

Submittals Checklist for Conditional Qualification

ELECTRICAL EQUIPMENT AND MATERIALS

PBOT Construction Manager: _____
Contract Number: _____
PBOT Project Number: _____
Engineer of Record: _____
Engineer of Record Phone: _____
Engineer of Record Email: _____

**Intended for use with the City of Portland
Standard Construction Specifications 2010**

Submitting Contractor: _____
Date Submitted: _____
Contractor Representative: _____
Contractor Representative Phone: _____
Contractor Representative Email: _____

Instructions

The *Electrical Equipment and Materials Submittals Checklist* includes preapproved items for use on projects with traffic signals, street lighting, or communications. The Contractor is responsible for downloading the current checklist off the website for each project. The checklist can found on the City of Portland's website at the following address:

<https://www.portlandoregon.gov/transportation/article/190721>

These sheets will be accepted as an Equipment List in accordance with 00960.02 of the *2010 City of Portland Standard Construction Specifications* for equipment included on this list.

Other Equipment Not Included On This List

The contractor shall submit a pdf document of the following per 00960.02. Use the *Controller Equipment Checklist* for preapproved controller equipment.

Submittal Review Process

The Contractor will:

1. Fill out the appropriate project related info on the cover sheet and Table of Contents pages.
2. Check the box in the "On Project" column on the Table of Contents pages for all items included on the project.
3. For each item, check the box for the brand/maker and indicate the catalog/part number. Do not mark more than two (2) options, except for conduit, wire and pole coatings.
4. If the brand/maker and/or model proposed for use is not shown (i.e. not preapproved), then write this information in the blank. If the item is not included on the Table of Contents list, then use the template at the end of the document. Submit adequate supporting documentation such as catalog cutsheets, shop drawings, and specifications. It is the contractor's responsibility to clearly show how the product meets the *2010 City of Portland Standard Construction Specifications* and Special Provisions.
5. Write-in products will require additional review time as these products require evaluation.
6. Submit to the construction engineer a complete pdf document which includes:
 - a. Completed checklist with each applicable page.
 - b. Write-in materials with supporting documentation.
 - c. Certificate of Materials Origins (CMO) as required per the checkbox.

The Engineer and/or Inspector will:

1. Review the submittals checklist and supporting documentation per 00150.35 of the *2010 City of Portland Standard Construction Specifications*.
2. Return the reviewed pdf document to the Contractor with appropriate notations.

Construction

All materials delivered to the job site shall be **clearly marked** as to the brand/maker and model/part description, or shall be accompanied by supplier's certification as to brand/maker and model/part description.

The Contractor will:

1. Install only materials approved by the Engineer/Inspector through the materials submittal review and approval process described above.
2. Submit required CMO's **prior** to installation.

The Inspector will:

1. Verify that materials installed match the approved items on the submittal checklist.
2. Verify the materials are installed per plans and specifications.
3. Fill out Field Inspection Report for items listed in Table of Contents.

Project Name: _____

Project Number: _____

Inspector to check each FIR box, and sign and date below to indicate material has been installed per plans and specifications.

Name: _____ Date: _____

Table of Contents

Page	Item	On Project	CMO Required ¹	FIR
Common Electrical				
1	Electrician Information	<input type="checkbox"/>		<input type="checkbox"/>
2	Bond Connectors	<input type="checkbox"/>		<input type="checkbox"/>
3	Bond Wire	<input type="checkbox"/>		<input type="checkbox"/>
3	Cable Ties	<input type="checkbox"/>		<input type="checkbox"/>
4	Conduit - Metallic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Conduit - Non-Metallic	<input type="checkbox"/>		<input type="checkbox"/>
6	Conduit Bushing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Conduit Hub	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Grounding/Bond Bushing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Condulet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Conduit Plug	<input type="checkbox"/>		<input type="checkbox"/>
7	Expansion Fitting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Ground Rod and Clamp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	In-Line Kits, Fuses, and Insulating Boots	<input type="checkbox"/>		<input type="checkbox"/>
10	Junction Box - Cast Iron	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11 & 12	Junction Box - Concrete	<input type="checkbox"/>		<input type="checkbox"/>
13	Pull Line	<input type="checkbox"/>		<input type="checkbox"/>
13	Terminal Blocks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	Terminal Cabinet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	THWN & XHHW Wire	<input type="checkbox"/>		<input type="checkbox"/>
14	Underground Warning Tape	<input type="checkbox"/>		<input type="checkbox"/>
15	Weatherhead	<input type="checkbox"/>		<input type="checkbox"/>
15	Wire Nut	<input type="checkbox"/>		<input type="checkbox"/>
15	Multi-Tap Connector	<input type="checkbox"/>		<input type="checkbox"/>

¹ Certificate of Material Origin (CMO) required if steel or iron. See 2010 City of Portland Standard Construction Specifications.

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Name: _____ Date: _____

Table of Contents

Page	Item	On Project	CMO Required ¹	FIR
Signal Installation				
16	Bike Signal - 4 Inch	<input type="checkbox"/>		<input type="checkbox"/>
16	Blue LED Light	<input type="checkbox"/>		<input type="checkbox"/>
16	Cabinet Riser Frame	<input type="checkbox"/>		<input type="checkbox"/>
17	Control Cable	<input type="checkbox"/>		<input type="checkbox"/>
17	Loop Feeder Cable	<input type="checkbox"/>		<input type="checkbox"/>
17	Loop - Preformed	<input type="checkbox"/>		<input type="checkbox"/>
18	Loop Wire, Sealant, and Backer-Rod	<input type="checkbox"/>		<input type="checkbox"/>
19	Pedestrian Signal Housing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	Pedestrian Signal Mount - Clamshell	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	Pedestrian LED Module	<input type="checkbox"/>		<input type="checkbox"/>
20	Plumbizer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	Preemption Cable	<input type="checkbox"/>		<input type="checkbox"/>
21	Pushbutton - APS, Bike	<input type="checkbox"/>		<input type="checkbox"/>
22	Rectangular Rapid Flash Beacon (RRFB) System	<input type="checkbox"/>		<input type="checkbox"/>
23	Service Cabinet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24	Spanwire Hanger	<input type="checkbox"/>		<input type="checkbox"/>
24	Spanwire / Messenger Cable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25	Spanwire - Eyebolt, Turnbuckle, Strandvise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	Tether / Stabilizer Cable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	Tether Clamp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	Tri-Stud Adapter	<input type="checkbox"/>		<input type="checkbox"/>
27	Vehicle Signal Adjustable Bracket	<input type="checkbox"/>		<input type="checkbox"/>
27	Vehicle Signal Backplate	<input type="checkbox"/>		<input type="checkbox"/>
28	Vehicle Signal Housing	<input type="checkbox"/>		<input type="checkbox"/>
28	Vehicle Signal Visor	<input type="checkbox"/>		<input type="checkbox"/>
28	Vehicle Signal Louver	<input type="checkbox"/>		<input type="checkbox"/>

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Table of Contents

Page	Item	On Project	CMO Required ¹	FIR
Signal Installation (continued)				
29	Vehicle Signal LED Modules - Red	<input type="checkbox"/>		<input type="checkbox"/>
30	Vehicle Signal LED Modules - Yellow	<input type="checkbox"/>		<input type="checkbox"/>
31	Vehicle Signal LED Modules - Green	<input type="checkbox"/>		<input type="checkbox"/>
32	Vehicle / Pedestrian Signal Cover	<input type="checkbox"/>		<input type="checkbox"/>
32	Video Monitoring PTZ Camera System	<input type="checkbox"/>		<input type="checkbox"/>
Signs				
33	Sign - PTR (Part-Time Restriction)	<input type="checkbox"/>		<input type="checkbox"/>
33	Sign Mount Framework	<input type="checkbox"/>		<input type="checkbox"/>
34 & 35	School Zone Flasher	<input type="checkbox"/>		<input type="checkbox"/>
Illumination				
36	Photoelectric Cell	<input type="checkbox"/>		<input type="checkbox"/>
37	Ornamental Luminaire	<input type="checkbox"/>		<input type="checkbox"/>
38 & 39	Post Top Luminaire (Miscellaneous)	<input type="checkbox"/>		<input type="checkbox"/>
40	South Waterfront Luminaire	<input type="checkbox"/>		<input type="checkbox"/>
40	South Auditorium Luminaire	<input type="checkbox"/>		<input type="checkbox"/>
41 & 42	LED Cobrahead Luminaire	<input type="checkbox"/>		<input type="checkbox"/>
Communications				
43	Ethernet Switch	<input type="checkbox"/>		<input type="checkbox"/>
44	Ethernet Cable	<input type="checkbox"/>		<input type="checkbox"/>
45	Fiber Optic Cable	<input type="checkbox"/>		<input type="checkbox"/>
45	Fiber Optic Patch Panel	<input type="checkbox"/>		<input type="checkbox"/>
45	Fiber Optic Splice Closure	<input type="checkbox"/>		<input type="checkbox"/>
46	Interconnect Cable (Copper)	<input type="checkbox"/>		<input type="checkbox"/>
46	Wireless Communication System	<input type="checkbox"/>		<input type="checkbox"/>

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Poles				
47	Single Mast Arm Pole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
47	Combination Mast Arm Pole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
47	Dual Mast Arm Pole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
48	Strain Pole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
48	Pedestal (Small) - Pedestrian Pipe Post	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
48	Pedestal (Large) - Vehicle Signal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
49	Aluminum Illumination Pole	<input type="checkbox"/>		<input type="checkbox"/>
49	Steel Illumination Pole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50	Twin Ornamental Street Light Pole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50	Single Ornamental Street Light Pole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50	Bottleneck Street Light Pole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
51	South Waterfront Steel Combination Pole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
52	Wood Pole	<input type="checkbox"/>		<input type="checkbox"/>
52	Pole Caps	<input type="checkbox"/>		<input type="checkbox"/>
52	Luminaire Arm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
53	Pole Coating	<input type="checkbox"/>		<input type="checkbox"/>
xx	Blank Form	<input type="checkbox"/>		<input type="checkbox"/>

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Project Name: _____

Project Number: _____

Licensed Electrician

Description: According to the Oregon Administrative Rule 918-282-0120(1), every person engaged in the installation of electrical equipment and wiring systems shall possess a valid Oregon Electrical Supervising or Journeyman's License, or be registered as an Electrical Apprentice.

Use: Information regarding licensed electricians on the job.

General Supervising Electrician

<u>Name:</u>	<u>License Number:</u>
_____	_____
_____	_____
_____	_____
_____	_____

General Journeyman Electrician

Name:	License Number:
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Apprentice Electrician

Name:	License Number:
_____	_____
_____	_____
_____	_____
_____	_____

Bond Connectors

Description: Mechanical bonding connectors.

Use: For connecting bond conductors.

Brand / Manufacturer

Model / Part No.

Single Bolt Vise Type Connector

- | | |
|---|------------|
| <input type="checkbox"/> Hubbell / Anderson / Fargo | GC Series |
| <input type="checkbox"/> Burndy | KSU Series |
| <input type="checkbox"/> _____ | _____ |

Single Center Bolt Parallel Groove Connector

- | | |
|---|-----------|
| <input type="checkbox"/> Hubbell / Anderson / Fargo | LC Series |
| <input type="checkbox"/> _____ | _____ |

Transformer / Pole Ground Connector

- | | |
|--|-----------|
| <input type="checkbox"/> Blackburn / T&B | TC Series |
| <input type="checkbox"/> _____ | _____ |

H-Type Compression Connector - Aluminum

- | | |
|--|-------------|
| <input type="checkbox"/> Blackburn / T&B | UB 214 |
| <input type="checkbox"/> Burndy | YACL series |
| <input type="checkbox"/> _____ | _____ |

INITIAL SUBMITTAL

- | | |
|--|--|
| <input type="checkbox"/> NO EXCEPTION TAKEN | <input type="checkbox"/> REVISE & RESUBMIT |
| <input type="checkbox"/> SUBMIT SPECIFIED ITEM | <input type="checkbox"/> REJECTED |
| <input type="checkbox"/> MAKE CORRECTION NOTED | |

NAME: _____

DATE: _____

REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR

INITIAL SUBMITTAL

- | | |
|--|--|
| <input type="checkbox"/> NO EXCEPTION TAKEN | <input type="checkbox"/> REVISE & RESUBMIT |
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Bond Wire

Description: 7 strand. Green insulation required in conduits.

Use: Bond/grounding wire.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Republic Wire (Anixter)	_____
<input type="checkbox"/> General Cable (Anixter)	_____
<input type="checkbox"/> Rome (Anixter)	_____
<input type="checkbox"/> Superior Essex	_____
<input type="checkbox"/> Southwire	_____
<input type="checkbox"/> Cerro Wire	_____
<input type="checkbox"/> Encore	_____
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Cable Ties

Description: Black nylon or plastic strips, positive, non-release.

Use: Strapping control cable to messenger cable, 6" spacing.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Tyton	T120S0H4
<input type="checkbox"/> Thomas Betts	TY527MX
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Conduit (Metallic)

Description: Rigid galvanized steel conduit, elbows and fittings, and flexible conduit.

Use: Rigid for concrete embedment, foundations, and elbows. Flex inside poles for service feeds.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Republic	_____
<input type="checkbox"/> Picoma	_____
<input type="checkbox"/> Allied Tube & Conduit	_____
<input type="checkbox"/> Conduit Pipe Products	_____
<input type="checkbox"/> Western Tube & Conduit	_____
<input type="checkbox"/> Wheatland Tube Co.	_____
<input type="checkbox"/> Shamrock (T&B)	_____
<input type="checkbox"/> Cal Pipe Manufacturing	_____
<input type="checkbox"/> Ridgeline	_____
<input type="checkbox"/> _____	_____

Liquid-Tight Flexible

<input type="checkbox"/> Anamet Electrical Inc. (Anaconda Sealtite)	Type UA
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

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Conduit (Non-Metallic)

Description: PVC and High Density Polyethylene, and rigid non-metallic

Use: Houses electrical conductors.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
PVC (UL 651)	
<input type="checkbox"/> PW Pipe	Sch. 80
<input type="checkbox"/> Carlon/Prime	Sch. 80
<input type="checkbox"/> J-M Manufacturing	Sch. 80
<input type="checkbox"/> Allied/Heritage	Sch. 80
<input type="checkbox"/> Kraloy	Sch. 80
<input type="checkbox"/> Cantex	Sch. 80
<input type="checkbox"/> Ipex/Scepter	Sch. 80
<input type="checkbox"/> Crestline Northwest	Sch. 80
<input type="checkbox"/> Ridgeline	Sch. 80
<input type="checkbox"/> Heritage Plastics Central	Sch. 80
<input type="checkbox"/> Rocky Mountain Colby Pipe	Sch. 80
<input type="checkbox"/> Allied- Heritage Raceways Technology & Manufacturing	Sch. 80

HDPE (UL 651B)	
<input type="checkbox"/> Carlon	Sch. 80
<input type="checkbox"/> Arnco/Dura-Line	Sch. 80
<input type="checkbox"/> Perma-Guard/UL EPEC 80	Sch. 80

Fiberglass (UL 2420)	
<input type="checkbox"/> Champion Fiberglass	_____
<input type="checkbox"/> FRE Composites	_____
<input type="checkbox"/> United Fiberglass of America	_____
<input type="checkbox"/> Raceways Technology & Manufacturing	_____
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

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Conduit Bushing

Description: Conduit bushings with insulated throat, no bonding lug.
Use: Used on the ends of conduit when bonding lugs are not needed (e.g. shielded pairs, communications cable, fiber optic, etc.)

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Bridgeport	#363 to #370
<input type="checkbox"/> T & B	#1224, #1226 to #1229
<input type="checkbox"/> RACO	#1127 to #1134
<input type="checkbox"/> Crouse-Hinds	#1033 to #1038
<input type="checkbox"/> _____	_____

Polymer End Bell

<input type="checkbox"/> Carlon	_____
<input type="checkbox"/> PW Eagle	_____
<input type="checkbox"/> Ridgeline	_____
<input type="checkbox"/> _____	_____

Conduit Hub

Description: Watertight threaded, nylon insulated steel/malleable iron, neoprene O ring, "Meyers" hub.
Use: Watertight connections.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> O-Z/Gedney	CHM-T
<input type="checkbox"/> Thomas & Betts	#370 to #379
<input type="checkbox"/> _____	_____

Grounding/Bond Bushing

Description: Metallic (malleable iron) conduit bushings with a lay-in lug. Includes insulated throat. Aluminum not allowed.
Use: On ends of conduit to bond conduit system.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Blackjack (Thomas & Betts)	BG series
<input type="checkbox"/> Appleton	GIB series
<input type="checkbox"/> Crouse-Hinds (Lazy Lug)	GLL-1 thru GLL-12 (All)
<input type="checkbox"/> Arlington Industries	452 thru 457
<input type="checkbox"/> Bridgeport	#383 thru 390
<input type="checkbox"/> RACO	1214, 1216, 1218, 1290 & 1292
<input type="checkbox"/> _____	_____

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Condulet

Description: Malleable iron conduit body hot dip galvanized with cover and moistureproof gasket.

Use: Conduit transition/pull point.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Cooper Crouse Hinds	1" to 3" LB
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Conduit Plug

Description: Closed cell polyethylene foam, preformed for specific conduit size. Spray foam is not allowed. Cut to supplier suggested length for conduit size, or may be a mechanical device that expands into conduit expanding to form a seal to conduit and wires/cables.

Use: Foam/mechanical plug, inserted into exposed end of conduit in foundations and junctions boxes, for seal.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Foam Factory	Polyethylene Cylinders (2.2LB)
<input type="checkbox"/> Prairie Electric	Molded Plug
<input type="checkbox"/> Tice Electric	Clark Foam Products
<input type="checkbox"/> Global Electric	Conduit Plugger
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Expansion Fitting

Description: Fitting shall be weatherproof, malleable iron with a hot-dip galvanized finish. Provides expansion for galvanized conduit while still maintaining a bond, internally or with an external jumper.

Use: Provides for conduit expansion movement when crossing expansion joints in/on structures and between fixed enclosures.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> O-Z/Gedney	Type AX & AX8
<input type="checkbox"/> O-Z/Gedney	Bond jumper: Type BJ
<input type="checkbox"/> O-Z/Gedney	Type AXB & AXB8
<input type="checkbox"/> Crouse-Hinds	Type XJG
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Expansion / Deflection

<input type="checkbox"/> _____	_____
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<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Ground Rod

Description: Copper coated 5/8 inch metal rod, 8' to 10' long.

Use: All poles, conduit runs with 120V+ AC, and controller must be bonded to ground rod using full-contact clamps.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Thomas & Betts (Blackburn)	6258
<input type="checkbox"/> Eritech	615880
<input type="checkbox"/> PP Porcelain Products	8438
<input type="checkbox"/> Petron Pacific	5/8"
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
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DATE: _____	
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Ground Rod Clamp

Description: Bronze.

Use: All poles, conduit runs with 120V+ AC, and controller must be bonded to ground rod using full-contact clamps.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Thomas & Betts (Blackburn)	JAB58H
<input type="checkbox"/> Burndy	GRC58
<input type="checkbox"/> Penn-Union	CAB or CEB
<input type="checkbox"/> PP Porcelain Products	8058
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
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In-Line Kits, Fuses, and Insulating Boots

Description: In-line fuse kit, fuses and insulating boots. Rated for 30 A at 600 V to hold a 5 A KTK fuse. Wire terminals shall be set screw type rated for copper wires.

Use: To install in-line 30A fuse for slip-based pole or 10A fuse for fixed base pole. See special provisions.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Cooper Bussman Kit	HEX-JJ
<input type="checkbox"/> Cooper Bussman Kit	HEB-JJ
<input type="checkbox"/> Cooper Bussman Fuse	KTK Series
<input type="checkbox"/> Cooper Bussman Insulating Boot	2A0660
<input type="checkbox"/> Littelfuse	LEX-JJ
<input type="checkbox"/> Littelfuse	LEB-JJ
<input type="checkbox"/> Littelfuse Insulating Boot	WPB1
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL

NO EXCEPTION TAKEN REVISE & RESUBMIT
 SUBMIT SPECIFIED ITEM REJECTED
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Junction Box - Cast Iron

Description: Watertight boxes of cast iron, gasketed lid held down with stainless steel screws.

Use: In traffic areas. (Pavement) Pull box for 120V AC conduit runs. Junction box for DC conduit runs. (Splices to loop feeder.)

Brand / Manufacturer

Model / Part No.

Outside Flanged Recessed Cover Box

- Spring City Type ER with Slipnot Grade 2 lid
- _____ _____

Overlapping Cover Box

- O-Z Gedney Type YL
- _____ _____

INITIAL SUBMITTAL

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Junction Box - Concrete

Description: Open-bottom boxes of pre-cast reinforced concrete with brass or stainless steel fasteners. Polymer concrete also allowed.

Use:

Brand / Manufacturer

Model / Part No.

Type A

- Oldcastle box NO9 BOX PC1015/09-T
- Oldcastle lid - ANSI/SCTE Tier 22, polymer tread pattern

Mark all applicable lid legends used:

- "TRAFFIC SIGNAL"
- "STREET LIGHTING"
- "ELECTRIC" - fused, multiple power sources
- "COMMUNICATION"
- "COP ELECTRIC" - unfused wires

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
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DATE: _____	
<small>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</small>	

Type B

- Oldcastle box N30 BOX PC1324-T
- Oldcastle lid - ANSI/SCTE Tier 22, polymer tread pattern
- _____ _____

Mark all applicable lid legends used:

- "TRAFFIC SIGNAL"
- "STREET LIGHTING"
- "ELECTRIC" - fused, multiple sources
- "COMMUNICATION"
- "COP ELECTRIC" - unfused wires

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
NAME: _____	
DATE: _____	
<small>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS</small>	

Junction Box - Concrete

Description: Open-bottom boxes of pre-cast reinforced concrete w/brass or stainless steel fasteners. Type C and D have closed bottom. Polymer concrete also allowed.

Use:

Brand / Manufacturer

Model / Part No.

Type C

- Oldcastle box N36 BOX PC1730-T
- Oldcastle box 12" extension
- Oldcastle lid - ANSI/SCTE Tier 22, Polymer tread pattern

Mark all applicable lid legends used:

- "TRAFFIC SIGNAL"
- "STREET LIGHTING"
- "ELECTRIC" - fused, multiple power sources
- "COMMUNICATION"

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
NAME: _____	
DATE: _____	
<i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS</i>	

Type D

- Oldcastle box N36 BOX PC1730-T
- Oldcastle box 12" extension
- Oldcastle box N40 BOX PC2436-T
- Oldcastle box 10" extension
- Oldcastle lid - ANSI/SCTE Tier 22, Polymer tread pattern
- _____

Mark all applicable lid legends used:

- "TRAFFIC SIGNAL"
- "STREET LIGHTING"
- "ELECTRIC" - fused, multiple power sources
- "COMMUNICATION"

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
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Pull Line

Description: Polyester line with a break strength of 1200 lbs.

Use: Each conduit shall have a polyester pull line installed and 40 inches of slack in box.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Herculine Polyester	P1250W
<input type="checkbox"/> Herculine Kevlar	A1250W
<input type="checkbox"/> Muletape	_____
<input type="checkbox"/> Dottie	DWP1500
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
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Terminal Blocks

Description: Sectional wire termination points, 600 volt rated, Solderless connections, tubular clamp, sized for wire being terminated, channel mount assembly.

Use: For terminating wires/cables in terminal cabinets, etc.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Entrelec	'M' Series
<input type="checkbox"/> Buchanan	200 Series (600V) 900 Series (600V)
<input type="checkbox"/> SQUARE 'D'	Type 'K'
<input type="checkbox"/> Allen-Bradley	1492-CA1
<input type="checkbox"/> Marathon	6H38, 6H12
<input type="checkbox"/> Phoenix Contact	UT4, UT6
<input type="checkbox"/> Marathon	602-12 (recessed cabinet)
<input type="checkbox"/> Marathon	J602 (jumper)
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
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Terminal Cabinet

Description: Constructed of 1/8" stainless, galv. steel, or powder coated aluminum. Contains terminal blocks, weatherproof fittings.

Use: Pole mounted terminations.

Instructions: Shop drawing shall be submitted. Type and size to be indicated.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Fouch	_____
<input type="checkbox"/> Rhino Manufacturing	8000
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
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THWN and XHHW Wire

Description: THWN is stranded copper conductor with PVC insulation and nylon jacket. XHHW is stranded copper conductor with cross linked polyethylene insulation. WIRE MUST BE MARKED.

Use: All single conductor applications.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
THWN	
<input type="checkbox"/> Southwire	_____
<input type="checkbox"/> Cerrwire	_____
<input type="checkbox"/> Superior Essex	_____
<input type="checkbox"/> General Cable (Anixter)	_____
<input type="checkbox"/> Carol	_____
<input type="checkbox"/> American Insulated Wire	_____
<input type="checkbox"/> _____	_____

XHHW	
<input type="checkbox"/> Rome Cable (Anixter)	_____
<input type="checkbox"/> General Cable (Anixter)	_____
<input type="checkbox"/> Southwire	_____
<input type="checkbox"/> Encore Wire	_____
<input type="checkbox"/> Service Wire Co	_____
<input type="checkbox"/> Kris Tech (KT) Wire	_____
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Underground Warning Tape

Description: Red polyethylene film, 6" wide, 4 mils thick. Printed with "CAUTION BURIED ELECTRIC LINE."

Use: Any conduits outside paved roadway shall be marked full-length with this tape 6 inches below surface.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Dottie	UT-29D
<input type="checkbox"/> Ideal	#42-151
<input type="checkbox"/> Reef Industries	Standard 250
<input type="checkbox"/> Cully	UG Burial Tape
<input type="checkbox"/> Harris	UT-29
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Weatherhead

Description: Water tight method for entering poles.

Use: Entering poles with cables.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL

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Wire Nut - Water Resistant

Description: Water resistant silicon gel-filled wire nut.

Use: Splicing cables, loops to shielded pairs.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Ideal	_____
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL

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Multi-Tap Connector

Description: Electrical splice materials

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL

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Bike Signal Assembly (4")

Description: 3-section 4" bicycle signal cluster with bicycle symbol.

Use: Near-side bicycle signal.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> ITEM Ltd.	Bike Buddy 4"
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL

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Blue LED Light

Description: Blue LED light with wide angle lense and standard mount.

Use: Bicycle detection confirmation light.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Wells Sign	The Informer
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL

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Cabinet Riser Frame

Description: Aluminum framework of 1/4" channel or 1/8" sheet stock, anodized. 1-piece welded construction for new installs, 2-piece for retrofits.

Use: Elevates cabinet 8" above foundation, providing additional work space. Spec requires building paper gasket between foundation and riser, and non-hardening water tight seal between riser and cabinet.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> McCain	M61036
<input type="checkbox"/> Safetran	_____
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL

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Control Cable

Description: Multi-conductor cable with assorted stranded copper No. 14 wires, No. 12, etc. Meet color code on Standard Drawings.

Use: Between cabinet and field devices, signals, push buttons, etc.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Rome (Anixter)	IMSA 20-1
<input type="checkbox"/> Belden (Anixter)	IMSA 20-1
<input type="checkbox"/> American (Anixter)	IMSA 20-1
<input type="checkbox"/> Advanced Digital Cable	IMSA 20-1
<input type="checkbox"/> Lake Cable (Anixter)	IMSA 20-1
<input type="checkbox"/> Falcon Fine Wire	IMSA 20-1
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Loop Feeder Cable

Description: Polyethylene jacketed shielded cable with 2-14 AWG wires and bare tinned copper drain wire, IMSA Spec. 50-2.

Use: Connects loop wires to cabinet.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
IMSA 50-2 14 AWG	
<input type="checkbox"/> Belden (Anixter)	_____
<input type="checkbox"/> General Cable (Anixter)	_____
<input type="checkbox"/> CSC (Southwest Wire)	_____
<input type="checkbox"/> Advanced Digital Cable	_____
<input type="checkbox"/> Lake Cable (Anixter)	_____
<input type="checkbox"/> Falcon Fine Wire	_____
<input type="checkbox"/> Rome (Anixter)	_____
<input type="checkbox"/> Omni Cable	_____
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Multi-conductor (2-Pair)

<input type="checkbox"/> _____	_____
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<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Loop - Preformed

Description: 4 turns OF #14 XHHW or #16 TFFN wire encased in either Sch. 40 PVC or rubber hydraulic hose totally filled with sealant.

Use: Thin pavement, poor pavement, or concrete bridge deck.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Never-Fail Loop Assy.	Model A or C
<input type="checkbox"/> De-Tech (Capital Enterprise)	Sealant filled hydraulic hose
<input type="checkbox"/> Reno	_____
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Loop Wire

Description: Stranded copper conductor, with crosslinked polyethylene insulation, 14 AWG. Encased in a polyethylene tube (sleeve). Wire and tube must be stamped with proper IMSA 51-7.

Use: Loop wire in a tube installed in the pavement, twist loop return pairs 4 to 6 turns per foot all the way from loop to junction box.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Kris Tech (KT) Wire	1419-XLP-TUBE P/N 1C14B19LOOP8
<input type="checkbox"/> Coleman/CCI Cable & Wire	P/N 06-24273
<input type="checkbox"/> Advance Digital Cable (ADC)	IMSA 51-7 w/PE tube
<input type="checkbox"/> R.J. Wire & Cable	IMSA 51-7 w/PE tube
<input type="checkbox"/> Clifford	IMSA 51-7 w/PE tube
<input type="checkbox"/> Rome(Anixter)	IMSA 51-7 w/PE tube
<input type="checkbox"/> Belden	IMSA 51-7 w/PE tube
<input type="checkbox"/> Lake Cable (Anixter)	IMSA 51-7 w/PE tube
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL

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SUBMIT SPECIFIED ITEM REJECTED

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Loop Sealant

Description: Rubberized asphalt material formulated as resistant yet flexible.

Use: Sealant in detector saw-cuts.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Crafc0	34271
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL

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SUBMIT SPECIFIED ITEM REJECTED

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Loop Backer-Rod (Hold Downs)

Description: Closed-cell polyurethane.

Use: Place 1" lengths every 12" along saw cuts and 6" from corners.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> SOF Rod	_____
<input type="checkbox"/> HBR XL	_____
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL

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SUBMIT SPECIFIED ITEM REJECTED

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Pedestrian Signal Housing

Description: Pole mounted ped signals. Cast aluminum enclosure, powder-coated inside and out. Stainless steel hardware. Polycarbonate not allowed.

Use: Ped crossings at signalized intersections.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> McCain	M31826, m32236
<input type="checkbox"/> Econolite	_____
<input type="checkbox"/> Eagle	_____
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
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DATE: _____	
<i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i>	

Pedestrian Signal Mount - Clamshell

Description: Reversible swing open cast aluminum clamshell compartment with water tight neoprene gasket and terminal block.

Use: Mounting bracket for ped signal on 4" posts.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> McCain	M28282 / M27164
<input type="checkbox"/> IDC	4805, 4835 (clamshell)
<input type="checkbox"/> Traffic Signal Hardware Inc.	Drawing No. 1004
<input type="checkbox"/> (GDM & Capitol Ent)	_____
<input type="checkbox"/> PEEK	4805
<input type="checkbox"/> Eagle	BK15608P001-13P
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
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Pedestrian LED Module

Description: Flange mount type countdown combination. Uniform appearance hand and person.

Use: LED module to illuminate ped signals.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Dialight	430-6479-001X
<input type="checkbox"/> GE	GTX PS7-CFF1-VLA
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
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Plumbizer

Description: Mast arm plumbizer with double rings.

Use: Attaches over mast arm tenon and supports the signal head from the top using Tri-Stud Adapter.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Traffic Signal Hardware	TSH0072
<input type="checkbox"/> McCain	M30652
<input type="checkbox"/> McCain	M45173
<input type="checkbox"/> Western Systems	7023060039

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Preemption Cable

Description: Opticom detector cable.

Use: Installed between detector and cabinet.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> GTT Opticom detector cable	138
<input type="checkbox"/> _____	_____

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Pushbutton

Description: Audible-tactile pushbutton station, control unit and mounting with sign assembly.

Use: Accessible pedestrian systems, bicycle push buttons, and RRFB installations.

Instructions: Order form shall be submitted for review of audio messages.

Brand / Manufacturer

Model / Part No.

Accessible Pedestrian System

- Polara Navigator 3-Wire System iN3 5 A N 1-B with iPHCU3W
- Polara Navigator 4-Wire System EN4 5 A N 1-B (Internal use only)
- Campbell AGPS (Internal use only)
- _____

Pushbutton Station for RRFB w/ 9" x 12" sign

- Polara XAV2E-LED with XAVCU2 control unit
- _____

Pushbutton for Bicycle Detection w/ 9" x 15" sign

- Polara Bulldog latching button BDL3 with PBCU
- _____

Pushbutton H-mount

- Campbell Co. H-1 (Internal use only)
- _____

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Rectangular Rapid Flashing Beacon (RRFB) System

Description: This item includes RRFB controller, controller cabinet, LED light bars, and solar panels (if applicable). Controller and cabinet must accommodate push button controller.

Use: RRFBs are user-actuated amber LEDs that supplement warning signs at unsignalized intersections or mid-block crosswalks. They can be activated by pedestrians manually by a push button.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Tapco	RRFB_XL AC Power
<input type="checkbox"/> Carmanah	SC 315 AC Power
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
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DATE: _____	
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Service Cabinet

Description: Pole and base mounted service cabinet without meter base. Includes circuit breakers, contactors, test switches, neutral and ground bars.

Use: Verify that size and circuit breakers submitted are as called for by plans.

Instructions: Shop drawing shall be submitted.

Brand / Manufacturer

Model / Part No.

Type US - Pole Mounted, 10" H x 7" W x 4" D, No Test Switch

- | | |
|--------------------------------|---------|
| <input type="checkbox"/> Fouch | Type US |
| <input type="checkbox"/> _____ | _____ |

Type A - Pole Mounted, 12" H x 8" W x 6" D , Test Switch

- | | |
|--------------------------------|--------|
| <input type="checkbox"/> Fouch | Type A |
| <input type="checkbox"/> _____ | _____ |

Type B - Pole Mounted, 24" H x 12" W x 8" D , Test Switch, Contactors

- | | |
|--------------------------------|--------|
| <input type="checkbox"/> Fouch | Type B |
| <input type="checkbox"/> _____ | _____ |

Type C - Base Mounted, 43" H x 16" W x 8 3/4" D , Test Switch, Contactors

- | | |
|--------------------------------|--------|
| <input type="checkbox"/> Fouch | Type C |
| <input type="checkbox"/> _____ | _____ |

Flasher Cabinet - Pole Mounted, 16" H x 10" W x 7" D

- | | |
|--|--------|
| <input type="checkbox"/> Fouch | SC1-FC |
| <input type="checkbox"/> Rhino Manufacturing | SC1-FC |
| <input type="checkbox"/> _____ | _____ |

INITIAL SUBMITTAL

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Span Wire Hanger

Description: A fitting of cast bronze that attaches to the messenger cable with 2 'U' bolts. A wire outlet body hangs from this with a clevis pin through adjustable slot. ALL fasteners shall be Type 304/316 stainless steel.

Use: Allows equipment to hang plumb from spanwire, provides cable entrance when wire installed with correct drip loop.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> McCain	_____
<input type="checkbox"/> Traffic Signal Hardware	Drawing No. 1003
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Span Wire / Messenger Cable

Description: Bare steel cable comprised of 7 strands of galvanized wire. Utilities grade 3/8" diameter 11,500 lbs break.

Use: Supports control cables, signal heads and signs on spanwire installation.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Cal-Wire	3/8 inch Utility Grade, Class A
<input type="checkbox"/> National Strand	3/8 inch Utility Grade, Class A
<input type="checkbox"/> Bekaert	3/8 inch Utility Grade, Class A
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Eyebolt, Turnbuckle, and Strandvise

Description: Hardware for attaching spans to strain poles. Hot dipped galvanized.

Use: Eyebolt and strandvise for messenger cable. Eyebolt, strandvise and turnbuckle for tether ('S' hook to be furnished by PBOT).

Instructions: 'S' hook to be furnished by PBOT.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
Eyebolt	
<input type="checkbox"/> Joslyn	J9512(E), J9514(E)
<input type="checkbox"/> _____	_____

Turnbuckle (with Jam Nuts)	
<input type="checkbox"/> Crosby	HG-226(1031314)
<input type="checkbox"/> _____	_____

Strandvise (1/4")	
<input type="checkbox"/> Maclean Power Systems	5100, 5200
<input type="checkbox"/> _____	_____

Strandvise (3/8")	
<input type="checkbox"/> Maclean Power Systems	5102
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

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Tether / Stabilizer Cable

Description: 1/4 inch galv. steel cable comprised of 7 strands of wire. A coating conforming to ASTM A 475.

Use: Attached at bottom of equipment to prevent wind movement.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> National Strand	1/4 inch, 7 strand Class A
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Tether Clamp

Description: Attaches to Tri-Stud Adapter on bottom of signal or sign. Is constructed of 1 1/2" galv. steel pipe or galv. metal conduit with plate welded on bottom. Tether wire keeper is bolted to plate. Galv. after fabrication. ALL fasteners shall be Type 304/316 stainless steel.

Use: Attaches equipment to 1/4 inch tether cable. Correct assembly is shown on Standard Drawings. Cable attaches UNDER keeper bolts.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> McCain	_____
<input type="checkbox"/> Eagle Precision	_____
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Tri-Stud Adapter

Description: Fitting of cast aluminum w/steel insert, powder coated as per spec. Three bolts, split washers, nylon insert lock-nuts of stainless steel, with 2 stainless backing washers, 72 serrations, 5 degree each.

Use: Used for attaching vehicle signal heads/signs to 1 1/2" conduit riser which is supported by a plumbizer or spanwire hanger.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Cost Cast Inc	Drwg. No. A-164
<input type="checkbox"/> Taylor Machine	Drwg. No. 10702 (12/22/98)
<input type="checkbox"/> Traffic Signal Hardware	Drawing No. 1003
<input type="checkbox"/> SS Machine Works	Drawing No. TCM37-2
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Vehicle Signal Adjustable Bracket

Description: Extruded aluminum assembly that is adjustable. Uses stainless steel cable to attach to arm.

Use: To attach vehicle signal to mast arm. Allows for signal height adjustment, and both top and bottom support.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Pelco	AS-0142 (for signs)
<input type="checkbox"/> Pelco	AB-0125 (for signals)
<input type="checkbox"/> Pelco	AS-0149 (for signals)
<input type="checkbox"/> Olson Sky Bracket	SS-SBC64-XX
<input type="checkbox"/> Olson Sky Bracket	SS-SBC64-SCB-XX
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><small>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</small></p>

Vehicle Signal Backplate

Description: Aluminum housing powder-coated black. Louvered. Paint not allowed. Attach with stainless steel screws and washers. Yellow reflective borders. Bike signals to have yellow backplates.

Use: Shield around vehicle signal for sky contrast.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> McCain	M17903, M17910
<input type="checkbox"/> Northwest Signal	1288E, 121212E, 12121212E, 5 cluster-E, 1212121212E
<input type="checkbox"/> Peek	400007
<input type="checkbox"/> Eagle / Brown	_____
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><small>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</small></p>

Vehicle Signal Housing

Description: Aluminum housing powder-coated black. The number of signal/beacon faces may vary. Fasteners to be type 304/316 stainless steel except for brass terminal screws. Polycarbonate not allowed. Bike signals to be yellow.

Use: Red, yellow, green signals and flashing beacons with balls, arrows, and bike signal faces.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> McCain	8" & 12"
<input type="checkbox"/> Peek	8" & 12"
<input type="checkbox"/> Traffic Control Technologies	Die Cast Aluminum
<input type="checkbox"/> Econolite	8" & 12"
<input type="checkbox"/> Eagle / Brown	8" & 12"
<input type="checkbox"/> McCain	3-section HAWK, M42482
<input type="checkbox"/> _____	_____

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Vehicle Signal Visor

Description: Powder-coated, black, aluminum, open at bottom (tunnel). Attaches to signal heads with stainless steel screws.

Use: All signal heads.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> McCain	M19263
<input type="checkbox"/> Peek	700027
<input type="checkbox"/> Eagle / Brown	A852307 XX
<input type="checkbox"/> _____	_____

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Vehicle Signal Louver

Description: Assembly of louver baffles layered at specific locations installed inside full circle visor, or powder-coated metal louver insert. GPL to include all baffles for viewing angle flexibility.

Use: Control viewing angle of signal face.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
Geometrically Programmed Louver (GPL)	
<input type="checkbox"/> Pelco	GL-1010
<input type="checkbox"/> _____	_____

Vane Style Louver

<input type="checkbox"/> Signal Control Products, Inc.	_____
<input type="checkbox"/> McCain	M19250
<input type="checkbox"/> McCain	M19326

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Vehicle Signal LED Modules - Red

Description: Flange mount style, 8" and 12" diameter, tinted lens.

Use: LED module to illuminate vehicle signals.

Brand / Manufacturer

Model / Part No.

12" Red Ball

- | | |
|-----------------------------------|------------------|
| <input type="checkbox"/> Dialight | 433-1210-003XL15 |
| <input type="checkbox"/> _____ | _____ |
| <input type="checkbox"/> _____ | _____ |

12" Red Arrow

- | | |
|-----------------------------------|-------------------|
| <input type="checkbox"/> Dialight | 432-1314-001XOD15 |
| <input type="checkbox"/> _____ | _____ |

8" Red Ball

- | | |
|-----------------------------------|------------------|
| <input type="checkbox"/> Dialight | 433-1110-003XL15 |
| <input type="checkbox"/> _____ | _____ |

12" Red Bike

- | | |
|-----------------------------------|-----------------|
| <input type="checkbox"/> Dialight | 433-1210-003XLB |
| <input type="checkbox"/> _____ | _____ |

8" Red Bike

- | | |
|-----------------------------------|-----------------|
| <input type="checkbox"/> Dialight | 433-1110-003XLB |
| <input type="checkbox"/> _____ | _____ |

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Vehicle Signal LED Modules - Yellow

Description: Flange mount style, 8" and 12" diameter, tinted lens.

Use: LED module to illuminate vehicle signals.

Brand / Manufacturer

Model / Part No.

12" Yellow Ball

- | | |
|-----------------------------------|------------------|
| <input type="checkbox"/> Dialight | 433-3230-901XL15 |
| <input type="checkbox"/> _____ | _____ |
| <input type="checkbox"/> _____ | _____ |

12" Yellow Arrow

- | | |
|-----------------------------------|-------------------|
| <input type="checkbox"/> Dialight | 431-3334-901XOD15 |
| <input type="checkbox"/> _____ | _____ |
| <input type="checkbox"/> _____ | _____ |

8" Yellow Ball

- | | |
|-----------------------------------|------------------|
| <input type="checkbox"/> Dialight | 433-3130-001XL15 |
| <input type="checkbox"/> _____ | _____ |
| <input type="checkbox"/> _____ | _____ |

12" Yellow Bike

- | | |
|-----------------------------------|-----------------|
| <input type="checkbox"/> Dialight | 433-3230-901XLB |
| <input type="checkbox"/> _____ | _____ |

8" Yellow Bike

- | | |
|-----------------------------------|-----------------|
| <input type="checkbox"/> Dialight | 433-3130-901XLB |
| <input type="checkbox"/> _____ | _____ |

INITIAL SUBMITTAL

NO EXCEPTION TAKEN REVISE & RESUBMIT

SUBMIT SPECIFIED ITEM REJECTED

MAKE CORRECTION NOTED

NAME: _____

DATE: _____

REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR

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Vehicle Signal LED Modules - Green

Description: Flange mount style, 8" and 12" diameter, tinted lens.

Use: LED module to illuminate vehicle signals.

Brand / Manufacturer

Model / Part No.

12" Green Ball

- | | |
|-----------------------------------|------------------|
| <input type="checkbox"/> Dialight | 433-2220-001XL15 |
| <input type="checkbox"/> _____ | _____ |
| <input type="checkbox"/> _____ | _____ |

12" Green Arrow

- | | |
|-----------------------------------|-------------------|
| <input type="checkbox"/> Dialight | 432-2324-001XOD15 |
| <input type="checkbox"/> _____ | _____ |
| <input type="checkbox"/> _____ | _____ |

8" Green Ball

- | | |
|-----------------------------------|------------------|
| <input type="checkbox"/> Dialight | 433-2120-001XL15 |
| <input type="checkbox"/> _____ | _____ |
| <input type="checkbox"/> _____ | _____ |

12" Green Bike

- | | |
|-----------------------------------|-----------------|
| <input type="checkbox"/> Dialight | 433-2220-001XLB |
| <input type="checkbox"/> _____ | _____ |

8" Green Bike

- | | |
|-----------------------------------|-----------------|
| <input type="checkbox"/> Dialight | 433-2120-001XLB |
| <input type="checkbox"/> _____ | _____ |

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Vehicle / Pedestrian Signal Cover

Description: Yellow pre-fabricated nylon "bag" with mesh insert and integral elastic bands and clips to secure. Legend should be "NOT IN SERVICE" or similar.

Use: Fully covers the entire signal head assembly including backplate when signal is turned off. Allows visibility of signals through mesh for testing.

Brand / Manufacturer

Model / Part No.

Vehicle Signal

- Freedom Roc
 - Traffic Sign & Signal Cover Concepts
 - _____
- Vehicle Cover - Yellow - PMI
- _____

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
NAME: _____	
DATE: _____	
REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR	

Pedestrian Signal

- Freedom Roc
 - Traffic Sign & Signal Cover Concepts
 - _____
- Ped Cover - Yellow - PMI
- _____

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
NAME: _____	
DATE: _____	
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Video Monitoring PTZ Camera System

Description: Video camera system with pan-tilt-zoom capability complete with power supply, mounts (wall mount, long WM07 and pole mount, thick PM02), and communications, control and power cabling.

Use: Video monitoring of traffic signal operations.

Brand / Manufacturer

Model / Part No.

- Siquira
 - _____
- PD910
- _____

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
NAME: _____	
DATE: _____	
REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR	

Sign - PTR (Part-Time Restriction)

Description: Flat black painted, aluminum alloy case with part-time legend, till lit. LED illuminated legend. These are custom signs.

Use: Restricted turn moves, light rail and railroad preemption.

Instructions: *Cut sheet of specific sign shall be submitted.*

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Wells Manufacturing	_____
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Sign Mounting Framework

Description: Auminum assembly for mounting signs on a mast arm pole. Includes adjustable brackets.

Use: To support aluminum signs on a mast arms.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
Tenon Mount Type "A"	
<input type="checkbox"/> EC Company	ECC 100
<input type="checkbox"/> GDM (Capitol Ent.)	Drawing No. 1020
<input type="checkbox"/> Eagle Precision	Bracket, Reflective Sign
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Bracket Mount Type "B"

<input type="checkbox"/> Pelco	AB-0144-A-L
	AB-0142-A-L
<input type="checkbox"/> Olson Sky Bracket	SS-SBC64-SBK-XXTKXX
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

School Zone Flasher

Description: This item includes school zone flasher controller, controller cabinet, pole mounts, cable harness, blue flasher, LED module, and solar panel (if applicable).

Use: Used with school speed zone signs to indicate that a 20 MPH speed limit is enforced within the school zone.

Brand / Manufacturer

Model / Part No.

Controller, Switches, Battery

- | | |
|--|---------------------------------|
| <input type="checkbox"/> Applied Information | 84598 (Time Switch Kit) |
| <input type="checkbox"/> Applied Information | 500-070B (Timer Switch, Solar) |
| <input type="checkbox"/> Applied Information | 67843 (Battery - 100 AH, Solar) |
| <input type="checkbox"/> Applied Information | 500-070 (Timer Switch, AC) |
| <input type="checkbox"/> _____ | _____ |

Controller Cabinet

- | | |
|-----------------------------------|--------------------------------|
| <input type="checkbox"/> Carmanah | 84531 (Aluminum Finish, Solar) |
| <input type="checkbox"/> Carmanah | 84569 (Aluminum Finish, AC) |
| <input type="checkbox"/> _____ | _____ |

Mounts

- | | |
|-----------------------------------|--|
| <input type="checkbox"/> Carmanah | 74454 (Top of Post Mount for Metal Pole) |
| <input type="checkbox"/> Carmanah | 82800 (Side of Pole Mount for Wood Pole) |
| <input type="checkbox"/> _____ | _____ |

Cable LED Harness

- | | |
|-----------------------------------|-----------------------------|
| <input type="checkbox"/> Carmanah | 84366 (12' Cable, AC/Solar) |
| <input type="checkbox"/> _____ | _____ |

Solar Panel

- | | |
|-----------------------------------|---------------------|
| <input type="checkbox"/> Carmanah | 74334 (80 W, Solar) |
| <input type="checkbox"/> _____ | _____ |

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School Zone Flasher (continued)

Description: This item includes school zone flasher controller, controller
Use: Used with school speed zone signs to indicate that a 20 MPH speed limit is enforced within the school zone.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
Blue Flasher	
<input type="checkbox"/> Carmanah	TT02-BL-12VDC
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

12" Yellow LED Module	
<input type="checkbox"/> Dialight	433-3230-900XL
<input type="checkbox"/> Dialight	433-3230-901XL15
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL

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REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR

Photoelectric Cell

Description: A photoelectronic relay device meeting specifications under 00970.

Use: Turning on and off luminaires.

Brand / Manufacturer

Model / Part No.

Photoelectric Cell

- | | |
|-------------------------------------|-----------|
| <input type="checkbox"/> Ripley | 6390LL-BK |
| <input type="checkbox"/> Intermatic | LED4536SC |
| <input type="checkbox"/> _____ | _____ |

INITIAL SUBMITTAL

- | | |
|--|--|
| <input type="checkbox"/> NO EXCEPTION TAKEN | <input type="checkbox"/> REVISE & RESUBMIT |
| <input type="checkbox"/> SUBMIT SPECIFIED ITEM | <input type="checkbox"/> REJECTED |
| <input type="checkbox"/> MAKE CORRECTION NOTED | |

NAME: _____

DATE: _____

REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR

Twist Lock Receptacle

- | | |
|-------------------------------------|-------|
| <input type="checkbox"/> Intermatic | K122 |
| <input type="checkbox"/> Ripley | 7927 |
| <input type="checkbox"/> Ripley | 7926 |
| <input type="checkbox"/> _____ | _____ |

INITIAL SUBMITTAL

- | | |
|--|--|
| <input type="checkbox"/> NO EXCEPTION TAKEN | <input type="checkbox"/> REVISE & RESUBMIT |
| <input type="checkbox"/> SUBMIT SPECIFIED ITEM | <input type="checkbox"/> REJECTED |
| <input type="checkbox"/> MAKE CORRECTION NOTED | |

NAME: _____

DATE: _____

REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR

Ornamental Luminaire

Description: All luminaires shall bear a UL label (or Oregon approved equivalent).

Light distribution shall be Type III unless otherwise indicated on plans.

Luminaire globe and LED module shall be thoroughly cleaned before installation.

Specifications under 00970 and 02920.

Use: To illuminate roadways and sidewalks.

Brand / Manufacturer

Model / Part No.

Twin Luminaire for Ornamental Pole

- | | |
|---|------------------------------------|
| <input type="checkbox"/> Amerlux (38W) | EDR-8306-HYAECOPAVI2S030700MT |
| <input type="checkbox"/> Amerlux Shield | HSS-AVI |
| <input type="checkbox"/> Spring City | ALMSLO-LE040/EVX/L2-30-CR4-YS29-CU |
| <input type="checkbox"/> _____ | _____ |

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Single Luminaire for Ornamental Pole

- | | |
|---|------------------------------------|
| <input type="checkbox"/> Amerlux (38W) | EDR-8306-HYAECOPAVI2S030700MS |
| <input type="checkbox"/> Amerlux Shield | HSS-AVI |
| <input type="checkbox"/> Spring City | ALMSLO-LE040/EVX/L2-30-CR4-YS19-CU |
| <input type="checkbox"/> _____ | _____ |

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Post Top Luminaires (Miscellaneous)

Description: All luminaires shall bear a UL label (or Oregon approved equivalent).

Luminaire shall be thoroughly cleaned before installation.

Specifications under 02926.

Use: To illuminate roadways and sidewalks.

Instructions: Shop drawing shall be submitted.

Active IDA Compliant Post Top Luminaires

4" tenon

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Spring City 'William & Mary'	ALM MMM-M8-EVX-2F2-FM3- YPLO-FED-CU-options
<input type="checkbox"/> Spring City 'Richmond'	ALMRCH-EVX-2F2-FM3-GPLO- FBR-CU-options
<input type="checkbox"/> Spring City 'Augusta'	ALMAGS-M20-EVX-2F2-FM3- GPLO-FPL-CU-options

Options: Color: Portland Green Historic Black (RAL9011) Silver (RAL9022)
 Wattage: 40W (standard) 20W
 Color Temp: 3000K (standard) 2700K
 SFZ4 adapter: yes no

INITIAL SUBMITTAL

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 SUBMIT SPECIFIED ITEM REJECTED
 MAKE CORRECTION NOTED

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2 7/8" tenon

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Spring City 'Yorktown'	ALMYRK-M10-EVX-2F2-FM3- YPLO-FBR-CU-options
<input type="checkbox"/> King Revolve	K427 P4FL340-7030-120:277V- 3K-WS-options

Options: Color: Bronze Black
 Wattage: 40W (standard) 20W
 Color Temp: 3000K (standard) 2700K

Options: Color: Bronze Black
 Photocontrol: Yes No
 Wattage Setting: _____

INITIAL SUBMITTAL

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Post Top Luminaires (Miscellaneous) continued

Internal Use Only

Town and Country - Small (local service streets) - 2 3/8"-2 7/8" tenon:

Brand / Manufacturer

Model / Part No.

- GE Lighting 'Town&Country' GE #EPTT-010-02B-A27-D-P-
<Color>-L-P-LSPRTT-021
Color: Bronze Black
- AEL 'American Revolution' 247L-P20-AS-27K-R3-AY-
<Color>-P7-SH-SS-TL-HSB-L03
Color: Bronze Black

INITIAL SUBMITTAL

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Town and Country - Large (arterials):

Brand / Manufacturer

Model / Part No.

- GE Lighting 'Salem' EPST-02-____ - ____ - B-30-D-A-
____-021
- AEL 'American Revolution' ARDCL-____ - ____-3K-R3-
DDB-NR-TL-SS

INITIAL SUBMITTAL

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Lumec Post top:

Brand / Manufacturer

Model / Part No.

- Lumec Z14 Z14-65W42LED4K-R-AC-RLE3-
120-SFZ4
- Lumec Z40 Z40-65W42LED4K-R-AC-RLE3-
120-SFZ4
Color: GN8TX (Green)

BKTX (Black)

- Amerlux retrofit for Lumec RF-AVI-U-SO-4L/COP NL
(retrofit for post 5/2000 fixtures)
- Amerlux retrofit for Lumec RF-AVI-U-SO-4L/COP OL
(retrofit for pre 5/2000 fixtures)
- Lumec EcoSwap 65W42LED4K-R (retrofit for post
5/2000 fixtures)
- _____

INITIAL SUBMITTAL

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Assorted Models:

Brand / Manufacturer

Model / Part No.

- AEL Contempo 245L-MVOLT-3K-RNA-BK-SD-
SS
- Hadco Contemporary CL32-P-H-L-N-2-A-N-W-32-A-N
(Black)
- _____
- _____

INITIAL SUBMITTAL

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DATE: _____

REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR

South Waterfront Luminaire & Lamps

Description: All luminaires shall bear a UL label (or Oregon approved equivalent).

Luminaire glassware, reflector and lamp shall be thoroughly cleaned before installation.

Specifications under 02920.

Use: To illuminate roadways and sidewalks.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Post Top / Twins	Hadco #C13127B (33W LED) FAWS=2
<input type="checkbox"/> Corner Light	Gardco #CA22L-32L-350-WW-G2-AR3-4-UNV-MGY (37W LED)
<input type="checkbox"/> Canopy Light	Hadco #C14605 - MGY-ZS312A15
<input type="checkbox"/> Finial Light	RAB Lighting #VX100DG - GL100B
<input type="checkbox"/> Finial Light Bulb	Sunlite Blue LED Light Bulb #81080-SU
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL

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SUBMIT SPECIFIED ITEM REJECTED

MAKE CORRECTION NOTED

NAME: _____

DATE: _____

REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR

South Auditorium Luminaire & Lamps

Description: All luminaires shall bear a UL label (or Oregon approved equivalent).

Light distribution shall be indicated on plans.

Luminaire glassware, reflector and lamp shall be thoroughly cleaned before installation.

Use: To illuminate roadways and sidewalks.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Post Top LED Globe Type IV	King KG22-SAPD-IV-50(SSL)-5000-120-K48
<input type="checkbox"/> Post Top LED Globe Type V	King KG22-SAPD-V-50(SSL)-5000-120-K48
<input type="checkbox"/> Mast Arm (85W QL)	Holophane GH85QL -122ASU402B
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL

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SUBMIT SPECIFIED ITEM REJECTED

MAKE CORRECTION NOTED

NAME: _____

DATE: _____

REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR

LED Cobrahead Luminaire

Description: All luminaires shall bear a UL label (or Oregon approved Size of luminaire, number of LEDs, voltage, and light distribution shall be determined by photometric analysis or to match lumen output and distribution type indicated.

External Housing shall be rated for 'wet' conditions; Optical chamber to be IP66 rated.

Light distribution and lumen output shall be as indicated on plans.

Back light shields are standard in residential applications.

Use 3000K for arterials, and 2700K in neighborhoods.

Luminaire shall be thoroughly cleaned before installation.

Use: To illuminate roadways, bikeways, and sidewalks.

Instructions: Shop drawing shall be submitted.

ARTERIAL STREETSBrand / ManufacturerModel / Part No.**LEOTEK**

- Green Cobra Jr. GCJ - H series Provide spec sheet
 required options: PCR7-WL-4B-DSC
 Shields: HSSGCJ (house side, residential areas)
- Green Cobra GCM - H Series Provide spec sheet
 required options: PCR7-WL-4B-DSC
 Shields: HSSGCM (house side, residential areas)
- Green Cobra GCL - G series Provide spec sheet
 required options: PCR7-WL-4B-DSC
 Shields: HSSGCL (house side, residential areas)

CREE

- RSW - Small Provide spec sheet
 required options: SS - Q-dial setting _____
 Shields: BLSS (back light, residential areas)
- RSW - Medium Provide spec sheet
 required options: SS - Q-dial setting _____
 Shields: BLSS (back light, residential areas)
- RSW - Large Provide spec sheet
 required options: 4BLT - SS - Q-dial setting _____
 Shields: BLSS (back light, residential areas)
- RSW - Extra Large Provide spec sheet
 required options: 4-BLT - SS - Q-dial setting _____
 Shields: BLSS (back light, residential areas)

INITIAL SUBMITTAL

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REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR

LED Cobrahead Luminaire continued

LOCAL SERVICE STREETS

Brand / Manufacturer

Model / Part No.

LEOTEK

ComfortView

CV1-H-MV-27K-2R-GY-025-PCR7-WL-4B-HSSCV

options: VHCS 80 Degree Cutoff Shield
 CSSCV Cul-de-sac Shield

* note VHCS and CSSCV may be stacked with HSSCV

CREE

RSW - Small

RSWS-A-HT-2LG-3L-27K8-UL-GY-N-Q3 -BLSS

options: FLSS - Front Light Shield (narrow streets only)
* note BLSS and FLSS may be stacked

CLSS - Cul-de-sac Shield

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Ethernet Switch

Description: External Ethernet switch. Provide two single-mode
Use: Communication between field equipment and central system.

Brand / Manufacturer

Model / Part No.

Fiber Optic Switch

Siemens/Ruggedcom

RS900G

VDSL Switch

Siemens/Ruggedcom

RSL910

SFP transceivers

Aggregate Switch

Siemens/Ruggedcom

RSG2200

Siemens/Ruggedcom

RSG2488

Field Router

Siemens Ruggedcom

RX1501

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Project Name: _____

Project Number: _____

Ethernet Cable - CAT6

Description: Outdoor rated, solid 23 AWG, shielded.

Use: Video systems, radar systems, RRFB push button wiring, and central communications.

Brand / Manufacturer

Model / Part No.

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Fiber Optic Cable

Description: Outdoor rated, dielectric, loose tube, single-mode (OS2, ITU G.652.D)

Use: Communication between field equipment and central system.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Fiber Optic Patch Panel

Description: 19-inch, 1U, flush mount, 6-port (12 fiber) single-mode duplex LC/UPC per bulkhead.

Use: Fiber termination in cabinet.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Fiber Optic Splice Closure

Description: Outdoor rated, 96 individual fusion splice capacity, dome-style, suitable for aerial and underground installation.

Use: Aerial and underground fiber splice.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Interconnect Cable

Description: Shall comply with REA spec, polyethylene jacket. Shielded cable containing 6+ twisted pairs of 22 AWG solid individual conductors.

Use: Installed between signal controllers without splices. Is lashed to 3/8" messenger cable on overhead installations.

Brand / Manufacturer Model / Part No.

PE-22 Cable - overhead, air-core

- | | |
|--|---------|
| <input type="checkbox"/> Superior Essex | Sealpic |
| <input type="checkbox"/> General Cable (Anixter) | 7527757 |
| <input type="checkbox"/> Houston Wire | HW350 |
| <input type="checkbox"/> _____ | _____ |

PE-39 Cable - underground, gel-fill

- | | |
|--|--------------|
| <input type="checkbox"/> Superior Essex | Sealpic-F |
| <input type="checkbox"/> Clifford | 6P19-B1-BJFA |
| <input type="checkbox"/> General Cable (Anixter) | 7524507 |
| <input type="checkbox"/> Houston Wire | HW352 |
| <input type="checkbox"/> Omni Cable | RUS PE-39 |
| <input type="checkbox"/> _____ | _____ |

Wireless Communication System

Description: Wireless radio and integrated antenna system including P.O.E. adapter and lightning arrestor.

Use: Wireless communications between radio and antenna.

Brand / Manufacturer Model / Part No.

Radio with integrated antenna

- | | |
|-----------------------------------|-------------------|
| <input type="checkbox"/> Encom | E-Lite 5.8 Series |
| <input type="checkbox"/> Intuicom | Nitro58n |
| <input type="checkbox"/> _____ | _____ |

Radio/Antenna Mount

- | | |
|--------------------------------|---------------|
| <input type="checkbox"/> Pelco | AB-3009-SS-84 |
| <input type="checkbox"/> _____ | _____ |

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Single Mast Arm Pole

Description: Steel single mast arm pole with round or 8-sided cross-section and recessed terminal cabinet.

Use: For mounting signal equipment and signs overhead.

Instructions: Shop drawing shall be submitted for review of pole details.

<u>Brand / Manufacturer</u>	<u>Mast Arm Length(s)</u>
<input type="checkbox"/> Ameron	_____
<input type="checkbox"/> Valmont Industries, Inc.	_____
<input type="checkbox"/> West Utility Telecom Inc.	_____

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Combination Mast Arm Pole

Description: Steel single mast arm pole with round or 8-sided cross-section, recessed terminal cabinet, and luminaire arm.

Use: For mounting signal equipment and signs overhead, and street lighting.

Instructions: Shop drawing shall be submitted for review of pole details.

<u>Brand / Manufacturer</u>	<u>Mast Arm Length(s)</u>
<input type="checkbox"/> Ameron	_____
<input type="checkbox"/> Valmont Industries, Inc.	_____
<input type="checkbox"/> West Utility Telecom Inc.	_____

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Dual Mast Arm Pole

Description: Steel dual mast arm pole with round cross-section, recessed terminal cabinet, with or without luminaire arm.

Use: For mounting signal equipment and signs overhead for multiple approaches, and street lighting.

Instructions: Shop drawing shall be submitted for review of pole details.

<u>Brand / Manufacturer</u>	<u>Mast Arm Length(s)</u>
<input type="checkbox"/> Ameron	_____
<input type="checkbox"/> Valmont Industries, Inc.	_____
<input type="checkbox"/> West Utility Telecom Inc.	_____

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Strain Pole

Description: Steel strain pole with round or 8-sided cross-section.

Use: For mounting signal equipment and signs overhead with spanwire.

Instructions: Shop drawing shall be submitted for review of pole details.

<u>Brand / Manufacturer</u>	<u>Pole Length(s)</u>
<input type="checkbox"/> Type 1	_____
<input type="checkbox"/> Type 2	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Pedestal (Small) - Pedestrian Pipe Post

Description: 4 inch dia. galv. steel pipe mounted on a cast aluminum or galv. cast iron base. Cap and hand hole cover material per Specs.

Use: Freestanding pole for mounting of pedestrian signals and pushbuttons.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Pelco	Base: PB5336, PB5334
<input type="checkbox"/> Pelco	Anchor: PB5306
<input type="checkbox"/> Akron Foundry Co.	Base: TS-1000
<input type="checkbox"/> Component Products	Base: CPI-BAS-1
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Pedestal (Large) - Vehicle Signal

Description: Galvanized steel post with welded base plate bolted to a cast aluminum or galvanized cast iron transformer base.

Use: Freestanding pole for mounting vehicle signals and other equipment. Frangible base pole.

Instructions: Shop drawing shall be submitted for tapered poles.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Akron Foundry	TB1-17
<input type="checkbox"/> Akron Foundry	TB3-17
<input type="checkbox"/> Akron Foundry	TB1-20 (Internal use only)
<input type="checkbox"/> Pelco	PB-5517
<input type="checkbox"/> _____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Aluminum Illumination Pole

Description: Aluminum alloy cobrahead street light pole with round cross section, tapered tubing.

Use: For mounting cobrahead street lights for roadway lighting.

Instructions: Shop drawing shall be submitted for review of pole details.

<u>Brand / Manufacturer</u>	<u>Model/Part Number</u>
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> Mounting Height(s):	_____
<input type="checkbox"/> Luminaire Arm Length(s):	_____

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Steel Illumination Pole

Description: Steel cobrahead street light pole with round cross section,

Use: For mounting cobrahead street lights for roadway lighting.

Instructions: Shop drawing shall be submitted for review of pole details.

<u>Brand / Manufacturer</u>	<u>Model/Part Number</u>
<input type="checkbox"/> Valmont	DS-32 series
<input type="checkbox"/> Ameron	City of Portland "N" series
<input type="checkbox"/> Union Metal	71049-B36 series
<input type="checkbox"/> Mounting Height(s):	_____
<input type="checkbox"/> Luminaire Arm Length(s):	_____

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Twin Ornamental Street Light Pole

Description: Ornamental-style pedestrian scale street light pole with two luminaires.

Use: Mounting pedestrian scale luminaires for roadway lighting.

Instructions: Shop drawing shall be submitted for review of pole details.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Visco	VI-C-C2-F
<input type="checkbox"/> Spring City Electrical Mfg. Co.	_____
<input type="checkbox"/> Continental Pole and Lighting, LLC	_____
<input type="checkbox"/> Olympic Foundry	castings only

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Single Ornamental Street Light Pole

Description: Ornamental-style pedestrian scale street light pole with one luminaire.

Use: Mounting pedestrian scale luminaires for roadway lighting.

Instructions: Shop drawing shall be submitted for review of pole details.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Visco	VI-A-F
<input type="checkbox"/> Spring City Electrical Mfg. Co.	_____
<input type="checkbox"/> Continental Pole and Lighting, LLC	_____
<input type="checkbox"/> Olympic Foundry	castings only

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION</i></p>
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Bottleneck Street Light Pole

Description: Smooth-wall, tapered, round street light pole.

Use: Mounting pedestrian scale luminaire for roadway lighting and/or rectangular rapid flashing beacon equipment.

Instructions: Shop drawing shall be submitted for review of pole details.

<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/> Valmont - aluminum	S Avenue Series 50 Anchor Base Light Pole
<input type="checkbox"/> Valmont - steel	S Avenue Series 50 Anchor Base Light Pole with modifications per Std. Dwg. P-641

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

South Waterfront Steel Combination Pole

Description:

Use:

	<u>Brand / Manufacturer</u>	<u>Model / Part No.</u>
<input type="checkbox"/>	_____	_____
<input type="checkbox"/>	_____	_____
<input type="checkbox"/>	_____	_____

<p>INITIAL SUBMITTAL</p> <p><input type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> REVISE & RESUBMIT</p> <p><input type="checkbox"/> SUBMIT SPECIFIED ITEM <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> MAKE CORRECTION NOTED</p> <p>NAME: _____</p> <p>DATE: _____</p> <p><i>REVIEW IS IN ACCORDANCE WITH SECTION 00150.35 OF THE STANDARD CONSTRUCTION SPECIFICATIONS OF THE CITY OF PORTLAND, OR</i></p>

Wood Poles

Description: Class 4, machine-shaved Douglas fir. Treated.
Use: For mounting speed reader boards, school zone flashers, and cobrahead luminaires for roadway lighting. Also used for attaching overhead runs of communication.

<u>Manufacturer</u>	<u>Pole Length(s)</u>
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

Pole Caps

Description:
Use:

<u>Brand/Manufacturer</u>	<u>Model/Part Number</u>
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

Luminaire Arms

Description: Galvanized, self-supporting, steel, tapered luminaire arm.
Use: For mounting cobrahead luminaires for roadway lighting.
Note: *Wind rods required for luminaire arms 12 feet or longer.*

<u>Manufacturer</u>	<u>Luminaire Arm Length(s)</u>
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

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Pole Coating

Description: Structures coatings per 00962.48

Use: For coating metal signal and street lighting poles.

<u>Brand/Manufacturer</u>	<u>Paint Code</u>
<input type="checkbox"/> Wasser	Primer, MC-Ferrox B
<input type="checkbox"/> Wasser	Transit Blue, MC-Luster W211.0233
<input type="checkbox"/> Wasser	Historic Black, MC-Luster W211.79
<input type="checkbox"/> Wasser	Portland Green, MC-Luster W211.0227
<input type="checkbox"/> Wasser	Gold, MC-Luster W211.0226
<input type="checkbox"/> Wasser	Cascade Green, MC-Luster W211.0225
<input type="checkbox"/> Wasser	Chinatown Red, MC-Luster W211.0261
<input type="checkbox"/> Wasser	Silver, MC-Luster W211.82
<input type="checkbox"/> Wasser	Transit Dark Mall Silver, MC- Luster W211.8002
<input type="checkbox"/> Wasser	Signal Bronze, MC-Luster W211.0298
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

INITIAL SUBMITTAL	
<input type="checkbox"/> NO EXCEPTION TAKEN	<input type="checkbox"/> REVISE & RESUBMIT
<input type="checkbox"/> SUBMIT SPECIFIED ITEM	<input type="checkbox"/> REJECTED
<input type="checkbox"/> MAKE CORRECTION NOTED	
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DATE: _____	
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Blank Form

Instructions: Contractor to fill out this template for ALL equipment items that are not currently listed on the Table of Contents page.

Item: _____

Description: _____

Use: _____

Brand / Manufacturer

Model / Part No.

Item: _____

Description: _____

Use: _____

Brand / Manufacturer

Model / Part No.

Item: _____

Description: _____

Use: _____

Brand / Manufacturer

Model / Part No.

Item: _____

Description: _____

Use: _____

Brand / Manufacturer

Model / Part No.

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