

ILLUMINATION LEGEND

- HANDHOLE TO EVERSOURCE SPECIFICATIONS (SEE SPECIAL PROVISION FOR ITEM NO. 1010002A)
- CONCRETE HANDHOLE - TYPE I
- HANDHOLE FOR RRFB (SEE TRAFFIC PLANS)
- 16"x14"x6" NEMA 4X NON-METALLIC JUNCTION BOX (SURFACE MOUNTED)
- LED ROADWAY LUMINAIRE - NOMINAL 142W, TYPE III DIST., 3000K CCT, FULL-CUTOFF, 28' MOUNTING HEIGHT (UNLESS OTHERWISE NOTED) TO BE MOUNTED ON WOOD UTILITY POLE WITH 6' ARM LENGTH BY EVERSOURCE
- LED ROADWAY LUMINAIRE - NOMINAL 142W, TYPE III DIST., 3000K CCT, FULL-CUTOFF, 28' MOUNTING HEIGHT (UNLESS OTHERWISE NOTED) TO BE MOUNTED ON WOOD UTILITY POLE WITH 12' ARM LENGTH BY EVERSOURCE
- LED ROADWAY LUMINAIRE - NOMINAL 142W, TYPE III DIST., 3000K CCT, FULL-CUTOFF, 28' MOUNTING HEIGHT TO BE MOUNTED ON PROPOSED UTILITY POLE WITH 12' ARM LENGTH BY EVERSOURCE
- LED UNDERDECK ROADWAY LUMINAIRE - TYPE 2 17,300 LUMENS, TYPE III DIST., MOUNTED ON ABUTMENT WALL
- EXISTING LUMINAIRE TO REMAIN
- 3" RIGID METAL CONDUIT (R.M.C.) IN TRENCH (2#6, 1#4 GND.)
- 2" PVC CONDUIT IN TRENCH (2#6, 1#4 GND.) CONDUCTORS TO BE INSTALLED BY EVERSOURCE
- 2" PVC CONDUIT IN TRENCH (2#6, 1#4 GND.)
- 2" FIBERGLASS CONDUIT IN TRENCH (2#6, 1#4 GND.)
- 3/4" FIBERGLASS CONDUIT SURFACE-MOUNTED (2#10, 1#10 GND.)
- CONDUIT FOR RRFB (SEE TRAFFIC PLANS)
- ⊠ SERVICE ENTRANCE AND CABINET - TYPE II

ABBREVIATIONS

PVC POLYVINYL CHLORIDE

HORIZONTAL ILLUMINANCE STATISTICS

DESCRIPTION	AVG	MAX	MIN	AVG/MIN	MAX/MIN
ROUNDAABOUT	2.1fc	5.1fc	0.7fc	3.0:1	7.3:1
UNDERBRIDGE	2.6fc	4.5fc	0.9fc	2.9:1	5.0:1
TRANSITION LIGHTING ZONE 1	1.4fc	N/A	N/A	N/A	N/A
TRANSITION LIGHTING ZONE 2	0.9fc	N/A	N/A	N/A	N/A

VERTICAL ILLUMINANCE STATISTICS

DESCRIPTION	AVG	MAX	MIN	AVG/MIN	MAX/MIN
CROSSWALK 1 EXIT	2.3fc	2.5fc	1.5fc	1.5:1	1.7:1
CROSSWALK 1 ENTRANCE	2.0fc	2.6fc	1.4fc	1.4:1	1.9:1
CROSSWALK 2 ENTRANCE 1	1.9fc	2.4fc	1.3fc	1.4:1	1.9:1
CROSSWALK 2 ENTRANCE 2	1.9fc	2.8fc	0.6fc	3.2:1	4.7:1
CROSSWALK 3 EXIT 1	2.1fc	2.5fc	1.6fc	1.3:1	1.6:1
CROSSWALK 3 EXIT 1	2.4fc	2.7fc	2.0fc	1.2:1	1.4:1

GENERAL NOTES

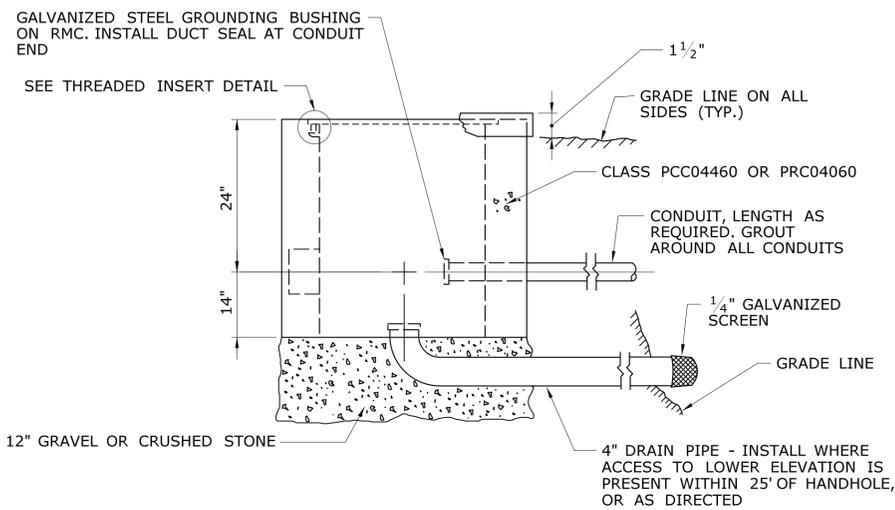
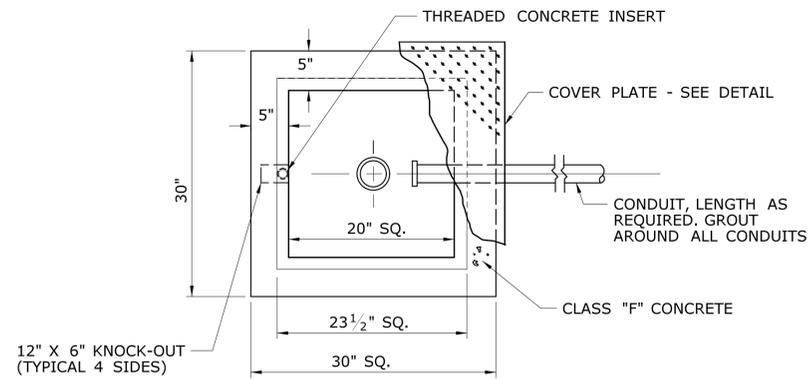
- 1) ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, CONNECTICUT STANDARD SPECIFICATIONS, AND APPLICABLE UTILITY COMPANY REGULATIONS.
- 2) CONDUCTORS SHALL BE COPPER, INSULATION TYPE XHHW AND RATED FOR 600 VOLTS. INSULATION SHALL BE COLORED CROSS LINKED POLYETHELENE (XLP). SINGLE PHASE COLORS SHALL BE BLACK AND RED. GROUND WIRE SHALL HAVE GREEN INSULATION.
- 3) ALL EQUIPMENT GROUNDING CONDUCTORS (#8) SHALL HAVE GREEN XHHW INSULATION. ALL GROUNDING CONDUCTOR CONNECTIONS SHALL BE COATED WITH AN OXIDE-INHIBITING JOINT COMPOUND.
- 4) LOCATION OF EXISTING ILLUMINATION ON PLANS IS APPROXIMATE.
- 5) TAPE ALL UNUSED CONDUCTORS.
- 6) ALL CONDUCTOR SPLICES IN CONCRETE HANDHOLES SHALL BE MADE WITH INSULATED SUBMERSIBLE CONNECTORS.
- 7) THE ROADWAY LIGHTING SHALL BE OPERATED AT 120/240 VOLTS.
- 8) THE CONTRACTOR SHALL CONTACT EVERSOURCE REPRESENTATIVE DEREK MCCORMACK AT TELEPHONE 860-267-3880 30 DAYS IN ADVANCE OF ELECTRIC SERVICE HOOK-UP OR REMOVAL TO COORDINATE ALL REQUIRED UTILITY COMPANY WORK.
- 9) CONTRACTOR TO FURNISH AND INSTALL TRANSFORMER AND CONVERTER TO PROVIDE FOR 12VDC OPERATION OF RRFB UNITS IN LIGHTING CABINET.

REV.	DATE	REVISION DESCRIPTION

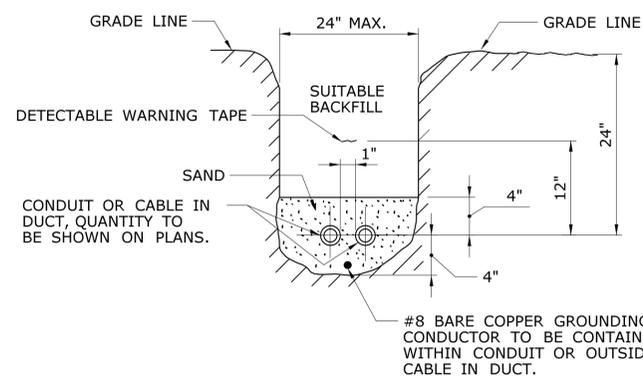
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DESIGNER/DRAFTER: JSM CHECKED BY: CL HORIZONTAL SCALE: 1" = 40' CONNECTICUT DEPARTMENT OF TRANSPORTATION SHEET NO.: **06.02**

LASTED SAVED BY: smarth FILE NAME: C:\Users\smarth\State of Connecticut\0053-0189 - Design\illumination\Contract_Plans\ILL_CP_0053-0189_ILL-02.dgn PLOTTED DATE: 2/3/2025

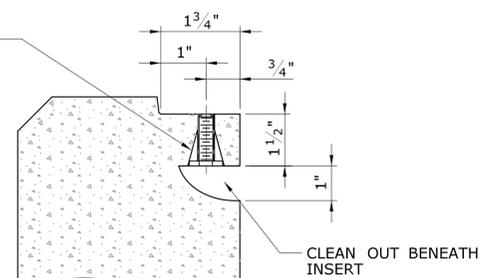


CONCRETE HANDHOLE - TYPE I
NOT TO SCALE

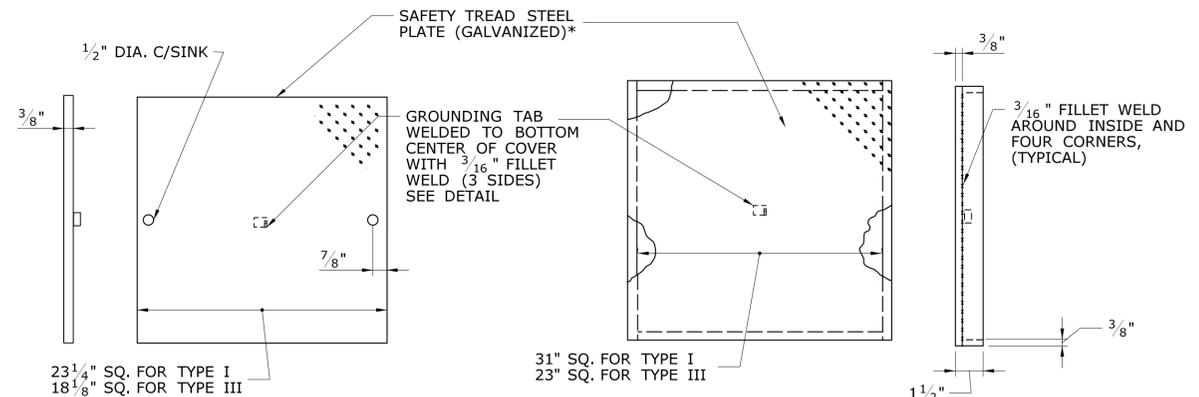


BURIED CONDUIT OR CABLE IN DUCT
NOT TO SCALE

COVER BOLT INSERT: 3/8"-16, 1 1/2" L, STAINLESS STEEL.
COVER BOLT: 3/8"-16, 1" L, FLAT HEAD, SLOTTED, STAINLESS STEEL.



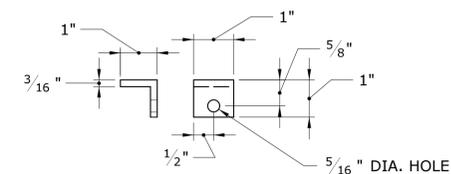
THREADED INSERT
NOT TO SCALE



RECESSED TYPE COVER
NOT TO SCALE

*GALVANIZE COMPLETE COVER ASSEMBLY AFTER WELDING

OVERLAP TYPE COVER
NOT TO SCALE



STEEL GROUNDING TAB
NOT TO SCALE

NOTE:
ATTACH 72" LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG, 1/4" x 3/4" LG. SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO NO. 8 BARE GROUND WIRE IN HANDHOLE.

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SCALE AS NOTED

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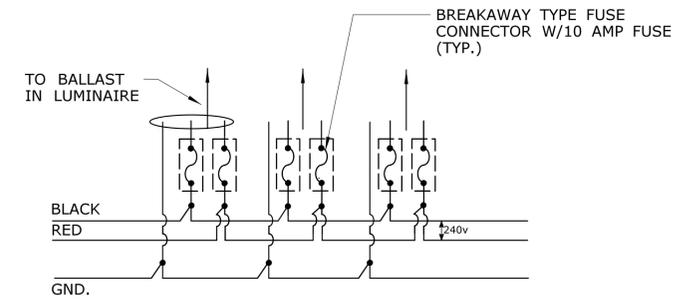
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TOWN(S):
GLASTONBURY

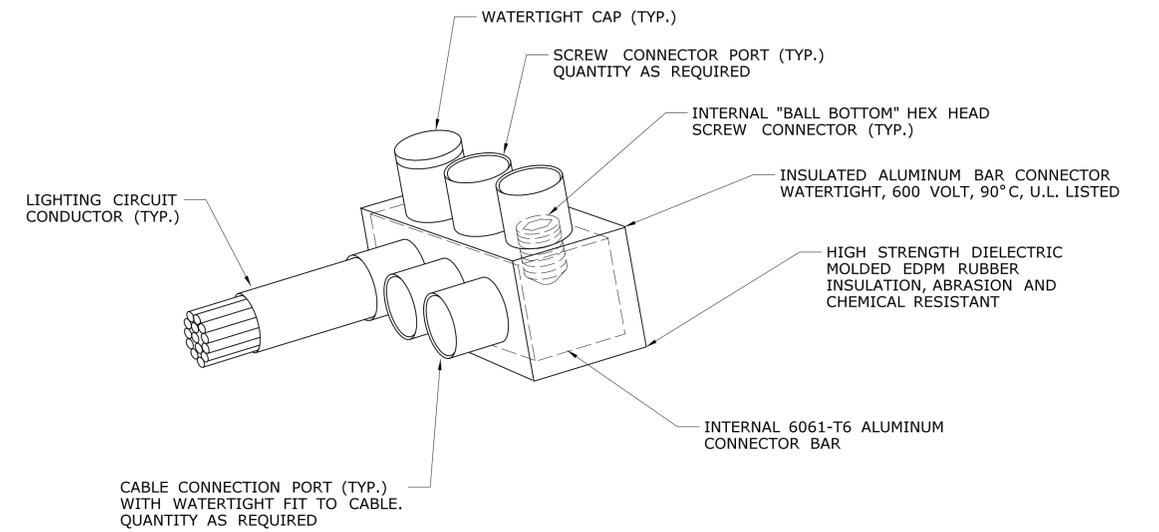
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CONCRETE HANDHOLE DETAILS

PROJECT NO.:
0053-0189

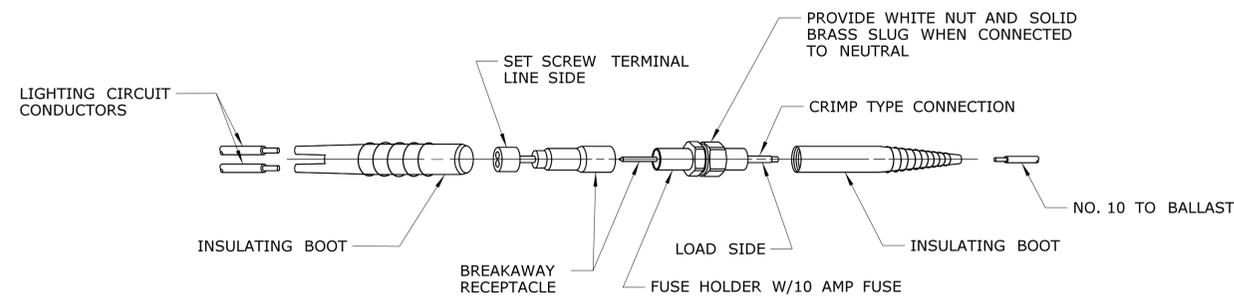
DRAWING NO.:
ILL-03
 SHEET NO.:
06.03



1 PHASE 2 WIRE SYSTEM
NOT TO SCALE



WATERTIGHT CONNECTOR
TO BE USED IN HANDHOLES AND JUNCTION BOXES
NOT TO SCALE



BREAKAWAY FUSE CONNECTOR
NOT TO SCALE

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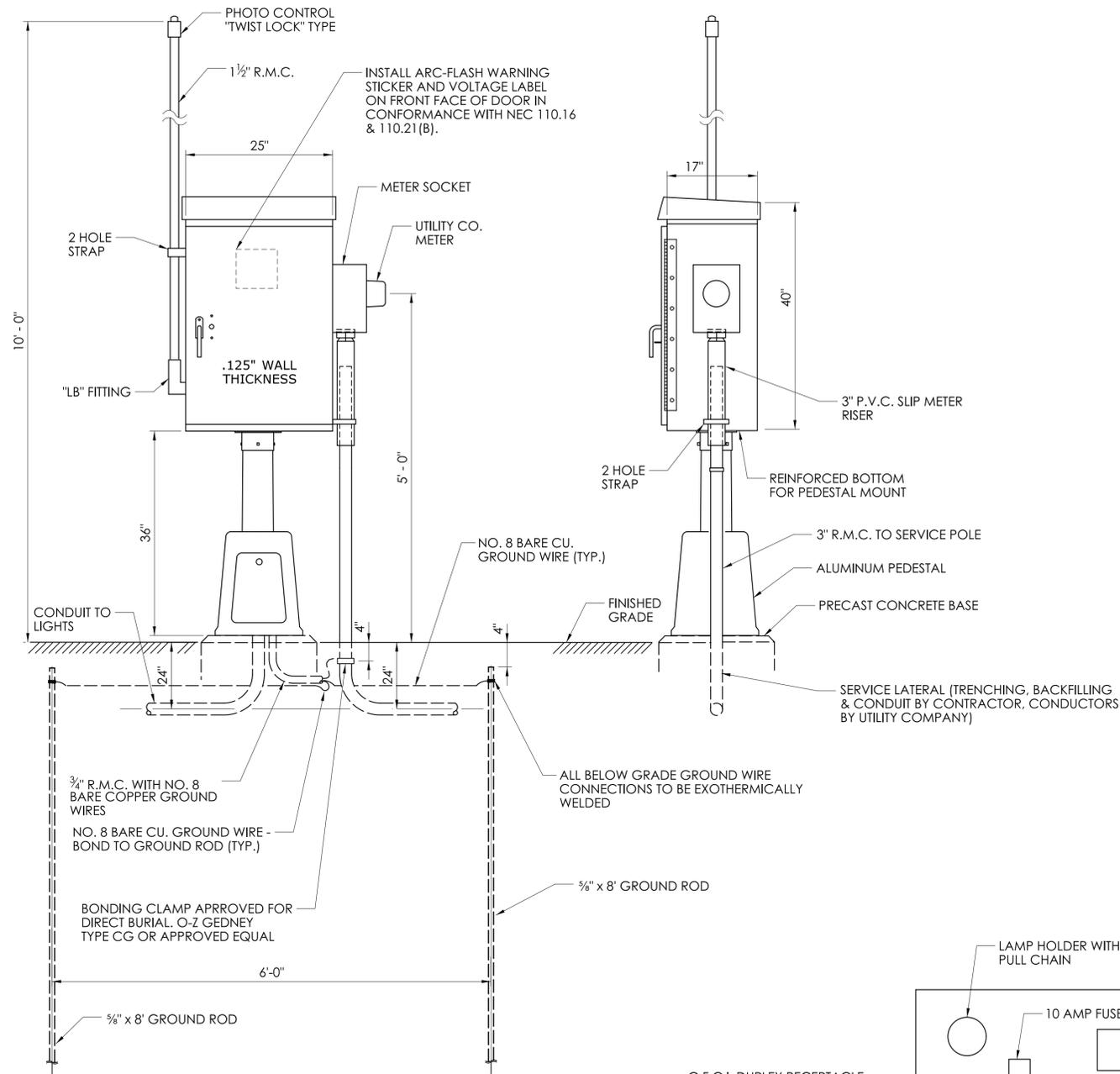
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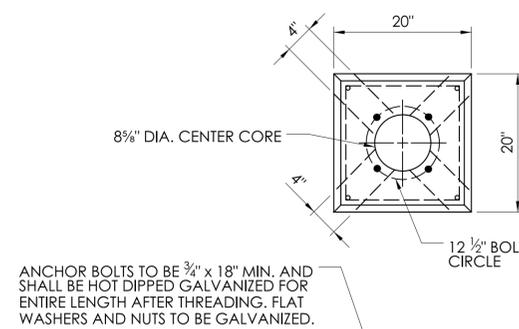
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ELECTRICAL CONNECTIONS DETAILS

PROJECT NO.:
0053-0189

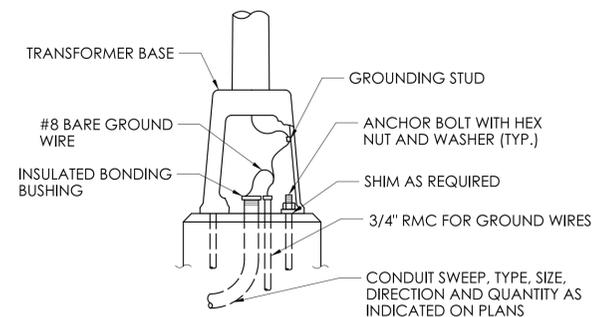
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ILL-04
 SHEET NO.:
06.04



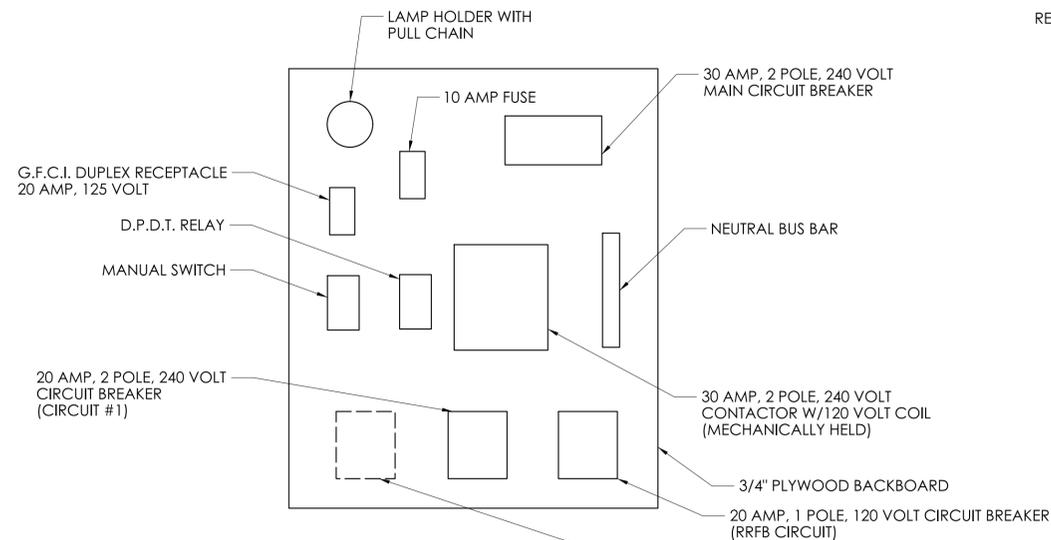
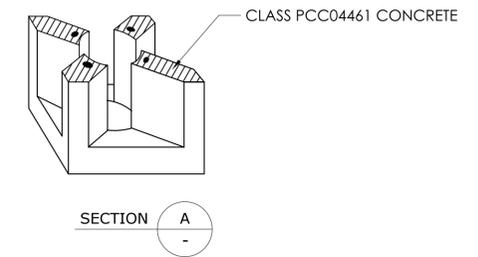
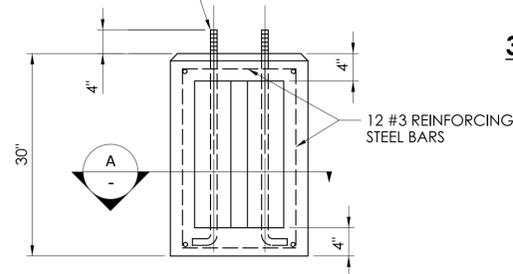
SERVICE ENTRANCE AND CABINET TYPE II
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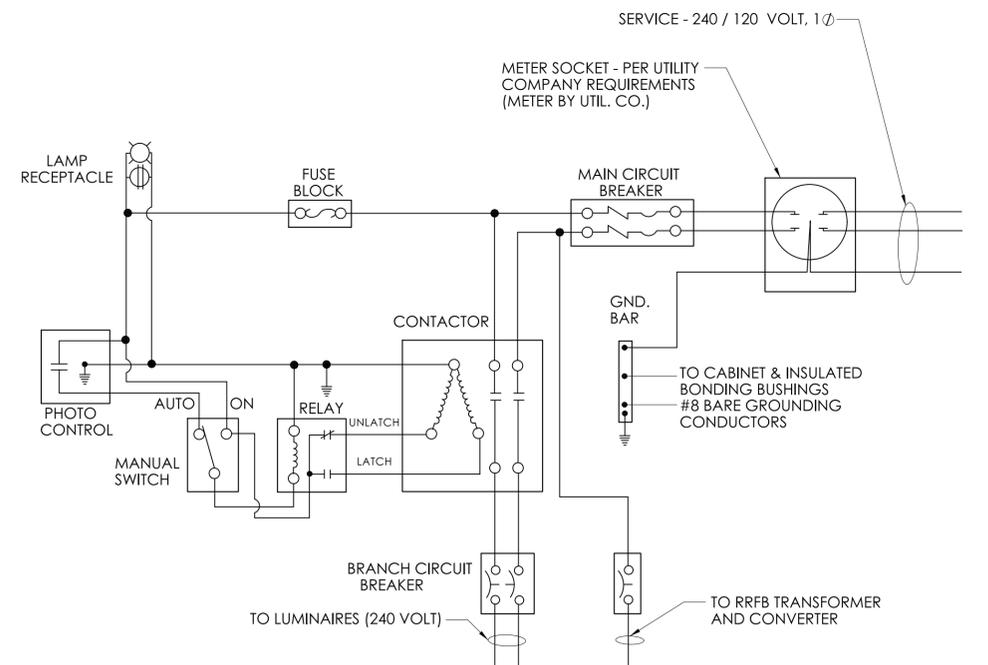
PRECAST PEDESTAL BASE - TYPE I
NOT TO SCALE



36" ALUMINUM PEDESTAL
NOT TO SCALE



PANEL LAYOUT
NOT TO SCALE



WIRING DIAGRAM
NOT TO SCALE

NOTE: CONTRACTOR SHALL FURNISH AND INSTALL A TRANSFORMER AND CONVERTER TO PROVIDE FOR 12VDC OPERATION OF RRFB UNITS

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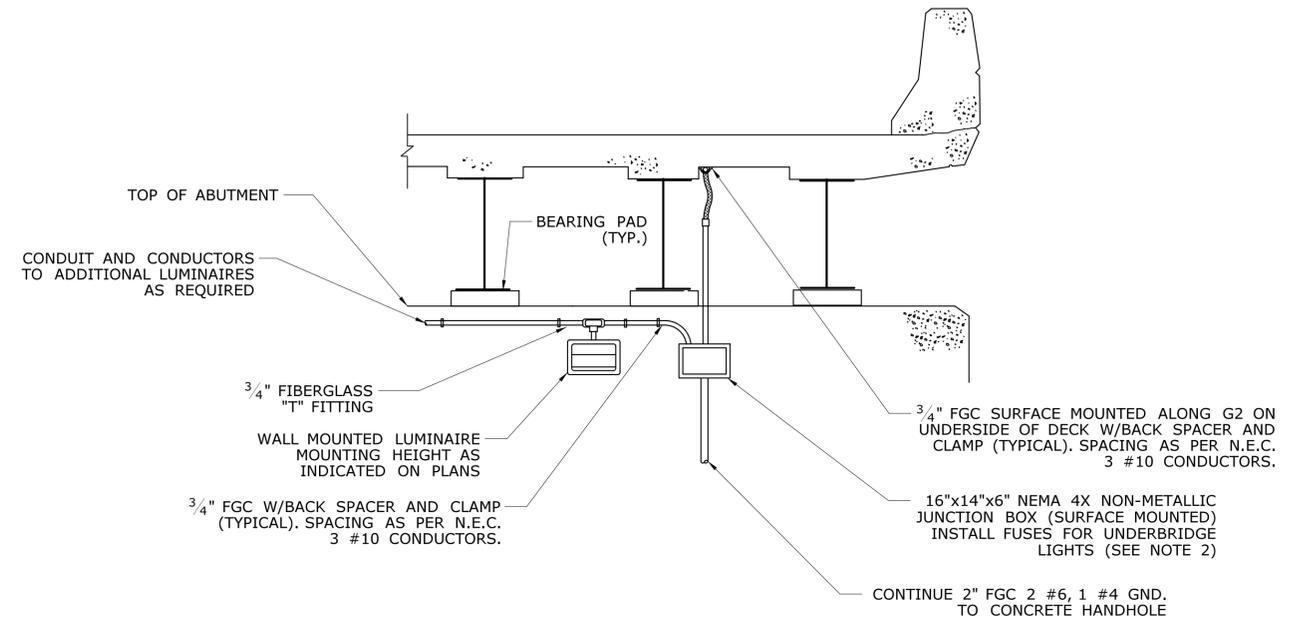
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SERVICE ENTRANCE AND CABINET - TYPE 2 DETAILS

PROJECT NO.:
0053-0189

DRAWING NO.:
ILL-05
 SHEET NO.:
06.05

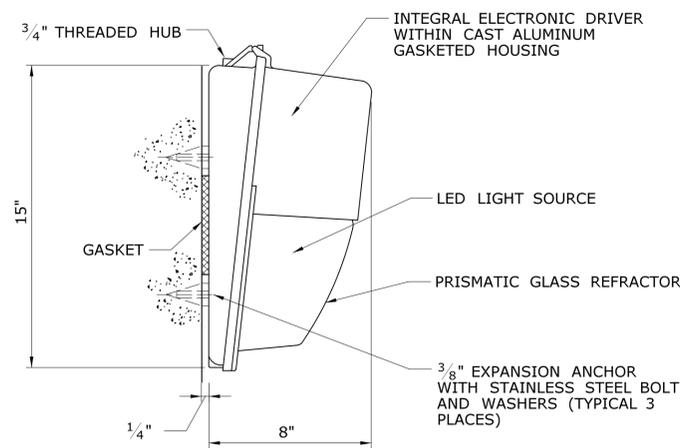
NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE THE MAXIMUM AMOUNT OF MOVEMENT BETWEEN THE BRIDGE SUPERSTRUCTURE AND THE ABUTMENT/PIER. AN APPROPRIATE LENGTH OF FLEXIBLE CONDUIT SHALL BE INSTALLED TO ACCOMMODATE THIS MOVEMENT.
2. SURFACE MOUNTED JUNCTION BOX SHALL BE PAID FOR UNDER ITEM NO. 1009503A. 2" FGC (SURFACE), 2" FLEXIBLE CONDUIT (LFNC), NO. 2 CONDUCTORS, AND NO. 8 GROUNDING CONDUCTOR TO BE INCLUDED AS PART OF UNDERBRIDGE LIGHT ITEM.
3. 3/4" FIBERGLASS CONDUIT (FGC) SHALL BE STANDARD WALL TYPE (0.070" WALL THICKNESS). 2" FIBERGLASS CONDUIT SHALL BE EXTRA HEAVY WALL TYPE (0.250" WALL THICKNESS)
4. CONDUIT SUPPORT SPACING SHALL NOT EXCEED 3'-0" AS PER N.E.C. 352.30(B).
5. ALL MECHANICAL ANCHORS AND MOUNTING HARDWARE SHALL BE TYPE 316 STAINLESS STEEL.
6. INSTALL ONE CONDUIT EXPANSION FITTING EVERY 50' OF CONDUIT LENGTH.
7. WHERE FIBERGLASS CONDUIT IS FIELD CUT, THE OUTSIDE SURFACE OF THE CUT END SHALL BE SANDED TO REMOVE THE RESIN GLAZE PRIOR TO APPLYING ADHESIVE.



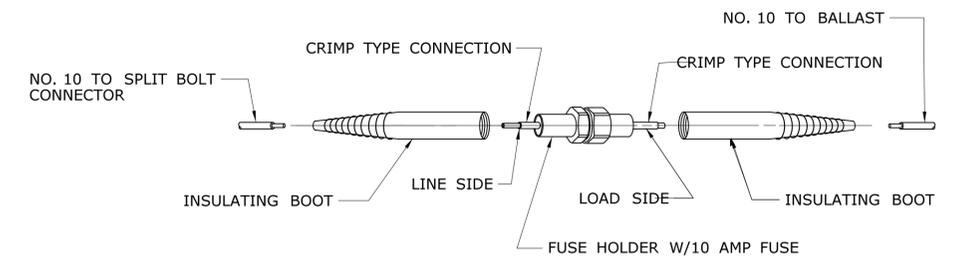
LAYOUT AND FEED FOR UNDERBRIDGE LUMINAIRE, WALL MOUNTED

NOT TO SCALE



UNDERBRIDGE LUMINAIRE (WALL MOUNTED)

NOT TO SCALE



INSULATED FUSE CONNECTOR

NOT TO SCALE

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GLASTONBURY

DRAWING TITLE:
UNDERBRIDGE LUMINAIRE DETAILS

PROJECT NO.:
0053-0189

DRAWING NO.:
ILL-06
 SHEET NO.:
06.06