

**630- 2- AB CONDUIT**

**Unit** LF; M1      **Accuracy** Linear Foot; 1/10 Meter      **PlanQuantity?** no

**Notes**

**January 2015: See updated guidance for Plan Summary Boxes**

**Details**

This item is valid for signals, lighting, and other electrically powered or operated devices. For each run of conduit, the call-out in the plans must show the pay item, # of runs, and the length of the run. The default diameter is 2" ; all other diameters should be noted in the call-out. For example, 630-2-11 (2 runs of 4" @100'), or 630-2-11 (2 runs @ 90').

MEASUREMENT- TRENCH or BORE: Measurement is for the straight line HORIZONTAL DISTANCE of the trench or bore, from pull box to pull box, with no allowance for sweeps or vertical distance. No additional payment will be made for multiple runs of conduit within a trench or bore.

MEASUREMENT- ABOVEGROUND or BRIDGE MOUNT: Measurement will be for the actual length of conduit used.

REMOVAL: Removal will be paid for bridge mount option only. Aboveground conduit will be incidental to pole or equipment removal All other below ground conduit will remain in place, or be incidental to clearing and grubbing.

\*\*\*\*\*

B=1 OPEN TRENCH is used when box-to-box length is underground, and can be open trenched. If the contractor chooses to use an alternate method, payment will remain "open trench".

\*\*\*\*\*

PLAN SUMMARY FORMS: Tabulate the pay item on the appropriate Signals or Lighting tabulation sheet(s).

Summary of General Items summary box may be used for sidewalk repairs only when component plans for signals or lighting do not exist.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Multiple: Multiple forms may be applicable. See details above.  
 Refer to BOE details for project application.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation  
 Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**TRNS\*PORT Category (DRAFT FIELD):** Multiple      Roadway, Signals, Lighting, etc

**Struct. 630- 2- AB CONDUIT LF**

- A = Operation  
 1 (Furnish & Install)  
 6 (Remove) B= 5 only, effective July 2014  
 B = Installation Method/location- see details above  
 1 (open trench) Underground \*  
 2 (Directional Bore) Underground or Underpavement\*  
 3 (Jack & Bore) Typically under railroad\*  
 4 (Aboveground)\*\*  
 5 (Bridge Mount)\*\*

\*Measured as the horizontal length of the trench or bore; no additional payment for multiple conduits in trench.

\*\*Measured as the actual length of each conduit.

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF		7/1/2013	
0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF		7/1/2013	
0630 2 13	CONDUIT, FURNISH & INSTALL, JACK & BORE UNDER RAILROAD	LF		5/1/2015	5/30/2015
0630 2 14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF		7/1/2013	
0630 2 15	CONDUIT, FURNISH & INSTALL, BRIDGE MOUNT	LF		7/1/2013	
0630 2 65	CONDUIT, REMOVE, BRIDGE MOUNT	LF		7/1/2013	

**632- 7- A SIGNAL CABLE**

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

**Notes**

**Details**

This pay item is for traffic control devices, including traffic signals and ITS devices.

Includes cable, support wire, cable ties, cable clamps, lashing wire, terminal connectors and cable grounding, within the normal limits of the intersection. May include total intersection replacement, and/or pedestrian signals, as noted in the plans.

CURRENT TEXT \*\*\*\*\*

Effective January 2014:

For New or Reconstructed Intersections, use the per Intersection pay item. This includes intersections where new poles are installed/relocated. (Payment per intersection will include varying lengths by project, based on locations shown in the plans.)

For Repairs/Replacement/Other operations where new signal cable is needed, use the linear foot pay item. This includes non-intersection school zone signals, adding a signal head to an existing mast arm or span wire, or signal cables outside of an intersection. This item is also used by Maintenance, where plans/locations may not be available prior to bid.

REMOVE: Payment includes all signal cable per intersection, or per LF for other applications, such as between a controller and flashing beacon sign(s). Detail quantity/location in the plans.

OLD TEXT \*\*\*\*\*

For projects let through June 2013, consider 632- 6- (2632- 6-) for runs outside the limits of the intersection.

For projects let July 2013 through December 2013, pay item 632-7-2 is available for Repair/Replace/Other installations, but will require plan details or modified specification. An update to specification section 632 is pending for January 2014.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Trns-port**

**Other** Normally requires SHOP DRAWINGS

**Standards** Index No. 17727

**Specifications** Section 632

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

.....  
**TRNS\*PORT Category (DRAFT FIELD):** 0500 Signalization (or ITS)

**Struct. 632- 7- A SIGNAL CABLE Mixed**

- A = Operation
- 1 (New or Reconstructed Intersection- Furnish & Install) PI
- 2 (Repair, Replacement, and other operations- Furnish & Install) LF
- 4 (Adjust/Modify) PI
- 6 (Remove- Intersection) PI effective July 2014
- 7 (Remove- Outside of Intersection) LF effective July 2014

**Notes**

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*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0632 7 1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI		1/1/2013	
0632 7 2	SIGNAL CABLE- REPAIR/REPLACE/OTHER, FURNISH & INSTALL	LF		1/1/2013	
0632 7 4	SIGNAL CABLE, ADJUST	PI		1/1/2013	
0632 7 6	SIGNAL CABLE, REMOVE- INTERSECTION	PI	P	7/1/2014	
0632 7 7	SIGNAL CABLE, REMOVE- OUTSIDE OF INTERSECTION	LF	P	7/1/2014	

**633- 1-ABC FIBER OPTIC CABLE**

**Unit** LF; M1      **Accuracy** Linear Foot; 1/10 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.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter** Vol 1, Chapter 7  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**T: Plan Details and/or Technical Specifications required**

*TRNS\*PORT Category (DRAFT FIELD):* 0500      Signalization (or ITS)

**Struct.**    **633- 1-ABC**      **FIBER OPTIC CABLE**      **LF**

- A= Operation
  - 1 (Furnish & Install)
  - 3 (Install) Furnished by FDOT or local agency; C=0
  - 4 (Relocate) C=0
  - 6 (Remove) C=0; effective July 2014; through 6/2014, see 690 removal items
- B= Location
  - 1 (Overhead)
  - 2 (Underground)
- C= Number of Fibers in Cable
  - 1 (2 to 12)
  - 2 (13 to 48)
  - 3 (49 to 96)
  - 4 (97 to 144)

**Notes** \*Remove item may require plan details and/or tech spec

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0633 1111	FIBER OPTIC CABLE, F&I, OVERHEAD,2-12 FIBERS	LF		1/1/2013	
0633 1112	FIBER OPTIC CABLE, F&I, OVERHEAD,13-48 FIBERS	LF		1/1/2013	
0633 1113	FIBER OPTIC CABLE, F&I, OVERHEAD,49-96 FIBERS	LF		1/1/2013	
0633 1114	FIBER OPTIC CABLE, F&I, OVERHEAD,97-144 FIBERS	LF		1/1/2013	
0633 1121	FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	LF		1/1/2013	
0633 1122	FIBER OPTIC CABLE, F&I, UNDERGROUND,13-48 FIBERS	LF		1/1/2013	
0633 1123	FIBER OPTIC CABLE, F&I, UNDERGROUND,49-96 FIBERS	LF		1/1/2013	
0633 1124	FIBER OPTIC CABLE, F&I, UNDERGROUND, 97 - 144 FIBERS	LF		1/1/2013	
0633 1320	FIBER OPTIC CABLE, INSTALL, UNDERGROUND	LF		1/1/2013	
0633 1330	FIBER OPTIC CABLE, INSTALL, OVERHEAD	LF		1/1/2013	
0633 1410	FIBER OPTIC CABLE, RELOCATE, OVERHEAD	LF		1/1/2013	
0633 1420	FIBER OPTIC CABLE, RELOCATE, UNDERGROUND	LF		1/1/2013	
0633 1610	FIBER OPTIC CABLE, REMOVE, OVERHEAD	LF		7/1/2014	
0633 1620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF		7/1/2014	

**633- 2- AB 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, i.e. 30 fibers in one cable= 30 connections.\*\*

Type of connection must be noted in the plans.

**Related Items**

**Required**    **Recommended** 783-3

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):** 0500                      Signalization (or ITS)

**Struct. 633- 2- AB FIBER OPTIC CONNECTION EA**

New items for Signals use, pending spec approval.

A= Operation  
3 (Install)  
B= Type  
1 (Splice)  
2 (Termination)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0633 2 31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA		1/1/2013	
0633 2 32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA		1/1/2013	



**633- 3- AB 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.

Hardware items include incidental hardware and cables for a complete installation.

Hardware items furnished with additional cable, such as preterminated patch panels, include the installation of the cable. DO NOT provide additional payment for cable installation under cable or conduit items.

**Related Items**

**Required**    **Recommended** 783-2

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):** 0500    Signalization (or ITS)

**Struct. 633- 3- AB FIBER OPTIC CONNECTION HARDWARE EA**

New items for Signals use, pending spec approval.

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

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0633 3 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA		1/1/2013	
0633 3 12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA		1/1/2013	
0633 3 13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA		1/1/2013	
0633 3 14	FIBER OPTIC CONNECTION HARDWARE, F&I, BUFFER TUBE FAN OUT KIT	EA		1/1/2013	
0633 3 15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA		1/1/2013	
0633 3 16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA		1/1/2013	
0633 3 17	FIBER OPTIC CONNECTION HARDWARE, F&I, CONNECTOR PANEL	EA		1/1/2013	
0633 3 31	FIBER OPTIC CONNECTION HARDWARE, INSTALL, SPLICE ENCLOSURE	EA		1/1/2013	
0633 3 41	FIBER OPTIC CONNECTION HARDWARE, RELOCATE SPLICE ENCLOSURE	EA		7/1/2013	
0633 3 42	FIBER OPTIC CONNECTION HARDWARE, RELOCATE SPLICE TRAY	EA		7/1/2013	
0633 3 43	FIBER OPTIC CONNECTION HARDWARE, RELOCATE PRETERMINATED CONNECTOR ASSEMBLY	EA		7/1/2013	
0633 3 45	FIBER OPTIC CONNECTION HARDWARE, RELOCATE PATCH PANEL, PRETERMINATED	EA		7/1/2013	
0633 3 46	FIBER OPTIC CONNECTION HARDWARE, RELOCATE PATCH PANEL- FIELD TERMINATED	EA		7/1/2013	
0633 3 51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA		7/1/2013	
0633 3 52	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE TRAY	EA		7/1/2013	
0633 3 55	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY PATCH PANEL, PRETERMINATED	EA		7/1/2013	
0633 3 56	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY PATCH PANEL	EA		7/1/2013	

<b>633- 4- A</b>	<b>TWISTED PAIR CABLE</b>		
<b>Unit</b>	LF; M1	<b>Accuracy</b>	Linear Foot; 1/10 Meter
<b>PlanQuantity?</b>	no		

**Notes**

**Details** Refer to Section 633 for specifications.

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

**Plan Summary Box** Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation** tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

**References** **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

*TRNS\*PORT Category (DRAFT FIELD):* 0200 or other Roadway or other- see details

**Struct.** **633- 4- A** **TWISTED PAIR CABLE** **LF**

A= Operation  
1 (Furnish & Install)  
3 (Install) Furnished by FDOT or local agency  
4 (Relocate)  
6 (Remove) effective January 2015  
For removal through December 2014, see 690 items

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0633 4 1	SIGNALS COMMUNICATION CABLE- TWISTED PAIR CABLE, FURNISH & INSTALL	LF		7/1/2013	
0633 4 4	SIGNALS COMMUNICATION CABLE- TWISTED PAIR CABLE, RELOCATE	LF		7/1/2013	
0633 4 6	SIGNALS COMMUNICATION CABLE- TWISTED PAIR CABLE, REMOVE	LF		1/1/2015	

**633- 8- A      MULTI-CONDUCTOR COMMUNICATION CABLE**

**Unit** LF; M1      **Accuracy** Linear Foot; 1/10 Meter      **PlanQuantity?** no

**Notes**

**Details**

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 and video. When multiple cables are needed, use a tabulation sheet in the plans to clearly identify the number of pairs and length of each cable. Record the total length for payment under this pay item.

Note: FO patch cords or Cat5 cables may be considered as incidental to the hardware to be installed.

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

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):** 0500      Signalization (or ITS)

**Struct.    633- 8- A      MULTI-CONDUCTOR COMMUNICATION CABLE      LF**

- A= Operation
- 1 (Furnish & Install)
- 2 (Furnish)
- 3 (Install)
- 4 (Relocate)
- 5 (Adjust /Modify)
- 6 (Remove) effective January 2015

**Notes**

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*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0633 8 1	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL	LF	T	1/1/2013	
0633 8 4	MULTI-CONDUCTOR COMMUNICATION CABLE, RELOCATE	LF	T	1/1/2013	
0633 8 5	MULTI-CONDUCTOR COMMUNICATION CABLE, ADJUST/MODIFY	LF	T	1/1/2013	
0633 8 6	MULTI-CONDUCTOR COMMUNICATION CABLE, REMOVE	LF		1/1/2015	

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**634- 4-ABC**

**SPAN WIRE ASSEMBLY**

**Unit** PI                      **Accuracy** Per Intersection                      **PlanQuantity?** no

**Notes**

**Details**

This pay item is for traffic control devices, including traffic signals and ITS devices.

For projects let through June 2009, Items for two wire and three wire are valid. Projects may be updated to use Single Point and Two Point pay item descriptions, when changes do not adversely affect production. Refer to 2009 PPM implementation letter.

For projects let July 2009 and later, use the single or two point attachment type pay items, as applicable. (Estimates Bulletin 09-01, 2009 PPM implementation letter.)

Perpendicular spans, box spans or drop box spans shall be used for all signal span wire assemblies. Diagonal span assemblies shall only be used for flashing beacon installations. (2009 PPM- Plans Preparation Manual, Design Bulletin 09-01; Vol 1, Ch 7.4.18)

Other Span Type: Do not use for perpendicular, box, or diagonal spans. Complete plan details are required.

INSTALL Span wire in accordance with Design Standards. For minor installation changes, note details in the plans with standard span type.

**OPERATIONS:**

INSTALL: Materials furnished by FDOT or local agency.

Adjust: NOT TO BE USED FOR MOT or Temporary Signals. Adjust existing Span Wires, as detailed in the plans.

REMOVE (Through 2014): Payment per intersection includes removing the span wire, messenger wire, and all miscellaneous materials supporting the traffic signals, signs, and other traffic control devices.

REMOVE (EFFECTIVE 1/2015): When the poles are to be removed, "all attachments" are included with the removal cost; NO SEPARATE PAYMENT for removal of span wire.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter** Vol 1, Ch 7.4.18

**Trns-port**

**Other** Normally requires SHOP DRAWINGS for Items 634- 4-111 thru 634- 4-311

**Standards** Index No. 17727  
**Specifications** Section 634

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

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**TRNS\*PORT Category (DRAFT FIELD):** 0500 Signalization (or ITS)

**Struct. 634- 4-ABC SPAN WIRE ASSEMBLY PI**

A = Operation  
1 (Furnish & Install)  
3 (Install) Furnished by FDOT or local agency  
4 (Adjust) BC=00  
5 (Replace) BC=00 for maintenance activities  
6 (Remove, poles to remain) BC=00 effective January 2015  
Remove: Use item 690-80 through December 2014  
7 (Re-tension Cable) BC=00 for maintenance activities  
  
B= Attachment Type  
4 (Single Point)  
5 (Two Point)  
  
C = Type Span  
1 (Perpendicular)  
2 (Diagonal) see details above; flashing beacon installations only  
3 (Box or Drop Box)  
4 (Other - As Shown In Plans) Details required for approved design variances

**Notes**

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*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0634 4141	SPAN WIRE ASSEMBLY, F&I, SINGLE POINT, PERPENDICULAR	PI		1/1/2013	
0634 4142	SPAN WIRE ASSEMBLY, F&I, SINGLE POINT, DIAGONAL	PI		1/1/2013	
0634 4143	SPAN WIRE ASSEMBLY, F&I, SINGLE POINT, BOX OR DROP BOX	PI		1/1/2013	
0634 4144	SPAN WIRE ASSEMBLY, F&I, SINGLE POINT, OTHER TYPE	PI	A	1/1/2013	
0634 4151	SPAN WIRE ASSEMBLY, F&I, TWO POINT, PERPENDICULAR	PI		1/1/2013	
0634 4152	SPAN WIRE ASSEMBLY, F&I, TWO POINT, DIAGONAL	PI		1/1/2013	
0634 4153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX	PI		1/1/2013	
0634 4154	SPAN WIRE ASSEMBLY, F&I, TWO POINT, OTHER TYPE	PI	A	1/1/2013	
0634 4341	SPAN WIRE ASSEMBLY, INSTALL, SINGLE POINT ATTACH, PERPENDICULAR	PI		1/1/2013	
0634 4342	SPAN WIRE ASSEMBLY, INSTALL, SINGLE POINT ATTACH, DIAGONAL	PI		1/1/2013	

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0634 4343	SPAN WIRE ASSEMBLY, INSTALL, SINGLE POINT ATTACH, BOX SPANS	PI		1/1/2013
0634 4344	SPAN WIRE ASSEMBLY, INSTALL, SINGLE POINT ATTACH, OTHER SPAN TYPE	PI	A	1/1/2013
0634 4351	SPAN WIRE ASSEMBLY, INSTALL, TWO POINT ATTACH, PERPENDICULAR	PI		1/1/2013
0634 4352	SPAN WIRE ASSEMBLY, INSTALL, TWO POINT ATTACH, DIAGONAL	PI		1/1/2013
0634 4353	SPAN WIRE ASSEMBLY, INSTALL, TWO POINT ATTACH, BOX SPANS	PI		1/1/2013
0634 4354	SPAN WIRE ASSEMBLY, INSTALL, TWO POINT ATTACH, OTHER SPAN TYPE	PI	A	1/1/2013
0634 4400	SPAN WIRE ASSEMBLY, ADJUST	PI	D	1/1/2013
0634 4600	SPAN WIRE ASSEMBLY, REMOVE- POLES REMAIN	PI		1/1/2015

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**634- 5- A FIBERGLASS INSULATOR**

**Unit** LF; M1      **Accuracy** Linear Foot; 1/10 Meter      **PlanQuantity?** no

**Notes**

**Details**

This pay item is for traffic control devices, including traffic signals and ITS devices.

Fiberglass Insulators are to be used on span wires located within 6 feet of overhead electric power lines. Detail length of each insulator in the plans.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Trns-port**  
**Other** Normally requires SHOP DRAWINGS  
**Standards**  
**Specifications** Section 634

**T: Plan Details and/or Technical Specifications required**

*TRNS\*PORT Category (DRAFT FIELD):* 0500      Signalization (or ITS)

**Struct. 634- 5- A FIBERGLASS INSULATOR LF**

A = Operation  
1 (Furnish & Install)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0634 5 1	FIBERGLASS INSULATOR, FURNISH & INSTALL	LF		1/1/2013	

**634- 6- A      MESSENGER WIRE- Maintenance Use Only**

**Unit** LF; M1      **Accuracy** Linear Foot; 1/10 Meter      **PlanQuantity?** no

**Notes**

**Details**

MAINTENANCE CONTRACTS ONLY

For new installations, the messenger wire is included with the Span Wire Assembly.

For Repair/Replacement, do not include separate pay when entire Span Wire Assembly is replaced.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Trns-port**

**Other**

Normally requires SHOP DRAWINGS

**Standards**

Index No. 17356, 17727

**Specifications**

**T: Plan Details and/or Technical Specifications required**

*TRNS\*PORT Category (DRAFT FIELD):* 0500      Signalization (or ITS)

**Struct.    634- 6- A      MESSENGER WIRE- Maintenance Use Only      LF**

A = Operation  
1 (Furnish & Install) Maintenance/replacement use only

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0634 6 1	MESSENGER WIRE, FURNISH & INSTALL- REPLACE EXISTING	LF	T	1/1/2013	

**634-Maint SPAN WIRE ASSEMBLY- Maintenance Use only**

**Unit** LF; M1      **Accuracy** Linear Foot; 1/10 Meter      **PlanQuantity?** ?

**Notes**      **Maintenance Item: Not Valid for Construction Contracts**

**Details**      MAINTENANCE CONTRACTS ONLY  
 Additional BOE details pending

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

**Plan Summary**      Maintenance Item- No Form Required  
**Box**      NA

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**      **PPM Chapter**  
                          **Trns-port**  
                          **Other**  
                          **Standards**  
                          **Specifications**

*TRNS\*PORT Category (DRAFT FIELD):*

**Struct.**      **634-Maint**      **SPAN WIRE ASSEMBLY- Maintenance Use only**      **LF**

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

**635- 2- AB PULL & SPLICE BOX**

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

**Notes**                      **Jan 2015: See updated guidance for plan summary boxes**

**Details**                      Use in accordance with Section 635 of the specifications.

DIMENSIONS: For signals applications, the spec calls for size B=1. For fiber optic cable applications, the spec calls for size B=2. When a different size is needed, it should be noted in the plans.

\*\*\*\*\*

INSTALL (A=3): Item furnished by maintaining agency. Plan details required to inform contractor how to obtain pull & junction box. Include Agency name, contact name & number, storage location, and/or delivery instructions (agency delivery or contractor pick-up).

RELOCATE (A=4): Depending on the type of box, current condition, and the extent of the relocation, replacement versus relocation should be considered. When a box is to be relocated, specs or plan details should include the removal, protection/relocation, and reinstallation- in accordance with the specs & standards.

REMOVE: Removal is normally included with clearing and grubbing. When replacing existing pull & splice box without clearing and grubbing, include the removal in the cost of the new box.

\*\*\*\*\*

PLAN SUMMARY FORMS: Tabulate the pay item on the appropriate Signals or Lighting tabulation sheet(s).

Summary of General Items summary box may be used for sidewalk repairs only when component plans for signals or lighting do not exist.

TRANSPORT: Load this pay item into the applicable category. For signals applications, load in the signals category; for lighting applications, load in the lighting category; similarly for other applications.

<b>Related Items</b>	<b>Required</b>	<b>Recommended</b>
<b>Plan Summary Box</b>	Multiple: Multiple forms may be applicable. See details above. Refer to BOE details for project application.	

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

<b>Design Forms and Documentation</b>	COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation Locate in the plans. Summarize quantities by location in the computation book.
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**Construction Forms and Documentation**

<b>References</b>	<b>PPM Chapter</b> <b>Trns-port</b> <b>Other</b> <b>Standards</b> <b>Specifications</b>
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**TRNS\*PORT Category (DRAFT FIELD):**

**Struct. 635- 2- AB PULL & SPLICE BOX EA**

- A= Operation
- 1 (Furnish & Install)
- 3 (Install) B=0; item furnished by FDOT or local agency
- 4 (Relocate) B=0; see detail
- 5 (Repair) maintenance use only
- B= Cover Size; minimum dimensions, per specification
- 1 (13 x 24)
- 2 (24 x 36) large size
- 3 (30" X 60"rectangular or 36" round) splice vault

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0635 2 11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA		7/1/2013	
0635 2 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA		7/1/2013	
0635 2 13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA		7/1/2013	
0635 2 30	PULL & SPLICE BOX, INSTALL	EA		7/1/2013	
0635 2 40	PULL & SPLICE BOX, RELOCATE	EA		7/1/2013	
0635 2 50	PULL & SPLICE BOX, REPAIR	EA	M	7/1/2013	

**635- 3- AB      JUNCTION BOX**

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

**Notes**                      **Jan 2015: See updated guidance for plan summary boxes**

**Details**                      Use in accordance with Section 635 of the specifications.

INSTALL (A=3): Item furnished by maintaining agency. Plan details required to inform contractor how to obtain pull & junction box. Include Agency name, contact name & number, storage location, and/or delivery instructions (agency delivery or contractor pick-up).

RELOCATE (A=4): Depending on the type of box, current condition, and the extent of the relocation, replacement versus relocation should be considered. When a box is to be relocated, specs or plan details should include the removal, protection/relocation, and reinstallation- in accordance with the specs & standards.

REMOVE: Removal is normally included with clearing and grubbing. When replacing existing box without clearing and grubbing, include the removal in the cost of the new box.

\*\*\*\*\*

PLAN SUMMARY FORMS: Tabulate the pay item on the appropriate Signals or Lighting tabulation sheet(s).  
 Summary of General Items summary box may be used for sidewalk repairs only when component plans for signals or lighting do not exist.

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

**Plan Summary Box**                      Multiple: Multiple forms may be applicable. See details above.  
 Refer to BOE details for project application.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation  
 Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

**References**                      **PPM Chapter**  
    **Trns-port**  
    **Other**  
    **Standards**  
    **Specifications**

**TRNS\*PORT Category (DRAFT FIELD):**

**Struct.**    **635- 3- AB**                      **JUNCTION BOX**    **EA**

A= Operation  
 1 (Furnish & Install)  
 3 (Install) B=0; item furnished by FDOT or local agency  
 4 (Relocate) B=0; see detail

B= Type  
1 (Aerial)  
2 (Mounted)\*  
3 (Embedded)\*  
\*May be incidental for some applications

**Notes**

.....  
*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0635 3 11	JUNCTION BOX, FURNISH & INSTALL, AERIAL	EA		7/1/2013	
0635 3 12	JUNCTION BOX, FURNISH & INSTALL, MOUNTED	EA		7/1/2013	
0635 3 40	JUNCTION BOX, RELOCATE	EA		7/1/2013	

**639- 1-ABC      ELECTRICAL POWER SERVICE**

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

**Notes**

**Details**

This pay item is for signals, lighting, ITS, and other roadway applications.

Grounding, per index 17736 and Section 620, is incidental to power service.

**Related Items**

**Required**                                      **Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**TRNS\*PORT Category (DRAFT FIELD):** Multiple                      Roadway, Signals, Lighting, etc

**Struct.      639- 1-ABC                      ELECTRICAL POWER SERVICE                      AS**

- A= Operation
- 1 (Furnish & Install)
- 4 (Relocate) C=0
- 6 (Remove) C=0
- B= Type of Service
- 1 (Overhead)
- 2 (Underground)
- C= Meter Base
- 1 (Furnished By Power Company)
- 2 (Purchased By Contractor From Power Company)
- 3 (Not Required)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0639 1 90	SOLAR POWER SOURCE, PROJECT 220442-4-	AS		1/1/2015	6/30/2015
0639 1111	ELECTRICAL POWER SERVICE, F&I, OVERHEAD, METER FURNISHED BY POWER COMPANY	AS		1/1/2013	
0639 1112	ELECTRICAL POWER SERVICE, F&I, OVERHEAD METER PURCHED BY CONTRACTOR FROM POWER COMPANY	AS		1/1/2013	
0639 1113	ELECTRICAL POWER SERVICE, F&I, OVERHEAD METER NOT REQUIRED	AS		1/1/2013	
0639 1121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER COMPANY	AS		1/1/2013	
0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS		1/1/2013	
0639 1123	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER NOT REQUIRED	AS		1/1/2013	
0639 1410	ELECTRICAL POWER SERVICE, REL OVERHEAD	AS		1/1/2013	
0639 1420	ELECTRICAL POWER SERVICE, RELOCATE, UNDERGROUND	AS		1/1/2013	
0639 1610	ELECTRICAL POWER SERVICE, REMOVE OVERHEAD	AS		1/1/2013	
0639 1620	ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND	AS		1/1/2013	

**639- 2- A      ELECTRICAL SERVICE WIRE**

**Unit** LF; M1      **Accuracy** Linear Foot; 1/10 Meter      **PlanQuantity?** no

**Notes**

**Details**

This pay item is for signals, lighting, ITS, and other roadway applications.

MEASUREMENT (Effective January 2013): Payment is per length of complete wire run (all conductors included), not per each conductor.

MEASUREMENT (Through December 2012) Verify with contract documents- plans and specs. Payment may be based on wire, or the linear foot (meter) of a single conductor.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications** Section 639

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):** 0500      Signalization (or ITS)

**Struct.    639- 2- A      ELECTRICAL SERVICE WIRE      LF**

A = Operation  
1 (Furnish & Install)  
4 (Relocate)  
6 (Remove) for electrical service ONLY

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0639 2 1	ELECTRICAL SERVICE WIRE	LF		1/1/2013	
0639 2 4	ELECTRICAL SERVICE WIRE, RELOCATE	LF		1/1/2013	
0639 2 6	ELECTRICAL SERVICE WIRE, REMOVE	LF		1/1/2015	

**639- 3- AB      ELECTRICAL SERVICE DISCONNECT**

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

**Notes**

**Details** This pay item is for signals, lighting, ITS, and other roadway applications.

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

**Plan Summary Box**      Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**      tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**      No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**      **PPM Chapter**  
**Trns-port**  
**Other**                      Normally requires SHOP DRAWINGS  
**Standards**              Index No. 17736  
**Specifications**      Section 639

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):**      0500                                      Signalization (or ITS)

**Struct.**      **639- 3- AB**                                      **ELECTRICAL SERVICE DISCONNECT**                                      **EA**

A = Operation  
1 (Furnish & Install)  
6 (Remove)  
B = Type Mount  
1 (Pole)  
2 (Cabinet)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0639 3 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA		1/1/2013	
0639 3 12	ELECTRICAL SERVICE DISCONNECT, F&I, CABINET	EA		1/1/2013	
0639 3 60	ELECTRICAL SERVICE DISCONNECT, REMOVE	EA		1/1/2013	

**639- 4- A SIGNALS- EMERGENCY GENERATOR (PORTABLE)**

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

**Notes**

**Selected items are for Emergency / Pre-Event contract use only.**

**Details**

This pay item is for traffic control devices, including traffic signals and ITS devices, subject to the additional guidance below for emergency/pre-event contracts.

Emergency Generators are not to be permanently installed for signalized intersections. For critical intersections, use a UPS. In the event of an extended outage, UPS will serve the intersection until the District implements emergency procedures. Contact the State Traffic Operations Office for additional guidance.

FURNISH & INSTALL: COORDINATE THE USE OF THIS ITEM WITH THE STATE TRAFFIC OPERATIONS OFFICE. Tech Spec needs to address several issues related to the generator: Size, capacity, mounting, maintenance, and security.

\*\*\* Generators cannot be furnished to the maintenance yard or maintaining agency using construction funds.\*\*\*

If Generator is approved to be installed at the signals location, maintenance agreements should be completed with maintaining agency. Installation details should address securing generator to minimize potential theft.

INSTALL: For Pre-Event or Emergency contracts, coordinate the use of this item with the District Maintenance Office, to ensure the availability of generators. Tech Spec should detail security of generator and instructions for returning unit to FDOT maintenance yard.

Retrofit: Signalized location has been retrofit to accept generator connection.

Not Retrofit: Signalized location has NOT been retrofit to accept generator connection; contractor must complete the retrofit prior to generator installation. Payment for retrofit operation is included in the payment for installing generator.

Monitor & Refuel: Tech Specs should detail monitoring requirements. Fuel to be included in payment for hourly rate. (No separate payment for fuel.)

Install Generator Housing (Item furnished by maintaining agency): Details or Tech Spec should indicate that the contractor is to coordinate with the maintaining agency for pick-up/delivery of the housing to the project site. Contractor will install housing. Details or specs should indicate approximate housing dimensions, and whether a foundation/pad (included in this item for payment) is necessary.

<b>Related Items</b>	<b>Required</b>	<b>Recommended</b>
<b>Plan Summary Box</b>	Signalization: Tabulation of Quantities Summarize items by pay item and location.	
<i>NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.</i>		
<b>Design Forms and Documentation</b>	tabqsg: Signalization Tabulation of Quantity Sheet Locate in plans. Summarize quantities by location on summary sheet in the plans.	
<b>Construction Forms and Documentation</b>	No additional form required; use plans summary or comp book Record final quantity on the tabulation sheet (plans) or computation form (comp book).	
<b>References</b>	<b>PPM Chapter</b>	

**Trns-port**  
**Other**  
**Standards** Index 17841  
**Specifications** Min Specs A678

**T: Plan Details and/or Technical Specifications required**

.....  
**TRNS\*PORT Category (DRAFT FIELD):** 0500 Signalization (or ITS)

**Struct. 639- 4- A SIGNALS- EMERGENCY GENERATOR (PORTABLE) Mixed**

- A = Operation  
1 (Furnish & Install) Blocked 8-10-08  
3 (Install - Retrofit; FDOT furnished) EA; For Emergency /Pre-Event contracts only.  
Signalized location HAS BEEN RETROFIT to accept generator connection.  
4 (Install - Not Retrofit; FDOT furnished) EA; For Emergency /Pre-Event contracts only.  
Signalized location HAS NOT BEEN RETROFIT to accept generator connection.  
5 (Monitor and Refuel) HR; For Emergency /Pre-Event contracts only  
6 (Install Generator Housing only) EA; housing furnished by maintaining agency.

**Notes**

.....  
*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0639 4 3	EMERGENCY GENERATOR - PORTABLE INSTALL- RETROFIT; FDOT FURNISHED	EA	T	1/1/2013	
0639 4 4	EMERGENCY GENERATOR - PORTABLE, INSTALL- NOT RETROFIT, FDOT FURNISHED	EA	T	1/1/2013	
0639 4 5	EMERGENCY GENERATOR - PORTABLE, MONITOR & REFUEL	HR	T	1/1/2013	
0639 4 6	EMERGENCY GENERATOR - PORTABLE, INSTALL HOUSING ONLY	EA	T	1/1/2013	

**639- 5- A      EMERGENCY GENERATOR- PERMANENT**

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

**Notes**

**Details**

Intended for Maintenance Contracts Only.

Refer to E639- items for additional items.

Emergency Generators are not to be used for signalized intersections. For critical intersections, use a UPS. In the event of an extended outage, UPS will serve the intersection until the District implements emergency procedures. Contact the State Traffic Operations Office for additional guidance.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities

Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet

Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**TRNS\*PORT Category (DRAFT FIELD):** 0500                      Signalization (or ITS)

**Struct.    639- 5- A                      EMERGENCY GENERATOR- PERMANENT                      EA**

A= Generator Size  
1 (up to 25 KW)  
2 (25-50 KW)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0639 5 1	EMERGENCY GENERATOR-PERMANENT, UP TO 25 KW	EA	T	1/1/2013	6/30/2015
0639 5 2	EMERGENCY GENERATOR-PERMANENT 26- 50 KW	EA	T	1/1/2013	6/30/2015

**639- 6- A      ELECTRICAL POWER SERVICE TRANSFORMER**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?**

**Notes**

**Details**                      Intended for transformers required with Electrical Power Service. Complete specifications/details are required in the contract documents.

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

**Plan Summary Box**           Multiple: Multiple forms may be applicable. See details above.  
Refer to BOE details for project application.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**           **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**T: Plan Details and/or Technical Specifications required**

*TRNS\*PORT Category (DRAFT FIELD):*

**Struct.    639- 6- A                      ELECTRICAL POWER SERVICE TRANSFORMER                      EA**

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

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0639 6 1	ELECTRICAL POWER SERVICE-TRANSFORMER FURNISH & INSTALL	EA	T	1/1/2014	

**639- 10- ELECTRICAL POWER SERVICE DIAGNOSTIC AND MISCELLANEOUS REPAIR**

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

**Notes**

**Details** Intended for Maintenance Contracts Only.

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

*TRNS\*PORT Category (DRAFT FIELD):*

**Struct.    639- 10-                      ELECTRICAL POWER SERVICE DIAGNOSTIC AND                      EA**  
**MISCELLANEOUS REPAIR**

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0639 10	ELECTRICAL POWER SERVICE DIAGNOSTIC AND MISCELLANEOUS REPAIR	EA		1/1/2013	



**641- 1- STRAIN POLES, GUYING, CONCRETE Maintenance Use Only**

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

**Notes**                      **Valid through 12-31-13. Payment for span wire installation is included with F&I of span wire assembly. See separate items for F&I payment.**

**Details**                      Per the specification, "to be used for service pole applications, luminaire support, and strain poles for span wire support of traffic signals, signs, and other devices."

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**                      No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**                      Index No. 17725  
**Specifications**                      Section 641

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):**    0500    Signalization (or ITS)

**Struct.**    **641- 1-    STRAIN POLES, GUYING, CONCRETE Maintenance                      EA**  
**Use Only**

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

**641- 2- AB      PRESTRESSED CONCRETE POLE (Index 17725)**

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

**Notes**

**Effective January 2015, remove items moved from 690s.**

**Details**

This pay item is for traffic control devices, including traffic signals and ITS devices. Pole description, including the type, height, and other details must be included in the signal plans.  
This item is used as detailed on index 17725 and Index 17764 (pedestrian pedestal).

Poles must be on the QPL.

REMOVE: Includes the removal of pole, foundation, and any attachments (Vehicular Signal, Pedestrian Signal, Pedestrian Detector, span wire, or other). No separate payment for removal of attachments when removed with the pole. Items become the property of the contractor, unless otherwise indicated in the contract documents.  
Shallow pole removal= depth of 4 feet  
Deep pole removal= complete removal

B=9 (Custom Design): For use ONLY when design standard index does NOT apply. Designer must show complete dimensions for pole. Supporting calculations must be completed for intended signals application. Review specification requirements to determine if notes or modified specs are needed.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

SBStrainPoles: Summary of Strain Poles, or  
SHStrainPole: Strain Pole Schedule  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**      Index No. 17725, 17764  
**Specifications**      Section 641

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):**      0500                      Signalization (or ITS)

**Struct.**      **641- 2- AB**                      **PRESTRESSED CONCRETE POLE (Index 17725)**                      **EA**

- A= Operation
- 1 (Furnish & Install)
- 3 (Install) B=0
- 6 (Complete/Deep Removal- Pedestal/Service Pole) B=0, effective January 2015
- 7 (Shallow Removal- Poles 30' and greater) B=0, effective January 2015

8 (Complete/Deep Removal- Poles 30' and greater) B=0, effective January 2015

B = Pole Type (defined in Design Standards)

1 (Type P-II Pedestal)

2 (Type P-II Service Pole)

3 (Type P-III)

4 (Type P-IV)

5 (Type P-V)

6 (Type P-VI)

7 (Type P-VII)

8 (Type P-VIII)

9 (Custom Design)\*

**Notes** \*Custom Design requires Tech Spec and/or Plan Detail

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0641 2 11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II PEDESTAL	EA		1/1/2013	
0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA		1/1/2013	
0641 2 13	PRESTRESSED CONCRETE POLE, F&I, TYPE P-III	EA		1/1/2013	
0641 2 14	PRESTRESSED CONCRETE POLE, F&I, TYPE P-IV	EA		1/1/2013	
0641 2 15	PRESTRESSED CONCRETE POLE, F&I, TYPE P-V	EA		1/1/2013	
0641 2 16	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VI	EA		1/1/2013	
0641 2 17	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VII	EA		1/1/2013	
0641 2 18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA		1/1/2013	
0641 2 19	PRESTRESSED CONCRETE POLE, F&I, CUSTOM DESIGN	EA	D	1/1/2013	
0641 2 30	PRESTRESSED CONCRETE POLE, INSTALL	EA		1/1/2013	
0641 2 60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- PEDESTAL/SERVICE POLE	EA		1/1/2015	
0641 2 70	PRESTRESSED CONCRETE POLE, SHALLOW POLE REMOVAL- POLE 30' AND GREATER	EA		1/1/2015	
0641 2 80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- POLE 30' AND GREATER	EA		1/1/2015	

**641- 3-ABB CONCRETE CCTV POLE (Index 18113)**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?**

**Notes**                      **Effective January 2015. Remove items moved from 690s. CCTV poles moved from Section 785.**

**Details**                      CCTV Poles for cameras, per Index 18113.

REMOVE: Includes the removal of pole, foundation, and any attachments (camera, lowering device, etc.) No separate payment for removal of attachments when removed with the pole. Items become the property of the contractor, unless otherwise indicated in the contract documents.

Shallow pole removal= depth of 4 feet  
Deep pole removal= complete removal

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

**Plan Summary**                      Signalization: Tabulation of Quantities  
**Box**                                      Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter**  
   **Trns-port**  
   **Other**  
   **Standards**  
   **Specifications**

**TRNS\*PORT Category (DRAFT FIELD):**    0500    Signalization (or ITS)

**Struct.**    **641- 3-ABB**                                      **CONCRETE CCTV POLE (Index 18113)**                                      **EA**

- A= Operation
- 1 (Furnish & Install, with lowering device)
- 2 (Furnish & Install, without lowering device)
- 3 (Install) BB=00
- 7 (Shallow Removal) BB=00, effective January 2015
- 8 (Deep Removal) BB=00, effective January 2015
- BB = Pole Height (defined in Design Standard 18113)
- 63 (63')
- 69 (69')
- 75 (75')
- 80 (80')
- 86 (86')

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0641 3 70	CONCRETE CCTV POLE, SHALLOW POLE REMOVAL	EA		1/1/2015	6/30/2015
0641 3 80	CONCRETE CCTV POLE, COMPLETE POLE REMOVAL	EA		1/1/2015	6/30/2015
0641 3163	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 63'	EA		1/1/2015	
0641 3169	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 69'	EA		1/1/2015	
0641 3175	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 75'	EA		1/1/2015	
0641 3180	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 80'	EA		1/1/2015	
0641 3186	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 86'	EA		1/1/2015	
0641 3263	CONCRETE CCTV POLE, FURNISH & INSTALL WITHOUT LOWERING DEVICE, 63'	EA		1/1/2015	
0641 3269	CONCRETE CCTV POLE, FURNISH & INSTALL WITHOUT LOWERING DEVICE, 69'	EA		1/1/2015	
0641 3275	CONCRETE CCTV POLE, FURNISH & INSTALL WITHOUT LOWERING DEVICE, 75'	EA		1/1/2015	
0641 3286	CONCRETE CCTV POLE, FURNISH & INSTALL WITH OUT LOWERING DEVICE, 86'	EA		1/1/2015	
0641 3700	CONCRETE CCTV POLE, SHALLOW POLE REMOVAL	EA		1/1/2015	
0641 3800	CONCRETE CCTV POLE, COMPLETE POLE REMOVAL	EA		1/1/2015	

**643- 1- STRAIN POLE, GUYING, WOOD**

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

**Notes**

**Details** This pay item is for traffic control devices, including traffic signals and ITS devices.

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      SBStrainPoles: Summary of Strain Poles, or  
SHStrainPole: Strain Pole Schedule  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**                      No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**                      Normally requires SHOP DRAWINGS  
**Standards**                      Index No. 17356, 17727  
**Specifications**

**T: Plan Details and/or Technical Specifications required**

*TRNS\*PORT Category (DRAFT FIELD):* 0500                      Signalization (or ITS)

**Struct.**    **643- 1-                      STRAIN POLE, GUYING, WOOD                      EA**

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0643 1	STRAIN POLE, WOOD, GUYING	EA		1/1/2013	

**643-ABB- STRAIN POLE, WOOD**

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

**Notes**

**Details**

This pay item is for traffic control devices, including traffic signals and ITS devices.

REMOVE: All wood poles are to be removed completely. Payment includes the removal of all attachments.

**Related Items**

**Required**    **Recommended** 643- 1- (2643- 1)

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

SBStrainPoles: Summary of Strain Poles, or  
SHStrainPole: Strain Pole Schedule  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**T: Plan Details and/or Technical Specifications required**

*TRNS\*PORT Category (DRAFT FIELD):* 0500    Signalization (or ITS)

**Struct. 643-ABB- STRAIN POLE, WOOD EA**

A = Operation  
1 (Furnish & Install)  
3 (Install) furnished by local agency  
4 (Relocate)  
6 (Remove) BB=00  
BB = Pole Length (Specified In 5' Increments Only)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0643125	STRAIN POLE, WOOD, F&I, 25'	EA		1/1/2013	
0643130	STRAIN POLES, WOOD, FURNISH & INSTALL, 30'	EA		1/1/2013	
0643140	STRAIN POLE, WOOD, FURNISH & INSTALL, 40'	EA		1/1/2013	

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0643145	STRAIN POLES, WOOD, FURNISH & INSTALL, 45'	EA		1/1/2013
0643150	STRAIN POLE, WOOD, F&I, 50'	EA		1/1/2013
0643155	STRAIN POLES, WOOD, FURNISH & INSTALL, 55'	EA		1/1/2013
0643600	STRAIN POLE, WOOD, REMOVE	EA	T	1/1/2013

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**646- 1- AB ALUMINUM SIGNALS POLE**

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

**Notes**

**Details**

To be used in accordance with Design Standards, Index Nos. 17764 and 17784.

INSTALL: The install operation should only be used when the item is furnished by FDOT or the local agency, for installation by the contractor. Include instructions in the plans for obtaining the pole.

REMOVE: The removal of the foundation is included with the removal of the pedestal, unless otherwise noted in the plans. All attachments are included with the removal of the pole (pedestrian detector, pedestrian signal, etc.)

**Related Items**

**Required**    **Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
 Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation  
 Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**              Index 17764  
**Specifications**

**TRNS\*PORT Category (DRAFT FIELD):**    0500    Signalization (or ITS)

**Struct.**    **646- 1- AB**                                      **ALUMINUM SIGNALS POLE**                                      **EA**

A= Operation  
 1 (Furnish & Install)  
 3 (Install) B=0  
 4 (Relocate) B=0  
 6 (Remove) B=0  
 B= Pole Type  
 1 (Pedestal)  
 2 (Pedestrian Detector Post)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

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Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA		1/1/2013	
0646 1 12	ALUMINUM SIGNALS POLE, FURNISH & INSTALL PEDESTRIAN DETECTOR POST	EA		1/1/2013	
0646 1 30	ALUMINUM SIGNALS POLE, INSTALL	EA		1/1/2014	
0646 1 40	ALUMINUM SIGNALS POLE, RELOCATE	EA		1/1/2014	
0646 1 60	ALUMINUM SIGNALS POLE, REMOVE	EA		1/1/2013	

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**649- 1- AB STEEL STRAIN POLE**

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

**Notes**

**Details**

This pay item is for traffic control devices, including traffic signals and ITS devices. Pole description, including the type, height, and other details must be included in the signal plans.

PEDESTRIAN PEDESTAL: Details are provided on Index 17723 and 17764.

REMOVAL: Per the specification, includes the removal of all attachments (arms, signals, light fixtures, etc.)

Shallow foundation removal= 4 foot depth

Deep foundation removal= complete removal

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

SBStrainPoles: Summary of Strain Poles, or  
SHStrainPole: Strain Pole Schedule  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**      Index 17723 and 17764.  
**Specifications**

**T: Selected Items may require Plan Details and/or Technical Specifications**

**TRNS\*PORT Category (DRAFT FIELD):**    0500                      Signalization (or ITS)

**Struct.**    **649- 1- AB**                      **STEEL STRAIN POLE**                      **EA**

- A= Operation
- 1 (Furnish & Install)
- 3 (Install) B=0
- 6 (Remove) See B= Removal Details
- B = Pole Type (defined in Design Standards)
- 0 (Pedestal)
- 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)

B= Removal Details

1 (Pedestal or service pole) complete removal

2 (Type PS poles; foundation remains)

3 (Shallow, Bolt on Attachment)

5 (Deep, Bolt on Attachment)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0649 1 10	STEEL STRAIN POLE, F&I, PEDESTAL	EA		1/1/2013	
0649 1 11	STEEL STRAIN POLE, F&I, TYPE PS- IV	EA		1/1/2013	
0649 1 12	STEEL STRAIN POLE, F&I, TYPE PS- V	EA		1/1/2013	
0649 1 13	STEEL STRAIN POLE, F&I, TYPE PS- VI	EA		1/1/2013	
0649 1 14	STEEL STRAIN POLE, F&I, TYPE PS- VII	EA		1/1/2013	
0649 1 15	STEEL STRAIN POLE, F&I, TYPE PS- VIII	EA		1/1/2013	
0649 1 16	STEEL STRAIN POLE, F&I, TYPE PS- IX	EA		1/1/2013	
0649 1 17	STEEL STRAIN POLE, F&I, TYPE PS- X	EA		1/1/2013	
0649 1 61	STEEL STRAIN POLE, REMOVE PEDESTAL OR SERVICE POLE- COMPLETE REMOVAL	EA		1/1/2015	
0649 1 62	STEEL STRAIN POLE, REMOVE TYPE PS POLE- FOUNDATION REMAINS	EA		1/1/2015	
0649 1 63	STEEL STRAIN POLE, REMOVE, SHALLOW FOUNDATION REMOVAL, BOLT ON ATTACHMENT	EA		1/1/2015	
0649 1 65	STEEL STRAIN POLE, REMOVE, DEEP FOUNDATION REMOVAL, BOLT ON ATTACHMENT	EA		1/1/2015	

**649- 2-ABB STEEL CCTV POLE**

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

**Notes**                      **Effective January 2015 letting; replaces 785 poles for ITS applications.**

**Details**                      To be used in accordance with Design Standards, Index No. 18113.

REMOVAL: Per the specification, includes the removal of all attachments (camera, lowering device, etc.)  
Shallow foundation removal= 4 foot depth  
Deep foundation removal= complete removal

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

**Plan Summary**                      Signalization: Tabulation of Quantities  
**Box**                                      Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter**  
    **Trns-port**  
    **Other**  
    **Standards**  
    **Specifications**

*TRNS\*PORT Category (DRAFT FIELD):*    0500    Signalization (or ITS)

**Struct.**    **649- 2-ABB**                                      **STEEL CCTV POLE**    **EA**

A= Operation  
1 (Furnish & Install, with Lowering Device)  
2 (Furnish & Install, without Lowering Device)  
3 (Install) B=0  
6 (Remove) see remove options below

BB= Pole Height  
50 (50')  
55 (55')  
60 (60')  
65 (65')  
70 (70')

BB=Remove Options  
01 (Pole only, entire foundation remains)  
03 (Shallow foundation removal, Bolt on attachment)  
05 (Deep/Complete foundation removal, Bolt on attachment)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0649 2150	STEEL CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 50'	EA		1/1/2014	
0649 2170	STEEL CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 70'	EA		1/1/2014	
0649 2250	STEEL CCTV POLE, FURNISH & INSTALL WITHOUT LOWERING DEVICE, 50'	EA		1/1/2014	
0649 2255	STEEL CCTV POLE, FURNISH & INSTALL WITHOUT LOWERING DEVICE, 55'	EA		1/1/2014	
0649 2260	STEEL CCTV POLE, FURNISH & INSTALL WITHOUT LOWERING DEVICE, 60'	EA		1/1/2014	
0649 2265	STEEL CCTV POLE, FURNISH & INSTALL WITHOUT LOWERING DEVICE, 65'	EA		1/1/2014	
0649 2270	STEEL CCTV POLE, FURNISH & INSTALL WITHOUT LOWERING DEVICE, 70'	EA		1/1/2014	
0649 2601	STEEL CCTV POLE, REMOVE POLE-FOUNDATION REMAINS	EA		1/1/2014	
0649 2603	STEEL CCTV POLE, REMOVE POLE-SHALLOW FOUNDATION REMOVAL, BOLT ON ATTACHMENT	EA		1/1/2014	
0649 2605	STEEL CCTV POLE, REMOVE POLE-COMPLETE/DEEP FOUNDATION REMOVAL, BOLT ON ATTACHMENT	EA		1/1/2014	

**649- 1A-BBB MONOTUBE ASSEMBLIES, STEEL**

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

**Notes**

**Valid through 12-31-14; call to request extended valid dates.**

**Details**

This pay item is for traffic control devices, including traffic signals and ITS devices.

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. Tech Specs and/or Plan Details will be required for structural size/shape, material requirements, installation details, and measurement/payment. Foundation is to be included in the price for the complete assembly.

REMOVE: Steel poles are normally attached to a drilled shaft foundation. Payment includes the removal of all attachments (signals, signs, etc.)

For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of 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).

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

SHMono Tube: Monotube Tabulation  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

Index No. 17746 (Index valid through 12/2007)

**T: Plan Details and/or Technical Specifications required**

**TRNS\*PORT Category (DRAFT FIELD):** 0500

Signalization (or ITS)

**Struct. 649- 1A-BBB MONOTUBE ASSEMBLIES, STEEL EA**

A = Operation  
1 (Furnish & Install)

6 (Remove) see remove options below.

BBB = Size

110 (110' span)

135 (135' span)

160 (160' span)

185 (185' span)

BBB= Remove Options

1 (Pole only, entire foundation remains)

3 (Shallow, Bolt on attachment)

5 (Deep, Bolt on attachment)

### Notes

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*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0649 11185	STEEL MONOTUBE ASSEMBLY, FURNISH & INSTALL, STANDARD 185' SPAN	EA	T	1/1/2013	12/31/2020

649- 3A-BCC		STEEL MAST ARM ASSEMBLY	
	<b>Unit</b>	<b>EA</b>	<b>Accuracy</b> Each
			<b>PlanQuantity?</b> no
<b>Notes</b>	<b>Remove operation effective January 2015; replaces 690 items.</b>		
<b>Details</b>	<p>This pay item is for traffic control devices, including traffic signals and ITS devices.</p> <p>Refer to PPM (Plans Preparation Manual) Vol 1, Chapters 7 and 29 for current FDOT Policy on the use of Mast Arms: in general, only to be used within 10 miles of coastline.</p> <p>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.</p> <p>When "w/ Luminaire" is used, detail luminaire requirements in the plans.</p> <p>Double Arm with luminaire requires special design (CC=99); not covered by design standard index. Complete calculations are required.</p> <p>BCC=999 (Custom) to be used only when wind loads, specifications and/or standards do not apply, due to significant design changes. Complete design calculations, including wind loads, are required in the plans.</p> <p>Note: For minor changes in arm lengths, such as field cuts, use the standard pay item, with a note in the plans for the final length.</p> <p>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.</p> <p>REMOVE: Detail Mast Arm Assemblies to be removed in the plans (Summary Box or Signals Tabulation Sheet). Includes the removal of the foundation, as well as any attachments (vehicular/pedestrian signals, pedestrian detector, lighting, etc.)</p> <p>For Plan Detail/Tech Spec items: The Designer should ensure that the description, materials, construction/installation requirements, method of measurement and basis of payment are available in the contract documents to clearly define the work to be completed for payment under this item.</p>		
<b>Related Items</b>	<b>Required</b>	<b>Recommended</b>	
<b>Plan Summary Box</b>	<p>Signalization: Tabulation of Quantities</p> <p>Summarize items by pay item and location.</p>		
<i>NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.</i>			
<b>Design Forms and Documentation</b>	<p>SHMastArmTab 1 or SHMAstArmTab 2: Signalization Mast Arm Tabulation, or SHSpecialMastArmDsgn or SHStandardMast ArmDsgn: Mast Arm Assembly 17745 or 17743</p> <p>Locate in plans. Summarize quantities by location on summary sheet in the plans.</p>		
<b>Construction Forms and Documentation</b>	<p>No additional form required; use plans summary or comp book</p> <p>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</p>		
<b>References</b>	<p><b>PPM Chapter</b> Vol 1, 7.4</p> <p><b>Trns-port</b></p> <p><b>Other</b></p>		

**Standards**  
**Specifications**

**T: Selected Items may require Plan Details and/or Technical Specifications**

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*TRNS\*PORT Category (DRAFT FIELD):* 0500

Signalization (or ITS)

**Struct. 649- 3A-BCC STEEL MAST ARM ASSEMBLY EA**

A = Operation

- 1 (Furnish & Install)
- 2 (Furnish & Install on Existing Foundation)
- 3 (Install) BCC=000
- 4 (Relocate) BCC=000
- 5 (Replace Arm on Existing Pole)
- 6 (Remove) see remove options below, effective January 2015
- 8 (Repair) 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 see details above

B= Remove Options

- 1 (Pole Only, entire foundation remains) CC=00
- 3 (Shallow, Bolt on attachment) CC=00
- 5 (Deep, Bolt on attachment) CC=00
- 7 (Remove Arm and attachments; Pole remains) CC=00

CC= Arm Length(s)

For Single Arms

- 01 (36)
- 02 (46)
- 03 (60)
- 04 (70.5)
- 05 (78)
- 06 (36 w/ Luminaire)
- 07 (46 w/ Luminaire)
- 08 (60 w/ Luminaire)
- 09 (70.5 w/ Luminaire)

For Double Arm w/o Luminaire

- 10 (36-36)
- 11 (36-46)
- 12 (36-60)
- 13 (36-70.5)
- 14 (46-46)
- 15 (46-60)
- 16 (46-70.5)
- 17 (60-60)
- 18 (60-70.5)
- 19 (70.5-70.5)

Custom/Non-Standard Arm Combinations

99= (Custom) B=9, see details above

**Notes** Include Arm Type/luminaire in TRNS\*PORT description

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0649 31101	STEEL MAST ARM,F&I, WIND SPEED-150,SINGLE ARM, W/O LUMINAIRE-36	EA		1/1/2013	
0649 31102	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,W/O LUMINAIRE-46	EA		1/1/2013	
0649 31103	MAST ARM,F&I, WIND SPEED-150, SINGLE ARM,W/O LUMINAIRE-60	EA		1/1/2013	
0649 31104	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,W/O LUMINAIRE-70.5	EA		1/1/2013	
0649 31105	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,W/O LUMINAIRE-78	EA		1/1/2013	
0649 31106	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM WITH LUMINAIRE-36'	EA		1/1/2013	
0649 31107	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,WITH LUMINAIRE-46	EA		1/1/2013	
0649 31108	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,WITH LUMINAIRE-60	EA		1/1/2013	
0649 31109	MAST ARM,F&I, WIND SPEED-150,SINGLE ARM,WITH LUMINAIRE-70.5	EA		1/1/2013	
0649 31110	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/O LUMINAIRE, 36-36	EA		1/1/2013	
0649 31111	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/O LUMINAIRE, 36-46	EA		1/1/2013	
0649 31112	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/O LUMINAIRE, 36-60	EA		1/1/2013	
0649 31113	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/O LUMINAIRE, 36-70.5	EA		1/1/2013	
0649 31114	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM, W/O LUMINAIRE, 46-46	EA		1/1/2013	
0649 31115	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM, W/O LUMINAIRE, 46-60	EA		1/1/2013	
0649 31116	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/O LUMINAIRE, 46-70.5	EA		1/1/2013	
0649 31117	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/O LUMINAIRE, 60-60	EA		1/1/2013	
0649 31118	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/O LUMINAIRE, 60-70.5	EA		1/1/2013	
0649 31119	MAST ARM,F&I, WIND SPEED-150,DOUBLE ARM,W/O LUMINAIRE, 70.5' AND 70.5'	EA		1/1/2013	
0649 31201	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/O LUMINAIRE-36	EA		1/1/2013	
0649 31202	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/O LUMINAIRE-46	EA		1/1/2013	
0649 31203	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/O LUMINAIRE-60	EA		1/1/2013	

0649 31204	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/O LUMINAIRE, ARM LENGTH 70.5	EA		1/1/2013
0649 31205	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/O LUMINAIRE, ARM LENGTH 78	EA		1/1/2013
0649 31206	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/ LUMINAIRE, ARM LENGTH 36'	EA		1/1/2013
0649 31207	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/ LUMINAIRE, ARM LENGTH 46	EA		1/1/2013
0649 31208	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/ LUMINAIRE, ARM LENGTH 60	EA		1/1/2013
0649 31209	MAST ARM,F&I, WIND SPEED-130,SINGLE ARM,W/ LUMINAIRE, ARM LENGTH 70.5	EA		1/1/2013
0649 31210	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/ LUMINAIRE, ARM LENGTH 36' AND 36'	EA		1/1/2013
0649 31211	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/O LUMINAIRE, 36-46	EA		1/1/2013
0649 31212	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/O LUMINAIRE, 36-60	EA		1/1/2013
0649 31213	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/O LUMINAIRE, 36-70.5	EA		1/1/2013
0649 31214	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/O LUMINAIRE, 46' AND 46'	EA		1/1/2013
0649 31215	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/O LUMINAIRE, 46-60	EA		1/1/2013
0649 31216	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/O LUMINAIRE, 46-70.5	EA		1/1/2013
0649 31217	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/O LUMINAIRE, 60-60	EA		1/1/2013
0649 31218	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/O LUMINAIRE, 60-70.5	EA		1/1/2013
0649 31219	MAST ARM,F&I, WIND SPEED-130,DOUBLE ARM,W/O LUMINAIRE, 70.5' AND 70.5'	EA		1/1/2013
0649 31299	MAST ARM,F&I, WIND SPEED-130, CUSTOM	EA	D	1/1/2013
0649 31301	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/O LUMINAIRE-36	EA		1/1/2013
0649 31302	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/O LUMINAIRE-46	EA		1/1/2013
0649 31303	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/O LUMINAIRE-60	EA		1/1/2013
0649 31304	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/O LUMINAIRE-70.5	EA		1/1/2013
0649 31305	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/O LUMINAIRE-78	EA		1/1/2013
0649 31306	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,WITH LUMINAIRE-36	EA		1/1/2013
0649 31307	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,WITH LUMINAIRE-46	EA		1/1/2013

0649 31308	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,WITH LUMINAIRE-60	EA		1/1/2013
0649 31309	MAST ARM,F&I, WIND SPEED-110,SINGLE ARM,W/ LUMINAIRE-70.5	EA		1/1/2013
0649 31310	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/O LUMINAIRE, 36' AND 36'	EA		1/1/2013
0649 31311	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/O LUMINAIRE, 36' AND 46'	EA		1/1/2013
0649 31312	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/O LUMINAIRE, 36' AND 60'	EA		1/1/2013
0649 31313	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/O LUMINAIRE, 36' AND 70.5'	EA		1/1/2013
0649 31314	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/O LUMINAIRE, 46' AND 46'	EA		1/1/2013
0649 31315	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/O LUMINAIRE, 46' AND 60'	EA		1/1/2013
0649 31316	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/O LUMINAIRE, 46' AND 70.5'	EA		1/1/2013
0649 31317	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/O LUMINAIRE, 60' AND 60'	EA		1/1/2013
0649 31318	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/O LUMINAIRE, 60-70.5	EA		1/1/2013
0649 31319	MAST ARM,F&I, WIND SPEED-110,DOUBLE ARM,W/O LUMINAIRE, 70.5' AND 70.5'	EA		1/1/2013
0649 31999	MAST ARM,F&I, CUSTOM WIND SPEED, CUSTOM ARM LENGTH(S)	EA	T	1/1/2013
0649 32000	STEEL MAST ARM,REPAIR/REPLACE/EXTEND ARM ONLY FOR EXISTING POLE	EA		1/1/2015
0649 32101	STEEL MAST ARM,F&I ON EXISTING FOUNDATION, WIND SPEED-150, SINGLE ARM,W/O LUMINAIRE-36	EA		1/1/2015
0649 32102	MAST ARM,F&I ON EXISTING FOUNDATION, WIND SPEED-150, SINGLE ARM,W/O LUMINAIRE-46	EA		1/1/2015
0649 32103	MAST ARM,F&I ON EXISTING FOUNDATION, WIND SPEED-150, SINGLE ARM,W/O LUMINAIRE-60	EA		1/1/2015
0649 32107	MAST ARM,F&I ON EXISTING FOUNDATION, WIND SPEED-150, SINGLE ARM,WITH LUMINAIRE-46	EA		1/1/2015
0649 32119	MAST ARM,F&I ON EXISTING FOUNDATION, WIND SPEED-150, DOUBLE ARM,W/O LUMINAIRE, 70.5' AND 70.5'	EA		1/1/2015
0649 33000	MAST ARM, INSTALL	EA		1/1/2013
0649 34000	MAST ARM, RELOCATE	EA		1/1/2013
0649 35103	MAST ARM,REPLACE ARM ON EXISTING STRUCTURE, WIND SPEED-150, SINGLE ARM,W/O LUMINAIRE-60	EA		1/1/2013

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0649 36100	MAST ARM, REMOVE POLE ONLY- ENTIRE FOUNDATION REMAINS	EA	1/1/2015
0649 36300	MAST ARM, REMOVE SHALLOW FOUNDATION, BOLT ON ATTACHMENT	EA	1/1/2015
0649 36500	MAST ARM, REMOVE DEEP/COMPLETE FOUNDATION, BOLT ON ATTACHMENT	EA	1/1/2015
0649 36700	MAST ARM, REMOVE ARM AND ATTACHMENTS- POLE REMAINS	EA	1/1/2015
0649 38000	MAST ARM, REPAIR	EA	1/1/2013

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**649- 40- A STEEL MAST ARM ASSEMBLY- RECOATING**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?**

**Notes**

**Details**

For Maintenance Use ONLY

Plan Details or Specifications must detail the material requirements, cleaning and installation instructions, as well as method of measurement (all work for cleaning and coating complete pole assembly or other).

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

*TRNS\*PORT Category (DRAFT FIELD):* 0500                      Signalization (or ITS)

**Struct. 649- 40- A STEEL MAST ARM ASSEMBLY- RECOATING EA**

A= Component  
blank (Complete Pole Assembly)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0649 40	STEEL MAST ARM ASSEMBLY- RECOATING COMPLETE ASSEMBLY	EA		1/1/2014	

650- 1- AB		VEHICULAR TRAFFIC SIGNAL	
	<b>Unit</b> AS	<b>Accuracy</b> Assembly	<b>PlanQuantity?</b> no
<b>Notes</b>	<p><b>Effective January 2015; replaces 650-A-BCD</b></p> <p><b>UPDATED: 650-A-BCD will be valid through 6/30/2015. BOTH the 650-A-BCD and the 650-1-AB pay items will be valid for January 2015 through June 2015.</b></p>		
<b>Details</b>	<p>This pay item is for traffic control devices, including traffic signals and ITS devices.</p> <p>Includes standard traffic signal, with LED indicators, backplates, visors, and all other materials necessary for a complete and accepted installation. If a non-standard hanger is required, detail it in the plans.</p> <p>INSTALL only: Signal to be furnished by FDOT or Maintaining Agency. Plans or Specifications must provide pick-up or delivery instructions. Contractor to furnish any incidentals for a complete installation.</p> <p>REMOVE (Effective 1/2015): No separate payment for signal head removal when the poles are to be removed. Refer to specs for poles removal- 641 through 649.</p> <p>RELOCATE: Includes the removal of the signal head and installation at the location shown in the plans. Payment includes signal cable and all other materials necessary for a complete and accepted relocation. DO NOT USE this item for Maintenance of Traffic (MOT) adjustments.</p>		
<b>Related Items</b>	<b>Required</b>	<b>Recommended</b>	
<b>Plan Summary Box</b>	<p>Signalization: Tabulation of Quantities</p> <p>Summarize items by pay item and location.</p>		
<i>NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.</i>			
<b>Design Forms and Documentation</b>	<p>tabqsg: Signalization Tabulation of Quantity Sheet</p> <p>Locate in plans. Summarize quantities by location on summary sheet in the plans.</p>		
<b>Construction Forms and Documentation</b>	<p>No additional form required; use plans summary or comp book</p> <p>Record final quantity on the tabulation sheet (plans) or computation form (comp book).</p>		
<b>References</b>	<p><b>PPM Chapter</b></p> <p><b>Trns-port</b></p> <p><b>Other</b></p> <p><b>Standards</b></p> <p><b>Specifications</b> Min Specs: Section A650</p> <p><a href="http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks">http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks</a></p>		
<b>TRNS*PORT Category (DRAFT FIELD):</b> 0500		Signalization (or ITS)	
<b>Struct.</b>	<b>650- 1- AB</b>	<b>VEHICULAR TRAFFIC SIGNAL</b>	<b>AS</b>
	<p>A = Operation</p> <p>1 (Furnish &amp; Install- Aluminum)*</p> <p>2 (Furnish &amp; Install- Polycarbonate with Aluminum Top Section)*</p>		

- 3 (Furnish & Install- Polycarbonate)\*
- 4 (Furnish & Install- Programmable)\*
- 5 (Install) B=0. Signal furnished by FDOT or Maintaining Agency.
- 6 (Remove- Poles to Remain) B=0.
- 7 (Relocate) B=0. DO NOT USE for MOT activities.

\*NOT to be used for adding a section to an existing assembly; see pay item 650-2 for adding sections.

- B= Sections, Ways
- 1 (1 Section, 1 way)
  - 2 (1 Section, 2-4 ways)
  - 3 (2 Section, 1-2 ways)
  - 4 (3 Section, 1 way)
  - 5 (3 Section 2-4 ways)
  - 6 (4 Section, 1 way)
  - 7 (4 Section, 2-4 ways)
  - 8 (5 Section- straight, 1 way)
  - 9 (5 Section-cluster, 1 way)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0650 1 11	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 1 SECTION, 1 WAY	AS		1/1/2015	
0650 1 12	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 1 SECTION, 2-4 WAY	AS		1/1/2015	
0650 1 13	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 2 SECTION, 1-2 WAYS	AS		1/1/2015	
0650 1 14	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS		1/1/2015	
0650 1 15	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 2-4 WAYS	AS		1/1/2015	
0650 1 16	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS		1/1/2015	
0650 1 18	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION STRAIGHT, 1 WAY	AS		1/1/2015	
0650 1 19	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS		1/1/2015	
0650 1 24	TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE W/ALUM TOP, 3 SECTION, 1 WAY	AS		1/1/2015	
0650 1 26	TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE W/ALUM TOP, 4 SECTION, 1 WAY	AS		1/1/2015	
0650 1 31	TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE, 1 SECTION, 1 WAY	AS		1/1/2015	6/30/2015

**650- 2-ABB VEHICULAR SIGNAL AUXILIARIES**

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

**Notes**                      **Effective January 2015, new structure to replace 659 items.**

**Details**                      This item is NOT TO BE USED FOR NEW SIGNAL ASSEMBLIES. All incidentals noted in the plans for new signals are included in the signal assembly.

This item is intended for repair/replacement/retrofit of existing signal assemblies. Tabulate items by location in the plans.

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

**Plan Summary**                      Signalization: Tabulation of Quantities  
**Box**                                      Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter**  
    **Trns-port**  
    **Other**  
    **Standards**  
    **Specifications**

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):** 0500                      Signalization (or ITS)

**Struct.**    **650- 2-ABB**                      **VEHICULAR SIGNAL AUXILIARIES**                      **EA**

- A= Operation
- 1 (Repair/Replace/Retrofit- Furnish & Install) NOT for use with new signal assemblies
- 3 (Repair/Replace/Retrofit- Install) Item furnished by local agency
- BB= Item
- 01 (Backplate – Black)
- 02 (Backplate – Black with Retroreflective Border)
- 05 (Tunnel Visor)
- 06 (12" LED Module – Standard)
- 07 (8" LED Module – Emergency Signal)
- 08 (Add section/s to existing signal assembly)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

650- A-BCD		TRAFFIC SIGNAL	
	<b>Unit</b>	AS	<b>Accuracy</b> Assembly <b>PlanQuantity?</b> no
<b>Notes</b>	<b>UPDATED: 650-A-BCD will be valid through 6/30/2015. BOTH the 650-A-BCD or the 650-1-AB pay items will be valid for January 2015 through June 2015.</b>		
<b>Details</b>	<p>This pay item is for "permanent" traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable. For Maintenance of Traffic (MOT) activities, refer to MOT specifications, section 102.</p> <p>Includes standard traffic signal, with LED indicators, backplates, visors, and all other materials necessary for a complete and accepted installation. If a non-standard hanger is required, detail it in the plans.</p> <p>INSTALL only: Signal to be furnished by FDOT or Maintaining Agency. Plans or Specifications must provide pick-up or delivery instructions. Contractor to furnish any incidentals for a complete installation.</p> <p>RELOCATE: Includes the removal of the signal head and installation at the location shown in the plans. Payment includes signal cable and all other materials necessary for a complete and accepted relocation. DO NOT USE this item for Maintenance of Traffic (MOT) adjustments.</p>		
<b>Related Items</b>	<b>Required</b>	<b>Recommended</b>	
<b>Plan Summary Box</b>	Signalization: Tabulation of Quantities Summarize items by pay item and location.		
<i>NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.</i>			
<b>Design Forms and Documentation</b>	tabqsg: Signalization Tabulation of Quantity Sheet Locate in plans. Summarize quantities by location on summary sheet in the plans.		
<b>Construction Forms and Documentation</b>	No additional form required; use plans summary or comp book Record final quantity on the tabulation sheet (plans) or computation form (comp book).		
<b>References</b>	<b>PPM Chapter</b> <b>Trns-port</b> <b>Other</b> <b>Standards</b> <b>Specifications</b> Min Specs: Section A650 <a href="http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks">http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks</a>		
<b>TRNS*PORT Category (DRAFT FIELD):</b>		0500	Signalization (or ITS)
<b>Struct.</b>	<b>650- A-BCD</b>	<b>TRAFFIC SIGNAL</b>	<b>AS</b>
	A = Operation 1 (Furnish & Install) 3 (Install) BCD=blank. Signal furnished by FDOT or Maintaining Agency. 4 (Relocate) BCD=blank. DO NOT USE for MOT activities. Remove: Use item 690-10 5 (Retrofit Existing Hanger Assembly) BCD=blank		

- B = Number Of Sections On Each Face  
C = Number Of Directions  
D = Type  
1 (Aluminum)  
2 (Polycarbonate with Aluminum Top Section)  
3 (Polycarbonate)  
4 (Programmable)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0650 1 44	TRAFFIC SIGNAL, FURNISH & INSTALL PROGRAMMABLE, 3 SECTION, 1 WAY	AS		1/1/2015	
0650 1 60	TRAFFIC SIGNAL, REMOVE- POLES TO REMAIN	AS		1/1/2015	
0650 1 70	TRAFFIC SIGNAL, RELOCATE	AS		1/1/2015	
0650 1111	TRAFFIC SIGNAL, F&I, 1 SECTION, 1 WAY, ALUMINUM	AS		1/1/2013	
0650 1112	TRAFFIC SIGNAL, F&I, 1 SECTION, 1 WAY, POLYCARBONATE WITH ALUMINUM TOP SECTION	AS		1/1/2013	
0650 1113	TRAFFIC SIGNAL, F&I, 1 SECTION, 1 WAY, POLYCARBONATE	AS		1/1/2013	
0650 1114	TRAFFIC SIGNAL, F&I, 1 SECTION, 1 WAY, PROGRAMMABLE	AS		1/1/2013	
0650 1121	TRAFFIC SIGNAL, F&I, 1 SECTION, 2 WAY, ALUMINUM	AS		1/1/2013	
0650 1122	TRAFFIC SIGNAL, F&I, 1 SECTION, 2 WAY, POLYCARBONATE WITH ALUMINUM TOP SECTION	AS		1/1/2013	
0650 1141	TRAFFIC SIGNAL, F&I, 1 SECTION, 4 WAY, ALUMINUM	AS		1/1/2013	
0650 1211	TRAFFIC SIGNAL, F&I, 2 SECTION, 1 WAY, ALUMINUM	AS		1/1/2013	
0650 1311	TRAFFIC SIGNAL, F&I, 3 SECTION, 1 WAY, ALUMINUM	AS		1/1/2013	
0650 1312	TRAFFIC SIGNAL, F&I, 3 SECTION, 1 WAY, POLYCARB W/ALUM TOP	AS		1/1/2013	
0650 1313	TRAFFIC SIGNAL, F&I, 3 SECTION, 1 WAY, POLYCARBONATE	AS		1/1/2013	
0650 1314	TRAFFIC SIGNAL, F&I, 3 SECTION, 1 WAY, PROGRAMMABLE	AS		1/1/2013	
0650 1321	TRAFFIC SIGNAL, F&I, 3 SECTION, 2 WAY, ALUMINUM	AS		1/1/2013	
0650 1322	TRAFFIC SIGNAL, FURNISH & INSTALL, 3 SECTION, 2 WAY, POLYCARB W/ALUM TOP	AS		1/1/2013	
0650 1323	TRAFFIC SIGNAL, F&I, 3 SECTION, 2 WAY, POLYCARBONATE	AS		1/1/2013	

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0650 1331	TRAFFIC SIGNAL, F&I, 3 SECTION, 3 WAY, ALUMINUM	AS		1/1/2013
0650 1341	TRAFFIC SIGNAL, F&I, 3 SECTION, 4 WAY, ALUMINUM	AS		1/1/2013
0650 1411	TRAFFIC SIGNAL, F&I, 4 SECTION, 1 WAY, ALUMINUM	AS		1/1/2013
0650 1412	TRAFFIC SIGNAL, FURNISH & INSTALL, 4 SECTION, 1 WAY, POLYCARB W/ALUMINUM TOP	AS		1/1/2013
0650 1413	TRAFFIC SIGNAL, F&I, 4 SECTION, 1 WAY, POLYCARBONATE	AS		1/1/2013
0650 1414	TRAFFIC SIGNAL, F&I, 4 SECTION, 1 WAY, PROGRAMMABLE	AS		1/1/2013
0650 1511	TRAFFIC SIGNAL, F&I, 5 SECTION, 1 WAY, ALUMINUM	AS		1/1/2013
0650 1512	TRAFFIC SIGNAL, FURNISH & INSTALL, 5 SECTION, 1 WAY, POLYCARB W/ALUM TOP	AS		1/1/2013
0650 1513	TRAFFIC SIGNAL, F&I, 5 SECTION, 1 WAY, POLYCARBONATE	AS		1/1/2013
0650 1514	TRAFFIC SIGNAL, F&I, 5 SECTION, 1 WAY, PROGRAMMABLE	AS		1/1/2013
0650 1521	TRAFFIC SIGNAL, F&I, 5 SECTION, 2 WAY, ALUMINUM	AS		1/1/2013
0650 2101	VEHICULAR SIGNAL AUXILIARIES, REPAIR/REPLACE/RETROFIT- FURNISH & INSTALL, BACKPLATE- BLACK	EA		1/1/2015
0650 2102	VEHICULAR SIGNAL AUXILIARIES, REPAIR/REPLACE/RETROFIT- FURNISH & INSTALL, BACKPLATE- BLACK WITH REFLECT BORDER	EA		1/1/2015
0650 2105	VEHICULAR SIGNAL AUXILIARIES, REPAIR/REPLACE/RETROFIT- FURNISH & INSTALL, TUNNEL VISOR	EA		1/1/2015
0650 2108	VEHICULAR SIGNAL AUXILIARIES, REPAIR/REPLACE/RETROFIT- FURNISH & INSTALL, ADD SECTION TO EXISTING SIGNAL ASSEMBLY	EA		1/1/2015
0650 3	TRAFFIC SIGNAL, INSTALL	AS	D	1/1/2013
0650 4	TRAFFIC SIGNAL, RELOCATE	AS	D	1/1/2013
0650 5	TRAFFIC SIGNAL, RETROFIT EXISTING HANGER ASSEMBLY	AS	T	1/1/2013

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Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0653 1 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS		1/1/2015	
0653 1 12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	AS		1/1/2015	
0653 1 40	PEDESTRIAN SIGNAL, RELOCATE	AS		1/1/2015	
0653 1 60	PEDESTRIAN SIGNAL, REMOVE PED SIGNAL- POLE/PEDESTAL TO REMAIN	AS		1/1/2015	

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**653-ABC- PEDESTRIAN SIGNAL**

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

**Notes**                      **Valid through 12-31-2014; replaced by 653-1 items**

**Details**                      This pay item is for traffic signals and traffic control devices only.  
Through December 2014: Refer to Minimum Specifications for Traffic Control Signal Devices.  
Effective January 2015: Refer to current specification for consolidated requirements.

LED Countdown is the current standard; refer to PPM Vol 1, Chapter 7.

REMOVE: No separate payment for removal of the Pedestrian Signal, when the pole/mast arm is being removed.

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

**Plan Summary**                      Signalization: Tabulation of Quantities  
**Box**                                      Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**                      No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**                      **PPM Chapter** Vol 1, Ch 7  
**Trns-port**  
**Other**  
**Standards**                      Index No. 17764, 17784  
**Specifications**                      Min Specs: Section A653

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):** 0500    Signalization (or ITS)

**Struct.**    **653-ABC-**    **PEDESTRIAN SIGNAL**    **AS**

- A = Operation
- 1 (Furnish & Install)
- 3 (Install) Items provided by local maintaining agency; BC=00
- 4 (Relocate) BC=00
- 6 (Remove) BC=00, through Dec 2014: use item 690-20
- B = Type Signal
- 1 (12" Incandescent) blocked 6-30-13
- 7 (Neon International Symbol Low Wattage) blocked 6-30-13
- 8 (LED)
- 9 (LED- Countdown) STANDARD
- C = Number Of Directions (Ways)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

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**654- 1- AB IN-ROADWAY LIGHT ASSEMBLY**

**Unit** AS                      **Accuracy** Assembly                      **PlanQuantity?** yes

**Notes**

**Details**

A Maintenance Agreement with the local agency is required; refer to the Traffic Engineering Manual for additional information. Per the MUTCD, "In-Roadway Warning Lights at crosswalks shall be installed only at marked crosswalks with applicable warning signs. They shall not be used at crosswalks controlled by YIELD signs, STOP signs, or traffic control signals."

COMPLETE SYSTEM: "the assembly includes in-roadway lights, signs, sign support structures, cabinet, electronics, wiring, and pedestrian detectors for a complete crossing. Solar panels are included in the cost of the assembly, when shown in the plans. " NOTE: Only 1 assembly is needed per midblock crossing.

LIGHT FIXTURE: Individual in-roadway lights. Used for Maintenance activities only. For new installations, this item is included in the complete system.

CABINET: Used for Maintenance activities only. For new installations, this item is included in the complete system.

ELECTRONICS: Used for Maintenance activities only. For new installations, this item is included in the complete system.

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INSTALL: Materials furnished by FDOT or Maintaining Agency. Not to be used for relocate operations.

RELOCATE: Includes the removal and reinstallation within the project.

ADJUST/MODIFY: Details must be provided in the plans/contract documents.

REMOVE: Materials become the property of the contractor, unless otherwise noted in the plans.

REPLACE: Includes the removal and F&I operations for maintenance activities.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
 Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation  
 Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

**References**

**PPM Chapter**

**Trns-port**

**Other**

**Standards**

MUTCD Chapter 4  
 TEM Section 3.8

**Specifications**

*TRNS\*PORT Category (DRAFT FIELD):* 0200 or other Roadway or other- see details

**Struct. 654- 1- AB IN-ROADWAY LIGHT ASSEMBLY AS**

- A= Operation  
 1 (Furnish & Install- AC Powered) B=1 or 2  
 2 (Furnish & Install- Solar Powered) B=1 or 2  
 3 (Install) Dept. Furnished Equipment; B=0  
 4 (Relocate) B=1, 2, or 3  
 5 (Adjust/Modify) B=1, 2, or 3  
 6 (Remove)  
 7 (Replace) Maintenance use only
- B= Component  
 0 (Complete Assembly) AS  
 1 (Light Fixture) EA, includes incidental wiring  
 2 (Cabinet) EA  
 3 (Electronics) EA, detail in plans

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0654 1 10	IN ROADWAY LIGHT ASSEMBLY, FURNISH & INSTALL- AC POWERED, COMPLETE ASSEMBLY	AS		1/1/2014	
0654 1 20	IN ROADWAY LIGHT ASSEMBLY, FURNISH & INSTALL- SOLAR POWERED, COMPLETE ASSEMBLY	AS		1/1/2014	

**654- 2- AB      RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (RRFB)**

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

**Notes**

**Details**

A Maintenance Agreement with the local agency is required; refer to the Traffic Engineering Manual for additional information.

COMPLETE ASSEMBLY: "includes a rectangular beacon and signs for each approach, sign support structure, cabinet, electronics, wiring, and pedestrian detector. Solar panels are included in the cost of the assembly, when shown in the plans." NOTE: a minimum of 2 assemblies is normally needed per mid-block crossing- one for each approach.

SINGLE DIRECTION: Includes beacons and signs for one direction, with "everything on the post" included.

BACK-TO-BACK: Includes beacons and signs for both directions, with "everything on the post" included.

CABINET: Used for Maintenance activities only. For new installations, this item is included in the complete system.

SIGNS AND RRFB UNIT: Includes the beacons, signs, AND attachment hardware for a single direction unit, for non-standard installations. When used on a non-standard support, specifications are required to modify the Method of Measurement; non-standard support/mast arm will be paid separately. Clearly define the signs with beacon pair as one unit, per each. Coordinate the use of this item with the State Traffic Operations Office.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

**References**

**PPM Chapter**

**Trns-port**

**Other**

**Standards**

MUTCD Chapter 4  
TEM Section 3.8

**Specifications**

**TRNS\*PORT Category (DRAFT FIELD):** 0200 or other      Roadway or other- see details

**Struct.**    654- 2- AB      **RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (RRFB)**      **Mixed**

- A= Operation  
 1 (Furnish & Install- AC Powered) B=1 or 2  
 2 (Furnish & Install- Solar Powered) B=1 or 2  
 3 (Install) Dept. Furnished Equipment; B=0  
 4 (Relocate) B=0  
 5 (Adjust/Modify) B=0  
 6 (Remove) B=0  
 7 (Replace) for Maintenance use- batteries/beacons
- B= Component  
 1 (Complete Assembly- Single Direction) AS  
 2 (Complete Assembly- Back-to-Back) AS  
 3 (Cabinet) EA  
 4 (Signs and RRFB unit) EA see details above

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0654 2 11	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- AC POWERED, COMPLETE ASSEMBLY- SINGLE DIRECTION	AS		1/1/2014	
0654 2 12	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- AC POWERED, COMPLETE ASSEMBLY- BACK TO BACK	AS		1/1/2014	
0654 2 14	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- AC POWERED, SIGNS AND RRFB UNIT	EA	A	5/7/2014	
0654 2 21	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR POWERED, COMPLETE ASSEMBLY- SINGLE DIRECTION	AS		1/1/2014	
0654 2 22	RECTANGULAR RAPID FLASHING BEACON, FURNISH & INSTALL- SOLAR POWERED, COMPLETE ASSEMBLY- BACK TO BACK	AS		1/1/2014	
0654 2 30	RECTANGULAR RAPID FLASHING BEACON, INSTALL	AS		1/1/2014	
0654 2 40	RECTANGULAR RAPID FLASHING BEACON, RELOCATE	AS		1/1/2014	
0654 2 50	RECTANGULAR RAPID FLASHING BEACON, ADJUST/MODIFY	AS		1/1/2014	
0654 2 60	RECTANGULAR RAPID FLASHING BEACON, REMOVE	AS		1/1/2014	

**654- 3- AB PEDESTRIAN HYBRID BEACON ASSEMBLY**

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

**Notes**

**Details**

A Maintenance Agreement with the local agency is required; refer to the Traffic Engineering Manual for additional information.

The Pedestrian Hybrid Beacon Assembly is the 3-section signal.

COMPLETE ASSEMBLY: "the assembly includes the 3-section signal, hardware, and backplate." NOTE: a minimum of 2 signal assemblies are required per approach.

SEPARATE PAY ITEMS ARE REQUIRED FOR pedestrian signals, cabinet, signs, mast arms, strain poles, or other support structures, and signal cable.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

**References**

**PPM Chapter**

**Trns-port**

**Other**

**Standards**

MUTCD Chapter 4  
TEM Section 3.8

**Specifications**

**TRNS\*PORT Category (DRAFT FIELD):** 0200 or other      Roadway or other- see details

**Struct. 654- 3- AB PEDESTRIAN HYBRID BEACON ASSEMBLY Mixed**

- A= Operation
- 1 (Furnish & Install) B=0
- 3 (Install) Dept. Furnished Equipment; B=0
- 4 (Relocate) B=0
- 5 (Adjust/Modify) B=0
- 6 (Remove) B=0
- 7 (Replace) B=0, Maintenance use only
- B= Component
- 0 (Complete Assembly) 3-section signal; AS

**Notes**

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*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0654 3 10	PEDESTRIAN HYBRID BEACON ASSEMBLY, FURNISH & INSTALL COMPLETE ASSEMBLY	AS		1/1/2014	
0654 3 60	PEDESTRIAN HYBRID BEACON ASSEMBLY, REMOVE	AS		1/1/2014	

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**659- 1-ABB MAST ARM, SPAN WIRE, AND POLE MOUNTING ASSEMBLIES**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?**

**Notes**                      **Effective January 2015, for RETROFIT/REPLACEMENT of mounting assemblies.**

**Refer to 650-2 for other signal auxiliaries.**

**Details**                      NO SEPARATE PAYMENT will be made for hangers on new signal installations. This item is valid for repair /replacement /retrofit applications only.

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**TRNS\*PORT Category (DRAFT FIELD):** 0500                      Signalization (or ITS)

**Struct.**    **659- 1-ABB**                      **MAST ARM, SPAN WIRE, AND POLE MOUNTING ASSEMBLIES**                      **EA**

A= Operation  
1 (Repair/Replace/Retrofit- Furnish & Install) NOT for use with new signal assemblies  
3 (Repair/Replace/Retrofit- Install) Item furnished by local agency  
  
BB= Component  
1 (Mast Arm Mounting Assembly) "Hanger"  
2 (Span Wire Mounting Assembly) "Hanger"  
3 (Pole Mounting Assembly)  
Other components, as requested

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

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Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0659 1101	MOUNTING ASSEMBLY, REPAIR/REPLACE/RETRO- FURNISH & INSTALL, MAST ARM MOUNTING ASSEMBLY	EA		1/1/2015	
0659 1102	MOUNTING ASSEMBLY, REPAIR/REPLACE/RETRO- FURNISH & INSTALL, MAST ARM MOUNTING ASSEMBLY	EA		1/1/2015	

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**659- A- BB SIGNAL HEAD- RETROFIT AUXILIARIES**

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

**Notes**                      **Valid through 12-31-2014. Replaced by 659-1-ABB (Hanger), and 650-2- items.**

**Details**                      This pay item is for the retrofit of traffic signals and traffic control devices only. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable. NOTE: Auxiliary Items for new installations are included in the Traffic Signal assembly.

INSTALL: Items to be furnished by FDOT or local/maintaining agency.

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**                      No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**    Min Specs: Section A659

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):**    0500    Signalization (or ITS)

**Struct.**    **659- A- BB**    **SIGNAL HEAD- RETROFIT AUXILIARIES**    **EA**

- A = Operation
- 1 (Furnish & Install)
- 3 (Install) item furnished by local agency
- BB = RETROFIT Item
- 01 (Backplate – Black)
- 02 (Backplate – Black with Retroreflective Border)
- 03 (Disconnect Hanger)
- 04 (Pivotal Hanger Assembly)
- 05 (Tunnel Visor)
- 06 (12" LED Module – Standard)
- 07 (8" LED Module – Emergency Signal)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

**660- 1-ABB LOOP DETECTOR, INDUCTIVE**

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

**Notes**

**Details**

This pay item is for traffic control devices, including traffic signals and ITS devices. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

Use with pay item 660-2.

DO NOT USE with other types of vehicle detectors, pay items 660-3 through 660-6.

REMOVE- Cabinet to remain: This pay item is to be used only when the cabinet is to remain. When the entire cabinet is to be removed, payment is included under the controller assembly (Cabinet, controller, and incidentals).

RELOCATE: This pay items is to be used when the Controller is relocated to a new cabinet. Show/detail the locations in the plans or summary box.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications** Min Specs: Section A660

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):** 0500                      Signalization (or ITS)

**Struct. 660- 1-ABB LOOP DETECTOR, INDUCTIVE EA**

- A = Operation
- 1 (Furnish & Install)
- 3 (Install) BB=00, Furnished by FDOT or Maintaining Agency
- 4 (Relocate) BB=00
- 6 (Remove- cabinet to remain) BB=00
- BB = Type
- 01 (Type 1, 1 Ch, R, S)
- 02 (Type 2, 1 Ch, R, S, TD)
- 03 (Type 3, 1 Ch, SS, S))
- 04 (Type 4, 1 Ch, SS, S, TD)
- 05 (Type 5, 2 Ch, SS, S)
- 06 (Type 6, 2 Ch, SS, S, TD)

07 (Type 7, 4 Ch, SS, S)  
08 (Type 8, 4 Ch, SS, S, TD)  
09 (Type 9, 2 Ch, SS, RM)  
10 (Type 10, 2 Ch, SS, RM, TD)  
11 (Type 11, 4 Ch, SS, RM)  
12 (Type 12, 4 Ch, SS, RM, TD)  
Legend  
Ch = Channel  
R = Relay Output  
S = Shelf Mounted  
TD = Time Delay  
RM = Rack Mounted  
SS = Solid State

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0660 1101	LOOP DETECTOR INDUCTIVE, F&I, TYPE 1	EA		1/1/2013	
0660 1102	LOOP DETECTOR INDUCTIVE, F&I, TYPE 2	EA		1/1/2013	
0660 1103	LOOP DETECTOR INDUCTIVE, F&I, TYPE 3	EA		1/1/2013	
0660 1104	LOOP DETECTOR, INDUCTIVE, F&I, TYPE 4, 2CHANNEL, SOLID STATE, SHELF MOUNTED, TIME DELAY	EA		1/1/2013	
0660 1105	LOOP DETECTOR, INDUCTIVE, F&I, TYPE 5, 2CHANNEL, SOLID STATE, SHELF MOUNTED	EA		1/1/2013	
0660 1106	LOOP DETECTOR INDUCTIVE , F&I, TYPE 6, 2 CH,SS,S,TD	EA		1/1/2013	
0660 1107	LOOP DETECTOR INDUCTIVE , F&I, TYPE 7, 4 CH,SS,S	EA		1/1/2013	
0660 1109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	EA		1/1/2013	
0660 1110	LOOP DETECTOR INDUCTIVE, F&I, TYPE 10	EA		1/1/2013	
0660 1111	LOOP DETECTOR INDUCTIVE, F&I, TYPE 11, 4 CH, SS, RM	EA		1/1/2013	
0660 1112	LOOP DETECTOR INDUCTIVE, F&I, TYPE 12, 4 CH, SS, RM, TD	EA		1/1/2013	
0660 1300	LOOP DETECTOR INDUCTIVE, INSTALL	EA		1/1/2013	
0660 1400	LOOP DETECTOR INDUCTIVE, RELOCATE	EA		1/1/2015	
0660 1600	LOOP DETECTOR INDUCTIVE, REMOVE-CABINET TO REMAIN	EA		1/1/2015	

**660- 2-ABB      LOOP ASSEMBLY**

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

**Notes**

**Details**

DO NOT USE FOR Traffic Monitoring Site loops.  
This pay item is for traffic control devices, including traffic signals and ITS devices. Refer to Minimum Specifications for Traffic Control Signal Devices, as applicable.

Includes cost of loop material, labor, etc. according to specifications.  
Use with pay item 660-1.

DO NOT USE with other types of vehicle detectors, pay items 660-3 through 660-6

**Related Items**

**Required**    **Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**      Index No. 17781  
**Specifications**      Min Specs: Section A660

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):**      0500                      Signalization (or ITS)

**Struct.      660- 2-ABB                      LOOP ASSEMBLY                      AS**

- A = Operation
- 1 (Furnish & Install)
- BB = Type
- 01 (Type A)
- 02 (Type B)
- 03 (Type C)
- 04 (Type D)
- 05 (Type E)
- 06 (Type F)
- 07 (Type G)
- 08 (Type H)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

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Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0660 2101	LOOP ASSEMBLY- F&I, TYPE A	AS		1/1/2013	
0660 2102	LOOP ASSEMBLY, F&I, TYPE B	AS		1/1/2013	
0660 2103	LOOP ASSEMBLY, F&I, TYPE C	AS		1/1/2013	
0660 2104	LOOP ASSEMBLY, F&I, TYPE D	AS		1/1/2013	
0660 2105	LOOP ASSEMBLY, F&I, TYPE E	AS		1/1/2013	
0660 2106	LOOP ASSEMBLY, F&I, TYPE F	AS		1/1/2013	
0660 2107	LOOP ASSEMBLY, F&I, TYPE G	AS		1/1/2013	

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**660- 3- AB      VEHICLE DETECTION SYSTEM- MICROWAVE**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?** yes

**Notes**

**Details**                      This item is intended for Vehicle Detection Systems, excluding Loop Systems. Details such as location of detectors, detection zones, and roadside components must be detailed in the plans.

For Loop Systems, see 660-1 and 660-2 pay items.

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**TRNS\*PORT Category (DRAFT FIELD):**    Multiple    Roadway, Signals, Lighting, etc

**Struct.**    **660- 3- AB**    **VEHICLE DETECTION SYSTEM- MICROWAVE**    **EA**

- A= Operation
- 1 (Furnish & Install) B=1 or 2
- 3 (Install) Department furnished equipment
- 4 (Relocate)
- 5 (Adjust/Modify)
- 6 (Remove) B=0
- 8 (Preventative Maintenance) B=0
- 9 (Diagnosis and Misc. Repair) B=0

- B= Component
- 0 (Complete System)
- 1 (Cabinet Equipment) Note: Pay item callout shall be used in plans to depict QTY and location of system components installed in cabinet.
- 2 (Above ground Equipment) Note: Pay item callout shall be used in plans to depict QTY and location of sensor(s). Mounting hardware and cabling is considered incidental to sensor.

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0660 3 11	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA		7/1/2013	
0660 3 12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA		7/1/2013	
0660 3 31	VEHICLE DETECTION SYSTEM- MICROWAVE, INSTALL- FDOT FURNISHED CABINET EQUIPMENT	EA		7/1/2013	
0660 3 32	VEHICLE DETECTION SYSTEM- MICROWAVE, INSTALL- FDOT FURNISHED, ABOVE GROUND EQUIPMENT	EA		7/1/2013	
0660 3 40	VEHICLE DETECTION SYSTEM - MICROWAVE, RELOCATE, COMPLETE SYSTEM	EA		7/1/2013	
0660 3 42	VEHICLE DETECTION SYSTEM - MICROWAVE, RELOCATE, ABOVE GROUND EQUIPMENT	EA		7/1/2013	
0660 3 51	VEHICLE DETECTION SYSTEM- MICROWAVE, ADJUST & MODIFY, CABINET EQUIPMENT	EA		7/1/2013	
0660 3 52	VEHICLE DETECTION SYSTEM - MICROWAVE, ADJUST & MODIFY, ABOVE GROUND EQUIPMENT	EA		7/1/2013	
0660 3 60	VEHICLE DETECTION SYSTEM - MICROWAVE, REMOVE, COMPLETE SYSTEM	EA		7/1/2013	

**660- 4- AB      VEHICLE DETECTION SYSTEM- VIDEO**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?** yes

**Notes**

**Details**

This item is intended for Vehicle Detection Systems, excluding Loop Systems. Details such as location of detectors, detection zones, and roadside components must be detailed in the plans.

For Loop Systems, see 660-1 and 660-2 pay items.

**Related Items**

**Required**    **Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**TRNS\*PORT Category (DRAFT FIELD):** Multiple                      Roadway, Signals, Lighting, etc

**Struct.    660- 4- AB                      VEHICLE DETECTION SYSTEM- VIDEO                      EA**

- A= Operation
- 1 (Furnish & Install)
- 3 (Install) Department furnished equipment
- 4 (Relocate)
- 5 (Adjust/Modify)
- 6 (Remove) B=0
- 8 (Preventative Maintenance) B=0
- 9 (Diagnosis and Misc. Repair) B=0
- B= Component
- 0 (Complete System)
- 1 (Cabinet Equipment ) Note: Pay item callout shall be used in plans to depict QTY and location of shelf-mount or detector-card style video processor(s). Supplemental interface hardware, cabling, and other system components are considered incidental to video processor(s).
- 2 (Above ground Equipment Note: Pay item callout shall be used in plans to depict QTY and location of camera(s). Mounting hardware and cabling is considered incidental to camera(s).

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0660 4 10	VEHICLE DETECTION SYSTEM- VIDEO, F&I, COMPLETE SYSTEM	EA		7/8/2014	6/30/2015
0660 4 11	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA		7/1/2013	
0660 4 12	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA		7/1/2013	
0660 4 41	VEHICLE DETECTION SYSTEM- VIDEO, RELOCATE CABINET EQUIPMENT	EA		7/1/2013	
0660 4 42	VEHICLE DETECTION SYSTEM- VIDEO, RELOCATE ABOVE GROUND EQUIPMENT	EA		7/1/2013	
0660 4 51	VEHICLE DETECTION SYSTEM- VIDEO, ADJUST/MODIFY CABINET EQUIPMENT	EA	T	7/1/2013	
0660 4 52	VEHICLE DETECTION SYSTEM- VIDEO, ADJUST/MODIFY ABOVE GROUND EQUIPMENT	EA	T	7/1/2013	
0660 4 60	VEHICLE DETECTION SYSTEM- VIDEO, REMOVE	EA	T	7/1/2013	

**660- 5- AB      VEHICLE DETECTION SYSTEM- WIRELESS MAGNETOMETER**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?** yes

**Notes**

**Details**

This item is intended for Vehicle Detection Systems, excluding Loop Systems. Details such as location of detectors, detection zones, and roadside components must be detailed in the plans.

For Loop Systems, see 660-1 and 660-2 pay items.

**Related Items**

**Required**    **Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**TRNS\*PORT Category (DRAFT FIELD):** Multiple                      Roadway, Signals, Lighting, etc

**Struct.      660- 5- AB                      VEHICLE DETECTION SYSTEM- WIRELESS MAGNETOMETER                      EA**

- A= Operation
- 1 (Furnish & Install)
- 3 (Install) Department furnished equipment
- 4 (Relocate)
- 5 (Adjust/Modify)
- 6 (Remove) B=0
- 8 (Preventative Maintenance) B=0
- 9 (Diagnosis and Misc. Repair) B=0
- B= Component
- 0 (Complete System) only for A=6, 8, or 9
- 1 (Cabinet Equipment) Note: Pay item callout shall be used in plans to indicate QTY and location of shelf mount or detector-card style cabinet interface hardware required. Cabling, and other system components are considered incidental to interface card(s).
- 2 (Above ground Equipment) Note: Pay item callout shall be used in plans to indicate QTY and location of access point(s) or repeater(s) required. Mounting hardware and cabling is considered incidental to access point(s) and repeater(s).
- 3 (In-Road Electronics) Note: Pay item callout shall be used in plans to indicate QTY and location of wireless magnetometer sensors embedded in roadway

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0660 5 11	VEHICLE DETECTION SYSTEM- WIRELESS MAGNETOMETER, FURNISH & INSTALL, CABINET EQUIPMENT	EA		7/1/2013	
0660 5 12	VEHICLE DETECTION SYSTEM- WIRELESS MAGNETOMETER, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA		7/1/2013	
0660 5 13	VEHICLE DETECTION SYSTEM- WIRELESS MAGNETOMETER, FURNISH & INSTALL, IN-ROAD ELECTRONICS	EA		7/1/2013	
0660 5 41	VEHICLE DETECTION SYSTEM- WIRELESS MAGNETOMETER, RELOCATE, CABINET EQUIPMENT	EA		7/1/2013	
0660 5 42	VEHICLE DETECTION SYSTEM- WIRELESS MAGNETOMETER, RELOCATE, ABOVE GROUND EQUIPMENT	EA		7/1/2013	
0660 5 43	VEHICLE DETECTION SYSTEM- WIRELESS MAGNETOMETER, RELOCATE, IN-ROAD ELECTRONICS	EA		7/1/2013	
0660 5 60	VEHICLE DETECTION SYSTEM- WIRELESS MAGNETOMETER, REMOVE	EA		7/1/2013	

**660- 6-ABC VEHICLE DETECTION SYSTEM- AVI "Automatic Vehicle Identification"**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?** yes

**Notes**

**Details**

This item is intended for Vehicle Detection Systems, excluding Loop Systems. Details such as location of detectors, detection zones, and roadside components must be detailed in the plans.

For Loop Systems, see 660-1 and 660-2 pay items.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

COMP 700-050-03: Linear Measurement, Component Weight, Per Hour, Per Day or Per Each Computation and Continuation  
Locate in the plans. Summarize quantities by location in the computation book.

**Construction Forms and Documentation**

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**TRNS\*PORT Category (DRAFT FIELD):** Multiple                      Roadway, Signals, Lighting, etc

**Struct. 660- 6-ABC VEHICLE DETECTION SYSTEM- AVI "Automatic Vehicle Identification" EA**

- A= Operation
- 1 (Furnish & Install)
- 3 (Install) Department furnished equipment
- 4 (Relocate)
- 5 (Adjust/Modify)
- 6 (Remove) BC=00
- 8 (Preventative Maintenance) BC=00
- 9 (Diagnosis and Misc. Repair) BC=00
- B= System Type
- 1 (Transponder)
- 2 (Bluetooth)
- 3 (License Plate)
- C= Component
- 0 (Complete System) only for A=8, 9
- 1 (Cabinet Equipment) Note: Pay item callout shall be used in plans to depict QTY and location of processing equipment. Supplemental interface hardware, cabling, and other system components are considered incidental to processing hardware.
- 2 (Above ground Equipment) Note: Pay item callout shall be used in plans to depict QTY and

location of cameras required by license plate system, QTY and location of antennas required by transponder or Bluetooth® systems. Additional pole-mounted hardware is considered incidental to camera(s) or antenna(s).

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0660 6111	VEHICLE DETECTION SYSTEM- AVI, TRANSPONDER, FURNISH & INSTALL, CABINET EQUIPMENT	EA		7/1/2013	
0660 6112	VEHICLE DETECTION SYSTEM- AVI, TRANSPONDER, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA		7/1/2013	
0660 6121	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA		7/1/2013	
0660 6122	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA		7/1/2013	
0660 6321	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, INSTALL- FDOT FURNISHED, CABINET EQUIPMENT	EA		7/1/2013	
0660 6322	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH INSTALL, ABOVE GROUND EQUIPMENT	EA		7/1/2013	
0660 6411	VEHICLE DETECTION SYSTEM- AVI, TRANSPONDER RELOCATE, CABINET EQUIPMENT	EA		7/1/2013	
0660 6412	VEHICLE DETECTION SYSTEM- AVI, TRANSPONDER RELOCATE, ABOVE GROUND EQUIPMENT	EA		7/1/2013	
0660 6421	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH RELOCATE, CABINET EQUIPMENT	EA		7/1/2013	
0660 6422	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH RELOCATE, ABOVE GROUND EQUIPMENT	EA		7/1/2013	
0660 6500	VEHICLE DETECTION SYSTEM- AVI, ADJUST/MODIFY COMPLETE SYSTEM	EA		7/1/2013	
0660 6600	VEHICLE DETECTION SYSTEM- AVI, REMOVE COMPLETE SYSTEM	EA	P	7/1/2013	

**663- 1-ABC SIGNAL PRIORITY AND PREEMPTION SYSTEM**

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

**Notes**

**Details**

This item is intended for bus and emergency vehicle pre-emption.

Tech Specs and/or plan details will be required, until specifications are available (expected July 2015 letting).

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
 Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

*TRNS\*PORT Category (DRAFT FIELD):* 0200 or other                      Roadway or other- see details

**Struct. 663- 1-ABC SIGNAL PRIORITY AND PREEMPTION SYSTEM EA**

- A=Operation
- 1 (Furnish & Install) C=0
- 3 (Install)
- 4 (Relocate) BC=00
- 5 (Adjust/Modify) BC=00
- 6 (Remove) BC=00
- B= Type
- 1 (Optical)
- 2 (GPS)
- 3 (Radio Frequency)
- C= Components
- 0 (Complete System)
- 1 (Cabinet Electronics)
- 2 (Detector)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0663 1110	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, COMPLETE SYSTEM	EA	T	7/1/2013	
0663 1111	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, CABINET ELECTRONICS	EA		7/1/2013	6/30/2015
0663 1112	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, DETECTOR	EA		7/1/2013	6/30/2015
0663 1120	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, COMPLETE SYSTEM	EA	T	7/1/2013	
0663 1129	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, EMITTER FOR BUS	EA	T	7/1/2013	6/30/2015
0663 1400	SIGNAL PRIORITY & PREEMPTION SYSTEM, RELOCATE	EA	P	7/1/2013	
0663 1500	SIGNAL PRIORITY & PREEMPTION SYSTEM, ADJUST/MODIFY	EA	T	7/1/2013	
0663 1600	SIGNAL PRIORITY & PREEMPTION SYSTEM, REMOVE	EA		7/1/2013	



B= Type  
1 (Standard)  
2 (Accessible)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0665 1 11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA		1/1/2014	
0665 1 12	PEDESTRIAN DETECTOR, FURNISH & INSTALL, ACCESSIBLE	EA		1/1/2014	
0665 1 30	PEDESTRIAN DETECTOR, INSTALL	EA		1/1/2014	
0665 1 40	PEDESTRIAN DETECTOR, RELOCATE	EA		1/1/2014	
0665 1 60	PEDESTRIAN DETECTOR, REMOVE-POLE/PEDESTAL TO REMAIN	EA		1/1/2014	

**670- 4- A INTERSECTION CONTROL BEACON CONTROLLER ASSEMBLY (Formerly Flashing Beacon Controller Assembly)**

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

**Notes**

**Details**

This pay item is for Intersection Control Beacon Assembly only.  
 Note that the controller assembly includes both the controller electronics and the cabinet.

NOT VALID for use with school zone or warning signs.  
 For sign beacons, refer to pay item 700-12. For Midblock crossings, refer to 654- pay items.

Intersection control beacons are described in the MUTCD, Section 4L.02 as " . . . One or more signal faces directed toward each approach to an intersection. Each signal face shall consist of one or more signal sections of a standard traffic signal face, with flashing CIRCULAR YELLOW or CIRCULAR RED signal indications in each signal face. They shall be installed and used only at an intersection to control two or more directions of travel. "

When installing an intersection control beacon, the following specs and pay items are applicable:  
 650: Traffic Signals (1 section, 3 or 4 way)  
 670: Traffic Controller Assembly (this item, described above)  
 Poles, cables, and conduit.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
 Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
 Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
 Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**

**Trns-port**

**Other**

**Standards** Index No. 17841

**Specifications** Min Specs: Section A670

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):** 0500                      Signalization (or ITS)

**Struct.**    **670- 4- A**                      **INTERSECTION CONTROL BEACON CONTROLLER ASSEMBLY (Formerly Flashing Beacon Controller Assembly)**                      **AS**

A =  
 1 (Furnish & Install)

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**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0670 4 1	INTERSECTION CONTROL BEACON CONTROLLER ASSEMBLY, FURNISH & INSTALL	AS		1/1/2013	

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**670- 5-ABC TRAFFIC CONTROLLER ASSEMBLY (Controller with cabinet)**

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

**Notes**                      **Remove item effective January 2015; replaces 690-50.**

**Details**                      This pay item is for traffic control devices, including traffic signals and ITS devices. Note that the controller assembly includes both the controller electronics and the cabinet.

FURNISH & INSTALL: includes all work and materials to set-up controller in the cabinet.

MODIFY: Tech specs required to detail work to be completed. DO NOT USE this pay item for set-up of new controllers.  
For Special Type, detail all components.

REMOVE: Includes the removal of the cabinet, all electronics, and base/foundation.

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

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**                      No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**

**Specifications**                      Min Specs: Section A670

**T: Selected Items may require Plan Details and/or Technical Specifications**

<http://www.dot.state.fl.us/specificationoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):**                      0500    Signalization (or ITS)

**Struct.**                      **670- 5-ABC**    **TRAFFIC CONTROLLER ASSEMBLY (Controller with cabinet)**                      **AS**

- A = Operation
- 1 (Furnish & Install)
- 3 (Install) BC=00; FDOT furnished
- 4 (Modify) BC=00; DO NOT USE with a new controller
- 5 (Relocate Controller and Cabinet) BC=00

- 6 (Remove Controller and Cabinet) BC=00 effective 1-1-15  
 B = Cabinet with Controller Type  
 1 (NEMA)  
 2 (Model 170)  
 3 (Special) Valid through 12-31-14  
 4 (Model 2070) Effective 1-1-14  
 5 (ATC) Effective 1-1-14  
 C = Special Features  
 0 (None)  
 1 (One Preemption Plan)  
 2 (Two Preemption Plans)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0670 5110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS		1/1/2013	
0670 5111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS		1/1/2013	
0670 5112	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 2 PREEMPTION	AS		1/1/2013	
0670 5120	TRAFFIC CONTROLLER ASSEMBLY, F&I, 170	AS		1/1/2013	
0670 5121	TRAFFIC CONTROLLER ASSEMBLY, F&I, 170, 1 PREEMPTION PLAN	AS		1/1/2013	
0670 5122	TRAFFIC CONTROLLER ASSEMBLY, F&I,170,2 PREEMPTION PLANS	AS		1/1/2013	
0670 5140	TRAFFIC CONTROLLER ASSEMBLY, FURNISH & INSTALL MODEL 2070	AS		1/1/2014	
0670 5141	TRAFFIC CONTROLLER ASSEMBLY, FURNISH & INSTALL, MODEL 2070, 1 PREEMPTION	AS		1/1/2014	
0670 5142	TRAFFIC CONTROLLER ASSEMBLY, FURNISH & INSTALL, MODEL 2070, 2 PREEMPTION	AS		1/1/2014	
0670 5151	TRAFFIC CONTROLLER ASSEMBLY, FURNISH & INSTALL, ATC, 1 PREEMPTION	AS		1/1/2014	
0670 5300	TRAFFIC CONTROLLER ASSEMBLY, INSTALL	AS		1/1/2013	
0670 5400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS	P	1/1/2013	
0670 5500	TRAFFIC CONTROLLER ASSEMBLY, RELOCATE CONTROLLER WITH CABINET	AS	P	1/1/2013	
0670 5600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS		1/1/2015	

**671- 2- AB TRAFFIC CONTROLLER (without cabinet)**

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

**Notes**

**Details**

For Traffic Controller with cabinet, see Traffic Controller Assembly, pay item 670-5-.

This pay item is for traffic control devices, including traffic signals and ITS devices. For repairs/replacement of controller component without cabinet, contact the BOE Coordinator for additional pay items.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications** Min Specs: Section A671

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):** 0500                      Signalization (or ITS)

**Struct. 671- 2- AB TRAFFIC CONTROLLER (without cabinet) EA**

- A =
- 1 (Furnish & Install)
- 3 (Install) B=0
- 4 (Modify) B=0
- 5 (Relocate Controller without cabinet) move to a new cabinet; B=0
- B = Type
- 1 (NEMA)
- 2 (170)
- 4 (2070)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

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Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0671 2 11	TRAFFIC CONTROLLER WITHOUT CABINET, F&I IN EXISTING CABINET, NEMA	EA		1/1/2013	
0671 2 12	TRAFFIC CONTROLLER WITHOUT CABINET, FURNISH & INSTALL IN EXISTING CABINET, 170	EA		1/1/2013	
0671 2 14	TRAFFIC CONTROLLER WITHOUT CABINET, FURNISH & INSTALL IN EXISTING CABINET, 2070	EA		1/1/2015	
0671 2 40	TRAFFIC CONTROLLER, MODIFY	EA	D	1/1/2013	
0671 2 50	TRAFFIC CONTROLLER, RELOCATE- WITHOUT CABINET	EA		1/1/2015	
0671 2 60	TRAFFIC CONTROLLER, REMOVE- CABINET TO REMAIN	EA		1/1/2015	

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**676- 1-ABB TRAFFIC SIGNAL CONTROLLER CABINET**

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

**Notes**                      **Effective January 2015, per Estimates Bulletin 14-05.**

**Details**                      This pay item group includes the cabinet only (no controller). Do not use this item for new installations, where a controller is needed. Refer to 670-5-ABC pay item group for Traffic Controller Assembly (cabinet with controller).

REMOVE: When removing the complete cabinet (cabinet and controller), use the 670-5-600 pay item. The 676-1-600 pay item for cabinet removal may be used ONLY when the existing cabinet is being replaced, and the existing controller is being relocated from the old cabinet.

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

**Plan Summary**                      Signalization: Tabulation of Quantities  
**Box**                                      Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter**  
    **Trns-port**  
    **Other**  
    **Standards**  
    **Specifications**

**TRNS\*PORT Category (DRAFT FIELD):**    0500    Signalization (or ITS)

**Struct.**    **676- 1-ABB**    **TRAFFIC SIGNAL CONTROLLER CABINET**    **EA**

- A= Operation
- 1 (Furnish & Install cabinet without controller)
- 3 (Install) BB=00 furnished by FDOT or local agency
- 4 (Relocate) BB=00
- 5 (Adjust /Modify) BB=00
- 6 (Remove) BB=00; see detail
- BB= Description- Function,
- Wired cabinet, without controller
- 11 (NEMA Traffic Signal Controller Cabinet , Type/Size 1, 16" W x 24" H x 12" D)
- 12 (NEMA Traffic Signal Controller Cabinet , Type/Size 2, 20" W x 32" H x 14" D)
- 13 (NEMA Traffic Signal Controller Cabinet , Type/Size 3, 24" W x 40" H x 15" D)
- 14 (NEMA Traffic Signal Controller Cabinet , Type/Size 4, 24" W x 46" H x 16" D)
- 15 (NEMA Traffic Signal Controller Cabinet , Type/Size 5, 30" W x 48" H x 16" D)
- 16 (NEMA Traffic Signal Controller Cabinet, Type/Size 6, 44" W x 52" H x 24" D)
- 17(NEMA Traffic Signal Controller Cabinet , Type/Size 7, 44" W x 72" H x 24" D)
- 21 (170 Traffic Signal Controller Cabinet 332, 24"W x 66"H x 30"D)
- 22 (170 Traffic Signal Controller Cabinet 333, 44"W x 62"H x 28"D)

23 (170 Traffic Signal Controller Cabinet 552, 26"W x 55"H x 22"D)  
24 (170 Traffic Signal Controller Cabinet 662, 26"W x 66"H x 22"D)  
Sizes 1-4 typically used for repair/replacement of school zone flashers and similar.

UNWIRED cabinet

31 (NEMA Cabinet- unwired , Type/Size 1, 16" W x 24" H x 12" D)  
32 (NEMA Cabinet- unwired, Type/Size 2, 20" W x 32" H x 14" D)  
33 (NEMA Cabinet- unwired , Type/Size 3, 24" W x 40" H x 15" D)  
34 (NEMA Cabinet- unwired , Type/Size 4, 24" W x 40" H x 15" D)  
35 (NEMA Cabinet- unwired , Type/Size 5, 30" W x 48" H x 16" D)  
36 (NEMA Cabinet- unwired , Type/Size 6, 44" W x 52" H x 24" D)  
37 (NEMA Cabinet- unwired , Type/Size 7, 44" W x 72" H x 24" D)  
41 (170 Cabinet- unwired, 332, 24"W x 66"H x 30"D)  
42 (170 Cabinet- unwired, 333, 44"W x 62"H x 28"D)  
43 (170 Cabinet- unwired, 552, 26"W x 55"H x 22"D)  
44 (170 Cabinet- unwired, 662, 26"W x 66"H x 22"D)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0676 1111	TRAFFIC SIGNAL CONTROLLER CABINET, FURNISH & INSTALL WITHOUT CONTROLLER, NEMA SIZE 1, 16" W X 24" H X 12" D	EA		1/1/2015	
0676 1116	TRAFFIC SIGNAL CONTROLLER CABINET, FURNISH & INSTALL WITHOUT CONTROLLER, NEMA SIZE6, 44" W X 52" H X 24" D	EA		1/1/2015	
0676 1135	TRAFFIC SIGNAL CONTROLLER CABINET, FURNISH & INSTALL W/OUT CONTROLLER, NEMA UNWIRED SIZE 5, 30" W X 48" H X 16" D	EA		1/1/2015	
0676 1500	TRAFFIC SIGNAL CONTROLLER CABINET, ADJUST/MODIFY	EA		1/1/2015	
0676 1600	TRAFFIC SIGNAL CONTROLLER CABINET, REMOVE	EA		1/1/2015	

**676- 2-ABC ITS CABINET**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?**

**Notes**                      **Effective January 2015, per Estimates Bulletin 14-05.**

**Details**                      This cabinet is typically used to house traffic control devices and other electronics associated with Intelligent Transportation Systems. For unwired cabinets, use pay item 676-1-ABB.

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
 Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter**  
    **Trns-port**  
    **Other**  
    **Standards**  
    **Specifications**

**TRNS\*PORT Category (DRAFT FIELD):**

**Struct.**    **676- 2-ABC**                      **ITS CABINET**    **EA**

- A= Operation
- 1 (Furnish & Install)
- 3 (Install) BB=00
- 4 (Relocate) BB=00
- 5 (Adjust /Modify) BB=00
- 6 (Remove) BB=00
- B= Description- Function, Type and Size
- 1 (ITS Cabinet, pole mount)
- 2 (ITS Cabinet, pole mount w/sunshields)
- 3 (ITS Cabinet, base mount)
- 4 (ITS Cabinet, base mount w/sunshields)
- For unwired cabinet, use 676-1.
- C=Type and Size, per 676-2.5 of specs
- 1 (336, 24" W x 36" H x 20" D)
- 2 (336S, 24" W x 46" H x 22" D)
- 3 (334, 24" W x 66" H x 30" D)
- 4 (Other, 44"W x 60"H x 25"D) Requires spec change to 676-2.5 "Dimensions as shown in the plans/pay item"

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0676 2111	ITS CABINET, FURNISH & INSTALL, POLE MOUNT, 336, 24" W X 36" H X 20" D	EA		1/1/2015	
0676 2112	ITS CABINET, FURNISH & INSTALL, POLE MOUNT, 336S, 24" W X 46" H X 22" D	EA		1/1/2015	
0676 2121	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336, 24" W X 36" H X 20" D	EA		1/1/2015	
0676 2122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA		1/1/2015	
0676 2131	ITS CABINET, FURNISH & INSTALL, BASE MOUNT, 336, 24" W X 36" H X 20" D	EA		1/1/2015	
0676 2132	ITS CABINET, FURNISH & INSTALL, BASE MOUNT, 336S, 24" W X 46" H X 22" D	EA		1/1/2015	
0676 2141	ITS CABINET, FURNISH & INSTALL, BASE MOUNT WITH SUNSHIELD, 336, 24" W X 36" H X 20" D	EA		1/1/2015	
0676 2142	ITS CABINET, FURNISH & INSTALL, BASE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA		1/1/2015	
0676 2143	ITS CABINET, FURNISH & INSTALL, BASE MOUNT, 334, 24" W X 66" H X 30" D	EA		1/1/2015	
0676 2144	ITS CABINET, FURNISH & INSTALL, BASE MOUNT, 340, 44" W X 60" H X 25" D	EA	T	1/1/2015	
0676 2400	ITS CABINET, RELOCATE	EA		1/1/2015	
0676 2500	ITS CABINET- ADJUST/MODIFY	EA	P	1/1/2015	
0676 2600	ITS CABINET- REMOVE	EA		1/1/2015	

**676- 3- AB SMALL EQUIPMENT ENCLOSURE**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?**

**Notes**                      **Effective January 2015, per Estimates Bulletin 14-05.**

**Details**                      This item is intended for use when a small equipment enclosure is needed, and not included in another payitem as a component of another assembly.

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

**Plan Summary**                      Signalization: Tabulation of Quantities  
**Box**                                      Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter**  
    **Trns-port**  
    **Other**  
    **Standards**  
    **Specifications**

*TRNS\*PORT Category (DRAFT FIELD):* 0500    Signalization (or ITS)

**Struct.**    **676- 3- AB**                                      **SMALL EQUIPMENT ENCLOSURE**    **EA**

A= Operation  
1 (Furnish & Install)  
3 (Install) BC=00  
4 (Relocate) BC=00  
5 (Adjust /Modify) BC=00  
6 (Remove) BC=00  
B= Description- Size  
0 (Less than 10"w x 13"h x 11"d)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0676 3 10	SMALL EQUIPMENT ENCLOSURE, FURNISH AND INSTALL, LESS THAN 10"W X 13"H X 11" D	EA		1/1/2015	

**677- 1- AB      EQUIPMENT SHELTER- Signals/ITS Only**

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

**Notes**                      **Effective July 2014, new specification section. Replaces 785-3 pay items.**

**Details**                      This pay item is intended for Signalization/ITS Equipment Shelters only.

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 pay item. Per the specification, fencing is included with the shelter payment.

INSTALL: Plan details required to identify materials provided by the Department (shelter-with or without electrical/HVAC), as well as materials/work to be completed by the contractor (foundation, fencing, etc.)

REMOVE: Plan details required to identify work to be completed, including whether fencing and/or foundation are to be removed. Detail any site restoration work to be included under this pay item, or use 110-1 clearing and grubbing for site restoration.

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
 Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter**  
    **Trns-port**  
    **Other**  
    **Standards**  
    **Specifications**

*TRNS\*PORT Category (DRAFT FIELD):*    0500    Signalization (or ITS)

**Struct.**    **677- 1- AB**                                      **EQUIPMENT SHELTER- Signals/ITS Only**                                      **EA**

- A= Operation
- 1 (Furnish & Install)
- 3 (Install)
- 6 (Remove) see detail
- B= Size- building exterior dimensions
- 1 (up to 120 ft2)
- 2 (121-170 ft2)
- 3 (171-250 ft2)
- 4 (Greater than 250 ft2)

**Notes**

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*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0677 1 11	EQUIPMENT SHELTER, FURNISH & INSTALL, UP TO 120 SF	EA		1/1/2015	
0677 1 61	EQUIPMENT SHELTER, REMOVE, UP TO 120 SF	EA		1/1/2015	

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**678- 1-ABB CONTROLLER ACCESSORIES**

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

**Notes**                      **Effective January 2015, per Estimates Bulletin 14-05.**

**Details**                      This pay item is for traffic control devices, including traffic signals and ITS devices.

No separate payment is made for accessories in new installations of Traffic Controller Assemblies. This item is intended for the replacement of components in an existing cabinet.

Additional items opened/expanded, upon request.

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**                      No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**    Min Specs: Section A678

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):**    0500    Signalization (or ITS)

**Struct.**    **678- 1-ABB**    **CONTROLLER ACCESSORIES**    **EA**

- A = Operation
- 1 (Furnish & Install)
- 3 (Install)
- BB = Type Of Controller Accessory
- 01 (Type 3 Conflict Monitor) valid through 12-31-2014
- 02 (Type 6 Conflict Monitor) valid through 12-31-2014
- 03 (Type 12 Conflict Monitor) valid through 12-31-2015
- 04 (Load Switch)
- 05 (Type 1 Flasher) valid though 12-31-2014
- 06 (Type 3 Flasher) valid though 12-31-2014
- 07 (Type 1 Time Switch)
- 08 (Type 2 Time Switch)
- 09 (Type 3 Time Switch)
- 10 (Type 4 Time Switch)
- 11 (Power Reduction Assembly) valid through 12/31/2014
- 12 (Master Clock Unit)
- 13 (GPS Time Sync)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0678 1103	CONTROLLER ACCESSORIES, F&I, TYPE 12CONFLICT MONITOR	EA		1/1/2013	12/31/2015
0678 1104	CONTROLLER ACCESSORIES, F&I, LOAD SWITCH	EA		1/1/2013	
0678 1107	CONTROLLER ACCESSORIES, F&I, TYPE 1 TIME SWITCH	EA		1/1/2013	
0678 1109	CONTROLLER ACCESSORIES, F&I, TYPE 3 TIME SWITCH	EA		1/1/2013	
0678 1110	CONTROLLER ACCESSORIES, F&I, TYPE 4 TIME SWITCH	EA		1/1/2013	
0678 1112	CONTROLLER ACCESSORIES, F&I, MASTER CLOCK UNIT	EA		1/1/2013	
0678 1113	CONTROLLER ACCESSORIES, F&I, GPS TIME SYNC	EA	T	1/1/2015	

**680- 1-ABC SYSTEM CONTROL EQUIPMENT**

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

**Notes**                      **Effective January 2015, per Estimates Bulletin 14-05.**

**Details**                      Specification currently only includes Adaptive Signal Control System.

Furnish & Install: Use BOTH 687-1-ABC pay items for cabinet equipment (1 each per cabinet) and above ground equipment (1 each per sensor).

INSTALL: Use BC=00. Detail components to be installed in the plans, including location of sensor(s). Components to be furnished by FDOT or local agency; include contact information in the plans.

ADJUST/MODIFY: Detail work to be completed in the plans or specifications.

REMOVE: Use BC=00. Detail work to be completed in the plans or specifications, including the quantity and location of the item(s) to be removed. Use a quantity of 1 each per complete system.

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

*TRNS\*PORT Category (DRAFT FIELD):*

**Struct.**    **680- 1-ABC**                      **SYSTEM CONTROL EQUIPMENT**                      **EA**

- A= Operation
- 1 (Furnish & Install) C=2 or 3
- 3 (Install) BC=00
- 4 (Relocate) BC=00
- 5 (Adjust/Modify) BC=00
- 6 (Remove) BC=00
- 9 (Diagnostic and Misc. Repair) BC=00
- B= System Type
- 1 (Adaptive Signal Control System - NEMA)
- 2 (Adaptive Signal Control System - 170)
- C= Component

- 0 (Complete System)
- 2 (Cabinet Equipment)
- 3 (Above Ground Equipment)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0680 1112	SYSTEM CONTROL EQUIPMENT, FURNISH & INSTALL, ADAPTIVE SIGNAL CONTROL SYSTEM- NEMA, CABINET EQUIPMENT	EA	T	1/1/2015	
0680 1113	SYSTEM CONTROL EQUIPMENT, FURNISH & INSTALL, ADAPTIVE SIGNAL CONTROL SYSTEM- NEMA, ABOVE GROUND EQUIPMENT	EA	T	1/1/2015	
0680 1122	SYSTEM CONTROL EQUIPMENT, FURNISH & INSTALL, ADAPTIVE SIGNAL CONTROL SYSTEM- 170, CABINET EQUIPMENT	EA	T	1/1/2015	
0680 1123	SYSTEM CONTROL EQUIPMENT, FURNISH & INSTALL, ADAPTIVE SIGNAL CONTROL SYSTEM- 170, ABOVE GROUND EQUIPMENT	EA	T	1/1/2015	
0680 1400	SYSTEM CONTROL EQUIPMENT, RELOCATE	EA		1/1/2015	6/30/2015
0680 1422	SYSTEM CONTROL EQUIPMENT, RELOCATE, ADAPTIVE SIGNAL CONTROL SYSTEM- 170, CABINET EQUIPMENT	EA	T	1/1/2015	
0680 1423	SYSTEM CONTROL EQUIPMENT, RELOCATE, ADAPTIVE SIGNAL CONTROL SYSTEM- 170, ABOVE GROUND EQUIPMENT	EA	T	1/1/2015	
0680 1600	SYSTEM CONTROL EQUIPMENT, REMOVE COMPLETE SYSTEM	EA	P	1/1/2015	
0680 1900	SYSTEM CONTROL EQUIPMENT, DIAG AND MISCELLANEOUS REPAIR	EA	P	1/1/2015	

**680-ABB- SYSTEM CONTROL EQUIPMENT**

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

**Notes**                      **Valid through 12-31-14. Contact Basis of Estimates Coordinator for replacement items.**

**Details**                      This pay item is for traffic signals and traffic control devices only. Detailed plan notes or specifications to be provided by designer.

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**                      No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**T: Plan Details and/or Technical Specifications required**

*TRNS\*PORT Category (DRAFT FIELD):* 0500    Signalization (or ITS)

**Struct. 680-ABB- SYSTEM CONTROL EQUIPMENT EA**

- A = Operation
- 1 (Furnish & Install)
- 3 (Install) Item furnished by local agency
- BB = Item As Described
- 06 (Communications Interface)
- 11 (Roadside Master)
- 15 (Autodial/Answer Ext Communications Modem)
- 16 (Fiber Optic, FSK Modem)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

**682- 1- AB      CCTV CAMERA**

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

**Notes**                      **Valid through June 2015 lettings; replaced by 682-1-ABC, to better define camera and video type. Either pay item may be used Jan-June 2015 lettings.**

**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.

For repair, replacement, and Maintenance Activities, contact the Basis of Estimates Coordinator.

REMOVE & DISPOSE: Plans or Specs should identify the limits of the item to be removed (incidental components, wiring, or other work).

REMOVE & STOCKPILE: Plans or Specs should indicate if the Contractor is to stockpile the item(s) within the project limits, or deliver to a FDOT maintenance yard. Include notes for protection of the camera until delivered to FDOT.

PREVENTIVE MAINTENANCE: Intended for Maintenance Contracts Only.

DIAGNOSTIC AND MISC REPAIR: Intended for Maintenance Contracts Only.

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
 Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter**  
    **Trns-port**  
    **Other**  
    **Standards**  
    **Specifications**

**TRNS\*PORT Category (DRAFT FIELD):** 0500    Signalization (or ITS)

**Struct.**    **682- 1- AB**                                      **CCTV CAMERA**    **EA**

- A= Operation
- 1 (Furnish & Install)
- 3 (Install) B=0
- 4 (Relocate) B=0
- 5 (Adjust /Modify) B=0
- 6 (Remove & Dispose) B=0

- 7 (Remove & Stockpile) B=0  
 B= Type  
 1 (Dome enclosure, pressurized)  
 2 (External positioner, pressurized)  
 3 (Dome enclosure, non-pressurized)  
 4 (External positioner, non-pressurized)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0682 1 11	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - PRESSURIZED	EA		1/1/2014	6/30/2015
0682 1 12	ITS CCTV CAMERA, F&I, EXTERNAL POSITIONER - PRESSURIZED	EA		1/1/2014	6/30/2015
0682 1 13	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON PRESSURIZED	EA		1/1/2014	6/30/2015
0682 1 14	ITS CCTV CAMERA, F&I, EXTERNAL POSITIONER , NON-PRESSURIZED	EA		1/1/2014	6/30/2015
0682 1 30	ITS CCTV CAMERA, INSTALL	EA		1/1/2014	6/30/2015
0682 1 40	ITS CCTV CAMERA, RELOCATE	EA		1/1/2014	6/30/2015
0682 1 50	ITS CCTV CAMERA, ADJUST/MODIFY	EA		1/1/2014	6/30/2015
0682 1 60	ITS CCTV CAMERA,, REMOVE & DISPOSAL	EA		1/1/2014	6/30/2015
0682 1 70	ITS CCTV CAMERA, REMOVE & STOCKPILE	EA		1/1/2014	6/30/2015
0682 1 80	ITS CCTV CAMERA, PREVENTATIVE MAINTENANCE	EA		1/1/2014	6/30/2015
0682 1 90	ITS CCTV CAMERA, DIAGNOSTIC AND MISCELLANEOUS REPAIR	EA		1/1/2014	6/30/2015

682- 1-ABC		CCTV CAMERA	
	<b>Unit</b>	EA	<b>Accuracy</b> Each <b>PlanQuantity?</b> no
<b>Notes</b>	<b>Replaces 682-1-AB, to better define camera and video type. Either pay item may be used Jan-June 2015 lettings.</b>		
<b>Details</b>	<p>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.</p> <p>For repair, replacement, and Maintenance Activities, contact the Basis of Estimates Coordinator.</p> <p>REMOVE &amp; DISPOSE: Plans or Specs should identify the limits of the item to be removed (incidental components, wiring, or other work).</p> <p>REMOVE &amp; STOCKPILE: Plans or Specs should indicate if the Contractor is to stockpile the item(s) within the project limits, or deliver to a FDOT maintenance yard. Include notes for protection of the camera until delivered to FDOT.</p> <p>PREVENTIVE MAINTENANCE: Intended for Maintenance Contracts Only.</p> <p>DIAGNOSTIC AND MISC REPAIR: Intended for Maintenance Contracts Only.</p>		
<b>Related Items</b>	<b>Required</b>	<b>Recommended</b>	
<b>Plan Summary Box</b>	Signalization: Tabulation of Quantities Summarize items by pay item and location.		
<i>NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.</i>			
<b>Design Forms and Documentation</b>			
<b>Construction Forms and Documentation</b>			
<b>References</b>	<b>PPM Chapter</b> <b>Trns-port</b> <b>Other</b> <b>Standards</b> <b>Specifications</b>		
<b>TRNS*PORT Category (DRAFT FIELD):</b>		0500	Signalization (or ITS)
<b>Struct.</b>	<b>682- 1-ABC</b>	<b>CCTV CAMERA</b>	<b>EA</b>
	A= Operation 1 (Furnish & Install) 3 (Install) Dept Furnished Equipment BC=00 4 (Relocate) BC=00 5 (Adjust/Modify) BC=00 6 (Remove) BC=00		

- 8 (Preventative Maintenance) BC=00 Maintenance contracts only
- 9 (Diagnosis and Misc Repair) BC=00 Maintenance contracts only
- B= Camera Type
  - 1 (Dome PTZ, pressurized)
  - 2 (External positioner PTZ, pressurized)
  - 3 (Dome PTZ, non-pressurized)
  - 4 (External positioner PTZ, non-pressurized)
  - 5 (Stationary)
- C= Video Type
  - 1 (Analog, standard Definition)
  - 2 (IP, standard Definition)
  - 3 (IP, high definition)
  - 4 (IP, thermal hybrid)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0682 1111	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - PRESSURIZED, IP, ANALOG-STANDARD DEFINITION	EA		1/1/2015	
0682 1112	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - PRESSURIZED, IP, STANDARD DEFINITION	EA		1/1/2015	
0682 1113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA		1/1/2015	
0682 1133	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON-PRESSURIZED, IP, HIGH DEFINITION	EA		1/1/2015	
0682 1300	ITS CCTV CAMERA, INSTALL	EA		1/1/2015	
0682 1400	ITS CCTV CAMERA, RELOCATE	EA		1/1/2015	
0682 1500	ITS CCTV CAMERA, ADJUST/MODIFY	EA		1/1/2015	
0682 1600	ITS CCTV CAMERA,, REMOVE & DISPOSAL	EA		1/1/2015	
0682 1800	ITS CCTV CAMERA, PREVENTATIVE MAINTENANCE	EA		1/1/2015	
0682 1900	ITS CCTV CAMERA, DIAGNOSTIC AND MISCELLANEOUS REPAIR	EA		1/1/2015	

**682- 2- AB VIDEO DISPLAY EQUIPMENT**

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

**Notes**

**Details**

Includes the furnishing and installing of video display devices and related display equipment, as described in the specifications.

RELOCATE: Provide the current and proposed locations in the plan details. Include a tabulation/summary of major components included for payment per each. Incidental components, related hardware, and wiring will be included with the relocation of the major components.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**TRNS\*PORT Category (DRAFT FIELD):** 0500                      Signalization (or ITS)

**Struct. 682- 2- AB VIDEO DISPLAY EQUIPMENT EA**

- A= Operation
- 1 (Furnish & Install)
- 3 (Install)
- 4 (Relocate) B=0
- 5 (Adjust /Modify) B=0
- 6 (Remove & Dispose) B=0
- 7 (Remove & Stockpile) B=0
- B= Equipment
- 1 (Video Display Control System) Hardware & Software
- 2 (Video Wall Display)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

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Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0682 2 11	VIDEO DISPLAY EQUIPMENT, FURNISH & INSTALL, VIDEO DISPLAY CONTROL SYSTEM	EA		1/1/2014	
0682 2 40	VIDEO DISPLAY EQUIPMENT, RELOCATE	EA	P	1/1/2014	

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**684- 1- A      MANAGED FIELD ETHERNET SWITCH**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?**

**Notes**

**Details**                      Refer to specification for details.

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

**Plan Summary Box**            Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**            **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

*TRNS\*PORT Category (DRAFT FIELD):* 0500                      Signalization (or ITS)

**Struct.    684- 1- A                      MANAGED FIELD ETHERNET SWITCH                      EA**

- A= Operation
- 1 (Furnish & Install)
- 3 (Install)
- 4 (Relocate)
- 5 (Adjust /Modify)
- 6 (Remove & Dispose)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0684 1 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA		1/1/2014	
0684 1 3	MANAGED FIELD ETHERNET SWITCH, INSTALL	EA		1/1/2014	
0684 1 4	MANAGED FIELD ETHERNET SWITCH, RELOCATE	EA		1/1/2014	
0684 1 5	MANAGED FIELD ETHERNET SWITCH, ADJUST / MODIFY	EA	D	1/1/2014	
0684 1 6	MANAGED FIELD ETHERNET SWITCH, REMOVE- CABINET TO REMAIN	EA		1/1/2014	

**684- 2- A      DEVICE SERVER**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?**

**Notes**

**Details**                      Refer to specification for details.

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

**Plan Summary Box**            Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**            **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

*TRNS\*PORT Category (DRAFT FIELD):* 0500                      Signalization (or ITS)

**Struct.**    **684- 2- A**                      **DEVICE SERVER**                      **EA**

- A= Operation
- 1 (Furnish & Install)
- 3 (Install)
- 4 (Relocate)
- 5 (Adjust /Modify)
- 6 (Remove & Dispose)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0684 2 1	DEVICE SERVER, FURNISH & INSTALL	EA		1/1/2014	
0684 2 3	DEVICE SERVER, INSTALL	EA		1/1/2014	
0684 2 4	DEVICE SERVER, RELOCATE	EA		1/1/2014	
0684 2 6	DEVICE SERVER, REMOVE- CABINET TO REMAIN	EA		1/1/2014	

**684- 3- AB DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?**

**Notes**

**Details** Refer to specification for details.

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

*TRNS\*PORT Category (DRAFT FIELD):* 0500                      Signalization (or ITS)

**Struct.**    **684- 3- AB**                      **DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER**                      **EA**

- A= Operation
- 1 (Furnish & Install)
- 3 (Install)
- 4 (Relocate)
- 5 (Adjust /Modify)
- 6 (Remove)
- B= Component
- 1 (Hardened Encoder)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0684 3 11	DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER FURNISH & INSTALL HARDENED ENCODER	EA		1/1/2014	
0684 3 31	DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER INSTALL HARDENED ENCODER	EA		1/1/2014	
0684 3 41	DIGITAL VIDEO ENCODER WITH SOFTWARE DECODER RELOCATE HARDENED ENCODER	EA		1/1/2014	

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0684 3 61	DIGITAL VIDEO ENCODER WITH SOFTWARE EA	1/1/2014
	DECODER REMOVE HARDENED ENCODER	

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**684- 4- AB DIGITAL VIDEO DECODER**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?**

**Notes**

**Details**

Refer to specification for details.

DO NOT USE this item with Digital Video Encoder; see details in specifications. 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**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**

- PPM Chapter**
- Trns-port**
- Other**
- Standards**
- Specifications**

**TRNS\*PORT Category (DRAFT FIELD):** 0500                      Signalization (or ITS)

**Struct. 684- 4- AB DIGITAL VIDEO DECODER EA**

- A= Operation
- 1 (Furnish & Install)
- 3 (Install)
- 4 (Relocate)
- 5 (Adjust /Modify)
- 6 (Remove & Dispose)
- B= Component\*
- 1 (Hardware based decoder)
- 2 (Software based decoder)
- \*Contact ITS section prior to opening

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

**684- 5- A MEDIA CONVERTER**

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

**Notes**

**Details**

Refer to specification for details.

"Includes furnishing, placement, and testing of equipment..." per specification.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities

Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**TRNS\*PORT Category (DRAFT FIELD):** 0500

Signalization (or ITS)

**Struct. 684- 5- A MEDIA CONVERTER EA**

- A= Operation
- 1 (Furnish & Install)
- 3 (Install)
- 4 (Relocate)
- 5 (Adjust /Modify)
- 6 (Remove & Dispose)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0684 5 1	MEDIA CONVERTER, FURNISH & INSTALL	EA		1/1/2014	
0684 5 3	MEDIA CONVERTER, INSTALL	EA		1/1/2014	
0684 5 4	MEDIA CONVERTER, RELOCATE	EA		1/1/2014	
0684 5 6	MEDIA CONVERTER, REMOVE- CABINET TO REMAIN	EA		1/1/2014	

**684- 6- AB WIRELESS COMMUNICATION DEVICE**

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

**Notes**

**Details**

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**TRNS\*PORT Category (DRAFT FIELD):** 0500                      Signalization (or ITS)

**Struct.**    **684- 6- AB**                      **WIRELESS COMMUNICATION DEVICE**                      **EA**

- A = Operation
- 1 (Furnish & Install)
- 3 (Install) B=0
- 4 (Relocate) B=0
- 5 (Adjust /Modify) B=0
- 6 (Remove and Dispose) B=0, Contractor takes ownership
- B= Type
- 1 (Ethernet Access Point)
- 2 (Ethernet Subscriber Unit)
- 3 (Serial Data Unit)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0684 6 11	WIRELESS COMMUNICATION DEVICE, FURNISH & INSTALL ETHERNET ACCESS POINT	EA	T	1/1/2014	
0684 6 12	WIRELESS COMMUNICATION DEVICE, FURNISH & INSTALL ETHERNET SUBSCRIBER UNIT	EA	T	1/1/2014	

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0684 6 30	WIRELESS COMMUNICATION DEVICE, INSTALL	EA	T	1/1/2014
0684 6 40	WIRELESS COMMUNICATION DEVICE, RELOCATE	EA	T	1/1/2014
0684 6 60	WIRELESS COMMUNICATION DEVICE, REMOVE	EA	T	1/1/2014

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**684- 7- MANAGED ETHERNET HUB SWITCH**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?**

**Notes**

**Details**

Tech Specs required.

Contact the Basis of Estimates Coordinator to extend valid dates; updated specifications pending.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
 Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

*TRNS\*PORT Category (DRAFT FIELD):*

**Struct. 684- 7- MANAGED ETHERNET HUB SWITCH EA**

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0684 7	MANAGED ETHERNET HUB SWITCH	EA	T	1/1/2015	12/31/2015

<b>684-Maint</b>	<b>ITS OPERATION Maintenance Contracts Only</b>
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<b>Unit</b>	Mixed	<b>Accuracy</b>	Refer to item structure and details	<b>PlanQuantity?</b>	?
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**Notes** **Maintenance Item: Not Valid for Construction Contracts**

**Details** MAINTENANCE CONTRACTS ONLY  
 Additional BOE details pending

<b>Related Items</b>	<b>Required</b>	<b>Recommended</b>
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<b>Plan Summary Box</b>	Maintenance Item- No Form Required NA
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*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

<b>References</b>	PPM Chapter Trns-port Other Standards Specifications
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*TRNS\*PORT Category (DRAFT FIELD):*

<b>Struct.</b>	<b>684-Maint</b>	<b>ITS OPERATION Maintenance Contracts Only</b>	<b>Mixed</b>
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**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

**685-ABB- SYSTEM AUXILIARIES**

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

**Notes**

**Details**

This pay item is for traffic control devices, including traffic signals and ITS devices.

UPS: DO not include this item when the UPS is included with the associated hardware, such as walk-in DMS or other signs or signals with power back-up.

MODEM: May be used for wireless communications. Tech Specs needed for modem requirements/features, as well as installation 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**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**T: Plan Details and/or Technical Specifications required**

**TRNS\*PORT Category (DRAFT FIELD):** 0500                      Signalization (or ITS)

**Struct. 685-ABB- SYSTEM AUXILIARIES EA**

- A = Operation
- 1 (Furnish & Install)
- 3 (Install)
- BB = Item As Described
- 06 (Uninterruptible Power Source)
- 20 (Telemetry Transceiver)
- 27 (Telephone Connection Box)
- 28 (Interface Panel)
- 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)
- 61 (Modem)

\*\*\*\*\*

The following items are valid through 12-31-2014

- 01 (RF Modulator)
- 02 (Multi-Plex Field Transceiver, Wire)
- 03 (Multi-Plex Field Transceiver, Radio)
- 04 (Data Accumulator)
- 05 (Master Clock Unit)
- 07 (Test Equipment)
- 08 (Equipment Cabinet, Type A)
- 09 (Equipment Cabinet, Type B)
- 10 (Equipment Cabinet, Type C)
- 11 (Equipment Cabinet, Type D)
- 13 (Pier Vibration Detection System-Sensors)
- 14 (Pier Vibration Detection System-Monitor/Controller)
- 16 (Remote Site-Radio)
- 17 (Citizen Band-Radio)
- 18 (Telemetry Transmitter)
- 19 (Telemetry Receiver)
- 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)
- 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)

## Notes

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0685106	SYSTEM AUXILIARIES, F&I, UNINTERRUPTIBLE POWER SOURCE	EA	T	1/1/2013	
0685120	SYSTEM AUXILIARIES, F&I, TELEMETRY TRANSCEIVER	EA	T	1/1/2013	
0685124	SYSTEM AUXILIARIES, F&I, UNIVERSAL ADAPTER	EA	T	1/1/2013	6/30/2015

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0685127	SYSTEM AUXILIARIES, FURNISH & INSTALL TELEPHONE CONNECTION BOX	EA	T	1/1/2013	
0685128	SYSTEM AUXILIARIES, FURNISH & INSTALL, INTERFACE PANEL	EA	T	1/1/2013	
0685140	SYSTEM AUXILIARIES, FURNISH & INSTALL FIBER OPTIC-MODULATOR/DEMULATOR	EA	T	1/1/2013	
0685143	SYSTEM AUXILIARIES, F&I, VIDEO MONITORS	EA	T	1/1/2013	6/30/2015
0685161	SYSTEM AUXILIARIES, F&I, MODEM	EA	T	7/1/2014	

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**686-ABB- CLOSED CIRCUIT TELEVISION EQUIPMENT**

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

**Notes**                      **Valid through 12-31-2014; replaced by Section 682 pay items.**

**Details**                      This pay item is for traffic control devices, including traffic signals and ITS devices.

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

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

**Plan Summary Box**                      Signalization: Tabulation of Quantities  
 Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      tabqsg: Signalization Tabulation of Quantity Sheet  
 Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**                      No additional form required; use plans summary or comp book  
 Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

**T: Plan Details and/or Technical Specifications required**

**TRNS\*PORT Category (DRAFT FIELD):** 0500                      Signalization (or ITS)

**Struct. 686-ABB- CLOSED CIRCUIT TELEVISION EQUIPMENT EA**

- A = Operation
- 1 (Furnish & Install)
- 3 (Install)
- BB = Item As Described
- 01 (Camera Assembly)
- 02 (Monitor)
- 03 (Recorder)
- 04 (Central Controls)
- 05 (Camera Support)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

**687- 1- AB HIGHWAY ADVISORY RADIO**

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

**Notes**

**Details**

For installation along the roadway for the purpose of broadcasting traffic advisories to vehicle radios. The HAR assembly installation consists of a radio antenna mounted on a pole, a control cabinet containing the transmitter, power supply, communication hardware, and conduit. The system includes a roadside HAR sign with flashing beacons to alert motorists that a message is being broadcast. Transmitter wattage, siting information, and installation details should be noted in the plans.

REMOVE: Includes the removal of the HAR system, and any related components, as detailed in the contract documents.

REPLACE: Intended for Maintenance Contracts only. Includes removal of existing item and replacement with new/refurbished item provided by the contractor. Contract documents should indicate whether existing item remains the property of the Department, or becomes the property of the Contractor.

REMOVE AND INSTALL: Intended for Maintenance Contracts only. Includes removal of existing item and replacement with new/refurbished item provided by the Department. Contract documents should indicate whether existing item remains the property of the Department, or becomes the property of the Contractor.

PREVENTATIVE MAINTENANCE: Intended for Maintenance Contracts only. Contract documents must indicate work to be completed.

DIAGNOSTIC AND MISC REPAIR: Intended for Maintenance Contracts only. Contract documents must indicate work to be completed.

**Related Items**

**Required**

**Recommended**

**Plan Summary Box**

Signalization: Tabulation of Quantities  
Summarize items by pay item and location.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqit: ITS Tabulation Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter** Vol 1, Chapter 7  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):** 0550

ITS or Signalization

**Struct. 687- 1- AB HIGHWAY ADVISORY RADIO EA**

A= Operation  
 1 (Furnish & Install) B=1 or 2  
 3 (Install) FDOT Furnished  
 4 (Relocate) B=1 or 2  
 5 (Adjust /Modify) B=0; details in plans  
 6 (Remove) B=0

AB MAINTENANCE FUNCTIONS:  
 70 (Remove and Install) Maintenance use only  
 75 (Replace) Maintenance use only  
 80 (Preventative Maintenance)  
 90 (Diagnostic and Miscellaneous Repair)

B= Power Type  
 1 (Solar)  
 2 (AC)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0687 1 12	HIGHWAY ADVISORY RADIO, FURNISH & INSTALL, AC POWERED	EA		1/1/2014	
0687 1 42	HIGHWAY ADVISORY RADIO, RELOCATE, AC POWERED	EA		1/1/2014	
0687 1 50	HIGHWAY ADVISORY RADIO, ADJUST/MODIFY, AC POWERED	EA	D	1/1/2014	
0687 1 60	HIGHWAY ADVISORY RADIO, REMOVE	EA		1/1/2014	

**690- 10- TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL**

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

**Notes**

**Valid through 12-31-14, Replaced by 650-1-60.**

**Details**

This pay item is for traffic signals and traffic control devices only. DO NOT use this item for Maintenance of Traffic (MOT) activities; refer to specifications section 102.

Per the specifications, the Department retains ownership of the equipment removed unless otherwise stated in the Contract Documents. The designer should indicate where materials are to be stockpiled, as needed.

For items being reused within the contract, consider "Relocate" item(s). DO NOT USE both "Remove" and "Relocate" pay items for the same signal equipment item. "Relocate" includes both the removal and new installation of the specified item.

**Related Items**

**Required**    **Recommended**

**Plan Summary Box**

Multiple: Multiple forms may be applicable. See details above.

Refer to BOE details for project application.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
 Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
 Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):** 0500    Signalization (or ITS)

**Struct. 690- 10- TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL EA**

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

**690- 20- SIGNAL PEDESTRIAN ASSEMBLY, REMOVE**

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

**Notes**

**Valid through 12-31-14, Replaced by 653-1-60.**

**Details**

This pay item is for traffic signals and traffic control devices only. DO NOT use this item for Maintenance of Traffic (MOT) activities; refer to specifications section 102.

Per the specifications, the Department retains ownership of the equipment removed unless otherwise stated in the Contract Documents. The designer should indicate where materials are to be stockpiled, as needed.

For items being reused within the contract, consider "Relocate" item(s). DO NOT USE both "Remove" and "Relocate" pay items for the same signal equipment item. "Relocate" includes both the removal and new installation of the specified item.

**Related Items**

**Required**    **Recommended**

**Plan Summary Box**

Multiple: Multiple forms may be applicable. See details above.  
 Refer to BOE details for project application.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
 Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
 Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):** 0500                      Signalization (or ITS)

**Struct. 690- 20- SIGNAL PEDESTRIAN ASSEMBLY, REMOVE EA**

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

**690- 31- SIGNAL PEDESTAL- REMOVE**

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

**Notes**                      **Valid through 12-31-14, Replaced by remove operation for item.**

**Details**                      This pay item is for traffic signals and traffic control devices only.

Per the specifications, the Department retains ownership of the equipment removed unless otherwise stated in the Contract Documents. The designer should indicate where materials are to be stockpiled, as needed.

For items being reused within the contract, consider "Relocate" item(s). DO NOT USE both "Remove" and "Relocate" pay items for the same signal equipment item. "Relocate" includes both the removal and new installation of the specified item.

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

**Plan Summary**                      Multiple: Multiple forms may be applicable. See details above.  
**Box**                                      Refer to BOE details for project application.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      tabqsg: Signalization Tabulation of Quantity Sheet  
 Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**                      No additional form required; use plans summary or comp book  
 Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):**    0500    Signalization (or ITS)

**Struct.**    **690- 31-    SIGNAL PEDESTAL- REMOVE    EA**

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

**690- 32- A POLE REMOVAL- SHALLOW**

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

**Notes**                      **Valid through 12-31-14, Replaced by remove operation for item.**

**Details**                      This pay item is for traffic signals and traffic control devices only. Separate items exist for "shallow" and "deep" pole removal, as defined in the specifications.  
 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.

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**

**Plan Summary**                      Multiple: Multiple forms may be applicable. See details above.  
**Box**                                      Refer to BOE details for project application.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      tabqsg: Signalization Tabulation of Quantity Sheet  
 Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**                      No additional form required; use plans summary or comp book  
 Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):**    0500    Signalization (or ITS)

**Struct.**    **690- 32- A**                                      **POLE REMOVAL- SHALLOW**    **EA**

A =  
 1 (Direct Burial)  
 2 (Bolt on Attachment)

**Notes**  
*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

**690- 34- A COMPLETE POLE REMOVAL- DEEP**

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

**Notes**                      **Valid through 12-31-14, Replaced by remove operation for item.**

**Details**                      This pay item is for traffic signals and traffic control devices only. Separate items exist for "shallow" and "deep" pole removal, as defined in the specifications.  
Deep: includes complete removal of the above ground portion of the pole and attachments, and the complete removal of the pole foundation. Refer to the specifications for additional information.

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**

**Plan Summary**                      Multiple: Multiple forms may be applicable. See details above.  
**Box**                                      Refer to BOE details for project application.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**                      No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):**    0500    Signalization (or ITS)

**Struct.**    **690- 34- A**                                      **COMPLETE POLE REMOVAL- DEEP**    **EA**

A = Pole Type  
blank (pole type not identified) valid through 6-30-11; use A= 1 or 2  
1 (Direct Burial)  
2 (Bolt on Attachment)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

**690- 50- A      CONTROLLER ASSEMBLY- REMOVE**

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

**Notes**                      **Valid through 12-31-14, Replaced by 670-5-600.**

**Details**                      This pay item is for traffic signals and traffic control devices only. DO NOT use this item for Maintenance of Traffic (MOT) activities; refer to specifications section 102.

Per the specifications, the Department retains ownership of the equipment removed unless otherwise stated in the Contract Documents. The designer should indicate where materials are to be stockpiled, as needed.

For items being reused within the contract, consider "Relocate" item(s). DO NOT USE both "Remove" and "Relocate" pay items for the same signal equipment item. "Relocate" includes both the removal and new installation of the specified item.

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

**Plan Summary**                      Multiple: Multiple forms may be applicable. See details above.

**Box**                                      Refer to BOE details for project application.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**                      No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):**    0500    Signalization (or ITS)

**Struct.**    **690- 50- A**                                      **CONTROLLER ASSEMBLY- REMOVE**                                      **EA**

A =  
'Blank' = Complete Assembly  
1 (Cabinet Assembly, Less Foundation)  
2 (Controller Unit)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*



**690- 70- DETECTOR PEDESTRIAN ASSEMBLY, REMOVE**

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

**Notes**

**Valid through 12-31-14, Replaced by 665-1-60.**

**Details**

This pay item is for traffic signals and traffic control devices only. DO NOT use this item for Maintenance of Traffic (MOT) activities; refer to specifications section 102.

Per the specifications, the Department retains ownership of the equipment removed unless otherwise stated in the Contract Documents. The designer should indicate where materials are to be stockpiled, as needed.

For items being reused within the contract, consider "Relocate" item(s). DO NOT USE both "Remove" and "Relocate" pay items for the same signal equipment item. "Relocate" includes both the removal and new installation of the specified item.

**Related Items**

**Required**    **Recommended**

**Plan Summary Box**

Multiple: Multiple forms may be applicable. See details above.

Refer to BOE details for project application.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**

No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**

**PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):** 0500    Signalization (or ITS)

**Struct. 690- 70- DETECTOR PEDESTRIAN ASSEMBLY, REMOVE EA**

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

**690- 80- SPAN WIRE ASSEMBLY REMOVE**

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

**Notes**                      **Valid through 12-31-14, Replaced by 634-4-600, or included with removal of pole(s).**

**Details**                      This pay item is for traffic signals and traffic control devices only. DO NOT use this item for Maintenance of Traffic (MOT) activities; refer to specifications section 102.

Per the specifications, the Department retains ownership of the equipment removed unless otherwise stated in the Contract Documents. The designer should indicate where materials are to be stockpiled, as needed.

For items being reused within the contract, consider "Relocate" item(s). DO NOT USE both "Remove" and "Relocate" pay items for the same signal equipment item. "Relocate" includes both the removal and new installation of the specified item.

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

**Plan Summary**                      Multiple: Multiple forms may be applicable. See details above.

**Box**                                      Refer to BOE details for project application.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**                      No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):**    0500    Signalization (or ITS)

**Struct.**    **690- 80-    SPAN WIRE ASSEMBLY REMOVE    EA**

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

**690- 90- REMOVE CONDUIT & CABLING**

**Unit** PI                      **Accuracy** Per Intersection                      **PlanQuantity?** no

**Notes**                      **Valid through 12-31-14, Replaced by 630-2-AB, or other cable item(s).**

**Details**                      This pay item is for traffic signals and traffic control devices only.

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

**Plan Summary**                      Multiple: Multiple forms may be applicable. See details above.

**Box**                                      Refer to BOE details for project application.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**                      tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**                      No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**                      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):** 0500                                      Signalization (or ITS)

**Struct.**    **690- 90-                                      REMOVE CONDUIT & CABLING                                      PI**

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

**690- 91- SIGNAL INTERCONNECT CABLE, REMOVE**

**Unit** LF; M1      **Accuracy** Linear Foot; 1/10 Meter      **PlanQuantity?** no

**Notes** **Valid through 12-31-14, Replaced by 632-7-A, or other cable item(s).**

**Details** This pay item is for traffic signals and traffic control devices only.

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

**Plan Summary** Multiple: Multiple forms may be applicable. See details above.

**Box** Refer to BOE details for project application.

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**      tabqsg: Signalization Tabulation of Quantity Sheet  
Locate in plans. Summarize quantities by location on summary sheet in the plans.

**Construction Forms and Documentation**      No additional form required; use plans summary or comp book  
Record final quantity on the tabulation sheet (plans) or computation form (comp book).

**References**      **PPM Chapter**  
**Trns-port**  
**Other**  
**Standards**  
**Specifications**

<http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks>

**TRNS\*PORT Category (DRAFT FIELD):**      0500      Signalization (or ITS)

**Struct.**      **690- 91-**      **SIGNAL INTERCONNECT CABLE, REMOVE**      **LF**

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*



**695- 1- A TMS Vehicle Axle Sensor, Non-Weight Applications (FOR TRANSPORTATION STATISTICS TRAFFIC MONITORING SITES ONLY)**

**Unit** EA                      **Accuracy** Each                      **PlanQuantity?**

**Notes**                      **Effective January 2016, with new Section 695 specifications. Replaces 741 through 749 pay items.**

**Details**                      **Show TMS in Roadway Plans; load 695 series pay items in Category 0200- Roadway.**

For Transportation Statistics Traffic Monitoring Site use only. Refer to Section 695 of the Specifications.

In-roadway axle sensor is a pressure sensing bar, about 1/4" in diameter, 6' to 10 in length. 1 sensor per lane is normally used. Refer to specifications and Index 17900 for details.

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

**Plan Summary Box**                      Summary of General Items

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter** Vol 1: 13.5.6  
Vol 2: 10.2.7- 13

**Trns-port**

**Other**

**Standards**                      Index No. 17900 (site) and 17841 (cabinet)

**Specifications**

**TRNS\*PORT Category (DRAFT FIELD):**    0200 or other    Roadway or other- see details

**Struct.**    **695- 1- A**    **TMS Vehicle Axle Sensor, Non-Weight Applications (FOR TRANSPORTATION STATISTICS TRAFFIC MONITORING SITES ONLY)**                      **EA**

A= Operation  
1 (Furnish & Install)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0695 1 1	TRAFFIC MONITORING SITE VEHICLE SENSOR-NON-WEIGHT, FURNISH & INSTALL	EA		1/1/2016	



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Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0695 2 1	TRAFFIC MONITORING SITE NON- INTRUSIVE VEHICLE SENSOR- NON- WEIGHT, FURNISH & INSTALL	EA		1/1/2016	

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**695- 3- AB TMS Vehicle Spec/Classification Unit (FOR TRANSPORTATION STATISTICS TRAFFIC MONITORING SITES ONLY)**

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

**Notes** **Effective January 2016, with new Section 695 specifications. Replaces 741 through 749 pay items.**

**Details** **Show TMS in Roadway Plans; load 695 series pay items in Category 0200- Roadway.**

For Transportation Statistics Traffic Monitoring Site use only. Refer to Section 695 of the Specifications.

The speed/classification unit receives information from the sensors, and outputs data compatible with the Department's polling computer system.

The "per assembly" payment includes the speed/classification unit and incidentals for a complete site. The speed/classification unit may be composed of separate modules; no separate payment is made for the individual modules.

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

**Plan Summary Box** Summary of General Items

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References** **PPM Chapter** Vol 1: 13.5.6  
Vol 2: 10.2.7- 13  
**Trns-port**  
**Other**  
**Standards** Index No. 17900 (site) and 17841 (cabinet)  
**Specifications**

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

**Struct.** 695- 3- AB **TMS Vehicle Spec/Classification Unit (FOR TRANSPORTATION STATISTICS TRAFFIC MONITORING SITES ONLY)** **AS**

A= Operation  
1 (Furnish & Install)  
B= Type  
1 (Volume, Speed, and Classification)  
2 (Volume and Speed only)

**Notes**

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*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0695 3 11	TRAFFIC MONITORING SITE SPEED/CLASSIFICATION UNIT, FURNISH & INSTALL, VOLUME SPEED AND CLASSIFICATION	EA		1/1/2016	
0695 3 12	TRAFFIC MONITORING SITE SPEED/CLASSIFICATION UNIT, FURNISH & INSTALL, VOLUME AND SPEED ONLY	EA		1/1/2016	

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*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0695 4 1	TRAFFIC MONITORING SITE WIRELESS MAGNETOMETER SENSOR FURNISH & INSTALL	EA		1/1/2016	

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**695- 5- A TMS Solar Power Unit (FOR TRANSPORTATION STATISTICS TRAFFIC MONITORING SITES ONLY)**

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

**Notes**                      **Effective January 2016, with new Section 695 specifications. Replaces 741 through 749 pay items.**

**Details**                      **Show TMS in Roadway Plans; load 695 series pay items in Category 0200- Roadway.**

For Transportation Statistics Traffic Monitoring Site use only. Refer to Section 695 of the Specifications.

Solar Power Unit includes the panel(s), mounting hardware, battery, and incidentals. 20' Aluminum pole is paid separately under Section 646.

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

**Plan Summary Box**                      Summary of General Items

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter** Vol 1: 13.5.6  
Vol 2: 10.2.7- 13

**Trns-port Other Standards Specifications**                      Index No. 17900 (site) and 17841 (cabinet)

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

**Struct.** 695- 5- A                      **TMS Solar Power Unit (FOR TRANSPORTATION STATISTICS TRAFFIC MONITORING SITES ONLY)**                      **EA**

A= Operation  
1 (Furnish & Install)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0695 5 1	TRAFFIC MONITORING SITE SOLAR POWER UNIT, FURNISH & INSTALL	EA		1/1/2016	

**695- 6- AB TMS Inductive Loop Assembly (FOR TRANSPORTATION STATISTICS TRAFFIC MONITORING SITES ONLY)**

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

**Notes**                      **Effective January 2016, with new Section 695 specifications. Replaces 741 through 749 pay items.**

**Details**                      **Show TMS in Roadway Plans; load 695 series pay items in Category 0200- Roadway.**

For Transportation Statistics Traffic Monitoring Site use only. Refer to Section 695 of the Specifications.

In-roadway loops are similar to traffic signal loops, but MUST be installed to TMS specifications to work properly.

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

**Plan Summary Box**                      Summary of General Items

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter** Vol 1: 13.5.6  
Vol 2: 10.2.7- 13

**Trns-port Other Standards Specifications**                      Index No. 17900 (site) and 17841 (cabinet)

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

**Struct.**    **695- 6- AB**                      **TMS Inductive Loop Assembly (FOR TRANSPORTATION STATISTICS TRAFFIC MONITORING SITES ONLY)**                      **EA**

A= Operation  
1 (Furnish & Install)  
B= # of loops per assembly  
2 (2 loops)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0695 6 12	TRAFFIC MONOTORING SITE INDUCTIVE LOOP ASSEMBLY, FURNISH & INSTALL, 2 LOOPS	EA		1/1/2016	





2 (Pedestal)  
3 (Pole)

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0695 7132	TRAFFIC MONITORING SITE CABINET, FURNISH & INSTALL, TYPE 3, PEDESTAL MOUNT	EA		1/1/2016	
0695 7141	TRAFFIC MONITORING SITE CABINET, FURNISH & INSTALL, TYPE 4, BASE MOUNT	EA		1/1/2016	
0695 7600	TRAFFIC MONITORING SITE CABINET, REMOVE EXISTING CABINET	EA		1/1/2016	

**695- 8- AB TMS System Comminucations Modem (FOR TRANSPORTATION STATISTICS TRAFFIC MONITORING SITES ONLY)**

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

**Notes**                      **Effective January 2016, with new Section 695 specifications. Replaces 741 through 749 pay items.**

**Details**                      **Show TMS in Roadway Plans; load 695 series pay items in Category 0200- Roadway.**

For Transportation Statistics Traffic Monitoring Site use only. Refer to Section 695 of the Specifications.

Most projects will require modem with antenna.

Contact the State Transportation Statistics Office for guidance/approval if modem "without antenna" is needed.

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

**Plan Summary Box**                      Summary of General Items

*NOTE: Design Forms and Construction forms below are associated with Comp Book Projects. Refer to Chapter 8 for details.*

**Design Forms and Documentation**

**Construction Forms and Documentation**

**References**                      **PPM Chapter** Vol 1: 13.5.6  
Vol 2: 10.2.7- 13

**Trns-port**

**Other**

**Standards**                      Index No. 17900 (site) and 17841 (cabinet)

**Specifications**

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

**Struct.**    **695- 8- AB**    **TMS System Comminucations Modem (FOR TRANSPORTATION STATISTICS TRAFFIC MONITORING SITES ONLY)**    **EA**

A= Operation  
1 (Furnish & Install)

B= Type  
1 (Includes antenna)  
0 (without antenna) requires approval

**Notes**

*The following items were open, as of the publication date. Refer to the Master Pay Item list for current items. Additional items may be opened upon request.*

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Item	Description	Unit	TSP/Detail	Valid Date	Obsolete Date
0695 8 11	TRAFFIC MONITORING SITE COMMUNICATIONS MODEM FURNISH & INSTALL	EA		1/1/2016	

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