

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

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

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

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

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

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

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	Construction	COMP 700-050-03
Documentation	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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

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	Construction	COMP 700-050-03

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

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

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 Construction 700-050-51	COMP 700-050-03
Documentation	Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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, ED
BARRIER WALL MOUNT

Notes

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 Construction Refer to Comp Book	COMP 700-050-03
Documentation	Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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 Block Pending

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

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

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

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

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

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

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					

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

102-150- 1	PORTABLE REGULATORY SIGN		
	Unit	Accuracy	PlanQuantity?
	ED	Each Day	no
Notes			
Details	<p>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.</p> <p>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.</p>		
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

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

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

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

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

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

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

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

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

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

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

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.

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)
1 (Special) Plan Detail and/or Tech Spec Required

Notes

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

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

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

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

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**

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

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

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

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

110- 5- PLUGGING WATER WELL- ARTESIAN

Unit ED **Accuracy** Each Day **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** **ED**

Notes

110- 6- PLUGGING WATER WELL- NON-ARTESIAN

Unit ED **Accuracy** Each Day **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** **ED**

Notes

110- 7- A MAILBOX - FURNISH AND INSTALL

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 - FURNISH AND INSTALL EA

A = Description
1 (Furnish & Install Single)

Notes

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

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

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- LF**
REHAB PROJECTS ONLY

Notes

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

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
Construction 700-050-56

COMP 700-050-04

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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

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

Struct. 110- 86- DELIVERY OF SALVAGEABLE MATERIAL TO FDOT LS/LS

Notes

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

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 + (Fill X Fill Adjustment) X Truck Adjustment = Borrow Excavation (Truck Measure). 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

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

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

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

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

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

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
	Design	SHTabQuant	COMP 700-050-04
Forms	Construction	Refer to Comp Book	
	Documentation	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
References	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
	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

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
	Design	SHTabQuant	COMP 700-050-04
Forms	Construction	Refer to Comp Book	
	Documentation	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.
References	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
	PPM Chapter		
	Other		
	Standards	Index No. 307	
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

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

Status

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

144- 1- A DIGITAL INCLINOMETER CASING

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

Notes Future use will require Specification Development

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 Future use will require Specification Development

144- 71- PORE-PRESSURE TRANSDUCER (PIEZOMETER)

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

Notes Future use will require Specification Development

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 Future use will require Specification Development

144- 72- TUBING FOR PIEZOMETER

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

Notes Future use will require Specification Development

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	

	<i>TRNS*PORT Category (DRAFT FIELD):</i>	0200	Roadway
Status			
Struct.	144- 72-	TUBING FOR PIEZOMETER	LF
Notes	Future use will require Specification Development		

144- 73-	DIGITAL INCLINOMETER		
	Unit	EA	Accuracy Each
			PlanQuantity? no
Notes	Future use will require Specification Development		
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	

	<i>TRNS*PORT Category (DRAFT FIELD):</i>	0200	Roadway
Status			
Struct.	144- 73-	DIGITAL INCLINOMETER	EA
Notes	Future use will require Specification Development		

144- 74-		PORE-PRESSURE TRANSDUCER- CONTROL/READOUT UNIT	
	Unit EA	Accuracy Each	PlanQuantity? no
Notes	Future use will require Specification Development		
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)		

	<i>TRNS*PORT Category (DRAFT FIELD):</i> 0200 Roadway		
Status			
Struct.	144- 74-	PORE-PRESSURE TRANSDUCER- CONTROL/READOUT UNIT	EA
Notes	Future use will require Specification Development		

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	

	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		

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.	

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

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

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

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

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
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

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

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).

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

180- 72- STABILIZED SUBBASE, 6"

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- STABILIZED SUBBASE, 6" SY

Notes

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

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

220- 1- AA SHAPE & COMPACT BASE

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

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. 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. 220- 1- AA **SHAPE & COMPACT BASE** **SY**

Notes Code Same As 220- 70-AAA

220- 70- AA SHAPE & COMPACT EXISTING BASE

Unit SY; M2 **Accuracy** Square Yard; Square Meter **PlanQuantity?** yes

Notes

Details Refer to specifications for correct usage; consider optional base pay item when possible. Verify with construction prior to 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
Forms **Required** **Recommended**
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. 220- 70- AA **SHAPE & COMPACT EXISTING 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 D-CSE = Double Course
T-CSE = Triple Course

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

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

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.

Documentation	Construction	700-050-54
	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.
References	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
	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

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

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

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, Gyrotory 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

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 1 1/2 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 1 1/2 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)

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

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

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

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

350- 2- AA	CEMENT CONCRETE PAVEMENT, REINFORCED		
Unit	SY; M2	Accuracy	Square Yard; Square Meter
PlanQuantity?	yes		

Notes

Details Consists of placement of reinforced 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- 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

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).	

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

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

22.2.2 of the Specifications.

Misc Concrete: Estimate 5 CY (5 M3) minimum

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.

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

43 (Superstructure Self-Consolidating Concrete) Class VI

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

400- 0-AAA		CLASS NS 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- 0-AAA CLASS NS CONCRETE CY

AAA = Class 0 Applications
11 (Retaining Walls) Gravity Wall, Index 520 **Effective 7/2009**
13 (Concrete Steps) Index 521 **Effective 7/2009**

Notes

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)
11 (Retaining Walls) Gravity Wall, Index 520 **Valid through 6-30-2009; replaced by Class NS Gravity Wall**
15 (Miscellaneous) **Valid through ???**

Notes

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)

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

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

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

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

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

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

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

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

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

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

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

400- 60- A CATHODIC PROTECTION- ELECTRICAL WORK

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

Notes

Details

This item is under development by the State Materials Lab. Contact the Materials Lab prior to using this item.
NOTE: 3 pay items (power, conduit, and equipment, as described below) are needed for a complete electrical system. Use with either 400-142, 455-81, or 457-71.
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 457-71.	Recommended
Forms	Design	SHTabQuantLS	COMP 700-050-05

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

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

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

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

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
Documentation	Construction	Refer to Comp Book		
	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.		
References	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.		
	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

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
Documentation	Construction	Refer to Comp Book		
	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.		
References	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.		
	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

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

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

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, 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

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

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

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

400-142- A CATHODIC PROTECTION SYSTEM

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

Notes

Details

This item is under development by the Materials Lab. Contact State Materials Office, Corrosion Lab for assistance in use of this item.
Intended for rehabilitation projects when galvanic or impressed current cathodic systems are used for mass concrete or structural components. Show locations in plans w/ quantity block.

Use Item 400-60 for Electrical Work associated with this item.

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 =
 1 (Raychem) valid through 6/30/06
 2 (Eltech) valid through 6/30/06
 3 (Zinc Aluminum Spray)
 4 (Zinc Aluminum Sheets)
 6 (Titanium Sheets) valid through 6/30/06
 7 (Titanium Mesh) effective 7/1/06
 8 (Titanium Bars) effective 7/1/06
 9 (Other) effective 7/1/06

Notes

400-143- CLEANING AND COATING CONCRETE SURFACES, CLASS 5

Unit SF; M2 **Accuracy** Square Foot; 10th of a Square Meter **PlanQuantity?** yes

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

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

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).	

100th of a Cubic Meter

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
Construction Refer to Comp Book

COMP 700-050-04

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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

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

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

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

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

References **Construction**
 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

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

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.

Notes

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

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

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	SBD RST	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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

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 =		

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

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

425- 6- VALVE BOX- ADJUST

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

Notes

Details

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

Forms **Design** SBD RST COMP 700-050-03

Construction Refer to Comp Book

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

425- 8- DRAINAGE STRUCTURES, MISCELLANEOUS- ADJUST

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

Notes

Details

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

Forms **Design** SBD RST COMP 700-050-03

Construction Refer to Comp Book

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

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

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

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

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**

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

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

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

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

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

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

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

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.

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

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")
- 34
- 38 (36")
- 40 (42")
- 41 (48")
- 42 (54")
- 43 (60")
- 44 (66")
- 45 (72")

Notes

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.

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

quantities sheet in the plans, or detail 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

430-860- A STORM SEWER TRENCH

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

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

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

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

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		
<hr/>			
	<i>TRNS*PORT Category (DRAFT FIELD):</i>	0200	Roadway
Status	Inactive Structure		
Struct.	430-970-	PROTECTIVE PIPE BEDDING	LF
Notes	Contact the State Drainage Office prior to opening.		

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

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

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

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

435- 1- AB 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- AB** **STRUCTURAL PLATE PIPE CULVERT** **LF**

A= Thickness

values to be provided by State Drainage Office

B= Size

values to be provided by State Drainage Office

Notes Coordinate the use of this item with the State Drainage Office prior to requesting pay items.

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

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 (15" Diameter Standard)
2 (Special)*

Notes * Special may require Tech Spec and/or Plan Detail

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

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					

<i>TRNS*PORT Category (DRAFT FIELD):</i> 0200 Roadway						
Status						
Struct.	440- 70-	UNDERDRAIN INSPECTION BOX			EA	
Notes						

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					

<i>TRNS*PORT Category (DRAFT FIELD):</i> 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

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

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

455- 34- AA PRESTRESSED CONCRETE PILING

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

Notes

Details

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

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

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

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

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.

(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

455- 81-ABB CATHODIC PROTECTION

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

Notes

Details This item is under development by the State Materials Lab. Contact State Materials Office, Corrosion Lab for assistance in use of this item. 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.
Electrical Work paid under item 400-60-A.
See items 400-142 (structure) and 457-71 (pile jacket) for other types of Cathodic Protection.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

455-137- LOAD TEST- DYNAMIC

	Unit	EA	Accuracy	Each	PlanQuantity?	no
Notes						
Details						
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

455-142-	CROSSHOLE SONIC LOGGING					
	Unit	EA	Accuracy	Each	PlanQuantity?	no
Notes						
Details						
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

455-143- AA TEST PILES- PRESTRESSED CONCRETE

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.
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

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

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

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

457- 1- AB STANDARD INTEGRAL PILE JACKET

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

Notes **PENDING SPECIFICATION- New Item effective 1-1-2009; replaces 457-70 items**

Details Intended for rehabilitation projects to repair concrete pile corrosion damage. Contact State Materials Office, Corrosion Lab for assistance in use of this item. Show locations in plans w/ quantity block.

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.

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

457- 2- AB **CATHODIC PROTECTION INTEGRAL PILE JACKET**

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

Notes

PENDING SPECIFICATION- New Item effective 1-1-2009; replaces 457-71 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 in plans w/ quantity block.

Electrical Work paid under item 400-60-A, when required.

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

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

457- 71- AB CATHODIC PROTECTION- INTEGRAL PILE JACKET

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

Notes **PENDING SPECIFICATION- 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 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

458- 1- AB BRIDGE DECK EXPANSION JOINT	
Unit	LF; M1
Accuracy	Linear Foot; 10th of a Meter
PlanQuantity?	
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

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

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

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

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

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

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 **Recommended**

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

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.

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

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

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

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

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

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

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

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

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

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

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.

- 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

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

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

465- 20- MOVABLE BRIDGE- PREVENTATIVE MAINTENANCE

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

Notes

Details

This item covers the cost of maintaining 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

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

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

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 = $800 \times 12 \times 6 / 12,000 = 4.8$ MB

800' - 12X6 Dressed Lumber (Dressed 11 1/2" X 5 1/2") = $800 \times 11.5 \times 5.5 / 12,000 = 4.2$ 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

471- 1- A FENDER SYSTEM, PLASTIC MARINE LUMBER

Unit MB; M3 **Accuracy** 10th of a Thou Board Measure; 10th of a Cubic Meter **PlanQuantity?**

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

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

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

505- 1- AB FIRE SUPPRESSION SYSTEM

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

Notes

Details

Coordinate the use of this item with the State Structures Design Office
Tech Spec should indicate that this is a complete system, including all lines, fittings, incidentals, and testing.

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. 505- 1- AB FIRE SUPPRESSION SYSTEM LF

A=location
1 (Bridge)

B= System Type
1 (Dry Line System)

Notes

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

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

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

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

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

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

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

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

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
----------------------	-----------------	--------------------

**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

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 EA

CONTROLLER

- A = 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- 4 (Remove)
- 5 (Programming)

Notes

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

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

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

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).	

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

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

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

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

514- 71- A FILTER FABRIC, PLASTIC

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

Notes

Details

Roadway Design and Structures Design should coordinate when this item is used. Intended for Subsurface Drainage or Stabilization applications, as detailed in Section 514 of Specifications.

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

514- 72- LINER IMPERMEABLE PVC

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

Meter

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

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.

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

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

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)

Documentation

Construction Refer to Comp Book

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

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)

Documentation	Construction	Refer to Comp Book
	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.
References	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
	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

520- 3- VALLEY GUTTER, CONCRETE

Unit LF; M1 **Accuracy** Linear Foot; 10th of a Meter **PlanQuantity?** yes

Notes

Details

Related Items

Forms

Required	Recommended
Design SHTabQuant	COMP 700-050-02 (with deductions) or 700-050-03 (no deductions)

Documentation	Construction	Refer to Comp Book
	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.
References	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
	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

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)

Documentation **Construction** Refer to Comp Book

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

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)

deductions)

Documentation	Construction	Refer to Comp Book
	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.
References	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
	PPM Chapter	
	Other	
	Standards Specifications	Index No. 300, 302, 212, 213
	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

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)

Documentation	Construction	Refer to Comp Book
	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

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

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

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

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 retaining 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

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

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

521- 72- AA SHOULDERS 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

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

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 retrofit 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

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**

Documentation	Construction	Refer to Comp Book
	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.
References	Construction	Final pay quantity will be PLAN QUANTITY with proper consideration for Specification tolerances.
	PPM Chapter	
	Other	
	Standards Specifications	Index No. 282, 304, 310
	Prep & Doc Manual Chapter(s)	

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

Status

Struct. 522- 2- CONCRETE SIDEWALK, 6" THICK SY

Notes

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

523- 1- A PATTERNED / TEXTURED PAVEMENT

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

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.

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. 523- 1- A **PATTERNED / TEXTURED PAVEMENT** **SY**

A= Underlying Pavement Material
1 (Asphalt)
2 (Concrete)

Notes

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

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

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

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

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

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

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

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.

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

Specifications

Prep & Doc Manual Chapter(s) 6, 13

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

Status

Struct. 530- 1- **RIPRAP- SAND - CEMENT** **CY**

Notes

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: $W = Vol.s \times S.G. \times Ww \times Vf$

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

530- 74-	BEDDING STONE		
	Unit	TN; MT	
	Accuracy	10th of a Ton; 10th of a Metric Ton	
	PlanQuantity?	no	
Notes	Quantities should be based on 115 lbs per cubic foot (1840 kg per cubic meter).		
Details			
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

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

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

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

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

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

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

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

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

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

536- 76- GUARDRAIL POSTS- SPECIAL LENGTH

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- 76- GUARDRAIL POSTS- SPECIAL LENGTH EA

Notes

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 EA
WALL

Notes

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

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

538- 1- GUARDRAIL- RESET

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

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

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

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

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

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

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

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

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.

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

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

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

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

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

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-xxa

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

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

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

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

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

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

*TRNS*PORT Category (DRAFT FIELD):* 0100 Structures

Status

Struct. 560- 1- PAINTING STRUCTURAL STEEL- REHAB LS/TN

Notes

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

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	<p>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.</p> <p>Per Section 570 specification, the Statewide Disputes Review Board specifications must be included on projects with this item.</p>		
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	<p>PPM Chapter</p> <p>Other</p> <p>Standards</p> <p>Specifications</p> <p>Prep & Doc Manual Chapter(s)</p>		

*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

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

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

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

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

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 Construction Refer to Comp Book	COMP 700-050-03
Documentation	Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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

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 Construction Refer to Comp Book	COMP 700-050-03
Documentation	Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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)

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

630- 1- AB SIGNALS- CONDUIT

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 '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

Documentation **Design** Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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
	<p>A = Operation 1 (Furnish & Install) 2 (Furnish) 3 (Install)</p> <p>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)</p>		

Notes

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
	<p>A = Operation 1 (Furnish & Install) 2 (Furnish) 3 (Install) 4 (Adjust)</p>		

Notes

632- 7- A SIGNALS- CABLE

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

633-ABC- D SIGNALS- FIBER OPTIC 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. 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

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

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

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

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

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.

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 = 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

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

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

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

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

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

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

References **PPM Chapter**
 Other
 Standards Index No. 17725
 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. **641- AB-CDD** **PRESTRESSED CONCRETE POLES** **EA**

- A =
 1 (Furnish & Install - With foundation)
 2 (Furnish)
 3 (Install) When A=3, B=0 And CDD=blank.
 4 (Furnish & Install - Direct Burial)
 5 (Install - Direct Burial) When A=5, B=0 and CDD=blank.
 B = Pole Type
 1 (Type N-II Service Pole)
 2 (Type N-III Service Pole)
 3 (Type N-IV)
 4 (Type N-V)
 5 (Type N-VI)
 6 (Type N-VII)
 7 (Type N-VIII)
 8 (Special Design)*
 C = Pole Design Status
 1 (1991 Design Change)
 DD = Pole Length

Notes * Special may require Tech Spec and/or Plan Detail

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

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

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

649- A-BCC STRAIN POLES, STEEL

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

Notes **Valid through December 2007; replaced by 649-1-AB.**

Details This pay item is for traffic signals and traffic control devices only. Refer to Index No. 17723 for details. No PPM details; no additional sheets required. Specify steel strain poles on the plan sheet. English standards may be used on metric projects. Required pole is selected by the Designer and noted 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 Index No. 17723

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- A-BCC STRAIN POLES, STEEL EA

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)

B = Pole Type
1 (Type NS-IV)
2 (Type NS - V)
3 (Type NS-VI)
4 (Type NS-VII)
5 (Type NS - VIII)
6 (Type NS-IX)
7 (Type NS - X)
0 (Special)*

CC = Pole Height in even integers 20' – 50'
20= 20'
22= 22'

Notes *B=0 may require Tech Spec or Plan Detail

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

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)

- 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

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

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

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.

	Construction	Refer to Comp Book
Documentation	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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

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	

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

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)

665- AB- PEDESTRIAN DETECTOR

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

Notes

Details This pay item is for traffic signals and traffic control devices only.
For Relocate, ensure that plans/specs

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
- B = Assembly Type
- 1 (Pole Or Controller Cabinet Mounted Detector Station)
- 2 (Detector Station With Post)
- 3 (Detector With Sign Only)

Notes

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

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

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

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

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

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

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)

- 01 (CRT Display)
- 02 (Panel Board Map)
- 03 (Projected Display)

Notes

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

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

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

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

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

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

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

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	
	Design	SHTabQuant	COMP 700-050-03
Forms	Construction	Refer to Comp Book	
	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail calculations in the computation book.	
Documentation	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

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
	Design	SHTabQuant
Forms		

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

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

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

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

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

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

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

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

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

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.

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.

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.

If lighting is needed, detail in plans (no separate 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

Forms

Design

SHTabQuant

COMP 700-050-03

Construction

Refer to Comp Book

Documentation

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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

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.

If lighting is needed, detail in plans (no separate 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

Forms

Design

SHTabQuant

COMP 700-050-03

Construction

Refer to Comp Book

Documentation

Design

Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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

700- 42-AAB	OVERHEAD TRUSS SPAN SIGN		
	Unit AS	Accuracy Assembly	PlanQuantity? no
Notes	Valid through December 2007; replaced by 700-22 and 700-23 items.		
Details	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.		
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. 11200	
	Specifications		
	Prep & Doc Manual Chapter(s) 7, 13		

*TRNS*PORT Category (DRAFT FIELD):* 0300 Signing and Pavement Markings

Status

Struct. 700- 42-AAB OVERHEAD TRUSS SPAN SIGN 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)
- 12 (221 - 240)
- 13 (241 - 260)
- 14 (261- 280)

B = Square Footage Of Sign Panel

- 1 (100 Or Less)
- 2 (101 - 200)
- 3 (201 - 300)
- 4 (301 - 400)
- 5 (401 - 500)
- 6 (501 - 600)
- 7 (601 - 700)
- 8 (Over 700)

Notes

700- 43- AB OVERHEAD TRUSS CANTILEVER SIGN

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes **Valid through December 2007; replaced by 700-22 and 700-23 items.**

Details 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.

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. 11200

Specifications

Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0300 Signing and Pavement Markings

Status

Struct. **700- 43- AB** **OVERHEAD TRUSS CANTILEVER SIGN** **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 - 100)

3 (101 - 150)

4 (151 - 200)

5 (201 - 250)

6 (251 - 300)

7 (Over 300)

Notes

700- 44-AAB LIGHTED OVERHEAD TRUSS SPAN SIGN

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes	Valid through December 2007; replaced by 700-22 and 700-23 items.		
Details	Includes sign panels, overhead structure, foundations, 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 foundation 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	Index No. 11200, 17505	
	Specifications		
	Prep & Doc Manual Chapter(s) 7, 13		

*TRNS*PORT Category (DRAFT FIELD):* 0300 Signing and Pavement Markings

Status

Struct. 700- 44-AAB LIGHTED OVERHEAD TRUSS SPAN SIGN 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)
- 12 (Over 220)

B = Square Footage Of Sign Panel

- 1 (100 Or Less)
- 2 (101 - 200)
- 3 (201 - 300)
- 4 (301 - 400)
- 5 (401 - 500)
- 6 (501 - 600)
- 7 (601 - 700)
- 8 (Over 700)

Notes

700- 45- AB LIGHTED OVERHEAD TRUSS CANTILEVER SIGN

Unit AS **Accuracy** Assembly **PlanQuantity?** no

Notes	Valid through December 2007; replaced by 700-22 and 700-23 items.		
Details	Includes sign panels, overhead structure, foundations, 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 foundation 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	Index No. 11200, 17505	
	Specifications		
	Prep & Doc Manual Chapter(s) 7, 13		

*TRNS*PORT Category (DRAFT FIELD):* 0300 Signing and Pavement Markings

Status

Struct. 700- 45- AB LIGHTED OVERHEAD TRUSS CANTILEVER SIGN 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 - 100)
- 3 (101 - 150)
- 4 (151 - 200)
- 5 (201 - 250)
- 6 (251 - 300)
- 7 (Over 300)

Notes

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

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

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

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

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

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.

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

700- 94- RADAR SPEED DISPLAY UNIT

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

Notes **DO NOT OPEN- New Item(s) under development.**

Details Standards and/or Specifications are under development by the State Traffic Ops Office. New Item expected to be 698-xxx.

This item for permanent installations only; for temporary installations, refer to 102 items. Tech Spec should indicate that unit includes sign, radar unit, post, cabinet, power connection(s), and incidentals necessary for a complete unit.

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):* 0300 Signing and Pavement Markings

Status

Struct. 700- 94- **RADAR SPEED DISPLAY UNIT** **EA**

Notes DO NOT OPEN- see details

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

Documentation	Construction	Refer to Comp Book
	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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

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.

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

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

704- 1- AB CERAMIC PAVEMENT MARKERS

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. 17346	
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

TRNS*PORT Category (DRAFT FIELD): 0300 Signing and Pavement Markings

Status

Struct. 704- 1- AB CERAMIC PAVEMENT MARKERS EA

- A = Operation
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- B =
- 1 (Class A)
- 3 (Class C)

Notes

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.

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

706- 3- RETRO-REFLECTIVE PAVEMENT MARKER

	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. 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

709- 1A-BCD TRAFFIC STRIPE- TWO REACTIVE COMPONENTS						
	Unit	EA, LF, GM, NM; GK, NK	Accuracy	Each; Linear Foot; 1/1000 mile	PlanQuantity?	
Notes						
Details						
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 C= 6 to 9 for messages, arrows, etc are not valid for 709. Consider using preformed Thermoplastic or other material.

710- 1A-BCD PAINTED PAVEMENT MARKINGS

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes **Effective January 2007 letting; replaces most other 710 items. 6-29-07: Updated detail and C=8 for Yield Line, LF**

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.

LINEAR FOOT ITEMS: Intended for all solid stripe 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 ITEMS: Intended for all 6" solid stripe. The gross mile quantity shall also 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.

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 items 710-17 is 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 removal of thermo prior to applying more thermo because the maximum thickness will be exceeded if it 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.

CONTRASTING ALTERNATING SKIP: Use one application of white skip thermoplastic and one application of black skip paint.

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.

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

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, 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

711- 1A-BCD THERMOPLASTIC

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes

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.
LINEAR FOOT ITEMS: The linear foot quantity shall be used to pay for 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 ITEMS: 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.
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 LINES: Per the MUTCD, a Yield line is a series of solid white triangles pointing toward approaching vehicles, used at an intersection controlled by a yield sign.

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 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.

713-1AA-BCD PAVEMENT MARKING- PREFORMED TAPE

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?** no

Notes

Details 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.

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)
 - 03 (Temporary)
 - 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
 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.
 *See details for guidance on class selection

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

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

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

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
	Construction	Refer to Comp Book
Documentation	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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

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

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

Forms	Design	SHTabQuant	COMP 700-050-03
	Construction	Refer to Comp Book	
Documentation	Design	Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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

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

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

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

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

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

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

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

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

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

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.

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

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

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

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

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)					

<i>TRNS*PORT Category (DRAFT FIELD):</i> 0400 Lighting						
Status						
Struct.	715- 21- 1		LUMINAIRE STARTER BOARD			EA
Notes						

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					

<i>TRNS*PORT Category (DRAFT FIELD):</i> 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

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

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

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

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

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

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

715- 4A-BCC		ALUMINUM LIGHT POLE- COMPLETE	
	Unit	EA	Accuracy Each PlanQuantity? no
Notes	Valid through December 2007; replaced by 715-4-ABC.		
Details	to be used in accordance with Index. Verify case number on standard. For special designs, refer to pay item 715-5AB-CDD.		
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 17515	
	Specifications		
	Prep & Doc Manual Chapter(s)	7, 13	

*TRNS*PORT Category (DRAFT FIELD):* 0400 Lighting

Status

Struct. 715- 4A-BCC ALUMINUM LIGHT POLE- COMPLETE EA

- 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
- B= Structure Height
- 1 (Up to 25')
- 2 (26'-39')
- 3 (40'-49')
- 4 (50' and greater)
- CC= Case Number defined on standards

Notes

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

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

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

715-19A-BBB HIGH MAST LIGHT POLE, COMPLETE

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

Notes **Valid through December 2007; replaced by 715- 19-ABC**

Details Includes the pole, luminaire ring and lowering assembly, luminaires with lamps, anchor bolts with lock nuts and washers, and base plate assembly.

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
 Prep & Doc Manual Chapter(s) 7, 13

*TRNS*PORT Category (DRAFT FIELD):* 0400 Lighting

Status

Struct. **715-19A-BBB** **HIGH MAST LIGHT POLE, COMPLETE** **EA**

A = Operation
1 (Furnish & Install)
2 (Furnish)
3 (Install)
4
5 (Remove)
6 (Rework)
BBB = Mounting Height (In Feet)

Notes

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

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

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

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

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

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

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

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

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
Construction Refer to Comp Book

COMP 700-050-03

Documentation

Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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

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

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

735- 74- AA TOLL PLAZA

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

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. 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

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

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

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

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

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 Construction Refer to Comp Book	COMP 700-050-03
Documentation	Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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

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 Construction Refer to Comp Book	COMP 700-050-03
Documentation	Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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

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

735- 88- TOLL PLAZA MODIFY EXISTING

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

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 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- TOLL PLAZA MODIFY EXISTING LS/LS

Notes

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

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

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**

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

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
--------------	--------------------------	-----------------

Documentation	Construction	Refer to Comp Book
----------------------	---------------------	--------------------

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

Documentation	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

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)						

<i>TRNS*PORT Category (DRAFT FIELD):</i> 0200 Roadway						
Status						
Struct.	736- 75-	RAILROAD CROSSING SIGNAL (CLASS II, TYPE 1)			EA	
Notes						

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).						

Struct. 737- 71- A ELECTRONIC UTILITY DESIGNATE LF

- A =
1 (Underground)
2 (Under Pavement)
3 (Electronic - Horizontal)
4 (Underwater)

Notes

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

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

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

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

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

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

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

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

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

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

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

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

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**

*TRNS*PORT Category (DRAFT FIELD):* 0800 Architectural

Status

Struct. 751- 5- **ARCHITECTURAL- SANITARY SEWER/SEWAGE TREATMENT** **LS/LS**

Notes

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

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

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	
	Construction	
References	PPM Chapter	
	Other	
	Standards	
	Specifications	
	Prep & Doc Manual Chapter(s)	

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

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

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

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

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).	

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

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

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.

781- 2- AB ITS HIGHWAY ADVISORY RADIO

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

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

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

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

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

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

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

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.

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

Notes

*B=8: Tech Spec needed until specification section is updated. Coordinate the use of this item with ITS Office.

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.

783- 4- AB ITS CONDUIT

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

Notes

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 receiver).

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.

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.

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

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.

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)

Notes

783- 7- A ITS PULL AND JUNCTION BOX

	Unit EA	Accuracy Each	PlanQuantity? no
Notes			
Details	For use on ITS projects. Specs may refer to section 635 for 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.		

	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.		
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

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.

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

783- 9- AB ITS LOCATE SYSTEM ELECTRONIC EQUIPMENT

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

Notes **Effective July 08 letting**

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 can 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.

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

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

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

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 EA
DECODER

- A= Operation
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- 4 (Relocate)
- 5 (Adjust /Modify)
- 6 (Remove and Dispose) Contractor takes ownership
- B= Component
- 1 (Hardened Encoder)

Notes

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)
- 4 (Relocate)
- 5 (Adjust /Modify)
- 6 (Remove and Dispose) Contractor takes ownership
- B= Component*
- 1 (Hardware-based decoder)
- 2 (Software-based decoder)
- *See details and/or specifications

Notes Contact ITS Section prior to opening.

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 (Serial Data Unit)

Notes

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

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

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

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	
	Design	SHTabQuant	COMP 700-050-03
Forms	Construction	Refer to Comp Book	
	Documentation	Design	
References	Construction	Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
	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

823- 1A-BBB	SUBBALLAST		
	Unit SF; M2	Accuracy Square Foot; 10th of a Square Meter	PlanQuantity? no

Notes

Details This item is to be used for railroad applications 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 700-050-01
	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):* 0900 Mass Transit

Status

Struct. 823- 1A-BBB **SUBBALLAST** **SF**

- A =Operation
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- 4 (Remove)
- 5 (Modify)

- BBB =
- 075 (3 in.)
- 100 (4 in.)
- 125 (5 in.)
- 150 (6 in.)

Notes NOTE: Open in one inch increments only (Mass Transit Item)

825-1AB-CDE TRACK, STANDARD

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

Notes

Details This item is to be used for railroad applications 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):* 0900 Mass Transit

Status

Struct. **825-1AB-CDE** **TRACK, STANDARD** **LF**

- A =Operation
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- 4 (Remove)
- 5 (Modify)
- B = Rail Size
- 1 (100 lb/yd)
- 2 (115 lb/yd)
- 3 (119 lb/yd)
- 4 (132 lb/yd)
- 5 (133 lb/yd)
- 6 (136 lb/yd)
- 7 (140 lb/yd)
- 8 (Special)
- C = Joint Type
- 1 (Continuous Welded Rail, CWR)
- 2 (Jointed Rail, JR)
- D = Tie Type
- 1 (Timber)
- 2 (Concrete)
- 3 (Steel)
- E = Rail Head Hardening
- 0 (Standard Rail Head)
- 1 (Hardened Rail Head)

Notes

825-2AB-CCC TRACK UNDERCUTTING

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):* 0900 Mass Transit

Status

Struct. 825-2AB-CCC TRACK UNDERCUTTING LF

A = Joint Type
1 (Continuous Welded Rail, CWR)
2 (Jointed Rail, JR)
B = Tie Type
1 (Timber)
2 (Concrete)
3 (Steel)
CCC = 075 (3 in.)
100 (4 in.)
125 (5 in.)
150 (6 in.)

Notes NOTE: Open in one inch increments only. (Mass Transit Item)

825-3AB-CCC TRACK RAISING

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

Notes

Details This item is to be used for railroad applications 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):* 0900 Mass Transit

Status

Struct. 825-3AB-CCC TRACK RAISING LF

- A = Joint Type
 - 1 (Continuous Welded Rail, CWR)
 - 2 (Jointed Rail, JR)
- B = Tie Type
 - 1 (Timber)
 - 2 (Concrete)
 - 3 (Steel)
- CCC = 075 (3 in.)
 - 100 (4 in.)
 - 125 (5 in.)
 - 150 (6 in.)

Notes NOTE: Open in one inch increments only. (Mass Transit Item)

825-4AB- C LINE & SURFACE

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

Notes

Details This item is to be used for railroad applications 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):* 0900 Mass Transit

Status

Struct. 825-4AB- C LINE & SURFACE LF

- A = Rail Size
 1 (100 lb/yd)
 2 (115 lb/yd)
 3 (119 lb/yd)
 4 (132 lb/yd)
 5 (133 lb/yd)
 6 (136 lb/yd)
 7 (140 lb/yd)
 8 (Special)
- B = Joint Type
 1 (Continuous Welded Rail, CWR)
 2 (Jointed Rail, JR)
- C = Tie Type
 1 (Timber)
 2 (Concrete)
 3 (Steel)

Notes

825-5AB-CDE TURNOUT

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

Notes

Details

This item is to be used for railroad applications 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):* 0900 Mass Transit

Status

Struct. **825-5AB-CDE** **TURNOUT** **EA**

- A = Operation
 1 (Furnish & Install)
 2 (Furnish)
 3 (Install)

- 4 (Remove)
- 5 (Modify)
- B = Rail Size
 - 1 (100 lb/yd)
 - 2 (115 lb/yd)
 - 3 (119 lb/yd)
 - 4 (132 lb/yd)
 - 5 (133 lb/yd)
 - 6 (136 lb/yd)
 - 7 (140 lb/yd)
 - 8 (Special)
- C = 1 (Right Hand)
 - 2 (Left Hand)
- D = Turnout Size
 - 1 (No. 08)
 - 2 (No. 10)
 - 3 (No. 12)
 - 4 (No. 14)
 - 5 (No. 15)
 - 6 (No. 16)
 - 7 (No. 18)
 - 8 (No. 20)
- E = Tie Type
 - 1 (Timber)
 - 2 (Concrete)
 - 3 (Steel)

Notes

825-6AB-CDE CROSSOVER

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

Notes

Details

This item is to be used for railroad applications 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):* 0900 Mass Transit

Status

Struct. 825-6AB-CDE CROSSOVER EA

- A =Operation
 - 1 (Furnish & Install)
 - 2 (Furnish)
 - 3 (Install)
 - 4 (Remove)
 - 5 (Modify)
- B = Rail Size
 - 1 (100 lb/yd)
 - 2 (115 lb/yd)
 - 3 (119 lb/yd)
 - 4 (132 lb/yd)
 - 5 (133 lb/yd)
 - 6 (136 lb/yd)
 - 7 (140 lb/yd)
 - 8 (Special)
- C = 1 (Right Hand)
 - 2 (Left Hand)
- D = Crossover Size
 - 1 (No. 08)
 - 2 (No. 10)
 - 3 (No. 12)
 - 4 (No. 14)
 - 5 (No. 15)
 - 6 (No. 16)
 - 7 (No. 18)
 - 8 (No. 20)
- E = Tie Type
 - 1 (Timber)
 - 2 (Concrete)
 - 3 (Steel)

Notes

827- 1-ABC DERRAIL

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

Notes

Details

This item is to be used for railroad applications 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):* 0900 Mass Transit

Status

Struct. 827- 1-ABC **DERAIL** **EA**

- A =Operation
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- 4 (Remove)
- 5 (Modify)
- B = Rail Size
- 1 (100 lb/yd)
- 2 (115 lb/yd)
- 3 (119 lb/yd)
- 4 (132 lb/yd)
- 5 (133 lb/yd)
- 6 (136 lb/yd)
- 7 (140 lb/yd)
- 8 (Special)
- C = Type of Derail
- 1 (Manual)
- 2 (Electric)

Notes

827- 2-ABC BUMPING POST

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

Notes

Details This item is to be used for railroad applications 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):* 0900 Mass Transit

Status

Struct. 827- 2-ABC **BUMPING POST** **EA**

- A =Operation
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- 4 (Remove)
- 5 (Modify)
- B = Rail Size
- 1 (100 lb/yd)
- 2 (115 lb/yd)
- 3 (119 lb/yd)
- 4 (132 lb/yd)
- 5 (133 lb/yd)
- 6 (136 lb/yd)
- 7 (140 lb/yd)
- 8 (Special)
- C = Type of Head
- 1 (Solid)
- 2 (Spring)
- 3 (Hydraulic)
- 4 (Buffer)

Notes

830-1AB-CDE GRADE CROSSING

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

Notes

Details

This item is to be used for railroad applications 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): 0900 Mass Transit

Status

Struct. 830-1AB-CDE GRADE CROSSING LF

- A = Operation
 - 1 (Furnish & Install)
 - 2 (Furnish)
 - 3 (Install)
 - 4 (Remove)
 - 5 (Modify)
- B = Grade Crossing Type
 - 1 (Concrete)
 - 2 (Rubber)
 - 3 (Timber)
 - 4 (Asphalt)
 - 5 (Timber and Asphalt)
 - 6 (Stone)
 - 7 (Special)
 - 0 (Temporary)
- C = Rail Size
 - 1 (100 lb/yd)
 - 2 (115 lb/yd)
 - 3 (119 lb/yd)
 - 4 (132 lb/yd)
 - 5 (133 lb/yd)
 - 6 (136 lb/yd)
 - 7 (140 lb/yd)
 - 8 (Special)
- D = Joint Type
 - 1 (Continuous Welded Rail, CWR)
 - 2 (Jointed Rail, JR)
- E = Tie Type
 - 1 (Timber)
 - 2 (Concrete)
 - 3 (Steel)

Notes

832- 1- A	WELDS, ELECTRIC FLASH-BUTT/THERMITE		
	Unit EA	Accuracy Each	PlanQuantity? no

Notes

Details This item is to be used for railroad applications 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):* 0900 Mass Transit

Status

Struct. 832- 1- A **WELDS, ELECTRIC FLASH-BUTT/THERMITE** **EA**

- A = Rail Size
- 1 (100 lb/yd)
- 2 (115 lb/yd)
- 3 (119 lb/yd)
- 4 (132 lb/yd)
- 5 (133 lb/yd)
- 6 (136 lb/yd)
- 7 (140 lb/yd)
- 8 (Special)

Notes

832- 2- A THERMITE WELD

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).	

Struct.	836-1AB-CDE	INSULATED JOINTS	EA
	<p>A =Operation 1 (Furnish & Install) 2 (Furnish) 3 (Install) 4 (Remove) 5 (Modify)</p> <p>B = Insulated Joint Type 1 (Factory Prefab Bonded Plug) 2 (Field Bonded) 3 (Field Installed)</p> <p>C = Rail Size 1 (100 lb/yd) 2 (115 lb/yd) 3 (119 lb/yd) 4 (132 lb/yd) 5 (133 lb/yd) 6 (136 lb/yd) 7 (140 lb/yd) 8 (Special)</p> <p>D = Joint Type 1 (Continuous Welded Rail, CWR) 2 (Jointed Rail, JR)</p> <p>E = Tie Type 1 (Timber) 2 (Concrete) 3 (Steel)</p>		

Notes

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	<p>PPM Chapter</p> <p>Other</p> <p>Standards</p> <p>Specifications</p>		
	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

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

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.

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).

Prep & Doc Manual Chapter(s)

*TRNS*PORT Category (DRAFT FIELD):*

Status

Struct. 905-324- A REWORKED ASPHALT CONCRETE SY

Notes

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

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

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

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

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).

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

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

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

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

Documentation **Construction** Refer to Comp Book
 Design Locate in plans. Summarize quantities by location on tabulation of quantities sheet in the plans, or detail 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

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

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.

906-702- AA INVERTED PROFILE MARKINGS

Unit Mixed **Accuracy** Refer to item structure and details **PlanQuantity?**

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

Documentation	Construction Refer to Comp Book 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 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.

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

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

908-102- 1 MICROSURFACING FOR MOT

	Unit	Accuracy	PlanQuantity?
	SY; M2	Square Yard; Square Meter	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

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	

References **Construction**
 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

908-400- 1 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- 1 **SKYWAY- LIGHTNING PROTECTION SYSTEM** **EA**

Notes For use ONLY on the SKYWAY Bridge

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**

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

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

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

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

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

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

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. 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

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

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

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

9AA-BBB- CC SPECIAL, GENERIC, DEVELOPMENTAL, OR TRIAL PAY ITEMS: SECTION

	Unit	Accuracy	PlanQuantity? no
Notes			
Details			
Related Items	Required		Recommended
Forms	Design	SHTabQuant	
	Construction	Refer to Comp Book	
Documentation	Design	See Detail	
	Construction	see detail	
References	PPM Chapter		
	Other		
	Standards		
	Specifications		
	Prep & Doc Manual Chapter(s)		

*TRNS*PORT Category (DRAFT FIELD):* 0000 Administrative

Status

Struct. 9AA-BBB- CC SPECIAL, GENERIC, DEVELOPMENTAL, OR TRIAL PAY ITEMS: SECTION

- Notes** AA = Year of Development
 BBB= Spec Book Section
 CC = Sequence of New Item in Spec Book Section
 01 = (First Trial Item for Year)
 02 = (Second Trial Item for Year) Etc.