

**Roadway Illumination and Electrical Supplies  
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Materials Pre-qualified for Illumination and Electrical items 610-687  
No additional submittals are required for products that are pre-qualified

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**Notice:**

All submittal and corresponding documentation becomes public information.  
All manufacturers’ products that are listed within this document are pre-qualified.  
Manufacturer name change does not change the pre-qualified status of the original material. 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**

Roadway Illumination Poles do not need to be pre-qualified when TxDOT RIP (Roadway Illumination Pole) 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 (Roadway Illumination Pole). Poles fabricated according to RIP standard sheets require no shop drawings.

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

For instructions on the requirements and procedures of shop drawings go to:

<http://www.txdot.gov/business/resources/specifications/shop-drawings.html>

Click on “Requirements and Procedures for Optional and Non-Standard Illumination Pole Designs and Shop Drawings.”

### **Limitations on Use of the RIP-11 Standard**

The Roadway Illumination Pole (RIP-11) standard details were developed for installations in locations where the 3-second gust basic maximum wind speed is 110 mph, and where the elevation of the base of the pole is less than (i.e. not more than) 25' above the elevation of surrounding terrain, in accordance with the "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals," 4<sup>th</sup> Edition (2001) (AASHTO Design Specifications). For poles to be installed in regions where the maximum basic wind speed exceeds 110 mph or to be mounted more than 25' above the surrounding terrain, the contractor shall provide poles meeting the following requirements:

- A. **Submittals.** Following the electronic shop drawing submittal process (see [ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e\\_submit\\_guide.pdf](ftp://ftp.dot.state.tx.us/pub/txdot-info/library/pubs/bus/bridge/e_submit_guide.pdf)), the contractor shall submit to the Engineer, for approval, fabrication drawings and calculations for the poles. The drawings and calculations shall be sealed by a Texas registered or licensed professional engineer (P.E.).
  
- B. **Luminaire Structural Support Requirements.** Lighting poles, arms, and anchor bolt assemblies shall have a 25-year design life to safely resist dead loads, ice loads and the required basic wind speeds at the location of installation in accordance with the current edition of the AASHTO Design Specifications. For transformer base poles, the fabricator shall include transformer base and connecting hardware in calculations and shop drawing submittals. All transformer bases shall have been structurally tested to resist the theoretical plastic moment capacity of the pole. Certification of the plastic moment load test and FHWA breakaway requirement test of the model of base being furnished shall be submitted with the shop drawings. Shop drawings shall show breakaway base model number, and manufacturer's name and logo. Manufacturer's shop drawings shall include the ASTM designations for all materials to be used.

## 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.

| <b>Roadway Illumination Assemblies – Underpass Fixture</b>   |              |  |   |
|--|--------------|--|---|
| <b>Manufacturer</b>  | <b>Brand</b> | <b>Type</b>  | <b>Model</b>  |
| Energy Plus Lighting<br><br>1465 FM 2673<br>Canyon Lake, TX 78133<br>(830) 964-2357<br><br><a href="http://www.energypluslight.com">http://www.energypluslight.com</a> | UDP SERIES   | <ul style="list-style-type: none"> <li>◆ Induction Fluorescent Underpass Fixture</li> </ul>  | <ul style="list-style-type: none"> <li>◆ UDP-165-QL-GR</li> </ul>   |
| Kenall Lighting<br><br>1020 Lakeside Dr.<br>Gurnee, IL 60031<br>(800) 453-6255<br><br><a href="http://www.kenall.com">http://www.kenall.com</a>                        | KENALL       | <ul style="list-style-type: none"> <li>◆ Induction Fluorescent Underpass Fixture – Steel Housing</li> <li>◆ Induction Fluorescent Underpass Fixture – Aluminum Housing</li> <li>◆ Box Beam Bracket to Mount Fixture</li> <li>◆ Bridge Deck Bracket to Mount Fixture</li> <li>◆ U-Beam Bracket</li> </ul> | <ul style="list-style-type: none"> <li>◆ TS2020-3/3-1-150IND-277V-R-SSPH-TEXAS</li> <li>◆ TS2020-*/*-150IND-*Volt-8-SSPH-TDOT-ALUMINUM</li> <li>◆ Ask for BB Bracket When Required – Sold Separately</li> <li>◆ Ask for BD Bracket When Required – Sold Separately</li> <li>◆ Ask for UB Bracket When Required – Sold Separately</li> </ul> |
| ESCO Lighting<br><br>3254 N. Kilborn Ave.<br>Chicago, IL 60641<br>(773) 427-7000<br><br><a href="http://www.escolighting.com">http://www.escolighting.com</a>          | ESCO         | <ul style="list-style-type: none"> <li>◆ Induction Fluorescent Underpass Fixture</li> </ul>  | <ul style="list-style-type: none"> <li>◆ SP2343</li> </ul>  |

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

| Roadway Illumination Assemblies – Luminaire   |             |  |   |
|---|-------------|--|---|
| Manufacturer  | Brand       | Type   | Model   |
| Cooper<br><br>1121 Highway 74 South<br>Peachtree City, GA 30269<br>(770) 486-4800<br><br><a href="http://www.cooperlighting.com">http://www.cooperlighting.com</a>                          | Streetworks | <ul style="list-style-type: none"> <li>◆ 150W HPS- 240/480 Volt</li> <li>◆ 250W HPS- 120/240 Volt</li> <li>◆ 250W HPS- 240/480 Volt</li> <li>◆ 400W HPS- 120/240 Volt</li> <li>◆ 400W HPS- 240/480 Volt</li> </ul>         | <ul style="list-style-type: none"> <li>◆ OVW15SMJ3DD0004</li> <li>◆ OVW25SMG2DD0001</li> <li>◆ OVW25SMJ2DD0002</li> <li>◆ OVW40SMG2DD0005</li> <li>◆ OVW40SMJ2DD0003</li> </ul>   |
| G.E. Lighting Systems, Inc.<br><br>3010 Spartanburg Highway<br>Henderson, NC 28793<br>(800) 305-1372<br><br><a href="http://www.gelightingssystem.com">http://www.gelightingssystem.com</a> | M4RC        | <ul style="list-style-type: none"> <li>◆ 150W HPS- 240/480 Volt</li> <li>◆ 250W HPS- 120/240 Volt</li> <li>◆ 250W HPS- 240/480 Volt</li> <li>◆ 400W HPS- 120/240 Volt</li> <li>◆ 400W HPS- 240/480 Volt</li> </ul>         | <ul style="list-style-type: none"> <li>◆ M4RC15S9M4GMC3312 or GE Manufacture #180055</li> <li>◆ M4RC25S7M4GSC2311 or GE Manufacture #168025</li> <li>◆ M4RC25S9M4GSC2311 or GE Manufacture #168023</li> <li>◆ M4RC40S7M4GSC3311 or GE Manufacture #157785</li> <li>◆ M4RC40S9M4GSC3311 or GE Manufacture #158165</li> </ul> |
| Holophane<br><br>3825 Columbus Road SW<br>Granville, OH 43023<br>(740) 587-4030<br>FAX (866) 761-9819<br><br><a href="http://www.holophane.com">http://www.holophane.com</a>                | Mongoose    | <ul style="list-style-type: none"> <li>◆ 250W HPS- 120 Volt</li> <li>◆ 250W HPS- 240 Volt</li> <li>◆ 250W HPS- 480 Volt</li> <li>◆ 400W HPS- 120Volt</li> <li>◆ 400W HPS- 240Volt</li> <li>◆ 400W HPS- 480 Volt</li> </ul> | <ul style="list-style-type: none"> <li>◆ G25RHP12LNRHGBR-TXDOT</li> <li>◆ G25RHP24LNRHGBR-TXDOT</li> <li>◆ G25RHP48LNRHGBR-TXDOT</li> <li>◆ G40RHP12LNRHGBR-TXDOT</li> <li>◆ G40RHP24LNRHGBR-TXDOT</li> <li>◆ G40RHP48LNRHGBR-TXDOT</li> </ul>  |

| Roadway Illumination Assemblies – LED Luminaire   |           |  |  |
|---|-----------|--|--|
| Manufacturer  | Brand     | Type   | Model  |
| TraStar<br>860 N. Dorothy Drive #600<br>Richardson, TX 75081<br>(972) 480-0888<br><a href="http://www.trastarusa.com">http://www.trastarusa.com</a> | Duralight | <ul style="list-style-type: none"> <li>◆ 150W EQ LED- 120/240 Volt; LLF=0.86</li> <li>◆ 150W EQ LED- 480 Volt; LLF=0.86</li> <li>◆ 250W EQ LED- 120/240 Volt; LLF=0.86</li> <li>◆ 250W EQ LED- 480 Volt; LLF=0.86</li> <li>◆ 400W EQ LED- 120/240 Volt; LLF=0.86</li> <li>◆ 400W EQ LED- 480 Volt; LLF=0.86</li> </ul> | <ul style="list-style-type: none"> <li>◆ JXM-ST140-3-40K-120-3-GR-SCLB</li> <li>◆ JXM-ST140-3-40K-480-3-GR-SCLB</li> <li>◆ JXM-ST180-3-40K-120-2-GR-SCLB</li> <li>◆ JXM-ST180-3-40K-480-2-GR-SCLB</li> <li>◆ JXM-ST180-4-40K-120-2-GR-SCLB</li> <li>◆ JXM-ST180-4-40K-480-2-GR-SCLB</li> </ul> |
|   |           |  |  |
|   |           |  |  |

| <b>High Pressure Sodium Lamps</b>   |   |   |   |
|---|---|---|---|
| <b>Manufacturer</b>   | <b>Brand</b>                                      | <b>Type</b>   | <b>Model</b>  |
| Osram Sylvania<br><br>100 Endicott Street<br>Danvers, MA 24210<br>(978) 777-1900<br>For Lamps<br>(800) 544-4828<br><br><a href="http://www.sylvania.com/">http://www.sylvania.com/</a>                | Sylvania - Lumalux<br>Plus®/ECO                   | <ul style="list-style-type: none"> <li>◆ 400 Watt Lamp</li> <li>◆ 250 Watt Lamp</li> <li>◆ 150 Watt Lamp</li> </ul> | <ul style="list-style-type: none"> <li>◆ 67312 - LU400/PLUS/ECO</li> <li>◆ 67572 - LU250/PLUS/ECO</li> <li>◆ 67494 -LU150/55/PLUS/<br/>ECO</li> </ul>                           |
| Philips Lighting Company<br><br>200 Franklin Square Dr.<br>P.O. Box 6800<br>Somerset, NJ 08875<br>(800) 555-0050<br><br><a href="http://www.lighting.philips.com">http://www.lighting.philips.com</a> | Philips -<br>Ceramalux®/ALTO®<br>Non-Cycling Lamp | <ul style="list-style-type: none"> <li>◆ 400 Watt Lamp</li> <li>◆ 250 Watt Lamp</li> <li>◆ 150 Watt Lamp</li> </ul> | <ul style="list-style-type: none"> <li>◆ 14743-9 – C400S51/ALTO<br/>NC HPS</li> <li>◆ 14742-1 – C250S50/ALTO<br/>NC HPS</li> <li>◆ 14741-3 – C150S55/ALTO<br/>NC HPS</li> </ul> |
| GE Lighting<br><br>Nela Park, 1975 Noble Rd.<br>Cleveland, OH 44112<br>(216) 266-2121<br><br><a href="http://www.gelighting.com">http://www.gelighting.com</a>  | GE – EcoluxNC™                                    | <ul style="list-style-type: none"> <li>◆ 400 Watt Lamp</li> <li>◆ 250 Watt Lamp</li> <li>◆ 150 Watt Lamp</li> </ul> | <ul style="list-style-type: none"> <li>◆ 14675 – LU400/ECO/NC</li> <li>◆ 14674 – LU250/ECO/NC</li> <li>◆ 40390 – LU150/55/ECO/<br/>NC</li> </ul>                                |

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

| <b>Breakaway Fuse-holders</b>   |                |  |   |
|---|----------------|--|---|
| <b>Manufacturer</b>   | <b>Brand</b>   | <b>Type</b>  | <b>Model</b>  |
| Cooper Bussmann, Inc.<br><br>P.O. Box 14460<br>St. Louis, MO 63178-4460<br>(636) 394-2877<br><br><a href="http://www.bussmann.com/">http://www.bussmann.com/</a>  | Bussmann       | <ul style="list-style-type: none"> <li>◆ Double-pole</li> <br/> <li>◆ Double-pole</li> </ul> | <ul style="list-style-type: none"> <li>◆ HEX-KW-DRYC – used when no neutral is required</li> <br/> <li>◆ HEN-KW-DRYC – used when neutral is present</li> </ul> <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. <b>To be used when TxDOT Standards RIP and RID are in the plan set.</b></p>    |
| Littelfuse Inc.<br><br>800 E. Northwest Highway<br>Des Plaines, IL 60016-3096<br>(847) 824-1188<br><br><a href="http://www.littelfuse.com">http://www.littelfuse.com</a>  | Littelfuse     | <ul style="list-style-type: none"> <li>◆ Double-pole</li> <br/> <li>◆ Double-pole</li> </ul> | <ul style="list-style-type: none"> <li>◆ 0LEXYYSX – used when no neutral is required</li> <br/> <li>◆ LEXT0YYSX – used when neutral is present</li> </ul> <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. <b>To be used when TxDOT Standards RIP and RID are in the plan set.</b></p>         |
| Mersen USA<br><br>374 Merrimac Street<br>Newburyport, MA 01950<br>(978) 462-6662<br><br><a href="http://www.ferrazshawmut.com">http://www.ferrazshawmut.com</a><br><br>Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut. | Ferraz Shawmut | <ul style="list-style-type: none"> <li>◆ Double-pole</li> <br/> <li>◆ Double-pole</li> </ul> | <ul style="list-style-type: none"> <li>◆ FEX-91-91-BA – used when no neutral is required</li> <br/> <li>◆ FEXN-91-91-BA – used when neutral is present</li> </ul> <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. <b>To be used when TxDOT Standards RIP and RID are in the plan set.</b></p> |

| <b>Breakaway Fuse-holders</b>   |                       |  |  |
|---|-----------------------|--|--|
| <b>Manufacturer</b>   | <b>Brand</b>          | <b>Type</b>  | <b>Model</b>   |
| Ideal Industries, Inc.<br><br>1 Becker Place<br>Sycamore, IL 60178<br>(800) 435-0705<br><br><a href="http://www.idealindustries.com/">http://www.idealindustries.com/</a> | Ideal-Buchanan<br>SLK | <ul style="list-style-type: none"> <li>◆ Double-pole</li> <br/> <li>◆ Double-pole</li> </ul> | <ul style="list-style-type: none"> <li>◆ 30-S2222D – used when no neutral is required</li> <br/> <li>◆ 30-S2222P – used when neutral is present</li> </ul> <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. <b>To be used when TxDOT Standards RIP and RID are in the plan set.</b></p> |
|   |                       |  |  |
|   |                       |  |  |

| <b>Optional and Non-Standard Illumination Pole Designs and Shop Drawings</b>  |              |   |   |
|---|--------------|---|---|
| <b>Manufacturer</b>   | <b>Brand</b> | <b>Type</b>   | <b>Model</b>                              |
| Hapco<br><br>26252 Hillman Highway<br>Abingdon, VA 24210<br>(800) 368-7171<br><br><a href="http://www.hapco.com/">http://www.hapco.com/</a> | Hapco        | ♦ 40 Ft.-Aluminum - T-Base<br>mounted with (1) 8Ft. Arm<br>Only | ♦ Based on Drawing #<br>B15138 and B15136 |
|   |              |   |   |
|   |              |   |   |

| <b>Breakaway Transformer Base</b>  |              |  |  |
|--|--------------|--|--|
| <b>Manufacturer</b>  | <b>Brand</b> | <b>Type</b>  | <b>Model</b>   |
| Akron Foundry Co.<br><br>2728 Wingate Ave.<br>Akron, OH 44314<br>(330) 745-3101<br><br><a href="http://www.akronfoundry.com">http://www.akronfoundry.com</a> | Akron        | <ul style="list-style-type: none"> <li>◆ Breakaway Transformer Base for Luminaire Poles Less Than 40 Foot Height</li> <li>◆ Breakaway Transformer Base for Luminaire Poles 40 to 50 Foot Height</li> </ul> | <ul style="list-style-type: none"> <li>◆ TB1-17</li> <li>◆ TB3-17</li> </ul> |
|  |              |  |  |
|  |              |  |  |

## 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) **Standard Design.** Fabricate poles in accordance with this Item and the plans. Alternate designs are not permitted.
- (b) **Shop Drawings.** Do not submit shop drawings for high mast illumination poles fabricated in accordance with this Item and the plans.

## 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.

| <b>Luminaire – High Mast</b>  |   |  |   |
|---|---|--|---|
| <b>Manufacturer</b>   | <b>Brand</b>  | <b>Type</b>  | <b>Model</b>  |
| Holophane<br><br>3825 Columbus Road SW<br>Granville, OH 43023<br>(740) 587-6167<br>FAX (888) 300-5321<br><br><a href="http://www.holophane.com">http://www.holophane.com</a>                | High Mast Cutoff-HMSC<br><br>High Mast Cutoff-HMSC<br><br>High Mast Dark Skies-HMSD | ◆ High Mast – Type A<br><br>◆ High Mast – Type B<br><br>◆ High Mast – Type S                             | ◆ HMSC40RHP48B9-TXDOT 12 TYPE A<br>◆ HMSC40RHP48B9-TXDOT 12 TYPE B<br>◆ HMAO40RHP48S-TXDOT 12 TYPE S<br><br>*Note model number for A & B changed from B7 to B9. No other changes noted. |
| G.E. Lighting Systems, Inc.<br><br>3010 Spartanburg Highway<br>Henderson, NC 28793<br>(800) 305-1372<br><br><a href="http://www.gelightingsystems.com">http://www.gelightingsystems.com</a> | G.E.  | ◆ High Mast – Type A<br><br>◆ High Mast – Type B<br><br>◆ High Mast – Type C<br><br>◆ High Mast – Type S | ◆ 159189<br><br>◆ 159190<br><br>◆ 159191<br><br>◆ 159193  |
| Cooper<br><br>1121 Highway 74 South<br>Peachtree City, GA 30269<br>(770) 486-4800<br><br><a href="http://www.cooperlighting.com">http://www.cooperlighting.com</a>                          | Streetworks   | ◆ High Mast – Type A<br><br>◆ High Mast – Type B<br><br>◆ High Mast – Type C<br><br>◆ High Mast – Type S | ◆ GMA40SM83DD0018<br><br>◆ GMA40SM83DD0019<br><br>◆ GMA40SM83DD0020<br><br>◆ GMA40SM8ARD0017  |

| <b>High Pressure Sodium Lamps</b>   |   |                 |                                 |
|---|---|-----------------|---------------------------------|
| <b>Manufacturer</b>   | <b>Brand</b>                                | <b>Type</b>     | <b>Model</b>                    |
| Osram Sylvania<br><br>100 Endicott Street<br>Danvers, MA 24210<br>(978) 777-1900<br>For Lamps<br>(800) 544-4828<br><br><a href="http://www.sylvania.com/">http://www.sylvania.com/</a>                | Sylvania - Lumalux Plus®/ECO                | ◆ 400 Watt Lamp | ◆ 67312 - LU400/PLUS/ECO        |
| Philips Lighting Company<br><br>200 Franklin Square Dr.<br>P.O. Box 6800<br>Somerset, NJ 08875<br>(800) 555-0050<br><br><a href="http://www.lighting.philips.com">http://www.lighting.philips.com</a> | Philips - Ceramalux®/ALTO® Non-Cycling Lamp | ◆ 400 Watt Lamp | ◆ 14743-9 – C400S51/ALTO NC HPS |
| GE Lighting<br><br>Nela Park, 1975 Noble Rd.<br>Cleveland, OH 44112<br>(216) 266-2121<br><br><a href="http://www.gelighting.com">http://www.gelighting.com</a>  | GE – EcoluxNG™                              | ◆ 400 Watt Lamp | ◆ 14675 – LU400/ECO/NC          |

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

| <b>High Mast Kit</b>   |                  |  |   |
|--|------------------|--|---|
| <b>Manufacturer</b>  |                  | <b>Type</b>  |   |
| Wildcat Electric Supply, Ltd.<br><br>2061 Clovis Barker Road #5.<br>San Marcos, TX 77666<br>(512) 396-8900<br>(866) 301-5200<br><br><a href="http://www.wildcatelectric.com">http://www.wildcatelectric.com</a>            | Wildcat          | ♦ High Mast – 125 Foot<br><br>♦ High Mast – 150 Foot<br><br>♦ High Mast – 175 Foot                               | ♦ HMK-125-WC<br><br>♦ HMK-150-WC<br><br>♦ HMK -175-WC                             |
| Stratus Products<br>Division of<br>Structural & Steel Products, Inc<br><br>1320 South University<br>Suite 701<br>Fort Worth, TX 76107<br>(800) 782-5804<br><br><a href="http://stratusprod.com">http://stratusprod.com</a> | Stratus Products | ♦ High Mast – 100 Foot<br><br>♦ High Mast – 125 Foot<br><br>♦ High Mast – 150 Foot<br><br>♦ High Mast – 175 Foot | ♦ HMK-100-SSPI<br><br>♦ HMK-125-SSPI<br><br>♦ HMK-150-SSPI<br><br>♦ HMK -175-SSPI |
| Millerbernd Manufacturing Company<br><br>622 6 <sup>th</sup> Street South<br>Winsted, MN 55395<br>(320) 485-2111<br>FAX (320) 485-2220<br><br><a href="http://www.millerberndmfg.com">http://www.millerberndmfg.com</a>    | Millerbernd      | ♦ High Mast – 100 Foot<br><br>♦ High Mast – 125 Foot<br><br>♦ High Mast – 150 Foot<br><br>♦ High Mast – 175 Foot | ♦ MMC100KIT<br><br>♦ MMC125KIT<br><br>♦ MMC150KIT<br><br>♦ MMC175KIT              |

## High Mast Ring- Previously Approved Shop Drawings

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

| <b>High Mast Ring- Previously Approved Shop Drawings</b>  |  |   |  |
|---|--|---|--|
| <b>Manufacturer</b>   |  | <b>Type</b>   |  |
| Brookfield Fabricating Corp.<br><br>Stanbury Industrial Dr.<br>Brookfield, MO 64628<br>(660) 258-2214   |  | ♦ High Mast Ring<br><br>Drawings Dated 4-8-96<br>Sheets 1 through 4 –<br>Good Until 9-30-2011<br><br>Drawings Approved<br>8-29-2011<br>Sheet 1 Dated 7-1-08<br>Sheet 2 Dated 8-5-11<br>Sheet 3 Dated 7-1-08<br>Sheet 4 Dated 7-1-08 |  |
| PKM Steel Service<br><br>228 E. Avenue A<br>P.O. Box 1066<br>Salina, KS 67402-1066<br>(785) 827-3638<br><br><a href="http://www.pkmsteel.com/">http://www.pkmsteel.com/</a> |  | ♦ High Mast Ring<br><br>Sheet E1 Dated 8-2-05<br>Sheet 1 Dated 10-12-05<br>Sheet 2 Dated 10-12-05<br>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.

| <b>Rigid Metallic Conduit – (RMC)</b>   |              |  |                               |
|---|--------------|--|-------------------------------|
| <b>Manufacturer</b>   | <b>Brand</b> | <b>Type</b>                            | <b>Model</b>                  |
| Allied Tube & Conduit<br><br>16100 S. Lathrop Avenue<br>Harvey, IL 60426-6021<br>(800) 882-5543<br><br><a href="http://www.alliedeg.us/">http://www.alliedeg.us/</a>                        | Allied       | ◆ Galvanized Rigid Metal Conduit (RMC) | ◆ Trade Sizes from 1/2" to 6" |
| Wheatland<br><br>900 Haddon Avenue<br>P.O. Box 600<br>Collingswood, NJ 08108-0600<br>(800) 257-8182<br><br><a href="http://www.wheatland.com/">http://www.wheatland.com/</a>                | Wheatland    | ◆ Galvanized Rigid Metal Conduit (RMC) | ◆ Trade Sizes from 1/2" to 6" |
| Republic Conduit<br><br>7301 Logistics Drive<br>Louisville, KY 40258<br>(800) 840-8823<br>(502) 995-5900<br><br><a href="http://www.republicconduit.com">http://www.republicconduit.com</a> | Republic     | ◆ Galvanized Rigid Metal Conduit (RMC) | ◆ Trade Sizes from 1/2" to 6" |

**Rigid Metallic Conduit – (RMC)**

| Manufacturer  | Brand              | Type   | Model                         |
|---|--------------------|--|-------------------------------|
| Western Tube & Conduit Corp.<br><br>2001 E. Dominguez St.<br>Long Beach, CA 90801-2720<br>(310) 537-6300<br>(800) 310-8823<br><br><a href="http://www.westerntube.com">http://www.westerntube.com</a> | Western<br>Conduit | ♦ Galvanized Rigid<br>Metal Conduit<br>(RMC) | ♦ Trade Sizes from 1/2" to 6" |
|   |                    |  |                               |
|   |                    |  |                               |

## PolyVinyl Chloride Pipe- (PVC)

| Manufacturer  | Brand                 | Type  | Model   |
|---|-----------------------|-------|---|
| Cantex<br><br>P.O. Box 340<br>Mineral Wells, TX 76068<br>(940) 325-3344<br>(800) 433-5623<br><br><a href="http://www.cantexinc.com/">http://www.cantexinc.com/</a>                      | Cantex                | ◆ PVC | ◆ Schedule 40 and 80<br>◆ Trade Sizes from 1/2" to 6" |
| Allied Tube & Conduit<br><br>16100 S. Lathrop Avenue<br>Harvey, IL 60426-6021<br><br><a href="http://www.alliedeg.us/">http://www.alliedeg.us/</a>                                      | Allied Tube & Conduit | ◆ PVC | ◆ Schedule 40 and 80<br>◆ Trade Sizes from 1/2" to 6" |
| Prime Conduit Inc.<br><br>23240 Chagrin Blvd. Suite 405<br>Cleveland, OH 44122<br>(216) 464-3400<br>(800) 321-1970<br><br><a href="http://primeconduit.com">http://primeconduit.com</a> | Prime Conduit         | ◆ PVC | ◆ Schedule 40 and 80<br>◆ Trade Sizes from 1/2" to 6" |
| National Pipe & Plastics, Inc.<br><br>3421 Old Vestal Road<br>Vestal, NY 13850<br>(800) 836-4350<br><br><a href="http://www.nationalpipe.com/">http://www.nationalpipe.com/</a>         | NPPI PVC              | ◆ PVC | ◆ Schedule 40 and 80<br>◆ Trade Sizes from 1/2" to 6" |

## PolyVinyl Chloride Pipe- (PVC)

| Manufacturer   | Brand                    | Type  | Model  |
|--|--------------------------|-------|--|
| Heritage Plastics Central, Inc.<br><br>1202 N. Bowie Drive<br>Weatherford, TX 76086<br>(817) 594-8791<br><br><a href="http://www.heritageplastics.com/">http://www.heritageplastics.com/</a> | Heritage                 | ◆ PVC | ◆ Schedule 40 and 80<br>◆ Trade Sizes from 1/2" to 6"  |
| Rocky Mountain Colby Pipe Co.<br><br>5125-B Race Ct.<br>Denver, CO 80216<br>(800) 681-8682<br><br><a href="http://www.rmcp.com">http://www.rmcp.com</a>                                      | Rocky Mountain Colby     | ◆ PVC | ◆ Schedule 40 and 80<br>◆ Schedule 40 - Trade Sizes from 1/2" to 6"<br>◆ Schedule 80 - Trade Sizes from 1 1/4" to 6"   |
| OMNI<br><br>259 Plauche Street<br>Harahan, LA 70123<br>(504) 736-0331<br><br><a href="http://www.omni-opti.com">http://www.omni-opti.com</a>   | OMNI                     | ◆ PVC | ◆ Schedule 40 - Trade Sizes from 1/2" to 6"<br>◆ Schedule 80 - Trade Sizes from 2" to 6"   |
| American Pipe & Plastics, Inc.<br><br>P.O. Box 577<br>Binghamton, NY 13902<br>(607) 775-4340<br><br><a href="http://www.ampipe.com">http://www.ampipe.com</a>                                | American Pipe & Plastics | ◆ PVC | ◆ Schedule 40 – Trade Sizes from 1 1/4" to 6" in 10' lengths – All model #'s start with UL<br>◆ Schedule 40 – Trade Sizes from 1 1/4" to 6" in 20' lengths – All model #'s start with UL |

| PolyVinyl Chloride Pipe- (PVC)  |                    |                    |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
|---|--------------------|--------------------|--|--|--------------------|--------------------|------|------------|------------|------|-------------|-------------|------|----------|----------|--------|-------------|-------------|--------|-------------|-------------|------|----------|----------|--------|------------|------------|------|----------|----------|--------|------------|------------|------|----------|----------|------|----------|----------|------|----------|----------|
| Manufacturer  | Brand              | Type               | Model  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
| JM Eagle<br><br>5200 West Century Boulevard<br>Los Angeles, CA 90045<br>(800) 621-4404<br><br><a href="http://www.jmeagle.com">http://www.jmeagle.com</a> | JM Eagle           | ◆ PVC              | <table border="0"> <tr> <td></td> <td><u>Schedule 40</u></td> <td><u>Schedule 80</u></td> </tr> <tr> <td>◆ ½"</td> <td>0.5 S40 UL</td> <td>0.5 S80 UL</td> </tr> <tr> <td>◆ ¾"</td> <td>0.75 S40 UL</td> <td>0.75 S80 UL</td> </tr> <tr> <td>◆ 1"</td> <td>1 S40 UL</td> <td>1 S80 UL</td> </tr> <tr> <td>◆ 1 ¼"</td> <td>1.25 S40 UL</td> <td>1.25 S80 UL</td> </tr> <tr> <td>◆ 1 ½"</td> <td>1.50 S40 UL</td> <td>1.50 S80 UL</td> </tr> <tr> <td>◆ 2"</td> <td>2 S40 UL</td> <td>2 S80 UL</td> </tr> <tr> <td>◆ 2 ½"</td> <td>2.5 S40 UL</td> <td>2.5 S80 UL</td> </tr> <tr> <td>◆ 3"</td> <td>3 S40 UL</td> <td>3 S80 UL</td> </tr> <tr> <td>◆ 3 ½"</td> <td>3.5 S40 UL</td> <td>3.5 S80 UL</td> </tr> <tr> <td>◆ 4"</td> <td>4 S40 UL</td> <td>4 S80 UL</td> </tr> <tr> <td>◆ 5"</td> <td>5 S40 UL</td> <td>5 S80 UL</td> </tr> <tr> <td>◆ 6"</td> <td>6 S40 UL</td> <td>6 S80 UL</td> </tr> </table> |  | <u>Schedule 40</u> | <u>Schedule 80</u> | ◆ ½" | 0.5 S40 UL | 0.5 S80 UL | ◆ ¾" | 0.75 S40 UL | 0.75 S80 UL | ◆ 1" | 1 S40 UL | 1 S80 UL | ◆ 1 ¼" | 1.25 S40 UL | 1.25 S80 UL | ◆ 1 ½" | 1.50 S40 UL | 1.50 S80 UL | ◆ 2" | 2 S40 UL | 2 S80 UL | ◆ 2 ½" | 2.5 S40 UL | 2.5 S80 UL | ◆ 3" | 3 S40 UL | 3 S80 UL | ◆ 3 ½" | 3.5 S40 UL | 3.5 S80 UL | ◆ 4" | 4 S40 UL | 4 S80 UL | ◆ 5" | 5 S40 UL | 5 S80 UL | ◆ 6" | 6 S40 UL | 6 S80 UL |
|   | <u>Schedule 40</u> | <u>Schedule 80</u> |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
| ◆ ½"  | 0.5 S40 UL         | 0.5 S80 UL         |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
| ◆ ¾"  | 0.75 S40 UL        | 0.75 S80 UL        |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
| ◆ 1"  | 1 S40 UL           | 1 S80 UL           |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
| ◆ 1 ¼"  | 1.25 S40 UL        | 1.25 S80 UL        |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
| ◆ 1 ½"  | 1.50 S40 UL        | 1.50 S80 UL        |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
| ◆ 2"  | 2 S40 UL           | 2 S80 UL           |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
| ◆ 2 ½"  | 2.5 S40 UL         | 2.5 S80 UL         |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
| ◆ 3"  | 3 S40 UL           | 3 S80 UL           |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
| ◆ 3 ½"  | 3.5 S40 UL         | 3.5 S80 UL         |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
| ◆ 4"  | 4 S40 UL           | 4 S80 UL           |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
| ◆ 5"  | 5 S40 UL           | 5 S80 UL           |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
| ◆ 6"  | 6 S40 UL           | 6 S80 UL           |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
|   |                    |                    |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
|   |                    |                    |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |
|   |                    |                    |  |  |                    |                    |      |            |            |      |             |             |      |          |          |        |             |             |        |             |             |      |          |          |        |            |            |      |          |          |        |            |            |      |          |          |      |          |          |      |          |          |

| <b>High-Density Polyethylene Conduit (HDPE)</b>  |                      |  |  |
|--|----------------------|--|--|
| <b>Manufacturer</b>  | <b>Brand</b>         | <b>Type</b>                                      | <b>Model</b>   |
| Blue Diamond Industries, LLC<br><br>3399 Tates Creek Road<br>Suite 110<br>Lexington, KY 40502<br>(859) 224-0415<br><br><a href="http://www.bdiky.com/">http://www.bdiky.com/</a>   | Blue Diamond<br>HDPE | ♦ HDPE Conduit –<br>Schedule 40<br>Color - Black | ♦ 1/2" BDI065BK-UL<br>♦ 3/4" BDI095BK-UL<br>♦ 1" BDI115BK-UL<br>♦ 1 ¼" BDI135BK-UL<br>♦ 1 ½" BDI165BK-UL<br>♦ 2" BDI215BK-UL<br>♦ 3" BDI315BK-UL<br>♦ 4" BDI414BK-UL   |
| Draka Cableteq USA<br><br>One Tamaque Blvd.<br>Schuylkill Haven, PA 17972<br>(570) 385-4381<br><br><a href="http://www.drakausa.com">http://www.drakausa.com</a>   | Draka                | ♦ HDPE Conduit –<br>Schedule 40<br>Color - Black | ♦ 2" 321659<br>♦ 3" 321663   |
| Dura-line<br><br>11400 Parkside Dr.<br>Suite 300<br>Knoxville, TN. 37934<br>(865) 218-3460<br>(800) 847-7661<br><br><a href="http://www.duraline.com">http://www.duraline.com</a><br><br>Formerly A-D Technologies<br>Name change on MPL Nov. 2013 | Dura-line            | ♦ HDPE Conduit –<br>Schedule 40<br>Color - Black | ♦ 1/2" HDP 050 W SCHE40 SW UVS/UVS N<br>EMPTD X(TXDOT APPROVED)<br>♦ 3/4" HDP 075 W SCHE40 SW UVS/UVS N<br>EMPTD X(TXDOT APPROVED)<br>♦ 1" HDP 100 W SCHE40 SW UVS/UVS N<br>EMPTD X(TXDOT APPROVED)<br>♦ 1 ¼" HDP 125 W SCHE40 SW UVS/UVS N<br>EMPT D X(TXDOT APPROVED)<br>♦ 1 ½" HDP 150 W SCHE40 SW UVS/UVS N<br>EMPTD X(TXDOT APPROVED)<br>♦ 2" HDP 200 W SCHE40 SW UVS/UVS N<br>EMPTD X(TXDOT APPROVED)<br>♦ 3" HDP 300 W SCHE40 SW UVS/UVS N<br>EMPTD X(TXDOT APPROVED)<br>♦ 4" HDP 400 W SCHE40 SW UVS/UVS N<br>EMPTD X(TXDOT APPROVED)<br>♦ 6" HDP 600 W SCHE40 SW UVS/UVS N<br>EMPTD X(TXDOT APPROVED) |

| Precast Polymer Concrete Junction Box for Concrete Traffic Barrier   |                    |  |  |
|--|--------------------|--|--|
| Manufacturer   | Brand              | Type   | Model  |
| Hubbell<br><br>3621 Industrial Park Drive<br>Lenoir City, TN. 37771<br>(800) 346-3062<br><br><a href="http://www.quazite.com">http://www.quazite.com</a> | Hubbell<br>Quazite | <ul style="list-style-type: none"> <li>◆ Median Barrier Box</li> <li>◆ Median Barrier Box – for Concrete Barrier (F-Shape)</li> <li>◆ Junction Box w/Cover<br/>                             OD – 9 X 11 X 7 ¼”<br/>                             ID – 7 ⅜ X 9 ⅜ X 6 ½”</li> </ul> | <ul style="list-style-type: none"> <li>◆ PC1012B500/PC1012CA00</li> <li>◆ PC0516B500/PC0516CA00</li> <li>◆ PC0608Z503831</li> </ul> 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.<br><br><b>Bought out by Southwire Corp.</b>   | American     | ◆ XHHW-2 Or<br>◆ XHHW | ◆ Available in 14 AWG through 750 kcmil<br><br>◆ 6 AWG & 8AWG Available in Black Only<br><br>American will continue to be pre-qualified until stock is depleted. |
| Encore Wire<br><br>1410 Millwood Rd.<br>McKinney, TX 75069<br>(800) 962-9473<br><br><a href="http://www.encorewire.com/">http://www.encorewire.com/</a>   | Encore       | ◆ XHHW-2 Or<br>◆ XHHW | ◆ Available in 14 AWG through 1000 kcmil   |
| Service Wire Company<br><br>Service Wire Company<br>310 Davis Road<br>Culloden, W. Va. 25510<br>(800) 624-3572<br>(713) 674-6666<br>(800) 231-9473<br><br><a href="http://www.servicewire.com">http://www.servicewire.com</a> | Service Wire | ◆ XHHW-2 Or<br>◆ XHHW | ◆ Available in 14 AWG through 750 kcmil  |

| Conductors – Type XHHW   |                  |                       |  |
|--|------------------|-----------------------|--|
| Manufacturer   | Brand            | Type                  | Model  |
| Southwire Corporation<br><br>1 Southwire Division<br>Carrolton, GA 30119<br>(800) 444-1700<br>(770) 832-4242<br><br><a href="http://www.southwire.com/">http://www.southwire.com/</a>        | Southwire        | ♦ XHHW-2 Or<br>♦ XHHW | ♦ Available in 14 AWG through 1000 kcmil<br><br>♦ 6 AWG & 8AWG Available in Black Only   |
| Advanced Digital Cable Inc.<br><br>94 Eagle Fork Road<br>Hayesville, NC 28904<br>(800) 343-2579<br><br><a href="http://www.advanceddigitalcable.com">http://www.advanceddigitalcable.com</a> | Advanced Digital | ♦ XHHW-2 Or<br>♦ XHHW | ♦ Available in 14 AWG through 1000 kcmil   |
| Draka Cableteq USA<br><br>One Tamaque Blvd.<br>Schuylkill Haven, PA 17972<br>(570) 385-4381<br><br><a href="http://www.drakausa.com">http://www.drakausa.com</a>                             | Draka            | ♦ XHHW-2              | ♦ 8 AWG Black 6200110BK<br>♦ 8 AWG White 6200110WH<br>♦ 8 AWG Red 6200110RD<br>♦ 8 AWG Green 6200110GN<br>♦ 6 AWG Black 6200359BK<br>♦ 6 AWG White 6200359WH<br>♦ 6 AWG Red 6200359RD<br>♦ 6 AWG Green 6200359GN<br>♦ 4 AWG Black 6200020BK<br>♦ 4 AWG White 6200020WH<br>♦ 4 AWG Red 6200020RD<br>♦ 4 AWG Green 6200020GN<br>♦ 2 AWG Black 6200067BK<br>♦ 2 AWG White 6200067WH<br>♦ 2 AWG Red 6200067RD<br>♦ 2 AWG Green 6200067GN<br>♦ 8 AWG Bare 113-0007-168<br>♦ 6 AWG Bare 113-0007-146<br>♦ 4 AWG Bare 113-0007-137<br>♦ 2 AWG Bare 113-0007-100 |

| Conductors – Type XHHW  |                    |                       |  |
|---|--------------------|-----------------------|--|
| Manufacturer  | Brand              | Type                  | Model  |
| Falcon Fine Wire<br><br>2401 Discovery Blvd.<br>Rockwall, TX 75032<br>(800) 874-7230<br>(214) 771-3441<br><br><a href="http://www.falconfinewire.com">http://www.falconfinewire.com</a> | Falcon             | ♦ XHHW-2 Or<br>♦ XHHW | ♦ Available in 14 AWG through 4000 kcmil<br><br>Available Jacket Colors:<br>Black, Red, White, Green<br><br>3090194 – ETL Number Will Be Printed On Jacket   |
| Republic Wire Inc.<br><br>5525 Union Centre Drive<br>West Chester, OH 45069<br>(513) 860-1800<br><br><a href="http://www.republicwire.com">http://www.republicwire.com</a>              | Republic Wire Inc. | ♦ XHHW-2 Or<br>♦ XHHW | ♦ Available in 8 AWG through 2 AWG<br><br>Available Jacket Colors:<br>Black, Red, White, Green<br><br>♦ Available in 1/0 AWG through 750 Kcmil<br>Available in Black Only<br><br>♦ Bare Copper<br>Soft Drawn Solid and Stranded 8AWG - 2AWG  |
| Coleman Cable, Inc.<br><br>1530 Shields Drive<br>Waukegan, IL 60085<br>(800) 325-9355<br><br><a href="http://www.colemancable.com">http://www.colemancable.com</a>                      | CCI                | ♦ XHHW-2              | Available in Black Only<br><br>♦ 8 AWG 18080<br>♦ 6 AWG 18060<br>♦ 4 AWG 18040<br>♦ 2 AWG 18020<br>♦ 1 AWG 18010<br>♦ 1/0 AWG 18100<br>♦ 2/0 AWG 18200<br>♦ 3/0 AWG 18300<br>♦ 4/0 AWG 18400<br>♦ 250 MCM 18250<br>♦ 350 MCM 18350<br>♦ 400 MCM 18440<br>♦ 500 MCM 18500<br><br>♦ Bare Copper<br>Solid and Stranded 8 AWG – 4AWG<br>Stranded 2 AWG – 600 kcmil |

| <b>Breakaway Fuse-holders</b>   |                |                                    |   |
|---|----------------|------------------------------------|---|
| <b>Manufacturer</b>   | <b>Brand</b>   | <b>Type</b>                        | <b>Model</b>  |
| Cooper Bussmann, Inc.<br><br>P.O. Box 14460<br>St. Louis, MO 63178-4460<br>(636) 394 2877<br><br><a href="http://www.bussmann.com/">http://www.bussmann.com/</a>  | Bussmann       | ♦ Double-pole<br><br>♦ Double-pole | ♦ HEX-KW-DRYC – used when no neutral is required<br><br>♦ HEN-KW-DRYC – used when neutral is present<br><br>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. <b>To be used when TxDOT Standards RIP and RID sheets are in plan set.</b> |
| Littelfuse Inc.<br><br>800 E. Northwest Highway<br>Des Plaines, IL 60016-3096<br>(847) 824-1188<br><br><a href="http://www.littelfuse.com">http://www.littelfuse.com</a>  | Littelfuse     | ♦ Double-pole<br><br>♦ Double-pole | ♦ 0LEXYYSX – used when no neutral is required<br><br>♦ LEXT0YYSX – used when neutral is present<br><br>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. <b>To be used when TxDOT Standards RIP and RID are in the plan set.</b>         |
| Mersen USA<br><br>374 Merrimac Street<br>Newburyport, MA 01950<br>(978) 462-6662<br><br><a href="http://www.ferrazshawmut.com">http://www.ferrazshawmut.com</a><br><br>Ferraz Shawmut is Now Mersen. Parent Company name change only. Brand of connector is still Ferraz Shawmut. | Ferraz Shawmut | ♦ Double-pole<br><br>♦ Double-pole | ♦ FEX-91-91-BA – used when no neutral is required<br><br>♦ FEXN-91-91-BA – used when neutral is present<br><br>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. <b>To be used when TxDOT Standards RIP and RID are in the plan set.</b> |

| <b>Breakaway Fuse-holders</b>   |                       |  |  |
|---|-----------------------|--|--|
| <b>Manufacturer</b>   | <b>Brand</b>          | <b>Type</b>  | <b>Model</b>   |
| Ideal Industries, Inc.<br><br>1 Becker Place<br>Sycamore, IL 60178<br>(800) 435-0705<br><br><a href="http://www.idealindustries.com/">http://www.idealindustries.com/</a> | Ideal-Buchanan<br>SLK | <ul style="list-style-type: none"> <li>◆ Double-pole</li> <br/> <li>◆ Double-pole</li> </ul> | <ul style="list-style-type: none"> <li>◆ 30-S2222D – used when no neutral is required</li> <br/> <li>◆ 30-S2222P – used when neutral is present</li> </ul> <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. <b>To be used when TxDOT Standards RIP and RID are in the plan set.</b></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.

| <b>Tray Cable- XHHW Conductors with Overall PVC Jacket</b>  |              |   |  |
|---|--------------|---|--|
| <b>Manufacturer</b>   | <b>Brand</b> | <b>Type</b>   | <b>Model</b>   |
| American Insulated Wire Co.<br><br><b>Bought out by Southwire Corp.</b>   | American     | ◆ Tray Cable – Power Cable – XLP<br>XHHW-2 Insulation,<br>PVC Jacket, Copper Conductors | ◆ Available in 14 AWG through 500 kcmil<br><br>American will continue to be pre-qualified until stock is depleted. |
| Service Wire Company<br><br>310 Davis Road<br>Culloden, W. Va. 25510<br>(800) 624-3572<br>(713) 674-6666<br>(800) 231-9473<br><br><a href="http://www.servicewire.com">http://www.servicewire.com</a> | Service Wire | ◆ Tray Cable – Power Cable – XLP<br>XHHW-2 Insulation,<br>PVC Jacket, Copper Conductors | ◆ Available in 14 AWG through 750 kcmil  |
| Southwire Corporation<br><br>1 Southwire Division<br>Carrolton, GA 30119<br>(800) 444-1700<br>(770) 832-4242<br><br><a href="http://www.southwire.com/">http://www.southwire.com/</a>                 | Southwire    | ◆ Tray Cable – Power Cable – XLP<br>XHHW-2 Insulation,<br>PVC Jacket, Copper Conductors | ◆ Available in 14 AWG through 500 kcmil  |

| <b>Tray Cable- XHHW Conductors with Overall PVC Jacket</b>   |                  |   |  |
|--|------------------|---|--|
| <b>Manufacturer</b>  | <b>Brand</b>     | <b>Type</b>   | <b>Model</b>                             |
| Advanced Digital Cable Inc.<br><br>94 Eagle Fork Road<br>Hayesville, NC 28904<br>(800) 343-2579<br><br><a href="http://www.advanceddigitalcable.com">http://www.advanceddigitalcable.com</a> | Advanced Digital | ♦ Tray Cable – Power Cable – XLP<br>XHHW Insulation,<br>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.

| <b>Duct Cable with Type XHHW Conductors</b>  |              |  |  |
|--|--------------|--|--|
| <b>Manufacturer</b>  | <b>Brand</b> | <b>Type</b>  | <b>Model</b>   |
| Dura-line<br><br>11400 Parkside Dr.<br>Suite 300<br>Knoxville, TN. 37934<br>(865) 218-3460<br>(800) 847-7661<br><br><a href="http://www.duraline.com">http://www.duraline.com</a><br><br>Formerly A-D Technologies<br>Name change on MPL Jan. 2014 | 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.<br><br>Printing on Outside Wall of Duct as Per DMS 11060<br>Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved” |
| Blue Diamond Industries, LLC<br><br>3399 Tates Creek Road<br>Suite 110<br>Lexington, KY 40502<br>(859) 224-0415<br><br><a href="http://www.bdiky.com/">http://www.bdiky.com/</a>   | 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.<br><br>Printing on Outside Wall of Duct as Per DMS 11060<br>Also Printed on Outside Wall of Duct will be “TxDOT” or “TxDOT Approved” |
| Draka Cableteq USA<br><br>One Tamaque Blvd.<br>Schuylkill Haven, PA 17972<br>(800) 233-3190<br><br><a href="http://www.drakausa.com">http://www.drakausa.com</a>   | 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.<br><br>Printing on Outside Wall of Duct as Per DMS 11060<br>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<br><br>3621 Industrial Park Drive<br>Lenoir City, TN. 37771<br>(800) 346-3062<br><br><a href="http://www.quazite.com">http://www.quazite.com</a> | Hubbell<br>Quazite | ♦ A<br>♦ B<br>♦ C<br>♦ D<br>♦ E | ♦ PG1324B512 / PG1324H506<br>♦ 2PG1324B512 / PG1324H506<br>♦ PG1730B512 / PG1730H507<br>♦ PG1730B517 / PG1730H507<br>♦ PG1324B514 / PG1324H506  |
|  |                    | Cover For Type A, B & E         | ♦ PG1324H5064A (Danger High Voltage FTM)<br>♦ PG1324H5064B (Danger High Voltage Irrigation)<br>♦ PG1324H5064D(Danger High Voltage Illumination)<br>♦ PG1324H5064E (Danger High Voltage Traffic Signal)<br>♦ PG1324H5064G (Danger High Voltage Sign Lighting)<br>♦ PG1324H506H7 (Danger High Voltage)  |
|  |                    | Cover For Type C & D            | ♦ PG1730H5074A (Danger High Voltage FTM)<br>♦ PG1730H5074B (Danger High Voltage Irrigation)<br>♦ PG1730H5074D (Danger High Voltage Illumination)<br>♦ PG1730H5074E (Danger High Voltage Traffic Signal)<br>♦ PG1730H5074G (Danger High Voltage Sign Lighting)<br>♦ PG1730H507H7 (Danger High Voltage) |

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

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

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

| Ground Boxes – Precast Polymer Concrete  |           |  |  |
|--|-----------|--|--|
| Manufacturer   | Brand     | Type   | Model  |
| Oldcastle Enclosure Solutions<br><br>2434 Rubidoux Blvd.<br>Riverside, CA. 92509<br>(800) 735-5566<br>(713) 875-8030<br><br><a href="http://www.oldcastleprecast.com/enclosuresolutions">http://www.oldcastleprecast.com/enclosuresolutions</a><br><br>Carson Industries, LLC.<br>is now Oldcastle Enclosure Solutions 8-29-2013<br>Model numbers are the same | Oldcastle | ♦ A<br>♦ B                                       | ♦ 13242030<br>♦ 13242032   |
|  |           | ♦ C<br>♦ D<br>♦ E<br><br>Cover For Type A, B & E | ♦ 17302061<br>♦ 17302063<br>♦ 13242031<br><br>♦ 13244159- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS<br>♦ 13244156- DANGER HIGH VOLTAGE/ILLUMINATION<br>♦ 13244158- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT<br>♦ 13244157- DANGER HIGH VOLTAGE |
|  |           | Cover For Type C & D                             | ♦ 17304185- DANGER HIGH VOLTAGE/TRAFFIC SIGNALS<br>♦ 17304183- DANGER HIGH VOLTAGE/ILLUMINATION<br>♦ 17304184- DANGER HIGH VOLTAGE/TRAFFIC MANAGEMENT<br>♦ 17304272- DANGER HIGH VOLTAGE   |

| Ground Boxes – Precast Polymer Concrete  |  |                         |                                      |
|--|--|-------------------------|--------------------------------------|
| Manufacturer   | Brand  | Type                    | Model                                |
| CDR Systems Corporation<br><br>146 South Atlantic Ave.<br>Ormond Beach, FL. 32176<br>(386) 615-9510<br><br><a href="http://www.cdrsystems.com/">http://www.cdrsystems.com/</a> | 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.”<br>Additional Logos Added Per Job Spec. |                         |                                      |

| Ground Boxes – Precast Polymer Concrete   |          |   |  |
|---|----------|---|--|
| Manufacturer  | Brand    | Type  | Model  |
| Highline Products, Inc.<br><br>131 Hartwell Ave.<br>Lexington, MA. 02421<br>(781) 328-3220<br><br><a href="http://www.highlineproducts.com">http://www.highlineproducts.com</a> | Highline | <ul style="list-style-type: none"> <li>◆ A</li> <li>◆ B</li> <li>◆ C</li> <li>◆ D</li> <li>◆ E</li> </ul><br>Cover Logo Information<br>XX in each model will be replaced with : <ul style="list-style-type: none"> <li>◆ 20</li> <li>◆ 21</li> <li>◆ 22</li> <li>◆ 23</li> <li>◆ 24</li> </ul><br>Ordering covers only,<br>Contact Manufacturer | <ul style="list-style-type: none"> <li>◆ PHA132412HTD-XX</li> <li>◆ PHA132424HTD-XX</li> <li>◆ PHA173012HTD-XX</li> <li>◆ PHA173024HTD-XX</li> <li>◆ PHA132418HTD-XX</li> </ul><br><ul style="list-style-type: none"> <li>◆ DANGER HIGH VOLTAGE</li> <li>◆ DANGER HIGH VOLTAGE/ ILLUMINATION</li> <li>◆ DANGER HIGH VOLTAGE/ SIGN ILLUMINATION</li> <li>◆ DANGER HIGH VOLTAGE/ TRAFFIC MANAGEMENT</li> <li>◆ DANGER HIGH VOLTAGE/ TRAFFIC SIGNALS</li> </ul> |

| Ground Boxes – Precast Polymer Concrete   |           |   |  |
|---|-----------|---|--|
| Manufacturer  | Brand     | Type  | Model  |
| Duravault<br><br>310 Weathers Dr.<br>Laredo, TX. 78045<br>(885) 250-3993<br><br><a href="http://www.duravault.com">http://www.duravault.com</a> | Duravault | <ul style="list-style-type: none"> <li>◆ A</li> <li>◆ B</li> <li>◆ C</li> <li>◆ D</li> <li>◆ E</li> </ul> | <ul style="list-style-type: none"> <li>◆ PC132412STBTXD-XX (122311)</li> <li>◆ PC132422STBTXD-XX (122322)</li> <li>◆ PC173012STBTXD-XX (162911)</li> <li>◆ PC173022STBTXD-XX (162922)</li> <li>◆ PC132418STBTXD-XX (122317)</li> </ul> |
|   |           | Cover Logo Information<br>XX in each model will be replaced with :  |  |
|   |           | Cover For Type A, B & E   | <ul style="list-style-type: none"> <li>◆ PCC1324BTXD-TS/ TRAFFIC SIGNAL</li> <li>◆ PCC1324BTXD-IL/ ILLUMINATION</li> <li>◆ PCC1324BTXD-TM/ TRAFFIC MANAGEMENT</li> <li>◆ PCC1324BTXD-SI/ SIGN ILLUMINATION</li> </ul>                  |
|   |           | Cover For Type C & D  | <ul style="list-style-type: none"> <li>◆ PCC1730BTXD-TS/ TRAFFIC SIGNAL</li> <li>◆ PCC1730BTXD-IL/ ILLUMINATION</li> <li>◆ PCC1730BTXD-TM/ TRAFFIC MANAGEMENT</li> <li>◆ PCC1730BTXD-SI/ SIGN ILLUMINATION</li> </ul>                  |
|   |           | Cover For All Boxes   | All Covers Read “DANGER HIGH VOLTAGE”  |

| Ground Boxes – Precast Polymer Concrete   |        |   |   |
|---|--------|---|---|
| Manufacturer  | Brand  | Type  | Model   |
| Martin Enterprises<br>19940 Hansen Avenue<br>Nuevo, CA 92567<br>(951) 928-8413<br><a href="http://www.martinfrp.com">http://www.martinfrp.com</a> | Martin | <ul style="list-style-type: none"> <li>◆ A</li> <li>◆ B</li> <li>◆ C</li> <li>◆ D</li> <li>◆ E</li> </ul> | <ul style="list-style-type: none"> <li>◆ 1324/12 PC Type A Tier 15 Rated</li> <li>◆ 1324/24 PC Type B Tier 15 Rated</li> <li>◆ 1730/18 PC Type C Tier 15 Rated</li> <li>◆ 1730/24 PC Type D Tier 15 Rated</li> <li>◆ 1324/18 PC Type E Tier 15 Rated</li> </ul>                   |
|   |        | Cover For Type A, B & E   | <ul style="list-style-type: none"> <li>◆ 1324 Cover Traffic Signal / DANGER - HIGH VOLTAGE/TRAFFIC SIGNALS</li> <li>◆ 1324 Cover Illumination / DANGER - HIGH VOLTAGE/ILLUMINATION</li> <li>◆ 1324 Cover Traffic Management / DANGER - HIGH VOLTAGE/TRAFFIC MANAGEMENT</li> </ul> |
|   |        | Cover For Type C & D  | <ul style="list-style-type: none"> <li>◆ 1730 Cover Traffic Signal / DANGER - HIGH VOLTAGE/TRAFFIC SIGNALS</li> <li>◆ 1730 Cover Illumination / DANGER - HIGH VOLTAGE/ILLUMINATION</li> <li>◆ 1730 Cover Traffic Management / DANGER - HIGH VOLTAGE/TRAFFIC MANAGEMENT</li> </ul> |

## 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<br><br>10623 Sentinel Drive<br>San Antonio, TX 78217<br>(210) 599-6485<br>(888) 853-8944<br><br><a href="http://www.electrolsystems.com/">http://www.electrolsystems.com/</a>  | Electrol | ♦ A<br><br>♦ C<br><br>♦ C- Auxiliary Only<br><br>♦ D<br><br>♦ T- Auxiliary Only<br><br>♦ T-All in One<br><br>♦ A-Pedestal<br><br>♦ D-Pedestal   | ♦ ELECTROL TYPE A-TXDOT<br><br>♦ ELECTROL TYPE C-TXDOT<br><br>♦ ELECTROL TYPE C- Auxiliary Only – TXDOT<br><br>♦ ELECTROL TYPE D-TXDOT<br><br>♦ ELECTROL TYPE T- Auxiliary Only - TXDOT<br><br>♦ ELECTROL TYPE T- ALL IN ONE ENCLOSURE –TXDOT<br><br>♦ ELECTROL TYPE A-PEDESTAL-TXDOT<br><br>♦ ELECTROL TYPE D-PEDESTAL-TXDOT |
| WE Manufacturing<br><br>5535 Harvey Wilson Drive<br>Houston , TX 77020<br>(713) 676-2298<br>(800) 880-9453<br><br><a href="http://www.wemanufacturing.com/">http://www.wemanufacturing.com/</a> | WE       | ♦ A<br><br>♦ C<br><br>♦ C- Auxiliary Only<br><br>♦ D<br><br>♦ T- Auxiliary Only<br><br>♦ T-All in One<br><br>♦ A – Pedestal<br><br>♦ D-Pedestal | ♦ WE TYPE A-TXDOT<br><br>♦ WE TYPE C-TXDOT<br><br>♦ WE TYPE C- Auxiliary Only –TXDOT<br><br>♦ WE TYPE D-TXDOT<br><br>♦ WE TYPE T- Auxiliary Only –TXDOT<br><br>♦ WE TYPE T- ALL IN ONE ENCLOSURE – TXDOT<br><br>♦ WE TYPE A- PEDESTAL – TXDOT<br><br>♦ WE TYPE D-PEDESTAL – TXDOT   |

| <b>Electrical Service</b>   |              |  |   |
|---|--------------|--|---|
| <b>Manufacturer</b>   | <b>Brand</b> | <b>Type</b>  | <b>Model</b>  |
| Mica Corporation<br><br>P.O. Box 161609<br>Fort Worth , TX 77020<br>(817) 847-6121<br>(817) 577-2088<br><br><a href="http://micacorporation.com">http://micacorporation.com</a> | Mica         | <ul style="list-style-type: none"> <li>◆ A</li> <li>◆ C</li> <li>◆ D</li> <li>◆ T- Auxiliary Only</li> <li>◆ T-All in One</li> </ul> | <ul style="list-style-type: none"> <li>◆ MICA TYPE A-TXDOT</li> <li>◆ MICA TYPE C-TXDOT</li> <li>◆ MICA TYPE D-TXDOT</li> <li>◆ MICA TYPE T- Auxiliary Only –TXDOT</li> <li>◆ MICA TYPE T- ALL IN ONE ENCLOSURE –TXDOT</li> </ul> |
| Specialty Control Systems<br><br>629 SH 3<br>League City , TX 77573<br>(281) 332-0999<br><br><a href="http://www.specialtycontrol.com/">http://www.specialtycontrol.com/</a>    | SCS          | <ul style="list-style-type: none"> <li>◆ A</li> <li>◆ D</li> <li>◆ T-All in One</li> <li>◆ D-Pedestal</li> </ul>                     | <ul style="list-style-type: none"> <li>◆ SCS TYPE A-TXDOT</li> <li>◆ SCS TYPE D-TXDOT</li> <li>◆ SCS TYPE T- ALL IN ONE ENCLOSURE – TXDOT</li> <li>◆ SCS TYPE D-PEDESTAL-TXDOT</li> </ul>   |

| Electrical Service  |       |  |  |
|---|-------|--|--|
| Manufacturer  | Brand | Type   | Model  |
| Tesco Controls, Inc.<br><br>3434 52 <sup>nd</sup> Ave.<br>Sacramento , CA 95823<br>(916) 395-8800<br><br><a href="http://www.tescocontrols.com">http://www.tescocontrols.com</a>                        | Tesco | ♦ A-Pedestal<br><br>♦ A-Pedestal<br><br>♦ C-Pedestal<br><br>♦ D-Pedestal | ♦ TESCO TYPE A-PEDESTAL-TXDOT<br>(120/240)<br>♦ TESCO TYPE A-1-PEDESTAL-TXDOT<br>(240/480)<br>♦ TESCO TYPE C-PEDESTAL-TXDOT<br><br>♦ TESCO TYPE D-PEDESTAL-TXDOT |
| Myers Power Products, Inc.<br><br>725 E. Harrison St.<br>Corona , CA 92879<br>(951) 520-1900<br>(866) 696-9377<br><br><a href="http://www.myerspowerproducts.com">http://www.myerspowerproducts.com</a> | Myers | ♦ A-Pedestal<br><br>♦ D-Pedestal<br><br>♦ D<br><br>♦ T                   | ♦ MEUG16 TYPE A-PEDESTAL-TXDOT<br><br>♦ MEUG16 TYPE D-PEDESTAL-TXDOT<br><br>♦ MYERS TYPE D-TXDOT<br><br>♦ MYERS TYPE T-TXDOT                                     |

| Electrical Service   |         |   |  |
|--|---------|---|--|
| Manufacturer   | Brand   | Type  | Model  |
| Associated Starters & Controls<br><br>310 Breesport, Ste. D<br>San Antonio , TX 78216<br>(210) 798-1334<br>(888) 798-1334  | ASC     | ♦ A<br><br>♦ C<br><br>♦ D<br><br>♦ T<br><br>♦ T-Auxiliary<br><br>♦ A - Pedestal<br><br>♦ D - Pedestal | ♦ ASC TYPE A-TXDOT<br><br>♦ ASC TYPE C-TXDOT<br><br>♦ ASC TYPE D-TXDOT<br><br>♦ ASC TYPE T-TXDOT<br><br>♦ ASC TYPE T-AUX-TXDOT<br><br>♦ ASC TYPE A-PEDESTAL - TXDOT<br><br>♦ ASC TYPE D-PEDESTAL - TXDOT |
| Milbank Manufacturing Co.<br><br>4801 Deramus<br>Kansas City , MO 64120<br>(816) 483-5314 (Main Switch Board)<br>(660) 463-0800 (Commercial Pedestal)<br><br><a href="http://milbankmfg.com">http://milbankmfg.com</a> | Milbank | ♦ A - Pedestal<br><br>♦ A - Pedestal<br><br>♦ D - Pedestal  | ♦ MB TYPE A-PEDESTAL –TXDOT<br>(120/240)<br>♦ MB TYPE A-PEDESTAL –TXDOT<br>(240/480)<br>♦ MB TYPE D-PEDESTAL –TXDOT<br>(120/240)   |

| <b>Electrical Service</b>  |  |  |  |
|--|--|--|--|
| <b>Manufacturer</b>  | <b>Brand</b>                           | <b>Type</b>  | <b>Model</b>   |
| Dynamic Automation & Controls<br><br>10560 Sentinel<br>San Antonio , TX 78217<br>(210) 267-2489<br>(855) 465-6099<br><br><a href="http://dynamic-ac.com">http://dynamic-ac.com</a> | Dynamic<br>Automation<br>&<br>Controls | <ul style="list-style-type: none"> <li>◆ A</li> <li>◆ A-Pedestal</li> <li>◆ D</li> <li>◆ D-Pedestal</li> </ul> | <ul style="list-style-type: none"> <li>◆ TYPE A-POLE MOUNT</li> <li>◆ TYPE A-PEDESTAL</li> <li>◆ TYPE D-POLE MOUNT</li> <li>◆ TYPE D-PEDESTAL</li> </ul> |
|  |  |  |  |

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

### Item 685 – Roadside Flashing Beacon Assemblies

**General**

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

| <b>Breakaway Holders-Non-Fused</b>   |                             |   |   |
|--|-----------------------------|---|---|
| <b>Manufacturer</b>  | <b>Brand</b>                | <b>Type</b>   | <b>Model</b>  |
| <p>Mersen USA</p> <p>374 Merrimac Street<br/>Newburyport, MA 01950<br/>(978) 462-6662</p> <p><a href="http://ep-us.mersen.com/">http://ep-us.mersen.com/</a></p> <p>Ferraz Shawmut is Now Mersen.<br/>Parent Company name change only.<br/>Brand of connector is still<br/>Ferraz Shawmut.</p> | <p>Ferraz<br/>Shawmut</p>   | <ul style="list-style-type: none"> <li>◆ Single Pole</li> <li>◆ Single Pole</li> <li>◆ Dummy Fuse (Slug)</li> </ul> | <ul style="list-style-type: none"> <li>◆ FEB-81-81-BA when fused use slug</li> <li>◆ FEBN-81-81-BA for neutral (non-fused)</li> <li>◆ MNL30 - Slug</li> </ul> <p>These breakaway connectors are to be used when required by <b>TxDOT Standards RFBA and SPRFBA</b>. Installing contractor to supply dummy fuse-(slug).</p>                |
| <p>Littelfuse Inc.</p> <p>800 E. Northwest Highway<br/>Des Plaines, IL 60016-3096<br/>(847) 824-1188</p> <p><a href="http://www.littelfuse.com">http://www.littelfuse.com</a></p>  | <p>Littelfuse</p>           | <ul style="list-style-type: none"> <li>◆ Single Pole</li> <li>◆ Single Pole</li> <li>◆ Dummy Fuse (Slug)</li> </ul> | <ul style="list-style-type: none"> <li>◆ LEB-JJ-S-WPB1 when fused use slug</li> <li>◆ LET-JJ-S-WPB1 for neutral (non-fused)</li> <li>◆ Not available at this time</li> </ul> <p>These breakaway connectors are to be used when required by <b>TxDOT Standards RFBA and SPRFBA</b>. Installing contractor to supply dummy fuse-(slug).</p> |
| <p>Eaton’s Bussmann Business.</p> <p>114 Old State Road<br/>Ellisville, MO 63021<br/>(855) 287-7626</p> <p><a href="http://www.bussmann.com/">http://www.bussmann.com/</a></p>   | <p>Cooper-<br/>Bussmann</p> | <ul style="list-style-type: none"> <li>◆ Single Pole</li> <li>◆ Single Pole</li> <li>◆ Dummy Fuse (Slug)</li> </ul> | <ul style="list-style-type: none"> <li>◆ HEB-JW-RLC-J when fused use slug</li> <li>◆ HET-JW-RLC-J for neutral (non-fused)</li> <li>◆ NTS-R-30 - Slug</li> </ul> <p>These breakaway connectors are to be used when required by <b>TxDOT Standards RFBA and SPRFBA</b>. Installing contractor to supply dummy fuse-(slug).</p>              |

| <b>Breakaway Holders-Non-Fused</b>  |                            |   |  |
|---|----------------------------|---|--|
| <b>Manufacturer</b>   | <b>Brand</b>               | <b>Type</b>   | <b>Model</b>   |
| Ideal Industries, Inc.<br><br>1375 Park Avenue<br>Sycamore, IL 60178<br>(800) 435-0705<br><br><a href="http://www.idealindustries.com">http://www.idealindustries.com</a> | Ideal –<br>Buchanan<br>SLK | <ul style="list-style-type: none"> <li>◆ Single Pole</li> <li>◆ Single Pole</li> <li>◆ Dummy Fuse (Slug)</li> </ul> | <ul style="list-style-type: none"> <li>◆ 30-S1212 when fused use slug</li> <li>◆ 30-S1212N for neutral (non-fused)</li> <li>◆ Not available at this time</li> </ul> <p>These breakaway connectors are to be used when required by <b>TxDOT Standards RFBA and SPRFBA</b>. Installing contractor to supply dummy fuse-(slug).</p> |
|   |                            |   |  |
|   |                            |   |  |

## Item 687 – Pedestal Pole Assemblies

### General

The following products are pre-qualified for use on projects where Pedestal Pole Bases are furnished or installed as required by the item descriptive code. Where Pedestal Poles 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.

| <b>Pedestal Pole Base</b>   |              |  |  |
|---|--------------|--|--|
| <b>Manufacturer</b>   | <b>Brand</b> | <b>Type</b>  | <b>Model</b>                                       |
| Akron Foundry Company<br><br>2728 Wingate Ave.<br>Akron, OH 44314<br>(330) 745-3101<br><br><a href="http://www.akronfoundry.com">http://www.akronfoundry.com</a>                                    | Akron        | ♦ Pedestal Pole Base<br><br>♦ Pedestal Pole Base with<br>Extended Neck | ♦ TS-1000<br><br>♦ TS-1000-L                       |
| Pelco Products, Inc.<br><br>320 W. 18th Street<br>Edmond, OK 73013<br>(405) 340-3434<br><br><a href="http://www.pelcoinc.com">http://www.pelcoinc.com</a>   | Pelco        | ♦ Pedestal Pole Base   | ♦ SP-1014 -TX                                      |
| Component Products, Inc.<br><br>521 Morse Avenue<br>Schaumburg, IL 60193<br>(800) 807-6537<br>(847) 301-1000<br><br><a href="http://www.componentproducts.com">http://www.componentproducts.com</a> | CPI          | ♦ Pedestal Pole Base<br><br>♦ Pedestal Pole Base with<br>Extended Neck | ♦ CPI-BAS-1P (TXDOT)<br><br>♦ CPI-BAS-1-PX (TXDOT) |