

# BLUE SHEETS

## SUBMITTALS FOR FIELD QUALIFICATION ELECTRICAL EQUIPMENT AND MATERIALS

PROJECT MANAGER: \_\_\_\_\_

PROJECT: \_\_\_\_\_

HIGHWAY: \_\_\_\_\_

COUNTY: \_\_\_\_\_

CONTRACT NO.: \_\_\_\_\_

SUBMITTING  
CONTRACTOR: \_\_\_\_\_

DATE SUBMITTED: \_\_\_\_\_

CONTRACTOR  
REPRESENTATIVE: \_\_\_\_\_

PHONE: \_\_\_\_\_

REVISED April 12, 2012

## 'BLUE SHEET' INSTRUCTIONS

These sheets are to be furnished for each project, by the Project Managers office. They are found on ODOT's Internet site @ <http://www.oregon.gov/ODOT/HWY/TS/signals.shtml> They should be down-loaded for each project, to insure that they are the most current copy.

These sheets will be accepted as equipment list in accordance with 00960.02 of the Standard Specifications.

### INITIAL SUBMITTAL

#### The Contractor will:

1. Submit **two** copies of the Blue Sheets
2. Submit appropriate Certificate of Materials Origins (CMO) form 734-2126 as required
3. Fill out the Blue Sheets based on the projects requirements
  - a. In the **CONTENTS** pages check the box for all items that are "**NOT ON PROJECT**". **This removes the need to submit the materials page(s) for these items.**
  - b. For materials that are on the project:
    - i. Check the listed brand and circle the model to be used if more than one is listed, or
    - ii. Write in a brand and model proposed for installation based on the project plans and specifications. Submit one catalogue cut sheet for initial qualification.
    - iii. Except for conduit and wire, do not mark more than **two** options per item

#### The Inspector will:

1. Review initial submittal and fill out the **INITIAL SUBMITTAL** box in the CONTENTS pages and specific materials pages for listed materials.
2. Submit write in products to the Traffic Signal Engineer for approval. Call 503-986-3596/fax 503-986-3749 to submit cut sheet of the material.
3. Return one copy of the Blue Sheets to the Contractor

### CONSTRUCTION

Materials delivered to job site shall be **clearly marked** as to brand and model/part description (verified on materials), or shall be accompanied by supplier's certification as to brand and model/part description (copy attached).

#### The Contractor will:

1. Install materials QUALIFIED by the Inspector during the INITIAL SUBMITTAL. Install per plan and specification.
2. The required CMO's will be submitted prior to the materials being installed.

#### The Inspector will:

1. Verify materials installed match the Contractors INITIAL SUBMITTAL. Verify the materials are installed per plan and specification.
2. Fill out the INSPECTED & ACCEPTED ON PROJECT box for each specific materials page.
3. Send a final copy to Traffic Engineering Operations Section after construction.

### OTHER

The contractor shall continue to submit **6 copies** of the following according to 00960.02: Mast Arm Poles and Arms, Strain Poles, Luminaire Extensions, Luminaires, Railroad Preemption Signs, etc. In addition use the **Green Sheets** for conditionally qualified control equipment.

# CONTENTS

**PAGE NO.**

**COMMON ELECTRICAL**

**NOT ON PROJECT**

- 7. BOND WIRES
- 8. BONDED BUSHINGS
- 9. CABLE TIES
- 10. CONDUIT (METALLIC)
- 11. CONDUIT (NON-METALLIC)
- 12. CONDUIT BUSHINGS
- 13. CONDUIT HUB & CONDULET
- 14. CONDUIT PLUG
- 15. EXPANSION FITTING
- 16. GROUND ROD & CLAMP
- 17. JUNCTION BOXES (CAST IRON)
- 18. JUNCTION BOXES (CONCRETE)
- 19. JUNCTION BOXES (HYBRID)
- 20. TERMINAL BLOCKS
- 21. THWN WIRE
- 22. UNDERGROUND WARNING TAPE
- 23. XTRA BLANK FORM

<p><b><u>INITIAL SUBMITTAL</u></b></p> <p><input type="checkbox"/> AGREE WITH "NOT ON PROJECT"</p> <p><input type="checkbox"/> RETURNED FOR CORRECTION</p> <p>Date: _____</p> <p>Name: _____</p> <p>CTSI Card# _____</p> <p>Qualifications or corrections are subject to all requirements of the current issue of the Standard Specifications for Highway Construction as modified by the Project Special Provisions.</p>
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# CONTENTS CONT'

**PAGE NO.**

**TRAFFIC SIGNAL SPECIFIC**

**NOT ON PROJECT**

- 24. ALUMINUM SIGN BRACKET
- 25. BACKPLATES
- 26. CONTROL CABLE
- 27. EYEBOLT, TURNBUCKEL, STRANDWISE
- 28. INTERCONNECT CABLE
- 29. LED MODULES (12" RED)
- 30. LED MODULES (12" YELLOW)
- 31. LED MODULES (12" GREEN)
- 32. LED MODULES (8" R, Y, G)
- 33. LED MODULES (PEDESTRIAN)
- 34. LOOP FEEDER CABLE
- 35. LOOP SPLICE
- 36. LOOP WIRE (XHHW/DUCT)
- 37. MESSENGER CABLE
- 38. METER BASE
- 39. PEDESTAL (PEDESTRIAN SIGNAL)
- 40. PEDESTAL (VEHICLE SIGNAL)
- 41. PEDESTRIAN SIGNAL
- 42. PEDESTRIAN SIGNAL MOUNT
- 43. PREFORMED LOOPS
- 44. PTR SIGNS
- 45. PUSH-BUTTON
- 46. RISER FRAMES
- 47. SERVICE CABINET/REMOTE POST
- 48. SIGNAL HEAD COVERS
- 49. SPANWIRE HANGER
- 50. TERMINAL CABINET
- 51. TETHER & STABILIZER CABLE
- 52. TETHER CLAMP
- 53. TRI-STUD ADAPTERS
- 54. VEHICLE SIGNAL BRACKET (ADJ.)
- 55. VEHICLE SIGNAL VISOR
- 56. VEHICLE SIGNALS

**INITIAL SUBMITTAL**

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**CONTENTS CONT'**

**PAGE NO.**

**ILLUMINATION SPECIFIC**

57. PHOTOELECTRIC CELL

**NOT ON  
PROJECT**

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# CONTENTS CONT'

PAGE NO.

ITS SPECIFIC

58. (Use XTRA BLANK FORM pp23)

NOT ON  
PROJECT

INITIAL SUBMITTAL

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**BLUE SHEETS**

**CONDUIT (NON-METALLIC)**

**DESCRIPTION:** PVC, High Density Polyethylene, and Fiberglass rigid non-metallic conduit and fittings.

**USE:** Houses electrical conductors.

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**PVC (UL 651)**

- PW Pipe Sch. 40 & 80
- Carlon Sch. 40 & 80
- Cantex Sch. 40
- J-M Manufacturing Sch. 40 & 80
- Kraloy Sch. 40
- Ipex/Scepter Sch. 40
- Cresline Northwest Sch. 40
- Ridgeline Sch. 40
- Heritage Plastics Central Sch. 40
- \_\_\_\_\_

**HDPE (UL 651B)**

- Carlon Sch. 40 & 80
- Arnco/Dura-Line Sch. 40 & 80
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**FIBERGLASS (UL 1684)**

- Champion Fiberglass Sch. 40 & 80  
(UL 1684 listed)
- FRE Composites Sch. 40 & 80  
(UL 1684 listed)
- United Fiberglass of America Sch. 40 & 80  
(UL 1684 listed)
- \_\_\_\_\_
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**INITIAL SUBMITTAL**

- QUALIFIED**
- QUALIFIED AS NOTED**
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**INSPECTED & ACCEPTED ON PROJECT**

Date: \_\_\_\_\_

Name: \_\_\_\_\_

CTSI Card# \_\_\_\_\_

- Verified Materials By Markings/Packaging**  
Quantity accepted \_\_\_\_\_  
Quantity rejected \_\_\_\_\_
- Materials Accompanied By Manufacturer's or Supplier's Certification (Copy attached)**  
Quantity accepted \_\_\_\_\_  
Quantity rejected \_\_\_\_\_







**EXPANSION FITTING**

**DESCRIPTION:** A fitting that shall be weatherproof, malleable iron. With a hot-dip galvanized finish. Providing expansion for galvanized Conduit and still maintaining a bond, internally or with an external Jumper.

**USE:** To provide for conduit expansion movement when crossing Expansion joints in/on structures and between fixed enclosures.

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**EXPANSION ONLY**

- O-Z/GEDNEY Type AX & AX8  
Bond jumper:  
Type BJ
- O-Z/GEDNEY Type AXB & AXB8
- Crouse-Hinds Type XJG
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
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- \_\_\_\_\_

**EXPANSION / DEFLECTION**

- \_\_\_\_\_
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**CMO REQUIRED (If steel or iron, see specifications)**

- Received Date: \_\_\_\_\_

**BLUE SHEETS**

**GROUND ROD & CLAMP**

**DESCRIPTION:** Copper coated 5/8 inch metal rod, 8 feet to 10 feet long w/clamp

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

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**GROUND ROD**

- Thomas & Betts (Blackburn) 6258
- Eritech 615880
- PP Porcelain Products 8438
- Petron Pacific 5/8"
- Hubbell/Chance C615855
- \_\_\_\_\_
- \_\_\_\_\_

**CLAMP**

- Thomas & Betts (Blackburn) JAB58H
- Burndy GRC58
- PENN-UNION CAB or CEB
- PP Porcelain Products 8058
- Eritech HDC58
- \_\_\_\_\_
- \_\_\_\_\_
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**CHEMICAL GROUND SYSTEM**

- Tessco n/a
- Superior Grounding Systems n/a
- Erico n/a
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
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**CMO REQUIRED (If steel or iron, see specifications)**

- Received Date: \_\_\_\_\_



**BLUE SHEETS**

**JUNCTION BOX (CONCRETE)**

**DESCRIPTION:** Open-bottom boxes of pre-cast reinforced concrete w/Brass or stainless steel fasteners. Polymer conc also.

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**JB-1**

- ARMORCAST A6001425TA
- Christy Concrete/Oldcastle 36-1017PB  
(DPF or HBBOA lid)
- CDR SA20101512
- Carson Industries H1118-12 w/  
H1118-P1 lid
- Quazite PG1118BA12 w/  
PG1118HA lid
- BES Concrete C9E w/C9T lid
- Brooks Products 36PB w/ concrete,  
galv cast iron, or galv  
steel lid
- Newbasis PCA111812A5
- Christy Concrete/Oldcastle N9 w/ SYN09-T lid

**JB-2**

- ARMORCAST A6001946TAPCX12
- Christy Concrete/Oldcastle 37-1220PB,  
38-1324PB  
(DPF or HBBOA lid)
- CDR SA20132412
- Carson Industries H1324-12 w/  
H1324-P1 lid
- BES Concrete C16E w/C16T lid,
- Brooks Products 40PB w/galv cast iron  
or galv steel lid
- Newbasis PCA132412A5
- Quazite PG1324BA12 w/  
PG1324HA lid
- Christy Concrete/Oldcastle N30 w/ HBBOA lid

**JB-3**

- ARMORCAST A6001640TAPCX12
- Christy Concrete/Oldcastle 66-1730PB  
(DPF or HBBOA lid)
- CDR SA20173012
- Carson Industries H1730-12 w/  
H1730-P1 lid
- Quazite PG1730BA12 w/  
PG1730HA lid
- Brooks Products 66PB w/ galv steel lid
- Newbasis PCA173012A541
- BES Concrete C30 w/ C30T lid
- Christy Concrete/Oldcastle B36 w/ HBBOA lid

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Quantity accepted \_\_\_\_\_  
Quantity rejected \_\_\_\_\_

**CMO REQUIRED (If steel or iron, see specifications)**

Received Date: \_\_\_\_\_

**BLUE SHEETS**  
**JUNCTION BOX (HYBRID)**

**DESCRIPTION:** Open-bottom boxes made of polymer, fiberglass, and/or polymer concrete.

**USE:** Pull box for 120V AC conduit runs. Junction box for DC conduit runs. (splices to loop feeder cable).

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**JB-1**

- Christy Concrete/Oldcastle      Box - S1118B12AA  
Lid - S1118HBBOA
- Synertech      Box - S1118B12FA  
Lid - S1118HBBOA01
- \_\_\_\_\_
- \_\_\_\_\_

**JB-2**

- Christy Concrete/Oldcastle      Box - S1324B12AA  
Lid - S1324HBBOA
- Synertech      Box - S1324B12FA  
Lid - S1324HBBOA01
- \_\_\_\_\_
- \_\_\_\_\_

**JB-3**

- Christy Concrete/Oldcastle      Box - S1730B12AA  
Lid - S1730HBBOA
- Synertech      Box - S1730B12FA  
Lid - S1730HBBOA01
- \_\_\_\_\_
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**INITIAL SUBMITTAL**

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Date: \_\_\_\_\_

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CTSI Card# \_\_\_\_\_

**Verified Materials By Markings/Packaging**  
Quantity accepted \_\_\_\_\_  
Quantity rejected \_\_\_\_\_

**Materials Accompanied By Manufacturer's or Supplier's Certification (Copy attached)**  
Quantity accepted \_\_\_\_\_  
Quantity rejected \_\_\_\_\_



**BLUE SHEETS**  
**THWN & XHHW WIRE**

**DESCRIPTION:** THWN is stranded copper conductor with PVC insulation and nylon jacket. XHHW is stranded copper conductor with cross linked polyethylene insulation.

USE: All single conductor applications

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**THWN**

- |  |            |
|--|------------|
| <input type="checkbox"/> Southwire               | WIRE       |
| <input type="checkbox"/> Cerrowire               |            |
| <input type="checkbox"/> Cerrowire               | MUST       |
| <input type="checkbox"/> Superior Essex          |            |
| <input type="checkbox"/> General Cable (Anixter) | BE         |
| <input type="checkbox"/> Carol                   |            |
| <input type="checkbox"/> American Insulated Wire | MARKED     |
| <input type="checkbox"/> _____                   |            |
| <input type="checkbox"/> _____                   | ADDITIONAL |
| <input type="checkbox"/> _____                   |            |
| <input type="checkbox"/> _____                   | MARKINGS   |
| <input type="checkbox"/> _____                   |            |
| <input type="checkbox"/> _____                   | ARE        |
| <input type="checkbox"/> _____                   |            |
| <input type="checkbox"/> _____                   | ALLOWED    |
| <input type="checkbox"/> _____                   |            |

**XHHW**

- |  |            |
|--|------------|
| <input type="checkbox"/> Rome Cable (Anixter)    | WIRE       |
| <input type="checkbox"/> General Cable (Anixter) |            |
| <input type="checkbox"/> Southwire               | MUST       |
| <input type="checkbox"/> Encore Wire             |            |
| <input type="checkbox"/> Service Wire Co         | BE         |
| <input type="checkbox"/> Kris Tech (KT) Wire     |            |
| <input type="checkbox"/> _____                   | MARKED     |
| <input type="checkbox"/> _____                   |            |
| <input type="checkbox"/> _____                   | ADDITIONAL |
| <input type="checkbox"/> _____                   |            |
| <input type="checkbox"/> _____                   | MARKINGS   |
| <input type="checkbox"/> _____                   |            |
| <input type="checkbox"/> _____                   | ARE        |
| <input type="checkbox"/> _____                   |            |
| <input type="checkbox"/> _____                   | ALLOWED    |
| <input type="checkbox"/> _____                   |            |
| <input type="checkbox"/> _____                   |            |
| <input type="checkbox"/> _____                   |            |

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Quantity rejected \_\_\_\_\_

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or Supplier's Certification (Copy attached)  
Quantity accepted \_\_\_\_\_  
Quantity rejected \_\_\_\_\_





**ALUMINUM SIGN MOUNTING FRAMEWORK**

**DESCRIPTION:** An aluminum assembly for mounting signs on a mast arm pole. Includes adjustable brackets.

**USE:** To support aluminum signs on a mast arms.

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**Tenon Mount type "A"**

- EC Company ECC 100
- GDM (Capitol Ent.) Drawing No. 1020
- Sundown Electric Co. 100A, 100B
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Bracket Mount type "B"**

- Pelco AB-0144-A-L  
AB-0142-A-L  
AS-0144  
AS-0142  
SP-1003-OR  
SP-1004-OR
- Olson Sky Bracket SS-SBC64-SBK-  
XXTKXX
- \_\_\_\_\_
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Quantity accepted \_\_\_\_\_  
Quantity rejected \_\_\_\_\_

**BLUE SHEETS  
BACKPLATES**

**DESCRIPTION:** Aluminum sheet POWDER-COATED flat black louvered or black polycarbonate attached with stainless steel screws and washers.

**USE:** Shield around vehicle signal for sky contrast

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**ALUMINUM**

- McCain M17903, M17910
- Northwest Signal 1288E, 121212E, 12121212E, 5 cluster-E, 1212121212E
- Peek 400007
- Econolite E1692P43-14 E1697P43-14
- Siemens BPA-N-L
- \_\_\_\_\_
- \_\_\_\_\_
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**POLYCARBONATE**

- McCain M18167
- Econolite E1590P43
- Siemens BPB-N-L
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**INITIAL SUBMITTAL**

**QUALIFIED**

**QUALIFIED AS NOTED**

**RETURNED FOR CORRECTION**

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**Materials Accompanied By Manufacturer's or Supplier's Certification (Copy attached)**  
Quantity accepted \_\_\_\_\_  
Quantity rejected \_\_\_\_\_



**EYEBOLT, TURNBUCKLE, STRANDVICE**

**DESCRIPTION:** Hardware for attaching spans to strain poles. HOT DIPPED GALVANIZED

**USE:** Eyebolt and strandvice for messenger cable, eyebolt, strandvice and turnbuckle for tether ('S' hook state furnished)

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**EYEBOLT**

- Joslyn J9512(E)  
J9514(E)
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**TURNBUCKLE (w/jam nuts)**

- Crosby HG-226(1031314)
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**STRANDVICE (1/4 inch)**

- Maclean Power Systems 5100, 5200
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**STRANDVICE (3/8 inch)**

- Maclean Power Systems 5102
- \_\_\_\_\_
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- \_\_\_\_\_

**INITIAL SUBMITTAL**

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**CMO REQUIRED (If steel or iron, see specifications)**

- Received Date: \_\_\_\_\_



**LED MODULES (12" RED)**

**DESCRIPTION:** Unit which replaces incandescent bulbs in signal Heads. Flange mount type.

**USE:** LED module to illuminate vehicle and ped signals.

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**Vehicle Signal RED BALL 12 inch**

- Dialight 433-1270-003XL
- GE Lumination DR6-RCFB-17A
- Excellence Opto Inc TRV-R12SG-D2T-C
- Leotek TSL-12R-LX-IL3-A1-CLR  
TSL-12R-LX-IL6-A1-P2-CLR
- TraStar JXC-300-HFR-C
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Vehicle Signal RED ARROW 12 inch**

- Dialight 432-1374-001XOD
- GE Lumination DR6-RCAAN-17A
- Excellence Opto Inc TRA-R12DG-IN-C
- Leotek TSL-12RA-LD-A1-CLR  
TSL-12RA-IL6-A1-CLR
- TraStar JXJ-300-07R03
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

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Quantity accepted \_\_\_\_\_  
Quantity rejected \_\_\_\_\_

**BLUE SHEETS**

**LED MODULES (12" YELLOW)**

**DESCRIPTION:** Unit which replaces incandescent bulbs in signal Heads. Flange mount type.

**USE:** LED module to illuminate vehicle and ped signals.

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**Vehicle Signal YELLOW BALL 12 inch**

- Dialight 433-3270-901XL
- GE Lumination DR6-YCFB-17A-YX  
DR6-YCFB-17A-YX1
- Excellence Opto Inc TRV-Y12SG-D1T-C
- Leotek TSL-12Y-LX-IL3-A1-C-CLR  
TSL-12Y-LX-IL6-A1-P2-CLR
- TraStar JXC-300-HFY-C
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Vehicle Signal YELLOW ARROW 12 inch**

- Dialight 431-3374-001XOD  
431-3374-901XOD
- GE Lumination DR6-YCAAN-17A-YX
- Excellence Opto Inc TRA-Y12DG-IN2-C
- Leotek TSL-12YA-LD-A1-CLR  
TSL-12YA-IL6-A1-CLR
- TraStar JXJ-300-07Y03
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

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Quantity accepted \_\_\_\_\_  
Quantity rejected \_\_\_\_\_

**BLUE SHEETS**

**LED MODULES (12" GREEN)**

**DESCRIPTION:** Unit which replaces incandescent bulbs in signal Heads. Flange mount type.

**USE:** LED module to illuminate vehicle and ped signals.

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**Vehicle Signal GREEN BALL 12 inch**

- Dialight 433-2270-001XL
- GE Lumination DR6-GCFB-17A
- Excellence Opto Inc TRV-G12SG-D2T-C
- Leotek TSL-12G-LX-IL3-A1-CLR  
TSL-12G-LX-IL6-A1-P2-CLR
- TraStar JXC-300-HFG-C
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Vehicle Signal GREEN ARROW 12 inch**

- Dialight 432-2374-001XOD
- GE Lumination DR6-GCAAN-17A
- Excellence Opto Inc TRA-G12DG-IN-C
- Leotek TSL-12GA-LD-A1-CLR  
TSL-12GA-IL6-A1-CLR
- TraStar JXJ-300-07G03
- \_\_\_\_\_
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- \_\_\_\_\_
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- \_\_\_\_\_
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- \_\_\_\_\_

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Quantity rejected \_\_\_\_\_

**BLUE SHEETS**

**LED MODULES (8" RED, YELLOW, and GREEN)**

**DESCRIPTION:** Unit which replaces incandescent bulbs in signal Heads. Flange mount type.

**USE:** LED module to illuminate vehicle and ped signals.

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**Vehicle Signal RED BALL 8 inch**

- Dialight 433-1170-003XL
- GE Lumination DR4-RCFB-17A
- Excellence Opto Inc TRV-R08SG-D1T-C
- Leotek TSL-08R-LX-IL3-A1-CLR  
TSL-08R-LX-IL6-A1-P2-CLR
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Vehicle Signal YELLOW BALL 8 inch**

- Dialight 433-3170-901XL
- GE Lumination DR4-YCFB-17A-YX
- Excellence Opto Inc TRV-Y08SG-D1T-C
- Leotek TSL-08Y-LX-IL3-A1-CLR  
TSL-08Y-LX-IL6-A1-P2-CLR
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Vehicle Signal GREEN BALL 8 inch**

- Dialight 433-2170-001XL
- GE Lumination DR4-GCFB-17A
- Excellence Opto Inc TRV-G08SG-D1T-C
- Leotek TSL-08G-LX-IL3-A1-CLR  
TSL-08G-LX-IL6-A1-P2-CLR
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

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or Supplier's Certification (Copy attached)  
Quantity accepted \_\_\_\_\_  
Quantity rejected \_\_\_\_\_

**BLUE SHEETS**

**LED MODULES (PEDESTRIAN)**

**DESCRIPTION:** Unit which replaces incandescent bulbs in signal Heads. Flange mount type.

**USE:** LED module to illuminate vehicle and ped signals.

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**Pedestrian Signal Hand/Man COMBO**

- Dialight 430-6450-001X
- GE Lumination PS7-CFC1-26A
- Excellence Opto Inc TRP-C45DG-W2
- Leotek TSL-PED-16-DIL
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Pedestrian Signal Count Down COMBO**

- Dialight 430-6479-001X
- GE Lumination PS7-CFF1-26A  
PS7-CFF1-26A-MB
- Excellence Opto Inc TRP-C45D3154C10
- Leotek TSL-PED-16-CIL-9
- TraStar JXM-400VIEIL
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

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**LOOP FEEDER CABLE**

**DESCRIPTION:** Polyethylene jacketed shielded cable with 2-No.14 AWG wires and bare tinned copper drain wire or No.14 wires wrapped with mylar tape. IMSA spec. No. 50-2.

**USE:** Connects pairs of loop wires to controller, splice only at junction box (JB).

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**IMSA 50-2 14 AWG**

- |  |                  |
|--|------------------|
| <input type="checkbox"/> Belden (Anixter)        | IMSA 50-2 14 AWG |
| <input type="checkbox"/> General Cable (Anixter) | IMSA 50-2 14 AWG |
| <input type="checkbox"/> Rome (Anixter)          | IMSA 50-2 14 AWG |
| <input type="checkbox"/> CSC (Southwest Wire)    | IMSA 50-2 14 AWG |
| <input type="checkbox"/> Advanced Digital Cable  | IMSA 50-2 14 AWG |
| <input type="checkbox"/> Lake Cable (Anixter)    | IMSA 50-2 14 AWG |
| <input type="checkbox"/> Falcon Fine Wire        | IMSA 50-2 14 AWG |
| <input type="checkbox"/> _____                   | _____            |
| <input type="checkbox"/> _____                   | _____            |
| <input type="checkbox"/> _____                   | _____            |

**IMSA 50-2 18 AWG**

- |  |                  |
|--|------------------|
| <input type="checkbox"/> CSC (Southwest Wire)    | IMSA 50-2 18 AWG |
| <input type="checkbox"/> Belden (Anixter)        | IMSA 50-2 18 AWG |
| <input type="checkbox"/> General Cable (Anixter) | IMSA 50-2 18 AWG |
| <input type="checkbox"/> Rome (Anixter)          | IMSA 50-2 18 AWG |
| <input type="checkbox"/> Advanced Digital Cable  | IMSA 50-2 18 AWG |
| <input type="checkbox"/> Falcon Fine Wire        | IMSA 50-2 18 AWG |
| <input type="checkbox"/> _____                   | _____            |
| <input type="checkbox"/> _____                   | _____            |
| <input type="checkbox"/> _____                   | _____            |

**Multi-conductor (2 Pair)**

- |                          |       |
|--------------------------|-------|
| <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | _____ |
| <input type="checkbox"/> | _____ |
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Quantity rejected \_\_\_\_\_

**LOOP SPLICE**

**DESCRIPTION:** Two piece plastic enclosure flooded with silicon grease. Includes screw on silicon grease filled wire connectors.

**USE:** Splice point for loop feeder to loop wire.

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**TWO PIECE ENCLOSURE**

<input type="checkbox"/> Belden (Klik-It II)	C8811
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____

**SILICONE WIRE CONNECTORS**

<input type="checkbox"/> Ideal	60
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____
<input type="checkbox"/>	_____

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Quantity rejected \_\_\_\_\_











**PEDESTRIAN SIGNAL**

**DESCRIPTION:** Pole mounted signals. Aluminum powder coated black or black polycarbonate *with* stainless steel hardware.

**USE:** At all crosswalks which are signalized (controlled) or not.

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**ALUMINUM**

<input type="checkbox"/> McCain	M31826, M32236
<input type="checkbox"/> Econolite	PED16SFSNNN
<input type="checkbox"/> Siemens	SG7SZ20C1BBB
<input type="checkbox"/> Peek	4302 - Alum
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

**POLYCARBONATE**

<input type="checkbox"/> McCain	M32258, M32253
<input type="checkbox"/> Siemens	SG7SZ10C1BBB
<input type="checkbox"/> Peek	4302 - Poly
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
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**CMO REQUIRED (If steel or iron, see specifications)**

- Received Date:** \_\_\_\_\_







**PUSH-BUTTON**

**DESCRIPTION:** Push-button boxes with "H" style mounts.

**USE:** Used on traffic actuated signals.

**BRAND/MANUFACTURER    CATALOGUE/PART NO.**

**Type H mount**

- Campbell Company                      H-1
- American Pole Structures              APSH-1
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Push Button**

- Rees    1371-412
- Campbell Company                      4EVR, DCC800
- Taylor Machine Company              TMC 48
- Polara    RBDLM-B
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**Integrated Audible Ped.**

- Polara    Navigator: 4 Wire
- Campbell Company                      ADVISOR APS-AH
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

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Quantity rejected \_\_\_\_\_



**BLUE SHEETS**

**SERVICE CABINET & REMOTE SERVICE POST**

**DESCRIPTION:** Base mounted service cabinet with integral meter base or RPS post mounted service cabinet. Includes circuit breakers, contactors, test switches, neutral and ground bars.

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

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**RPS MOUNTED CABINETS**

**RPS POST**

- Fouch RPS
- Brownfield/Rhino Mfg RPS
- \_\_\_\_\_
- \_\_\_\_\_

**120 SERVICE**

- Fouch SC-1
- Brownfield/Rhino Mfg SC-1
- \_\_\_\_\_

**120 SERVICE w/illum.**

- Fouch SCL/1
- Brownfield/Rhino Mfg SCL/1
- \_\_\_\_\_

**120/240 SERVICE**

- Fouch SC/2
- Brownfield/Rhino Mfg SC/2
- \_\_\_\_\_
- \_\_\_\_\_

**120/240 SERVICE w/illum.**

- Fouch SCL/2
- Brownfield/Rhino Mfg SCL/2
- \_\_\_\_\_

**BASE MOUNTED CABINETS**

**120/240 SERVICE**

- Fouch BMC
- Brownfield/Rhino Mfg BMC
- \_\_\_\_\_

**120/240 SERVICE w/illum.**

- Fouch BMCL
- Brownfield/Rhino Mfg BMCL
- \_\_\_\_\_

**MISC. CABINETS**

**FLASHER CABINET**

- Fouch SC1-FC
- Brownfield/Rhino Mfg SC1-FC
- \_\_\_\_\_

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**CMO REQUIRED (If steel or iron, see specifications)**

- Received Date: \_\_\_\_\_

**SIGNAL HEAD COVERS**

**DESCRIPTION:** Yellow prefabricated nylon "bag". Includes a fine mesh insert for signal testing with integral elastic bands and clips to secure the covers to the signal.

**USE:** Completely covers the head, visors, and backplate until traffic signal is turned on.

**BRAND/MANUFACTURER    CATALOGUE/PART NO.**

**Pedestrian Signals**

<input type="checkbox"/> R. Hart Sales	Signal Shirt
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

**Vehicle Signals**

<input type="checkbox"/> R. Hart Sales	Signal Shirt
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
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Quantity rejected \_\_\_\_\_











**VEHICLE SIGNAL BRACKET (ADJ)**

**DESCRIPTION:** An extruded aluminum assembly that is adjustable. It's full length, that supports a vehicle signal on a mast arm and attaches to the arm by means of stainless steel cables.

**USE:** To support vehicle signals on a mast arm. Allowing for adjustment of signal for height and full support of signal sections.

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

- |  |  |
|--|--|
| <input type="checkbox"/> Pelco             | AB-0125-L-L<br>AB-0138-L-L<br>SP-1002-OR<br>SP-1005-OR |
| <input type="checkbox"/> Olson Sky Bracket | SS-SBC64-XX<br>SS-SBC64-SCB-XX                         |
| <input type="checkbox"/> _____             | _____  |
| <input type="checkbox"/> _____             | _____  |
| <input type="checkbox"/> _____             | _____  |
| <input type="checkbox"/> _____             | _____  |
| <input type="checkbox"/> _____             | _____  |
| <input type="checkbox"/> _____             | _____  |

**RAMP METER SIDE POLE MOUNT**

- |                                |         |
|--------------------------------|---------|
| <input type="checkbox"/> Pelco | SE-0567 |
| <input type="checkbox"/> _____ | _____   |
| <input type="checkbox"/> _____ | _____   |
| <input type="checkbox"/> _____ | _____   |
| <input type="checkbox"/> _____ | _____   |
| <input type="checkbox"/> _____ | _____   |
| <input type="checkbox"/> _____ | _____   |
| <input type="checkbox"/> _____ | _____   |
| <input type="checkbox"/> _____ | _____   |
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| <input type="checkbox"/> _____ | _____   |
| <input type="checkbox"/> _____ | _____   |
| <input type="checkbox"/> _____ | _____   |
| <input type="checkbox"/> _____ | _____   |

**INITIAL SUBMITTAL**

- QUALIFIED
- QUALIFIED AS NOTED
- RETURNED FOR CORRECTION

Date: \_\_\_\_\_

Name: \_\_\_\_\_

CTSI Card# \_\_\_\_\_

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**INSPECTED & ACCEPTED ON PROJECT**

Date: \_\_\_\_\_

Name: \_\_\_\_\_

CTSI Card# \_\_\_\_\_

- Verified Materials By Markings/Packaging  
Quantity accepted \_\_\_\_\_  
Quantity rejected \_\_\_\_\_

- Materials Accompanied By Manufacturer's  
or Supplier's Certification (Copy attached)  
Quantity accepted \_\_\_\_\_  
Quantity rejected \_\_\_\_\_

**BLUE SHEETS**  
**VEHICLE SIGNAL VISOR**

**DESCRIPTION:** Aluminum powder coated black or black polycarbonate open at bottom standard (tunnel). Visor must attach to signal heads with stainless steel screws.

**USE:** All signal heads. Tunnel visors with open bottom unless otherwise noted on plans.

**BRAND/MANUFACTURER**    **CATALOGUE/PART NO.**

**ALUMINUM**

<input type="checkbox"/> McCain	M19263
<input type="checkbox"/> Northwest Signal/Peek	NWS00027E
<input type="checkbox"/> Peek	0700027E
<input type="checkbox"/> Econolite	E8260P1-14 E8265P1-14
<input type="checkbox"/> Siemens/Eagle	TV12
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

**POLYCARBONATE**

<input type="checkbox"/> McCain	M19271
<input type="checkbox"/> Econolite	EP1529P4-14 106-1001-014
<input type="checkbox"/> Siemens/Eagle	TVP12
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
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<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

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Quantity rejected \_\_\_\_\_

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Quantity accepted \_\_\_\_\_  
Quantity rejected \_\_\_\_\_

**VEHICLE SIGNALS**

**DESCRIPTION:** Aluminum powder coated black or black polycarbonate. May have 1,3,4, or 5 signal faces. May be programmable. All fasteners shall be type 304/316 stainless steel except for brass terminal screws.

**USE:** Flashing beacon, 3-section RYG signal, 4-section with green arrows, 5-section with arrows and balls.

**BRAND/MANUFACTURER CATALOGUE/PART NO.**

**ALUMINUM**

- |  |  |
|--|--|
| <input type="checkbox"/> McCain                | Standard:<br>8 inch, 12 inch<br>Programmable:<br>12 inch |
| <input type="checkbox"/> Northwest Signal/Peek | Standard:<br>8 inch, 12 inch                             |
| <input type="checkbox"/> Peek                  | Standard:<br>12 inch<br>HSS83E300GOR                     |
| <input type="checkbox"/> Econolite             | Standard:<br>8 inch, 12 inch                             |
| <input type="checkbox"/> Siemens/Eagle         | Standard:<br>8 inch, 12 inch                             |
| <input type="checkbox"/> _____                 | _____  |
| <input type="checkbox"/> _____                 | _____  |
| <input type="checkbox"/> _____                 | _____  |
| <input type="checkbox"/> _____                 | _____  |

**POLYCARBONATE (STANDARD DUTY)**

- |  |                              |
|--|------------------------------|
| <input type="checkbox"/> McCain        | 12 inch: M22435              |
| <input type="checkbox"/> Econolite     | Standard:<br>8 inch, 12 inch |
| <input type="checkbox"/> Siemens/Eagle | Standard:<br>8 inch, 12 inch |
| <input type="checkbox"/> _____         | _____                        |
| <input type="checkbox"/> _____         | _____                        |
| <input type="checkbox"/> _____         | _____                        |
| <input type="checkbox"/> _____         | _____                        |

**POLYCARBONATE (HEAVY DUTY)**

- |                                 |                    |
|---------------------------------|--------------------|
| <input type="checkbox"/> McCain | 12 inch: M25346-SR |
| <input type="checkbox"/> _____  | _____              |
| <input type="checkbox"/> _____  | _____              |
| <input type="checkbox"/> _____  | _____              |
| <input type="checkbox"/> _____  | _____              |

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