

**Roadway Illumination and Electrical Supplies
Table of Contents**

Materials Pre-qualified for Illumination and Electrical items 610-628
No additional submittals are required for products that are pre-qualified

	<u>Page</u>
Item 610 – Roadway Illumination Assemblies.....	2
Item 613 – High Mast Illumination Pole.....	12
Item 614 – High Mast Illumination Assemblies.....	13
Item 618 – Conduit..... (Includes fittings, junction boxes and expansion joints - Future)	18
Item 620 – Electrical Conductors..... (Includes fuse holders) (and applicable parts for making splices - Future)	24
Item 621 – Tray Cable.....	27
Item 622 – Duct Cable.....	29
Item 624 – Ground Boxes.....	31
Item 628 – Electrical Services.....	37

Notice:

All submittal and corresponding documentation becomes public information.
All manufacturers’ products that are listed within this document are pre-qualified.
TxDOT reserves the right to remove any manufacturer or product from this list, at any time. Manufacturers interested in being added to the pre-qualified list should contact Traffic Operations Division.

Item 610 – Roadway Illumination Assemblies

General

The following products are pre-qualified for use on the projects where roadway illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	◆ Induction Fluorescent Underpass Fixture	◆ UDP-165-QL-GR
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	◆ Induction Fluorescent Underpass Fixture	◆ TS2020-3/3-1-150IND- 277V-R-SSPH-TEXAS
ESCO Lighting 3254 N. Kilborn Ave. Chicago, IL 60641 (773) 427-7000 http://www.escolighting.com	ESCO	◆ Induction Fluorescent Underpass Fixture	◆ SP2343

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
H.E. Williams 831 W. Fairview Ave. P.O. Box 837 Carthage, MO 64836 (417) 358-4065 http://www.hew.com	Infinity	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture ◆ BB Box Beam ◆ BD Bridge Deck ◆ UB U-Beam 	<ul style="list-style-type: none"> ◆ ICERL1-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL3-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL5-150S-41K-BAT/CG1-14DEG-UNV <p>New Part Numbers – Same Fixture – October 2006 Old Part Numbers (ICEDC) Phased Out</p>
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Fail-Safe	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ TF28-150ICE-UNV-A1432

Roadway Illumination Assemblies – Luminaire			
Manufacturer	Brand	Type	Model
<p>Cooper</p> <p>1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800</p> <p>http://www.cooperlighting.com</p>	Streetworks	<ul style="list-style-type: none"> ◆ 150W HPS- 240/480 Volt ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ OVW15SMJ3DD0004 ◆ OVW25SMG2DD0001 ◆ OVW25SMJ2DD0002 ◆ OVW40SMG2DD0005 ◆ OVW40SMJ2DD0003
<p>G.E. Lighting Systems, Inc.</p> <p>3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372</p> <p>http://www.gelightingsystems.com</p>	M4RC	<ul style="list-style-type: none"> ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ M4RC25S7M4GSC2311 or GE Manufacture #168025 ◆ M4RC25S9M4GSC2311 or GE Manufacture #168023 ◆ M4RC40S7M4GSC3311 or GE Manufacture #157785 ◆ M4RC40S9M4GSC3311 or GE Manufacture #158165

Item 610 – Roadway Illumination Assemblies**General**

Roadway Illumination Poles do not need to be pre-qualified when TxDOT RIP-07 (Roadway Illumination Poles -2007) standard sheets are included in the plan set.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of Item 610 and applicable Special Provisions to Item 610.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP-07 (Roadway Illumination Poles -2007). Poles fabricated according to RIP-07 require no shop drawings.

Alternate designs to RIP-07 or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on submitting shop drawings electronically go to:

<http://www.dot.state.tx.us/publications/bridge.htm>

File is titled: Guide to Electronic Shop Drawing Submittal.

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
<p>Valmont Industries, Inc.</p> <p>7002 N. 288th St. P.O. Box 358 Valley, NE 68064-0358 (402) 359-2201</p> <p>http://www.valmont.com/</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Barrier Mount ◆ 30-50 Ft.-Steel Pole Bridge Mount 	<ul style="list-style-type: none"> ◆ All Poles Based on Drawing # DB00388 Sheet 1 of 2 Revision Date 6-24-02 ◆ All Anchor Bolt Details Based on Drawing # DB00388 Sheet 2 of 2 Revision Dated 6-24-02
<p>Union Metal Corporation</p> <p>1432 Maple Ave., NE P.O. Box 9920 Canton, OH 44705 (330) 456-7653</p> <p>http://www.unionmetal.com/</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # T1408-B2 – Sheet 1 of 2 Revision Date 11-8-02 & #T1408-B2 – Sheet 2 of 2 Dated 1-11-00 Anchor Bolt Details Based on Drawing # AA8 & AA3A – No Date ◆ Based on Drawing # T1406-B4 – Sheet 1 of 2 Revision Date 11-8-02 & #T1404-B4 – Sheet 2 of 2 Dated 1-26-00 Anchor Bolt Details Based on Drawing # A2A & A2D – Revision Date 11-8-02 ◆ Based on Drawing # T1406-B3 – Sheet 1 of 2 Revision Date 11-8-02 & #T1406-B3 – Sheet 2 of 2 Dated 1-14-00 Anchor Bolt Details Based on Drawing # AA9 & AA2A – Revision Date 11-8-02

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
<p>Hapco</p> <p>26252 Hillman Highway Abingdon, VA 24210 (800) 368-7171</p> <p>http://www.hapco.com/</p>		<ul style="list-style-type: none"> ◆ 40 Ft.-Aluminum with 8Ft. Arm Only 	<ul style="list-style-type: none"> ◆ Based on Drawing # B82627 and B83058
<p>Whitco Poles</p> <p>7700 Wyatt Drive Ft. Worth, TX 76108 (800) 433-7753</p> <p>http://www.whitcoples.com</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # TX-DOT-003 ◆ Based on Drawing # TX-DOT-001 ◆ Based on Drawing # TX-DOT-002

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Millerbernd Manufacturing, Co. 622 6th. Street South P.O. Box 98 Winsted, MN 55395 (320) 485-2111 http://www.millerberndmfg.com		◆ 30 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B588 Sheet 1 of 1 Revision Date 6-15-05
		◆ 40 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B586 Sheet 1 of 1 Revision Date 6-3-05
		◆ 50 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B587 Sheet 1 of 1 Revision Date 6-3-05
		◆ 30 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B694 Sheet 1 of 1 Revision Date 9-26-05
		◆ 40 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B691 Sheet 1 of 1 Revision Date 9-26-05
		◆ 50 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B693 Sheet 1 of 1 Revision Date 9-26-05
		◆ 30 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B589 Sheet 1 of 1 Revision Date 6-28-05
		◆ 40 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B590 Sheet 1 of 1 Revision Date 6-28-05
		◆ 50 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B591 Sheet 1 of 1 Revision Date 6-28-05
		◆ 30 Ft.-Requisition Pole	◆ Based on Drawing # 730B707 Sheet 1 of 1 Date 7-13-05
		◆ 40 Ft.-Requisition Pole	◆ Based on Drawing # 730B643 Sheet 1 of 1 Revision Date 6-16-05
		◆ 50 Ft.-Requisition Pole	◆ Based on Drawing # 730B644 Sheet 1 of 1 Revision Date 6-16-05

High Pressure Sodium Lamps			
Manufacturer	Brand	Type	Model
Osram Sylvania 100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828 http://www.sylvania.com/	Sylvania - Lumalux Plus®/ECO	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 67312 - LU400/PLUS/ECO ◆ 67572 - LU250/PLUS/ECO ◆ 67494 - LU150/55/PLUS/ECO

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394-2877 http://www.bussmann.com/	Bussmann	♦ Double-pole ♦ Double-pole	♦ HEX-KW-DRYC – used when no neutral is required ♦ HEN-KW-DRYC – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	♦ Double-pole ♦ Double-pole	♦ 0LEXYYSX – used when no neutral is required ♦ LEXT0YYSX – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.

Item 613 – High Mast Illumination Poles

General

There are no pre-qualified High Mast Illumination Poles.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of item 613. Provide components that fit together properly.

- (a) **Alternate Design.** Approval must be obtained for alternate designs. Obtain approval to eliminate the ground sleeve (with associated changes to the base plate bolt circle) or to significantly modify the access hole ring by testing a full-scale specimen of the base section. Support the specimen at the base plate on double-nutted anchor bolts. Load the specimen to produce maximum compression on the access hole ring. Provide test results that clearly demonstrate the specimen can develop the factored moment capacity (load factor of 1.38 multiplied by wind factor of 1.4 multiplied by F_b) which is approximately the full plastic bending capacity. Once a fabricator obtains approval for modified details, this approval extends to all future TxDOT projects.
- (b) **Shop Drawings.** Do not provide shop drawings for high mast illumination poles fabricated in accordance with this Item and the plans. Provide shop drawings for alternate designs. The submission of shop drawings is only required the first time each alternate design is used. Submit seven sets of shop drawings to the Bridge Division.

Item 614 – High Mast Illumination Assemblies

General

The following products are pre-qualified for use on the projects where high mast illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Luminaire – High Mast			
Manufacturer	Brand	Type	Model
Holophane 214 Oakwood Ave. Newark, OH 43055 (740) 345-9631 (512) 791-7982 http://www.holophane.com	High Mast Cutoff-HMSC High Mast Dark Skies-HMSD	<ul style="list-style-type: none"> ◆ High Mast – Type B ◆ High Mast – Type S Type A and C Removed From List. 4-26-07	<ul style="list-style-type: none"> ◆ HMSC40RHP48BTX03 ◆ HMSD40RHP48STX03 Type A and C Removed From List. 4-26-07
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingssystem.com	G.E.	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ 159189 ◆ 159190 ◆ 159191 ◆ 159193
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Streetworks	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ GMA40SM83DD0018 ◆ GMA40SM83DD0019 ◆ GMA40SM83DD0020 ◆ GMA40SM8ARD0017

High Mast Kit

Manufacturer	Brand	Type	Model
Mica Corporation 5750 N. Riverside Dr. Fort Worth, TX 76137 (817) 577-2088 http://www.micacorporation.com	Mica Corporation	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-PH ♦ HMK-150-PH ♦ HMK -175-PH
Carolina High Mast, Inc. 700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046	Carolina High Mast, Inc.	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-CHMI ♦ HMK-150-CHMI ♦ HMK -175-CHMI
Rexel 2400 Brockton San Antonio, TX 78217 (210) 352-1047 http://www.rexelusa.com	Rexel	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-RX ♦ HMK-150-RX ♦ HMK -175-RX

High Mast Kit

Manufacturer	Brand	Type	Model
Wildcat Electric Supply, Ltd. 2061 Clovis Barker Road #5. San Marcos, TX 77666 (512) 396-8900 (866) 301-5200 http://www.wildcatelectric.com	Wildcat	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-WC ◆ HMK-150-WC ◆ HMK -175-WC

High Mast Ring- Previously Approved Shop Drawings

Manufacturer		Type	
<p>J.W. Hall Enterprises, Inc.</p> <p>17731 Elizabeth Rd. Algoa, TX 77511 (281) 337-6311</p> <p>http://www.jwhall.com</p>		<p>◆ High Mast Ring</p> <p>Drawing # HM 2002-01 Sheets 1 through 6 Drawing # HE 2002 Sheets 7 through 9</p>	
<p>Carolina High Mast, Inc.</p> <p>700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046</p>		<p>◆ High Mast Ring</p> <p>Drawing # TXDOT-01 Sheets 1 through 5 Drawing # TXDOT-02 Sheets 1 through 4 Drawing # TXDOT-03 Sheets 1 through 4 Drawing # TXDOT-04 Sheets 1 through 3</p>	
<p>Traffic Control Devices</p> <p>4417 Main Street Pearland, TX 77581 (281) 992-3030</p> <p>http://www.tcd.cc</p>		<p>◆ High Mast Ring</p> <p>Drawing # E-901 Sheets 1 through 10</p>	

High Mast Ring- Previously Approved Shop Drawings			
Manufacturer		Type	
Brookfield Fabricating Corp. Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214		♦ High Mast Ring Drawings Dated 4-8-96 Sheets 1 through 4	
PKM Steel Service 228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638 http://www.pkmsteel.com/		♦ High Mast Ring Sheet E1 Dated 8-2-05 Sheet 1 Dated 10-12-05 Sheet 2 Dated 10-12-05 Sheet 3 Dated 10-12-05	

Item 618 – Conduit

General

The following products have been tested and are pre-qualified for use on projects where Conduit, Junction Boxes, Expansion Joints and Conduit Fittings are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Rigid Metallic Conduit – (RMC)			
Manufacturer	Brand	Type	Model
Allied 16100 S. Lathrop Avenue Harvey, IL 60426-6021 (800) 882-5543 http://www.alliedtube.com	Allied	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
Wheatland 900 Haddon Avenue P.O. Box 600 Collingswood, NJ 08108-0600 (800) 257-8182 http://www.wheatland.com/	Wheatland	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)			
Manufacturer	Brand	Type	Model
Cantex P.O. Box 340 Mineral Wells, TX 76068 (940) 325-3344 (800) 433-5623 http://www.cantexinc.com/	Cantex	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Georgia Pipe Company 1206 Sunset Drive P.O. Box 2235 Thomasville, GA 31799 (229) 226-7337 http://www.alliedtube.com/	Georgia Pipe	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	J-M PVC Conduits	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Lansom & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlon	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)			
Manufacturer	Brand	Type	Model
National Pipe & Plastics, Inc. 3421 Old Vestal Road Vestal, NY 13850 (800) 836-4350 http://www.nationalpipe.com/	NPPI PVC	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791 http://www.heritageplastics.com/	Heritage	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
PW Eagle, Inc. P.O. Box 10049 Eugene, OR 97477 (800) 347-0200 http://www.pweaglepipe.com	PW Eagle	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Perma-Guard/ UL	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SW 400 050 N000-UL ◆ 3/4" SW 400 075 N000-UL ◆ 1" SW 400 100 N000-UL ◆ 2" SW 400 200 N000-UL ◆ 3" SW 400 300 N000-UL
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line – Smoothwall	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SCH-40 (0538-11007-0000000) ◆ 3/4" SCH-40 (0738-11007-0000000) ◆ 1" SCH-40 (1038-11007-0000000) ◆ 1.25" SCH-40 (1238-11007-0000000) ◆ 1.50" SCH-40 (1538-11007-0000000) ◆ 2" SCH-40 (2038-11007-0000000) ◆ 3" SCH-40 (3038-11007-0000000) ◆ 4" SCH-40 (3538-11007-0000000) ◆ 5" SCH-40 (3638-11007-0000000) ◆ 6" SCH-40 (3738-11007-0000000)
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	HDPE ® - HDPE Duct/Inner Duct	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1 ¼" 1.25 7.5M S40 BLK ◆ 1 ½" 1.5 6M S40 BLK ◆ 2" 2 3M S40 BLK ◆ 3" 3 1M S40 BLK ◆ 4" 4 725M S40 BLK
Lamson & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlton/UL Listed HDPE	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" U2C4-UV ◆ 3/4" U3C4-UV ◆ 1" U5C4-UV ◆ 1 ¼" U6C4-UV ◆ 1 ½" U9C4-UV ◆ 2" U13C4-UV ◆ 3" U15C4-UV ◆ 4" U16C4-UV

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Rinker Materials P.O. Box 390 Gainsville, TX 76240 (800) 433-5632 http://www.rinker.com/	PolyPipe® HDPE Duct Pipe	♦ HDPE Conduit – Schedule 40 Color - Black	♦ PolyPipe® EHMW – PE3408 ½” to 4”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond HDPE	♦ HDPE Conduit – Schedule 40 Color - Black	♦ 1/2" BDI065BK-UL ♦ 3/4" BDI095BK-UL ♦ 1" BDI115BK-UL ♦ 1 ¼" BDI135BK-UL ♦ 1 ½" BDI165BK-UL ♦ 2" BDI215BK-UL ♦ 3" BDI315BK-UL ♦ 4" BDI414BK-UL

Precast Polymer Concrete Junction Box for Concrete Traffic Barrier			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.strongwell.com	Hubbell Quazite	♦ Median Barrier Box ♦ Median Barrier Box – for Concrete Barrier (F-Shape)	♦ PC1012B500/PC1012CA00 ♦ PC0516B500/PC0516CA00

Item 620 – Conductors

General

The following products are pre-qualified for use on projects where Conductors are furnished or installed as required by the item descriptive code. Where splicing materials, insulating materials, GelCaps, fuse holders or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 750 kcmil ♦ 6 AWG & 8AWG Available in Black Only
Encore Wire 1410 Millwood Rd. McKinney, TX 75069 (800) 962-9473 http://www.encorewire.com/	Encore	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil
Service Wire Company Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 750 kcmil

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil ♦ 6 AWG & 8AWG Available in Black Only
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394 2877 http://www.bussmann.com/	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. To be used when TxDOT Standards RIP-07 and RID-07 sheets are in plan set.</p>
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 0LEXYYSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>

Item 621 – Tray Cable

General

The following products are pre-qualified for use on projects where Tray Cable is furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 500 kcmil
Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 750 kcmil
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 500 kcmil

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ Tray Cable – Power Cable – XLP XHHW Insulation, PVC Jacket, Copper Conductors	♦ Available in 12 AWG -3 and 4 conductor

Item 622 – Duct Cable

General

The following products are pre-qualified for use on projects where Duct Cable is furnished or installed as required by the item descriptive code. Where connectors are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Arnco	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (800) 233-3190 http://www.drakausa.com	Draka	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Item 624 – Ground Boxes

General

The following products are pre-qualified for use on projects where Ground Boxes are furnished or installed as required by descriptive code. Products are subject to testing. No substitutions will be allowed for Types A through E as listed below. For types not listed below, applicable TxDOT standards and specifications will apply.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.strongwell.com	Hubbell Quazite	♦ A ♦ B ♦ C ♦ D ♦ E	♦ PG1324B512 / PG1324H506 ♦ 2PG1324B512 / PG1324H506 ♦ PG1730B512 / PG1730H507 ♦ PG1730B517 / PG1730H507 ♦ PG1324B514 / PG1324H506
		Type D model number changed from 522 to 517. Same box. 522 acceptable to allow for boxes already in stock, until Oct.2008. Cover For Type A, B & E Cover For Type C & D	♦ PG1324H5064A (Danger High Voltage FTM) ♦ PG1324H5064B (Danger High Voltage Irrigation) ♦ PG1324H5064D(Danger High Voltage Illumination) ♦ PG1324H5064E (Danger High Voltage Traffic Signal) ♦ PG1324H5064G (Danger High Voltage Sign Lighting) ♦ PG1324H506H7 (Danger High Voltage) ♦ PG1730H5074A (Danger High Voltage FTM) ♦ PG1730H5064B (Danger High Voltage Irrigation) ♦ PG1730H5074D (Danger High Voltage Illumination) ♦ PG1730H5074E (Danger High Voltage Traffic Signal) ♦ PG1730H5074G (Danger High Voltage Sign Lighting) ♦ PG1730H507H7 (Danger High Voltage)

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Armorcast Products Company 13230 Saticoy St. North Hollywood, CA. 91605 (818) 982-3600 http://www.armorcastprod.com/	Armor cast	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For All Boxes	<ul style="list-style-type: none"> ◆ A6001946TAPCX12 ◆ A6001946TAPCX24 ◆ A6001640TAPCX12 ◆ A6001640TAPCX22 ◆ A6001946TAPCX18 <ul style="list-style-type: none"> ◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
NewBasis 2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747 http://www.newbasis.com/	NewBasis	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ PCB132412G482 ◆ (2) PCB132412G482
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PCC1324DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1324DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PCC1730DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1730DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1730DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1730DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Synertech Moulded Products 2 Inverness St. Candiac, Quebec Canada J5R 4WS Toll Free (888) 868-5214 http://www.synertechproducts.com * Notice: As of February 2007 – Synertech is trying to determine whether to continue manufacturing boxes for TxDOT.	Synertech	♦ A * ♦ B * ♦ C * ♦ D * ♦ E *	♦ S132412HH90 ♦ S132424HH90 ♦ S173012HH90 ♦ S173024HH90 ♦ S132418HH90
		Cover For Type A, B & E	♦ S1324HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNAL ♦ S1324HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ♦ S1324HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ♦ S1324HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	♦ S1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ♦ S1730HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ♦ S1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ♦ S1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Carson Industries, LLC. 1160 Nicole Court Glendora, CA. 91740 (800) 735-5566 (909) 592-6272 http://www.carsonind.com/	Carson	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ 13242030 ◆ 13242032
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ 17302061 ◆ 17302063 ◆ 13242031
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 13244156- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 13244158- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 13244171- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 13244170- DANGER HIGH VOLTAGE/LANDSCAPE
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 17304185- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 17304183- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 17304249- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 17305021- DANGER HIGH VOLTAGE/LANDSCAPE

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
CDR Systems Corporation 146 South Atlantic Ave. Ormond Beach, FL. 32176 (386) 615-9510 http://www.cdrcsystems.com/	cdr	◆ A	◆ SB14-1324-12-0287
		◆ B	◆ SB14-1324-12-0287 -2 boxes stacked
		◆ C	◆ SB14-1730-12-0494
		◆ D	◆ SC14-1730-22-0499
		◆ E	◆ SB14-1324-18-0288
		Cover For Type A, B & E	◆ SC12-1324-02
		Cover For Type C & D	◆ SC12-1730-02
		Cover For All Boxes	◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Item 628 – Electrical Service

General

The following products have been tested and are pre-qualified for use on projects where Electrical Services are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Electrical Service			
Manufacturer	Brand	Type	Model
Electrol Systems 10623 Sentinel Drive San Antonio, TX 78217 (210) 599-6485 (888) 853-8944 http://www.electrolsystems.com/	Electrol	<ul style="list-style-type: none"> ◆ A ◆ C ◆ C- Auxiliary Only ◆ D ◆ T- Auxiliary Only ◆ T-All in One ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ ELECTROL TYPE A-TXDOT ◆ ELECTROL TYPE C-TXDOT ◆ ELECTROL TYPE C- Auxiliary Only – TXDOT ◆ ELECTROL TYPE D-TXDOT ◆ ELECTROL TYPE T- Auxiliary Only - TXDOT ◆ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT ◆ ELECTROL TYPE A-PEDESTAL-TXDOT ◆ ELECTROL TYPE D-PEDESTAL-TXDOT
S&J Electric PO Box 121516 Ft Worth, TX 76121 (817) 560-0000 http://www.sj-electric.com/index.html	Stanfield Enterprises Inc.	<ul style="list-style-type: none"> ◆ A ◆ A-Pedestal ◆ C ◆ C- Auxiliary Only ◆ D ◆ D-Pedestal ◆ T- Auxiliary Only ◆ T-All in One 	<ul style="list-style-type: none"> ◆ STANFIELD ENTERPRISE INC. TYPE A-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE A-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C- Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
WE Manufacturing 5535 Harvey Wilson Drive Houston , TX 77020 (713) 676-2298 (800) 880-9453 http://www.wemanufacturing.com/	WE	<ul style="list-style-type: none"> ◆ A ◆ C ◆ C- Auxiliary Only ◆ D ◆ T- Auxiliary Only ◆ T-All in One ◆ A - Pedestal 	<ul style="list-style-type: none"> ◆ WE TYPE A-TXDOT ◆ WE TYPE C-TXDOT ◆ WE TYPE C- Auxiliary Only –TXDOT ◆ WE TYPE D-TXDOT ◆ WE TYPE T- Auxiliary Only –TXDOT ◆ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ WE TYPE A- PEDESTAL - TXDOT
Mica Corporation P.O. Box 161609 Fort Worth , TX 77020 (817) 847-6121 (817) 577-2088	Mica	<ul style="list-style-type: none"> ◆ A ◆ C ◆ D ◆ T- Auxiliary Only ◆ T-All in One 	<ul style="list-style-type: none"> ◆ MICA TYPE A-TXDOT ◆ MICA TYPE C-TXDOT ◆ MICA TYPE D-TXDOT ◆ MICA TYPE T- Auxiliary Only –TXDOT ◆ MICA TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Specialty Control Systems 629 SH 3 League City , TX 77573 (281) 332-0999 http://www.specialtycontrol.com/	SCS	<ul style="list-style-type: none"> ◆ A ◆ D ◆ T-All in One ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ SCS TYPE A-TXDOT ◆ SCS TYPE D-TXDOT ◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ SCS TYPE D-PEDESTAL-TXDOT
Tesco Controls, Inc. 3434 52 nd Ave. Sacramento , CA 95823 (916) 395-8800 http://www.tescocontrols.com/home.htm	Tesco	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ C-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240) ◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480) ◆ TESCO TYPE C-PEDESTAL-TXDOT ◆ TESCO TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Love Electric, Inc. 3128 Spur 124. Tyler , TX 75707 (903) 592-7561	Love	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ A 	<ul style="list-style-type: none"> ◆ LEI TYPE A-PEDESTAL-TXDOT (120/240) ◆ LEI TYPE A-PEDESTAL-TXDOT (240/480) ◆ LEI TYPE A-TXDOT
Myers Power Products, Inc. 725 E. Harrison St. Corona , CA 92879 (951) 520-1900 (866) 696-9377 http://www.myerspwrproducts.com	Myers	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ MEUG16 TYPE A-PEDESTAL-TXDOT ◆ MEUG16 TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Tri-State Electric, Ltd. 4604 Titanic Ave. El Paso , TX 79904 (915) 755-8803	Tri-State	◆ A	◆ TS1000 TYPE A-TXDOT
Associated Starters & Controls 310 Breesport, Ste. D San Antonio , TX 78216 (210) 798-1334 (888) 798-1334	ASC	◆ A ◆ D	◆ ASC TYPE A-TXDOT ◆ ASC TYPE D-TXDOT

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 or ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI

**Roadway Illumination and Electrical Supplies
Table of Contents**

Materials Pre-qualified for Illumination and Electrical items 610-628
No additional submittals are required for products that are pre-qualified

	<u>Page</u>
Item 610 – Roadway Illumination Assemblies.....	2
Item 613 – High Mast Illumination Pole.....	12
Item 614 – High Mast Illumination Assemblies.....	13
Item 618 – Conduit..... (Includes fittings, junction boxes and expansion joints - Future)	18
Item 620 – Electrical Conductors..... (Includes fuse holders) (and applicable parts for making splices - Future)	24
Item 621 – Tray Cable.....	27
Item 622 – Duct Cable.....	29
Item 624 – Ground Boxes.....	31
Item 628 – Electrical Services.....	37

Notice:

All submittal and corresponding documentation becomes public information.
All manufacturers' products that are listed within this document are pre-qualified.
TxDOT reserves the right to remove any manufacturer or product from this list, at any time. Manufacturers interested in being added to the pre-qualified list should contact Traffic Operations Division.

Item 610 – Roadway Illumination Assemblies

General

The following products are pre-qualified for use on the projects where roadway illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	◆ Induction Fluorescent Underpass Fixture	◆ UDP-165-QL-GR
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	◆ Induction Fluorescent Underpass Fixture	◆ TS2020-3/3-1-150IND- 277V-R-SSPH-TEXAS
ESCO Lighting 3254 N. Kilborn Ave. Chicago, IL 60641 (773) 427-7000 http://www.escolighting.com	ESCO	◆ Induction Fluorescent Underpass Fixture	◆ SP2343

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
<p>H.E. Williams</p> <p>831 W. Fairview Ave. P.O. Box 837 Carthage, MO 64836 (417) 358-4065</p> <p>http://www.hew.com</p>	<p>Infinity</p>	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture ◆ BB Box Beam ◆ BD Bridge Deck ◆ UB U-Beam 	<ul style="list-style-type: none"> ◆ ICERL1-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL3-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL5-150S-41K-BAT/CG1-14DEG-UNV <p>New Part Numbers – Same Fixture – October 2006 Old Part Numbers (ICEDC) Phased Out</p>
<p>Cooper</p> <p>1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800</p> <p>http://www.cooperlighting.com</p>	<p>Fail-Safe</p>	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ TF28-150ICE-UNV-A1432

Roadway Illumination Assemblies – Luminaire			
Manufacturer	Brand	Type	Model
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Streetworks	<ul style="list-style-type: none"> ◆ 150W HPS- 240/480 Volt ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ OVW15SMJ3DD0004 ◆ OVW25SMG2DD0001 ◆ OVW25SMJ2DD0002 ◆ OVW40SMG2DD0005 ◆ OVW40SMJ2DD0003
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingssystem.com	M4RC	<ul style="list-style-type: none"> ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ M4RC25S7M4GSC2311 or GE Manufacture #168025 ◆ M4RC25S9M4GSC2311 or GE Manufacture #168023 ◆ M4RC40S7M4GSC3311 or GE Manufacture #157785 ◆ M4RC40S9M4GSC3311 or GE Manufacture #158165

Item 610 – Roadway Illumination Assemblies

General

Roadway Illumination Poles do not need to be pre-qualified when TxDOT RIP-07(Roadway Illumination Poles -2007) standard sheets are included in the plan set.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of Item 610 and applicable Special Provisions to Item 610.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP-07 (Roadway Illumination Poles -2007). Poles fabricated according to RIP-07 require no shop drawings.

Alternate designs to RIP-07 or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on submitting shop drawings electronically go to:

<http://www.dot.state.tx.us/publications/bridge.htm>

File is titled: Guide to Electronic Shop Drawing Submittal.

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Hapco 26252 Hillman Highway Abingdon, VA 24210 (800) 368-7171 http://www.hapco.com/		<ul style="list-style-type: none"> ◆ 40 Ft.-Aluminum with 8Ft. Arm Only 	<ul style="list-style-type: none"> ◆ Based on Drawing # B82627 and B83058
Whitco Poles 7700 Wyatt Drive Ft. Worth, TX 76108 (800) 433-7753 http://www.whitcoples.com		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # TX-DOT-003 ◆ Based on Drawing # TX-DOT-001 ◆ Based on Drawing # TX-DOT-002

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Millerbernd Manufacturing, Co. 622 6th. Street South P.O. Box 98 Winsted, MN 55395 (320) 485-2111 http://www.millerberndmfg.com		◆ 30 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B588 Sheet 1 of 1 Revision Date 6-15-05
		◆ 40 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B586 Sheet 1 of 1 Revision Date 6-3-05
		◆ 50 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B587 Sheet 1 of 1 Revision Date 6-3-05
		◆ 30 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B694 Sheet 1 of 1 Revision Date 9-26-05
		◆ 40 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B691 Sheet 1 of 1 Revision Date 9-26-05
		◆ 50 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B693 Sheet 1 of 1 Revision Date 9-26-05
		◆ 30 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B589 Sheet 1 of 1 Revision Date 6-28-05
		◆ 40 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B590 Sheet 1 of 1 Revision Date 6-28-05
		◆ 50 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B591 Sheet 1 of 1 Revision Date 6-28-05
		◆ 30 Ft.-Requisition Pole	◆ Based on Drawing # 730B707 Sheet 1 of 1 Date 7-13-05
		◆ 40 Ft.-Requisition Pole	◆ Based on Drawing # 730B643 Sheet 1 of 1 Revision Date 6-16-05
		◆ 50 Ft.-Requisition Pole	◆ Based on Drawing # 730B644 Sheet 1 of 1 Revision Date 6-16-05

High Pressure Sodium Lamps			
Manufacturer	Brand	Type	Model
Osram Sylvania 100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828 http://www.sylvania.com/	Sylvania - Lumalux Plus®/ECO	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 67312 - LU400/PLUS/ECO ◆ 67572 - LU250/PLUS/ECO ◆ 67494 - LU150/55/PLUS/ECO

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394-2877 http://www.bussmann.com/	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 0LEXYYSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>

Item 613 – High Mast Illumination Poles

General

There are no pre-qualified High Mast Illumination Poles.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of item 613. Provide components that fit together properly.

- (a) **Alternate Design.** Approval must be obtained for alternate designs. Obtain approval to eliminate the ground sleeve (with associated changes to the base plate bolt circle) or to significantly modify the access hole ring by testing a full-scale specimen of the base section. Support the specimen at the base plate on double-nutted anchor bolts. Load the specimen to produce maximum compression on the access hole ring. Provide test results that clearly demonstrate the specimen can develop the factored moment capacity (load factor of 1.38 multiplied by wind factor of 1.4 multiplied by F_b) which is approximately the full plastic bending capacity. Once a fabricator obtains approval for modified details, this approval extends to all future TxDOT projects.
- (b) **Shop Drawings.** Do not provide shop drawings for high mast illumination poles fabricated in accordance with this Item and the plans. Provide shop drawings for alternate designs. The submission of shop drawings is only required the first time each alternate design is used. Submit seven sets of shop drawings to the Bridge Division.

Item 614 – High Mast Illumination Assemblies

General

The following products are pre-qualified for use on the projects where high mast illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Luminaire – High Mast			
Manufacturer	Brand	Type	Model
Holophane 214 Oakwood Ave. Newark, OH 43055 (740) 345-9631 (512) 791-7982 http://www.holophane.com	High Mast Cutoff-HMSC High Mast Dark Skies-HMSD	<ul style="list-style-type: none"> ◆ High Mast – Type B ◆ High Mast – Type S Type A and C Removed From List. 4-26-07	<ul style="list-style-type: none"> ◆ HMSC40RHP48BTX03 ◆ HMSD40RHP48STX03 Type A and C Removed From List. 4-26-07
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingsystems.com	G.E.	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ 159189 ◆ 159190 ◆ 159191 ◆ 159193
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Streetworks	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ GMA40SM83DD0018 ◆ GMA40SM83DD0019 ◆ GMA40SM83DD0020 ◆ GMA40SM8ARD0017

High Mast Kit

Manufacturer	Brand	Type	Model
Mica Corporation 5750 N. Riverside Dr. Fort Worth, TX 76137 (817) 577-2088 http://www.micacorporation.com	Mica Corporation	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-PH ♦ HMK-150-PH ♦ HMK -175-PH
Carolina High Mast, Inc. 700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046	Carolina High Mast, Inc.	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-CHMI ♦ HMK-150-CHMI ♦ HMK -175-CHMI
Rexel 2400 Brockton San Antonio, TX 78217 (210) 352-1047 http://www.rexelusa.com	Rexel	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-RX ♦ HMK-150-RX ♦ HMK -175-RX

High Mast Kit

Manufacturer	Brand	Type	Model
Wildcat Electric Supply, Ltd. 2061 Clovis Barker Road #5. San Marcos, TX 77666 (512) 396-8900 (866) 301-5200 http://www.wildcatelectric.com	Wildcat	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-WC ♦ HMK-150-WC ♦ HMK -175-WC

High Mast Ring- Previously Approved Shop Drawings

Manufacturer		Type	
<p>J.W. Hall Enterprises, Inc.</p> <p>17731 Elizabeth Rd. Algoa, TX 77511 (281) 337-6311</p> <p>http://www.jwhall.com</p>		<p>◆ High Mast Ring</p> <p>Drawing # HM 2002-01 Sheets 1 through 6 Drawing # HE 2002 Sheets 7 through 9</p>	
<p>Carolina High Mast, Inc.</p> <p>700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046</p>		<p>◆ High Mast Ring</p> <p>Drawing # TXDOT-01 Sheets 1 through 5 Drawing # TXDOT-02 Sheets 1 through 4 Drawing # TXDOT-03 Sheets 1 through 4 Drawing # TXDOT-04 Sheets 1 through 3</p>	
<p>Traffic Control Devices</p> <p>4417 Main Street Pearland, TX 77581 (281) 992-3030</p> <p>http://www.tcd.cc</p>		<p>◆ High Mast Ring</p> <p>Drawing # E-901 Sheets 1 through 10</p>	

High Mast Ring- Previously Approved Shop Drawings			
Manufacturer		Type	
Brookfield Fabricating Corp. Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214		♦ High Mast Ring Drawings Dated 4-8-96 Sheets 1 through 4	
PKM Steel Service 228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638 http://www.pkmsteel.com/		♦ High Mast Ring Sheet E1 Dated 8-2-05 Sheet 1 Dated 10-12-05 Sheet 2 Dated 10-12-05 Sheet 3 Dated 10-12-05	

Item 618 – Conduit

General

The following products have been tested and are pre-qualified for use on projects where Conduit, Junction Boxes, Expansion Joints and Conduit Fittings are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Rigid Metallic Conduit – (RMC)			
Manufacturer	Brand	Type	Model
Allied 16100 S. Lathrop Avenue Harvey, IL 60426-6021 (800) 882-5543 http://www.alliedtube.com	Allied	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
Wheatland 900 Haddon Avenue P.O. Box 600 Collingswood, NJ 08108-0600 (800) 257-8182 http://www.wheatland.com/	Wheatland	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)			
Manufacturer	Brand	Type	Model
Cantex P.O. Box 340 Mineral Wells, TX 76068 (940) 325-3344 (800) 433-5623 http://www.cantexinc.com/	Cantex	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Georgia Pipe Company 1206 Sunset Drive P.O. Box 2235 Thomasville, GA 31799 (229) 226-7337 http://www.alliedtube.com/	Georgia Pipe	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	J-M PVC Conduits	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Lansom & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlon	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)

Manufacturer	Brand	Type	Model
National Pipe & Plastics, Inc. 3421 Old Vestal Road Vestal, NY 13850 (800) 836-4350 http://www.nationalpipe.com/	NPPI PVC	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791 http://www.heritageplastics.com/	Heritage	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
PW Eagle, Inc. P.O. Box 10049 Eugene, OR 97477 (800) 347-0200 http://www.pweaglepipe.com	PW Eagle	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Perma-Guard/ UL	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SW 400 050 N000-UL ◆ 3/4" SW 400 075 N000-UL ◆ 1" SW 400 100 N000-UL ◆ 2" SW 400 200 N000-UL ◆ 3" SW 400 300 N000-UL
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line – Smoothwall	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SCH-40 (0538-11007-0000000) ◆ 3/4" SCH-40 (0738-11007-0000000) ◆ 1" SCH-40 (1038-11007-0000000) ◆ 1.25" SCH-40 (1238-11007-0000000) ◆ 1.50" SCH-40 (1538-11007-0000000) ◆ 2" SCH-40 (2038-11007-0000000) ◆ 3" SCH-40 (3038-11007-0000000) ◆ 4" SCH-40 (3538-11007-0000000) ◆ 5" SCH-40 (3638-11007-0000000) ◆ 6" SCH-40 (3738-11007-0000000)
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	HDPE ® - HDPE Duct/Inner Duct	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1 ¼" 1.25 7.5M S40 BLK ◆ 1 ½" 1.5 6M S40 BLK ◆ 2" 2 3M S40 BLK ◆ 3" 3 1M S40 BLK ◆ 4" 4 725M S40 BLK
Lamson & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlton/UL Listed HDPE	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" U2C4-UV ◆ 3/4" U3C4-UV ◆ 1" U5C4-UV ◆ 1 ¼" U6C4-UV ◆ 1 ½" U9C4-UV ◆ 2" U13C4-UV ◆ 3" U15C4-UV ◆ 4" U16C4-UV

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Rinker Materials P.O. Box 390 Gainsville, TX 76240 (800) 433-5632 http://www.rinker.com/	PolyPipe® HDPE Duct Pipe	♦ HDPE Conduit – Schedule 40 Color - Black	♦ PolyPipe® EHMW – PE3408 ½” to 4”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond HDPE	♦ HDPE Conduit – Schedule 40 Color - Black	♦ 1/2" BDI065BK-UL ♦ 3/4" BDI095BK-UL ♦ 1" BDI115BK-UL ♦ 1 ¼" BDI135BK-UL ♦ 1 ½" BDI165BK-UL ♦ 2" BDI215BK-UL ♦ 3" BDI315BK-UL ♦ 4" BDI414BK-UL

Precast Polymer Concrete Junction Box for Concrete Traffic Barrier			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.strongwell.com	Hubbell Quazite	♦ Median Barrier Box ♦ Median Barrier Box – for Concrete Barrier (F-Shape)	♦ PC1012B500/PC1012CA00 ♦ PC0516B500/PC0516CA00

Item 620 – Conductors

General

The following products are pre-qualified for use on projects where Conductors are furnished or installed as required by the item descriptive code. Where splicing materials, insulating materials, GelCaps, fuse holders or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil ◆ 6 AWG & 8AWG Available in Black Only
Encore Wire 1410 Millwood Rd. McKinney, TX 75069 (800) 962-9473 http://www.encorewire.com/	Encore	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 1000 kcmil
Service Wire Company Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil ♦ 6 AWG & 8AWG Available in Black Only
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394 2877 http://www.bussmann.com/	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. To be used when TxDOT Standards RIP-07 and RID-07 sheets are in plan set.</p>
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 0LEXYYSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>

Item 621 – Tray Cable

General

The following products are pre-qualified for use on projects where Tray Cable is furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 500 kcmil
Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 750 kcmil
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 500 kcmil

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ Tray Cable – Power Cable – XLP XHHW Insulation, PVC Jacket, Copper Conductors	♦ Available in 12 AWG -3 and 4 conductor

Item 622 – Duct Cable

General

The following products are pre-qualified for use on projects where Duct Cable is furnished or installed as required by the item descriptive code. Where connectors are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Arnco	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (800) 233-3190 http://www.drakausa.com	Draka	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Item 624 – Ground Boxes

General

The following products are pre-qualified for use on projects where Ground Boxes are furnished or installed as required by descriptive code. Products are subject to testing. No substitutions will be allowed for Types A through E as listed below. For types not listed below, applicable TxDOT standards and specifications will apply.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.strongwell.com	Hubbell Quazite	♦ A ♦ B ♦ C ♦ D ♦ E	♦ PG1324B512 / PG1324H506 ♦ 2PG1324B512 / PG1324H506 ♦ PG1730B512 / PG1730H507 ♦ PG1730B517 / PG1730H507 ♦ PG1324B514 / PG1324H506
		Type D model number changed from 522 to 517. Same box. 522 acceptable to allow for boxes already in stock, until Oct.2008. Cover For Type A, B & E	♦ PG1324H5064A (Danger High Voltage FTM) ♦ PG1324H5064B (Danger High Voltage Irrigation) ♦ PG1324H5064D(Danger High Voltage Illumination) ♦ PG1324H5064E (Danger High Voltage Traffic Signal) ♦ PG1324H5064G (Danger High Voltage Sign Lighting) ♦ PG1324H506H7 (Danger High Voltage)
		Cover For Type C & D	♦ PG1730H5074A (Danger High Voltage FTM) ♦ PG1730H5064B (Danger High Voltage Irrigation) ♦ PG1730H5074D (Danger High Voltage Illumination) ♦ PG1730H5074E (Danger High Voltage Traffic Signal) ♦ PG1730H5074G (Danger High Voltage Sign Lighting) ♦ PG1730H507H7 (Danger High Voltage)

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Armorcast Products Company 13230 Saticoy St. North Hollywood, CA. 91605 (818) 982-3600 http://www.armorcastprod.com/	Armor cast	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For All Boxes	<ul style="list-style-type: none"> ◆ A6001946TAPCX12 ◆ A6001946TAPCX24 ◆ A6001640TAPCX12 ◆ A6001640TAPCX22 ◆ A6001946TAPCX18 <ul style="list-style-type: none"> ◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
NewBasis 2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747 http://www.newbasis.com/	NewBasis	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ PCB132412G482 ◆ (2) PCB132412G482
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PCC1324DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1324DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PCC1730DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1730DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1730DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1730DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Synertech Moulded Products 2 Inverness St. Candiac, Quebec Canada J5R 4WS Toll Free (888) 868-5214 http://www.synertechproducts.com	Synertech	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ S132412HH90 ◆ S132424HH90 ◆ S173012HH90 ◆ S173024HH90 ◆ S132418HH90
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ S1324HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNAL ◆ S1324HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1324HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1324HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ S1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ S1730HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Carson Industries, LLC. 1160 Nicole Court Glendora, CA. 91740 (800) 735-5566 (909) 592-6272 http://www.carsonind.com/	Carson	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ 13242030 ◆ 13242032
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ 17302061 ◆ 17302063 ◆ 13242031
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 13244156- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 13244158- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 13244171- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 13244170- DANGER HIGH VOLTAGE/LANDSCAPE
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 17304185- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 17304183- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 17304249- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 17305021- DANGER HIGH VOLTAGE/LANDSCAPE

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
CDR Systems Corporation 146 South Atlantic Ave. Ormond Beach, FL. 32176 (386) 615-9510 http://www.cdrcsystems.com/	cdr	◆ A	◆ SB14-1324-12-0287
		◆ B	◆ SB14-1324-12-0287 -2 boxes stacked
		◆ C	◆ SB14-1730-12-0494
		◆ D	◆ SC14-1730-22-0499
		◆ E	◆ SB14-1324-18-0288
		Cover For Type A, B & E	◆ SC12-1324-02
		Cover For Type C & D	◆ SC12-1730-02
Cover For All Boxes	◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.		

Item 628 – Electrical Service

General

The following products have been tested and are pre-qualified for use on projects where Electrical Services are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Electrical Service			
Manufacturer	Brand	Type	Model
Electrol Systems 10623 Sentinel Drive San Antonio, TX 78217 (210) 599-6485 (888) 853-8944 http://www.electrolsystems.com/	Electrol	<ul style="list-style-type: none"> ◆ A ◆ C ◆ C- Auxiliary Only ◆ D ◆ T- Auxiliary Only ◆ T-All in One ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ ELECTROL TYPE A-TXDOT ◆ ELECTROL TYPE C-TXDOT ◆ ELECTROL TYPE C- Auxiliary Only – TXDOT ◆ ELECTROL TYPE D-TXDOT ◆ ELECTROL TYPE T- Auxiliary Only - TXDOT ◆ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT ◆ ELECTROL TYPE A-PEDESTAL-TXDOT ◆ ELECTROL TYPE D-PEDESTAL-TXDOT
S&J Electric PO Box 121516 Ft Worth, TX 76121 (817) 560-0000 http://www.sj-electric.com/index.html	Stanfield Enterprises Inc.	<ul style="list-style-type: none"> ◆ A ◆ A-Pedestal ◆ C ◆ C- Auxiliary Only ◆ D ◆ D-Pedestal ◆ T- Auxiliary Only ◆ T-All in One 	<ul style="list-style-type: none"> ◆ STANFIELD ENTERPRISE INC. TYPE A-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE A-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C- Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
WE Manufacturing 5535 Harvey Wilson Drive Houston , TX 77020 (713) 676-2298 (800) 880-9453 http://www.wemanufacturing.com/	WE	♦ A ♦ C ♦ C- Auxiliary Only ♦ D ♦ T- Auxiliary Only ♦ T-All in One ♦ A - Pedestal	♦ WE TYPE A-TXDOT ♦ WE TYPE C-TXDOT ♦ WE TYPE C- Auxiliary Only –TXDOT ♦ WE TYPE D-TXDOT ♦ WE TYPE T- Auxiliary Only –TXDOT ♦ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT ♦ WE TYPE A- PEDESTAL - TXDOT
Mica Corporation P.O. Box 161609 Fort Worth , TX 77020 (817) 847-6121 (817) 577-2088	Mica	♦ A ♦ C ♦ D ♦ T- Auxiliary Only ♦ T-All in One	♦ MICA TYPE A-TXDOT ♦ MICA TYPE C-TXDOT ♦ MICA TYPE D-TXDOT ♦ MICA TYPE T- Auxiliary Only –TXDOT ♦ MICA TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Specialty Control Systems 629 SH 3 League City , TX 77573 (281) 332-0999 http://www.specialtycontrol.com/	SCS	<ul style="list-style-type: none"> ◆ A ◆ D ◆ T-All in One ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ SCS TYPE A-TXDOT ◆ SCS TYPE D-TXDOT ◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ SCS TYPE D-PEDESTAL-TXDOT
Tesco Controls, Inc. 3434 52 nd Ave. Sacramento , CA 95823 (916) 395-8800 http://www.tescocontrols.com/home.htm	Tesco	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ C-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240) ◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480) ◆ TESCO TYPE C-PEDESTAL-TXDOT ◆ TESCO TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Love Electric, Inc. 3128 Spur 124. Tyler , TX 75707 (903) 592-7561	Love	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ A 	<ul style="list-style-type: none"> ◆ LEI TYPE A-PEDESTAL-TXDOT (120/240) ◆ LEI TYPE A-PEDESTAL-TXDOT (240/480) ◆ LEI TYPE A-TXDOT
Myers Power Products, Inc. 725 E. Harrison St. Corona , CA 92879 (951) 520-1900 (866) 696-9377 http://www.myerspwrproducts.com	Myers	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ MEUG16 TYPE A-PEDESTAL-TXDOT ◆ MEUG16 TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Tri-State Electric, Ltd. 4604 Titanic Ave. El Paso , TX 79904 (915) 755-8803	Tri-State	◆ A	◆ TS1000 TYPE A-TXDOT
Associated Starters & Controls 310 Breesport, Ste. D San Antonio , TX 78216 (210) 798-1334 (888) 798-1334	ASC	◆ A ◆ D	◆ ASC TYPE A-TXDOT ◆ ASC TYPE D-TXDOT

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 or ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI

**Roadway Illumination and Electrical Supplies
Table of Contents**

Materials Pre-qualified for Illumination and Electrical items 610-628
No additional submittals are required for products that are pre-qualified

	<u>Page</u>
Item 610 – Roadway Illumination Assemblies.....	2
Item 613 – High Mast Illumination Pole.....	12
Item 614 – High Mast Illumination Assemblies.....	13
Item 618 – Conduit..... (Includes fittings, junction boxes and expansion joints - Future)	18
Item 620 – Electrical Conductors..... (Includes fuse holders) (and applicable parts for making splices - Future)	24
Item 621 – Tray Cable.....	27
Item 622 – Duct Cable.....	29
Item 624 – Ground Boxes.....	31
Item 628 – Electrical Services.....	37

Notice:

All submittal and corresponding documentation becomes public information.
All manufacturers' products that are listed within this document are pre-qualified.
TxDOT reserves the right to remove any manufacturer or product from this list, at any time. Manufacturers interested in being added to the pre-qualified list should contact Traffic Operations Division.

Item 610 – Roadway Illumination Assemblies

General

The following products are pre-qualified for use on the projects where roadway illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	♦ Induction Fluorescent Underpass Fixture	♦ UDP-165-QL-GR
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	♦ Induction Fluorescent Underpass Fixture – Steel Housing ♦ Induction Fluorescent Underpass Fixture – Aluminum Housing	♦ TS2020-3/3-1-150IND- 277V-R-SSPH-TEXAS ♦ TS2020-*/*-150IND- *Volt-8-SSPH-TDOT- ALUMINUM
ESCO Lighting 3254 N. Kilborn Ave. Chicago, IL 60641 (773) 427-7000 http://www.escolighting.com	ESCO	♦ Induction Fluorescent Underpass Fixture	♦ SP2343

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
H.E. Williams 831 W. Fairview Ave. P.O. Box 837 Carthage, MO 64836 (417) 358-4065 http://www.hew.com	Infinity	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture ◆ BB Box Beam ◆ BD Bridge Deck ◆ UB U-Beam 	<ul style="list-style-type: none"> ◆ ICERL1-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL3-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL5-150S-41K-BAT/CG1-14DEG-UNV <p style="margin-top: 20px;">New Part Numbers – Same Fixture – October 2006 Old Part Numbers (ICEDC) Phased Out</p>
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Fail-Safe	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ TF28-150ICE-UNV-A1432

Roadway Illumination Assemblies – Luminaire			
Manufacturer	Brand	Type	Model
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Streetworks	<ul style="list-style-type: none"> ◆ 150W HPS- 240/480 Volt ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ OVW15SMJ3DD0004 ◆ OVW25SMG2DD0001 ◆ OVW25SMJ2DD0002 ◆ OVW40SMG2DD0005 ◆ OVW40SMJ2DD0003
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingssystem.com	M4RC	<ul style="list-style-type: none"> ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ M4RC25S7M4GSC2311 or GE Manufacture #168025 ◆ M4RC25S9M4GSC2311 or GE Manufacture #168023 ◆ M4RC40S7M4GSC3311 or GE Manufacture #157785 ◆ M4RC40S9M4GSC3311 or GE Manufacture #158165

Item 610 – Roadway Illumination Assemblies

General

Roadway Illumination Poles do not need to be pre-qualified when TxDOT RIP-07(Roadway Illumination Poles -2007) standard sheets are included in the plan set.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of Item 610 and applicable Special Provisions to Item 610.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP-07 (Roadway Illumination Poles -2007). Poles fabricated according to RIP-07 require no shop drawings.

Alternate designs to RIP-07 or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on submitting shop drawings electronically go to:

<http://www.dot.state.tx.us/publications/bridge.htm>

File is titled: Guide to Electronic Shop Drawing Submittal.

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Hapco 26252 Hillman Highway Abingdon, VA 24210 (800) 368-7171 http://www.hapco.com/		<ul style="list-style-type: none"> ◆ 40 Ft.-Aluminum with 8Ft. Arm Only 	<ul style="list-style-type: none"> ◆ Based on Drawing # B82627 and B83058
Whitco Poles 7700 Wyatt Drive Ft. Worth, TX 76108 (800) 433-7753 http://www.whitcoples.com		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # TX-DOT-003 ◆ Based on Drawing # TX-DOT-001 ◆ Based on Drawing # TX-DOT-002

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Millerbernd Manufacturing, Co. 622 6th. Street South P.O. Box 98 Winsted, MN 55395 (320) 485-2111 http://www.millerberndmfg.com		◆ 30 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B588 Sheet 1 of 1 Revision Date 6-15-05
		◆ 40 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B586 Sheet 1 of 1 Revision Date 6-3-05
		◆ 50 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B587 Sheet 1 of 1 Revision Date 6-3-05
		◆ 30 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B694 Sheet 1 of 1 Revision Date 9-26-05
		◆ 40 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B691 Sheet 1 of 1 Revision Date 9-26-05
		◆ 50 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B693 Sheet 1 of 1 Revision Date 9-26-05
		◆ 30 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B589 Sheet 1 of 1 Revision Date 6-28-05
		◆ 40 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B590 Sheet 1 of 1 Revision Date 6-28-05
		◆ 50 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B591 Sheet 1 of 1 Revision Date 6-28-05
		◆ 30 Ft.-Requisition Pole	◆ Based on Drawing # 730B707 Sheet 1 of 1 Date 7-13-05
		◆ 40 Ft.-Requisition Pole	◆ Based on Drawing # 730B643 Sheet 1 of 1 Revision Date 6-16-05
		◆ 50 Ft.-Requisition Pole	◆ Based on Drawing # 730B644 Sheet 1 of 1 Revision Date 6-16-05

High Pressure Sodium Lamps			
Manufacturer	Brand	Type	Model
Osram Sylvania 100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828 http://www.sylvania.com/	Sylvania - Lumalux Plus®/ECO	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 67312 - LU400/PLUS/ECO ◆ 67572 - LU250/PLUS/ECO ◆ 67494 - LU150/55/PLUS/ECO

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394-2877 http://www.bussmann.com/	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 0LEXYYSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>

Item 613 – High Mast Illumination Poles

General

There are no pre-qualified High Mast Illumination Poles.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of item 613. Provide components that fit together properly.

- (a) **Alternate Design.** Approval must be obtained for alternate designs. Obtain approval to eliminate the ground sleeve (with associated changes to the base plate bolt circle) or to significantly modify the access hole ring by testing a full-scale specimen of the base section. Support the specimen at the base plate on double-nutted anchor bolts. Load the specimen to produce maximum compression on the access hole ring. Provide test results that clearly demonstrate the specimen can develop the factored moment capacity (load factor of 1.38 multiplied by wind factor of 1.4 multiplied by F_b) which is approximately the full plastic bending capacity. Once a fabricator obtains approval for modified details, this approval extends to all future TxDOT projects.
- (b) **Shop Drawings.** Do not provide shop drawings for high mast illumination poles fabricated in accordance with this Item and the plans. Provide shop drawings for alternate designs. The submission of shop drawings is only required the first time each alternate design is used. Submit seven sets of shop drawings to the Bridge Division.

Item 614 – High Mast Illumination Assemblies

General

The following products are pre-qualified for use on the projects where high mast illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Luminaire – High Mast			
Manufacturer	Brand	Type	Model
Holophane 214 Oakwood Ave. Newark, OH 43055 (740) 345-9631 (512) 791-7982 http://www.holophane.com	High Mast Cutoff-HMSC High Mast Dark Skies-HMSD	◆ High Mast – Type B ◆ High Mast – Type S Type A and C Removed From List. 4-26-07	◆ HMSC40RHP48BTX03 ◆ HMSD40RHP48STX03 Type A and C Removed From List. 4-26-07
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingsystems.com	G.E.	◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S	◆ 159189 ◆ 159190 ◆ 159191 ◆ 159193
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Streetworks	◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S	◆ GMA40SM83DD0018 ◆ GMA40SM83DD0019 ◆ GMA40SM83DD0020 ◆ GMA40SM8ARD0017

High Mast Kit

Manufacturer	Brand	Type	Model
Mica Corporation 5750 N. Riverside Dr. Fort Worth, TX 76137 (817) 577-2088 http://www.micacorporation.com	Mica Corporation	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-PH ♦ HMK-150-PH ♦ HMK -175-PH
Carolina High Mast, Inc. 700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046	Carolina High Mast, Inc.	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-CHMI ♦ HMK-150-CHMI ♦ HMK -175-CHMI
Rexel 2400 Brockton San Antonio, TX 78217 (210) 352-1047 http://www.rexelusa.com	Rexel	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-RX ♦ HMK-150-RX ♦ HMK -175-RX

High Mast Kit

Manufacturer	Brand	Type	Model
Wildcat Electric Supply, Ltd. 2061 Clovis Barker Road #5. San Marcos, TX 77666 (512) 396-8900 (866) 301-5200 http://www.wildcatelectric.com	Wildcat	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-WC ◆ HMK-150-WC ◆ HMK -175-WC

High Mast Ring- Previously Approved Shop Drawings

Manufacturer		Type	
<p>J.W. Hall Enterprises, Inc.</p> <p>17731 Elizabeth Rd. Algoa, TX 77511 (281) 337-6311</p> <p>http://www.jwhall.com</p>		<p>◆ High Mast Ring</p> <p>Drawing # HM 2002-01 Sheets 1 through 6 Drawing # HE 2002 Sheets 7 through 9</p>	
<p>Carolina High Mast, Inc.</p> <p>700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046</p>		<p>◆ High Mast Ring</p> <p>Drawing # TXDOT-01 Sheets 1 through 5 Drawing # TXDOT-02 Sheets 1 through 4 Drawing # TXDOT-03 Sheets 1 through 4 Drawing # TXDOT-04 Sheets 1 through 3</p>	
<p>Traffic Control Devices</p> <p>4417 Main Street Pearland, TX 77581 (281) 992-3030</p> <p>http://www.tcd.cc</p>		<p>◆ High Mast Ring</p> <p>Drawing # E-901 Sheets 1 through 10</p>	

High Mast Ring- Previously Approved Shop Drawings			
Manufacturer		Type	
Brookfield Fabricating Corp. Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214		♦ High Mast Ring Drawings Dated 4-8-96 Sheets 1 through 4	
PKM Steel Service 228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638 http://www.pkmsteel.com/		♦ High Mast Ring Sheet E1 Dated 8-2-05 Sheet 1 Dated 10-12-05 Sheet 2 Dated 10-12-05 Sheet 3 Dated 10-12-05	

Item 618 – Conduit

General

The following products have been tested and are pre-qualified for use on projects where Conduit, Junction Boxes, Expansion Joints and Conduit Fittings are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Rigid Metallic Conduit – (RMC)			
Manufacturer	Brand	Type	Model
Allied 16100 S. Lathrop Avenue Harvey, IL 60426-6021 (800) 882-5543 http://www.alliedtube.com	Allied	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
Wheatland 900 Haddon Avenue P.O. Box 600 Collingswood, NJ 08108-0600 (800) 257-8182 http://www.wheatland.com/	Wheatland	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)			
Manufacturer	Brand	Type	Model
Cantex P.O. Box 340 Mineral Wells, TX 76068 (940) 325-3344 (800) 433-5623 http://www.cantexinc.com/	Cantex	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Georgia Pipe Company 1206 Sunset Drive P.O. Box 2235 Thomasville, GA 31799 (229) 226-7337 http://www.alliedtube.com/	Georgia Pipe	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	J-M PVC Conduits	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Lansom & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlon	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)

Manufacturer	Brand	Type	Model
National Pipe & Plastics, Inc. 3421 Old Vestal Road Vestal, NY 13850 (800) 836-4350 http://www.nationalpipe.com/	NPPI PVC	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791 http://www.heritageplastics.com/	Heritage	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
PW Eagle, Inc. P.O. Box 10049 Eugene, OR 97477 (800) 347-0200 http://www.pweaglepipe.com	PW Eagle	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Perma-Guard/ UL	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SW 400 050 N000-UL ◆ 3/4" SW 400 075 N000-UL ◆ 1" SW 400 100 N000-UL ◆ 2" SW 400 200 N000-UL ◆ 3" SW 400 300 N000-UL
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line – Smoothwall	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SCH-40 (0538-11007-0000000) ◆ 3/4" SCH-40 (0738-11007-0000000) ◆ 1" SCH-40 (1038-11007-0000000) ◆ 1.25" SCH-40 (1238-11007-0000000) ◆ 1.50" SCH-40 (1538-11007-0000000) ◆ 2" SCH-40 (2038-11007-0000000) ◆ 3" SCH-40 (3038-11007-0000000) ◆ 4" SCH-40 (3538-11007-0000000) ◆ 5" SCH-40 (3638-11007-0000000) ◆ 6" SCH-40 (3738-11007-0000000)
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	HDPE ® - HDPE Duct/Inner Duct	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1 ¼" 1.25 7.5M S40 BLK ◆ 1 ½" 1.5 6M S40 BLK ◆ 2" 2 3M S40 BLK ◆ 3" 3 1M S40 BLK ◆ 4" 4 725M S40 BLK
Lamson & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlton/UL Listed HDPE	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" U2C4-UV ◆ 3/4" U3C4-UV ◆ 1" U5C4-UV ◆ 1 ¼" U6C4-UV ◆ 1 ½" U9C4-UV ◆ 2" U13C4-UV ◆ 3" U15C4-UV ◆ 4" U16C4-UV

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Rinker Materials P.O. Box 390 Gainsville, TX 76240 (800) 433-5632 http://www.rinker.com/	PolyPipe® HDPE Duct Pipe	♦ HDPE Conduit – Schedule 40 Color - Black	♦ PolyPipe® EHMW – PE3408 ½” to 4”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond HDPE	♦ HDPE Conduit – Schedule 40 Color - Black	♦ 1/2" BDI065BK-UL ♦ 3/4" BDI095BK-UL ♦ 1" BDI115BK-UL ♦ 1 ¼" BDI135BK-UL ♦ 1 ½" BDI165BK-UL ♦ 2" BDI215BK-UL ♦ 3" BDI315BK-UL ♦ 4" BDI414BK-UL

Precast Polymer Concrete Junction Box for Concrete Traffic Barrier			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.strongwell.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ Median Barrier Box ◆ Median Barrier Box – for Concrete Barrier (F-Shape) ◆ Junction Box w/Cover OD – 9 X 11 X 7 ¼” ID – 7 ⅜ X 9 ⅜ X 6 ½” 	<ul style="list-style-type: none"> ◆ PC1012B500/PC1012CA00 ◆ PC0516B500/PC0516CA00 ◆ PC0608Z503831 Cover Imprinted “Danger High Voltage – Illumination”

Item 620 – Conductors

General

The following products are pre-qualified for use on projects where Conductors are furnished or installed as required by the item descriptive code. Where splicing materials, insulating materials, GelCaps, fuse holders or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil ◆ 6 AWG & 8AWG Available in Black Only
Encore Wire 1410 Millwood Rd. McKinney, TX 75069 (800) 962-9473 http://www.encorewire.com/	Encore	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 1000 kcmil
Service Wire Company Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil ♦ 6 AWG & 8AWG Available in Black Only
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394 2877 http://www.bussmann.com/	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. To be used when TxDOT Standards RIP-07 and RID-07 sheets are in plan set.</p>
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 0LEXYYSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>

Item 621 – Tray Cable

General

The following products are pre-qualified for use on projects where Tray Cable is furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 500 kcmil
Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 750 kcmil
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 500 kcmil

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ Tray Cable – Power Cable – XLP XHHW Insulation, PVC Jacket, Copper Conductors	♦ Available in 12 AWG -3 and 4 conductor

Item 622 – Duct Cable

General

The following products are pre-qualified for use on projects where Duct Cable is furnished or installed as required by the item descriptive code. Where connectors are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Arnco	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (800) 233-3190 http://www.drakausa.com	Draka	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Item 624 – Ground Boxes

General

The following products are pre-qualified for use on projects where Ground Boxes are furnished or installed as required by descriptive code. Products are subject to testing. No substitutions will be allowed for Types A through E as listed below. For types not listed below, applicable TxDOT standards and specifications will apply.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.strongwell.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PG1324B512 / PG1324H506 ◆ 2PG1324B512 / PG1324H506 ◆ PG1730B512 / PG1730H507 ◆ PG1730B517 / PG1730H507 ◆ PG1324B514 / PG1324H506
		Type D model number changed from 522 to 517. Same box. 522 acceptable to allow for boxes already in stock, until Oct.2008. Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PG1324H5064A (Danger High Voltage FTM) ◆ PG1324H5064B (Danger High Voltage Irrigation) ◆ PG1324H5064D(Danger High Voltage Illumination) ◆ PG1324H5064E (Danger High Voltage Traffic Signal) ◆ PG1324H5064G (Danger High Voltage Sign Lighting) ◆ PG1324H506H7 (Danger High Voltage)
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PG1730H5074A (Danger High Voltage FTM) ◆ PG1730H5064B (Danger High Voltage Irrigation) ◆ PG1730H5074D (Danger High Voltage Illumination) ◆ PG1730H5074E (Danger High Voltage Traffic Signal) ◆ PG1730H5074G (Danger High Voltage Sign Lighting) ◆ PG1730H507H7 (Danger High Voltage)

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Armorcast Products Company 13230 Saticoy St. North Hollywood, CA. 91605 (818) 982-3600 http://www.armorcastprod.com/	Armor cast	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For All Boxes	<ul style="list-style-type: none"> ◆ A6001946TAPCX12 ◆ A6001946TAPCX24 ◆ A6001640TAPCX12 ◆ A6001640TAPCX22 ◆ A6001946TAPCX18 <ul style="list-style-type: none"> ◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
NewBasis 2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747 http://www.newbasis.com/	NewBasis	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ PCB132412G482 ◆ (2) PCB132412G482
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PCC1324DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1324DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PCC1730DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1730DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1730DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1730DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Synertech Moulded Products 2 Inverness St. Candiac, Quebec Canada J5R 4WS Toll Free (888) 868-5214 http://www.synertechproducts.com	Synertech	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ S132412HH90 ◆ S132424HH90 ◆ S173012HH90 ◆ S173024HH90 ◆ S132418HH90
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ S1324HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNAL ◆ S1324HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1324HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1324HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ S1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ S1730HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Carson Industries, LLC. 1160 Nicole Court Glendora, CA. 91740 (800) 735-5566 (909) 592-6272 http://www.carsonind.com/	Carson	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ 13242030 ◆ 13242032
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ 17302061 ◆ 17302063 ◆ 13242031
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 13244156- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 13244158- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 13244171- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 13244170- DANGER HIGH VOLTAGE/LANDSCAPE
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 17304185- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 17304183- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 17304249- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 17305021- DANGER HIGH VOLTAGE/LANDSCAPE

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
CDR Systems Corporation 146 South Atlantic Ave. Ormond Beach, FL. 32176 (386) 615-9510 http://www.cdrsistemas.com/	cdr	◆ A	◆ SB14-1324-12-0287
		◆ B	◆ SB14-1324-12-0287 -2 boxes stacked
		◆ C	◆ SB14-1730-12-0494
		◆ D	◆ SC14-1730-22-0499
		◆ E	◆ SB14-1324-18-0288
		Cover For Type A, B & E	◆ SC12-1324-02
Cover For Type C & D	◆ SC12-1730-02		
Cover For All Boxes	◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.		

Item 628 – Electrical Service

General

The following products have been tested and are pre-qualified for use on projects where Electrical Services are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Electrical Service			
Manufacturer	Brand	Type	Model
Electrol Systems 10623 Sentinel Drive San Antonio, TX 78217 (210) 599-6485 (888) 853-8944 http://www.electrolsystems.com/	Electrol	♦ A ♦ C ♦ C- Auxiliary Only ♦ D ♦ T- Auxiliary Only ♦ T-All in One ♦ A-Pedestal ♦ D-Pedestal	♦ ELECTROL TYPE A-TXDOT ♦ ELECTROL TYPE C-TXDOT ♦ ELECTROL TYPE C- Auxiliary Only – TXDOT ♦ ELECTROL TYPE D-TXDOT ♦ ELECTROL TYPE T- Auxiliary Only - TXDOT ♦ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT ♦ ELECTROL TYPE A-PEDESTAL-TXDOT ♦ ELECTROL TYPE D-PEDESTAL-TXDOT
S&J Electric PO Box 121516 Ft Worth, TX 76121 (817) 560-0000 http://www.sj-electric.com/index.html	Stanfield Enterprises Inc.	♦ A ♦ A-Pedestal ♦ C ♦ C- Auxiliary Only ♦ D ♦ D-Pedestal ♦ T- Auxiliary Only ♦ T-All in One	♦ STANFIELD ENTERPRISE INC. TYPE A-TXDOT ♦ STANFIELD ENTERPRISE INC. TYPE A-PEDESTAL-TXDOT ♦ STANFIELD ENTERPRISE INC. TYPE C-TXDOT ♦ STANFIELD ENTERPRISE INC. TYPE C-Auxiliary Only –TXDOT ♦ STANFIELD ENTERPRISE INC. TYPE D-TXDOT ♦ STANFIELD ENTERPRISE INC. TYPE D-PEDESTAL-TXDOT ♦ STANFIELD ENTERPRISE INC. TYPE T Auxiliary Only –TXDOT ♦ STANFIELD ENTERPRISE INC. TYPE T-ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
WE Manufacturing 5535 Harvey Wilson Drive Houston , TX 77020 (713) 676-2298 (800) 880-9453 http://www.wemanufacturing.com/	WE	♦ A ♦ C ♦ C- Auxiliary Only ♦ D ♦ T- Auxiliary Only ♦ T-All in One ♦ A - Pedestal	♦ WE TYPE A-TXDOT ♦ WE TYPE C-TXDOT ♦ WE TYPE C- Auxiliary Only –TXDOT ♦ WE TYPE D-TXDOT ♦ WE TYPE T- Auxiliary Only –TXDOT ♦ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT ♦ WE TYPE A- PEDESTAL - TXDOT
Mica Corporation P.O. Box 161609 Fort Worth , TX 77020 (817) 847-6121 (817) 577-2088	Mica	♦ A ♦ C ♦ D ♦ T- Auxiliary Only ♦ T-All in One	♦ MICA TYPE A-TXDOT ♦ MICA TYPE C-TXDOT ♦ MICA TYPE D-TXDOT ♦ MICA TYPE T- Auxiliary Only –TXDOT ♦ MICA TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Specialty Control Systems 629 SH 3 League City , TX 77573 (281) 332-0999 http://www.specialtycontrol.com/	SCS	<ul style="list-style-type: none"> ◆ A ◆ D ◆ T-All in One ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ SCS TYPE A-TXDOT ◆ SCS TYPE D-TXDOT ◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ SCS TYPE D-PEDESTAL-TXDOT
Tesco Controls, Inc. 3434 52 nd Ave. Sacramento , CA 95823 (916) 395-8800 http://www.tescocontrols.com/home.htm	Tesco	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ C-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240) ◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480) ◆ TESCO TYPE C-PEDESTAL-TXDOT ◆ TESCO TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Love Electric, Inc. 3128 Spur 124. Tyler , TX 75707 (903) 592-7561	Love	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ A 	<ul style="list-style-type: none"> ◆ LEI TYPE A-PEDESTAL-TXDOT (120/240) ◆ LEI TYPE A-PEDESTAL-TXDOT (240/480) ◆ LEI TYPE A-TXDOT
Myers Power Products, Inc. 725 E. Harrison St. Corona , CA 92879 (951) 520-1900 (866) 696-9377 http://www.myerspwrproducts.com	Myers	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ MEUG16 TYPE A-PEDESTAL-TXDOT ◆ MEUG16 TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Tri-State Electric, Ltd. 4604 Titanic Ave. El Paso , TX 79904 (915) 755-8803	Tri-State	◆ A	◆ TS1000 TYPE A-TXDOT
Associated Starters & Controls 310 Breesport, Ste. D San Antonio , TX 78216 (210) 798-1334 (888) 798-1334	ASC	◆ A ◆ D	◆ ASC TYPE A-TXDOT ◆ ASC TYPE D-TXDOT

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 or ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI

**Roadway Illumination and Electrical Supplies
Table of Contents**

Materials Pre-qualified for Illumination and Electrical items 610-628
No additional submittals are required for products that are pre-qualified

	<u>Page</u>
Item 610 – Roadway Illumination Assemblies.....	2
Item 613 – High Mast Illumination Pole.....	12
Item 614 – High Mast Illumination Assemblies.....	13
Item 618 – Conduit..... (Includes fittings, junction boxes and expansion joints - Future)	18
Item 620 – Electrical Conductors..... (Includes fuse holders) (and applicable parts for making splices - Future)	24
Item 621 – Tray Cable.....	27
Item 622 – Duct Cable.....	29
Item 624 – Ground Boxes.....	31
Item 628 – Electrical Services.....	37

Notice:

All submittal and corresponding documentation becomes public information.
All manufacturers' products that are listed within this document are pre-qualified.
TxDOT reserves the right to remove any manufacturer or product from this list, at any time. Manufacturers interested in being added to the pre-qualified list should contact Traffic Operations Division.

Item 610 – Roadway Illumination Assemblies

General

The following products are pre-qualified for use on the projects where roadway illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	♦ Induction Fluorescent Underpass Fixture	♦ UDP-165-QL-GR
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	♦ Induction Fluorescent Underpass Fixture – Steel Housing ♦ Induction Fluorescent Underpass Fixture – Aluminum Housing	♦ TS2020-3/3-1-150IND- 277V-R-SSPH-TEXAS ♦ TS2020-*/*-150IND- *Volt-8-SSPH-TDOT- ALUMINUM
ESCO Lighting 3254 N. Kilborn Ave. Chicago, IL 60641 (773) 427-7000 http://www.escolighting.com	ESCO	♦ Induction Fluorescent Underpass Fixture	♦ SP2343

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
<p>H.E. Williams</p> <p>831 W. Fairview Ave. P.O. Box 837 Carthage, MO 64836 (417) 358-4065</p> <p>http://www.hew.com</p>	<p>Infinity</p>	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture ◆ BB Box Beam ◆ BD Bridge Deck ◆ UB U-Beam 	<ul style="list-style-type: none"> ◆ ICERL1-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL3-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL5-150S-41K-BAT/CG1-14DEG-UNV <p>New Part Numbers – Same Fixture – October 2006 Old Part Numbers (ICEDC) Phased Out</p>
<p>Cooper</p> <p>1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800</p> <p>http://www.cooperlighting.com</p>	<p>Fail-Safe</p>	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ TF28-150ICE-UNV-A1432

Roadway Illumination Assemblies – Luminaire			
Manufacturer	Brand	Type	Model
<p>Cooper</p> <p>1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800</p> <p>http://www.cooperlighting.com</p>	Streetworks	<ul style="list-style-type: none"> ◆ 150W HPS- 240/480 Volt ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ OVW15SMJ3DD0004 ◆ OVW25SMG2DD0001 ◆ OVW25SMJ2DD0002 ◆ OVW40SMG2DD0005 ◆ OVW40SMJ2DD0003
<p>G.E. Lighting Systems, Inc.</p> <p>3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372</p> <p>http://www.gelightingssystem.com</p>	M4RC	<ul style="list-style-type: none"> ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ M4RC25S7M4GSC2311 or GE Manufacture #168025 ◆ M4RC25S9M4GSC2311 or GE Manufacture #168023 ◆ M4RC40S7M4GSC3311 or GE Manufacture #157785 ◆ M4RC40S9M4GSC3311 or GE Manufacture #158165

Item 610 – Roadway Illumination Assemblies

General

Roadway Illumination Poles do not need to be pre-qualified when TxDOT RIP-07(Roadway Illumination Poles -2007) standard sheets are included in the plan set.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of Item 610 and applicable Special Provisions to Item 610.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP-07 (Roadway Illumination Poles -2007). Poles fabricated according to RIP-07 require no shop drawings.

Alternate designs to RIP-07 or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on submitting shop drawings electronically go to:

<http://www.dot.state.tx.us/publications/bridge.htm>

File is titled: Guide to Electronic Shop Drawing Submittal.

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
<p>Valmont Industries, Inc.</p> <p>7002 N. 288th St. P.O. Box 358 Valley, NE 68064-0358 (402) 359-2201</p> <p>http://www.valmont.com/</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Barrier Mount ◆ 30-50 Ft.-Steel Pole Bridge Mount 	<ul style="list-style-type: none"> ◆ All Poles Based on Drawing # DB00388 Sheet 1 of 2 Revision Date 6-24-02 ◆ All Anchor Bolt Details Based on Drawing # DB00388 Sheet 2 of 2 Revision Dated 6-24-02
<p>Union Metal Corporation</p> <p>1432 Maple Ave., NE P.O. Box 9920 Canton, OH 44705 (330) 456-7653</p> <p>http://www.unionmetal.com/</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # T1408-B2 – Sheet 1 of 2 Revision Date 11-8-02 & #T1408-B2 – Sheet 2 of 2 Dated 1-11-00 Anchor Bolt Details Based on Drawing # AA8 & AA3A – No Date ◆ Based on Drawing # T1406-B4 – Sheet 1 of 2 Revision Date 11-8-02 & #T1404-B4 – Sheet 2 of 2 Dated 1-26-00 Anchor Bolt Details Based on Drawing # A2A & A2D – Revision Date 11-8-02 ◆ Based on Drawing # T1406-B3 – Sheet 1 of 2 Revision Date 11-8-02 & #T1406-B3 – Sheet 2 of 2 Dated 1-14-00 Anchor Bolt Details Based on Drawing # AA9 & AA2A – Revision Date 11-8-02

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
<p>Hapco</p> <p>26252 Hillman Highway Abingdon, VA 24210 (800) 368-7171</p> <p>http://www.hapco.com/</p>		<ul style="list-style-type: none"> ◆ 40 Ft.-Aluminum with 8Ft. Arm Only 	<ul style="list-style-type: none"> ◆ Based on Drawing # B82627 and B83058
<p>Whitco Poles</p> <p>7700 Wyatt Drive Ft. Worth, TX 76108 (800) 433-7753</p> <p>http://www.whitcoples.com</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # TX-DOT-003 ◆ Based on Drawing # TX-DOT-001 ◆ Based on Drawing # TX-DOT-002

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Millerbernd Manufacturing, Co. 622 6th. Street South P.O. Box 98 Winsted, MN 55395 (320) 485-2111 http://www.millerberndmfg.com		◆ 30 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B588 Sheet 1 of 1 Revision Date 6-15-05
		◆ 40 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B586 Sheet 1 of 1 Revision Date 6-3-05
		◆ 50 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B587 Sheet 1 of 1 Revision Date 6-3-05
		◆ 30 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B694 Sheet 1 of 1 Revision Date 9-26-05
		◆ 40 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B691 Sheet 1 of 1 Revision Date 9-26-05
		◆ 50 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B693 Sheet 1 of 1 Revision Date 9-26-05
		◆ 30 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B589 Sheet 1 of 1 Revision Date 6-28-05
		◆ 40 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B590 Sheet 1 of 1 Revision Date 6-28-05
		◆ 50 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B591 Sheet 1 of 1 Revision Date 6-28-05
		◆ 30 Ft.-Requisition Pole	◆ Based on Drawing # 730B707 Sheet 1 of 1 Date 7-13-05
		◆ 40 Ft.-Requisition Pole	◆ Based on Drawing # 730B643 Sheet 1 of 1 Revision Date 6-16-05
		◆ 50 Ft.-Requisition Pole	◆ Based on Drawing # 730B644 Sheet 1 of 1 Revision Date 6-16-05

High Pressure Sodium Lamps			
Manufacturer	Brand	Type	Model
Osram Sylvania 100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828 http://www.sylvania.com/	Sylvania - Lumalux Plus®/ECO	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 67312 - LU400/PLUS/ECO ◆ 67572 - LU250/PLUS/ECO ◆ 67494 - LU150/55/PLUS/ECO

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394-2877 http://www.bussmann.com/	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ OLEXYYSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>

Item 613 – High Mast Illumination Poles

General

There are no pre-qualified High Mast Illumination Poles.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of item 613. Provide components that fit together properly.

- (a) **Alternate Design.** Approval must be obtained for alternate designs. Obtain approval to eliminate the ground sleeve (with associated changes to the base plate bolt circle) or to significantly modify the access hole ring by testing a full-scale specimen of the base section. Support the specimen at the base plate on double-nutted anchor bolts. Load the specimen to produce maximum compression on the access hole ring. Provide test results that clearly demonstrate the specimen can develop the factored moment capacity (load factor of 1.38 multiplied by wind factor of 1.4 multiplied by F_b) which is approximately the full plastic bending capacity. Once a fabricator obtains approval for modified details, this approval extends to all future TxDOT projects.
- (b) **Shop Drawings.** Do not provide shop drawings for high mast illumination poles fabricated in accordance with this Item and the plans. Provide shop drawings for alternate designs. The submission of shop drawings is only required the first time each alternate design is used. Submit seven sets of shop drawings to the Bridge Division.

Item 614 – High Mast Illumination Assemblies

General

The following products are pre-qualified for use on the projects where high mast illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Luminaire – High Mast			
Manufacturer	Brand	Type	Model
Holophane 214 Oakwood Ave. Newark, OH 43055 (740) 345-9631 (512) 791-7982 http://www.holophane.com	High Mast Cutoff-HMSC High Mast Dark Skies-HMSD	<ul style="list-style-type: none"> ◆ High Mast – Type B ◆ High Mast – Type S Type A and C Removed From List. 4-26-07	<ul style="list-style-type: none"> ◆ HMSC40RHP48BTX03 ◆ HMSD40RHP48STX03 Type A and C Removed From List. 4-26-07
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingssystem.com	G.E.	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ 159189 ◆ 159190 ◆ 159191 ◆ 159193
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Streetworks	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ GMA40SM83DD0018 ◆ GMA40SM83DD0019 ◆ GMA40SM83DD0020 ◆ GMA40SM8ARD0017

High Mast Kit

Manufacturer	Brand	Type	Model
Mica Corporation 5750 N. Riverside Dr. Fort Worth, TX 76137 (817) 577-2088 http://www.micacorporation.com	Mica Corporation	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-PH ♦ HMK-150-PH ♦ HMK -175-PH
Carolina High Mast, Inc. 700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046	Carolina High Mast, Inc.	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-CHMI ♦ HMK-150-CHMI ♦ HMK -175-CHMI
Rexel 2400 Brockton San Antonio, TX 78217 (210) 352-1047 http://www.rexelusa.com	Rexel	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-RX ♦ HMK-150-RX ♦ HMK -175-RX

High Mast Kit

Manufacturer	Brand	Type	Model
Wildcat Electric Supply, Ltd. 2061 Clovis Barker Road #5. San Marcos, TX 77666 (512) 396-8900 (866) 301-5200 http://www.wildcatelectric.com	Wildcat	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-WC ◆ HMK-150-WC ◆ HMK -175-WC

High Mast Ring- Previously Approved Shop Drawings

Manufacturer		Type	
<p>J.W. Hall Enterprises, Inc.</p> <p>17731 Elizabeth Rd. Algoa, TX 77511 (281) 337-6311</p> <p>http://www.jwhall.com</p>		<p>◆ High Mast Ring</p> <p>Drawing # HM 2002-01 Sheets 1 through 6 Drawing # HE 2002 Sheets 7 through 9</p>	
<p>Carolina High Mast, Inc.</p> <p>700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046</p>		<p>◆ High Mast Ring</p> <p>Drawing # TXDOT-01 Sheets 1 through 5 Drawing # TXDOT-02 Sheets 1 through 4 Drawing # TXDOT-03 Sheets 1 through 4 Drawing # TXDOT-04 Sheets 1 through 3</p>	
<p>Traffic Control Devices</p> <p>4417 Main Street Pearland, TX 77581 (281) 992-3030</p> <p>http://www.tcd.cc</p>		<p>◆ High Mast Ring</p> <p>Drawing # E-901 Sheets 1 through 10</p>	

High Mast Ring- Previously Approved Shop Drawings			
Manufacturer		Type	
Brookfield Fabricating Corp. Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214		♦ High Mast Ring Drawings Dated 4-8-96 Sheets 1 through 4	
PKM Steel Service 228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638 http://www.pkmsteel.com/		♦ High Mast Ring Sheet E1 Dated 8-2-05 Sheet 1 Dated 10-12-05 Sheet 2 Dated 10-12-05 Sheet 3 Dated 10-12-05	

Item 618 – Conduit

General

The following products have been tested and are pre-qualified for use on projects where Conduit, Junction Boxes, Expansion Joints and Conduit Fittings are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Rigid Metallic Conduit – (RMC)			
Manufacturer	Brand	Type	Model
Allied 16100 S. Lathrop Avenue Harvey, IL 60426-6021 (800) 882-5543 http://www.alliedtube.com	Allied	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
Wheatland 900 Haddon Avenue P.O. Box 600 Collingswood, NJ 08108-0600 (800) 257-8182 http://www.wheatland.com/	Wheatland	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)			
Manufacturer	Brand	Type	Model
Cantex P.O. Box 340 Mineral Wells, TX 76068 (940) 325-3344 (800) 433-5623 http://www.cantexinc.com/	Cantex	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Georgia Pipe Company 1206 Sunset Drive P.O. Box 2235 Thomasville, GA 31799 (229) 226-7337 http://www.alliedtube.com/	Georgia Pipe	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	J-M PVC Conduits	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Lansom & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlon	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)			
Manufacturer	Brand	Type	Model
National Pipe & Plastics, Inc. 3421 Old Vestal Road Vestal, NY 13850 (800) 836-4350 http://www.nationalpipe.com/	NPPI PVC	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791 http://www.heritageplastics.com/	Heritage	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
PW Eagle, Inc. P.O. Box 10049 Eugene, OR 97477 (800) 347-0200 http://www.pweaglepipe.com	PW Eagle	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Perma-Guard/ UL	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SW 400 050 N000-UL ◆ 3/4" SW 400 075 N000-UL ◆ 1" SW 400 100 N000-UL ◆ 2" SW 400 200 N000-UL ◆ 3" SW 400 300 N000-UL
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line – Smoothwall	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SCH-40 (0538-11007-0000000) ◆ 3/4" SCH-40 (0738-11007-0000000) ◆ 1" SCH-40 (1038-11007-0000000) ◆ 1.25" SCH-40 (1238-11007-0000000) ◆ 1.50" SCH-40 (1538-11007-0000000) ◆ 2" SCH-40 (2038-11007-0000000) ◆ 3" SCH-40 (3038-11007-0000000) ◆ 4" SCH-40 (3538-11007-0000000) ◆ 5" SCH-40 (3638-11007-0000000) ◆ 6" SCH-40 (3738-11007-0000000)
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	HDPE ® - HDPE Duct/Inner Duct	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1 ¼" 1.25 7.5M S40 BLK ◆ 1 ½" 1.5 6M S40 BLK ◆ 2" 2 3M S40 BLK ◆ 3" 3 1M S40 BLK ◆ 4" 4 725M S40 BLK
Lamson & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlton/UL Listed HDPE	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" U2C4-UV ◆ 3/4" U3C4-UV ◆ 1" U5C4-UV ◆ 1 ¼" U6C4-UV ◆ 1 ½" U9C4-UV ◆ 2" U13C4-UV ◆ 3" U15C4-UV ◆ 4" U16C4-UV

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Rinker Materials P.O. Box 390 Gainsville, TX 76240 (800) 433-5632 http://www.rinker.com/	PolyPipe® HDPE Duct Pipe	♦ HDPE Conduit – Schedule 40 Color - Black	♦ PolyPipe® EHMW – PE3408 ½” to 4”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond HDPE	♦ HDPE Conduit – Schedule 40 Color - Black	♦ 1/2" BDI065BK-UL ♦ 3/4" BDI095BK-UL ♦ 1" BDI115BK-UL ♦ 1 ¼" BDI135BK-UL ♦ 1 ½" BDI165BK-UL ♦ 2" BDI215BK-UL ♦ 3" BDI315BK-UL ♦ 4" BDI414BK-UL

Precast Polymer Concrete Junction Box for Concrete Traffic Barrier			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.strongwell.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ Median Barrier Box ◆ Median Barrier Box – for Concrete Barrier (F-Shape) ◆ Junction Box w/Cover OD – 9 X 11 X 7 ¼” ID – 7 ⅜ X 9 ⅜ X 6 ½”	<ul style="list-style-type: none"> ◆ PC1012B500/PC1012CA00 ◆ PC0516B500/PC0516CA00 ◆ PC0608Z503831 Cover Imprinted “Danger High Voltage – Illumination”

Item 620 – Conductors

General

The following products are pre-qualified for use on projects where Conductors are furnished or installed as required by the item descriptive code. Where splicing materials, insulating materials, GelCaps, fuse holders or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil ◆ 6 AWG & 8AWG Available in Black Only
Encore Wire 1410 Millwood Rd. McKinney, TX 75069 (800) 962-9473 http://www.encorewire.com/	Encore	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 1000 kcmil
Service Wire Company Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil ♦ 6 AWG & 8AWG Available in Black Only
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
<p>Cooper Bussmann, Inc.</p> <p>P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394 2877</p> <p>http://www.bussmann.com/</p>	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 sheets are in plan set.</p>
<p>Littlefuse Inc.</p> <p>800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188</p> <p>http://www.littlefuse.com</p>	Littlefuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ OLEXYYSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>

Item 621 – Tray Cable

General

The following products are pre-qualified for use on projects where Tray Cable is furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 500 kcmil
Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 750 kcmil
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 500 kcmil

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ Tray Cable – Power Cable – XLP XHHW Insulation, PVC Jacket, Copper Conductors	♦ Available in 12 AWG -3 and 4 conductor

Item 622 – Duct Cable

General

The following products are pre-qualified for use on projects where Duct Cable is furnished or installed as required by the item descriptive code. Where connectors are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Arnco	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (800) 233-3190 http://www.drakausa.com	Draka	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Item 624 – Ground Boxes

General

The following products are pre-qualified for use on projects where Ground Boxes are furnished or installed as required by descriptive code. Products are subject to testing. No substitutions will be allowed for Types A through E as listed below. For types not listed below, applicable TxDOT standards and specifications will apply.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.strongwell.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PG1324B512 / PG1324H506 ◆ 2PG1324B512 / PG1324H506 ◆ PG1730B512 / PG1730H507 ◆ PG1730B517 / PG1730H507 ◆ PG1324B514 / PG1324H506
		Type D model number changed from 522 to 517. Same box. 522 acceptable to allow for boxes already in stock, until Oct.2008. Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PG1324H5064A (Danger High Voltage FTM) ◆ PG1324H5064B (Danger High Voltage Irrigation) ◆ PG1324H5064D(Danger High Voltage Illumination) ◆ PG1324H5064E (Danger High Voltage Traffic Signal) ◆ PG1324H5064G (Danger High Voltage Sign Lighting) ◆ PG1324H506H7 (Danger High Voltage)
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PG1730H5074A (Danger High Voltage FTM) ◆ PG1730H5064B (Danger High Voltage Irrigation) ◆ PG1730H5074D (Danger High Voltage Illumination) ◆ PG1730H5074E (Danger High Voltage Traffic Signal) ◆ PG1730H5074G (Danger High Voltage Sign Lighting) ◆ PG1730H507H7 (Danger High Voltage)

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Armorcast Products Company 13230 Saticoy St. North Hollywood, CA. 91605 (818) 982-3600 http://www.armorcastprod.com/	Armor cast	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For All Boxes	<ul style="list-style-type: none"> ◆ A6001946TAPCX12 ◆ A6001946TAPCX24 ◆ A6001640TAPCX12 ◆ A6001640TAPCX22 ◆ A6001946TAPCX18 <ul style="list-style-type: none"> ◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
NewBasis 2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747 http://www.newbasis.com/	NewBasis	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ PCB132412G482 ◆ (2) PCB132412G482
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PCC1324DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1324DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PCC1730DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1730DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1730DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1730DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Synertech Moulded Products 2 Inverness St. Candiac, Quebec Canada J5R 4WS Toll Free (888) 868-5214 http://www.synertechproducts.com	Synertech	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ S132412HH90 ◆ S132424HH90 ◆ S173012HH90 ◆ S173024HH90 ◆ S132418HH90
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ S1324HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNAL ◆ S1324HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1324HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1324HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ S1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ S1730HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Carson Industries, LLC. 1160 Nicole Court Glendora, CA. 91740 (800) 735-5566 (909) 592-6272 http://www.carsonind.com/	Carson	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ 13242030 ◆ 13242032
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ 17302061 ◆ 17302063 ◆ 13242031
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 13244156- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 13244158- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 13244171- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 13244170- DANGER HIGH VOLTAGE/LANDSCAPE
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 17304185- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 17304183- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 17304249- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 17305021- DANGER HIGH VOLTAGE/LANDSCAPE

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
CDR Systems Corporation 146 South Atlantic Ave. Ormond Beach, FL. 32176 (386) 615-9510 http://www.cdrcsystems.com/	cdr	◆ A	◆ SB14-1324-12-0287
		◆ B	◆ SB14-1324-12-0287 -2 boxes stacked
		◆ C	◆ SB14-1730-12-0494
		◆ D	◆ SC14-1730-22-0499
		◆ E	◆ SB14-1324-18-0288
		Cover For Type A, B & E	◆ SC12-1324-02
		Cover For Type C & D	◆ SC12-1730-02
Cover For All Boxes	◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.		

Item 628 – Electrical Service

General

The following products have been tested and are pre-qualified for use on projects where Electrical Services are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Electrical Service			
Manufacturer	Brand	Type	Model
Electrol Systems 10623 Sentinel Drive San Antonio, TX 78217 (210) 599-6485 (888) 853-8944 http://www.electrolsystems.com/	Electrol	<ul style="list-style-type: none"> ◆ A ◆ C ◆ C- Auxiliary Only ◆ D ◆ T- Auxiliary Only ◆ T-All in One ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ ELECTROL TYPE A-TXDOT ◆ ELECTROL TYPE C-TXDOT ◆ ELECTROL TYPE C- Auxiliary Only – TXDOT ◆ ELECTROL TYPE D-TXDOT ◆ ELECTROL TYPE T- Auxiliary Only - TXDOT ◆ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT ◆ ELECTROL TYPE A-PEDESTAL-TXDOT ◆ ELECTROL TYPE D-PEDESTAL-TXDOT
S&J Electric PO Box 121516 Ft Worth, TX 76121 (817) 560-0000 http://www.sj-electric.com/index.html	Stanfield Enterprises Inc.	<ul style="list-style-type: none"> ◆ A ◆ A-Pedestal ◆ C ◆ C- Auxiliary Only ◆ D ◆ D-Pedestal ◆ T- Auxiliary Only ◆ T-All in One 	<ul style="list-style-type: none"> ◆ STANFIELD ENTERPRISE INC. TYPE A-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE A-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C- Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
WE Manufacturing 5535 Harvey Wilson Drive Houston , TX 77020 (713) 676-2298 (800) 880-9453 http://www.wemanufacturing.com/	WE	♦ A ♦ C ♦ C- Auxiliary Only ♦ D ♦ T- Auxiliary Only ♦ T-All in One ♦ A - Pedestal	♦ WE TYPE A-TXDOT ♦ WE TYPE C-TXDOT ♦ WE TYPE C- Auxiliary Only –TXDOT ♦ WE TYPE D-TXDOT ♦ WE TYPE T- Auxiliary Only –TXDOT ♦ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT ♦ WE TYPE A- PEDESTAL - TXDOT
Mica Corporation P.O. Box 161609 Fort Worth , TX 77020 (817) 847-6121 (817) 577-2088	Mica	♦ A ♦ C ♦ D ♦ T- Auxiliary Only ♦ T-All in One	♦ MICA TYPE A-TXDOT ♦ MICA TYPE C-TXDOT ♦ MICA TYPE D-TXDOT ♦ MICA TYPE T- Auxiliary Only –TXDOT ♦ MICA TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Specialty Control Systems 629 SH 3 League City , TX 77573 (281) 332-0999 http://www.specialtycontrol.com/	SCS	<ul style="list-style-type: none"> ◆ A ◆ D ◆ T-All in One ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ SCS TYPE A-TXDOT ◆ SCS TYPE D-TXDOT ◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ SCS TYPE D-PEDESTAL-TXDOT
Tesco Controls, Inc. 3434 52 nd Ave. Sacramento , CA 95823 (916) 395-8800 http://www.tescocontrols.com/home.htm	Tesco	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ C-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240) ◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480) ◆ TESCO TYPE C-PEDESTAL-TXDOT ◆ TESCO TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Love Electric, Inc. 3128 Spur 124. Tyler , TX 75707 (903) 592-7561	Love	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ A 	<ul style="list-style-type: none"> ◆ LEI TYPE A-PEDESTAL-TXDOT (120/240) ◆ LEI TYPE A-PEDESTAL-TXDOT (240/480) ◆ LEI TYPE A-TXDOT
Myers Power Products, Inc. 725 E. Harrison St. Corona , CA 92879 (951) 520-1900 (866) 696-9377 http://www.myerspwrproducts.com	Myers	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ MEUG16 TYPE A-PEDESTAL-TXDOT ◆ MEUG16 TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Tri-State Electric, Ltd. 4604 Titanic Ave. El Paso , TX 79904 (915) 755-8803	Tri-State	◆ A	◆ TS1000 TYPE A-TXDOT
Associated Starters & Controls 310 Breesport, Ste. D San Antonio , TX 78216 (210) 798-1334 (888) 798-1334	ASC	◆ A ◆ D ◆ A - Pedestal ◆ D - Pedestal	◆ ASC TYPE A-TXDOT ◆ ASC TYPE D-TXDOT ◆ ASC TYPE A-Pedestal - TXDOT ◆ ASC TYPE D-Pedestal - TXDOT

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 or ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI

**Roadway Illumination and Electrical Supplies
Table of Contents**

Materials Pre-qualified for Illumination and Electrical items 610-628
No additional submittals are required for products that are pre-qualified

	<u>Page</u>
Item 610 – Roadway Illumination Assemblies.....	2
Item 613 – High Mast Illumination Pole.....	12
Item 614 – High Mast Illumination Assemblies.....	13
Item 618 – Conduit..... (Includes fittings, junction boxes and expansion joints - Future)	18
Item 620 – Electrical Conductors..... (Includes fuse holders) (and applicable parts for making splices - Future)	24
Item 621 – Tray Cable.....	27
Item 622 – Duct Cable.....	29
Item 624 – Ground Boxes.....	31
Item 628 – Electrical Services.....	37

Notice:

All submittal and corresponding documentation becomes public information.
All manufacturers' products that are listed within this document are pre-qualified.
TxDOT reserves the right to remove any manufacturer or product from this list, at any time. Manufacturers interested in being added to the pre-qualified list should contact Traffic Operations Division.

Item 610 – Roadway Illumination Assemblies

General

The following products are pre-qualified for use on the projects where roadway illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	♦ Induction Fluorescent Underpass Fixture	♦ UDP-165-QL-GR
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	♦ Induction Fluorescent Underpass Fixture – Steel Housing ♦ Induction Fluorescent Underpass Fixture – Aluminum Housing	♦ TS2020-3/3-1-150IND- 277V-R-SSPH-TEXAS ♦ TS2020-*/*-150IND- *Volt-8-SSPH-TDOT- ALUMINUM
ESCO Lighting 3254 N. Kilborn Ave. Chicago, IL 60641 (773) 427-7000 http://www.escolighting.com	ESCO	♦ Induction Fluorescent Underpass Fixture	♦ SP2343

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
H.E. Williams 831 W. Fairview Ave. P.O. Box 837 Carthage, MO 64836 (417) 358-4065 http://www.hew.com	Infinity	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture ◆ BB Box Beam ◆ BD Bridge Deck ◆ UB U-Beam 	<ul style="list-style-type: none"> ◆ ICERL1-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL3-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL5-150S-41K-BAT/CG1-14DEG-UNV <p>New Part Numbers – Same Fixture – October 2006 Old Part Numbers (ICEDC) Phased Out</p>
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Fail-Safe	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ TF28-150ICE-UNV-A1432

Roadway Illumination Assemblies – Luminaire			
Manufacturer	Brand	Type	Model
<p>Cooper</p> <p>1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800</p> <p>http://www.cooperlighting.com</p>	Streetworks	<ul style="list-style-type: none"> ◆ 150W HPS- 240/480 Volt ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ OVW15SMJ3DD0004 ◆ OVW25SMG2DD0001 ◆ OVW25SMJ2DD0002 ◆ OVW40SMG2DD0005 ◆ OVW40SMJ2DD0003
<p>G.E. Lighting Systems, Inc.</p> <p>3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372</p> <p>http://www.gelightingsystems.com</p>	M4RC	<ul style="list-style-type: none"> ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ M4RC25S7M4GSC2311 or GE Manufacture #168025 ◆ M4RC25S9M4GSC2311 or GE Manufacture #168023 ◆ M4RC40S7M4GSC3311 or GE Manufacture #157785 ◆ M4RC40S9M4GSC3311 or GE Manufacture #158165

Item 610 – Roadway Illumination Assemblies

General

Roadway Illumination Poles do not need to be pre-qualified when TxDOT RIP-07(Roadway Illumination Poles -2007) standard sheets are included in the plan set.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of Item 610 and applicable Special Provisions to Item 610.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP-07 (Roadway Illumination Poles -2007). Poles fabricated according to RIP-07 require no shop drawings.

Alternate designs to RIP-07 or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on submitting shop drawings electronically go to:

<http://www.dot.state.tx.us/publications/bridge.htm>

File is titled: Guide to Electronic Shop Drawing Submittal.

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Hapco 26252 Hillman Highway Abingdon, VA 24210 (800) 368-7171 http://www.hapco.com/		<ul style="list-style-type: none"> ◆ 40 Ft.-Aluminum with 8Ft. Arm Only 	<ul style="list-style-type: none"> ◆ Based on Drawing # B82627 and B83058
Whitco Poles 7700 Wyatt Drive Ft. Worth, TX 76108 (800) 433-7753 http://www.whitcoples.com		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # TX-DOT-003 ◆ Based on Drawing # TX-DOT-001 ◆ Based on Drawing # TX-DOT-002

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Millerbernd Manufacturing, Co. 622 6th. Street South P.O. Box 98 Winsted, MN 55395 (320) 485-2111 http://www.millerberndmfg.com		◆ 30 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B588 Sheet 1 of 1 Revision Date 6-15-05
		◆ 40 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B586 Sheet 1 of 1 Revision Date 6-3-05
		◆ 50 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B587 Sheet 1 of 1 Revision Date 6-3-05
		◆ 30 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B694 Sheet 1 of 1 Revision Date 9-26-05
		◆ 40 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B691 Sheet 1 of 1 Revision Date 9-26-05
		◆ 50 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B693 Sheet 1 of 1 Revision Date 9-26-05
		◆ 30 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B589 Sheet 1 of 1 Revision Date 6-28-05
		◆ 40 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B590 Sheet 1 of 1 Revision Date 6-28-05
		◆ 50 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B591 Sheet 1 of 1 Revision Date 6-28-05
		◆ 30 Ft.-Requisition Pole	◆ Based on Drawing # 730B707 Sheet 1 of 1 Date 7-13-05
		◆ 40 Ft.-Requisition Pole	◆ Based on Drawing # 730B643 Sheet 1 of 1 Revision Date 6-16-05
		◆ 50 Ft.-Requisition Pole	◆ Based on Drawing # 730B644 Sheet 1 of 1 Revision Date 6-16-05

High Pressure Sodium Lamps			
Manufacturer	Brand	Type	Model
Osram Sylvania 100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828 http://www.sylvania.com/	Sylvania - Lumalux Plus®/ECO	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 67312 - LU400/PLUS/ECO ◆ 67572 - LU250/PLUS/ECO ◆ 67494 - LU150/55/PLUS/ECO

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
<p>Cooper Bussmann, Inc.</p> <p>P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394-2877</p> <p>http://www.bussmann.com/</p>	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>
<p>Littlefuse Inc.</p> <p>800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188</p> <p>http://www.littlefuse.com</p>	Littlefuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 0LEXYYSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>
<p>Ferraz Shawmut Inc.</p> <p>374 Merrimac Street Newburyport, MA 01950 (978) 462-6662</p> <p>http://www.ferrazshawmut.com</p>	Ferraz Shawmut	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ FEX-91-91-BA – used when no neutral is required ◆ FEXN-91-91-BA – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>

Item 613 – High Mast Illumination Poles

General

There are no pre-qualified High Mast Illumination Poles.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of item 613. Provide components that fit together properly.

- (a) **Alternate Design.** Approval must be obtained for alternate designs. Obtain approval to eliminate the ground sleeve (with associated changes to the base plate bolt circle) or to significantly modify the access hole ring by testing a full-scale specimen of the base section. Support the specimen at the base plate on double-nutted anchor bolts. Load the specimen to produce maximum compression on the access hole ring. Provide test results that clearly demonstrate the specimen can develop the factored moment capacity (load factor of 1.38 multiplied by wind factor of 1.4 multiplied by F_b) which is approximately the full plastic bending capacity. Once a fabricator obtains approval for modified details, this approval extends to all future TxDOT projects.
- (b) **Shop Drawings.** Do not provide shop drawings for high mast illumination poles fabricated in accordance with this Item and the plans. Provide shop drawings for alternate designs. The submission of shop drawings is only required the first time each alternate design is used. Submit seven sets of shop drawings to the Bridge Division.

Item 614 – High Mast Illumination Assemblies

General

The following products are pre-qualified for use on the projects where high mast illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Luminaire – High Mast			
Manufacturer	Brand	Type	Model
Holophane 214 Oakwood Ave. Newark, OH 43055 (740) 345-9631 (512) 791-7982 http://www.holophane.com	High Mast Cutoff-HMSC High Mast Dark Skies- HMSD	<ul style="list-style-type: none"> ◆ High Mast – Type B ◆ High Mast – Type S Type A and C Removed From List. 4-26-07 	<ul style="list-style-type: none"> ◆ HMSC40RHP48BTX03 ◆ HMSD40RHP48STX03 Type A and C Removed From List. 4-26-07
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingsystems.com	G.E.	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ 159189 ◆ 159190 ◆ 159191 ◆ 159193
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Streetworks	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ GMA40SM83DD0018 ◆ GMA40SM83DD0019 ◆ GMA40SM83DD0020 ◆ GMA40SM8ARD0017

High Mast Kit

Manufacturer	Brand	Type	Model
Mica Corporation 5750 N. Riverside Dr. Fort Worth, TX 76137 (817) 577-2088 http://www.micacorporation.com	Mica Corporation	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-PH ♦ HMK-150-PH ♦ HMK -175-PH
Carolina High Mast, Inc. 700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046	Carolina High Mast, Inc.	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-CHMI ♦ HMK-150-CHMI ♦ HMK -175-CHMI
Rexel 2400 Brockton San Antonio, TX 78217 (210) 352-1047 http://www.rexelusa.com	Rexel	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-RX ♦ HMK-150-RX ♦ HMK -175-RX

High Mast Kit

Manufacturer	Brand	Type	Model
Wildcat Electric Supply, Ltd. 2061 Clovis Barker Road #5. San Marcos, TX 77666 (512) 396-8900 (866) 301-5200 http://www.wildcatelectric.com	Wildcat	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-WC ◆ HMK-150-WC ◆ HMK -175-WC

High Mast Ring- Previously Approved Shop Drawings

Manufacturer		Type	
<p>J.W. Hall Enterprises, Inc.</p> <p>17731 Elizabeth Rd. Algoa, TX 77511 (281) 337-6311</p> <p>http://www.jwhall.com</p>		<p>◆ High Mast Ring</p> <p>Drawing # HM 2002-01 Sheets 1 through 6 Drawing # HE 2002 Sheets 7 through 9</p>	
<p>Carolina High Mast, Inc.</p> <p>700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046</p>		<p>◆ High Mast Ring</p> <p>Drawing # TXDOT-01 Sheets 1 through 5 Drawing # TXDOT-02 Sheets 1 through 4 Drawing # TXDOT-03 Sheets 1 through 4 Drawing # TXDOT-04 Sheets 1 through 3</p>	
<p>Traffic Control Devices</p> <p>4417 Main Street Pearland, TX 77581 (281) 992-3030</p> <p>http://www.tcd.cc</p>		<p>◆ High Mast Ring</p> <p>Drawing # E-901 Sheets 1 through 10</p>	

High Mast Ring- Previously Approved Shop Drawings			
Manufacturer		Type	
Brookfield Fabricating Corp. Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214		♦ High Mast Ring Drawings Dated 4-8-96 Sheets 1 through 4	
PKM Steel Service 228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638 http://www.pkmsteel.com/		♦ High Mast Ring Sheet E1 Dated 8-2-05 Sheet 1 Dated 10-12-05 Sheet 2 Dated 10-12-05 Sheet 3 Dated 10-12-05	

Item 618 – Conduit

General

The following products have been tested and are pre-qualified for use on projects where Conduit, Junction Boxes, Expansion Joints and Conduit Fittings are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Rigid Metallic Conduit – (RMC)			
Manufacturer	Brand	Type	Model
Allied 16100 S. Lathrop Avenue Harvey, IL 60426-6021 (800) 882-5543 http://www.alliedtube.com	Allied	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
Wheatland 900 Haddon Avenue P.O. Box 600 Collingswood, NJ 08108-0600 (800) 257-8182 http://www.wheatland.com/	Wheatland	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)			
Manufacturer	Brand	Type	Model
Cantex P.O. Box 340 Mineral Wells, TX 76068 (940) 325-3344 (800) 433-5623 http://www.cantexinc.com/	Cantex	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Georgia Pipe Company 1206 Sunset Drive P.O. Box 2235 Thomasville, GA 31799 (229) 226-7337 http://www.alliedtube.com/	Georgia Pipe	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	J-M PVC Conduits	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Lansom & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlon	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)

Manufacturer	Brand	Type	Model
National Pipe & Plastics, Inc. 3421 Old Vestal Road Vestal, NY 13850 (800) 836-4350 http://www.nationalpipe.com/	NPPI PVC	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791 http://www.heritageplastics.com/	Heritage	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
PW Eagle, Inc. P.O. Box 10049 Eugene, OR 97477 (800) 347-0200 http://www.pweaglepipe.com	PW Eagle	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Perma-Guard/ UL	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SW 400 050 N000-UL ◆ 3/4" SW 400 075 N000-UL ◆ 1" SW 400 100 N000-UL ◆ 2" SW 400 200 N000-UL ◆ 3" SW 400 300 N000-UL
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line – Smoothwall	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SCH-40 (0538-11007-0000000) ◆ 3/4" SCH-40 (0738-11007-0000000) ◆ 1" SCH-40 (1038-11007-0000000) ◆ 1.25" SCH-40 (1238-11007-0000000) ◆ 1.50" SCH-40 (1538-11007-0000000) ◆ 2" SCH-40 (2038-11007-0000000) ◆ 3" SCH-40 (3038-11007-0000000) ◆ 4" SCH-40 (3538-11007-0000000) ◆ 5" SCH-40 (3638-11007-0000000) ◆ 6" SCH-40 (3738-11007-0000000)
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	HDPE ® - HDPE Duct/Inner Duct	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1 ¼" 1.25 7.5M S40 BLK ◆ 1 ½" 1.5 6M S40 BLK ◆ 2" 2 3M S40 BLK ◆ 3" 3 1M S40 BLK ◆ 4" 4 725M S40 BLK
Lamson & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlton/UL Listed HDPE	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" U2C4-UV ◆ 3/4" U3C4-UV ◆ 1" U5C4-UV ◆ 1 ¼" U6C4-UV ◆ 1 ½" U9C4-UV ◆ 2" U13C4-UV ◆ 3" U15C4-UV ◆ 4" U16C4-UV

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Rinker Materials P.O. Box 390 Gainsville, TX 76240 (800) 433-5632 http://www.rinker.com/	PolyPipe® HDPE Duct Pipe	♦ HDPE Conduit – Schedule 40 Color - Black	♦ PolyPipe® EHMW – PE3408 ½” to 4”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond HDPE	♦ HDPE Conduit – Schedule 40 Color - Black	♦ 1/2" BDI065BK-UL ♦ 3/4" BDI095BK-UL ♦ 1" BDI115BK-UL ♦ 1 ¼" BDI135BK-UL ♦ 1 ½" BDI165BK-UL ♦ 2" BDI215BK-UL ♦ 3" BDI315BK-UL ♦ 4" BDI414BK-UL

Precast Polymer Concrete Junction Box for Concrete Traffic Barrier			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.strongwell.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ Median Barrier Box ◆ Median Barrier Box – for Concrete Barrier (F-Shape) ◆ Junction Box w/Cover OD – 9 X 11 X 7 ¼” ID – 7 ⅜ X 9 ⅜ X 6 ½”	<ul style="list-style-type: none"> ◆ PC1012B500/PC1012CA00 ◆ PC0516B500/PC0516CA00 ◆ PC0608Z503831 Cover Imprinted “Danger High Voltage – Illumination”

Item 620 – Conductors

General

The following products are pre-qualified for use on projects where Conductors are furnished or installed as required by the item descriptive code. Where splicing materials, insulating materials, GelCaps, fuse holders or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil ◆ 6 AWG & 8AWG Available in Black Only
Encore Wire 1410 Millwood Rd. McKinney, TX 75069 (800) 962-9473 http://www.encorewire.com/	Encore	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 1000 kcmil
Service Wire Company Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil ♦ 6 AWG & 8AWG Available in Black Only
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394 2877 http://www.bussmann.com/	Bussmann	♦ Double-pole ♦ Double-pole	♦ HEX-KW-DRYC – used when no neutral is required ♦ HEN-KW-DRYC – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 sheets are in plan set.
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	♦ Double-pole ♦ Double-pole	♦ 0LEXYYSX – used when no neutral is required ♦ LEXT0YYYSX – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.
Ferraz Shawmut Inc. 374 Merrimac Street Newburyport, MA 01950 (978) 462-6662 http://www.ferrazshawmut.com	Ferraz Shawmut	♦ Double-pole ♦ Double-pole	♦ FEX-91-91-BA – used when no neutral is required ♦ FEXN-91-91-BA – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.

Item 621 – Tray Cable

General

The following products are pre-qualified for use on projects where Tray Cable is furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 500 kcmil
Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 750 kcmil
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 500 kcmil

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ Tray Cable – Power Cable – XLP XHHW Insulation, PVC Jacket, Copper Conductors	♦ Available in 12 AWG -3 and 4 conductor

Item 622 – Duct Cable

General

The following products are pre-qualified for use on projects where Duct Cable is furnished or installed as required by the item descriptive code. Where connectors are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Arnco	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (800) 233-3190 http://www.drakausa.com	Draka	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Item 624 – Ground Boxes

General

The following products are pre-qualified for use on projects where Ground Boxes are furnished or installed as required by descriptive code. Products are subject to testing. No substitutions will be allowed for Types A through E as listed below. For types not listed below, applicable TxDOT standards and specifications will apply.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.strongwell.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PG1324B512 / PG1324H506 ◆ 2PG1324B512 / PG1324H506 ◆ PG1730B512 / PG1730H507 ◆ PG1730B517 / PG1730H507 ◆ PG1324B514 / PG1324H506
		Type D model number changed from 522 to 517. Same box. 522 acceptable to allow for boxes already in stock, until Oct.2008. Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PG1324H5064A (Danger High Voltage FTM) ◆ PG1324H5064B (Danger High Voltage Irrigation) ◆ PG1324H5064D(Danger High Voltage Illumination) ◆ PG1324H5064E (Danger High Voltage Traffic Signal) ◆ PG1324H5064G (Danger High Voltage Sign Lighting) ◆ PG1324H506H7 (Danger High Voltage)
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PG1730H5074A (Danger High Voltage FTM) ◆ PG1730H5064B (Danger High Voltage Irrigation) ◆ PG1730H5074D (Danger High Voltage Illumination) ◆ PG1730H5074E (Danger High Voltage Traffic Signal) ◆ PG1730H5074G (Danger High Voltage Sign Lighting) ◆ PG1730H507H7 (Danger High Voltage)

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Armorcast Products Company 13230 Saticoy St. North Hollywood, CA. 91605 (818) 982-3600 http://www.armorcastprod.com/	Armor cast	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For All Boxes	<ul style="list-style-type: none"> ◆ A6001946TAPCX12 ◆ A6001946TAPCX24 ◆ A6001640TAPCX12 ◆ A6001640TAPCX22 ◆ A6001946TAPCX18 <ul style="list-style-type: none"> ◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
NewBasis 2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747 http://www.newbasis.com/	NewBasis	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ PCB132412G482 ◆ (2) PCB132412G482
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PCC1324DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1324DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PCC1730DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1730DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1730DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1730DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Synertech Moulded Products 2 Inverness St. Candiac, Quebec Canada J5R 4WS Toll Free (888) 868-5214 http://www.synertechproducts.com	Synertech	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ S132412HH90 ◆ S132424HH90 ◆ S173012HH90 ◆ S173024HH90 ◆ S132418HH90
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ S1324HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNAL ◆ S1324HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1324HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1324HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ S1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ S1730HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Carson Industries, LLC. 1160 Nicole Court Glendora, CA. 91740 (800) 735-5566 (909) 592-6272 http://www.carsonind.com/	Carson	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ 13242030 ◆ 13242032
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ 17302061 ◆ 17302063 ◆ 13242031
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 13244156- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 13244158- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 13244171- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 13244170- DANGER HIGH VOLTAGE/LANDSCAPE
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 17304185- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 17304183- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 17304249- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 17305021- DANGER HIGH VOLTAGE/LANDSCAPE

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
CDR Systems Corporation 146 South Atlantic Ave. Ormond Beach, FL. 32176 (386) 615-9510 http://www.cdrsistemas.com/	cdr	◆ A	◆ SB14-1324-12-0287
		◆ B	◆ SB14-1324-12-0287 -2 boxes stacked
		◆ C	◆ SB14-1730-12-0494
		◆ D	◆ SC14-1730-22-0499
		◆ E	◆ SB14-1324-18-0288
		Cover For Type A, B & E	◆ SC12-1324-02
		Cover For Type C & D	◆ SC12-1730-02
		Cover For All Boxes	◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Item 628 – Electrical Service

General

The following products have been tested and are pre-qualified for use on projects where Electrical Services are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Electrical Service			
Manufacturer	Brand	Type	Model
Electrol Systems 10623 Sentinel Drive San Antonio, TX 78217 (210) 599-6485 (888) 853-8944 http://www.electrolsystems.com/	Electrol	<ul style="list-style-type: none"> ◆ A ◆ C ◆ C- Auxiliary Only ◆ D ◆ T- Auxiliary Only ◆ T-All in One ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ ELECTROL TYPE A-TXDOT ◆ ELECTROL TYPE C-TXDOT ◆ ELECTROL TYPE C- Auxiliary Only – TXDOT ◆ ELECTROL TYPE D-TXDOT ◆ ELECTROL TYPE T- Auxiliary Only - TXDOT ◆ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT ◆ ELECTROL TYPE A-PEDESTAL-TXDOT ◆ ELECTROL TYPE D-PEDESTAL-TXDOT
S&J Electric PO Box 121516 Ft Worth, TX 76121 (817) 560-0000 http://www.sj-electric.com/index.html	Stanfield Enterprises Inc.	<ul style="list-style-type: none"> ◆ A ◆ A-Pedestal ◆ C ◆ C- Auxiliary Only ◆ D ◆ D-Pedestal ◆ T- Auxiliary Only ◆ T-All in One 	<ul style="list-style-type: none"> ◆ STANFIELD ENTERPRISE INC. TYPE A-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE A-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C-Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T-ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
WE Manufacturing 5535 Harvey Wilson Drive Houston , TX 77020 (713) 676-2298 (800) 880-9453 http://www.wemanufacturing.com/	WE	♦ A ♦ C ♦ C- Auxiliary Only ♦ D ♦ T- Auxiliary Only ♦ T-All in One ♦ A - Pedestal	♦ WE TYPE A-TXDOT ♦ WE TYPE C-TXDOT ♦ WE TYPE C- Auxiliary Only –TXDOT ♦ WE TYPE D-TXDOT ♦ WE TYPE T- Auxiliary Only –TXDOT ♦ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT ♦ WE TYPE A- PEDESTAL - TXDOT
Mica Corporation P.O. Box 161609 Fort Worth , TX 77020 (817) 847-6121 (817) 577-2088	Mica	♦ A ♦ C ♦ D ♦ T- Auxiliary Only ♦ T-All in One	♦ MICA TYPE A-TXDOT ♦ MICA TYPE C-TXDOT ♦ MICA TYPE D-TXDOT ♦ MICA TYPE T- Auxiliary Only –TXDOT ♦ MICA TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Specialty Control Systems 629 SH 3 League City , TX 77573 (281) 332-0999 http://www.specialtycontrol.com/	SCS	<ul style="list-style-type: none"> ◆ A ◆ D ◆ T-All in One ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ SCS TYPE A-TXDOT ◆ SCS TYPE D-TXDOT ◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ SCS TYPE D-PEDESTAL-TXDOT
Tesco Controls, Inc. 3434 52 nd Ave. Sacramento , CA 95823 (916) 395-8800 http://www.tescocontrols.com/home.htm	Tesco	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ C-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240) ◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480) ◆ TESCO TYPE C-PEDESTAL-TXDOT ◆ TESCO TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Love Electric, Inc. 3128 Spur 124. Tyler , TX 75707 (903) 592-7561	Love	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ A 	<ul style="list-style-type: none"> ◆ LEI TYPE A-PEDESTAL-TXDOT (120/240) ◆ LEI TYPE A-PEDESTAL-TXDOT (240/480) ◆ LEI TYPE A-TXDOT
Myers Power Products, Inc. 725 E. Harrison St. Corona , CA 92879 (951) 520-1900 (866) 696-9377 http://www.myerspwrproducts.com	Myers	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ MEUG16 TYPE A-PEDESTAL-TXDOT ◆ MEUG16 TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Tri-State Electric, Ltd. 4604 Titanic Ave. El Paso , TX 79904 (915) 755-8803	Tri-State	◆ A	◆ TS1000 TYPE A-TXDOT
Associated Starters & Controls 310 Breesport, Ste. D San Antonio , TX 78216 (210) 798-1334 (888) 798-1334	ASC	◆ A ◆ D ◆ A - Pedestal ◆ D - Pedestal	◆ ASC TYPE A-TXDOT ◆ ASC TYPE D-TXDOT ◆ ASC TYPE A-Pedestal - TXDOT ◆ ASC TYPE D-Pedestal - TXDOT

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 or ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI

**Roadway Illumination and Electrical Supplies
Table of Contents**

Materials Pre-qualified for Illumination and Electrical items 610-628
No additional submittals are required for products that are pre-qualified

	<u>Page</u>
Item 610 – Roadway Illumination Assemblies.....	2
Item 613 – High Mast Illumination Pole.....	12
Item 614 – High Mast Illumination Assemblies.....	13
Item 618 – Conduit..... (Includes fittings, junction boxes and expansion joints - Future)	18
Item 620 – Electrical Conductors..... (Includes fuse holders) (and applicable parts for making splices - Future)	24
Item 621 – Tray Cable.....	27
Item 622 – Duct Cable.....	29
Item 624 – Ground Boxes.....	31
Item 628 – Electrical Services.....	37

Notice:

All submittal and corresponding documentation becomes public information.
All manufacturers' products that are listed within this document are pre-qualified.
TxDOT reserves the right to remove any manufacturer or product from this list, at any time. Manufacturers interested in being added to the pre-qualified list should contact Traffic Operations Division.

Item 610 – Roadway Illumination Assemblies

General

The following products are pre-qualified for use on the projects where roadway illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	♦ Induction Fluorescent Underpass Fixture	♦ UDP-165-QL-GR
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	♦ Induction Fluorescent Underpass Fixture – Steel Housing ♦ Induction Fluorescent Underpass Fixture – Aluminum Housing	♦ TS2020-3/3-1-150IND- 277V-R-SSPH-TEXAS ♦ TS2020-*/*-150IND- *Volt-8-SSPH-TDOT- ALUMINUM
ESCO Lighting 3254 N. Kilborn Ave. Chicago, IL 60641 (773) 427-7000 http://www.escolighting.com	ESCO	♦ Induction Fluorescent Underpass Fixture	♦ SP2343

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
H.E. Williams 831 W. Fairview Ave. P.O. Box 837 Carthage, MO 64836 (417) 358-4065 http://www.hew.com	Infinity	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture ◆ BB Box Beam ◆ BD Bridge Deck ◆ UB U-Beam 	<ul style="list-style-type: none"> ◆ ICERL1-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL3-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL5-150S-41K-BAT/CG1-14DEG-UNV <p>New Part Numbers – Same Fixture – October 2006 Old Part Numbers (ICEDC) Phased Out</p>
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Fail-Safe	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ TF28-150ICE-UNV-A1432

Roadway Illumination Assemblies – Luminaire			
Manufacturer	Brand	Type	Model
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Streetworks	<ul style="list-style-type: none"> ◆ 150W HPS- 240/480 Volt ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ OVW15SMJ3DD0004 ◆ OVW25SMG2DD0001 ◆ OVW25SMJ2DD0002 ◆ OVW40SMG2DD0005 ◆ OVW40SMJ2DD0003
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingsystems.com	M4RC	<ul style="list-style-type: none"> ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ M4RC25S7M4GSC2311 or GE Manufacture #168025 ◆ M4RC25S9M4GSC2311 or GE Manufacture #168023 ◆ M4RC40S7M4GSC3311 or GE Manufacture #157785 ◆ M4RC40S9M4GSC3311 or GE Manufacture #158165

Item 610 – Roadway Illumination Assemblies

General

Roadway Illumination Poles do not need to be pre-qualified when TxDOT RIP-07(Roadway Illumination Poles -2007) standard sheets are included in the plan set.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of Item 610 and applicable Special Provisions to Item 610.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP-07 (Roadway Illumination Poles -2007). Poles fabricated according to RIP-07 require no shop drawings.

Alternate designs to RIP-07 or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on submitting shop drawings electronically go to:

<http://www.dot.state.tx.us/publications/bridge.htm>

File is titled: Guide to Electronic Shop Drawing Submittal.

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
<p>Valmont Industries, Inc.</p> <p>7002 N. 288th St. P.O. Box 358 Valley, NE 68064-0358 (402) 359-2201</p> <p>http://www.valmont.com/</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Barrier Mount ◆ 30-50 Ft.-Steel Pole Bridge Mount 	<ul style="list-style-type: none"> ◆ All Poles Based on Drawing # DB00388 Sheet 1 of 2 Revision Date 6-24-02 ◆ All Anchor Bolt Details Based on Drawing # DB00388 Sheet 2 of 2 Revision Dated 6-24-02
<p>Union Metal Corporation</p> <p>1432 Maple Ave., NE P.O. Box 9920 Canton, OH 44705 (330) 456-7653</p> <p>http://www.unionmetal.com/</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # T1408-B2 – Sheet 1 of 2 Revision Date 11-8-02 & #T1408-B2 – Sheet 2 of 2 Dated 1-11-00 Anchor Bolt Details Based on Drawing # AA8 & AA3A – No Date ◆ Based on Drawing # T1406-B4 – Sheet 1 of 2 Revision Date 11-8-02 & #T1404-B4 – Sheet 2 of 2 Dated 1-26-00 Anchor Bolt Details Based on Drawing # A2A & A2D – Revision Date 11-8-02 ◆ Based on Drawing # T1406-B3 – Sheet 1 of 2 Revision Date 11-8-02 & #T1406-B3 – Sheet 2 of 2 Dated 1-14-00 Anchor Bolt Details Based on Drawing # AA9 & AA2A – Revision Date 11-8-02

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Hapco 26252 Hillman Highway Abingdon, VA 24210 (800) 368-7171 http://www.hapco.com/		<ul style="list-style-type: none"> ◆ 40 Ft.-Aluminum with 8Ft. Arm Only 	<ul style="list-style-type: none"> ◆ Based on Drawing # B82627 and B83058
Whitco Poles 7700 Wyatt Drive Ft. Worth, TX 76108 (800) 433-7753 http://www.whitcoples.com		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # TX-DOT-003 ◆ Based on Drawing # TX-DOT-001 ◆ Based on Drawing # TX-DOT-002

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
<p>Millerbernd Manufacturing, Co. 622 6th. Street South P.O. Box 98 Winsted, MN 55395 (320) 485-2111 http://www.millerberndmfg.com</p>		<ul style="list-style-type: none"> ◆ 30 Ft.-Steel Pole Transformer Base ◆ 40 Ft.-Steel Pole Transformer Base ◆ 50 Ft.-Steel Pole Transformer Base ◆ 30 Ft.-Steel Pole Shoe Base ◆ 40 Ft.-Steel Pole Shoe Base ◆ 50 Ft.-Steel Pole Shoe Base ◆ 30 Ft.-Steel Pole Barrier Mount ◆ 40 Ft.-Steel Pole Barrier Mount ◆ 50 Ft.-Steel Pole Barrier Mount ◆ 30 Ft.-Requisition Pole ◆ 40 Ft.-Requisition Pole ◆ 50 Ft.-Requisition Pole 	<ul style="list-style-type: none"> ◆ Based on Drawing # 730B588 Sheet 1 of 1 Revision Date 6-15-05 ◆ Based on Drawing # 730B586 Sheet 1 of 1 Revision Date 6-3-05 ◆ Based on Drawing # 730B587 Sheet 1 of 1 Revision Date 6-3-05 ◆ Based on Drawing # 730B694 Sheet 1 of 1 Revision Date 9-26-05 ◆ Based on Drawing # 730B691 Sheet 1 of 1 Revision Date 9-26-05 ◆ Based on Drawing # 730B693 Sheet 1 of 1 Revision Date 9-26-05 ◆ Based on Drawing # 730B589 Sheet 1 of 1 Revision Date 6-28-05 ◆ Based on Drawing # 730B590 Sheet 1 of 1 Revision Date 6-28-05 ◆ Based on Drawing # 730B591 Sheet 1 of 1 Revision Date 6-28-05 ◆ Based on Drawing # 730B707 Sheet 1 of 1 Date 7-13-05 ◆ Based on Drawing # 730B643 Sheet 1 of 1 Revision Date 6-16-05 ◆ Based on Drawing # 730B644 Sheet 1 of 1 Revision Date 6-16-05

High Pressure Sodium Lamps			
Manufacturer	Brand	Type	Model
Osram Sylvania 100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828 http://www.sylvania.com/	Sylvania - Lumalux Plus®/ECO	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 67312 - LU400/PLUS/ECO ◆ 67572 - LU250/PLUS/ECO ◆ 67494 - LU150/55/PLUS/ECO

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI
American Electric Lighting / DTL P.O. Box 3004 Newark, OH 43800 (800) 754-0463 http://www.darktolight.com	DTL	◆ 120-277 Volt Photocell	◆ DUX124 -12A30

Breakaway Fuse-holders

Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394-2877 http://www.bussmann.com/	Bussmann	♦ Double-pole ♦ Double-pole	♦ HEX-KW-DRYC – used when no neutral is required ♦ HEN-KW-DRYC – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	♦ Double-pole ♦ Double-pole	♦ OLEXYYSX – used when no neutral is required ♦ LEXT0YYSX – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.
Ferraz Shawmut Inc. 374 Merrimac Street Newburyport, MA 01950 (978) 462-6662 http://www.ferrazshawmut.com	Ferraz Shawmut	♦ Double-pole ♦ Double-pole	♦ FEX-91-91-BA – used when no neutral is required ♦ FEXN-91-91-BA – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.

Item 613 – High Mast Illumination Poles

General

There are no pre-qualified High Mast Illumination Poles.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of item 613. Provide components that fit together properly.

- (a) **Alternate Design.** Approval must be obtained for alternate designs. Obtain approval to eliminate the ground sleeve (with associated changes to the base plate bolt circle) or to significantly modify the access hole ring by testing a full-scale specimen of the base section. Support the specimen at the base plate on double-nutted anchor bolts. Load the specimen to produce maximum compression on the access hole ring. Provide test results that clearly demonstrate the specimen can develop the factored moment capacity (load factor of 1.38 multiplied by wind factor of 1.4 multiplied by F_b) which is approximately the full plastic bending capacity. Once a fabricator obtains approval for modified details, this approval extends to all future TxDOT projects.
- (b) **Shop Drawings.** Do not provide shop drawings for high mast illumination poles fabricated in accordance with this Item and the plans. Provide shop drawings for alternate designs. The submission of shop drawings is only required the first time each alternate design is used. Submit seven sets of shop drawings to the Bridge Division.

Item 614 – High Mast Illumination Assemblies

General

The following products are pre-qualified for use on the projects where high mast illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Luminaire – High Mast			
Manufacturer	Brand	Type	Model
Holophane 214 Oakwood Ave. Newark, OH 43055 (740) 345-9631 (512) 791-7982 http://www.holophane.com	High Mast Cutoff-HMSC High Mast Dark Skies-HMSD	<ul style="list-style-type: none"> ◆ High Mast – Type B ◆ High Mast – Type S Type A and C Removed From List. 4-26-07	<ul style="list-style-type: none"> ◆ HMSC40RHP48BTX03 ◆ HMSD40RHP48STX03 Type A and C Removed From List. 4-26-07
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingsystems.com	G.E.	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ 159189 ◆ 159190 ◆ 159191 ◆ 159193
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Streetworks	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ GMA40SM83DD0018 ◆ GMA40SM83DD0019 ◆ GMA40SM83DD0020 ◆ GMA40SM8ARD0017

High Mast Kit

Manufacturer	Brand	Type	Model
Mica Corporation 5750 N. Riverside Dr. Fort Worth, TX 76137 (817) 577-2088 http://www.micacorporation.com	Mica Corporation	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-PH ♦ HMK-150-PH ♦ HMK -175-PH
Carolina High Mast, Inc. 700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046	Carolina High Mast, Inc.	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-CHMI ♦ HMK-150-CHMI ♦ HMK -175-CHMI
Rexel 2400 Brockton San Antonio, TX 78217 (210) 352-1047 http://www.rexelusa.com	Rexel	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-RX ♦ HMK-150-RX ♦ HMK -175-RX

High Mast Kit

Manufacturer	Brand	Type	Model
Wildcat Electric Supply, Ltd. 2061 Clovis Barker Road #5. San Marcos, TX 77666 (512) 396-8900 (866) 301-5200 http://www.wildcatelectric.com	Wildcat	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-WC ◆ HMK-150-WC ◆ HMK -175-WC

High Mast Ring- Previously Approved Shop Drawings

Manufacturer		Type	
<p>J.W. Hall Enterprises, Inc.</p> <p>17731 Elizabeth Rd. Algoa, TX 77511 (281) 337-6311</p> <p>http://www.jwhall.com</p>		<p>◆ High Mast Ring</p> <p>Drawing # HM 2002-01 Sheets 1 through 6 Drawing # HE 2002 Sheets 7 through 9</p>	
<p>Carolina High Mast, Inc.</p> <p>700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046</p>		<p>◆ High Mast Ring</p> <p>Drawing # TXDOT-01 Sheets 1 through 5 Drawing # TXDOT-02 Sheets 1 through 4 Drawing # TXDOT-03 Sheets 1 through 4 Drawing # TXDOT-04 Sheets 1 through 3</p>	
<p>Traffic Control Devices</p> <p>4417 Main Street Pearland, TX 77581 (281) 992-3030</p> <p>http://www.tcd.cc</p>		<p>◆ High Mast Ring</p> <p>Drawing # E-901 Sheets 1 through 10</p>	

High Mast Ring- Previously Approved Shop Drawings			
Manufacturer		Type	
Brookfield Fabricating Corp. Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214		♦ High Mast Ring Drawings Dated 4-8-96 Sheets 1 through 4	
PKM Steel Service 228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638 http://www.pkmsteel.com/		♦ High Mast Ring Sheet E1 Dated 8-2-05 Sheet 1 Dated 10-12-05 Sheet 2 Dated 10-12-05 Sheet 3 Dated 10-12-05	

Item 618 – Conduit

General

The following products have been tested and are pre-qualified for use on projects where Conduit, Junction Boxes, Expansion Joints and Conduit Fittings are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Rigid Metallic Conduit – (RMC)			
Manufacturer	Brand	Type	Model
Allied 16100 S. Lathrop Avenue Harvey, IL 60426-6021 (800) 882-5543 http://www.alliedtube.com	Allied	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
Wheatland 900 Haddon Avenue P.O. Box 600 Collingswood, NJ 08108-0600 (800) 257-8182 http://www.wheatland.com/	Wheatland	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)			
Manufacturer	Brand	Type	Model
Cantex P.O. Box 340 Mineral Wells, TX 76068 (940) 325-3344 (800) 433-5623 http://www.cantexinc.com/	Cantex	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Georgia Pipe Company 1206 Sunset Drive P.O. Box 2235 Thomasville, GA 31799 (229) 226-7337 http://www.alliedtube.com/	Georgia Pipe	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	J-M PVC Conduits	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Lansom & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlon	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)

Manufacturer	Brand	Type	Model
National Pipe & Plastics, Inc. 3421 Old Vestal Road Vestal, NY 13850 (800) 836-4350 http://www.nationalpipe.com/	NPPI PVC	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791 http://www.heritageplastics.com/	Heritage	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
PW Eagle, Inc. P.O. Box 10049 Eugene, OR 97477 (800) 347-0200 http://www.pweaglepipe.com	PW Eagle	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Perma-Guard/ UL	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SW 400 050 N000-UL ◆ 3/4" SW 400 075 N000-UL ◆ 1" SW 400 100 N000-UL ◆ 2" SW 400 200 N000-UL ◆ 3" SW 400 300 N000-UL
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line – Smoothwall	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SCH-40 (0538-11007-0000000) ◆ 3/4" SCH-40 (0738-11007-0000000) ◆ 1" SCH-40 (1038-11007-0000000) ◆ 1.25" SCH-40 (1238-11007-0000000) ◆ 1.50" SCH-40 (1538-11007-0000000) ◆ 2" SCH-40 (2038-11007-0000000) ◆ 3" SCH-40 (3038-11007-0000000) ◆ 4" SCH-40 (3538-11007-0000000) ◆ 5" SCH-40 (3638-11007-0000000) ◆ 6" SCH-40 (3738-11007-0000000)
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	HDPE ® - HDPE Duct/Inner Duct	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1 ¼" 1.25 7.5M S40 BLK ◆ 1 ½" 1.5 6M S40 BLK ◆ 2" 2 3M S40 BLK ◆ 3" 3 1M S40 BLK ◆ 4" 4 725M S40 BLK
Lamson & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlton/UL Listed HDPE	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" U2C4-UV ◆ 3/4" U3C4-UV ◆ 1" U5C4-UV ◆ 1 ¼" U6C4-UV ◆ 1 ½" U9C4-UV ◆ 2" U13C4-UV ◆ 3" U15C4-UV ◆ 4" U16C4-UV

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Rinker Materials P.O. Box 390 Gainsville, TX 76240 (800) 433-5632 http://www.rinker.com/	PolyPipe® HDPE Duct Pipe	♦ HDPE Conduit – Schedule 40 Color - Black	♦ PolyPipe® EHMW – PE3408 ½” to 4”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond HDPE	♦ HDPE Conduit – Schedule 40 Color - Black	♦ 1/2" BDI065BK-UL ♦ 3/4" BDI095BK-UL ♦ 1" BDI115BK-UL ♦ 1 ¼" BDI135BK-UL ♦ 1 ½" BDI165BK-UL ♦ 2" BDI215BK-UL ♦ 3" BDI315BK-UL ♦ 4" BDI414BK-UL

Precast Polymer Concrete Junction Box for Concrete Traffic Barrier			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.strongwell.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ Median Barrier Box ◆ Median Barrier Box – for Concrete Barrier (F-Shape) ◆ Junction Box w/Cover OD – 9 X 11 X 7 ¼” ID – 7 ⅜ X 9 ⅜ X 6 ½”	<ul style="list-style-type: none"> ◆ PC1012B500/PC1012CA00 ◆ PC0516B500/PC0516CA00 ◆ PC0608Z503831 Cover Imprinted “Danger High Voltage – Illumination”

Item 620 – Conductors

General

The following products are pre-qualified for use on projects where Conductors are furnished or installed as required by the item descriptive code. Where splicing materials, insulating materials, GelCaps, fuse holders or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil ◆ 6 AWG & 8AWG Available in Black Only
Encore Wire 1410 Millwood Rd. McKinney, TX 75069 (800) 962-9473 http://www.encorewire.com/	Encore	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 1000 kcmil
Service Wire Company Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil ♦ 6 AWG & 8AWG Available in Black Only
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394 2877 http://www.bussmann.com/	Bussmann	♦ Double-pole ♦ Double-pole	♦ HEX-KW-DRYC – used when no neutral is required ♦ HEN-KW-DRYC – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 sheets are in plan set.
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	♦ Double-pole ♦ Double-pole	♦ 0LEXYYSX – used when no neutral is required ♦ LEXT0YYYSX – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.
Ferraz Shawmut Inc. 374 Merrimac Street Newburyport, MA 01950 (978) 462-6662 http://www.ferrazshawmut.com	Ferraz Shawmut	♦ Double-pole ♦ Double-pole	♦ FEX-91-91-BA – used when no neutral is required ♦ FEXN-91-91-BA – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.

Item 621 – Tray Cable

General

The following products are pre-qualified for use on projects where Tray Cable is furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 500 kcmil
Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 750 kcmil
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 500 kcmil

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ Tray Cable – Power Cable – XLP XHHW Insulation, PVC Jacket, Copper Conductors	♦ Available in 12 AWG -3 and 4 conductor

Item 622 – Duct Cable

General

The following products are pre-qualified for use on projects where Duct Cable is furnished or installed as required by the item descriptive code. Where connectors are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Arnco	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (800) 233-3190 http://www.drakausa.com	Draka	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Item 624 – Ground Boxes

General

The following products are pre-qualified for use on projects where Ground Boxes are furnished or installed as required by descriptive code. Products are subject to testing. No substitutions will be allowed for Types A through E as listed below. For types not listed below, applicable TxDOT standards and specifications will apply.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.strongwell.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PG1324B512 / PG1324H506 ◆ 2PG1324B512 / PG1324H506 ◆ PG1730B512 / PG1730H507 ◆ PG1730B517 / PG1730H507 ◆ PG1324B514 / PG1324H506
		Type D model number changed from 522 to 517. Same box. 522 acceptable to allow for boxes already in stock, until Oct.2008. Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PG1324H5064A (Danger High Voltage FTM) ◆ PG1324H5064B (Danger High Voltage Irrigation) ◆ PG1324H5064D(Danger High Voltage Illumination) ◆ PG1324H5064E (Danger High Voltage Traffic Signal) ◆ PG1324H5064G (Danger High Voltage Sign Lighting) ◆ PG1324H506H7 (Danger High Voltage)
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PG1730H5074A (Danger High Voltage FTM) ◆ PG1730H5064B (Danger High Voltage Irrigation) ◆ PG1730H5074D (Danger High Voltage Illumination) ◆ PG1730H5074E (Danger High Voltage Traffic Signal) ◆ PG1730H5074G (Danger High Voltage Sign Lighting) ◆ PG1730H507H7 (Danger High Voltage)

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Armorcast Products Company 13230 Saticoy St. North Hollywood, CA. 91605 (818) 982-3600 http://www.armorcastprod.com/	Armor cast	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For All Boxes	<ul style="list-style-type: none"> ◆ A6001946TAPCX12 ◆ A6001946TAPCX24 ◆ A6001640TAPCX12 ◆ A6001640TAPCX22 ◆ A6001946TAPCX18 <ul style="list-style-type: none"> ◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
NewBasis 2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747 http://www.newbasis.com/	NewBasis	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ PCB132412G482 ◆ (2) PCB132412G482
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PCC1324DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1324DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PCC1730DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1730DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1730DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1730DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Synertech Moulded Products 2 Inverness St. Candiac, Quebec Canada J5R 4WS Toll Free (888) 868-5214 http://www.synertechproducts.com	Synertech	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ S132412HH90 ◆ S132424HH90 ◆ S173012HH90 ◆ S173024HH90 ◆ S132418HH90
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ S1324HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNAL ◆ S1324HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1324HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1324HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ S1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ S1730HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Carson Industries, LLC. 1160 Nicole Court Glendora, CA. 91740 (800) 735-5566 (909) 592-6272 http://www.carsonind.com/	Carson	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ 13242030 ◆ 13242032
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ 17302061 ◆ 17302063 ◆ 13242031
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 13244156- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 13244158- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 13244171- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 13244170- DANGER HIGH VOLTAGE/LANDSCAPE
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 17304185- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 17304183- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 17304249- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 17305021- DANGER HIGH VOLTAGE/LANDSCAPE

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
CDR Systems Corporation 146 South Atlantic Ave. Ormond Beach, FL. 32176 (386) 615-9510 http://www.cdrsistemas.com/	cdr	◆ A	◆ SB14-1324-12-0287
		◆ B	◆ SB14-1324-12-0287 -2 boxes stacked
		◆ C	◆ SB14-1730-12-0494
		◆ D	◆ SC14-1730-22-0499
		◆ E	◆ SB14-1324-18-0288
		Cover For Type A, B & E	◆ SC12-1324-02
		Cover For Type C & D	◆ SC12-1730-02
		Cover For All Boxes	◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Item 628 – Electrical Service

General

The following products have been tested and are pre-qualified for use on projects where Electrical Services are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Electrical Service			
Manufacturer	Brand	Type	Model
Electrol Systems 10623 Sentinel Drive San Antonio, TX 78217 (210) 599-6485 (888) 853-8944 http://www.electrolsystems.com/	Electrol	<ul style="list-style-type: none"> ◆ A ◆ C ◆ C- Auxiliary Only ◆ D ◆ T- Auxiliary Only ◆ T-All in One ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ ELECTROL TYPE A-TXDOT ◆ ELECTROL TYPE C-TXDOT ◆ ELECTROL TYPE C- Auxiliary Only – TXDOT ◆ ELECTROL TYPE D-TXDOT ◆ ELECTROL TYPE T- Auxiliary Only - TXDOT ◆ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT ◆ ELECTROL TYPE A-PEDESTAL-TXDOT ◆ ELECTROL TYPE D-PEDESTAL-TXDOT
S&J Electric PO Box 121516 Ft Worth, TX 76121 (817) 560-0000 http://www.sj-electric.com/index.html	Stanfield Enterprises Inc.	<ul style="list-style-type: none"> ◆ A ◆ A-Pedestal ◆ C ◆ C- Auxiliary Only ◆ D ◆ D-Pedestal ◆ T- Auxiliary Only ◆ T-All in One 	<ul style="list-style-type: none"> ◆ STANFIELD ENTERPRISE INC. TYPE A-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE A-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C- Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
WE Manufacturing 5535 Harvey Wilson Drive Houston , TX 77020 (713) 676-2298 (800) 880-9453 http://www.wemanufacturing.com/	WE	♦ A ♦ C ♦ C- Auxiliary Only ♦ D ♦ T- Auxiliary Only ♦ T-All in One ♦ A - Pedestal	♦ WE TYPE A-TXDOT ♦ WE TYPE C-TXDOT ♦ WE TYPE C- Auxiliary Only –TXDOT ♦ WE TYPE D-TXDOT ♦ WE TYPE T- Auxiliary Only –TXDOT ♦ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT ♦ WE TYPE A- PEDESTAL - TXDOT
Mica Corporation P.O. Box 161609 Fort Worth , TX 77020 (817) 847-6121 (817) 577-2088	Mica	♦ A ♦ C ♦ D ♦ T- Auxiliary Only ♦ T-All in One	♦ MICA TYPE A-TXDOT ♦ MICA TYPE C-TXDOT ♦ MICA TYPE D-TXDOT ♦ MICA TYPE T- Auxiliary Only –TXDOT ♦ MICA TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Specialty Control Systems 629 SH 3 League City , TX 77573 (281) 332-0999 http://www.specialtycontrol.com/	SCS	<ul style="list-style-type: none"> ◆ A ◆ D ◆ T-All in One ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ SCS TYPE A-TXDOT ◆ SCS TYPE D-TXDOT ◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ SCS TYPE D-PEDESTAL-TXDOT
Tesco Controls, Inc. 3434 52 nd Ave. Sacramento , CA 95823 (916) 395-8800 http://www.tescocontrols.com/home.htm	Tesco	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ C-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240) ◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480) ◆ TESCO TYPE C-PEDESTAL-TXDOT ◆ TESCO TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Love Electric, Inc. 3128 Spur 124. Tyler , TX 75707 (903) 592-7561	Love	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ A 	<ul style="list-style-type: none"> ◆ LEI TYPE A-PEDESTAL-TXDOT (120/240) ◆ LEI TYPE A-PEDESTAL-TXDOT (240/480) ◆ LEI TYPE A-TXDOT
Myers Power Products, Inc. 725 E. Harrison St. Corona , CA 92879 (951) 520-1900 (866) 696-9377 http://www.myerspwrproducts.com	Myers	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ MEUG16 TYPE A-PEDESTAL-TXDOT ◆ MEUG16 TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Tri-State Electric, Ltd. 4604 Titanic Ave. El Paso , TX 79904 (915) 755-8803	Tri-State	◆ A	◆ TS1000 TYPE A-TXDOT
Associated Starters & Controls 310 Breesport, Ste. D San Antonio , TX 78216 (210) 798-1334 (888) 798-1334	ASC	◆ A ◆ D ◆ A - Pedestal ◆ D - Pedestal	◆ ASC TYPE A-TXDOT ◆ ASC TYPE D-TXDOT ◆ ASC TYPE A-PEDESTAL - TXDOT ◆ ASC TYPE D-PEDESTAL - TXDOT

Electrical Service

Manufacturer	Brand	Type	Model
<p>Milbank Manufacturing Co. 4801 Deramus Kansas City , MO 64120 (816) 483-5314 (Main Switch Board) (660) 463-0800 (Commercial Pedestal) http://milbankmfg.com</p>	<p>Milbank</p>	<p>◆ A - Pedestal ◆ A - Pedestal ◆ D - Pedestal</p>	<p>◆ MB TYPE A-PEDESTAL –TXDOT (120/240) ◆ MB TYPE A-PEDESTAL –TXDOT (240/480) ◆ MB TYPE D-PEDESTAL –TXDOT (120/240)</p>

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 or ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI
American Electric Lighting / DTL P.O. Box 3004 Newark, OH 43800 (800) 754-0463 http://www.darktolight.com	DTL	◆ 120-277 Volt Photocell	◆ DUX124 -12A30

**Roadway Illumination and Electrical Supplies
Table of Contents**

Materials Pre-qualified for Illumination and Electrical items 610-628
No additional submittals are required for products that are pre-qualified

	<u>Page</u>
Item 610 – Roadway Illumination Assemblies.....	2
Item 613 – High Mast Illumination Pole.....	12
Item 614 – High Mast Illumination Assemblies.....	13
Item 618 – Conduit..... (Includes fittings, junction boxes and expansion joints - Future)	18
Item 620 – Electrical Conductors..... (Includes fuse holders) (and applicable parts for making splices - Future)	24
Item 621 – Tray Cable.....	27
Item 622 – Duct Cable.....	29
Item 624 – Ground Boxes.....	31
Item 628 – Electrical Services.....	37

Notice:

All submittal and corresponding documentation becomes public information.
All manufacturers' products that are listed within this document are pre-qualified.
TxDOT reserves the right to remove any manufacturer or product from this list, at any time. Manufacturers interested in being added to the pre-qualified list should contact Traffic Operations Division.

Item 610 – Roadway Illumination Assemblies

General

The following products are pre-qualified for use on the projects where roadway illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	♦ Induction Fluorescent Underpass Fixture	♦ UDP-165-QL-GR
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	♦ Induction Fluorescent Underpass Fixture – Steel Housing ♦ Induction Fluorescent Underpass Fixture – Aluminum Housing	♦ TS2020-3/3-1-150IND- 277V-R-SSPH-TEXAS ♦ TS2020-*/*-150IND- *Volt-8-SSPH-TDOT- ALUMINUM
ESCO Lighting 3254 N. Kilborn Ave. Chicago, IL 60641 (773) 427-7000 http://www.escolighting.com	ESCO	♦ Induction Fluorescent Underpass Fixture	♦ SP2343

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
<p>H.E. Williams</p> <p>831 W. Fairview Ave. P.O. Box 837 Carthage, MO 64836 (417) 358-4065</p> <p>http://www.hew.com</p>	<p>Infinity</p>	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture ◆ BB Box Beam ◆ BD Bridge Deck ◆ UB U-Beam 	<ul style="list-style-type: none"> ◆ ICERL1-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL3-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL5-150S-41K-BAT/CG1-14DEG-UNV <p>New Part Numbers – Same Fixture – October 2006 Old Part Numbers (ICEDC) Phased Out</p>
<p>Cooper</p> <p>1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800</p> <p>http://www.cooperlighting.com</p>	<p>Fail-Safe</p>	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ TF28-150ICE-UNV-A1432

Roadway Illumination Assemblies – Luminaire			
Manufacturer	Brand	Type	Model
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Streetworks	<ul style="list-style-type: none"> ◆ 150W HPS- 240/480 Volt ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ OVW15SMJ3DD0004 ◆ OVW25SMG2DD0001 ◆ OVW25SMJ2DD0002 ◆ OVW40SMG2DD0005 ◆ OVW40SMJ2DD0003
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingsystems.com	M4RC	<ul style="list-style-type: none"> ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ M4RC25S7M4GSC2311 or GE Manufacture #168025 ◆ M4RC25S9M4GSC2311 or GE Manufacture #168023 ◆ M4RC40S7M4GSC3311 or GE Manufacture #157785 ◆ M4RC40S9M4GSC3311 or GE Manufacture #158165

Item 610 – Roadway Illumination Assemblies

General

Roadway Illumination Poles do not need to be pre-qualified when TxDOT RIP-07(Roadway Illumination Poles -2007) standard sheets are included in the plan set.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of Item 610 and applicable Special Provisions to Item 610.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP-07 (Roadway Illumination Poles -2007). Poles fabricated according to RIP-07 require no shop drawings.

Alternate designs to RIP-07 or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on submitting shop drawings electronically go to:

<http://www.dot.state.tx.us/publications/bridge.htm>

File is titled: Guide to Electronic Shop Drawing Submittal.

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
<p>Valmont Industries, Inc.</p> <p>7002 N. 288th St. P.O. Box 358 Valley, NE 68064-0358 (402) 359-2201</p> <p>http://www.valmont.com/</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Barrier Mount ◆ 30-50 Ft.-Steel Pole Bridge Mount 	<ul style="list-style-type: none"> ◆ All Poles Based on Drawing # DB00388 Sheet 1 of 2 Revision Date 6-24-02 ◆ All Anchor Bolt Details Based on Drawing # DB00388 Sheet 2 of 2 Revision Dated 6-24-02
<p>Union Metal Corporation</p> <p>1432 Maple Ave., NE P.O. Box 9920 Canton, OH 44705 (330) 456-7653</p> <p>http://www.unionmetal.com/</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # T1408-B2 – Sheet 1 of 2 Revision Date 11-8-02 & #T1408-B2 – Sheet 2 of 2 Dated 1-11-00 Anchor Bolt Details Based on Drawing # AA8 & AA3A – No Date ◆ Based on Drawing # T1406-B4 – Sheet 1 of 2 Revision Date 11-8-02 & #T1404-B4 – Sheet 2 of 2 Dated 1-26-00 Anchor Bolt Details Based on Drawing # A2A & A2D – Revision Date 11-8-02 ◆ Based on Drawing # T1406-B3 – Sheet 1 of 2 Revision Date 11-8-02 & #T1406-B3 – Sheet 2 of 2 Dated 1-14-00 Anchor Bolt Details Based on Drawing # AA9 & AA2A – Revision Date 11-8-02

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Hapco 26252 Hillman Highway Abingdon, VA 24210 (800) 368-7171 http://www.hapco.com/		<ul style="list-style-type: none"> ◆ 40 Ft.-Aluminum with 8Ft. Arm Only 	<ul style="list-style-type: none"> ◆ Based on Drawing # B82627 and B83058
Whitco Poles 7700 Wyatt Drive Ft. Worth, TX 76108 (800) 433-7753 http://www.whitcoples.com		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # TX-DOT-003 ◆ Based on Drawing # TX-DOT-001 ◆ Based on Drawing # TX-DOT-002

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Millerbernd Manufacturing, Co. 622 6th. Street South P.O. Box 98 Winsted, MN 55395 (320) 485-2111 http://www.millerberndmfg.com		◆ 30 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B588 Sheet 1 of 1 Revision Date 6-15-05
		◆ 40 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B586 Sheet 1 of 1 Revision Date 6-3-05
		◆ 50 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B587 Sheet 1 of 1 Revision Date 6-3-05
		◆ 30 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B694 Sheet 1 of 1 Revision Date 9-26-05
		◆ 40 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B691 Sheet 1 of 1 Revision Date 9-26-05
		◆ 50 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B693 Sheet 1 of 1 Revision Date 9-26-05
		◆ 30 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B589 Sheet 1 of 1 Revision Date 6-28-05
		◆ 40 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B590 Sheet 1 of 1 Revision Date 6-28-05
		◆ 50 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B591 Sheet 1 of 1 Revision Date 6-28-05
		◆ 30 Ft.-Requisition Pole	◆ Based on Drawing # 730B707 Sheet 1 of 1 Date 7-13-05
		◆ 40 Ft.-Requisition Pole	◆ Based on Drawing # 730B643 Sheet 1 of 1 Revision Date 6-16-05
		◆ 50 Ft.-Requisition Pole	◆ Based on Drawing # 730B644 Sheet 1 of 1 Revision Date 6-16-05

High Pressure Sodium Lamps			
Manufacturer	Brand	Type	Model
Osram Sylvania 100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828 http://www.sylvania.com/	Sylvania - Lumalux Plus®/ECO	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 67312 - LU400/PLUS/ECO ◆ 67572 - LU250/PLUS/ECO ◆ 67494 - LU150/55/PLUS/ECO

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI
American Electric Lighting / DTL P.O. Box 3004 Newark, OH 43800 (800) 754-0463 http://www.darktolight.com	DTL	◆ 120-277 Volt Photocell	◆ DUX124 -12A30
Tyco Electronics 8000 Purfoy Rd. Fuquay-Varina, NC 27526 (919) 557-8459 http://www.tycoelectronics.com/	Tyco	◆ 120-277 Volt Photocell	◆ ALR-SST-PV-IES-UL (3E7425-000)

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394-2877 http://www.bussmann.com/	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 0LEXYCSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>
Ferraz Shawmut Inc. 374 Merrimac Street Newburyport, MA 01950 (978) 462-6662 http://www.ferrazshawmut.com	Ferraz Shawmut	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ FEX-91-91-BA – used when no neutral is required ◆ FEXN-91-91-BA – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>

Item 613 – High Mast Illumination Poles

General

There are no pre-qualified High Mast Illumination Poles.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of item 613. Provide components that fit together properly.

- (a) **Alternate Design.** Approval must be obtained for alternate designs. Obtain approval to eliminate the ground sleeve (with associated changes to the base plate bolt circle) or to significantly modify the access hole ring by testing a full-scale specimen of the base section. Support the specimen at the base plate on double-nutted anchor bolts. Load the specimen to produce maximum compression on the access hole ring. Provide test results that clearly demonstrate the specimen can develop the factored moment capacity (load factor of 1.38 multiplied by wind factor of 1.4 multiplied by F_b) which is approximately the full plastic bending capacity. Once a fabricator obtains approval for modified details, this approval extends to all future TxDOT projects.
- (b) **Shop Drawings.** Do not provide shop drawings for high mast illumination poles fabricated in accordance with this Item and the plans. Provide shop drawings for alternate designs. The submission of shop drawings is only required the first time each alternate design is used. Submit seven sets of shop drawings to the Bridge Division.

Item 614 – High Mast Illumination Assemblies

General

The following products are pre-qualified for use on the projects where high mast illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Luminaire – High Mast			
Manufacturer	Brand	Type	Model
Holophane 214 Oakwood Ave. Newark, OH 43055 (740) 345-9631 (512) 791-7982 http://www.holophane.com	High Mast Cutoff-HMSC High Mast Dark Skies-HMSD	<ul style="list-style-type: none"> ◆ High Mast – Type B ◆ High Mast – Type S Type A and C Removed From List. 4-26-07	<ul style="list-style-type: none"> ◆ HMSC40RHP48BTX03 ◆ HMSD40RHP48STX03 Type A and C Removed From List. 4-26-07
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingssystem.com	G.E.	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ 159189 ◆ 159190 ◆ 159191 ◆ 159193
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Streetworks	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ GMA40SM83DD0018 ◆ GMA40SM83DD0019 ◆ GMA40SM83DD0020 ◆ GMA40SM8ARD0017

High Mast Kit

Manufacturer	Brand	Type	Model
Mica Corporation 5750 N. Riverside Dr. Fort Worth, TX 76137 (817) 577-2088 http://www.micacorporation.com	Mica Corporation	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-PH ♦ HMK-150-PH ♦ HMK -175-PH
Carolina High Mast, Inc. 700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046	Carolina High Mast, Inc.	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-CHMI ♦ HMK-150-CHMI ♦ HMK -175-CHMI
Rexel 2400 Brockton San Antonio, TX 78217 (210) 352-1047 http://www.rexelusa.com	Rexel	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-RX ♦ HMK-150-RX ♦ HMK -175-RX

High Mast Kit

Manufacturer	Brand	Type	Model
Wildcat Electric Supply, Ltd. 2061 Clovis Barker Road #5. San Marcos, TX 77666 (512) 396-8900 (866) 301-5200 http://www.wildcatelectric.com	Wildcat	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-WC ♦ HMK-150-WC ♦ HMK -175-WC

High Mast Ring- Previously Approved Shop Drawings

Manufacturer		Type	
<p>J.W. Hall Enterprises, Inc.</p> <p>17731 Elizabeth Rd. Algoa, TX 77511 (281) 337-6311</p> <p>http://www.jwhall.com</p>		<p>◆ High Mast Ring</p> <p>Drawing # HM 2002-01 Sheets 1 through 6 Drawing # HE 2002 Sheets 7 through 9</p>	
<p>Carolina High Mast, Inc.</p> <p>700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046</p>		<p>◆ High Mast Ring</p> <p>Drawing # TXDOT-01 Sheets 1 through 5 Drawing # TXDOT-02 Sheets 1 through 4 Drawing # TXDOT-03 Sheets 1 through 4 Drawing # TXDOT-04 Sheets 1 through 3</p>	
<p>Traffic Control Devices</p> <p>4417 Main Street Pearland, TX 77581 (281) 992-3030</p> <p>http://www.tcd.cc</p>		<p>◆ High Mast Ring</p> <p>Drawing # E-901 Sheets 1 through 10</p>	

High Mast Ring- Previously Approved Shop Drawings			
Manufacturer		Type	
Brookfield Fabricating Corp. Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214		♦ High Mast Ring Drawings Dated 4-8-96 Sheets 1 through 4	
PKM Steel Service 228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638 http://www.pkmsteel.com/		♦ High Mast Ring Sheet E1 Dated 8-2-05 Sheet 1 Dated 10-12-05 Sheet 2 Dated 10-12-05 Sheet 3 Dated 10-12-05	

Item 618 – Conduit

General

The following products have been tested and are pre-qualified for use on projects where Conduit, Junction Boxes, Expansion Joints and Conduit Fittings are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Rigid Metallic Conduit – (RMC)			
Manufacturer	Brand	Type	Model
Allied 16100 S. Lathrop Avenue Harvey, IL 60426-6021 (800) 882-5543 http://www.alliedtube.com	Allied	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
Wheatland 900 Haddon Avenue P.O. Box 600 Collingswood, NJ 08108-0600 (800) 257-8182 http://www.wheatland.com/	Wheatland	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)			
Manufacturer	Brand	Type	Model
Cantex P.O. Box 340 Mineral Wells, TX 76068 (940) 325-3344 (800) 433-5623 http://www.cantexinc.com/	Cantex	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Georgia Pipe Company 1206 Sunset Drive P.O. Box 2235 Thomasville, GA 31799 (229) 226-7337 http://www.alliedtube.com/	Georgia Pipe	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	J-M PVC Conduits	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Lansom & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlon	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)

Manufacturer	Brand	Type	Model
National Pipe & Plastics, Inc. 3421 Old Vestal Road Vestal, NY 13850 (800) 836-4350 http://www.nationalpipe.com/	NPPI PVC	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791 http://www.heritageplastics.com/	Heritage	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
PW Eagle, Inc. P.O. Box 10049 Eugene, OR 97477 (800) 347-0200 http://www.pweaglepipe.com	PW Eagle	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Perma-Guard/ UL	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SW 400 050 N000-UL ◆ 3/4" SW 400 075 N000-UL ◆ 1" SW 400 100 N000-UL ◆ 2" SW 400 200 N000-UL ◆ 3" SW 400 300 N000-UL
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line – Smoothwall	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SCH-40 (0538-11007-0000000) ◆ 3/4" SCH-40 (0738-11007-0000000) ◆ 1" SCH-40 (1038-11007-0000000) ◆ 1.25" SCH-40 (1238-11007-0000000) ◆ 1.50" SCH-40 (1538-11007-0000000) ◆ 2" SCH-40 (2038-11007-0000000) ◆ 3" SCH-40 (3038-11007-0000000) ◆ 4" SCH-40 (3538-11007-0000000) ◆ 5" SCH-40 (3638-11007-0000000) ◆ 6" SCH-40 (3738-11007-0000000)
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	HDPE ® - HDPE Duct/Inner Duct	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1 ¼" 1.25 7.5M S40 BLK ◆ 1 ½" 1.5 6M S40 BLK ◆ 2" 2 3M S40 BLK ◆ 3" 3 1M S40 BLK ◆ 4" 4 725M S40 BLK
Lamson & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlton/UL Listed HDPE	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" U2C4-UV ◆ 3/4" U3C4-UV ◆ 1" U5C4-UV ◆ 1 ¼" U6C4-UV ◆ 1 ½" U9C4-UV ◆ 2" U13C4-UV ◆ 3" U15C4-UV ◆ 4" U16C4-UV

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Rinker Materials P.O. Box 390 Gainsville, TX 76240 (800) 433-5632 http://www.rinker.com/	PolyPipe® HDPE Duct Pipe	♦ HDPE Conduit – Schedule 40 Color - Black	♦ PolyPipe® EHMW – PE3408 ½” to 4”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond HDPE	♦ HDPE Conduit – Schedule 40 Color - Black	♦ 1/2" BDI065BK-UL ♦ 3/4" BDI095BK-UL ♦ 1" BDI115BK-UL ♦ 1 ¼" BDI135BK-UL ♦ 1 ½" BDI165BK-UL ♦ 2" BDI215BK-UL ♦ 3" BDI315BK-UL ♦ 4" BDI414BK-UL

Precast Polymer Concrete Junction Box for Concrete Traffic Barrier			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.strongwell.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ Median Barrier Box ◆ Median Barrier Box – for Concrete Barrier (F-Shape) ◆ Junction Box w/Cover OD – 9 X 11 X 7 ¼” ID – 7 ⅜ X 9 ⅜ X 6 ½”	<ul style="list-style-type: none"> ◆ PC1012B500/PC1012CA00 ◆ PC0516B500/PC0516CA00 ◆ PC0608Z503831 Cover Imprinted “Danger High Voltage – Illumination”

Item 620 – Conductors

General

The following products are pre-qualified for use on projects where Conductors are furnished or installed as required by the item descriptive code. Where splicing materials, insulating materials, GelCaps, fuse holders or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil ◆ 6 AWG & 8AWG Available in Black Only
Encore Wire 1410 Millwood Rd. McKinney, TX 75069 (800) 962-9473 http://www.encorewire.com/	Encore	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 1000 kcmil
Service Wire Company Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil ♦ 6 AWG & 8AWG Available in Black Only
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394 2877 http://www.bussmann.com/	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 sheets are in plan set.</p>
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 0LEXYYSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>
Ferraz Shawmut Inc. 374 Merrimac Street Newburyport, MA 01950 (978) 462-6662 http://www.ferrazshawmut.com	Ferraz Shawmut	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ FEX-91-91-BA – used when no neutral is required ◆ FEXN-91-91-BA – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>

Item 621 – Tray Cable

General

The following products are pre-qualified for use on projects where Tray Cable is furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 500 kcmil
Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 750 kcmil
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 500 kcmil

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ Tray Cable – Power Cable – XLP XHHW Insulation, PVC Jacket, Copper Conductors	♦ Available in 12 AWG -3 and 4 conductor

Item 622 – Duct Cable

General

The following products are pre-qualified for use on projects where Duct Cable is furnished or installed as required by the item descriptive code. Where connectors are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Arnco	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (800) 233-3190 http://www.drakausa.com	Draka	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Item 624 – Ground Boxes

General

The following products are pre-qualified for use on projects where Ground Boxes are furnished or installed as required by descriptive code. Products are subject to testing. No substitutions will be allowed for Types A through E as listed below. For types not listed below, applicable TxDOT standards and specifications will apply.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.strongwell.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PG1324B512 / PG1324H506 ◆ 2PG1324B512 / PG1324H506 ◆ PG1730B512 / PG1730H507 ◆ PG1730B517 / PG1730H507 ◆ PG1324B514 / PG1324H506
		Type D model number changed from 522 to 517. Same box. 522 acceptable to allow for boxes already in stock, until Oct.2008. Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PG1324H5064A (Danger High Voltage FTM) ◆ PG1324H5064B (Danger High Voltage Irrigation) ◆ PG1324H5064D(Danger High Voltage Illumination) ◆ PG1324H5064E (Danger High Voltage Traffic Signal) ◆ PG1324H5064G (Danger High Voltage Sign Lighting) ◆ PG1324H506H7 (Danger High Voltage)
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PG1730H5074A (Danger High Voltage FTM) ◆ PG1730H5064B (Danger High Voltage Irrigation) ◆ PG1730H5074D (Danger High Voltage Illumination) ◆ PG1730H5074E (Danger High Voltage Traffic Signal) ◆ PG1730H5074G (Danger High Voltage Sign Lighting) ◆ PG1730H507H7 (Danger High Voltage)

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Armorcast Products Company 13230 Saticoy St. North Hollywood, CA. 91605 (818) 982-3600 http://www.armorcastprod.com/	Armor cast	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For All Boxes	<ul style="list-style-type: none"> ◆ A6001946TAPCX12 ◆ A6001946TAPCX24 ◆ A6001640TAPCX12 ◆ A6001640TAPCX22 ◆ A6001946TAPCX18 <ul style="list-style-type: none"> ◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
NewBasis 2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747 http://www.newbasis.com/	NewBasis	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ PCB132412G482 ◆ (2) PCB132412G482
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PCC1324DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1324DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PCC1730DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1730DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1730DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1730DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Synertech Moulded Products 2 Inverness St. Candiac, Quebec Canada J5R 4WS Toll Free (888) 868-5214 http://www.synertechproducts.com	Synertech	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ S132412HH90 ◆ S132424HH90 ◆ S173012HH90 ◆ S173024HH90 ◆ S132418HH90
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ S1324HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNAL ◆ S1324HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1324HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1324HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ S1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ S1730HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Carson Industries, LLC. 1160 Nicole Court Glendora, CA. 91740 (800) 735-5566 (909) 592-6272 http://www.carsonind.com/	Carson	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ 13242030 ◆ 13242032
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ 17302061 ◆ 17302063 ◆ 13242031
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 13244156- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 13244158- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 13244171- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 13244170- DANGER HIGH VOLTAGE/LANDSCAPE
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 17304185- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 17304183- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 17304249- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 17305021- DANGER HIGH VOLTAGE/LANDSCAPE

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
CDR Systems Corporation 146 South Atlantic Ave. Ormond Beach, FL. 32176 (386) 615-9510 http://www.cdrsistemas.com/	cdr	◆ A	◆ SB14-1324-12-0287
		◆ B	◆ SB14-1324-12-0287 -2 boxes stacked
		◆ C	◆ SB14-1730-12-0494
		◆ D	◆ SC14-1730-22-0499
		◆ E	◆ SB14-1324-18-0288
		Cover For Type A, B & E	◆ SC12-1324-02
		Cover For Type C & D	◆ SC12-1730-02
Cover For All Boxes	◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.		

Item 628 – Electrical Service

General

The following products have been tested and are pre-qualified for use on projects where Electrical Services are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Electrical Service			
Manufacturer	Brand	Type	Model
Electrol Systems 10623 Sentinel Drive San Antonio, TX 78217 (210) 599-6485 (888) 853-8944 http://www.electrolsystems.com/	Electrol	♦ A ♦ C ♦ C- Auxiliary Only ♦ D ♦ T- Auxiliary Only ♦ T-All in One ♦ A-Pedestal ♦ D-Pedestal	♦ ELECTROL TYPE A-TXDOT ♦ ELECTROL TYPE C-TXDOT ♦ ELECTROL TYPE C- Auxiliary Only – TXDOT ♦ ELECTROL TYPE D-TXDOT ♦ ELECTROL TYPE T- Auxiliary Only - TXDOT ♦ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT ♦ ELECTROL TYPE A-PEDESTAL-TXDOT ♦ ELECTROL TYPE D-PEDESTAL-TXDOT
S&J Electric PO Box 121516 Ft Worth, TX 76121 (817) 560-0000 http://www.sj-electric.com/index.html	Stanfield Enterprises Inc.	♦ A ♦ A-Pedestal ♦ C ♦ C- Auxiliary Only ♦ D ♦ D-Pedestal ♦ T- Auxiliary Only ♦ T-All in One	♦ STANFIELD ENTERPRISE INC. TYPE A-TXDOT ♦ STANFIELD ENTERPRISE INC. TYPE A-PEDESTAL-TXDOT ♦ STANFIELD ENTERPRISE INC. TYPE C-TXDOT ♦ STANFIELD ENTERPRISE INC. TYPE C-Auxiliary Only –TXDOT ♦ STANFIELD ENTERPRISE INC. TYPE D-TXDOT ♦ STANFIELD ENTERPRISE INC. TYPE D-PEDESTAL-TXDOT ♦ STANFIELD ENTERPRISE INC. TYPE T Auxiliary Only –TXDOT ♦ STANFIELD ENTERPRISE INC. TYPE T-ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
WE Manufacturing 5535 Harvey Wilson Drive Houston , TX 77020 (713) 676-2298 (800) 880-9453 http://www.wemanufacturing.com/	WE	♦ A ♦ C ♦ C- Auxiliary Only ♦ D ♦ T- Auxiliary Only ♦ T-All in One ♦ A - Pedestal	♦ WE TYPE A-TXDOT ♦ WE TYPE C-TXDOT ♦ WE TYPE C- Auxiliary Only –TXDOT ♦ WE TYPE D-TXDOT ♦ WE TYPE T- Auxiliary Only –TXDOT ♦ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT ♦ WE TYPE A- PEDESTAL - TXDOT
Mica Corporation P.O. Box 161609 Fort Worth , TX 77020 (817) 847-6121 (817) 577-2088	Mica	♦ A ♦ C ♦ D ♦ T- Auxiliary Only ♦ T-All in One	♦ MICA TYPE A-TXDOT ♦ MICA TYPE C-TXDOT ♦ MICA TYPE D-TXDOT ♦ MICA TYPE T- Auxiliary Only –TXDOT ♦ MICA TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Specialty Control Systems 629 SH 3 League City , TX 77573 (281) 332-0999 http://www.specialtycontrol.com/	SCS	<ul style="list-style-type: none"> ◆ A ◆ D ◆ T-All in One ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ SCS TYPE A-TXDOT ◆ SCS TYPE D-TXDOT ◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ SCS TYPE D-PEDESTAL-TXDOT
Tesco Controls, Inc. 3434 52 nd Ave. Sacramento , CA 95823 (916) 395-8800 http://www.tescocontrols.com/home.htm	Tesco	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ C-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240) ◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480) ◆ TESCO TYPE C-PEDESTAL-TXDOT ◆ TESCO TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Love Electric, Inc. 3128 Spur 124. Tyler , TX 75707 (903) 592-7561	Love	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ A 	<ul style="list-style-type: none"> ◆ LEI TYPE A-PEDESTAL-TXDOT (120/240) ◆ LEI TYPE A-PEDESTAL-TXDOT (240/480) ◆ LEI TYPE A-TXDOT
Myers Power Products, Inc. 725 E. Harrison St. Corona , CA 92879 (951) 520-1900 (866) 696-9377 http://www.myerspwrproducts.com	Myers	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ MEUG16 TYPE A-PEDESTAL-TXDOT ◆ MEUG16 TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Tri-State Electric, Ltd. 4604 Titanic Ave. El Paso , TX 79904 (915) 755-8803	Tri-State	◆ A	◆ TS1000 TYPE A-TXDOT
Associated Starters & Controls 310 Breesport, Ste. D San Antonio , TX 78216 (210) 798-1334 (888) 798-1334	ASC	◆ A ◆ D ◆ A - Pedestal ◆ D - Pedestal	◆ ASC TYPE A-TXDOT ◆ ASC TYPE D-TXDOT ◆ ASC TYPE A-PEDESTAL - TXDOT ◆ ASC TYPE D-PEDESTAL - TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Milbank Manufacturing Co. 4801 Deramus Kansas City , MO 64120 (816) 483-5314 (Main Switch Board) (660) 463-0800 (Commercial Pedestal) http://milbankmfg.com	Milbank	♦ A - Pedestal ♦ A - Pedestal ♦ D - Pedestal	♦ MB TYPE A-PEDESTAL –TXDOT (120/240) ♦ MB TYPE A-PEDESTAL –TXDOT (240/480) ♦ MB TYPE D-PEDESTAL –TXDOT (120/240)

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
<p>Tork</p> <p>1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042</p> <p>http://www.tork.com/</p>	Tork	◆ 120-277 Volt Photocell	<p>◆ S895 or ◆ NSI-TORK S895 *</p> <p>* Tork has recently been bought out by NSI</p>
<p>American Electric Lighting / DTL</p> <p>P.O. Box 3004 Newark, OH 43800 (800) 754-0463</p> <p>http://www.darktolight.com</p>	DTL	◆ 120-277 Volt Photocell	◆ DUX124 -12A30
<p>Tyco Electronics</p> <p>8000 Purfoy Rd. Fuquay-Varina, NC 27526 (919)557-8459</p> <p>http://www.tycoelectronics.com/</p>	Tyco	◆ 120-277 Volt Photocell	◆ ALR-SST-PV-IES-UL (3E7425-000)

**Roadway Illumination and Electrical Supplies
Table of Contents**

Materials Pre-qualified for Illumination and Electrical items 610-628
No additional submittals are required for products that are pre-qualified

	<u>Page</u>
Item 610 – Roadway Illumination Assemblies.....	2
Item 613 – High Mast Illumination Pole.....	12
Item 614 – High Mast Illumination Assemblies.....	13
Item 618 – Conduit..... (Includes fittings, junction boxes and expansion joints - Future)	18
Item 620 – Electrical Conductors..... (Includes fuse holders) (and applicable parts for making splices - Future)	24
Item 621 – Tray Cable.....	27
Item 622 – Duct Cable.....	29
Item 624 – Ground Boxes.....	31
Item 628 – Electrical Services.....	37

Notice:

All submittal and corresponding documentation becomes public information.
All manufacturers' products that are listed within this document are pre-qualified.
TxDOT reserves the right to remove any manufacturer or product from this list, at any time. Manufacturers interested in being added to the pre-qualified list should contact Traffic Operations Division.

Item 610 – Roadway Illumination Assemblies

General

The following products are pre-qualified for use on the projects where roadway illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	♦ Induction Fluorescent Underpass Fixture	♦ UDP-165-QL-GR
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	♦ Induction Fluorescent Underpass Fixture – Steel Housing ♦ Induction Fluorescent Underpass Fixture – Aluminum Housing	♦ TS2020-3/3-1-150IND- 277V-R-SSPH-TEXAS ♦ TS2020-*/*-150IND- *Volt-8-SSPH-TDOT- ALUMINUM
ESCO Lighting 3254 N. Kilborn Ave. Chicago, IL 60641 (773) 427-7000 http://www.escolighting.com	ESCO	♦ Induction Fluorescent Underpass Fixture	♦ SP2343

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
H.E. Williams 831 W. Fairview Ave. P.O. Box 837 Carthage, MO 64836 (417) 358-4065 http://www.hew.com	Infinity	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture ◆ BB Box Beam ◆ BD Bridge Deck ◆ UB U-Beam 	<ul style="list-style-type: none"> ◆ ICERL1-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL3-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL5-150S-41K-BAT/CG1-14DEG-UNV <p>New Part Numbers – Same Fixture – October 2006 Old Part Numbers (ICEDC) Phased Out</p>
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Fail-Safe	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ TF28-150ICE-UNV-A1432

Roadway Illumination Assemblies – Luminaire			
Manufacturer	Brand	Type	Model
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Streetworks	<ul style="list-style-type: none"> ◆ 150W HPS- 240/480 Volt ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ OVW15SMJ3DD0004 ◆ OVW25SMG2DD0001 ◆ OVW25SMJ2DD0002 ◆ OVW40SMG2DD0005 ◆ OVW40SMJ2DD0003
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingsystems.com	M4RC	<ul style="list-style-type: none"> ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ M4RC25S7M4GSC2311 or GE Manufacture #168025 ◆ M4RC25S9M4GSC2311 or GE Manufacture #168023 ◆ M4RC40S7M4GSC3311 or GE Manufacture #157785 ◆ M4RC40S9M4GSC3311 or GE Manufacture #158165

Item 610 – Roadway Illumination Assemblies

General

Roadway Illumination Poles do not need to be pre-qualified when TxDOT RIP-07(Roadway Illumination Poles -2007) standard sheets are included in the plan set.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of Item 610 and applicable Special Provisions to Item 610.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP-07 (Roadway Illumination Poles -2007). Poles fabricated according to RIP-07 require no shop drawings.

Alternate designs to RIP-07 or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on submitting shop drawings electronically go to:

<http://www.dot.state.tx.us/publications/bridge.htm>

File is titled: Guide to Electronic Shop Drawing Submittal.

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
<p>Valmont Industries, Inc.</p> <p>7002 N. 288th St. P.O. Box 358 Valley, NE 68064-0358 (402) 359-2201</p> <p>http://www.valmont.com/</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Barrier Mount ◆ 30-50 Ft.-Steel Pole Bridge Mount 	<ul style="list-style-type: none"> ◆ All Poles Based on Drawing # DB00388 Sheet 1 of 2 Revision Date 6-24-02 ◆ All Anchor Bolt Details Based on Drawing # DB00388 Sheet 2 of 2 Revision Dated 6-24-02
<p>Union Metal Corporation</p> <p>1432 Maple Ave., NE P.O. Box 9920 Canton, OH 44705 (330) 456-7653</p> <p>http://www.unionmetal.com/</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # T1408-B2 – Sheet 1 of 2 Revision Date 11-8-02 & #T1408-B2 – Sheet 2 of 2 Dated 1-11-00 Anchor Bolt Details Based on Drawing # AA8 & AA3A – No Date ◆ Based on Drawing # T1406-B4 – Sheet 1 of 2 Revision Date 11-8-02 & #T1404-B4 – Sheet 2 of 2 Dated 1-26-00 Anchor Bolt Details Based on Drawing # A2A & A2D – Revision Date 11-8-02 ◆ Based on Drawing # T1406-B3 – Sheet 1 of 2 Revision Date 11-8-02 & #T1406-B3 – Sheet 2 of 2 Dated 1-14-00 Anchor Bolt Details Based on Drawing # AA9 & AA2A – Revision Date 11-8-02

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Hapco 26252 Hillman Highway Abingdon, VA 24210 (800) 368-7171 http://www.hapco.com/		<ul style="list-style-type: none"> ◆ 40 Ft.-Aluminum with 8Ft. Arm Only 	<ul style="list-style-type: none"> ◆ Based on Drawing # B82627 and B83058
Whitco Poles 7700 Wyatt Drive Ft. Worth, TX 76108 (800) 433-7753 http://www.whitcoples.com		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # TX-DOT-003 ◆ Based on Drawing # TX-DOT-001 ◆ Based on Drawing # TX-DOT-002

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Millerbernd Manufacturing, Co. 622 6th. Street South P.O. Box 98 Winsted, MN 55395 (320) 485-2111 http://www.millerberndmfg.com		◆ 30 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B588 Sheet 1 of 1 Revision Date 6-15-05
		◆ 40 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B586 Sheet 1 of 1 Revision Date 6-3-05
		◆ 50 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B587 Sheet 1 of 1 Revision Date 6-3-05
		◆ 30 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B694 Sheet 1 of 1 Revision Date 9-26-05
		◆ 40 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B691 Sheet 1 of 1 Revision Date 9-26-05
		◆ 50 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B693 Sheet 1 of 1 Revision Date 9-26-05
		◆ 30 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B589 Sheet 1 of 1 Revision Date 6-28-05
		◆ 40 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B590 Sheet 1 of 1 Revision Date 6-28-05
		◆ 50 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B591 Sheet 1 of 1 Revision Date 6-28-05
		◆ 30 Ft.-Requisition Pole	◆ Based on Drawing # 730B707 Sheet 1 of 1 Date 7-13-05
		◆ 40 Ft.-Requisition Pole	◆ Based on Drawing # 730B643 Sheet 1 of 1 Revision Date 6-16-05
		◆ 50 Ft.-Requisition Pole	◆ Based on Drawing # 730B644 Sheet 1 of 1 Revision Date 6-16-05

High Pressure Sodium Lamps			
Manufacturer	Brand	Type	Model
Osram Sylvania 100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828 http://www.sylvania.com/	Sylvania - Lumalux Plus®/ECO	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 67312 - LU400/PLUS/ECO ◆ 67572 - LU250/PLUS/ECO ◆ 67494 - LU150/55/PLUS/ECO

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI
American Electric Lighting / DTL P.O. Box 3004 Newark, OH 43800 (800) 754-0463 http://www.darktolight.com	DTL	◆ 120-277 Volt Photocell	◆ DUX124 -12A30
Tyco Electronics 8000 Purfoy Rd. Fuquay-Varina, NC 27526 (919) 557-8459 http://www.tycoelectronics.com/	Tyco	◆ 120-277 Volt Photocell	◆ ALR-SST-PV-IES-UL (3E7425-000)

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394-2877 http://www.bussmann.com/	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ 0LEXYYSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>
Ferraz Shawmut Inc. 374 Merrimac Street Newburyport, MA 01950 (978) 462-6662 http://www.ferrazshawmut.com	Ferraz Shawmut	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ FEX-91-91-BA – used when no neutral is required ◆ FEXN-91-91-BA – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>

Item 613 – High Mast Illumination Poles

General

There are no pre-qualified High Mast Illumination Poles.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of item 613. Provide components that fit together properly.

- (a) **Alternate Design.** Approval must be obtained for alternate designs. Obtain approval to eliminate the ground sleeve (with associated changes to the base plate bolt circle) or to significantly modify the access hole ring by testing a full-scale specimen of the base section. Support the specimen at the base plate on double-nutted anchor bolts. Load the specimen to produce maximum compression on the access hole ring. Provide test results that clearly demonstrate the specimen can develop the factored moment capacity (load factor of 1.38 multiplied by wind factor of 1.4 multiplied by F_b) which is approximately the full plastic bending capacity. Once a fabricator obtains approval for modified details, this approval extends to all future TxDOT projects.
- (b) **Shop Drawings.** Do not provide shop drawings for high mast illumination poles fabricated in accordance with this Item and the plans. Provide shop drawings for alternate designs. The submission of shop drawings is only required the first time each alternate design is used. Submit seven sets of shop drawings to the Bridge Division.

Item 614 – High Mast Illumination Assemblies

General

The following products are pre-qualified for use on the projects where high mast illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Luminaire – High Mast			
Manufacturer	Brand	Type	Model
Holophane 214 Oakwood Ave. Newark, OH 43055 (740) 345-9631 (512) 791-7982 http://www.holophane.com	High Mast Cutoff-HMSC High Mast Dark Skies-HMSD	<ul style="list-style-type: none"> ◆ High Mast – Type B ◆ High Mast – Type S Type A and C Removed From List. 4-26-07	<ul style="list-style-type: none"> ◆ HMSC40RHP48BTX03 ◆ HMSD40RHP48STX03 Type A and C Removed From List. 4-26-07
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingssystem.com	G.E.	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ 159189 ◆ 159190 ◆ 159191 ◆ 159193
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Streetworks	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ GMA40SM83DD0018 ◆ GMA40SM83DD0019 ◆ GMA40SM83DD0020 ◆ GMA40SM8ARD0017

High Mast Kit

Manufacturer	Brand	Type	Model
Mica Corporation 5750 N. Riverside Dr. Fort Worth, TX 76137 (817) 577-2088 http://www.micacorporation.com	Mica Corporation	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-PH ♦ HMK-150-PH ♦ HMK -175-PH
Carolina High Mast, Inc. 700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046	Carolina High Mast, Inc.	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-CHMI ♦ HMK-150-CHMI ♦ HMK -175-CHMI
Rexel 2400 Brockton San Antonio, TX 78217 (210) 352-1047 http://www.rexelusa.com	Rexel	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-RX ♦ HMK-150-RX ♦ HMK -175-RX

High Mast Kit

Manufacturer	Brand	Type	Model
Wildcat Electric Supply, Ltd. 2061 Clovis Barker Road #5. San Marcos, TX 77666 (512) 396-8900 (866) 301-5200 http://www.wildcatelectric.com	Wildcat	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-WC ◆ HMK-150-WC ◆ HMK -175-WC

High Mast Ring- Previously Approved Shop Drawings

Manufacturer		Type	
<p>J.W. Hall Enterprises, Inc.</p> <p>17731 Elizabeth Rd. Algoa, TX 77511 (281) 337-6311</p> <p>http://www.jwhall.com</p>		<p>◆ High Mast Ring</p> <p>Drawing # HM 2002-01 Sheets 1 through 6 Drawing # HE 2002 Sheets 7 through 9</p>	
<p>Carolina High Mast, Inc.</p> <p>700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046</p>		<p>◆ High Mast Ring</p> <p>Drawing # TXDOT-01 Sheets 1 through 5 Drawing # TXDOT-02 Sheets 1 through 4 Drawing # TXDOT-03 Sheets 1 through 4 Drawing # TXDOT-04 Sheets 1 through 3</p>	
<p>Traffic Control Devices</p> <p>4417 Main Street Pearland, TX 77581 (281) 992-3030</p> <p>http://www.tcd.cc</p>		<p>◆ High Mast Ring</p> <p>Drawing # E-901 Sheets 1 through 10</p>	

High Mast Ring- Previously Approved Shop Drawings			
Manufacturer		Type	
Brookfield Fabricating Corp. Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214		♦ High Mast Ring Drawings Dated 4-8-96 Sheets 1 through 4	
PKM Steel Service 228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638 http://www.pkmsteel.com/		♦ High Mast Ring Sheet E1 Dated 8-2-05 Sheet 1 Dated 10-12-05 Sheet 2 Dated 10-12-05 Sheet 3 Dated 10-12-05	

Item 618 – Conduit

General

The following products have been tested and are pre-qualified for use on projects where Conduit, Junction Boxes, Expansion Joints and Conduit Fittings are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Rigid Metallic Conduit – (RMC)			
Manufacturer	Brand	Type	Model
Allied 16100 S. Lathrop Avenue Harvey, IL 60426-6021 (800) 882-5543 http://www.alliedtube.com	Allied	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
Wheatland 900 Haddon Avenue P.O. Box 600 Collingswood, NJ 08108-0600 (800) 257-8182 http://www.wheatland.com/	Wheatland	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)			
Manufacturer	Brand	Type	Model
Cantex P.O. Box 340 Mineral Wells, TX 76068 (940) 325-3344 (800) 433-5623 http://www.cantexinc.com/	Cantex	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Georgia Pipe Company 1206 Sunset Drive P.O. Box 2235 Thomasville, GA 31799 (229) 226-7337 http://www.alliedtube.com/	Georgia Pipe	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	J-M PVC Conduits	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Lansom & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlon	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)

Manufacturer	Brand	Type	Model
National Pipe & Plastics, Inc. 3421 Old Vestal Road Vestal, NY 13850 (800) 836-4350 http://www.nationalpipe.com/	NPPI PVC	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791 http://www.heritageplastics.com/	Heritage	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
PW Eagle, Inc. P.O. Box 10049 Eugene, OR 97477 (800) 347-0200 http://www.pweaglepipe.com	PW Eagle	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Perma-Guard/ UL	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SW 400 050 N000-UL ◆ 3/4" SW 400 075 N000-UL ◆ 1" SW 400 100 N000-UL ◆ 2" SW 400 200 N000-UL ◆ 3" SW 400 300 N000-UL
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line – Smoothwall	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SCH-40 (0538-11007-0000000) ◆ 3/4" SCH-40 (0738-11007-0000000) ◆ 1" SCH-40 (1038-11007-0000000) ◆ 1.25" SCH-40 (1238-11007-0000000) ◆ 1.50" SCH-40 (1538-11007-0000000) ◆ 2" SCH-40 (2038-11007-0000000) ◆ 3" SCH-40 (3038-11007-0000000) ◆ 4" SCH-40 (3538-11007-0000000) ◆ 5" SCH-40 (3638-11007-0000000) ◆ 6" SCH-40 (3738-11007-0000000)
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	HDPE ® - HDPE Duct/Inner Duct	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1 ¼" 1.25 7.5M S40 BLK ◆ 1 ½" 1.5 6M S40 BLK ◆ 2" 2 3M S40 BLK ◆ 3" 3 1M S40 BLK ◆ 4" 4 725M S40 BLK
Lamson & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlton/UL Listed HDPE	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" U2C4-UV ◆ 3/4" U3C4-UV ◆ 1" U5C4-UV ◆ 1 ¼" U6C4-UV ◆ 1 ½" U9C4-UV ◆ 2" U13C4-UV ◆ 3" U15C4-UV ◆ 4" U16C4-UV

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Rinker Materials P.O. Box 390 Gainsville, TX 76240 (800) 433-5632 http://www.rinker.com/	PolyPipe® HDPE Duct Pipe	♦ HDPE Conduit – Schedule 40 Color - Black	♦ PolyPipe® EHMW – PE3408 ½” to 4”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond HDPE	♦ HDPE Conduit – Schedule 40 Color - Black	♦ 1/2" BDI065BK-UL ♦ 3/4" BDI095BK-UL ♦ 1" BDI115BK-UL ♦ 1 ¼" BDI135BK-UL ♦ 1 ½" BDI165BK-UL ♦ 2" BDI215BK-UL ♦ 3" BDI315BK-UL ♦ 4" BDI414BK-UL

Precast Polymer Concrete Junction Box for Concrete Traffic Barrier			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.quazite.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ Median Barrier Box ◆ Median Barrier Box – for Concrete Barrier (F-Shape) ◆ Junction Box w/Cover OD – 9 X 11 X 7 ¼” ID – 7 ⅜ X 9 ⅜ X 6 ½”	<ul style="list-style-type: none"> ◆ PC1012B500/PC1012CA00 ◆ PC0516B500/PC0516CA00 ◆ PC0608Z503831 Cover Imprinted “Danger High Voltage – Illumination”

Item 620 – Conductors

General

The following products are pre-qualified for use on projects where Conductors are furnished or installed as required by the item descriptive code. Where splicing materials, insulating materials, GelCaps, fuse holders or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil ◆ 6 AWG & 8AWG Available in Black Only
Encore Wire 1410 Millwood Rd. McKinney, TX 75069 (800) 962-9473 http://www.encorewire.com/	Encore	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 1000 kcmil
Service Wire Company Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil ♦ 6 AWG & 8AWG Available in Black Only
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394 2877 http://www.bussmann.com/	Bussmann	♦ Double-pole ♦ Double-pole	♦ HEX-KW-DRYC – used when no neutral is required ♦ HEN-KW-DRYC – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 sheets are in plan set.
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	♦ Double-pole ♦ Double-pole	♦ 0LEXYYSX – used when no neutral is required ♦ LEXT0YYYSX – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.
Ferraz Shawmut Inc. 374 Merrimac Street Newburyport, MA 01950 (978) 462-6662 http://www.ferrazshawmut.com	Ferraz Shawmut	♦ Double-pole ♦ Double-pole	♦ FEX-91-91-BA – used when no neutral is required ♦ FEXN-91-91-BA – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.

Item 621 – Tray Cable

General

The following products are pre-qualified for use on projects where Tray Cable is furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 500 kcmil
Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 750 kcmil
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 500 kcmil

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ Tray Cable – Power Cable – XLP XHHW Insulation, PVC Jacket, Copper Conductors	♦ Available in 12 AWG -3 and 4 conductor

Item 622 – Duct Cable

General

The following products are pre-qualified for use on projects where Duct Cable is furnished or installed as required by the item descriptive code. Where connectors are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Arnco	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (800) 233-3190 http://www.drakausa.com	Draka	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Item 624 – Ground Boxes

General

The following products are pre-qualified for use on projects where Ground Boxes are furnished or installed as required by descriptive code. Products are subject to testing. No substitutions will be allowed for Types A through E as listed below. For types not listed below, applicable TxDOT standards and specifications will apply.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.quazite.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PG1324B512 / PG1324H506 ◆ 2PG1324B512 / PG1324H506 ◆ PG1730B512 / PG1730H507 ◆ PG1730B517 / PG1730H507 ◆ PG1324B514 / PG1324H506
		Type D model number changed from 522 to 517. Same box. 522 acceptable to allow for boxes already in stock, until Oct.2008. Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PG1324H5064A (Danger High Voltage FTM) ◆ PG1324H5064B (Danger High Voltage Irrigation) ◆ PG1324H5064D(Danger High Voltage Illumination) ◆ PG1324H5064E (Danger High Voltage Traffic Signal) ◆ PG1324H5064G (Danger High Voltage Sign Lighting) ◆ PG1324H506H7 (Danger High Voltage)
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PG1730H5074A (Danger High Voltage FTM) ◆ PG1730H5064B (Danger High Voltage Irrigation) ◆ PG1730H5074D (Danger High Voltage Illumination) ◆ PG1730H5074E (Danger High Voltage Traffic Signal) ◆ PG1730H5074G (Danger High Voltage Sign Lighting) ◆ PG1730H507H7 (Danger High Voltage)

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Armorcast Products Company 13230 Saticoy St. North Hollywood, CA. 91605 (818) 982-3600 http://www.armorcastprod.com/	Armor cast	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For All Boxes	<ul style="list-style-type: none"> ◆ A6001946TAPCX12 ◆ A6001946TAPCX24 ◆ A6001640TAPCX12 ◆ A6001640TAPCX22 ◆ A6001946TAPCX18 <ul style="list-style-type: none"> ◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
NewBasis 2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747 http://www.newbasis.com/	NewBasis	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ PCB132412G482 ◆ (2) PCB132412G482
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PCC1324DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1324DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PCC1730DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1730DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1730DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1730DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Synertech Moulded Products 2 Inverness St. Candiac, Quebec Canada J5R 4WS Toll Free (888) 868-5214 http://www.synertechproducts.com	Synertech	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ S132412HH90 ◆ S132424HH90 ◆ S173012HH90 ◆ S173024HH90 ◆ S132418HH90
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ S1324HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNAL ◆ S1324HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1324HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1324HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ S1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ S1730HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Carson Industries, LLC. 1160 Nicole Court Glendora, CA. 91740 (800) 735-5566 (909) 592-6272 http://www.carsonind.com/	Carson	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ 13242030 ◆ 13242032
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ 17302061 ◆ 17302063 ◆ 13242031
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 13244156- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 13244158- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 13244171- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 13244170- DANGER HIGH VOLTAGE/LANDSCAPE
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 17304185- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 17304183- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 17304249- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 17305021- DANGER HIGH VOLTAGE/LANDSCAPE

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
CDR Systems Corporation 146 South Atlantic Ave. Ormond Beach, FL. 32176 (386) 615-9510 http://www.cdrsistemas.com/	cdr	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For Type A, B & E Cover For Type C & D Cover For All Boxes 	<ul style="list-style-type: none"> ◆ SB14-1324-12-0287 ◆ SB14-1324-12-0287 -2 boxes stacked ◆ SB14-1730-12-0494 ◆ SC14-1730-22-0499 ◆ SB14-1324-18-0288 ◆ SC12-1324-02 ◆ SC12-1730-02 ◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Item 628 – Electrical Service

General

The following products have been tested and are pre-qualified for use on projects where Electrical Services are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Electrical Service			
Manufacturer	Brand	Type	Model
Electrol Systems 10623 Sentinel Drive San Antonio, TX 78217 (210) 599-6485 (888) 853-8944 http://www.electrolsystems.com/	Electrol	<ul style="list-style-type: none"> ◆ A ◆ C ◆ C- Auxiliary Only ◆ D ◆ T- Auxiliary Only ◆ T-All in One ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ ELECTROL TYPE A-TXDOT ◆ ELECTROL TYPE C-TXDOT ◆ ELECTROL TYPE C- Auxiliary Only – TXDOT ◆ ELECTROL TYPE D-TXDOT ◆ ELECTROL TYPE T- Auxiliary Only - TXDOT ◆ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT ◆ ELECTROL TYPE A-PEDESTAL-TXDOT ◆ ELECTROL TYPE D-PEDESTAL-TXDOT
S&J Electric PO Box 121516 Ft Worth, TX 76121 (817) 560-0000 http://www.sj-electric.com/index.html	Stanfield Enterprises Inc.	<ul style="list-style-type: none"> ◆ A ◆ A-Pedestal ◆ C ◆ C- Auxiliary Only ◆ D ◆ D-Pedestal ◆ T- Auxiliary Only ◆ T-All in One 	<ul style="list-style-type: none"> ◆ STANFIELD ENTERPRISE INC. TYPE A-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE A-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C- Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
WE Manufacturing 5535 Harvey Wilson Drive Houston , TX 77020 (713) 676-2298 (800) 880-9453 http://www.wemanufacturing.com/	WE	♦ A ♦ C ♦ C- Auxiliary Only ♦ D ♦ T- Auxiliary Only ♦ T-All in One ♦ A - Pedestal	♦ WE TYPE A-TXDOT ♦ WE TYPE C-TXDOT ♦ WE TYPE C- Auxiliary Only –TXDOT ♦ WE TYPE D-TXDOT ♦ WE TYPE T- Auxiliary Only –TXDOT ♦ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT ♦ WE TYPE A- PEDESTAL - TXDOT
Mica Corporation P.O. Box 161609 Fort Worth , TX 77020 (817) 847-6121 (817) 577-2088	Mica	♦ A ♦ C ♦ D ♦ T- Auxiliary Only ♦ T-All in One	♦ MICA TYPE A-TXDOT ♦ MICA TYPE C-TXDOT ♦ MICA TYPE D-TXDOT ♦ MICA TYPE T- Auxiliary Only –TXDOT ♦ MICA TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Specialty Control Systems 629 SH 3 League City , TX 77573 (281) 332-0999 http://www.specialtycontrol.com/	SCS	<ul style="list-style-type: none"> ◆ A ◆ D ◆ T-All in One ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ SCS TYPE A-TXDOT ◆ SCS TYPE D-TXDOT ◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ SCS TYPE D-PEDESTAL-TXDOT
Tesco Controls, Inc. 3434 52 nd Ave. Sacramento , CA 95823 (916) 395-8800 http://www.tescocontrols.com/home.htm	Tesco	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ C-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240) ◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480) ◆ TESCO TYPE C-PEDESTAL-TXDOT ◆ TESCO TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Love Electric, Inc. 3128 Spur 124. Tyler , TX 75707 (903) 592-7561	Love	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ A 	<ul style="list-style-type: none"> ◆ LEI TYPE A-PEDESTAL-TXDOT (120/240) ◆ LEI TYPE A-PEDESTAL-TXDOT (240/480) ◆ LEI TYPE A-TXDOT
Myers Power Products, Inc. 725 E. Harrison St. Corona , CA 92879 (951) 520-1900 (866) 696-9377 http://www.myerspwrproducts.com	Myers	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ MEUG16 TYPE A-PEDESTAL-TXDOT ◆ MEUG16 TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Tri-State Electric, Ltd. 4604 Titanic Ave. El Paso , TX 79904 (915) 755-8803	Tri-State	◆ A	◆ TS1000 TYPE A-TXDOT
Associated Starters & Controls 310 Breesport, Ste. D San Antonio , TX 78216 (210) 798-1334 (888) 798-1334	ASC	◆ A ◆ D ◆ A - Pedestal ◆ D - Pedestal	◆ ASC TYPE A-TXDOT ◆ ASC TYPE D-TXDOT ◆ ASC TYPE A-PEDESTAL - TXDOT ◆ ASC TYPE D-PEDESTAL - TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Milbank Manufacturing Co. 4801 Deramus Kansas City , MO 64120 (816) 483-5314 (Main Switch Board) (660) 463-0800 (Commercial Pedestal) http://milbankmfg.com	Milbank	♦ A - Pedestal ♦ A - Pedestal ♦ D - Pedestal	♦ MB TYPE A-PEDESTAL –TXDOT (120/240) ♦ MB TYPE A-PEDESTAL –TXDOT (240/480) ♦ MB TYPE D-PEDESTAL –TXDOT (120/240)

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
<p>Tork</p> <p>1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042</p> <p>http://www.tork.com/</p>	Tork	◆ 120-277 Volt Photocell	<p>◆ S895 or ◆ NSI-TORK S895 *</p> <p>* Tork has recently been bought out by NSI</p>
<p>American Electric Lighting / DTL</p> <p>P.O. Box 3004 Newark, OH 43800 (800) 754-0463</p> <p>http://www.darktolight.com</p>	DTL	◆ 120-277 Volt Photocell	◆ DUX124 -12A30
<p>Tyco Electronics</p> <p>8000 Purfoy Rd. Fuquay-Varina, NC 27526 (919)557-8459</p> <p>http://www.tycoelectronics.com/</p>	Tyco	◆ 120-277 Volt Photocell	◆ ALR-SST-PV-IES-UL (3E7425-000)

**Roadway Illumination and Electrical Supplies
Table of Contents**

Materials Pre-qualified for Illumination and Electrical items 610-628
No additional submittals are required for products that are pre-qualified

	<u>Page</u>
Item 610 – Roadway Illumination Assemblies.....	2
Item 613 – High Mast Illumination Pole.....	12
Item 614 – High Mast Illumination Assemblies.....	13
Item 618 – Conduit..... (Includes fittings, junction boxes and expansion joints - Future)	18
Item 620 – Electrical Conductors..... (Includes fuse holders) (and applicable parts for making splices - Future)	24
Item 621 – Tray Cable.....	27
Item 622 – Duct Cable.....	29
Item 624 – Ground Boxes.....	31
Item 628 – Electrical Services.....	37

Notice:

All submittal and corresponding documentation becomes public information.
All manufacturers' products that are listed within this document are pre-qualified.
TxDOT reserves the right to remove any manufacturer or product from this list, at any time. Manufacturers interested in being added to the pre-qualified list should contact Traffic Operations Division.

Item 610 – Roadway Illumination Assemblies

General

The following products are pre-qualified for use on the projects where roadway illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	♦ Induction Fluorescent Underpass Fixture	♦ UDP-165-QL-GR
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	♦ Induction Fluorescent Underpass Fixture – Steel Housing ♦ Induction Fluorescent Underpass Fixture – Aluminum Housing	♦ TS2020-3/3-1-150IND- 277V-R-SSPH-TEXAS ♦ TS2020-*/*-150IND- *Volt-8-SSPH-TDOT- ALUMINUM
ESCO Lighting 3254 N. Kilborn Ave. Chicago, IL 60641 (773) 427-7000 http://www.escolighting.com	ESCO	♦ Induction Fluorescent Underpass Fixture	♦ SP2343

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
<p>H.E. Williams</p> <p>831 W. Fairview Ave. P.O. Box 837 Carthage, MO 64836 (417) 358-4065</p> <p>http://www.hew.com</p>	<p>Infinity</p>	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture ◆ BB Box Beam ◆ BD Bridge Deck ◆ UB U-Beam 	<ul style="list-style-type: none"> ◆ ICERL1-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL3-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL5-150S-41K-BAT/CG1-14DEG-UNV <p>New Part Numbers – Same Fixture – October 2006 Old Part Numbers (ICEDC) Phased Out</p>
<p>Cooper</p> <p>1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800</p> <p>http://www.cooperlighting.com</p>	<p>Fail-Safe</p>	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ TF28-150ICE-UNV-A1432

Roadway Illumination Assemblies – Luminaire			
Manufacturer	Brand	Type	Model
<p>Cooper</p> <p>1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800</p> <p>http://www.cooperlighting.com</p>	Streetworks	<ul style="list-style-type: none"> ◆ 150W HPS- 240/480 Volt ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ OVW15SMJ3DD0004 ◆ OVW25SMG2DD0001 ◆ OVW25SMJ2DD0002 ◆ OVW40SMG2DD0005 ◆ OVW40SMJ2DD0003
<p>G.E. Lighting Systems, Inc.</p> <p>3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372</p> <p>http://www.gelightingsystems.com</p>	M4RC	<ul style="list-style-type: none"> ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ M4RC25S7M4GSC2311 or GE Manufacture #168025 ◆ M4RC25S9M4GSC2311 or GE Manufacture #168023 ◆ M4RC40S7M4GSC3311 or GE Manufacture #157785 ◆ M4RC40S9M4GSC3311 or GE Manufacture #158165

Item 610 – Roadway Illumination Assemblies

General

Roadway Illumination Poles do not need to be pre-qualified when TxDOT RIP-07(Roadway Illumination Poles -2007) standard sheets are included in the plan set.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of Item 610 and applicable Special Provisions to Item 610.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP-07 (Roadway Illumination Poles -2007). Poles fabricated according to RIP-07 require no shop drawings.

Alternate designs to RIP-07 or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on submitting shop drawings electronically go to:

<http://www.dot.state.tx.us/publications/bridge.htm>

File is titled: Guide to Electronic Shop Drawing Submittal.

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
<p>Valmont Industries, Inc.</p> <p>7002 N. 288th St. P.O. Box 358 Valley, NE 68064-0358 (402) 359-2201</p> <p>http://www.valmont.com/</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Barrier Mount ◆ 30-50 Ft.-Steel Pole Bridge Mount 	<ul style="list-style-type: none"> ◆ All Poles Based on Drawing # DB00388 Sheet 1 of 2 Revision Date 6-24-02 ◆ All Anchor Bolt Details Based on Drawing # DB00388 Sheet 2 of 2 Revision Dated 6-24-02
<p>Union Metal Corporation</p> <p>1432 Maple Ave., NE P.O. Box 9920 Canton, OH 44705 (330) 456-7653</p> <p>http://www.unionmetal.com/</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # T1408-B2 – Sheet 1 of 2 Revision Date 11-8-02 & #T1408-B2 – Sheet 2 of 2 Dated 1-11-00 Anchor Bolt Details Based on Drawing # AA8 & AA3A – No Date ◆ Based on Drawing # T1406-B4 – Sheet 1 of 2 Revision Date 11-8-02 & #T1404-B4 – Sheet 2 of 2 Dated 1-26-00 Anchor Bolt Details Based on Drawing # A2A & A2D – Revision Date 11-8-02 ◆ Based on Drawing # T1406-B3 – Sheet 1 of 2 Revision Date 11-8-02 & #T1406-B3 – Sheet 2 of 2 Dated 1-14-00 Anchor Bolt Details Based on Drawing # AA9 & AA2A – Revision Date 11-8-02

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Hapco 26252 Hillman Highway Abingdon, VA 24210 (800) 368-7171 http://www.hapco.com/		<ul style="list-style-type: none"> ◆ 40 Ft.-Aluminum with 8Ft. Arm Only 	<ul style="list-style-type: none"> ◆ Based on Drawing # B82627 and B83058
Whitco Poles 7700 Wyatt Drive Ft. Worth, TX 76108 (800) 433-7753 http://www.whitcoples.com		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # TX-DOT-003 ◆ Based on Drawing # TX-DOT-001 ◆ Based on Drawing # TX-DOT-002

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Millerbernd Manufacturing, Co. 622 6th. Street South P.O. Box 98 Winsted, MN 55395 (320) 485-2111 http://www.millerberndmfg.com		◆ 30 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B588 Sheet 1 of 1 Revision Date 6-15-05
		◆ 40 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B586 Sheet 1 of 1 Revision Date 6-3-05
		◆ 50 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B587 Sheet 1 of 1 Revision Date 6-3-05
		◆ 30 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B694 Sheet 1 of 1 Revision Date 9-26-05
		◆ 40 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B691 Sheet 1 of 1 Revision Date 9-26-05
		◆ 50 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B693 Sheet 1 of 1 Revision Date 9-26-05
		◆ 30 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B589 Sheet 1 of 1 Revision Date 6-28-05
		◆ 40 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B590 Sheet 1 of 1 Revision Date 6-28-05
		◆ 50 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B591 Sheet 1 of 1 Revision Date 6-28-05
		◆ 30 Ft.-Requisition Pole	◆ Based on Drawing # 730B707 Sheet 1 of 1 Date 7-13-05
		◆ 40 Ft.-Requisition Pole	◆ Based on Drawing # 730B643 Sheet 1 of 1 Revision Date 6-16-05
		◆ 50 Ft.-Requisition Pole	◆ Based on Drawing # 730B644 Sheet 1 of 1 Revision Date 6-16-05

High Pressure Sodium Lamps			
Manufacturer	Brand	Type	Model
Osram Sylvania 100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828 http://www.sylvania.com/	Sylvania - Lumalux Plus®/ECO	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 67312 - LU400/PLUS/ECO ◆ 67572 - LU250/PLUS/ECO ◆ 67494 - LU150/55/PLUS/ECO

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI
American Electric Lighting / DTL P.O. Box 3004 Newark, OH 43800 (800) 754-0463 http://www.darktlight.com	DTL	◆ 120-277 Volt Photocell	◆ DUX124 -12A30
Tyco Electronics 8000 Purfoy Rd. Fuquay-Varina, NC 27526 (919) 557-8459 http://www.tycoelectronics.com/	Tyco	◆ 120-277 Volt Photocell	◆ ALR-SST-PV-IES-UL (3E7425-000)

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394-2877 http://www.bussmann.com/	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ OLEXYCSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>
Ferraz Shawmut Inc. 374 Merrimac Street Newburyport, MA 01950 (978) 462-6662 http://www.ferrazshawmut.com	Ferraz Shawmut	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ FEX-91-91-BA – used when no neutral is required ◆ FEXN-91-91-BA – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>

Item 613 – High Mast Illumination Poles

General

There are no pre-qualified High Mast Illumination Poles.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of item 613. Provide components that fit together properly.

- (a) **Alternate Design.** Approval must be obtained for alternate designs. Obtain approval to eliminate the ground sleeve (with associated changes to the base plate bolt circle) or to significantly modify the access hole ring by testing a full-scale specimen of the base section. Support the specimen at the base plate on double-nutted anchor bolts. Load the specimen to produce maximum compression on the access hole ring. Provide test results that clearly demonstrate the specimen can develop the factored moment capacity (load factor of 1.38 multiplied by wind factor of 1.4 multiplied by F_b) which is approximately the full plastic bending capacity. Once a fabricator obtains approval for modified details, this approval extends to all future TxDOT projects.
- (b) **Shop Drawings.** Do not provide shop drawings for high mast illumination poles fabricated in accordance with this Item and the plans. Provide shop drawings for alternate designs. The submission of shop drawings is only required the first time each alternate design is used. Submit seven sets of shop drawings to the Bridge Division.

Item 614 – High Mast Illumination Assemblies

General

The following products are pre-qualified for use on the projects where high mast illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Luminaire – High Mast			
Manufacturer	Brand	Type	Model
Holophane 214 Oakwood Ave. Newark, OH 43055 (740) 345-9631 (512) 791-7982 http://www.holophane.com	High Mast Cutoff-HMSC High Mast Dark Skies-HMSD	<ul style="list-style-type: none"> ◆ High Mast – Type B ◆ High Mast – Type S Type A and C Removed From List. 4-26-07	<ul style="list-style-type: none"> ◆ HMSC40RHP48BTX03 ◆ HMSD40RHP48STX03 Type A and C Removed From List. 4-26-07
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelighting.com	G.E.	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ 159189 ◆ 159190 ◆ 159191 ◆ 159193
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Streetworks	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ GMA40SM83DD0018 ◆ GMA40SM83DD0019 ◆ GMA40SM83DD0020 ◆ GMA40SM8ARD0017

High Mast Kit

Manufacturer	Brand	Type	Model
Mica Corporation 5750 N. Riverside Dr. Fort Worth, TX 76137 (817) 577-2088 http://www.micacorporation.com	Mica Corporation	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-PH ♦ HMK-150-PH ♦ HMK -175-PH
Carolina High Mast, Inc. 700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046	Carolina High Mast, Inc.	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-CHMI ♦ HMK-150-CHMI ♦ HMK -175-CHMI
Rexel 2400 Brockton San Antonio, TX 78217 (210) 352-1047 http://www.rexelusa.com	Rexel	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-RX ♦ HMK-150-RX ♦ HMK -175-RX

High Mast Kit

Manufacturer	Brand	Type	Model
Wildcat Electric Supply, Ltd. 2061 Clovis Barker Road #5. San Marcos, TX 77666 (512) 396-8900 (866) 301-5200 http://www.wildcatelectric.com	Wildcat	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-WC ◆ HMK-150-WC ◆ HMK -175-WC

High Mast Ring- Previously Approved Shop Drawings

Manufacturer		Type	
<p>J.W. Hall Enterprises, Inc.</p> <p>17731 Elizabeth Rd. Algoa, TX 77511 (281) 337-6311</p> <p>http://www.jwhall.com</p>		<p>◆ High Mast Ring</p> <p>Drawing # HM 2002-01 Sheets 1 through 6 Drawing # HE 2002 Sheets 7 through 9</p>	
<p>Carolina High Mast, Inc.</p> <p>700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046</p>		<p>◆ High Mast Ring</p> <p>Drawing # TXDOT-01 Sheets 1 through 5 Drawing # TXDOT-02 Sheets 1 through 4 Drawing # TXDOT-03 Sheets 1 through 4 Drawing # TXDOT-04 Sheets 1 through 3</p>	
<p>Traffic Control Devices</p> <p>4417 Main Street Pearland, TX 77581 (281) 992-3030</p> <p>http://www.tcd.cc</p>		<p>◆ High Mast Ring</p> <p>Drawing # E-901 Sheets 1 through 10</p>	

High Mast Ring- Previously Approved Shop Drawings			
Manufacturer		Type	
Brookfield Fabricating Corp. Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214		♦ High Mast Ring Drawings Dated 4-8-96 Sheets 1 through 4	
PKM Steel Service 228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638 http://www.pkmsteel.com/		♦ High Mast Ring Sheet E1 Dated 8-2-05 Sheet 1 Dated 10-12-05 Sheet 2 Dated 10-12-05 Sheet 3 Dated 10-12-05	

Item 618 – Conduit

General

The following products have been tested and are pre-qualified for use on projects where Conduit, Junction Boxes, Expansion Joints and Conduit Fittings are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Rigid Metallic Conduit – (RMC)			
Manufacturer	Brand	Type	Model
Allied 16100 S. Lathrop Avenue Harvey, IL 60426-6021 (800) 882-5543 http://www.alliedtube.com	Allied	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
Wheatland 900 Haddon Avenue P.O. Box 600 Collingswood, NJ 08108-0600 (800) 257-8182 http://www.wheatland.com/	Wheatland	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)			
Manufacturer	Brand	Type	Model
Cantex P.O. Box 340 Mineral Wells, TX 76068 (940) 325-3344 (800) 433-5623 http://www.cantexinc.com/	Cantex	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Georgia Pipe Company 1206 Sunset Drive P.O. Box 2235 Thomasville, GA 31799 (229) 226-7337 http://www.alliedtube.com/	Georgia Pipe	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	J-M PVC Conduits	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Lansom & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlon	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)			
Manufacturer	Brand	Type	Model
National Pipe & Plastics, Inc. 3421 Old Vestal Road Vestal, NY 13850 (800) 836-4350 http://www.nationalpipe.com/	NPPI PVC	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791 http://www.heritageplastics.com/	Heritage	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
PW Eagle, Inc. P.O. Box 10049 Eugene, OR 97477 (800) 347-0200 http://www.pweaglepipe.com	PW Eagle	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Perma-Guard/ UL	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SW 400 050 N000-UL ◆ 3/4" SW 400 075 N000-UL ◆ 1" SW 400 100 N000-UL ◆ 2" SW 400 200 N000-UL ◆ 3" SW 400 300 N000-UL
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line – Smoothwall	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SCH-40 (0538-11007-0000000) ◆ 3/4" SCH-40 (0738-11007-0000000) ◆ 1" SCH-40 (1038-11007-0000000) ◆ 1.25" SCH-40 (1238-11007-0000000) ◆ 1.50" SCH-40 (1538-11007-0000000) ◆ 2" SCH-40 (2038-11007-0000000) ◆ 3" SCH-40 (3038-11007-0000000) ◆ 4" SCH-40 (3538-11007-0000000) ◆ 5" SCH-40 (3638-11007-0000000) ◆ 6" SCH-40 (3738-11007-0000000)
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	HDPE ® - HDPE Duct/Inner Duct	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1 ¼" 1.25 7.5M S40 BLK ◆ 1 ½" 1.5 6M S40 BLK ◆ 2" 2 3M S40 BLK ◆ 3" 3 1M S40 BLK ◆ 4" 4 725M S40 BLK
Lamson & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlton/UL Listed HDPE	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" U2C4-UV ◆ 3/4" U3C4-UV ◆ 1" U5C4-UV ◆ 1 ¼" U6C4-UV ◆ 1 ½" U9C4-UV ◆ 2" U13C4-UV ◆ 3" U15C4-UV ◆ 4" U16C4-UV

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Rinker Materials P.O. Box 390 Gainsville, TX 76240 (800) 433-5632 http://www.rinker.com/	PolyPipe® HDPE Duct Pipe	♦ HDPE Conduit – Schedule 40 Color - Black	♦ PolyPipe® EHMW – PE3408 ½” to 4”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond HDPE	♦ HDPE Conduit – Schedule 40 Color - Black	♦ 1/2" BDI065BK-UL ♦ 3/4" BDI095BK-UL ♦ 1" BDI115BK-UL ♦ 1 ¼" BDI135BK-UL ♦ 1 ½" BDI165BK-UL ♦ 2" BDI215BK-UL ♦ 3" BDI315BK-UL ♦ 4" BDI414BK-UL

Precast Polymer Concrete Junction Box for Concrete Traffic Barrier			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.quazite.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ Median Barrier Box ◆ Median Barrier Box – for Concrete Barrier (F-Shape) ◆ Junction Box w/Cover OD – 9 X 11 X 7 ¼” ID – 7 ⅜ X 9 ⅜ X 6 ½” 	<ul style="list-style-type: none"> ◆ PC1012B500/PC1012CA00 ◆ PC0516B500/PC0516CA00 ◆ PC0608Z503831 Cover Imprinted “Danger High Voltage – Illumination”

Item 620 – Conductors

General

The following products are pre-qualified for use on projects where Conductors are furnished or installed as required by the item descriptive code. Where splicing materials, insulating materials, GelCaps, fuse holders or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil ◆ 6 AWG & 8AWG Available in Black Only
Encore Wire 1410 Millwood Rd. McKinney, TX 75069 (800) 962-9473 http://www.encorewire.com/	Encore	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 1000 kcmil
Service Wire Company Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil ♦ 6 AWG & 8AWG Available in Black Only
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394 2877 http://www.bussmann.com/	Bussmann	♦ Double-pole ♦ Double-pole	♦ HEX-KW-DRYC – used when no neutral is required ♦ HEN-KW-DRYC – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 sheets are in plan set.
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	♦ Double-pole ♦ Double-pole	♦ 0LEXYYSX – used when no neutral is required ♦ LEXT0YYYSX – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.
Ferraz Shawmut Inc. 374 Merrimac Street Newburyport, MA 01950 (978) 462-6662 http://www.ferrazshawmut.com	Ferraz Shawmut	♦ Double-pole ♦ Double-pole	♦ FEX-91-91-BA – used when no neutral is required ♦ FEXN-91-91-BA – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.

Item 621 – Tray Cable

General

The following products are pre-qualified for use on projects where Tray Cable is furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 500 kcmil
Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 750 kcmil
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	♦ Available in 14 AWG through 500 kcmil

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ Tray Cable – Power Cable – XLP XHHW Insulation, PVC Jacket, Copper Conductors	♦ Available in 12 AWG -3 and 4 conductor

Item 622 – Duct Cable

General

The following products are pre-qualified for use on projects where Duct Cable is furnished or installed as required by the item descriptive code. Where connectors are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Arnco	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (800) 233-3190 http://www.drakausa.com	Draka	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Item 624 – Ground Boxes

General

The following products are pre-qualified for use on projects where Ground Boxes are furnished or installed as required by descriptive code. Products are subject to testing. No substitutions will be allowed for Types A through E as listed below. For types not listed below, applicable TxDOT standards and specifications will apply.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.quazite.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PG1324B512 / PG1324H506 ◆ 2PG1324B512 / PG1324H506 ◆ PG1730B512 / PG1730H507 ◆ PG1730B517 / PG1730H507 ◆ PG1324B514 / PG1324H506
		Type D model number changed from 522 to 517. Same box. 522 acceptable to allow for boxes already in stock, until Oct.2008. Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PG1324H5064A (Danger High Voltage FTM) ◆ PG1324H5064B (Danger High Voltage Irrigation) ◆ PG1324H5064D(Danger High Voltage Illumination) ◆ PG1324H5064E (Danger High Voltage Traffic Signal) ◆ PG1324H5064G (Danger High Voltage Sign Lighting) ◆ PG1324H506H7 (Danger High Voltage)
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PG1730H5074A (Danger High Voltage FTM) ◆ PG1730H5064B (Danger High Voltage Irrigation) ◆ PG1730H5074D (Danger High Voltage Illumination) ◆ PG1730H5074E (Danger High Voltage Traffic Signal) ◆ PG1730H5074G (Danger High Voltage Sign Lighting) ◆ PG1730H507H7 (Danger High Voltage)

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Armorcast Products Company 13230 Saticoy St. North Hollywood, CA. 91605 (818) 982-3600 http://www.armorcastprod.com/	Armor cast	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For All Boxes	<ul style="list-style-type: none"> ◆ A6001946TAPCX12 ◆ A6001946TAPCX24 ◆ A6001640TAPCX12 ◆ A6001640TAPCX22 ◆ A6001946TAPCX18 <ul style="list-style-type: none"> ◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
NewBasis 2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747 http://www.newbasis.com/	NewBasis	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ PCB132412G482 ◆ (2) PCB132412G482
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PCC1324DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1324DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PCC1730DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1730DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1730DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1730DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Synertech Moulded Products 2 Inverness St. Candiac, Quebec Canada J5R 4WS Toll Free (888) 868-5214 http://www.synertechproducts.com	Synertech	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ S132412HH90 ◆ S132424HH90 ◆ S173012HH90 ◆ S173024HH90 ◆ S132418HH90
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ S1324HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNAL ◆ S1324HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1324HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1324HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ S1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ S1730HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Carson Industries, LLC. 1160 Nicole Court Glendora, CA. 91740 (800) 735-5566 (909) 592-6272 http://www.carsonind.com/	Carson	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ 13242030 ◆ 13242032
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ 17302061 ◆ 17302063 ◆ 13242031
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 13244156- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 13244158- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 13244171- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 13244170- DANGER HIGH VOLTAGE/LANDSCAPE
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 17304185- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 17304183- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 17304249- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 17305021- DANGER HIGH VOLTAGE/LANDSCAPE

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
CDR Systems Corporation 146 South Atlantic Ave. Ormond Beach, FL. 32176 (386) 615-9510 http://www.cdrsystems.com/	cdr	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For Type A, B & E Cover For Type C & D Cover For All Boxes 	<ul style="list-style-type: none"> ◆ SB14-1324-12-0287 ◆ SB14-1324-12-0287 -2 boxes stacked ◆ SB14-1730-12-0494 ◆ SC14-1730-22-0499 ◆ SB14-1324-18-0288 ◆ SC12-1324-02 ◆ SC12-1730-02 ◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Item 628 – Electrical Service

General

The following products have been tested and are pre-qualified for use on projects where Electrical Services are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Electrical Service			
Manufacturer	Brand	Type	Model
Electrol Systems 10623 Sentinel Drive San Antonio, TX 78217 (210) 599-6485 (888) 853-8944 http://www.electrolsystems.com/	Electrol	<ul style="list-style-type: none"> ◆ A ◆ C ◆ C- Auxiliary Only ◆ D ◆ T- Auxiliary Only ◆ T-All in One ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ ELECTROL TYPE A-TXDOT ◆ ELECTROL TYPE C-TXDOT ◆ ELECTROL TYPE C- Auxiliary Only – TXDOT ◆ ELECTROL TYPE D-TXDOT ◆ ELECTROL TYPE T- Auxiliary Only - TXDOT ◆ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT ◆ ELECTROL TYPE A-PEDESTAL-TXDOT ◆ ELECTROL TYPE D-PEDESTAL-TXDOT
S&J Electric PO Box 121516 Ft Worth, TX 76121 (817) 560-0000 http://www.sj-electric.com/index.html	Stanfield Enterprises Inc.	<ul style="list-style-type: none"> ◆ A ◆ A-Pedestal ◆ C ◆ C- Auxiliary Only ◆ D ◆ D-Pedestal ◆ T- Auxiliary Only ◆ T-All in One 	<ul style="list-style-type: none"> ◆ STANFIELD ENTERPRISE INC. TYPE A-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE A-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C-Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T-ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
WE Manufacturing 5535 Harvey Wilson Drive Houston , TX 77020 (713) 676-2298 (800) 880-9453 http://www.wemanufacturing.com/	WE	<ul style="list-style-type: none"> ◆ A ◆ C ◆ C- Auxiliary Only ◆ D ◆ T- Auxiliary Only ◆ T-All in One ◆ A - Pedestal 	<ul style="list-style-type: none"> ◆ WE TYPE A-TXDOT ◆ WE TYPE C-TXDOT ◆ WE TYPE C- Auxiliary Only –TXDOT ◆ WE TYPE D-TXDOT ◆ WE TYPE T- Auxiliary Only –TXDOT ◆ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ WE TYPE A- PEDESTAL - TXDOT
Mica Corporation P.O. Box 161609 Fort Worth , TX 77020 (817) 847-6121 (817) 577-2088	Mica	<ul style="list-style-type: none"> ◆ A ◆ C ◆ D ◆ T- Auxiliary Only ◆ T-All in One 	<ul style="list-style-type: none"> ◆ MICA TYPE A-TXDOT ◆ MICA TYPE C-TXDOT ◆ MICA TYPE D-TXDOT ◆ MICA TYPE T- Auxiliary Only –TXDOT ◆ MICA TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Specialty Control Systems 629 SH 3 League City , TX 77573 (281) 332-0999 http://www.specialtycontrol.com/	SCS	<ul style="list-style-type: none"> ◆ A ◆ D ◆ T-All in One ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ SCS TYPE A-TXDOT ◆ SCS TYPE D-TXDOT ◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ SCS TYPE D-PEDESTAL-TXDOT
Tesco Controls, Inc. 3434 52 nd Ave. Sacramento , CA 95823 (916) 395-8800 http://www.tescocontrols.com/home.htm	Tesco	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ C-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240) ◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480) ◆ TESCO TYPE C-PEDESTAL-TXDOT ◆ TESCO TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Love Electric, Inc. 3128 Spur 124. Tyler , TX 75707 (903) 592-7561	Love	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ A 	<ul style="list-style-type: none"> ◆ LEI TYPE A-PEDESTAL-TXDOT (120/240) ◆ LEI TYPE A-PEDESTAL-TXDOT (240/480) ◆ LEI TYPE A-TXDOT
Myers Power Products, Inc. 725 E. Harrison St. Corona , CA 92879 (951) 520-1900 (866) 696-9377 http://www.myerspwrproducts.com	Myers	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ MEUG16 TYPE A-PEDESTAL-TXDOT ◆ MEUG16 TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Tri-State Electric, Ltd. 4604 Titanic Ave. El Paso , TX 79904 (915) 755-8803	Tri-State	◆ A	◆ TS1000 TYPE A-TXDOT
Associated Starters & Controls 310 Breesport, Ste. D San Antonio , TX 78216 (210) 798-1334 (888) 798-1334	ASC	◆ A ◆ C ◆ D ◆ T ◆ T-Auxiliary ◆ A - Pedestal ◆ D - Pedestal	◆ ASC TYPE A-TXDOT ◆ ASC TYPE C-TXDOT ◆ ASC TYPE D-TXDOT ◆ ASC TYPE T-TXDOT ◆ ASC TYPE T-AUX-TXDOT ◆ ASC TYPE A-PEDESTAL - TXDOT ◆ ASC TYPE D-PEDESTAL - TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Milbank Manufacturing Co. 4801 Deramus Kansas City , MO 64120 (816) 483-5314 (Main Switch Board) (660) 463-0800 (Commercial Pedestal) http://milbankmfg.com	Milbank	♦ A - Pedestal ♦ A - Pedestal ♦ D - Pedestal	♦ MB TYPE A-PEDESTAL –TXDOT (120/240) ♦ MB TYPE A-PEDESTAL –TXDOT (240/480) ♦ MB TYPE D-PEDESTAL –TXDOT (120/240)

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
<p>Tork</p> <p>1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042</p> <p>http://www.tork.com/</p>	Tork	◆ 120-277 Volt Photocell	<p>◆ S895 or</p> <p>◆ NSI-TORK S895 *</p> <p>* Tork has recently been bought out by NSI</p>
<p>American Electric Lighting / DTL</p> <p>P.O. Box 3004 Newark, OH 43800 (800) 754-0463</p> <p>http://www.darktolight.com</p>	DTL	◆ 120-277 Volt Photocell	◆ DUX124 -12A30
<p>Tyco Electronics</p> <p>8000 Purfoy Rd. Fuquay-Varina, NC 27526 (919)557-8459</p> <p>http://www.tycoelectronics.com/</p>	Tyco	◆ 120-277 Volt Photocell	◆ ALR-SST-PV-IES-UL (3E7425-000)

**Roadway Illumination and Electrical Supplies
Table of Contents**

Materials Pre-qualified for Illumination and Electrical items 610-628
No additional submittals are required for products that are pre-qualified

	<u>Page</u>
Item 610 – Roadway Illumination Assemblies.....	2
Item 613 – High Mast Illumination Pole.....	12
Item 614 – High Mast Illumination Assemblies.....	13
Item 618 – Conduit..... (Includes fittings, junction boxes and expansion joints - Future)	18
Item 620 – Electrical Conductors..... (Includes fuse holders) (and applicable parts for making splices - Future)	24
Item 621 – Tray Cable.....	27
Item 622 – Duct Cable.....	29
Item 624 – Ground Boxes.....	31
Item 628 – Electrical Services.....	37

Notice:

All submittal and corresponding documentation becomes public information.
All manufacturers' products that are listed within this document are pre-qualified.
TxDOT reserves the right to remove any manufacturer or product from this list, at any time. Manufacturers interested in being added to the pre-qualified list should contact Traffic Operations Division.

Item 610 – Roadway Illumination Assemblies

General

The following products are pre-qualified for use on the projects where roadway illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
Energy Plus Lighting 1465 FM 2673 Canyon Lake, TX 78133 (830) 964-2357 http://www.energypluslight.com	UDP SERIES	♦ Induction Fluorescent Underpass Fixture	♦ UDP-165-QL-GR
Kenall Lighting 1020 Lakeside Dr. Gurnee, IL 60031 (800) 453-6255 http://www.kenall.com	KENALL	♦ Induction Fluorescent Underpass Fixture – Steel Housing ♦ Induction Fluorescent Underpass Fixture – Aluminum Housing	♦ TS2020-3/3-1-150IND- 277V-R-SSPH-TEXAS ♦ TS2020-*/*-150IND- *Volt-8-SSPH-TDOT- ALUMINUM
ESCO Lighting 3254 N. Kilborn Ave. Chicago, IL 60641 (773) 427-7000 http://www.escolighting.com	ESCO	♦ Induction Fluorescent Underpass Fixture	♦ SP2343

Roadway Illumination Assemblies – Underpass Fixture			
Manufacturer	Brand	Type	Model
H.E. Williams 831 W. Fairview Ave. P.O. Box 837 Carthage, MO 64836 (417) 358-4065 http://www.hew.com	Infinity	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture ◆ BB Box Beam ◆ BD Bridge Deck ◆ UB U-Beam 	<ul style="list-style-type: none"> ◆ ICERL1-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL3-150S-41K-BAT/CG1-GRA-UNV ◆ ICERL5-150S-41K-BAT/CG1-14DEG-UNV <p>New Part Numbers – Same Fixture – October 2006 Old Part Numbers (ICEDC) Phased Out</p>
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Fail-Safe	<ul style="list-style-type: none"> ◆ Induction Fluorescent Underpass Fixture 	<ul style="list-style-type: none"> ◆ TF28-150ICE-UNV-A1432

Roadway Illumination Assemblies – Luminaire			
Manufacturer	Brand	Type	Model
<p>Cooper</p> <p>1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800</p> <p>http://www.cooperlighting.com</p>	Streetworks	<ul style="list-style-type: none"> ◆ 150W HPS- 240/480 Volt ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ OVW15SMJ3DD0004 ◆ OVW25SMG2DD0001 ◆ OVW25SMJ2DD0002 ◆ OVW40SMG2DD0005 ◆ OVW40SMJ2DD0003
<p>G.E. Lighting Systems, Inc.</p> <p>3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372</p> <p>http://www.gelightingsystems.com</p>	M4RC	<ul style="list-style-type: none"> ◆ 250W HPS- 120/240 Volt ◆ 250W HPS- 240/480 Volt ◆ 400W HPS- 120/240 Volt ◆ 400W HPS- 240/480 Volt 	<ul style="list-style-type: none"> ◆ M4RC25S7M4GSC2311 or GE Manufacture #168025 ◆ M4RC25S9M4GSC2311 or GE Manufacture #168023 ◆ M4RC40S7M4GSC3311 or GE Manufacture #157785 ◆ M4RC40S9M4GSC3311 or GE Manufacture #158165

Item 610 – Roadway Illumination Assemblies

General

Roadway Illumination Poles do not need to be pre-qualified when TxDOT RIP-07(Roadway Illumination Poles -2007) standard sheets are included in the plan set.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of Item 610 and applicable Special Provisions to Item 610.

Fabricate steel roadway illumination poles in accordance with TxDOT standards RIP-07 (Roadway Illumination Poles -2007). Poles fabricated according to RIP-07 require no shop drawings.

Alternate designs to RIP-07 or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on submitting shop drawings electronically go to:

<http://www.dot.state.tx.us/publications/bridge.htm>

File is titled: Guide to Electronic Shop Drawing Submittal.

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
<p>Valmont Industries, Inc.</p> <p>7002 N. 288th St. P.O. Box 358 Valley, NE 68064-0358 (402) 359-2201</p> <p>http://www.valmont.com/</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Barrier Mount ◆ 30-50 Ft.-Steel Pole Bridge Mount 	<ul style="list-style-type: none"> ◆ All Poles Based on Drawing # DB00388 Sheet 1 of 2 Revision Date 6-24-02 ◆ All Anchor Bolt Details Based on Drawing # DB00388 Sheet 2 of 2 Revision Dated 6-24-02
<p>Union Metal Corporation</p> <p>1432 Maple Ave., NE P.O. Box 9920 Canton, OH 44705 (330) 456-7653</p> <p>http://www.unionmetal.com/</p>		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # T1408-B2 – Sheet 1 of 2 Revision Date 11-8-02 & #T1408-B2 – Sheet 2 of 2 Dated 1-11-00 Anchor Bolt Details Based on Drawing # AA8 & AA3A – No Date ◆ Based on Drawing # T1406-B4 – Sheet 1 of 2 Revision Date 11-8-02 & #T1404-B4 – Sheet 2 of 2 Dated 1-26-00 Anchor Bolt Details Based on Drawing # A2A & A2D – Revision Date 11-8-02 ◆ Based on Drawing # T1406-B3 – Sheet 1 of 2 Revision Date 11-8-02 & #T1406-B3 – Sheet 2 of 2 Dated 1-14-00 Anchor Bolt Details Based on Drawing # AA9 & AA2A – Revision Date 11-8-02

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Hapco 26252 Hillman Highway Abingdon, VA 24210 (800) 368-7171 http://www.hapco.com/		<ul style="list-style-type: none"> ◆ 40 Ft.-Aluminum with 8Ft. Arm Only 	<ul style="list-style-type: none"> ◆ Based on Drawing # B82627 and B83058
Whitco Poles 7700 Wyatt Drive Ft. Worth, TX 76108 (800) 433-7753 http://www.whitcoples.com		<ul style="list-style-type: none"> ◆ 30-50 Ft.-Steel Pole Transformer Base ◆ 30-50 Ft.-Steel Pole Shoe Base ◆ 30-50 Ft.-Steel Pole Bridge Mount ◆ 30-50 Ft.-Steel Pole Barrier Mount 	<ul style="list-style-type: none"> ◆ Based on Drawing # TX-DOT-003 ◆ Based on Drawing # TX-DOT-001 ◆ Based on Drawing # TX-DOT-002

Roadway Illumination Poles- Previously Approved Shop Drawings			
Manufacturer	Brand	Type	Model
Millerbernd Manufacturing, Co. 622 6th. Street South P.O. Box 98 Winsted, MN 55395 (320) 485-2111 http://www.millerberndmfg.com		◆ 30 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B588 Sheet 1 of 1 Revision Date 6-15-05
		◆ 40 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B586 Sheet 1 of 1 Revision Date 6-3-05
		◆ 50 Ft.-Steel Pole Transformer Base	◆ Based on Drawing # 730B587 Sheet 1 of 1 Revision Date 6-3-05
		◆ 30 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B694 Sheet 1 of 1 Revision Date 9-26-05
		◆ 40 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B691 Sheet 1 of 1 Revision Date 9-26-05
		◆ 50 Ft.-Steel Pole Shoe Base	◆ Based on Drawing # 730B693 Sheet 1 of 1 Revision Date 9-26-05
		◆ 30 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B589 Sheet 1 of 1 Revision Date 6-28-05
		◆ 40 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B590 Sheet 1 of 1 Revision Date 6-28-05
		◆ 50 Ft.-Steel Pole Barrier Mount	◆ Based on Drawing # 730B591 Sheet 1 of 1 Revision Date 6-28-05
		◆ 30 Ft.-Requisition Pole	◆ Based on Drawing # 730B707 Sheet 1 of 1 Date 7-13-05
		◆ 40 Ft.-Requisition Pole	◆ Based on Drawing # 730B643 Sheet 1 of 1 Revision Date 6-16-05
		◆ 50 Ft.-Requisition Pole	◆ Based on Drawing # 730B644 Sheet 1 of 1 Revision Date 6-16-05

High Pressure Sodium Lamps			
Manufacturer	Brand	Type	Model
Osram Sylvania 100 Endicott Street Danvers, MA 24210 (978) 777-1900 For Lamps (800) 544-4828 http://www.sylvania.com/	Sylvania - Lumalux Plus®/ECO	<ul style="list-style-type: none"> ◆ 400 Watt Lamp ◆ 250 Watt Lamp ◆ 150 Watt Lamp 	<ul style="list-style-type: none"> ◆ 67312 - LU400/PLUS/ECO ◆ 67572 - LU250/PLUS/ECO ◆ 67494 - LU150/55/PLUS/ECO

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
Tork 1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042 http://www.tork.com/	Tork	◆ 120-277 Volt Photocell	◆ S895 ◆ NSI-TORK S895 * * Tork has recently been bought out by NSI
American Electric Lighting / DTL P.O. Box 3004 Newark, OH 43800 (800) 754-0463 http://www.darktolight.com	DTL	◆ 120-277 Volt Photocell	◆ DUX124 -12A30
Tyco Electronics 8000 Purfoy Rd. Fuquay-Varina, NC 27526 (919) 557-8459 http://www.tycoelectronics.com/	Tyco	◆ 120-277 Volt Photocell	◆ ALR-SST-PV-IES-UL (3E7425-000)

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394-2877 http://www.bussmann.com/	Bussmann	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ HEX-KW-DRYC – used when no neutral is required ◆ HEN-KW-DRYC – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ OLEXYCSX – used when no neutral is required ◆ LEXT0YYSX – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>
Ferraz Shawmut Inc. 374 Merrimac Street Newburyport, MA 01950 (978) 462-6662 http://www.ferrazshawmut.com	Ferraz Shawmut	<ul style="list-style-type: none"> ◆ Double-pole ◆ Double-pole 	<ul style="list-style-type: none"> ◆ FEX-91-91-BA – used when no neutral is required ◆ FEXN-91-91-BA – used when neutral is present <p>Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.</p>

Item 613 – High Mast Illumination Poles

General

There are no pre-qualified High Mast Illumination Poles.

Construction

Perform work in accordance with the details shown on the plans, and the requirements of item 613. Provide components that fit together properly.

- (a) **Alternate Design.** Approval must be obtained for alternate designs. Obtain approval to eliminate the ground sleeve (with associated changes to the base plate bolt circle) or to significantly modify the access hole ring by testing a full-scale specimen of the base section. Support the specimen at the base plate on double-nutted anchor bolts. Load the specimen to produce maximum compression on the access hole ring. Provide test results that clearly demonstrate the specimen can develop the factored moment capacity (load factor of 1.38 multiplied by wind factor of 1.4 multiplied by F_b) which is approximately the full plastic bending capacity. Once a fabricator obtains approval for modified details, this approval extends to all future TxDOT projects.
- (b) **Shop Drawings.** Do not provide shop drawings for high mast illumination poles fabricated in accordance with this Item and the plans. Provide shop drawings for alternate designs. The submission of shop drawings is only required the first time each alternate design is used. Submit seven sets of shop drawings to the Bridge Division.

Item 614 – High Mast Illumination Assemblies

General

The following products are pre-qualified for use on the projects where high mast illumination assemblies are furnished or installed as required by the item descriptive code. Fixtures are subject to testing. No substitutions of products will be allowed when pre-qualified products are shown. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Luminaire – High Mast			
Manufacturer	Brand	Type	Model
Holophane 214 Oakwood Ave. Newark, OH 43055 (740) 345-9631 (512) 791-7982 http://www.holophane.com	High Mast Cutoff-HMSC High Mast Dark Skies-HMSD	<ul style="list-style-type: none"> ◆ High Mast – Type B ◆ High Mast – Type S Type A and C Removed From List. 4-26-07	<ul style="list-style-type: none"> ◆ HMSC40RHP48BTX03 ◆ HMSD40RHP48STX03 Type A and C Removed From List. 4-26-07
G.E. Lighting Systems, Inc. 3010 Spartanburg Highway Henderson, NC 28793 (800) 305-1372 http://www.gelightingsystems.com	G.E.	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ 159189 ◆ 159190 ◆ 159191 ◆ 159193
Cooper 1121 Highway 74 South Peachtree City, GA 30269 (770) 486-4800 http://www.cooperlighting.com	Streetworks	<ul style="list-style-type: none"> ◆ High Mast – Type A ◆ High Mast – Type B ◆ High Mast – Type C ◆ High Mast – Type S 	<ul style="list-style-type: none"> ◆ GMA40SM83DD0018 ◆ GMA40SM83DD0019 ◆ GMA40SM83DD0020 ◆ GMA40SM8ARD0017

High Mast Kit

Manufacturer	Brand	Type	Model
Mica Corporation 5750 N. Riverside Dr. Fort Worth, TX 76137 (817) 577-2088 http://www.micacorporation.com	Mica Corporation	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-PH ♦ HMK-150-PH ♦ HMK -175-PH
Carolina High Mast, Inc. 700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046	Carolina High Mast, Inc.	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-CHMI ♦ HMK-150-CHMI ♦ HMK -175-CHMI
Rexel 2400 Brockton San Antonio, TX 78217 (210) 352-1047 http://www.rexelusa.com	Rexel	♦ High Mast – 125 Foot ♦ High Mast – 150 Foot ♦ High Mast – 175 Foot	♦ HMK-125-RX ♦ HMK-150-RX ♦ HMK -175-RX

High Mast Kit

Manufacturer	Brand	Type	Model
Wildcat Electric Supply, Ltd. 2061 Clovis Barker Road #5. San Marcos, TX 77666 (512) 396-8900 (866) 301-5200 http://www.wildcatelectric.com	Wildcat	<ul style="list-style-type: none"> ◆ High Mast – 125 Foot ◆ High Mast – 150 Foot ◆ High Mast – 175 Foot 	<ul style="list-style-type: none"> ◆ HMK-125-WC ◆ HMK-150-WC ◆ HMK -175-WC

High Mast Ring- Previously Approved Shop Drawings

Manufacturer		Type	
<p>J.W. Hall Enterprises, Inc.</p> <p>17731 Elizabeth Rd. Algoa, TX 77511 (281) 337-6311</p> <p>http://www.jwhall.com</p>		<p>◆ High Mast Ring</p> <p>Drawing # HM 2002-01 Sheets 1 through 6 Drawing # HE 2002 Sheets 7 through 9</p>	
<p>Carolina High Mast, Inc.</p> <p>700 East McLeroy Blvd. – Suite A Saginaw, TX 76179 (682) 286-0046</p>		<p>◆ High Mast Ring</p> <p>Drawing # TXDOT-01 Sheets 1 through 5 Drawing # TXDOT-02 Sheets 1 through 4 Drawing # TXDOT-03 Sheets 1 through 4 Drawing # TXDOT-04 Sheets 1 through 3</p>	
<p>Traffic Control Devices</p> <p>4417 Main Street Pearland, TX 77581 (281) 992-3030</p> <p>http://www.tcd.cc</p>		<p>◆ High Mast Ring</p> <p>Drawing # E-901 Sheets 1 through 10</p>	

High Mast Ring- Previously Approved Shop Drawings			
Manufacturer		Type	
Brookfield Fabricating Corp. Stanbury Industrial Dr. Brookfield, MO 64628 (660) 258-2214		♦ High Mast Ring Drawings Dated 4-8-96 Sheets 1 through 4	
PKM Steel Service 228 E. Avenue A P.O. Box 1066 Salina, KS 67402-1066 (785) 827-3638 http://www.pkmsteel.com/		♦ High Mast Ring Sheet E1 Dated 8-2-05 Sheet 1 Dated 10-12-05 Sheet 2 Dated 10-12-05 Sheet 3 Dated 10-12-05	

Item 618 – Conduit

General

The following products have been tested and are pre-qualified for use on projects where Conduit, Junction Boxes, Expansion Joints and Conduit Fittings are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Rigid Metallic Conduit – (RMC)			
Manufacturer	Brand	Type	Model
Allied 16100 S. Lathrop Avenue Harvey, IL 60426-6021 (800) 882-5543 http://www.alliedtube.com	Allied	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"
Wheatland 900 Haddon Avenue P.O. Box 600 Collingswood, NJ 08108-0600 (800) 257-8182 http://www.wheatland.com/	Wheatland	◆ Galvanized Rigid Metal Conduit (RMC)	◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)			
Manufacturer	Brand	Type	Model
Cantex P.O. Box 340 Mineral Wells, TX 76068 (940) 325-3344 (800) 433-5623 http://www.cantexinc.com/	Cantex	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Georgia Pipe Company 1206 Sunset Drive P.O. Box 2235 Thomasville, GA 31799 (229) 226-7337 http://www.alliedtube.com/	Georgia Pipe	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	J-M PVC Conduits	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Lansom & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlon	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

PolyVinyl Chloride Pipe- (PVC)

Manufacturer	Brand	Type	Model
National Pipe & Plastics, Inc. 3421 Old Vestal Road Vestal, NY 13850 (800) 836-4350 http://www.nationalpipe.com/	NPPI PVC	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
Heritage Plastics Central, Inc. 1202 N. Bowie Drive Weatherford, TX 76086 (817) 594-8791 http://www.heritageplastics.com/	Heritage	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"
PW Eagle, Inc. P.O. Box 10049 Eugene, OR 97477 (800) 347-0200 http://www.pweaglepipe.com	PW Eagle	◆ PVC	◆ Schedule 40 and 80 ◆ Trade Sizes from 1/2" to 6"

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Perma-Guard/ UL	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SW 400 050 N000-UL ◆ 3/4" SW 400 075 N000-UL ◆ 1" SW 400 100 N000-UL ◆ 2" SW 400 200 N000-UL ◆ 3" SW 400 300 N000-UL
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line – Smoothwall	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" SCH-40 (0538-11007-0000000) ◆ 3/4" SCH-40 (0738-11007-0000000) ◆ 1" SCH-40 (1038-11007-0000000) ◆ 1.25" SCH-40 (1238-11007-0000000) ◆ 1.50" SCH-40 (1538-11007-0000000) ◆ 2" SCH-40 (2038-11007-0000000) ◆ 3" SCH-40 (3038-11007-0000000) ◆ 4" SCH-40 (3538-11007-0000000) ◆ 5" SCH-40 (3638-11007-0000000) ◆ 6" SCH-40 (3738-11007-0000000)
J-M Manufacturing Company, Inc. 9 Peach Tree Hill Road Livingston, NJ 07039 (973) 535-1633 http://www.jmpipe.com/	HDPE ® - HDPE Duct/Inner Duct	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1 ¼" 1.25 7.5M S40 BLK ◆ 1 ½" 1.5 6M S40 BLK ◆ 2" 2 3M S40 BLK ◆ 3" 3 1M S40 BLK ◆ 4" 4 725M S40 BLK
Lamson & Sessions 25701 Science Park Drive Cleveland, OH 44122 (216) 464-3400 (800) 322-7566 http://www.carlon.com/	Carlton/UL Listed HDPE	◆ HDPE Conduit – Schedule 40 Color - Black	◆ 1/2" U2C4-UV ◆ 3/4" U3C4-UV ◆ 1" U5C4-UV ◆ 1 ¼" U6C4-UV ◆ 1 ½" U9C4-UV ◆ 2" U13C4-UV ◆ 3" U15C4-UV ◆ 4" U16C4-UV

High-Density Polyethylene Conduit (HDPE)			
Manufacturer	Brand	Type	Model
Rinker Materials P.O. Box 390 Gainsville, TX 76240 (800) 433-5632 http://www.rinker.com/	PolyPipe® HDPE Duct Pipe	♦ HDPE Conduit – Schedule 40 Color - Black	♦ PolyPipe® EHMW – PE3408 ½” to 4”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond HDPE	♦ HDPE Conduit – Schedule 40 Color - Black	♦ 1/2" BDI065BK-UL ♦ 3/4" BDI095BK-UL ♦ 1" BDI115BK-UL ♦ 1 ¼" BDI135BK-UL ♦ 1 ½" BDI165BK-UL ♦ 2" BDI215BK-UL ♦ 3" BDI315BK-UL ♦ 4" BDI414BK-UL

Precast Polymer Concrete Junction Box for Concrete Traffic Barrier			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.quazite.com	Hubbell Quazite	<ul style="list-style-type: none"> ◆ Median Barrier Box ◆ Median Barrier Box – for Concrete Barrier (F-Shape) ◆ Junction Box w/Cover OD – 9 X 11 X 7 ¼” ID – 7 ⅜ X 9 ⅜ X 6 ½”	<ul style="list-style-type: none"> ◆ PC1012B500/PC1012CA00 ◆ PC0516B500/PC0516CA00 ◆ PC0608Z503831 Cover Imprinted “Danger High Voltage – Illumination”

Item 620 – Conductors

General

The following products are pre-qualified for use on projects where Conductors are furnished or installed as required by the item descriptive code. Where splicing materials, insulating materials, GelCaps, fuse holders or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil ◆ 6 AWG & 8AWG Available in Black Only
Encore Wire 1410 Millwood Rd. McKinney, TX 75069 (800) 962-9473 http://www.encorewire.com/	Encore	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 1000 kcmil
Service Wire Company Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	◆ XHHW-2 Or ◆ XHHW	◆ Available in 14 AWG through 750 kcmil

Conductors – Type XHHW			
Manufacturer	Brand	Type	Model
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil ♦ 6 AWG & 8AWG Available in Black Only
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ XHHW-2 Or ♦ XHHW	♦ Available in 14 AWG through 1000 kcmil

Breakaway Fuse-holders			
Manufacturer	Brand	Type	Model
Cooper Bussmann, Inc. P.O. Box 14460 St. Louis, MO 63178-4460 (636) 394 2877 http://www.bussmann.com/	Bussmann	♦ Double-pole ♦ Double-pole	♦ HEX-KW-DRYC – used when no neutral is required ♦ HEN-KW-DRYC – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 sheets are in plan set.
Littlefuse Inc. 800 E. Northwest Highway Des Plaines, IL 60016-3096 (847) 824-1188 http://www.littlefuse.com	Littlefuse	♦ Double-pole ♦ Double-pole	♦ 0LEXYYSX – used when no neutral is required ♦ LEXT0YYSX – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.
Ferraz Shawmut Inc. 374 Merrimac Street Newburyport, MA 01950 (978) 462-6662 http://www.ferrazshawmut.com	Ferraz Shawmut	♦ Double-pole ♦ Double-pole	♦ FEX-91-91-BA – used when no neutral is required ♦ FEXN-91-91-BA – used when neutral is present Each fuse holder will allow 2 conductors per pole for a total of 4 conductors per unit. Each connection rated for 16 AWG up to 2 AWG. These breakaway connectors are to be used for both breakaway and non-breakaway poles where a fuse holder is called for. Installing contractor to supply 10-ampere time delay fuse. To be used when TxDOT Standards RIP-07 and RID-07 are in the plan set.

Item 621 – Tray Cable

General

The following products are pre-qualified for use on projects where Tray Cable is furnished or installed as required by the item descriptive code. No substitutions of products will be allowed when pre-qualified products are shown.

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
American Insulated Wire Co. 95 Grand Ave. Pawtucket, RI 02862-0880 (800) 366-2492 http://www.aiwc.com/	American	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 500 kcmil
Service Wire Company 310 Davis Road Culloden, W. Va. 25510 (800) 624-3572 (713) 674-6666 (800) 231-9473 http://www.servicewire.com	Service Wire	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 750 kcmil
Southwire Corporation 1 Southwire Division Carrolton, GA 30119 (800) 444-1700 (770) 832-4242 http://www.southwire.com/	Southwire	◆ Tray Cable – Power Cable – XLP XHHW-2 Insulation, PVC Jacket, Copper Conductors	◆ Available in 14 AWG through 500 kcmil

Tray Cable- XHHW Conductors with Overall PVC Jacket			
Manufacturer	Brand	Type	Model
Advanced Digital Cable Inc. 94 Eagle Fork Road Hayesville, NC 28904 (800) 343-2579 http://www.advanceddigitalcable.com	Advanced Digital	♦ Tray Cable – Power Cable – XLP XHHW Insulation, PVC Jacket, Copper Conductors	♦ Available in 12 AWG -3 and 4 conductor

Item 622 – Duct Cable

General

The following products are pre-qualified for use on projects where Duct Cable is furnished or installed as required by the item descriptive code. Where connectors are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications. No substitutions of products will be allowed when pre-qualified products are shown.

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Arnco 860 Garden Street Elyria, OH 37771 (800) 321-7914 http://www.arncocorp.com/	Arnco	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Dura-line 835 Innovation Drive Knoxville, TN 37932 (865) 218-3460 (800) 847-7661 http://www.duraline.com/	Dura-line	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”
Blue Diamond Industries, LLC 3399 Tates Creek Road Suite 110 Lexington, KY 40502 (859) 224-0415 http://www.bdiky.com/	Blue Diamond	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Duct Cable with Type XHHW Conductors			
Manufacturer	Brand	Type	Model
Draka Cableteq USA One Tamaque Blvd. Schuylkill Haven, PA 17972 (800) 233-3190 http://www.drakausa.com	Draka	♦ Duct Cable – HDPE with XHHW Conductors Installed	♦ Size of Duct and Conductors as Shown In the Plans. Specify Duct and Conductor Size and Color and Number of Conductors Needed When Ordering. Printing on Outside Wall of Duct as Per DMS 11060 Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved”

Item 624 – Ground Boxes

General

The following products are pre-qualified for use on projects where Ground Boxes are furnished or installed as required by descriptive code. Products are subject to testing. No substitutions will be allowed for Types A through E as listed below. For types not listed below, applicable TxDOT standards and specifications will apply.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Hubbell 3621 Industrial Park Drive Lenoir City, TN. 37771 (800) 346-3062 http://www.quazite.com	Hubbell Quazite	♦ A ♦ B ♦ C ♦ D ♦ E	♦ PG1324B512 / PG1324H506 ♦ 2PG1324B512 / PG1324H506 ♦ PG1730B512 / PG1730H507 ♦ PG1730B517 / PG1730H507 ♦ PG1324B514 / PG1324H506
		Type D model number changed from 522 to 517. Same box. 522 acceptable to allow for boxes already in stock, until Oct.2008. Cover For Type A, B & E	♦ PG1324H5064A (Danger High Voltage FTM) ♦ PG1324H5064B (Danger High Voltage Irrigation) ♦ PG1324H5064D(Danger High Voltage Illumination) ♦ PG1324H5064E (Danger High Voltage Traffic Signal) ♦ PG1324H5064G (Danger High Voltage Sign Lighting) ♦ PG1324H506H7 (Danger High Voltage)
		Cover For Type C & D	♦ PG1730H5074A (Danger High Voltage FTM) ♦ PG1730H5064B (Danger High Voltage Irrigation) ♦ PG1730H5074D (Danger High Voltage Illumination) ♦ PG1730H5074E (Danger High Voltage Traffic Signal) ♦ PG1730H5074G (Danger High Voltage Sign Lighting) ♦ PG1730H507H7 (Danger High Voltage)

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Armorcast Products Company 13230 Saticoy St. North Hollywood, CA. 91605 (818) 982-3600 http://www.armorcastprod.com/	Armor cast	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E Cover For All Boxes	<ul style="list-style-type: none"> ◆ A6001946TAPCX12 ◆ A6001946TAPCX24 ◆ A6001640TAPCX12 ◆ A6001640TAPCX22 ◆ A6001946TAPCX18 <ul style="list-style-type: none"> ◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
NewBasis 2626 Kansas Avenue Riverside, CA. 92507 (909) 787-0600 Toll Free (866) 392-2747 http://www.newbasis.com/	NewBasis	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ PCB132412G482 ◆ (2) PCB132412G482
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ PCB173012G482 ◆ PCB173022G482 ◆ PCB132418G482
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ PCC1324DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1324DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1324DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1324DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ PCC1730DLA528- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ PCC1730DCA528- DANGER HIGH VOLTAGE/ILLUMINATION ◆ PCC1730DMA528- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ PCC1730DSA528- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Synertech Moulded Products 2 Inverness St. Candiac, Quebec Canada J5R 4WS Toll Free (888) 868-5214 http://www.synertechproducts.com	Synertech	<ul style="list-style-type: none"> ◆ A ◆ B ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ S132412HH90 ◆ S132424HH90 ◆ S173012HH90 ◆ S173024HH90 ◆ S132418HH90
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ S1324HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNAL ◆ S1324HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1324HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1324HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ S1730HBB0A90- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ S1730HBB0A91- DANGER HIGH VOLTAGE/ILLUMINATION ◆ S1730HBB0A92- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ S1730HBB0A93- DANGER HIGH VOLTAGE/SIGN ILLUMINATION

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
Carson Industries, LLC. 1160 Nicole Court Glendora, CA. 91740 (800) 735-5566 (909) 592-6272 http://www.carsonind.com/	Carson	<ul style="list-style-type: none"> ◆ A ◆ B 	<ul style="list-style-type: none"> ◆ 13242030 ◆ 13242032
		<ul style="list-style-type: none"> ◆ C ◆ D ◆ E 	<ul style="list-style-type: none"> ◆ 17302061 ◆ 17302063 ◆ 13242031
		Cover For Type A, B & E	<ul style="list-style-type: none"> ◆ 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 13244156- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 13244158- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 13244171- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 13244170- DANGER HIGH VOLTAGE/LANDSCAPE
		Cover For Type C & D	<ul style="list-style-type: none"> ◆ 17304185- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS ◆ 17304183- DANGER HIGH VOLTAGE/ILLUMINATION ◆ 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT ◆ 17304249- DANGER HIGH VOLTAGE/SIGN ILLUMINATION ◆ 17305021- DANGER HIGH VOLTAGE/LANDSCAPE

Ground Boxes – Precast Polymer Concrete			
Manufacturer	Brand	Type	Model
CDR Systems Corporation 146 South Atlantic Ave. Ormond Beach, FL. 32176 (386) 615-9510 http://www.cdrcsystems.com/	cdr	◆ A	◆ SB14-1324-12-0287
		◆ B	◆ SB14-1324-12-0287 -2 boxes stacked
		◆ C	◆ SB14-1730-12-0494
		◆ D	◆ SC14-1730-22-0499
		◆ E	◆ SB14-1324-18-0288
		Cover For Type A, B & E	◆ SC12-1324-02
		Cover For Type C & D	◆ SC12-1730-02
		Cover For All Boxes	◆ All Covers Read “Danger High Voltage.” Additional Logos Added Per Job Spec.

Item 628 – Electrical Service

General

The following products have been tested and are pre-qualified for use on projects where Electrical Services are furnished or installed. Where miscellaneous parts, brackets, hardware, nuts, bolts, washers, or other incidentals are necessary and are not shown as pre-qualified products, the contractor shall furnish products that meet the requirements of the plans and specifications.

Electrical Service			
Manufacturer	Brand	Type	Model
Electrol Systems 10623 Sentinel Drive San Antonio, TX 78217 (210) 599-6485 (888) 853-8944 http://www.electrolsystems.com/	Electrol	<ul style="list-style-type: none"> ◆ A ◆ C ◆ C- Auxiliary Only ◆ D ◆ T- Auxiliary Only ◆ T-All in One ◆ A-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ ELECTROL TYPE A-TXDOT ◆ ELECTROL TYPE C-TXDOT ◆ ELECTROL TYPE C- Auxiliary Only – TXDOT ◆ ELECTROL TYPE D-TXDOT ◆ ELECTROL TYPE T- Auxiliary Only - TXDOT ◆ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT ◆ ELECTROL TYPE A-PEDESTAL-TXDOT ◆ ELECTROL TYPE D-PEDESTAL-TXDOT
S&J Electric PO Box 121516 Ft Worth, TX 76121 (817) 560-0000 http://www.sj-electric.com/index.html	Stanfield Enterprises Inc.	<ul style="list-style-type: none"> ◆ A ◆ A-Pedestal ◆ C ◆ C- Auxiliary Only ◆ D ◆ D-Pedestal ◆ T- Auxiliary Only ◆ T-All in One 	<ul style="list-style-type: none"> ◆ STANFIELD ENTERPRISE INC. TYPE A-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE A-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE C- Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE D-PEDESTAL-TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T Auxiliary Only –TXDOT ◆ STANFIELD ENTERPRISE INC. TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
WE Manufacturing 5535 Harvey Wilson Drive Houston , TX 77020 (713) 676-2298 (800) 880-9453 http://www.wemanufacturing.com/	WE	♦ A ♦ C ♦ C- Auxiliary Only ♦ D ♦ T- Auxiliary Only ♦ T-All in One ♦ A - Pedestal	♦ WE TYPE A-TXDOT ♦ WE TYPE C-TXDOT ♦ WE TYPE C- Auxiliary Only –TXDOT ♦ WE TYPE D-TXDOT ♦ WE TYPE T- Auxiliary Only –TXDOT ♦ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT ♦ WE TYPE A- PEDESTAL - TXDOT
Mica Corporation P.O. Box 161609 Fort Worth , TX 77020 (817) 847-6121 (817) 577-2088	Mica	♦ A ♦ C ♦ D ♦ T- Auxiliary Only ♦ T-All in One	♦ MICA TYPE A-TXDOT ♦ MICA TYPE C-TXDOT ♦ MICA TYPE D-TXDOT ♦ MICA TYPE T- Auxiliary Only –TXDOT ♦ MICA TYPE T- ALL IN ONE ENCLOSURE –TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Specialty Control Systems 629 SH 3 League City , TX 77573 (281) 332-0999 http://www.specialtycontrol.com/	SCS	<ul style="list-style-type: none"> ◆ A ◆ D ◆ T-All in One ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ SCS TYPE A-TXDOT ◆ SCS TYPE D-TXDOT ◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT ◆ SCS TYPE D-PEDESTAL-TXDOT
Tesco Controls, Inc. 3434 52 nd Ave. Sacramento , CA 95823 (916) 395-8800 http://www.tescocontrols.com/home.htm	Tesco	<ul style="list-style-type: none"> ◆ A-Pedestal ◆ A-Pedestal ◆ C-Pedestal ◆ D-Pedestal 	<ul style="list-style-type: none"> ◆ TESCO TYPE A-PEDESTAL-TXDOT (120/240) ◆ TESCO TYPE A-1-PEDESTAL-TXDOT (240/480) ◆ TESCO TYPE C-PEDESTAL-TXDOT ◆ TESCO TYPE D-PEDESTAL-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Love Electric, Inc. 3128 Spur 124. Tyler , TX 75707 (903) 592-7561	Love	♦ A-Pedestal ♦ A-Pedestal ♦ A	♦ LEI TYPE A-PEDESTAL-TXDOT (120/240) ♦ LEI TYPE A-PEDESTAL-TXDOT (240/480) ♦ LEI TYPE A-TXDOT
Myers Power Products, Inc. 725 E. Harrison St. Corona , CA 92879 (951) 520-1900 (866) 696-9377 http://www.myerspowerproducts.com	Myers	♦ A-Pedestal ♦ D-Pedestal ♦ D ♦ T	♦ MEUG16 TYPE A-PEDESTAL-TXDOT ♦ MEUG16 TYPE D-PEDESTAL-TXDOT ♦ MYERS TYPE D-TXDOT ♦ MYERS TYPE T-TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Tri-State Electric, Ltd. 4604 Titanic Ave. El Paso , TX 79904 (915) 755-8803	Tri-State	◆ A	◆ TS1000 TYPE A-TXDOT
Associated Starters & Controls 310 Breesport, Ste. D San Antonio , TX 78216 (210) 798-1334 (888) 798-1334	ASC	◆ A ◆ C ◆ D ◆ T ◆ T-Auxiliary ◆ A - Pedestal ◆ D - Pedestal	◆ ASC TYPE A-TXDOT ◆ ASC TYPE C-TXDOT ◆ ASC TYPE D-TXDOT ◆ ASC TYPE T-TXDOT ◆ ASC TYPE T-AUX-TXDOT ◆ ASC TYPE A-PEDESTAL - TXDOT ◆ ASC TYPE D-PEDESTAL - TXDOT

Electrical Service			
Manufacturer	Brand	Type	Model
Milbank Manufacturing Co. 4801 Deramus Kansas City , MO 64120 (816) 483-5314 (Main Switch Board) (660) 463-0800 (Commercial Pedestal) http://milbankmfg.com	Milbank	♦ A - Pedestal ♦ A - Pedestal ♦ D - Pedestal	♦ MB TYPE A-PEDESTAL –TXDOT (120/240) ♦ MB TYPE A-PEDESTAL –TXDOT (240/480) ♦ MB TYPE D-PEDESTAL –TXDOT (120/240)

Photoelectric Control - Photocell			
Manufacturer	Brand	Type	Model
<p>Tork</p> <p>1 Grove Street Mt. Vernon, NY 10550 (914) 664-5042</p> <p>http://www.tork.com/</p>	Tork	◆ 120-277 Volt Photocell	<p>◆ S895 or</p> <p>◆ NSI-TORK S895 *</p> <p>* Tork has recently been bought out by NSI</p>
<p>American Electric Lighting / DTL</p> <p>P.O. Box 3004 Newark, OH 43800 (800) 754-0463</p> <p>http://www.darktolight.com</p>	DTL	◆ 120-277 Volt Photocell	◆ DUX124 -12A30
<p>Tyco Electronics</p> <p>8000 Purfoy Rd. Fuquay-Varina, NC 27526 (919)557-8459</p> <p>http://www.tycoelectronics.com/</p>	Tyco	◆ 120-277 Volt Photocell	◆ ALR-SST-PV-IES-UL (3E7425-000)