterweight Concrete may require plan notes and/or a TSP for unit weight, aggregate requirements, etc.

Concrete for bascule bridge pier should be paid for under Substructure or Mass-Substructure pay items. See SDG's 3.9.

Clearly delineate limits of microsilica concrete in the plans. Clearly delineate limits of calcium nitrite in the plans. CIP concrete requiring calcium nitrite should be paid for using the normal concrete pay item. See SDG's 1.4.2.

Class VI: Coordinate the use of these items with the State Structures Design Office.

ORIGINAL MEASUREMENT:
ALL, Except MISC: Detailed calculations are required in the computation book, calculate carefully to reflect actual scope of work. PLAN QUANTITY will be basis of payment to the Contractor.
MISC: Detailed calculations are required in computation book.
FINAL:
ALL, Except MISC: No calculations required unless item is to be adjusted. Final pay quantity will be PLAN QUANTITY with proper considerations for Specification tolerances.
MISC: Final measurements should be recorded in field book showing detailed calculations. (Refer to subarticle 400-20.2.2 in the specifications.) Transfer final quantity to proper form in computation book.

Related Items **Required** **Recommended** 415- 1- A

Forms **Design** SHTabQuant COMP 700-050-04/07

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.2, Cofferdams and Seals SDG's 3.7.

Standards Index Numbers:
APPROACH SLABS: 20900, 20910
CIP Retaining Wall: 5100
CULVERTS: 290
ENDWALLS: 245, 250, 251, 252, 253, 255, 261, 264, 266, 282, 295
MISC: 270, 280, 286, 287
GRAVITY WALL: 520
RET WALLS: 5000 series

Specifications 346, 400

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. 400- -ALL Class NS, I, II, III, IV, V, VI Details CY

AAA = Applications, Valid Class(es)
1 (Culverts) Class I, II, IV
2 (Endwalls) Class I, II, IV
4 (Superstructure) Class II, IV
5 (Substructure) Class II, IV
6 (Counterweight) Class IV
8 (Bulkhead) Class IV
10 (Approach Slabs) Class II
11 (Retaining Walls) Class NS: Gravity Wall, Index 520; Class II: Gravity Wall w/ junction slab, Index 520
12 (Trench Slabs) Class II
13 (Concrete Steps) Class NS: Index 521 **New item effective 7/09 letting***
15 (Miscellaneous) **Valid through ???**
20 (Seal) Class III
22 (Superstructure Closure Joint) Class ??
25 (Mass- Substructure) Class ??

39 (Precast Segmental Superstructure) Class IV, V, VI
40 (Precast Segmental Substructure) Class IV, V
41 (Precast Deck Overlay) Class IV with steel fiber reinforcement & low shrink admixtures
42 (Substructure Self-Consolidating Concrete) Class VI, Tech Spec required
43 (Superstructure Self-Consolidating Concrete) Class VI, Tech Spec required
104 (Superstructure Light-Weight) Class ??
105 (Superstructure Special) Class ??
106 (Microsilica Substructure) Class V
107 (Microsilica Substructure-Mass) Class V
239 (Low Shrink Deck) Material Only, Class V

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

400- 0-AAA	**CLASS NS CONCRETE**			
	Unit CY; M3	**Accuracy**	10th of a Cubic Yard; 10th of a Cubic Meter	**PlanQuantity?** yes/no
Notes	**Effective July 2009 ??, pending Specification**			
Details	Refer to 400- -ALL for details on all classes of concrete			
Related Items	**Required**		**Recommended** 415- 1- A	
Forms	**Design**	SHTabQuant	COMP 700-050-04/07	
	Construction	Refer to Comp Book		
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.		
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).		
References	**PPM Chapter**			
	Other	Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.2, Cofferdams and Seals SDG's 3.7.		
	Standards	Refer to 400- -ALL for details on all classes of concrete		
	Specifications	346, 400		
	Prep & Doc Manual Chapter(s)	6, 7, 13		

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400- 0-AAA** **CLASS NS CONCRETE** **CY**

AAA = Class 0 Applications
11 (Gravity Wall), Index 520 **Effective 7/2009**
13 (Concrete Steps) Index 521 **Effective 7/2009**

Notes CLASS NS: DO NOT OPEN until specifications & standards are approved

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

400- 1-AAA	**CLASS I CONCRETE**			
	Unit CY; M3	**Accuracy**	10th of a Cubic Yard; 10th of a Cubic Meter	**PlanQuantity?** yes/no
Notes				
Details	Refer to 400- -ALL for details on all classes of concrete			

Related Items **Required** **Recommended** 415- 1- A

Forms **Design** SHTabQuant COMP 700-050-04/07

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.2, Cofferdams and Seals SDG's 3.7.

Standards Refer to 400- -ALL for details on all classes of concrete

Specifications 346, 400

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400- 1-AAA** **CLASS I CONCRETE** **CY**

AAA = Class I Applications
1 (Culverts)
2 (Endwalls) Index 250, 264, 266, 282
11 (Retaining Walls) Gravity Wall, Index 520 **Valid through 6-30-2009; replaced by Class NS Gravity Wall**
15 (Miscellaneous) **Valid through ??**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400 1 1	CONCRETE CLASS I, CULVERTS	CY		1/1/2007		$850.00
0400 1 2	CONCRETE CLASS I, ENDWALLS	CY		1/1/2007		$1,018.45
0400 1 5	CONCRETE CLASS I, SUBSTRUCTURE	CY		1/1/2007		$200.00
0400 1 11	CONCRETE CLASS I, RETAINING WALLS	CY		1/1/2007		$529.50
0400 1 15	CONCRETE CLASS I, MISCELLANEOUS	CY		1/1/2007		$613.39
0400 1 25	CONC CLASS , MASS SUBSTRUCTURE	CY		1/1/2007		$200.00

400- 2-AAA CLASS II CONCRETE

Unit CY; M3 **Accuracy** 10th of a Cubic Yard; 10th of a Cubic Meter **PlanQuantity?** yes/no

Notes

Details Refer to 400- -ALL for details on all classes of concrete

Related Items **Required** **Recommended** 415- 1- A

Forms **Design** SHTabQuant COMP 700-050-04/07

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form

(comp book).

References **PPM Chapter**

Other Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.2, Cofferdams and Seals SDG's 3.7.

Standards Refer to 400- -ALL for details on all classes of concrete

Specifications 346, 400

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400- 2-AAA** **CLASS II CONCRETE** **CY**

AAA = Class II Applications
1 (Culverts)
2 (Endwalls) Index 251, 252, 253, 255; NOT Index 260 or 261
4 (Superstructure)
5 (Substructure)
10 (Approach Slabs)
11 (Retaining Walls) Gravity Wall w/ junction slab, Index 520
12 (Trench Slabs)
15 (Miscellaneous) **Valid through ???**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400 2 1	CONCRETE CLASS II, CULVERTS	CY		1/1/2007		$845.33
0400 2 2	CONCRETE CLASS II, ENDWALLS	CY		1/1/2007		$1,613.78
0400 2 4	CONC CLASS II, SUPERSTRUCTURE	CY		1/1/2007		$840.68
0400 2 5	CONCRETE CLASS II, SUBSTRUCTURE	CY		1/1/2007		$1,293.04
0400 2 8	CONCRETE CLASS II, BULKHEAD	CY		1/1/2007		$749.87
0400 2 10	CONCRETE CLASS II, APPROACH SLABS	CY		1/1/2007		$405.70
0400 2 11	CONCRETE CLASS II, RETAINING WALLS	CY		1/1/2007		$1,056.29
0400 2 12	CONCRETE, CLASS II, TRENCH SLAB	CY		1/1/2007		$1,433.33
0400 2 15	CONCRETE CLASS II, MISCELLANEOUS	CY		1/1/2007		$639.26
0400 2 25	CONCRETE CLASS II, MASS, SUBSTRUCTURE	CY		1/1/2007		$825.03

400- 3-AAA CLASS III CONCRETE

Unit CY; M3 **Accuracy** 10th of a Cubic Yard; 10th of a Cubic Meter **PlanQuantity?** yes/no

Notes

Details Refer to 400- -ALL for details on all classes of concrete

Related Items **Required** **Recommended** 415- 1- A

Forms **Design** SHTabQuant COMP 700-050-04/07

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.2, Cofferdams and Seals SDG's 3.7.

Standards Refer to 400- -ALL for details on all classes of concrete

Specifications 346, 400

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400- 3-AAA** **CLASS III CONCRETE** **CY**

AAA = Class III Applications
15 (Miscellaneous) **Valid through ???**
20 (Seal) Class III

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400 3 1	CONCRETE CLASS III, CULVERTS	CY		1/1/2007		$750.00
0400 3 8	CONCRETE CLASS III, BULKHEAD	CY		1/1/2007		$1,000.00
0400 3 15	CONC CLASS III, MISCELLANEOUS	CY		1/1/2007		$2,300.00
0400 3 20	CONC CLASS III, SEAL	CY		1/1/2007		$840.24

400- 4-AAA CLASS IV CONCRETE

Unit CY; M3 **Accuracy** 10th of a Cubic Yard; 10th of a Cubic Meter **PlanQuantity?** yes/no

Notes

Details Refer to 400- -ALL for details on all classes of concrete
Class IV normally used for aggressive environments.

Related Items **Required** **Recommended** 415- 1- A

Forms **Design** SHTabQuant COMP 700-050-04/07

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.2, Cofferdams and Seals SDG's 3.7.

Standards Refer to 400- -ALL for details on all classes of concrete

Specifications 346, 400

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400- 4-AAA** **CLASS IV CONCRETE** **CY**

AAA = Class IV Applications
1 (Culverts)
2 (Endwalls)
4 (Superstructure)
5 (Substructure)
6 (Counterweight)
8 (Bulkhead)
15 (Miscellaneous) **Valid through ???**
41 (Precast Deck Overlay) w/admixtures

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400 4 1	CONCRETE CLASS IV, CULVERTS	CY		1/1/2007		$840.96
0400 4 2	CONCRETE CLASS IV, ENDWALLS	CY		1/1/2007		$781.29
0400 4 4	CONCRETE CLASS IV, SUPERSTRUCTURE	CY		1/1/2007		$1,161.33
0400 4 5	CONCRETE CLASS IV, SUBSTRUCTURE	CY		1/1/2007		$904.68
0400 4 6	CONCRETE CLASS IV, COUNTERWEIGHT	CY		1/1/2007		$450.00
0400 4 8	CONC CLASS IV, BULKHEAD	CY		1/1/2007		$968.66
0400 4 11	CONC CLASS IV, RETAINING WALLS	CY		1/1/2007		$821.34
0400 4 15	CONC CLASS IV, MISCELLANEOUS	CY		1/1/2007		$662.79
0400 4 22	CONCRETE, CLASS IV, SUPERSTRUCTURE - CLOSURE JOINT	CY		1/1/2007		$650.00
0400 4 25	CONCRETE CLASS IV, MASS, SUBSTRUCTURE	CY		1/1/2007		$905.34
0400 4 39	CONCRETE CLASS IV, PRECAST SEGMENTAL, SUPSTRUCTURE	CY		1/1/2007	12/31/2013	$600.00
0400 4 40	CONCRETE CLASS IV, PRECAST SEGMENTAL, SUBSTRUCTURE	CY		1/1/2007	12/31/2013	$600.00
0400 4 41	CONCRETE CLASS IV, PRECAST DECK OVERLAY	CY		1/1/2007		$600.00
0400 4104	CONC CLASS IV, SUPERSTRUCTURE, LT-WT	CY		1/1/2007		$1,350.00

400- 6- PRECAST ANCHOR BEAMS

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for Precast Tie Back anchors for use in anchored wall systems. Include in anchored wall quantity block in plans

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400- 6-** **PRECAST ANCHOR BEAMS** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400 6	PRECAST ANCHOR BEAMS	EA		1/1/2007		$1,107.14

400- 7- BRIDGE DECK GROOVING- DECK THICKNESS LESS THAN 8.5"

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Item intended for cases where deck profilograph and planing is not required by specification. When rigid approach slab is utilized, include approach slab area only. Quantity based on area bound by bridge gutter lines, begin/end of bridge or begin/end approach slab (if not covered by asphalt wearing surface).

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-01
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other	SDG's 4.2	
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 7-** **BRIDGE DECK GROOVING- DECK THICKNESS LESS THAN 8.5"** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400 7	BRIDGE DECK GROOVING, LESS THAN 8.5"	SY		1/1/2007		$3.10

400- 8-AAA CLASS V CONCRETE

Unit CY; M3 **Accuracy** 10th of a Cubic Yard; 10th of a Cubic Meter **PlanQuantity?** yes/no

Notes

Details Refer to 400- -ALL for details on all classes of concrete

Related Items **Required** **Recommended** 415- 1- A

Forms **Design** SHTabQuant COMP 700-050-04/07

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Mass Concrete SDG's 3.9, Class and Admixtures SDG's 1.4.2, Cofferdams and Seals SDG's 3.7.

Standards Refer to 400- -ALL for details on all classes of concrete

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400- 8-AAA** **CLASS V CONCRETE** **CY**

AAA = Class V Applications
39 (Precast Segmental Superstructure)
40 (Precast Segmental Substructure)
106 (Microsilica Substructure)
107 (Microsilica Substructure-Mass)
239 (Low Shrink Deck) Material Only

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400 8 5	CONCRETE CLASS V, SUBSTRUCTURE	CY	T	1/1/2007		$449.48
0400 8 22	CONCRETE CLASS V, SUPER STRUCTURE CLOSURE JOINT	CY	T	1/1/2007		$1,700.00
0400 8 25	CONC CLASS V MASS - SUBSTRUCTURE	CY	T	1/1/2007		$0.00
0400 8 39	CONCRETE CLASS V, PRECAST SEGMENTAL SUPERSTRUCTURE	CY	T	1/1/2007		$1,466.00

0400 8106	CONCRETE CLASS V, MICROSILICA SUBSTRUCTURE	CY	T	1/1/2007	$4,873.00
0400 8107	CONC CLASS V, MICROSILICA SUBSTRUCTURE MASS	CY		1/1/2007	$0.00

400- 9- BRIDGE DECK GROOVING AND PLANING- DECK THICKNESS 8.5" or GREATER

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Item intended for cases where deck profilograph, and planing is required by specification. When rigid approach slab is utilized, include approach slab area. Quantity based on area bound by bridge gutter lines, begin/end of bridge or begin/end approach slab (if not covered by asphalt wearing surface).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's 4.2

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 9-** **BRIDGE DECK GROOVING AND PLANING- DECK THICKNESS 8.5" or GREATER** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400 9	BRIDGE DECK GROOVING & PLANING, DECK 8.5"&>	SY		1/1/2007		$5.20

400- 16-AAA Class VI Concrete

Unit CY; M3 **Accuracy** 10th of a Cubic Yard; 10th of a Cubic Meter **PlanQuantity?**

Notes

Details Refer to 400- -ALL for details on all classes of concrete

Related Items **Required** **Recommended** 415- 1- A

Forms **Design**

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Refer to 400- -ALL for details on all classes of concrete
	Specifications	
		Plan Detail and/or Tech Spec Required
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 16-AAA** **Class VI Concrete** **CY**

AAA = Application
22 (Superstructure Closure Joint)
25 (Mass- Substructure)
39 (Precast Segmental Superstructure)
42 (Substructure Self-Consolidating Concrete)
43 (Superstructure Self-Consolidating Concrete)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400 16 22	CONCRETE, CLASS VI, SUPERSTRUCTURE - CLOSURE JOINT	CY		1/1/2008		$650.00
0400 16 25	CONCRETE CLASS VI, MASS, SUBSTRUCTURE	CY		1/1/2008		$852.45
0400 16 39	CONCRETE CLASS VI, PRECAST SEG SUPERST	CY		1/1/2008		$852.45
0400 16 42	CONCRETE CLASS VI, SUBSTRUCTURE SELF-CONSOLIDATING CONCRETE	CY	T	1/1/2008		$950.00
0400 16 43	CONCRETE CLASS VI, SUPERSTRUCTURE SELF-CONSOLIDATING CONCRETE	CY	T	1/1/2008		$950.00

400- 20- GRINDING BRIDGE DECK- REHABILITATION ONLY

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes	**Estimates Support: Contact the State Structures Design Office before opening item**		
Details	For use on bridge rehabilitation projects only.		
Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-01
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 20-** **GRINDING BRIDGE DECK- REHABILITATION ONLY** **SY**

Notes Estimates Support: Contact the State Structures Design Office before opening item

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

400- 32- CONCRETE FOR JOINT REPAIR

Unit CY; M3 **Accuracy** 10th of a Cubic Yard; 10th of a Cubic Meter **PlanQuantity?** yes

Notes

Details Intended for rehabilitation or widening projects to repair or replace concrete deck at expansion joints. Include in Quantity Block in Plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References
PPM Chapter
Other SDG's 6.4
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 32-** **CONCRETE FOR JOINT REPAIR** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400 32	CONCRETE FOR JOINT REPAIR	CY	T	1/1/2007		$9,231.11

400- 60- A CATHODIC PROTECTION- ELECTRICAL WORK

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?**

Notes

Details

Intended for Electrical Work associated with Cathodic Protection. 3 pay items (power, conduit, and equipment, as described below) are needed for a complete electrical system. Use with either 400-142 Cathodic Protection (CP) of mass concrete productis , 455-81 CP for piles, or 457 items- CP for integral pile jackets. Contact the Materials Lab for assistance with using this item.

AC or DC POWER SOURCE ASSEMBLY: Includes all work and materials for providing power to the Cathodic Protection System. For AC assemblies, this includes all costs associated with connection between system and external power source. For DC assemblies, includes solar panels, batteries, incidentals, and wiring necessary to provide power.

CONDUIT: Includes all conduit from power source assembly to end location(s), junction boxes, wiring, and all incidentals. Measure as the length of conduit from the power system, along the bridge, and down each pier to be protected.

EQUIPMENT & INSTRUMENTATION: Lump sum item to include all remaining items necessary for a complete system. Detail major equipment, by location, in the plans or Tech Specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 400-142, 455-81, or 457 items. **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **400- 60- A** **CATHODIC PROTECTION- ELECTRICAL WORK** **LS/LS**

A= Components (Select only 1 power source assembly; use with BOTH A= 3 and 4)

1 (AC Power Source Assembly) LS
2 (DC Power Source Assembly) LS
3 (Conduit, Wiring, and Accessories) LS/LF
4 (Equipment & Instrumentation) LS

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400 60 1	CATHODIC PROTECTION - ELECTRICAL WORK, AC POWER SOURCE ASSEMBLY	LS	T	1/1/2007		$361,036.79
0400 60 3	CATHODIC PROTECTION - ELECTRICAL WORK, CONDUIT, WIRING, AND ACCESSORIES	LS	T	1/1/2007		$28.87
0400 60 4	CATHODIC PROTECTION - ELECTRICAL WORK, EQUIPMENT & INSTRUMENTATION	LS	T	1/1/2007		$272,416.45

400- 72- PRECAST BULKHEAD PANELS

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** yes

Notes

Details

Intended for precast panels used as part of a soldier pile wall system.
Pay Item note recommended; coordinate with specifications. Add pay item note similar to concrete sheet piles (Spec. 455-9.4 and 455-12.7) to include cost of trenching, preformed holes in cost of precast panels. Include in Soldier Wall Quantity Block in Plans.
May require specification modifications as follows: 455-5.15.2 and 455-5.15.3 Placement Tolerances (+/-1") and Batter Tolerances (1/8 in/ft)

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended** 455-34- AA

Forms **Design** SHTabQuant COMP 700-050-01
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Other SDG's 3.12.9 and Figure 3-13.
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 72-** **PRECAST BULKHEAD PANELS** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400 72	PRECAST BULKHEAD PANELS	SF	T	1/1/2007		$35.08

400- 91- DEWATERING FOR SPREAD FOOTINGS

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details

Required on all spread footing projects where dewatering is anticipated due to high water table. Include in Footing Quantity Block in Plans.
Usually used with Pay Items 400-4-25, 400-2-25, 415-1-4. Include Pay Item 125-1 only when additional excavation is required below bottom of footing elevation.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 91-** **DEWATERING FOR SPREAD FOOTINGS** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400 91	DEWATERING FOR SPREAD FOOTINGS	EA	T	1/1/2007		$5,250.00

400- 95- A COFFERDAM

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details Intended to construct/dewater cofferdams. Cofferdams may be required to construct or demolish mud line footings located in the waterway. This pay item is not to be utilized when full containment structures are required due to special environmental turbidity requirements, or when a pier footing is located at the shoreline making dewatering difficult. Do not use for waterline or slightly submerged footings.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 400- 3- 20 **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's 3.7.

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 95- A** **COFFERDAM** **EA**

A =
1 (Bascule Pier)
2 (Control House)
3 (Special)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400 95 1	COFFERDAM, BASCULE PIER	EA	T	1/1/2007		$1,700,000.00
0400 95 3	COFFERDAM, SPECIAL	EA	T	1/1/2007		$0.00

400- 97- COATING CONCRETE SURFACES- REHAB

Unit LS/SF; LS/M2 **Accuracy** Lump Sum (Square Foot); Lump Sum (Square Meter) **PlanQuantity?** yes

Notes

Details Intended on rehabilitation projects to apply coating systems onto existing concrete surfaces such as epoxy or bituminous protection coatings. Cost usually covers the labor. Material costs covered under separate pay item. Show location. Pay item note recommended. Do not use with Item 400-143.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 400-134 **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400- 97-** **COATING CONCRETE SURFACES- REHAB** **LS/SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400 97	COATING CONCRETE SURFACES-REHAB	LS	T	1/1/2007		$0.82

400-113- PRECAST BENT CAPS (END)

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Intended for prefabricated end bent caps (furnish and install). Include in End Bent Quantity Block in Plans. Address cost of connection to piles and flowable fill (or similar) required to fill under finished cap.
Tech Spec or Plan note may be necessary to address connection to piles.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-113-** **PRECAST BENT CAPS (END)** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

400-114- PRECAST BENT CAPS (INT)

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Intended for prefabricated bent caps (furnish and install). Include in Bent Cap Quantity Block in Plans. TSP or plan notes may be necessary to address connection to piles.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-114-** **PRECAST BENT CAPS (INT)** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

400-128- GROUTING PRECAST DECK PANELS (NON-SHRINK GROUT)

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Intended for grouting the keyways of precast deck panels for both new and rehabilitation projects. On rehabilitation projects, include pay item notes to address payment of the various work items involved.
TSP may be required on rehabilitation projects to address removal of existing asphalt overlay, removal and preparation of existing keyways, grouting of keyways, post-tensioning and new overlay requirements.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-128-** **GROUTING PRECAST DECK PANELS (NON-SHRINK GROUT)** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400128	GROUTING PRECAST DECK PANELS (NON-SHRINK GROUT)	LF		1/1/2007		$0.00

400-134- EPOXY MATERIAL- STRUCTURES REHAB

Unit GA; LI **Accuracy** Gallon; Liter **PlanQuantity?** no

Notes **Valid through 12-31-08; replaced by 411-1**

Details Intended on rehabilitation projects for epoxy material to coat existing concrete surfaces. Cost of labor usually paid for under 400-97 or 400-135. Show location in plans. Pay item

note recommended.

Related Items **Required** 400-97 or 400-135 **Recommended**

Forms **Design** SHTabQuant COMP 700-050-06

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-134-** **EPOXY MATERIAL- STRUCTURES REHAB** **GA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400134	EPOXY MATERIAL- STRUCTURES REHAB	GA	T	1/1/2007	12/31/2008	$127.38

400-135- INJECT AND SEAL CRACKS- STRUCTURES REHAB

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **Valid through 12-31-08; replaced by 411-2**

Details Intended for Rehabilitation Projects to Epoxy Inject and Seal Cracks in Existing Concrete Components. Item intended to Cover Labor. Item 400-134 Intended to cover material. Show locations w/ quantity block in plans.

Related Items **Required** 400-134 **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-135-** **INJECT AND SEAL CRACKS- STRUCTURES REHAB** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400135	CRACKS INJECT & SEAL-STRUCTURES REHAB	LF	T	1/1/2007	12/31/2008	$13.97

400-136- EPOXY CONCRETE OVERLAY- STRUCTURES REHAB

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Used for rehabilitation of existing bridges. Item includes all costs for shotblasting deck, cleaning deck surface, testing cohesion, furnishing & installing epoxy overlay wearing surface. Contact State Structures Office for assistance.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-136-** **EPOXY CONCRETE OVERLAY- STRUCTURES REHAB** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400136	EPOXY CONCRETE OVERLAY-STRUCTURES REHAB	SY	T	1/1/2007		$35.48

400-140- A NEOPRENE PAD REPLACEMENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for rehabilitation and widening projects to replace existing damaged pads. Show locations w/ quantity block in plans. Include pay item note to include cost of neoprene pads, jacking bridge, disposal of old pads, and all other labor and materials required to replace existing bearing incidental to cost of this item.
For Composite pads, refer to pay item 400-417.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 6.5

Standards Index No. 20500, 20501

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-140- A** **NEOPRENE PAD REPLACEMENT** **EA**

A =
1 (Bent / Pier)
2 (Abutment)
3 (Box Pier)
4 (Trestle Pier)
5 (V - Pier)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400140 1	NEOPRENE PAD REPLACEMENT, BENT/PIER	EA	T	1/1/2007		$2,862.38
0400140 2	NEOPRENE PAD REPLACEMENT, ABUTMENT	EA	T	1/1/2007		$1,184.33

400-142- A CATHODIC PROTECTION SYSTEM

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** no

Notes

Details Intended for rehabilitation projects when galvanic or impressed current cathodic systems are used for mass concrete or structural components. Contact State Materials Office, Corrosion Lab for assistance in use of this item. Show locations in plans w/ quantity block.

Use Item 400-60 for Electrical Work associated with this item.

DO NOT USE this item for Pile or Pile Jacket Cathodic Protection. See 455-81 (pile) or 457-71 (pile jacket) for other Cathodic Protection items.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 400- 60- A **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-142- A** **CATHODIC PROTECTION SYSTEM** **SF**

A =
3 (Zinc Aluminum Spray)
4 (Zinc Aluminum Sheets)
7 (Titanium Mesh) effective 7/1/06
8 (Titanium Bars) effective 7/1/06
9 (Other) effective 7/1/06

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400142 3	CATHODIC PROTECTION SYSTEM, ZINC ALUMINUM SPRAY	SF	T	1/1/2007		$21.88
0400142 4	CATHODIC PROTECTION SYSTEM, ZINC ALUMINUM SHEETS	SF	T	1/1/2007		$322.50
0400142 7	CATHODIC PROTECTION SYSTEM, TITANIUM MESH	SF	T	1/1/2007		$51.35

400-143- CLEANING AND COATING CONCRETE SURFACES, CLASS 5

Unit SF; M2 **Accuracy** Square Foot; 10th of a **PlanQuantity?** yes

Square Meter

Notes

Details This item is used on bridge widening jobs for applying a class 5 finish coating to existing concrete surfaces or where existing bridges/walls within the limits of a project require a class 5 finish coating.
Show locations in plans w/ quantity block.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-143-** **CLEANING AND COATING CONCRETE SURFACES, CLASS 5** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400143	CLEANING & COATING CONCRETE SURFACE, CLASS 5	SF		1/1/2007		$1.52

400-145- A CLEANING CONCRETE SURFACE

Unit LS/SF; LS/M2 **Accuracy** Lump Sum (Square Foot); Lump Sum (Square Meter) **PlanQuantity?** yes

Notes

Details Intended for cleaning existing class 5 finish coating of existing bridge. Show locations in plans w/ quantity block. Include pay item note in plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **400-145- A** **CLEANING CONCRETE SURFACE** **LS/SF**

A = location
Blank (Above Water)
1 (Underwater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400145	CLEANING CONCRETE SURFACE	SF	T	1/1/2007		$0.85

400-147- COMPOSITE NEOPRENE PADS

Unit CF; M3 **Accuracy** 10th of a Cubic Foot; 100th of a Cubic Meter **PlanQuantity?** no

Notes

Details Intended for composite (steel reinforced) neoprene bearing pads for bridges. Include cost of plain neoprene bearing pads in cost of concrete superstructure component. Add pay item note for this case. Show locations in plans w/ quantity block.
For replacement of neoprene pads, refer to pay item 400-140.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 6.5

Standards Index No. 20500, 20501

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **400-147-** **COMPOSITE NEOPRENE PADS** **CF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400147	COMPOSITE NEOPRENE PADS	CF		1/1/2007		$1,051.02

400-153- NON SHRINK GROUT- MISCELLANEOUS

Unit CF; M3 **Accuracy** 10th of a Cubic Foot; 100th of a Cubic Meter **PlanQuantity?** no

Notes

Details For rehabilitation/widening projects only. Use 10.0 CF (0.03 M3) as a minimum quantity. Show locations in plans w/ quantity block. Include pay item note in plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **400-153-** **NON SHRINK GROUT- MISCELLANEOUS** **CF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0400153	NON SHRINK GROUT, F&I, MISCELLANEOUS- STRUCTURES REHAB	CF	T	1/1/2007		$166.97

401- 70- A RESTORE SPALLED AREAS

Unit CF; M3 **Accuracy** 10th of a Cubic Foot; 100th of a Cubic Meter **PlanQuantity?** no

Notes

Details Used on rehabilitation projects to cover costs of patching existing concrete spalls. Show

locations in plans w/ quantity block. Include pay item note in plans. Cost includes cost of preparation, labor and material of concrete patch.
Use 10.0 CF (1.00 M3) as a minimum quantity.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-04
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	6, 7, 13	

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 401- 70- A RESTORE SPALLED AREAS CF

A =
1 (Epoxy)
2 (Latex Modified Mortar - Styrene-Butadiene)
3 (Latex Modified Mortar - Acrylic)
4 (Portland Cement Grout)
5 (Contractors Option)
6 (Thermosetting Polymer Concrete)
Blank (Gunite)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0401 70	RESTORE SPALLED AREAS, GUNITE	CF	T	1/1/2007		$239.98
0401 70 1	RESTORE SPALLED AREAS, EPOXY	CF	T	1/1/2007		$667.10
0401 70 2	SPALLED AREAS RESTORE, LATEX MODIFIED MOTAR, STYRENE-BUTADIENE	CF	T	1/1/2007		$507.50
0401 70 3	SPALLED AREAS RESTORE, LATEX MODIFIED MOTAR, ACRYLIC	CF	T	1/1/2007		$550.00
0401 70 4	RESTORE SPALLED AREAS, PORTLAND CEMENT GROUT	CF	T	1/1/2007		$555.44
0401 70 5	RESTORE SPALLED AREAS, CONTRACTORS OPTION	CF	T	1/1/2007		$544.92

0401 70 6	SPALLED AREAS RESTORE, THERMOSETTING POLYMER CONC	CF	T	1/1/2007		$0.00

405- 70- A LATEX MODIFIED PORTLAND CEMENT CONCRETE

Unit CF; M3 **Accuracy** 10th of a Cubic Foot; 100th of a Cubic Meter **PlanQuantity?** no

Notes

Details

Intended for thin deck overlays. Show locations in plans w/ quantity block. Include pay item note in plans. Cost includes cost of preparation, labor and material of latex modified concrete overlay.
Use 10.0 CF (1.00 M3) as a minimum quantity.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **405- 70- A** **LATEX MODIFIED PORTLAND CEMENT CONCRETE** **CF**

A =
1 (Type I Cement)
2 (Type III Cement)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0405 70 1	LATEX MODIFIED PORTLAND CEMENT CONCRETE, TYPE I	CF	T	1/1/2007		$235.80
0405 70 2	LATEX MODIFIED PORTLAND CEMENT CONC,TYPE III	CF	T	1/1/2007		$483.33

407- 1- AB PRECAST THREE SIDED CULVERT

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Per specifications, 3 sided box culvers are not an equivalent substitution for Precast Concrete Box Culverts. Refer to PPM for selection and design criteria.

Related Items	**Required**		**Recommended**
Forms	**Design**	SBDRST	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**		
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**	Vol 1, Chapter 33	
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **407- 1- AB** **PRECAST THREE SIDED CULVERT** **LF**

A= Span (Total width of culvert when multiple barrels)
1 (up to 20 ft)
2 (20-29 ft)
3 (30-39 ft)
4 (40-49 ft)
5 (50 ft or greater)

B= Height
1 (up to 10 ft)
2 (10 ft or greater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

411- 1- EPOXY MATERIAL

Unit GA; LI **Accuracy** Gallon; Liter **PlanQuantity?** no

Notes **Effective 1/2009 letting; replaces 400-134. Refer to Estimates Bulletin 08-02.**

Details Intended for use on rehabilitation projects for epoxy material to cover existing concrete surfaces. Cost of labor paid under 411-2. Show location(s) in the plans.

Related Items	**Required**	**Recommended**
Forms	**Design**	
	Construction	
Documentation	**Design**	
	Construction	
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **411- 1-** **EPOXY MATERIAL** **GA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0411 1	EPOXY MATERIAL- STRUCTURES REHAB	GA	T	1/1/2009		$142.38

411- 2- INJECT AND SEAL CRACK

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **Effective 1/2009 letting; replaces 400-135. Refer to Estimates Bulletin 08-02.**

Details Intended for use on rehabilitation projects for epoxy material to cover existing concrete surfaces. Cost of epoxy material paid under 411-1. Show location(s) in the plans.

Related Items **Required** **Recommended**

Forms **Design**
Construction

Documentation **Design**
Construction

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **411- 2-** **INJECT AND SEAL CRACK** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0411 2	CRACKS INJECT & SEAL- STRUCTURES REHAB	LF	T	1/1/2009		$80.36

413-149- PENETRANT SEALER

Unit GA; LI **Accuracy** Gallon; Liter **PlanQuantity?**

Notes

Details NO SEPARATE PAYMENT FOR NEW, PRECAST ITEMS.
Pay Item for Rehabilitation jobs only. Intended to cover material cost of penetrant sealer.
Pay Item 413-154 to cover labor costs. Show locations in plans w/ quantity block.

Related Items **Required** 413-154 **Recommended**

Forms **Design** SHTabQuant COMP 700-050-06

	Construction	700-050-56
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **413-149-** **PENETRANT SEALER** **GA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0413149	PENETRANT SEALER	GA		1/1/2007		$30.21

413-151- METHACRYLATE MONOMER

Unit GA; LI **Accuracy** Gallon; Liter **PlanQuantity?**

Notes

Details For use on rehabilitation projects to seal existing deck cracks. Contact State Materials (Gainesville Corrosion) Lab for assistance with Specs. Intended to cover material cost of methacrylate monomer. Pay Item 413-154 to cover labor costs. Show locations in plans w/ quantity block.

Related Items	**Required**	413-154	**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-06
	Construction	700-050-56	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **413-151-** **METHACRYLATE MONOMER** **GA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0413151	METHACRYLATE MONOMER	GA		1/1/2007		$0.00

413-154- CLEANING AND SEALING CONCRETE SURFACES: PENETRANT SEALER OR METHACRYLATES

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?**

Notes

Details NO SEPARATE PAYMENT for prestressed, precast items.

REFER TO SECTION 400 for other coatings.
Intended to cover labor cost of penetrant sealer or Methacrylates. Pay Item 413-149 or 413-151 to cover material costs. Show locations in plans w/ quantity block.

Related Items **Required** 413-149 or 413-151 **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01
Construction Refer to Comp Book

Documentation **Design**
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 100 or 200 Structures or Roadway

Status

Struct. **413-154-** **CLEANING AND SEALING CONCRETE SURFACES: PENETRANT SEALER OR METHACRYLATES** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0413154	CLEANING & SEALING CONCRETE SURFACES - PENETRANT SEALER OR METHACRYLATES	SF		1/1/2007		$0.83

415- 1- A REINFORCING STEEL

Unit LB; KG **Accuracy** Pound; Kilogram **PlanQuantity?** yes

Notes

Details Show locations in plans w/ quantity block by component (when component is constructed in phases break down quantity by phase). Include complete bar lists in plans.

APPROACH SLABS: Item No. 415- 1- 9 (2415- 1- 9) to be used with Item No. 400- 2- 10 (2400- 2- 10).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-07

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards ENDWALLS: 295
MISC: Index 280 for guard at pipe end

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **415- 1- A** **REINFORCING STEEL** **LB**

A =
1 (Roadway)
3 (Retaining Wall)
4 (Superstructure)
5 (Substructure)
6 (Miscellaneous)
8 (Bulkhead)
9 (Approach Slabs)
13 (Steps)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0415 1 1	REINF STEEL- ROADWAY	LB		1/1/2007		$0.99
0415 1 2	REINFORCING STEEL- BRIDGE	LB		1/1/2007		$10.50
0415 1 3	REINFORCING STEEL- RETAINING WALL	LB		1/1/2007		$1.09
0415 1 4	REINFORCING STEEL - SUPERSTRUCTURE	LB		1/1/2007		$0.97
0415 1 5	REINFORCING STEEL- SUBSTRUCTURE	LB		1/1/2007		$0.99
0415 1 6	REINFORCING STEEL- MISCELLANEOUS	LB		1/1/2007		$1.16
0415 1 8	REINFORCING STEEL- BULKHEAD	LB		1/1/2007		$1.15
0415 1 9	REINFORCING STEEL- APPROACH SLABS	LB		1/1/2007		$0.98

415- 2- A **REINFORCING STEEL- STAINLESS**

Unit LB; KG **Accuracy** Pound; Kilogram **PlanQuantity?** no

Notes

Details Coordinate the use of Stainless Steel with the State Structures Office.

Intended for stainless steel or stainless steel clad reinforcing. Show locations in plans w/ quantity block. Include bar lists.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-07
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **415- 2- A** **REINFORCING STEEL- STAINLESS** **LB**

A =
1 (Roadway)
3 (Retaining Wall)
4 (Superstructure)
5 (Substructure)
6 (Miscellaneous)
7 (Sound Barrier Wall)
8 (Bulkhead)
9 (Approach Slabs)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0415 2 6	REINF STEEL- STAINLESS, MISCELLANEOUS	LB	T	1/1/2007		$0.00
0415 2 8	REINF STEEL- STAINLESS, BULKHEAD	LB	T	1/1/2007		$0.00

425- 1-AAB INLETS

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

"Partial" is used when an existing structure is to be modified.
"Modified" is used when the standard structure on new construction is modified.
Modification of the Standard Index Drawing by adding weirs, notches, skimmers, and/or a change to dimensions and reinforcement, are to be detailed in the plans.
"Special" is not limited to any particular inlet type. If a designer has a need for something

other than an inlet covered by the standard indexes, it is regarded as special (as in special design). Special Designs require signed and sealed drawings to be included in the plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SBDRST	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 200, 201, 209, 210, 211, 212, 213,215,216,217,218,219,220, 221,230, 232,233,235,240, 282	
	Specifications		
		***Selected Items may require Tech Spec and/or Plan Detail**	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 425- 1-AAB INLETS EA

AA =
20 (Curb Type 9)
21 (Curb Type 10)
31 (Curb Type P-1) B not 3, 4, 7, or 8
32 (Curb Type P-2) B not 3, 4, 7, or 8
33 (Curb Type P-3) B not 3, 4, 7, or 8
34 (Curb Type P-4) B not 3, 4, 7, or 8
35 (Curb Type P-5) B not 3, 4, 7, or 8
36 (Curb Type P-6) B not 3, 4, 7, or 8
41 (Curb Type J-1) B not 3, 4, 7, or 8
42 (Curb Type J-2) B not 3, 4, 7, or 8
43 (Curb Type J-3) B not 3, 4, 7, or 8
44 (Curb Type J-4) B not 3, 4, 7, or 8
45 (Curb Type J-5) B not 3, 4, 7, or 8
46 (Curb Type J-6) B not 3, 4, 7, or 8
47 (Curb Type 7)
48 (Curb Type 8)
50 (Dt Bot Type A)
51 (Dt Bot Type B)
52 (Dt Bot Type C)
53 (Dt Bot Type C Mod) B not 9
54 (Dt Bot Type D)
55 (Dt Bot Type E)
56 (Dt Bot Type F)
57 (Dt Bot Type G)
58 (Dt Bot Type H)
59 (Dt Bot Type I)

60 (Dt Bot Type J)
61 (Dt Bot Type K)
70 (Gutter Type S)
71 (Gutter Type V)
72 (Gutter Type S Mod) B not 9
80 (Med Barrier Type 1)
81 (Med Barrier Type 2)
82 (Med Barrier Spec Type 1)
83 (Med Barrier Spec Type 2)
84 (Med Barrier Type 3)
85 (Med Barrier Type 4)
86 (Med Barrier Type 5)
88(Barrier Wall, Rigid, Curb & Gutter)
89 (Barrier Wall)
90 (Special) B not 7 or 8*
91 (Closed Flume) B= 0

B =
1 (=< 10')
2 (> 10')
3 (J Bot, < 10') (Standard Index 201)
4 (J Bot, > 10') (Standard Index 201)
5 (Partial)
7 (J Bottom, <10', Special)
8 (J Bottom, >10', Special)
9 (Modify)
0 (N/A) only for A=91

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0425 1201	INLETS, CURB, TYPE 9, <10'	EA		1/1/2007		$5,022.66
0425 1202	INLETS, CURB, TYPE 9, >10'	EA		1/1/2007		$5,000.00
0425 1203	INLETS, CURB, TYPE 9, J BOT, <10'	EA		1/1/2007		$4,939.97
0425 1205	INLETS, CURB, TYPE 9, PARTIAL	EA		1/1/2007		$4,173.33
0425 1209	INLETS, CURB, TYPE 9, MODIFY	EA		1/1/2007		$11,081.40
0425 1211	INLETS, CURB, TYPE 10, <10'	EA		1/1/2007		$4,379.66
0425 1215	INLETS, CURB, TYPE 10, PARTIAL	EA		1/1/2007		$3,145.00
0425 1311	INLETS, CURB, TYPE P-1, <10'	EA		1/1/2007		$4,334.20
0425 1312	INLETS, CURB TYPE P-1, >10'	EA		1/1/2007		$4,898.94
0425 1315	INLETS, CURB TYPE P-1, PARTIAL	EA		1/1/2007		$3,934.06
0425 1319	INLETS, CURB TYPE P-1, MODIFY	EA		1/1/2007		$3,000.00
0425 1321	INLETS, CURB, TYPE P-2, <10'	EA		1/1/2007		$4,420.35
0425 1322	INLETS, CURB, TYPE P-2, >10'	EA		1/1/2007		$6,233.61
0425 1325	INLETS, CURB, TYPE P-2, PARTIAL	EA		1/1/2007		$5,245.00
0425 1329	INLETS, CURB TYPE P-2, MODIFY	EA		1/1/2007		$3,000.00
0425 1331	INLETS, CURB, TYPE P-3, <10'	EA		1/1/2007		$4,796.06
0425 1332	INLETS, CURB. TYPE P-3, >10'	EA		1/1/2007		$5,652.88
0425 1335	INLETS, CURB, TYPE P-3, PARTIAL	EA		1/1/2007		$3,610.56
0425 1341	INLETS, CURB, TYPE P-4, <10'	EA		1/1/2007		$4,624.05

0425 1342	INLETS, CURB, TYPE P-4, >10'	EA	1/1/2007	$4,694.74
0425 1345	INLETS, CURB, TYPE P-4, PARTIAL	EA	1/1/2007	$3,688.39
0425 1351	INLETS, CURB, TYPE P-5, <10'	EA	1/1/2007	$3,849.50
0425 1352	INLETS, CURB, TYPE P-5, >10'	EA	1/1/2007	$5,066.34
0425 1355	INLETS, CURB, TYPE P-5, PARTIAL	EA	1/1/2007	$3,453.57
0425 1359	INLETS, CURB, TYPE P-5, MODIFY	EA	1/1/2007	$10,286.07
0425 1361	INLETS, CURB, TYPE P-6, <10'	EA	1/1/2007	$4,200.10
0425 1362	INLETS, CURB, TYPE P-6, >10'	EA	1/1/2007	$5,788.26
0425 1365	INLETS, CURB, TYPE P-6, PARTIAL	EA	1/1/2007	$4,134.14
0425 1369	INLETS, CURB, TYPE P-6, MODIFY	EA	1/1/2007	$2,500.00
0425 1411	INLETS, CURB TYPE J-1, <10'	EA	1/1/2007	$5,192.84
0425 1412	INLETS, CURB, TYPE J-1, >10'	EA	1/1/2007	$6,165.15
0425 1415	INLETS, CURB, TYPE J-1, PARTIAL	EA	1/1/2007	$3,829.77
0425 1419	INLETS, CURB, TYPE J-1, MODIFY	EA	1/1/2007	$11,692.18
0425 1421	INLETS, CURB, TYPE J-2, <10'	EA	1/1/2007	$5,501.40
0425 1422	INLETS, CURB, TYPE J-2, >10'	EA	1/1/2007	$6,290.75
0425 1425	INLETS, CURB, TYPE J-2, PARTIAL	EA	1/1/2007	$3,000.00
0425 1431	INLETS, CURB, TYPE J-3, <10'	EA	1/1/2007	$6,853.35
0425 1432	INLETS, CURB, TYPE J-3, >10'	EA	1/1/2007	$6,092.10
0425 1435	INLETS, CURB, TYPE J-3, PARTIAL	EA	1/1/2007	$5,000.00
0425 1441	INLETS, CURB, TYPE J-4, <10'	EA	1/1/2007	$7,596.65
0425 1442	INLETS, CURB, TYPE J-4, >10'	EA	1/1/2007	$6,105.26
0425 1445	INLETS, CURB, TYPE J-4, PARTIAL	EA	1/1/2007	$4,316.25
0425 1451	INLETS, CURB, TYPE J-5, <10'	EA	1/1/2007	$5,312.06
0425 1452	INLETS, CURB, TYPE J-5, >10'	EA	1/1/2007	$6,348.22
0425 1455	INLETS, CURB, TYPE J-5, PARTIAL	EA	1/1/2007	$4,023.17
0425 1459	INLETS, CURB, TYPE J-5, MODIFY	EA	1/1/2007	$3,200.00
0425 1461	INLETS, CURB, TYPE J-6, <10'	EA	1/1/2007	$6,517.94
0425 1462	INLETS, CURB, TYPE J-6, >10'	EA	1/1/2007	$6,802.27
0425 1465	INLETS, CURB, TYPE J-6, PARTIAL	EA	1/1/2007	$4,597.33
0425 1471	INLETS, CURB, TYPE 7, <10'	EA	1/1/2007	$4,361.66
0425 1472	INLETS, CURB, TYPE 7, >10'	EA	1/1/2007	$4,500.00
0425 1473	INLETS, CURB, TYPE 7, J BOT , <10'	EA	1/1/2007	$5,687.12
0425 1474	INLETS, CURB, TYPE 7, J BOT ,>10'	EA	1/1/2007	$7,616.91
0425 1475	INLETS, CURB, TYPE 7, PARTIAL	EA	1/1/2007	$4,614.60
0425 1479	INLETS, CURB, TYPE 7, MODIFY	EA	1/1/2007	$5,000.00
0425 1481	INLETS, CURB, TYPE 8, <10'	EA	1/1/2007	$3,974.19
0425 1483	INLETS, CURB, TYPE 8, J BOT , <10'	EA	1/1/2007	$6,200.00
0425 1485	INLETS, CURB, TYPE 8, PARTIAL	EA	1/1/2007	$6,807.35
0425 1489	INLETS, CURB, TYPE 8, MODIFY	EA	1/1/2007	$8,093.66
0425 1501	INLETS, DT BOT, TYPE A, <10'	EA	1/1/2007	$2,280.90
0425 1502	INLETS, DT BOT, TYPE A, >10'	EA	1/1/2007	$8,000.00
0425 1503	INLETS, DT BOT, TYPE A, J BOT, <10'	EA	1/1/2007	$6,986.67

0425 1504	INLETS, DT BOT, TYPE A, J BOT, >10'	EA	1/1/2007	$9,992.88
0425 1505	INLETS, DT BOT, TYPE A, PARTIAL	EA	1/1/2007	$2,545.44
0425 1511	INLETS, DT BOT, TYPE B, <10'	EA	1/1/2007	$4,564.44
0425 1512	INLETS, DT BOT, TYPE B, >10'	EA	1/1/2007	$8,000.00
0425 1513	INLETS, DT BOT, TYPE B, J BOT, <10'	EA	1/1/2007	$4,775.00
0425 1514	INLETS, DT BOT, TYPE B, J BOT, >10'	EA	1/1/2007	$6,150.00
0425 1515	INLETS, DT BOT, TYPE B, PARTIAL	EA	1/1/2007	$3,550.00
0425 1519	INLETS, DT BOT, TYPE B, MODIFY	EA	1/1/2007	$4,206.58
0425 1521	INLETS, DT BOT, TYPE C,<10'	EA	1/1/2007	$2,257.43
0425 1522	INLETS, DT BOT, TYPE C,>10'	EA	1/1/2007	$2,750.00
0425 1523	INLETS, DT BOT, TYPE C,JBOT, <10'	EA	1/1/2007	$3,977.61
0425 1524	INLETS, DT BOT, TYPE C, JBOT, >10'	EA	1/1/2007	$4,359.57
0425 1525	INLETS, DITCH BOTTOM, TYPE C, PARTIAL	EA	1/1/2007	$2,476.81
0425 1529	INLETS, DT BOT, TYPE C, MODIFY	EA	1/1/2007	$2,892.39
0425 1531	INLETS, DT BOT, TYPE C, MODIFIED, <10''	EA	1/1/2007	$2,801.71
0425 1532	INLETS, DT BOT, TYPE C, MODIFIED, >10''	EA	1/1/2007	$4,475.58
0425 1533	INLETS, DT BOT, TYPE C, MODIFIED, J BOT, <10''	EA	1/1/2007	$5,160.50
0425 1534	INLETS, DT BOT, TYPE C, MODIFIED, J BOT, >10''	EA	1/1/2007	$8,000.00
0425 1535	INLETS, DT BOT, TYPE C, MODIFIED, PARTIAL	EA	1/1/2007	$2,100.00
0425 1541	INLETS, DT BOT, TYPE D, <10'	EA	1/1/2007	$3,137.63
0425 1542	INLETS, DT BOT, TYPE D, >10'	EA	1/1/2007	$3,903.92
0425 1543	INLETS, DITCH BOTTOM, TYPE D, J BOT, <10'	EA	1/1/2007	$5,584.71
0425 1544	INLETS, DITCH BOTTOM, TYPE D, J BOT, >10'	EA	1/1/2007	$5,240.57
0425 1545	INLETS, DITCH BOTTOM, TYPE D, PARTIAL	EA	1/1/2007	$2,772.74
0425 1547	INLETS, DITCH BOTTOM, TYPE D, J BOTTOM, <10', SPECIAL	EA	1/1/2007	$7,475.00
0425 1549	INLETS, DT BOT, TYPE D, MODIFY	EA	1/1/2007	$4,315.30
0425 1551	INLETS, DT BOT, TYPE E, <10'	EA	1/1/2007	$3,217.97
0425 1552	INLETS, DT BOT, TYPE E, >10'	EA	1/1/2007	$4,965.30
0425 1553	INLETS, DT BOT, TYPE E, J BOT, <10'	EA	1/1/2007	$4,936.92
0425 1554	INLETS, DT BOT, TYPE E, J BOT, >10'	EA	1/1/2007	$5,763.79
0425 1555	INLETS, DT BOT, TYPE E, PARTIAL	EA	1/1/2007	$3,086.82
0425 1557	INLETS, DITCH BOTTOM, TYPE E, J BOTTOM, <10', SPECIAL	EA	1/1/2007	$8,588.44
0425 1559	INLETS, DT BOT, TYPE E, MODIFY	EA	1/1/2007	$5,315.09
0425 1561	INLETS, DT BOT, TYPE F, <10'	EA	1/1/2007	$4,203.95
0425 1562	INLETS, DT BOT, TYPE F, >10'	EA	1/1/2007	$6,140.00

0425 1563	INLETS, DITCH BOTTOM, TYPE F, J BOT, <10'	EA	1/1/2007	$8,113.47
0425 1564	INLETS, DITCH BOTTOM, TYPE F, J BOT, >10'	EA	1/1/2007	$8,000.00
0425 1565	INLETS, DITCH BOTTOM, PARTIAL	EA	1/1/2007	$4,493.75
0425 1567	INLETS, DITCH BOTTOM, TYPE F, J BOT, <10' - SPECIAL	EA	1/1/2007	$5,000.00
0425 1568	INLETS,DITCH BOT,TYPE F, J BOT, >10', SPECIAL	EA	1/1/2007	$8,000.00
0425 1569	INLETS, DITCH BOTTOM, TYPE F, MODIFY	EA	1/1/2007	$5,000.00
0425 1571	INLETS, DITCH BOTTOM, TYPE G, <10'	EA	1/1/2007	$5,286.27
0425 1572	INLETS, DITCH BOTTOM, TYPE G, >10'	EA	1/1/2007	$7,642.94
0425 1573	INLETS, DITCH BOTTOM, TYPE G, J BOT, <10'	EA	1/1/2007	$5,000.00
0425 1574	INLETS, DITCH BOTTOM, TYPE G, J BOT, >10'	EA	1/1/2007	$8,000.00
0425 1577	INLETS, DITCH BOTTOM, TYPE G, J BOT, <10' , SPECIAL	EA	1/1/2007	$5,581.51
0425 1578	INLETS, DITCH BOTTOM, TYPE G, J BOT, >10' , SPECIAL	EA	1/1/2007	$8,000.00
0425 1579	INLETS, DITCH BOTTOM, TYPE G, MODIFY	EA	1/1/2007	$3,000.00
0425 1581	INLETS, DT BOT, TYPE H, <10'	EA	1/1/2007	$5,245.21
0425 1582	INLETS, DT BOT, TYPE H, >10'	EA	1/1/2007	$8,000.00
0425 1585	INLETS, DT BOT, TYPE H, PARTIAL	EA	1/1/2007	$3,000.00
0425 1587	INLETS, DITCH BOTTOM, TYPE H, J BOTTOM, <10', SPECIAL	EA	1/1/2007	$16,431.67
0425 1589	INLETS, DT BOT, TYPE H, MODIFY	EA	1/1/2007	$7,013.83
0425 1601	INLETS, DT BOT, TYPE J, <10'	EA	1/1/2007	$9,000.00
0425 1602	INLETS, DT BOT, TYPE J, >10'	EA	1/1/2007	$8,000.00
0425 1603	INLETS, DT BOT, TYPE J, J BOT, <10'	EA	1/1/2007	$5,000.00
0425 1604	INLETS, DT BOT, TYPE J, JBOT,>10'	EA	1/1/2007	$8,000.00
0425 1609	INLETS, DT BOT, TYPE J, MODIFY	EA	1/1/2007	$3,000.00
0425 1611	INLETS, DITCH BOTTOM, TYPE K, <10'	EA	1/1/2007	$4,178.74
0425 1617	INLETS, DITCH BOTTOM, TYPE K, J BOTTOM, <10' SPECIAL	EA	1/1/2007	$53,675.00
0425 1619	INLETS, DITCH BOTTOM, TYPE K, J BOTTOM, MODIFY	EA	1/1/2007	$23,500.00
0425 1701	INLETS, GUTTER, TYPE S, <10'	EA	1/1/2007	$3,248.98
0425 1702	INLETS, GUTTER, TYPE S, >10'	EA	1/1/2007	$9,000.00
0425 1703	INLETS, GUTTER, TYPE S, J BOTTOM <10'	EA	1/1/2007	$4,634.21
0425 1704	INLETS, GUTTER, TYPE S, J BOTTOM, >10'	EA	1/1/2007	$6,064.91

0425 1705	INLETS, GUTTER, TYPE S, PARTIAL	EA	1/1/2007	$2,797.70
0425 1707	INLET,GUTTER TYPE S,J BOTTOM,<10',SPECIAL	EA	1/1/2007	$5,906.67
0425 1708	INLET,GUTTER TYPE S,J BOTTOM,>10',SPECIAL	EA	1/1/2007	$8,000.00
0425 1711	INLETS, GUTTER, TYPE V, <10'	EA	1/1/2007	$4,187.84
0425 1712	INLETS, GUTTER, TYPE V, >10'	EA	1/1/2007	$6,696.42
0425 1713	INLETS, GUTTER, TYPE V, J BOT, <10'	EA	1/1/2007	$7,270.95
0425 1714	INLETS, GUTTER, TYPE V, J BOTTOM, >10'	EA	1/1/2007	$8,122.50
0425 1715	INLETS, GUTTER, TYPE V, PARTIAL	EA	1/1/2004	$2,797.50
0425 1725	INLETS, GUTTER, TYPE S MOD, PARTIAL	EA	1/1/2007	$1,846.34
0425 1801	INLETS, MEDIAN BARRIER, TYPE 1, <10'	EA	1/1/2007	$3,778.73
0425 1802	INLETS, MEDIAN BARRIER, TYPE 1, >10'	EA	1/1/2007	$8,000.00
0425 1803	INLETS, MEDIAN BARRIER, TYPE 1, J BOT, <10'	EA	1/1/2007	$5,427.04
0425 1804	INLETS, MEDIAN BARRIER, TYPE 1, J BOT, >10'	EA	1/1/2007	$8,197.96
0425 1805	INLETS, MEDIAN BARRIER, TYPE 1, PARTIAL	EA	1/1/2007	$2,500.00
0425 1811	INLETS, MEDIAN BARRIER, TYPE 2, <10'	EA	1/1/2007	$4,966.38
0425 1812	INLETS, MEDIAN BARRIER, TYPE 2, >10'	EA	1/1/2007	$5,250.00
0425 1813	INLETS, MEDIAN BARRIER, TYPE 2, J BOT, <10'	EA	1/1/2007	$5,424.31
0425 1814	INLETS, MEDIAN BARRIER, TYPE 2, J BOT, >10'	EA	1/1/2007	$8,000.00
0425 1815	INLETS, MEDIAN BARRIER, TYPE 2, PARTIAL	EA	1/1/2007	$4,009.59
0425 1833	INLETS, MEDIAN BARRIER SPEC TYPE 2, J BOT, <10'	EA	1/1/2007	$5,000.00
0425 1841	INLETS, MEDIAN BARRIER, TYPE 3, <10'	EA	1/1/2007	$4,965.50
0425 1842	INLETS, MEDIAN BARRIER, TYPE 3, >10'	EA	1/1/2007	$11,940.18
0425 1843	INLETS, MEDIAN BARRIER, TYPE 3, J BOT, <10'	EA	1/1/2007	$6,386.62
0425 1844	INLETS, MEDIAN BARRIER, TYPE 3, J BOT, >10'	EA	1/1/2007	$8,478.72
0425 1845	INLETS, MEDIAN BARRIER, TYPE 3, PARTIAL	EA	1/1/2007	$6,009.88
0425 1847	INLETS, MEDIAN BARRIER, TYPE 3, J BOTTOM, <10', SPECIAL	EA	1/1/2007	$7,522.28
0425 1848	INLETS, MEDIAN BARRIER, TYPE 3, J BOTTOM, >10', SPECIAL	EA	1/1/2007	$8,756.92

0425 1851	INLETS, MEDIAN BARRIER, TYPE 4, <10'	EA		1/1/2007	$4,812.59
0425 1852	INLETS, MEDIAN BARRIER, TYPE 4, >10'	EA		1/1/2007	$8,000.00
0425 1853	INLETS, MEDIAN BARRIER, TYPE 4, J BOT, <10'	EA		1/1/2007	$7,576.67
0425 1854	INLETS, MEDIAN BARRIER, TYPE 4, J BOT, >10'	EA		1/1/2007	$13,833.33
0425 1855	INLETS, MEDIAN BARRIER, TYPE 4, PARTIAL	EA		1/1/2007	$3,913.52
0425 1857	INLETS, MEDIAN BARRIER, TYPE 4, J BOTTOM, <10', SPECIAL	EA		1/1/2007	$7,118.95
0425 1859	INLETS, MEDIAN BARRIER TYPE 4, MODIFY	EA		1/1/2007	$3,000.00
0425 1861	INLETS, MEDIAN BARRIER TYPE 5, < 10'	EA		1/1/2007	$7,019.10
0425 1862	INLETS, MB, TYPE 5, >10'	EA		1/1/2007	$8,000.00
0425 1863	INLETS, MB, TYPE 5, J BOT, <10'	EA		1/1/2007	$8,000.00
0425 1864	INLETS, MB, TYPE 5, J BOT, >10'	EA		1/1/2007	$8,000.00
0425 1865	INLETS, MB, TYPE 5, PARTIAL	EA		1/1/2007	$3,000.00
0425 1869	INLETS, MB, TYPE 5, MODIFY	EA		1/1/2007	$3,000.00
0425 1881	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, <10'	EA		1/1/2007	$5,521.10
0425 1882	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, >10'	EA		1/1/2007	$5,947.50
0425 1883	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, J BOT<10'	EA		1/1/2007	$5,000.00
0425 1884	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, J BOT>10'	EA		1/1/2007	$8,000.00
0425 1885	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, PARTIAL	EA		1/1/2007	$3,891.26
0425 1889	INLETS, BARRIER WALL, RIGID, CURB & GUTTER, MODIFY	EA		1/1/2007	$3,500.00
0425 1891	INLETS, BARRIER WALL, <10'	EA		1/1/2007	$4,145.25
0425 1892	INLETS, BARRIER WALL, >10'	EA		1/1/2007	$5,602.67
0425 1893	INLETS, BARRIER WALL, J BOT, <10'	EA		1/1/2007	$5,256.90
0425 1894	INLETS, BARRIER WALL, J BOT, >10'	EA		1/1/2007	$17,786.67
0425 1895	INLETS, BARRIER WALL, PARTIAL	EA		1/1/2007	$3,000.00
0425 1898	INLETS, BARRIER WALL, J BOT, >10', SPECIAL	EA		1/1/2007	$8,000.00
0425 1899	INLETS, BARRIER WALL, MODIFY	EA		1/1/2007	$0.00
0425 1901	INLETS, SPECIAL, <10'	EA	T	1/1/2007	$8,707.29
0425 1902	INLETS, SPECIAL, >10'	EA	T	1/1/2007	$10,328.36
0425 1903	INLETS, SPECIAL, J BOTTOM <10'	EA	T	1/1/2007	$0.00
0425 1904	INLETS, SPECIAL, J BOTTOM >10'	EA	T	1/1/2007	$6,500.00
0425 1905	INLETS, SPECIAL, PARTIAL	EA	T	1/1/2007	$4,132.25
0425 1909	INLETS, SPECIAL, MODIFY	EA	T	1/1/2007	$0.00

0425 1910	INLETS, CLOSED FLUME, N/A	EA	1/1/2007	$4,398.46

425- 2-AAB MANHOLES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details The designer should consider calling for a ring and cover where routine cleanout and inspection is anticipated, such as a French Drain.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 200, 201

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 2-AAB** **MANHOLES** **EA**

AA =
4 (P-7)
6 (P-8)
7 (J-7)
9 (J-8)
10 (Special) Plan Detail and/or Tech Spec required

B =
1 (=< 10') Refer to Index 201
2 (> 10') " " " "
3 (Partial)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0425 2 41	MANHOLES, P-7, <10'	EA		1/1/2007		$3,348.07
0425 2 42	MANHOLES, P-7, >10'	EA		1/1/2007		$5,058.44
0425 2 43	MANHOLES, P-7, PARTIAL	EA		1/1/2007		$2,445.28
0425 2 61	MANHOLES, P-8, <10'	EA		1/1/2007		$2,856.46
0425 2 62	MANHOLES, P-8, >10'	EA		1/1/2007		$3,929.33
0425 2 63	MANHOLES, P-8, PARTIAL	EA		1/1/2007		$2,349.08
0425 2 71	MANHOLES, J-7, <10'	EA		1/1/2007		$4,999.40
0425 2 72	MANHOLES, J-7, >10'	EA		1/1/2007		$7,075.00
0425 2 73	MANHOLES, J-7, PARTIAL	EA		1/1/2007		$4,011.87

0425 2 91	MANHOLES, J-8, <10'	EA		1/1/2007	$5,043.99
0425 2 92	MANHOLES, J-8, >10'	EA		1/1/2007	$7,525.61
0425 2 93	MANHOLES, J-8, PARTIAL	EA		1/1/2007	$3,224.10
0425 2101	MANHOLES, SPECIAL, <10'	EA	T	1/1/2007	$8,227.19
0425 2102	MANHOLES, SPECIAL, >10'	EA	T	1/1/2007	$25,156.40
0425 2103	MANHOLES, SPECIAL, PARTIAL	EA	T	1/1/2007	$3,000.00

425- 3-AAB JUNCTION BOX (DRAINAGE)

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 200, 201

Specifications

***Selected Items may require Tech Spec and/or Plan Detail**

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 3-AAB** **JUNCTION BOX (DRAINAGE)** **EA**

AA =
4 (P-7)
6 (J-7)
8 (Special)*
9 (Utility)
10 (Utility, Modify)
11 (Utility, Remove)

B =
1 (=< 10') Refer to Index 201
2 (> 10') " " "
3 (Partial)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0425 3 41	JUNCTION BOX, DRAINAGE, P-7, <10'	EA		1/1/2007		$3,419.37
0425 3 42	JUNCTION BOXES, P-7, >10'	EA		1/1/2007		$8,000.00
0425 3 43	JUNCTION BOX, DRAINAGE, P-7, PARTIAL	EA		1/1/2007		$2,569.43
0425 3 61	JUNCTION BOXES, J-7, <10'	EA		1/1/2007		$24,100.00
0425 3 63	JUNCTION BOXES, DRAINAGE, J-7, PARTIAL	EA		1/1/2007		$2,300.64
0425 3 81	JUNCTION BOX, DRAINAGE, SPECIAL, < 10'	EA		1/1/2007		$5,000.00
0425 3 82	JUNCTION BOX, DRAINAGE, SPECIAL, > 10'	EA		1/1/2007		$8,000.00
0425 3 83	JUNCTION BOX, DRAINAGE, SPECIAL, PARTIAL	EA		1/1/2007		$1,288.44
0425 3 91	JUNCTION BOX, DRAINAGE, UTILITY, < 10'	EA		1/1/2007		$5,000.00

425- 4- INLET- ADJUST

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Consists of changing the vertical placement of an existing inlet so that it will conform to the finished grade as designated in the plans.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 200, 201, 210

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 4-** **INLET- ADJUST** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0425 4	INLETS, ADJUST	EA		1/1/2007		$1,735.70

425- 5- A MANHOLES- ADJUST

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Consists of changing the vertical placement of an existing manhole so that it will conform to the finished grade as designated in the plans.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 200, 201

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 5- A** **MANHOLES- ADJUST** **EA**

A =
Blank (Standard)
1 (Utilities)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0425 5	MANHOLE, ADJUST	EA		1/1/2007		$540.15
0425 5 1	MANHOLE, ADJUST, UTILITIES	EA		1/1/2007		$668.91

425- 6- VALVE BOX- ADJUST

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 6-** **VALVE BOX- ADJUST** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0425 6	VALVE BOXES, ADJUST	EA		1/1/2007		$308.45

425- 8- DRAINAGE STRUCTURES, MISCELLANEOUS- ADJUST

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 8-** **DRAINAGE STRUCTURES, MISCELLANEOUS- ADJUST** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0425 8	DRAINAGE STRUCTURES, MISCELLANEOUS, ADJUST	EA		1/1/2007		$815.67

425- 10- YARD DRAIN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use outside of the R/W. Refer to Design Standard for details.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 282

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 10-** **YARD DRAIN** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0425 10	YARD DRAIN	EA		1/1/2007		$1,658.50

425- 11- DRAINAGE STRUCTURE- MODIFY EXISTING

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 11-** **DRAINAGE STRUCTURE- MODIFY EXISTING** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0425 11	DRAINAGE STRUCTURE MODIFY	EA	T	1/1/2007		$2,438.79

425- 71- INLETS RELOCATION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 71-** **INLETS RELOCATION** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0425 71	INLETS RELOCATING	EA	T	1/1/2007		$5,000.00

425- 74- A MANHOLES AND INLETS, CLEANING & SEALING

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 74- A** **MANHOLES AND INLETS, CLEANING & SEALING** **EA**

A =
1 (<10')
2 (>10')

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0425 74 1	MANHOLES & INLETS CLEANING & SEALING, <10'	EA	T	1/1/2007		$774.86
0425 74 2	MANHOLES & INLETS CLEANING & SEALING, >10'	EA	T	1/1/2007		$2,898.75

425- 78- INLET CAP, PRECAST

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes
Details
Related Items **Required** **Recommended**
Forms **Design** SBDRST COMP 700-050-03
Construction Refer to Comp Book
Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References **PPM Chapter**
Other
Standards Index No. 200, 201, 280
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **425- 78-** **INLET CAP, PRECAST** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0425 78	INLET CAP, PRECAST	EA	T	1/1/2007		$1,097.59

425- 82- REPLACE GRATE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Payment includes "…new grates, and removing and stockpiling existing grates", per specification.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **425- 82-** **REPLACE GRATE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0425 82	GRATE REPLACEMENT	EA		1/1/2007		$805.93

430- 94- AA DESILT PIPE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **Effective January 2007 letting; replaces 430-94A-BB**

Details Includes furnishing equipment and labor necessary to desilt the pipe, and also includes disposing of all silt and debris removed during the desilting operation.
Summarize on plans by pipe location, diameter (or equivalent round diameter), and length to be desilted.

Related Items **Required** **Recommended**

Forms **Design** SBSPMS; SBSDMES COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430- 94- AA** **DESILT PIPE** **LF**

AA= Pipe Diameter
1 (0 to 24")
2 (25-36")
3 (37-48")
4 (49-60")
5 (61" or greater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0430 94 1	DESILTING PIPE, 0 - 24"	LF		1/1/2007		$6.25
0430 94 2	DESILTING PIPE, 25 - 36"	LF		1/1/2007		$11.06
0430 94 3	DESILTING PIPE, 37 - 48"	LF		1/1/2007		$15.97
0430 94 4	DESILTING PIPE, 49 - 60"	LF		1/1/2007		$15.89
0430 94 5	DESILTING PIPE, 61" OR GREATER	LF		1/1/2007		$20.19

430-150-ABB CAST IRON SOIL PIPE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes **Inactive Structure; verify applicable standard index**

Details to be used in accordance with Index 282 for back of sidewalk drainage only.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Other
Standards Index No. 282
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **430-150-ABB** **CAST IRON SOIL PIPE** **LF**

A =
1 (Service) SV

BB = Standard Pipe Sizes
13 (4")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

430-17A-BCC PIPE CULVERT OPTIONAL MATERIAL

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes **Selected items valid through 6-30-08. See pay item structure.**

Details Show application, size, and material with class/gage/corrugation on the contract plans. Refer to Index 205 for valid sizes, class/gage/corrugation. For pipe other than round (elliptical concrete and metal pipe arch) show actual size, class/gage/corrugation shown on standard index 205. Use equivalent round pipe size for payment.

Related Items **Required** **Recommended**

Forms **Design** SBSPMS; SBSDMES COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Drainage Manual

Standards Index No. 205

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-17A-BCC** **PIPE CULVERT OPTIONAL MATERIAL** **LF**

A =
1 (Storm Sewer) SS valid through 6-30-08, replaced by A=5
2 (Cross Drain) CD valid through 6-30-08, replaced by A=5
3 (Gutter Drain) GD
4 (Side Drain) SD
5 (Storm and Cross Drain) S/CD effective 7-1-08

B = Shape
1 (Round Shape)
2 (Other –Elip/Arch)

CC= Standard Pipe Sizes (effective 1/1/2007)
01 (up to 24")
02 (25 to 36")
03 (37 to 48")
04 (49 to 60")
05 (61" or greater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0430172223	PIPE CULV, OPT MATL, OTHER, 15"CD	LF		1/1/2007		$50.00
0430173101	PIPE CULVERT OPTIONAL MATERIAL, ROUND - SHAPE, 0-24", GUTTER DRAIN	LF		1/1/2007		$69.79
0430173102	PIPE CULVERT OPTIONAL MATERIAL, ROUND - SHAPE, 25-36", GUTTER DRAIN	LF		1/1/2007		$0.00
0430173103	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 37-48"GD	LF		1/1/2007		$0.00
0430173201	PIPE CULVERT OPTIONAL MATERIAL, OTHER - ELLIP ARCH, 0-24", GUTTER DRAIN	LF		1/1/2007		$0.00
0430174101	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 0-24"SD	LF		1/1/2007		$64.98
0430174102	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 25-36"SD	LF		1/1/2007		$100.84
0430174103	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 37-48"SD	LF		1/1/2007		$130.80
0430174104	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 49-60"SD	LF		1/1/2007		$206.32
0430174201	PIPE CULVERT, OPTIONAL MATERIAL, OTHER - ELLIP/ARCH, 0-24"SD	LF		1/1/2007		$79.53
0430174202	PIPE CULVERT, OPTIONAL MATERIAL, OTHER - ELLIP/ARCH, 25-36"SD	LF		1/1/2007		$99.41
0430174203	PIPE CULVERT, OPTIONAL MATERIAL, OTHER - ELLIP/ARCH, 37-48"SD	LF		1/1/2007		$163.70
0430174204	PIPE CULVERT, OPTIONAL MATERIAL, OTHER - ELLIP/ARCH, 49-60"SD	LF		1/1/2007		$349.57
0430175101	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 0-24"S/CD	LF		7/1/2008		$91.04
0430175102	PIPE CULVERT, OPT MATERIAL, ROUND, 25-36"S/CD	LF		7/1/2008		$172.14
0430175103	PIPE CULVERT, OPT MATERIAL, ROUND, 37-48"S/CD	LF		7/1/2008		$316.43
0430175104	PIPE CULVERT, OPT MATERIAL, ROUND, 49-60"S/CD	LF		7/1/2008		$250.00
0430175105	PIPE CULVERT, OPT MATERIAL, ROUND, 60" OR > S/CD	LF		7/1/2008		$500.00
0430175201	PIPE CULVERT,OPTIONAL MATERIAL,OTHER-ELIP/ARCH, 0-24"S/CD	LF		7/1/2008		$85.04

0430175202	PIPE CULVERT, OPT MATERIAL, OTHER - ELIP/ARCH, 25-36"S/CD	LF	7/1/2008	$145.00
0430175203	PIPE CULVERT, OPT MATERIAL, OTHER - ELIP/ARCH, 37-48"S/CD	LF	7/1/2008	$250.00
0430175204	PIPE CULVERT, OPT MATERIAL, OTHER - ELIP/ARCH, 49-60"S/CD	LF	7/1/2008	$330.00

430-200-ABB FLARED END SECTION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for use outside the clear zone on median drain and cross drain installations. Pipe sizes 12" and 15" (300 mm and 375 mm) are permitted within the clear zone. Specifically not intended for side drain installation.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 270

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-200-ABB** **FLARED END SECTION** **EA**

A =
Blank (Concrete)

BB = Standard Pipe Sizes
21 (12")
23 (15")
25 (18")
27 (21")
29 (24")
31 (27")
33 (30")
34
38 (36")
40 (42")
41 (48")
42 (54")
43 (60")
44 (66")
45 (72")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0430200 21	FLARED END SECTION, CONCRETE, 12"	EA		1/1/2007		$975.87
0430200 23	FLARED END SECTION, CONCRETE, 15"	EA		1/1/2007		$1,805.84
0430200 25	FLARED END SECTION, CONCRETE, 18"	EA		1/1/2007		$1,644.80
0430200 29	FLARED END SECTION, CONCRETE, 24"	EA		1/1/2007		$1,983.00
0430200 33	FLARED END SECTION, CONCRETE, 30"	EA		1/1/2007		$2,580.00
0430200 38	FLARED END SECTION, CONCRETE, 36"	EA		1/1/2007		$2,555.00
0430200 40	FLARED END SECTION, CONCRETE, 42"	EA		1/1/2007		$4,000.00
0430200 41	FLARED END SECTION, CONCRETE, 48"	EA		1/1/2007		$3,000.00
0430200 42	FLARED END SECTION, CONCRETE, 54"	EA		1/1/2007		$5,100.00
0430200 43	FLARED END SECTION, CONCRETE, 60"	EA		1/1/2007		$4,000.00
0430200 44	FLARED END SECTION, CONCRETE, 66"	EA		1/1/2007		$5,000.00
0430200 45	FLARED END SECTION, CONCRETE, 72"	EA		1/1/2007		$6,000.00

430-6AB-CDD U-ENDWALL

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Refer to Standard Index 260 or 261 for proper selection. to be used only in the clear zone for the drainage of medians and other areas having low design velocities. Precasting or cast-in-place will be permitted. Cost of this item shall include concrete, reinforcing steel, grate and all accessories.

For items included on Index 250, payment will be made under concrete and steel items. Refer to Design Standards.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 260, 261

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-6AB-CDD** **U-ENDWALL** **EA**

A =Index No.
0 (Std 260) when A =0, BC =21
1 (Std 261)

B = Appurtenance
0 (none)
1 (baffles)
2 (grate)
3 (baffles and grate)

C = slope
0 (1:6)
1 (1:4)
2 (1:3)
3 (1:2)

DD = Standard Pipe Sizes
23 (15")
25 (18")
29 (24")
33 (30")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0430600025	U-ENDWALL, STD 260, 1:6 SLOPE, 18"PIPE	EA		1/1/2007		$3,083.33
0430600125	U-ENDWALL, STD 260, 1:4 SLOPE, 18"PIPE	EA		1/1/2007		$3,083.33
0430602125	U-ENDWALL, WITH GRATE,STD 260, 1:4 SLOPE, 18"	EA		1/1/2007		$4,085.50
0430602129	U-ENDWALL, WITH GRATE,STD 260, 1:4 SLOPE, 24"	EA		1/1/2007		$4,860.00
0430610025	U-ENDWALL, STD 261, 1:6 SLOPE, 18"PIPE	EA		1/1/2007		$3,000.00
0430610029	U-ENDWALL, STD 261, 1:6 SLOPE, 24"PIPE	EA		1/1/2007		$3,000.00
0430610125	U-ENDWALL, STD 261, 1:4 SLOPE, 18"PIPE	EA		1/1/2007		$2,349.26
0430610129	U-ENDWALL, STD 261, 1:4 SLOPE, 24"PIPE	EA		1/1/2007		$2,410.34
0430610133	U-ENDWALL, STD 261, 1:4 SLOPE, 30"PIPE	EA		1/1/2007		$3,772.37
0430610223	U-ENDWALL, STD 261, 1:3 SLOPE, 15"PIPE	EA		1/1/2007		$3,000.00
0430610225	U-ENDWALL, STD 261, 1:3 SLOPE, 18"PIPE	EA		1/1/2007		$2,031.29
0430610229	U-ENDWALL, STD 261, 1:3 SLOPE, 24"PIPE	EA		1/1/2007		$0.00

0430610233	U-ENDWALL, STD 261, 1:3 SLOPE, 30"PIPE	EA	1/1/2007	$3,000.00
0430610323	U-ENDWALL, STD 261, 1:2 SLOPE, 15"PIPE	EA	1/1/2007	$2,938.70
0430610325	U-ENDWALL, STD 261, 1:2 SLOPE, 18"PIPE	EA	1/1/2007	$3,000.00
0430610329	U-ENDWALL, STD 261,1:2 SLOPE, 24"PIPE	EA	1/1/2007	$3,500.00
0430611025	U-ENDWALL, STD 261, BAFFLES, 1:6 SLOPE, 18"PIPE	EA	1/1/2007	$3,380.00
0430611029	U-ENDWALL, STD 261, BAFFLES, 1:6 SLOPE, 24"PIPE	EA	1/1/2007	$3,000.00
0430611033	U-ENDWALL, STD 261, BAFFLES, 1:6 SLOPE, 30"PIPE	EA	1/1/2007	$3,000.00
0430611123	U-ENDWALL WITH BAFFLES, STD 261, 1:4 SLOPE, 15"PIPE	EA	1/1/2007	$3,056.67
0430611125	U-ENDWALL WITH BAFFLES, STD 261, 1:4 SLOPE, 18"PIPE	EA	1/1/2007	$2,454.73
0430611129	U-ENDWALL WITH BAFFLES, STD 261, 1:4 SLOPE, 24"PIPE	EA	1/1/2007	$2,481.67
0430611133	U-ENDWALL WITH BAFFLES,STD 261,1:4 SLOPE,30"PIPE	EA	1/1/2007	$4,012.43
0430611223	U-ENDWALL WITH BAFFLES, STD 261, 1:3 SLOPE, 15"PIPE	EA	1/1/2007	$3,000.00
0430611225	U-ENDWALL WITH BAFFLES, STD 261, 1:3 SLOPE, 18"PIPE	EA	1/1/2007	$1,874.51
0430611229	U-ENDWALL WITH BAFFLES, STD 261, 1:3 SLOPE, 24"PIPE	EA	1/1/2007	$6,002.50
0430611233	U-ENDWALL, STD 261, BAFFLES, 1:3 SLOPE, 30"PIPE	EA	1/1/2007	$2,718.16
0430611323	U-ENDWALL WITH BAFFLES, STD 261, 1:2 SLOPE, 15"PIPE	EA	1/1/2007	$2,842.74
0430611325	U-ENDWALL WITH BAFFLES, STD 261, 1:2 SLOPE, 18"PIPE	EA	1/1/2007	$1,973.54
0430611329	U-ENDWALL WITH BAFFLES, STD 261, 1:2 SLOPE, 24"PIPE	EA	1/1/2007	$2,249.54
0430611333	U-ENDWALL, BAFFLES, STD 261, 1:2 SLOPE, 30"PIPE	EA	1/1/2007	$3,551.30
0430612023	U-ENDWALL WITH GRATE, STD 261, 1:4 SLOPE, 18"	EA	1/1/2007	$4,000.00
0430612025	U-ENDWALL WITH GRATE, STD 261, 1:6 SLOPE, 18"PIPE	EA	1/1/2007	$3,875.00
0430612029	U-ENDWALL WITH GRATE, STD 261, 1:6 SLOPE, 24"PIPE	EA	1/1/2007	$5,318.03
0430612033	U-ENDWALL WITH GRATE, STD 261, 1:6 SLOPE, 30"	EA	1/1/2007	$5,933.33
0430612125	U-ENDWALL WITH GRATE, STD 261, 1:4 SLOPE, 18"PIPE	EA	1/1/2007	$3,650.00
0430612129	U-ENDWALL WITH GRATE, STD 261, 1:4 SLOPE, 24"PIPE	EA	1/1/2007	$4,000.00

0430612333	U-ENDWALL, GRATE, STD 261, 1:2 SLOPE, 30" PIPE	EA	1/1/2007	$4,000.00
0430613025	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:6 SLOPE, 18"	EA	1/1/2007	$2,982.50
0430613029	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:6 SLOPE, 24"PIPE	EA	1/1/2007	$3,018.12
0430613123	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:4 SLOPE,15"PIPE	EA	1/1/2007	$4,500.00
0430613125	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:4 SLOPE,18"PIPE	EA	1/1/2007	$5,001.39
0430613133	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:4 SLOPE,30"PIPE	EA	1/1/2007	$3,812.76
0430613225	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:3 SLOPE,18"PIPE	EA	1/1/2007	$3,169.33
0430613233	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:3 SLOPE,30"PIPE	EA	1/1/2007	$3,647.00
0430613325	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:2 SLOPE,18"PIPE	EA	1/1/2007	$2,635.79
0430613333	U-ENDWALL, WITH BAFFLES & GRATE, STD 261,1:2 SLOPE,30"PIPE	EA	1/1/2007	$0.00

430-72A-BCC PIPE, SLOTTED OR PERFORATED CULVERT

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details to be used for French Drain applications only. Refer to Design Standards. Show size, class/gage and material on the contract plans. Payment is based on equivalent round pipe size.

Related Items **Required** **Recommended**

Forms **Design** SBSPMS; SBSDMES COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 205, 285

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-72A-BCC** **PIPE, SLOTTED OR PERFORATED CULVERT** **LF**

A =
1 (Storm Sewer) French Drain ONLY
B = Material

4 (Optional)

CC = Standard Pipe Sizes
23 (15")
25 (18")
27 (21")
29 (24")
31 (27")
33 (30")
38 (36")
40 (42")
41 (48")
42 (54")
43 (60")
44 (66")
45 (72")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0430721423	PIPE SLOTTED OR PERFORATED CULV, OPTIONAL, 15" SS	LF	T	1/1/2007		$80.00
0430721425	PIPE SLOTTED OR PERFORATED CULV, OPTIONAL, 18" SS	LF	T	1/1/2007		$92.74
0430721429	PIPE SLOTTED OR PERFORATED CULV, OPTIONAL, 24" SS	LF	T	1/1/2007		$123.90
0430721433	PIPE SLOTTED OR PERFORATED CULV, OPTIONAL, 30" SS	LF	T	1/1/2007		$110.67
0430721438	PIPE SLOTTED OR PERFORATED CULV, OPTIONAL, 36" SS	LF	T	1/1/2007		$137.00
0430721443	PIPE SLOTTED OR PERFORATED CULV, OPTIONAL, 60" SS	LF		1/1/2007		$110.67

430-82A- BB CLEANING & SEALING EXISTING PIPE JOINT

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details

For cleaning and sealing existing joints only. Coordinate use of this item w/ State Drainage Office to evaluate the condition of the existing pipe. Replacement of the pipe (paid under optional pipe) should be considered. Tech Specs should detail the work to be completed, the sealing materials, and any testing that may be required.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for

Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **430-82A- BB** **CLEANING & SEALING EXISTING PIPE JOINT** **EA**

A =
1 (Storm Sewer)
2 (Cross Drain)

BB = Standard Pipe Sizes
23 (15")
25 (18")
27 (21")
29 (24")
31 (27")
33 (30")
34
38 (36")
40 (42")
41 (48")
42 (54")
43 (60")
44 (66")
45 (72")
47 (84")
48 (90")
49 (96")
50 (102")
51 (108")
52 (120")
53 (132")
54 (144")
55 (156")
56 (168")
57 (180")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0430821 23	CLEANING & SEALING EXISTING PIPE JOINT, 15" STORM SEWER	EA	T	1/1/2007	10/31/2008	$325.00
0430821 29	CLEANING & SEALING EXISTING PIPE JOINT, 24" STORM SEWER	EA	T	1/1/2007	10/31/2008	$515.00
0430821 33	CLEANING & SEALING EXISTING PIPE JOINT, 30" STORM SEWER	EA	T	1/1/2007		$984.00

0430821 44	CLEANING & SEALING EXISTING PIPE JOINT, 66", SS	EA	T	1/1/2007		$5,241.67
0430821 45	CLEANING & SEALING EXISTING PIPE JOINT, 72" STORM SEWER	EA	T	1/1/2007	10/31/2008	$2,756.00
0430822 29	CLEANING & SEALING EXISTING PIPE JOINT, 24" CD	EA	T	1/1/2007		$900.00
0430822 33	CLEANING & SEALING EXISTING PIPE JOINT, 30" CD	EA	T	1/1/2007		$900.00
0430822 38	CLEANING & SEALING EXISTING PIPE JOINT, 36" CD	EA	T	1/1/2007		$900.00
0430822 42	CLEANING & SEALING EXISTING PIPE JOINT, 54" CD	EA	T	1/1/2007		$1,988.00
0430822 43	CLEANING & SEALING EXISTING PIPE JOINT, 60" CD	EA	T	1/1/2007		$2,244.00

430-830- PIPE FILLING AND PLUGGING

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details to be used only for filling/plugging existing drainage culverts, where called for in the plans. Per the specifications, "The cost of filling and plugging pipe shown in the plans as existing, to be placed out of service"
NOTE: "The cost of plugging pipe, shown in the plans as proposed new pipe, will be included in the contract unit price for pipe culvert." (Do not use this pay item for new pipe.)

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-04
Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards Index No. 280
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-830-** **PIPE FILLING AND PLUGGING** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0430830	PIPE FILLING AND PLUGGING	CY		1/1/2007		$304.26

430-860- A STORM SEWER TRENCH

Unit LF; M1 **Accuracy** Linear Foot; 10th of a **PlanQuantity?** yes

Meter

Notes

Details

Related Items	**Required**		**Recommended**
Forms	**Design**	SBDRST	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-860- A** **STORM SEWER TRENCH** **LF**

A =
2 (2' Wide)
3 (3' Wide)
4 (4' Wide)
5 (5' Wide)
6 (6' Wide)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

430-880- AA FLAP GATES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective January 2007 sizes AA= 1 to 5 effective. Sizes AA=21 and greater valid through 12-31-06.**

Details Refer to Drainage Manual for additional information.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SBDRST	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	

References **PPM Chapter**
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-880- AA** **FLAP GATES** **EA**

AA= Standard Pipe Sizes (effective 1/1/2007)
01 (0 to 24")
02 (25 to 36")
03 (37 to 48")
04 (49 to 60")
05 (61" or greater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0430880 01	FLAP GATES, 0-24"	EA	T	1/1/2007		$3,378.85
0430880 02	FLAP GATES, 25-36"	EA	T	1/1/2007		$4,962.50
0430880 03	FLAP GATES, 37-48"	EA	T	1/1/2007		$9,972.50
0430880 04	FLAP GATES, 49-60"	EA	T	1/1/2007		$16,266.67

430-950- DESILTING CONCRETE BOX CULVERT

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Payment is for the VOLUME OF SILT removed, based on the length and width of the box culvert, and the average DEPTH OF SILT to be removed.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-04
Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-950-** **DESILTING CONCRETE BOX CULVERT** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0430950	DESILTING CONCRETE BOX CULVERT,	CY		1/1/2007		$99.22

430-963- AA PVC PIPE FOR BACK OF SIDEWALK DRAINAGE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?**

Notes **Effective January 2007; replaces 430-96A-BCC**

Details For use according to Design Standard for back of sidewalk applications.
For all other applications, including gutter drain, use Optional Pipe.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index 282

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-963- AA** **PVC PIPE FOR BACK OF SIDEWALK DRAINAGE** **LF**

A= Size
1 (4" diameter) Standard
2 (Non-Standard diameter)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0430963 1	PVC PIPE FOR BACK OF SIDEWALK, 4"	LF		1/1/2007		$38.13
0430963 2	PVC PIPE FOR BACK OF SIDEWALK, NON STANDARD DIAMETER	LF		1/1/2007		$38.83

430-970- PROTECTIVE PIPE BEDDING

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Pipe bedding is incidental to cost of pipe for most applications. If a special bedding is needed, contact the State Drainage Office prior to requesting this item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SBDRST	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **430-970-** **PROTECTIVE PIPE BEDDING** **LF**

Notes Contact the State Drainage Office prior to opening.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

430-98A-BCC MITERED END SECTION

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details Includes all pipe, grates (when required), fasteners, reinforcement, connectors, anchors, concrete, sealants, jackets, coupling bands, and all work required to install the mitered end section. Show shape and size on the contract plans. Refer to Index 273 for valid sizes. Use equivalent round pipe size for payment.

Related Items	**Required**		**Recommended**
Forms	**Design**	SBSPMS; SBSDMES	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 205, 272, 273	
	Specifications		
	Prep & Doc Manual Chapter(s)	6, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **430-98A-BCC** **MITERED END SECTION** **EA**

A = Application
2 (Cross Drain)
4 (Side Drain)

B = Shape
1 (Optional Round)
6 (Optional Other – Elliptical/Arch)

CC = Standard Round or Equivalent Other Shape Pipe Sizes
Standard Pipe Sizes
21 (12")
23 (15")
25 (18")
27 (21")
29 (24")
31 (27")
33 (30")
34
38 (36")
40 (42")
41 (48")
42 (54")
43 (60")
44 (66")
45 (72")
46 (78")
47 (84")
48 (90")
49 (96")
50 (102")
51 (108")
52 (120")
53 (132")
54 (144")
55 (156")
56 (168")
57 (180")
Refer to Standard Index 205

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0430982121	MITERED END SECTION, OPTIONAL ROUND, 12" CD	EA		1/1/2007		$1,000.00
0430982123	MITERED END SECTION, OPTIONAL ROUND, 15" CD	EA		1/1/2007		$1,176.66
0430982125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	EA		1/1/2007		$1,188.70
0430982129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	EA		1/1/2007		$1,249.13
0430982133	MITERED END SECTION, OPTIONAL ROUND, 30" CD	EA		1/1/2007		$2,057.99

0430982138	MITERED END SECTION, OPTIONAL ROUND, 36" CD	EA	1/1/2007	$2,860.04
0430982140	MITERED END SECTION, OPTIONAL ROUND, 42" CD	EA	1/1/2007	$3,274.41
0430982141	MITERED END SECTION, OPTIONAL ROUND, 48" CD	EA	1/1/2007	$3,720.56
0430982142	MITERED END SECTION, OPTIONAL ROUND, 54" CD	EA	1/1/2007	$5,287.06
0430982143	MITERED END SECTION, OPTIONAL ROUND, 60" CD	EA	1/1/2007	$6,444.42
0430982144	MITERED END SECTION, OPTIONAL ROUND, 66" CD	EA	1/1/2007	$7,991.19
0430982145	MITERED END SECTION, OPTIONAL ROUND, 72" CD	EA	1/1/2007	$7,941.00
0430982147	MITERED END SECTION, OPTIONAL ROUND, 84" CD	EA	1/1/2007	$9,000.00
0430982623	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 15" CD	EA	1/1/2007	$1,165.01
0430982625	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 18" CD	EA	1/1/2007	$1,097.37
0430982629	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 24" CD	EA	1/1/2007	$1,385.30
0430982633	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 30" CD	EA	1/1/2007	$2,632.90
0430982638	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 36" CD	EA	1/1/2007	$2,844.43
0430982640	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 42" CD	EA	1/1/2007	$3,014.43
0430982641	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 48" CD	EA	1/1/2007	$3,841.16
0430982642	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 54" CD	EA	1/1/2007	$5,094.97
0430982645	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 72" CD	EA	1/1/2007	$4,678.50
0430984121	MITERED END SECTION, OPTIONAL ROUND, 12" SD	EA	1/1/2007	$1,084.96
0430984123	MITERED END SECTION, OPTIONAL ROUND, 15" SD	EA	1/1/2007	$1,171.59
0430984125	MITERED END SECTION, OPTIONAL ROUND, 18" SD	EA	1/1/2007	$1,122.17
0430984129	MITERED END SECTION, OPTIONAL ROUND, 24" SD	EA	1/1/2007	$1,288.11
0430984133	MITERED END SECTION , OPTIONAL ROUND, 30" SD	EA	1/1/2007	$2,477.24
0430984138	MITERED END SECTION , OPTIONAL ROUND, 36" SD	EA	1/1/2007	$3,253.56
0430984140	MITERED END SECTION , OPTIONAL ROUND, 42" SD	EA	1/1/2007	$3,713.00
0430984141	MITERED END SECTION , OPTIONAL ROUND, 48" SD	EA	1/1/2007	$4,054.47

0430984142	MITERED END SECTION , OPTIONAL ROUND, 54" SD	EA	1/1/2007	$5,856.65
0430984143	MITERED END SECTION , OPTIONAL ROUND, 60" SD	EA	1/1/2007	$7,405.87
0430984147	MITERED END SECTION, OPTIONAL ROUND, 84" SD	EA	1/1/2007	$6,800.00
0430984623	MITERED END SECTION, OPTIONAL OTHER - ELLIP/ARCH, 15" SD	EA	1/1/2007	$1,395.51
0430984625	MITERED END SECT, OPTIONAL - ELLIPTICAL / ARCH, 18" SD	EA	1/1/2007	$1,208.62
0430984629	MITERED END SECT, OPTIONAL - ELLIPTICAL / ARCH, 24" SD	EA	1/1/2007	$1,702.02
0430984633	MITERED END SECT, OPTIONAL /ELLIP/ARCH, 30" SD	EA	1/1/2007	$2,522.19
0430984638	MITERED END SECT, OPTIONAL /ELLIP/ARCH, 36" SD	EA	1/1/2007	$3,361.87
0430984640	MITERED END SECT, OPTIONAL /ELLIP/ARCH, 42" SD	EA	1/1/2007	$4,511.11
0430984641	MITERED END SECT, OPTIONAL /ELLIP/ARCH, 48" SD	EA	1/1/2007	$6,601.70
0430984642	MITERED END SECT, OPTIONAL /ELLIP/ARCH, 54" SD	EA	1/1/2007	$10,354.65
0430984645	MITERED END SECT, OPTIONAL /ELLIP/ARCH, 72" SD	EA	1/1/2007	$6,000.00

431- 1- A PIPE LINER, OPTIONAL MATERIAL

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **Effective January 2007 letting; replaces 431-1-ABB.**

Details This item is used to rehabilitate an existing pipe by forming a lining on the host pipe's interior, thereby allowing a debilitated pipe to regain strength and performance capabilities. Box to Box liners are preferred. Contact the State Drainage Office if sectional liners are considered (see item 908-431-A)
Design with manufacturer's lengths in mind for all practical applications. Refer to specifications for current industry practices.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **431- 1- A** **PIPE LINER, OPTIONAL MATERIAL** **LF**

A= Size Range
1 (0=-24")
2 (25-36")
3 (37-48")
4 (49-60")
5 (61" and greater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0431 1 1	PIPE LINER, OPTIONAL MATERIAL, 0-24"	LF		1/1/2007		$141.82
0431 1 2	PIPE LINER, OPTIONAL MATERIAL, 25-36"	LF		1/1/2007		$226.87
0431 1 3	PIPE LINER, OPTIONAL MATERIAL, 37-48"	LF		1/1/2007		$330.06
0431 1 4	PIPE LINER, OPTIONAL MATERIAL, 49 - 60"	LF		1/1/2007		$1,055.88
0431 1 5	PIPE LINER, OPTIONAL MATERIAL, 61" AND GREATER	LF		1/1/2007		$400.00

432- 3- A **CHEMICAL GROUT REPAIR - PIPE, NON-TEST**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **432- 3- A** **CHEMICAL GROUT REPAIR - PIPE, NON-TEST** **EA**

A =
1 (15")
2 (18")
3 (21")
4 (24")
5 (30")
6 (36")
7 (42")
8 (48")
9 (54")
10 (66")
11 (72")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0432 3 1	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 15"	EA	T	1/1/2007		$365.72
0432 3 2	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 18"	EA	T	1/1/2007		$428.63
0432 3 4	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 24"	EA	T	1/1/2007		$537.73
0432 3 5	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 30"	EA	T	1/1/2007		$646.30
0432 3 6	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 36"	EA	T	1/1/2007		$675.56
0432 3 7	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 42"	EA	T	1/1/2007		$823.00
0432 3 8	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 48"	EA	T	1/1/2007		$927.22
0432 3 9	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 54"	EA	T	1/1/2007		$1,095.56
0432 3 10	CHEMICAL GROUT REPAIR, PIPE, NON-TEST, 66"	EA	T	1/1/2007		$1,336.52

433- 1- CHEMICAL GROUT REPAIR- MANHOLE/INLET

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **433- 1-** **CHEMICAL GROUT REPAIR- MANHOLE/INLET** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0433 1	CHEMICAL GROUT REPAIR, MANHOLE / INLET	EA	T	1/1/2007		$964.49

435- 1- AA STRUCTURAL PLATE PIPE CULVERT

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Coordinate the use of this item with the State Drainage Office prior to requesting pay items.

Related Items **Required** **Recommended**

Forms **Design** COMP 700-050-03
Construction

Documentation **Design**
Construction

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **435- 1- AA** **STRUCTURAL PLATE PIPE CULVERT** **LF**

AA= Blank for drainage applications
99 (Animal Crossing)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0435 1	STRUCTURAL PLATE PIPE CULVERT	LF		7/1/2008		$1,000.00
0435 1 99	STRUCTURAL PLATE PIPE CULVERT SPECIAL- ANIMAL CROSSING	LF		4/1/2009		$1,000.00

436- 1- A TRENCH DRAIN

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Use in accordance with Index 206. Various alternatives are available on the standard.

Special should only be used if you have a significant design change. Plan Details and/or Tech Spec will be required. Minor changes may be noted in the plans with the "standard" item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 206

Specifications

***Selected Items may require Tech Spec and/or Plan Detail**

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **436- 1- A** **TRENCH DRAIN** **LF**

A = size
1 (Standard)
2 (Special)*

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0436 1 1	TRENCH DRAIN, STANDARD	LF		1/1/2007		$106.64
0436 1 2	TRENCH DRAIN, SPECIAL	LF	T	1/1/2007		$195.88

440- 1- AA UNDERDRAIN

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Item based on the size of the smooth interior product. Price per length shall include cost of pipe, fittings, aggregate, sock, filter fabric, cleanouts, and concrete aprons.

Related Items	**Required**		**Recommended**
Forms	**Design**	SBUNDR; SBUnderdrain	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 286	
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **440- 1- AA** **UNDERDRAIN** **LF**

AA =
10 (Type I)
20 (Type II)
30 (Type III)
50 (Type V)
60 (Type Special)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0440 1 10	UNDERDRAIN, TYPE I	LF		1/1/2007		$51.00
0440 1 20	UNDERDRAIN, TYPE II	LF		1/1/2007		$21.63
0440 1 30	UNDERDRAIN, TYPE III	LF		1/1/2007		$44.49
0440 1 50	UNDERDRAIN, TYPE V	LF		1/1/2007		$66.42
0440 1 60	UNDERDRAIN, TYPE SPECIAL	LF	T	1/1/2007		$95.91

440- 70- UNDERDRAIN INSPECTION BOX

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items	**Required**		**Recommended**
Forms	**Design**	SBUNDR; SBUnderdrain	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 245, 286	

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **440- 70-** **UNDERDRAIN INSPECTION BOX** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0440 70	UNDERDRAIN INSPECTION BOX	EA		1/1/2007		$1,926.54

440- 73- A UNDERDRAIN OUTLET PIPE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Use in accordance with Standard Index. Price per length includes trench excavation, pipe, fittings, concrete aprons, hardware cloth for concrete aprons, stubbing into drainage structures, backfill in place, and removal of excess materials.

Related Items **Required** **Recommended**

Forms **Design** SBUNDR; SBUnderdrain COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 286

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **440- 73- A** **UNDERDRAIN OUTLET PIPE** **LF**

A = Size
1 (4")
2 (6")
3 (8")
4 (10")
5 (12") Note: 12" is non-standard; will require plan details and/or Tech Spec
6 (5")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0440 73 1	UNDERDRAIN OUTLET PIPE, 4"	LF		1/1/2007		$17.85
0440 73 2	UNDERDRAIN OUTLET PIPE, 6"	LF		1/1/2007		$38.74
0440 73 3	UNDERDRAIN OUTLET PIPE, 8"	LF		1/1/2007		$88.27
0440 73 4	UNDERDRAIN OUTLET PIPE, 10"	LF		1/1/2007		$36.83
0440 73 5	UNDERDRAIN OUTLET PIPE, 12"	LF	T	1/1/2007		$39.73

442- 70- VERTICAL DRAINAGE WICKS

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **442- 70-** **VERTICAL DRAINAGE WICKS** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0442 70	VERTICAL DRAINAGE WICKS	LF	T	1/1/2007		$2.17

443- 70- AA FRENCH DRAIN

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This item includes furnishing and placing pipe, pipe plugs, pipe fittings, coarse aggregate and filter fabric, and also includes trenching, backfilling, sheeting and, when necessary, pavement restoration.

Related Items **Required** **Recommended**

Forms **Design** SBDRST COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 285

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **443- 70- AA** **FRENCH DRAIN** **LF**

AA = Size
3 (18")
4 (24")
5 (30")
6 (36")
7 (42")
8 (48")
9 (54")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0443 70 3	FRENCH DRAIN, 18"	LF		1/1/2007		$179.85
0443 70 4	FRENCH DRAIN, 24"	LF		1/1/2007		$156.88
0443 70 5	FRENCH DRAIN, 30"	LF		1/1/2007		$269.33
0443 70 6	FRENCH DRAIN, 36"	LF		1/1/2007		$334.58
0443 70 7	FRENCH DRAIN, 42"	LF		1/1/2007		$269.33
0443 70 8	FRENCH DRAIN, 48"	LF		1/1/2007		$464.67

443- 71- A BALLAST ROCK

Unit CY; M3 **Accuracy** Cubic Yard; Cubic Meter **PlanQuantity?** no

Notes

Details Do not use with 443-70 French Drain item; refer to Index 285 for details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction 700-050-54

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Measure inside the truck bed; calculate the volume by multiplying those three dimensions. Subtract 2% to account for the hoist box and bed fillets. Record all field records on site source record form and transfer final quantity to computation book.

References

PPM Chapter

Other

Standards Index No. 285

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **443- 71- A** **BALLAST ROCK** **CY**

A =
1 (French Drain Aggregate)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0443 71 1	BALLAST ROCK, FRENCH DRAIN AGGREGATE	CY		1/1/2007		$81.88

444- 70- AA WELL OPEN HOLE (DEEP)

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **444- 70- AA** **WELL OPEN HOLE (DEEP)** **LF**

AA =
5 (12")
6 (14")
7 (16")
8 (18")
11 (24")

14 (30")
17 (36")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0444 70 11	WELL OPEN HOLE, DEEP, 24"	LF	T	1/1/2007		$192.52

444- 71- AA WELL CASING (DEEP)

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **444- 71- AA** **WELL CASING (DEEP)** **LF**

AA =
5 (12")
6 (14")
7 (16")
8 (18")
11 (24")
14 (30")
17 (36")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0444 71 11	WELL CASING, DEEP, 24"	LF	T	1/1/2007		$242.18

444- 72- AA DEEP WELL CLEANING

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Details and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **444- 72- AA** **DEEP WELL CLEANING** **LF**

AA = Well Diameter
5 (12")
6 (14")
7 (16")
8 (18")
11 (24")
14 (30")
17 (36")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0444 72 11	DEEP WELL CLEANING, 24"	LF	T	1/1/2008		$82.05

446- 1- A EDGEDRAIN DRAINCRETE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Price per length includes removal of existing shoulder pavement, trench excavation, disposal of excess materials, filter fabric, draincrete, edgedrain pipe and fittings. Refer to Design Standard for payment details, based on new/rehab construction.

Related Items **Required** **Recommended**

Forms **Design** SBEDDR; SBEdgedrains COMP 700-050-03

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 286, 287
	Specifications	
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **446- 1- A** **EDGEDRAIN DRAINCRETE** **LF**

A= pipe size
1 (Standard)
9 (non-standard)*
standard per Index 287 is 4"

Notes * non-standard may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0446 1 1	EDGEDRAIN DRAINCRETE, STANDARD	LF		1/1/2007		$21.20

446- 71- A EDGEDRAIN OUTLET PIPE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Includes removal of existing shoulder pavement, trench excavation, pipe and fitting, concrete apron, sod, stubbing into existing inlets and paved ditches, etc. Refer to Design Standard for details.

Related Items	**Required**		**Recommended**
Forms	**Design**	SBEDDR; SBEdgedrains	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 287	
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **446- 71- A** **EDGEDRAIN OUTLET PIPE** **LF**

A= pipe size
1 (4")
9 (non-standard) Note: standard per Index 287 is 4"

Notes * non-standard item may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0446 71 1	EDGEDRAIN OUTLET PIPE, 4"	LF		1/1/2007		$21.80

448- 73- PUMPING STATION

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **448- 73-** **PUMPING STATION** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0448 73	PUMPING STATION	LS	T	1/1/2007		$1,426,250.00

450- 1-AAA PRESTRESSED BEAMS

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details

Intended for prestressed beams for bridge construction.
Summarize quantities by location per span.
AAA= 201, 202, 203 are typically used for bridge widening projects. These are non-standard and will require project specific design. Designers must work with the District and/or State Structures Office when using these items.
AAA=278, 378 are typically used for post-tensioned beams. These are non-standard and will require project specific design. Designers must work with the District and/or State Structures Office when using these items.
Non-Standard beam types: Coordinate standards (as applicable / if available), with details shown in the plans.
Other beam types: Pay Items for other beam types may be expanded upon request. Minor "non-standard" changes may be paid under the applicable beam type, with applicable details in the plans or specifications.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 20110 thru 20199, and 20310, 20320.	
	Specifications		
	Prep & Doc Manual Chapter(s)	6, 7, 13	

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **450- 1-AAA** **PRESTRESSED BEAMS** **LF**

AAA =
1 (Type II)
2 (Type III)
3 (Type IV)
4 (Type V)
5 (Type VI)
7 (Special) see pay item details
54 (Bulb T, 54") *non-standard
63 (Bulb T, 63") *non-standard
72 (Bulb T, 72")
78 (Bulb T, 78")
118 (Florida Double Tee, Fdt18) *non-standard
124 (Florida Double Tee, Fdt24) *non-standard
130 (Florida Double Tee, Fdt30) *non-standard
201 (Type II Modified) *non-standard
202 (Type III Modified) *non-standard
203 (Type IV Modified) *non-standard
250 (Inverted T, 20”)
278 (Bulb T, 78", Modified, w/post tensioning) *non-standard
378 (Bulb T, 78", Haunched, Modified, w/post tensioning) *non-standard

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0450 1 1	PRESTRESSED BEAMS, TYPE II	LF		1/1/2007		$119.26
0450 1 2	PRESTRESSED BEAMS, TYPE III	LF		1/1/2007		$169.41
0450 1 3	PRESTRESSED BEAMS, TYPE IV	LF		1/1/2007		$181.74
0450 1 4	PRESTRESSED BEAMS, TYPE V	LF		1/1/2007		$236.24
0450 1 5	PRESTRESSED BEAMS, TYPE VI	LF		1/1/2007		$253.33
0450 1 7	PREST BEAMS, SPECIAL	LF		1/1/2007		$137.27
0450 1 72	PRESTRESSED BEAMS, BULB T - 72"	LF		1/1/2007		$287.39
0450 1 78	PRESTRESSED BEAMS, BULB T - 78"	LF		1/1/2007		$314.98
0450 1201	PREST BEAMS, TYPE II, MODIFIED	LF		1/1/2007		$209.25
0450 1202	PREST BEAMS, TYPE III, MODIFIED	LF		1/1/2007		$140.50
0450 1203	PRESTRESSED BEAMS, TYPE IV MODIFIED	LF		1/1/2007		$192.95
0450 1250	PRESTRESSED BEAMS, INVERTED T 20"	LF		1/1/2007		$92.80

450- 3- AB PRESTRESSED SLAB UNITS

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Intended for non-post-tensioned prestressed bridge deck panels w/ concrete wearing surface.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's 4.4

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **450- 3- AB** **PRESTRESSED SLAB UNITS** **LF**

A = Width
1 (48")
2 (60")
3 (96")
4 (72")
5 (36")
6 (54")
7 (57")

B = Thickness
1 (12")
2 (16")
3 (10")
4 (18")
5 (15")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0450 3 11	PRESTRESSED SLAB UNITS, WIDTH 48", THICKNESS 12"	LF		1/1/2007		$215.82
0450 3 15	PRESTRESSED SLAB UNITS, WIDTH 48", THICKNESS 15"	LF		1/1/2007		$215.82
0450 3 21	PRESTRESSED SLAB UNITS, WIDTH 60", THICKNESS 12"	LF		1/1/2007		$300.00
0450 3 22	PRESTRESSED SLAB UNITS, WIDTH 60", THICKNESS 16"	LF		1/1/2007		$192.33
0450 3 41	PRESTRESSED SLAB UNITS, WIDTH 72", THICKNESS 12"	LF		1/1/2007		$300.00
0450 3 55	PRESTRESSED SLAB UNITS, WIDTH 36", THICKNESS 15"	LF		1/1/2007		$224.41
0450 3 62	PRESTRESSED SLAB UNITS, WIDTH 54", THICKNESS 16"	LF		1/1/2007		$300.00
0450 3 72	PRESTRESSED SLAB UNITS, WIDTH 57", THICKNESS 16"	LF		1/1/2007		$300.00

450- 4-AAA PRESTRESSED BEAM (FLORIDA U-BEAM)

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details

Intended for prestressed Florida U-beams for bridge construction.
Summarize quantities by location per span.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN

QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 20210 thru 20299

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 450- 4-AAA PRESTRESSED BEAM (FLORIDA U-BEAM) LF

AAA =
1 (48")
2 (54")
3 (63")
4 (72")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0450 4 2	PRESTRESSED BEAM- FL U-BEAM, 54"	LF		1/1/2007		$550.00
0450 4 4	PRESTRESSED BEAM- FL U-BEAM,72"	LF		1/1/2007		$603.33

450- 82- BEAM REPAIR

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Intended for rehabilitation projects to strengthen or repair existing concrete beams. Show locations in plans. Include pay item note to clarify payment for various work items.
See also item 450-83.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **450- 82-** **BEAM REPAIR** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0450 82	BEAMS REPAIR	LF	T	1/1/2007		$0.00

450- 83- A BEAM REPAIR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Intended for rehabilitation projects to strengthen or repair existing concrete beams. Show locations in plans. Include pay item note to clarify payment for various work items.
See also item 450-82.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **450- 83- A** **BEAM REPAIR** **EA**

A =
1 (Strand Splices)
2 (Bar Splices)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0450 83 1	BEAM REPAIR (STRAND SPLICE)	EA	T	1/1/2007		$425.00

450- 88- AA PRESTRESSED SLAB UNITS TRANSVERSELY POST TENSIONED

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** no

Notes

Details Intended for post-tensioned prestressed bridge deck panels w/ concrete or asphalt wearing surface.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-01
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other	SDG's 4.4	
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **450- 88- AA** **PRESTRESSED SLAB UNITS TRANSVERSELY POST TENSIONED** **SF**

AA =
12 (12")
14 (14")
15 (15")
16 (16")
18 (18")
19 (19")
20 (20")
21 (21")
24 (24")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0450 88 15	PRESTRESSED SLAB UNITS TRANSVERSELY POST TENSIONED, 15"	SF	T	1/1/2007		$0.00
0450 88 18	PRESTRESSED SLAB UNITS TRANSVERSELY POST TENSIONED, 18"	SF	T	1/1/2007		$0.00

451- 70- AA PRESTRESSED SOIL ANCHOR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For permanent applications only. Do not pay for separately when prestressed soil anchors are part of a temporary steel sheet pile wall system. Intended for payment of prestressed soil anchor, proof and creep test. See specification 451-12. Show anchor spacing and force/anchor.
Show locations in plans w/ quantity block.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **451- 70- AA** **PRESTRESSED SOIL ANCHOR** **EA**

AA =
Blank (F&I, With Standard Tests)
1 (Performance Test)
2 (Creep Test)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0451 70	PREST SOIL ANCHORS	EA		1/1/2007		$3,721.07
0451 70 1	PRESTRESSED SOIL ANCHOR, PERFORMANCE TEST	EA		1/1/2007		$733.44
0451 70 2	PRESTRESSED SOIL ANCHOR, CREEP TEST	EA		1/1/2007		$1,448.14

452- 70- PRECAST SEGMENT PRODUCTION

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details Intended to cover for segmental casting yard set-up costs. Required on all Precast Segmental Bridge Projects.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **452- 70-** **PRECAST SEGMENT PRODUCTION** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0452 70	PRECAST SEGMENT PRODUCTION	LS		1/1/2007		$0.00

455- 2- A TREATED TIMBER PILING

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details

Designer must verify material requirements with State Materials Lab prior to requesting item.

Intended for temporary detour bridge applications, or special use structures. Summarize quantities by location per bent. The quantity to be paid for shall be the length, in feet (meters), of piling actually remaining in the completed structure below the elevation of cut-off shown in the plans or designated by the Engineer.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **455- 2- A** **TREATED TIMBER PILING** **LF**

A = Treatment
Blank (Single Treatment)
1 (Dual Treatment)

Notes Designer must verify material requirements with State Materials Lab prior to requesting item.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455 2	TREATED TIMBER PILING	LF	T	1/1/2007		$38.62

455- 14- AA CONCRETE SHEET PILING

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Intended for concrete sheet pile walls. Show locations in plans. Include quantity block in plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index 20400 thru 20440

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **455- 14- AA** **CONCRETE SHEET PILING** **LF**

A =
1 (7" X 30")
2 (8" X 30")
3 (10" X 30")
4 (12" X 30")
5 (Special)
6 (6" X 30")
7 (5" X 24")
8 (6" X 48")

9 (6" X 36")
10 (9" X 48")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455 14 2	CONCRETE SHEET PILING, 8"X30"	LF		1/1/2007		$150.00
0455 14 3	CONCRETE SHEET PILING, 10"X30"	LF		1/1/2007		$137.39
0455 14 4	CONCRETE SHEET PILING, 12"X30"	LF		1/1/2007		$260.35
0455 14 5	CONCRETE SHEET PILING,SPECIAL	LF		1/1/2007		$232.80

455- 18- PROTECTION OF EXISTING STRUCTURES

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

Intended for projects where impacts of construction vibration on adjacent existing structures is a concern. Survey existing older bridges and monitor vibration/settlement of existing structures located within a few hundred feet of the following construction operations: pile driving, drilled shaft excavations, blasting, vibro-compaction, steel sheet pile installations, well point dewatering systems, etc. Of special concern are old bridge structures on timber piles, existing retaining walls, existing building on shallow foundations, etc.
List in the plans adjacent to structures not covered under 455-1.1 that require surveying and vibration monitoring, or structures that require special attention during construction

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Soils and Foundations Handbook 7.1.6, 9.2.4

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **455- 18-** **PROTECTION OF EXISTING STRUCTURES** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455 18	PROTECTION OF EXISTING STRUCTURES	LS	T	1/1/2007		$16,311.10

455- 34- AA PRESTRESSED CONCRETE PILING

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **Effective January 2009- refer to specification changes for dynamic load tests.**

Details For projects let January 2009 and later: Intended to cover cost and installation of the square prestressed concrete piling.
Design quantity computed as the total anticipated length of pile WITHOUT ALLOWANCES for cutoffs, splices, dynamic load tests, or preforming. Construction Final Quantity will be adjusted based on allowances, per the specifications.
Related item 455-143, except for fender system piling, & piling for soldier pile walls.

For projects let through December 2008: Intended to cover cost and installation of the square prestressed concrete piling.
Quantity computed as the total anticipated length of pile without allowances for cutoffs, splices or preforming. Related items 455-143 & 455-137, except for fender system piling, & piling for soldier pile walls

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-08
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Detailed calculations are required in computation book to reflect actual scope of work.
Construction Final tabulation of quantities must be recorded on proper form in computation book by location.

References **PPM Chapter**
Other SDG's 3.5
Standards Index 20600 thru 20631.
Specifications
Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **455- 34- AA** **PRESTRESSED CONCRETE PILING** **LF**

A =
1 (12" Sq.)
2 (14" Sq.)
3 (18" Sq.)
4 (20" Sq.)
5 (24" Sq.)
6 (30" Sq.)
7 (36" Sq.)
8 (Special)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455 34 1	PRESTRESSED CONCRETE PILING, 12" SQ.	LF		1/1/2007		$207.68
0455 34 2	PRESTRESSED CONCRETE PILING, 14" SQ.	LF		1/1/2007		$62.50
0455 34 3	PRESTRESSED CONCRETE PILING, 18" SQ	LF		1/1/2007		$84.29
0455 34 4	PRESTRESSED CONCRETE PILING, 20" SQ	LF		1/1/2007		$150.00
0455 34 5	PRESTRESSED CONCRETE PILING, 24" SQ	LF		1/1/2007		$120.11
0455 34 6	PRESTRESSED CONCRETE PILING, 30" SQ	LF		1/1/2007		$85.50
0455 34 8	CONCRETE PILING PRESTRESSED, SPECIAL	LF		1/1/2004		$200.00

455- 35- AA PILING, STEEL

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Intended to cover cost and installation of the steel “H” or pipe piling.
Quantity computed as the total anticipated length of pile without allowances for cutoffs, splices or preforming

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-08

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Detailed calculations are required in computation book to reflect actual scope of work.

Construction Final tabulation of quantities must be recorded on proper form in computation book by location.

References **PPM Chapter**

Other SDG’s 3.5

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455- 35- AA** **PILING, STEEL** **LF**

AA =
1 (Hp 8 X 36)
2 (Hp 10 X 36)
3 (Hp 10 X 42)
4 (Hp 12 X 53)
5 (Hp 14 X 73)
6 (Hp 14 X 89)
7 (Hp 14 X102)
8 (Hp 14 X 117)
9 (Special)

20 (18” Dia Pipe)
21 (20" Dia. Pipe)
22 (24" Dia. Pipe)
23 (30" Dia. Pipe)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455 35 4	STEEL PILING, HP 12 X 53	LF		1/1/2007		$62.82
0455 35 5	STEEL PILING, HP 14 X 73	LF		1/1/2007		$97.03
0455 35 6	STEEL PILING, HP 14 X 89	LF		1/1/2007		$83.97
0455 35 8	STEEL PILING, HP 14 X 117	LF		1/1/2007		$166.17
0455 35 9	STEEL PILING, SPECIAL	LF	T	1/1/2007		$388.25
0455 35 21	STEEL PILING, 20" DIA. PIPE	LF		1/1/2007		$114.27
0455 35 22	STEEL PILING, 24" DIA. PIPE	LF		1/1/2007		$200.00
0455 35 23	STEEL PILING, 30" DIA. PIPE	LF		1/1/2007		$395.57

455- 36- A CONCRETE CYLINDER PILES- FURNISHED & DRIVEN

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Intended to cover cost and installation of the concrete cylinder piling.
Quantity computed as the total anticipated length of pile without allowances for cutoffs, splices or preforming.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-08

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Detailed calculations are required in computation book to reflect actual scope of work.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG’s 3.5

Standards Index 20654, 20660.

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455- 36- A** **CONCRETE CYLINDER PILES- FURNISHED & DRIVEN** **LF**

A =

1 (54" Dia.)
2 (60" Dia.)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

455- 37- A FIBERGLASS STRUCTURALLY REINFORCED COMPOSITE PILES

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes **Effective January 2007. Formerly titled "Fender System, Plastic Composite Piles"**

Details to be used with Fender System, Section 471. Refer to Design Standards and Specifications for additional information.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-08

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **455- 37- A** **FIBERGLASS STRUCTURALLY REINFORCED COMPOSITE PILES** **LF**

A= Size
1 (13" Diameter) to be opened only with Structures Design Approval
2 (16" Diameter)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455 37 2	FIBERGLASS STRUCTURALLY REINFORCED COMPOSITE PILE, 16" D	LF		1/1/2007		$117.50

455- 39- A MINIPILE FOUNDATION SYSTEMS- FURNISH AND INSTALL

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for strengthening existing bridges or used on new structures that have restricted overhead room. Payment is per each; length is determined by the contractor's specialty engineer. Minimum tip elevation and minimum casing lengths shall be shown in the plans. Use requires State Structures Design Office approval.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-08
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other	Soils and Foundations Handbook 8.2.5	
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455- 39- A** **MINIPILE FOUNDATION SYSTEMS- FURNISH AND INSTALL** **EA**

A= Nominal Pile Diameter
blank (unspecified)
1 (10" Diameter)
2 (12" Diameter)
3 (14" Diameter)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

455- 76- WRAP PILE CLUSTERS

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Repair/Rehab Projects only.
Intended on fender repair projects.
Show locations in plans w/ quantity block.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455- 76-** **WRAP PILE CLUSTERS** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455 76	WRAP PILE CLUSTERS	EA		1/1/2007		$540.89

455- 81-ABB CATHODIC PROTECTION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Intended for Pile or Pier installation of Zinc or Titanium anode, installed as routine maintenance on H-piles and steel sheet piles used for seawalls. Show locations in plans with quantity block. Contact State Materials Office, Corrosion Lab for assistance in use of this item.

Electrical Work paid under item 400-60-A.

DO NOT USE this item with 400-142 (Cathodic Protection for mass concrete or structural components) or 457 items (integral pile jackets).

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 400-60 **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455- 81-ABB** **CATHODIC PROTECTION** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB =
01 (Pile, Zinc Anode Assembly)
02 (Pier, Zinc Anode Assembly)
04 (Pile, Titanium Anode Assembly)
05 (Pier, Titanium Anode Assembly)
06 (Other)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455 81101	CATHODIC PROTECTION, F&I, PILE, ZINC ANODE ASSEMBLY PROTECTION	EA		1/1/2007		$1,148.86
0455 81104	CATHODIC PROTECTION, F&I, PILE, TITANIUM ANODE PROTECTION	EA		1/1/2007		$10,373.86

455- 87- STEEL ANCHOR BAR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for wall anchor tiebacks to connect wall to dead men, or anchor piles. Not for prestressed soil anchor applications.
Show locations in plans w/ quantity block. Design for sacrificial thickness and coat with coal tar epoxy, if required

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455- 87-** **STEEL ANCHOR BAR** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455 87	ANCHOR BAR, STEEL	EA		1/1/2007		$1,275.51

455- 88- AA DRILLED SHAFT

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Intended to pay for the cost of concrete and steel, temporary casing, all labor, materials, equipment and incidentals necessary to complete the drilled shaft. Length is measured from top-of-shaft elevation to the design tip elevation shown in the plans. Pay Item 455-122-XAA is required with this item. Pay Item 455-122 covers the cost of the shaft excavation. Clearly specify in plans CSL testing requirements as required. Cost of Shaft Inspection Device included in cost of drilled shaft, 455- 88-XAA. CSL tubes included under 455- 88-XAA. CSL testing paid for under Item 455-142.

Related Items **Required** 455-122 (2455-122) **Recommended** 455-142 when CSL testing is required

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 3.6

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **455- 88- AA** **DRILLED SHAFT** **LF**

AA =
1 (24" Dia.)
2 (30" Dia.)
3 (36" Dia.)
4 (42" Dia.)
5 (48" Dia.)
6 (60" Dia.)
7 (72" Dia.)
8 (54" Dia.)
9 (66" Dia.)
19 (90" Dia.)
20 (108" Dia.)
21 (96" Dia.)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455 88 3	DRILLED SHAFT, 36" DIA	LF		1/1/2007		$270.23
0455 88 4	DRILLED SHAFT, 42" DIA	LF		1/1/2007		$507.30
0455 88 5	DRILLED SHAFT, 48" DIA	LF		1/1/2007		$380.15
0455 88 6	DRILLED SHAFT, 60" DIA	LF		1/1/2007		$482.00
0455 88 7	DRILLED SHAFT, 72" DIA	LF		1/1/2007		$947.63
0455 88 8	DRILLED SHAFT, 54" DIA	LF		1/1/2007		$419.55
0455 88 21	DRILLED SHAFT, 96" DIA	LF		1/1/2007		$600.00

455- 89- AA DRILLED SHAFT TIP GROUTING

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for the post grouting of drilled shaft tips after installation. The item includes all materials, hardware, and labor to perform the work.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 455-122 (2455-122), 455-88- AA (2455- 88- AA) **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 3.6

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **455- 89- AA** **DRILLED SHAFT TIP GROUTING** **EA**

AA =
1 (24" Dia.)
2 (30" Dia.)
3 (36" Dia.)
4 (42" Dia.)
5 (48" Dia.)
6 (60" Dia.)
7 (72" Dia.)
8 (54" Dia.)
9 (66" Dia.)

19 (90" Dia.)
20 (108" Dia.)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

455-101- A LOAD TEST- OSTERBERG

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended to load test drilled shafts using Osterberg Cells. Show location and test load of o-cells test shafts. Show number and depth of o-cells for each test shaft.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 455-129-XXA **Recommended** 455-131- and 455-132- required for test located on water.

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other Soils and Foundations Handbook 10.3.3
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **455-101- A** **LOAD TEST- OSTERBERG** **EA**

A =
1 (Less Than 5 Cells)
2 (5 Or More Cells)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455101 1	TEST LOAD, OSTERBERG CELL, LESS THAN FIVE CELLS	EA	T	1/1/2007		$200,000.00

455-103-ABB LOAD TEST- STATNAMIC

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for Statnamic load testing of piles or drilled shafts. Show location and test load of test shafts or piles.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 455-129- A **Recommended** 455-131- and 455-132- required for test located on water.

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Soils and Foundations Handbook 10.3.1

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-103-ABB** **LOAD TEST- STATNAMIC** **EA**

A = Type
1 (Compression)
2 (Lateral)

BB = Test Capacity
01 (100 Tons)
02 (200 Tons)
03 (300 Tons)
04 (400 Tons)
05 (500 Tons)
06 (600 Tons)
07 (700 Tons)
08 (800 Tons)
09 (900 Tons)
10 (1000 Tons)
11 (1100 Tons)
12 (1200 Tons)
13 (1300 Tons)
14 (1400 Tons)
15 (1500 Tons)
16 (1600 Tons)
30 (3000 Tons)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455103110	LOAD TEST - STATNAMIC, COMPRESSION, 1000TN	EA	T	1/1/2007		$200,000.00

455-107- AA DRILLED SHAFT CASING

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Intended on drilled shaft projects when plans require permanent casing method be used. Permanent casing is typically not paid for separately for portions of shaft in waterway unless permanent casing method is required for shaft below the mud line. Show locations and depths in drilled shaft data table.

Related Items **Required** 455-122- AA, 455-88- AA **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 3.6

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-107- AA** **DRILLED SHAFT CASING** **LF**

AA =
1 (24" Dia.)
2 (30" Dia.)
3 (36" Dia.)
4 (42" Dia.)
5 (48" Dia.)
6 (60" Dia.)
7 (72" Dia.)
8 (54" Dia.)
9 (66" Dia.)
18 (84" Dia.)
19 (90" Dia.)
20 (108" Dia.)
21 (96" Dia)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455107 3	DRILLED SHAFT CASING, 36" DIAMETER	LF		1/1/2007		$192.02
0455107 4	DRILLED SHAFT CASING, 42" DIAMETER	LF		1/1/2007		$130.00
0455107 5	DRILLED SHAFT CASING, 48" DIAMETER	LF		1/1/2007		$146.67
0455107 6	DRILLED SHAFT CASING, 60" DIAMETER	LF		1/1/2007		$150.00
0455107 7	DRILLED SHAFT CASING, 72" DIAMETER	LF		1/1/2007		$660.00
0455107 21	DRILLED SHAFT CASING, 96" DIAMETER	LF		1/1/2007		$725.00

455-111- CORE/PILOT HOLE- DRILLED SHAFT EXCAVATION

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details

Intended for payment of pilot holes or cores for drilled shaft projects to determine the quality of the material below the tip.
Pilot holes are taken at shaft locations prior to shaft excavation.
Cores are taken below the tip of an excavated shaft.
Pilot holes or cores when deemed necessary, are typically taken 3 to 5 shaft diameters below the shaft's planned tip elevation. Use 3 shaft diameters unless otherwise noted in the plans.
Show location in the plans. Clarify whether pilot holes or cores are to be taken. Base quantity on the anticipated pilot hole and/or core length needed. Include pay item note.

Establish quantities as follows: Cores: measured from the bottom of shaft elevation to the bottom of the core (3 to 5 shaft diameters below tip); Pilot holes: measured from the ground elevation to the bottom elevation of the pilot hole (3 to 5 shaft diameters below tip).

Related Items **Required** 455- 88- AA, 455-122- AA **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-111-** **CORE/PILOT HOLE- DRILLED SHAFT EXCAVATION** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455111	CORE-PILOT HOLE, DRILLED SHAFT EXCAVATION	LF		1/1/2007		$27.29

455-112- A PILE- AUGER GROUTED

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Intended for payment of auger cast piles to support miscellaneous structures. Do not use with Pay Item 534- 72-1AA. Cost of sound barrier foundations included in the cost of sound barrier wall. Not for use to support bridge structures.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Soils and Foundations Manual 8.2.4, SDG's 3.1

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **455-112- A** **PILE- AUGER GROUTED** **LF**

A =
1 (16" Diameter)
2 (14" Diameter)
3 (24" Diameter)
4 (30" Diameter)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455112 3	PILE AUGER GROUTED, 24" DIA	LF		1/1/2007		$40.00

455-119-ABB LOAD TEST- STATIC

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for static axial or lateral load testing of piles or drilled shafts. Not used for Osterberg- Cell or Statnamic tests. Show location and test load in plans.

Related Items **Required** 455-129- A **Recommended** 455-131- and 455-132- required for test located on water.

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other Soils and Foundations Handbook 10.3.1
Standards
Specifications
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-119-ABB** **LOAD TEST- STATIC** **EA**

A = Type Load
1 (Compression)
2 (Tension)
3 (Lateral)

BB = Amount Of Load
01 (0 - 50 Tons)
02 (51 - 100 Tons)
03 (101 - 600 Tons)
04 (601 -1200 Tons)
05 (1201-1800 Tons)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455119103	LOAD TEST-STATIC, COMPRESSION,101-600 TONS	EA		1/1/2007		$20,000.00
0455119201	LOAD TEST-STATIC, TENSION, 0-50 TONS	EA		1/1/2007		$20,000.00
0455119301	LOAD TEST-STATIC, LATERAL, 0-50 TONS	EA		1/1/2007		$20,000.00

455-120- A PILE POINT PROTECTION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for steel “H” or pipe piling and steel sheet piling projects when borings show soils that may be difficult to penetrate. Show locations in plans w/ quantity block

Related Items **Required** 455- 35, 455-133 **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-120- A** **PILE POINT PROTECTION** **EA**

A =
1 (HP 14" X 89)
2 (20" Sq.)
3 (24" Sq.)
4 (HP 14 X 117)
5 (HP 14" X 73")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455120 1	PILE POINT PROTECTION, HP 14" X 89"	EA		1/1/2007		$250.00
0455120 2	PILE POINT PROTECTION, 20" SQ	EA		1/1/2007		$250.00
0455120 3	PILE POINT PROTECTION, 24"	EA		1/1/2007		$20,000.00
0455120 4	PILE POINT PROTECTION, HP 14" X 117"	EA		1/1/2007		$450.00

455-122- AA UNCLASSIFIED SHAFT EXCAVATION

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Intended for the excavation of the drilled shafts. Pay Item 455-88-XAA is required with this item. Quantity is the depth of excavated hole from ground elevation to tip of shaft.

Related Items **Required** 455- 88- AA **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other SDG's 3.6
Standards
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-122- AA** **UNCLASSIFIED SHAFT EXCAVATION** **LF**

AA =
1 (24" Diameter.)
2 (30" Diameter.)
3 (36" Diameter.)
4 (42" Diameter.)
5 (48" Diameter.)
6 (60" Diameter.)
7 (72" Diameter.)
8 (54" Diameter.)
9 (66" Diameter.)
19 (90" Diameter.)
20 (108" Diameter.)
21 (96" Diameter.)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455122 3	EXCAVATION UNCLASSIFIED SHAFT, 36" DIA	LF		1/1/2007		$139.70
0455122 4	EXCAVATION UNCLASSIFIED SHAFT, 42" DIA	LF		1/1/2007		$173.81
0455122 5	EXCAVATION UNCLASSIFIED SHAFT, 48" DIA	LF		1/1/2007		$215.71
0455122 6	EXCAVATION UNCLASSIFIED SHAFT, 60" DIA	LF		1/1/2007		$240.00
0455122 7	EXCAVATION UNCLASSIFIED SHAFT, 72" DIA	LF		1/1/2007		$816.28
0455122 8	EXCAVATION UNCLASSIFIED SHAFT, 54" DIA	LF		1/1/2007		$252.19
0455122 21	EXCAVATION UNCLASSIFIED SHAFT, 96" DIA	LF		1/1/2007		$250.00

455-129- A INSTRUMENTATION AND DATA COLLECTION

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details Intended for use with all static, statnamic and Osterberg Cell load tests.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 455-101, 455-103, or 455-119 **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for

Specification tolerances.

References **PPM Chapter**

Other Soils and Foundations Handbook 10.3

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-129- A** **INSTRUMENTATION AND DATA COLLECTION** **LS/LS**

A =
1 (Pile Foundation)
2 (Drilled Shaft Foundation)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455129 2	INSTRUMENTATION & DATA COLLECT, DRILL SHAFT FOUND	LS		1/1/2007		$20,000.00

455-131- PLATFORM, WORKING SERVICE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for access platform at pile/shaft test site. Use with all static, statnamic and Osterberg Cell load test projects when tests are located in waterway or on land tests where access is difficult.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 455-101, 455-103, or 455-119 **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-131-** **PLATFORM, WORKING SERVICE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

455-132- PLATFORM, REMOTE OBSERVATION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Intended for survey platform at test pile/shaft. Use with all static, statnamic and Osterberg Cell load test projects when tests are located in waterway or on land tests where access is difficult.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

Required 455-101, 455-103, or 455-119

Recommended

Forms

Design SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status **Inactive Structure**

Struct. **455-132-** **PLATFORM, REMOTE OBSERVATION** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

455-133- A SHEET PILING, STEEL

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** yes

Notes

Details

PERMANENT: Complete designs and details must be provided in the plans including the Steel sheeting section, begin and end stations, top and bottom pile elevations.

TEMPORARY: This item should be utilized for temporary sheet pile installations that are installed at “critical locations.” Critical walls” are walls necessary to maintain the safety of the traveling public or structural integrity of nearby structures, roadways and utilities during construction.
For temporary critical walls requiring soil anchors, dead men etc., provide full details in plans (design of wale, soil anchor spacing and load, dead men anchor, number of proof test and creep test required, etc.).
Complete design and details must be provided in the plans
including the section modulus, begin and end stations, top and bottom pile elevations. See 455-12.6.2 for additional information.
TRNS*PORT Category: When walls are used for construction of a structure and shown in the structures plans, load the item in the corresponding structures category. When walls are used for other applications (roadway or utilities), load the item in the corresponding category.
MEASUREMENT: The area to be paid for will be measured from top of pile elevation to bottom of pile elevation and longitudinally from beginning to end of wall, as shown in the plans.
PAYMENT: PLAN QUANTITY will be the basis of payment to the contractor. No separate payment will be made for the cost of the anchor system for anchored

Related Items **Required** **Recommended** 455-120

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG’s 3.5

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **455-133- A** **SHEET PILING, STEEL** **SF**

A =
2 (Temporary- Critical)
3 (Furnish & Install Permanent)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455133 2	SHEET PILING STEEL, TEMPORARY-CRITICAL	SF		1/1/2007		$14.66
0455133 3	SHEET PILING STEEL, F&I PERMANENT	SF		1/1/2007		$54.84

455-137- LOAD TEST- DYNAMIC

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Valid through December 2008; refer to specification changes for Section 455.**

Details For Project let January 2009 and later: No separate payment will be made for Dynamic Load Tests. For Test Piles, Dynamic Load tests will be incidental to the Test Piling. For Production piles, Dynamic Load Test will be paid as additional length of piling, according to Section 455 of the specifications.

For projects let through December 2008: Intended on driven piling projects for PDA testing. Quantity given should be equal to the number of test piles called out on the Foundations Layout Sheet.

Related Items **Required** 455-143-XAA, 455-144-XAA, 455-145-XXA **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Soils and Foundation Handbook 10.1, 10.2

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-137-** **LOAD TEST- DYNAMIC** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455137	TEST LOAD- DYNAMIC	EA		1/1/2007	12/31/2008	$2,196.43

455-142- CROSSHOLE SONIC LOGGING

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for integrity testing of drilled shafts. CSL tubes are required to be placed in all drilled shafts, but only a portion of shafts will actually be tested. Determine number of shafts to be CSL tested; identify shafts in the plans.
This pay item should NOT be included for projects containing only miscellaneous structures with drilled shafts smaller than 60 inches in diameter.
If the Engineer suspects defects in a drilled shaft installation, additional CSL testing may be required If the installation is found to be defective, no additional payment will be made for testing or required corrections. If the installation is found to meet specifications, then payment for CSL testing will be made as unforeseeable work.

Related Items **Required** 455-88, 455-122-XAA **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other Soils and Foundation Handbook 10.4.2, 10.4.3

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-142-** **CROSSHOLE SONIC LOGGING** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455142	CROSSHOLE SONIC LOGGING	EA	T	1/1/2007		$2,242.60

455-143- AA TEST PILES- PRESTRESSED CONCRETE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details

For Projects let January 2009 and later: Intended to cover cost and installation of the prestressed concrete test piling. Includes the payment for dynamic load test on test piles. Quantity computed as the total anticipated length of pile, without allowances for cutoffs, splices, or preforming.

For projects let through December 2008: Intended to cover cost and installation of the prestressed concrete test piling. PDA paid for separately under item 455-137. Intended to cover cost and installation of the prestressed concrete piling. Quantity computed as the total anticipated length of pile, without allowances for cutoffs, splices, or preforming.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 455-137, 455-34 **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other Soils and Foundation Handbook 10.1, 10.2

Standards

Specifications

***Selected Items may require Tech Spec and/or Plan Detail**

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-143- AA** **TEST PILES- PRESTRESSED CONCRETE** **LF**

AA =
1 (12" Sq.)
2 (14" Sq.)
3 (18" Sq.)
4 (20" Sq.)
5 (24" Sq.)
6 (30" Sq.)
7 (36" Dia)
8 (Special)*

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455143 1	TEST PILES-PRESTRESSED CONCRETE,12" SQ	LF		1/1/2007		$180.00
0455143 3	TEST PILES-PRESTRESSED CONCRETE,18" SQ	LF		1/1/2007		$210.61
0455143 4	TEST PILES-PRESTRESSED CONCRETE,20" SQ	LF		1/1/2007		$200.00
0455143 5	TEST PILES-PRESTRESSED CONCRETE,24" SQ	LF		1/1/2007		$277.13
0455143 6	TEST PILES-PRESTRESSED CONCRETE,30" SQ	LF		1/1/2007		$595.00

455-144- AA TEST PILES- STEEL

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details

Intended to cover cost and installation of the steel test piling. PDA paid for separately under item 455-137.
Design quantity computed as the total anticipated length of test pile without allowances for cutoffs, splices or preforming. Show locations on Foundation Layout Sheet. Give test pile lengths in Pile Installation Table.

Construction/Final quantity for Test Piles is computed as follows:
(Sum of test pile lengths) + [(0.3) x Sum of required preformed pile hole depths for test piles]
Do not add allowances for splices.

Include quantity for preformed holes only if preforming is known to be required and shown in the plans. Do not use as contingency.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of

payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 455-137, 455-34 **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Soils and Foundation Handbook 10.1, 10.2

Standards

Specifications

***Selected Items may require Tech Spec and/or Plan Detail**

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-144- AA** **TEST PILES- STEEL** **LF**

AA =
1 (Hp 8 X 36)
2 (Hp 10 X 36)
3 (Hp 10 X 42)
4 (Hp 12 X 53)
5 (Hp 14 X 73)
6 (Hp 14 X 89)
7 (Hp 14 X 102)
8 (Hp 14 X 117)
9 (Special)*
20 (18" Dia Pipe)
21 (20" Dia Pipe)
22 (24" Dia Pipe)
23 (30" Dia Pipe)

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455144 6	TEST PILES - STEEL, HP 14 x 89	LF		1/1/2007		$136.00
0455144 8	TEST PILES - STEEL, HP 14 x 117	LF		1/1/2007		$382.50
0455144 9	TEST PILES - STEEL, SPECIAL	LF		1/1/2007		$366.25
0455144 21	TEST PILES - STEEL, 20" DIA PIPE	LF		1/1/2007		$182.62
0455144 22	TEST PILES - STEEL, 24" DIA PIPE	LF		1/1/2007		$150.00
0455144 23	TEST PILES - STEEL, 30" DIA PIPE	LF		1/1/2007		$519.35

455-145- A **TEST PILE- CONCRETE CYLINDER PILES**

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Intended to cover cost and installation of the prestressed concrete test piling. PDA paid for separately under item 455-137.
Design quantity computed as the total anticipated length of test pile without allowances for cutoffs, splices or preforming. Show locations on Foundation Layout Sheet. Give test pile lengths in Pile Installation Table.

Construction/Final quantity for Test Piles is computed as follows:
(Sum of test pile lengths) + [(0.3) x Sum of required preformed pile hole depths for test piles]
Do not add allowances for splices.

Include quantity for preformed holes only if preforming is known to be required and shown in the plans. Do not use as contingency.

Related Items **Required** 455-137, 455-34 **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other Soils and Foundation Handbook 10.1, 10.2
Standards
Specifications
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-145- A** **TEST PILE- CONCRETE CYLINDER PILES** **LF**

A =
1 (54" Dia.)
2 (60" Dia.)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

455-146- EMBEDDED DATA COLLECTOR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective January 2007. Implemented by mandatory specification change and Structures Temporary Design Bulletin**

Details to be used with all prestressed concrete test piles. Estimate a quantity of 1 per test pile. Each collector system will include gauges at the top and tip, as well as antenna and incidental equipment for installation in each pile, as shown in the standard.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design**
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards Interim 20602
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **455-146-** **EMBEDDED DATA COLLECTOR** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0455146	EMBEDDED DATA COLLECTOR	EA		1/1/2007		$2,328.89

457- 1- AB STANDARD INTEGRAL PILE JACKET

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **New Item effective 1-1-2009; replaces 457-70 items**

Details Intended for rehabilitation projects to repair concrete pile damage or to protect sheet piles. Project details (plans or specs) must include jacket lengths. Grout material(s) should be specified in the plans or specifications. Epoxy Grout filler may be used ONLY with permission of the State Materials Office, Corrosion Lab.

Estimate quantity based on measurement from the bottom of the form to the top of the form, per the specifications. Show locations in plans w/ quantity block. Contact State Materials Office, Corrosion Lab for assistance in use of this item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **457- 1- AB** **STANDARD INTEGRAL PILE JACKET** **LF**

A = Type
1 (non-structural)
2 (Structural)

B= Pile Size
1 (up to 16")
2 (16.1 to 30")
3 (30.1 and larger)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

457- 2- AB **CATHODIC PROTECTION INTEGRAL PILE JACKET**

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **New Item effective 1-1-2009; replaces 457-71 items**

Details Intended for rehabilitation projects to repair concrete pile corrosion damage. Project details (plans or specs) must include jacket lengths, anode type and configuration, as well as connection methods and materials for cathodic protection. Grout material(s) should be specified in the plans or specifications.

Estimate quantity based on measurement from the bottom of the form to the top of the form, per the specifications. Show locations in plans w/ quantity block. Contact State Materials Office, Corrosion Lab for assistance in use of this item.

Electrical Work will be paid under 400-60, when required for impressed current jackets. For galvanic jackets, include a note in the plans or specifications indicating that electrical work is incidental to the cost of the integral Cathodic protection pile jacket.

See items 400-142 (structure) and 455-81 (pier or pile) for other Cathodic Protection work.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 400- 60- **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **457- 2- AB** **CATHODIC PROTECTION INTEGRAL PILE JACKET** **LF**

A = Type
1 (non-structural)
2 (Structural)

B= Pile Size
1 (up to 16")
2 (16.1 to 30")
3 (30.1 and larger)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0457 2 12	CATHODIC PROTECTION INTEGRAL PILE JACKET, NON-STRUCTURAL, 16.1-30."	LF	T	1/1/2009		$1.00

457- 70-ABB INTEGRAL PILE JACKET

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **Valid through 12-31-2008; replaced by 457-1 and 457- 2 items**

Details Intended for rehabilitation projects to repair concrete pile corrosion damage or to protect steel piles. Contact State Materials Office, Corrosion Lab for assistance in use of this item. Show locations in plans w/ quantity block.

Grout material(s) and jacket lengths should be specified in the plans or specifications. Epoxy Grout filler may be used ONLY with permission of the State Materials Office, Corrosion Lab.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **457- 70-ABB** **INTEGRAL PILE JACKET** **LF**

A =
2 (Portland Cement Grout Filler)
3 (Class III Concrete Seal Filler)
4 (Others)

BB =
01 (12")
02 (14")
03 (15")
04 (16")
05 (18")
06 (20")
07 (21")
08 (22")
09 (24")
10 (27")
11 (30")

Notes A=1 blocked 4-8-08

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0457 70205	INTEGRAL PILE JACKET, PORT CEMENT GROUT FILLER, 18"	LF	T	1/1/2007		$2,043.50
0457 70206	INTEGRAL PILE JACKET, PORT CEMENT GROUT FILLER, 20"	LF	T	1/1/2007		$2,118.50
0457 70305	PILE JACKET INTEGRAL (CLASS III CONC FIL)(18")	LF		1/1/2007		$0.00
0457 70306	INTEGRAL PILE JACKET, CLASS III CONCRETE FILLER, 20"	LF	T	1/1/2007		$2,193.50
0457 70309	PILE JACKET INTEGRAL (CLASS III CONC FIL)(24")	LF		1/1/2007		$0.00
0457 70401	INTEGRAL PILE JACKET, OTHER, 12"	LF	T	1/1/2007		$810.00

457- 71- AB CATHODIC PROTECTION- INTEGRAL PILE JACKET

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **Valid through 12-31-2008; replaced by 457-2 items**

Details Coordinate with the State Materials Office, Corrosion Lab for assistance in use of this item. Intended for rehabilitation projects to repair piles with corrosion damage using cathodic protection. Show locations and jacket lengths in plans w/ quantity block.
Electrical Work paid under item 400-60-A.
See items 400-142 (structure) and 455-81 (pier or pile) for related work.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** 400- 60- **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Detail and/or Tech Spec Required
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **457- 71- AB** **CATHODIC PROTECTION- INTEGRAL PILE JACKET** **LF**

A =
1 (Galvanic Cathodic Protection Non-Structural)
2 (Galvanic Cathodic Protection Structural)
3 (Impressed Current Cathodic Protection Non-Structural)
4 (Impressed Current Cathodic Protection Structural)
5 (Other)

B= Pile Size
1 (up to 16")
2 (16.1 to 30")
3 (30.1 and larger)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0457 71 12	CATHODIC PROTECTION-INTEGRAL PILE JACKET, GALVANIC, NON-STRUCTURAL, 16.1 - 30"	LF	T	1/1/2007		$1,528.40
0457 71 22	CATHODIC PROTECTION-INTEGRAL PILE PROTECTION, GALVANIC, STRUCTURAL, 16.1 - 30"	LF	T	1/1/2007		$1,861.25
0457 71 33	CATHODIC PROTECTION-PILE JACKET, IMPRESSED CURRENT, NON-STRUCTURAL, 30.1" AND LARGER	LF	T	1/1/2007		$1,630.00

458- 1- AB BRIDGE DECK EXPANSION JOINT

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes **Effective January 2007. Replaces several joint seal items**

Details Refer to Design Standards and Specifications for selection and use of these joints.
Note: Tech Specs are required for selected items, as shown in the pay item structure.
For Bridge Approach Expansion Joints, refer to 370 items.
For Concrete Joint repairs in Structures, refer to 400 items.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03

	Construction	Refer to Comp Book
Documentation	**Design**	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 21110, 21100
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **458- 1- AB** **BRIDGE DECK EXPANSION JOINT** **LF**

A= Operation
1 (New Construction- F&I)
2 (Rehabilitation- Clean, Seal, Replace)

B= Type
1 (Poured Joint with Backer Rod)
2 (Strip Seal)
3 (Modular) Note: Tech Spec Required
4 (Finger Joint) Note: Tech Spec Required
5 (Compression Elastomeric) Note: For Rehab only
6 (Other)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0458 1 11	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&I POURED JOINT WITH BACKER ROD	LF		1/1/2007		$32.33
0458 1 12	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&I STRIP SEAL	LF		1/1/2007		$285.00
0458 1 13	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&I MODULAR	LF	T	1/1/2007		$30.00
0458 1 14	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&I FINGER JOINT	LF	T	1/1/2007		$1,983.33
0458 1 21	BRIDGE DECK EXPANSION JOINT, REHABILITATION, POURED JOINT WITH BACKER ROD	LF		1/1/2007		$40.13
0458 1 22	BRIDGE DECK EXPANSION JOINT, REHABILITATION, STRIP SEAL	LF		1/1/2007		$266.53
0458 1 23	BRIDGE DECK EXPANSION JOINT, REHABILITATION, MODULAR	LF	T	1/1/2007		$62.00
0458 1 24	BRIDGE DECK EXPANSION JOINT, REHABILITATION, FINGER JOINT	LF	T	1/1/2007		$0.00

0458 1 25	BRIDGE DECK EXPANSION JOINT, REHABILITATION, COMPRESSION ELASTOMERIC	LF	T	1/1/2007	$115.25
0458 1 26	BRIDGE DECK EXPANSION JOINT, REHABILITATION, OTHER	LF	T	1/1/2007	$107.50

459- 71- PILES, POLYETHYLENE SHEETING

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Intended on piling or drilled shaft projects to wrap portion of end bent pile or shaft within the fill height to reduce down-drag. Add note on Foundation Layout Sheet. Pay quantity is the pile area wrapped.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other Soils and Foundations Handbook 8.3.3

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **459- 71-** **PILES, POLYETHYLENE SHEETING** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0459 71	PILES, POLYETHYLENE SHEETING	SY		1/1/2007		$4.86

460- 1- AA STRUCTURAL STEEL- REHAB

Unit LB; KG **Accuracy** Pound; Kilogram **PlanQuantity?** yes

Notes

Details Do not use for new steel structures. This item will be used on all rehabilitation work only. Show steel quantities in quantity blocks on plans. Pay for painting of structural steel separately. Conduct lead based paint survey. Add general note to alert Contractor of existing lead based paint.

Related Items **Required** **Recommended** 560- 1

Forms **Design** SHTabQuant COMP 700-050-06

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN

QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **460- 1- AA** **STRUCTURAL STEEL- REHAB** **LB**

AA =
1 (Carbon)
2 (Low Alloy)
3 (Shoe Assemblies)
4 (Expansion Assemblies)
5 (Bascule Leaves)
6 (Bascule Piers)
7 (Approach Spans)
11 (Screws, Bolts And Washer Assemblies)
12 (Flanking Spans)
13 (Bolts, Nuts, Washers And Plates)
15 (Miscellaneous)
16 (Movable Span)
18 (Carbon, Truss)
19 (Low Alloy, Truss)
20 (Weathering)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0460 1 1	STRUCT STEEL- REHAB, CARBON	LB		1/1/2007		$10.22
0460 1 2	STRUCT STEEL (LOW ALLOY)	LB		1/1/2007		$0.00
0460 1 3	STRUCT STEEL - REHABILITATION, SHOE ASSEMBLIES	LB		1/1/2007		$0.00
0460 1 5	STRUCT STEEL - REHABILITATION, BASCULE LEAVES	LB		1/1/2007		$10.57
0460 1 11	STRUCTURAL STEEL REHAB- SCREWS,BOLTS & WASHER ASSEMBLIES	LB		1/1/2007		$21.39
0460 1 13	STRUCTURAL STEEL REHAB- BOLTS, NUTS, WASHERS & PLATES	LB		1/1/2007		$41.14
0460 1 15	STRUCTURAL STEEL - REHABILITATION, MISCELLANEOUS	LB		1/1/2007		$19.86

460- 2- AA **STRUCTURAL STEEL- NEW/WIDENING**

Unit LS/LB; LS/KG **Accuracy** Pound; Kilogram **PlanQuantity?** yes

Notes

Details

Intended for new construction of steel structures and bridge widenings. When painting is specified, cost of painting is incidental to this item.
WEATHERING item used when uncoated weathering steel is specified.
CARBON item used for Grades 36 and higher including weathering steel when painted.
LOW ALLOY item used for Grade 50 steel.
BASCULE LEAVES item used for all grades of steel in bascule leaf except steel used for decking, and steel counterweight blocks. When flanking span remains within the limits of bascule pier, pay under BASCULE PIERS. If not, include under CARBON or LOW ALLOY. Cost of F-shaped or vertical shape steel traffic railing barrier located on bascule leaf included in steel quantity under BASCULE PIERS. Leaf Centering Device Assembly included in steel quantity under BASCULE LEAVES.
BASCULE PIERS item used for all grades of steel in bascule pier except for steel for decking. Cost of F-shaped or vertical shape steel traffic railing barrier located within limits of bascule pier included in steel quantity under BASCULE PIERS.
Calculate weight of steel for estimating purposes only. Due not tabulate steel quantities in the plans. On steel box girder projects add note to include cost of all access hatches, and screen doors in cost on structural steel.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuantLS	COMP 700-050-05
	Construction	Refer to Comp Book	
Documentation	**Design**	Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **460- 2- AA** **STRUCTURAL STEEL- NEW/WIDENING** **LS/LB**

AA =
1 (Carbon)
2 (Low Alloy)
3 (Shoe Assemblies)
5 (Bascule Leaves)
6 (Bascule Piers)
15 (Miscellaneous)
18 (Carbon, Truss)
19 (Low Alloy, Truss)
20 (Weathering)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0460 2 1	STRUCT STEEL, CARBON	LS		1/1/2007		$6.16
0460 2 2	STRUCT STEEL, LOW ALLOY	LS		1/1/2007		$2.05
0460 2 5	STRUCT STEEL, BASCULE LEAVES	LS		1/1/2007		$5.38
0460 2 6	STRUCT STEEL, BASCULE PIERS	LS		1/1/2007		$6.59
0460 2 15	STRUCT STEEL, MISCELLANEOUS	LS		1/1/2007		$3.94
0460 2 20	STRUCT STEEL - NEW/WIDENING, WEATHERING	LS		1/1/2007		$3.45

460- 6- LADDERS & PLATFORMS

Unit LB; KG **Accuracy** Pound; Kilogram **PlanQuantity?** yes

Notes

Details Intended for both steel and aluminum ladders and platforms when necessary for personnel/ maintenance access. Clearly define location w/ quantity block in plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-06

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **460- 6-** **LADDERS & PLATFORMS** **LB**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0460 6	LADDERS & PLATFORMS	LB		1/1/2007		$13.66

460- 13- A STRUCTURAL STEEL REHAB- SANDWICH PLATE SYSTEM

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes **Experimental Item. Requires State Structures Design Office Approval / FHWA**

Details Must be coordinated with State Structures Design Office.
Consists of Furnishing and Installing Sandwich Plate System, including wearing surface, bridge deck, and supporting stringer.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,

materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-01
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **460- 13- A** **STRUCTURAL STEEL REHAB- SANDWICH PLATE SYSTEM** **SY**

A=
1 (Deck and Stringer)
2 (Deck)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

460- 70- A ALUMINUM BULLET RAILINGS

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Consists of furnishing and installing bullet railing on top of traffic railing barriers and parapets to protect pedestrians or bicycles. Note details on Indexes 423, 820, 821, and 822 For other aluminum railings, refer to Index Series 860 and 870, and pay items 515-1-xxa and 515-2-xxa.

Related Items	**Required**	521- 6- A when Index 820 Ped Bicycle railing is used	**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	

References **PPM Chapter**

Other

Standards Index No. 423, 820, 821, 822

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **460- 70- A** **ALUMINUM BULLET RAILINGS** **LF**

A =
1 (Single Rail)
2 (Double Rail)
3 (Triple Rail)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0460 70 1	ALUMINUM BULLET RAILINGS, SINGLE RAIL	LF		1/1/2007		$38.65
0460 70 2	ALUMINUM BULLET RAILINGS, DOUBLE RAIL	LF		1/1/2007		$46.12
0460 70 3	ALUMINUM BULLET RAILINGS, TRIPLE RAIL	LF		1/1/2007		$51.51

460- 71- A METAL TRAFFIC RAILING

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Consists of furnishing and installing metal traffic barriers, for new construction or Barrier Retrofit. Show location in plans and include in quantity block.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's 6.7

Standards Index 470 through 476

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **460- 71- A** **METAL TRAFFIC RAILING** **LF**

A =
1 (Thrie Beam Retrofit)
2 (Steel Post And Rail)*
3 (Steel Post and Rail-Retaining Wall System Maintenance)

Notes *Non-standard; custom design may be required.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0460 71 1	METAL TRAFFIC RAILING,THRIE BEAM RETROFIT	LF		1/1/2007		$230.85
0460 71 2	METAL TRAFFIC RAILING,STEEL POST AND RAIL	LF		1/1/2007		$345.65

460- 81- A RIVET / HIGH STRENGTH BOLT REPLACEMENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Rehabilitation projects only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **460- 81- A** **RIVET / HIGH STRENGTH BOLT REPLACEMENT** **EA**

A =
Blank (Standard)
1 (Special)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0460 81	RIVETS - HIGH STRENGTH BOLTS, REPLACEMENT	EA	T	1/1/2007		$75.23
0460 81 1	RIVETS - HIGH STRENGTH BOLT REPLACEMENT, SPECIAL	EA	T	1/1/2007		$150.00

460- 95- STRUCTURAL STEEL REPAIR

Unit LB; KG **Accuracy** Pound; Kilogram **PlanQuantity?** yes

Notes

Details Intended on rehabilitation projects for in-place heat straightening. Quantity based on weight of steel components to be repaired. Show locations in the plans w/ pay item note to address all work items required.

Related Items **Required** 460- 1-XAA **Recommended**

Forms **Design** SHTabQuant COMP 700-050-06

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **460- 95-** **STRUCTURAL STEEL REPAIR** **LB**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0460 95	STRUCTURAL STEEL REPAIR	LB	T	1/1/2007		$225.00

460- 98- A PIPE HANGER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details to be used ONLY for non-drainage system applications such as structure utility attachments. When deck inserts are required for utility attachments by others, do not include this item. Deck inserts are included in the cost of the superstructure concrete. Show location spacing w/ quantity block in plans.
Note: Pipe hangers for bridge drainage system paid for under 506-2.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **460- 98- A** **PIPE HANGER** **EA**

A =
1 (Carbon)
2 (Stainless)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0460 98 1	PIPE HANGER, CARBON	EA	T	1/1/2007		$409.60
0460 98 2	PIPE HANGER, STAINLESS	EA	T	1/1/2007		$150.00

460-112- ANCHOR BOLT REPLACEMENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes			
Details	For rehabilitation jobs only. Show location with quantity block in plans.		
Related Items	**Required**	**Recommended**	
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **460-112-** **ANCHOR BOLT REPLACEMENT** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0460112	ANCHOR BOLT REPLACEMENT	EA	T	1/1/2007		$5.00

461-113- AB MULTI ROTATIONAL BEARING ASSEMBLY

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended furnish and installing pot, disc or cylindrical bearing assemblies. Include location w/ quantity block in plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 6.5

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **461-113- AB** **MULTI ROTATIONAL BEARING ASSEMBLY** **EA**

A = Operation
1 (Furnish & Install)

B =
1 (1 - 250 Kips)
2 (251 - 500 Kips)
3 (501 - 750 Kips)
4 (751 - 1000 Kips)
5 (1001 - 1250 Kips)
6 (1251 - 1500 Kips)
7 (1501 - 1750 Kips)
8 (1751 - 2000 Kips)
9 (> = 2001 Kips)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0461113 12	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, 251-500 KIPS	EA		1/1/2007		$4,856.26
0461113 13	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, 501- 750KIPS	EA		1/1/2007		$4,943.35
0461113 14	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, 751-1000KIPS	EA		1/1/2007		$5,440.12
0461113 15	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, 1000-1250 KIPS	EA		1/1/2007		$10,000.00
0461113 16	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, 1251-1500 KIPS	EA		1/1/2007		$10,000.00
0461113 17	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, 1501-1750 KIPS	EA		1/1/2007		$15,077.29
0461113 18	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, 1751-2000 KIPS	EA		1/1/2007		$16,500.00
0461113 19	MULTIROTATIONAL BEARING ASSEM-FIXED, F&I, >= 2001KIPS	EA		1/1/2007		$16,333.33

461-114- AB MULTI ROTATIONAL BEARING ASSEMBLY- EXPANSION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended furnish and installing pot, disc or cylindrical bearing assemblies. Include location w/ quantity block in plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 6.5

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **461-114- AB** **MULTI ROTATIONAL BEARING ASSEMBLY- EXPANSION** **EA**

A = Operation
1 (Furnish & Install)

B =
1 (1 - 250 Kips)
2 (251 - 500 Kips)
3 (501 - 750 Kips)
4 (751 - 1000 Kips)
5 (1001 - 1250 Kips)

6 (1251 - 1500 Kips)
7 (1501 - 1750 Kips)
8 (1751 - 2000 Kips)
9 (> = 2001 Kips)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0461114 11	MULTIROTATIONAL BEARING ASSEMBLY EXPANSION,F&I, 1-250KIPS	EA		1/1/2007		$4,116.67
0461114 12	MULTIROTATIONAL BEARING ASSEM EXP, F&I, 251- 500KIPS	EA		1/1/2007		$4,856.26
0461114 13	MULTIROTATIONAL BEARING ASSEM EXP, F&I, 501- 750KIPS	EA		1/1/2007		$5,050.00
0461114 14	MULTIROTATIONAL BEARING ASSEM EXP, F&I, 751- 1000KIPS	EA		1/1/2007		$6,750.00
0461114 15	MULTIROTATIONAL BEARING ASSEM-EXPANSION,F&I, 1000-1250KIPS	EA		1/1/2007		$7,583.33
0461114 16	MULTIROTATIONAL BEARING ASSEM-EXPANSION,F&I, 1251-1500KIPS	EA		1/1/2007		$8,333.33
0461114 17	MULTIROTATIONAL BEARING ASSEM-EXPANSION,F&I,1501-1750KIP	EA		1/1/2007		$9,166.67
0461114 18	MULTIROTATIONAL BEARING ASSEM-EXPANSION,F&I,1751-2000KIP	EA		1/1/2007		$11,000.00
0461114 19	MULTIROTATIONAL BEARING ASSEM-EXPANSION,F&I, >=2001KIPS	EA		1/1/2007		$13,333.33

462- 2- AA POST TENSIONING TENDONS

Unit LB; KG **Accuracy** Pound; Kilogram **PlanQuantity?** yes

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-06

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **462- 2- AA** **POST TENSIONING TENDONS** **LB**

AA =
11 (Superstructure Strand)
12 (Superstructure Bar)
13 (Substructure Strand)
14 (Substructure Bar)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0462 2 11	POST TENSIONING TENDONS, SUPERSTRUCTURE STRAND	LB		1/1/2007		$63.01
0462 2 12	POST TENSIONING TENDONS, SUPERSTRUCTURE BAR	LB		1/1/2007		$79.06
0462 2 13	POST TENSIONING TENDONS, SUBSTRUCTURE STRAND	LB		1/1/2007		$6.56
0462 2 14	POST TENSIONING TENDONS, SUBSTRUCTURE BAR	LB		1/1/2007		$0.00

462- 3- ADDITIONAL POST-TENSIONING IN SEGMENTAL BOX SPAN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Intended for rehabilitation projects intended to strengthen span with the installation of additional post-tensioning. Show location in plans. Include a schedule of post tensioning tendons w/ quantity block in plans. Include a pay item notes as necessary to cover the work activity.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's 4.5

Standards Index 21801 thru 21803

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status **Inactive Structure**

Struct. **462- 3-** **ADDITIONAL POST-TENSIONING IN SEGMENTAL BOX SPAN** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

462- 20- A **POST TENSIONING REPAIR**

Unit EA; LF; CF **Accuracy** Each; Linear Foot; Cubic Foot **PlanQuantity?** no

Notes

Details

NOT FOR USE ON NEW CONSTRUCTION. Details to be included in Tech Specs.
Tendon Inspection: Do not include repairs under this item, except for repair of inspection holes.
Anchorage Inspection: Do not include void repairs or pour backs under this item.
Tendon Repair Set-up: to be used every time a void is detected and is to cover the cost of installing injection and outlet points, preparing to fill void, and sealing of these areas after completion. Shop drawings may be required.
Replace Anchorage Protect Sys: Includes replacement of the tendon anchorage protect system
Repair External Ducts: Not for use to repair areas damaged while repairing voids.
Tendon Replace: Remove & replace complete tendons, including anchorage components, placement & stressing new tendon, grouting, inspection, and protection system.
Grout Tendon Voids: Includes installation & material, detailed in Tech Spec
Install Grout Ports: includes drilling and installing grout ports suitable for connection to grouting equipment.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **462- 20- A** **POST TENSIONING REPAIR** **EA; LF; CF**

A=
1 (Tendon Inspection) LF
2 (Anchorage Inspection) EA
3 (Tendon Repair Set-up) EA
4 (Replace Anchorage Protection System) EA
5 (Repair External Tendon Ducts) LF
6 (Replace Tendon) LF

7 (Vacuum Grout Tendon Voids) CF
8 (Pressure Grout Tendon Voids) CF
9 (Install Grout Ports) EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0462 20 1	POST TENSIONING REPAIR(TENDON INSPECTION)	LF	T	1/1/2007		$5.34
0462 20 2	POST TENSIONING REPAIR(ANCHORAGE INSPECTION)	EA	T	1/1/2007		$155.86
0462 20 4	POST TENSIONING REPAIR(RPL ANCHORAGE PROTECT SYS)	EA	T	1/1/2007		$684.61
0462 20 7	POST TENSIONING REPAIR(VACUUM GROUT TENDON VOIDS)	CF	T	1/1/2007		$440.51
0462 20 9	POST TENSIONING REPAIR(INSTALL GROUT PORTS)	EA	T	1/1/2007		$82.42

465- 1- MOVABLE BRIDGE- MECHANICAL EQUIPMENT

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

For new bridge construction only. Intended for furnishing and installing complete mechanical system for bascule bridge. Includes all mechanical equipment and appurtenances (speed reducer and gear train, trunnion assemblies, span locks, couplings, live load shoes, flat & curved tracks, plain journal bearings, spherical bearings, supports and brackets, hydraulic systems, and all other equipment/service) required for a complete mechanical system on new bascule bridges. Clearly define scope of work in plans and specifications.
Contact State Structures Design for boiler plate Specification 465 to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **465- 1-** **MOVABLE BRIDGE- MECHANICAL EQUIPMENT** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0465 1	MOVABLE BRIDGE - MECHANICAL EQUIPMENT	LS	T	1/1/2007		$6,850,000.00

465- 2-ABB MOVABLE BRIDGE MACHINERY AND CASTINGS- REHAB

Unit LS/LS; EA; AS **Accuracy** Lump Sum; Each; Assembly **PlanQuantity?** yes

Notes

Details

Intended for rehabilitation projects for bascule bridge machinery and castings. For new structures, the complete machinery system is included under 465- 1, LS. Contact C.O. Structures Design for boiler plate 465 Specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** LUMP SUM ITEMS: Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.
EACH ITEMS: Location must be summarized on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **465- 2-ABB** **MOVABLE BRIDGE MACHINERY AND CASTINGS- REHAB** **LS/LS; EA;**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Recondition)
5 (Adjust /Modify)

6 (Remove & Dispose) Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership
8 (Field Machining)

BB= Equipment
01 (Speed Reducer And Gear Train) LS/LS
04 (Trunion Assembly) EA
05 (Span Locks) AS
07 (Couplings) EA
08 (Live Load Shoes) LS/LS
10 (Flat Rack, Curved Rack, Flat Track) EA
11 (Hopkins Frame) EA
21 (Plain Journal Bearing) EA
22 (Spherical Bearing) EA
52 (Hydraulic Cylinder) EA
53 (Hydraulic Motor) EA
54 (Hydraulic Power Pack) EA
55 (Temporary Hydraulic System) EA
60 (Other Machinery Components) LS

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0465 2101	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, F&I SPEED REDUCER & GEAR TRAIN	LS	T	1/1/2007		$63,528.18
0465 2105	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, F&I SPAN LOCKS	AS	T	1/1/2007		$156,296.29
0465 2107	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, F&I COUPLINGS	EA	T	1/1/2007		$1.00
0465 2108	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, F&I LIVE LOAD SHOES	LS	T	1/1/2007		$36,287.14
0465 2111	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, F&I HOPKINS FRAME	EA	T	1/1/2007		$243,543.40
0465 2154	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, F&I HYDRAULIC POWER PACK	EA	T	1/1/2007		$123,333.33
0465 2160	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, FURNISH & INSTALL OTHER MACHINERY COMPONENTS	LS	T	1/1/2008		$50,000.00
0465 2401	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, RECONDITION, SPEED REDUCER & GEAR TRAIN	LS	T	1/1/2007		$1.00
0465 2404	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, RECONDITION, TRUNION ASSEMBLY	EA	T	1/1/2007		$6,177.71
0465 2405	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, RECONDITION,SPAN LOCKS	AS	T	1/1/2007		$29,066.67

0465 2408	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, RECONDITION,LIVE LOAD SHOES	LS	T	1/1/2007	$11,900.00
0465 2411	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, RECONDITION, HOPKINS FRAME	EA	T	1/1/2007	$1.00
0465 2452	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, RECONDITION,HYDRAULIC CYLINDER	EA	T	1/1/2007	$1.00
0465 2453	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, RECONDITION, HYDRAULIC MOTOR	EA	T	1/1/2007	$1.00
0465 2460	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, RECONDITION, OTHER MACHINERY COMPONENTS	LS	T	1/1/2008	$50,000.00
0465 2554	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, ADJUST& MODIFY,HYDRAULIC POWER PACK	EA	T	1/1/2007	$1.00
0465 2605	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, REMOVE & DISPOSE-CONTRACTOR OWNS, SPAN LOCKS	AS	T	1/1/2007	$8,596.00
0465 2607	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, REMOVE & DISPOSE-CONTRACTOR OWNS, COUPLINGS	EA	T	1/1/2007	$1.00
0465 2608	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, REMOVE & DISPOSE-CONTRACTOR OWNS, LIVE LOAD SHOES	LS	T	1/1/2007	$8,266.67
0465 2611	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, REMOVE & DISPOSE-CONTRACTOR OWNS, HOPKINS FRAME	EA	T	1/1/2007	$10,959.00
0465 2654	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, REMOVE & DISPOSE-CONTRACTOR OWNS, HYDRAULIC POWER PACK	EA	T	1/1/2007	$1.00
0465 2752	MOVABLE BRIDGE MACHINERY & CASTING-REHABILITATION, REMOVE & SALVAGE,HYDRAULIC CYLINDER	EA	T	1/1/2007	$1.00

465- 3- AB MOVABLE BRIDGE COUNTERWEIGHT

Unit EA; TN; MT **Accuracy** Each; Ton; Metric Ton **PlanQuantity?** no

Notes

Details Applies for either rehabilitation or new bridge projects. Intended for work items related to bascule bridge counterweights (balance calculations, balance blocks, steel ballast, transition slabs, sump pumps, bumper blocks). Steel ballast intended for bulk steel counterweight (transition slabs, steel plates). Show location & quantity block in plans. When using "Adjust" item, Tech Spec must clearly define method of measurement: adjustment of each bridge, leaf, or after specific operations.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other	SDG's Chapter 8	
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **465- 3- AB** **MOVABLE BRIDGE COUNTERWEIGHT** **EA; TN**

A= Operation
1 (Furnish & Install)
5 (Adjust) EA; for A=5, B=0
9 (Clean) Valid for B=6 only

B= Item
1 (Fiberglass Pocket Cover) EA
2 (Sump Pump) EA
4 (Bumper Block) EA
6 (Pockets) EA
7 (Balance Blocks) EA
9 (Steel Ballast) TN

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0465 3 11	MOVABLE BRIDGE COUNTERWEITHT, F&I, FIBER GLASS POCKET COVER	EA	T	1/1/2007		$1,785.00
0465 3 14	MOVABLE BRIDGE COUNTERWEITHT, F&I, BUMPER BLOCK	EA	T	1/1/2007		$5,080.00
0465 3 16	MOVABLE BRIDGE COUNTERWEITHT, F&I, POCKETS	EA	T	1/1/2007		$1.00
0465 3 17	MOVABLE BRIDGE COUNTERWEITHT, F&I, BALANCE BLOCKS	EA	T	1/1/2007		$93.17
0465 3 19	MOVABLE BRIDGE COUNTERWEITHT, F&I, STEEL BALLAST	TN	T	1/1/2007		$2,031.71

0465 3 50	MOVABLE BRIDGE COUNTERWEITHT, ADJUST	EA	T	1/1/2007	$18,072.91
0465 3 96	MOVABLE BRIDGE COUNTERWEITHT, CLEAN, POCKETS	EA	T	1/1/2007	$885.40

465- 4- MOVABLE BRIDGE SPAN JACKING

Unit LS/EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Intended for rehabilitation projects to jack bascule span off trunnion supports. Used in conjunction with trunnion reconditioning or bearing replacement. Tech Spec should include jacking procedure, and require that procedures and calculations be completed by a Florida Licensed Engineer.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **465- 4-** **MOVABLE BRIDGE SPAN JACKING** **LS/EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

465- 20- MOVABLE BRIDGE- PREVENTATIVE MAINTENANCE

Unit LS/DA **Accuracy** Lump Sum (Day) **PlanQuantity?**

Notes

Details

This item covers the cost of fmaintaining a movable bridge during construction.

Contact the Movable Bridge Section of the State Structures Design Office prior to use of this item. Specifications may be available.

Related Items **Required** **Recommended**

Forms **Design**

	Construction
Documentation	**Design**
	Construction
References	**PPM Chapter**
	Other
	Standards
	Specifications
	Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **465- 20-** **MOVABLE BRIDGE- PREVENTATIVE MAINTENANCE** **LS/DA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0465 20	MOVABLE BRIDGE- PREVENTATIVE MAINTENANCE & ROUTINE REPAIR	LS	T	7/1/2007		$160.96

465- 21- MOVABLE BRIDGE OPERATOR

Unit DA **Accuracy** Day **PlanQuantity?**

Notes

Details This item covers the cost of furnishing a bridge tender during construction.

Contact the Movable Bridge Section of the State Structures Design Office prior to use of this item. Specifications may be available.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**		
	Construction		
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **465- 21-** **MOVABLE BRIDGE OPERATOR** **DA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0465 21	MOVABLE BRIDGE OPERATOR	DA	T	7/1/2007		$405.97

465- 71- A MOVABLE BRIDGE FUNCTIONAL CHECKOUT

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

Phase A to be used to test first-two leafs of a four leaf bascule, Phase B to be used for the Second-two leafs, and Phase C to be used for the complete bridge. Sometimes Phase C and Phase B are combined for simplicity. This item is required on all new bascule bridges and on all bascule bridge rehabilitation projects where the leaf operation, weight is being affected.
Where phasing is not required, only a single checkout (Phase C) is required.
Contact State Structures Design for boiler plate 465 Specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's 8.7.19

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **465- 71- A** **MOVABLE BRIDGE FUNCTIONAL CHECKOUT** **LS/LS**

A = See detail for Phasing
1 (Phase A) for 1st 2 leaves
2 (Phase B) for 2nd leaves
3 (Phase C) for Complete

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0465 71 1	MOVEABLE BRIDGE FUNCTIONAL CHECKOUT, PHASE A	LS	T	1/1/2007		$34,400.00
0465 71 3	MOVABLE BRIDGE FUNCTIONAL CHECKOUT, PHASE C	LS	T	1/1/2007		$39,576.64

470- 1- TREATED TIMBER, STRUCTURAL

Unit MB; M3 **Accuracy** 10th of a Thou Board Measure; 10th of a Cubic Meter **PlanQuantity?** yes

Notes

Details

Intended for the cost of treated structural timber. The quantity of timber to be based on the final width and thickness shown in the plans. When applicable, indicate in the plans the nominal size (2x6) and dressed dimension. Quantity is to be based on the dressed volume. For rough cut or "full sawn" sizes, the nominal size is the finished size and the basis of the quantity. Timber piles paid for under 455- 2-XXA.
The board-foot measure is the unit of volume for measuring lumber. One board-foot measure is a 12-inch long 1-inch-by-12-inch volume. MB is per thousand board-foot measure.

Example calculation:
800' - 12X6 Rough Sawn = 800x12x6/12,000= 4.8 MB
800' - 12X6 Dressed Lumber (Dressed 11 ½ " X 5 ½ ") = 800X11.5X5.5/12,000= 4.2 MB

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other Structures Detailing Manual Chapter 12.

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **470- 1-** **TREATED TIMBER, STRUCTURAL** **MB**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0470 1	TREATED TIMBER, STRUCTURAL	MB		1/1/2007		$5,435.17

471- 1- A FENDER SYSTEM, PLASTIC MARINE LUMBER

Unit MB; M3 **Accuracy** 10th of a Thou Board Measure; 10th of a Cubic Meter **PlanQuantity?** yes

Notes **Effective January 2007 letting.**

Details to be used for wales and dimensional lumber for fender systems. Plastic piling to be paid separately under Section 455 items.

one board foot= one foot square by one inch thick; convert to thousand board foot for pay item.
Refer to Design Standards and Specifications for additional information.

Related Items **Required** 455- 37- a **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 21900 thru 21930

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **471- 1- A** **FENDER SYSTEM, PLASTIC MARINE LUMBER** **MB**

A= Reinforcement
1 (Reinforced)
2 (non-reinforced)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0471 1 1	FENDER SYSTEM,PLASTIC MARINE LUMBER,REINFORCED	MB		1/1/2007		$18,713.23
0471 1 2	FENDER SYSTEM,PLASTIC MARINE LUMBER, NON-REINFORCED	MB		1/1/2007		$18,129.99

BOE

Basis of Estimates

Chapter 15

Items 500 to 599

State Specifications and Estimates Office
Estimating Systems Support Section

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504- 1- AA STEEL ROADWAY FLOOR

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** yes

Notes

Details Intended for steel grating for sidewalks and bridge decks usually on bascule leaves. Show location w/ quantity block in plans. Make deductions in quantities for openings or joints. When concrete filled decks are called for in the plans, no separate payment is made for fill concrete. See Section 504 for Specifications.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **504- 1- AA** **STEEL ROADWAY FLOOR** **SF**

A =
1 (5" Open)
2 (3" Armored)
3 (4 1/2" Open)
4 (5 1/2" Open)
5 (5 1/2" Armored)
6 (3 1/2" Armored)
7 (7 1/2" Open)
8 (6" Open)
9 (3 1/2" Open)
10 (5" Armored)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0504 1 1	ROADWAY FLOOR, STEEL, 5" OPEN	SF	T	1/1/2007		$64.99
0504 1 2	ROADWAY FLOOR, STEEL, 3" ARMORED	SF	T	1/1/2007		$89.57

504- 2- SIDEWALK FLOOR, STEEL - REHAB

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** yes

Notes

Details Intended for rehabilitation projects when steel sidewalks gratings is required without roadway grating. On new bascule bridge projects, include both sidewalk and roadway grating quantity under 504-1. Show location w/ quantity block in plans. Make deductions in quantities for openings or joints. When concrete filled decks are called for in the plans, include cost of the concrete fill under this pay item (add pay item note).

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-01
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	6, 7, 13	

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status **Inactive Structure**

Struct. **504- 2-** **SIDEWALK FLOOR, STEEL - REHAB** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0504 2	SIDEWALK FLOOR, STEEL, REHABILITATION	SF	T	1/1/2007		$40.00

504- 3- Rehab Steel Floor

	Unit	**Accuracy**		**PlanQuantity?**
Notes				
Details				
Related Items	**Required**		**Recommended**	
Forms	**Design**			
	Construction			
Documentation	**Design**			
	Construction			
References	**PPM Chapter**			
	Other			
	Standards			
	Specifications			
	Prep & Doc Manual Chapter(s)			

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **504- 3-** **Rehab Steel Floor**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

506- 2- BRIDGE DRAIN PIPE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Intended for payment for drainage pipes located on bridge structure to convey water from deck inlets to ends of bridge or down to ground at pier locations. Include piping that is cast into concrete components in the quantity. Bridge drains paid separately under 506-3. Show location w/ quantity block in plans.

Related Items **Required** 506- 3- **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **506- 2-** **BRIDGE DRAIN PIPE** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0506 2	BRIDGE DRAINAGE PIPE	LF		1/1/2007		$107.06

506- 3- BRIDGE DRAINS

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details Intended for payment for deck inlets located on bridge structure. Bridge piping paid under 506-2. Deck scuppers holes cast into bridge deck should not be paid for under this item unless they consist of a casting. Pay for deck scupper holes under superstructure concrete (add pay item note). Show location w/ quantity block in plans.

Related Items **Required** 506- 2- **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **506- 3-** **BRIDGE DRAINS** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0506 3	BRIDGE DRAINS	EA		1/1/2007		$2,063.00

506- 72- POWER CLEAN BRIDGE DOWN DRAIN

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes		
Details		Valid for Maintenance Use. Plans or Specifications must detail cleaning requirements including: method(s), permitted chemicals, etc.
Related Items	**Required**	**Recommended**
Forms	**Design**	CADD Form not specified;
	Construction	Refer to Comp Book
Documentation	**Design**	
	Construction	
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	6, 7, 13

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **506- 72-** **POWER CLEAN BRIDGE DOWN DRAIN** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

507- 70- ALUMINUM SIDEWALK FLOOR

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** yes

Notes

Details Intended for aluminum sidewalks usually on bascule leaves. Show location w/ quantities block in plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **507- 70-** **ALUMINUM SIDEWALK FLOOR** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0507 70	ALUMINUM SIDEWALK FLOOR	SF	T	1/1/2007		$88.21

508- 1- A MOVABLE BRIDGE ELECTRICAL EQUIPMENT

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details For movable bridges only. Clearly define scope of work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

NEW- FURNISH & INSTALL: Includes complete, new, electrical system for bascule

bridge. Includes all electrical equipment and appurtenances (emergency generator, submarine cable, motors, control console, brakes, programmable controller, motor control center, drive system, CCTV system, navigation lights, gates, signals, and all other equipment/service) required for a complete installation on bascule bridges.

EXISTING- ADJUST/MODIFY/REHAB: Includes all electrical system equipment, components, and/or work not paid for separately under other items. May include furnishing/wiring/installation of new or rehab electrical components.

REMOVAL: Clearly identify which items are to be stockpiled or disposed. For stockpiled items, include a location for delivery (define limits of contractor's work) and a contact name.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuantLS	COMP 700-050-05
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 1- A** **MOVABLE BRIDGE ELECTRICAL EQUIPMENT** **LS/LS**

A= Operation
1 (New- Furnish & Install)
4 (Relocate)
5 (Existing- Adjust/Modify/Rehab)
6 (Remove & Dispose) Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0508 1 1	MOVABLE BRIDGE ELECTRICAL EQUIPMENT, F&I	LS		1/1/2007		$398,241.42
0508 1 5	MOVABLE BRIDGE ELECTRICAL EQUIPMENT, EXISTING- ADJUST/ MODIFY/REHAB	LS		1/1/2007		$406,150.00
0508 1 6	MOVABLE BRIDGE ELECTRICAL EQUIPMENT, REMOVE & DISPOSE CONTRACTOR TAKES OWNERSHIP	LS		1/1/2007		$16,407.64

508- 2- A **MOVABLE BRIDGE GATE**

Unit AS **Accuracy** Assembly **PlanQuantity?** yes

Notes

Details

For use on movable bridges only. This item may be used with 508-1 for rehab bridge projects. (DO NOT use on New Bridge Construction.) Clearly define scope of work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

FURNISH & INSTALL: Furnish & Install new gates on an existing bascule bridge.

ADJUST/MODIFY/REHAB: Includes all work and materials necessary for rehab of existing gates. Include pay item 508-1 for other electrical system work.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**		
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 2- A** **MOVABLE BRIDGE GATE** **AS**

A= Operation
1 (Furnish & Install)
4 (Relocate)
5 (Adjust/Modify/Rehab)
6 (Remove & Dispose) Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0508 2 1	MOVABLE BRIDGE GATE, F&I	AS		1/1/2007		$25,000.00
0508 2 12	MOVABLE BRIDGE GATE, F&I, CLASS II, TWO LANE	AS		1/1/2007		$35,000.00
0508 2 13	MOVABLE BRIDGE GATE, F&I, CLASS III, THREE LANE	AS		1/1/2007		$50,000.00
0508 2 15	MOVABLE BRIDGE GATE, F&I, SPECIAL	AS		1/1/2007		$42,500.00

508- 3- A MOVABLE BRIDGE SIGNAL

Unit AS **Accuracy** Assembly **PlanQuantity?** yes

Notes

Details

For use on movable bridges only. This item may be used with 508-1 for rehab bridge projects. (DO NOT use on New Bridge Construction.)

Clearly define scope of work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

FURNISH & INSTALL: Furnish & Install new signals on an existing bascule bridge.

ADJUST/MODIFY/REHAB: Includes all work and materials necessary for rehab of existing signals. Include pay item 508-1 for other electrical system work.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 3- A** **MOVABLE BRIDGE SIGNAL** **AS**

A= Operation
1 (Furnish & Install)
4 (Relocate)
5 (Adjust/Modify/Rehab)
6 (Remove & Dispose) Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0508 3 1	MOVABLE BRIDGE - SIGNAL, F&I	AS		1/1/2007		$0.00

508- 4- MOVABLE BRIDGE ELECTRICAL EQUIPMENT, REHAB

Unit **Accuracy** **PlanQuantity?**

Notes USE 508-1-A, with A= REHAB

Details

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 4-** **MOVABLE BRIDGE ELECTRICAL EQUIPMENT, REHAB**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0508 4	MOVABLE BRIDGE ELECTRICAL EQUIPMENT, REHAB	LS	T	1/1/2007		$1.00

508- 72- A MOVABLE BRIDGE EMERGENCY GENERATOR

Unit AS **Accuracy** Assembly **PlanQuantity?** yes

Notes

Details Includes standby generator system (generator, transfer switch, control panel, etc.) for bascule bridge rehabilitation projects only.
For new structures, emergency generator is included under 508- 1-. Clearly define work in plans and specifications.
Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 72- A** **MOVABLE BRIDGE EMERGENCY GENERATOR** **AS**

A = 1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0508 72 1	MOVABLE BRIDGE EMERGENCY GENERATOR ,F&I	AS	T	1/1/2007		$88,329.72
0508 72 4	MOVABLE BRIDGE EMERGENCY GENERATOR , REMOVE	AS	T	1/1/2007		$6,927.18

508- 73- A SUBMARINE CABLE ASSEMBLY

Unit LS/LF; LS/M1 **Accuracy** Lump Sum (Linear Foot); Lump Sum (Meter) **PlanQuantity?** yes

Notes

Details

Intended for sub-aqueous cable. For bascule bridge rehabilitation projects only or fixed new bridge projects.
For new bascule bridge projects, submarine cable is included under 508- 1-. Clearly define work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 73- A** **SUBMARINE CABLE ASSEMBLY** **LS/LF**

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0508 73 1	SUBMARINE CABLE ASSEMBLY, FURNISH & INSTALL	LS	T	1/1/2007		$259.80
0508 73 2	SUBMARINE CABLE ASSEMBLY, FURNISH	LS	T	1/1/2007		$371.09
0508 73 3	SUBMARINE CABLE ASSEMBLY, INSTALL	LS	T	1/1/2007		$606.28
0508 73 4	SUBMARINE CABLE ASSEMBLY, REMOVE	LS	T	1/1/2007		$18.67

508- 76- A MOVABLE BRIDGE REHAB- SPAN MOTORS AND CONTROLLERS

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details Includes span drive motors and speed controllers for bascule bridge rehabilitation only. For new structures, span motors are included under 508- 1-. Clearly define work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. 508- 76- A **MOVABLE BRIDGE REHAB- SPAN MOTORS AND CONTROLLERS** **LS/LS**

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Recondition)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0508 76 1	MOVABLE BRIDGE - REHAB, SPAN MOTORS & CONTROLLERS , F&I	LS	T	1/1/2007		$194,215.74
0508 76 4	MOVABLE BRIDGE - REHAB, SPAN MOTORS & CONTROLLERS , REMOVE	LS	T	1/1/2007		$1.00

508- 77- A MOVABLE BRIDGE REHAB- PROGRAMMABLE LOGIC CONTROLLER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes programmable logic controllers (controllers, I/O racks, power supplies, programming) for bascule bridge rehabilitation only. For new structures, logic controllers are included under 508- 1-. Clearly define work in plans and specifications. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 77- A** **MOVABLE BRIDGE REHAB- PROGRAMMABLE LOGIC CONTROLLER** **EA**

A = 1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Programming)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0508 77 1	MOVABLE BRIDGE-REHAB,PROGRAMMABLE LOGIC CONTROLLER F&I	EA	T	1/1/2007		$71,690.45
0508 77 5	MOVABLE BRIDGE-REHAB,PROGRAMMABLE LOGIC CONTROLLER PROGRAMMING	EA	T	1/1/2007		$62,277.94

508- 78- A MOVABLE BRIDGE REHAB- LIMIT SWITCHES AND TRANSDUCERS

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details Includes limit switches and transducers for bascule bridge rehabilitation only. For new structures, limit switches and transducers are included under 508- 1-. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 78- A** **MOVABLE BRIDGE REHAB- LIMIT SWITCHES AND TRANSDUCERS** **LS/LS**

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Programming)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0508 78 1	MOVABLE BRIDGE-REHAB, LIMIT SWITCHES & TRANSDUCERS F&I	LS	T	1/1/2007		$35,760.97
0508 78 4	MOVABLE BRIDGE-REHAB, LIMIT SWITCHES & TRANSDUCERS REMOVE	LS	T	1/1/2007		$3,549.04

508- 79- A MOVABLE BRIDGE REHAB- CONTROL CONSOLE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes control console and associated equipment (switches, indicating lights, relays, etc.) for bascule bridge rehabilitation only. For new structures, control console is included under 508- 1-. Clearly define work in plans and specifications. Contact State Structures Design Office for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 79- A** **MOVABLE BRIDGE REHAB- CONTROL CONSOLE** **EA**

A =

1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0508 79 1	MOVABLE BRIDGE-REHAB,CONTROL CONSOLE, F&I	EA		1/1/2007		$84,413.60
0508 79 4	MOVABLE BRIDGE-REHAB,CONTROL CONSOLE, REMOVE	EA		1/1/2007		$1.00

508- 80- A MOVABLE BRIDGE REHAB- BRAKE SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes brake systems (brake shoes, brake drums, brake operators) for bascule bridge rehabilitation only. For new structures, brake system is included under 508- 1-. Clearly define work in plans and specifications.
Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. **508- 80- A** **MOVABLE BRIDGE REHAB- BRAKE SYSTEM** **EA**

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Recondition)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0508 80 1	MOVABLE BRIDGE-REHAB, BRAKE SYSTEM, F&I	EA		1/1/2007		$15,282.47
0508 80 4	MOVABLE BRIDGE-REHAB, BRAKE SYSTEM, REMOVE	EA		1/1/2007		$776.61

508- 82- A MOVABLE BRIDGE REHAB- CONTROL PANEL / MOTOR CONTROLLER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Includes motor control center and starters for bascule bridge rehabilitation only. For new structures, control panel or motor controller is included under 508- 1-. Clearly define work in plans and specifications.
Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 82- A** **MOVABLE BRIDGE REHAB- CONTROL PANEL / MOTOR CONTROLLER** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Recondition)
5 (Replace)*

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0508 82 1	MOVABLE BRIDGE-REHAB, CONTROL PANEL - MOTOR CONTROLLER, F&I	EA	T	1/1/2007		$95,184.04
0508 82 5	MOVABLE BRIDGE-REHAB, CONTROL PANEL - MOTOR CONTROLLER, REPLACE	EA	T	1/1/2007		$1.00

508- 83-ABB MOVABLE BRIDGE REHAB- INTEGRATED DRIVE SYSTEM

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details

Includes drive systems (motor(s), variable speed drive, shop testing) for bascule bridge rehabilitation only. For new structures, integrated drive system is included under 508- 1-. Contact State Structures Design for boiler plate specification to be modified as required for project specifics.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other SDG's Chapter 8

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **508- 83-ABB** **MOVABLE BRIDGE REHAB- INTEGRATED DRIVE SYSTEM** **AS**

A = Operation
1 (Furnish & Install)
2 (Replace)
3 (Recondition)
4 (Repair)

BB = Drive Type
01 (25 kW Or Less)
02 (26 - 40 kW)
03 (41 - 60 kW)
04 (61 - 80 kW)
05 (81 - 115 kW)
06 (116 - 155 kW)

07 (156 - 190 kW)
08 (191 Or Larger)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0508 83101	MOVABLE BRIDGE INTEGRATED DRIVE SYS, F&I, 25KW OR LESS	AS	T	1/1/2007		$140,350.00
0508 83107	MOVABLE BRIDGE-REHAB, INTREGRATED DRIVE SYSTEM, F&I 156 - 190 KW	AS		1/1/2007		$1.00

510- 1- A NAVIGATION LIGHTS- FIXED BRIDGE

Unit LS/LS; EA **Accuracy** Lump Sum; Each **PlanQuantity?** yes/no

Notes

Details Includes work related to the navigation lights and accessories for fixed bridges, including the fender and channel lights. For bascule bridges, navigation lights included under 508-1.
FINAL:
LUMP SUM: No calculations required unless item is to be adjusted. All calculations and documentation of adjustments, in accordance with the Specifications, are required.
EACH: Final quantity must be recorded in space provided on summary sheet in the plans. All changes must be shown on final plan sheets.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05
Construction Refer to Comp Book

Documentation **Design** LUMP SUM ITEMS: Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.
EACH ITEMS: Location must be summarized on the plans.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards Index 21220
Specifications
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **510- 1- A** **NAVIGATION LIGHTS- FIXED BRIDGE** **LS/LS; EA**

A =
Blank (Navigation Lights) LS/LS
3 (Piers) EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0510 1	NAVIGATION LIGHTS- FIXED BRIDGE	LS		1/1/2007		$52,264.27

512- 1- A MOVABLE BRIDGE- CONTROL HOUSE

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details Intended for the complete cost of control house for bascule bridges. Include cost of foundation under separate pay items (piling, shaft, etc.) Contact State Structures Design for boiler plate specification to be modified as required for project specifics. Clearly show limits in plans for payment purposes. Include complete bar lists for control house in the plans, Including cost of reinforcing steel for walls and floors.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **512- 1- A** **MOVABLE BRIDGE- CONTROL HOUSE** **LS/LS**

A =
1 (Renovation)
Blank (New)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0512 1	MOVABLE BRIDGE-CONTROL HOUSE, NEW	LS		1/1/2007		$2,300,000.00
0512 1 1	MOVABLE BRIDGE-CONTROL HOUSE, RENOVATE	LS		1/1/2007		$175,562.74

512- 71- A MOVABLE BRIDGE PLUMBING SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **512- 71- A** **MOVABLE BRIDGE PLUMBING SYSTEM** **EA**

A = Operation
1 (Furnish & Install)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0512 71 1	MOVABLE BRIDGE PLUMBING SYSTEM, FURNISH & INSTALL	EA	T	1/1/2007		$50,000.00

514- 71- A FILTER FABRIC, PLASTIC

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Intended for Subsurface Drainage or Stabilization applications, as detailed in Section 514 of Specifications.

When this item is incidental to other work, no separate payment is made for filter fabric.
Refer to specifications and/or design standards:
Ditch Pavement, Section 524: no separate payment for filter fabric

Related Items **Required** **Recommended** 514-72 for impermeable liner

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards Index No. 199

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **514- 71- A** **FILTER FABRIC, PLASTIC** **SY**

A =
1 (Subsurface)
2 (Stabilization)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0514 71 1	PLASTIC FILTER FABRIC, SUBSURFACE	SY		1/1/2007		$2.95
0514 71 2	PLASTIC FILTER FABRIC, STABILIZATION	SY		1/1/2007		$1.38

514- 72- LINER IMPERMEABLE PVC

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended** 514-71 for "filter" fabric

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **514- 72-** **LINER IMPERMEABLE PVC** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0514 72	LINER IMPERMEABLE PVC	SY	T	1/1/2007		$22.85

515- 1- A PIPE HANDRAIL- GUIDERAIL

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details to be used as detailed on Design Standards Index 870 (aluminum) or 880 (steel). Two pipe handrail is generally used in locations where drop-off is between 10" and 30". Additional applications may include "steering" pedestrians next to a sidewalk or out of a parking lot (with or without drop-off).
For use next to drop-off greater then 30", refer to Index 800 series and pay items 460-70 or 515-2.
Not valid for use on bridge.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 870 (aluminum) or 880 (steel) only

Specifications

***Selected Items may require Tech Spec and/or Plan Detail**

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **515- 1- A** **PIPE HANDRAIL- GUIDERAIL** **LF**

A =
1 (Steel) per Index 880
2 (Aluminum) per Index 870
5 (PVC)*

Notes *Plan Details and/or Tech Spec required for PVC materials. Consider weather, UV requirements, etc.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0515 1 1	PIPE HANDRAIL - GUIDERAIL, STEEL	LF		1/1/2007		$60.61
0515 1 2	PIPE HANDRAIL - GUIDERAIL, ALUMINUM	LF		1/1/2007		$34.27
0515 1 5	PIPE HANDRAIL- GUIDERAIL, PVC	LF	T	1/1/2007		$60.67

515- 2-ABB PEDESTRIAN/BICYCLE RAILING

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details to be used for pedestrian railing next to drop-offs greater than 30". Use in accordance with Index 850 and 860; English standards may be used on metric projects.

These specific rails replace the current two rail system, and are intended to be used when there is a drop-off next to a pedestrian or bicycle facility which must be protected. These rails are not intended for use on top of traffic barriers or where vehicle containment is required.
For drop-off locations less than 30", consider item 515- 1. For other railings, refer to Index series 800 and pay item 460- 70-xxa.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**	Vol 1, Section 8.8	
	Other		
	Standards	Index No. 850 or 860	
	Specifications		
		***Selected Items may require Tech Spec and/or Plan Detail**	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **515- 2-ABB** **PEDESTRIAN/BICYCLE RAILING** **LF**

A = Required Material Types
1 (Non Specified)
2 (Steel Only)
3 (Aluminum Only)
4 (Special)*

BB = Rail Type
01 (42” Picket Railing)
02 (54” Picket Railing)
03 (Special)*

Notes *"Special" will require plan details and/or Tech Spec

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0515 2101	PEDESTRIAN, BICYCLE RAILING, NON SPECIFIED,42" PICKET RAIL	LF		1/1/2007		$62.79
0515 2102	PEDESTRIAN, BICYCLE RAILING, NON SPECIFIED,54" PICKET RAIL	LF		1/1/2007		$89.05
0515 2201	PEDESTRIAN, BICYCLE RAILING, STEEL ONLY,42" PICKET RAIL	LF		1/1/2007		$84.74
0515 2202	PEDESTRIAN / BICYCLE RAILING, STEEL ONLY, 54" PICKET RAIL	LF		1/1/2007		$78.50

0515 2301	PEDESTRIAN, BICYCLE RAILING, ALUMINUM ONLY,42" PICKET RAIL	LF	1/1/2007	$57.18
0515 2302	PEDESTRIAN, BICYCLE RAILING, ALUMINUM ONLY,54" PICKET RAIL	LF	1/1/2007	$61.96
0515 2303	PEDESTRIAN, BICYCLE RAILING, ALUMINUM ONLY, SPECIAL	LF	1/1/2007	$116.00

519- 78- BOLLARDS

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details

Tech Spec should indicate that this is a plan quantity item. Details to consider include: materials, methods and/or construction requirements.
Intended for posts placed at the ends of pedestrian or special-use facilities. Space as necessary to restrict certain vehicles, while allowing others.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **519- 78-** **BOLLARDS** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0519 78	BOLLARDS	EA	T	1/1/2007		$477.92

520- 1- AA CONCRETE CURB AND GUTTER

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Includes construction of concrete curb and/or curb and gutter, and all forming, contraction joint forming, expansion joint construction, steel reinforcement, finishing and backfilling and compaction. Deduct inlet top lengths as shown in the standards from the length of curb and gutter. Length to be measure along the face of the curb. Cost of asphalt curb pad, and additional curb thickness required, to be included in the cost of curb and gutter.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-02 (with deductions) or 700-050-03 (no deductions)

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 300

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 520- 1- AA **CONCRETE CURB AND GUTTER** **LF**

AA =
7 (Type E)
8 (Special) - For Any Odd Type*
10 (Type F)

Notes *"Special" will require plan details and/or Tech Spec

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0520 1 7	CONCRETE CURB & GUTTER, TYPE E	LF		1/1/2007		$15.75
0520 1 8	CONCRETE CURB & GUTTER, SPECIAL	LF		1/1/2007		$37.01
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF		1/1/2007		$17.10

520- 2- AA CONCRETE CURB

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Per specification, asphalt curb pad will be included in unit price, when detailed in the plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-02 (with deductions) or 700-050-03 (no deductions)

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN

QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 300

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **520- 2- AA** **CONCRETE CURB** **LF**

AA =
1 (Type A)
2 (Type B)
4 (Type D)
9 (Special)*

Notes *"Special" will require plan details and/or Tech Spec

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0520 2 1	CONCRETE CURB, TYPE A	LF		1/1/2007		$27.07
0520 2 2	CONCRETE CURB, TYPE B	LF		1/1/2007		$21.39
0520 2 4	CONCRETE CURB, TYPE D	LF		1/1/2007		$20.30
0520 2 9	CONCRETE CURB, SPECIAL	LF	T	1/1/2007		$41.84

520- 3- VALLEY GUTTER, CONCRETE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-02 (with deductions) or 700-050-03 (no deductions)

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 300

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **520- 3-** **VALLEY GUTTER, CONCRETE** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0520 3	VALLEY GUTTER- CONCRETE	LF		1/1/2007		$26.38

520- 4- CONCRETE GUTTER, SPECIAL

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Calculate carefully to reflect actual scope of work.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-02 (with deductions) or 700-050-03 (no deductions)

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 300

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **520- 4-** **CONCRETE GUTTER, SPECIAL** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

520- 5- AB CONCRETE TRAFFIC SEPARATOR

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Includes construction of traffic separator in 4, 6, and 8.5' (1.2, 1.8, and 2.6 meter) widths. Includes all forming, contraction joint forming, expansion joint construction, steel reinforcement, finishing and backfilling and compaction. Include the length of the nose when calculating the linear feet (meters). Refer to Plans Preparation Manual for proper use.

For separator of variable width, consider item 520-70, paid per area.

Related Items **Required** **Recommended** 520- 70 (2520- 70)

Forms **Design** SHTabQuant COMP 700-050-02 (with deductions) or 700-050-03 (no deductions)

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 300, 302, 212, 213

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **520- 5- AB** **CONCRETE TRAFFIC SEPARATOR** **LF**

A =
1 (Type I)
2 (Type II)
4 (Type IV)
5 (Type V)

B =
1 (4' Wide)
2 (6' Wide)
6 (8.5' Wide)

Notes NOTE: A= 1 Thru 6 Valid For Widths Of 4', 6' And 8.5' Only; B = 1, 2 Or 6 Only.
Selected items blocked 6/30/2001

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0520 5 11	TRAFFIC SEPARATOR CONCRETE-TYPE I, 4' WIDE	LF		1/1/2007		$27.97
0520 5 12	TRAFFIC SEPARATOR CONCRETE-TYPE I, 6' WIDE	LF		1/1/2007		$45.48
0520 5 16	TRAFFIC SEPARATOR CONCRETE-TYPE I, 8.5' WIDE	LF		1/1/2007		$85.00
0520 5 21	TRAFFIC SEPARATOR - CONCRETE, TYPE II, 4' WIDE	LF		1/1/2007		$53.50
0520 5 22	TRAFFIC SEPARATOR - CONCRETE, TYPE II, 6' WIDE	LF		1/1/2007		$84.12
0520 5 41	TRAFFIC SEPARATOR CONCRETE-TYPE IV, 4' WIDE	LF		1/1/2007		$34.29
0520 5 42	TRAFFIC SEPARATOR CONCRETE-TYPE IV, 6' WIDE	LF		1/1/2007		$51.69

0520 5 46	TRAFFIC SEPARATOR CONCRETE- TYPE IV, 8.5' WIDE	LF	1/1/2007	$54.67
0520 5 51	TRAF SEP CONC, TYPE V, 4' WIDE	LF	1/1/2007	$42.50

520- 6- SHOULDER GUTTER, CONCRETE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Deduct inlet top lengths as shown in the standards from the length of curb and gutter. For Type S, length to be measured along the face of the curb.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-02 (with deductions) or 700-050-03 (no deductions)

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 220, 284, 300

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **520- 6-** **SHOULDER GUTTER, CONCRETE** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0520 6	SHOULDER GUTTER- CONCRETE	LF		1/1/2007		$17.72

520- 70- CONCRETE TRAFFIC SEPARATOR, SPECIAL- VARIABLE WIDTH

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Includes construction of traffic separator in variable width, as indicated in the plans. Refer to Plans Preparation Manual for proper use. Consider item 520-5 for constant width separator, paid per length

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 302

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **520- 70-** **CONCRETE TRAFFIC SEPARATOR, SPECIAL- VARIABLE WIDTH** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0520 70	CONCRETE TRAFFIC SEPARATOR, SPECIAL- VARIABLE WIDTH	SY	T	1/1/2007		$67.16

521- 1- A MEDIAN CONCRETE BARRIER WALL

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details to be used when calling for concrete barrier wall that is to be located in a median (double face or full wall barrier); see 521- 72- (2521- 72-) for shoulder wall. Consists of construction of plain or reinforced barrier wall. The contractor may request approval for precast construction in lieu of cast-in-place.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 217, 410, 413, 415

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **521- 1- A** **MEDIAN CONCRETE BARRIER WALL** **LF**

A =
Blank (Cast In Place)
1 (Precast)
2 (Trapezoidal)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0521 1	MEDIAN CONCRETE BARRIER WALL	LF		1/1/2007		$127.73
0521 1 1	MEDIAN BARRIER WALL CONC, PRECAST	LF		1/1/2007		$60.61

521- 5- A CONCRETE TRAFFIC RAILING- BRIDGE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details

Items to be used in accordance with Standard Indexes. If any modification is made to a standard barrier, the "Special" pay item should be used. Details for any non-standard barrier must be submitted to the Structures Design Office for approval, due to crash testing requirements.
Include barriers located on approach slabs in this item.
Standard Indexes:
Index 420 - 32” F-Shape
Index 425: 42” F-Shape
Index 421: 32” Median, Double Face
Index 423: 32” Vertical Face
Index 422: 42” Vertical Face
Index 424: Corral With Curb
Index 424: Corral W/O Curb
Index 480 thru Index 483: Retrofit-Vertical Face
Index 5210: F–Shaped with Sound Barrier Wall, 8’Ht.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other SDG 6.7

Standards See detail for index numbers 420, 421, 422, 423, 424, 425, 480, 481, 482, 483, 5210

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **521- 5- A** **CONCRETE TRAFFIC RAILING- BRIDGE** **LF**

AA =
1 (32” F-Shape)
2 (42” F-Shape)
3 (32” F-Shape Median, Double Face)
4 (32” Vertical Face)
5 (42” Vertical Face)
6 (Corral With Curb)
7 (Corral W/O Curb)
8 (Retrofit-Vertical Face)
9 (Special)*
20 (F–Shaped with Sound Barrier Wall 8’Ht.)

Notes *See details above for use of "Special" item

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0521 5 1	CONCRETE TRAFFIC RAILING, BRIDGE 32" F - SHAPE	LF		1/1/2007		$97.86
0521 5 2	CONCRETE TRAFFIC RAILING, BRIDGE 42" F - SHAPE	LF		1/1/2007		$141.33
0521 5 3	CONCRETE TRAFFIC RAILING, BRIDGE, 32" F - SHAPE, MEDIAN, DOUBLE FACE	LF		1/1/2007		$92.09
0521 5 4	CONCRETE TRAFFIC RAILING, BRIDGE, 32" VERTICAL FACE	LF		1/1/2007		$136.25
0521 5 5	CONCRETE TRAFFIC RAILING, BRIDGE, 42" VERTICAL FACE	LF		1/1/2007		$481.50
0521 5 7	CONCRETE TRAFRIC RAILING, BRIDGE, CORRAL WITHOUT CURB	LF		1/1/2007		$50.00
0521 5 8	CONCRETE TRAFFIC RAILING, BRIDGE,RETROFIT-VERTICAL FACE	LF		1/1/2007		$101.68
0521 5 9	CONCRETE TRAFRIC RAILING, BRIDGE, SPECIAL	LF		1/1/2007		$145.49
0521 5 20	CONCRETE TRAFRIC RAILING-BRIDGE, F SHAPED WITH SOUND BARRIER WALL 8' HEIGHT	LF		1/1/2007		$325.82

521- 6- A CONCRETE PARAPET

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Intended for pedestrian/ bicycle railings located on bridge or on retailing walls. Includes cost of concrete portion of the parapet (including cost of sidewalk as applicable). Railing mounted on the top of parapet are to be paid for separately.
Show location w/ quantity block on bridge superstructure sheets and wall sheets as required.
When Index 800, Pedestrian Bicycle Railing is utilized, Pay Item 460-70-3 also Required

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN

QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 820

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **521- 6- A** **CONCRETE PARAPET** **LF**

AA =
1 (Pedestrian/Bicycle)
2 (Special)*
3 (Retaining Wall System Mounted w/ Sidewalk)
4 (Retaining Wall System Mounted w/ sidewalk and 8' Sound Wall)

Notes *"Special" will require plan details and/or Tech Spec

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0521 6 1	CONCRETE PARAPET, PEDEST/BICYCLE	LF		1/1/2007		$76.21
0521 6 2	CONCRETE PARAPET, SPECIAL	LF		1/1/2007		$60.00
0521 6 3	CONCRETE PARAPET, RETAINING WALL MOUNTED WITH SIDEWALK	LF		1/1/2007		$152.78

521- 7- AA CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Intended for 8' retaining wall mounted sound barrier with junction slab.
Show location with quantity block on wall sheets

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards 5210

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **521- 7- AA** **CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM** **LF**

A =
1 (F Shape with Sound Barrier Wall 8' Ht.)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0521 7 1	CONCRETE TRAFFIC RAILING BARRIER-RETAINING WALL SYSTEM, F SHAPE WITH SOUND BARRIER WALL, 8' HEIGHT	LF		1/1/2007		$427.69

521- 8- AA CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM, MOUNTED WITH SLEEPER SLAB

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Item to be used in accordance with Standard Indexes. Show location with quantity block in wall plans.
Sometimes used with item 521- 5- A for traffic railing systems that extend onto bridge.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index 420 & 5300- 32" F-Shape
Index 425 & 5300-42" F-Shape)
Index 423 & 5300 -32" Vertical Face
Index 422 & 5300-42" Vertical Face
Index 424 & 5300-Corral With Curb

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **521- 8- AA** **CONCRETE TRAFFIC RAILING BARRIER- RETAINING WALL SYSTEM, MOUNTED WITH SLEEPER SLAB** **LF**

AA =
1 (32" F-Shape)
2 (42" F-Shape)
3 (32" Vertical Face)

4 (42" Vertical Face)
5 (Corral With Curb)
20 (Special)*

Notes *"Special" will require plan details and/or Tech Spec

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0521 8 1	CONCRETE TRAFFIC RAILING BARRIER, RETAINING WALL SYSTEM MOUNTED WITH SLEEPER SLAB, 32" F SHAPE	LF		1/1/2007		$222.90
0521 8 2	CONCRETE TRAFFIC RAILING BARRIER, RETAINING WALL SYSTEM MOUNTED WITH SLEEPER SLAB, 42" F SHAPE	LF		1/1/2007		$253.33
0521 8 3	CONCRETE TRAFFIC RAILING BARRIER, RETAINING WALL SYSTEM MOUNTED WITH SLEEPER SLAB, 32" VERTICAL FACE	LF		1/1/2007		$255.00
0521 8 4	CONCRETE TRAFFIC RAILING BARRIER, RETAINING WALL SYSTEM MOUNTED WITH SLEEPER SLAB, 42" VERTICAL FACE	LF		1/1/2007		$365.00
0521 8 20	CONCRETE TRAFFIC RAILING BARRIER, RETAINING WALL SYSTEM MOUNTED WITH SLEEPER SLAB, SPECIAL	LF		1/1/2007		$0.00

521- 72- AA SHOULDER CONCRETE BARRIER WALL

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Intended for rigid shoulder roadway barriers with 8'-14' shoulder mounted sound barrier walls and box culvert mounted barriers.
Use 521- 1- (2521- 1-) for median wall.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Other
Standards Index No. 410, 411, 5210, 5211, 5213, 5214, 5215
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. 521- 72- AA SHOULDER CONCRETE BARRIER WALL LF

AA =
2 (Box Culvert)
3 (Rigid - Shoulder) 32", Index 410
4 (Rigid - Retaining)
5 (Rigid - Curb & Gutter)
6 (Plain - Shoulder)
7 (Rigid - Shoulder, With 8' Sound Wall)
10 (Rigid Shoulder 42") Index 411
11 (Rigid Shoulder 54") Index 411
20 (F-Shaped, With 8' Sound Wall)
21 (F-Shaped, With 10' Sound Wall)
22 (F-Shaped, With 12' Sound Wall)
23 (F-Shaped, With 14' Sound Wall)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0521 72 2	SHOULDER CONCRETE BARRIER WALL, BOX CULVERT	LF		1/1/2007		$160.00
0521 72 3	SHOULDER CONCRETE BARRIER WALL, RIGID-SHOULDER	LF		1/1/2007		$152.70
0521 72 4	SHOULDER CONCRETE BARRIER WALL, RIGID RETAINING	LF		1/1/2007		$155.10
0521 72 5	SHOULDER CONCRETE BARRIER WALL, RIGID-CURB & GUTTER	LF		1/1/2007		$161.01
0521 72 6	SHOULDER CONCRETE BARRIER WALL, PLAIN - SHOULDER	LF		1/1/2007		$139.98
0521 72 7	SHOULDER CONCRETE BARRIER WALL, RIDIG - SHOULDER WITH 8' SOUND WALL	LF		1/1/2007		$457.15
0521 72 10	SHOULDER CONCRETE BARRIER WALL, RIGID SHOULDER 42"	LF		1/1/2007		$400.00
0521 72 11	SHOULDER CONCRETE BARRIER WALL, RIGID SHOULDER 54"	LF		1/1/2007		$400.01
0521 72 20	SHOULDER CONCRETE BARRIER WALL, F SHAPED, WITH 8' SOUND WALL	LF		1/1/2007		$449.93
0521 72 21	SHOULDER CONCRETE BARRIER WALL, F SHAPED, WITH 10' SOUND WALL	LF		1/1/2007		$650.00
0521 72 22	SHOULDER CONCRETE BARRIER WALL, F SHAPED, WITH 12' SOUND WALL	LF		1/1/2007		$650.00
0521 72 23	SHOULDER CONCRETE BARRIER WALL, F SHAPED, WITH 14' SOUND WALL	LF		1/1/2007		$593.97

521- 73- CONCRETE BARRIER WALL- REMOVAL

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This work normally paid for under Clearing and Grubbing or removal of existing structures. Read standards and specifications carefully before use.
to be used for Roadway barrier only. For bridge barrier, refer to Structures Standards.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **521- 73-** **CONCRETE BARRIER WALL- REMOVAL** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0521 73	CONCRETE BARRIER WALL, REMOVAL	LF		1/1/2007		$22.01

522- 1- CONCRETE SIDEWALK, 4" THICK

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Consists of construction of plain or reinforced sidewalk. Includes all materials, foundation preparation, joint forming (or sawing), placing, finishing and curing. Specifically excludes excavation.
Sidewalk 6" (0.15 meter) is used in traffic-bearing situations, i.e., driveways.
Detectable Warning for sidewalk ramps is incidental to the cost of new sidewalk; for retro-fit of ramps, refer to Section 527 of the specifications.
Additional details on Index 310.
For designs near significant trees, consult with Environmental Management Office.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 282, 304,310, 515

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **522- 1-** **CONCRETE SIDEWALK, 4" THICK** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0522 1	SIDEWALK CONCRETE, 4" THICK	SY		1/1/2007		$37.55

522- 2- CONCRETE SIDEWALK, 6" THICK

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Refer to pay item 522-1 for details.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References

PPM Chapter

Other

Standards Index No. 282, 304, 310

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **522- 2-** **CONCRETE SIDEWALK, 6" THICK** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0522 2	SIDEWALK CONCRETE, 6" THICK	SY		1/1/2007		$46.88

522- 73- EXPOSED AGGREGATE TOPPING- SIDEWALK

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **522- 73-** **EXPOSED AGGREGATE TOPPING- SIDEWALK** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

523- 1- A PATTERNED / TEXTURED PAVEMENT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Includes placement of a patterned (colored) and/or textured (imprinted, stamped) treatment. Work/materials (coloring, coating, etc.) for treatment included under this item. Underlying asphalt/concrete material paid for separately.

Unit of measure is Plan Quantity, without deductions for trees, manholes, etc, per specification.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **523- 1- A** **PATTERNED / TEXTURED PAVEMENT** **SY**

A= Underlying Pavement Material
1 (Asphalt)
2 (Concrete)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0523 1 1	PATTERNED / TEXTURED PAVEMENT, ASPHALT	SY		1/1/2007		$85.00
0523 1 2	PATTERNED / TEXTURED PAVEMENT, CONCRETE	SY		1/1/2007		$60.62

524- 1- A CONCRETE DITCH PAVEMENT- NON-REINFORCED

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Consists of construction of concrete pavement in the flow channel of drainage ditches. Includes excavation below the finished grade, refilling and tamping, and disposal of surplus material. Also includes all costs of providing joints and weep holes and of furnishing and placing the filter fabric.
Refer to Index 281 for additional information.

Related Items **Required** **Recommended**

Forms **Design** SBDTPS; SBDitchPvmt COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 281

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **524- 1- A** **CONCRETE DITCH PAVEMENT- NON-REINFORCED** **SY**

A =
1 (3")
2 (4")

3 (5")
4 (6")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0524 1 1	CONCRETE DITCH PAVT, NON REINFORCED, 3"	SY		1/1/2007		$54.84
0524 1 2	CONCRETE DITCH PAVEMENT, NON REINFORCED, 4"	SY		1/1/2007		$54.96
0524 1 3	CONCRETE DITCH PAVEMENT, NON REINFORCED, 5"	SY		1/1/2007		$80.00
0524 1 4	CONCRETE DITCH PAVEMENT, NON REINFORCED, 6"	SY		1/1/2007		$74.15
0524 1 19	CONCRETE DITCH PAVT, 3", REINFORCED	SY		1/1/2007		$54.75
0524 1 29	CONCRETE DITCH PAVEMENT, 4", REINFORCED	SY		1/1/2007		$69.51
0524 1 49	CONCRETE DITCH PAVEMENT, 6", REINFORCED	SY		1/1/2007		$137.06

524- 1- AB CONCRETE DITCH PAVEMENT- REINFORCED

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Consists of construction of concrete pavement in the flow channel of drainage ditches. Includes excavation below the finished grade, refilling and tamping, and disposal of surplus material. Also includes all costs of providing joints and weep holes and of furnishing and placing the filter fabric.

Related Items **Required** **Recommended**

Forms **Design** SBDTPS; SBDitchPvmt COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 281

Specifications

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **524- 1- AB** **CONCRETE DITCH PAVEMENT- REINFORCED** **SY**

A =
1 (3")
2 (4")

3 (5")
4 (6")

B =
9 (Reinforced)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

524- 2- A CONCRETE SLOPE PAVEMENT (NON-REINFORCED)

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Intended for non-reinforced slope pavement to protect bridge fill slopes, to line flow channels, and drainage ditches. Refer to 524- 1-xxa for details.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **524- 2- A** **CONCRETE SLOPE PAVEMENT (NON-REINFORCED)** **SY**

A =
1 (3")
2 (4")
3 (5")
4 (6")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0524 2 1	CONCRETE SLOPE PAVEMENT,NON REINFORCED, 3"	SY		1/1/2007		$78.75
0524 2 2	CONCRETE SLOPE PAVEMENT,NON REINFORCED, 4"	SY		1/1/2007		$67.39
0524 2 29	CONCRETE SLOPE PAVEMENT, 4", REINFORCED	SY		1/1/2007		$77.69
0524 2 49	CONCRETE SLOPE PAVEMENT, 6", REINFORCED	SY		1/1/2007		$123.58

524- 2- AB CONCRETE SLOPE PAVEMENT (REINFORCED)

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Intended for reinforced slope pavement to protect bridge fill slopes, to line flow channels, and drainage ditches. Refer to 524- 1-xxa for details.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **524- 2- AB** **CONCRETE SLOPE PAVEMENT (REINFORCED)** **SY**

A =
1 (3")
2 (4")
3 (5")
4 (6")

B =
9 (Reinforced)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

525- 1- ASPHALTIC CONCRETE CURB

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Not intended for temporary or MOT applications. Use in accordance with Index 300.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-02

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Other
Standards Index 300
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **525- 1-** **ASPHALTIC CONCRETE CURB** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0525 1	CURB ASPHALTIC CONC	LF		1/1/2007		$26.00

526- 1- A PAVERS, ARCHITECTURAL

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Used for roadway and/or sidewalk applications.
For Patterned/Textured pavement (asphalt or concrete), use 523 items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **526- 1- A** **PAVERS, ARCHITECTURAL** **SY**

A =
1 (Roadway)
2 (Sidewalk)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0526 1 1	PAVERS, ARCHITECTURAL, ROADWAY	SY		1/1/2007		$69.77
0526 1 2	PAVERS, ARCHITECTURAL, SIDEWALK	SY		1/1/2007		$52.70

527- 1- DETECTABLE WARNING ON WALKING SURFACE- RETROFIT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is to be used for applied device on existing ramps only (RETROFIT for previous projects), used in coordination with Index 304.
For new installations (ramps constructed under this project/proposal), use index 304; cost of detectable warning for new installations is included in the cost of the sidewalk.
Refer to specifications for a complete description of product.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards Index 304
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **527- 1-** **DETECTABLE WARNING ON WALKING SURFACE- RETROFIT** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0527 1	DETECTABLE WARNING ON WALKING SURFACE, RETROFIT	EA		1/1/2007		$598.06

530- 1- RIPRAP- SAND - CEMENT

Unit CY; M3 **Accuracy** 10th of a Cubic Yard; 10th of a Cubic Meter **PlanQuantity?** no

Notes

Details This item entails the use of sand-cement bags to construct endwalls, provide fill slope protection, and/or provide ditch bottom and ditch slope protection. To be used in accordance with Design Standards.
FINAL:
Record and show how quantity was arrived at on tabulation form 700-050-56. If sand-cement is proportioned by volume, the sand shall be measured loose in an approved

measure prior to mixing with cement. If proportioned by weight, approved scales shall be used for this purpose and the volume shall be calculated using a standard conversion factor for sand of 85 lb/ft³ (1360 kg/m³).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-04

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index 258 or 268

Specifications

Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **530- 1-** **RIPRAP- SAND - CEMENT** **CY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0530 1	RIPRAP, SAND-CEMENT	CY		1/1/2007		$453.78

530- 3- A RIPRAP- RUBBLE

Unit TN; MT **Accuracy** 10th of a Ton; 10th of a Metric Ton **PlanQuantity?** no

Notes

Details to be used for bank and shore, bridge abutment, ditch, and outlet structure protection. Refer to Drainage Manual for design criteria. Gradation is given in the specifications.
Design quantity is based on the following: W = Vol.s X S.G. X Ww X Vf
W = Weight of Stone
Vol.s = Volume of Stone
S.G. = Specific Gravity
=2.3 for Bank & Shore Protection
=1.9 for Ditch Lining
Ww = 62.4 lb/ft3 (1 MT/M3) Weight of Water
Vf = .90 (Void Factor)
NOTE: remember to convert weight (LB) to (TN) for unit of measure & payment.
Final measure, per specifications, will be by railroad scales, truck scales, or barge displacement.

Related Items **Required** **Recommended** 514-71

Forms **Design** SHTabQuant COMP 700-050-06

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form

(comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **530- 3- A** **RIPRAP- RUBBLE** **TN**

A =
3 (Bank & Shore)
4 (Ditch Lining)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0530 3 3	RIPRAP, RUBBLE, BANK AND SHORE	TN		1/1/2007		$97.05
0530 3 4	RIPRAP, RUBBLE, F&I, DITCH LINING	TN		1/1/2007		$115.70

530- 74- BEDDING STONE

Unit TN; MT **Accuracy** 10th of a Ton; 10th of a Metric Ton **PlanQuantity?** no

Notes

Details Quantities should be based on 115 lbs per cubic foot (1840 kg per cubic meter).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-06

Construction 700-050-56

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **530- 74-** **BEDDING STONE** **TN**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0530 74	BEDDING STONE	TN		1/1/2007		$93.83

530- 76- A GABION MAT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Standards under development; contact the State Drainage Office for assistance.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **530- 76- A** **GABION MAT** **SY**

A = Thickness
1 (6" Thick)
2 (9" Thick)
3 (18")
4 (12")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0530 76 2	GABION MAT, 9" THICK	SY	T	1/1/2007		$180.00
0530 76 4	GABION MAT, 12" THICK	SY	T	1/1/2007		$131.98

530- 77- A GABION BASKET

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description,

materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-01
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	6, 7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. 530- 77- A GABION BASKET SY

A =
1 (12" Thick)
2 (36" Thick)
3 (30" Thick)
4 (18" Thick)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

530- 78- RIPRAP- ARTICULATING BLOCK

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-01
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **530- 78-** **RIPRAP- ARTICULATING BLOCK** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0530 78	RIPRAP - ARTICULATING BLOCK	SY	T	1/1/2007		$398.70

534- 72-1AA SOUND BARRIERS- INCLUDING FOUNDATION

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** yes

Notes

Details

To be used for panel-type sound barrier (wall) construction.
Refer to standards for details. Includes the cost of the foundation (auger cast piles or spread footings when called for in the plans), test wall, etc. Area bounded by top of panel, bottom of panel, without deductions for openings; refer to specs for additional information. Special details must be included in the plans.

NOTE: Sound barriers to be placed on bridges or MSE wall sections are not covered by the new standards or this pay item. Sound barriers in these locations have separate standards and pay items. See 521-5, 521-7, and 521-72 for shoulder mounted sound barriers.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Chapter 32

Other

Standards Index No. 5200 to 5206

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **534- 72-1AA** **SOUND BARRIERS- INCLUDING FOUNDATION** **SF**

A=
01 (Permanent)
02 (Temporary)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0534 72101	SOUND BARRIER-INC FOUNDATION, PERMANENT	SF		1/1/2007		$26.32
0534 72102	SOUND BARRIER-INC FOUNDATION, TEMPORARY	SF	T	1/1/2007		$25.00

534- 73- PERIMETER WALL

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** yes

Notes **PENDING… Expected implementation January 2009 letting.**

Details To be used for perimeter wall construction, in accordance with Index 5250. Refer to standards for details.

Includes the cost of the foundation (auger cast piles or spread footings when called for in the plans), test wall, etc. Area bounded by top of panel, bottom of panel, without deductions for openings; refer to specs for additional information.

NOTE: There is currently no specific criteria specifying when perimeter walls are justified. This will be a project by project decision based on project demands and resolved by the District.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Chapter 32

Other

Standards Index No. 5250

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **534- 73-** **PERIMETER WALL** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

536- 1- AA GUARDRAIL

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details Consists of the construction of metal guardrail on posts of timber or steel as specified.

Panels are 12.5' (3.810 meters) in length. The plan length of a run of guardrail should normally be determined as a multiple of the nominal panel lengths.
When attaching guardrail to a new or widened bridge railing, the guardrail (including transition and thrie beam panels) is paid for under item 536-1- (2536-1-). The cost of connecting the guardrail to the bridge railing is included in the cost of the guardrail.
When connecting guardrail to an existing bridge railing or to vertical face rail retrofits, the guardrail (including transition and thrie beam panels) is paid for under the item 536-1- (2536-1-) and item 536-8 is included for the cost of connecting the guardrail to the existing bridge railing.
Other situations should be noted in the plans.
Pipe rail/pedestrian safety treatment is to be included in the cost of the guardrail, as indicated on standards. Document locations on summary table. Refer to PPM Vol 2, Chapter 7 for details.

Related Items **Required** 339- 1 (2339- 1) **Recommended** 536- 7 and 536- 8 (2536- 7, 2536- 8)

Forms **Design** SBGDRL; SBGuardrail COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.
Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Other
Standards Index No. 400, 402
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 1- AA** **GUARDRAIL** **LF**

A =
1 (Roadway)
2 (Bridge)
3 (Roadway, Double Face)
4 (Bridge, Double Face)
5 (Roadway, Thrie Beam)
6 (Bridge, Thrie Beam)

8 (Roadway, With Rub Rail)
9 (Roadway, Thrie Beam, Double Face)
10 (Roadway, Weathering Steel)
11 (Roadway, Modified Thrie Beam)
12 (Roadway, Modified Thrie Beam, Double Face)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0536 1 1	GUARDRAIL -ROADWAY	LF		1/1/2007		$20.79
0536 1 2	GUARDRAIL- BRIDGE	LF		1/1/2007		$43.32
0536 1 3	GUARDRAIL- ROADWAY, DOUBLE FACE	LF		1/1/2007		$36.48
0536 1 5	GUARDRAIL- ROADWAY, THRIE BEAM	LF		1/1/2007		$24.08
0536 1 6	GUARDRAIL- BRIDGE, THRIE BEAM	LF		1/1/2007		$22.34
0536 1 8	GUARDRAIL, ROADWAY, WITH RUB RAIL	LF		1/1/2007		$30.78
0536 1 9	GUARDRAIL- ROADWAY, THRIE BEAM, DOUBLE FACE	LF		1/1/2007		$43.24
0536 1 10	GUARDRAIL, ROADWAY, WEATHERING STEEL	LF		1/1/2007		$24.62
0536 1 11	GUARDRAIL, ROADWAY, MODIFIED THRIE BEAM	LF		1/1/2007		$34.02
0536 1 12	GUARDRAIL, ROADWAY, MODIFIED THRIE BEAM-DOUBLE FACE	LF		1/1/2007		$49.98

536- 2- GUARDRAIL- SHOP BENT PANELS

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details When this item is used, item 339- 1 must be used.

Related Items **Required** **Recommended**

Forms **Design** SBGDRL; SBGuardrail COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards Index No. 400

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 2-** **GUARDRAIL- SHOP BENT PANELS** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0536 2	GUARDRAIL- SHOP-BENT PANELS	LF		1/1/2007		$23.76

536- 7- GUARDRAIL POST, SPECIAL

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Used when culvert, pier footing or other concrete structure precludes normal post installation and special fabrication is required. Specifically excludes posts for double-faced median guardrail. When this item is used, item 536- 1-xxa (2536- 1-xxa) must be used.

Related Items **Required** **Recommended**

Forms **Design** SBGDRL; SBGuardrail COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 400

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 7-** **GUARDRAIL POST, SPECIAL** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0536 7	GUARDRAIL POST SPECIAL	EA		1/1/2007		$194.02

536- 8- A GUARDRAIL BRIDGE ANCHORAGE ASSEMBLY

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Used when connecting guardrail to an existing bridge. Includes furnishing and installing special end shoes, wood blocks or concrete wedges, concrete posts and necessary hardware. When this item is used, item 536- 1 (2536- 1) must be used.
Remove: Plans or specs to indicate disposal or salvage instruction.

Related Items **Required** **Recommended**

Forms **Design** SBGDRL; SBGuardrail COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 402

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 8- A** **GUARDRAIL BRIDGE ANCHORAGE ASSEMBLY** **EA**

A = Operation
Blank (Furnish & Install)
1 (Install)
2 (Furnish)
3 (Relocate)
6 (Remove)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0536 8	GUARDRAIL- BRIDGE ANCHORAGE ASSEMBLY (FURNISH & INSTALL)	EA		1/1/2007		$2,338.58
0536 8 1	GUARDRAIL, BRIDGE ANCHORAGE ASSEMBLY, INSTALL	EA		1/1/2007		$2,752.79
0536 8 6	GUARDRAIL, BRIDGE ANCHORAGE ASSEMBLY, REMOVE	EA		1/1/2007		$253.05

536- 73- GUARDRAIL REMOVAL

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details For single run, double face guardrail: measurement and payment are based on the single run length. Refer to specification for details.

Related Items **Required** **Recommended**

Forms **Design** SBGDRL; SBGuardrail COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 400

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 73-** **GUARDRAIL REMOVAL** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0536 73	GUARDRAIL REMOVAL	LF		1/1/2007		$2.40

536- 76- GUARDRAIL POSTS- SPECIAL LENGTH

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details To be used only as detailed on index 400, for Special Length guardrail posts.

Related Items **Required** **Recommended**

Forms **Design** SBGDRL; SBGuardrail COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 400

Specifications

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status

Struct. **536- 76-** **GUARDRAIL POSTS- SPECIAL LENGTH** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0536 76	GUARDRAIL POST - SPECIAL LENGTH	EA		1/1/2007		$63.11

536- 82- GUARDRAIL ANCHORAGE- CONCRETE BARRIER WALL

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Independent stand alone anchorage to be used between guardrail and a fixed structure.

Related Items **Required** **Recommended**

Forms **Design** SBGDRL; SBGuardrail COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 400, 410, 413, 415

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 82-** **GUARDRAIL ANCHORAGE- CONCRETE BARRIER WALL** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0536 82	GUARDRAIL ANCHORAGE-CONCRETE BARRIER WALL	EA		1/1/2007		$2,215.11

536- 83- A GUARDRAIL POST REPLACEMENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SBGDRL; SBGuardrail COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 400

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 83- A** **GUARDRAIL POST REPLACEMENT** **EA**

A =
1 (Regular)
2 (Special)
3 (Steel In Concrete, Regular)
4 (Steel In Asphalt, Regular)
5 (Steel In Soil, Regular)
6 (Wooden In Asphalt, Regular)
7 (Wooden In Soil, Regular)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0536 83 1	GUARDRAIL POST REPLACEMENT, REGULAR	EA		1/1/2007		$348.02

536- 85- AA GUARDRAIL END ANCHORAGE ASSEMBLY

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes furnishing and installing all necessary hardware, as shown in Standard Index 400.

Related Items **Required** 536- 1 **Recommended**

Forms **Design** SBGDRL; SBGuardrail COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 400

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **536- 85- AA** **GUARDRAIL END ANCHORAGE ASSEMBLY** **EA**

AA =
22 (Flared)
24 (Parallel)
25 (Type II)
26 (Type CRT)
27 (Double Face Terminal)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0536 85 22	GUARDRAIL END ANCHORAGE ASSEMBLY- FLARED	EA		1/1/2007		$1,927.24
0536 85 24	GUARDRAIL END ANCHORAGE ASSEMBLY- PARALLEL	EA		1/1/2007		$2,459.76
0536 85 25	GUARDRAIL END ANCHORAGE ASSEMBLY- TYPE II	EA		1/1/2007		$782.74
0536 85 26	GUARDRAIL END ANCHORAGE ASSEMBLY- TYPE CRT	EA		1/1/2007		$1,881.07
0536 85 27	GUARDRAIL END ANCHORAGE ASSEMBLY- DOUBLE FACE TERMINAL	EA		1/1/2007		$1,358.00

538- 1- GUARDRAIL- RESET

Unit LF; M1 **Accuracy** Linear Foot; 10th of a **PlanQuantity?** no

Meter

Notes

Details Consists of the removal of existing guardrail and resetting of the salvaged guardrail along with necessary new materials. Locations of the existing and proposed guardrail must be shown in the plans. Coordinate the use of this item with District Maintenance Office. Refer to Section 3 of this Handbook for recommended pay item plan note. When this item is used, Item 339- 1 (2339- 1) must be used.

Related Items **Required** **Recommended**

Forms **Design** SBGDRL; SBGuardrail COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 400

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **538- 1-** **GUARDRAIL- RESET** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0538 1	GUARDRAIL RESET	LF		1/1/2007		$17.80

539- 75-ABC GLARE SCREEN

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **539- 75-ABC** **GLARE SCREEN** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Remove) BC=00
6 (Relocate) BC=00

B = Material
1 (Modular)

C = Height
1 (18")
2 (24")
3 (30")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0539 75112	GLARE SCREEN , F&I, MODULAR, 24"	LF	T	1/1/2007		$0.00
0539 75113	GLARE SCREEN , F&I, MODULAR, 30"	LF	T	1/1/2007		$26.80

539- 80-ABC OPAQUE VISUAL BARRIER

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 461

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **539- 80-ABC** **OPAQUE VISUAL BARRIER** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Remove) BC=00

B = Material
1 (Concrete)
2 (Fiberglass)
3 (Aluminum)

C = Height
1 (2' 3" Height)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0539 80111	OPAQUE VISUAL BARRIER, F&I, CONCRETE, 2'3" HT	LF		1/1/2007		$25.87

540- HIGH TENSION CABLE BARRIER SYSTEM WITH ANCHORS

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **Future item; refer to developmental item 904-540-xx1**

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **540-** **HIGH TENSION CABLE BARRIER SYSTEM WITH ANCHORS** **LF**

pending

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

542- 70- BUMPER GUARDS, CONCRETE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 300

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **542- 70-** **BUMPER GUARDS, CONCRETE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0542 70	BUMPER GUARDS, CONCRETE	EA	T	1/1/2007		$56.20

544- 74- AA RELOCATE VEHICULAR IMPACT ATTENUATOR / CRASH CUSHION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Items to be installed in accordance with Standards and/or manufacturer's instructions.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 432, 433, 434, 435, 436, 438

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **544- 74- AA** **RELOCATE VEHICULAR IMPACT ATTENUATOR / CRASH CUSHION** **EA**

AA =
8 (Cat)
9 (Brakemaster)
10 (Dragnet)
13 (React 350)
14 (Quadgard)
17-20 Hold
23 (SCI)
24 (Quest)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0544 74 14	RELOCATE CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, QUADGUARD	EA		1/1/2007		$4,000.00
0544 74 23	RELOCATE CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, SCI	EA		1/1/2007		$4,000.00
0544 74 24	RELOCATE CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, QUEST	EA		1/1/2007		$4,000.00

544- 75- AA **CRASH CUSHION- VEHICULAR IMPACT ATTENUATOR**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Refer to Plans Preparation Manual and Design Standards prior to selecting a specific option. Items are to be installed in accordance with Standards and/or manufacturer's instructions. All items must be listed on QPL, per specifications.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **544- 75- AA** **CRASH CUSHION- VEHICULAR IMPACT ATTENUATOR EA**

AA =
8 (Cat)*
9 (Brakemaster)*
10 (Dragnet)*
13 (React 350)*
14 (Quadguard)*
16 (Tracc)*
17 (QuadGuard Elite)*
18 (QuadGuard LMC)*
19 (QuadGuard LMA)*
20 (QuadTrend)*
21 (TAU-II)*
22 (Widetracc)*
23 (SCI)*
24 (Quest)*
40 (Optional)

Notes *AA=40 (Optional) should be used, unless there is a specific reason why options are limited to a single product.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0544 75 13	CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, REACT 350	EA		1/1/2007		$25,000.00
0544 75 14	CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, QUADGUARD	EA		1/1/2007		$22,689.00
0544 75 21	IMPACT ATTENUATOR VEHICULAR, TAU-II	EA		1/1/2007		$24,500.00
0544 75 23	CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, SCI	EA		1/1/2007		$25,000.00
0544 75 24	CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, QUEST	EA		1/1/2007		$25,000.00
0544 75 40	CRASH CUSHION - VEHICULAR IMPACT ATTENUATOR, OPTIONAL	EA		1/1/2007		$21,709.07

544- 76- **ATTENUATOR MODULES- SAND FILLED**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **544- 76-** **ATTENUATOR MODULES- SAND FILLED** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

546- 71- RUMBLE STRIP SETS

Unit PS **Accuracy** Per Set **PlanQuantity?** no

Notes

Details

Raised rumble strip SETS shall be constructed at all structures with less than full width shoulders. They will also be constructed at intersection approaches only when specified in the plans. This item is to be used in accordance with Standard Index 518.

Note that thermoplastic sets typically include 4 strips; Asphalt sets include 6 strips. Refer to Index for details.

For ground-in strips, refer to item 546-72-AB.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 518

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **546- 71-** **RUMBLE STRIP SETS** **PS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0546 71	RUMBLE STRIPS	PS		1/1/2007		$382.40

546- 72- AB RUMBLE STRIPS

Unit PM; KM **Accuracy** 10th of a Mile; Kilometer **PlanQuantity?** yes

Notes

Details

Ground-in rumble strips (16" minimum width, 400 mm minimum width) shall be constructed on freeway and other limited access per Index No. 518. Other methods and types of applications shall not be used unless approved in writing by the State Roadway Design Engineer. Approval will be considered only with sufficient documented justification for variance from this standard.
For Raised Rumble Strips, refer to item 546-71-.

Measurement, per specification: The quantity of will be the plan quantity in miles, constructed and accepted. The plan quantity will be determined based on the roadway length minus bridge lengths for each shoulder on which Rumble Strips are to be constructed.

Per specifications, plan quantity will be determined based on the roadway length, minus bridge lengths for each shoulder on which Rumble Strips are to be constructed. (No deduction is made for skip section of skip array.)

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 518	
	Specifications		
	Prep & Doc Manual Chapter(s)	6, 7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **546- 72- AB** **RUMBLE STRIPS** **PM; KM**

A = Type
5 (Ground-In)

B =
1 (16" Min. Width)
0 (Non Standard)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0546 72 50	RUMBLE STRIPS, GROUND-IN, NON STANDARD	PM		1/1/2007		$1,506.14
0546 72 51	RUMBLE STRIPS, GROUND-IN, 16" MIN. WIDTH	PM		1/1/2007		$996.47

547- 70- A RIPRAP, FABRIC-FORMED CONCRETE

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Used for specialized fabric riprap; requires Technical Special Provisions. Contact State Drainage office for additional information.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **547- 70- A** **RIPRAP, FABRIC-FORMED CONCRETE** **SY**

A =
1 (8" Filter Points)
2 (10" Filter Points)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0547 70 1	RIPRAP FABRIC-FORMED CONCRETE, 8" FILTER POINTS	SY	T	1/1/2007		$67.11
0547 70 2	RIPRAP FABRIC-FORMED CONCRETE, 10" FILTER POINTS	SY	T	1/1/2007		$68.99

548- AA- RETAINING WALL SYSTEM

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** yes

Notes

Details Approved walls are listed on the Qualified Products List (QPL).
NOTE: Include item in TRNS*PORT Roadway Category.
Pay area based on area bounded by coping line, top of leveling pad, begin and end of wall.
Barriers and parapets paid for separately (Items 521-8 and 521-6.)
****

For Cast-in-Place walls, refer to design standards and use Concrete (CY) and Reinforcing Steel (LB) items.

Related Items **Required** **Recommended** 521- 6-xxa, or 521-8-xaa

Forms **Design** SHTabQuant COMP 700-050-01
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter** Chapter 30
Other
Standards Index 5300, 5301
Specifications
Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **548- AA-** **RETAINING WALL SYSTEM** **SF**

AA = Type
12 (Permanent) excluding barrier
13 (Temporary) excluding barrier
14 (Permanent- Widening) attached to existing wall

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0548 12	RETAINING WALL SYSTEM, PERMANENT, EXCLUDING BARRIER	SF		1/1/2007		$32.88
0548 13	RETAINING WALL SYSTEM,TEMPORARY, EXCLUDING BARRIER	SF		1/1/2007		$13.79
0548 14	RETAINING WALL SYSTEM, PERMANENT-WIDENING, ATTACHED TO EXISTING WALL	SF		1/1/2007		$133.00

550- 10-ABC FENCING

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Includes all fence, posts, and incidental materials. Gates to be paid under 550-60-ABC. Type 9 (Special) to be used for decorative fencing, other than A, B, or R. Tech Spec and/or plan details required to specify materials, installation, and payment.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended** 550- 60-ABC

Forms **Design** SBFN; SBFence; SBFNTA; COMP 700-050-03

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Indexes 800, 801, 802, 803, 810, 811, 812
	Specifications	
		***Selected Items may require Tech Spec and/or Plan Detail**
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **550- 10-ABC** **FENCING** **LF**

A = Type
1 (Type A)
2 (Type B)
3 (Type R)
9 (Special) Not Type A, B, or R; C= 8 or 9

B = Nominal Fabric Height
1 (0.0- 5.0’ Height) Note: Type A Standard; may be used for other types
2 (5.1- 6.0’ Height) Note: Type B Standard; may be used for other types
3 (6.1- 7.0’ Height)
4 (7.1- 8.0’ Height)
5 (8.1-10.0’ Height)

C = Details/Features
0 (Standard features) No coating, barbed wire, or other special features
1 (w/Barbed Wire Attachment), Type B Only
2 (w/Vinyl Coating), Type B Only
3 (Full Enclosure), Type R Only
4 (Partial Enclosure), Type R Only
5 (Vertical) Type R Only
8 (Reset Existing)
9 (Special Feature) Features), other than coating, barbs, or enclosure

Notes
*A= Special for non-standard types (wood fence?)
*B= Special for other than coatings or enclosure
*A or B =9 may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0550 10110	FENCING, TYPE A, 0.0-5.0', STANDARD	LF		1/1/2007		$8.39
0550 10118	FENCING, TYPE A, 0.0-5.0', TYPE A STANDARD, RESET EXISTING	LF		1/1/2007		$11.79
0550 10120	FENCING, TYPE A, 5.1-6.0, STANDARD	LF		1/1/2007		$9.00
0550 10140	FENCING, TYPE A, 7.1-8.0', STANDARD	LF		1/1/2007		$9.67

0550 10150	FENCING, TYPE A, 8.1-10.0', STANDARD	LF		1/1/2007	$11.98
0550 10210	FENCING, TYPE B, 0.0-5.0', STANDARD FEATURES	LF		1/1/2007	$29.63
0550 10212	FENCING, TYPE B, 0.5-5.0, W/ VINYL COATING	LF		1/1/2007	$13.28
0550 10218	FENCING, TYPE B, 0.0-5.0', RESET EXISTING	LF		1/1/2007	$29.63
0550 10220	FENCING, TYPE B, 5.1-6.0, STANDARD	LF		1/1/2007	$12.57
0550 10221	FENCING, TYPE B, 5.1-6.0, W/ BARB WIRE ATTMT	LF		1/1/2007	$17.92
0550 10222	FENCING, TYPE B, 5.1-6.0, W/ VINYL COATING	LF		1/1/2007	$13.27
0550 10228	FENCING, TYPE B, 5.1-6.0, RESET EXISTING	LF		1/1/2007	$22.92
0550 10230	FENCING, TYPE B, 6.1-7.0', STANDARD	LF		1/1/2007	$12.00
0550 10231	FENCING, TYPE B, 6.1-7.0, W/ BARB WIRE ATTMT	LF		1/1/2007	$20.00
0550 10238	FENCING, TYPE B, 6.1-7.0, RESET EXISTING	LF		1/1/2007	$25.00
0550 10240	FENCING, TYPE B, 7.1-8.0', STANDARD	LF		1/1/2007	$30.49
0550 10250	FENCING, TYPE B, 8.1-10.0', STANDARD FEATURES	LF		1/1/2007	$22.64
0550 10251	FENCING, TYPE B, 8.1-10.0', WITH BARBED WIRE ATTMT	LF		1/1/2007	$34.96
0550 10315	FENCING, TYPE R, 0-5.0', VERTICAL	LF		1/1/2007	$69.15
0550 10325	FENCING, TYPE R, 5.1-6.0', VERTICAL	LF		1/1/2007	$42.86
0550 10335	FENCING, TYPE R, 6.1-7.0', VERTICAL	LF		1/1/2007	$61.23
0550 10343	FENCING, TYPE R, 7.1-8.0, W/FULL ENCLOSURE	LF		1/1/2007	$116.67
0550 10344	FENCING, TYPE R, 7.1-8.0, W / PARTIAL ENCLOSURE	LF		1/1/2007	$111.85
0550 10353	FENCING, TYPE R, 8.1 - 10.0', WITH FULL ENCLOSURE	LF		1/1/2007	$361.11
0550 10354	FENCING, TYPE R, 8.1-10.0', WITH PARTIAL ENCLOSURE, TYPE R ONLY	LF		1/1/2007	$111.56
0550 10918	FENCING, SPECIAL TYPE, 0.0-5.0', RESET EXISTING	LF	T	1/1/2007	$41.88
0550 10929	FENCING, SPECIAL TYPE, 5.1-6.0', SPECIAL FEATURES	LF		1/1/2007	$29.36
0550 10938	FENCING, SPECIAL TYPE, 6.1-7.0', RESET EXISTING	LF	T	1/1/2007	$30.00
0550 10948	FENCING, SPECIAL TYPE, 7.1-8.0', RESET EXISTING	LF	T	1/1/2007	$60.00
0550 10959	FENCING, SPECIAL TYPE, 8.1-10.0', SPECIAL FEATURES	LF		1/1/2007	$12.82

550- 60-ABC	FENCE GATE		
	Unit EA	**Accuracy** Each	**PlanQuantity?** no

Notes

Details

Fence to be installed in accordance with standards, Index Nos. 800-812.
Special: Tech Spec and/or plan details required to specify materials, installation, and payment. Do not use "special" item for type A, B, or R fencing.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended** 550-10-ABC

Forms **Design** SBFN; SBFence; SBFNTA; COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Indexes 800, 801, 802, 803, 810, 811, 812

Specifications

***Selected Items may require Tech Spec and/or Plan Detail**

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **550- 60-ABC** **FENCE GATE** **EA**

A = Type
1 (Type A)
2 (Type B)
9 (Special) *Not Type A or B

B = Type
1 (Single)
2 (Double)
3 (Sliding / Cantilever)

C = Size of Opening
1 (0-6.0’ Opening)
2 (6.1-12.0’ Opening)
3 (12.1-18.0’ Opening)
4 (18.1-20.0’ Opening)
5 (20.1-24.0’ Opening)
6 (24.1-30.0’ Opening)
7 (Greater than 30’ Opening)

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0550 60111	FENCE GATE, TYPE A, SINGLE, 0-6.0' OPENING	EA		1/1/2007		$500.00
0550 60112	FENCE GATE, TYPE A, SINGLE, 6.1-12.0' OPENING	EA		1/1/2007		$800.00
0550 60122	FENCE GATE, TYPE A, DOUBLE, 6.1-12.0' OPENING	EA		1/1/2007		$948.72
0550 60124	FENCE GATE, TYPE A, DOUBLE, 18.1-20.0' OPENING	EA		1/1/2007		$1,300.00
0550 60125	FENCE GATE, TYPE A, DOUBLE, 20.1-24.0' OPENING	EA		1/1/2007		$1,000.00
0550 60127	FENCE GATE, TYPE A, DOUBLE, GREATER THAN 30' OPENNING	EA		1/1/2007		$1,955.97
0550 60134	FENCE GATE, TYPE A, SLIDING/CANTILEVER, 18.1-20.0' OPENING	EA		1/1/2007		$1,300.00
0550 60211	FENCE GATE, TYPE B, SINGLE, 0- 6.0' OPENING	EA		1/1/2007		$751.63
0550 60212	FENCE GATE, TYPE B, SINGLE, 6.1 - 12.0' OPENING	EA		1/1/2007		$1,148.64
0550 60213	FENCE GATE, TYPE B, SINGLE, 12.1-18.0' OPENING	EA		1/1/2007		$1,500.00
0550 60214	FENCE GATE, TYPE B, SINGLE, 18.1-20.0' OPENING	EA		1/1/2007		$1,200.00
0550 60222	FENCE GATE, TYPE B, DOUBLE, 6.1-12.0' OPENING	EA		1/1/2007		$2,280.00
0550 60223	FENCE GATE, TYPE B, DOUBLE, 12.1-18.0' OPENING	EA		1/1/2007		$1,430.07
0550 60224	FENCE GATE, TYPE B, DOUBLE, 18.1-20.0' OPENING	EA		1/1/2007		$1,184.58
0550 60225	FENCE GATE , TYPE B, DOUBLE, 20.1-24' OPENING	EA		1/1/2007		$1,688.72
0550 60226	FENCE GATE , TYPE B, DOUBLE, 24.1-30.0' OPENING	EA		1/1/2007		$1,200.00
0550 60227	FENCE GATE, TYPE B, DOUBLE, GREATER THAN 30' OPENNING	EA		7/1/2004		$6,300.00
0550 60232	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 6.1-12' OPENING	EA		1/1/2007		$1,185.00
0550 60233	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 12.1-18' OPENING	EA		1/1/2007		$2,566.95
0550 60234	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 18.1-20.0' OPENING	EA		1/1/2007		$4,205.91
0550 60235	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 20.1-24' OPENING	EA		1/1/2007		$3,593.33
0550 60236	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 24.1-30' OPENING	EA		1/1/2007		$3,622.24

0550 60927	GATE, SPECIAL TYPE, DOUBLE, >30' OPENING	EA		7/1/2007	$0.00
0550 60934	FENCE GATE, SPECIAL TYPE, SLIDING/CANTILEVER, 18.1-20' OPENING	EA	T	1/1/2007	$8,160.00
0550 60935	FENCE GATE, SPECIAL TYPE, SLIDING/CANTILEVER, 20.1-24' OPENING	EA	T	1/1/2007	$6,342.86

555- 1- A DIRECTIONAL BORE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Payment will include work and materials, including casing, to be installed in accordance with specified method. Review alternate installation methods to determine best method for each location/crossing.

Per Specification, Bundled products in a single bore will be paid as a single bore, based on the required drill bit head or back reamer head size. Separate payment shall not be made for individual products in a bundle.

Related Items **Required** **Recommended** 556-1-xaa, 557-1-xxa

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **555- 1- A** **DIRECTIONAL BORE** **LF**

A = Diameter Of Pipe/Conduit*
1 (Less Than 6")
2 (6" to <12")
3 (12" to <18")
4 (18" to <24")
5 (24” to <36”)
6 (36” to <48”)
7 (48” to <60”)

Notes Additional Ranges At 12" Increments
*Refer to detail information when working with bundled products

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0555 1 1	DIRECTIONAL BORE, LESS THAN 6"	LF		1/1/2007		$17.82
0555 1 2	DIRECTIONAL BORE, 6" TO < 12"	LF		1/1/2007		$28.21
0555 1 3	DIRECTIONAL BORE, 12" TO < 18"	LF		1/1/2007		$32.30
0555 1 4	DIRECTIONAL BORE, 18" TO < 24"	LF		1/1/2007		$300.00

556- 1- A JACK AND BORE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Payment will include work and materials, including casing, to be installed in accordance with specified method. Review alternate installation methods to determine best method for each location/crossing.

Related Items **Required** **Recommended** 556-1-xaa, 557-1-xxa

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **556- 1- A** **JACK AND BORE** **LF**

AA = Diameter Of Casing
1 (<6”)
2 (6” to < 12”)
3 (12” to < 18”)
4 (18” to < 24”)
5 (24” to < 36”)
6 (36” to < 48”)
7 (48” to < 60”)
8 (60” to < 72")
9 (72" to < 84")
10 (84" to < 96")
11 (96" to < 108")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0555 1 5	DIRECTIONAL BORE, 24" TO < 36"	LF		1/1/2007		$277.44
0555 1 6	DIRECTIONAL BORE, 36" TO < 48"	LF		1/1/2007		$64.97
0555 1 7	DIRECTIONAL BORE, 48" TO < 60"	LF		1/1/2007		$781.30
0556 1 1	JACK AND BORE, CASING DIAMETER <6"	LF		1/1/2007		$60.00
0556 1 2	JACK AND BORE, CASING DIAMETER 6"TO<12"	LF		1/1/2007		$165.67
0556 1 3	JACK AND BORE, CASING DIAMETER 12"TO<18"	LF		1/1/2007		$201.30
0556 1 4	JACK AND BORE, CASING DIAMETER 18"TO<24"	LF		1/1/2007		$268.07
0556 1 5	JACK AND BORE, CASING DIAMETER 24"TO<36"	LF		1/1/2007		$292.76
0556 1 6	JACK AND BORE, CASING DIAMETER, 36" TO <48"	LF		1/1/2007		$514.32
0556 1 7	JACK AND BORE, CASING DIAMETER 48"TO<60"	LF		1/1/2007		$730.24
0556 1 8	JACK AND BORE, CASING DIAMETER 60"TO<72"	LF		1/1/2007		$1,721.46
0556 1 9	JACK AND BORE, CASING DIAMETER 72"TO<84"	LF		1/1/2007		$2,366.67
0556 1 10	JACK AND BORE, CASING DIAMETER 84"TO<96"	LF		1/1/2007		$1,000.00
0556 1 11	JACK AND BORE, CASING DIAMETER 96"TO<108"	LF		1/1/2007		$3,187.50

557- 1- A VIBRATORY PLOWING

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details Effective January 03: Payment will include work and materials, including casing, to be installed in accordance with specified method. Review alternate installation methods to determine best method for each location/crossing.

Related Items **Required** **Recommended** 556-1-xaa, 557-1-xxa

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **557- 1- A** **VIBRATORY PLOWING** **LF**

A = Diameter Of Casing
1 (< 6")
2 (6" to < 12")
3 (12" to < 18")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

560- 1- PAINTING STRUCTURAL STEEL- REHAB

Unit LS/TN; LS/MT **Accuracy** Lump Sum (Ton); Lump Sum (Metric Ton) **PlanQuantity?** yes

Notes

Details Intended for rehabilitation projects. For new bridges, the cost of painting is included in the cost of the structural steel. Do not include quantities in the plans. The weight of the steel to be painted is for estimating purposes only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1, but calculations and documentation must be to the second unit of measure. Locate or define the scope of work involved on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **560- 1-** **PAINTING STRUCTURAL STEEL- REHAB** **LS/TN**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0560 1	PAINTING STRUCTURAL STEEL	LS		1/1/2007		$1,052.38

563- A ANTI-GRAFFITI COATING

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** yes

Notes **Pending specification change for July 2008: Measurement to be made by plan quantity.**

Details Coordinate the use of this item with District Maintenance Office. Consists of furnishing and applying anti-graffiti coating to the surfaces indicated in the plans. The work also includes surface preparations prior to application of the coating. All coatings are to be clear, unless otherwise specified in the plans, or approved by the Engineer. Pay Item specifies whether material is sacrificial or non-sacrificial.
Measurement is based on the projected area of the wall (height x length) or surface, with no additional allowance for surface texture.
****
For projects let before 7/2008, measurement/payment will be based on measured area, as indicated above.
For projects let 7/2008 and later, measurement will be based on plan quantity, as indicated above.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-01
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	6, 7, 13	

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **563- A** **ANTI-GRAFFITI COATING** **SF**

A =
3 (Sacrificial)
4 (Non – Sacrificial)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0563 3	ANTI-GRAFFITI COATING, SACRIFICIAL	SF		1/1/2007		$0.40
0563 4	ANTI-GRAFFITI COATING, NON-SACRIFICIAL	SF		1/1/2004		$0.94

570- 1- A PERFORMANCE TURF

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** Yes

Notes **Effective January 2007 letting. Replaces several 570 items.**

Details Consists of establishing a stand of grass on slopes, shoulders, or other areas by seeding (includes seeding, seeding & mulching, hydroseeding, bonded fiber matrix, or any combination), or sodding, in accordance with Section 570.
Coordinate the use of this item with Sections 104 and 580.

This item includes the mowing of all areas, including undisturbed areas, within the project limits, as noted in the plans. DO NOT use item 104-4 when this item is used. Payment for all mowing is incidental to the turf payment.

Per Section 570 specification, the Statewide Disputes Review Board specifications must be included on projects with this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-01
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **570- 1- A** **PERFORMANCE TURF** **SY**

A= Type
1 *leave secondary description blank- Contractor's Option
2 (Sod)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0570 1 1	PERFORMANCE TURF	SY		1/1/2007		$1.34
0570 1 2	PERFORMANCE TURF, SOD	SY		1/1/2007		$2.55

571- 1- AB PLASTIC EROSION MAT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes

Details Geosynthetic rolled erosion control product that retains soil, moisture, and seed; promotes vegetative growth while preventing erosion in ditches, channels, and spillways. to be used where conditions prevent vegetation that lasts past a single growing season.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-01
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	

References **PPM Chapter**

Other

Standards Index No. 199

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **571- 1- AB** **PLASTIC EROSION MAT** **SY**

A =Application
1 (TRM) "Turf Reinforcement Mat"

B =Type
1 (Type 1)
2 (Type 2)
3 (Type 3)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0571 1 11	PLASTIC EROSION MAT, TURF REINFORCED MAT, TYPE 1	SY		1/1/2007		$13.72
0571 1 12	PLASTIC EROSION MAT, TRM, TYPE 2	SY		1/1/2007		$3.23
0571 1 13	PLASTIC EROSION MAT, TURF REINFORCED MAT, TYPE 3	SY		1/1/2007		$7.33

580- 1- A LANDSCAPE COMPLETE

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

This item is for the complete installation of plants, in accordance with Specification Section 580, including all incidental work. Mowing included as part of the landscape work will be identified in the contract documents. If mowing is required outside of the landscape areas, use pay item 104-4, unless 570-1-A is included.

Small plants are defined as:
all ground covers, shrubs to less than 7 gallon, trees to less than 7 gallon, palms clustering type less than 6 foot overall height, cycads to less than 7 gallon
Large plants are defined as:
shrubs 7 gallon or greater, trees 7 gallon or greater, all palms single trunk, palms clustering type 6 foot overall height and greater, cycads 7 gallon or greater, all Sabal palms (aka Sabal palmetto, cabbage palm, state tree)
Refer to the latest edition of the Florida Grades and Standards for Nursery Plants for classification. All plants must be detailed in the plans in accordance with Volume 2, Chapter 26 of the PPM.
The computation book will use form 70-050-05 Lump Sum Quantities. On the form, refer to the plans tabulation sheet for calculations; do not repeat tabulation sheet information on the form.
All 580 and 590 items must be loaded in TRNS*PORT Category 0600. If there are only a few items, they may be shown in roadway plans, but tabulated with "Summary of Landscape Pay Items" in Category 0600.

Related Items **Required** **Recommended**

Forms **Design** SBTBLD COMP 700-050-05
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0600 Landscaping

Status

Struct. **580- 1- A** **LANDSCAPE COMPLETE** **LS/LS**

A= Plant Size
1 (Small Plants) Includes incidental landscape work
2 (Large Plants)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0580 1 1	LANDSCAPE COMPLETE- SMALL PLANTS	LS		1/1/2007		$0.00
0580 1 2	LANDSCAPE COMPLETE- LARGE PLANTS	LS		1/1/2007		$0.00

590- 70- IRRIGATION SYSTEM

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details All 580 and 590 items must be loaded in TRNS*PORT Category 0600. If there are only a few items, they may be shown in roadway plans, but tabulated with "Summary of Landscape Pay Items" in Category 0600.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SBTBLD COMP 700-050-05
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0600 Landscaping

Status

Struct. **590- 70-** **IRRIGATION SYSTEM** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0590 70	IRRIGATION SYSTEM	LS	T	1/1/2007		$0.00

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BOE

Basis of Estimates

Chapter 16

Items 600 to 699

State Specifications and Estimates Office
Estimating Systems Support Section

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604- 1- AB SIGNALS- DATA COLLECTION

Unit LO; EA **Accuracy** Per Location; Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **604- 1- AB** **SIGNALS- DATA COLLECTION** **LO; EA**

A = Type Of Location
1 (Intersection)
2 (Mid-Block)

B = Type Of Count
1 (Turning Movement)
2 (Approach)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0604 1 11	DATA COLLECTION, INTERSECTION, TURNING MOVEMENT	LO	T	1/1/2007		$1,311.08
0604 1 12	DATA COLLECTION, INTERSECTION, APPROACH	LO	T	1/1/2007		$1,716.25

604- 2-AAB ANALYSIS & DOCUMENTATION- INTERSECTION

Unit PA; EA **Accuracy** Per Analysis; Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,

materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **604- 2-AAB** **ANALYSIS & DOCUMENTATION- INTERSECTION** **PA; EA**

AA = (Number Of Intersections)

B = (Number Of Timing Patterns)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0604 2 23	ANALYSIS & DOC, 2 INTERSECTIONS, 3 TIMING PATERNS	PA	T	1/1/2007		$1,438.58
0604 2 73	ANALYSIS & DOC, 7 INTERSECTIONS, 3 TIMING PATERNS	PA	T	1/1/2007		$0.00
0604 2 83	ANALYSIS & DOC, 8 INTERSECTIONS, 3 TIMING PATERNS	PA	T	1/1/2007		$900.00

604- 3- A TIMING IMPLEMENTATION

Unit PI **Accuracy** Per Intersection **PlanQuantity?** no

Notes			
Details	This pay item is for traffic signals and traffic control devices only.		
Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **604- 3- A** **TIMING IMPLEMENTATION** **PI**

A = Controller Type
1 (Controller)
2 (Controller And Coordination Unit)
3 (Master Clock Unit)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0604 3 1	TIMING IMPLEMENTATION, CONTROLLER	PI	T	1/1/2007		$539.29
0604 3 2	TIMING IMPLEMENTATION, CONTROLLER & COORDINATION UNIT	PI		1/1/2007		$1,139.44
0604 3 3	TIMING IMPLEMENTATION (MASTER CLOCK UNIT)	PI	T	1/1/2007		$550.00

604- 4- INTERSECTION ANALYSIS & DOCUMENTATION

Unit PI **Accuracy** Per Intersection **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **604- 4-** **INTERSECTION ANALYSIS & DOCUMENTATION** **PI**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

604- 5- A ARTERIAL ANALYSIS & DOCUMENTATION

Unit PA; EA **Accuracy** Per Analysis; Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **604- 5- A** **ARTERIAL ANALYSIS & DOCUMENTATION** **PA; EA**

A = Number Of Timing Patterns Per Section
1 (1 Timing Pattern)
2 (2 Timing Patterns)
3 (3 Timing Patterns)
5 (5 Timing Patterns)
6 (6 Timing Patterns)
8 (8 Timing Patterns)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0604 5 3	ARTERIAL ANALYSIS & DOCUMENTATION, 3 TIME PATERNS	PA	T	1/1/2007		$1,894.16

630- 1- AB SIGNALS- CONDUIT

Unit LF; M1 **Accuracy** Linear Foot; 10th of a **PlanQuantity?** no

Meter

Notes

Details This pay item is for traffic signals and traffic control devices only. Use 'Underground' in locations where the placement of the conduit will not necessitate saw-cutting of pavement. Most conduit placed on new construction projects will be placed underground prior to the placement of pavement, and should be paid for as 'Underground.' 'Underpavement' should be used when it is necessary to saw-cut and backfill the pavement in order to place the conduit, i.e. EXISTING PAVEMENT.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 17721	
	Specifications		
	Prep & Doc Manual Chapter(s)	6, 7, 13	

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **630- 1- AB** **SIGNALS- CONDUIT** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Conduit Installation Type
1 (Aboveground)
2 (Underground)
3 (Underpavement Sawcut) Note: Only when sawcutting is necessary for location under EXISTING PAVEMENT
4 (Underground - Jacked)
5 (Bridge Mount)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0630 1 11	CONDUIT - SIGNALS, FURNISH & INSTALL, ABOVEGROUND	LF		1/1/2007		$20.78
0630 1 12	CONDUIT - SIGNALS, FURNISH & INSTALL, UNDERGROUND	LF		1/1/2007		$5.48
0630 1 13	CONDUIT - SIGNALS, FURNISH & INSTALL, UNDER EXISTING PAVEMENT	LF		1/1/2007		$20.36
0630 1 14	CONDUIT, SIGNALS, F & I, UNDERGROUND -JACKED	LF		1/1/2007		$17.22

0630 1 15	CONDUIT, SIGNALS, F & I, BRIDGE MOUNT	LF	1/1/2007	$38.88
0630 1 22	CONDUIT - SIGNALS, FURNISH, UNDERGROUND	LF	1/1/2007	$4.25

632- 6- A SIGNALS- CABLE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
Use for runs to flashing beacon, signs, etc. beyond the normal limits of the intersection.
Includes cable, support wire, cable ties, cable clamps, lashing wire, terminal connectors and cable grounding. Use item 632- 7- (2632- 7-) for cable within the intersection.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards Index No. 17727
Specifications
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **632- 6- A** **SIGNALS- CABLE** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Adjust)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0630 1 24	CONDUIT - SIGNALS, FURNISH & INSTALL, UNDERGROUND-JACKED	LF		1/1/2007		$4.00
0632 6 1	CABLE - SIGNAL, FURNISH & INSTALL	LF		1/1/2007		$4.19

632- 7- A SIGNALS- CABLE

Unit PI **Accuracy** Per Intersection **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
Includes cable, support wire, cable ties, cable clamps, lashing wire, terminal connectors

and cable grounding, within the normal limits of the intersection. Consider 632- 6- (2632-6-) for runs outside the limits of the intersection.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17727

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **632- 7- A** **SIGNALS- CABLE** **PI**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Adjust)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0632 6 3	CABLE - SIGNAL, INSTALL	LF		1/1/2007		$5.00
0632 7 1	CABLE, SIGNAL, FURNISH & INSTALL	PI		1/1/2007		$4,217.39

632- 8-ABC SIGNALS- INTERCONNECT CABLE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17733

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **632- 8-ABC** **SIGNALS- INTERCONNECT CABLE** **LF**

A = Number Of Pairs
1 (to Be Determined By Contractor)
2 (1- 25)
3 (26- 50)
4 (51-100)
5 (101-150)

B = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

C = Type Of Interconnect Cable Installation
1 (Aerial)
2 (Underground)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0632 7 4	CABLE SIGNAL, ADJUST	PI		1/1/2007		$895.94
0632 8112	CABLE, INTERCONNECT, PAIRS - DETERMINED BY CONTRACTOR, F&I, UNDER GROUND	LF		1/1/2007		$2.28
0632 8131	CABLE, INTERCONNECT, PAIRS - DETERMINED BY CONTRACTOR, INSTALL, AERIAL	LF		1/1/2007		$6.20
0632 8211	CABLE, INTERCONNECT, 1- 25, F&I, AERIAL	LF		1/1/2007		$4.00
0632 8212	CABLE, INTERCONNECT, 1-25 PAIRS, F&I, UNDERGROUND	LF		1/1/2007		$3.14
0632 8231	CABLE, INTERCONNECT, 1-25 PAIRS, INSTALL, AERIAL	LF		1/1/2007		$4.12
0632 8232	CABLE, INTERCONNECT, 1-25 PAIRS, INSTALL, UNDERGROUND	LF		1/1/2007		$4.12
0632 8311	CABLE, INTERCONNECT, 26-50 PAIRS, F&I, AERIAL	LF		1/1/2007		$5.00

633- 1-ABC SIGNALS- FIBER OPTIC CABLE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **New items for Signals use, pending spec approval.**

Details For use in fiber optic networks that support ITS devices and their connection to communication hubs, transportation management centers, and related facilities.
Use "overhead" for installations involving bridges and other aboveground structures. Use "underground" for cable placed in buried conduit along the roadside.
****
REMOVE (A=6): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. Contractor takes ownership (remove & dispose), unless

otherwise indicated in the plans or specs.
REMOVE & STOCKPILE (A=7): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. FDOT retains ownership of cable. Detail in plans location for stockpile, i.e. Maintenance yard.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**	Vol 1, Chapter 7	
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 1-ABC** **SIGNALS- FIBER OPTIC CABLE** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove) BC=00
7 (Remove and Stockpile) BC=00

B= Location
1 (Overhead)
2 (Underground)

C= Number of Fibers in Cable
1 (2 to 12)
2 (13 to 48)
3 (49 to 96)
4 (97 to 144)

Notes *Remove item may require plan details and/or tech spec

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0632 8312	CABLE, INTERCONNECT, 26-50 PAIRS, F&I, UNDERGROUND	LF		1/1/2007		$3.90
0633 1121	SIGNALS FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	LF	T	1/1/2009		$3.10

633- 2- AB **SIGNALS- FIBER OPTIC CONNECTION**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **New items for Signals use, pending spec approval.**

Details For use in fiber optic networks where segments of fiber optic cable must be spliced

together, or when cables must be terminated at the end of a segment. Note that each connection involves the fusing of individual optical fibers in a cable. Payment "each" is for each FIBER to be connected.
Type of connection must be noted in the plans.

Related Items **Required** **Recommended** 783-3

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 2- AB** **SIGNALS- FIBER OPTIC CONNECTION** **EA**

A= Operation
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B= Type
1 (Splice)
2 (Termination)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0633 1122	SIGNALS FIBER OPTIC CABLE, F&I, UNDERGROUND,13-48 FIBERS	LF	T	1/1/2009		$3.10
0633 2 31	SIGNALS- FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	T	1/1/2009		$1.00

633- 3- AB SIGNALS- FIBER OPTIC CONNECTION HARDWARE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **New items for Signals use, pending spec approval.**

Details For use in fiber optic networks, where segments of cable must be spliced together. This item includes hardware and incidental materials for splices; payment for splicing individual fibers is made under 783-2.

For B=8 (Patch Cord), tech spec needed to describe the patch cord requirements. FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Ensure that the plans/specs clearly define if separate payment will be made for patch cords. Otherwise, payment will be considered as incidental to hardware being installed. When multiple cords/cables are needed, use a tabulation sheet in the plans to clearly Identify the number of pairs and length of each cord/cable.

Related Items	**Required**		**Recommended**	783-2
Forms	**Design**	SHTabQuant	COMP 700-050-03	
	Construction	Refer to Comp Book		
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.		
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).		
References	**PPM Chapter**			
	Other			
	Standards			
	Specifications			
	Prep & Doc Manual Chapter(s)			

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 3- AB** **SIGNALS- FIBER OPTIC CONNECTION HARDWARE** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B=Component
1 (Splice Enclosure)
2 (Splice Tray)
3 (Preterminated Connector Assembly)
4 (Buffer Tube Fan Out Kit)
5 (Patch Panel, Preterminated)
6 (Patch Panel, Field Terminated)
7 (Connector Panel)
8 (Patch Cord)* Tech Spec needed; see BOE detail

Notes *B=8: Tech Spec needed. Coordinate the use of this item with ITS Office.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0633 3 11	SIGNALS- FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	T	1/1/2009		$1.00
0633 3 15	SIGNALS- FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA	T	1/1/2009		$1.00

633- 4-1AB SIGNALS CONDUIT

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **New items for Signals use, pending spec approval.**

Details For fiber optic cable and Signals devices only.
Underground: to be used when conduit is installed prior to placement of pavement, or where it does not interfere with existing pavement.
Underpavement Sawcut: to be used only when sawcutting is necessary for location under

EXISTING PAVEMENT.

Note: Specification change effective 7-1-08 letting has separate payment for Electronic Locate Transmitter & Receiver. Refer to specification for payment details.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 4-1AB** **SIGNALS CONDUIT** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish) B=0
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) B=0

B= Location
1 (Aboveground)
2 (Underground)
3 (Underpavement Sawcut) Note: to be used only when sawcutting is necessary
9 (Special)*

Notes *Special to be used only with approval of the ITS Office
Plan Details and/or Tech Specs needed for Install, Relocate, Adjust/Modify, and Remove items.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633- 5- A SIGNALS- PULL BOX FOR FIBER OPTIC

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **New items for Signals use, pending spec approval.**

Details For use in fiber optic networks as an access point for moving cable into position during installation. Refer to specificaion for size, materials, and other details for box.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form	

(comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 5- A** **SIGNALS- PULL BOX FOR FIBER OPTIC** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633- 6- A SIGNALS SPLICE BOX FOR FIBER OPTIC

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **New items for Signals use, pending spec approval.**

Details For use in fiber optic networks as a housing for the connection or termination of cable segments. Refer to specificaion for size, materials, and other details for box.

REMOVE AND DISPOSE (A=6): Detail size and location in the plans. Contractor assumes ownership after removal- for disposal by the contractor.
REMOVE AND STOCKPILE (A=7): Detail size and location in the plans. FDOT retains ownership of the item. Detail location for stockpile, i.e. Maintenance yard or project Right of way.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 6- A** **SIGNALS SPLICE BOX FOR FIBER OPTIC** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove & Dispose)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633- 7- A SIGNALS PULL AND JUNCTION BOX

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **New items for Signals use, pending spec approval.**

Details For use on Signals projects. To be used for non-fiber optic wiring needs (power, communication, etc for Signals systems). Full details/specs are needed for this item. Designer may refer to other specification sections, as needed to detail required box.

NOTE: THIS ITEM IS NOT covered by current 783 specification.

For Pull/Junction or Splice Box for Fiber Optics, refer to items 783-5 and 783-6, as detailed in the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.
****
REMOVE AND STOCKPILE (A=7): Detail size and location in the plans. FDOT retains ownership of the item. Detail location for stockpile, i.e. Maintenance yard or project Right of way.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**		
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 7- A** **SIGNALS PULL AND JUNCTION BOX** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)

3 (Install)
4 (Relocate)
5 (Adjust /Modify)
7 (Remove and Stockpile)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633- 8- A	**SIGNALS MULTI-CONDUCTOR COMMUNICATION CABLE**				
	Unit	LF; M1	**Accuracy**	Linear Foot; 10th of a Meter	**PlanQuantity?** no

Notes **New items for Signals use, pending spec approval.**

Details For use on Signals projects. Tech Spec and/or plan detail needed to specify material requirements and/or number of conductors. Primarily for communications, may carry incidental low voltage device power. When multiple cables are needed, use a tabulation sheet in the plans to clearly Identify the number of pairs and length of each cable. Record the total length for payment under this pay item.

Note: FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Refer to 783-3 for patch cords.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**		
	Construction		
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 8- A** **SIGNALS MULTI-CONDUCTOR COMMUNICATION CABLE** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633- 9- AB	SIGNALS LOCATE SYSTEM ELECTRONIC EQUIPMENT				
	Unit	EA	**Accuracy**	Each	**PlanQuantity?** no
Notes	**New items for Signals use, pending spec approval.**				
Details	For use on Signals projects. This pay items is intended for the electronic equipment used to detect buried conduit and other underground duct, cable, and infrastructure. The electronics used for this activity typically includes a portable transmitter, a hand-held receiver, and electronic markers that cane be used together to determine the location of the underground utilities and other objects. Special configuration and/or installation details should be detailed in the plans on a project-by project basis. Electronic Box Marker: Specifications call for one electronic box marker in each pull box and splice box buried below finish grade. Additional markers may be used for existing Signals boxes within project limits. NOTE: This item effective with the July 2008 letting; for projects let prior to July 2008, transmitter and receiver are included in the Signals conduit price, per specifications.				
Related Items	**Required**		**Recommended**		
Forms	**Design**	SHTabQuant	COMP 700-050-03		
	Construction				
Documentation	**Design**				
	Construction				
References	**PPM Chapter**				
	Other				
	Standards				
	Specifications				
	Prep & Doc Manual Chapter(s)				

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633- 9- AB** **SIGNALS LOCATE SYSTEM ELECTRONIC EQUIPMENT EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B = Equipment Type
1 (Transmitter)
2 (Receiver)
3 (Electronic Box Marker) Note: Do not use this item for Electronic Route Markers

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

633-ABC- D	SIGNALS- FIBER OPTIC CABLE				
	Unit	LF; M1	**Accuracy**	Linear Foot; 10th of a Meter	**PlanQuantity?** no

Notes **Valid through ????, pending implementation of new Section 633 specification.**

Details This pay item is for traffic signals and traffic control devices only.
NOT TO BE USED FOR ITS Projects. Refer to 780 items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **633-ABC- D** **SIGNALS- FIBER OPTIC CABLE** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)

B = Type Of Interconnect Cable Installation
1 (Aerial)
2 (Underground)
3 (Drop)

C = Type Of Fiber
1 (Single Mode)
2 (Multi Mode)
3 (Composite)

D = Number Of Fibers In Cable
1 (1 - 25)
2 (26 - 50)
3 (51 - 100)
4 (101 - 150)
5 (151 - 200)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0633111 1	CABLE FIBER OPTIC, F&I, 1- 25PR, AERIAL, SINGLE	LF	T	1/1/2007		$3.10
0633111 3	CABLE FIBER OPTIC, F&I, 51-100PR, AERIAL, SINGLE MODE	LF	T	1/1/2007		$3.67
0633112 1	CABLE FIBER OPTIC, F&I, 1- 25PR, AERIAL, MULTI MODE	LF	T	8/1/2008	12/31/2008	$3.00

0633113 2	CABLE FIBER OPTIC, F&I, 26- 50 PR, AERIAL, COMPOSITE	LF	T	1/1/2007	$4.17
0633121 1	CABLE - FIBER OPTIC, F&I, UNDERGROUND, SGL MODE, 1- 25 PR	LF	T	1/1/2007	$3.38
0633121 2	CABLE - FIBER OPTIC, F&I, UNDERGROUND, SGL MODE, 26 - 50PR	LF	T	1/1/2007	$6.21
0633121 3	CABLE - FIBER OPTIC, F&I, UNDERGROUND, SGL MODE, 51-100 PR	LF	T	1/1/2007	$3.78
0633121 4	CABLE - FIBER OPTIC, F&I, UNDERGROUND, SGL MODE, 101-150 PR	LF	T	1/1/2007	$4.99
0633122 1	CABLE - FIBER OPTIC, F&I, UNDERGROUND, MULTI MODE,1-25 PR	LF	T	1/1/2007	$1.43
0633123 1	CABLE -FIBER OPTIC, F&I, UNDERGROUND,COMPOSITE, 1 - 25 PR	LF	T	1/1/2007	$4.49
0633123 2	CABLE -FIBER OPTIC, F&I, UNDERGROUND,COMPOSITE, 26- 50 PR	LF	T	1/1/2007	$4.82
0633123 3	CABLE -FIBER OPTIC, F&I, UNDERGROUND,COMPOSITE, 51-100 PAIR	LF	T	1/1/2007	$17.65
0633131 1	CABLE FIBER OPTIC, F&I, 1- 25 PR, DROP, SINGLE MODE	LF	T	1/1/2007	$7.40
0633131 3	CABLE -FIBER OPTIC, F&I, DROP, SINGLE MODE, 51 - 100 PR	LF	T	1/1/2007	$22.12
0633132 1	CABLE -FIBER OPTIC, F&I, DROP, MULTI MODE, 1 - 25 PR	LF	T	1/1/2007	$22.12
0633133 1	CABLE FIBER OPTIC, F&I, DROP, COMPOSITE,1-25	LF	T	1/1/2007	$7.25
0633133 2	CABLE FIBER OPTIC, F&I, DROP, COMPOSITE, 26-50	LF	T	1/1/2007	$0.00
0633223 1	CABLE - FIBER OPTIC, FURNISH, UNDERGROUND,COMPOSITE, 1 - 25 PR	LF	T	1/1/2007	$3.00
0633313 2	CABLE -FIBER OPTIC, INSTALL, AERIAL, COMPOSITE, 26 - 50 PR	LF	T	1/1/2007	$6.18
0633421 1	CABLE - FIBER OPTIC, RELOCA, UNDERGROUND, SGL MODE, 1-25 PR	LF	T	1/1/2007	$32.04
0633422 1	CABLE - FIBER OPTIC, RELOCA, UNDERGROUND, MULTI MODE, 1-25 PR	LF	T	1/1/2007	$10.30

634- 4-ABC SIGNALS- SPAN WIRE ASSEMBLY

Unit PI **Accuracy** Per Intersection **PlanQuantity?** no

Notes **Effective Date for single wire pending.**

Details This pay item is for traffic signals and traffic control devices only.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 17356, 17727	
	Specifications		
	Prep & Doc Manual Chapter(s)	6, 7, 13	

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. 634- 4-ABC SIGNALS- SPAN WIRE ASSEMBLY PI

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Adjust)

B = Type Assembly
0 (One Wire) **5/22/08: effective date pending**
1 (Two Wire)
2 (Three Wire)

C = Type Span
1 (Perpendicular)
2 (Diagonal)
3 (Box)
4 (Other - As Shown In Plans)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0634 4103	SPAN WIRE ASSEMBLY, F&I, 1 WIRE, BOX	PI		1/1/2007		$3,500.00
0634 4111	SPAN WIRE ASSEMBLY, F&I, 2 WIRE, PERPENDICULAR	PI		1/1/2007		$1,810.00
0634 4112	SPAN WIRE ASSEMBLY, F&I, 2 WIRE, DIAGONAL	PI		1/1/2007		$1,834.54
0634 4113	SPAN WIRE ASSEMBLY, F&I, 2 WIRE, BOX	PI		1/1/2007		$3,177.88
0634 4114	SPAN WIRE ASSEMBLY, F&I, 2 WIRE, OTHER	PI		1/1/2007		$1,689.48
0634 4122	SPAN WIRE ASSEMBLY, F&I, 3 WIRE, DIAGONAL	PI		1/1/2007		$2,159.76
0634 4411	SPAN WIRE ASSEMBLY, ADJUST, 2 WIRE, PERPENDICULAR	PI		1/1/2007		$2,258.20

0634 4412	SPAN WIRE ASSEMBLY, ADJUST, 2 WIRE, DIAGONAL	PI	1/1/2007	$1,066.67
0634 4413	SPAN WIRE ASSEMBLY, ADJUST, 2 WIRE, BOX	PI	1/1/2007	$2,319.20
0634 4414	SPAN WIRE ASSEMBLY, ADJUST, 2 WIRE, OTHER	PI	1/1/2007	$2,304.40

634- 5- A SIGNALS- FIBERGLASS INSULATOR

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **634- 5- A** **SIGNALS- FIBERGLASS INSULATOR** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0634 5 1	FIBERGLASS INSULATOR, FURNISH & INSTALL	LF		1/1/2007		$25.07

634- 6- A SIGNALS- MESSENGER WIRE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 17356, 17727
	Specifications	
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **634- 6- A** **SIGNALS- MESSENGER WIRE** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0634 6 1	MESSENGER WIRE, F&I	LF	T	1/1/2007		$2.92

634- 7- SIGNALS- CABLE, ADJUST

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes			
Details	This pay item is for traffic signals and traffic control devices only.		
Related Items	**Required**	**Recommended**	
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **634- 7-** **SIGNALS- CABLE, ADJUST** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0634 7	CABLE ADJUST	EA		1/1/2007		$1,400.00

635- 1- AB SIGNALS- PULL & JUNCTION BOXES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only.
NOT TO BE USED FOR ITS Projects. Refer to 780 items.
Use in accordance with Section 635 of the specifications. For Special sizes, detail in the plans or specifications.

Install (A=3): Plan details required to inform contractor how to obtain pull & junction box. Include Agency name, contact name & number, storage location, and/or delivery instructions (agency delivery or contractor pick-up).

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17500, 17503, 17733

Specifications

***Selected Items may require Tech Spec and/or Plan Detail**

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **635- 1- AB** **SIGNALS- PULL & JUNCTION BOXES** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0

B = Type Of Box
1 (Pull Box)
2 (Aerial Junction Box)
3 (Mounted Junction Box)
4 (Telephone Termination Assembly)
5 (Fiber Optics)
6 (Special)*

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0635 1 11	PULL & JUNCTION BOXES, F&I, PULL BOX	EA		1/1/2007		$437.69
0635 1 12	PULL & JUNCTION BOXES, F&I, AERIAL JUNCTION BOX	EA		1/1/2007		$216.93
0635 1 13	PULL & JUNCTION BOXES, F&I, MOUNTED JUNCTION BOX	EA		1/1/2007		$354.56
0635 1 15	PULL & JUNCTION BOXES, F&I, FIBER OPTICS	EA	T	1/1/2007		$920.12
0635 1 16	PULL & JUNCTION BOXES, F&I, SPECIAL	EA	T	1/1/2007		$1,783.40

639- 1- AB SIGNALS- ELECTRICAL POWER SERVICE

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17736

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0500 Signalization

Status

Struct. **639- 1- AB** **SIGNALS- ELECTRICAL POWER SERVICE** **AS**

A = Type Of Service
1 (Overhead)
2 (Underground)

B = Meter Base
1 (Furnished By Power Company)
2 (Purchased By Contractor From Power Company)
3 (Not Required)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0635 1 30	PULL & JUNCTION BOXES, INSTALL	EA	T	1/1/2007		$500.00
0639 1 11	SIGNALS, ELECTRICAL POWER SERVICE, OVERHEAD, METER FURNISHED BY POWER COMPANY	AS		1/1/2007		$1,970.19
0639 1 12	SIGNALS, ELECTRICAL POWER SERVICE, OVERHEAD, METER FURNISHED BY CONTRACTOR	AS		1/1/2007		$1,280.87
0639 1 13	SIGNALS, ELECTRICAL POWER SERVICE, OVERHEAD	AS		1/1/2007		$1,929.70
0639 1 21	SIGNALS, ELECTRICAL POWER SERVICE, UNDERGROUND, METER FURNISHED BY POWER COMPANY	AS		1/1/2007		$937.82
0639 1 22	SIGNALS,ELECTRICAL POWER SERVICE,UNDERGROUND, PURCHASED BYCONTRACTOR FROM POWER COMPANY	AS		1/1/2007		$1,239.00
0639 1 23	SIGNALS, ELECTRICAL POWER SERVICE,UNDERGROUND	AS		1/1/2007		$1,168.37

639- 2- A SIGNALS- ELECTRICAL SERVICE WIRE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
Payment shall be based on the linear foot (meter) of a single conductor. Refer to Specifications.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **639- 2- A** **SIGNALS- ELECTRICAL SERVICE WIRE** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0639 2 1	SIGNALS, ELECTRICAL SERVICE WIRE	LF		1/1/2007		$2.01

639- 3- AB SIGNALS- ELECTRICAL SERVICE DISCONNECT

Unit EA; AS **Accuracy** Each; Assembly **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17736

Specifications

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0500 Signalization

Status

Struct. **639- 3- AB** **SIGNALS- ELECTRICAL SERVICE DISCONNECT** **EA; AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Type Mount
1 (Pole)
2 (Cabinet)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0639 3 11	SIGNALS, ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA		1/1/2007		$901.82
0639 3 12	SIGNALS, ELECTRICAL SERVICE DISCONNECT, F&I, CABINET	EA		1/1/2007		$571.87

639- 4- A SIGNALS- EMERGENCY GENERATOR

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **639- 4- A** **SIGNALS- EMERGENCY GENERATOR** **AS**

A = Operation
1 (Furnish & Install)
2 (Modify)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0639 4 1	EMERGENCY GENERATOR - SIGNALS USE ONLY, F&I	AS		8/1/2008	8/10/2008	$6,000.00

641- 1- SIGNALS- STRAIN POLES, GUYING, CONCRETE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 17725	
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **641- 1-** **SIGNALS- STRAIN POLES, GUYING, CONCRETE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0641 1	STRAIN POLES GUYING, CONCRETE	EA		1/1/2007		$615.00

641- 2- AB PRESTRESSED CONCRETE POLES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective January 2008; replaces 641- AB-CDD**

Details This pay item is for traffic signals and traffic control devices only.
Pole description, including the type, height, and other details must be included in the signal plans.
to be used as detailed on index 17725. Poles must be on QPL list.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design**
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards Index No. 17725
Specifications
Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0500 Signalization

Status

Struct. **641- 2- AB** **PRESTRESSED CONCRETE POLES** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0

B = Pole Type (defined in Design Standards)
1 (Type P-II Pedestal)
2 (Type P-II Service Pole)
3 (Type P-III)
4 (Type P-IV)
5 (Type P-V)
6 (Type P-VI)
7 (Type P-VII)
8 (Type P-VIII)
9 (Custom Design)*

Notes *Custom Design requires Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0641 2 11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II PEDESTAL	EA		10/1/2007		$894.52
0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA		10/1/2007		$838.82
0641 2 13	PRESTRESSED CONCRETE POLE, F&I, TYPE P-III	EA		8/1/2008	12/31/2008	$2,000.00
0641 2 14	PRESTRESSED CONCRETE POLE, F&I, TYPE P-IV	EA		9/1/2007		$3,000.00
0641 2 15	PRESTRESSED CONCRETE POLE, F&I, TYPE P-V	EA		10/1/2007		$800.00
0641 2 16	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VI	EA		10/1/2007		$5,921.13
0641 2 17	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VII	EA		10/1/2007		$7,046.06
0641 2 18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA		10/1/2007		$8,442.93
0641 2 19	PRESTRESSED CONCRETE POLE, F&I, CUSTOM DESIGN	EA		9/1/2007		$4,000.00
0641 2 30	PRESTRESSED CONCRETE POLE, INSTALL	EA		1/1/2008		$800.00

643- 1- STRAIN POLES, GUYING, WOOD

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17356, 17727

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **643- 1-** **STRAIN POLES, GUYING, WOOD** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0643 1	STRAIN POLES, GUYING, WOOD	EA		1/1/2007		$800.00

643-ABB- STRAIN POLES, WOOD

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended** 643- 1- (2643- 1)

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **643-ABB-** **STRAIN POLES, WOOD** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
BB = Pole Length (Specified In 5' Increments Only)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0643125	STRAIN POLE, WOOD, F&I, 25'	EA		1/1/2007		$300.00
0643130	STRAIN POLES, WOOD, FURNISH & INSTALL, 30'	EA		1/1/2007		$0.00
0643140	STRAIN POLE, WOOD, FURNISH & INSTALL, 40'	EA		1/1/2007		$0.00
0643145	STRAIN POLES, WOOD, FURNISH & INSTALL, 45'	EA		1/1/2007		$0.00
0643150	STRAIN POLE, WOOD, F&I, 50'	EA		1/1/2007		$800.00

649- 1- AB STEEL STRAIN POLES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective January 2008; replaces 649- A-BCC**

Details This pay item is for traffic signals and traffic control devices only.
Pole description, including the type, height, and other details must be included in the signal

plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**		
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		***Selected Items may require Tech Spec and/or Plan Detail**	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **649- 1- AB** **STEEL STRAIN POLES** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0

B = Pole Type (defined in Design Standards)
1 (Type PS-IV)
2 (Type PS - V)
3 (Type PS-VI)
4 (Type PS-VII)
5 (Type PS - VIII)
6 (Type PS-IX)
7 (Type PS - X)
9 (Custom)*

Notes * Custom may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0649 1 13	STEEL STRAIN POLE, F&I, TYPE PS- VI	EA		1/1/2008		$12,000.00
0649 1 14	STEEL STRAIN POLE, F&I, TYPE PS- VII	EA		1/1/2008		$12,000.00
0649 1 15	STEEL STRAIN POLE, F&I, TYPE PS- VIII	EA		1/1/2008		$12,000.00
0649 1 16	STEEL STRAIN POLE, F&I, TYPE PS- I X	EA		1/1/2008		$0.00
0649 1 17	STEEL STRAIN POLE, F&I, TYPE PS- X	EA		1/1/2008		$12,000.00

649- 1A-BBB **MONOTUBE ASSEMBLIES, STEEL**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Valid through December 2007.**

Details This pay item is for traffic signals and traffic control devices only.

After December 2007: Design Standards are no longer available. Please contact the State Structures Office for assistance. Ensure that the maintaining agency and local authorities have agreed to the use of a monotube. Contact the Estimates Office to request replacement pay item(s). Tech Specs and/or Plan Details will be required.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

NOT TO BE USED FOR ITS Projects. Refer to 780 items.
Item used for monotube structures which carry signals. Refer to Plans Preparation Manual, Vol I Chapters 7 and 29, Vol II Chapter 24 for details.
Use Monotube Tabulation Sheet (available from CADD bar menu). Structures Office will determine configuration required.
Foundation included on standard; special foundation determined by structures engineer and included in plans.
Standards available in English units only; English standards may be used on metric projects.
Special: Tech Spec and/or plan detail required. Coordinate with District Specs Office

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 17746 (valid through 12/2007)	
	Specifications		
		Plan Details and/or Tech Spec required.	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **649- 1A-BBB** **MONOTUBE ASSEMBLIES, STEEL** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BBB =
001 (Special) see detail
002 (Special 2) see detail
003 (Special 3) see detail
110 (Standard 110’ span)
135 (Standard 135’ span)
160 (Standard 160’ span)
185 (Standard 185’ span)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0649 11001	STEEL MONOTUBE ASSEMBLY, FURNISH & INSTALL, SPECIAL	EA	T	5/1/2008	3/31/2009	$156,379.86
0649 11110	STEEL MONOTUBE ASSEMBLY, FURNISH & INSTALL, STANDARD 110' SPAN	EA	T	3/1/2009	3/31/2009	$100,000.00
0649 11160	STEEL MONOTUBE ASSEMBLY, FURNISH & INSTALL, STANDARD 160' SPAN	EA	T	3/1/2009	12/31/2009	$100,000.00

649- 3A-BCC STEEL MAST ARM ASSEMBLY

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective January 2008; replaces 649-ABC-DEE**

Details This pay item is for traffic signals and traffic control devices only.
Pole description, including the type, height, and other details must be included in the signal plans. Payment includes foundation, as well as all incidentals, per specifications.

B=9 (Custom) to be used only when specifications and/or standards do not apply, due to significant design changes.

When street name signs are to be located on a signals mast arm, tabulate and detail the sign (size, shape, letters, etc.) in the SIGNING plans. Load the pay item in the SIGNING category. The installation location may be shown on the signal plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHMastArmTab1; SHMast COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

***Selected Items may require Tech Spec and/or Plan Detail**

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0500 Signalization

Status

Struct. **649- 3A-BCC** **STEEL MAST ARM ASSEMBLY** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)

3 (Install) BCC=000
4 (Relocate) BCC=000

B= Wind Speed
1 (150 with signal backplates)
2 (130 with signal backplates or 150 without signal backplates)
3 (110 with signal backplates)
9 (Custom) CC=99*

CC= Arm Length(s)
For Single Arm, w/o Luminaire
01 (36)
02 (46)
03 (60)
04 (70.5)
05 (78)
For Single Arm w/ Luminaire
06 (36)
07 (46)
08 (60)
09 (70.5)
For Double Arm w/o Luminaire
10 (36-36)
11 (36-46)
12 (36-60)
13 (36-70.5)
14 (46-46)
15 (46-60)
16 (46-70.5)
17 (60-60)
18 (60-70.5)
19 (70.5-70.5)
Custom/Non-Standard Arm Combinations
99= Custom*

Notes *BC=99 (Custom) for non-standard designs. Verify with Roadway Design Office prior to opening.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0649 31101	STEEL MAST ARM,F&I, WIND SPEED-150,SINGLE ARM, W/0 LUMINAIRE-36	EA		10/1/2007		$22,350.00
0649 31102	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,W/0 LUMINAIRE-46	EA		10/1/2007		$26,823.10
0649 31103	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,W/0 LUMINAIRE-60	EA		10/1/2007		$34,016.71
0649 31104	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,W/0 LUMINAIRE-70.5	EA		10/1/2007		$37,392.49
0649 31105	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,W/0 LUMINAIRE-78	EA		10/1/2007		$39,251.99
0649 31106	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM WITH LUMINAIRE-36'	EA		10/1/2007		$20,000.00
0649 31107	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,WITH LUMINAIRE-46	EA		10/1/2007		$20,000.00

0649 31108	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,WITH LUMINAIRE-60	EA	10/1/2007		$20,000.00
0649 31109	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,WITH LUMINAIRE-70.5	EA	10/1/2007		$25,000.00
0649 31110	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 36-36	EA	10/1/2007		$30,500.00
0649 31111	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 36-46	EA	10/1/2007		$35,000.00
0649 31112	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 36-60	EA	10/1/2007		$40,267.70
0649 31113	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 36-70.5	EA	10/1/2007		$43,846.92
0649 31114	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM, W/0 LUMINAIRE, 46-46	EA	10/1/2007		$40,988.03
0649 31115	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM, W/0 LUMINAIRE, 46-60	EA	10/1/2007		$46,772.99
0649 31116	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 46-70.5	EA	10/1/2007		$48,695.27
0649 31117	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 60-60	EA	10/1/2007		$49,704.67
0649 31118	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 60-70.5	EA	10/1/2007		$50,931.98
0649 31119	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/0 LUMINAIRE, 70.5' AND 70.5'	EA	10/1/2007		$54,119.03
0649 31199	MAST ARM,F&I, WIND SPEED-150,CUSTOM	EA	10/1/2007	7/31/2010	$59,739.97
0649 31201	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/0 LUMINAIRE-36	EA	10/1/2007		$19,321.37
0649 31202	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/0 LUMINAIRE-46	EA	10/1/2007		$22,623.94
0649 31203	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/0 LUMINAIRE-60	EA	10/1/2007		$28,548.09
0649 31204	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/0 LUMINAIRE, ARM LENGTH 70.5	EA	10/1/2007		$41,416.19
0649 31205	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/0 LUMINAIRE, ARM LENGTH 78	EA	10/1/2007		$46,641.47
0649 31206	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/0 LUMINAIRE, ARM LENGTH 36'	EA	10/1/2007		$0.00

0649 31207	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/ LUMINAIRE, ARM LENGTH 46	EA		10/1/2007	$20,000.00
0649 31208	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/ LUMINAIRE, ARM LENGTH 60	EA		10/1/2007	$22,000.00
0649 31209	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/ LUMINAIRE, ARM LENGTH 70.5	EA		10/1/2007	$36,773.50
0649 31210	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/ LUMINAIRE, ARM LENGTH 36' AND 36'	EA		10/1/2007	$0.00
0649 31211	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 36-46	EA		10/1/2007	$25,000.00
0649 31212	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 36-60	EA		10/1/2007	$35,875.00
0649 31213	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 36-70.5	EA		10/1/2007	$37,165.00
0649 31214	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 46' AND 46'	EA		10/1/2007	$0.00
0649 31215	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 46-60	EA		10/1/2007	$42,090.16
0649 31216	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 46-70.5	EA		10/1/2007	$42,895.00
0649 31217	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 60-60	EA		10/1/2007	$45,708.47
0649 31218	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 60-70.5	EA		10/1/2007	$47,227.10
0649 31219	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/0 LUMINAIRE, 70.5' AND 70.5'	EA		10/1/2007	$0.00
0649 31299	MAST ARM,F&I, WIND SPEED-130, CUSTOM	EA	T	10/1/2007	$53,188.52
0649 31301	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/0 LUMINAIRE-36	EA		10/1/2007	$20,000.00
0649 31302	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/0 LUMINAIRE-46	EA		10/1/2007	$19,478.33
0649 31303	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/0 LUMINAIRE-60	EA		10/1/2007	$23,366.67
0649 31304	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/0 LUMINAIRE-70.5	EA		10/1/2007	$28,960.96
0649 31305	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/0 LUMINAIRE-78	EA		10/1/2007	$31,653.73

0649 31306	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,WITH LUMINAIRE-36	EA		10/1/2007	$18,000.00
0649 31307	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,WITH LUMINAIRE-46	EA		10/1/2007	$20,000.00
0649 31308	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,WITH LUMINAIRE-60	EA		10/1/2007	$20,000.00
0649 31309	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/ LUMINAIRE-70.5	EA		10/1/2007	$25,000.00
0649 31310	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 36' AND 36'	EA		10/1/2007	$25,000.00
0649 31311	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 36' AND 46'	EA		10/1/2007	$25,000.00
0649 31312	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 36' AND 60'	EA		10/1/2007	$25,000.00
0649 31313	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 36' AND 70.5'	EA		1/1/2008	$35,790.77
0649 31314	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 46' AND 46'	EA		10/1/2007	$25,000.00
0649 31315	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 46' AND 60'	EA		10/1/2007	$35,196.00
0649 31316	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 46' AND 70.5'	EA		1/1/2008	$25,000.00
0649 31317	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 60' AND 60'	EA		10/1/2007	$36,704.99
0649 31318	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 60-70.5	EA		10/1/2007	$33,496.48
0649 31319	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/0 LUMINAIRE, 70.5' AND 70.5'	EA		10/1/2007	$30,000.00
0649 31399	MAST ARM,F&I, WIND SPEED-110, CUSTOM ARM(S)	EA	T	10/1/2007	$40,169.99
0649 31999	MAST ARM,F&I, CUSTOM WIND SPEED, CUSTOM ARM LENGTH(S)	EA		1/1/2008	$63,100.19
0649 33000	MAST ARM, INSTALL	EA		1/1/2007	$0.00
0649 34000	MAST ARM, RELOCATE	EA		1/1/2007	$14,239.90

649-ABC-DEE **MAST ARM ASSEMBLY**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Valid through December 2007 letting; replaced by 649-3A-BCC.**

Details

This pay item is for traffic signals and traffic control devices only.
Refer to Plans Preparation Manual- Vol I Chapter 29, Vol II Chapter 24, and/or Standards for details. Mast Arm Tabulation Sheet required in plans, in addition to tabulation of quantities.
If a Mast Arm assembly is required that differs from the standards, then a special design is performed and the details placed in the plans.
Mast Arms "A" to be replaced by "B".
Mast Arms "B" for 110 MPH wind w/signal backplate.
Mast Arms "C" for 90 MPH wind w/signal backplate, or 110 MPH wind, without backplate.
Arm and pole types, as noted in standards and pay item structure.
Foundation design is included on standard. Special Foundation designs to be determined by Structures Engineer and included with the plans, if needed.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 17741, 17743, and 17745	
	Specifications		
		***Selected Items may require Tech Spec and/or Plan Detail**	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **649-ABC-DEE** **MAST ARM ASSEMBLY** **EA**

A = Operation
4 (Furnish & Install / high loading)
5 (Furnish / high loading)
6 (Install / high loading)
7 (Furnish & Install / reduced loading)
8 (Furnish / reduced loading)
9 (Install / reduced loading)

B = Structure Type
1 (Single Arm Without Luminaire)
2 (Double Arm Without Luminaire)
3 (Single Arm With Luminaire)
4 (Special Design) C = 0, DEE = blank

C = First Arm Type (A=4-6)
1 (B1)
2 (B2)
3 (B3)
4 (B4)
5 (B5)

6 (B6)
7 (B7)
C = First Arm Type (A=7-9)
1 (C1)
2 (C2)
3 (C3)
4 (C4)
5 (C5)
6 (C6)
7 (C7)

D = Second Arm Type (A=4-6)
0 (No Second Arm)
1 (B1)
2 (B2)
3 (B3)
4 (B4)
5 (B5)
6 (B6)
D = Second Arm Type (A=7-9)
0 (No Second Arm)
1 (C1)
2 (C2)
3 (C3)
4 (C4)
5 (C5)
6 (C6)

EE = Upright Pole Type (A=4-6)
01 (Q1)
02 (Q2)
03 (Q3)
04 (Q4)
05 (Q5)
06 (Q6)
07 (Q21 Lum)
08 (Q22 Lum)
09 (Q23 Lum)
10 (Q24Lum)
11 (Special Design)
EE = Upright Pole Type (A=7-9)
01 (R1)
02 (R2)
03 (R3)
04 (R4)
05 (R5)
06 (R6)
07 (R21 Lum)
08 (R22 Lum)
09 (R23 Lum)
10 (R24Lum)
11 (Special Design)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

650- 5A-BCD	**TRAFFIC SIGNAL**

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only.
Includes standard traffic signal, with LED indicators, and all other materials necessary for a complete and accepted installation.

Relocate: Includes the removal of the signal head and installation at the location shown in the plans. This includes signal cable and all other materials necessary for a complete and accepted relocation.

Special: DO NOT Use this item for LED (standard) signals. "Special" types should be submitted to the State Traffic Ops office for review.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **650- 5A-BCD** **TRAFFIC SIGNAL** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BCD=blank
4 (Relocate) BCD=blank

B = Number Of Sections On Each Face

C = Number Of Directions

D = Type
1 (Standard) LED indicators
2 (Light Weight)
3 (Special) see detail

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0650 51111	TRAFFIC SIGNAL, F&I, 1 SECTION, 1 WAY, STANDARD	AS		1/1/2007		$594.89
0650 51112	TRAFFIC SIGNAL, F&I, 1 SECTION, 1 WAY, LIGHT WEIGHT	AS		1/1/2007		$0.00
0650 51113	TRAFFIC SIGNAL, F&I, 1 SECTIONS, 1 WAY, SPECIAL	AS	T	1/1/2007		$483.42

0650 51121	TRAFFIC SIGNAL, F&I, 1 SECTIONS, 2 WAY, STANDARD	AS		1/1/2007	$1,297.50
0650 51122	TRAFFIC SIGNAL, F&I, 1 SECTIONS, 2 WAY, LIGHT WEIGHT	AS		1/1/2007	$1,000.00
0650 51123	TRAFFIC SIGNAL, F&I, 1 SECTIONS, 2 WAY, SPECIAL	AS	T	1/1/2007	$644.57
0650 51131	SIGNAL TRAFFIC, F&I, 1 SECT, 3 WAY, STD	AS		1/1/2007	$0.00
0650 51132	SIGNAL TRAFFIC, F&I, 1 SECT, 3 WAY, LIGHT WEIGHT	AS		1/1/2007	$0.00
0650 51133	TRAFFIC SIGNAL, F&I, 1 SECTIONS, 3 WAY, SPECIAL	AS	T	1/1/2007	$1,000.00
0650 51141	SIGNAL TRAFFIC, F&I, 1 SECT, 4 WAY, STD	AS		1/1/2007	$1,432.49
0650 51142	SIGNAL TRAFFIC, F&I, 1 SECT, 4 WAY, LIGHT WEIGHT	AS		1/1/2007	$1,500.00
0650 51143	TRAFFIC SIGNAL, F&I, 1 SECTIONS, 4 WAY, SPECIAL	AS	T	1/1/2007	$1,500.00
0650 51211	TRAFFIC SIGNAL, F&I, 2 SECTION, 1 WAY, STANDARD	AS		1/1/2007	$1,000.00
0650 51212	TRAFFIC SIGNAL, F&I, 2 SECTION, 1 WAY, LIGHT WEIGHT	AS		1/1/2007	$1,000.00
0650 51213	TRAFFIC SIGNAL, F&I, 2 SECTIONS, 1 WAY, SPECIAL	AS	T	1/1/2007	$1,000.00
0650 51311	TRAFFIC SIGNAL, F&I, 3 SECTION, 1 WAY, STANDARD	AS		1/1/2007	$852.72
0650 51312	TRAFFIC SIGNAL, F&I, 3 SECTIONS, 1 WAY, LIGHT WEIGHT	AS		1/1/2007	$869.76
0650 51313	TRAFFIC SIGNAL, F&I, 3 SECTIONS, 1 WAY, SPECIAL	AS	T	1/1/2007	$821.31
0650 51321	TRAFFIC SIGNAL, F&I, 3 SECTION, 2 WAY, STANDARD	AS		1/1/2007	$1,513.91
0650 51322	TRAFFIC SIGNAL, F&I, 3 SECTION, 2 WAY, LIGHT WEIGHT	AS		1/1/2007	$1,500.00
0650 51323	TRAFFIC SIGNAL, F&I, 3 SECTIONS, 2 WAY, SPECIAL	AS	T	1/1/2007	$1,700.00
0650 51331	TRAFFIC SIGNAL, F&I, 3 SECTION, 3 WAY, STANDARD	AS		1/1/2007	$0.00
0650 51332	TRAFFIC SIGNAL, F&I, 3 SECTION, 3 WAY, LIGHT WEIGHT	AS		1/1/2007	$1,500.00
0650 51341	TRAFFIC SIGNAL, F&I, 3 SECTION, 4 WAY, STANDARD	AS		1/1/2007	$0.00
0650 51342	TRAFFIC SIGNAL, F&I, 3 SECTION, 4 WAY, LIGHT WEIGHT	AS		1/1/2007	$1,500.00
0650 51411	TRAFFIC SIGNAL, F&I, 4 SECT 1 WAY, STD	AS		1/1/2007	$1,128.00
0650 51511	TRAFFIC SIGNAL, F&I, 5 SECTIONS, 1 WAY, STANDARD	AS		1/1/2007	$1,304.29
0650 51512	TRAFFIC SIGNAL, F&I, 5 SECTIONS, 1 WAY, LIGHT WEIGHT	AS		1/1/2007	$1,311.70

0650 51513	TRAFFIC SIGNAL, F&I, 5 SECTIONS, 1 WAY, SPECIAL	AS	T	1/1/2007	$1,286.31
0650 51521	SIGNAL TRAFFIC, F&I, 5 SECT, 2 WAY, STD	AS		1/1/2007	$1,500.00
0650 51522	TRAFFIC SIGNAL, F&I, 5 SECTIONS, 2 WAY, LIGHT WEIGHT	AS		1/1/2007	$2,498.75
0650 53	TRAFFIC SIGNAL, INSTALL	AS		1/1/2007	$238.52
0650 54	TRAFFIC SIGNAL, RELOCATE	AS		1/1/2007	$206.85

653-ABC- PEDESTRIAN SIGNAL

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17764, 17784

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **653-ABC-** **PEDESTRIAN SIGNAL** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate) BC=00

B = Type Signal
1 (12" Incandescent)
2 (12" Fiber Optic)
3 (Optically Programmed)
4 (Neon)
5 (9" Incandescent)
6 (9" Fiber Optic)
7 (Neon International Symbol Low Wattage)
8 (LED)
9 (LED- Countdown) STANDARD

C = Number Of Directions (Ways)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0653111	SIGNAL PEDESTRIAN, 12 INCH, INCANDESCENT, 1 WAY	AS		1/1/2007		$400.00
0653112	SIGNAL PEDESTRIAN, 12 INCH, INCANDESCENT, 2 WAY	AS		1/1/2007		$0.00
0653151	SIGNAL PEDESTRIAN, 9 INCH, INCANDESCENT, 1 WAY	AS		1/1/2007		$0.00
0653171	SIGNAL PEDESTRIAN, NEON INTERNATIONAL SYMBOL LOW WATTAGE, 1 WAY	AS		1/1/2007		$846.67
0653172	SIGNAL PEDESTRIAN, NEON INTERNATIONAL SYMBOL LOW WATTAGE, F&I, 2 WAY	AS		1/1/2007		$1,000.00
0653181	PEDESTRIAN SIGNAL, F&I, LED, 1 DIRECTION	AS		1/1/2007		$853.15
0653182	PEDESTRIAN SIGNAL, F&I, LED, 2 DIRECTIONS	AS		1/1/2007		$1,715.73
0653191	PEDESTRIAN SIGNAL, F&I, LED - COUNT DOWN, 1 DIRECTION	AS		1/1/2007		$777.50
0653192	PEDESTRIAN SIGNAL, F&I, LED - COUNT DOWN, 2 DIRECTIONS	AS		1/1/2007		$1,376.14
0653193	PEDESTRIAN SIGNAL, F&I, LED - COUNT DOWN, 3 DIRECTIONS	AS		1/1/2007		$1,476.74
0653281	PEDESTRIAN SIGNAL, FURNISH, LED, 1 WAY	EA		1/1/2007		$689.00
0653291	PEDESTRIAN SIGNAL , FURNISH, LED-COUNT DOWN,1 DIRECTION	AS		1/1/2007		$461.80
0653292	PEDESTRIAN SIGNAL, FURNISH,LED-COUNT DOWN, 2 DIRECTIONS	AS		1/1/2007		$500.00
0653311	PEDESTRIAN SIGNAL,INSTALL,12" INCANDESCENT,1 DIRECTION	AS		1/1/2007		$0.00
0653312	PEDESTRIAN SIGNAL,INSTALL,12" INCANDESCENT,2 DIRECTIONS	AS		1/1/2007		$300.00
0653381	PEDESTRIAN SIGNAL, INSTALL, LED, 1 WAY	EA		1/1/2007		$834.21
0653391	PEDESTRIAN SIGNAL , INSTALL, LED - COUNT DOWN, 1 DIRECTION	AS		1/1/2007		$256.62
0653392	PEDESTRIAN SIGNAL , INSTALL, LED - COUNT DOWN, 2 DIRECTION	AS		1/1/2007		$300.00
0653400	SIGNAL PEDESTRIAN, RELOCATE	AS		1/1/2007		$257.98

659-ABB- SIGNAL HEAD AUXILIARIES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **659-ABB-** **SIGNAL HEAD AUXILIARIES** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = 01 (Back Plates, 3 Section)
02 (Back Plates, 4 Section)
03 (Disconnect Hanger)
04 (Signal Lamps 140 Watt Max.)
05 (Signal Lamps 60 Watt Max.)
06 (Tunnel Visor)
07 (Aluminum Pedestal)
08 (Steel Pedestal)
09 (Concrete Pedestal, Type II)
10 (Louvers)
11 (Back Plates, 1-Section)
12 (Mounting Brackets, 2-Way)
13 (Mounting Brackets, 3-Way)
14 (Mounting Brackets, 4-Way)
15 (12" Lens)
16 (8" Lens)
17 (Signal Frame)
18 (Back Plates, 5-Section Cluster)
20 (LED Module)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0659101	SIGNAL HEAD AUXILIARIES, F&I, BACK PLATES 3 SECT	EA		1/1/2007		$97.48
0659102	SIGNAL HEAD AUXILIARIES, F&I, BACK PLATES 4 SECT	EA		1/1/2007		$103.67
0659103	SIGNAL HEAD AUXILIARIES, FURNISH & INSTAL, DISCONNECT HANGER	EA		1/1/2007		$150.00
0659104	SIGNAL HEAD AUXILIARIES, FURNISH & INSTAL, SIGNAL LAMPS 140 WATT MAX	EA		1/1/2007		$0.00
0659106	SIGNAL HEAD AUXILIARIES, F&I, TUNNEL VISOR	EA		1/1/2007		$6.25

0659107	SIGNAL HEAD AUXILIARIES, F&I, ALUMINUM PEDESTAL	EA	1/1/2007	$836.99
0659108	SIGNAL HEAD AUXILIARIES, F&I, STEEL PEDESTAL	EA	1/1/2007	$1,138.90
0659109	SIGNAL HEAD AUXILIARIES, F&I, CONC PEDESTAL TYPE II	EA	1/1/2007	$750.39
0659110	SIGNAL HEAD AUXILIARIES, F&I, LOUVERS	EA	1/1/2007	$121.18
0659111	SIGNAL HEAD AUXILIARIES, F&I, BACK PLATES, 1 SECTION	EA	1/1/2007	$97.33
0659112	SIGNAL HEAD AUXILIARIES, F&I, MOUNTING BRACKETS, 2- WAY	EA	1/1/2007	$0.00
0659118	SIGNAL HEAD AUXILIARIES, F&I, BACK PLATES, 5 SECT CLUSTER	EA	1/1/2007	$173.85
0659120	SIGNAL HEAD AUXILIARIES, F&I, LED MODULE	EA	1/1/2007	$47.24
0659307	SIGNAL HEAD AUXILIARIES, INSTALL, ALUMINUM PEDESTAL	EA	1/1/2007	$621.10
0659308	SIGNAL HEAD AUXILIARIES, INSTALL, STEEL PEDESTAL	EA	1/1/2007	$1,029.67
0659309	SIGNAL HEAD AUXILIARIES, INSTALL, CONC PEDESTAL TYPE II	EA	1/1/2007	$200.00

660- 1-ABB LOOP DETECTOR, INDUCTIVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **660- 1-ABB** **LOOP DETECTOR, INDUCTIVE** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Type
01 (Type 1, 1 Ch, R, S)
02 (Type 2, 1 Ch, R, S, TD)
03 (Type 3, 1 Ch, SS, S))
04 (Type 4, 1 Ch, SS, S, TD)
05 (Type 5, 2 Ch, SS, S)
06 (Type 6, 2 Ch, SS, S, TD)
07 (Type 7, 4 Ch, SS, S)
08 (Type 8, 4 Ch, SS, S, TD)
09 (Type 9, 2 Ch, SS, RM)
10 (Type 10, 2 Ch, SS, RM, TD)
11 (Type 11, 4 Ch, SS, RM)
12 (Type 12, 4 Ch, SS, RM, TD)
Legend
Ch = Channel
R = Relay Output
S = Shelf Mounted
TD = Time Delay
RM = Rack Mounted
SS = Solid State

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0660 1101	LOOP DETECTOR INDUCTIVE, F&I, TYPE 1	EA		1/1/2007		$230.02
0660 1102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	EA		1/1/2007		$192.90
0660 1103	LOOP DETECTOR INDUCTIVE, F&I, TYPE 3	EA		1/1/2007		$143.06
0660 1104	LOOP DETECTOR, INDUCTIVE, F&I, TYPE 4, 2CHANNEL, SOLID STATE, SHELF MOUNTED, TIME DELAY	EA		1/1/2007		$178.30
0660 1105	LOOP DETECTOR, INDUCTIVE, F&I, TYPE 5, 2CHANNEL, SOLID STATE, SHELF MOUNTED	EA		1/1/2007		$271.53
0660 1106	LOOP DETECTOR INDUCTIVE , F&I, TYPE 6, 2 CH,SS,S,TD	EA		1/1/2007		$325.84
0660 1107	LOOP DETECTOR INDUCTIVE , F&I, TYPE 7, 4 CH,SS,S	EA		1/1/2007		$329.16
0660 1109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	EA		1/1/2007		$188.48
0660 1110	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10	EA		1/1/2007		$198.66
0660 1111	LOOP DETECTOR INDUCTIVE, F&I, TYPE 11, 4 CH, SS, RM	EA		1/1/2007		$199.58
0660 1112	LOOP DETECTOR INDUCTIVE, F&I, TYPE 12, 4 CH, SS, RM, TD	EA		1/1/2007		$213.86

660- 2-ABB LOOP ASSEMBLY

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
Includes cost of loop material, labor, etc. according to specifications.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17781

Specifications

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **660- 2-ABB** **LOOP ASSEMBLY** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Type
01 (Type A)
02 (Type B)
03 (Type C)
04 (Type D)
05 (Type E)
06 (Type F)
07 (Type G)
08 (Type H)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0660 2101	LOOP ASSEMBLY- F&I, TYPE A	AS		1/1/2007		$803.63
0660 2102	LOOP ASSEMBLY, F&I, TYPE B	AS		1/1/2007		$681.68
0660 2103	LOOP ASSEMBLY, F&I, TYPE C	AS		1/1/2007		$676.80
0660 2105	LOOP ASSEMBLY, F&I, TYPE E	AS		1/1/2007		$1,000.00
0660 2106	LOOP ASSEMBLY, F&I, TYPE F	AS		1/1/2007		$851.01
0660 2107	LOOP ASSEMBLY, F&I, TYPE G	AS		1/1/2007		$1,000.00

663- 72- A VEHICLE DETECTOR SUPPORT APPURTENANCES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **663- 72- A** **VEHICLE DETECTOR SUPPORT APPURTENANCES** **EA**

A =
1 (Readers)
2 (Memory Modules)
3 (Software)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

663- 74- AB VEHICLE DETECTOR ASSEMBLIES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only.
Includes all work and materials necessary for a complete assembly, as detailed in the plans or specifications.
For Relocate operation, ensure that plans/specs detail removal and re-installation instructions, as well as guidance if detector is damaged or broken.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **663- 74- AB** **VEHICLE DETECTOR ASSEMBLIES** **EA**

A = Operation
1 (Furnish & Install)
4 (Relocate)

B = Assembly Type
1 (Optical Type)
2 (Infrared)
3 (Road Tube)
4 (Optical- Emergency Pre-emption)
5 (Video)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0663 74 11	VEHICLE DETECTOR ASSEM, F&I, OPTICAL TYPE	EA	T	1/1/2007		$5,473.45
0663 74 12	VEHICLE DETECTOR ASSEMBLIES, F&I, INFRARED	EA	T	1/1/2007		$2,043.48
0663 74 45	VEHICLE DETECTOR ASSEM, RELOCATE, VIDEO	EA	T	1/1/2008		$1,000.00

665- AB- PEDESTRIAN DETECTOR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
Includes pedestrian signs, as shown on index 17784.

For Relocate, ensure that plans/specs detail removal and re-installation instructions, as well as guidance if detector is damaged or broken.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17784

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **665- AB-** **PEDESTRIAN DETECTOR** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate) B=0 see details above

B = Assembly Type
1 (Pole Or Controller Cabinet Mounted Detector Station)
2 (Detector Station With Post)
3 (Detector With Sign Only)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0665 11	PEDESTRIAN DETECTOR, F&I, DETECTOR STATION, POLE OR CONTROLLER CABINET MOUNTED	EA		1/1/2007		$186.74
0665 12	PEDESTRIAN DETECTOR, F&I, DETECTOR STATION WITH POST	EA		1/1/2007		$259.23
0665 13	PEDESTRIAN DETECTOR, F&I, DETECTOR WITH SIGN ONLY	EA		1/1/2007		$166.59
0665 31	PEDESTRIAN DETECTOR, INSTALL, POLE / CONTROLLER CABINET MOUNTED DETECTOR STATION	EA		1/1/2007		$300.00
0665 33	PED DET, INS, DET W/SIGN ONLY	EA		1/1/2007		$94.00
0665 40	PEDESTRIAN DETECTOR, RELOCATE	EA		1/1/2007		$148.12

668- AB- **DETECTOR CABINET (SIGNALS)**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **668- AB-** **DETECTOR CABINET (SIGNALS)** **EA**

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Cabinet Size (Minimum)
1 (Type I 13" X 10" X 6")
2 (Type II 27" X 15" X 12")
3 (Type III 32" X 20" X 14")
4 (Type IV 48" X 29" X 16")
5 (Type V 54" X 38" X 24")
6 (Type Vi 74" X 38" X 24")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0668 11	DETECTOR CABINET, FURNISH & INSTALL, TYPE I 13"X10"X6"	EA		1/1/2007		$1,000.00
0668 12	DETECTOR CABINET, FURNISH & INSTALL, TYPE II 27"X15"X12"	EA		1/1/2007		$5,067.69
0668 13	DETECTOR CABINET, SIGNALS, F&I, TYPE III, 32"X20"X14"	EA		1/1/2007		$3,000.00
0668 14	DETECTOR CABINET, SIGNALS, F&I, TYPE IV, 48"X29"X16"	EA		1/1/2007		$10,550.00
0668 16	DETECTOR CABINET, SIGNALS, F&I, TYPE VI, 74"X38"X24"	EA		1/1/2007		$13,259.98
0668 33	DETECTOR CABINET, INS, TYPE III, 32"X20"X14"	EA		1/1/2007		$2,393.33
0668 35	DETECTOR CABINET, INS, TYPE V, 54"X38"X24"	EA		1/1/2007		$1,478.84

670- 4- A **FLASHING BEACON CONTROLLER ASSEMBLY**

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17841

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **670- 4- A** **FLASHING BEACON CONTROLLER ASSEMBLY** **AS**

A =
1 (Furnish & Install)
2 (Furnish)
3 (Install)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0670 4 1	FLASHING BEACON CONTROLLER ASSEMBLY, F&I	AS		1/1/2007		$2,154.36
0670 4 3	FLASHING BEACON CONTROLLER ASSEMBLY, INS	AS		1/1/2007		$973.04

670- 5-ABC TRAFFIC CONTROLLER ASSEMBLY

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

***Selected Items may require Tech Spec and/or Plan Detail**

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **670- 5-ABC** **TRAFFIC CONTROLLER ASSEMBLY** **AS**

A =
1 (Furnish & Install)
2 (Furnish)

3 (Install)
4 (Modify)

B = Type
1 (NEMA)
2 (170)
3 (Special)*

C = Special Features
0 (None)
1 (One Preemption Plan)
2 (Two Preemption Plans)

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0670 5110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS		1/1/2007		$17,421.00
0670 5111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS		1/1/2007		$20,274.92
0670 5112	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 2 PREEMPTION	AS		1/1/2007		$24,116.12
0670 5120	TRAFFIC CONTROLLER ASSEMBLY, F&I, 170	AS		1/1/2007		$17,981.44
0670 5121	TRAFFIC CONTROLLER ASSEMBLY, F&I, 170, 1 PREEMPTION PLAN	AS		1/1/2007		$17,221.00
0670 5122	TRAFFIC CONTROLLER ASSEMBLY, F&I,170,2 PREEMPTION PLANS	AS		1/1/2007		$19,624.90
0670 5130	TRAFFIC CONTROLLER ASSEMBLY, F&I, SPECIAL	AS	T	1/1/2007		$19,068.20
0670 5131	TRAFFIC CONTROLLER ASSEMBLY, F&I, SPECIAL ONE PREEMPTION PLAN	AS	T	1/1/2007		$20,531.04
0670 5132	TRAFFIC CONTROLLER ASSEMBLY, F&I, SPECIAL, 2 PREEMPTION PLANS	AS	T	1/1/2007		$20,166.80
0670 5210	TRAFFIC CONTROLLER ASSEMBLY, FURNISH, NEMA	AS		1/1/2007		$0.00
0670 5212	TRAFFIC CONTROLLER ASSEMBLY, FURNISH, NEMA, 2 PREEMPTION PLANS	AS		8/1/2008	12/31/2008	$10,000.00
0670 5222	TRAFFIC CONTROLLER ASSEMBLY, FURNISH, TYPE 170, 2 PREEMPTION PLANS	AS		8/1/2008	12/31/2008	$10,000.00
0670 5310	TRAFFIC CONTROLLER ASSEMBLY, INSTALL, NEMA	AS		1/1/2007		$0.00
0670 5311	TRAFFIC CONTROLLER ASSEMBLY, INSTALL, NEMA, 1 PREEMPT	AS		1/1/2007		$2,000.00
0670 5312	TRAFFIC CONTROLLER ASSEMBLY, INSTALL, NEMA, 2 PREEMPTION PLANS	AS		8/10/2008	12/31/2008	$2,500.00
0670 5320	TRAFFIC CONTROLLER ASSEMBLY, INSTALL, 170	AS		1/1/2007		$2,000.00

0670 5322	TRAFFIC CONTROLLER ASSEMBLY, INSTALL, 170, 2 PREEMPTION PLANS	AS		8/1/2008	12/31/2008	$2,500.00
0670 5330	TRAFFIC CONTROLLER ASSEMBLY, INSTALL, SPECIAL	AS	T	1/1/2007		$2,167.20
0670 5331	TRAFFIC CONTROLLER ASSEMBLY, INSTALL, SPECIAL ONE PREEMPTION PLAN	AS	T	1/1/2007		$1,002.67
0670 5410	TRAFFIC CONTROLLER ASSEMBLY, MODIFY, NEMA	AS		1/1/2007		$1,980.60
0670 5411	TRAFFIC CONTROLLER ASSEMBLY, MODIFY, NEMA, 1 PREEMPT	AS		1/1/2007		$260.60
0670 5412	TRAFFIC CONTROLLER ASSEMBLY, MODIFY, NEMA, 2 PREEMPT	AS		1/1/2007		$462.64
0670 5420	TRAFFIC CONTROLLER ASSEMBLY, MODIFY, 170	AS		1/1/2007		$809.50
0670 5430	TRAFFIC CONTROLLER ASSEMBLY, MODIFY, SPECIAL	AS	T	1/1/2007		$1,524.12
0670 5431	TRAFFIC CONTROLLER ASSEMBLY, MODIFY, SPECIAL, 1 PREEMPTION PLANS	AS		1/1/2007		$785.27
0670 5432	TRAFFIC CONTROLLER ASSEMBLY, MODIFY, SPECIAL, 2 PREEMPTION PLANS	AS		1/1/2007		$1,000.00
0670 5520	TRAFFIC CONTROLLER ASSEMBLY, RELOCATE, 170	AS		1/1/2007		$2,000.00

671- 2- AB TRAFFIC CONTROLLER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **671- 2- AB** **TRAFFIC CONTROLLER** **EA**

A =
1 (Furnish & Install)

2 (Furnish)
3 (Install)
4 (Modify)

B = Type
1 (NEMA)
2 (170)
3 (Special)
4 (2070)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0671 2 11	TRAFFIC CONTROLLER, F&I, NEMA	EA		1/1/2007		$3,818.14
0671 2 41	TRAFFIC CONTROLLER, MODIFY, NEMA	EA		1/1/2007		$486.05
0671 2 42	TRAFFIC CONTROLLER, MODIFY, 170	EA		1/1/2007		$1,578.31

678- 1-ABB CONTROLLER ACCESSORIES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **678- 1-ABB** **CONTROLLER ACCESSORIES** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Type Of Controller Accessory
01 (Type 3 Conflict Monitor)
02 (Type 6 Conflict Monitor)
03 (Type 12 Conflict Monitor)
04 (Load Switch)
05 (Type 1 Flasher)
06 (Type 3 Flasher)

07 (Type 1 Time Switch)
08 (Type 2 Time Switch)
09 (Type 3 Time Switch)
10 (Type 4 Time Switch)
11 (Power Reduction Assembly)
12 (Master Clock Unit)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0678 1103	CONTROLLER ACCESSORIES, F&I, TYPE 12CONFLICT MONITOR	EA		1/1/2007		$1,041.18
0678 1104	CONTROLLER ACCESSORIES, F&I, LOAD SWITCH	EA		1/1/2007		$58.08
0678 1105	CONTROLLER ACCESSORIES, F&I, TYPE 1 FLASHER	EA		1/1/2007		$320.35
0678 1106	CONTROLLER ACCESSORIES, F&I, TYPE 3 FLASHER	EA		1/1/2007		$180.89
0678 1107	CONTROLLER ACCESSORIES, F&I, TYPE 1 TIME SWITCH	EA		1/1/2007		$500.00
0678 1109	CONTROLLER ACCESSORIES, F&I, TYPE 3 TIME SWITCH	EA		1/1/2007		$520.38
0678 1110	CONTROLLER ACCESSORIES, F&I, TYPE 4 TIME SWITCH	EA		1/1/2007		$449.93
0678 1111	CONTROLLER ACCESSORIES, F&I, POWER REDUCTION ASSEMBLY	EA		1/1/2007		$1,050.68
0678 1112	CONTROLLER ACCESSORIES, F&I, MASTER CLOCK UNIT	EA		1/1/2007		$2,619.04
0678 1305	CONTROLLER ACCESSORIES, INSTALL, TYPE 1 FLASHER	EA		1/1/2007		$500.00

680-ABB- SYSTEM CONTROL EQUIPMENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only.
Detailed plan notes or specifications to be provided by designer.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items

	Required	Recommended
Forms	**Design** SHTabQuant	COMP 700-050-03
	Construction Refer to Comp Book	
Documentation	**Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**	
	Other	

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **680-ABB-** **SYSTEM CONTROL EQUIPMENT** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

BB = Item As Described
01 (CPU)
02 (Card Reader)
03 (Keyboard Printer)
04 (Line Printer)
05 (Disc Memory System)
06 (Communications Interface)
07 (Display Map Interface)
08 (Mag Type System)
09 (Keyboard CRT)
10 (Control Console)
11 (Roadside Master)
12 (Card Punch)
13 (Central Microcomputer Assembly)
14 (Central Modem Card)
15 (Autodial/Answer Ext Communications Modem)
16 (Fiber Optic, FSK Modem)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0680104	SYSTEM CONTROL EQUIPMENT,F&I, LINE PRINTER	EA	T	1/1/2007		$7,013.64
0680106	SYSTEM CONTROL EQUIPMENT,F&I, COMMUNICATION INTERFACE	EA	T	1/1/2007		$1,000.00
0680111	SYSTEM CONTROL EQUIPMENT, FURNISH AND INSTALL ROADSIDE MASTER	EA	T	1/1/2007		$5,827.50
0680113	SYSTEM CONTROL EQUIPMENT,F&I, CENTRAL MICROCOMPUTER ASSEMBLY	EA	T	1/1/2007		$11,752.03
0680114	SYSTEM CONTROL EQUIPMENT,F&I, MODEM CARD	EA	T	1/1/2007		$500.00
0680115	SYSTEM CONTROL EQUIPMENT, F&I, AUTODIAL / ANSWER EXT COMM MODEM	EA	T	1/1/2007		$533.00
0680116	SYSTEM CONTROL EQUIPMENT,F&I, FIBER OPTIC, FSK MODEM	EA	T	1/1/2007		$2,081.16

681-ABB- SYSTEM SOFTWARE

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **681-ABB-** **SYSTEM SOFTWARE** **LS/LS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BB=00

BB = Item As Described
01 (CPU Software)
02 (UTCS Fortran Routines)
03 (UTCS Assembly Language Routines)
04 (Data Base)
05 (Control Patterns)
06 (Data Base Generator)
07 (Pattern Generator)
08 (SCS Operating Software)
09 (Motorist Aid Operating Software)
10 (Weigh In Motion Operating Software)
11 (Traffic Control System Software)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0681101	SYSTEM SOFTWARE, F&I, CPU SOFTWARE	LS	T	1/1/2007		$6,392.08
0681104	SYSTEM SOFTWARE, F&I, DATA BASE	LS	T	1/1/2007		$24,172.37
0681111	SYSTEM SOFTWARE, F&I, TRAFFIC CONTOL SYSTEM SOFTWARE	LS	T	1/1/2007		$37,563.52

682-ABB- SYSTEM DISPLAY

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
Refer to ITS Items for Intelligent Transportation System applications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **682-ABB-** **SYSTEM DISPLAY** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

BB = Item As Described
01 (CRT Display)
02 (Panel Board Map)
03 (Projected Display)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0682101	SYSTEM DISPLAY, CRT DISPLAY	EA	T	1/1/2007		$500.00

683-ABB- SYSTEM COMMUNICATIONS

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
Tabulation summary required on all projects.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,

materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuantLS	COMP 700-050-05
	Construction	Refer to Comp Book	
Documentation	**Design**	Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **683-ABB-** **SYSTEM COMMUNICATIONS** **LS/LS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

BB= Item As Described
01 (FDM)
02 (TDM)
03 (TDM Hardware)
04 (TDM Radio)
05 (TDM Coaxial)
06 (Central Site Radio)
07 (System Communications Modems)
08 (Voice Equipment)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0683107	SYSTEM COMMUNICATIONS, F&I, COMMUNICATIONS MODEMS	LS	T	1/1/2007		$487.97

684- AB- SYSTEM COMMUNICATIONS CARRIER

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of

payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **684- AB-** **SYSTEM COMMUNICATIONS CARRIER** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Item As Described
1 (Multi-Pair Cable)
2 (Coaxial Cable)
3 (Lead Jacketed Coaxial Cable)
4 (Fiber Optic Cable)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0684 11	SYSTEM COMMUNICATIONS CARRIER, F&I, MULTI-PAIR CABLE	LF	T	1/1/2007		$5.59
0684 12	SYSTEM COMMUNICATIONS CARRIER, F&I, COAXIAL CABLE	LF	T	1/1/2007		$8.13
0684 14	SYSTEM COMMUNICATIONS CARRIER, F&I, FIBER OPTIC CABLE	LF	T	1/1/2007		$4.10
0684 34	SYSTEM COMMUNICATIONS CARRIER, INSTALL, FIBER OPTIC CABLE	LF	T	1/1/2007		$18.50

685-ABB- SYSTEM AUXILIARIES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
NOT TO BE USED FOR ITS Projects. Refer to 780 items.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **685-ABB-** **SYSTEM AUXILIARIES** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Item As Described
01 (RF Modulator)
02 (Multi-Plex Field Transceiver, Wire)
03 (Multi-Plex Field Transceiver, Radio)
04 (Data Accumulator)
05 (Master Clock Unit)
06 (Uninterruptible Power Source)
07 (Test Equipment)
08 (Equipment Cabinet, Type A)
09 (Equipment Cabinet, Type B)
10 (Equipment Cabinet, Type C)
11 (Equipment Cabinet, Type D)
12 (Bridge Continuity Sensor)
13 (Pier Vibration Detection System-Sensors)
14 (Pier Vibration Detection System-Monitor/Controller)
15 (Weather Instrumentation)
16 (Remote Site-Radio)
17 (Citizen Band-Radio)
18 (Telemetry Transmitter)
19 (Telemetry Receiver)
20 (Telemetry Transceiver)
21 (Pre-Timed Controller Adapter)
22 (2-Phase Or Full Actuated Adapter)
23 (3/Phase Thru 8-Phase Full Actuated Adapter)
24 (Universal Adapter)
25 (Standby System Relay)
26 (Standby System Timer)

27 (Telephone Connection Box)
28 (Interface Panel)
29 (Pneumatic Transport Tube Assembly)
30 (Weigh In Motion Scale Assembly)
31 (Static Scale Assembly)
32 (Public Address System Assembly)
33 (RF Demodulator)
34 (Dimensional Measurement Assembly)
36 (Low Band Vhf Radio)
37 (Line Amplifier)
38 (CCTV Camera Assembly)
39 (Fiber Optic Video Amplifier, Transmitter & Receiver)
40 (Fiber Optic, Modulator/Demodulator)
41 (Fiber Optic, Multiplexor/Demultiplexor)
42 (Video Central Control Equipment)
43 (Video Monitors)
44 (Video System Support Equipment)
55 (PLP FSK Card)
56 (FSK Modem, Interface Panel Wall)
57 (FSK Modem, Multiplexor Interface Panel)
58 (FSK Modem, Interface Panel Rack)
60 (Microwave Radar Detection Unit Assembly)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0685106	SYSTEM AUXILIARIES, F&I, UNINTERRUPTIBLE POWER SOURCE	EA	T	1/1/2007		$2,872.69
0685107	SYSTEM AUXILIARIES, F&I, TEST EQUIPMENT	EA	T	1/1/2007		$4,203.50
0685110	SYSTEM AUXILIARIES, F&I, EQUIPMENT CABINET, TYPE C	EA	T	1/1/2007		$34,641.71
0685116	SYSTEM AUXILIARIES, F&I, REMOTE SITE-RADIO	EA	T	8/1/2008	12/31/2008	$43,373.00
0685118	SYSTEM AUXILIARIES, F&I, TELEMETRY TRANSCEIVER	EA	T	1/1/2007		$4,309.17
0685120	SYSTEM AUXILIARIES, F&I, TELEMETRY TRANSCEIVER	EA	T	1/1/2007		$1,724.62
0685124	SYSTEM AUXILIARIES, F&I, UNIVERSAL ADAPTER	EA	T	1/1/2007		$1,001.10
0685127	SYSTEM AUXILIARIES, FURNISH & INSTALL TELEPHONE CONNECTION BOX	EA	T	1/1/2007		$478.42
0685128	SYSTEM AUXILIARIES, FURNISH & INSTALL, INTERFACE PANEL	EA	T	1/1/2007		$1,185.51
0685138	SYSTEM AUXILIARIES, FURNISH & INSTALL, CCTV CAMERA ASSEMBLY	EA	T	1/1/2007		$5,779.00
0685139	SYSTEM AUXILIARIES, F&I, FIBER OPTIC VIDEO AMPLIFIER, TRANSMITTER & RECEIVER	EA	T	1/1/2007		$4,840.34

0685140	SYSTEM AUXILIARIES, FURNISH & INSTALL FIBER OPTIC-MODULATOR/DEMODULATOR	EA	T	1/1/2007	$898.20
0685141	SYSTEM AUXILIARIES, FIBER OPTIC-MULTIPLEXOR/DEMULTIPLEXOR	EA	T	1/1/2007	$5,671.75
0685142	SYSTEM AUXILIARIES, F&I, VIDEO CENTRAL CONTROL EQUIPMENT	EA	T	1/1/2007	$149,680.36
0685143	SYSTEM AUXILIARIES, F&I, VIDEO MONITORS	EA	T	1/1/2007	$958.77
0685144	SYSTEM AUXILIARIES, F&I, VIDEO SYSTEM SUPPORT EQUIPMENT	EA	T	1/1/2007	$79,121.12
0685158	SYSTEM AUXILIARIES, F&I, FSK MODEM INTERFACE PANEL RACK	EA	T	1/1/2007	$5,000.00
0685160	SYSTEM AUXILIARIES, F&I, MICROWAVE RADAR DETECTION UNIT ASSEMBLY	EA	T	1/1/2007	$1,234.95
0685206	SYSTEM AUXILIARIES, FURNISH, UNINTERRUPTIBLE POWER SOURCE	EA	T	1/1/2007	$2,000.00
0685320	SYSTEM AUXILIARIES, INSTALL, TELEMETRY TRANSCEIVER	EA	T	1/1/2007	$800.00
0685324	SYSTEM AUXILIARIES, INSTALL, UNIVERSAL ADAPTER	EA	T	1/1/2007	$500.00
0685327	SYSTEM AUXILIARIES, INSTALL, TELEPHONE CONNECTION BOX	EA	T	1/1/2007	$123.01
0685338	SYSTEM AUXILARIES, INSTALL, CCTV CAMERA ASSEMBLY	EA	T	1/1/2007	$1,000.00
0685360	SYSTEM AUXILIARIES, INSTALL, MICROWAVE RADAR DETECTION UNIT ASSEMBLY	EA	T	1/1/2007	$2,096.91

686-ABB- CLOSED CIRCUIT TELEVISION EQUIPMENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item is for traffic signals and traffic control devices only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **686-ABB-** **CLOSED CIRCUIT TELEVISION EQUIPMENT** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

BB = Item As Described
01 (Camera Assembly)
02 (Monitor)
03 (Recorder)
04 (Central Controls)
05 (Camera Support)
C 06 (Cable Plant)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0686101	CLOSED CIRCUIT TV EQUIPMENT, F&I, CAMERA ASSEMBLY	EA	T	1/1/2007		$7,675.00
0686102	CLOSED CIRCUIT TV EQUIPMENT, F&I, MONITOR	EA	T	1/1/2007		$1,500.00
0686103	CLOSED CIRCUIT TV EQUIPMENT, F&I, RECORDER	EA	T	1/1/2007		$1,000.00
0686104	CLOSED CIRCUIT TV EQUIPMENT, F&I, CENTRAL CONTROLS	EA	T	1/1/2007		$12,000.00
0686105	CLOSED CIRCUIT TV EQUIPMENT, F&I, CAMERA SUPPORT	EA	T	1/1/2007		$329.00
0686301	CLOSED CIRCUIT TV EQUIPMENT, INSTALL, CAMERA ASSEMBLY	EA	T	1/1/2007		$2,139.22
0686302	CLOSED CIRCUIT TV EQUIP, INS, MONITOR	EA	T	1/1/2007		$0.00
0686305	CLOSED CIRCUIT TV EQUIPMENT, INSTALL, CAMERA SUPPORT	EA	T	1/1/2007		$1,500.00

690- 10- TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 10-** **TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0690 10	SIGNAL HEAD TRAFFIC ASSEMBLY REMOVAL	EA		1/1/2007		$51.42

690- 20- SIGNAL PEDESTRIAN ASSEMBLY, REMOVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 20-** **SIGNAL PEDESTRIAN ASSEMBLY, REMOVE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0690 20	SIGNAL PEDESTRIAN ASSEMBLY REMOVAL	EA		1/1/2007		$47.72

690- 31- SIGNAL PEDESTAL- REMOVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 31-** **SIGNAL PEDESTAL- REMOVE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0690 31	SIGNAL PEDESTAL REMOVAL	EA		1/1/2007		$181.17

690- 32- A POLE REMOVAL- SHALLOW

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
Separate items exist for "shallow" and "deep" pole removal.
Shallow: includes complete removal of the above ground portion of the pole, attachments, and removal of the pole foundation , including buried attachments to a depth of 4 feet (1.2 m) below existing grade, measured per each.
Deep: includes complete removal of the above ground portion of the pole and attachments, and the complete removal of the pole foundation, measured per foot (meter) from the existing grade to the deepest portion of the pole foundation actually removed. Estimate 20 ft (6 meters) per deep pole removal.
NOTE ALL: Plans should identify locations for pole removal, and type of pole to be removed at each location. Not to be used on poles for highway lighting, unless they are jointly used to support traffic signal mast arms or span wire assemblies.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form

(comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 32- A** **POLE REMOVAL- SHALLOW** **EA**

A =
1 (Direct Burial)
2 (Bolt on Attachment)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0690 32 1	POLE REMOVAL, SHALLOW, DIRECT BURIAL	EA		1/1/2007		$639.67
0690 32 2	POLE REMOVAL, SHALLOW, BOLT ON ATTACHMENT	EA		1/1/2007		$1,576.83

690- 33- A POLE REMOVAL- DEEP

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
Separate items exist for "shallow" and "deep" pole removal.
Shallow: includes complete removal of the above ground portion of the pole, attachments, and removal of the pole foundation , including buried attachments to a depth of 4 feet (1.2 m) below existing grade, measured per each.
Deep: includes complete removal of the above ground portion of the pole and attachments, and the complete removal of the pole foundation, measured per foot (meter) from the existing grade to the deepest portion of the pole foundation actually removed. Estimate 20 ft (6 meters) per deep pole removal.
NOTE ALL: Plans should identify locations for pole removal, and type of pole to be removed at each location. Not to be used on poles for highway lighting, unless they are jointly used to support traffic signal mast arms or span wire assemblies.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 33- A** **POLE REMOVAL- DEEP** **LF**

A =
1 (Direct Burial)
2 (Bolt on Attachment)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0690 33 1	POLE REMOVAL, DEEP DIRECT BURIAL	LF		1/1/2007		$163.80
0690 33 2	POLE REMOVAL, DEEP, BOLT ON ATTACHMENT	LF		1/1/2007		$126.03

690- 50- A CONTROLLER ASSEMBLY- REMOVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 50- A** **CONTROLLER ASSEMBLY- REMOVE** **EA**

A =
'Blank' = Complete Assembly
1 (Cabinet Assembly, Less Foundation)
2 (Controller Unit)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0690 50	CONTROLLER ASSEMBLY, REMOVE, COMPLETE ASSEMBLY	EA		1/1/2007		$362.21
0690 50 1	CONTROLLER ASSEMBLY, REMOVE, CAB ASSEMBLY, LESS FOUNDATION	EA		1/1/2007		$306.99
0690 50 2	CONTROLLER ASSEMBLY, REMOVE, CONTROLLER UNIT	EA		1/1/2007		$131.03

690- 60- DETECTOR VEHICLE ASSEMBLY, REMOVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 60-** **DETECTOR VEHICLE ASSEMBLY, REMOVE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0690 60	DETECTOR VEHICLE ASSEMBLY REMOVE	EA		1/1/2007		$32.26

690- 70- DETECTOR PEDESTRIAN ASSEMBLY, REMOVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form

(comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 70-** **DETECTOR PEDESTRIAN ASSEMBLY, REMOVE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0690 70	DETECTOR PEDESTRIAN ASSEMBLY REMOVE	EA		1/1/2007		$37.46

690- 80- SPAN WIRE ASSEMBLY REMOVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 80-** **SPAN WIRE ASSEMBLY REMOVE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0690 80	SPAN WIRE ASSEMBLY, REMOVE	EA		1/1/2007		$0.00

690- 90- REMOVE CONDUIT & CABLING

Unit PI **Accuracy** Per Intersection **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 90-** **REMOVE CONDUIT & CABLING** **PI**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0690 90	CONDUIT & CABLING REMOVE	PI		1/1/2007		$558.71

690- 91- SIGNAL INTERCONNECT CABLE, REMOVE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690- 91-** **SIGNAL INTERCONNECT CABLE, REMOVE** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0690 91	SIGNAL INTERCONNECT CABLE REMOVE	LF		1/1/2007		$0.85

690-100- SIGNAL EQUIPMENT, MISCELLANEOUS REMOVE

Unit PI **Accuracy** Per Intersection **PlanQuantity?** no

Notes

Details This pay item is for traffic signals and traffic control devices only.
Detail items to be removed in plans, by intersection.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **690-100-** **SIGNAL EQUIPMENT, MISCELLANEOUS REMOVE** **PI**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0690100	SIGNAL EQUIPMENT MISCELLANOUS REMOVE	PI		1/1/2007		$939.14

699- 1- AB INTERNALLY ILLUMINATED SIGN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This item should be used when requested by maintaining agency.

The internally illuminated street name sign is normally attached to the signals mast arm or span wire. This item should be shown on the signals plans and loaded in the signals category.

Related Items **Required** **Recommended**

Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 17748	
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **699- 1- AB** **INTERNALLY ILLUMINATED SIGN** **EA**

A=Operation
blank (Furnish & Install)
1 (Furnish)
2 (Install)
3 (Modify)

B = Sign type
1(Street Name)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0699 1 1	INTERNAL ILLUM SIGN, ST NAME	EA		1/1/2007		$2,849.51
0699 1 11	INTERNAL ILLUM SIGN, FURNISH, ST NAME	EA		1/1/2007		$2,561.67
0699 1 21	INTERNAL ILLUM SIGN, INSTALL, ST NAME	EA		1/1/2007		$902.33
0699 1 31	INTERNAL ILLUM SIGN, MODIFY, ST NAME	EA		1/1/2007		$200.00
0699 1 41	INTERNAL ILLUM SIGN, RELOCATE, ST NAME	EA		1/1/2007		$300.00

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BOE

Basis of Estimates

Chapter 17

Items 700 to 799

State Specifications and Estimates Office
Estimating Systems Support Section

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700- 20- AB	SINGLE POST SIGN		
	Unit AS	**Accuracy** Assembly	**PlanQuantity?** no

Notes **Effective July 2007 letting; replaces 700-40-A.**

Details

Includes sign panel, post, any foundation or breakaway base as required by the Design Standards or plans. Per specifications, "for the purpose of payment, a sign assembly consists of all the signs mounted on a single structure (one, two, or three posts, or overhead structure)…"

Back-to-Back and/or multiple signs on a single post: Select the sign panel size (B= 1, 2, 3) based on the combined total sign area.

Standards limit single post sign area (wind resistance area from any one direction) to 20 SF.

B=9 Custom: For signs with a wind resistance area/ maximum projected area from any one direction greater than 20 SF, multi-post signs are recommended. If project conditions require a single post sign greater than 20sf, a custom (non-standard) sign may be used. Plan details will be needed. Verify with Roadway Design Office prior to opening/using pay item on a project.

Refer to design standards for single/multi-post requirements.

INSTALL: Install includes the installation of existing panel(s) on a new sign post.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 20- AB** **SINGLE POST SIGN** **AS**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate) B=0
6 (Remove) B=0

B= Sign Panel Size, Square feet
1 (less than 12)
2 (12-20)
3 (20+ back-to back)
9 (Custom)*

Notes See Details for selecting B= Sign Panel Size.
*B=9 (Custom) for non-standard designs. Plan details will be necessary. Verify with Roadway Design Office prior to opening/using on a project.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0700 20 11	SINGLE POST SIGN, F&I, LESS THAN 12 SF	AS		7/1/2007		$289.91
0700 20 12	SINGLE POST SIGN, F&I, 12-20 SF	AS		7/1/2007		$852.84
0700 20 13	SINGLE POST SIGN, F&I, 20 + BACK TO BACK SF	AS		7/1/2007		$1,266.78
0700 20 19	SINGLE POST SIGN, F&I, NON - STANDARD	AS	T	7/1/2007		$1,567.79
0700 20 31	SINGLE POST SIGN, INSTALL, LESS THAN 12 SF	AS		7/1/2007		$161.32
0700 20 32	SINGLE POST SIGN, INSTALL, 12-20 SF	AS		7/1/2007		$250.00
0700 20 40	SINGLE POST SIGN, RELOCATE	AS		7/1/2007		$146.62
0700 20 60	SINGLE POST SIGN, REMOVE	AS		7/1/2007		$31.55

700- 21- AB MULTI-POST SIGN

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes **Effective July 2007 letting; replaces 700-41-AA.**

Details Includes sign panel, post, any foundation or breakaway base as required by the Design Standards or plans. The number and size of post and the average post length must be shown in the plans. Per specifications, "for the purpose of payment, a sign assembly consists of all the signs mounted on a single structure (one, two, or three posts, or overhead structure)…"

INSTALL: Install includes the installation of existing panel(s) on new sign posts.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 21- AB** **MULTI-POST SIGN** **AS**

A= Operation
1 (Furnish & Install)

2 (Furnish)
3 (Install)
4 (Relocate) B=0
6 (Remove) B=0

B = Sign Panel Size, square feet
1 (50 or less)
2 (51 to 100)
3 (101 to 150)
4 (151 to 200)
5 (201 to 250)
6 (251 to 300)
7 (over 300)
9 (Custom) non-standard sign

Notes *B=9 (Custom) for non-standard designs. Verify with Roadway Design Office prior to opening.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0700 21 11	MULTI- POST SIGN, F&I, 50 SF OR LESS	AS		7/1/2007		$3,516.62
0700 21 12	MULTI- POST SIGN, F&I, 51 - 100 SF	AS		7/1/2007		$5,487.20
0700 21 13	MULTI- POST SIGN, F&I, 101 - 150 SF	AS		7/1/2007		$7,967.55
0700 21 14	MULTI- POST SIGN, F&I, 151 - 200 SF	AS		7/1/2007		$9,670.12
0700 21 15	MULTI- POST SIGN, F&I, 201 - 250 SF	AS		7/1/2007		$14,958.90
0700 21 16	MULTI- POST SIGN, F&I, 251 - 300 SF	AS		7/1/2007		$12,062.50
0700 21 17	MULTI- POST SIGN, F&I, GREATER THAN 300 SF	AS		7/1/2007		$17,880.81
0700 21 31	MULTI- POST SIGN, INSTALL, 50 SF OR LESS	AS		7/1/2007		$2,273.82
0700 21 32	MULTI- POST SIGN, INSTALL, 51 - 100 SF	AS		7/1/2007		$3,000.00
0700 21 33	MULTI- POST SIGN, INSTALL, 101 - 150	AS		7/1/2007		$3,571.29
0700 21 34	MULTI- POST SIGN, INSTALL, 151 - 200 SF	AS		7/1/2007		$2,000.00
0700 21 35	MULTI- POST SIGN, INSTALL, 201 - 250 SF	AS		7/1/2007		$4,000.00
0700 21 36	MULTI- POST SIGN, INSTALL, 251 - 300 SF	AS		7/1/2007		$10,300.00
0700 21 40	MULTI- POST SIGN, RELOCATE	AS		7/1/2007		$2,435.45
0700 21 60	MULTI- POST SIGN, REMOVE	AS		7/1/2007		$605.91

700- 22-ABC OVERHEAD TRUSS SPAN SIGN

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes **Effective January 2008 letting; replaces selected 700-42 to 700-46 items**

Details FOR ITS APPLICATIONS, USE 780 items
****

Includes sign panels, overhead structure, foundations and other incidentals required for a complete assembly. Complete design and details of the structure and foundation must be shown in the plans. Includes all components listed in the Standards and all external conduit and conductors for the service.

All signs are to be lighted, unless otherwise noted in the plans. Payment is included in assembly.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		***Selected Items may require Tech Spec and/or Plan Detail**	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 22-ABC** **OVERHEAD TRUSS SPAN SIGN** **AS**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
6 (Remove) BC=00

B= Truss Span Length (feet)
1 (50 or less)
2 (51-100)
3 (101-150)
4 (151-200)
5 (Greater than 200)

C= Sign Panel Size (square feet)
1 (300 or less)
2 (301-500)
3 (501-700)
4 (Greater than 700)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0700 22111	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 50 OR LESS, SIGN AREA 300 OR LESS SF	AS		1/1/2008		$100,000.00
0700 22121	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 51-100', SIGN AREA 300 OR LESS SF	AS		1/1/2008		$100,000.00
0700 22122	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 51-100', SIGN AREA 301-500 SF	AS		1/1/2008		$100,000.00
0700 22123	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 51-100', SIGN AREA 501-700 SF	AS		1/1/2008		$100,000.00
0700 22124	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 51-100', SIGN AREA >700 SF	AS		1/1/2008		$100,000.00
0700 22131	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 101-150', SIGN AREA 300 OR LESS SF	AS		1/1/2008		$158,913.59
0700 22132	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 101-150', SIGN AREA 301-500 SF	AS		1/1/2008		$144,513.78
0700 22133	OVERHEAD TRUSS SPAN SIGN,FURNISH & INSTALL, TRUSS LENGTH 101-150', SIGN AREA 501-700SF	AS		1/1/2008		$100,000.00
0700 22134	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 101-150', SIGN AREA >700 SF	AS		1/1/2008		$100,000.00
0700 22141	OVERHEAD TRUSS SPAN SIGN,FURNISH & INSTALL, TRUSS LENGTH 151-200', SIGN AREA 300 OR LESS SF	AS		1/1/2008		$100,000.00
0700 22142	OVERHEAD TRUSS SPAN SIGN,FURNISH & INSTALL, TRUSS LENGTH 151-200', SIGN AREA 301-500SF	AS		1/1/2008		$211,280.55
0700 22143	OVERHEAD TRUSS SPAN SIGN,FURNISH & INSTALL, TRUSS LENGTH 151-200', SIGN AREA 501-700SF	AS		1/1/2008		$100,000.00
0700 22144	OVERHEAD TRUSS SPAN SIGN, FURNISH & INSTALL, TRUSS LENGTH 151-200', SIGN AREA >700 SF	AS		1/1/2008		$228,623.73
0700 22151	OVERHEAD TRUSS SPAN SIGN,FURNISH & INSTALL, TRUSS LENGTH >200', SIGN AREA 300 OR LESS	AS		1/1/2008		$100,000.00
0700 22152	OVERHEAD TRUSS SPAN SIGN,FURNISH & INSTALL, TRUSS LENGTH >200', SIGN AREA 301-500	AS		1/1/2008		$283,376.99

0700 22153	OVERHEAD TRUSS SPAN SIGN,FURNISH & INSTALL, TRUSS LENGTH >200', SIGN AREA 501-700SF	AS	1/1/2008	$100,000.00
0700 22400	OVERHEAD TRUSS SPAN SIGN, RELOCATE	AS	1/1/2008	$50,000.00
0700 22500	OVERHEAD TRUSS SPAN SIGN, REPAIR	AS	1/1/2008	$33,943.92
0700 22600	OVERHEAD TRUSS SPAN SIGN,REMOVE	AS	1/1/2008	$4,495.14

700- 23-ABC OVERHEAD TRUSS CANTILEVER SIGN

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes **Effective January 2008 letting; replaces selected 700-42 to 700-46 items**

Details FOR ITS APPLICATIONS, USE 780 items
****

Includes sign panels, overhead structure, foundations and other incidentals required for a complete assembly. Complete design and details of the structure and foundation must be shown in the plans. Includes all components listed in the Standards and all external conduit and conductors for the service.

All signs are to be lighted, unless otherise noted in the plans. Payment is included in assembly.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

***Selected Items may require Tech Spec and/or Plan Detail**

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 23-ABC** **OVERHEAD TRUSS CANTILEVER SIGN** **AS**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
6 (Remove) BC=00

B= Truss Span Length (feet)
1 (30 or less)
2 (31-40)
3 (41-50)
4 (over 50)

C= Sign Panel Size (square feet)
1 (100 or less)
2 (101-200)
3 (201-300)
4 (Greater than 300)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0700 23111	OVERHEAD TRUSS CANTILEVER SIGN,F&I,T 30 OR <,S 100 OR <	AS		1/1/2008		$22,014.21
0700 23112	OVERHEAD TRUSS CANTILEVER SIGN,F&I,T 30 OR <,S 101-200	AS		1/1/2008		$43,679.78
0700 23113	OVERHEAD TRUSS CANTILEVER SIGN,F&I,T 30 OR <,S 201-300	AS		1/1/2008		$71,443.86
0700 23114	OVERHEAD TRUSS CANTILEVER SIGN,F&I,T 30 OR <,S > 300	AS		1/1/2008		$30,000.00
0700 23121	OVERHEAD TRUSS CANTILEVER SIGN,F&I, T 31-40, S 100 OR LESS	AS		1/1/2008		$51,586.41
0700 23122	OVERHEAD TRUSS CANTILEVER SIGN,F&I, T 31-40, S 101-200	AS		1/1/2008		$62,964.34
0700 23123	OVERHEAD TRUSS CANTILEVER SIGN, FURNISH & INSTALL, T 31-40, S 201-300	AS		1/1/2008		$68,572.18
0700 23124	OVERHEAD TRUSS CANTILEVER SIGN, FURNISH & INSTALL, T 31-40, S GREATER THAN 300	AS		1/1/2008		$60,000.00
0700 23131	OVERHEAD TRUSS CANTILEVER SIGN,F&I, T 41-50, S 100 OR <	AS		1/1/2008		$66,297.60
0700 23132	OVERHEAD TRUSS CANTILEVER SIGN,F&I, T 41-50, S 101-200	AS		1/1/2008		$69,987.46
0700 23133	OVERHEAD TRUSS CANTILEVER SIGN,F&I, T 41-50, S 201-300	AS		1/1/2008		$59,106.52
0700 23134	OVERHEAD TRUSS CANTILEVER SIGN, FURNISH & INSTALL TRUSS LENGTH 41-50, SIGN AREA >300	AS		1/1/2008		$67,050.00
0700 23141	OVERHEAD TRUSS CANTILEVER SIGN,FURNISH & INSTALL TRUSS LENGTH > 50, SIGN AREA 100 OR LESS	AS		1/1/2008		$50,000.00
0700 23142	OVERHEAD TRUSS CANTILEVER SIGN,FURNISH & INSTALL TRUSS LENGTH > 50, SIGN AREA 101-200 SF	AS		1/1/2008		$80,022.70
0700 23143	OVERHEAD TRUSS CANTILEVER SIGN,FURNISH & INSTALL TRUSS LENGTH > 50, SIGN AREA 201-300 SF	AS		1/1/2008		$86,332.66

0700 23144	OVERHEAD TRUSS CANTILEVER SIGN,FURNISH & INSTALL TRUSS LENGTH > 50, SIGN AREA >300 SF	AS	1/1/2008	$75,000.00
0700 23199	OVERHEAD TRUSS CANTILEVER SIGN,FURNISH & INSTALL CUSTOM	AS	1/1/2008	$115,000.00
0700 23300	OVERHEAD TRUSS CANTILEVER SIGN, INSTALL	AS	1/1/2008	$50,000.00
0700 23400	OVERHEAD TRUSS CANTILEVER SIGN, RELOCATE	AS	1/1/2008	$14,308.00
0700 23600	OVERHEAD TRUSS CANTILEVER SIGN, REMOVE	AS	1/1/2008	$3,337.90

700- 38-AAB SIGN LIGHTED OVERHEAD TRUSS (MONOTUBE)

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes **Standards valid through 12-31-06**

Details Includes sign panel, post, any foundation or breakaway base as required by the plans. Also includes sign luminaries, electrical enclosure and other incidentals required for a complete assembly. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item.

For projects let January 2008 and later: Ensure that complete drawings and specifications are available with the contract documents. Contact the maintaining agency prior to design; some agencies have requested standard sign structures be used, rather than monotubes.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 38-AAB** **SIGN LIGHTED OVERHEAD TRUSS (MONOTUBE)** **AS**

AA = Length Of Sign Truss
01 (20 Or Less)
02 (21 - 40)
03 (41 - 60)
04 (61 - 80)
05 (81 - 100)
06 (101 - 120)
07 (121 - 140)
08 (141 - 160)

09 (161 - 180)
10 (181 - 200)
11 (201 - 220)

B = Square Footage Of Sign Panel
1 (100 Or Less)
2 (101 to 200)
3 (201 to 300)
4 (301 to 400)
5 (401 to 500)
6 (501 to 600)
7 (601 to 700)
8 (Over 700)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0700 38034	SIGN LT'D OVHD TRUSS-MONOTUBE, T 41-60,S301-400	AS		1/1/2007		$150,000.00
0700 38043	SIGN LT'D OVHD TRUSS-MONOTUBE, T 61-80,S201-300	AS		1/1/2007		$140,002.93
0700 38045	SIGN LT'D OVHD TRUSS-MONOTUBE, T 61-80,S401-500	AS		1/1/2007		$150,000.00
0700 38048	SIGN LT'D OVHD TRUSS-MONOTUBE, T 61-80,S >700	AS		7/1/2010	7/31/2010	$150,000.00
0700 38049	SIGN LT'D OVHD TRUSS-MONOTUBE, T 61-80,SIGN - SPECIAL	AS		1/1/2007	1/2/2007	$150,000.00
0700 38054	SIGN LT'D OVHD TRUSS-MONOTUBE, T 81-100,S301-400	AS		1/1/2007		$199,030.82
0700 38055	SIGN LT'D OVHD TRUSS-MONOTUBE, T 81-100,S401-500	AS		1/1/2007		$150,000.00
0700 38056	SIGN LT'D OVHD TRUSS-MONOTUBE, T 81-100,S 501-600	AS		1/1/2007		$150,000.00
0700 38057	SIGN LT'D OVHD TRUSS-MONOTUBE, T 81-100,S 601-700	AS		1/1/2007		$150,000.00
0700 38058	SIGN LT'D OVHD TRUSS-MONOTUBE, T 81-100,S OVER 700	AS		1/1/2007		$150,000.00
0700 38063	SIGN LT'D OVHD TRUSS-MONOTUBE, T 101-120, S 201-300	AS		1/1/2007		$150,000.00
0700 38064	SIGN LT'D OVHD TRUSS-MONOTUBE, T 101-120, S301-400	AS		1/1/2007		$150,000.00
0700 38066	SIGN LT'D OVHD TRUSS-MONOTUBE, T 101-120,S501-600	AS		1/1/2007		$150,000.00
0700 38067	SIGN LT'D OVHD TRUSS-MONOTUBE, T 101-120, S601-700	AS		1/1/2007		$150,000.00
0700 38068	SIGN LT'D OVHD TRUSS-MONOTUBE, T 101-120,S >700	AS		1/1/2007		$150,000.00
0700 38094	SIGN LT'D OVHD TRUSS-MONOTUBE, T 161-180, S301-400	AS		1/1/2007		$150,000.00

700- 39- AB SIGN LIGHTED OVERHEAD CANTILEVER- MONOTUBE

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes **Standards valid through 12-31-06**

Details Includes sign panel, post, any foundation or breakaway base as required by the plans. Also includes sign luminaries, electrical enclosure and other incidentals required for a complete assembly. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item.

For projects let January 2008 and later: Ensure that complete drawings and specifications are available with the contract documents. Contact the maintaining agency prior to design; some agencies have requested standard sign structures be used, rather than monotubes.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 39- AB** **SIGN LIGHTED OVERHEAD CANTILEVER- MONOTUBE AS**

A = Length Of Cantilever
1 (20 Or Less)
2 (21 - 30)
3 (31 - 40)
4 (41 - 50)
5 (51 - 60)
6 (61 - 70)
7 (71 - 80)
8 (81 - 90)

B = Square Footage Of Sign Panel
1 (50 Or Less)
2 (51 to 100)
3 (101 to 150)
4 (151 to 200)
5 (201 - 250)
6 (251 - 300)
7 (Over 300)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0700 39 22	SIGN LT'D OVHD CTLVR-MONOTUBE, C 21- 30, S 51-100	AS		1/1/2007		$150,000.00
0700 39 33	SIGN LT'D OVHD CTLVR-MONOTUBE, C 31- 40, S101-150	AS		1/1/2007		$150,000.00
0700 39 34	SIGN LT'D OVHD CTLVR-MONOTUBE, C 31- 40, S151-200	AS		1/1/2007		$150,000.00
0700 39 35	SIGN LT'D OVHD CTLVR-MONOTUBE, C 31- 40, S201-250	AS		1/1/2007		$150,000.00
0700 39 36	SIGN LT'D OVHD CTLVR-MONOTUBE, C 31- 40, S251-300	AS		1/1/2007		$150,000.00
0700 39 37	SIGN LT'D OVHD CTLVR-MONOTUBE, C 31- 40, S OVER 300	AS		1/1/2007		$150,000.00
0700 39 44	SIGN LT'D OVHD CTLVR-MONOTUBE, C 41- 50, S151-200	AS		1/1/2007		$150,000.00
0700 39 47	SIGN LT'D OVHD CTLVR-MONOTUBE, C 41- 50, OVER 300	AS		1/1/2007		$110,355.22

700- 46- AB EXISTING SIGN

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes **Selected Items blocked; B=1 & 2 valid through 6-30-07; B=3 & 4 valid through 12-31-07. Replaced by 700-20 to 700-23 items**

Details The REMOVE item includes the removal of the sign panels and the complete support assembly.
The RELOCATE item includes the reinstallation of the complete assembly at the location shown in the plans.
The INSTALL item includes the installation of the assembly, at the location shown in the plans. Includes the breakaway base and foundation, if required for installation of the new assembly. For a multi-post assembly, the number and size of the post and the average post length must be shown in the plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 46- AB** **EXISTING SIGN** **AS**

A = Operation
1 (Remove)

2 (Relocate)
3 (Install)

B = Sign Assembly Type
1 (Single Post) valid through 6/07
2 (Multi-Post) valid through 6/07
3 (Overhead Truss) valid through 12/07
4 (Overhead Cantilever) valid through 12/07
5 (Span Wire)
6 (Bridge Mounted)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0700 46 15	SIGN EXISTING- REMOVE, SPAN WIRE	AS		1/1/2007		$341.80
0700 46 16	SIGN EXISTING- REMOVE, BRIDGE MOUNTED	AS		1/1/2007		$164.84
0700 46 25	SIGN EXISTING- RELOCATE, SPAN WIRE	AS		1/1/2007		$271.45
0700 46 26	SIGN EXISTING- RELOCATE, BRIDGE MOUNTED	AS		1/1/2007		$5,863.78

700- 48- AB SIGN PANEL

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This item is for the sign panel only. For posts, structures, etc, refer to other Section 700 items.
The FURNISH AND INSTALL item includes the sign panel and materials required for installation. The INSTALL item includes the materials required for installation. The sign panel will be furnished. The OVERLAY item includes the sign panel and the materials required for installation. The RELOCATE item includes the removal of the sign panel and the reinstallation at the location noted in the plans. The REPLACE item includes the new sign panel, the removal of the existing panel and the installation of the new panel. The REMOVE item includes the removal of the existing sign panel.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 48- AB** **SIGN PANEL** **EA**

A = Operation
1 (Furnish & Install)
2 (Install)
3 (Overlay)
4 (Relocate)
5 (Replace)
6 (Remove) B=0
7 (Furnish Only)

B = Square Footage Of Sign Panel
2 (101 to 200)
3 (201 to 300)
4 (301 to 400)
5 (401 to 500)
6 (501 to 600)
7 (601 or greater)
8 (15 Or Less)
9 (16 to 100)
0 (N/A)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0700 48 12	SIGN PANELS, F & I, 101 - 200	EA		1/1/2007		$4,803.30
0700 48 13	SIGN PANELS, F&I, 201 - 300	EA		1/1/2007		$6,420.10
0700 48 14	SIGN PANELS, F&I, 301 - 400	EA		1/1/2007		$8,000.00
0700 48 15	SIGN PANELS, F&I, 401 - 500	EA		1/1/2007		$14,394.20
0700 48 16	SIGN PANELS, F&I, 501 - 600	EA		1/1/2007		$15,000.00
0700 48 17	SIGN PANELS, F&I, 601 - 700	EA		1/1/2007		$16,750.00
0700 48 18	SIGN PANELS, F & I, 15 OR <	EA		1/1/2007		$257.10
0700 48 19	SIGN PANELS, F & I, 16 - 100	EA		1/1/2007		$1,367.92
0700 48 22	SIGN PANELS, INSTALL, 101 - 200	EA		1/1/2007		$4,836.67
0700 48 28	SIGN PANELS, INSTALL, 15 OR LESS	EA		1/1/2007		$111.34
0700 48 29	SIGN PANELS, INSTALL, 16 - 100	EA		1/1/2007		$733.69
0700 48 32	SIGN PANELS, OVERLAY, 101 - 200	EA		1/1/2007		$2,917.73
0700 48 33	SIGN PANELS, OVERLAY, 201-300	EA		1/1/2007		$3,000.00
0700 48 34	SIGN PANELS, OVERLAY, 301-400	EA		1/1/2007		$5,000.00
0700 48 38	SIGN PANELS, OVERLAY, 15 OR LESS	EA		1/1/2007		$240.50
0700 48 39	SIGN PANELS, OVERLAY, 16 - 100	EA		1/1/2007		$1,050.00
0700 48 42	SIGN PANELS, RELOCATE, 101 - 200	EA		1/1/2007		$143.38
0700 48 43	SIGN PANELS, RELOCATE, 201 - 300	EA		1/1/2007		$1,503.50
0700 48 44	SIGN PANELS, RELOCATE, 301 - 400	EA		1/1/2007		$4,700.00
0700 48 45	SIGN PANELS, RELOCATE, 401 - 500	EA		1/1/2007		$5,395.00
0700 48 47	SIGN PANELS, RELOCATE, 601 - 700	EA		1/1/2007		$7,333.33
0700 48 48	SIGN PANELS RELOCATE, 15 OR <	EA		1/1/2007		$100.07
0700 48 49	SIGN PANELS RELOCATE, 16 - 100	EA		1/1/2007		$237.50
0700 48 52	SIGN PANELS, REPLACE, 101 - 200	EA		1/1/2007		$4,128.00

0700 48 53	SIGN PANELS, REPLACE, 201 - 300	EA	1/1/2007	$5,599.14
0700 48 54	SIGN PANELS, REPLACE, 301 - 400	EA	1/1/2007	$7,482.00
0700 48 55	SIGN PANELS, REPLACE, 401 - 500	EA	1/1/2007	$13,756.00
0700 48 56	SIGN PANELS, REPLACE, 501 - 600	EA	1/1/2007	$11,108.50
0700 48 57	SIGN PANELS, REPLACE, 601 OR >	EA	1/1/2007	$12,062.00
0700 48 58	SIGN PANELS, REPLACE, 15 OR LESS	EA	1/1/2007	$154.82
0700 48 59	SIGN PANELS, REPLACE, 16 - 100	EA	1/1/2007	$1,397.71
0700 48 60	SIGN PANELS, REMOVE	EA	1/1/2007	$55.86

700- 70- SIGN, LIGHTED OVERHEAD- BRIDGE MOUNTED

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details Includes sign panels, overhead structure, sign luminaries, electrical enclosure and other incidentals required for a complete assembly. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item. Complete design and details of the structure and connections to the bridge must be shown in the plans. Includes all components listed in the Standards and all external conduit and conductors for the service.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 70-** **SIGN, LIGHTED OVERHEAD- BRIDGE MOUNTED** **AS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0700 70	SIGN LIGHTED OVERHEAD, BRIDGE MOUNTED	AS		1/1/2007		$12,647.32

700- 82- OVERHEAD SIGN- SPAN WIRE MOUNTED

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details This item includes sign panels, poles, span wire assembly and other incidentals required for a complete assembly. The type and length of the poles and the size of the span wires

must be shown in the plans.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 82-** **OVERHEAD SIGN- SPAN WIRE MOUNTED** **AS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0700 82	OVERHEAD SIGN, SPAN WIRE MOUNTED	AS		1/1/2007		$4,416.67

700- 83- OVERHEAD SIGN- BRIDGE MOUNTED

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details This item includes sign panels, overhead structure, and incidentals required for a complete assembly. Complete design and details of the structure and connections to the bridge must be shown in the plans

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 83-** **OVERHEAD SIGN- BRIDGE MOUNTED** **AS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0700 83	OVERHEAD SIGN, BRIDGE MOUNTED	AS		1/1/2007		$5,583.69

700- 89- AA ELECTRIC POWERED SIGN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

NOTE: not to be used for ITS projects; refer to 780 items for ITS systems
Refer to 699 items for Internally Illuminated signs.
Includes the complete sign assembly, support and any foundation required. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign structure, are not covered by this item. Includes all components listed in the Standards and all external conduit and conductors for the service.

"Special" signs to be approved by Roadway Design. Plan Details and/or Tech Specs required to provide materials, construction, and payment information.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **700- 89- AA** **ELECTRIC POWERED SIGN** **EA**

AA =
2 (Blank-Out)
3 (Changeable Message - Fiber Optics)*
4 (Changeable Message - Light Bulb Matrix)*
5 (Changeable Message - Electromagnetic Disk Matrix)*
6 (Changeable Message -Drum - Type)*
7 (Changeable Message - Vane Matrix)*
8 (Lane Control - Vane Matrix)
9 (Changeable Message - Flap Type)*
10 (Changeable Message - Tricolor)*
11 (Special)**

Notes * Consider ITS (780 items) for changeable message signs
** Special requires Tech Spec and/or Plan details. Do not use "Special" for Radar Display Sign Units;

see item 700-94.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0700 89 2	SIGN, ELECTRIC POWERED, BLANK OUT	EA		1/1/2007		$4,000.00
0700 89 3	ELECTRIC POWERED SIGN, CHANGEABLE MESSAGE, FIBER OPTIC	EA		6/1/2008	12/31/2008	$80,000.00

700- 90- AB SIGN, FLASHING BEACON

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details Includes the complete sign, flashing beacon, flashing beacon controller, support and any foundation required. Conduit, conductors, pull boxes and service point equipment, if required to get power to the sign, are not covered by this item. Includes all components listed in the Standards and all external conduit and conductors for the service.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17344, 17882, 17881

Specifications

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0300 Signing and Pavement Markings

Status

Struct. **700- 90- AB** **SIGN, FLASHING BEACON** **AS**

A = Operation
1 (Furnish & Install)
2 (Relocate)
3 (Remove)

B = Sign Type
1 (Ground Mount)
2 (Overhead Mount)
3 (Bridge Mount)
4 (Span Wire)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0700 90 11	SIGN FLASHING BEACON, F&I GROUND MOUNT	AS		1/1/2007		$3,014.55
0700 90 12	SIGN FLASHING BEACON, F&I, OVERHEAD MOUNT	AS		1/1/2007		$1,801.68
0700 90 13	SIGN FLASHING BEACON, F&I, BRIDGE MOUNT	AS		1/1/2007		$0.00
0700 90 14	SIGN FLASHING BEACON, F&I, SPAN WIRE	AS		1/1/2007		$2,330.00
0700 90 21	SIGN FLASHING BEACON, RELOCATE, GROUND MOUNT	AS		1/1/2007		$1,073.56
0700 90 31	SIGN FLASHING BEACON, REMOVE, GROUND MOUNT	AS		1/1/2007		$215.40
0700 90 32	SIGN FLASHING BEACON, REMOVE, OVERHEAD MOUNT	AS		1/1/2007		$500.00
0700 90 34	SIGN FLASHING BEACON, REMOVE, SPAN WIRE	AS		1/1/2007		$394.48

700- 95- MOTORIST INFORMATION SIGN (BLUE)

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Inactive structure**

Details Maintenance item (?) intended for blue information signs and/or logo program.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status **Inactive Structure**

Struct. **700- 95-** **MOTORIST INFORMATION SIGN (BLUE)** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

701- 1A-BCD AUDIBLE AND VIBRATORY PAVEMENT MARKINGS

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes **Effective with the September 2008 letting; replaces Developmental 906-701 items**

Details

Refer to May 9, 2008 Estimates Bulletin 08-07/Roadway Bulletin 08-05.

For use on "all rural construction projects, excluding limited access facilities". More specifically, "OUTSIDE EDGE line for all 2-lane and multi-lane undivided rural projects" (From FDOT Executive Committee Policy, approved March 19, 2008)

CENTERLINE: Audible and Vibratory pavement markings should be used on centerline of two lane rural roadways ONLY when there is a history of centerline cross over crashes.

Other applications: Audible and Vibratory markings shall also be considered on flush shoulder roadways within Urban 2 and Urban 3 boundaries; noise is the primary consideration in these areas.

****
GROSS MILE & NET MILE ITEMS: Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications.
The net mile quantity shall be used to pay for all 6" solid stripe, except those identified above for payment as linear foot items.

Accuracy: GM and NM items are measured to 1/1000 of a mile.

Related Items	**Required**	**Recommended**
Forms	**Design**	
	Construction	
Documentation	**Design**	
	Construction	
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **701- 1A-BCD** **AUDIBLE AND VIBRATORY PAVEMENT MARKINGS** **Mixed**

A= Class
1 (Standard)

B= Color
1 (White)
2 (Yellow)

C= Type of Marking
1 (Solid) NM
2 (Skip) GM

D= Width
1 (6")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0701 11111	AUDIBLE & VIBRATORY PAVEMENT MARKING,STANDARD,WHITE, SOLID, 6"	NM		9/1/2008		$0.00
0701 11121	AUDIBLE & VIBRATORY PAVEMENT MARKING,STANDARD,WHITE, SKIP, 6"	GM		9/1/2008		$0.00
0701 11211	AUDIBLE & VIBRATORY PAVEMENT MARKING,STANDARD,YELLOW, SOLID, 6"	NM		9/1/2008		$0.00
0701 11221	AUDIBLE & VIBRATORY PAVEMENT MARKING,STANDARD, YELLOW, SKIP,6"	GM		9/1/2008		$0.00

702-??? WET WEATHER MARKINGS ?? INVERTED RIB PROFILE MARKINGS

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?**

Notes **Future Effective Date: See 906-702 items.**

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0300 Signing and Pavement Markings

Status

Struct. **702-???** **WET WEATHER MARKINGS ?? INVERTED RIB PROFILE MARKINGS** **Mixed**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

705- 10- A OBJECT MARKER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **New items to be effective January 2008.**

Details Object Markers are to be used to mark obstructions within or adjacent to the roadway, as indicated in the Design Standards or on the plans. Additional details are available in the MUTCD, Chapter 3C.
****
Refer to Delineators for marking the roadway alignment

Related Items **Required** **Recommended** 705-11

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17349 (Object Markers), 17345 and 17346 (Delineators), 17349 (Object Markers) 17359 (Object Markers and Delineators)

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **705- 10- A** **OBJECT MARKER** **EA**

A= Type*
1 (Type 1)
2 (Type 2)
3 (Type 3)
4 (Type 4)

Notes *Note: The Type is defined in the MUTCD, Chapter 3C.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0705 10 1	OBJECT MARKER, TYPE 1	EA		1/1/2008		$130.96
0705 10 2	OBJECT MARKER, TYPE 2	EA		1/1/2008		$55.58
0705 10 3	OBJECT MARKER, TYPE 3	EA		1/1/2008		$130.97
0705 10 4	OBJECT MARKER, TYPE 4	EA		1/1/2008		$177.69

705- 11- A DELINEATOR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **New items effective January 2008. Replaces 705 items.**

Details Delineators are to be used along the side of the roadway to indicate the alignment of the roadway, as indicated in the Design Standards or on the plans. Additional details are available in the Plans Preparation Manual (PPM) Vol 1, Chapter 7, and the MUTCD, Chapter 3D.
****
Refer to Object Markers to mark obstructions.

Related Items **Required** **Recommended** 705-10

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, 7.2.9

Other

Standards Index No. 17349 (Object Markers), 17345 and 17346 (Delineators), 17349 (Object Markers) 17359 (Object Markers and Delineators)

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **705- 11- A** **DELINEATOR** **EA**

A= Type
1 (Flexible Tubular)
2 (non-Flexible)
3 (Flexible High Visibility Median)
4 (Flexible High Performance)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0705 11 1	DELINEATOR, FLEXIBLE TUBULAR	EA		1/1/2008		$67.93
0705 11 2	DELINEATOR, NON-FLEXIBLE	EA		1/1/2008		$67.41
0705 11 3	DELINEATOR, FLEXIBLE HIGH VISABILITY MEDIAN	EA		1/1/2008		$91.55
0705 11 4	DELINEATOR, FLEXIBLE HIGH PERFORMANCE	EA		1/1/2008		$91.75

706- 3- RETRO-REFLECTIVE PAVEMENT MARKER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Refer to 710- 90 for final surface payment.
Use Type B, unless otherwise shown in the plans. Use Pavement markers to supplement lane lines and gore markings, as shown on design standards.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17345, 17352

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **706- 3-** **RETRO-REFLECTIVE PAVEMENT MARKER** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0706 3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA		1/1/2007		$4.37

709- 1A-BCD TRAFFIC STRIPE- TWO REACTIVE COMPONENTS

Unit EA, LF, GM, NM; GK, NK **Accuracy** Each; Linear Foot; 1/1000 mile **PlanQuantity?**

Notes **Effective January 2007 letting. Replaces all other 709 items.**

Details Consists of "Two Reactive Component Traffic Stripe and Markings" used in areas representing final and work zone pavement markings.
Refer to the Specification for the complete Method of Measurement.
Broken (skip) stripes shall consist of a succession of solid stripes.

****
Measurement and Payment for Pavement Markings:

LINEAR FOOT ITEMS: Intended for solid stripes 8" wide and greater. The linear foot quantity shall also be used to pay for 2-4 "guide line" and 6-10 "gap extension through cross-over area" (all skip lines, except 3-9 or 10-30 skip traffic stripe sections), as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.

GROSS MILE & NET MILE ITEMS: Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications.
The net mile quantity shall be used to pay for all 6" solid stripe, except those identified above for payment as linear foot items.

REMOVAL ITEM (A=7): The cost for removing any conflicting pavement markings is to be included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-17 is only to be used for Maintenance projects to remove non-conflicting pavement markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-17- for removal of thermoplastic prior to applying more thermo, because the maximum thickness will be exceeded if existing thermo is not removed).

YIELD LINE: Per the MUTCD, a yield line is a series of solid white isosceles triangles, used at intersection approaches controlled by a yield sign. It is measured per linear foot, with a length approximately equal to the lane width(s).

CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic and one application of black skip paint. Payment will be made for the length of white + length of black stripe applied.

MESSAGES: Each word is paid as one message. For example, "SUN PASS ONLY" will be paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT", "TURN". Additional messages shown on index 17346.

Note: Accuracy for LF items is per Linear Foot; Mile items to 1/1000th of a mile; and Square Foot items to the nearest square foot.

TRNS*PORT quantities: For Category 0200- MOT, continue to use 710 and 102-78 items. For Category 0300- Signing and Pavement Markings , include 710-90 pay item for final surface; do not include other 710 or 706-3 items.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	700-050-52	
Documentation	**Design**		
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **709- 1A-BCD** **TRAFFIC STRIPE- TWO REACTIVE COMPONENTS** **EA, LF, GM,**

A= Class
1 (Standard)
7 (Remove) SF Note: When A=7, BCD= Blank

B=Color
1 (White)
2 (Yellow)
3 (Black)

C= Type of Marking
1 (Solid) NM
2 (Solid) LF
3 (Skip) GM
4 (Skip) LF
5 (Dotted/Guideline) LF

D= Width
1 (6")
2 (8")
3 (12")
4 (18")
5 (24")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0709 11111	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, WHITE, SOLID, 6"	NM		1/1/2007		$5,000.00
0709 11123	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, WHITE, SOLID, 12"	LF		1/1/2007		$5.00
0709 11124	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, WHITE, SOLID, 18"	LF		1/1/2007		$5.00
0709 11125	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, WHITE, SOLID, 24"	LF		1/1/2007		$5.00
0709 11131	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, WHITE, SKIP, 6"	GM		1/1/2007		$5,000.00
0709 11141	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, WHITE, SKIP, 6"	LF		1/1/2007		$5.00
0709 11211	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, YELLOW, SOLID, 6"	NM		1/1/2007		$5,000.00
0709 11222	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, YELLOW, SOLID, 8"	LF		1/1/2007		$5.00
0709 11224	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, YELLOW, SOLID, 18"	LF		1/1/2007		$5.00
0709 11241	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, STANDARD, YELLOW, SKIP, 6"	LF		1/1/2007		$5.00
0709 17	TRAFFIC STRIPE-TWO REACTIVE COMPONENTS, REMOVE	SF		1/1/2007		$2.00

710- 1A-BCD PAINTED PAVEMENT MARKINGS

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes

Refer to 2008 Estimates Bulletins for changes to units of measure and removal of stripe items.

Details

Consists of paint used in areas representing final and work zone pavement markings.
Refer to the Specification for the complete Method of Measurement.
Broken (skip) stripes shall consist of a succession of solid stripes.

****
Measurement and Payment for Pavement Markings:

LINEAR FOOT ITEMS: Intended for solid stripes 8" wide and greater. The linear foot quantity shall also be used to pay for 2-4 "guide line" and 6-10 "gap extension through cross-over area" (all skip lines, except 3-9 or 10-30 skip traffic stripe sections), as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.

GROSS MILE & NET MILE ITEMS: Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications.
The net mile quantity shall be used to pay for all 6" solid stripe, except those identified above for payment as linear foot items.

REMOVAL ITEM (A=7): The cost for removing any conflicting pavement markings is to be included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-17 is only to be used for Maintenance projects to remove non-conflicting pavement markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-17- for removal of thermoplastic prior to applying more thermo, because the maximum thickness will be exceeded if existing thermo is not removed).

YIELD LINE: Per the MUTCD, a yield line is a series of solid white isosceles triangles, used at intersection approaches controlled by a yield sign. It is measured per linear foot, with a length approximately equal to the lane width(s).

CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic and one application of black skip paint. Payment will be made for the length of white + length of black stripe applied.

MESSAGES: Each word is paid as one message. For example, "SUN PASS ONLY" will be paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT", "TURN". Additional messages shown on index 17346.

Note: Accuracy for LF items is per Linear Foot; Mile items to 1/1000th of a mile; and Square Foot items to the nearest square foot.

TRNS*PORT quantities: For Category 0200- MOT, continue to use 710 and 102-78 items. For Category 0300- Signing and Pavement Markings , include 710-90 pay item for final surface; do not include other 710 or 706-3 items.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	700-050-52	
Documentation	**Design**		
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **710- 1A-BCD** **PAINTED PAVEMENT MARKINGS** **Mixed**

A= Class
1 (Standard)
7 (Remove) SF, BCD=blank

B= Color

1 (White)
2 (Yellow) C=1, 2, 3, 4, 5, 9
3 (Black)
4 (Blue)

C= Type of Marking
1 (Solid) NM; D = 1
2 (Solid) LF; D = 2, 3, 4, 5

3 (Skip) GM; D= 1 or 2*
4 (Skip) LF; D= 1 or 2*

5 (Dotted / Guide line) LF; D=1*
6 (Message) EA; D=0, Includes YIELD message
7 (Arrows) EA; D=0
8 (Yield Line) LF; D=0 see details above
9 (Island Nose) SF; D=0

D= Width
1 (6")
2 (8")
3 (12")
4 (18")
5 (24")

Notes *See details above

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0710 11111	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	NM		1/1/2007		$1,101.64
0710 11112	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 8"	NM		1/1/2007	12/31/2008	$1,481.60
0710 11113	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"	NM		1/1/2007	12/31/2008	$1,465.40
0710 11114	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 18"	NM		1/1/2007	12/31/2008	$0.00
0710 11115	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24"	NM		1/1/2007	12/31/2008	$7,250.00
0710 11121	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	LF		1/1/2007	12/31/2008	$0.35
0710 11122	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 8"	LF		1/1/2007		$0.45
0710 11123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"	LF		1/1/2007		$0.90
0710 11124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 18"	LF		1/1/2007		$1.29
0710 11125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24"	LF		1/1/2007		$1.75
0710 11131	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 6"	GM		1/1/2007		$465.16
0710 11132	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 8"	GM		1/1/2007	12/31/2008	$649.36
0710 11133	PAINTED PVMT MARK, STANDARD, WHITE, SKIP, 12"	GM		1/1/2007	8/31/2008	$1,750.00

0710 11141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 6"	LF	1/1/2007		$0.28
0710 11142	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SKIP, 8"	LF	1/1/2007		$0.68
0710 11151	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, DOTTED - GUIDELINE, 6"	LF	1/1/2007		$0.51
0710 11160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE	EA	1/1/2007		$60.25
0710 11170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	1/1/2007		$24.21
0710 11180	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, YIELD LINE	LF	1/1/2007		$5.30
0710 11190	PAINTED PAVEMENT MARKINGS,STANDARD,WHITE,ISLAND NOSE	SF	1/1/2007		$2.68
0710 11211	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	NM	1/1/2007		$1,119.23
0710 11212	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 8"	NM	1/1/2007	12/31/2008	$2,107.33
0710 11213	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 12"	NM	1/1/2007	12/31/2008	$0.00
0710 11214	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 18"	NM	1/1/2007	12/31/2008	$0.00
0710 11215	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 24"	NM	1/1/2007	12/31/2008	$0.00
0710 11221	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	LF	1/1/2007	12/31/2008	$0.34
0710 11222	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 8"	LF	1/1/2007		$0.52
0710 11223	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 12"	LF	1/1/2007		$1.31
0710 11224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 18"	LF	1/1/2007		$1.33
0710 11225	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 24"	LF	1/1/2007		$2.00
0710 11231	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	GM	1/1/2007		$517.52
0710 11241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	LF	1/1/2007		$0.50
0710 11251	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, DOTTED/ GUIDELINE, 6"	LF	1/1/2007		$0.76
0710 11260	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, MESSAGE NOSE	EA	1/1/2007		$60.00
0710 11290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	1/1/2007		$2.03
0710 11311	PAINTED PAVEMENT MARKINGS, STANDARD,BLACK, SOLID, 6"	NM	1/1/2007		$500.00

0710 11321	PAINTED PAVEMENT MARKINGS, STANDARD,BLACK, SOLID, 6"	LF	1/1/2007		$3.33
0710 11331	PAINTED PAVEMENT MARKINGS, STANDARD,BLACK, SKIP, 6"	GM	1/1/2007		$705.50
0710 11341	PAINTED PAVEMENT MARKINGS, STANDARD,BLACK, SKIP, 6"	LF	1/1/2007		$0.50
0710 11342	PAINTED PAVEMENT MARKINGS, STANDARD,BLACK, SKIP, 8"	LF	1/1/2007		$1.45
0710 11421	PAINTED PAVEMENT MARKINGS, STANDARD, BLUE, SOLID, 6"	LF	1/1/2007		$1.03
0710 11460	PAINTED PAVEMENT MARKINGS, STANDARD,BLUE, MESSAGE	EA	1/1/2007		$100.00
0710 17	PAINTED PAVEMENT MARKINGS, REMOVE	SF	1/1/2007	12/31/2008	$1.45

710- 90- PAINTED PAVEMENT MARKINGS- FINAL SURFACE

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details

Includes payment for final surface pavement markings (2 applications), including RPMs (1 application).
DOES NOT include pavement markings used for Maintenance of Traffic. Must continue to use other 710 items for MOT applications.

TRNS*PORT quantities: For Category 0200- MOT, continue to use 710 and 102-78 items. For Category 0300- Signing and Pavement Markings , include 710-90 pay item for final surface; do not include other 710 or 706-3 items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction 700-050-52

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **710- 90-** **PAINTED PAVEMENT MARKINGS- FINAL SURFACE** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS		1/1/2007		$50,332.24

711- 1A-BCD THERMOPLASTIC

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes

Refer to 2008 Estimates Bulletins for changes to units of measure and removal of stripe items.

Details

Consists of paint used in areas representing final and work zone pavement markings.
Refer to the Specification for the complete Method of Measurement.
Broken (skip) stripes shall consist of a succession of solid stripes.

****
Measurement and Payment for Pavement Markings:

LINEAR FOOT ITEMS: Intended for solid stripes 8" wide and greater. The linear foot quantity shall also be used to pay for 2-4 "guide line" and 6-10 "gap extension through cross-over area" (all skip lines, except 3-9 or 10-30 skip traffic stripe sections), as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.

GROSS MILE & NET MILE ITEMS: Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications.
The net mile quantity shall be used to pay for all 6" solid stripe, except those identified above for payment as linear foot items.

REMOVAL ITEM (A=7): The cost for removing any conflicting pavement markings is to be included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-17 is only to be used for Maintenance projects to remove non-conflicting pavement markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-17- for removal of thermoplastic prior to applying more thermo, because the maximum thickness will be exceeded if existing thermo is not removed).

SUN PASS LANES: The 3-9 skip, 12" wide, per GM is used to designate a sun pass lane or similar approach to a toll plaza.

YIELD LINE: Per the MUTCD, a yield line is a series of solid white isosceles triangles, used at intersection approaches controlled by a yield sign. It is measured per linear foot, with a length approximately equal to the lane width(s).

CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic and one application of black skip paint. Payment will be made for the length of white + length of black stripe applied.

MESSAGES: Each word is paid as one message. For example, "SUN PASS ONLY" will be paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT", "TURN". Additional messages shown on index 17346.

Note: Accuracy for LF items is per Linear Foot; Mile items to 1/1000th of a mile; and Square Foot items to the nearest square foot.

TRNS*PORT quantities: For Category 0200- MOT, continue to use 710 and 102-78 items. For Category 0300- Signing and Pavement Markings , include 710-90 pay item for final surface; do not include other 710 or 706-3 items.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	700-050-52	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **711- 1A-BCD** **THERMOPLASTIC** **Mixed**

A=Class
1 (Standard)
2 (Refurbishment)
3 (Hot Spray)
4 (Preformed)
7 (Remove) SF Note: When A=7, BCD=blank

B=Color
1 (White)
2 (Yellow)*
3 (Black) **
4 (Blue)***
*when B=2, C=1, 2, 3, 4 or 5
**B=3 not valid as of 12-15-05; use 710 items.
***when B=4, C=2, 6

C= Type of Marking
1 (Solid) NM
2 (Solid) LF
3 (Skip) GM*
4 (Skip) LF*
5 (Dotted/Guideline) LF**
6 (Message) EA *** Includes Yield Messages
7 (Arrows) EA ***
8 (Yield Line) LF ***
*when C=3, D=1, 2, or 3
*when C= 4, D=1 or 2
**when C=5, D=1
***when C= 6, 7, or 8, D=0

D= Width
1 (6")
2 (8")
3 (12")
4 (18")

5 (24")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0711 11111	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	NM		1/1/2007		$3,210.74
0711 11112	THERMOPLASTIC, STANDARD, WHITE, SOLID, 8"	NM		1/1/2007	12/31/2008	$4,870.53
0711 11113	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	NM		1/1/2007	12/31/2008	$10,422.70
0711 11114	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18"	NM		1/1/2007	12/31/2008	$0.00
0711 11115	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	NM		1/1/2007	12/31/2008	$0.00
0711 11121	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	LF		1/1/2007	12/31/2008	$1.25
0711 11122	THERMOPLASTIC, STANDARD, WHITE, SOLID, 8"	LF		1/1/2007		$1.17
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	LF		1/1/2007		$1.98
0711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18"	LF		1/1/2007		$2.86
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF		1/1/2007		$3.85
0711 11131	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6"	GM		1/1/2007		$991.54
0711 11132	THERMOPLASTIC, STANDARD, WHITE, SKIP, 8"	GM		1/1/2007	12/31/2008	$1,783.33
0711 11133	THERMOPLASTIC, STANDARD, WHITE, SKIP, 12"	GM		1/1/2007	12/31/2008	$1,750.00
0711 11141	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6"	LF		1/1/2007	12/31/2008	$1.13
0711 11142	THERMOPLASTIC, STANDARD, WHITE, SKIP, 8"	LF		1/1/2007		$1.90
0711 11151	THERMOPLASTIC, STANDARD, WHITE, DOTTED GUIDELINE, 6"	LF		1/1/2007		$1.26
0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE	EA		1/1/2007		$130.95
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA		1/1/2007		$56.61
0711 11180	THERMOPLASTIC, STANDARD, WHITE, YIELD LINE	LF		1/1/2007		$31.50
0711 11211	THERMOPLASTIC, STANDARD,YELLOW, SOLID, 6"	NM		1/1/2007		$3,151.33
0711 11212	THERMOPLASTIC, STANDARD,YELLOW, SOLID, 8"	NM		1/1/2007	12/31/2008	$5,723.81
0711 11214	THERMOPLASTIC, STANDARD,YELLOW, SOLID, 18"	NM		1/1/2007	12/31/2008	$0.00

0711 11221	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	LF	1/1/2007	12/31/2008	$1.22
0711 11222	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 8"	LF	1/1/2007		$1.28
0711 11223	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 12"	LF	1/1/2007		$3.00
0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18"	LF	1/1/2007		$2.89
0711 11225	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 24"	LF	1/1/2007		$3.00
0711 11231	THERMOPLASTIC, STANDARD, YELLOW, SKIP, 6"	GM	1/1/2007		$1,207.48
0711 11241	THERMOPLASTIC, STANDARD, YELLOW, SKIP, 6"	LF	1/1/2007	12/31/2008	$1.14
0711 11251	THERMOPLASTIC, STANDARD, YELLOW, DOTTED / GUIDELINE, 6"	LF	1/1/2007		$1.36
0711 11421	THERMOPLASTIC, STANDARD, BLUE, SOLID,6"	LF	1/1/2007		$6.59
0711 11460	THERMOPLASTIC, STANDARD, BLUE, MESSAGE	EA	1/1/2007		$186.67
0711 12111	THERMOPLASTIC, REFURBISHMENT, WHITE, SOLID, 6"	NM	1/1/2007		$1,000.00
0711 12112	THERMOPLASTIC, REFURBISHMENT, WHITE, SOLID, 8"	NM	1/1/2007	12/31/2008	$1,000.00
0711 12121	THERMOPLASTIC, REFURBISHMENT, WHITE, SOLID, 6"	LF	1/1/2007		$1.35
0711 12122	THERMOPLASTIC, REFURBISHMENT, WHITE, SOLID, 8"	LF	1/1/2007		$1.60
0711 12123	THERMOPLASTIC, REFURBISHMENT, WHITE, SOLID, 12"	LF	1/1/2007		$2.51
0711 12124	THERMOPLASTIC, REFURBISHMENT, WHITE, SOLID, 18"	LF	1/1/2007		$3.05
0711 12125	THERMOPLASTIC, REFURBISHMENT, WHITE, SOLID, 24"	LF	1/1/2007		$4.71
0711 12131	THERMOPLASTIC, REFURBISHMENT, WHITE, SKIP, 6"	GM	1/1/2007		$1,000.00
0711 12141	THERMOPLASTIC, REFURBISHMENT, WHITE, SKIP, 6"	LF	1/1/2007		$2.27
0711 12151	THERMOPLASTIC, REFURBISHMENT, WHITE, DOTTED/GUIDELINE 6"	LF	1/1/2007		$1.00
0711 12160	THERMOPLASTIC, REFURBISH, WHITE, MESSAGE	EA	1/1/2007		$100.00
0711 12170	THERMOPLASTIC, REFURBISH, WHITE, ARROWS	EA	1/1/2007		$129.23
0711 12211	THERMOPLASTIC, REFURBISHMENT, YELLOW, SOLID, 6"	NM	1/1/2007		$1,000.00
0711 12212	THERMOPLASTIC, REFURBISHMENT, YELLOW, SOLID, 8"	NM	1/1/2007	12/31/2008	$1,000.00
0711 12221	THERMOPLASTIC, REFURBISHMENT, YELLOW, SOLID, 6"	LF	1/1/2007		$2.07

0711 12222	THERMOPLASTIC, REFURBISHMENT, YELLOW, SOLID, 8"	LF	1/1/2007		$4.00
0711 12223	THERMOPLASTIC, REFURBISHMENT, YELLOW, SOLID, 12"	LF	1/1/2007		$5.00
0711 12224	THERMOPLASTIC, REFURBISHMENT, YELLOW, SOLID, 18"	LF	1/1/2007		$9.10
0711 12225	THERMOPLASTIC, REFURBISHMENT, YELLOW, SOLID, 24"	LF	1/1/2007		$5.00
0711 12231	THERMOPLASTIC, REFURBISHMENT, YELLOW, SKIP, 6"	GM	1/1/2007		$11,749.75
0711 12241	THERMOPLASTIC, REFURBISHMENT, YELLOW, SKIP, 6"	LF	1/1/2007		$5.00
0711 12251	THERMOPLASTIC, REFURBISHMENT, YELLOW DOTTED / GUIDELINE, 6"	LF	1/1/2007		$5.00
0711 13111	THERMOPLASTIC, HOT SPRAY, WHITE, SOLID, 6"	NM	1/1/2007		$1,000.00
0711 13112	THERMOPLASTIC, HOT SPRAY, WHITE, SOLID, 8"	NM	1/1/2007	12/31/2008	$1,000.00
0711 13121	THERMOPLASTIC, HOT SPRAY, WHITE, SOLID, 6"	LF	1/1/2007	12/31/2008	$5.00
0711 13122	THERMOPLASTIC, HOT SPRAY, WHITE, SOLID, 8"	LF	1/1/2007		$5.00
0711 13123	THERMOPLASTIC, HOT SPRAY, WHITE, SOLID, 12"	LF	1/1/2007		$5.00
0711 13124	THERMOPLASTIC, HOT SPRAY, WHITE, SOLID, 18"	LF	1/1/2007		$5.00
0711 13125	THERMOPLASTIC, HOT SPRAY, WHITE, SOLID, 24"	LF	1/1/2007		$18.00
0711 13131	THERMOPLASTIC, HOT SPRAY, WHITE, SKIP, 6"	GM	1/1/2007		$1,000.00
0711 13141	THERMOPLASTIC, HOT SPRAY, WHITE, SKIP, 6"	LF	1/1/2007	12/31/2008	$5.00
0711 13151	THERMOPLASTIC, HOT SPRAY, WHITE, DOTTED GUIDELINE, 6"	LF	1/1/2007		$5.00
0711 13160	THERMOPLASTIC, HOT SPRAY, WHITE, MESSAGE	EA	1/1/2007		$100.00
0711 13170	THERMOPLASTIC, HOT SPRAY, WHITE, ARROW	EA	1/1/2007		$100.00
0711 13211	THERMOPLASTIC, HOT SPRAY, YELLOW, SOLID, 6"	NM	1/1/2007		$1,000.00
0711 13212	THERMOPLASTIC, HOT SPRAY, YELLOW, SOLID, 8"	NM	1/1/2007	12/31/2008	$1,000.00
0711 13221	THERMOPLASTIC, HOT SPRAY, YELLOW, SOLID, 6"	LF	1/1/2007	12/31/2008	$5.00
0711 13222	THERMOPLASTIC, HOT SPRAY, YELLOW, SOLID, 8"	LF	1/1/2007		$5.00
0711 13223	THERMOPLASTIC, HOT SPRAY, YELLOW, SOLID, 12"	LF	1/1/2007		$5.00
0711 13224	THERMOPLASTIC, HOT SPRAY, YELLOW, SOLID, 18"	LF	1/1/2007		$5.00

0711 13225	THERMOPLASTIC, HOT SPRAY, YELLOW, SOLID, 24"	LF	1/1/2007		$5.00
0711 13231	THERMOPLASTIC, HOT SPRAY, YELLOW, SKIP, 6"	GM	1/1/2007		$1,000.00
0711 13241	THERMOPLASTIC, HOT SPRAY, YELLOW, SKIP, 6"	LF	1/1/2007	12/31/2008	$5.00
0711 13251	THERMOPLASTIC, HOT SPRAY, YELLOW, DOTTED / GUIDELINE, 6"	LF	1/1/2007		$5.00
0711 14121	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 6"	LF	1/1/2007	12/31/2008	$3.97
0711 14122	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 8"	LF	1/1/2007		$5.22
0711 14131	THERMOPLASTIC, PREFORMED, WHITE, SKIP, 6"	GM	1/1/2007		$5,000.00
0711 14141	THERMOPLASTIC, PREFORMED, WHITE, SKIP, 6"	LF	1/1/2007		$4.05
0711 14160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	1/1/2007		$306.21
0711 14170	THERMOPLASTIC, PREFORMED, WHITE, ARROWS	EA	1/1/2007		$563.03
0711 14222	THERMOPLASTIC, PREFORMED,YELLOW,SOLID, 8"	LF	1/1/2007		$5.23
0711 14224	THERMOPLASTIC, PREFORMED,YELLOW,SOLID,18"	LF	1/1/2007		$9.37
0711 17	THERMOPLASTIC, REMOVE	SF	1/1/2007		$2.23

713-1AA-BCD PAVEMENT MARKING- PREFORMED TAPE

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes **Refer to 2008 Estimates Bulletins for changes to units of measure and removal of stripe items.**

Details Preformed Tape to be considered for use on concrete surfaces.

High performance tapes are required for longitudinal markings; standard tapes are limited to transverse lines, arrows, and messages.

Refer to the Specification for the complete Method of Measurement.
Broken (skip) stripes shall consist of a succession of solid stripes.

****
Measurement and Payment for Pavement Markings:

LINEAR FOOT ITEMS: Intended for solid stripes 8" wide and greater. The linear foot quantity shall also be used to pay for 2-4 "guide line" and 6-10 "gap extension through cross-over area" (all skip lines, except 3-9 or 10-30 skip traffic stripe sections), as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the last painted stripe, and it shall NOT include the unpainted intervals.

GROSS MILE & NET MILE ITEMS: Intended for 6" stripe. The gross mile quantity shall be used to pay for all 3-9 or 10-30 skip traffic stripes, as indicated in the plans. Measurement will be taken as the distance from the beginning of the first painted stripe to the end of the

last painted stripe, and shall include the unpainted intervals, subject to 9-1.3. It will not include any lengths of unpainted intervals which are greater than 30 ft, per the specifications.
The net mile quantity shall be used to pay for all 6" solid stripe, except those identified above for payment as linear foot items.

REMOVAL ITEM (A=7): The cost for removing any conflicting pavement markings is to be included in the cost of MOT Lump Sum, per Specification 710-4 and 102-5.8. Pay item 710-17 is only to be used for Maintenance projects to remove non-conflicting pavement markings (i.e. removal of paint prior to applying a two-component reactive material; or 711-17- for removal of thermoplastic prior to applying more thermo, because the maximum thickness will be exceeded if existing thermo is not removed).

YIELD LINE: Per the MUTCD, a yield line is a series of solid white isosceles triangles, used at intersection approaches controlled by a yield sign. It is measured per linear foot, with a length approximately equal to the lane width(s).

CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic and one application of black skip paint. Payment will be made for the length of white + length of black stripe applied.

MESSAGES: Each word is paid as one message. For example, "SUN PASS ONLY" will be paid as 3 messages. Other example messages include "YIELD", "MERGE", "LEFT", "TURN". Additional messages shown on index 17346.

Note: Accuracy for LF items is per Linear Foot; Mile items to 1/1000th of a mile; and Square Foot items to the nearest square foot.

TRNS*PORT quantities: For Category 0200- MOT, continue to use 710 and 102-78 items. For Category 0300- Signing and Pavement Markings , include 710-90 pay item for final surface; do not include other 710 or 706-3 items.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	700-050-52	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **713-1AA-BCD** **PAVEMENT MARKING- PREFORMED TAPE** **Mixed**

AA= Class*
01 (Standard)
02 (High Performance)
07 (Removal) SF, BCD=blank

B= Color

1 (White)
2 (Yellow)
3 (Black)
4 (Blue)
5 (White w/Black Contrast)**

C= Type of Marking
1 (Solid) NM
2 (Solid) LF
3 (Skip) GM
4 (Skip) LF
5 (Dotted / Guideline) LF
6 (Messages) EA, D=0
7 (Arrows) EA, D=0

D= Width
0 when C=6, 7
1 (6")
2 (8")
3 (9")**
4 (12")
5 (18")
6 (24")

Notes Note (Effective 1-1-2009) 6" stripe paid per NM or GM only; 8, 12, 18, and 24" stripe paid per LF.
**Note (effective 1-1-2007) : 9" black/white contrast will be paid per linear foot.
Note (through 12-31-2008): Mile (kilometer) units only valid with 6" or 8" stripes
*See details for guidance on class selection

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0713101111	PREFORMED TAPE, STANDARD, WHITE, SOLID, 6"	NM		1/1/2007		$15,425.00
0713101121	PREFORMED TAPE, STANDARD, WHITE, SOLID, 6"	LF		1/1/2007	12/31/2008	$4.38
0713101122	PREFORMED TAPE, STANDARD, WHITE, SOLID, 8"	LF		1/1/2007		$4.42
0713101125	PREFORMED TAPE, STANDARD, WHITE, SOLID, 18"	LF		1/1/2007		$5.00
0713101126	PREFORMED TAPE, STANDARD, WHITE, SOLID, 24"	LF		1/1/2007		$27.12
0713101131	PREFORMED TAPE, STANDARD, WHITE, SKIP, 6"	GM		1/1/2007		$6,900.00
0713101141	PREFORMED TAPE, STANDARD, WHITE, SKIP, 6"	LF		1/1/2007	12/31/2008	$3.35
0713101151	PREFORMED TAPE, STANDARD, WHITE, SOLID, 6"	NM		1/1/2007		$5,000.00
0713101160	PREFORMED TAPE, STANDARD, WHITE, MESSAGE	EA		1/1/2007		$212.54
0713101170	PREFORMED TAPE, STANDARD, WHITE, ARROWS	EA		1/1/2007		$150.03
0713101211	PREFORMED TAPE, STANDARD, YELLOW,SOLID, 6"	NM		1/1/2007		$5,000.00
0713101221	PREFORMED TAPE, STANDARD, YELLOW, SOLID, 6"	LF		1/1/2007	12/31/2008	$4.19

0713101222	PREFORMED TAPE, STANDARD, YELLOW, SOLID, 8"	LF	1/1/2007		$5.80
0713101225	PREFORMED TAPE, STANDARD, YELLOW, SOLID, 18"	LF	1/1/2007		$5.00
0713101523	PREFORMED TAPE, STANDARD, WHITE W/BLACK CONTRAST, SOLID, 9"	LF	1/1/2007		$11.84
0713101543	PREFORMED TAPE, STANDARD, WHITE W/BLACK CONTRAST, SKIP, 9"	LF	1/1/2007		$11.84
0713101560	PREFORMED TAPE, STANDARD, WHITE W/BLACK CONTRAST, MESSAGE	EA	1/1/2007		$500.00
0713102111	PREFORMED TAPE, HIGH PERFORMANCE, WHITE, SOLID, 6"	NM	1/1/2007		$5,000.00
0713102121	PREFORMED TAPE, HIGH PERFORMANCE, WHITE, SOLID, 6"	LF	1/1/2007	12/31/2008	$6.48
0713102122	PREFORMED TAPE, HIGH PERFORMANCE, WHITE, SOLID, 8"	LF	1/1/2007		$5.76
0713102125	PREFORMED TAPE, HIGH PERFORMANCE, WHITE, SOLID, 18"	LF	1/1/2007		$10.50
0713102131	PREFORMED TAPE, HIGH PERFORMANCE, WHITE, SKIP, 6"	GM	1/1/2007		$5,000.00
0713102141	PREFORMED TAPE, HP, WHITE, SKIP, 6"	LF	1/1/2007	12/31/2008	$5.03
0713102142	PREFORMED TAPE, HP, WHITE, SKIP, 8"	LF	1/1/2007		$14.06
0713102160	PREFORMED TAPE, HIGH PERFORMANCE, WHITE, MESSAGES	EA	1/1/2007		$412.50
0713102170	PREFORMED TAPE, HIGH PERFORMANCE, WHITE, ARROWS	EA	1/1/2007		$267.00
0713102211	PREFORMED TAPE, HIGH PERFORMANCE, YELLOW, SOLID, 6"	NM	1/1/2007		$5,000.00
0713102221	PREFORMED TAPE, HIGH PERFORMANCE, YELLOW, SOLID, 6"	LF	1/1/2007	12/31/2008	$6.48
0713102222	PREFORMED TAPE, HIGH PERFORMANCE, YELLOW, SOLID, 8"	LF	1/1/2007		$6.48
0713102531	PREFORMED TAPE, HIGH PERFORMANCE, WHITE/BLACK CONTRAST, SKIP, 6"	GM	1/1/2007		$5,000.00
0713102541	PREFORMED TAPE, HIGH PERFORMANCE, WHITE/BLACK CONTRAST, SKIP, 6"	LF	1/1/2007		$7.78
0713103121	PREFORMED TAPE, TEMPORARY, WHITE, SOLID, 6"	LF	1/1/2007	12/31/2008	$5.00
0713103141	PREFORMED TAPE, TEMPORARY, WHITE, SKIP, 6"	LF	1/1/2007	12/31/2008	$1.65
0713103160	PREFORMED TAPE, TEMPORARY, WHITE, MESSAGE	EA	1/1/2007		$300.00
0713103170	PREFORMED TAPE, TEMPORARY, WHITE, ARROWS	EA	1/1/2007		$170.00

0713103221	PREFORMED TAPE, TEMPORARY, YELLOW, SOLID, 6"	LF	1/1/2007	12/31/2008	$1.98
0713103541	PREFORMED TAPE, TEMPORARY, WHITE/BLACK CONTRAST, SKIP, 6"	LF	1/1/2007	12/31/2008	$5.80
0713107	PREFORMED TAPE, REMOVE	SF	1/1/2007		$2.00

714- 1-ABC MOTORIST AID CALL BOX

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes **For A=3-7, BC=00, effective 7/08 letting**

Details New installations- estimate quantity on basis of 2 per mile (1 per 804 meters) in project length for rural areas.

NOTE: Per Index, concrete pad is paid under Class II concrete, Misc.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17600

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 1-ABC** **MOTORIST AID CALL BOX** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Modify Existing Roadside Terminal) BC=00
5 (Relocate Existing Roadside Terminal) BC=00
6 (Remove) BC=00
7 (Refurnish) BC=00

B = Installation Type
1 (Roadside Call Terminal)
2 (Call Box Assembly)
3 (Central Terminal)

C = Form
1 (Coded Message, Radio)

2 (Coded Message, Wire)
3 (Voice, Radio)
4 (Voice, Wire)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0714 1121	MOTORIST AID CALL BOX, F&I, ROADSIDE CALL TERMINAL, CODED MESSAGE RADIO	AS	T	1/1/2007		$0.00
0714 1123	MOTORIST AID CALL BOX, F&I, CALL BOX ASSEMBLY, VOICE, RADIO	AS	T	1/1/2007		$5,000.00
0714 1300	MOTORIST AID CALL BOX, INSTALL	AS		1/1/2008		$1.00
0714 1413	MOTORIST AID CALL BOX, MODIFY, ROADSIDE CALL TERMINAL, VOICE RADIO	AS		1/1/2007		$3,000.00
0714 1500	MOTORIST AID CALL BOX, RELOCATE	AS		1/1/2008		$2,700.00
0714 1600	MOTORIST AID CALL BOX, REMOVE	AS	T	1/1/2007		$1,000.00

714- 2- A MOTORIST AID CONSOLE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 2- A** **MOTORIST AID CONSOLE** **EA**

A = Form
1 (Coded Message, Radio)
2 (Coded Message, Wire)
3 (Voice, Radio)
4 (Voice, Wire)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 3- AB MOTORIST AID COMPONENTS (F&I) CONSOLE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0200 Roadway

Status **Inactive Structure**

Struct. **714- 3- AB** **MOTORIST AID COMPONENTS (F&I) CONSOLE** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) Not Valid W/ B= 2, 3, & 4.

B = Form
1 (Antenna)
2 (290' Guyed Tower)
3 (190' Guyed Tower)
4 (190' Self Support Tower)
5 (Console)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 4-ABB MOTORIST AID MICROWAVE COMPONENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed

for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 4-ABB** **MOTORIST AID MICROWAVE COMPONENT** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)

BB =
01 (10,000 F9 Microwave 1.9 GHz)
02 (1,600 F9 Microwave 2.9 GHz)
03 (800 F9 Microwave 2.1 GHz)
04 (10,000 F9 Microwave 6.5 GHz)
05 (Master Alarm System)
06 (District Alarm System)
07 (Alarm Monitor)
08 (6' Grid Microwave Antenna)
08 (6' Grid Microwave Antenna)
09 (8' Grid Microwave Antenna)
10 (10' Grid Microwave Antenna)
11 (10' Solid Microwave Antenna)
12 (72 MHz Antenna)
13 (150-170 MHz Antenna)
14 (40- 50 MHz Antenna)
15 (450-460 MHz Antenna)
16 (CB Antenna)
17 (1/2" Foam Connectors)
18 (7/8" Air Connectors)
19 (Dehydrator And Manifold)
20 (1 5/8" Air Connectors)
21 (72 MHz Base Station)
22 (Waveguide Connectors)
23 (DTMF Call Unit)
24 (DTMF Card / Phone)
25 (Power Divider Harness)
26 (Transmitter Combiner)
27 (Receiver Multicoupler)

28 (6 GHz Digital Radio)
29 (10 GHz Digital Radio)
30 (8' Solid Microwave Antenna)
31 (6' Solid Microwave Antenna)
32 (4' Solid Microwave Antenna)
33 (72 MHz Antenna, High Gain)
34 (Phone Ringing Generator)
35 (10 GHz Waveguide Connector)
36 (Phone System)
37 (Channel Modem, Analog)
38 (Channel Modem, Digital)
39 (Pressurized Connector)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 5-ABB **MOTORIST AID MICROWAVE TOWER**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 5-ABB** **MOTORIST AID MICROWAVE TOWER** **EA**

A = Operation
1 (Furnish & Install)
2 (Transport)
3 (Disassemble)
4 (Modify) BB = 00

BB = Tower Height
10 (51' - 75')
11 (76' -100')
12 (101' -125')
13 (126' -150')

14 (151' -175')
15 (176' -200')
16 (201' -225')
17 (226' -250')
18 (251' -275')
19 (276' -300')
20 (301' -325')
21 (326' -350')
22 (351' -375')
23 (376' -400')
24 (401' -425')
25 (426- 450')

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 7- A MOTORIST AID TRANSMISSION LINES

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 7- A** **MOTORIST AID TRANSMISSION LINES** **LF**

A =
1 (1/2" Foam Transmission Line)
2 (7/8" Air Transmission Line)
3 (1 5/8" Air Transmission Line)
4 (2.01" X 1.16" Elliptic Waveguide)
5 (7/8" Foam Transmission Line)
6 (1.32" X .80" 10 GHz Elliptical Waveguide)
7 (1 5/8" Foam Transmission Line)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 8- A MOTORIST AID MICROWAVE COMMUNICATION SHELTER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 8- A** **MOTORIST AID MICROWAVE COMMUNICATION SHELTER** **EA**

A = Area In Square Feet
1 (<100 Sq. Ft. Shelter)
2 (100-125 Sq. Ft. Shelter)
3 (126-150 Sq. Ft. Shelter)
4 (151-175 Sq. Ft. Shelter)
5 (176-200 Sq. Ft. Shelter)
6 (201-250 Sq. Ft. Shelter)
7 (251-300 Sq. Ft. Shelter)
8 (301-400 Sq. Ft. Shelter)
9 (>400 Sq. Ft. Shelter)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 9- A MOTORIST AID TECHNICAL SUPPORT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed

for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 9- A** **MOTORIST AID TECHNICAL SUPPORT** **EA**

A =
1 (Training Session Number 1)
2 (Training Session Number 2)
3 (Training Session Number 3)
4 (Testing Callboxes)
5 (Control Console)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 73- RELAY STATION COMMUNICATION ASSEMBLY

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 73-** **RELAY STATION COMMUNICATION ASSEMBLY** **AS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 74- CONTROL STATION COMMUNICATION ASSEMBLY

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 74-** **CONTROL STATION COMMUNICATION ASSEMBLY** **AS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

714- 75-ABB MOTORIST AID MICROWAVE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Refer to PPM for recommended pay item plan note.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **714- 75-ABB** **MOTORIST AID MICROWAVE** **EA**

A =
1 (Spares)
2 (Test Equipment)

BB =
01 (Transmitter Baseband Combiner Card)
02 (Transmitter Baseband Amplifier Card)
03 (Transmitter Logic Card)
04 (Receiver Splitter Card)
05 (Receiver Baseband Amplifier Card)
06 (Receiver Logic Card)
07 (4w/4w Baseband Bridge)
08 (Alarm Card)
09 (Ringing Generator 5w)
10 (Hybrid Term Set
11 (FXO Signaling Adaptor)
12 (FXS Signaling Adaptor)
13 (Bypass Card W/Attenuators)
14 (Line Pilot Sync Unit)
15 (Two-Step Group Translator)
16 (Dual Hybrid Card Kit)
17 (Equalizer / Timer For Battery Charger)
18 (RF Power Meter)
19 (RF Power Sensor)
20 (Tracking Generator)
21 (Selective Level Meter)
22 (Frequency Counter)
23 (RF Attenuator 20w, 30 Db)
24 (Variable Attenuator, 6-66 Db)
25 (Trans, Imparrment Measurement Set -TIMS)
26 (Digital Multimeter)
27 (4w/4w DTMF Bridge)
28 (Test Fixtures)
29 (Transmitter Power Amplifier)
30 (Receiver RF Amplifier)
31 (Transmitter Oscillator)
32 (Transmitter Modulator)
33 (Receiver Local Oscillator)
34 (Receiver If Amplifier)
35 (Remote Alarm Terminal)
36 (Selective Call Unit)
37 (Channel Modem)
38 (HF Combiner) S)

39 (DTMF Orderwire Unit)
40 (72 MHz Base Transmitter Unit)
41 (72 MHz Base Receiver Unit)
42 (72 MHz Base Bridge)
43 (Phone Ringing Generator)
44 (Digital Channel/Codec)
45 (Spectrum Analyzer)
46 (Signal Generator)
47 (Bit Error Rate Test Set)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

715- 1- AB	**LIGHTING- CONDUCTORS**				
	Unit	LF; M1	**Accuracy**	Linear Foot; 10th of a Meter	**PlanQuantity?** yes
Notes	**Effective for projects let January 2007; replaces 715-1-ABC and 2715-11A-BCC.**				
Details	Includes conductors as per the plans and standard indexes. Design quantity shall be based on the length of single conductor in horizontal measurement. For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.				
Related Items	**Required**		**Recommended**		
Forms	**Design**	SBTBLT	COMP 700-050-03		
	Construction	Refer to Comp Book			
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.			
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.			
References	**PPM Chapter**				
	Other				
	Standards	Index No. 17500, 17501, 17502			
	Specifications				
		***Selected Items may require Tech Spec and/or Plan Detail**			
	Prep & Doc Manual Chapter(s)	6, 7, 13			

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 1- AB** **LIGHTING- CONDUCTORS** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)*
4 (Relocate)*
5 (Adjust /Modify)*
6 (Remove & Dispose)* Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage)* Note: DOT/maintaining agency retains ownership

8 (Place out of Service)*
9 OPEN Note: May be defined in item structure as Special, Rehab, etc.
* When A=3-9, B=0

B= Size
1 (No. 10 or smaller)
2 (No 8 to No. 6)
3 (No. 4 to No. 2)
4 (No. 1 to No. 0)
5 (No. 1/0 to No. 3/0)
6 (No. 4/0 or larger)
9 (Special)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 1 11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR <	LF		1/1/2007		$1.07
0715 1 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF		1/1/2007		$1.35
0715 1 13	LIGHTING CONDUCTORS, F&I, INSULATED, NO 4 TO NO 2	LF		1/1/2007		$2.24
0715 1 14	LIGHTING CONDUCTORS, F&I, INSULATED, NO 1 TO NO 0	LF		1/1/2007		$3.47
0715 1 15	LIGHTING CONDUCTORS, F&I, NO.1/0 - 3/0	LF		1/1/2007		$4.46
0715 1 16	LIGHTING CONDUCTORS, F&I, NO.4 OR LARGER	LF		1/1/2007		$4.00
0715 1 19	LIGHTING CONDUCTORS, F&I, SPECIAL	LF		1/1/2007		$2.03
0715 1 22	LIGHTING CONDUCTORS, INSTALL, NO.8 - 6	LF		1/1/2007		$1.42
0715 1 50	LIGHTING CONDUCTORS, ADJUST/MODIFY	LF		1/1/2007		$18.60
0715 1 60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF		1/1/2007		$0.68
0715 1 80	LIGHTING CONDUCTORS, PLACE OUT OF SERVICE	LF		1/1/2007		$0.70

715- 2- AB LIGHTING CONDUIT

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details

For highway lighting applications only. Includes conduit, elbows, sweeps, connecting hardware, trenching and backfill as per the plans and standard indexes. Also includes the cost of restoring cut pavement, sidewalks, sod, etc. to its original condition. Use 'Underground' in locations where the placement of the conduit will not necessitate saw-cutting of pavement. Most conduit placed on new construction projects will be placed underground prior to the placement of pavement, and should be paid for as Underground. Underpavement should be used when it is necessary to saw-cut and backfill the pavement in order to place the conduit, i.e. under EXISTING PAVEMENT. Additional conduit placed for future use should be detailed in the plans; tabulate quantity as furnished & installed conduit.

When Furnish item is used, plans or specs should detail location (maintenance yard or other) for delivery of product.

Related Items	**Required**		**Recommended**
Forms	**Design**	SBTBLT	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 17721	
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 2- AB** **LIGHTING CONDUIT** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish) B=0 plan detail or specification required
3 (Install)

B = Location
0
1 (Underground)
2 (Underpavement Sawcut) Note: Only when sawcutting is necessary for locations under EXISTING PAVEMENT
3 (Surface Mount)

Notes See details above for furnish item

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 2 11	LIGHTING - CONDUIT, F&I, UNDERGROUND	LF		1/1/2007		$4.77
0715 2 12	LIGHTING - CONDUIT, F&I, UNDER EXISTING PAVEMENT SAWCUT	LF		1/1/2007		$15.74
0715 2 13	LIGHTING CONDUIT, F&I, SURFACE MOUNT	LF		1/1/2007		$13.76
0715 2 20	LIGHTING CONDUIT, FURNISH	LF		1/1/2007		$3.75
0715 2 33	LIGHTING CONDUIT, INSTALL, SURFACE MOUNT	LF		1/1/2007		$30.00

715- 4-ABC LIGHT POLE COMPLETE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective January 2008; replaces 715-4A-BCC**

Details For standard light pole designs; poles listed on Qualified Products List (QPL). If a special foundation is needed, select the pay item based on the pole type; detail the special foundation in the plans.

Use C=Custom only when the pole height is non-standard. Remaining design standards apply.
****

For Special Design (non-standard) light poles, refer to 715-5AB-CDD.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**	17501, 17503, 17515	**Recommended**
Forms	**Design**	SBTBLT	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Structures Manual, Vol 9	
	Specifications		
		***Selected Items may require Tech Spec and/or Plan Detail**	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 4-ABC** **LIGHT POLE COMPLETE** **EA**

A= Operation
0 (Furnish & Install Standard Pole, Special Foundation) *foundations other than as shown on index 17515; details in plans
1 (Furnish & Install) Standard pole, standard foundation
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
6 (Remove) BC=00

B= Wind Speed (mph)
1 (150)
2 (130)
3 (110)

C= Pole Height (feet)
1 (40)
2 (45)
3 (50)
9 (Custom height)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 4011	LIGHT POLE COMPLETE,F&I, SPECIAL FOUNDATION,WIND SPEED 150, POLE HEIGHT 40'	EA		1/1/2008		$4,000.00
0715 4012	LIGHT POLE COMPLETE,F&I, SPECIAL FOUNDATION,WIND SPEED 150, POLE HEIGHT 45'	EA		1/1/2008		$4,000.00
0715 4013	LIGHT POLE COMPLETE,F&I, SPECIAL FOUNDATION,WIND SPEED 150, POLE HEIGHT 50'	EA		1/1/2008		$5,500.00
0715 4021	LIGHT POLE COMPLETE,F&I, SPECIAL FOUNDATION,WIND SPEED 130, POLE HEIGHT 40'	EA		1/1/2008		$7,898.91
0715 4111	LIGHT POLE COMPLETE, F&I, WIND SPEED 150, POLE - 40'	EA	T	1/1/2008		$3,885.01
0715 4112	LIGHT POLE COMPLETE, F&I, WIND SPEED 150, POLE - 45'	EA	T	1/1/2008		$6,250.00
0715 4113	LIGHT POLE COMPLETE, F&I, WIND SPEED 150, POLE HEIGHT- 50'	EA		1/1/2008		$4,413.66
0715 4119	LIGHT POLE COMPLETE, F&I, WIND SPEED 150, CUSTOM HEIGHT	EA	T	1/1/2008		$3,521.25
0715 4121	LIGHT POLE COMPLETE, F&I, WIND SPEED 130, POLE HEIGHT 40'	EA		1/1/2008		$5,582.48
0715 4122	LIGHT POLE COMPLETE, F&I, WIND SPEED 130, POLE HEIGHT 45'	EA		1/1/2008		$4,140.91
0715 4123	LIGHT POLE COMPLETE, F&I, WIND SPEED 130, POLE HEIGHT 50'	EA		1/1/2008		$4,339.56
0715 4129	LIGHT POLE COMPLETE, F&I, WIND SPEED 130, CUSTOM HEIGHT	EA	T	1/1/2008		$3,463.69
0715 4131	LIGHT POLE COMPLETE, F&I, WIND SPEED 110, POLE HEIGHT 40'	EA		1/1/2008		$8,196.86
0715 4132	LIGHT POLE COMPLETE, F&I, WIND SPEED 110, POLE HEIGHT 45'	EA		1/1/2008		$6,361.40
0715 4133	LIGHT POLE COMPLETE, F&I, WIND SPEED 110, POLE HEIGHT 50'	EA		1/1/2008		$7,107.00
0715 4139	LIGHT POLE COMPLETE, F&I, WIND SPEED 110, CUSTOM HEIGHT	EA		1/1/2008		$4,000.00
0715 4300	LIGHT POLE COMPLETE, INSTALL	EA		1/1/2008		$850.00
0715 4400	LIGHT POLE COMPLETE, RELOCATE	EA		1/1/2008		$1,751.03
0715 4600	LIGHT POLE COMPLETE, REMOVE	EA		1/1/2008		$339.83

715- 5- AB LUMINAIRE & BRACKET ARM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes the bracket arm, luminaire with lamp and all necessary mounting hardware as per the plans and indexes.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT COMP 700-050-03

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	Index No. 17500, 17501
	Specifications	
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 5- AB** **LUMINAIRE & BRACKET ARM** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Remove)

Code B = 0 If A = 3, 4, Or 5
B = Material Type
1 (Aluminum)
2 (Galvanized Steel)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 5 11	LUMINAIRE & BRACKET ARM, F&I, ALUMINUM	EA		1/1/2007		$985.21
0715 5 12	LUMINAIRE & BRACKET ARM, F&I, GALVANIZED STEEL	EA		1/1/2007		$1,294.32
0715 5 30	LUMINAIRE & BRACKET ARM, INSTALL	EA		1/1/2007		$0.00
0715 5 50	LUMINAIRE & BRACKET ARM, REMOVE	EA		1/1/2007		$171.31

715- 7- AB LOAD CENTER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes all components listed in the Standards and all external and internal conduit and conductors for the service.

Related Items	**Required**		**Recommended**
Forms	**Design**	SBTBLT	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form	

(comp book).

References **PPM Chapter**

Other

Standards Index No. 17504

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 7- AB** **LOAD CENTER** **EA**

A = Operation
1 (Furnish & Install)
2 (Rework)
3 (Relocate)
4 (Remove)

B =Service
1 (Secondary Voltage)
2 (Primary Voltage)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 7 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA		1/1/2007		$10,249.83
0715 7 12	LOAD CENTER, F&I, PRIMARY VOLTAGE	EA		1/1/2007		$5,817.34
0715 7 21	LOAD CENTER, REWORK, SECONDARY VOLTAGE	EA		1/1/2007		$3,828.34
0715 7 31	LOAD CENTER, RELOCATE, SECONDARY VOLTAGE	EA		1/1/2007		$1,961.83
0715 7 41	LOAD CENTER, REMOVE, SECONDARY VOLTAGE	EA		1/1/2007		$464.30

715- 10- A LIGHT POLE FOUNDATION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes the foundation and anchor bolts with lock nuts and washers as per the plans and standard indexes. Includes all components listed in the Standards and all external conduit and conductors for the service.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17501, 17503, 17504

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 10- A** **LIGHT POLE FOUNDATION** **EA**

A = Operation
1 (Open)
2 (Furnish & Install)
3 (Repair)
4 (Straighten Existing Foundation)
5 (Remove)
6 (Relocate)
7 (Furnish)
8 (Install)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 10 1	LIGHT POLE FOUNDATION, OPEN	EA		1/1/2007		$2,000.00
0715 10 2	LIGHT POLE FOUNDATION, F&I	EA		1/1/2007		$1,874.49
0715 10 3	LIGHT POLE FOUNDATION, REPAIR	EA		1/1/2007		$2,000.00
0715 10 4	LIGHT POLE FOUNDATION, STRAIGHTEN EXISTING FOUNDATION	EA		1/1/2007		$525.00
0715 10 5	LIGHT POLE FOUNDATION, REMOVE	EA		1/1/2007		$487.29

715- 11-ABC LUMINAIRE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes the luminaire with lamp and necessary mounting hardware as per the plans and standard indexes.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17500, 17501, 17502, 17505

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 11-ABC** **LUMINAIRE** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
5 (Remove) BC=00
6 (Repair & Reinstall) BC=00

B = Classification
1 (Roadway)
2 (Underdeck)
3 (Sign)

C = Type
1 (Cobra Head)
2 (High Mast)
3 (Pole Top)
4 (Shoe Box)
5 (Wall Mount)
6 (Pendant Hung)
7 (Sign Mount)
8 (Flood)
9 (Special)*

Notes *Selected Items require Tech Spec and/or Plan Details.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 11111	LUMINAIRE, F&I, ROADWAY, COBRA HEAD	EA		1/1/2007		$437.64
0715 11112	LUMINAIRE, F&I, ROADWAY, HIGH MAST	EA		1/1/2007		$1,100.00
0715 11113	LUMINAIRE, F&I, ROADWAY, POLE TOP	EA		1/1/2007		$687.96
0715 11114	LUMINAIRE, F&I, ROADWAY, SHOE BOX	EA		1/1/2007		$500.00
0715 11115	LUMINAIRE, F&I, ROADWAY, WALL MOUNT	EA		1/1/2007		$700.00
0715 11118	LUMINAIRE, F&I, ROADWAY, FLOOD	EA		1/1/2007		$1,524.50
0715 11119	LUMINAIRE, F&I, ROADWAY SPECIAL	EA		1/1/2007		$2,024.62
0715 11125	LUMINAIRE, F&I, UNDER DECK, WALL MOUNT	EA		1/1/2007		$726.04
0715 11126	LUMINAIRE, F&I, UNDER DECK, PENDANT HUNG	EA		1/1/2007		$753.02
0715 11128	LUMINAIRE, F&I, UNDER DECK, FLOOD	EA		1/1/2007		$1,000.00
0715 11129	LUMINAIRE, F&I, UNDER DECK, SPECIAL	EA		1/1/2007		$274.47
0715 11136	LUMINAIRE, F&I, SIGN, PENDANT HUNG	EA		1/1/2007		$0.01

0715 11137	LUMINAIRE, F&I, SIGN, SIGN MOUNT	EA		1/1/2007	$1,007.64
0715 11138	LUMINAIRE, F&I, SIGN, FLOOD	EA		1/1/2007	$1,886.40
0715 11139	LUMINAIRE, F&I, SIGN, SPECIAL	EA		1/1/2007	$490.07
0715 11229	LUMINAIRE, FURNISH, UNDER DECK, SPECIAL	EA	T	1/1/2007	$5,000.00
0715 11500	LUMINAIRE, REMOVE	EA		1/1/2007	$275.00
0715 11511	LUMINAIRE, REMOVE , ROADWAY, COBRA HEAD	EA		1/1/2007	$90.72
0715 11512	LUMINAIRE, REMOVE , ROADWAY, HIGH MAST	EA		1/1/2007	$175.00
0715 11519	LUMINAIRE, REMOVE , ROADWAY, SPECIAL	EA		1/1/2007	$101.42
0715 11525	LUMINAIRE, REMOVE, UNDER DECK, WALL MOUNT	EA		1/1/2007	$128.59
0715 11526	LUMINAIRE, REMOVE, UNDER DECK, PENDANT HUNG	EA		1/1/2007	$100.00
0715 11537	LUMINAIRE, REMOVE, SIGN - SIGN MOUNT	EA		1/1/2007	$178.33
0715 11612	LUMINAIRE, REPAIR &REINSTALL, ROADWAY, HIGH MAST	EA		1/1/2007	$300.00

715- 14- AB LIGHTING- PULL BOX

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes the pull box and cover as per plans and standard indexes.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17500, 17503

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 14- AB** **LIGHTING- PULL BOX** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Remove)

6 (Furnish & Install Cover Only)
7 (Repair)

B = Placement
1 (Roadside) - Moulded
2 (Sidewalk)
3 (Embedded) - Bridge
4 (Surface Mount)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 14 11	LIGHTING - PULL BOX, F&I, ROADSIDE-MOULDED	EA		1/1/2007		$327.02
0715 14 12	LIGHTING - PULL BOX, F&I, SIDEWALK	EA		1/1/2007		$477.79
0715 14 13	LIGHTING - PULL BOX, F&I, EMBEDDED BRIDGE	EA		1/1/2007		$229.50
0715 14 14	LIGHTING - PULL BOX, F&I, SURFACE MOUNT	EA		1/1/2007		$171.06
0715 14 22	LIGHTING - PULL BOX, FURNISH, SIDEWALK	EA		1/1/2007		$0.00
0715 14 32	LIGHTING - PULL BOX, INSTALL, SIDEWALK	EA		1/1/2007		$286.97
0715 14 41	LIGHTING - PULL BOX, RELOCATE, ROADSIDE - MOULDED	EA		1/1/2007		$230.10
0715 14 42	LIGHTING - PULL BOX, RELOCATE, SIDEWALK	EA		1/1/2007		$100.00
0715 14 51	LIGHTING - PULL BOX, REMOVE, ROADSIDE, MOULDED	EA		1/1/2007		$94.01
0715 14 52	LIGHTING - PULL BOX, REMOVE, SIDEWALK	EA		1/1/2007		$241.32
0715 14 61	LIGHTING - PULL BOX, F&I COVER ONLY, ROADSIDE-MOULDED	EA		1/1/2007		$75.00
0715 14 62	LIGHTING - PULL BOX, F&I COVER ONLY, SIDEWALK	EA		1/1/2007		$75.00
0715 14 64	LIGHTING - PULL BOX, F&I COVER ONLY, SURFACE MOUNT	EA		1/1/2007		$150.00

715- 19- A LIGHTING- SURGE PROTECTOR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SBTBLT COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 19- A** **LIGHTING- SURGE PROTECTOR** **EA**

A =
1 (Pole Base)
2 (Install Only)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 19 1	LIGHTING - SURGE PROTECTOR, POLE BASE	EA	T	1/1/2007		$269.54

715- 19-ABC HIGH MAST LIGHT POLE, COMPLETE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective January 2008; replaces 715-19A-BBB**

Details

Related Items **Required** **Recommended**

Forms **Design** SBTBLT COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design**
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 19-ABC** **HIGH MAST LIGHT POLE, COMPLETE** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
6 (Remove) BC=00

B= Wind Speed (mph)
1 (150)
2 (130)

3 (110)

C = Pole Height (feet)
1 (80)
2 (100)
3 (120)
9 (Custom

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 19111	HIGH MAST LIGHT POLE, F&I, WIND SPEED-150 MPH, POLE 80'	EA		1/1/2008		$26,000.00
0715 19112	HIGH MAST LIGHT POLE, F&I, WIND SPEED-150 MPH, POLE 100'	EA		1/1/2008		$29,850.00
0715 19113	HIGH MAST LIGHT POLE, F&I, WIND SPEED-150 MPH, POLE 120'	EA		1/1/2008		$42,500.00
0715 19119	HIGH MAST LIGHT POLE, F&I, WIND SPEED-150 MPH, CUSTOM HEIGHT	EA		1/1/2008		$57,478.12
0715 19121	HIGH MAST LIGHT POLE, F&I, WIND SPEED-130 MPH, POLE 80'	EA		1/1/2008		$20,000.00
0715 19122	HIGH MAST LIGHT POLE, F&I, WIND SPEED-130 MPH, POLE 100'	EA		1/1/2008		$28,951.69
0715 19123	HIGH MAST LIGHT POLE, F&I, WIND SPEED-130 MPH, POLE 120'	EA		1/1/2008		$37,657.76
0715 19129	HIGH MAST LIGHT POLE, F&I, WIND SPEED-130 MPH, CUSTOM HEIGHT	EA		1/1/2008		$20,000.00
0715 19133	HIGH MAST LIGHT POLE COMPLETE, F&I, WIND SPEED-110 MPH, POLE HEIGHT 120'	EA		1/1/2008		$20,000.00
0715 19300	HIGH MAST LIGHT POLE, INSTALL	EA		1/1/2008		$3,314.66
0715 19600	HIGH MAST LIGHT POLE, REMOVE	EA		1/1/2008		$1,949.89

715- 20- A LIGHTING- SCHEDULED CLEANING

Unit LU **Accuracy** Luminaire **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SBTBLT COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 20- A** **LIGHTING- SCHEDULED CLEANING** **LU**

A =
1 (Pole Mounted <50')
2 (Underdeck)
3 (Sign Luminaire)
4 (High Mast)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 20 4	LIGHTING - SCHEDULED CLEANING, HIGH MAST	LU		1/1/2007		$0.00

715- 21- 1 LUMINAIRE STARTER BOARD

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SBTBLT COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 21- 1** **LUMINAIRE STARTER BOARD** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 21 1	LUMINAIRE STARTER BOARD	EA		1/1/2007		$600.00

715- 26- A QUICK DISCONNECT PLUG

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items	**Required**		**Recommended**
Forms	**Design**	SBTBLT	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 26- A** **QUICK DISCONNECT PLUG** **EA**

A =
1 (Switch Boxing - For Sign Structure)
2 (Plug Pole Base - High Mast)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 26 1	QUICK DISCONNECT PLUG, SWITCH BOXING FOR SIGN	EA		1/1/2007		$595.25
0715 26 2	QUICK DISCONNECT PLUG,PLUG POLE BASE, HIGH MAST	EA		1/1/2007		$325.00

715- 30- AA GROUP RELAMPING (LIGHTING)

Unit LU **Accuracy** Luminaire **PlanQuantity?** no

Notes

Details

Related Items	**Required**		**Recommended**
Forms	**Design**	SBTBLT	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 30- AA** **GROUP RELAMPING (LIGHTING)** **LU**

AA =
1 (Mercury Vapor)
2 (High Pressure Sodium)
3 (Metal Halide)
4 (Bridge Mounted HPS)
5 (High Mast/HPS)
6
7
8 (Low Pressure Sodium)
9 (Fluorescent)
10 (Incandescent)
11 (State Furnished Lamps)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 30 5	GROUP RELAMPING, LIGHTING, HIGH MAST/HPS	LU		1/1/2007		$0.01

715- 31- AA LIGHTING - ROUTINE MAINTENANCE

Unit LO **Accuracy** Location **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SBTBLT COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 31- AA** **LIGHTING - ROUTINE MAINTENANCE** **LO**

AA =
1 (Shoulder, Single Arm)
2 (Shoulder, Double Arm)
3 (Median, Single Arm, Wall Mounted.)
4 (Median, Double Arm, Wall Mounted.)
5 (Bridge Mounted)

6 (Underdeck)
7 (Load Center)
8 (High Mast Pole)
9 (Overhead Sign Assembly)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

715- 34- A LIGHT POLE (MAINTENANCE USE ONLY)

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This is a Maintenance item. Coordinate with District Maintenance Office.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 34- A** **LIGHT POLE (MAINTENANCE USE ONLY)** **EA**

A =
1 (Furnish New Pole)
2 (Repair A Pole And Furnish For Reuse)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

715- 35- A MAST ARM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SBTBLT COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 35- A** **MAST ARM** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Repair)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 35 4	MAST ARM, REPAIR	EA		1/1/2007		$0.01

715- 36- AB LIGHT POLE FRANGIBLE BASE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes the frangible base, attachments, bolts and washers as per the plans and standard indexes.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards Index No. 17501
Specifications
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 36- AB** **LIGHT POLE FRANGIBLE BASE** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)

5 (Leveling In-Place Pole)

B = Type
1 (Shoe Base)
2 (Transformer Base)
3 (Frangible Insert)
4 (Door Assembly)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 36 12	LIGHT POLE, FRANGIBLE BASE, F&I, TRANSFORMER BASE	EA		1/1/2007		$525.00
0715 36 14	LIGHT POLE, FRANGIBLE BASE, F&I, DOOR ASSEMBLY	EA		1/1/2007		$87.50
0715 36 42	LIGHT POLE, FRANGIBLE BASE, REMOVE, TRANSFORMER BASE	EA		1/1/2007		$0.01

715- 37- A LIGHT POLE PHOTO ELECTRIC CONTROL ASSEMBLY

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes the photo electric control, transformer, conduit and conductors as per the plans and standard indexes.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 17504

Specifications

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0400 Lighting

Status **Inactive Structure**

Struct. **715- 37- A** **LIGHT POLE PHOTO ELECTRIC CONTROL ASSEMBLY EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)
5 (Relocate)

Notes Inactive

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 37 1	PHOTO ELECTRIC CONTROL ASSEMBLY, F&I	EA		1/1/2007		$295.01

715- 50- LIGHTING- INSIDE BOX GIRDER

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?**

Notes **Effective January 2007 letting. (Earlier implementation upon request)**

Details Intended for lighting system within box girder structures. Coordinate the use of this item with the Mechanical/Electrical Section of the State Structures Office. All work must be detailed in the plans/specifications, including a tabulation of materials.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 50-** **LIGHTING- INSIDE BOX GIRDER** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 50	LIGHTING, INSIDE BOX GIRDER	LS	T	1/1/2007		$40,541.67

715- 51- LIGHTING- TRANSFORMER FOR SPECIAL LIGHTING

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This is a special item for non-standard, underdeck aesthetic lighting systems.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715- 51-** **LIGHTING- TRANSFORMER FOR SPECIAL LIGHTING** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 51	LIGHTING- TRANSFORMER FOR SPECIAL LIGHTING	EA	T	1/1/2008		$50,000.00

715- 52- LIGHTING- COMMUNICATION/CONTROL CABLE FOR SPECIAL LIGHTING SYSTEM

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This is a special item for non-standard, underdeck aesthetic lighting systems.

Related Items **Required** **Recommended**

Forms **Design**
Construction

Documentation **Design**
Construction

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **715- 52-** **LIGHTING- COMMUNICATION/CONTROL CABLE FOR SPECIAL LIGHTING SYSTEM** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715 52	LIGHTING-COMMUNICATION/CONTROL CABLE FOR SPECIAL LIGHTING SYSTEM	LF	T	1/1/2008		$2.00

715-500- A LIGHT POLE CABLE DISTRIBUTION SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Includes the surge protector, fuse holders with fuses, waterproof connectors and waterproof wiring connection to the luminaire. Refer to Section 992 of the Specifications for details.

Related Items **Required** **Recommended**

Forms **Design** SBTBLT COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0400 Lighting

Status

Struct. **715-500- A** **LIGHT POLE CABLE DISTRIBUTION SYSTEM** **EA**

A = Type
1 = (Conventional)
2 = (High Mast)
3 = (Wall Mounted)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715500 1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA		1/1/2007		$537.44
0715500 2	POLE CABLE DISTRIBUTION SYSTEM, HIGH MAST	EA		1/1/2007		$740.46
0715500 3	POLE CABLE DISTRIBUTION SYSTEM, WALL MOUNT	EA		1/1/2007		$361.56

715-5AB-CDD LIGHT POLE COMPLETE, SPECIAL DESIGN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Used for Specially Designed Poles, including decorative or non-standard aluminum . Requires shop drawings.
Includes the pole, bracket arm, luminaire with lamp, anchor bolts with lock nuts and washers, frangible base and foundation.
****

For special foundations, select pay item based on pole type; detail foundation in the plans. For standard aluminum poles, use item 715- 4A-BCC (through 12/07) or 715-4-ABC (effective 1/2008)
****

For Turnpike Projects, Top Mount light specs/details may be available.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SBTBLT	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards	Index No. 17500, 17501, 17503	
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **715-5AB-CDD** **LIGHT POLE COMPLETE, SPECIAL DESIGN** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate) B-CDD = 0-000
5 (Remove) B-CDD = 0-000
6 (Repair & Reinstall) B-CDD = 0-000
7 (Furnish & Install With Internal Vibration Damper)

B = No. Arms & Location
1 (Single Arm Shoulder Mount)
2 (Double Arm Shoulder Mount)
3 (Single Arm Wall Mount)
4 (Double Arm Wall Mount)
5 (Single Arm Bridge Mount)
6 (Pole Top Mount)*
7 (Double Arm Bridge Mount)
8 (Double Arm, Pole Top Mount)*

C = Material Type
1 (Aluminum) non-standard designs
2 (Galvanized Steel)

3 (Concrete)
4 (Fiberglass)
5 (Wood)
6 (Cast Iron)

DD = Mounting Height (Open In Five Foot Increments

Notes *Turnpike has adopted the Top Mount as a standard for some applications; specs/details may be available from District Design

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0715511115	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 15'	EA	T	1/1/2007		$3,573.94
0715511120	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 20'	EA	T	1/1/2007		$9,273.35
0715511125	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM, SHOULDER MOUNT, ALUMINUM, 25'	EA	T	1/1/2007		$2,505.00
0715511130	LIGHT POLE COMPLETE-SPECIAL DESIGN, F&I, SGL ARM - SHLDR MNT, ALUMINUM, 30'	EA	T	1/1/2007		$5,348.12
0715511135	LIGHT POLE COMPLETE, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 35'	EA		1/1/2007		$4,942.06
0715511140	LIGHT POLE COMPLETE, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 40'	EA		1/1/2007		$2,744.12
0715511145	LIGHT POLE COMPLETE, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 45'	EA		1/1/2007		$4,639.79
0715511150	LIGHT POLE COMPLETE SPECIAL DESIGN , F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 50'	EA	T	1/1/2007		$3,765.39
0715511245	LIGHT POLE COMPLETE, F&I, SINGLE ARM SHOULDER MOUNT, GALVANIZED STEEL, 45'	EA		1/1/2007		$5,400.00
0715511330	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, CONCRETE, 30'	EA		1/1/2007		$4,571.93
0715511335	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, CONCRETE, 35'	EA		1/1/2007		$6,190.30
0715511340	LIGHT POLE COMPLETE, F&I, SINGLE ARM SHOULDER MOUNT, CONCRETE, 40'	EA		1/1/2007		$2,500.00
0715511350	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, CONCRETE, 50'	EA		1/1/2007		$4,301.29
0715511540	LIGHT POLE COMPLETE, F&I, SINGLE ARM SHOULDER MOUNT, WOOD, 40'	EA		1/1/2007		$2,125.00

0715511550	LIGHT POLE COMPLETE, F&I, SINGLE ARM SHOULDER MOUNT, WOOD, 50'	EA		1/1/2007	$2,000.00
0715512140	LIGHT POLE COMPLETE, F&I, DOUBLE ARM SHOULDER MOUNT, ALUMINUM, 40'	EA		1/1/2007	$8,756.31
0715512320	LIGHT POLE COMPLETE,F&I,DOUBLE ARM SHOULDER MOUNT CONCRETE, 20'	EA		1/1/2007	$7,445.00
0715513125	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM WALL MOUNT, ALUMINUM, 25'	EA	T	1/1/2007	$3,012.00
0715513130	LIGHT POLE COMPLETE, F&I, SINGLE ARM WALL MOUNT, ALUMINUM, 30'	EA		1/1/2007	$9,355.52
0715513135	LIGHT POLE COMPLETE, F&I, SINGLE ARM WALL MOUNT, ALUMINUM, 35'	EA		1/1/2007	$3,547.33
0715513145	LIGHT POLE COMPLETE, F&I, SINGLE ARM WALL MOUNT, ALUMINUM, 45'	EA		1/1/2007	$2,476.38
0715513150	LIGHT POLE COMPLETE, F&I, SINGLE ARM WALL MOUNT, ALUMINUM, 50'	EA		1/1/2007	$2,721.02
0715514135	LIGHT POLE COMP, F&I, DBL ARM WALL MNT, ALUM, 35'	EA		1/1/2007	$4,348.06
0715514145	LIGHT POLE COMP, F&I, DBL ARM WALL MNT, ALUM, 45'	EA		1/1/2007	$4,348.06
0715514150	LIGHT POLE COMPLETE, F&I, DOUBLE ARM WALL MOUNT, ALUMINUM, 50'	EA		1/1/2007	$4,361.51
0715515125	LIGHT POLE COMP- SPECIAL DESIGN, F&I, SINGLE ARM BRIDGE MOUNT-ALUMINUM, 25'	EA	T	1/1/2007	$3,066.00
0715515130	LIGHT POLE COMP, F&I, SGL ARM BRIDG MNT-ALUM, 30'	EA		1/1/2007	$5,000.00
0715515135	LIGHT POLE COMP, F&I, SGL ARM BRIDG MNT-ALUM, 35'	EA		1/1/2007	$9,000.00
0715515145	LIGHT POLE COMP, F&I, SGL ARM BRIDG MNT-ALUM, 45'	EA		1/1/2007	$3,200.00
0715515150	LIGHT POLE COMP, F&I, SGL ARM BRIDG MNT-ALUM, 50'	EA		1/1/2007	$3,717.13
0715516115	LIGHT POLE COMPLETE-SPECIAL DESIGN, F&I, POLE TOP MOUNT, ALUMINUM, 15'	EA		1/1/2007	$4,176.00
0715516125	LIGHT POLE COMPLETE, F&I, POLE TOP MOUNT-ALUMINUM, 25'	EA		1/1/2007	$5,000.00
0715516130	LIGHT POLE COMPLETE, F&I, POLE TOP MOUNT-ALUMINUM, 30'	EA		1/1/2007	$5,000.00
0715516135	LIGHT POLE COMPLETE, F&I, POLE TOP MOUNT-ALUMINUM, 35'	EA		1/1/2007	$5,262.09
0715516140	LIGHT POLE COMP, F&I, POLE TOP MNT-ALUMINUM, 40'	EA	T	1/1/2007	$5,474.00
0715516145	LIGHT POLE COMPLETE, F&I, POLE TOP MOUNT, ALUMINUM, 45'	EA		1/1/2007	$6,500.00

0715516320	LIGHT POLE COMPLETE, SPECIAL DESIGN, F&I ,POLE TOP MOUNT, CONCRETE, 20'	EA		1/1/2007	$4,525.00
0715517110	LIGHT POLE COMPLETE, F&I, DOUBLE ARM BRIDGE MOUNT, ALUMINUM, 10'	EA		1/1/2007	$5,000.00
0715518140	LIGHT POLE COMP, F&I, DBLE ARM, POLE TOP MNT-ALUMINUM, 40'	EA	T	1/1/2007	$0.00
0715518145	LIGHT POLE COMP, F&I, DBLE ARM, POLE TOP MNT-ALUMINUM, 45'	EA	T	1/1/2007	$0.00
0715521120	LIGHT POLE COMPLETE, FURNISH, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 20'	EA		1/1/2007	$8,063.72
0715521130	LIGHT POLE COMPLETE-SPECIAL DESIGN, FURNISH, SGL ARM - SHLDR MNT, ALUMINUM, 30'	EA	T	1/1/2007	$8,122.03
0715521135	LIGHT POLE COMPLETE, SPECIAL DESIGN, FURNISH, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 35'	EA		1/1/2007	$9,500.00
0715521140	LIGHT POLE COMPLETE, SPECIAL DESIGN, FURNISH, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 40'	EA		1/1/2007	$9,500.00
0715522130	LIGHT POLE COMPLETE, FURNISH, DOUBLE ARM SHOULDER MOUNT, ALUMINUM, 30'	EA		1/1/2007	$11,204.99
0715526115	LIGHT POLE COMPLETE-SPECIAL DESIGN, FURNISHI, POLE TOP MOUNT,ALUMINUM, 15'	EA		1/1/2007	$4,176.00
0715540000	LIGHT POLE COMPLETE, SPECIAL DESIGN, RELOCATE	EA		1/1/2007	$1,680.24
0715550000	LIGHT POLE COMPLETE, REMOVE	EA	T	1/1/2007	$545.37
0715560000	LIGHT POLE COMPLETE, REPAIR & REINSTALL	EA	T	1/1/2007	$1,194.86
0715571140	LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 40'	EA	T	1/1/2007	$5,355.66
0715571145	LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 45'	EA	T	1/1/2007	$5,000.00
0715571150	LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 50'	EA	T	1/1/2007	$4,800.00
0715573135	LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, SINGLE ARM WALL MOUNT, ALUMINUM, 35'	EA		1/1/2007	$5,000.00
0715573140	LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, SINGLE ARM WALL MOUNT, ALUMINUM, 40'	EA		1/1/2007	$4,518.00

0715574145	LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, DOUBLE ARM WALL MOUNT, ALUMINUM, 45'	EA		1/1/2007	$5,707.07
0715574150	LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, DOUBLE ARM WALL MOUNT, ALUMINUM, 50'	EA		1/1/2007	$5,250.00
0715575130	LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, SINGLE ARM BRIDGE MOUNT, ALUMINUM, 30'	EA		1/1/2007	$5,000.00
0715575140	LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, SINGLE ARM BRIDGE MOUNT, ALUMINUM, 40'	EA		1/1/2007	$3,872.93
0715575145	LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, SINGLE ARM BRIDGE MOUNT, ALUMINUM, 45'	EA		1/1/2007	$2,364.45
0715575150	LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, SINGLE ARM BRIDGE MOUNT, ALUMINUM, 50'	EA		1/1/2007	$7,821.44
0715576140	LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, POLE TOP MOUNT, ALUMINUM, 40'	EA		1/1/2007	$6,739.11
0715576145	LIGHT POLE COMPLETE, F&I, INTERNAL VIBRATING DAMPER, POLE TOP MOUNT, ALUMINUM, 45'	EA		1/1/2007	$4,333.33
0715577135	LIGHT POLE COMPLETE,F&I-W / INTERNAL VIBRATION DAMPER, DOUBLE ARM-BRIDGE MOUNT,ALUMINUM, 35'	EA		1/1/2007	$0.00
0715577145	LIGHT POLE COMPLETE, SPECIAL, F&I, INTERNAL VIBRATING DAMPER,POLE BRIDGE MOUNT, ALUMINUM, 45'	EA	T	1/1/2007	$4,200.00
0715578145	LIGHT POLE COMPLETE, SPECIAL, F&I, INTERNAL VIBRATING DAMPER,POLE TOP MOUNT, ALUMINUM, 45'	EA	T	1/1/2007	$4,200.00

721- 70- AB PASSENGER SHELTER- ALUMINUM, PREFABRICATED

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Detail and/or Tech Spec Required
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **721- 70- AB** **PASSENGER SHELTER- ALUMINUM, PREFABRICATED EA**

A =
1 (Aluminum)
B =
1 (Pre-Fabricated)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

721- 74- A TRASH RECEPTACLE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **721- 74- A** **TRASH RECEPTACLE** **EA**

A = Type
1 (Pre-Fabricated)
2 (Precast)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0721 74 1	TRASH RECEPTACLE, PRE-FABRICATED	EA	T	1/1/2007		$1,694.42

721- 75- A BENCHES

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **721- 75- A** **BENCHES** **EA**

A = Type
1 (Pre-Fabricated)
2 (Precast)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0721 75 1	BENCHES, PRE-FABRICATED	EA	T	1/1/2007		$11,389.50

721- 77- BICYCLE PARKING RACK

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **721- 77-** **BICYCLE PARKING RACK** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0721 77	BICYCLE PARKING RACK	EA	T	1/1/2007		$500.00

721- 80- PEDESTRIAN PLAZA

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details May include pedestrian banners, drinking fountains, kiosk, and other items, as detailed in the plans. Tabulation summary required on all projects.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **721- 80-** **PEDESTRIAN PLAZA** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

730- 76-ABB STEEL CASING, OPEN TRENCH

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details a=1, 4, 5 valid for open cut trench applications only. For Jack & Bore, Directional Bore, and/or vibratory plowing, refer to Items 555, 556, and/or 557.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **730- 76-ABB** **STEEL CASING, OPEN TRENCH** **LF**

A = Operation
1 (Furnish & Install)
4 (Remove)
5 (Install)

BB = Size
01 (2")
02 (3")
03 (4")
04 (6")
05 (8")
06 (10")
07 (12")
08 (14")
09 (16")
10 (18")
11 (20")
12 (22")
13 (24")
14 (26")
15 (28")
16 (30")
17 (32")
18 (34")
19 (36")
20 (38")
21 (40")
22 (42")
23 (48")
24 (54")
25 (60")
26 (66")
27 (64")
28 (78")
29 (84")
30 (72")
31 (90")
32 (108")
33 (")
34 (")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0730 76101	STEEL CASING, OPEN TRENCH, F&I, 2"	LF		1/1/2007		$60.00
0730 76103	STEEL CASING, OPEN TRENCH, F&I, 4"	LF		1/1/2007		$72.94
0730 76104	STEEL CASING, OPEN TRENCH, F&I, 6"	LF		1/1/2007		$49.09
0730 76105	STEEL CASING, OPEN TRENCH, F&I, 8"	LF		1/1/2007		$80.00
0730 76107	STEEL CASING, OPEN TRENCH, F&I, 12"	LF		1/1/2007		$84.18
0730 76108	STEEL CASING, OPEN TRENCH, F&I, 14"	LF		1/1/2007		$94.18
0730 76109	STEEL CASING, OPEN TRENCH, F&I, 16"	LF		1/1/2007		$245.00

0730 76110	STEEL CASING, OPEN TRENCH, F&I, 18"	LF	1/1/2007	$100.39
0730 76111	STEEL CASING, OPEN TRENCH, F&I, 20"	LF	1/1/2007	$200.00
0730 76113	STEEL CASING, OPEN TRENCH, F&I, 24"	LF	1/1/2007	$278.47
0730 76116	STEEL CASING, OPEN TRENCH, F&I, 30"	LF	1/1/2007	$285.96
0730 76119	STEEL CASING, OPEN TRENCH, F&I, 36"	LF	1/1/2007	$300.00
0730 76122	STEEL CASING, OPEN TRENCH, F&I, 42"	LF	1/1/2007	$400.00
0730 76123	STEEL CASING, OPEN TRENCH, F&I, 48"	LF	1/1/2007	$645.20
0730 76124	STEEL CASING, OPEN TRENCH, F&I, 54"	LF	1/1/2007	$912.50
0730 76126	STEEL CASING, OPEN TRENCH, F&I, 66"	LF	1/1/2007	$500.00

730- 77- AA CASING SPACERS

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **730- 77- AA** **CASING SPACERS** **EA**

AA = Carrier Size
01 (2")
02 (3")
03 (4")
04 (6")

05 (8")
06 (10")
07 (12")
08 (14")
09 (16")
10 (18")
11 (20")
12 (22")
13 (24")
14 (26")
15 (28")
16 (30")
17 (32")
18 (34")
19 (36")
20 (38")
21 (40")
22 (42")
23 (48")
24 (54")
25 (60")
26 (66")
27 (64")
28 (78")
29(84")
30(72")

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0730 77 1	CASING SPACERS, 2" CARRIER SIZE	EA		1/1/2007		$119.30

730- 83- A WELL

Unit PW; EA; LF; M1 **Accuracy** Per Well; Each; Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details

For roadway or landscaping applications. Designer should determine if permits are required by local and/or state agencies.

When used for landscape applications, load pay item in landscape category. For Roadway applications, load item in roadway category.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Final Measure:
For Per Each/Well Items: Final tabulation of quantities must be recorded on proper form in computation book by location.
For Length Measurements: Record final measurements on proper form in computation book or field book. When measurements have been recorded in the field book, transfer final quantities to computation book.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 200 or 600 Roadway or Landscaping

Status

Struct. **730- 83- A** **WELL** **PW; EA; LF;**

A =
4 (4" Casing)
6 (6" Casing)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0730 83 4	WELL, TO 250' DEPTH, 4" CASING	PW	T	1/1/2007		$13,500.00
0730 83 6	WELL, TO 250' DEPTH, 6" CASING	PW	T	1/1/2007		$13,500.00

730- 84- A WELL (IN EXCESS OF 250 FEET DEPTH)

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **730- 84- A** **WELL (IN EXCESS OF 250 FEET DEPTH)** **LF**

A =
4 (4" Casing)
6 (6" Casing)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

730- 88- PUMPING SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **730- 88-** **PUMPING SYSTEM** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0730 88	PUMPING SYSTEM	EA	T	1/1/2008		$0.00

735- 74- AA TOLL PLAZA

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details Tabulation summary required on all projects. See 735-88-AA for modifications to existing toll plazas.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **735- 74- AA** **TOLL PLAZA** **LS/LS**

AA =
blank (single location)
1 (Location 1)
2 (Location 2)
3 (Location 3)
4 (Location 4)
5 (Location 5)
6 (Location 6)
7 (Location 7)
8 (Location 8)
9 (Location 9)
10 (Location 10)
11 (Location 11)
12 (Location 12)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0735 74	TOLL PLAZA, SINGLE LOCATION	LS	T	1/1/2007		$1,770,392.50
0735 74 1	TOLL PLAZA, LOCATION 1	LS	T	1/1/2007		$2,147,046.61
0735 74 2	TOLL PLAZA, LOCATION 2	LS	T	1/1/2007		$2,145,846.61

735- 79- **SERVICE PLAZA- SEWAGE AND WATER MODIFICATIONS**

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuantLS	COMP 700-050-05
	Construction	Refer to Comp Book	
Documentation	**Design**	Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	6, 7, 13	

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status **Inactive Structure**

Struct. **735- 79-** **SERVICE PLAZA- SEWAGE AND WATER MODIFICATIONS** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0735 79	SERVICE PLAZA- SEWAGE AND WATER MODIFICATIONS	LS	T	1/1/2007		$50,000.00

735- 80- SERVICE PLAZA RENOVATION

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuantLS	COMP 700-050-05
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status **Inactive Structure**

Struct. **735- 80-** **SERVICE PLAZA RENOVATION** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

735- 81- SERVICE/TOLL PLAZA- UNDERGROUND STRUCTURE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

Valid for Turnpike/Service Plaza use only.
Detail the size, depth, and any material requirements in the plans or specifications. If structure is to be similar to drainage structure, consider reference to Section 425 of the specifications.
For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design**

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **735- 81-** **SERVICE/TOLL PLAZA- UNDERGROUND STRUCTURE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

735- 82- A TOLL PLAZA CANOPY

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** yes

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status **Inactive Structure**

Struct. **735- 82- A** **TOLL PLAZA CANOPY** **SF**

A =
1 (Concrete)
2 (Aluminum)
3 (Steel)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

735- 84- A TOLL PLAZA ISLAND

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status **Inactive Structure**

Struct. **735- 84- A** **TOLL PLAZA ISLAND** **EA**

A =
1 (New)
2 (Modify)
3 (Remove)
4 (New With Stairwell)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

735- 86- A DETECTORS VEHICLE- TREADLE FRAME

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **735- 86- A** **DETECTORS VEHICLE- TREADLE FRAME** **EA**

A =
1 (Existing Concrete Pavement)
2 (New Concrete Pavement)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

735- 87- A UTILITY TUNNEL

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Inactive Structure**

Struct. **735- 87- A** **UTILITY TUNNEL** **LF**

A =
1 (7' X 7')
2 (6' X 8')
3 (7' X 8')

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

735- 88- AA TOLL PLAZA MODIFY EXISTING

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details For use on Turnpike and other toll roads. Tabulation summary required on all projects. For NEW plaza construction, see item 735-74-AA.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05
Construction Refer to Comp Book

Documentation **Design** Use a quantity of 1. No form required. Locate or define the scope of work involved on the plans.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **735- 88- AA** **TOLL PLAZA MODIFY EXISTING** **LS/LS**

AA =
blank (single location)
1 (Location 1)
2 (Location 2)
3 (Location 3)
4 (Location 4)
5 (Location 5)
6 (Location 6)
7 (Location 7)
8 (Location 8)
9 (Location 9)
10 (Location 10)
11 (Location 11)
12 (Location 12)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0735 88	TOLL PLAZA MODIFY EXISTING	LS	T	1/1/2007		$2,240,360.34
0735 88 1	TOLL PLAZA MODIFY EXISTING, LOCATION 1	LS	T	1/1/2008		$1,000,000.00
0735 88 2	TOLL PLAZA MODIFY EXISTING, LOCATION 2	LS	T	1/1/2008		$1,000,000.00

735- 89- AUTOMATIC WINDSHIELD WASHER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Detail and/or Tech Spec Required
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **735- 89-** **AUTOMATIC WINDSHIELD WASHER** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

736- 72- AA UTILITY RELOCATION- WATER

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes			
Details			
Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuantLS	COMP 700-050-05
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **736- 72- AA** **UTILITY RELOCATION- WATER** **LS/LS**

AA =
11 (Permanent)
12 (Temporary)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

736- 73- 1 **RAILROAD TRACK WORK**

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details Tabulation summary required on all projects.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **736- 73- 1** **RAILROAD TRACK WORK** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

736- 74- A **RAILROAD TURNOUT AND CROSSOVER**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **736- 74- A** **RAILROAD TURNOUT AND CROSSOVER** **EA**

A =
1 (No. 10)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

736- 75- RAILROAD CROSSING SIGNAL (CLASS II, TYPE 1)

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **736- 75-** **RAILROAD CROSSING SIGNAL (CLASS II, TYPE 1)** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

737- 70- A UTILITY LOCATE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This item is intended to be used for verification of utility locations designated in the plans, when necessary to specifically identify a location. This item is not to be used for incidental work covered by 7-11 of the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 6, 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **737- 70- A** **UTILITY LOCATE** **EA**

A =
1 (Underground)
2 (Under Pavement)
3 (Electronic - Horizontal)
4 (Underwater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0737 70 1	UTILITY LOCATE, UNDERGROUND	EA	T	1/1/2007		$147.64

737- 71- A ELECTRONIC UTILITY DESIGNATE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This item is intended to be used for verification/designating/marking of utility locations designated in the plans. Marker requirements to be provided by designer for specifications. Pay item not intended for searching unknown conditions. This item is not to be used for incidental work covered by 7-11 of the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of

payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)	6, 7, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **737- 71- A** **ELECTRONIC UTILITY DESIGNATE** **LF**

A =
1 (Underground)
2 (Under Pavement)
3 (Electronic - Horizontal)
4 (Underwater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

740- 71-ABC WALL

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **740- 71-ABC** **WALL** **LF**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Removal)
5 (Rehab) LS, BC=00

B = Material
1 (Drywall)
2 (Panel Wall)
3 (Block Wall)
4 (Other)

C = Height
1 (8')
2 (10')
3 (12')
4 (Other)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0740 71500	WALL, REHABILITATION	LS	T	1/1/2007		$45,253.94

741- 70-ABC TRAFFIC MONITORING SITE, VEHICLE SENSOR- CLASS II

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Refer to Specifications for use and application.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **741- 70-ABC** **TRAFFIC MONITORING SITE, VEHICLE SENSOR- CLASS II** **EA**

A = Operation

1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

B = Vehicle Sensor Type
1 (Type I)
2 (Type II)

C = Sensor Length
1 (Half Lane Width)
2 (Full Lane Width)
3 (Non-Intrusive)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0741 70111	TMS VEHICLE SENSOR, CLASS II, F&I, TYP 1, 1/2 LN	EA		1/1/2007		$1,142.60
0741 70112	TMS VEHICLE SENSOR, CLASS II, F&I, TYP 1, FULL LANE WIDTH	EA		1/1/2007		$5,000.00
0741 70121	TMS VEHICLE SENSOR, CLASS 2, F&I, TYP II, HALF LANE WIDTH	EA		1/1/2007		$975.00
0741 70123	TMS VEHICLE SENSOR, CLASS 2, F&I, TYPE II, NON INTRUSIVE	EA		1/1/2007		$1,600.00

742- 70- AB TRAFFIC MONITORING SITE, WEIGH-IN-MOTION ELECTRONICS ASSEMBLY

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **742- 70- AB** **TRAFFIC MONITORING SITE, WEIGH-IN-MOTION ELECTRONICS ASSEMBLY** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Remove)

B = Weight Sensor Type
1 (Bending Plate)
2 (Piezoelectric)
3 (Capacitance)
4 (Combined Types)
5 (Other)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

743- 70- AB	**TRAFFIC MONITORING SITE, VEHICLE SPEED/CLASSIFICATION UNIT**				
	Unit	AS	**Accuracy**	Assembly	**PlanQuantity?** no
Notes					
Details	Refer to Specifications for use and application.				
Related Items	**Required**		**Recommended**		
Forms	**Design**	SHTabQuant	COMP 700-050-03		
	Construction	Refer to Comp Book			
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.			
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).			
References	**PPM Chapter**				
	Other				
	Standards				
	Specifications				
	Prep & Doc Manual Chapter(s)	7, 13			

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct.	**743- 70- AB**	**TRAFFIC MONITORING SITE, VEHICLE SPEED/CLASSIFICATION UNIT**	**AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

B = Assembly Component
1 (Electronics Unit With Equipment Cable)
2 (Electronics Unit Only)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0743 70 11	TMS VEHICLE SPEED/CLASS. UNIT, F&I, ELECTRONICS UNIT WITH EQUIPMENT CABLE	AS		1/1/2007		$3,535.36

744- 70- AB TRAFFIC MONITORING SITE, SOLAR POWER UNIT

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details Refer to Specifications for use and application.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **744- 70- AB** **TRAFFIC MONITORING SITE, SOLAR POWER UNIT** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Mounting
1 (New Pole)
2 (Existing Pole)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0744 70 11	TMS SOLAR POWER UNIT, F&I, NEW POLE	EA		1/1/2007		$4,824.39

745- 70- AB TRAFFIC MONITORING SITE, INDUCTIVE LOOP ASSEMBLY

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details Refer to Specifications for use and application.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **745- 70- AB** **TRAFFIC MONITORING SITE, INDUCTIVE LOOP ASSEMBLY** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Number Of Loops Per Lane
1 (One)
2 (Two)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0745 70 11	TMS INDUCTIVE LOOP ASSEMBLY, F&I, 1 LOOP / LANE	AS		1/1/2007		$1,094.19
0745 70 12	TMS INDUCTIVE LOOP ASSEM, F&I, 2 LOOPS / LANE	AS		1/1/2007		$1,003.57

746- 7A-BCD TRAFFIC MONITORING SITE, CABINET

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Refer to Specifications for use and application.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **746- 7A-BCD** **TRAFFIC MONITORING SITE, CABINET** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BCD=blank
4 (Modify) BCD=blank
5 (Relocate) BCD=blank

B = Size
1 (Type III)
2 (Type IV)
3 (Type V)

C = Mounting
1 (Base)
2 (Pole)
3 (Pedestal)

D = Backplane
1 (One)
2 (Two)
3 (None)

Notes Existing Specs apply for A=1-3; Plan Detail and/or Tech Spec Required for A=4 or 5

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0746 41222	TMS CABINET,F&I, TYPE IV, POLE MNT, 2 BACKPLANE	EA		1/1/2007		$5,000.00
0746 71111	TMS CABINET, F&I, TYPE III, BASE MOUNT, 1 BACKPLANE	EA		1/1/2007		$3,182.28
0746 71112	TMS CABINET, F&I, TYPE III, BASE MOUNT, 2 BACKPLANE	EA		1/1/2007		$3,337.56
0746 71122	TRAFFIC MONITORING SYSTEM CABINET, F&I, TYPE III, POLE MOUNT, 2 BACKPLANE	EA		1/1/2007		$2,750.50
0746 71131	TMS CABINET,F&I, TYPE III, PEDESTAL MNT, 1 BACKPLANE	EA		1/1/2007		$2,511.10
0746 71132	TMS CABINET,F&I, TYPE III, PEDESTAL MNT, 2 BACKPLANE	EA		1/1/2007		$3,112.18
0746 71133	TMS CABINET,F&I, TYPE V, PEDESTAL MOUNT, NONE	EA		1/1/2007		$3,000.00
0746 71211	TMS CABINET, F&I, TYPE IV, BASE MOUNT, 1 BACKPLANE	EA		1/1/2007		$3,919.11

0746 71212	TMS CABINET,F&I, TYPE IV, BASE MNT, 2 BACKPLANE	EA	1/1/2007	$3,823.67
0746 71221	TRAFFIC MONITORING SYSTEM CABINET, F&I, TYPE IV, POLE MOUNT, 1 BACKPLANE	EA	1/1/2007	$4,000.00
0746 71222	TMS CABINET,F&I, TYPE IV, POLE MOUNT, 2 BACKPLANE	EA	1/1/2007	$2,405.89
0746 71311	TMS CABINET, F&I, TYPE V, BASE MOUNT, 1 BACKPLANE	EA	1/1/2007	$5,000.00
0746 71312	TMS CABINET, F&I, TYPE V, BASE MOUNT, 2 BACKPLANE	EA	1/1/2007	$5,000.00
0746 74	TMS CABINET, MODIFY	EA	1/1/2008	$5,000.00
0746 75	TMS CABINET, RELOCATE	EA	1/1/2007	$5,000.00

747- 70- AB TRAFFIC MONITORING SITE, MODEM

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes

Details Refer to Specifications for use and application.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **747- 70- AB** **TRAFFIC MONITORING SITE, MODEM** **AS**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Modify)

B = Item
1 (Modem)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0747 70 11	TMS MODEM, F&I	EA		1/1/2007		$2,180.34

750- 1- AB	ARCHITECTURAL- BUILDING			
	Unit LS/SF; LS/M2	**Accuracy** Lump Sum (Square Foot); Lump Sum (Square Meter)	**PlanQuantity?** no	
Notes	**Effective January 2007; replaces several Architectural Items.**			
Details	For all new/major rehab Architectural work. Includes all work (building, plumbing, electrical, water, HVAC, etc.) for a complete building. Tech Specs must detail all items, construction, and materials. For limited incidental work, see 751 items. Do not use for movable bridge structures; see 508 items and/or contact Movable Bridge Section. Do not use for Signing, Lighting, ITS, or Signalization. For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.			
Related Items	**Required**		**Recommended**	
Forms	**Design**	SHTabQuantLS	COMP 700-050-05	
	Construction	Refer to Comp Book		
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.		
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).		
References	**PPM Chapter**			
	Other			
	Standards			
	Specifications			
		Plan Detail and/or Tech Spec Required		
	Prep & Doc Manual Chapter(s)			

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **750- 1- AB** **ARCHITECTURAL- BUILDING** **LS/SF**

A= Operation
1 (New)
5 (Rehab)
6 (Remove)

B= Facility
1 (Rest Area)
2 (Welcome Center)
3 (Weigh Station)
4 (Maintenance Facility Building)
5 (Office)
6 (Parking Garage)
7 (Storage/Mechanical)
8 (Uncovered Storage)
9 (Other building)*
*Contact Architectural Section for approval

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0750 1 11	ARCHITECTURAL, BUILDING, NEW, REST AREA	LS	T	1/1/2007		$500.00
0750 1 13	ARCHITECTURAL, BUILDING, NEW, WEIGH STATION	LS	T	1/1/2007		$500.00
0750 1 17	ARCHITECTURAL, BUILDING, NEW, STORAGE/MECHANICAL	LS	T	1/1/2007		$500.00
0750 1 19	ARCHITECTURAL, BUILDING, NEW, OTHER BUILDING	LS	T	1/1/2007		$414.06
0750 1 53	ARCHITECTURAL, BUILDING, REHAB, WEIGH STATION	LS	T	1/1/2007		$123.28
0750 1 55	ARCHITECTURAL, BUILDING, REHAB, OFFICE	LS	T	1/1/2007		$500.00
0750 1 59	ARCHITECTURAL, BUILDING, REHAB, OTHER BUILDING	LS	T	1/1/2007		$500.00

751- 2- ARCHITECTURAL- ELECTRICAL/POWER

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes **Effective January 2007**

Details For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
Includes all work, hardware (lighting fixtures, generator, etc.), and materials for a complete electrical system, as detailed in the plans and/or tech specs.
Do not use for Signing, Lighting, ITS, or Signalization.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **751- 2-** **ARCHITECTURAL- ELECTRICAL/POWER** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0751 2	ARCHITECTURAL - ELECTRICAL/POWER	LS	T	1/1/2007		$50,000.00

751- 3- ARCHITECTURAL- TELEPHONE/COMMUNICATION

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes **Effective January 2007**

Details For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
DO NOT USE FOR: Signing, Lighting, ITS, or Signalization.

Includes all work, hardware, and materials for a complete Telephone/Communication system, as detailed in the plans and/or tech specs. Communications may include cable and/or fiber optic connections necessary for a complete system.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0800 Architectural

Status

Struct. **751- 3-** **ARCHITECTURAL- TELEPHONE/COMMUNICATION** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

751- 4- ARCHITECTURAL- WATER/SEWER INTERIOR

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes **Effective January 2007**

Details For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
Includes all work, hardware (sinks, toilets, water fountains), and materials for a complete water/sewer system for the interior of a building, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuantLS	COMP 700-050-05
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **751- 4-** **ARCHITECTURAL- WATER/SEWER INTERIOR** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

751- 5- ARCHITECTURAL- SANITARY SEWER/SEWAGE TREATMENT

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes **Effective January 2007**

Details For use on Architectural projects only. May be used with 750-1 (New/Rehab building) item for major items of work. For minor water/sewer work associated with building, include with 750-1 item.
Includes all work, hardware (lift station, treatment plant, etc.) for a complete water/sewer system for the exterior of a building, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuantLS	COMP 700-050-05
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **751- 5-** **ARCHITECTURAL- SANITARY SEWER/SEWAGE TREATMENT** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

751- 6- ARCHITECTURAL- HVAC

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes **Effective January 2007**

Details For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
Includes all work, hardware (AC, ventilation, and/or heating units), and materials for a complete HVAC system, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **751- 6-** **ARCHITECTURAL- HVAC** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

751- 10- **ARCHITECTURAL- ASBESTOS ABATEMENT**

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes **Effective January 2007; contact Architectural Section before opening, due to possible CARS contract.**

Details Check for possible CARS contract prior to using this item.
****
For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
Includes all work, hardware, and materials for Asbestos Abatement, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **751- 10-** **ARCHITECTURAL- ASBESTOS ABATEMENT** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

751- 11- A **ARCHITECTURAL- SPECIAL**

Unit **Accuracy** **PlanQuantity?**

Notes **Contact State Structures Design Office and/or State Architectural Section prior to use in any contract**

Details For use on Structural/Architectural plans only.

This item is intended to cover Special Architectural elements not included with "Buildings". Structural/Architectural details must be included in the plans or specifications.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

References
Construction
PPM Chapter
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **751- 11- A** **ARCHITECTURAL- SPECIAL**

A= Description
1 (Walls/Towers) LS/LS

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

751- 20- A ARCHITECTURAL- LIGHTNING PROTECTION SYSTEM

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes **Effective January 2007**

Details
For use on Architectural projects only. Not to be used with 750-1 (New/Rehab building) item.
For movable bridge structures, refer to Section 508 items. For all other applications, lightning protection is incidental to the item being protected.
Do not use for Signing, Lighting, ITS, or Signalization.
****
Includes all work, hardware, and materials for a complete lightning protection system, as detailed in the plans and/or tech specs.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms
Design SHTabQuantLS COMP 700-050-05
Construction Refer to Comp Book

Documentation
Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References
PPM Chapter
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **751- 20- A** **ARCHITECTURAL- LIGHTNING PROTECTION SYSTEM** **LS/LS**

A= Type of System
1 (Point Discharge)
2 (Static Charge Dissipation)
3 (Surge Suppression)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0751 20 1	ARCHITECTURAL -LIGHTNING PROTECTION SYSTEM, POINT OF DISCHARGE	LS	T	1/1/2007		$0.00
0751 20 3	ARCHITECTURAL -LIGHTNING PROTECTION SYSTEM, SURGE SUPPRESSION	LS	T	1/1/2007		$0.00

751- 30- A ARCHITECTURAL- PICNIC PAVILION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective January 2007**

Details For use on Architectural projects only.
Size (small/large) and details as shown on Design Standards.
Non-standard sizes must be approved by the Architectural Section, with a new pay item request.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards Index No. 530

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **751- 30- A** **ARCHITECTURAL- PICNIC PAVILION** **EA**

A= Size, per index
1 (Small)
2 (Large)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0751 30 1	ARCHITECTURAL, PICNIC PAVILION, SMALL	EA	T	1/1/2007		$5,000.00

764- 1- BOAT DOCK- FLOATING

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **764- 1-** **BOAT DOCK- FLOATING** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

764- 2- BOAT DOCK- GANGWAY

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
		Plan Detail and/or Tech Spec Required
	Prep & Doc Manual Chapter(s)	7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **764- 2-** **BOAT DOCK- GANGWAY** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

770- 75- A PRE-PASS SENSOR

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use at weigh/inspection stations only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**		
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status

Struct. **770- 75- A** **PRE-PASS SENSOR** **EA**

A= Location
1(Asphalt Embedded)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

770- 78- STATIC/WEIGH-IN-MOTION SCALE SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details The designer should details all requirements and components to be included in the system.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0800 Architectural

Status **Block Pending**

Struct. **770- 78-** **STATIC/WEIGH-IN-MOTION SCALE SYSTEM** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0770 78	STATIC / WEIGH-IN-MOTION SCALE SYSTEM	EA	T	1/1/2007		$2,016,666.67

770- 79- WEIGH STATION

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details The designer should detail all requirements and components to be included in the station.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status **Block Pending**

Struct. **770- 79-** **WEIGH STATION** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0770 79	WEIGH STATION	LS	T	1/1/2007		$4,461,633.33

775- 70- SCALE PIT STRUCTURES

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status **Inactive Structure**

Struct. **775- 70-** **SCALE PIT STRUCTURES** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

775- 72- SCALE FOUNDATION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0800 Architectural

Status **Inactive Structure**

Struct. **775- 72-** **SCALE FOUNDATION** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

780- 1- AB ITS ELECTRICAL POWER

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes

Details For use in providing electrical power service to ITS devices in the field. Installations of service assemblies can be either for overhead or underground service, in accordance with the details in the plans, or in Index 17736 of the Design Standards. A service assembly may include a weather head, conduit, service wire, a meter base, service disconnect, and a transient protection device.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter Vol 1, Chapter 7

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **780- 1- AB** **ITS ELECTRICAL POWER** **Mixed**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust & Modify)
6 (Remove and Dispose- Contractor takes ownership)

B= Type
1 (Service) AS
2 (Service Wire) LF
3 (Service Disconnect) EA

Notes Note: Mile (kilometer) units only valid with 6" or 8" stripes
Note: Accuracy for LF items is per Linear Foot, Mile items to 1/1000th of a mile, and Square Foot items to the nearest square foot.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0780 1 11	ITS ELECTRICAL POWER, F&I, SERVICE	AS		1/1/2007		$1,786.49
0780 1 12	ITS ELECTRICAL POWER, F&I, SERVICE WIRE	LF		1/1/2007		$2.49
0780 1 13	ITS ELECTRICAL POWER, F&I, SERVICE DISCONNECT	EA		1/1/2007		$1,151.06
0780 1 32	ITS ELECTRICAL POWER, INSTALL, SERVICE WIRE	LF		1/1/2007		$0.00
0780 1 41	ITS ELECTRICAL POWER, RELOCATE,SERVICE	AS		1/1/2007		$2,311.68
0780 1 42	ITS ELECTRICAL POWER, RELOCATE, SERVICE WIRE	LF		1/1/2007		$5.37
0780 1 43	ITS ELECTRICAL POWER, RELOCATE, SERVICE DISCONNECT	EA	T	1/1/2007		$500.00
0780 1 51	ITS ELECTRICAL POWER,ADJUST & MODIFY,SERVICE	AS		1/1/2007		$2,311.68
0780 1 52	ITS ELECTRICAL POWER, ADJUST & MODIFY,SERVICE WIRE	LF		1/1/2007		$5.37
0780 1 61	ITS ELECTRICAL POWER, REMOVE & DISPOSE, SERVICE	LF		1/1/2007		$800.00

0780 1 62	ITS ELECTRICAL POWER, REMOVE & DISPOSE, SERVICE WIRE	LF	1/1/2007	$5.37
0780 1 63	ITS ELECTRICAL POWER, REMOVE & DISPOSE, SERVICE DISCONNECT	EA	1/1/2007	$5.37

781- 2- AB ITS HIGHWAY ADVISORY RADIO

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

For installation along the roadway for the purpose of broadcasting traffic advisories to vehicle radios. The HAR installation consists of a radio antenna mounted on a pole, a control cabinet containing the transmitter, power supply, communication hardware, and conduit. The system includes a roadside HAR sign with flashing beacons to alert motorists that a message is being broadcast.
Transmitter wattage, siting information, and installation details should be noted in the plans. For temporary MAS systems during construction, refer to Maintenance Of Traffic, Section 102 items.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 7

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **781- 2- AB** **ITS HIGHWAY ADVISORY RADIO** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B= Power Type
1 (Solar)
2 (AC)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0781 2 12	ITS HIGHWAY ADVISORY RADIO, F&I, AC POWER	EA		7/1/2006		$69,959.34
0781 2 41	ITS HIGHWAY ADVISORY RADIO, RELOCATE, SOLAR POWER	EA		7/1/2006		$5,000.00
0781 2 42	ITS HIGHWAY ADVISORY RADIO, RELOCATE, AC	EA		7/1/2006		$25,000.00
0781 2 52	ITS HIGHWAY ADVISORY RADIO, ADJUST/MODIFY, AC	EA		7/1/2006		$4,500.00

781- 3-ABC ITS ROAD WEATHER INFORMATION SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective July 07 Letting.**

Details For installation at the roadside, on bridges or other new or existing structures to provide real-time weather data on temperature, humidity, precipitation, wind speed, and direction, and visibility. The RWIS is furnished with the weather instruments necessary to produce the readings desired and collects, stores, and processes the data for transmittal to the transportation management center (TMS). An RWIS with one central monitoring site can serve multiple field installations. The weather sensors are typically mounted on either a dedicated RWIS tower or existing structures.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 7

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **781- 3-ABC** **ITS ROAD WEATHER INFORMATION SYSTEM** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
5 (Adjust /Modify) BC=00

B= Equipment Type
1 (Field Hardware)
2 (Central Monitoring/Processing Equipment)

C= Sensor Mounting
1 (New Tower Included)
2 (Mounted to Existing Structure)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

781- 1A-BCD ITS DYNAMIC MESSAGE SIGN

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

For installation along interstate, expressway, or limited access corridors for communicating traffic advisories to motorists.
Structure Types: Mid-span- across one direction of travel, full span- across all lanes, or cantilever- at the roadside.
Sign Type: Front display surface, with either line matrix- pixels arranged in rows, or full matrix- pixels fully covering the surface.
Designer should note the size of sign, structure, and installation details in the plans.

NOTE:
Furnish & Install: includes the furnishing of both the truss/structure and sign
Furnish: Furnish the sign only (Signs are available on State purchase contracts)
Install: Install sign on existing structure
Furnish & Install structure, Install Sign: When sign is provided by FDOT (may have been purchased on state contract, or relocated from another location). Contractor must provide/construct truss, install sign.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 7

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **781- 1A-BCD** **ITS DYNAMIC MESSAGE SIGN** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish) *
3 (Install) *Sign on existing structure
4 (Relocate) *Sign to another existing structure
5 (Adjust /Modify)
9 (Furnish & Install structure; Install Sign)

B=Sign Type
1 (LED Line Matrix)
2 (LED Full Matrix)

C=Sign Support Structure
1 (Mid-span)
2 (Full Span)
3 (Cantilever) D=1, 2, or 3 only

4 (Sign Only) no structure; D=0

D= Horizontal Structure Length
0 (No Structure) when C=4
1 (0' to 40')
2 (41' to 60')
3 (61' to 80')
4 (81' to 100')
5 (101' to 120')
6 (121 to 140')
7 (141 to 161')
8 (161 to 180')
9 (greater than 180')

Notes See detail for Furnish/Install options

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0781 11213	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, MID SPAN, TRUSS - 61 - 80'	EA		1/1/2007		$229,913.50
0781 11214	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, MID SPAN, TRUSS - 81 - 100'	EA		1/1/2007		$226,747.80
0781 11215	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, MID SPAN, TRUSS - 101 - 120'	EA		1/1/2007		$244,269.05
0781 11216	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, MID SPAN, TRUSS - 121 - 140'	EA		1/1/2007		$300,000.00
0781 11217	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, MID SPAN, TRUSS - 141 - 160'	EA		1/1/2007		$300,000.00
0781 11222	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, FULL SPAN, TRUSS - 41 - 60'	EA		1/1/2007		$120,000.00
0781 11223	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, FULL SPAN, TRUSS - 61 - 80'	EA		1/1/2007		$150,000.00
0781 11225	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, FULL SPAN, TRUSS - 101 - 120'	EA		1/1/2007		$225,000.00
0781 11227	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, FULL SPAN, TRUSS - 141 - 161'	EA		1/1/2007		$300,000.00
0781 11229	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, FULL SPAN, TRUSS - GREATER THAN 180'	EA		1/1/2007		$305,750.00
0781 11231	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, CANTILEVER, TRUSS - 0 - 40'	EA		1/1/2007		$173,094.00
0781 11232	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, CANTILEVER, TRUSS - 41 - 60'	EA		1/1/2007		$157,705.76

0781 11233	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX, CANTILEVER, TRUSS - 61 - 80'	EA	1/1/2007	$300,000.00
0781 11240	ITS DYNAMIC MESSAGE SIGN, F&I, LED FULL MATRIX,SIGN ONLY,NO STRUCTURE	EA	1/1/2007	$300,000.00
0781 12240	ITS DYNAMIC MESSAGE SIGN, FURNISH, LED FULL MATRIX, SIGN ONLY, NO STRUCTURE	EA	1/1/2007	$83,150.00
0781 13213	ITS DYNAMIC MESSAGE SIGN, INSTALL, LED FULL MATRIX, MID SPAN,TRUSS - 61 - 80'	EA	1/1/2007	$5,000.00
0781 13215	ITS DYNAMIC MESSAGE SIGN, INSTALL, LED FULL MATRIX, MID SPAN,TRUSS - 101 - 120'	EA	1/1/2006	$5,000.00
0781 13216	ITS DYNAMIC MESSAGE SIGN, INSTALL, LED FULL MATRIX MID SPAN,TRUSS - 121 - 140'	EA	1/1/2006	$5,000.00
0781 13217	ITS DYNAMIC MESSAGE SIGN, INSTALL, LED FULL MATRIX MID SPAN,TRUSS - 141 - 160'	EA	1/1/2006	$5,000.00
0781 13228	ITS DYNAMIC MESSAGE SIGN, INSTALL, LED FULL MATRIX, FULL SPAN, 161-180'	EA	1/1/2007	$5,000.00
0781 13231	ITS DYNAMIC MESSAGE SIGN, INSTALL, LED - FULL MATRIX, CANTILEVER, 0 - 40'	EA	1/1/2007	$5,000.00
0781 13232	ITS DYNAMIC MESSAGE SIGN, INSTALL, LED FULL MATRIX, CANTILEVER,TRUSS - 41 - 60'	EA	1/1/2007	$5,000.00
0781 13240	ITS DYNAMIC MESSAGE SIGN, INSTALL, LED FULL MATRIX, SIGN ONLY, NO STRUCTURE	EA	1/1/2007	$3,130.54
0781 14240	ITS DYNAMIC MESSAGE SIGN, RELOCATE, LED FULL MATRIX, SIGN ONLY	EA	1/1/2007	$45,000.00
0781 19213	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, MID SPAN, TRUSS - 61 - 80'	EA	1/1/2007	$100,000.00
0781 19214	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, MID SPAN, TRUSS - 81 - 100'	EA	1/1/2007	$100,000.00
0781 19215	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, MID SPAN, TRUSS - 101 TO 120'	EA	1/1/2007	$100,000.00
0781 19225	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, FULL SPAN, TRUSS - 101 TO 120'	EA	1/1/2007	$145,000.00

0781 19228	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, FULL SPAN, TRUSS - 161 TO 180'	EA	1/1/2007	$175,000.00
0781 19229	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, FULL SPAN, TRUSS - GREATER THAN 180'	EA	1/1/2007	$230,000.00
0781 19231	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, CANTILEVER, TRUSS - 0-40'	EA	1/1/2007	$80,000.00
0781 19232	ITS DYNAMIC MESSAGE SIGN, F&I TRUSS, INSTALL SIGN, LED FULL MATRIX, CANTILEVER, TRUSS - 41 - 60'	EA	1/1/2007	$100,000.00

782- 1- AB ITS CCTV CAMERA

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For installations along the roadway or intersections, to provide video of traffic movements. Includes mounting hardware, cabling, and power supply. Cameras can be dome style enclosures, or "barrel type" units with external positioners. Either unit can be pressurized to reduce the effects of moisture, dust, and other contaminants.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 7

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **782- 1- AB** **ITS CCTV CAMERA** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B= Type
1 (Dome enclosure, pressurized)
2 (External positioner, pressurized)
3 (Dome enclosure, non-pressurized)
4 (External positioner, non-pressurized)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0782 1 11	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - PRESSURIZED	EA		1/1/2007		$6,489.30
0782 1 13	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON PRESSURIZED	EA		1/1/2007		$4,155.00
0782 1 31	ITS CCTV CAMERA, INSTALL, DOME ENCLOSURE, PRESSURIZED	EA		1/1/2007		$3,895.99
0782 1 41	ITS CCTV CAMERA, RELOCATE, DOME ENCLOSURE, PRESSURIZED	EA		1/1/2007		$2,858.71
0782 1 43	ITS CCTV CAMERA, RELOCATE, DOME ENCLOSURE, NON - PRESSURIZED	EA		1/1/2007		$3,000.00

782- 2-ABC ITS VIDEO DISPLAY

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use in the Transportation Management Center (TMC) to display video from the CCTV cameras in the field, and for displaying maps, graphics, traffic counts, and other visuals. Video Display cubes can be stacked to form a wall display. Other monitors are positioned in the room or on the operator's desktops for control purposes.
The video controller receives the incoming video signals and arranges them on the various displays.
Display types, room layout, and installation details must be noted in the plans.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):* 0550 ITS

Status

Struct. **782- 2-ABC** **ITS VIDEO DISPLAY** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B= Component

1 (Cube for video wall) C=2
2 (Workstation) C=1 or 3
3 (Monitor)
4 (Controller) C=0

C= Technology
1 (LCD- Liquid Crystal Display)
2 (Rear Projection)
3 (CRT- Cathode Ray Tube)
4 (Special)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0782 2121	ITS VIDEO DISPLAY, F&I, WORK STATION, LIQUID CRYSTAL DISPLAY	EA		1/1/2007		$2,000.00
0782 2131	ITS VIDEO DISPLAY, F&I, MONITOR, LIQUID CRYSTAL DISPLAY	EA		1/1/2007		$3,468.94
0782 2140	ITS VIDEO DISPLAY, F&I, CONTROLLER	EA		1/1/2007		$5,000.00

782- 3- A ITS REST AREA INFORMATION SYSTEMS

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use in highway rest areas for the display of traffic conditions and other information for the traveling public. The system is rack mounted and has the necessary processing power, memory, network connection, and video output capability to provide images for LCD displays in the lobby or concourse area of rest plazas.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design**
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **782- 3- A** **ITS REST AREA INFORMATION SYSTEMS** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust & Modify)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

783- 1-ABC ITS FIBER OPTIC CABLE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details

For use in fiber optic networks that support ITS devices and their connection to communication hubs, transportation management centers, and related facilities.
Use "overhead" for installations involving bridges and other aboveground structures. Use "underground" for cable placed in buried conduit along the roadside.
****
REMOVE (A=6): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. Contractor takes ownership (remove & dispose), unless otherwise indicated in the plans or specs.
REMOVE & STOCKPILE (A=7): For cable to be removed, detail location and size of cable (approximate number of fibers) to be removed. FDOT retains ownership of cable. Detail in plans location for stockpile, i.e. Maintenance yard.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter** Vol 1, Chapter 7

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **783- 1-ABC** **ITS FIBER OPTIC CABLE** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove) BC=00
7 (Remove and Stockpile) BC=00

B= Location
1 (Overhead)
2 (Underground)

C= Number of Fibers in Cable
1 (2 to 12)
2 (13 to 48)
3 (49 to 96)

4 (97 to 144)

Notes *Remove item may require plan details and/or tech spec

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0783 1111	ITS FIBER OPTIC CABLE, F& I, OVERHEAD, 2 -12 FIBERS	LF		1/1/2007		$3.59
0783 1113	ITS FIBER OPTIC CABLE, F& I, OVERHEAD, 49-96 FIBERS	LF		1/1/2007		$4.00
0783 1121	ITS FIBER OPTIC CABLE, F& I, UNDERGROUND, 2 -12 FIBERS	LF		1/1/2007		$2.25
0783 1122	ITS FIBER OPTIC CABLE, F& I, UNDERGROUND, 13 -48 FIBERS	LF		1/1/2007		$2.86
0783 1123	ITS FIBER OPTIC CABLE, F& I, UNDERGROUND, 49 - 96 FIBERS	LF		1/1/2007		$2.71
0783 1212	ITS FIBER OPTIC CABLE, FURNISH, OVERHEAD, 13 -48 FIBERS	LF		1/1/2007		$4.00
0783 1323	ITS FIBER OPTIC CABLE, INSTALL, UNDERGROUND, 49 - 96 FIBERS	LF		1/1/2007		$2.00
0783 1411	ITS FIBER OPTIC CABLE, RELOCATE, OVERHEAD, 2 -12 FIBERS	LF		1/1/2007		$2.00
0783 1412	ITS FIBER OPTIC CABLE, RELOCATE, OVERHEAD, 13 -48 FIBERS	LF		1/1/2007		$9.13
0783 1413	ITS FIBER OPTIC CABLE, RELOCATE, OVERHEAD, 49 - 96 FIBERS	LF		1/1/2007		$9.62
0783 1421	ITS FIBER OPTIC CABLE,RELOCATE,UNDERGROUND,2-12 FIBERS	LF		1/1/2007		$3.37
0783 1422	ITS FIBER OPTIC CABLE, RELOCATE, UNDERGROUND, 13 -48 FIBERS	LF		1/1/2007		$3.63
0783 1423	ITS FIBER OPTIC CABLE, RELOCATE, UNDERGROUND, 49 - 96 FIBERS	LF		1/1/2007		$5.43
0783 1512	ITS FIBER OPTIC CABLE, ADJUST/MODIFY, OVERHEAD, 13-48 FIBERS	LF		9/1/2007		$0.00
0783 1522	ITS FIBER OPTIC CABLE, ADJUST/MODIFY,UNDERGRND,13-48 FIBERS	LF		9/1/2007		$0.00
0783 1523	ITS FIBER OPTIC CABLE, ADJUST & MODIFY, UNDERGROUND, 49 - 96 FIBERS	LF		1/1/2007		$5.43
0783 1600	ITS FIBER OPTIC CABLE, REMOVE	LF		1/1/2007		$1.08
0783 1700	ITS FIBER OPTIC CABLE, REMOVE & STOCKPILE	LF		1/1/2007		$1.00

783- 2- AB ITS FIBER OPTIC CONNECTION

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use in fiber optic networks where segments of fiber optic cable must be spliced together, or when cables must be terminated at the end of a segment. Note that each

connection involves the fusing of individual optical fibers in a cable. Payment "each" is for each FIBER to be connected.
Type of connection must be noted in the plans.

Related Items **Required** **Recommended** 783-3

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **783- 2- AB** **ITS FIBER OPTIC CONNECTION** **EA**

A= Operation
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B= Type
1 (Splice)
2 (Termination)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0783 2 31	ITS FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA		1/1/2007		$70.71
0783 2 32	ITS FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA		1/1/2007		$101.44
0783 2 41	ITS FIBER OPTIC CONNECTION, RELOCATE, SPLICE	EA		1/1/2007		$50.00
0783 2 51	ITS FIBER OPTIC CONNECTION,ADJUST/MODIFY, SPLICE	EA		1/1/2007		$50.00
0783 2 52	ITS FIBER OPTIC CONNECTION,ADJUST/MODIFY, TERMINATION	EA		1/1/2007		$50.00

783- 3- AB **ITS FIBER OPTIC CONNECTION HARDWARE**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use in fiber optic networks, where segments of cable must be spliced together.
This item includes hardware and incidental materials for splices; payment for splicing

individual fibers is made under 783-2.

For B=8 (Patch Cord), tech spec needed to describe the patch cord requirements. FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Ensure that the plans/specs clearly define if separate payment will be made for patch cords. Otherwise, payment will be considered as incidental to hardware being installed. When multiple cords/cables are needed, use a tabulation sheet in the plans to clearly Identify the number of pairs and length of each cord/cable.

Related Items	**Required**		**Recommended**	783-2
Forms	**Design**	SHTabQuant	COMP 700-050-03	
	Construction	Refer to Comp Book		
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.		
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).		
References	**PPM Chapter**			
	Other			
	Standards			
	Specifications			
	Prep & Doc Manual Chapter(s)			

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. 783- 3- AB ITS FIBER OPTIC CONNECTION HARDWARE EA

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B=Component
1 (Splice Enclosure)
2 (Splice Tray)
3 (Preterminated Connector Assembly)
4 (Buffer Tube Fan Out Kit)
5 (Patch Panel, Preterminated)
6 (Patch Panel, Field Terminated)
7 (Connector Panel)
8 (Patch Cord)* Tech Spec needed; see BOE detail

Notes *B=8: Tech Spec needed. Coordinate the use of this item with ITS Office.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0783 3 11	ITS FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA		1/1/2007		$1,151.02
0783 3 12	ITS FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE, TRAY	EA		1/1/2007		$56.75
0783 3 13	ITS FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA		1/1/2007		$71.46

0783 3 14	ITS FIBER OPTIC CONNECTION HARDWARE, F&I, BUFFER TUBE FAN OUT KIT	EA	1/1/2007	$58.31
0783 3 15	ITS FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL, PRETERMINATED	EA	1/1/2007	$1,352.38
0783 3 16	ITS FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL. FIELD TERMINATED	EA	1/1/2007	$757.37
0783 3 17	ITS FIBER OPTIC CONNECTION HARDWARE, F&I, CONNECTOR PANEL	EA	1/1/2007	$106.04
0783 3 32	ITS FIBER OPTIC CONNECTION HARDWARE, INSTALL, SPLICE TRAY	EA	1/1/2007	$300.00
0783 3 41	ITS FIBER OPTIC CONNECTION HARDWARE, RELOCATEI, SPLICE ENCLOSURE	EA	7/1/2006	$800.00
0783 3 45	ITS FIBER OPTIC CONNECTION HARDWARE, REL, PATCH PANEL, PRETERMINATED	EA	1/1/2007	$900.00
0783 3 51	ITS FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY, SPLICE ENCLOSURE	EA	1/1/2007	$531.95

783- 4- AB ITS CONDUIT

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **Valid through 6-30-08; replaced by 783-4-1AB**

Details For fiber optic cable and ITS devices only.
Underground: to be used when conduit is installed prior to placement of pavement, or where it does not interfere with existing pavement.
Underpavement Sawcut: to be used only when sawcutting is necessary for location under EXISTING PAVEMENT.

NOTE: Per specification, length of conduit includes Electronic Locate system (transmitter and reveiver).

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **783- 4- AB** **ITS CONDUIT** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish) B=0
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) B=0

B= Location
1 (Aboveground)
2 (Underground)
3 (Underpavement Sawcut) Note: to be used only when sawcutting is necessary
9 (Special)*

Notes *Special to be used only with approval of the ITS Office
Plan Details and/or Tech Specs needed for Install, Relocate, Adjust/Modify, and Remove items.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0783 4 11	ITS CONDUIT, F& I, ABOVEGROUND	LF		1/1/2007		$26.84
0783 4 12	ITS CONDUIT, F& I, UNDERGROUND	LF		1/1/2007		$3.30
0783 4 13	ITS CONDUIT, F& I, UNDER EXISTING PAVEMENT SAWCUT	LF		1/1/2007		$25.84
0783 4 20	ITS CONDUIT, FURNISH	LF		7/31/2007		$5.00
0783 4 32	ITS CONDUIT, INSTALL, UNDERGROUND	LF		1/1/2007		$0.00
0783 4 42	ITS CONDUIT, RELOCATE, UNDERGROUND	LF		1/1/2007		$5.00
0783 4 52	ITS CONDUIT, ADJUST/MODIFY, UNDERGROUND	LF		1/1/2007		$3.52
0783 4 60	ITS CONDUIT, REMOVE AND DISPOSE	LF		1/1/2007		$4.00

783- 4-1AB ITS CONDUIT

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **New Item effective 7-1-08; replaces 783-4-AB**

Details For fiber optic cable and ITS devices only.
Underground: to be used when conduit is installed prior to placement of pavement, or where it does not interfere with existing pavement.
Underpavement Sawcut: to be used only when sawcutting is necessary for location under EXISTING PAVEMENT.

Note: Specification change effective 7-1-08 letting has separate payment for Electronic Locate Transmitter & Receiver. Refer to specification for payment details.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **783- 4-1AB** **ITS CONDUIT** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish) B=0
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) B=0

B= Location
1 (Aboveground)
2 (Underground)
3 (Underpavement Sawcut) Note: to be used only when sawcutting is necessary
9 (Special)*

Notes *Special to be used only with approval of the ITS Office
Plan Details and/or Tech Specs needed for Install, Relocate, Adjust/Modify, and Remove items.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0783 4111	ITS CONDUIT, F& I, ABOVEGROUND	LF		7/1/2008		$23.92
0783 4112	ITS CONDUIT, F& I, UNDERGROUND	LF		7/1/2008		$2.77
0783 4113	ITS CONDUIT, F& I, UNDER EXISTING PAVEMENT SAWCUT	LF		7/1/2008		$44.62
0783 4142	ITS CONDUIT, RELOCATEI, UNDERGROUND	LF		7/1/2008		$5.50
0783 4152	ITS CONDUIT, ADJUST/MODIFYI, UNDERGROUND	LF		7/1/2008		$3.70
0783 4160	ITS CONDUIT, REMOVE&DISPOSE	LF		7/1/2008		$3.70

783- 5- A ITS PULL BOX FOR FIBER OPTIC

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use in fiber optic networks as an access point for moving cable into position during installation. Refer to specificaion for size, materials, and other details for box.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **783- 5- A** **ITS PULL BOX FOR FIBER OPTIC** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0783 5 1	ITS PULL BOX FOR FIBER OPTIC CABLE, FURNISH AND INSTALL	EA		1/1/2007		$918.03
0783 5 4	ITS PULL BOX FOR FIBER OPTIC CABLE, RELOCATE	EA		1/1/2007		$300.00
0783 5 5	ITS PULL BOX FOR FIBER OPTIC CABLE, ADJUST AND MODIFY	EA		1/1/2007		$420.00

783- 6- A ITS SPLICE BOX FOR FIBER OPTIC

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use in fiber optic networks as a housing for the connection or termination of cable segments. Refer to specificaion for size, materials, and other details for box.

REMOVE AND DISPOSE (A=6): Detail size and location in the plans. Contractor assumes ownership after removal- for disposal by the contractor.
REMOVE AND STOCKPILE (A=7): Detail size and location in the plans. FDOT retains ownership of the item. Detail location for stockpile, i.e. Maintenance yard or project Right of way.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **783- 6- A** **ITS SPLICE BOX FOR FIBER OPTIC** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove & Dispose)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0783 6 1	ITS SPLICE BOX FOR FIBER OPTIC CABLE, F & I	EA		1/1/2007		$2,301.16
0783 6 4	ITS SPLICE BOX FOR FIBER OPTIC CABLE, RELOCATE	EA		1/1/2007		$300.00
0783 6 5	ITS SPLICE BOX FOR FIBER OPTIC CABLE, ADJUST/ MODIFY	EA		1/1/2007		$551.65
0783 6 6	ITS SPLICE BOX FOR FIBER OPTIC CABLE, REMOVE AND DISPOSE	EA		1/1/2007		$500.00

783- 7- A ITS PULL AND JUNCTION BOX

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

For use on ITS projects. To be used for non-fiber optic wiring needs (power, communication, etc for ITS systems). Full details/specs are needed for this item. Designer may refer to other specification sections, as needed to detail required box.

NOTE: THIS ITEM IS NOT covered by current 783 specification.

For Pull/Junction or Splice Box for Fiber Optics, refer to items 783-5 and 783-6, as detailed in the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.
****
REMOVE AND STOCKPILE (A=7): Detail size and location in the plans. FDOT retains ownership of the item. Detail location for stockpile, i.e. Maintenance yard or project Right of way.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design**
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **783- 7- A** **ITS PULL AND JUNCTION BOX** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
7 (Remove and Stockpile)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0783 7 1	ITS PULL & JUNCTION BOX, FURNISH AND INSTALL	EA	T	1/1/2007		$547.75
0783 7 3	ITS PULL & JUNCTION BOX, INSTALL	EA	T	1/1/2007		$0.00
0783 7 4	ITS PULL & JUNCTION BOX, RELOCATE	EA	T	1/1/2007		$400.00
0783 7 5	ITS PULL & JUNCTION BOX, ADJUST/MODIFY	EA	T	1/1/2007		$400.00
0783 7 7	ITS PULL & JUNCTION BOX, REMOVE & STOCKPILE	EA	T	1/1/2007		$200.00

783- 8- A ITS MULTI-CONDUCTOR COMMUNICATION CABLE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details

For use on ITS projects. Tech Spec and/or plan detail needed to specify material requirements and/or number of conductors. Primarily for communications, may carry incidental low voltage device power. When multiple cables are needed, use a tabulation sheet in the plans to clearly Identify the number of pairs and length of each cable. Record the total length for payment under this pay item.

Note: FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed. Refer to 783-3 for patch cords.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**		
	Construction		
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **783- 8- A** **ITS MULTI-CONDUCTOR COMMUNICATION CABLE** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0783 8 1	ITS MULTI-CONDUCTOR COMMUNICATION CABLE, F&I	LF	T	1/1/2007		$3.04
0783 8 3	ITS MULTI-CONDUCTOR COMMUNICATION CABLE, INSTALL	LF	T	1/1/2007		$3.00
0783 8 4	ITS MULTI-CONDUCTOR COMMUNICATION CABLE, RELOCATE	LF	T	1/1/2007		$3.00

783- 9- AB ITS LOCATE SYSTEM ELECTRONIC EQUIPMENT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective July 08 letting, with updated specification.**

Details For use on ITS projects. This pay items is intended for the electronic equipment used to detect buried conduit and other underground duct, cable, and infrastructure. The electronics used for this activity typically includes a portable transmitter, a hand-held receiver, and electronic markers that cane be used together to determine the location of the underground utilities and other objects.
Special configuration and/or installation details should be detailed in the plans on a project-by project basis.

Electronic Box Marker: Specifications call for one electronic box marker in each pull box and splice box buried below finish grade. Additional markers may be used for existing ITS

boxes within project limits.

NOTE: This item effective with the July 2008 letting; for projects let prior to July 2008, transmitter and receiver are included in the ITS conduit price, per specifications.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction		
Documentation	**Design**		
	Construction		
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **783- 9- AB** **ITS LOCATE SYSTEM ELECTRONIC EQUIPMENT** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B = Equipment Type
1 (Transmitter)
2 (Receiver)
3 (Electronic Box Marker) Note: Do not use this item for Electronic Route Markers

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0783 9 11	ITS LOCATE SYSTEM ELECTRONIC EQUIPMENT, TRANSMITTER	EA		7/1/2008		$5,000.00
0783 9 12	ITS LOCATE SYSTEM ELECTRONIC EQUIPMENT, RECEIVER	EA		7/1/2008		$5,000.00
0783 9 13	ITS LOCATE SYSTEM ELECTRONIC EQUIPMENT, BOX MARKER	EA		7/1/2008		$50.00

784- 1- A **ITS MANAGED FIELD ETHERNET SWITCH**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use in ITS communication networks to provide wire-speed fast Ethernet connections for ITS field devices. The Ethernet switch is hardened to withstand harsh environments and provides transmission rates of 100 megabits per second from the remote ITS device installation location to the ITS network trunk interconnection point.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03

	Construction	Refer to Comp Book
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **784- 1- A** **ITS MANAGED FIELD ETHERNET SWITCH** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) Contractor takes ownership

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0784 1 1	ITS MANAGED FIELD ETHERNET SWITCH, F&I	EA		1/1/2007		$2,280.55
0784 1 3	ITS MANAGED FIELD ETHERNET SWITCH, INSTALL	EA		1/1/2007		$500.00
0784 1 4	ITS MANAGED FIELD ETHERNET SWITCH, RELOCATE	EA		1/1/2007		$950.00
0784 1 6	ITS MANAGED FIELD ETHERNET SWITCH, REMOVE & DISPOSE, CONTRACTOR TAKE OWNERSHIP	EA		1/1/2007		$500.00

784- 2- A ITS DEVICE SERVER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use when an ITS field device must connect to an Ethernet network but the device is only equipped with serial communication ports (i.e. EIA-232, EIA-422, or EIA-485 connections). Field devices that may require use of device servers include highway advisory radio field assemblies, microwave vehicle detection system devices, magnetic traffic detection systems, road weather information system stations, and other low-speed data output devices.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities	

sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **784- 2- A** **ITS DEVICE SERVER** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
6 (Remove and Dispose) Contractor takes ownership

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0784 2 1	ITS DEVICE SERVER, F&I	EA		1/1/2007		$1,277.50
0784 2 3	ITS DEVICE SERVER, INSTALL	EA		1/1/2007		$400.00
0784 2 4	ITS DEVICE SERVER, ADJUST/MODIFY	EA		1/1/2007		$1,388.78

784- 3- AB ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use when analog video and data signals obtained in the field must be converted to digital signals for transmission across IP networks. The encoder and decoder are independent, network-based devices that utilize MPEG-2 and other video compression algorithms for transmission of high-bandwidth signals. Encoders may be hardened devices and are installed in the field. Decoders are housed in transportation management centers and can be either a hardware device or a decoder software program running on a computer.
NOTE: Software based decoder is incidental to the digital video encoder, per specifications.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **784- 3- AB** **ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0
4 (Relocate) B=0
5 (Adjust /Modify) B=0
6 (Remove and Dispose) Contractor takes ownership, B=0

B= Component
1 (Hardened Encoder)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0784 3 11	ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER, F&I, HARDENED ENCODER	EA		1/1/2007		$3,719.70
0784 3 21	ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER, FURNISH, HARDENED ENCODER	EA		1/1/2007		$500.00
0784 3 60	ITS DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER, REMOVE & DISPOSE, HARDENED ENCODER	EA		1/1/2007		$0.00

784- 4- AB ITS DIGITAL VIDEO DECODER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details DO NOT USE with Digital Video Encoder; see details with 784-3 item.
This item to be used only when a hardware-based decoder, or additional copies of the software-based decoder are needed.
Contact ITS Section prior to opening.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **784- 4- AB** **ITS DIGITAL VIDEO DECODER** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) B=0
4 (Relocate) B=0
5 (Adjust /Modify) B=0
6 (Remove and Dispose) Contractor takes ownership B=0

B= Component*
1 (Hardware-based decoder)
2 (Software-based decoder)
*See details and/or specifications

Notes Contact ITS Section prior to opening.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

784- 5- AB ITS MANAGER ETHERNET HUB SWITCH

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details For use in ITS communication networks to provide centralized Ethernet connections for ITS field devices utilizing field or edge switches. The Ethernet hub switch is hardened to withstand harsh environments and installation at remote locations. "Long haul" and "short haul" are common terms applied to telecommunication equipment in order to generally describe a devices ability to transmit information over various distances.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **784- 5- AB** **ITS MANAGER ETHERNET HUB SWITCH** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

4 (Relocate))
5 (Adjust /Modify)
6 (Remove and Dispose) Contractor takes ownership

B= Type
1 (Long Haul)
2 (Short Haul)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0784 5 11	ITS MANAGED ETHERNET HUB SWITCH,F&I, LONG HAUL	EA		1/1/2007		$18,379.80

784- 6- AB ITS WIRELESS COMMUNICATION DEVICE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

For use in transmitting and receiving data in ITS networks, especially between remotely located field devices and the mainline communications infrastructure tat serves them. Devices include radion transmitter-receivers and antennas, power-over-Ethernet (PoE) injectors, serial cable, power supplies and mounting hardware. Access points and subscriber units are typically associated with Ethernet systems.
Specifications needed to detail equipment requirements.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **784- 6- AB** **ITS WIRELESS COMMUNICATION DEVICE** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate))
5 (Adjust /Modify)

6 (Remove and Dispose) B=0, Contractor takes ownership

B= Type
1 (Ethernet Access Point)
2 (Ethernet Subscriber Unit)
3 (Serial Data Unit)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0784 6 11	ITS WIRELESS COMMUNICATION DEVICE,F&I,ETHERNET ACCESS POINT	EA	T	1/1/2007		$7,107.50
0784 6 12	ITS WIRELESS COMMUNICATION DEVICE, F&I, ETHERNET SUBSCRIBER UNIT	EA	T	1/1/2007		$6,750.00
0784 6 60	ITS WIRELESS COMMUNICATION DEVICE,REMOVE & DISPOSE	EA	T	1/1/2007		$0.00
0784 6 61	ITS WIRELESS COMMUNICATION DEVICE,REMOVE & DISPOSE,ETHERNET ACCESS POINT	EA	T	1/1/2007	7/16/2008	$0.00

785- 1- AB ITS POLE

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details Use a lowering device in field locations where a CCTV camera or other ITS device is mounted on a pole, but the height precludes easy access to the equipment for maintenance or repair. The lowering device is provided along with a steel or concrete pole. Retrofit: to be used where a pole is already provided, to include furnishing & installation of lowering device.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **785- 1- AB** **ITS POLE** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

4 (Relocate)
5 (Adjust /Modify)
9 (Retrofit lowering device on existing pole) B=0

B= Type
1 (Concrete Pole w/ lowering device)
2 (Steel Pole w/ lowering device)
3 (Concrete Pole w/o lowering device)
4 (Steel Pole w/o lowering device)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0785 1 11	ITS POLE, F&I, CONCRETE - WITH LOWERING DEVICE	EA		1/1/2007		$13,374.00
0785 1 12	ITS POLE, F&I, STEEL WITH LOWERING DEVICE	EA		1/1/2007		$46,424.70
0785 1 13	ITS POLE, F&I, CONCRETE WITHOUT LOWERING DEVICE	EA		1/1/2007		$6,283.27
0785 1 14	ITS POLE, F&I, STEEL WITHOUT LOWERING DEVICE	EA		1/1/2007		$15,000.00
0785 1 42	ITS POLE, RELOCATE, STEEL POLE WITH LOWERING DEVICE	EA		1/1/2007		$0.00
0785 1 43	ITS POLE, RELOCATE, CONCRETE POLE WITHOUT LOWERING DEVICE	EA		1/1/2007		$2,000.00

785- 2-ABC ITS FIELD CABINET

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective July 2007 letting; replaces 785-2-AB**

Details For use on ITS project. Refer to Specification for cabinets covered by Section 785.
For Install, relocate, or adjust/modify operations, detail mounting requirements in the plans and/or specifications. Specifications for Install only items should include existing location of materials/equipment (i.e. maintenance yard address)
NOTE: Items listed in other sections may have cabinets incidental to item being installed.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design**
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications

***Selected Items may require Tech Spec and/or Plan Detail**

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **785- 2-ABC** **ITS FIELD CABINET** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00
5 (Adjust /Modify) BC=00
6 (Remove and Dispose) Contractor takes ownership BC=00

B= Type
1 (Type 336)
2 (Type 336 w/ sunshields)
3 (Type 336S)
4 (Type 336S w/ sunshields)
5 (Type 332)
6 (Type 332 w/ sunshields)
9 (Special)*

C= Mounting
1 (Pole Mount)
2 (Ground Mount)

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0785 2112	ITS FIELD CABINET, F&I, TYPE 336, GROUND MOUNT	EA		7/1/2007		$5,000.00
0785 2121	ITS FIELD CABINET, F&I, TYPE 336 WITH SUNSHIELDS, POLE MOUNT	EA		7/1/2007		$5,458.13
0785 2122	ITS FIELD CABINET, F&I, TYPE 336 WITH SUNSHIELDS, GROUND MOUNT	EA		7/1/2007		$5,959.00
0785 2131	ITS FIELD CABINET, F&I, TYPE 336S, POLE MOUNT	EA		7/1/2007		$7,507.60
0785 2141	ITS FIELD CABINET, F&I, TYPE 336S WITH SUNSHIELDS, POLE MOUNT	EA		7/1/2007		$5,879.32
0785 2162	ITS FIELD CABINET, F&I, TYPE 332 W/SUNSHIELDS, GROUND MOUNT	EA		7/1/2007		$10,189.91
0785 2191	ITS FIELD CABINET, F&I, SPECIAL, POLE MOUNT	EA		7/1/2007		$0.00
0785 2192	ITS FIELD CABINET, F&I, SPECIAL, GROUND MOUNT	EA		7/1/2007		$7,361.00
0785 2300	ITS FIELD CABINET, INSTALL	EA		7/1/2007		$0.00
0785 2400	ITS FIELD CABINET, RELOCATE	EA		7/1/2007		$2,032.36
0785 2500	ITS FIELD CABINET, ADJUST/MODIFY	EA		7/1/2007		$2,700.00
0785 2600	ITS CABINET, REMOVE & DISPOSE	EA		7/1/2007		$350.00

785- 3-ABC **ITS EQUIPMENT SHELTER**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Effective July 2007 letting; replaces 785-3-AB**

Details For use on ITS Projects. Refer to Specification for cabinets/shelter covered by Section 785. All shelter/building incidentals must be detailed in the plans or specifications, including electrical, mechanical, and/or HVAC.

DO NOT Use 750 Architectural Items with this item.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

***Selected Items may require Tech Spec and/or Plan Detail**

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **785- 3-ABC** **ITS EQUIPMENT SHELTER** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)*
3 (Install) BC=00*
4 (Relocate) BC=00*
5 (Adjust /Modify) BC=00
6 (Remove and Dispose) Contractor takes ownership

B= Size (from exterior dimensions)
1 (up to 120 ft2)
2 (121 to 170 ft2)
3 (171 to 250 ft2)
9 (Special)*

C= Interior Ceiling Height
1 (8 ft)
2 (9 ft)

Notes *A=2, 3, 4 verify with ITS Office prior to opening
*B=9 may require Tech Spec or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0785 3112	ITS EQUIPMENT SHELTER, F&I, 120 SQUARE FEET OR LESS 9' INTERIOR CEILING HEIGHT	EA	T	7/1/2007		$56,017.38
0785 3191	ITS EQUIPMENT SHELTER, F&I, SPECIAL 9' INTERIOR CEILING HEIGHT	EA	T	7/1/2007		$85,850.00

786- 1- AB ITS VEHICLE DETECTION SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

For use on ITS Projects. Refer to Specifications for types of detection systems. Special Detection Systems require approval of the State ITS Office.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

***Selected Items may require Tech Spec and/or Plan Detail**

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0550 ITS

Status

Struct. **786- 1- AB** **ITS VEHICLE DETECTION SYSTEM** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)
9 (Retrofit lowering device on existing pole) B=0

B= Detector Type
1 (Microwave)
2 (Video)
3 (Magnetic)
4 (Acoustic)
9 (Special) * Note: Requires prior approval of the ITS Office

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0786 1 11	ITS VEHICLE DETECTION SYSTEM, F&I, MICROWAVE	EA		1/1/2007		$5,400.72
0786 1 12	ITS VEHICLE DETECTION SYSTEM, F&I, VIDEO DETECTOR	EA		1/1/2007		$6,798.33
0786 1 13	ITS VEHICLE DETECTION SYSTEM, F&I, MAGNETIC DETECTOR	EA		1/1/2007		$2,000.00
0786 1 19	ITS VEHICLE DETECTION SYSTEM, F&I, SPECIAL	EA	T	1/1/2007		$29,727.60
0786 1 31	ITS VEHICLE DETECTION SYSTEM, INSTALL, MICROWAVE	EA		1/1/2007		$1,950.70
0786 1 39	ITS VEHICLE DETECTION SYSTEM, INSTALL, SPECIAL	EA	T	1/1/2007		$5,000.00
0786 1 41	ITS VEHICLE DETECTION SYSTEM, RELOCATE, MICROWAVE	EA		1/1/2007		$1,909.50
0786 1 42	ITS VEHICLE DETECTION SYSTEM, RELOCATE, VIDEO	EA		1/1/2007		$0.00
0786 1 49	ITS VEHICLE DETECTION SYSTEM, RELOCATE, SPECIAL	EA		1/1/2007		$4,611.42
0786 1 51	ITS VEHICLE DETECTION SYSTEM, ADJUST & MODIFY, MICROWAVE	EA		1/1/2007		$1,909.50

BOE

Basis of Estimates

Chapter 18

Items 800 to 899

State Specifications and Estimates Office
Estimating Systems Support Section

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800-	MASS TRANSIT- RAIL ROAD		
	Unit	Accuracy	PlanQuantity?
Notes	Items 800 to 899: Mass Transit items removed due to lack of use. Item Structures restored upon request.		
Details			
Related Items	Required	Recommended	
Forms	Design		
	Construction		
Documentation	Design		
	Construction		
References	PPM Chapter		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

*TRNS*PORT Category (DRAFT FIELD):*

Status

Struct. **800-** **MASS TRANSIT- RAIL ROAD**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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BOE

Basis of Estimates

Chapter 19

Items 900 to 999

State Specifications and Estimates Office
Estimating Systems Support Section

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901-337- 8 BONDED ASPHALT CONCRETE FRICTION COURSE

Unit TN; MT **Accuracy** 10th of a Ton; 10th of a Metric Ton **PlanQuantity?** no

Notes **Contact - Emmanuel Uwaibi for use**

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-06

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **901-337- 8** **BONDED ASPHALT CONCRETE FRICTION COURSE** **TN**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0901337 8	BONDED ASPHALT CONCRETE FRICTION COURSE	TN	T	7/1/2007	9/30/2008	$139.67

904-439- A SYNTHETIC SUBSURFACE DRAINAGE LAYER

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **Monitor: Larry Jones, State Structures Office**

Details For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form

(comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **904-439- A** **SYNTHETIC SUBSURFACE DRAINAGE LAYER** **SY**

A= sides covered by geotextile
1 (single sided)
2 (double sided)
Note: Standard is double sided

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0904439 2	SYNTHETIC SUBSURFACE DRAINAGE LAYER,DOUBLE SIDED	SY		1/1/2007		$15.60

904-540- A HIGH TENSION CABLE BARRIER SYSTEM

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **This is a trial item; contact the Monitor prior to use. Refer to Design Bulletin 07-08 for additional details.**

Details Monitor: Andy Keel
through 12/05: A=1 complete system included anchors.
Effective 1/2006: A=2 or 3 defines type of post system, to be used with A=4 end terminal.
Effective 6-2007: Reinstated A=1.

THE MONITOR WILL SELECT WHICH ITEM(S) are to be used on a given project, as well as advise when specific notes and/or details are to be added to the plans.

Use Miscellaneous Asphalt item for mow strip.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **904-540- A** **HIGH TENSION CABLE BARRIER SYSTEM** **LF**

A= Type*
1 (System with anchors) LF
2 (Socketed Post System) LF
3 (Driven Post System) LF
4 (End Terminal) EA

Notes *The Monitor will select which item(s) to use on a given project.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0904540 1	HIGH TENSION CABLE BARRIER SYSTEM - WITH ANCHORS	LF	T	6/1/2008	9/30/2008	$19.30
0904540 2	HIGH TENSION CABLE BARRIER SYSTEM - SOCKETED POST	LF	T	1/1/2007		$14.30
0904540 4	HIGH TENSION CABLE BARRIER SYSTEM - END TERMINAL	EA	T	1/1/2007		$2,587.50
0904540 10	HIGH TENSION CABLE BARRIER SYSTEM - RELOCATE	LF	T	1/1/2007		$10.00

904-711-ABC THERMOPLASTIC, NO TRACK

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes **Monitor: Chester Henson**
Developmental Item- initial end date set at 6-30-2005. May only be changed with monitor's approval.

Details Monitor: Chester Henson.
Contact the monitor prior to using this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **904-711-ABC** **THERMOPLASTIC, NO TRACK** **Mixed**

A = color
1 (white)
2 (yellow)

B = type
1 (solid), per NM or NK Note: C =1 or 2
2 (skip), per GM or GK Note: C =1 or 2
3 (solid), per LF or M1
4 (skip), per LF or M1
5 (guidelines), per LF or M1
6 (messages), EA Note: C = 0

C = width
0 (blank- used for B =6)
1 (6")
2 (8")
3 (10")
4 (12")
5 (16")
6 (18")
7 (24")

Notes Note: Mile (kilometer) units only valid with 6" or 8" stripes
Note: Accuracy for LF items is per Linear Foot, Mile items to 1/1000th of a mile, and Square Foot items to the nearest square foot.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

905-324- A **REWORKED ASPHALT CONCRETE**

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **Monitor: Manny Uwaibi**

Details Monitor: Manny Uwaibi, State Pavement Design Office.
Contact the monitor prior to using this item.

Related Items **Required** **Recommended**

Forms **Design**
Construction

Documentation **Design**
Construction

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **905-324- A** **REWORKED ASPHALT CONCRETE** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0905324 1	REWORKED ASPHALT CONCRETE	SY		1/1/2007		$13.18

905-707- 1 STRIPING & MARKING- ASPHALT RESISTANT

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes **This is a developmental Item; contact the monitor prior to use. Valid for projects let March 2005 through June 2006. Date may be extended only by Monitor.**

Details Monitor: Ananth Prasad

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **905-707- 1** **STRIPING & MARKING- ASPHALT RESISTANT** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

906-102- 1 AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)

Unit ED **Accuracy** Each Day **PlanQuantity?** no

Notes **This is a developmental item; designers must get approval from the monitor prior to use.**

Details Monitor: Cheryl Adams
Limited Use- When approved, Construction must document effectiveness for FHWA evaluation of this experimental item.
Coordinate all reports with the monitor.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Developmental Specification required.
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **906-102- 1** **AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)** **ED**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

906-173- A POLYURETHANE INJECTION AT BOX CULVERT

Unit LB; KG **Accuracy** Pound; Kilogram **PlanQuantity?** no

Notes **This is a trial item; contact the Monitor prior to use**

Details Monitor: Larry Jones, State Structures Design Office.
to be used only with approval of State Structures Design Office
to be used for specialty geotechnical work.

Related Items **Required** **Recommended**

Forms **Design** CADD Form not specified;
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **906-173- A** **POLYURETHANE INJECTION AT BOX CULVERT** **LB**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

906-334- 1 FUEL RESISTANT SUPERPAVE ASPHALT CONCRETE

Unit TN; MT **Accuracy** 10th of a Ton; 10th of a Metric Ton **PlanQuantity?** no

Notes **This is a trial item; contact the Monitor prior to use**

Details Monitor: Greg Sholar.
to be used only with approval of Asphalt Materials and/or Pavement Office. Intended for Agricultural Inspection and Weigh stations

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-06

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **906-334- 1** **FUEL RESISTANT SUPERPAVE ASPHALT CONCRETE** **TN**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0906334 1	FUEL RESISTANT SUPERPAVE ASPHALTIC CONCRETE	TN	T	1/1/2007	12/31/2007	$125.00

906-340- 1 OPEN GRADED CRACK RELIEF LAYER

Unit TN; MT **Accuracy** 10th of a Ton; 10th of a Metric Ton **PlanQuantity?** no

Notes **This is a developmental item; contact the Monitor prior to use.**

Details Contact the State Materials Office for assistance with this office. Developmental Specification required.
Used as a first layer over existing cracked pavement. Use only with concurrence from District Materials Engineer. Estimate Quantities based on a thickness of 1 inch, with equivalent spread rate of 107 lb/sy.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-06

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status **Future Effective Date**

Struct. **906-340- 1** **OPEN GRADED CRACK RELIEF LAYER** **TN**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0906340 1	OPEN GRADED CRACK RELIEF LAYER	TN	T	9/1/2008	9/30/2008	$0.00

906-455- 1 COMPOSITE SHEET PILING

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** yes

Notes **This is a trial item; contact the Monitor prior to use**
Monitor: Larry Jones

Details Low height sheet pile for shoreline protection. Polyurethane resin/glass fiber matrix pultruded material. Experimental use only.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-01
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 100 or 200 Structures or Roadway

Status

Struct. **906-455- 1** **COMPOSITE SHEET PILING** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

906-546- 1 TEMPORARY RAISED RUMBLE STRIPS

Unit PS **Accuracy** Per Set **PlanQuantity?** yes

Notes **This is a trial item; contact the Monitor prior to use**
Monitor: Cheryl Adams

Details For use with flagging operations on a two-lane, two way roadway. Four Sets are to be used, in each direction of the roadway, in advance of the flagging station. Refer to the specification for details.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **906-546- 1** **TEMPORARY RAISED RUMBLE STRIPS** **PS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0906546 1	RUMBLE STRIPS, RAISED, TEMPORARY	PS		1/1/2006		$692.47

906-548- 1 SOLDIER PILE WALL

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** no

Notes **This is a project-specific item.**

Details Contact the State Structures Design Office prior to requesting this item.

Related Items **Required** **Recommended**

Forms **Design**

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):*

Status

Struct. **906-548- 1** **SOLDIER PILE WALL** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0906548 1	SOLDIER PILE WALL	SF		7/1/2007	12/31/2010	$54.58

906-548- 2 SOLDIER NAIL WALL

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** no

Notes **This is a project-specific item.**

Details Contact the State Structures Design Office prior to requesting this item.

Related Items **Required** **Recommended**

Forms **Design**

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):*

Status

Struct. **906-548- 2** **SOLDIER NAIL WALL** **SF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0906548 2	SOIL NAIL WALL	SF		7/1/2007	12/31/2010	$303.71

906-560- 1 PAINTING STRUCTURAL STEEL- CABLES

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes **This is a trial item; contact the Monitor prior to use**

Details Monitor: Karen Byram

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.	
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **906-560- 1** **PAINTING STRUCTURAL STEEL- CABLES** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0906560 1	PAINT STRUCT STEEL, CABLES	LF	T	1/1/2007		$88.71

906-609- AA TRAFFIC SIGNAL SYSTEM

Unit PI **Accuracy** Per Intersection **PlanQuantity?** no

Notes **This is a trial item; contact the Monitor prior to use**

Details Monitor: Chester Henson
This is a developmental item; contact the monitor prior to use.
Intended for the payment of traffic signal systems, per intersection. Refer to the specifications for detailed list of items included/excluded for payment under this item.

Related Items	**Required**	906-609-100	**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **906-609- AA** **TRAFFIC SIGNAL SYSTEM** **PI**

AA= Intersection Number
1 (Intersection 1)
2 (Intersection 2)
as needed for additional intersections on a proposal

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

906-609-100 **INTERCONNECT CABLE ASSEMBLY- TRAFFIC SIGNAL SYSTEM**

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes **This is a trial item; contact the Monitor prior to use**

Details Monitor: Chester Henson
This is a developmental item; contact the monitor prior to use.
For use only with Traffic Signal System, per intersection. Includes cable, conduit, pull boxes, and other signals materials/items between intersections which are not included under per intersection item. Refer to the specifications for additional information.

Related Items **Required** 906-609- AA **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **906-609-100** **INTERCONNECT CABLE ASSEMBLY- TRAFFIC SIGNAL SYSTEM** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

906-633- 1 **FIBER OPTIC AERIAL SPLICE ENCLOSURE**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details New item for one-time use in district 5. Future use requires approval of Design and

Specifications

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**		
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Details and/or Tech Spec required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0500 Signalization

Status

Struct. **906-633- 1** **FIBER OPTIC AERIAL SPLICE ENCLOSURE** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0906633 1	FIBER OPTIC AERIAL SPLICE ENCLOSURE, F&I	EA	T	7/1/2007		$2,000.00

906-701- AA AUDIBLE STRIPE

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?**

Notes **Valid through 8-31-08; replaced by new 701 items. Refer to April 2008 Estimates/Roadway Bulletin.**
This is a Developmental item; contact the Monitor prior to use

Details Monitor: Chester Henson
This is a developmental item; contact the monitor prior to use.

Related Items	**Required**		**Recommended**
Forms	**Design**	SBTBSP	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**		
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **906-701- AA** **AUDIBLE STRIPE** **Mixed**

Verify structure with Monitor prior to opening items
AA=
32 (Yellow, Skip, 6") GM
34 (Yellow, Skip, 6") LF
35 (White, Solid, 6") LF
36 (Yellow, Solid, 6") LF
37 (White, Solid, 6") NM
38 (Yellow, Solid, 6") NM
others, per specification.

Notes Note: Mile (kilometer) units only valid with 6" or 8" stripes
Note: Accuracy for LF items is per Linear Foot, Mile items to 1/1000th of a mile, and Square Foot items to the nearest square foot.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0906701 32	TRAFFIC STRIPE SKIP AUDIBLE, YELLOW, 6"	GM	T	1/1/2007	9/1/2008	$2,497.50
0906701 37	TRAFFIC STRIPE SOLID AUDIBLE, WHITE, 6"	NM	T	1/1/2007	9/1/2008	$4,846.00
0906701 38	TRAFFIC STRIPE SOLID AUDIBLE, YELLOW, 6"	NM	T	1/1/2007	9/1/2008	$4,846.00

906-702- AA INVERTED RIB PROFILE MARKINGS

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes **Effective July 2006, pending developmental Specification.**

Details Contact Chester Henson for information.
Pay Item structure updated with 9-8-06 developmental specification

Related Items **Required** **Recommended**

Forms **Design** SBTBSP COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. **906-702- AA** **INVERTED RIB PROFILE MARKINGS** **Mixed**

Verify structure with Monitor prior to opening items
AA=
31 (White, Skip, 6") GM
32 (Yellow, Skip, 6") GM
33 (White, Skip, 6") LF
34(Yellow, Skip, 6") LF
35 (White, Solid, 6") LF
36 (Yellow, Solid, 6") LF
37 (White, Solid, 6") NM
38 (Yellow, Solid, 6") NM

others, per specification.

Notes Note: Mile (kilometer) units only valid with 6" or 8" stripes
Note: Accuracy for LF items is per Linear Foot, Mile items to 1/1000th of a mile, and Square Foot items to the nearest square foot.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0906702 32	INVERTED PROFILE MARKING, SKIP, YELLOW, 6"	GM	T	1/1/2007		$3,143.30
0906702 33	INVERTED PROFILE MARKING, SKIP, WHITE, 6"	LF	T	1/1/2007		$5.00
0906702 35	INVERTED PROFILE MARKING, SOLID, WHITE, 6"	LF	T	1/1/2007		$5.00
0906702 36	INVERTED PROFILE MARKING, SOLID, YELLOW, 6"	LF	T	1/1/2007		$5.00
0906702 37	INVERTED PROFILE MARKING, SOLID, WHITE, 6"	NM	T	1/1/2007		$10,185.65
0906702 38	INVERTED PROFILE MARKING, SOLID, YELLOW, 6"	NM	T	1/1/2007		$9,011.22

907-455- A CONCRETE CYLINDER PILE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?**

Notes **Specification under development; do not open items until specification is complete**

Details Monitor: Larry Sessions, State Structures Design Office
Details needed from Monitor

Related Items **Required** **Recommended**

Forms **Design**
Construction

Documentation **Design**
Construction

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **907-455- A** **CONCRETE CYLINDER PILE** **LF**

A= Diameter
1 (27.6")
2 (31.5")
3 (34.5")
4 (39.4")

Notes DO NOT OPEN WITHOUT APPROVAL OF THE MONITOR

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

907-715-AAA **LIGHTING- HURRICANE REPAIRS**

Unit **Accuracy** **PlanQuantity?**

Notes **Valid for specific projects only**

Details Valid for D-4 projects with dedicated "Hurricane Repair" funds. Approvals needed for any other use.

Related Items **Required** **Recommended**

Forms **Design**
Construction

Documentation **Design**
Construction

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **907-715-AAA** **LIGHTING- HURRICANE REPAIRS**

AA Structure as requested

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0907715 1	LAMP, HPS HIGH MAST	EA		1/1/2007		$300.00
0907715 2	HIGH MAST PARTS, F&I, LOWERING CABLE	EA		1/1/2007		$2,240.00
0907715 3	HIGH MAST PARTS, F&I, POWERING CABLE	EA		1/1/2007		$1,147.50
0907715 4	HIGH MAST PARTS, F&I, WINCH	EA		1/1/2007		$1,537.50
0907715 5	HIGH MAST PARTS, F&I, LUMINAIRE SUPP RING	EA		1/1/2007		$1,955.00

0907715 6	HIGH MAST PARTS, F&I, PULLEY ASSEMBLY	EA	1/1/2007	$2,070.00
0907715 7	HIGH MAST PARTS, F&I, COMPLETE LOWERING SYSTEM	EA	1/1/2007	$8,632.50
0907715 8	HIGH MAST PARTS, F&I, SHIELD, 180 DEGREE	EA	1/1/2007	$530.00
0907715 9	HIGH MAST PARTS, F&I, BALLAST ASSEMBLY	EA	1/1/2007	$1,005.00
0907715 10	HURRICANE REPAIRS, DIAGNOSTIC HIGH MAST	EA	1/1/2007	$2,150.00
0907715 11	HURRICANE REPAIRS, LAMP-INCANDESCENT	EA	1/1/2007	$137.50
0907715 12	HURRICANE REPAIRS, FUSE-POLE BASE, F&I	EA	1/1/2007	$14.00
0907715 13	HURRICANE REPAIRS, ROUTINE LIGHTING MAINTENANCE SHOULDER, SINGLE ARM	LO	1/1/2007	$300.00
0907715 14	HURRICANE REPAIRS, ROUTINE LIGHTING MAINTENANCE, SHOULDER, DOUBLE ARM WALL	LO	1/1/2007	$50.00
0907715 15	HURRICANE REPAIRS, ROUTINE LIGHTING MAINTENANCE. MEDIAN, DOUBLE ARM WALL	LO	1/1/2007	$550.00
0907715 16	HURRICANE REPAIRS, DIAGNOSTIC WORK, SHOULDER SINGLE ARM	LO	1/1/2007	$150.00
0907715 17	HURRICANE REPAIRS, DIAGNOSTIC WORK, SHOULDER DOUBLE ARM	LO	1/1/2007	$150.00
0907715 18	HURRICANE REPAIRS, DIAGNOSTIC WORK, MEDIAN, DOUBLE ARM, WALL MOUNT	LO	1/1/2007	$225.00
0907715 19	HURRICANE REPAIRS, DIAGNOSTIC WORK, HIGH MAST GROUND	LO	1/1/2007	$750.00
0907715 20	HURRICANE REPAIRS, LIGHT POLE LEVELING, ALUMINUM / STEEL, CONCRETE FOUNDATION	EA	1/1/2007	$325.00
0907715 21	HURRICANE REPAIRS, LIGHT POLE LEVELING, CONCRETE, DIRECT BURIED	EA	1/1/2007	$528.00
0907715 22	HURRICANE REPAIRS, LIGHT POLE FOUNDATION, STRAIGHTEN EXISTING FOUNDATION	EA	1/1/2007	$100.00
0907715 23	HURRICANE REPAIRS, LUMINAIRE,REMOVE, ROADWAY, HIGH MAST	EA	1/1/2007	$100.00
0907715 24	HURRICANE REPAIRS, PULL BOX, F&I, COVER ONLY, ROADSIDE	EA	1/1/2007	$500.00
0907715 25	HURRICANE REPAIRS, PULL BOX, F&I, COVER ONLY, SIDEWALK	EA	1/1/2007	$500.00
0907715 26	HURRICANE REPAIRS, LIGHT POLE, FRANGIBLE BASE, F&I, DOOR ASSEMBLY	EA	1/1/2007	$5,000.00

0907715 27	HURRICANE REPAIRS, ALUMINUM LIGHT POLE, COMPLETE, F&I, 50' AND GREATER, CASE 8	EA	1/1/2007	$5,000.00
0907715 28	HURRICANE REPAIRS, ALUMINUM LIGHT POLE, COMPLETE, F&I, 50' AND GREATER, CASE 9	EA	1/1/2007	$5,000.00
0907715 29	HURRICANE REPAIRS, ALUMINUM LIGHT POLE, COMPLETE, F&I, 50' AND GREATER, CASE 10	EA	1/1/2007	$5,000.00
0907715 30	HURRICANE REPAIRS, ALUMINUM LIGHT POLE, COMPLETE, F&I, 50' AND GREATER, CASE 11	EA	1/1/2007	$5,000.00
0907715 31	HURRICANE REPAIRS, LIGHT POLE COMPLETE, SPECIAL DESIGN SINGLE ARM - SHOULDER MOUNT, GALVANIZED, 45'	EA	1/1/2007	$5,000.00
0907715 32	HURRICANE REPAIRS, LIGHT POLE COMPLETE, SPECIAL DESIGN SINGLE ARM - SHOULDER MOUNT, CONCRETE, 40'	EA	1/1/2007	$5,000.00
0907715 33	HURRICANE REPAIRS, LIGHT POLE COMPLETE, SPECIAL DESIGN SINGLE ARM - SHOULDER MOUNT, CONCRETE, 50'	EA	1/1/2007	$5,000.00
0907715 34	HURRICANE REPAIRS, LIGHT POLE COMPLETE, SPECIAL DESIGN SINGLE ARM - SHOULDER MOUNT, WOOD, 40'	EA	1/1/2007	$1,500.00
0907715 35	HURRICANE REPAIRS, LIGHT POLE COMPLETE, SPECIAL DESIGN SINGLE ARM - SHOULDER MOUNT, WOOD, 50'	EA	1/1/2007	$5,000.00
0907715 36	HURRICANE REPAIRS, DIAGNOSTIC WORK, LOAD CENTER	LO	1/1/2007	$150.00
0907715 37	HURRICANE REPAIRS, DIAGNOSTIC WORK, CIRCUIT	LO	1/1/2007	$750.00
0907715 38	HURRICANE REPAIRS, DIAGNOSTIC WORK, HIGH MAST, AERIAL	LO	1/1/2007	$1,500.00
0907715 39	HURRICANE REPAIRS, ROUTINE LIGHTING MAINTENANCE BRIDGE	LO	1/1/2007	$2,750.00

908-102- 1 MICROSURFACING FOR MOT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **MONITOR: Manny Uwaibi, State Pavement Design Office**
Developmental Item

Details Contact the State Pavement Design Office for approval, prior to using this item.

This item intended for placing a thin asphalt layer for covering pavement markings, rather than removing conflicting pavement markings, during construction MOT at critical areas such as entrances and exits to Service Plazas and Toll Plazas.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,

materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design**

Construction Refer to Comp Book

Documentation **Design**

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **908-102- 1** **MICROSURFACING FOR MOT** **SY**

Notes Approval Required

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0908102 1	MICROSURFACING FOR MOT	SY	T	7/1/2008	6/30/2009	$100.00

908-104- 1 CONTRACTOR'S SEDIMENT AND EROSION CONTROL

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes **DEVELOPMENTAL SPECIFICATION REQUIRED; to be used only with permission of State Construction Engineer and/or State Drainage Engineer. Valid only for projects let July 1, 2008 to December 31, 2008**

Details For use with Erosion Control Best Management Practices (BMP) guidelines and Developmental Specification.
When this item is used, DO NOT USE any other Sediment/Erosion Control items (104 items).
**********DRAFT BELOW**********
*********PPM Guidance Pending **********
For the purposes of providing the contractor information needed for the development of its Erosion and Sediment Control Plan, the Department's Engineer of Record would need to provide the following information in the plans:

1. Delineation of wetland areas
2. Identification of Limits of Construction
3. Hydraulic maps
4. Contour maps
5. existing drainage facilities
6. drainage maps with flow patterns identified
7. forms required for reporting and documenting compliance
8. runoff coefficients
9. NPDES requirements

Related Items **Required** **Recommended**

Forms	**Design**	SHTabQuant	COMP 700-050-05
	Construction	Refer to Comp Book	
Documentation	**Design**		
	Construction		
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **908-104- 1** **CONTRACTOR'S SEDIMENT AND EROSION CONTROL** **LS/LS**

Notes DO NOT OPEN without approval from David Sadler and/or Rick Renna

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0908104 1	CONTRACTOR'S SEDIMENT AND EROSION CONTROL	LS	T	7/1/2008	12/31/2010	$0.00

908-107- A **Mitigation for Project Number 210427-3-52-01**

Unit **Accuracy** **PlanQuantity?**

Notes

Details

Related Items	**Required**	**Recommended**
Forms	**Design**	
	Construction	
Documentation	**Design**	
	Construction	
References	**PPM Chapter**	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **908-107- A** **Mitigation for Project Number 210427-3-52-01**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

908-170- A **DEEP SOIL MIXING**

Unit CY; M3 **Accuracy** 10th of a Cubic Yard; 10th **PlanQuantity?**

of a Cubic Meter

Notes **Monitor: Larry Jones, State Geotechnical Engineer**

Details Contact the State Structures Office for approval, prior to using this item.

This item is intended to be used for dry-mehod of mass soil mixing to stabilize organic subsoils and minimize the potential for future settlements.

The work includes mechanically belnding the in-situ surface soils (muck) overlying limestone with a reagent binder to increase the soil strength, reduce settlement characteristics, and provide a stable soil surface for the roadway.

Related Items **Required** **Recommended**

Forms **Design**
Construction

Documentation **Design**
Construction

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **908-170- A** **DEEP SOIL MIXING** **CY**

A= Method
1 (Dry)

Notes Valid only for project 220499-1-52-01. Contact Monitor for consideration on other projects

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0908170 1	DEEP SOIL MIXING, DRY	CY	T	7/14/2008	12/31/2009	$0.00

908-350- A FIBER REINFORCED CONCRETE PAVEMENT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?**

Notes **Monitor: Manny Uwaibi**

Details Contact the State Pavement Design Office prior to use.

Related Items **Required** **Recommended**

Forms **Design**
Construction

Documentation **Design**
Construction

References **PPM Chapter**
Other
Standards
Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **908-350- A** **FIBER REINFORCED CONCRETE PAVEMENT** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0908350 1	FIBER REINFORCED CONCRETE PAVEMENT, 11" AVE THICKNESS	SY	T	1/1/2009	12/31/2009	$350.00
0908350 1	FIBER REINFORCED CONCRETE PAVEMENT, 11" AVE THICKNESS	SY	T	1/1/2009	12/31/2009	$350.00
0908350 2	FIBER REINFORCED CONCRETE PAVEMENT, 14" AVE THICKNESS	SY	T	1/1/2009	12/31/2009	$350.00
0908350 2	FIBER REINFORCED CONCRETE PAVEMENT, 14" AVE THICKNESS	SY	T	1/1/2009	12/31/2009	$350.00

908-400- A SKYWAY- LIGHTNING PROTECTION SYSTEM

Unit EA **Accuracy** Each **PlanQuantity?** yes

Notes

Details SKYWAY Bridge Only. One-time use item for bridge structure.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **908-400- A** **SKYWAY- LIGHTNING PROTECTION SYSTEM** **EA**

A= 1

Notes For use ONLY on the SKYWAY Bridge

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0908400 1	SKYWAY - LIGHTNING PROTECTION SYSTEM	EA	Y	3/1/2008	12/30/2008	$0.00

908-430- A DRAINAGE MATERIALS

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details A=1: Plans and/or Specifications must clearly identify materials to be furnished under special agreement with local agency.

Related Items **Required** **Recommended**

Forms **Design**

Construction

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **908-430- A** **DRAINAGE MATERIALS** **LS/LS**

A= Operation
1 (Furnish Only) Project specific item, 5/08 letting

Notes One-time use; District 1 item

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

908-431- A PIPE LINER- SECTIONAL REPAIR

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?**

Notes

Details Contact the State Drainage Office prior to use.
Box-to-Box repairs are normally preferred (use Item 431-). When a Sectional Repair is considered, coordinate with the State Drainage Office. New materials/methods may be recommended.

Related Items **Required** **Recommended**

Forms **Design**

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **908-431- A** **PIPE LINER- SECTIONAL REPAIR** **LF**

A= Pipe Diameter Size Range
1 (0=-24")
2 (25-36")
3 (37-48")
4 (49-60")
5 (61" and greater)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0908431 1	PIPE LINER, SECTIONAL REPAIR, 0-24"	LF	T	1/1/2007	12/31/2008	$113.52
0908431 2	PIPE LINER, SECTIONAL REPAIR, 25-36"	LF	T	1/1/2007	12/31/2008	$113.52
0908431 3	PIPE LINER, SECTIONAL REPAIR, 37-48"	LF	T	1/1/2007	12/31/2008	$113.52
0908431 4	PIPE LINER, SECTIONAL REPAIR, 49-60"	LF	T	1/1/2007	12/31/2008	$113.52
0908431 5	PIPE LINER, SECTIONAL REPAIR, 61" OR >	LF	T	1/1/2007	12/31/2008	$113.52

908-450- A

Unit **Accuracy** **PlanQuantity?**

Notes

Details

Related Items **Required** **Recommended**

Forms **Design**
Construction

Documentation **Design**
Construction

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD):

Status

Struct. **908-450- A**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0908450 1	PRECAST CONCRETE DECK PANELS	SF	T	1/1/2009	6/30/2009	$55.00

908-463- A FIBER REINFORCED COMPOSITE DECK

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?**

Notes **Valid only for test project**

Details One time use only: Project 415316-1-52-01, let 3-25-09

INSTALL: Decking to be purchased by FDOT. Contractor will pick up materials from operation center and install it per plans & specifications.

Related Items **Required** **Recommended**

Forms **Design**
Construction

Documentation **Design**
Construction

References **PPM Chapter**
Other
Standards
Specifications
Plan Detail and/or Tech Spec Required
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **908-463- A** **FIBER REINFORCED COMPOSITE DECK** **SF**

A= Operation
1 (Install)

Notes One-time use; project 415316-1-52-01, let 3-25-09

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0908463 1	FIBER REINFORCED COMPOSITE DECK, INSTALL	SF		3/25/2009	3/26/2009	$0.00

908-560- 1 CAULK FOR HART BRIDGE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes **Valid for use only on Hart Bridge**

Details Tech Specs/Plan details required to detail material requirements (compatibility with coatings to be applied)

Related Items **Required** **Recommended**

Forms **Design**
Construction

Documentation **Design**
Construction

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **908-560- 1** **CAULK FOR HART BRIDGE** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0908560 1	CAULKING FOR HART BRIDGE	LF	T	8/1/2008	12/31/2008	$1.00

908-560- 2 GRINDING FOR HART BRIDGE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes **Valid for use only on Hart Bridge**

Details Tech Specs/Plan details required to detail grinding requirements

Related Items **Required** **Recommended**

Forms **Design**
Construction

Documentation **Design**
Construction

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **908-560- 2** **GRINDING FOR HART BRIDGE** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0908560 2	GRINDING FOR HART BRIDGE	LF	T	8/1/2008	12/31/2008	$1.00

908-571- 1 TRANSITION MAT

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** no

Notes **Monitor: Larry Ritchie, State Construction Office**

Details Contact the State Construction Office for approval, prior to using this item.

Transition Mat for scour and permanent erosion control.

Related Items **Required** **Recommended**

Forms **Design**
Construction

Documentation **Design**
Construction

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **908-571- 1** **TRANSITION MAT** **SY**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0908571 1	TRANSITION MAT	SY	T	9/15/2008	12/31/2009	$1.00

908-648- A SIGNALS TRUSS, SPECIAL

Unit **Accuracy** **PlanQuantity?**

Notes **Limited use item**

Details Opened for selected District 1 projects for signals structures (truss).

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design**
Construction

Documentation **Design**
Construction

References **PPM Chapter**
Other
Standards
Specifications

Plan details and/or Tech Specs required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **908-648- A** **SIGNALS TRUSS, SPECIAL**

A= Operation
1 (F&I) Project 417365-1-52-01, 9/10
2 (F&I) Project 408268-5-52-01, 3/09

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

999- 2- **LUMP SUM CONTRACT (ALTERNATIVE BIDDING)**

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** no

Notes

Details See latest guidelines for Innovative Bidding practices.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05

Construction Refer to Comp Book

Documentation **Design**

Construction

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s) Contact Final Estimates

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **999- 2-** **LUMP SUM CONTRACT (ALTERNATIVE BIDDING)** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0999 2	LUMP SUM CONTRACT, ALTERNATIVE BIDDING	LS		1/1/2007		$879,508.82

999- 5- **LANE RENTAL DAYS (TIME BID)**

Unit DD **Accuracy** Dollars per day **PlanQuantity?** no

Notes

Details See latest guidelines for Innovative Bidding Practices.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction 700-050-57

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 11, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **999- 5-** **LANE RENTAL DAYS (TIME BID)** **DD**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

999- 16- PARTNERING (DO NOT BID)

Unit LS/LS **Accuracy** Lump Sum **PlanQuantity?** yes

Notes

Details The use of this pay item will be initiated by the District Construction Office. The purpose is to provide an amount of money to the contractor to pay for the cost of a partnering session(s). Designers will load the pay item and provide the cost to be overrun to the District Estimates Coordinator.
NOTE: Construction will advise the designer when to use this item. They will also provide the designer with the number of days and the cost per day.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuantLS COMP 700-050-05
Construction Refer to Comp Book

Documentation **Design** Computation book form or documentation from Construction required.
Construction Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s) 11, 13

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **999- 16-** **PARTNERING (DO NOT BID)** **LS/LS**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

999- 20- DISPUTE REVIEW BOARD (DO NOT BID)

Unit DA **Accuracy** Day **PlanQuantity?** no

Notes

Details The use of this pay item will be initiated by the District Construction Office. The purpose is

to require a Dispute Resolution Board to be established for the project and to provide the contractor a specific amount of money to pay for the services of each of the three Board members. Designers will load the pay item and the number of days (meetings).
NOTE: Construction will advise the designer when to use this item. They will also provide the designer with the number of days (meetings), based on 1 meeting per month for the length of the contract. The cost has been hard coded at $3,300.00* as the unit price for this item. Only the Director of Construction can approve a change to this amount.
*Verify current amount with specification.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Computation book form or documentation from Construction required.	
	Construction	Record final quantity on the computation book form.	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)	11, 13	

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **999- 20-** **DISPUTE REVIEW BOARD (DO NOT BID)** **DA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0999 16	PARTNERING, DO NOT BID	LS		1/1/2007		$0.00

999- 25- INITIAL CONTINGENCY AMOUNT (DO NOT BID)

Unit $ **Accuracy** Dollars **PlanQuantity?** no

Notes **IMPORTANT: INITIAL CONTINGENCY TOTAL IS BASED ON PROPOSAL TOTAL, not individual project totals.**

Details Use when requested by Construction, in accordance with the CPAM (Construction Project Administration Manual). The item will be loaded as FA Participating and the cost will be input by the District Estimates Coordinator. Load item in Roadway Category.
When a contract contains multiple projects, this item may be used on each project within the contract, if recommended by construction. Note that the totals listed in the CPAM are per PROPOSAL/CONTRACT, not per project.
Department Policy (per F. Simmons, 10-1-02): Include Initial Contingency Amount on all Design-Build Contracts.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	See Detail	
	Construction	see detail	
References	**PPM Chapter**		
	Other		

Standards

Specifications

Prep & Doc Manual Chapter(s) Contact Final Estimates

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **999- 25-** **INITIAL CONTINGENCY AMOUNT (DO NOT BID)** **$**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0999 20	DISPUTES REVIEW BOARD, DO NOT BID	DA		1/1/2007		$0.00

999-102- A SPEED AND LAW ENFORCEMENT OFFICER (DO NOT BID)

Unit MH **Accuracy** Hour **PlanQuantity?** no

Notes
Monitor: Cheryl Adams
A=Contract Type refer to contract between FDOT and Law enforcement, NOT type of Construction Contract.

Details
This item is used to provide uniformed traffic control officers, including marked law enforcement vehicles, to assist in controlling speed and enforcing traffic laws in the work zone. Officers should be actively involved in either directing traffic or reducing speeding and traffic violations present in our work zones.

Related Items **Required** **Recommended** 102- 14 (2012- 14)

Forms **Design** SHTabQuant COMP 700-050-03
Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**
Other
Standards
Specifications
Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0200 Roadway

Status

Struct. **999-102- A** **SPEED AND LAW ENFORCEMENT OFFICER (DO NOT BID)** **MH**

A =
1 = Central Office Statewide Contract
2 = District Contract

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0999 25	INITIAL CONTINGENCY AMOUNT, DO NOT BID	LS		1/1/2007		$0.00
0999102 1	SPEED & LAW ENFORCEMENT OFFICER, STATE FURNISHED, CENTRAL CONTRACT	MH		1/1/2007		$0.00

999-455- AB PILING- PRESTRESSED

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0100 Structures

Status

Struct. **999-455- AB** **PILING- PRESTRESSED** **LF**

A = 1 Piling (Prestressed Concrete)
2 Test Piling (Prestressed)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

999-715- A HURRICANE REPAIRS- LIGHTING

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes **Valid for Hurricane Repairs only.**

Details This is a special items for repair/replacement due to hurricanes.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities

sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0400 Lighting

Status

Struct. **999-715- A** **HURRICANE REPAIRS- LIGHTING** **EA**

A= Sequential Order of Items; may be expanded upon request.
1 (Ballast) EA
2 (Lamp, HPS) EA
3 (Lamp, Mercury Vapor) EA
4 (Lamp, Metal Halide) EA

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

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BOE

Basis of Estimates

Chapter 20

Items 1000 to 1999

Utilities (JPA) use only

State Specifications and Estimates Office
Estimating Systems Support Section

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1000- AA-	UTILITY WORK				
	Unit LS/LS	**Accuracy** Lump Sum		**PlanQuantity?** yes	
Notes	**HOLD pending approvals**				
Details	HOLD pending approval of the State Roadway Design Engineer. Specification and/or PPM guidance details to be determined. This pay item for Utility JPA projects Only Coordinate the use of this item with District Utilities Office. This item not to be used with detailed pay items for given utility. Payment covers all work and materials for specified utility. For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.				
Related Items	**Required**		**Recommended**		
Forms	**Design**	SHTabQuantLS	COMP 700-050-05		
	Construction	Refer to Comp Book			
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book. PLAN QUANTITY will be basis of payment to the Contractor.			
	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.			
References	**PPM Chapter**				
	Other				
	Standards				
	Specifications				
		Plan Detail and/or Tech Spec Required			
	Prep & Doc Manual Chapter(s)				

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1000- AA-** **UTILITY WORK** **LS/LS**

AA =
5 (Sewer)
6 (Water)
7 (Power)
8 (Communications)
9 (Fuel)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
0999102 2	SPEED & LAW ENFORCEMENT OFFICER, STATE FURNISHED, DISTRICT CONTRACT	MH		1/1/2007		$0.00
1000 5	UTILITY WORK, SEWER	LS	T	5/1/2008	2/29/2012	$500,000.00
1000 6	UTILITY WORK, WATER	LS	T	5/1/2008	2/29/2012	$344,027.97

1000 7	UTILITY WORK, POWER	LS	T	2/1/2012	2/29/2012	$220,588.84

1050- 1A-BCD UTILITY PIPE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details

This pay item for Utility JPA projects Only

For new pipe, payment includes anchors & incidentals, as well as connections to existing systems; detail all work in the plans or specifications. HISTORICAL PRICES vary considerably based on location, depth, installation length, specification requirements (sanitizing, leak detection) and other factors. Consult the maintaining agency for guidance on unit prices.

For pipe up to 7.9" diameter, payment includes all fittings.
Material requirements and pressure ratings must be included in the specifications. Pressure values shown next to the application are for common operating pressures, and are not included in the pay item description. (Design and Material pressure ratings are considerably higher than normal operating pressure, to allow for factor of safety.) Select the application based on the type of utility work to be completed.
For Casings, payment includes vents/air release valves.

For Plug/Place out of service, Specs/Details should indicate that payment includes all work & materials necessary. Plans should indicate length of pipe to be filled (payment length).

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1050- 1A-BCD** **UTILITY PIPE** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BC=00
4 (Relocate) BC=00

5 (Adjust /Modify) BC=00
6 (Remove & Dispose) BC=00, Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) BC=00, Note: DOT/maintaining agency retains ownership
8 (Plug & Place out of Service) BC=00 Note: Utility Retains Ownership
9 (Temporary Pipe)

B=Material
1 (Concrete)
2 (PVC)
3 (PE)
4 (DI/CI)
5 (Steel)
9 (Special)*

C= Application
1 (Casing/Conduit)
2 (Water/Sewer)
3 (Gas)
4 (Fuel Transmission)

D= Size or Equivalent Diameter
1 (0 - 1.9")*
2 (2.0 - 4.9")*
3 (5.0 - 7.9")*
4 (8.0 -19.9")
5 (20.0 - 49.9")
6 (50.0" or larger)
*Sizes up to 7.9" includes the cost of all fittings

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
1050 11124	UTILITY PIPE, F&I, CONCRETE, WATER / SEWER, 8 -19.9"	LF	T	1/1/2007		$10.00
1050 11125	UTILITY PIPE, F&I, CONCRETE, WATER / SEWER, 20 -49.9"	LF	T	1/1/2007		$418.33
1050 11211	UTILITY PIPE, F&I, PVC, CASING / CONDUIT, 0-1.9"	LF	T	1/1/2007		$19.00
1050 11212	UTILITY PIPE, F&I, PVC, CASING / CONDUIT, 2-4.9"	LF	T	1/1/2007		$18.49
1050 11213	UTILITY PIPE, F&I, PVC, CASING / CONDUIT, 5.0-7.9"	LF	T	1/1/2007		$50.89
1050 11214	UTILITY PIPE, F&I, PVC, CASING / CONDUIT, 8-19.9"	LF	T	1/1/2007		$38.30
1050 11221	UTILITY PIPE, F&I, PVC, WATER / SEWER, 0 - 1.9"	LF	T	1/1/2007		$19.00
1050 11222	UTILITY PIPE, F&I, PVC, WATER / SEWER, 2 - 4.9"	LF	T	1/1/2007		$34.96
1050 11223	UTILITY PIPE, F&I, PVC, WATER / SEWER, 5 - 7.9"	LF	T	1/1/2007		$40.84
1050 11224	UTILITY PIPE, F&I, PVC, WATER / SEWER, 8 -19.9"	LF	T	1/1/2007		$43.74
1050 11225	UTILITY PIPE, F&I, PVC, WATER / SEWER, 20 - 40.9"	LF	T	1/1/2007		$121.65

1050 11312	UTILITY PIPE, F&I, PE, CASING/CONDUIT, 2.0 - 4.9"	LF	T	1/1/2007	$19.86
1050 11313	UTILITY PIPE, F&I, PE, CASING/CONDUIT, 5.0 - 7.9"	LF	T	1/1/2007	$43.19
1050 11321	UTILITY PIPE, F&I, PE, WATER / SEWER, 0 - 1.9"	LF	T	1/1/2007	$35.36
1050 11322	UTILITY PIPE, F&I, PE, WATER / SEWER, 2 - 4.9"	LF	T	1/1/2007	$73.87
1050 11323	UTILITY PIPE, F&I, PE, WATER / SEWER, 5 - 7.9"	LF	T	1/1/2007	$99.06
1050 11324	UTILITY PIPE, F&I, PE, WATER / SEWER, 8 - 19.9"	LF	T	1/1/2007	$84.99
1050 11325	UTILITY PIPE, F&I, PE, WATER / SEWER, 20 -49.9"	LF	T	1/1/2007	$110.00
1050 11414	UTILITY PIPE, F&I, DI/CI, CASING/CONDUIT, 8 - 19.9"	LF	T	1/1/2007	$434.73
1050 11415	UTILITY PIPE, F&I, DI/CI, CASING/CONDUIT, 20 - 49.9"	LF	T	1/1/2007	$20.00
1050 11422	UTILITY PIPE, F&I, DI/CI, WATER / SEWER, 2 - 4.9"	LF	T	1/1/2007	$43.30
1050 11423	UTILITY PIPE, F&I, DI/CI, WATER / SEWER, 5 - 7.9"	LF	T	1/1/2007	$56.88
1050 11424	UTILITY PIPE, F&I, DI/CI, WATER / SEWER, 8 - 19.9"	LF	T	1/1/2007	$56.20
1050 11425	UTILITY PIPE, F&I, DI/CI, WATER / SEWER, 20 - 49.9"	LF	T	1/1/2007	$146.37
1050 11432	UTILITY PIPE, F&I, DI / CI, GAS, 2-4.9"	LF	T	1/1/2007	$5.00
1050 11433	UTILITY PIPE, F&I, DI / CI, GAS, 5-7.9"	LF	T	1/1/2007	$10.00
1050 11434	UTILITY PIPE, F&I, DI / CI, GAS, 8-19.9"	LF	T	1/1/2007	$15.00
1050 11512	UTILITY PIPE, F&I, STEEL, CASING / CONDUIT, 2.0-4.9"	LF	T	1/1/2007	$20.00
1050 11513	UTILITY PIPE, F&I, STEEL, CASING / CONDUIT, 5-7.9"	LF	T	1/1/2007	$378.50
1050 11514	UTILITY PIPE, F&I, STEEL, CASING / CONDUIT, 8.0-19.9"	LF	T	1/1/2007	$118.08
1050 11515	UTILITY PIPE, F&I, STEEL, CASING / CONDUIT, 20.0-49.9"	LF	T	1/1/2007	$378.50
1050 11921	UTILITY PIPE, F&I, SPECIAL, WATER / SEWER, 0-1.9"	LF	T	1/1/2007	$46.59
1050 11922	UTILITY PIPE, F&I, SPECIAL, WATER / SEWER, 2 - 4.9"	LF	T	1/1/2007	$46.80
1050 11924	UTILITY PIPE, F&I, SPECIAL MATERIAL, WATER / SEWER, 8 -19.9"	LF	T	1/1/2007	$130.00
1050 11925	UTILITY PIPE, F&I, SPECIAL MATERIAL, WATER / SEWER, 20-49.9"	LF	T	1/1/2007	$110.00
1050 11931	UTILITY PIPE, F&I, SPECIAL, GAS, 0-1.9"	LF	T	1/1/2007	$5.00
1050 13002	UTILITY PIPE, INSTALL, 2-4.9"	LF	T	1/1/2007	$5.43

1050 13004	UTILITY PIPE, INSTALL, 8-19.9"	LF	T	1/1/2007	$5.39
1050 14004	UTILITY PIPE, RELOCATE, 8-19.9"	LF	T	1/1/2007	$40.00
1050 15002	UTILITY PIPE, ADJUST/MODIFY, 2 - 4.9"	LF	T	1/1/2007	$5.00
1050 15003	UTILITY PIPE, ADJUST/MODIFY, 5 - 7.9"	LF	T	1/1/2007	$0.00
1050 15004	UTILITY PIPE, ADJUST/MODIFY, 8 - 19.9"	LF	T	1/1/2007	$0.00
1050 16001	UTILITY PIPE,REMOVE & DISPOSE, 0 - 1.9"	LF	T	1/1/2007	$3.51
1050 16002	UTILITY PIPE,REMOVE & DISPOSE, 2- 4.9"	LF	T	1/1/2007	$4.28
1050 16003	UTILITY PIPE,REMOVE & DISPOSE, 5- 7.9"	LF	T	1/1/2007	$11.45
1050 16004	UTILITY PIPE,REMOVE & DISPOSE, 8- 19.9"	LF	T	1/1/2007	$10.13
1050 16005	UTILITY PIPE,REMOVE & DISPOSE & DISPOSE, 20-49.9"	LF	T	1/1/2007	$24.03
1050 16006	UTILITY PIPE,REMOVE & DISPOSE & DISPOSE, 50" OR LARGER	LF	T	1/1/2007	$50.00
1050 17004	UTILITY PIPE,REMOVE & STOCKPILE/SALVAGE, 8-19.9"	LF	T	1/1/2007	$28.87
1050 17005	UTILITY PIPE,REMOVE & STOCKPILE/SALVAGE, 20-49.9"	LF	T	1/1/2007	$35.00
1050 18002	UTILITY PIPE,PLUG & PLACE OUT OF SERVICE, 2- 4.9"	LF	T	1/1/2007	$14.17
1050 18003	UTILITY PIPE,PLUG & PLACE OUT OF SERVICE, 5- 7.9"	LF	T	1/1/2007	$11.00
1050 18004	UTILITY PIPE,PLUG & PLACE OUT OF SERVICE, 8-19.9"	LF	T	1/1/2007	$19.43
1050 18005	UTILITY PIPE,PLUG & PLACE OUT OF SERVICE, 20-49.9"	LF	T	1/1/2007	$38.07
1050 19222	UTILITY PIPE, TEMPORARY, PVC, WATER/SEWER ,2-4.9"	LF	T	7/1/2007	$65.00
1050 19223	UTILITY PIPE, TEMPORARY, PVC, WATER/SEWER ,5-7.9"	LF	T	7/1/2007	$100.00
1050 19224	UTILITY PIPE, TEMPORARY, PVC, WATER/SEWER, 8-19.9"	LF	T	7/1/2007	$115.00
1050 19321	UTILITY PIPE, TEMPORARY, PE, WATER/SEWER ,0-1.9"	LF	T	7/1/2007	$65.00

1055- 1A-BCD UTILITY FITTINGS

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item for Utility JPA projects Only

For pipe up to 7.9" diameter, payment includes all fittings.
Material requirements and pressure ratings to be included in the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description,

materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1055- 1A-BCD** **UTILITY FITTINGS** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BCD=blank
4 (Relocate) BCD=blank
5 (Adjust /Modify) BCD=blank
6 (Remove & Dispose) BCD=blank, Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) BCD=blank, Note: DOT/maintaining agency retains ownership
8
9 OPEN Note: May be defined in item structure as Special, Rehab, etc.

B=Material
1 (Concrete)
2 (PVC)
3 (PE)
4 (DI/CI)
5 (Steel)
9 (Special)*

C= Fitting Type
1 (Elbow)
2 (Tee)
3 (Reducer)
4 (Union)
5 (Cap/Plug)
6 (Y)
7 (Cleanout)
9 (Special)*

D= Size or Equivalent Diameter

4 (8.0 -19.9")
5 (20.0 - 49.9")
6 (50.0" or larger)
*Sizes up to 7.9" includes the cost of all fittings

Notes * Special may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
1055 11214	UTILITY FITTINGS, F&I, PVC, ELBOW, 8.0-19.9"	EA	T	1/1/2007		$650.00
1055 11224	UTILITY FITTINGS, F&I, PVC, TEE, 8.0-19.9"	EA	T	1/1/2007		$750.00
1055 11234	UTILITY FITTINGS, F&I, PVC, REDUCER, 8.0-19.9"	EA	T	1/1/2007		$600.00
1055 11244	UTILITY FITTINGS, F&I, PVC, UNION, 8.0-19.9"	EA	T	1/1/2007		$700.00
1055 11254	UTILITY FITTINGS, F&I, PVC, CAP/PLUG, 8 - 19.9"	EA	T	1/1/2007		$750.00
1055 11264	UTILITY FITTINGS, F&I, PVC, Y FITTING, 8 - 19.9"	EA	T	1/1/2007		$605.01
1055 11274	UTILITY FITTINGS, F&I, PVC, CLEANOUT, 8 - 19.9"	EA	T	1/1/2007		$637.61
1055 11414	UTILITY FITTINGS, F&I, DI/CI, ELBOW, 8 - 19.9"	EA	T	1/1/2007		$695.63
1055 11415	UTILITY FITTINGS, F&I, DI/CI, ELBOW, 20 - 49.9"	EA	T	1/1/2007		$3,004.11
1055 11424	UTILITY FITTINGS, F&I, DI/CI, TEE, 8 - 19.9"	EA	T	1/1/2007		$802.38
1055 11425	UTILITY FITTINGS, F&I, DI/CI, TEE, 20 - 49.9"	EA	T	1/1/2007		$2,712.52
1055 11434	UTILITY FITTINGS, F&I, DI/CI, REDUCER, 8 - 19.9"	EA	T	1/1/2007		$709.99
1055 11435	UTILITY FITTINGS, F&I, DI/CI, REDUCER, 20 - 49.9"	EA	T	1/1/2007		$2,458.47
1055 11444	UTILITY FITTINGS, F&I, DI/CI, UNION, 8 - 19.9"	EA	T	1/1/2007		$643.22
1055 11445	UTILITY FITTINGS, F&I, DI/CI, UNION, 20 - 49.9"	EA	T	1/1/2007		$2,500.00
1055 11454	UTILITY FITTINGS, F&I, DI/CI, CAP/PLUG, 8 - 19.9"	EA	T	1/1/2007		$457.42
1055 11455	UTILITY FITTINGS, F&I, DI/CI, CAP / PLUG, 20 - 49.9"	EA	T	1/1/2007		$1,632.47
1055 11464	UTILITY FITTINGS, F&I, DI/CI, Y, 8 - 19.9"	EA	T	1/1/2007		$2,666.67
1055 11465	UTILITY FITTINGS, F&I, DI/CI, Y, 20 - 49.9"	EA	T	1/1/2007		$6,311.09
1055 11494	UTILITY FITTINGS, F&I, DI/CI, SPECIAL, 8.0-19.9"	EA	T	1/1/2007		$826.73
1055 11495	UTILITY FITTINGS, F&I, DI/CI, SPECIAL, 20.0-49.9"	EA	T	1/1/2007		$2,454.94
1055 11555	UTILITY FITTINGS, F&I, STEEL, CAP / PLUG, 20 - 49.9"	EA	T	1/1/2007		$3,700.00
1055 11914	UTILITY FITTINGS, F&I, SPECIAL, ELBOW, 8.0-19.9"	EA	T	1/1/2007		$1,600.00

1055 11944	UTILITY FITTINGS, F&I, SPECIAL, UNION, 8.0-19.9"	EA	T	1/1/2007	$2,500.00
1055 11954	UTILITY FITTINGS, F&I, SPECIAL,CAP/PLUG, 8.0-19.9"	EA	T	1/1/2007	$1,066.67
1055 11964	UTILITY FITTINGS, F&I, SPECIAL,Y, 8.0-19.9"	EA	T	1/1/2007	$1,000.00
1055 11994	UTILITY FITTINGS, F&I, SPECIAL MATERIAL, SPECIAL FITTING, 8.0-19.9"	EA	T	1/1/2007	$2,000.00
1055 13	UTILITY FITTINGS, INSTALL	EA	T	1/1/2007	$1,019.98
1055 15	UTILITY FITTINGS, ADJUST & MODIFY	EA	T	1/1/2007	$1,194.44

1060- 1A-BCD UTILITY STRUCTURE- BELOW GROUND

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item for Utility JPA projects Only
DO NOT USE for Milling adjustments; see 425 items for adjusting manholes & utility valves For Utility Structures BELOW ground.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References **PPM Chapter**

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1060- 1A-BCD** **UTILITY STRUCTURE- BELOW GROUND** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify) BCD= blank See detail information for milling adjustments
6 (Remove & Dispose) BCD= blank Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) BCD= blank Note: DOT/maintaining agency retains ownership
B=Utility

1 (Electrical /Communications)
2 (Water/Sewer)
3 (Other)*

C= Volume
1 (0-80 FT3)
2 (>80 FT3)

D=Depth
1 (0-6')
2 (6.1-12')
3 (>12')

Notes * Special/"other" may require Tech Spec and/or Plan Detail

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
1060 11211	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER/SEWER, 0 - 80 FT3, 0 - 6'	EA	T	1/1/2007		$3,742.82
1060 11212	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER/SEWER, 0 - 80 FT3, 6.1 - 12'	EA	T	1/1/2007		$6,966.67
1060 11213	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER/SEWER, 0 - 80 FT3, >12'	EA	T	1/1/2007		$15,533.33
1060 11221	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER / SEWER > 80 FT3, 0 - 6'	EA	T	1/1/2007		$3,206.04
1060 11222	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER / SEWER > 80 FT3, 6.1 - 12'	EA	T	1/1/2007		$4,793.27
1060 11223	UTILITY STRUCTURE, BELOW GROUND, F&I, WATER / SEWER > 80 FT3, > 12'	EA	T	1/1/2007		$11,424.21
1060 13	UTILITY STRUCTURE, BELOW GROUND, INSTALL	EA	T	1/1/2007		$6,075.00
1060 15	UTILITY STRUCTURE, BELOW GROUND, ADJUST/MODIFY	EA	T	1/1/2007		$920.40
1060 16	UTILITY STRUCTURE, BELOW GROUND, REMOVE&DISPOSE CONTRACTOR TAKES OWNERSHIP	EA	T	1/1/2007		$1,155.73
1060 17	UTILITY STRUCTURE, BELOW GROUND, REMOVE/STOCKPILE/ SALVAGE, DOT/OTHER AGENCY RETAINS OWNERSHIP	EA	T	1/1/2007		$512.98
1060 19222	UTILITY STRUCTURE, BELOW GROUND, REHAB, WATER/SEWER > 80 FT3, 6.1-12' DEEP	EA	T	1/1/2007		$6,739.90

1060- 2A- BC UTILITY STRUCTURE- ABOVE GROUND

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item for Utility JPA projects Only
For Utility Structures ABOVE ground.

Calculate pad volume as the length x width x depth of concrete. Covers are for non-electrical applications, aesthetic or weather enclosures. Material requirements to be included in the specifications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1060- 2A- BC** **UTILITY STRUCTURE- ABOVE GROUND** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate)
5 (Adjust /Modify) BCD= blank
6 (Remove & Dispose) BCD= blank Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage) BCD= blank Note: DOT/maintaining agency retains ownership

B=Pad Volume
1 (0-1 YD3)
2 (1.1-3 YD3)
3 (>3 YD3)

C=Cover
0 (without cover)
1 (with cover)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

1080- 1A-BCC **UTILITY FIXTURES**

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item for Utility JPA projects Only
Additional fixtures to be added as needed. Submit Request through District Estimates Office.

Tabulate all items in the plans.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1080- 1A-BCC** **UTILITY FIXTURES** **EA**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Relocate) BCC= blank
5 (Adjust /Modify) BCC= blank
6 (Remove & Dispose) Note: Contractor takes ownership, BCC= blank
7 (Remove & Stockpile/Salvage) Note: DOT/maintaining agency retains ownership, BCC= blank
8
9 OPEN Note: May be defined in item structure as Special, Rehab, etc.

B= Size or Equivalent Diameter
1 (0 - 1.9")*
2 (2.0 - 4.9")*
3 (5.0 - 7.9")*
4 (8.0 -19.9")
5 (20.0 - 49.9")
6 (50.0" or larger)
*NOTE: Fittings for pipe sizes up to 8" are included in the cost of the pipe. Fixtures, any size, may be paid under this item.

CC= Fixture
1 (Valve/Meter Box)
2 (Backflow Assembly)
3 (Tapping Saddle/Sleeve)
4 (Valve Assembly)
5 (Blowoff Assembly)
6 (VAC/AIR Assembly)
7 (Line Stop Assembly)
8 (Mechanical Joint Separator)
9 (Mechanical Joint Restraint)

10… submit request to expand structure
Note: CC list to be expanded as needed.

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
1080 11101	UTILITY FIXTURES, F&I, 0 - 1.9", VALVE/METER BOX	EA	T	1/1/2007		$541.97
1080 11102	UTILITY FIXTURES, F&I, 0 - 1.9", BACKFLOW ASSEMBLY	EA	T	1/1/2007		$2,000.00
1080 11103	UTILITY FIXTURES, F&I, 0 - 1.9", TAPPING SADDLE / SLEEVE	EA	T	1/1/2007		$3,599.98
1080 11104	UTILITY FIXTURES, F&I, 0 - 1.9", VALVE ASSEMBLY	EA	T	1/1/2007		$14,125.00
1080 11105	UTILITY FIXTURES, F&I, 0-1.9", BLOWOFF ASSEMBLY	EA	T	1/1/2007		$2,000.00
1080 11106	UTILITY FIXTURES, F&I, 0 - 1.9", VAC / AIR ASSEMBLY	EA	T	1/1/2007		$1,166.67
1080 11201	UTILITY FIXTURES, F&I, 2-4.9", VALVE/METER BOX	EA	T	1/1/2007		$1,600.00
1080 11202	UTILITY FIXTURES, F&I, 2 - 4.9", BACKFLOW ASSEMBLY	EA	T	1/1/2007		$5,000.00
1080 11203	UTILITY FIXTURES, F&I, 2-4.9", TAPPING SADDLE/SLEEVE	EA	T	1/1/2007		$2,166.23
1080 11204	UTILITY FIXTURES, F&I, 2-4.9", VALVE ASSEMBLY	EA	T	1/1/2007		$928.07
1080 11205	UTILITY FIXTURES, F&I, 2-4.9", BLOWOFF ASSEMBLY	EA	T	1/1/2007		$1,213.09
1080 11206	UTILITY FIXTURES, F&I, 2-4.9", VAC/AIR ASSEMBLY	EA	T	1/1/2007		$3,159.56
1080 11207	UTILITY FIXTURES, F&I, 2-4.9", LINE STOP ASSEMBLY	EA	T	1/1/2007		$2,397.69
1080 11301	UTILITY FIXTURES, F&I, 5.0 - 7.9", VALVE/METER BOX	EA	T	1/1/2007		$1,510.00
1080 11302	UTILITY FIXTURES, F&I, 5.0 - 7.9", BACKFLOW ASSEMBLY	EA	T	1/1/2007		$5,000.00
1080 11303	UTILITY FIXTURES, F&I, 5.0 - 7.9", TAPPING SADDLE/SLEEVE	EA	T	1/1/2007		$3,148.65
1080 11304	UTILITY FIXTURES, F&I, 5.0 - 7.9", VALVE ASSEMBLY	EA	T	1/1/2007		$1,126.73
1080 11305	UTILITY FIXTURES, F&I, 5.0 - 7.9", BLOWOFF ASSEMBLY	EA	T	1/1/2007		$1,264.57
1080 11307	UTILITY FIXTURES, F&I, 5-7.9", LINE STOP ASSEMBLY	EA	T	1/1/2007		$4,665.79
1080 11309	UTILITY FIXTURES, F&I, 5-7.9", MECHANICAL JOINT RESTRAINT	EA		1/1/2007		$200.00
1080 11401	UTILITY FIXTURES, F&I, 8.0 - 19.9", VALVE METER BOX	EA	T	1/1/2007		$828.27

1080 11402	UTILITY FIXTURES, F&I, 8.0 - 19.9", BACKFLOW ASSEMBLY	EA	T	1/1/2007	$7,733.33
1080 11403	UTILITY FIXTURES, F&I, 8.0-19.9", TAPPING SADDLE/SLEEVE	EA	T	1/1/2007	$5,159.64
1080 11404	UTILITY FIXTURES, F&I, 8.0-19.9", VALVE ASSEMBLY	EA	T	1/1/2007	$2,572.44
1080 11405	UTILITY FIXTURES, F&I, 8.0-19.9", BLOWOFF ASSEMBLY	EA	T	1/1/2007	$2,690.01
1080 11406	UTILITY FIXTURES, F&I, 8.0-19.9", VAC/AIR ASSEMBLY	EA	T	1/1/2007	$3,544.13
1080 11407	UTILITY FIXTURES, F&I, 8-19.9", LINE STOP ASSEMBLY	EA	T	1/1/2007	$6,299.09
1080 11408	UTILITY FIXTURES, F&I, 8-19.9", MJS ADAPTER	EA	T	1/1/2007	$5,000.00
1080 11409	UTILITY FIXTURES, F&I, 8-19.9", MECHANICAL JOINT RESTRAINT	EA	T	1/1/2007	$343.68
1080 11501	UTILITY FIXTURES, F&I, 20-49.9", VALVE/METER BOX	EA	T	1/1/2007	$5,000.00
1080 11502	UTILITY FIXTURES, F&I, 20-49.9", BACKFLOW ASSEMBLY	EA	T	1/1/2007	$5,000.00
1080 11503	UTILITY FIXTURES, F&I, 20-49.9", TAPPING SADDLE/SLEEVE	EA	T	1/1/2007	$3,301.11
1080 11504	UTILITY FIXTURES, F&I, 20-49.9", VALVE ASSEMBLY	EA	T	1/1/2007	$12,395.96
1080 11507	UTILITY FIXTURES, F&I, 20-49.9", LINE STOP ASSEMBLY	EA	T	1/1/2007	$26,099.80
1080 14	UTILITY FIXTURES, RELOCATE	EA	T	1/1/2007	$1,103.29
1080 15	UTILITY FIXTURES, ADJUST & MODIFY	EA	T	1/1/2007	$477.07
1080 15101	UTILITY FIXTURES, ADJUST & MODIFY, 0 -1.9", VALVE/ METER BOX	EA	T	1/1/2007	$357.50
1080 15404	UTILITY FIXTURES, ADJUST & MODIFY, 8 -19.9", VALVE ASSEMBLY	EA	T	1/1/2007	$788.40
1080 16	UTILITY FIXTURES, REMOVE & DISPOSE	EA	T	1/1/2007	$478.98
1080 16401	UTILITY FIXTURES, REMOVE & DISPOSE,8 -19.9", VALVE / METER BOX	EA	T	1/1/2007	$1,492.07
1080 17	UTILITY FIXTURES, REMOVE, STOCKPILE / SALVAGE	EA	T	1/1/2007	$323.17
1080 19408	UTILITY FIXTURES, SPECIAL, 8-19.9", MJS ADAPTER	EA	T	1/1/2007	$1,000.00

1135- A UTILITY- GUYS AND ANCHORS- ABOVE GROUND

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item for Utility JPA projects Only- NEW installations only.
Protection of existing structures during construction is incidental to the work being performed.
For ABOVE GROUND installations only.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status **Inactive Structure**

Struct. **1135- A** **UTILITY- GUYS AND ANCHORS- ABOVE GROUND** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4 (Salvage & Store/Reuse)
5 (Adjust & Modify Or Relocate)
9 (Remove)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

1501- 1- UTILITY LIFT STATION, SANITARY SEWER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item for Utility JPA projects Only
Includes pump(s), power, internal piping, housing, and incidentals associated with the station.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**		

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s)

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1501- 1-** **UTILITY LIFT STATION, SANITARY SEWER** **EA**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
1501 1	LIFT STATION, SANITARY SEWER	EA	T	1/1/2007		$270,333.33

1644-ABC-DEE FIRE HYDRANT

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details

This pay item for Utility JPA projects Only
Items to be used for Water Main & Service Applications.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items **Required** **Recommended**

Forms **Design** SHTabQuant COMP 700-050-03

Construction Refer to Comp Book

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.

Construction Record final quantity on the tabulation sheet (plans) or computation form (comp book).

References

PPM Chapter

Other

Standards

Specifications

Plan Detail and/or Tech Spec Required

Prep & Doc Manual Chapter(s) 7, 13

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1644-ABC-DEE** **FIRE HYDRANT** **EA**

A = Operation

1 (Furnish & Install)
2 (Furnish)
3 (Install) BC = 00, DEE = Blank
4 (Salvage & Store) BC = 00, DEE = Blank
5 (Salvage & Reuse) BC = 00, DEE = Blank
6 (Plug & Placed Out Of Service) BC = 00, DEE = Blank
7 (Adjust & Modify) BC = 00, DEE = Blank
8 (Relocate) BC = 00, DEE = Blank
9 (Remove) BC = 00, DEE = Blank

B = Type Of Hydrant
1 (Standard)
2 (Airport)
3 (Traffic)

C = Number Of Ways
1 (Hose)
2 (Two Hose)
3 (Two Hose, One Pumper)
4 (2 Way, Flush Type, One Hose, One Pumper)
5 (4 Way, Three Hose, One Pumper)
6 (3 Way, Two Hose, One Pumper)

D = (Open Leave Blank)

EE = Size
05 (2")
08 (6")
09 (8")

Notes Note: Do Not Code Leading Zeros.

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
1644113 05	FIRE HYDRANT, F&I, STANDARD, 2 HOSE, 1PUMPER, 2"	EA	T	1/1/2007		$10,000.00
1644113 08	FIRE HYDRANT, F&I, STANDARD, 2 HOSE, 1PUMPER, 6"	EA	T	1/1/2007		$3,998.62
1644114 08	FIRE HYDRANT, STANDARD, F&I, 2 WAY,FLUSH TYPE, 1 HOSE, 1 PUMPER,6"	EA	T	1/1/2007		$3,906.00
1644116 08	FIRE HYDRANT, STANDARD, F&I, 3 WAY, 2 HOSE, 1 PUMPER, 6"	EA	T	1/1/2007		$3,906.00
1644116 09	FIRE HYDRANT, STANDARD, F&I, 3 WAY, 2 HOSE, 1 PUMPER, 8"	EA	T	1/1/2007		$3,941.89
1644133 08	FIRE HYDRANT, F&I, TRAFFIC, 2 HOSE, 1PUMPER, 6"	EA	T	1/1/2007		$3,270.35
1644136 08	FIRE HYDRANT, F&I, TRAFFIC, 3 WAY - 2 HOSE, 1PUMPER, 6"	EA	T	1/1/2007		$2,972.01
1644400	FIRE HYDRANT, SALVAGE & STORE	EA	T	1/1/2007		$700.94
1644700	FIRE HYDRANT, ADJUST & MODIFY	EA	T	1/1/2007		$1,422.23
1644800	FIRE HYDRANT, RELOCATE	EA	T	1/1/2007		$2,254.51
1644900	FIRE HYDRANT, REMOVE	EA	T	1/1/2007		$467.87

1720-ABB- UTILITY WORK- TRANSFORMER

Unit EA **Accuracy** Each **PlanQuantity?** no

Notes

Details This pay item for Utility JPA projects Only
Plans or Technical Specifications must detail item, materials, construction/installation requirements, as well as compensation.

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1720-ABB-** **UTILITY WORK- TRANSFORMER** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install) BB=00
8 (Relocate) BB=00
9 (Remove) BB=00

BB = Configurations
01 (25 kVA Continuous Single Phase)
02 (75 kVA Continuous Single Phase)
03 (250 kVA Continuous Single Phase)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
1720103	TRANSFORMER, F&I, 250 KVA CONTINUOUS SINGLE PHASE	EA	T	1/1/2007		$0.00

1820- 1- AB UTILITY CABLE, TELEPHONE/COMMUNICATIONS

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This pay item for Utility JPA projects Only

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**		
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1820- 1- AB** **UTILITY CABLE, TELEPHONE/COMMUNICATIONS** **LF**

A= Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)*
4 (Relocate)*
5 (Adjust /Modify)*
6 (Remove & Dispose)* Note: Contractor takes ownership
7 (Remove & Stockpile/Salvage)* Note: DOT/maintaining agency retains ownership
8 (Place out of Service)*
9 OPEN Note: May be defined in item structure as Special, Rehab, etc.
* When A=3-9, B=0

B= # of pairs
1 (up to 10 pair)
2 (11-50 pair)
3 (50-100 pair)
4 (greater than 100 pair)

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
1820 1 60	UTILITY CABLE, TELEPHONE/COMMUNICATIONS, REMOVE AND DISPOSE, CONTRACTOR TAKES OWNERSHIP	LF	T	1/1/2007		$3.27

1820- 2- AB **UTILITY FIBER OPTIC, TELEPHONE/COMMUNICATIONS**

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** no

Notes

Details This pay item for Utility JPA projects Only

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.

Related Items	**Required**		**Recommended**
Forms	**Design**	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	**Design**		
	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
References	**PPM Chapter**		
	Other		
	Standards		
	Specifications		
		Plan Detail and/or Tech Spec Required	
	Prep & Doc Manual Chapter(s)		

TRNS*PORT Category (DRAFT FIELD): 0700 Utilities

Status

Struct. **1820- 2- AB** **UTILITY FIBER OPTIC, TELEPHONE/COMMUNICATIONS** **LF**

Notes

The following items were open, as of the publication date. Refer to the Master Pay Item list for current items.

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date	LRE Ref Price
1820 2 60	UTILITY FIBER OPTIC,TELEPHONE COMMUNICATIONS, REMOVE & DISPOSE, CONTRACTOR TAKES OWNERSHIP	LF	T	1/1/2007		$1.21

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BOE

Basis of Estimates

Chapter 21

Master Pay Item List

Note date on report.

Designers should use current (online) report for latest information

Items added upon request. See Chapter 6 for details.

State Specifications and Estimates Office
Estimating Systems Support Section

BOE

Basis of Estimates

Appendices

State Specifications and Estimates Office
Estimating Systems Support Section

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