



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
800 BAY ROAD
P.O. BOX 778
DOVER, DELAWARE 19903

JENNIFER COHAN
SECRETARY

VIA OVERNIGHT DELIVERY

August 9, 2018

Contract No. DOT1801.01
Traffic Signals and ITS
Statewide

Ladies and Gentlemen:

Enclosed is Addendum No. 4 for the referenced contract consisting of the following:

1. The Bid Proposal Cover, revised, to be substituted for the same page in the Proposal.
2. Three (3) pages, Table of Contents, pages iv, vii and viii, revised, to be substituted for the same pages in the Proposal.
3. Two (2) pages, Special Provisions 808500, 844504, 844505, 844506, 844507, 844508 and 844509, page 46 has been revised and page 97, has been deleted from the Proposal.
4. Two (2) pages, Special Provisions 844520, 844521, 844522, 844523, 844524, 844525, 844526, 844527, 844528 and 844529, page 96A and 96B, have been added to the Proposal.
5. All 35 Bid Pages have been revised.
6. The following Plan Sheets have been added: 837.001-01, 837.001-02, 837.002-01, 837.003-01 and 837.003-02.
7. Expedite File Disc, Amendments No. 1.

Please note the revisions listed above and submit your bid based upon this information.

Sincerely,

~signature on file~

Robert A. Kovacs
Competitively Bid Contracts Coordinator
Delaware Department of Transportation

STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION

BID PROPOSAL

for

CONTRACT DOT1801.01

FEDERAL AID PROJECT NO. Various

Traffic Signals and ITS

Statewide

ADVERTISEMENT DATE: June 25, 2018

COMPLETION TIME: 1,095 Calendar Days

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
DELAWARE DEPARTMENT OF TRANSPORTATION
AUGUST 2016

Bids will be received in the Bidder's Room at the Delaware Department of Transportation's Administration Building, 800 Bay Road, Dover, Delaware prior to 2:00 P.M. local time ~~July 24 31~~, **August 7 21, 2018**

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~~808500 - FURNISH AND INSTALL STRAIGHT BOOM LIFT, UP TO 80', 4WD (HOURLY)~~
808501 - FURNISH AND INSTALL STRAIGHT BOOM LIFT, UP TO 80', 4WD (DAILY)

Description:

The contractor shall supply a straight boom lift, up to 80', with 360° platform rotation for easy boom positioning and self-leveling platform. Booms can be raised, lowered, and extended horizontally while the work platform remains stable and straight. The lift shall maneuver and steer in any direction, even while the platform is extended. A 4WD model is required for all Department tasks and site conditions. Hydrostatic drive, positive traction, oscillation axles and proportional controls shall be provided. The contractor may use lifts equipped with 6' articulating jib extensions or rotating jib models.

Other requirements are as follows:

- Axle-based 4WD for terrain mobility
- Analog-based control system
- Directional-sensing drive-and-steer
- All operators shall be CDL Approved

Method of Measurement:

Straight boom lifts will be measured as the actual number of lifts units used per hour or per day. An hourly rate consists of a usage of time (mobilized on site and operational) within 1 hour to 6 hours. A day consists of any approved usage within 6 to 24 hours of time (mobilized on site and operational). Each lift will be measured only once per task (hourly or daily), regardless of how many times it is relocated to complete a task.

The plastic drums required for this item will be measured as the actual number of plastic drums acceptably furnished, installed and maintained each day under the appropriate contract item.

The Department shall not compensate contractor for down-time due to mechanical failure or replacement of lift to complete task.

Basis of Payment:

Price and payment constitutes full compensation for mobilization, completing task, maintaining in a safe manner, and demobilization at the contract unit price each hour or each day and for all labor, tools, equipment and necessary incidentals to complete the work.

3/09/2018

844504 - FURNISH AND INSTALL MICROWAVE DETECTION DEVICE
844505 - FURNISH AND INSTALL VIDEO DETECTION DEVICE
844506 - FURNISH AND INSTALL THERMAL DETECTION DEVICE
844507 - FURNISH VIDEO DETECTION DEVICE
844508 - FURNISH THERMAL DETECTION DEVICE
844509 - FURNISH MICROWAVE DETECTION DEVICE

Description:

This work consists of furnishing and installing the specified microwave, thermal or video detection device on an existing pole mast arm or other rigid support in accordance with the locations, notes, and details on the Plans and as directed by the Engineer. This work consists of furnishing the specified microwave, thermal or video detection device to the Departments Traffic Section.

Materials:

Unless specified otherwise, the microwave, thermal or video detection device, and all necessary hardware shall be furnished by the Department. These materials can be obtained from the Department's Dover Sign Shop. The Contractor shall inform the Department two working days prior to picking up the microwave or video detection device, and other related hardware. Where the detection device installation is part of the work of relocating an existing microwave, thermal or video detection device on a project, the detection device and related hardware shall be that which is removed from the existing rigid support.

Construction Methods:

The microwave or video detection device shall be installed in accordance with manufacturer's specifications or as directed by the engineer.

Method of Measurement:

The quantity of microwave or video detection devices will be measured as the number of microwave, thermal or video detection devices furnished and/or installed in accordance with the specifications, complete, in place, tested, and accepted.

Basis of Payment:

The quantity of microwave, thermal or video detection devices will be paid for at the Contract unit price per each microwave, thermal or video detection device. Price and payment shall constitute full compensation for furnishing or furnishing and installing the detection device, including hardware, labor, tools, equipment, and all other incidentals necessary to complete the item.

4/24/2018

- 844520 - INSTALL MICROWAVE DETECTION DEVICE
- 844521 - INSTALL VIDEO DETECTION DEVICE
- 844522 - INSTALL THERMAL DETECTION DEVICE
- 844523 - INSTALL ROADWAY WEATHER INFORMATION SYSTEM (RWIS)
- 844524 - INSTALL WEIGH-IN-MOTION SYSTEM (WIMS)
- 844525 - RELOCATE MICROWAVE DETECTION DEVICE
- 844526 - RELOCATE VIDEO DETECTION DEVICE
- 844527 - RELOCATE THERMAL DETECTION DEVICE
- 844528 - RELOCATE ROADWAY WEATHER INFORMATION SYSTEM (RWIS)
- 844529 - RELOCATE WEIGH-IN-MOTION SYSTEM (WIMS)

Description:

844520, 844521, 844522, 844523 and 844524 - This work consists of installing the specified microwave detection device, video detection device, thermal detection device, RWIS or WIMS on an existing pole mast arm or other rigid support as applicable, including on average, 500 feet of homerun cable from the device to the traffic signal cabinet in accordance with the locations, notes, and details on the Plans and/or as directed by the Engineer. All connections to equipment within the signal cabinet will be undertaken by DelDOT forces.

844525, 844526, 844527, 844528 and 844529 - This work consists of carefully removing to avoid any damage, the specified existing microwave detection device, video detection device, thermal detection device, RWIS or WIMS from its current location on a project, and installing the removed microwave detection device, video detection device, thermal detection device, RWIS or WIMS on an existing pole mast arm or other rigid support as applicable, including on average 500 feet of homerun cable from the device to the traffic signal cabinet at another location on the same project in accordance with the locations, notes, and details on the Plans and/or as directed by the Engineer. All connections to equipment within the signal cabinet will be undertaken by DelDOT forces. At the direction of the DelDOT Inspector or Engineer, these items may also include the complete removal without damage to the devices and delivery to the DelDOT Sign Shop in Dover, Delaware.

Materials:

Unless specified otherwise, the microwave, thermal or video detection devices, the RWIS and WIMS components with their applicable cables, all necessary hardware, including mounting hardware where applicable, shall be furnished by the Department. These materials can be obtained from the Department's Sign Shop in Dover. The Contractor shall inform the Department two working days prior to picking up the microwave detection device, video detection device, thermal detection device, RWIS and WIMS components and all related hardware. Unless specified otherwise, where the detection device, RWIS or WIMS installation is part of the work of relocating an existing microwave detection device, video detection device, thermal detection device, RWIS or WIMS on a project, the detection device, RWIS components, WIMS components, and related hardware shall be those which are removed from the existing location.

Construction Methods:

The microwave detection device, video detection device, thermal detection device, RWIS and WIMS shall be installed in accordance with manufacturer's specifications and/or as directed by the engineer.

Method of Measurement:

844520, 844521, 844522, 844523 and 844524 - The quantity of microwave detection devices, video detection devices, thermal detection devices, RWIS or WIMS will be measured as the number of video detection devices, thermal detection devices, RWIS or WIMS installed at specified locations in accordance with the specifications and/or as directed by the engineer, complete, in place, tested, and accepted.

844525, 844526, 844527, 844528 and 844529 - The quantity of microwave detection devices, video detection devices, thermal detection devices, RWIS or WIMS will be measured as the number of video detection devices, thermal detection devices, RWIS or WIMS removed without damage and installed at specified locations (or returned to the DelDOT Sign Shop) in accordance with the specifications and/or as directed by the engineer, complete, in place, tested, and accepted.

Basis of Payment:

844520, 844521, 844522, 844523 and 844524 - The quantity of microwave detection devices, video detection devices, thermal detection devices, RWIS or WIMS will be paid for at the Contract unit price per each microwave detection device, video detection device, thermal detection device, RWIS or WIMS. Price and payment shall constitute full compensation for picking up all devices and components from the Department's Dover Sign Shop, installing the detection device/system, including hardware, labor, tools, equipment, and all other incidentals necessary to complete the item.

Unless specified otherwise, any miscellaneous electrical cables, junction wells, conduits and like materials not included with the materials and components furnished by the Department, but which become necessary to complete the item will be paid for under separate items under this contract.

844525, 844526, 844527, 844528 and 844529 - The quantity of microwave detection devices, video detection devices, thermal detection devices, RWIS or WIMS will be paid for at the Contract unit price per each microwave detection device, video detection device, thermal detection device, RWIS or WIMS. Price and payment shall constitute full compensation for removal without damage to microwave detection device, video detection device, thermal detection device, RWIS or WIMS and installing the detection device/system, including hardware, labor, tools, equipment, and all other incidentals necessary to complete the item, or returning the item to the DelDOT Sign Shop. Moving the removed devices/components to the new location on the same project, and if required, storing the removed devices/components if necessary, for future installation on the same project shall be incidental to the price of the item.

Unless specified otherwise, the contractor shall supply and install new electrical cables to replace any cables deemed unsalvageable by the inspector or his/her representative from the existing devices/systems. Any such replacement will be paid for under separate items under this contract.

8/1/2018

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

PAGE: 1
DATE:

CONTRACT ID: DOT1801.01 PROJECT(S): DOT1801

All figures must be typewritten.

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE DOLLARS CTS	BID AMOUNT DOLLARS CTS
SECTION 0001 TRAFFIC SIGNAL ITS				
0010	209005 FURNISHING BORROW, TYPE C FOR PIPE AND UTILITY TRENCH BACKFILL	35.000 CY		
0020	211001 REMOVAL OF PORTLAND CEMENT CONCRETE PAVEMENT, CURB AND SIDEWALK	50.000 SY		
0030	301001 GRADED AGGREGATE BASE COURSE, TYPE B	75.000 CY		
0040	301002 GRADED AGGREGATE BASE COURSE, TYPE B, PATCHING	100.000 CY		
0050	401026 BITUMINOUS CONCRETE, SUPERPAVE TYPE C, 160 GYRATIONS PG 64-22 PATCHING	50.000 TON		
0060	401027 BITUMINOUS CONCRETE, SUPERPAVE TYPE B, 160 GYRATIONS PG 64-22 PATCHING	75.000 TON		
0070	401028 BITUMINOUS CONCRETE, SUPERPAVE BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS PG 64-22 PATCHING	125.000 TON		
0080	503001 PATCHING PORTLAND CEMENT CONCRETE PAVEMENT, 6' TO 15', TYPE A	85.000 SY		

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

PAGE: 2
DATE:

CONTRACT ID: DOT1801.01 PROJECT(S): DOT1801

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0090	503002 PATCHING PORTLAND CEMENT CONCRET PAVEMENT, 15' TO 100', TYPE B	50.000 SY				
0100	503006 DOWEL BARS	140.000 EACH				
0110	701011 PORTLAND CEMENT CONCRETE CURB, TYPE 1-4	85.000 LF				
0120	701013 PORTLAND CEMENT CONCRETE CURB, TYPE 1-8	340.000 LF				
0130	701014 PORTLAND CEMENT CONCRETE CURB, TYPE 2	1250.000 LF				
0140	701018 INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1-8	85.000 LF				
0150	701019 INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 2	35.000 LF				
0160	701022 INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-6	85.000 LF				
0170	701023 INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8	85.000 LF				
0180	702000 TRIANGULAR CHANNELIZING ISLANDS	2000.000 SF				

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

PAGE: 3
DATE:

CONTRACT ID: DOT1801.01

PROJECT(S): DOT1801

All figures must be typewritten.

CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0190	705001 PORTLAND CEMENT CONCRETE SIDEWALK, 4"	2300.000 SF				
0200	705002 PORTLAND CEMENT CONCRETE SIDEWALK, 6"	1450.000 SF				
0210	705007 SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	700.000 SF				
0220	705008 CURB RAMP, TYPE 1	700.000 SF				
0230	705009 CURB RAMP, TYPE 2, 3, AND/OR 4	2500.000 SF				
0240	705010 CURB RAMP, TYPE 5	2000.000 SF				
0250	762000 SAW CUTTING, BITUMINOUS CONCRETE	2000.000 LF				
0260	762001 SAW CUTTING, CONCRETE, FULL DEPTH	340.000 LF				
0270	763503 TRAINEE	1080.000 HOUR		0.80000		864.00
0280	763655 PERFORMANCE AND PAYMENT BOND, OPEN-END SIGNAL CONTRACT	LUMP	LUMP			10000.00

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

PAGE: 4
DATE:

CONTRACT ID: DOT1801.01 PROJECT(S): DOT1801

All figures must be typewritten.

CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0290	802003 ARROW PANELS TYPE C	200.000				
	EADY					
0300	803001 FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	280.000				
	EADY					
0310	804001 FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY (FLOOD LIGHTS)	100.000				
	EADY					
0320	805001 PLASTIC DRUMS	6000.000				
	EADY					
0330	806001 TRAFFIC OFFICERS	800.000	75.00000		60000.00	
	HOUR					
0340	808002 FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	200.000				
	EADY					
0350	808501 FURNISH AND MAINTAIN STRAIGHT BOOM LIFT, UP TO 80', 4WD (DAILY)	100.000				
	EADY					
0360	810001 TEMPORARY WARNING SIGNS AND PLAQUES	1600.000				
	EADY					
0370	811001 FLAGGER, NEW CASTLE COUNTY STATE	500.000				
	HOUR					
0380	811002 FLAGGER, KENT COUNTY, STATE	170.000				
	HOUR					

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			DOLLARS	CTS	DOLLARS	CTS
0390	811003 FLAGGER, SUSSEX COUNTY, STATE	340.000 HOUR				
0400	811013 FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	50.000 HOUR				
0410	811014 FLAGGER, KENT COUNTY, STATE, OVERTIME	17.000 HOUR				
0420	811015 FLAGGER, SUSSEX COUNTY, STATE, OVERTIME	35.000 HOUR				
0430	813001 TEMPORARY BARRICADES, TYPE III	2400.000 LFDY				
0440	813501 TEMPORARY SIDEWALK, TYPE 2 (BOARDWALK)	250.000 LF				
0450	813502 RELOCATE TEMPORARY SIDEWALK - TYPE 2	500.000 LF				
0460	813503 TEMPORARY PEDESTRIAN PATHWAY	200.000 SY				
0470	817002 PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	1500.000 SF				
0480	817003 TEMPORARY MARKINGS, PAINT, 4"	170.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
0490	817004 TEMPORARY MARKINGS, PAINT, SYMBOL/LEGEND	 840.000 SF				
0500	817005 PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"	 840.000 LF				
0510	817006 PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	 700.000 LF				
0520	817007 RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 12"	 70.000 LF				
0530	817008 BLACKOUT TAPE, 6"	 35.000 LF				
0540	817009 TEMPORARY MARKINGS, TAPE, 4"	 170.000 LF				
0550	817010 TEMPORARY MARKINGS, TAPE, WORDS/SYMBOLS	 840.000 SF				
0560	817011 BLACKOUT TAPE, 8"	 35.000 LF				
0570	817012 RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, SYMBOL/LEGEND	 1350.000 SF				

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			DOLLARS	CTS	DOLLARS	CTS
0580	817013 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	20000.000 LF				
0590	817014 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	4000.000 LF				
0600	817018 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 3"	2500.000 LF				
0610	817019 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 5"	5000.000 LF				
0620	817020 RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 5"	170.000 LF				
0630	817021 RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 10"	2500.000 LF				
0640	817022 RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 8"	340.000 LF				
0650	817023 RETROREFLECTIVE PREFORMED PATTERNED MARKINGS, 13"	120.000 LF				
0660	817024 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, BLACK, 9"	2500.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
0670	817026 PAINTING OF WHITE OR YELLOW, 5" LINE	5000.000 LF				
0680	817027 RAISED/RECESSED PAVEMENT MARKER	500.000 EACH				
0690	817029 REMOVAL OF RAISED/RECESSED PAVEMENT MARKER LENS	425.000 EACH				
0700	817030 REMOVAL OF RAISED/RECESSED PAVEMENT MARKER HOUSING	425.000 EACH				
0710	817031 REMOVAL OF PAVEMENT STRIPING	1700.000 SF				
0720	817033 TEMPORARY MARKINGS, TAPE, 6"	6000.000 LF				
0730	817571 RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, BIKE SYMBOL POURED IN PLACE USING TEMPLATE	7.000 EACH				
0740	817572 RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, PEDESTRIAN SYMBOL POURED IN PLACE USING TEMPLATE	2.000 EACH				
0750	817573 RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS, HANDICAP SYMBOL, POURED IN PLACE USING TEMPLATE	3.000 EACH				

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			DOLLARS	CTS	DOLLARS	CTS
0760	819500 FURNISH AND INSTALL ROAD SIGN ON SINGLE POST	 50.000 EACH				
0770	819501 FURNISH AND INSTALL ROAD SIGN ON MULTIPLE POSTS	 650.000 SF				
0780	820018 REMOVAL OF BREAKAWAY I-BEAM SIGN POSTS	 6.000 EACH				
0790	820020 REMOVE SIGN PANEL ON BREAKAWAY I-BEAM SIGN SUPPORT	 5.000 SF				
0800	822002 INSTALLLATION OF SIGN ON/OVER HIGHWAY STRUCTURE	 300.000 SF				
0810	822009 REMOVAL OF SIGN ON/OVER HIGHWAY STRUCTURE	 200.000 SF				
0820	822500 INSTALL OVERHEAD SIGN	 50.000 SF				
0830	823001 INSTALLATION OF SIGN ON SPAN WIRE OR MAST ARM	 40.000 SF				
0840	823003 REMOVAL OF SIGN ON SPAN WIRE OR MAST ARM	 30.000 EACH				
0850	825001 TUBULAR MARKERS	 250.000 EACH				

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			DOLLARS	CTS	DOLLARS	CTS
0860	830001 CONDUIT JUNCTION WELL, TYPE 1, 20" X 20" PRECAST CONCRETE	 250.000 EACH				
0870	830002 CONDUIT JUNCTION WELL, TYPE 4, 20" X 42-1/2" PRECAST CONCRETE	 50.000 EACH				
0880	830003 CONDUIT JUNCTION WELL, TYPE 5, 24" X 16" PRECAST CONCRETE	 14.000 EACH				
0890	830004 CONDUIT JUNCTION WELL, TYPE 7, 36" X 60" PRECAST POLYMER CONCRETE	 10.000 EACH				
0900	830008 ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	 40.000 EACH				
0910	830009 RELOCATION OF EXISTING JUNCTION WELL	 20.000 EACH				
0920	830010 REMOVAL OF EXISTING JUNCTION WELL	 20.000 EACH				
0930	830011 FURNISH AND INSTALL FRAME AND LID FOR JUNCTION WELL, TYPE 1	 7.000 EACH				
0940	830012 FURNISH AND INSTALL FRAME AND LID FOR JUNCTION WELL, TYPE 4	 4.000 EACH				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0950	830013 FURNISH AND INSTALL FRAME AND LID FOR JUNCTION WELL, TYPE 5	2.000 EACH				
0960	830015 FURNISH AND INSTALL PRECAST POLYMER COVER FOR JUNCTION WELL, TYPE 7	4.000 EACH				
0970	831011 REMOVAL OF CONDUIT FROM WOOD POLE	200.000 LF				
0980	831500 FURNISH AND INSTALL UP TO 6" SCHEDULE 80 PVC CONDUIT (OPEN CUT)	700.000 LF				
0990	831501 FURNISH AND INSTALL 4" SCHEDULE 80 PVC CONDUIT (OPEN CUT)	800.000 LF				
1000	831502 FURNISH AND INSTALL 3" SCHEDULE 80 PVC CONDUIT (OPEN CUT)	500.000 LF				
1010	831503 FURNISH AND INSTALL 2-1/2" SCHEDULE 80 PVC CONDUIT (OPEN CUT)	300.000 LF				
1020	831504 FURNISH AND INSTALL 2" SCHEDULE 80 PVC CONDUIT (OPEN CUT)	250.000 LF				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1030	831505 FURNISH AND INSTALL 1" SCHEDULE 80 PVC CONDUIT (OPEN CUT)	 200.000 LF				
1040	831512 FURNISH AND INSTALL 1" SCHEDULE 80 PVC CONDUIT (TRENCH)	 200.000 LF				
1050	831513 FURNISH AND INSTALL 2" SCHEDULE 80 PVC CONDUIT (TRENCH)	 500.000 LF				
1060	831514 FURNISH AND INSTALL 2-1/2" SCHEDULE 80 PVC CONDUIT (TRENCH)	 3000.000 LF				
1070	831515 FURNISH AND INSTALL 3" SCHEDULE 80 PVC CONDUIT (TRENCH)	 1800.000 LF				
1080	831516 FURNISH AND INSTALL 4" SCHEDULE 80 PVC CONDUIT (TRENCH)	 1500.000 LF				
1090	831517 FURNISH AND INSTALL 1" SCHEDULE 80 PVC CONDUIT (ON STRUCTURE)	 300.000 LF				
1100	831518 FURNISH AND INSTALL 2" SCHEDULE 80 PVC CONDUIT (ON STRUCTURE)	 400.000 LF				
1110	831519 FURNISH AND INSTALL 2-1/2" SCHEDULE 80 PVC CONDUIT (ON STRUCTURE)	 450.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
1120	831520 FURNISH AND INSTALL 3" SCHEDULE 80 PVC CONDUIT (ON STRUCTURE)	1000.000 LF				
1130	831521 FURNISH AND INSTALL 4" SCHEDULE 80 PVC CONDUIT (ON STRUCTURE)	1200.000 LF				
1140	831522 FURNISH AND INSTALL 1" GALVANIZED STEEL CONDUIT (TRENCH)	200.000 LF				
1150	831523 FURNISH AND INSTALL 2" GALVANIZED CONDUIT (TRENCH)	500.000 LF				
1160	831524 FURNISH AND INSTALL 2-1/2" GALVANIZED STEEL CONDUIT (TRENCH)	3000.000 LF				
1170	831525 FURNISH AND INSTALL 3" GALVANIZED STEEL CONDUIT (TRENCH)	1800.000 LF				
1180	831526 FURNISH AND INSTALL 4" GALVANIZED STEEL CONDUIT (TRENCH)	1500.000 LF				
1190	831527 FURNISH AND INSTALL 1" GALVANIZED STEEL CONDUIT (BORE)	100.000 LF				
1200	831528 FURNISH AND INSTALL 2" GALVANIZED STEEL CONDUIT (BORE)	250.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
1210	831529 FURNISH AND INSTALL 2-1/2" GALVANIZED STEEL CONDUIT (BORE)	LF 350.000				
1220	831530 FURNISH AND INSTALL 3" GALVANIZED STEEL CONDUIT (BORE)	LF 500.000				
1230	831531 FURNISH AND INSTALL 4" GALVANIZED STEEL CONDUIT (BORE)	LF 750.000				
1240	831532 FURNISH AND INSTALL 1" GALVANIZED STEEL CONDUIT (OPEN CUT)	LF 200.000				
1250	831533 FURNISH AND INSTALL 2" GALVANIZED STEEL CONDUIT (OPEN CUT)	LF 300.000				
1260	831534 FURNISH AND INSTALL 2-1/2" GALVANIZED STEEL CONDUIT (OPEN CUT)	LF 400.000				
1270	831535 FURNISH AND INSTALL 3" GALVANIZED STEEL CONDUIT (OPEN CUT)	LF 1000.000				
1280	831536 FURNISH AND INSTALL 4" GALVANIZED STEEL CONDUIT (OPEN CUT)	LF 1500.000				
1290	831537 FURNISH AND INSTALL 1" GALVANIZED STEEL CONDUIT (ON STRUCTURE)	LF 300.000				

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			DOLLARS	CTS	DOLLARS	CTS
1300	831538 FURNISH AND INSTALL 2" GALVANIZED STEEL CONDUIT (ON STRUCTURE)	400.000 LF				
1310	831539 FURNISH AND INSTALL 2-1/2" GALVANIZED STEEL CONDUIT (ON STRUCTURE)	450.000 LF				
1320	831540 FURNISH AND INSTALL 3" GALVANIZED STEEL CONDUIT (ON STRUCTURE)	1000.000 LF				
1330	831541 FURNISH AND INSTALL 4" GALVANIZED STEEL CONDUIT (ON STRUCTURE)	1200.000 LF				
1340	831542 FURNISH AND INSTALL 2" HDPE SDR-13.5 CONDUIT (BORE)	1000.000 LF				
1350	831543 FURNISH AND INSTALL 2-1/2" HDPE SDR-13.5 CONDUIT (BORE)	500.000 LF				
1360	831544 FURNISH AND IN STALL 3" HDPE SDR-13.5 CONDUIT (BORE)	1500.000 LF				
1370	831545 FURNISH AND INSTALL 4" HDPE SDR-13.5 CONDUIT (BORE)	3000.000 LF				
1380	831560 FURNISH AND INSTALL 1-1/2" SCHEDULE 80 PVC CONDUIT (OPEN CUT)	200.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
1390	831561 FURNISH AND INSTALL 1-1/2" SCHEDULE 80 PVC CONDUIT (TRENCH)	300.000 LF				
1400	831562 FURNISH AND INSTALL 1-1/2" SCHEDULE 80 PVC CONDUIT (ON STRUCTURE)	350.000 LF				
1410	831563 FURNISH AND INSTALL 1-1/2" GALVANIZED STEEL CONDUIT (OPEN CUT)	200.000 LF				
1420	831564 FURNISH AND INSTALL 1-1/2" GALVANIZED STEEL CONDUIT (TRENCH)	300.000 LF				
1430	831565 FURNISH AND INSTALL 1-1/2" GALVANIZED STEEL CONDUIT (BORE)	200.000 LF				
1440	831566 FURNISH AND INSTALL 1-1/2" GALVANIZED STEEL CONDUIT (ON STRUCTURE)	300.000 LF				
1450	831569 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 1" SCHEDULE 80 PVC CONDUITS IN TRENCH OR OPEN CUT	100.000 LF				
1460	831570 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 1-1/2" SCHEDULE 80 PVC CONDUITS IN TRENCH OR OPEN CUT	150.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
1470	831571 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 2" LF SCHEDULE 80 PVC CONDUITS IN TRENCH OR OPEN CUT	200.000				
1480	831572 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL LF 2-1/2" SCHEDULE 80 PVC CONDUITS IN TRENCH OR OPEN CUT	300.000				
1490	831573 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 3" LF SCHEDULE 80 PVC CONDUITS IN TRENCH OR OPEN CUT	500.000				
1500	831574 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 4" LF SCHEDULE 80 PVC CONDUIT IN TRENCH OR OPEN CUT	1000.000				
1510	831575 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 2" LF HDPE SDR-13.5 CONDUIT IN DIRECTIONAL BORE	500.000				
1520	831576 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL LF 2-1/2" HDPE SDR-13.5 CONDUIT IN DIRECTIONAL BORE	500.000				

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			DOLLARS	CTS	DOLLARS	CTS
1530	831577 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 3" LF HDPE SDR-13.5 CONDUIT IN DIRECTIONAL BORE	500.000				
1540	831578 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 4" LF HDPE SDR-13.5 CONDUIT IN DIRECTIONAL BORE	1000.000				
1550	831579 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 1" LF GALVANIZED STEEL CONDUIT IN TRENCH OR OEPN CUT	100.000				
1560	831580 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITONAL LF 1-1/2" GALVANIZED STEEL CONDUIT IN TRENCH OR OPEN CUT	100.000				
1570	831581 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 2" LF GALVANIZED STEEL CONDUIT IN TRENCH OR OPEN CUT	200.000				
1580	831582 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL LF 2-1/2" GALVANIZED STEEL CONDUIT IN TRENCH OR OPEN CUT	300.000				

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			DOLLARS	CTS	DOLLARS	CTS
1590	831583 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 3" LF GALVANIZED STEEL CONDUIT IN TRENCH OR OPEN CUT	500.000				
1600	831584 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 4" LF GALVANIZED STEEL CONDUIT IN TRENCH OR OPEN CUT	1000.000				
1610	831585 FURNISH AND INSTALL SECOND SUBSEQUENT ADDITIONAL 1" LF STEEL CONDUIT IN DIRECTIONAL BORE	100.000				
1620	831586 FURNISH AND INSTALL SECOND SUBSEQUENT ADDITIONAL LF 1-1/2" STEEL CONDUIT IN DIRECTIONAL BORE	200.000				
1630	831587 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 2" LF STEEL CONDUIT IN DIRECTIONAL BORE	250.000				
1640	831588 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL LF 2-1/2" STEEL CONDUIT IN DIRECTIONAL BORE	300.000				
1650	831589 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 3" LF STEEL CONDUIT IN DIRECTIONAL BORE	500.000				

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			DOLLARS	CTS	DOLLARS	CTS
1660	831590 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 4" STEEL CONDUIT IN DIRECTIONAL BORE	 750.000 LF				
1670	832001 FURNISH AND INSTALL 1-CONDUCTOR #4/0 AWG STRANDED COPPER, TYPE USE-2	 500.000 LF				
1680	832002 FURNISH AND INSTALL 1-CONDUCTOR # 3/0 AWG STRANDED COPPER, TYPE USE-2	 750.000 LF				
1690	832003 FURNISH AND INSTALL 1-CONDUCTOR #2/0 AWG STRANDED COPPER, TYPE USE-2	 1000.000 LF				
1700	832006 FURNISH AND INSTALL 1-CONDUCTOR #2 AWG STRANDED COPPER, TYPE USE-2	 2500.000 LF				
1710	832007 FURNISH AND INSTALL 1-CONDUCTOR #4 AWG STRANDED COPPER, TYPE USE-2	 1700.000 LF				
1720	832008 FURNISH AND INSTALL 1-CONDUCTOR #6 STRANDED COPPER, TYPE USE-2	 5700.000 LF				
1730	832009 FURNISH AND INSTALL 1-CONDUCTOR #8 STRANDED COPPER, TYPE USE-2	 25000.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
1740	832010 FURNISH AND INSTALL 1-CONDUCTOR #10 STRNDED COPPER, TYPE USE-2	 5000.000 LF				
1750	832025 FURNISH AND INSTALL 4-CONDUCTOR #18 AWG SHIELEDDED OPTICOM CABLE	 6500.000 LF				
1760	832026 FURNISH AND INSTALL 1-CONDUCTOR #14 AWG STRANDED COPPER	 1000.000 LF				
1770	832027 FURNISH AND INSTALL 1-CONDUCTOR #14 AWG SHIELEDDED CABLE	 20000.000 LF				
1780	832029 FURNISH AND INSTALL #8/2 WIRE UF W/GROUND	 500.000 LF				
1790	832031 FURNISH AND INSTALL #6 TRIPLEX ALUMINUM SERVICE CABLE	 2000.000 LF				
1800	832032 FURNISH AND INSTALL 14/4 TRAFFIC CONTROL CABLE	 700.000 LF				
1810	832033 FURISH AND INSTALL 14/9 TRAFFIC CONTROL CABLE	 8000.000 LF				
1820	832034 FURISH AND INSTALL 14/16 TRAFFIC CONTROL CABLE	 6000.000 LF				

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			DOLLARS	CTS	DOLLARS	CTS
1830	832035 REMOVAL OF CABLE FROM CONDUIT OR TRAFFIC /LIGHTING POLE	3000.000 LF				
1840	832500 SPLICING OF ELECTRICAL CABLE, UNDERGROUND	800.000 EACH				
1850	832501 SPLICING OF ELECTRICAL CABLE, ABOVEGROUND	250.000 EACH				
1860	832502 TRIPLEX SPLICE	1000.000 EACH				
1870	832504 FURNISH AND INSTALL #8 THHN STRANDED COPPER	3000.000 LF				
1880	832505 FURNISH AND INSTALL #6 AWG SOLID COPPER WIRE	10000.000 LF				
1890	832506 FURNISH AND INSTALL #1/0 AWG STRANDED COPPER	1500.000 LF				
1900	832507 FURNISH AND INSTALL 14/5 TRAFFIC CONTROL CABLE	5200.000 LF				
1910	833001 BONDING AND GROUTING EXISTING JUNCTION WELL	100.000 EACH				
1920	833002 FURNISH AND INSTALL GROUND ROD	40.000 EACH				

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			DOLLARS	CTS	DOLLARS	CTS
1930	834001 POLE BASE, TYPE 3	20.000 EACH				
1940	834002 POLE BASE, TYPE 3A	20.000 EACH				
1950	834003 POLE BASE, TYPE 3B	20.000 EACH				
1960	834004 POLE BASE, TYPE 3C	8.000 EACH				
1970	834005 POLE BASE, TYPE 4A	60.000 EACH				
1980	834006 POLE BASE, TYPE 6	35.000 EACH				
1990	834007 POLE BASE EXTENSION	70.000 CF				
2000	834008 SHEETING FOR POLE BASE	6.000 EACH				
2010	834501 PARTIAL REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS	10.000 CY				
2020	834504 LIGHT STANDARD ATTACHMENTS	100.000 EACH				

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

PAGE: 24
DATE:

CONTRACT ID: DOT1801.01 PROJECT(S): DOT1801

All figures must be typewritten.

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2030	834506 REMOVAL OF STREET LIGHTING SYSTEM	50.000 EACH				
2040	834508 REMOVAL OF SIGN ON ROADSIDE I-BEAM STRUCTURE	200.000 SF				
2050	834511 POLE BASE, TYPE 4B	15.000 EACH				
2060	834512 POLE BASE, TYPE 1	4.000 EACH				
2070	834513 POLE BASE, TYPE 2	6.000 EACH				
2080	834514 POLE BASE, TYPE 2A	6.000 EACH				
2090	834515 POLE BASE, TYPE 2B	6.000 EACH				
2100	835001 CABINET BASE TYPE F	1.000 EACH				
2110	835002 CABINET BASE TYPE M	4.000 EACH				
2120	835003 CABINET BASE TYPE P	10.000 EACH				

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

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PROJECT(S): DOT1801

All figures must be typewritten.

CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2130	835004 CABINET BASE TYPE R	2.000 EACH				
2140	835500 FURNISH AND INSTALL ADDITIONAL DISCONNECT SWITCH	10.000 LF				
2150	835502 CABINET BASE, TYPE K (HIB)	3.000 EACH				
2160	836001 INSTALLATION OF STEEL POLE (EQUAL TO OR GREATER THAN 17 FEET AND LESS THAN 40 FEET)	25.000 EACH				
2170	836002 INSTALLATION OF STEEL POLE (EQUAL TO OR GREATER THAN 40 FEET)	4.000 EACH				
2180	836005 REMOVE STEEL POLE (EQUAL TO OR GREATER THAN 40 FEET)	2.000 EACH				
2190	836006 REMOVE PEDESTAL POLE	25.000 EACH				
2200	836500 INSTALLATION OF STEEL MAST ARM POLE WITH SINGLE MAST ARM GREATER THAN 70'	10.000 EACH				
2210	836502 FURNISH AND INSTALL PEDESTAL POLE	60.000 EACH				
2220	836503 REMOVE STEEL POLE (EQUAL TO OR GREATER THAN 15' AND LESS THAN 40')	16.000 EACH				

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2230	836504 INSTALLATION OF STEEL MAST ARM POLE WITH SINGLE OR TWIN MAST ARMS UP TO 60'	17.000 EACH				
2240	836505 FURNISH 10' PEDESTAL POLE	50.000 EACH				
2250	836506 FURNISH 14' PEDESTAL POLE	20.000 EACH				
2260	836507 FURNISH PEDESTAL POLE TRANSFORMER BASE	30.000 EACH				
2270	837001 FURNISH AND INSTALL 8" LED SIGNAL HEAD SECTION, RIGID MOUNT	7.000 EACH				
2280	837002 FURNISH AND INSTALL 12" LED SIGNAL HEAD SECTION, RIGID MOUNT	145.000 EACH				
2290	837003 FURNISH AND INSTALL 8" LED SIGNAL HEAD SECTION, SPAN MOUNT	10.000 EACH				
2300	837004 FURNISH AND INSTALL 12" LED SIGN HEAD SECTION, SPAN MOUNT	220.000 EACH				
2310	837005 FURNISH AND INSTALL 8" LED TRAFFIC SIGNAL HEAD INDICATION MODULE	4.000 EACH				

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SCHEDULE OF ITEMS

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CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2320	837006 FURNISH AND INSTALL 12" LED TRAFFIC SIGNAL HEAD INDICATION MODULE	35.000 EACH				
2330	837007 FURNISH AND INSTALL SIGNAL HEAD BACKPLATE	100.000 EACH				
2340	837008 FURNISH AND INSTALL 16" LED COUNTDOWN PEDESTRIAN SIGNAL	70.000 EACH				
2350	837009 FURNISH AND INSTALL 16" LED PEDESTRIAN SIGNAL HEAD INDICATION MODULE	7.000 EACH				
2360	837010 FURNISH AND INSTALL PEDESTRIAN PUSHBUTTON WITH SIGN	70.000 EACH				
2370	837011 REALIGN OR SLIDE EXISTING SIGNAL HEAD	35.000 EACH				
2380	837500 REMOVAL OF SIGNAL OR PEDESTRIAN HEAD FROM POLE OR PEDESTAL	50.000 EACH				
2390	837501 INSTALLATION AND REMOVAL OF TRAFFIC SIGNAL HEAD INDICATION/ LED MODULE	100.000 EACH				
2400	837502 INSTALLATION AND REMOVAL OF TRAFFIC PEDESTRIAN SIGNAL HEAD INDICATION/LED MODULE	100.000 EACH				

DELAWARE DEPARTMENT OF TRANSPORTATION
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CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2410	837503 FURNISH 8" LED SIGNAL HEAD SECTION	15.000 EACH				
2420	837504 FURNISH 12" LED SIGNAL HEAD SECTION	90.000 EACH				
2430	837505 FURNISH 8" LED TRAFFIC SIGNAL HEAD INDICATION MODULE	45.000 EACH				
2440	837506 FURNISH 12" LED TRAFFIC SIGNAL HEAD INDICATION MODULE	120.000 EACH				
2450	837507 FURNISH 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD	40.000 EACH				
2460	837508 FURNISH 16" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD INDICATION MODULE	40.000 EACH				
2470	837509 FURNISH PEDESTRIAN PUSHBUTTON WITH SIGN	60.000 EACH				
2480	837510 FURINSH SIGNAL HEAD BACKPLATE	80.000 EACH				
2490	838001 FURNISH AND INSTALL SPAN WIRES, 7/16"	4000.000 LF				
2500	838002 FURNISH AND INSTALL SPAN WIRES, 1/4"	1000.000 LF				

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2510	838003 FURNISH AND INSTALL DEAD END MESSENGER WIRE ATTACHMENT	4.000 EACH				
2520	838006 ADJUSTMENT OF SPAN OR MESSENGER WIRE	10.000 EACH				
2530	838008 TRANSFER OF EXISTING SPAN OR MESSENGER ATTACHMENT	4.000 EACH				
2540	838009 REMOVAL OF MESSENGER WIRE, CABLE AND HARDWARE	1000.000 LF				
2550	838500 REMOVAL OF SPAN WIRE ATTACHMENT	10.000 EACH				
2560	838503 REMOVAL OF CABLE FROM MESSENGER WIRE	1000.000 LF				
2570	838504 REMOVAL OF SIGNAL HEAD OR OPTICOM DETECTOR FROM SPAN WIRE OR MAST ARM	120.000 EACH				
2580	839002 CUTTING OF WOOD POLE	10.000 EACH				
2590	839003 REMOVAL OF WOOD POLE	10.000 EACH				
2600	839500 FURNISH AND INSTALL WOOD POLE, CLASS II (HEAVY) - 30'	4.000 EACH				

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

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CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2610	839501 FURNISH AND INSTALL WOOD POLE, CLASS II (HEAVY) - 40'	 6.000 EACH				
2620	839502 FURNISH AND INSTALL WOOD POLE, CLASS II (HEAVY) - 50'	 8.000 EACH				
2630	839503 FURNISH AND INSTALL WOOD POLE, CLASS III - 30'	 4.000 EACH				
2640	839504 FURNISH AND INSTALL WOOD POLE, CLASS III - 40'	 6.000 EACH				
2650	839505 FURNISH AND INSTALL WOOD POLE, CLASS III - 50'	 8.000 EACH				
2660	840001 FURNISH AND INSTALL DOWN GUY AND ANCHOR	 35.000 EACH				
2670	840005 REMOVAL OF DOWN GUY AND ANCHOR	 8.000 EACH				
2680	840006 REMOVAL OF OVERHEAD GUY	 2.000 EACH				
2690	841001 FURNISH AND INSTALL WEATHERHEAD, UP TO 3", ON STEEL POLE	 12.000 EACH				
2700	842005 REMOVAL OF ELECTRIC SERVICE ON WOOD OR METAL POLE	 10.000 EACH				

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

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CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2710	842500 INSTALLATION OR REMOVAL OF PEDESTRIAN BUTTON ON WOOD OR METAL POLE	100.000 EACH				
2720	842501 FURNISH AND INSTALL ELECTRIC UTILITY SERVICE EQUIPMENT 120/240 (100 AMP)	100.000 EACH				
2730	842502 FURNISH AND INSTALL ELECTRIC UTILITY SERVICE EQUIPMENT 120/240 (200 AMP)	100.000 EACH				
2740	844001 FURNISH AND INSTALL OPTICOM EMERGENCY PREEMPTION DETECTOR	40.000 EACH				
2750	844520 INSTALL MICROWAVE DETECTION DEVICE	20.000 EACH				
2760	844521 INSTALL VIDEO DETECTION DEVICE	20.000 EACH				
2770	844522 INSTALL THERMAL DETECTION DEVICE	5.000 EACH				
2780	844523 INSTALL ROADWAY WEATHER INFORMATION SYSTEM (RWIS)	5.000 EACH				
2790	844524 INSTALL WEIGH-IN-MOTION SYSTEM (WIMS)	5.000 EACH				

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

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All figures must be typewritten.

CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2800	844525 RELOCATE MICROWAVE DETECTION DEVICE	 20.000 EACH				
2810	844526 RELOCATE VIDEO DETECTION DEVICE	 20.000 EACH				
2820	844527 RELOCATE THERMAL DETECTION DEVICE	 5.000 EACH				
2830	844528 RELOCATE ROADWAY WEATHER INFORMATION SYSTEM (RWIS)	 5.000 EACH				
2840	844529 RELOCATE WEIGH-IN-MOTION SYSTEM (WIMS)	 5.000 EACH				
2850	846001 FURNISH AND INSTALL LOOP WIRE 1-CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	 6000.000 LF				
2860	846002 FURNISH AND INSTALL A 1-1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE	 1000.000 LF				
2870	847001 INSTALL OR REMOVAL OF POLE OR POST MOUNTED CABINET	 4.000 EACH				
2880	847002 INSTALL OR REMOVAL OF BASE OR PAD MOUNTED CABINET	 4.000 EACH				

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2890	847004 LIGHTING CONTROL AND DISTRIBUTION ENCLOSURE (120/240;100 AMP)	20.000 EACH				
2900	850011 REMOVAL OF LUMINAIRE	50.000 EACH				
2910	850517 INSTALLATION OF LUMINAIRE	40.000 EACH				
2920	850520 LUMINAIRE (LED), 150 WATTS, HPS EQUIVALENT	10.000 EACH				
2930	850521 LUMINAIRE (LED), 250 WATTS, HPS EQUIVALENT	100.000 EACH				
2940	850522 LUMINAIRE (LED), 400 WATTS, HPS EQUIVALENT	10.000 EACH				
2950	850523 LUMINAIRE (LED), 640 WATTS, HPS EQUIVALENT	50.000 EACH				
2960	850524 LED WALL PACK, 250 WATTS HPS EQUIVALENT	5.000 EACH				
2970	850525 LED WALL PACK, 400 WATTS HPS EQUIVALENT	5.000 EACH				
2980	850526 LED WALL PACK, 75 WATTS HPS EQUIVALENT	10.000 EACH				

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SCHEDULE OF ITEMS

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
2990	850527 LED WALL PACK, 150 WATTS HPS EQUIVALENT	5.000 EACH				
3000	851001 ALUMINUM LIGHTING STANDARD WITH SINGLE DAVIT ARM, 30' POLE	50.000 EACH				
3010	851003 ALUMINUM LIGHTING STANDARD WITH SINGLE DAVIT ARM, 40' POLE	50.000 EACH				
3020	851502 ALUMINUM LIGHTING SINGLE DAVIT ARM, 8' ARM SPREAD	50.000 EACH				
3030	851503 ALUMINUM LIGHTING SINGLE DAVIT ARM, 12' ARM SPREAD	50.000 EACH				
3040	851504 ALUMINUM LIGHTING SINGLE DAVIT ARM, 15' ARM SPREAD	50.000 EACH				
3050	851506 ALUMINUM LIGHTING STANDARD, 30' POLE	100.000 EACH				
3060	851507 ALUMINUM LIGHTING STANDARD, 40' POLE	100.000 EACH				
3070	851509 ALUMINUM LIGHTING STANDARD WITH SINGLE TRUSS ARM, 30' POLE	100.000 EACH				
3080	851520 ALUMINUM LIGHTING SINGLE DAVIT ARM, 10' ARM SPREAD	100.000 EACH				

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

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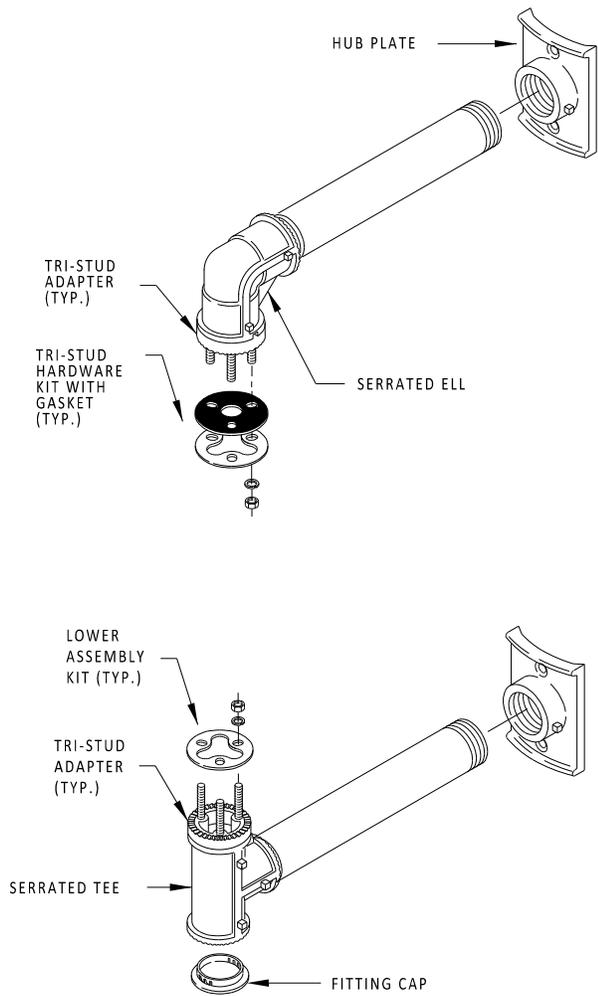
CONTRACT ID: DOT1801.01

PROJECT(S): DOT1801

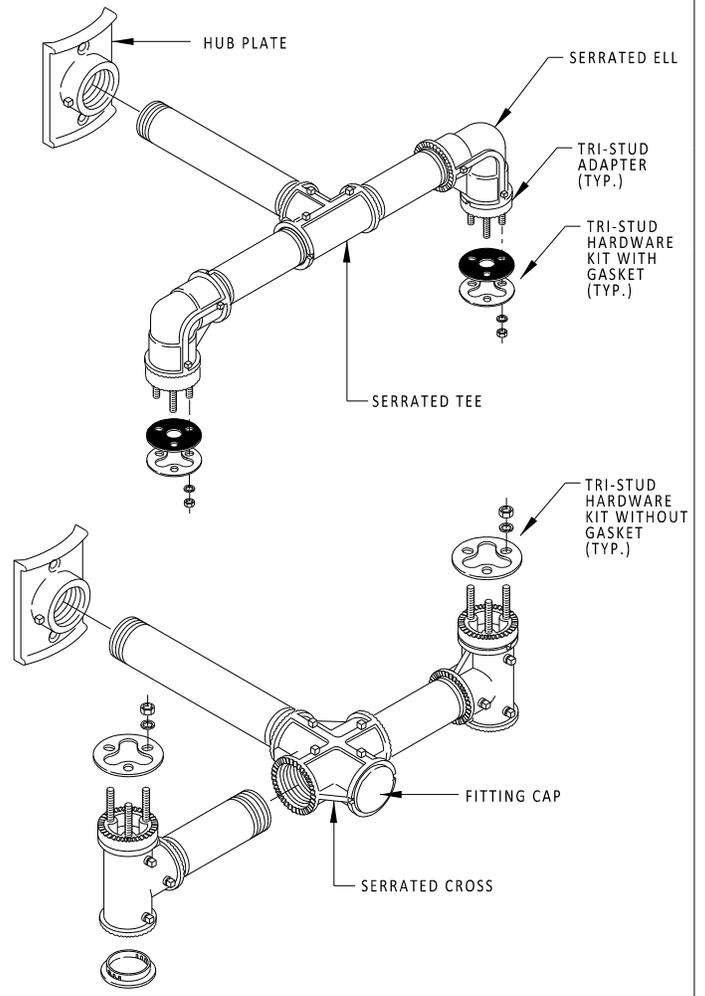
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CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
3090	851522 ALUMINUM LIGHTING SINGLE DAVIT ARM, 20' ARM SPREAD	100.000 EACH				
3100	908001 TOPSOIL	100.000 TON				
3110	908020 EROSION CONTROL BLANKET MULCH	3000.000 SY				
3120	908021 TURF REINFORCEMENT MATTING, TYPE 1	800.000 SY				
3130	908514 FURNISHING SOD	300.000 SY				
	SECTION 0001 TOTAL					
	TOTAL BID					



ONE-WAY SIDE POLE MOUNTING



TWO-WAY SIDE POLE MOUNTING

NOTES:

1. THE TOP HUB PLATE SHALL BE ROTATED UPWARD WHEN THE SIGNAL HEAD IS MOUNTED ON A WOOD POLE.
2. A 1" DIA. HOLE SHALL BE DRILLED IN THE METAL POLE FOR WIRING AT BOTTOM PLATE.
3. THE UPPER ARM SHALL CONSIST OF A SERRATED ELL, 12" NIPPLE, GASKET AND TRI-STUD ADAPTER.
 - THE SERRATED ELL SHALL HAVE A SERRATED 72 TOOTH BOSS ON ONE END WITH TRI-STUD MOUNTING. THE OUTSIDE DIAMETER OF THE SERRATION SHALL NOT EXCEED 2 3/8". THE NON-SERRATED END OF THE ELL SHALL BE NOTCHED TO ACCEPT A SEPARATE SERRATED LOCKRING. THE ELL SHALL BE THREADED 1 1/2" NPS ON BOTH ENDS. THE ELL SHALL HAVE A MINIMUM 3/8" WIDTH BOSS THAT EXTENDS THE ENTIRE LENGTH OF BOTH SIDES, ON ONE SIDE OF THE BOSS AT EACH END OF THE ELL SHALL BE A 1/4" - 20 THREADED OPENING FOR A SETSCREW.
 - A 1 1/2" X 12" EXTRUDED NIPPLE SHALL HAVE 1 1/2" NPS THREADS ON BOTH ENDS. THE NIPPLE SHALL HAVE A "BRUSHED" FINISH.
4. THE LOWER ARM SHALL CONSIST OF A SERRATED TEE, 12" NIPPLE AND TRI-STUD ADAPTER.
 - THE SERRATED TEE SHALL BE FABRICATED LIKE THE ELL EXCEPT THE TEE IS TO HAVE SERRATIONS ON TWO (2) THREADED OPENINGS 90° APART. THE NON-SERRATED END SHALL COME STANDARD WITH A PLASTIC KNOCKOUT PIN.
 - THE 1 1/2" X 12" NIPPLE SHALL BE THE SAME AS ABOVE.
5. FOR WOOD POLE MOUNTING:
 - ATTACHMENT STRAPS FOR WOOD POLE SHALL BE 3/4" WIDTH, TYPE 201, STAINLESS STEEL.
 - ATTACHMENT BOLTS FOR WOOD POLE SHALL BE STAINLESS STEEL 3/8" DIA. x 2 1/2" LENGTH.
6. ALL HARDWARE SHALL BE YELLOW COATED.

SPECIFICATION
837001
837002
837008
837503
837504
837507

CATEGORY CODE ITEMS
SIGNAL HEADS

APPROVED _____
CHIEF TRAFFIC ENGINEER



4 ADDED NEW SHEET

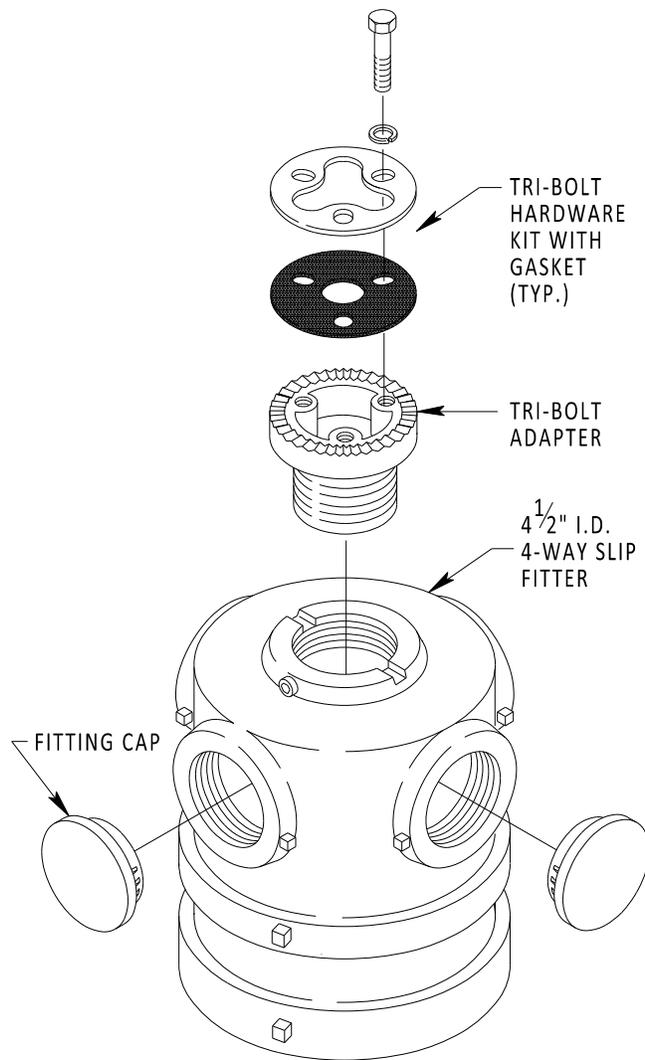
**DELAWARE
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONSTRUCTION DETAILS

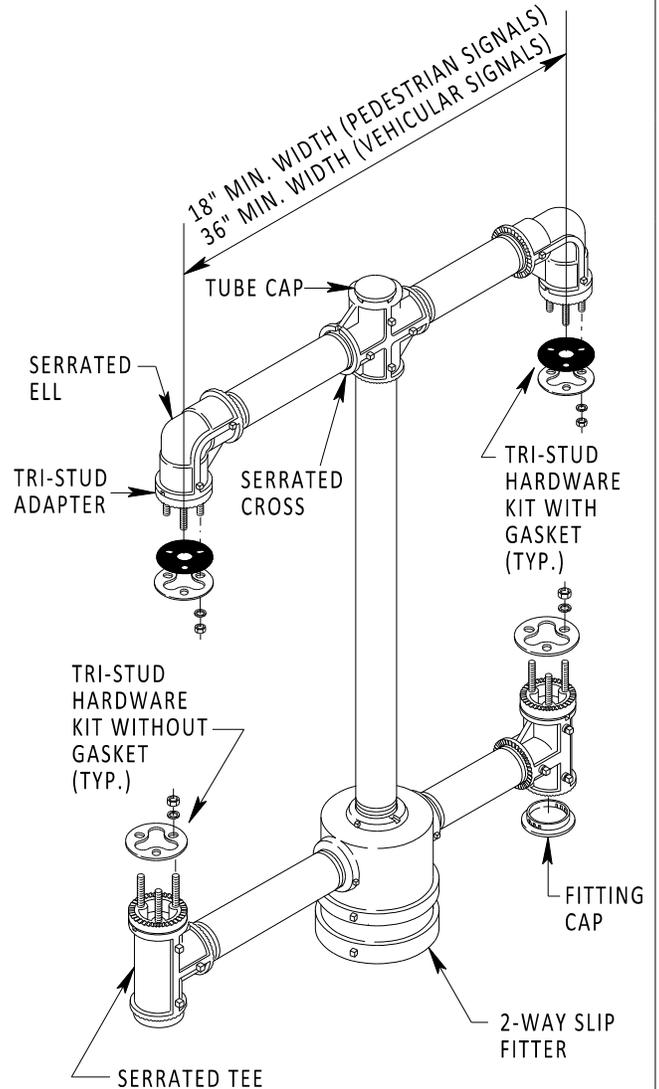
**SIDE POLE MOUNTING FOR
VEHICULAR AND PEDESTRIAN SIGNAL HEADS**

DETAIL NO.

DE 837.001-01



TOP POLE MOUNTING FOR ONE,
TWO, THREE & FOUR-WAY SIGNAL



TOP POLE MOUNTING
FOR TWO-WAY SIGNAL

NOTES:

1. ALL CAST MOUNTING HARDWARE SHALL BE ALODINE FINISHED ALUMINUM.
2. ALL BOLTS SHALL BE STAINLESS STEEL.
3. ALL HARDWARE SHALL BE YELLOW COATED.

SPECIFICATION
837001
837002
837008
837503
837504
837507

CATEGORY CODE ITEMS
SIGNAL HEADS

APPROVED _____

CHIEF TRAFFIC ENGINEER



ADDED NEW SHEET

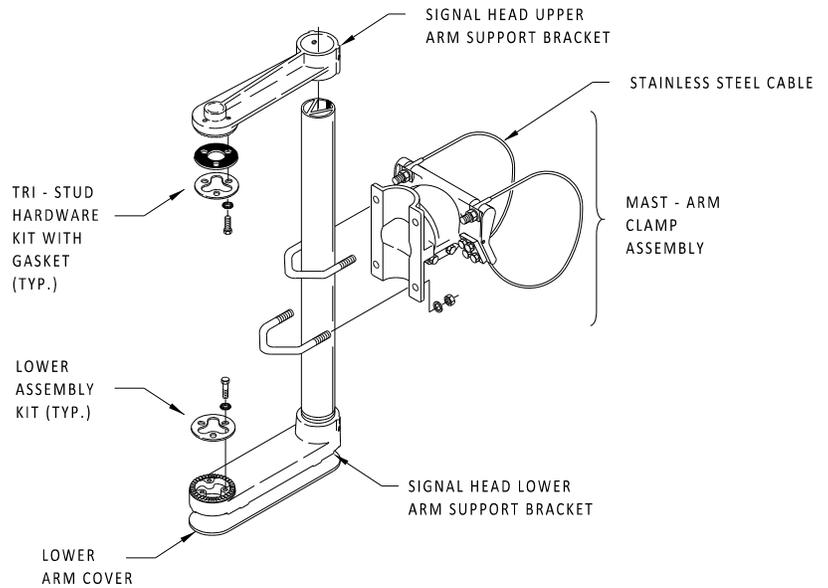
**DELAWARE
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONSTRUCTION DETAILS

**TOP POLE MOUNTING FOR
VEHICULAR AND PEDESTRIAN SIGNAL HEADS**

DETAIL NO.

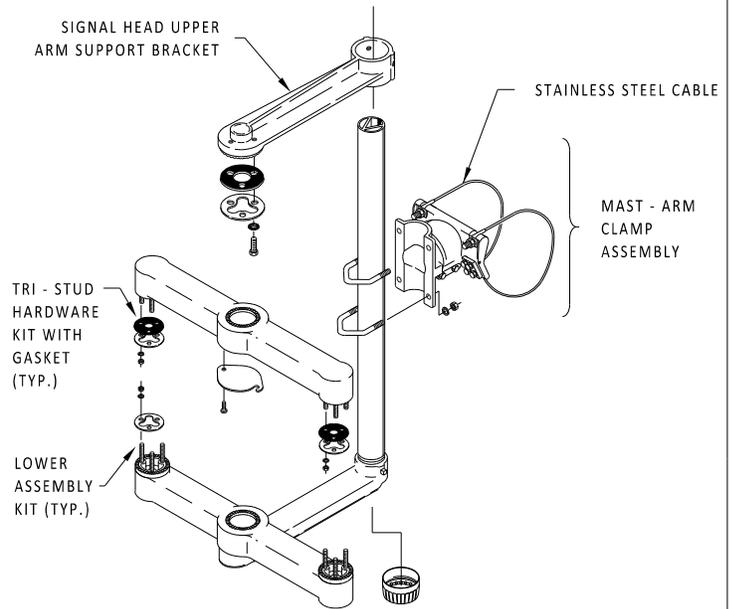
DE 837.001-02



**ONE-WAY, THREE OR FOUR - SECTION
8" OR 12" SIGNAL HEADS**

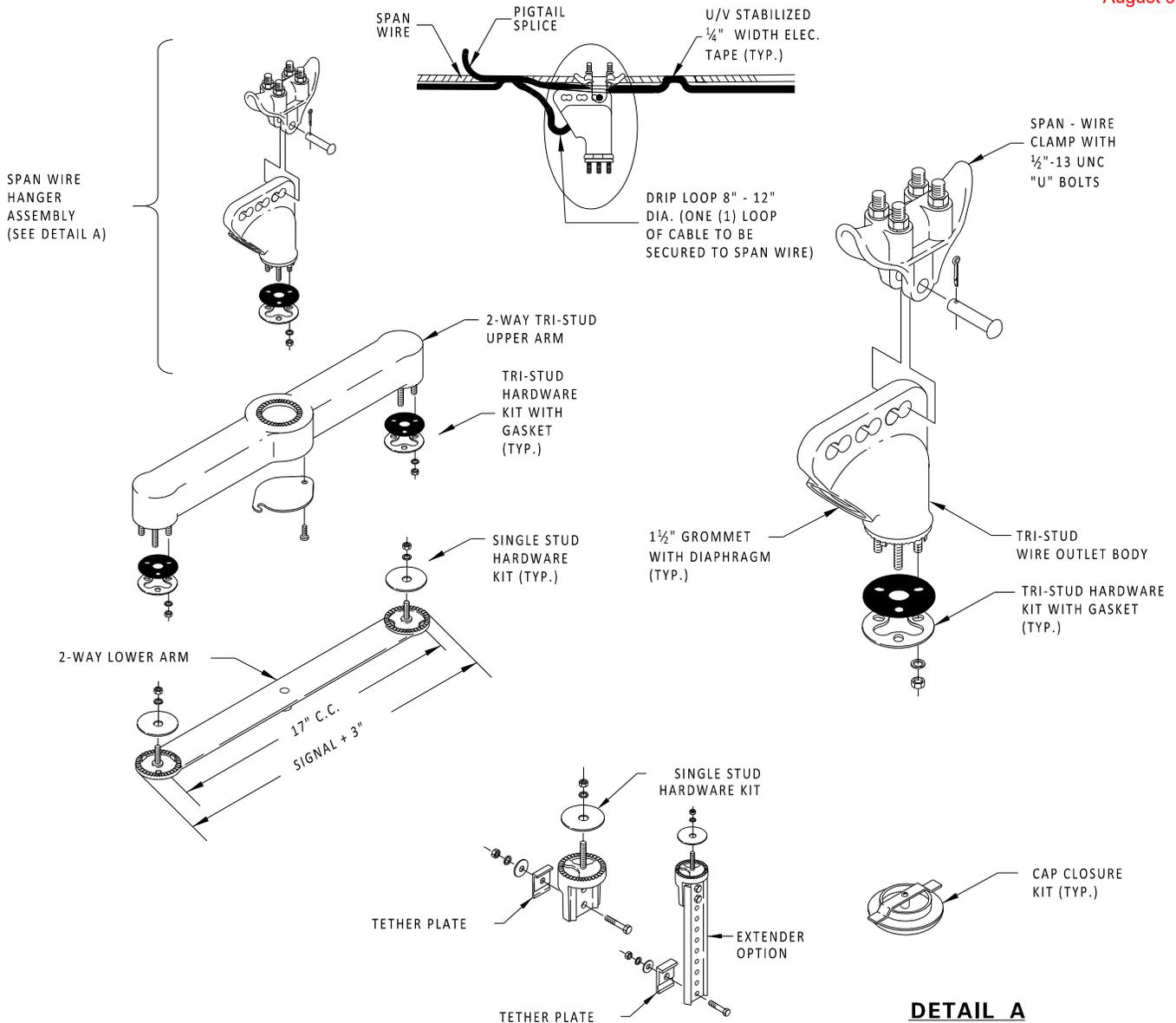
NOTES:

1. ALL CAST MOUNTING HARDWARE SHALL BE ALUMINUM WITH ALODINE FINISH.
2. ALL BOLTS SHALL BE STAINLESS STEEL.
3. BRACKET SHALL ADJUST IN FOUR DIRECTIONS.
4. UPPER AND LOWER ARMS SHALL BE CAST FROM 319 ALUMINUM ALLOY.
5. VERTICAL SUPPORT TUBE SHALL BE DOUBLE GUSSETED "C" SHAPED AND EXTRUDED FROM 6063 - T6 ALUMINUM ALLOY.
6. MAST ARM CLAMP ASSEMBLY SHALL BE CAST FROM 356 - T6 ALUMINUM ALLOY.
7. STRANDED CABLE SHALL BE STAINLESS STEEL, FABRICATED IN ONE PIECE.
8. CUT VERTICAL SUPPORT TUBE TO PROJECT 1" ABOVE SIGNAL HEAD TOP SUPPORT BRACKET.
9. WHEN ASSEMBLED, THE RECEIVING AND INDENTED PORTION OF THE CLAMP ASSEMBLY SHALL CONSIST OF TWO MIRRORED HALVES. THE CLAMP ASSEMBLY SHALL BE INVERSELY TIGHTENED AROUND THE MAST ARM OR POLE.
10. THE PROTRUDING PORTION OF THE CLAMP ASSEMBLY, WHICH FITS IN THE RECEIVING AND INDENTED PORTION, SHALL HAVE AN INTEGRALLY CAST FLANGE TO PREVENT SEPARATION FROM THE RECEIVING AND INDENTED SECTION.
11. ALL HARDWARE SHALL BE YELLOW COATED.



**ONE-WAY, FOUR OR FIVE - SECTION
8" OR 12" SIGNAL HEADS**

SPECIFICATION 837001 837002 837503 837504	CATEGORY CODE ITEMS SIGNAL HEADS	DELAWARE DEPARTMENT OF TRANSPORTATION TRAFFIC CONSTRUCTION DETAILS SIGNAL HEAD MOUNTING DETAILS RIGID MOUNT	
APPROVED _____ CHIEF TRAFFIC ENGINEER			
	 ADDED NEW SHEET	DETAIL NO. DE 837.002-01	



INVERTED "T" SIGNAL HEAD SPAN WIRE ASSEMBLY

NOTES:

1. UPPER AND LOWER - ARM SHALL HAVE 17" CENTER-TO-CENTER SIGNAL MOUNTING DIMENSION.
2. UPPER - ARM SHALL HAVE A MINIMUM 1 1/2" OPENING THROUGHOUT FOR EASE OF WIRING AND INSTALLATION.
3. UPPER - ARM ATTACHMENT END SHALL BE SERRATED AND HAVE THREE (3) SIGNAL CENTERING BOSSES EXTENDING 3/16" FROM SERRATIONS.
4. UPPER ARM SHALL HAVE SERRATIONS AT SIGNAL ATTACHMENT END, AND TOP CENTER OPENING SHALL HAVE 72 TOOTH DESIGN (TO WATCH SIGNAL HEAD).
5. UPPER - ARM SHALL HAVE THREE (3) STAINLESS STEEL STUDS WHICH SHALL BE CAST INTO EACH SIGNAL ATTACHMENT END. THE STUDS SHALL BE 5/16" - 18 AND EXTEND 1 1/2" BEYOND THE SERRATION (+ 1/8").
6. UPPER - ARM SHALL HAVE 3 1/2" CENTER OPENING TO ALLOW FOR WIRE ACCESS.
7. UPPER - ARM CENTER OPENING SHALL HAVE AN INSPECTION COVER THAT IS CAPABLE OF BEING OPENED WITHOUT THE REMOVAL OF ANY SCREWS. THE COVER SHALL ROTATE ABOUT THE AXIS OF ONE END AND BE SECURED AT THE OTHER END.
8. LOWER - ARM SHALL HAVE HALF CIRCLE SERRATIONS ON BOTTOM FOR TETHER HARDWARE.
9. ORIENT WIRE OUTLET BODY IN SAME DIRECTION AS SIGNAL FACES.
10. ALL HARDWARE SHALL BE YELLOW COATED.

SPECIFICATION

837003
837004
837503
837504

CATEGORY CODE ITEMS
SIGNAL HEADS

APPROVED

CHIEF TRAFFIC ENGINEER



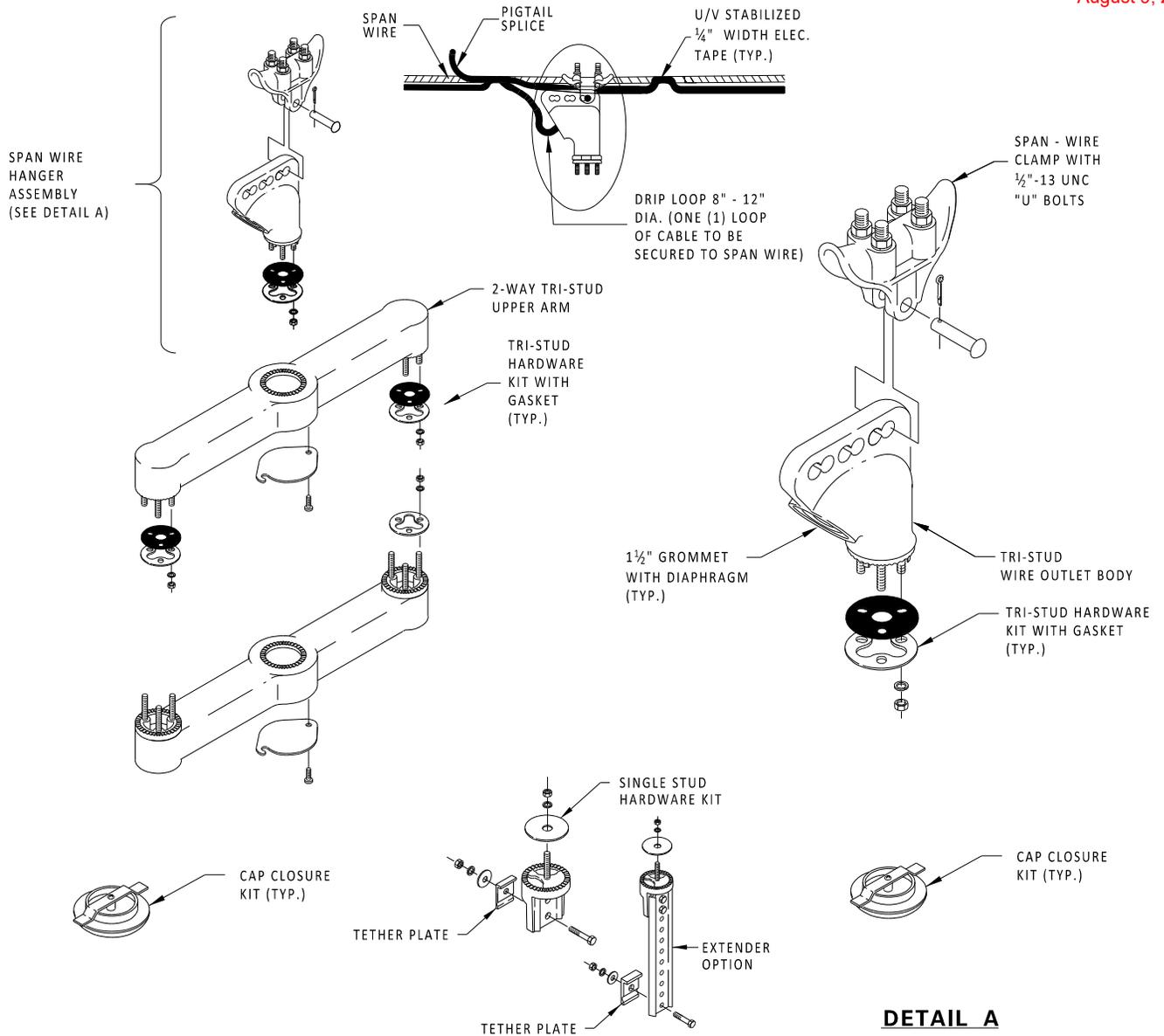
4 ADDED NEW SHEET

**DELAWARE
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONSTRUCTION DETAILS
**SIGNAL HEAD MOUNTING DETAILS
SPAN WIRE MOUNTING FOR 3 OR 5
SECTION VEHICULAR SIGNAL HEADS**

DETAIL NO.

DE 837.003-01



"T" SIGNAL HEAD SPAN WIRE ASSEMBLY

NOTES:

1. UPPER AND LOWER - ARM SHALL HAVE 17" CENTER-TO-CENTER SIGNAL MOUNTING DIMENSION.
2. UPPER - ARM SHALL HAVE A MINIMUM 1 1/2" OPENING THROUGHOUT FOR EASE OF WIRING AND INSTALLATION.
3. UPPER - ARM ATTACHMENT END SHALL BE SERRATED AND HAVE THREE (3) SIGNAL CENTERING BOSSES EXTENDING 3/16" FROM SERRATIONS.
4. UPPER ARM SHALL HAVE SERRATIONS AT SIGNAL ATTACHMENT END, AND TOP CENTER OPENING SHALL HAVE 72 TOOTH DESIGN (TO WATCH SIGNAL HEAD).
5. UPPER - ARM SHALL HAVE THREE (3) STAINLESS STEEL STUDS WHICH SHALL BE CAST INTO EACH SIGNAL ATTACHMENT END. THE STUDS SHALL BE 3/16" - 18 AND EXTEND 1 1/2" BEYOND THE SERRATION (+ 1/8").
6. UPPER - ARM SHALL HAVE 3 1/2" CENTER OPENING TO ALLOW FOR WIRE ACCESS.
7. UPPER - ARM CENTER OPENING SHALL HAVE AN INSPECTION COVER THAT IS CAPABLE OF BEING OPENED WITHOUT THE REMOVAL OF ANY SCREWS. THE COVER SHALL ROTATE ABOUT THE AXIS OF ONE END AND BE SECURED AT THE OTHER END.
8. LOWER - ARM SHALL HAVE HALF CIRCLE SERRATIONS ON BOTTOM FOR TETHER HARDWARE.
9. ORIENT WIRE OUTLET BODY IN SAME DIRECTION AS SIGNAL FACES.
10. ALL HARDWARE SHALL BE YELLOW COATED.

SPECIFICATION
837003
837004
837503
837504

CATEGORY CODE ITEMS
SIGNAL HEADS

APPROVED _____

CHIEF TRAFFIC ENGINEER



4 ADDED NEW SHEET

**DELAWARE
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONSTRUCTION DETAILS
**SIGNAL HEAD MOUNTING DETAILS
SPAN WIRE MOUNTING FOR 4
SECTION "T" VEHICULAR SIGNAL HEADS**

DETAIL NO.

DE 837.003-02