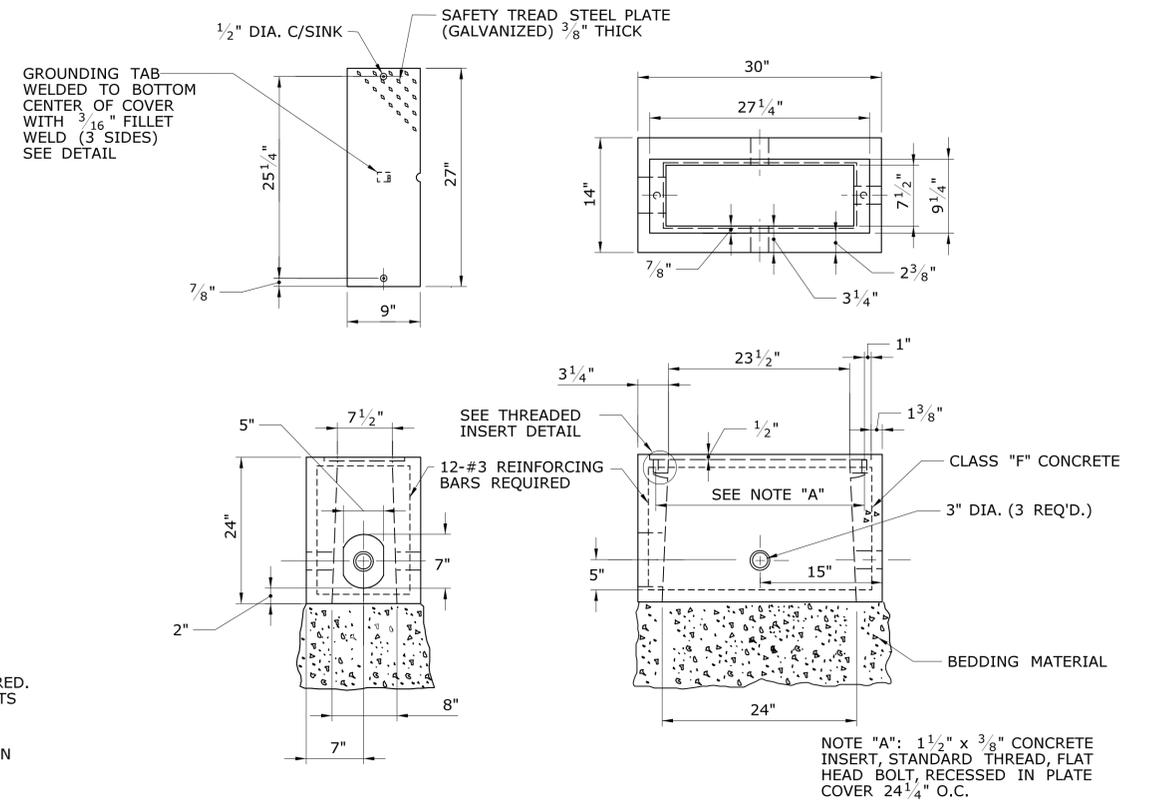
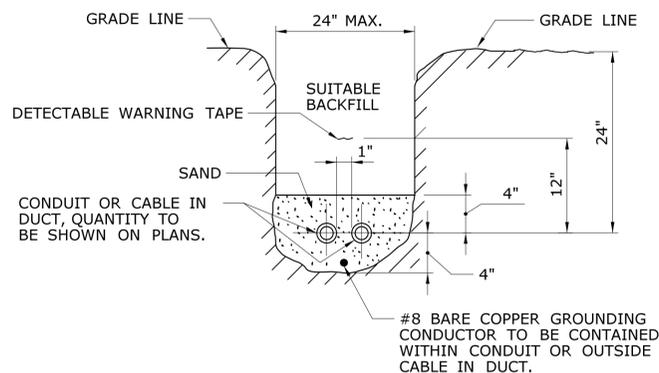


CONCRETE HANDHOLE - TYPE I

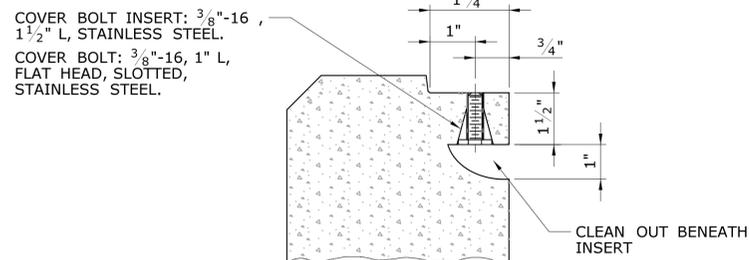
CONCRETE HANDHOLE - TYPE III



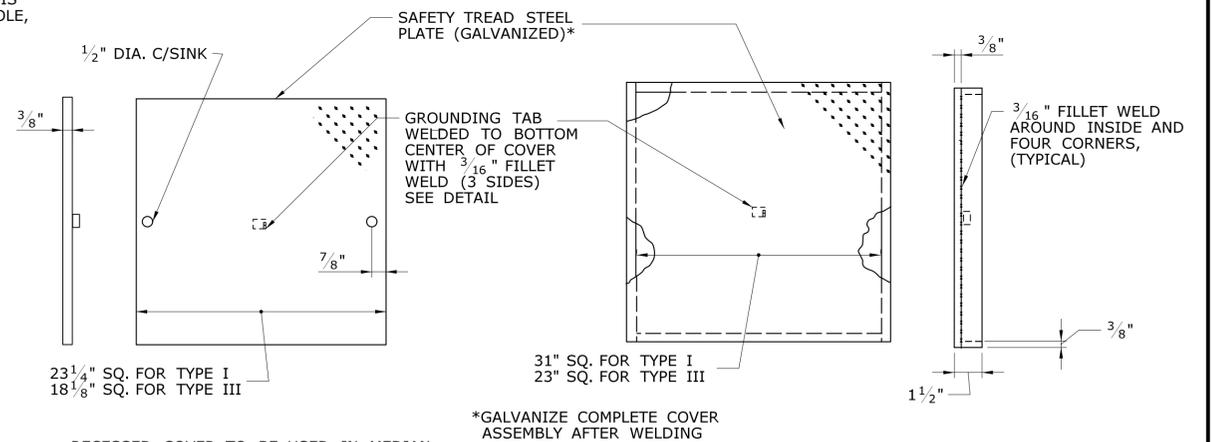
CONCRETE HANDHOLE - TYPE II



BURIED CONDUIT OR CABLE IN DUCT

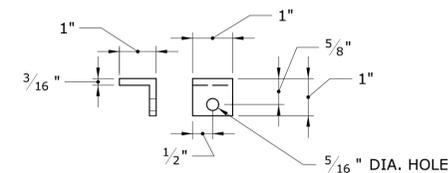


THREADED INSERT



RECESSED TYPE COVER

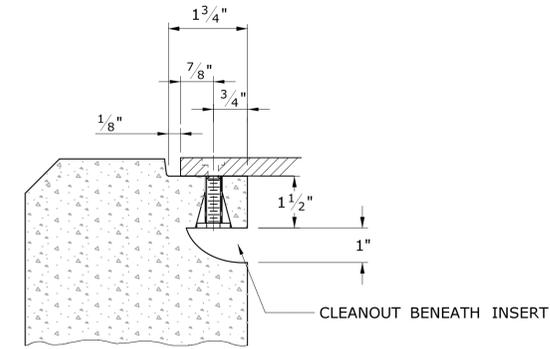
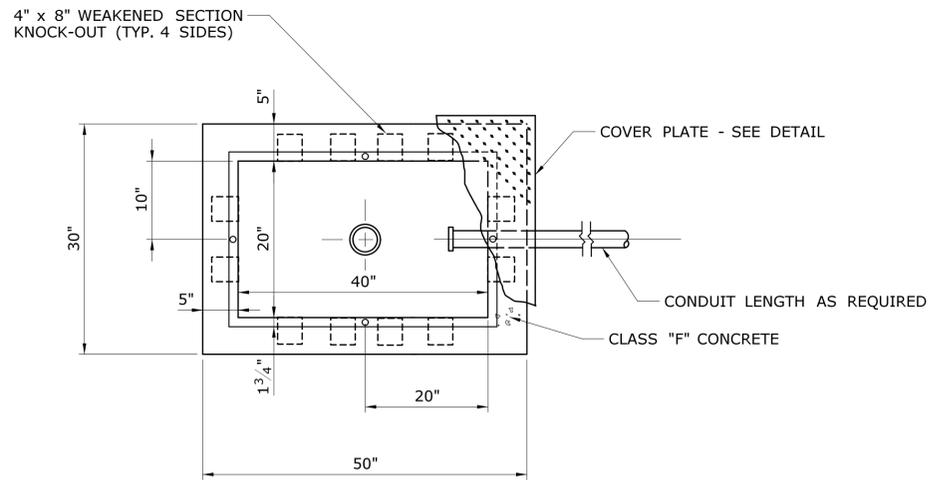
OVERLAP TYPE COVER



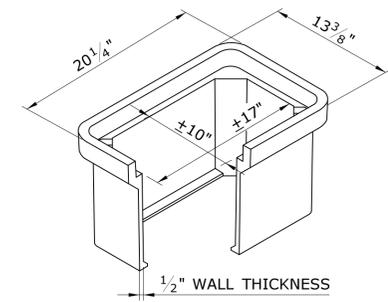
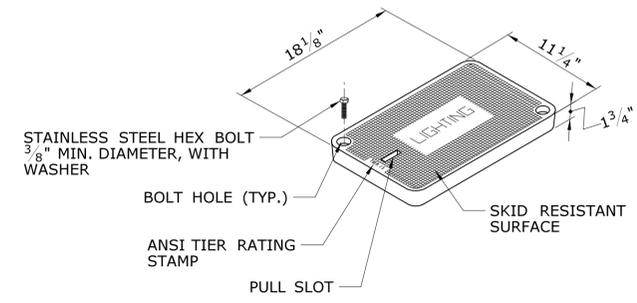
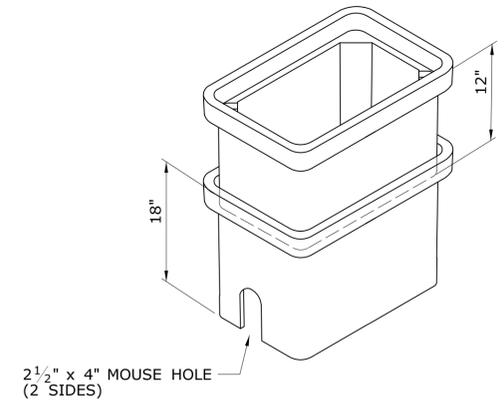
STEEL GROUNDING TAB

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.

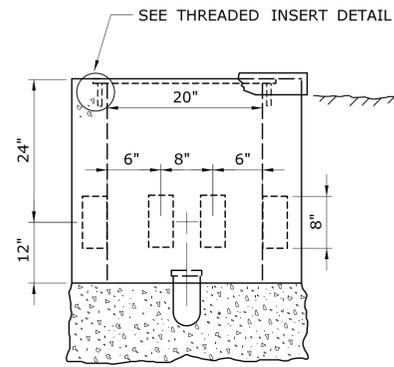
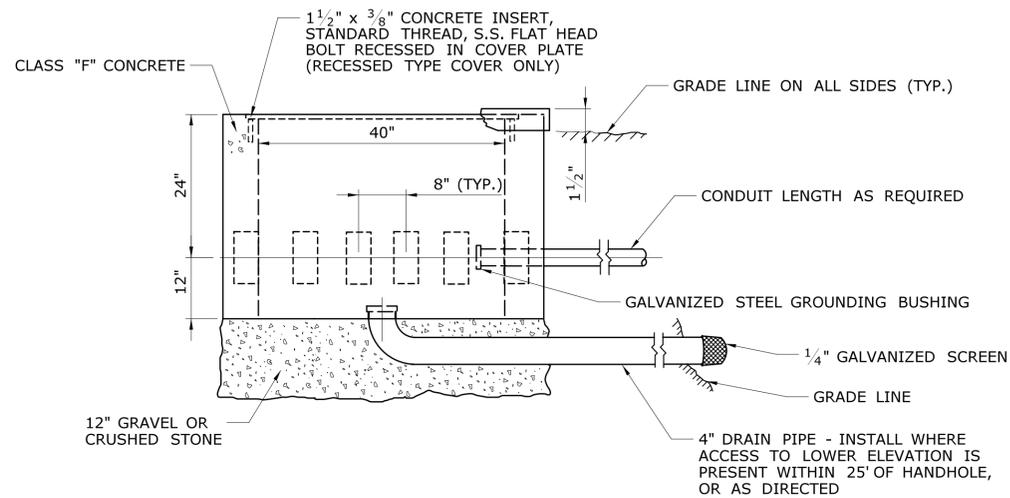
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.				DESIGNER/DRAFTER: MSB CHECKED BY: JA NO SCALE	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...CONCRETE_HANDHOLES.dgn	SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY:	PROJECT TITLE: - - -	TOWN: - -	PROJECT NO. - DRAWING NO. - SHEET NO.
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 12/29/2016	CONCRETE HANDHOLES		DATE ISSUED: 1/1/2017						



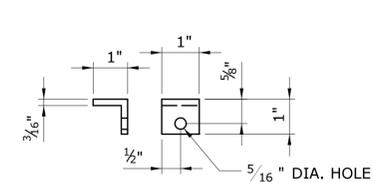
THREADED INSERT



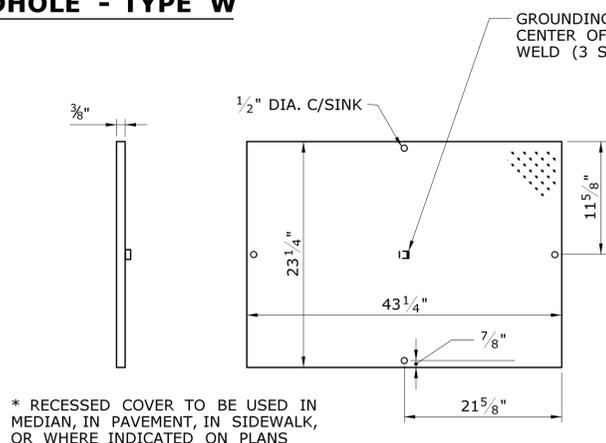
PRECAST POLYMER HANDHOLE



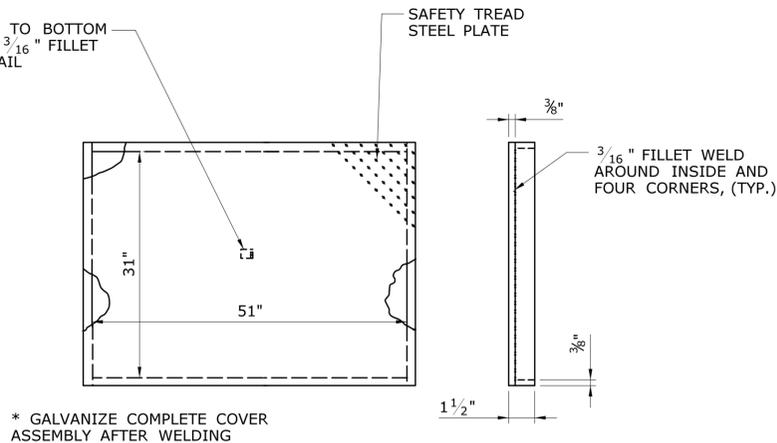
CONCRETE HANDHOLE - TYPE W



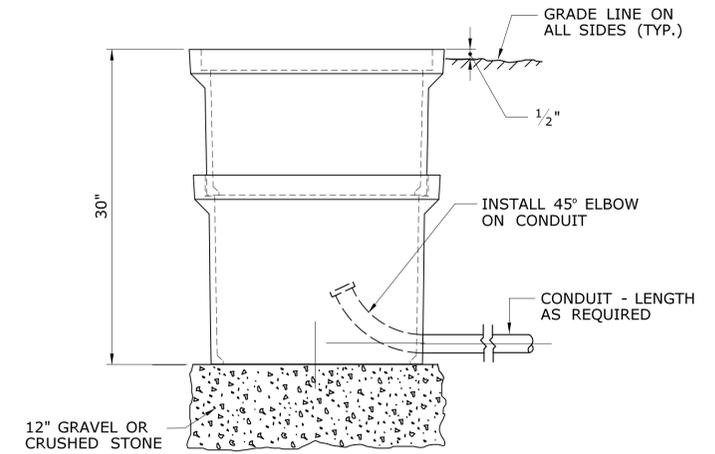
*NOTE:
ATTACH 72" LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG, 1/4" x 3/4" SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO NO. 8 BARE GROUND WIRE IN HANDHOLE.



RECESSED TYPE COVER



OVERLAP TYPE COVER FOR CONCRETE HANDHOLE - TYPE W



POLYMER HANDHOLE INSTALLATION

STEEL GROUNDING TAB

DESIGNER/DRAFTER: **MSB**

CHECKED BY: **JA**

NO SCALE



Filename: ...VCCHH - TYPE W & POLYMER HH.dgn

SIGNATURE/BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

DATE:

DATE ISSUED: 1/1/2017

PROJECT TITLE:

TOWN:

PROJECT NO.:

DRAWING NO.:

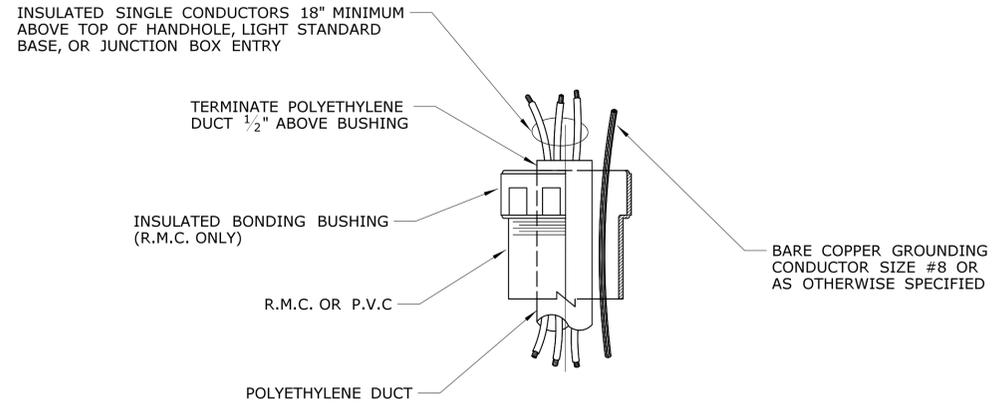
SHEET NO.:

CONC. HANDHOLE TYPE W & POLYMER HANDHOLE

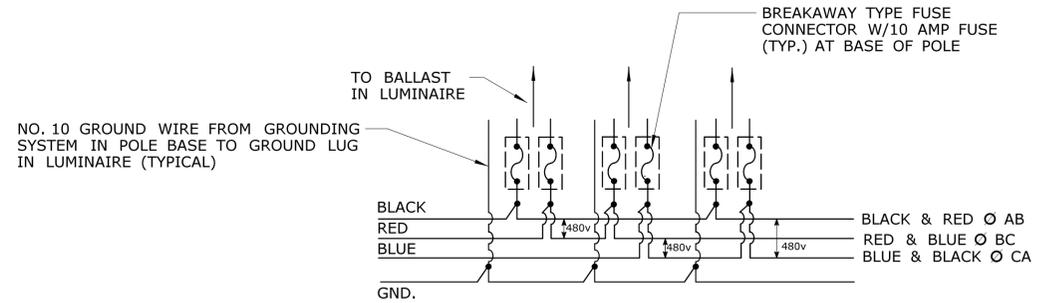
\$\$\$

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

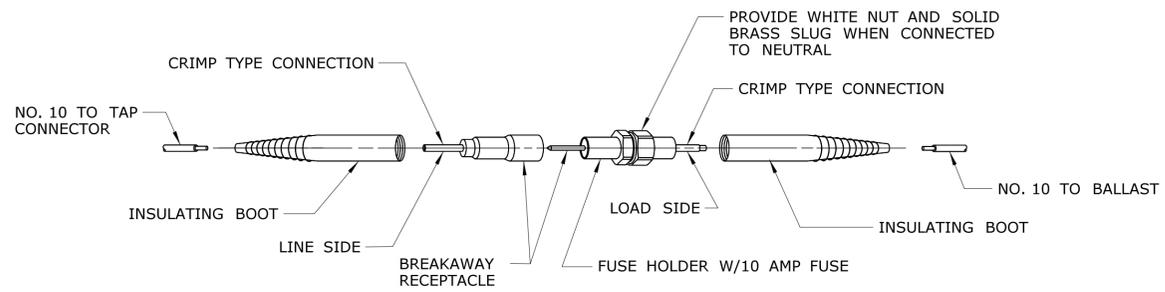
Plotted Date: 12/29/2016



CABLE IN DUCT TERMINATION AT LIGHT STANDARD BASE, HANDHOLE AND CAST IRON JUNCTION BOX

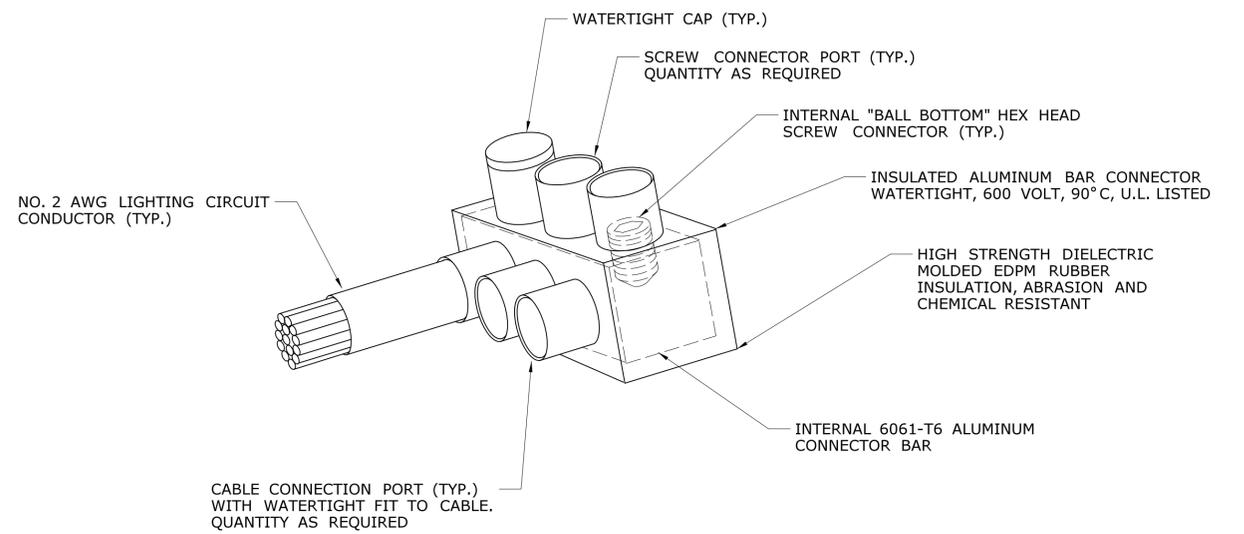


3 PHASE 3 WIRE SYSTEM



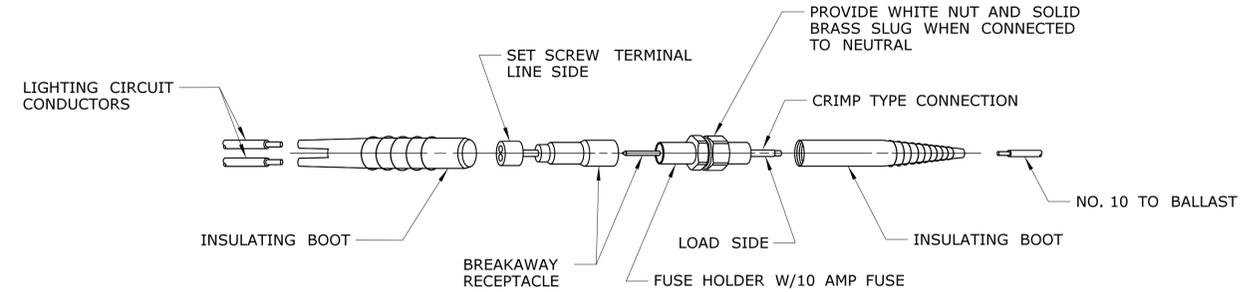
BREAKAWAY FUSE CONNECTOR

TO BE USED WITH TWIN LUMINAIRE LIGHT STANDARDS (4 REQUIRED PER LIGHT STANDARD) AND UNDERBRIDGE LUMINAIRES



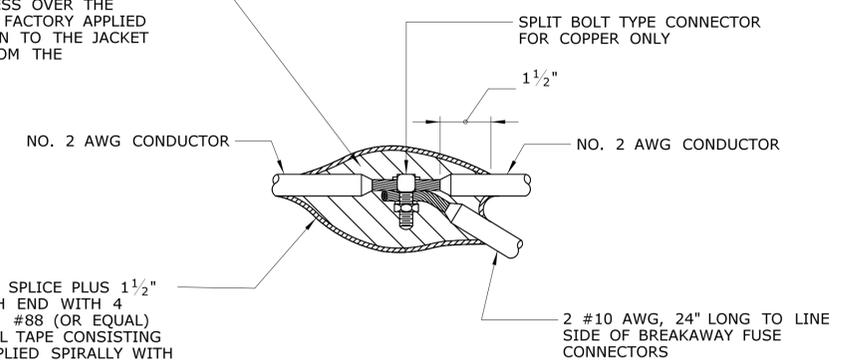
WATERTIGHT CONNECTOR

TO BE USED IN HANDHOLES AND JUNCTION BOXES



BREAKAWAY FUSE CONNECTOR

APPLY RUBBER SPLICING TAPE WITH APPROX. 50% OVERLAP TO A THICKNESS OVER THE CONNECTOR 1 1/2 TIMES THE FACTORY APPLIED INSULATION AND TAPER DOWN TO THE JACKET AT A POINT APPROX. 1 1/2" FROM THE EDGE OF PENCIL



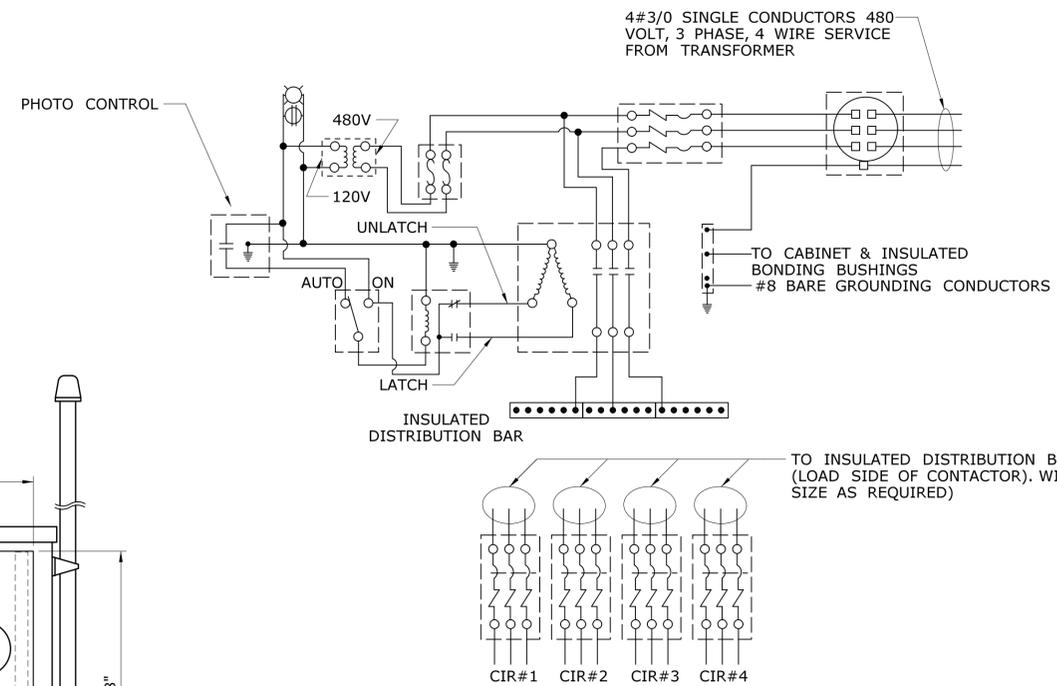
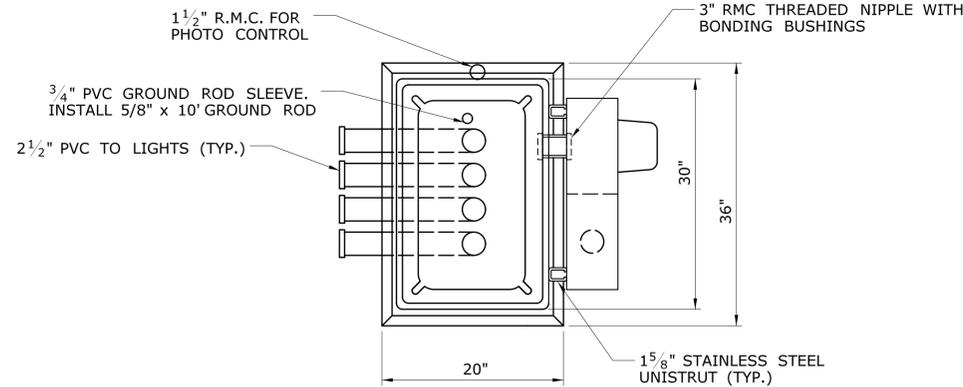
TAP CONNECTOR

TO BE USED W/TWIN LUMINAIRE LIGHT STANDARDS

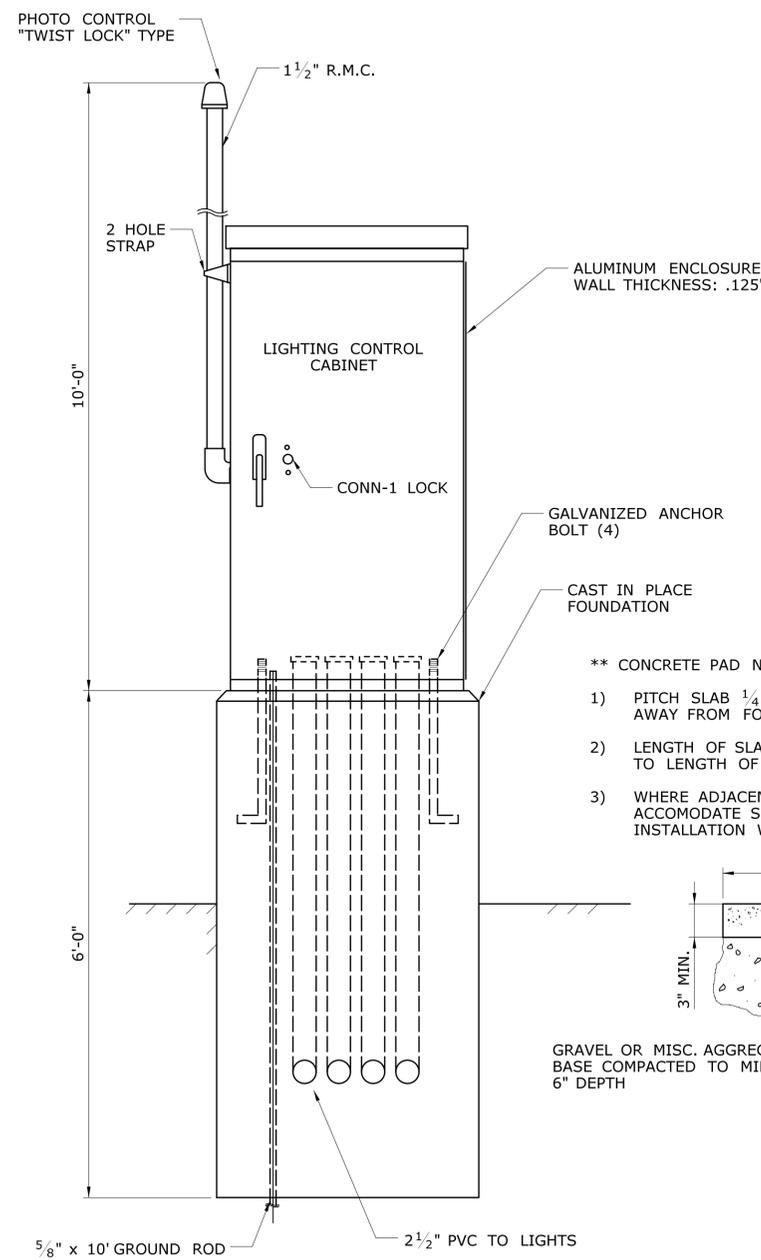
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: MSB CHECKED BY: JA NO SCALE	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...ELECTRICAL CONNECTIONS.dgn	SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY: DATE ISSUED: 1/1/2017	PROJECT TITLE: - - -	TOWN: - - DRAWING TITLE: ELECTRICAL CONNECTIONS	PROJECT NO. - DRAWING NO. - SHEET NO. -
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 12/29/2016			

NOTES:

- 1) UTILITY SERVICE AND METER INSTALLATION SHALL FOLLOW THE LATEST GUIDELINES OF THE SERVING UTILITY COMPANY AS FOLLOWS:
EVERSOURCE: "INFORMATION & REQUIREMENTS FOR ELECTRIC SERVICE SUPPLY BELOW 600 VOLTS".
UNITED ILLUMINATING: "GUIDEBOOK OF REQUIREMENTS FOR ELECTRIC SERVICE".
- 2) ALL PVC CONDUIT SHALL BE SCHEDULE 80.
- 3) FOUNDATION SHALL BE CAST-IN-PLACE AND PROPERLY SIZED FOR THE APPROVED CABINET DIMENSIONS.

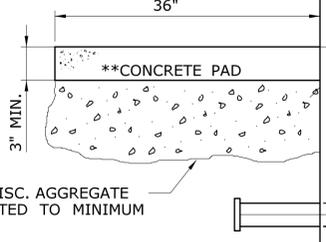


WIRING DIAGRAM

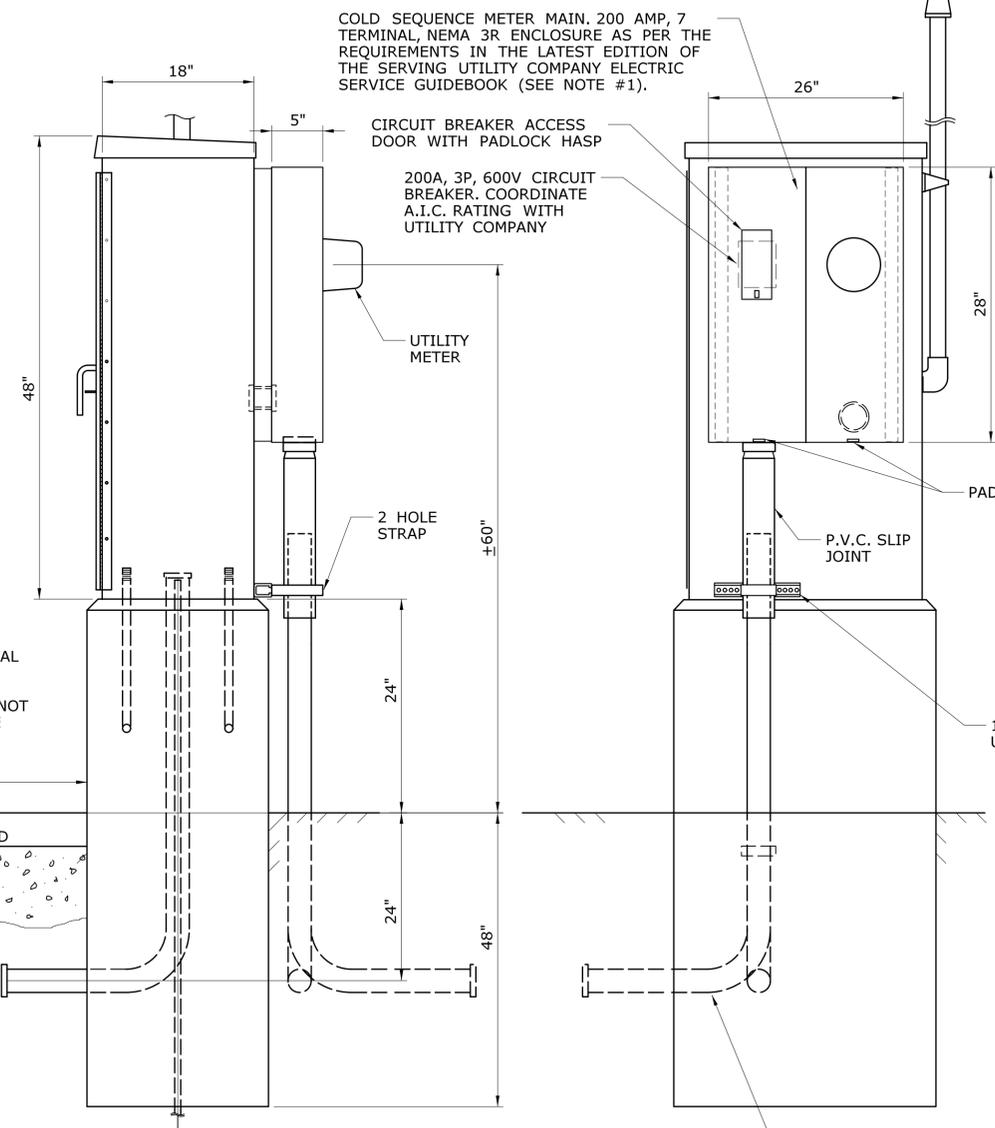


FRONT VIEW

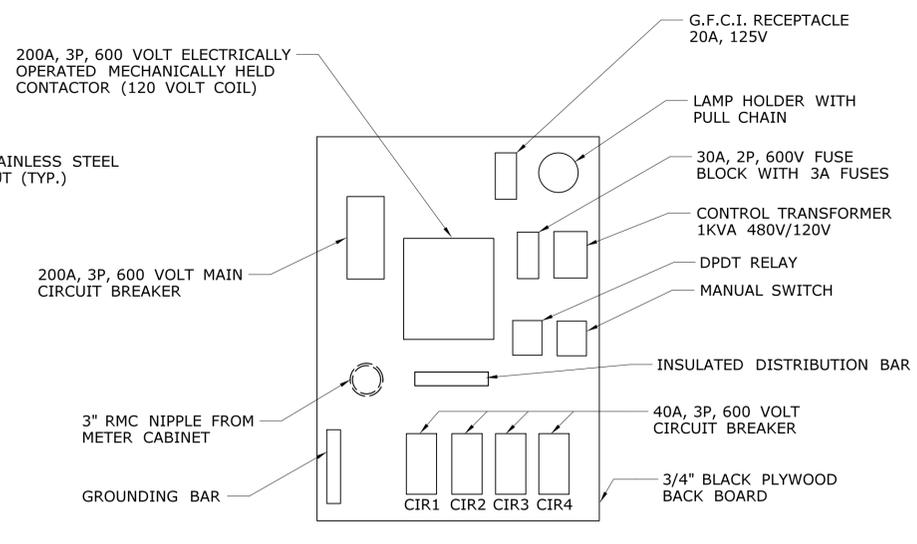
- ** CONCRETE PAD NOTES:**
- 1) PITCH SLAB 1/4"/FT AWAY FROM FOUNDATION
 - 2) LENGTH OF SLAB SHALL BE EQUAL TO LENGTH OF FOUNDATION
 - 3) WHERE ADJACENT SLOPE DOES NOT ACCOMODATE SLAB, COORDINATE INSTALLATION WITH ENGINEER



SERVICE ENTRANCE AND CABINET TYPE I

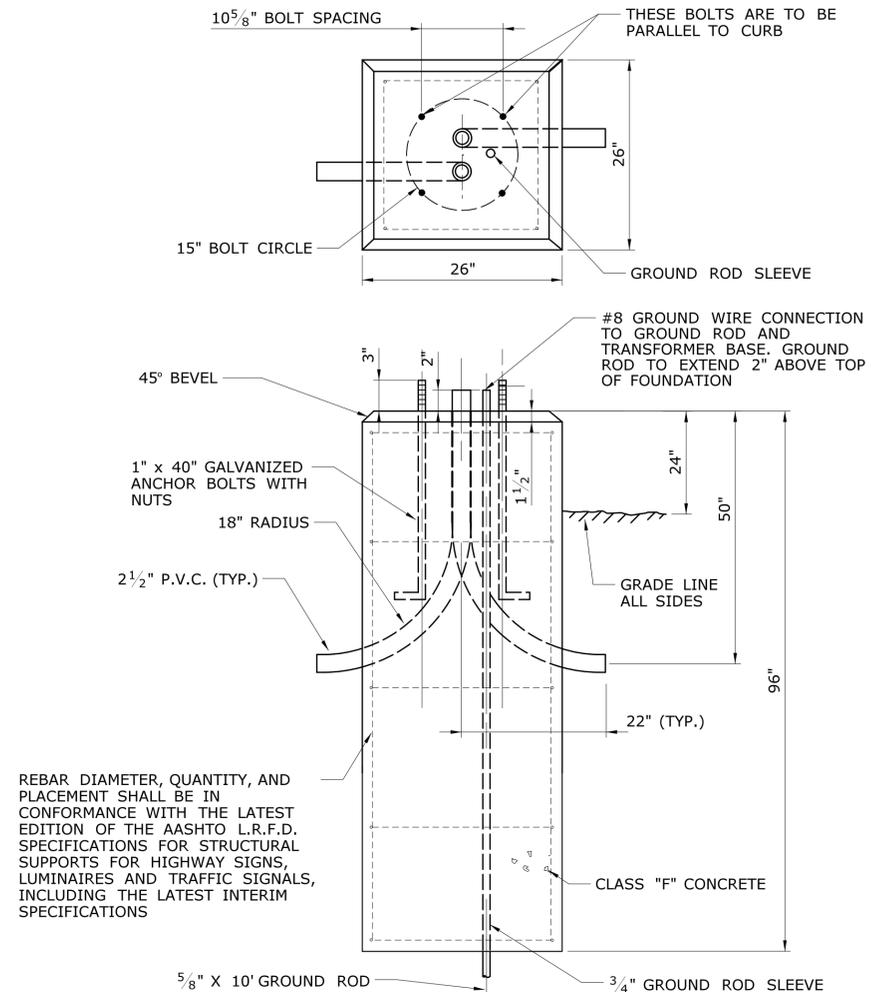


BACK VIEW

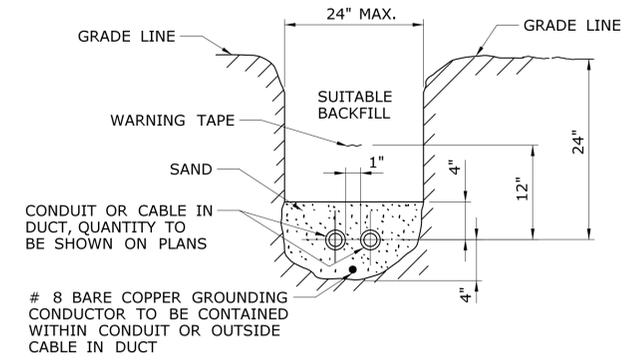


PANEL LAYOUT - SERVICE CABINET

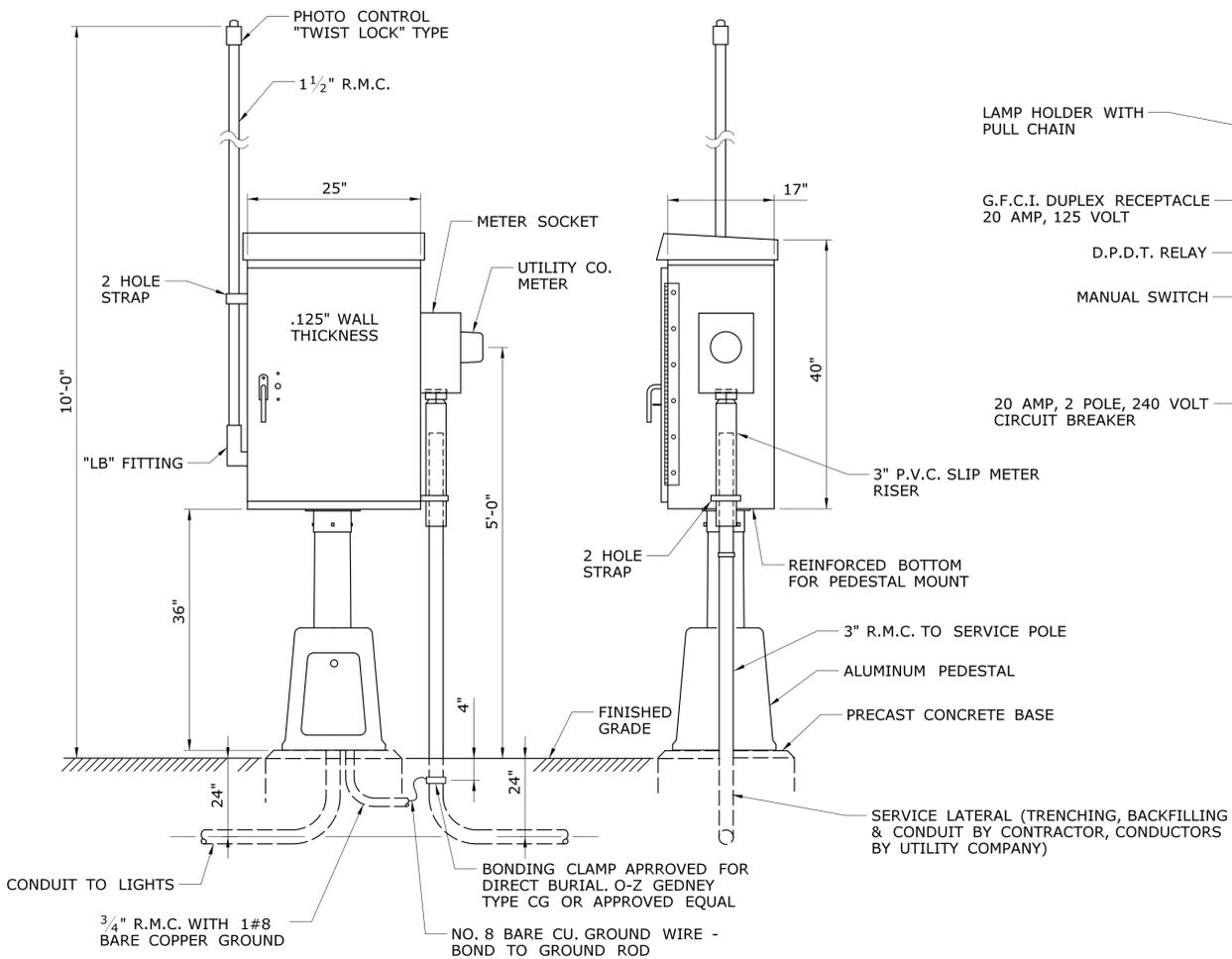
DESIGNER/DRAFTER: -		<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/BLOCK: -	PROJECT TITLE: -	TOWN: -	PROJECT NO. -
CHECKED BY: -			<p>OFFICE OF ENGINEERING</p>	APPROVED BY: -		
NO SCALE		Filename: ...SERVICE ENTRANCE & CABINET - TYPE I.dgn	ISSUE DATE: 1/1/17			SHEET NO. -
<p>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</p>						<p>DRAWING TITLE: SERVICE ENTRANCE AND CABINET - TYPE I</p>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 12/29/2016		



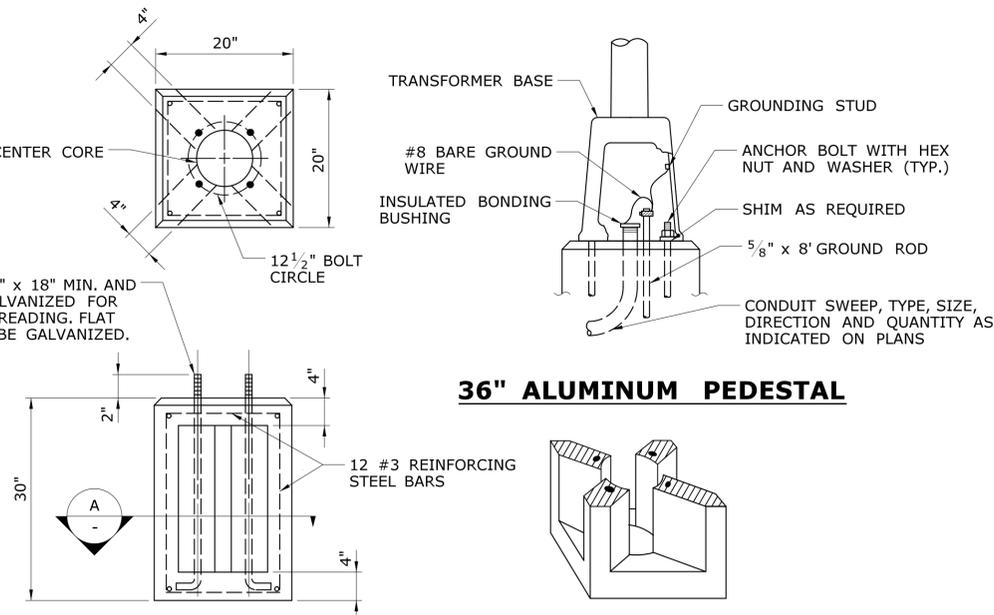
**LIGHT STANDARD FOUNDATION - TYPE I
(FOR PARKING LOT LIGHT STANDARDS)**



BURIED CONDUIT OR CABLE IN DUCT

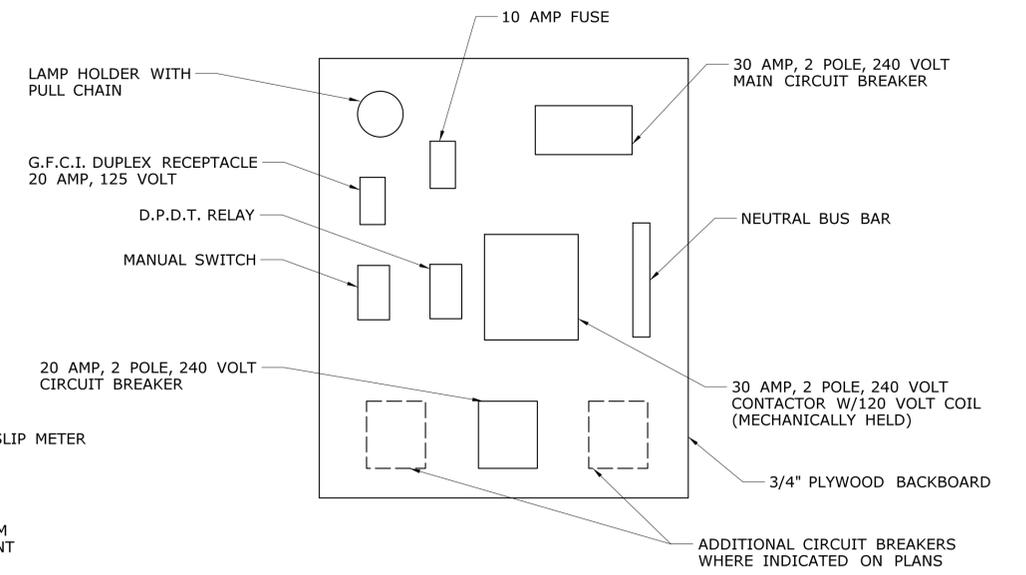


SERVICE ENTRANCE AND CABINET TYPE II

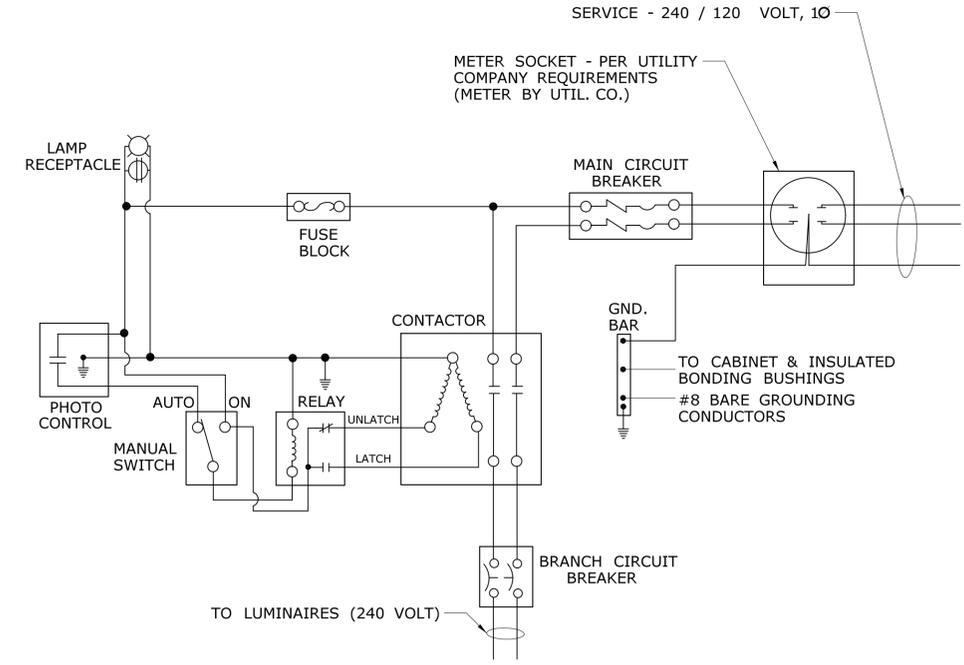


36" ALUMINUM PEDESTAL

PRECAST PEDESTAL BASE - TYPE I

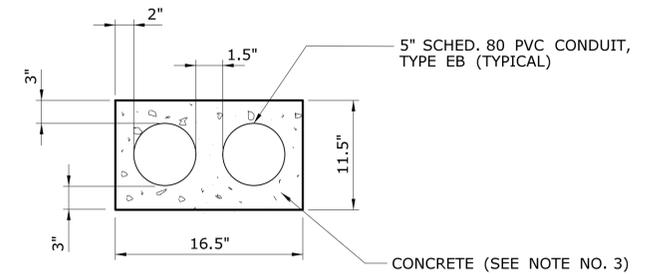
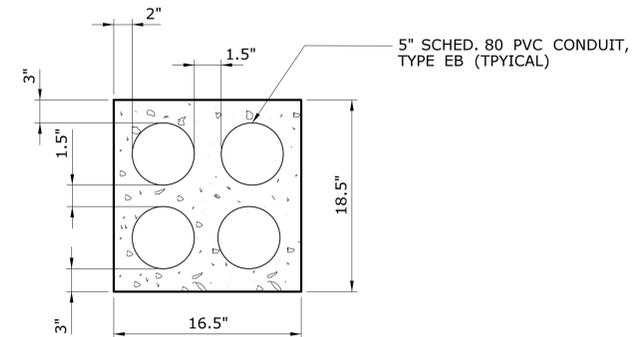
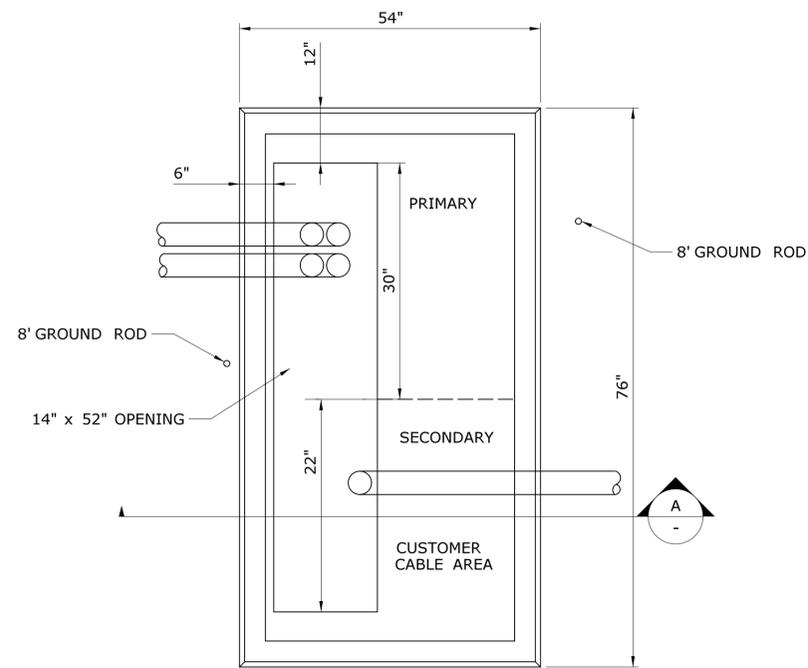


PANEL LAYOUT

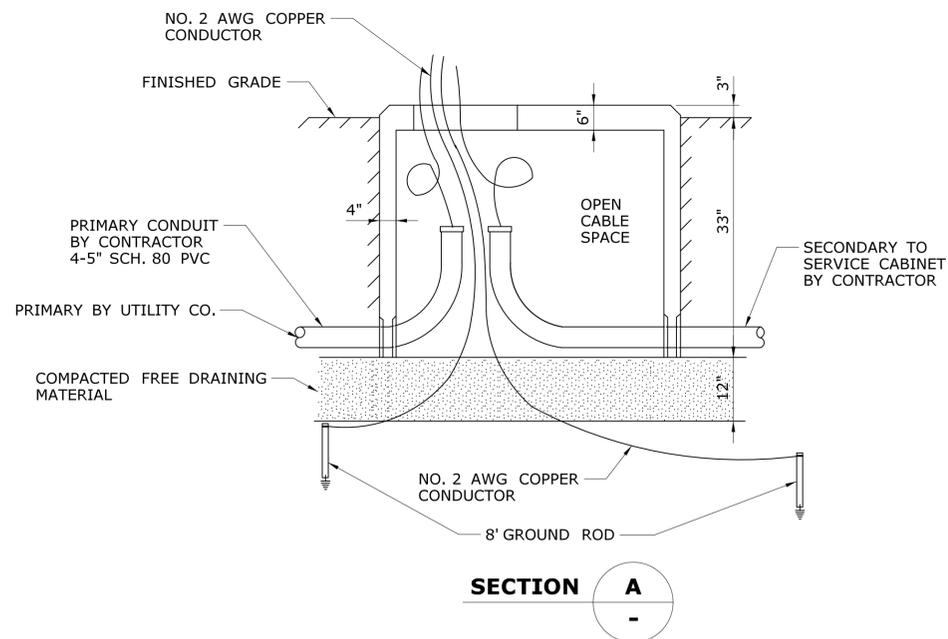


WIRING DIAGRAM

DESIGNER/DRAFTER:	CHECKED BY:	NO SCALE	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	OFFICE OF ENGINEERING	PROJECT TITLE:	TOWN:	PROJECT NO.:
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 12/29/2016	Signature/Block:	APPROVED BY:	DRAWING TITLE:	DRAWING NO.:
							COMMUTER PARKING LOT LIGHTING DETAILS	SHEET NO.:



CONDUIT BANK CONSTRUCTION



PRECAST TRANSFORMER PAD

CONDUIT BANK NOTES:

1. CONDUIT BANK INSTALLATION SHALL CONFORM TO EVERSOURCE SPECIFICATIONS AND REQUIREMENTS (DTR 73.209) OR MOST RECENT REVISION.
2. MINIMUM COVER FROM TOP OF CONDUIT BANK TO PAVEMENT OR EARTH SURFACE SHALL BE 24".
3. CONCRETE SHALL BE 2500 PSI, 1#2" MAXIMUM STONE, 6"-9" SLUMP OF SUCH CONSISTENCY THAT SPADING WILL ENSURE THE FLOW OF CONCRETE BETWEEN AND UNDER THE INDIVIDUAL DUCTS, BUT NOT SO WET AS TO FLOAT THE DUCTS. FOR TIER BUILDUP CONSTRUCTION A STIFFER CONSISTENCY SHOULD BE USED.

TRANSFORMER PAD NOTES:

1. TRANSFORMER PAD AND INSTALLATION SHALL CONFORM TO THE FOLLOWING EVERSOURCE SPECIFICATIONS AND REQUIREMENTS:
 DTR 42.047
 DTR 42.061
 DTR 58.301
 SPC P-015 & P-016
2. CONCRETE 35 MPa AT 28 DAYS, STEEL # 4 BARS, ASTM A615 GRADE 40.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER: **MSB**
 CHECKED BY: **JA**
 NO SCALE



SIGNATURE/BLOCK: **OFFICE OF ENGINEERING**
 APPROVED BY: _____ DATE: _____
 DATE ISSUED: 1/1/2017

PROJECT TITLE: _____

TOWN: _____
 DRAWING TITLE: **UTILITY TRANSFORMER PAD**

PROJECT NO. _____
 DRAWING NO. _____
 SHEET NO. **\$\$\$**

***NOTE:**

TYPE 2 CONDUIT EXPANSION FITTINGS SHALL BE REQUIRED AT ALL BRIDGE EXPANSION JOINTS. TYPE 2 CONDUIT EXPANSION FITTINGS ARE SUITABLE AT ALL BRIDGE JOINT LOCATIONS WITH TOTAL LONGITUDINAL THERMAL MOVEMENTS OF 8" OR LESS AND TRANSVERSE MOVEMENTS OF 1.5" OR LESS.

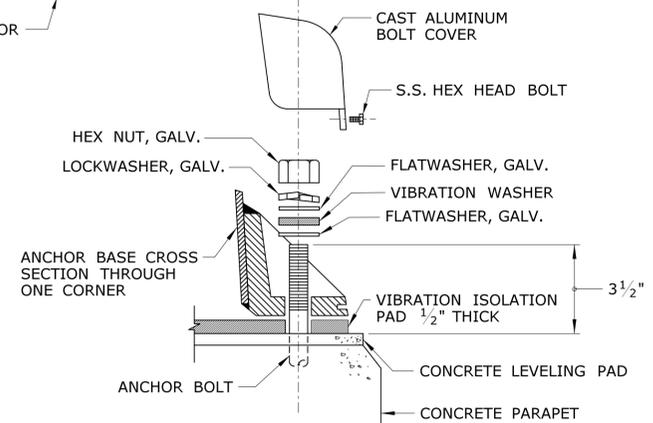
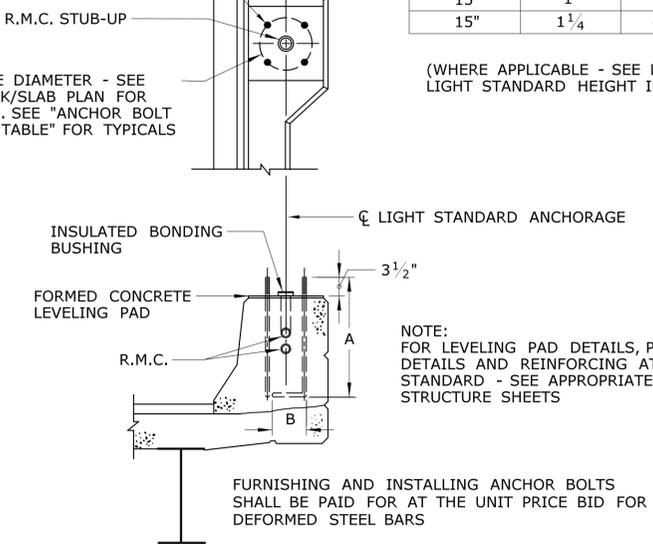
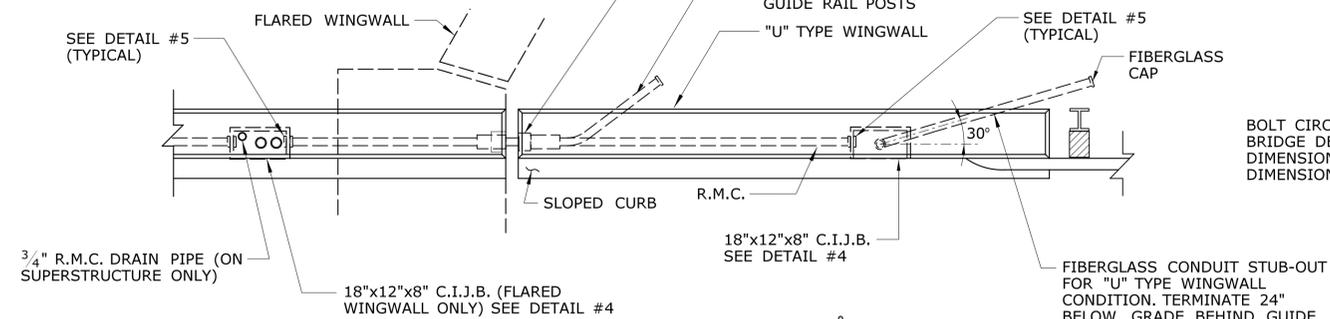
TYPE 2 CONDUIT EXPANSION FITTING FOR "U" TYPE WINGWALL CONDITION (SEE NOTE*). FOR FITTING DETAILS SEE SHEET: "CONDUIT EXPANSION FITTINGS"

FIBERGLASS CONDUIT STUB-OUT FOR FLARED WINGWALL CONDITION, TERMINATE 24" BELOW GRADE, BEHIND GUIDE RAIL POSTS

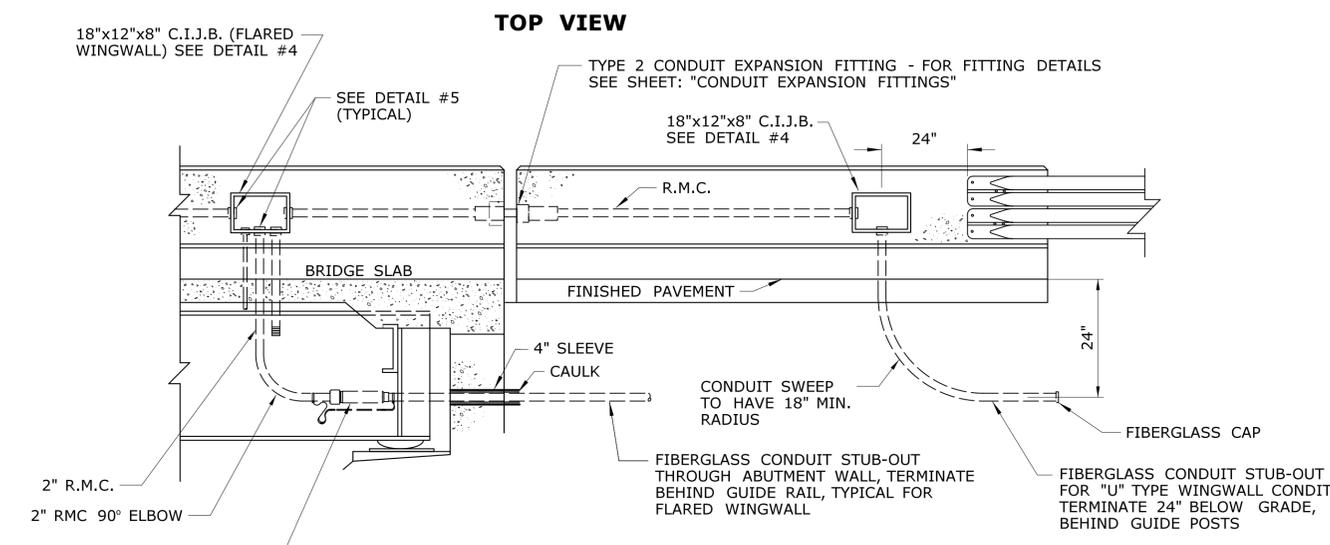
4 ANCHOR BOLTS - SEE "ANCHOR BOLT DIMENSION TABLE"

ANCHOR BOLT DIMENSION TABLE				
BOLT CIRCLE DIAMETER	ANCH. BOLT DIAMETER	A	B	TYPICAL LIGHT STANDARD HEIGHT
11"	1"	36"	4"	30' - 35'
15"	1"	36"	4"	40'
15"	1 1/4"	42"	6"	50'

(WHERE APPLICABLE - SEE LIGHTING PLANS FOR LIGHT STANDARD HEIGHT INFORMATION)

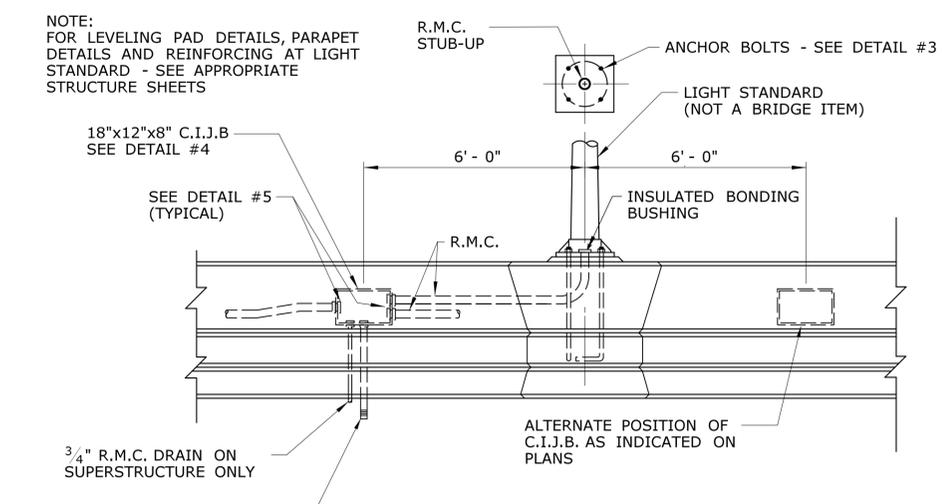


7) ANCHOR BASE LIGHT STANDARD MOUNTING HARDWARE



1) CONDUIT PARAPET TO FILL

3) PARAPET TREATMENT AT LIGHT STANDARD

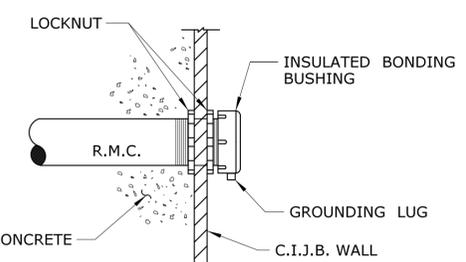


2) LIGHT STANDARD ON PARAPET WALL

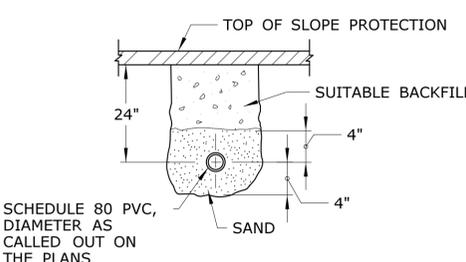
NOTE: PROVIDE DRILLED SLIPHOLES IN C.I.J.B. FOR RMC AND FGC AS REQUIRED

INSTALL RMC CONDUIT STUB-DOWN IN ALL JUNCTION BOXES ON SUPERSTRUCTURE. DIAMETER OF STUB-DOWN CONDUIT TO EQUAL DIAMETER OF CONDUIT IN PARAPET WALL

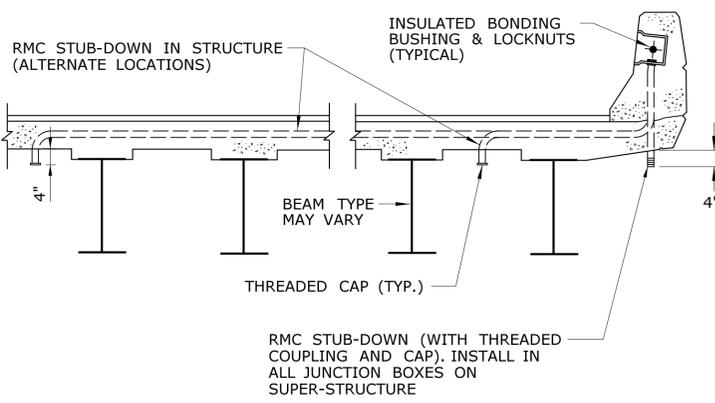
4) JUNCTION BOX INSTALLATION



5) RMC ENTRY INTO CAST IRON JUNCTION BOX



6) CONDUIT UNDER SLOPE PROTECTION



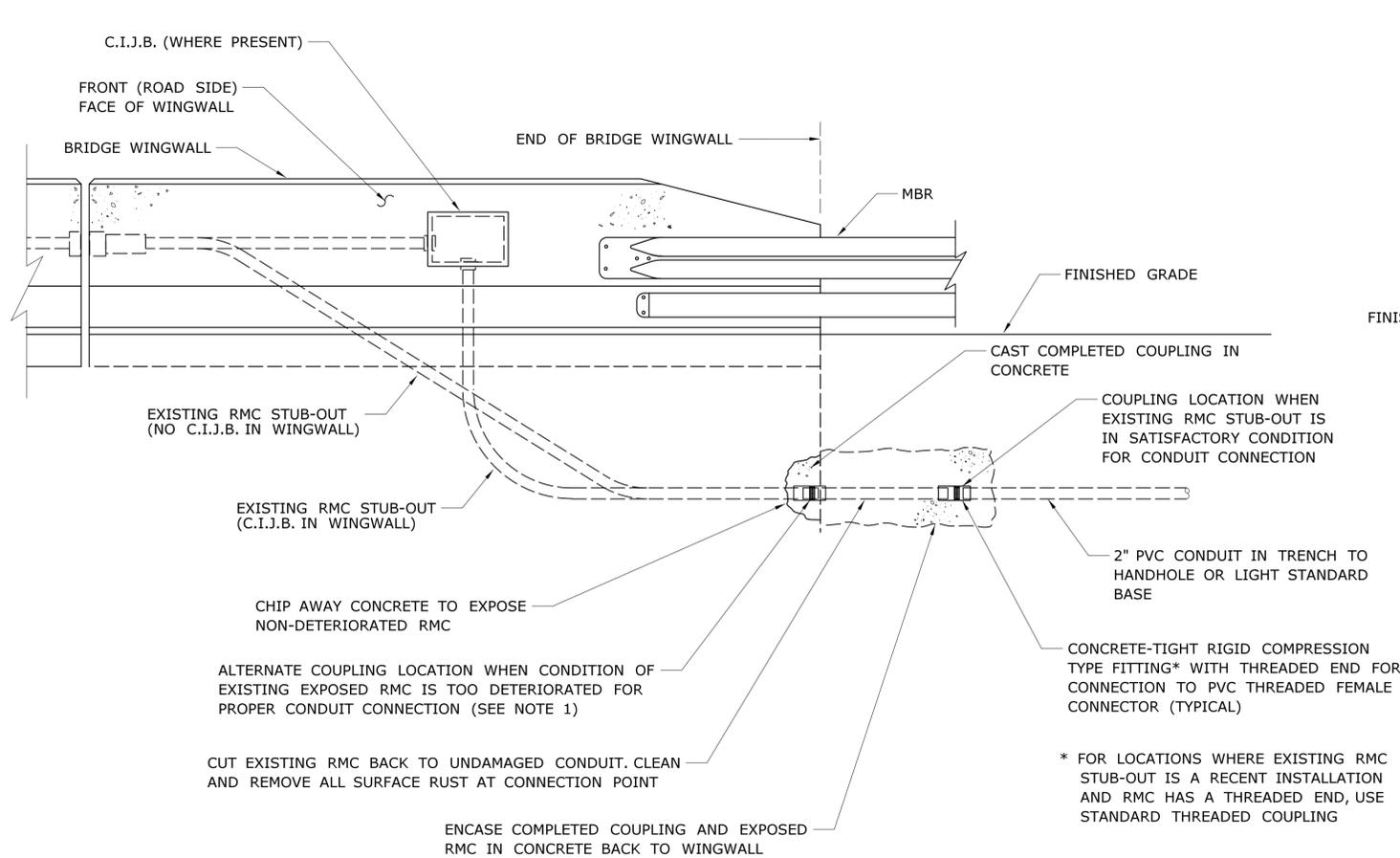
8) SERVICE TO LUMINAIRE UNDER STRUCTURE

- NOTES:
- SEE BRIDGE PLANS FOR SPECIFIC CONSTRUCTION DETAILS AND LOCATIONS.
 - DIAMETER OF RIGID METAL CONDUIT AND FIBERGLASS CONDUIT SHALL BE AS CALLED FOR ON BRIDGE PLANS.
 - CONDUIT STUB-UPS TO LIGHT STANDARDS, STUB-OUTS TO FILL, AND STUB-DOWNS TO UNDERBRIDGE LUMINAIRES, SHALL BE OF THE SAME DIAMETER AS THE R.M.C. CAST IN THE PARAPET WALL.
 - INSTALL ONE CONDUIT STUB-DOWN IN ALL JUNCTION BOXES ON SUPERSTRUCTURE. ADDITIONAL STUB-DOWNS SHALL BE INSTALLED WHERE INDICATED ON THE PLANS.
 - FIBERGLASS CONDUIT (FGC) SHALL BE EXTRA-HEAVY WALL TYPE (0.250" WALL THICKNESS).
 - SEE BRIDGE DECK/SLAB PLANS FOR LIGHT STANDARD ANCHORAGE BOLT CIRCLE DIAMETER.
 - USE APPLICABLE DETAILS.

DESIGNER/DRAFTER: MSB	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: -	TOWN: -	PROJECT NO. -
CHECKED BY: JA		APPROVED BY: -	DATE ISSUED: 1/1/2017	DRAWING TITLE: STRUCTURE RELATED ELECTRICAL DETAILS	DRAWING NO. -
NO SCALE	Filename: ...STRUCTURE RELATED ELECTRICAL DETAILS.dgn				SHEET NO. -

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 12/29/2016

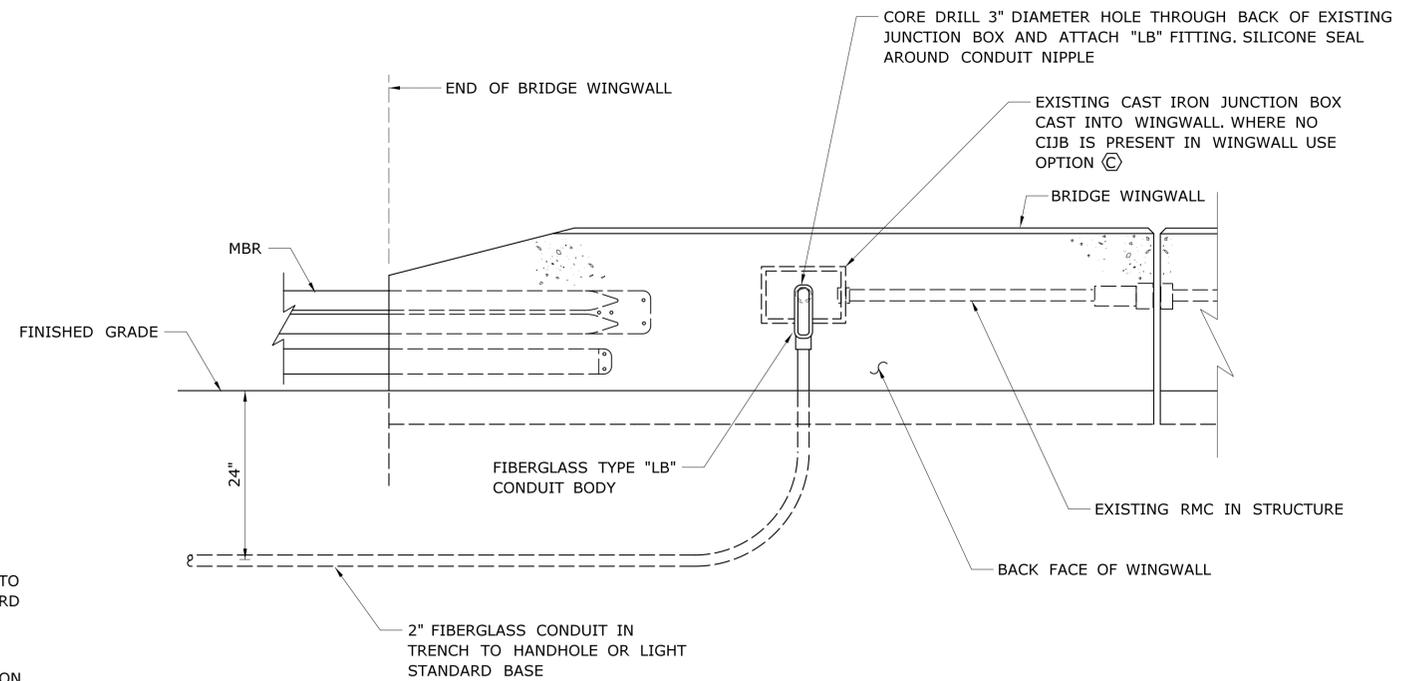


A CONDUIT CONNECTION TO EXISTING RMC STUB-OUT (SEE NOTE 1)

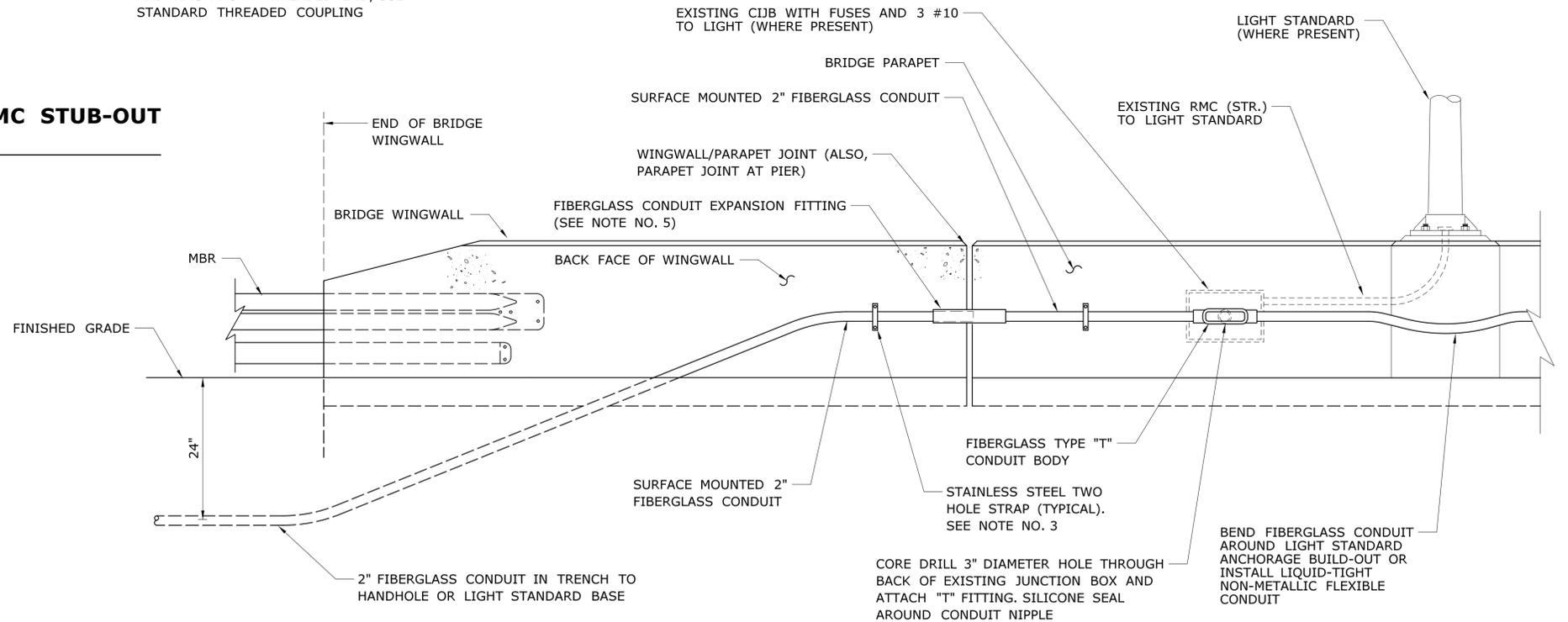
NOTES:

- 1) IN LOCATIONS WHERE THE EXISTING EXPOSED RMC STUB-OUT IS DETERIORATED TO SUCH A DEGREE THAT THE CONDUIT CONNECTION CANNOT BE PROPERLY MADE, THE CONTRACTOR HAS THREE INSTALLATION OPTIONS AS FOLLOWS:
 - I) CHIP AWAY EXISTING CONCRETE WINGWALL MATERIAL TO EXPOSE NON-DETERIORATED RMC AS SHOWN IN DETAIL (A).
 - II) CARRY OUT CONDUIT CONNECTION AS SHOWN IN DETAIL (B).
 - III) CARRY OUT CONDUIT CONNECTION AS SHOWN IN DETAIL (C).
- 2) FIBERGLASS CONDUIT SHALL BE "EXTRA HEAVY" WALL TYPE WITH A WALL THICKNESS OF 0.250".
- 3) FIBERGLASS CONDUIT SUPPORT SPACING SHALL NOT EXCEED 3'-0" AS PER N.E.C. 352.30(B).
- 4) ALL CONDUIT BEAM CLAMPS AND ATTACHMENT HARDWARE SHALL BE STAINLESS STEEL.
- 5) INSTALL ONE FIBERGLASS CONDUIT EXPANSION FITTING EVERY 50' OF CONDUIT LENGTH, AND AT ALL BRIDGE EXPANSION JOINTS.
- 6) 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.
- 7) COST OF CONCRETE REMOVAL AND CONCRETE ENCASEMENT SHALL BE COVERED UNDER THE COST OF THE CONDUIT.
- 8) COST OF CORE DRILLING INTO THE BACK OF A C.I.J.B. SHALL BE COVERED UNDER THE ITEM: 0602903A - DRILLING HOLES.
- 9) TRADE SIZE OF PVC AND FIBERGLASS CONDUIT SHALL BE 2" UNLESS OTHERWISE INDICATED ON THE PLANS.

* FOR LOCATIONS WHERE EXISTING RMC STUB-OUT IS A RECENT INSTALLATION AND RMC HAS A THREADED END, USE STANDARD THREADED COUPLING



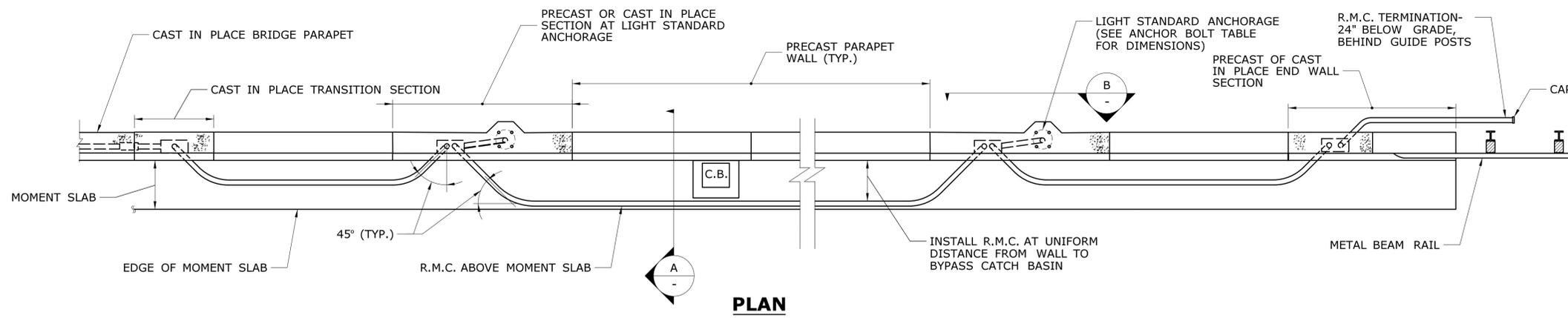
B CONDUIT CONNECTION WHERE EXISTING RMC STUB-OUT IS DETERIORATED



C SURFACE MOUNTED FIBERGLASS CONDUIT

DESIGNER/DRAFTER: MSB		<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/BLOCK:	PROJECT TITLE:	TOWN:	PROJECT NO.
CHECKED BY: JA			<p>OFFICE OF ENGINEERING</p>	APPROVED BY:		
NO SCALE		Filename: ...CONDUIT CONNECTION AT WINGWALL.dgn	DATE ISSUED: 1/1/2017			SHEET NO.
					DRAWING TITLE: CONDUIT CONNECTION AT BRIDGE WINGWALL	

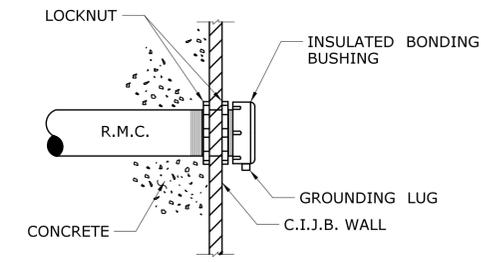
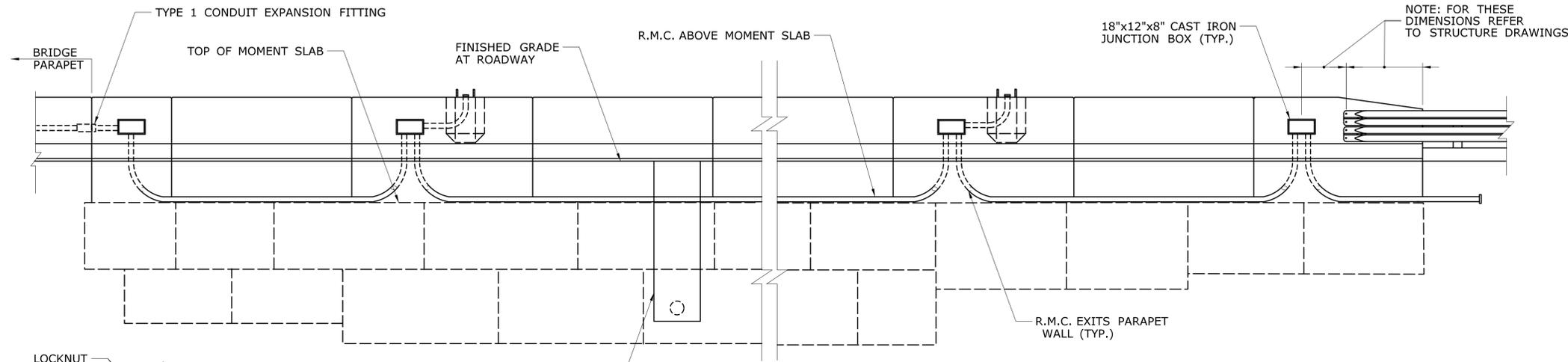
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 12/29/2016



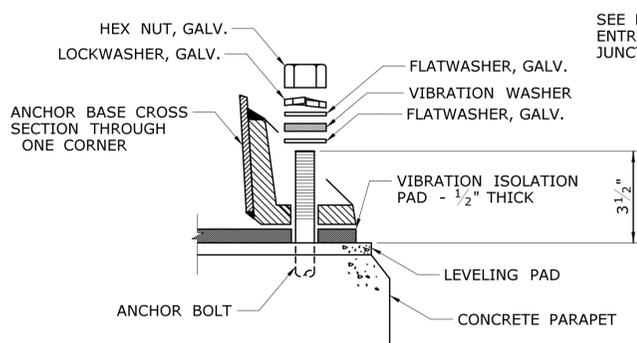
GENERAL NOTES:

- 1) THE CONTRACTOR SHALL INSTALL THE R.M.C. IN SUCH A WAY AS TO MINIMIZE THE NUMBER OF BENDS IN THE CONDUIT BETWEEN ANY TWO PULLING POINTS. TOTAL BENDS IN ANY GIVEN CONDUIT RUN BETWEEN PULLING POINTS SHALL NOT EXCEED 360 DEGREES.
- 2) CONDUIT BENDS SHALL HAVE A RADIUS OF NOT LESS THAN 6 TIMES THE TRADE SIZE OF THE CONDUIT.
- 3) DIAMETER OF CONDUIT SHALL BE AS CALLED FOR ON STRUCTURE PLANS.
- 4) EXPANSION FITTINGS SHALL BE INSTALLED IN R.M.C. AT ALL EXPANSION JOINTS, AND SHALL CONFORM TO THE DETAILS AS SPECIFIED ON ELECTRICAL SHEET: "EXPANSION FITTINGS"
- 5) ALL CONDUIT SECTIONS AND ELBOWS SHALL BE JOINED WITH THREADED COUPLINGS. SET SCREW OR COMPRESSION COUPLINGS WILL NOT BE ALLOWED.
- 6) INSTALLATION OF JUNCTION BOXES, LIGHT STANDARD ANCHORAGES, LOCK NUTS AND BUSHINGS SHALL BE AS SHOWN ON ELECTRICAL DETAIL SHEET.
- 7) FOR LIGHT STANDARD LEVELING PAD DETAILS, PARAPET DETAILS, AND REINFORCING AT LIGHT STANDARD AND JUNCTION BOX, SEE APPROPRIATE STRUCTURE SHEETS.
- 8) SEE RETAINING WALL PLANS FOR SPECIFIC CONSTRUCTION DETAILS AND LOCATIONS.
- 9) ELECTRICAL INSTALLATION SIMILAR FOR ALL PROPRIETARY TYPE WALLS.
- 10) THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF WORKING DRAWINGS FOR REVIEW, WHICH SHALL SHOW THE PLACEMENT OF CONDUIT, JUNCTION BOXES AND LIGHT STANDARD ANCHORAGES ASSOCIATED WITH THE MANUFACTURED RETAINING WALL.

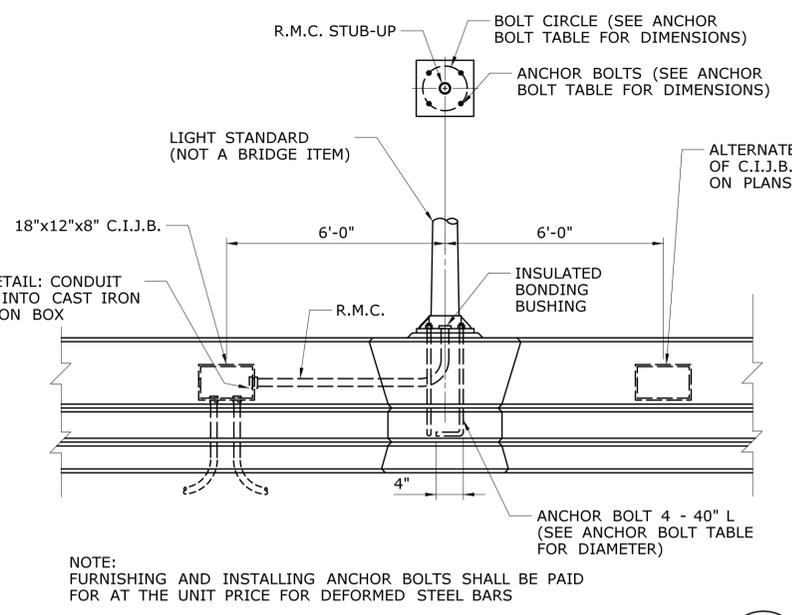
ANCHOR BOLT TABLE		
POLE MTG. HEIGHT	BOLT CIRCLE DIA.	BOLT DIA.
30' - 35'	11"	1"
40'	15"	1"
50'	15"	1 1/4"



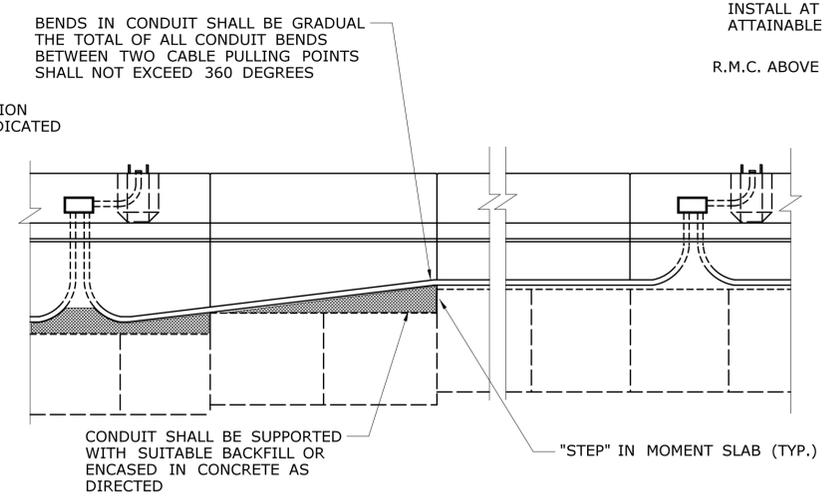
CONDUIT ENTRY INTO CAST IRON JUNCTION BOX



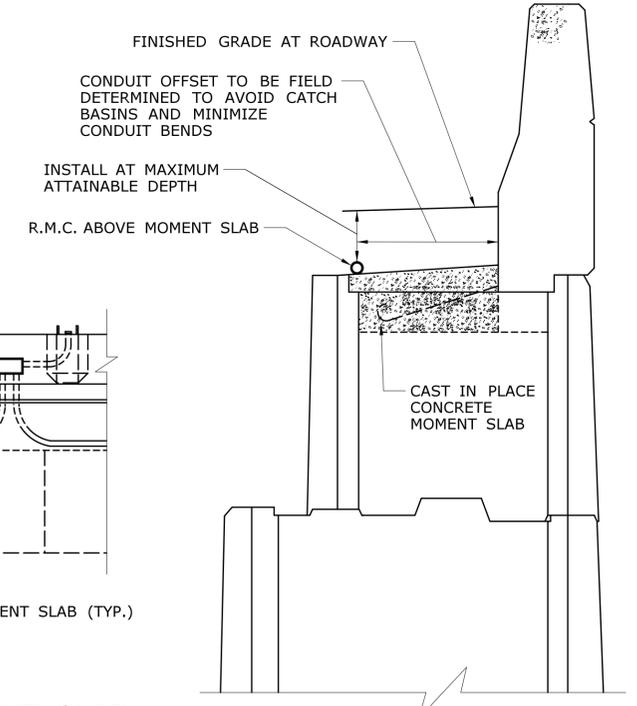
ANCHOR BASE LIGHT STANDARD MOUNTING HARDWARE



LIGHT STANDARD ON PARAPET WALL - VIEW B



CONDUIT TREATMENT AT "STEPPED" MOMENT SLAB

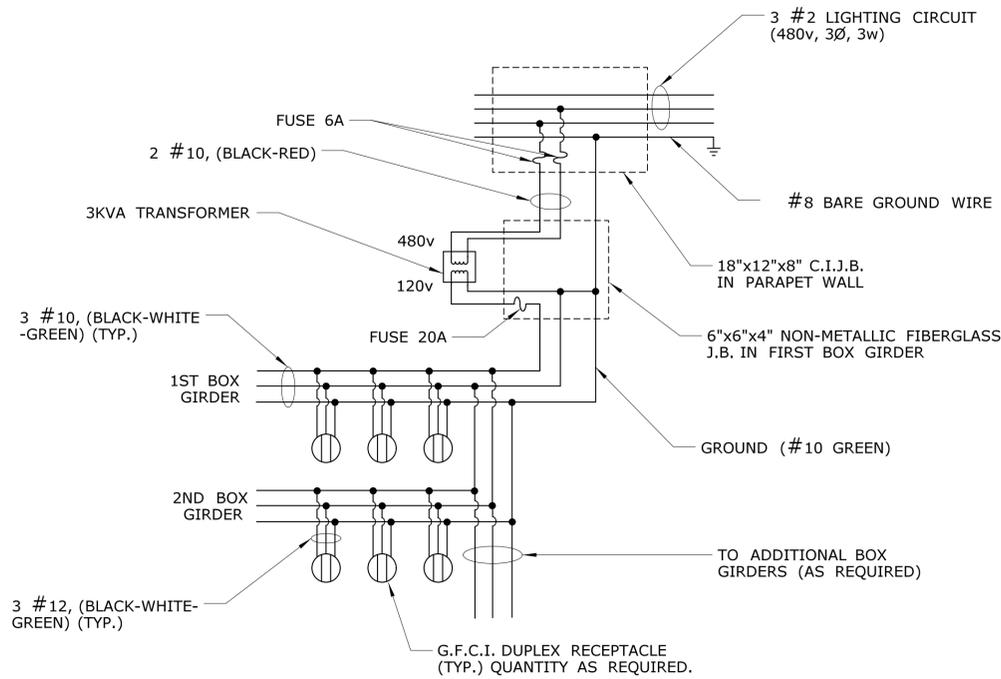


SECTION A

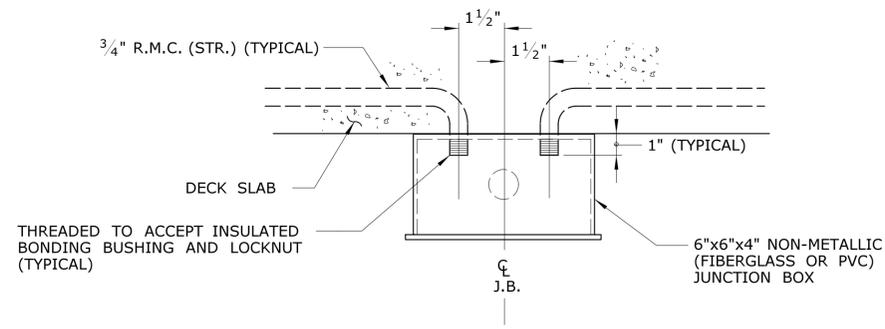
DESIGNER/DRAFTER: MSB	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: -	TOWN: -	PROJECT NO. -
CHECKED BY: JA		APPROVED BY: DATE:	DATE ISSUED: 1/17/2017	DRAWING TITLE: PRECAST RETAINING WALL ELECT. DETAILS	DRAWING NO. -
NO SCALE	File name: ...PRECAST RETAINING WALL ELECTRICAL DETAILS.dgn				

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plotted Date: 12/29/2016

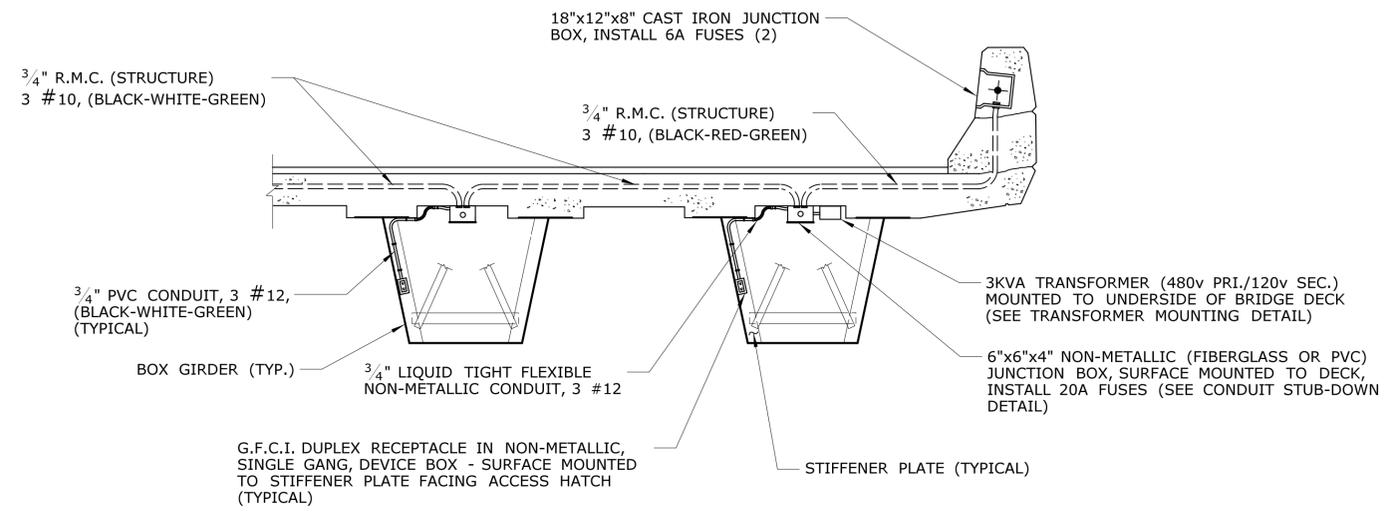


BRIDGE INSPECTION RECEPTACLE WIRING DIAGRAM

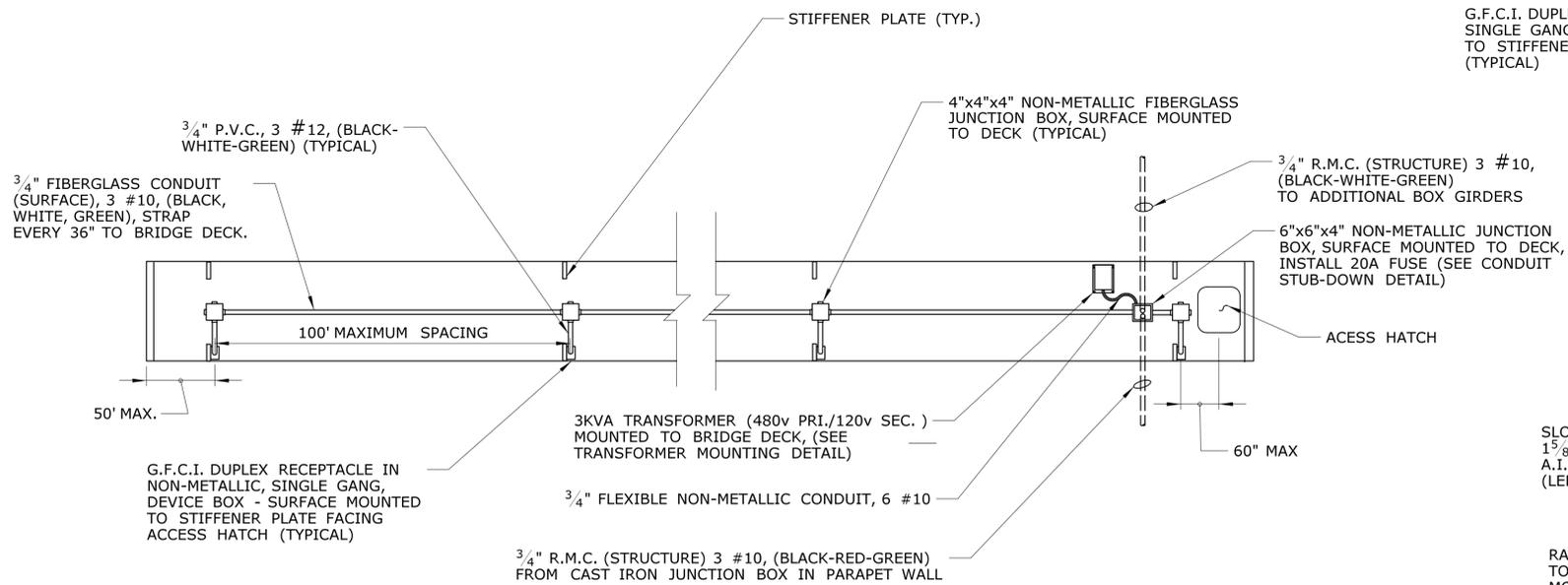


CONDUIT STUB-DOWN DETAIL

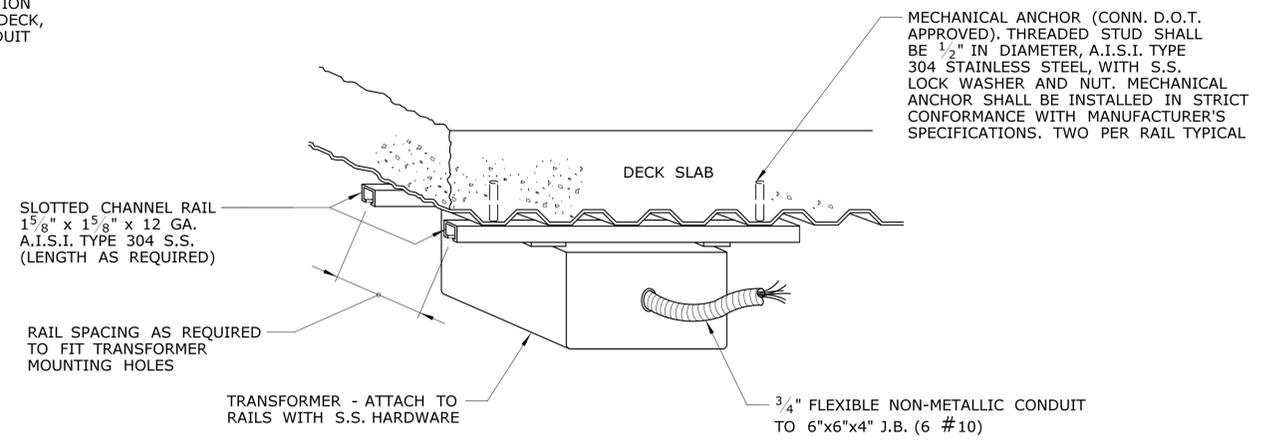
- NOTES:
- 1) LATERAL PLACEMENT OF CONDUIT CAN BE ADJUSTED TO AVOID OBSTRUCTIONS.
 - 2) 3/4" FLEXIBLE NON-METALLIC CONDUIT SHALL BE USED AT ALL LOCATIONS SUBJECT TO MOVEMENT OR EXPANSION.
 - 3) 3/4" FIBERGLASS CONDUIT SHALL BE STANDARD WALL TYPE (0.070" WALL THICKNESS).
 - 4) FOR FIBERGLASS CONDUIT LENGTHS OVER 50', THE CONTRACTOR SHALL INSTALL A CONDUIT EXPANSION FITTING. EXPANSION FITTINGS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S GUIDELINES.
 - 5) SUPPORT SPACING OF FIBERGLASS CONDUIT SHALL NOT EXCEED 3'-0" AS PER N.E.C. 352.30(B).
 - 6) 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.



TYPICAL BRIDGE SECTION

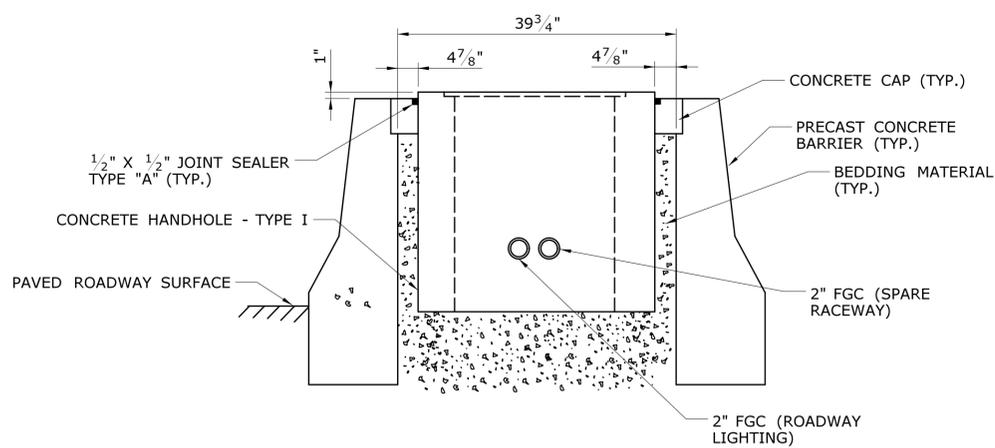


TYPICAL BOX GIRDER (TOP VIEW)

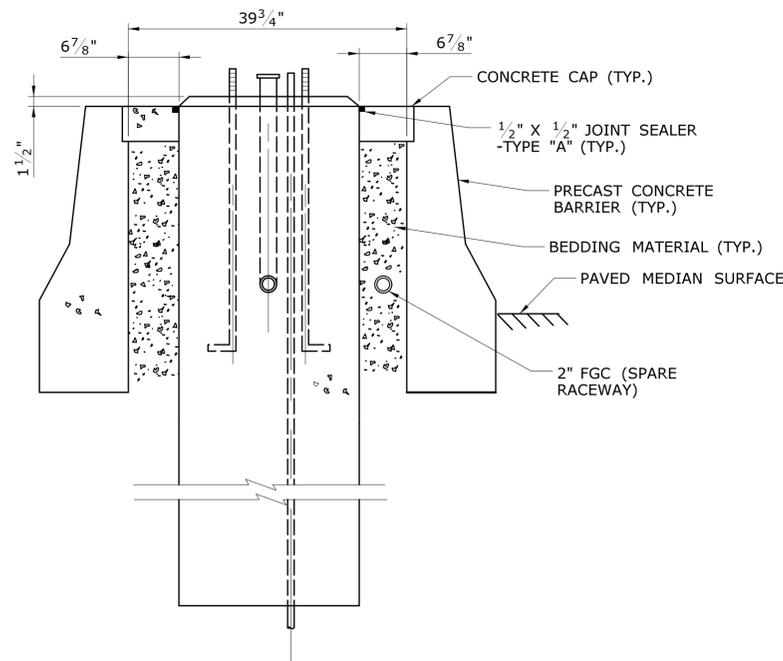


TRANSFORMER MOUNTING DETAIL

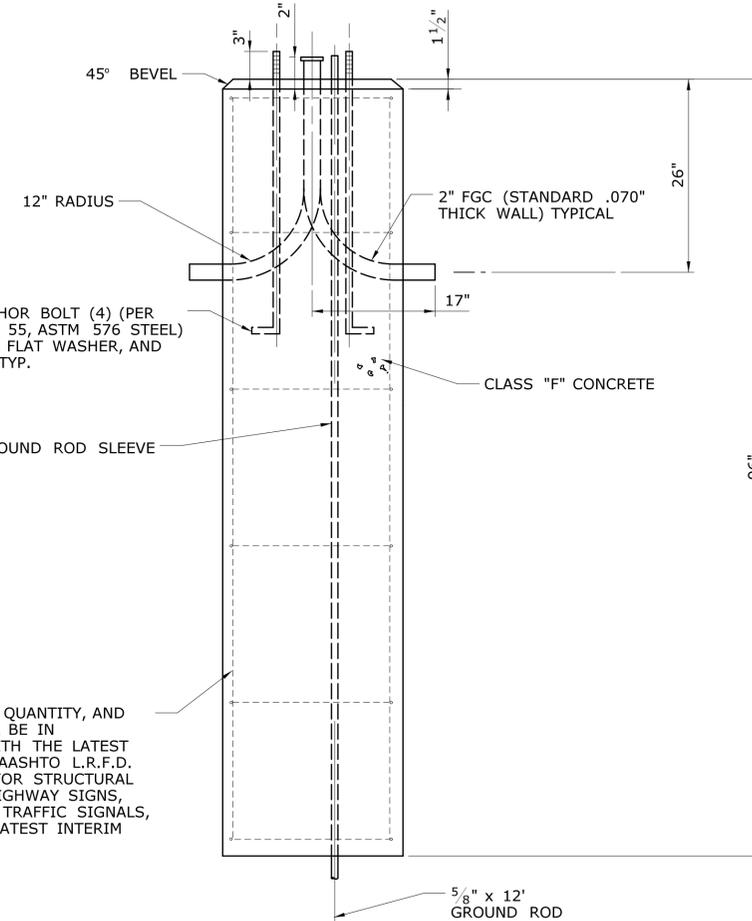
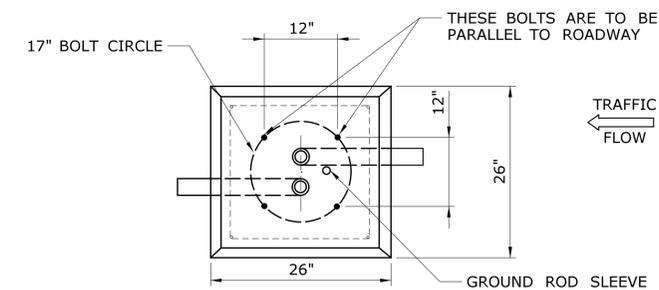
DESIGNER/DRAFTER: MSB		<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/BLOCK:	PROJECT TITLE:	TOWN:	PROJECT NO.:
CHECKED BY: JA			OFFICE OF ENGINEERING			
NO SCALE		APPROVED BY:			DRAWING TITLE:	DRAWING NO.:
Plotted Date: 12/29/2016		DATE ISSUED: 1/1/2017			BRIDGE INSPECTION RECEPTACLES	SHEET NO.:
REV.	DATE	REVISION DESCRIPTION	<p>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</p>			



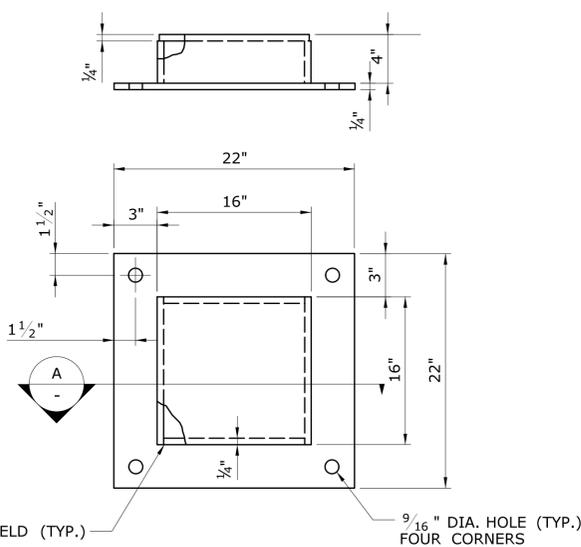
CONCRETE HANDHOLE IN MEDIAN



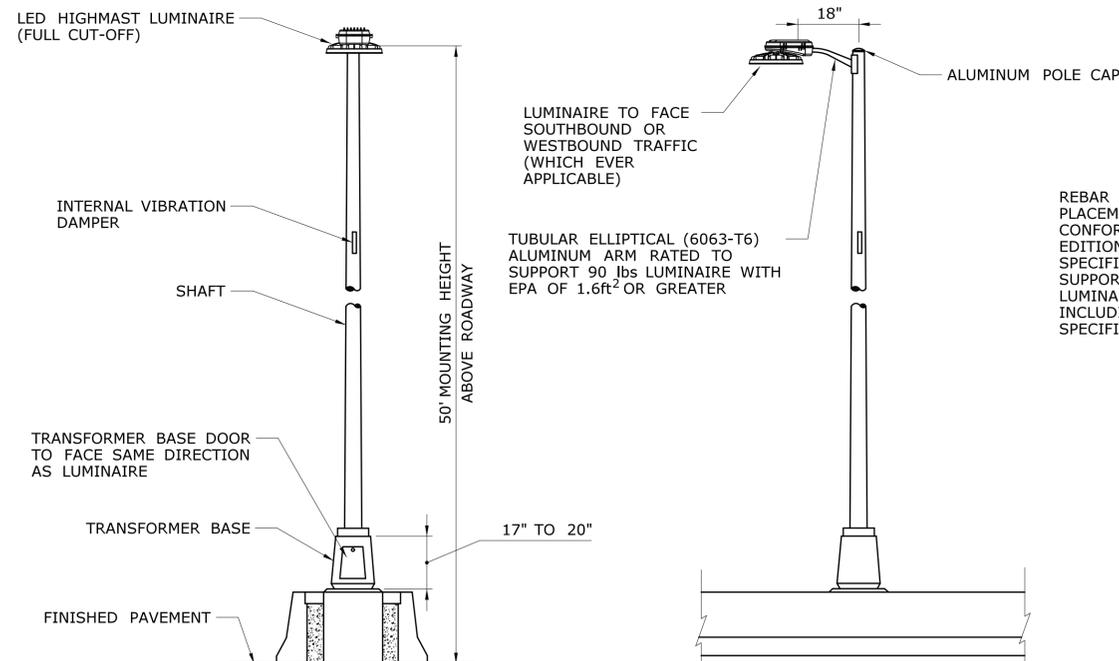
LIGHT STANDARD FOUNDATION IN MEDIAN



LIGHT STANDARD FOUNDATION - TYPE III



SECTION A



MEDIAN MOUNTED LIGHT STANDARD WITH HIGHMAST LUMINAIRE

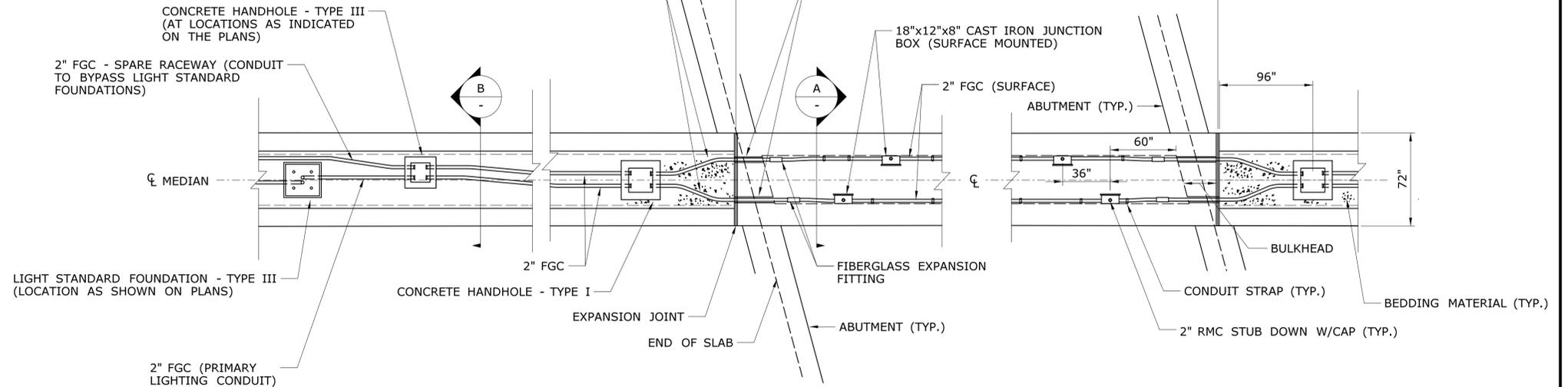
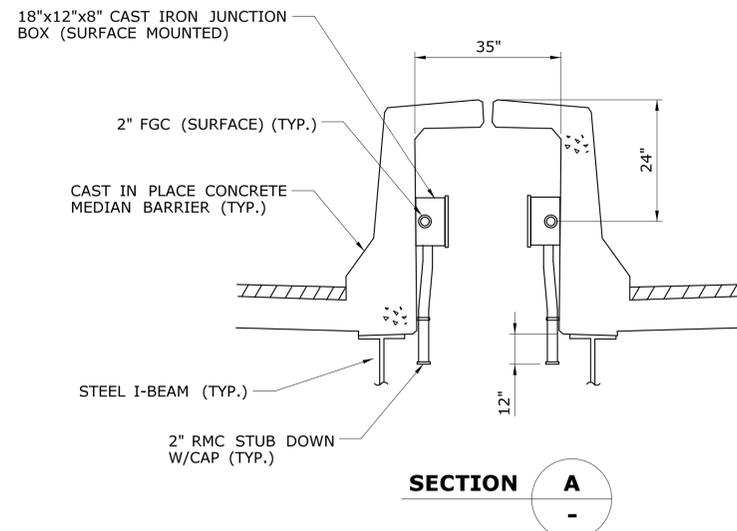
- NOTES:
- 1) STEEL SHALL CONFORM TO ASTM A36 AND SHALL BE GALVANIZED AFTER FABRICATION IN CONFORMANCE WITH ASTM A123
 - 2) WELDING SHALL BE IN CONFORMANCE WITH THE MOST CURRENT AWS REQUIREMENTS

LIGHT STANDARD ANCHORAGE COVER

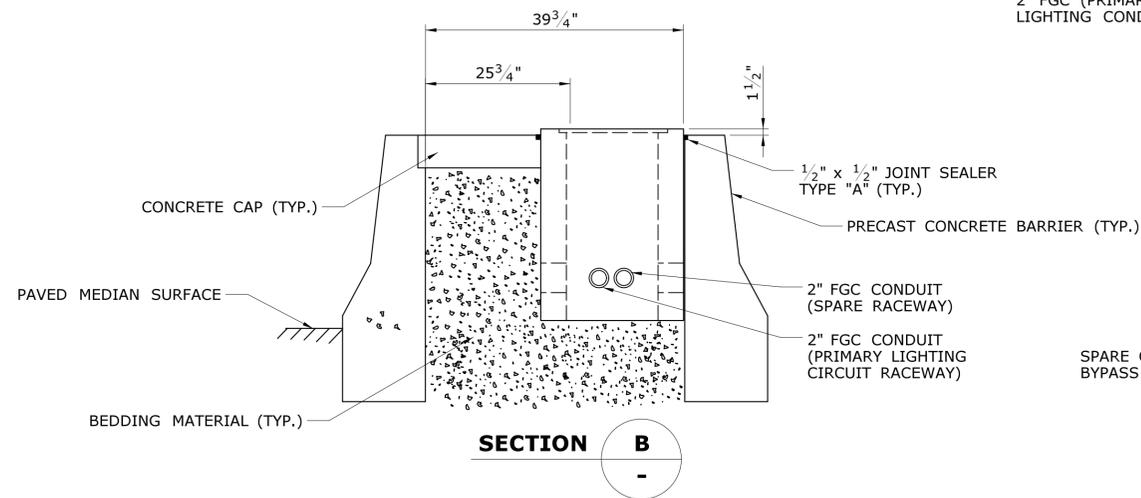
NOTES:

- 1) FIBERGLASS CONDUIT (FGC) SWEEPS SHALL BE STANDARD WALL (.070" WALL THICKNESS) TYPE.
- 2) FIBERGLASS CONDUIT IN MEDIAN FILL SHALL HAVE INTERFERENCE JOINTS PERMANENTLY BONDED WITH ADHESIVE.
- 3) FIBERGLASS CONDUIT ENTERING A CONCRETE HANDHOLE SHALL BE TERMINATED WITH A BELL END.

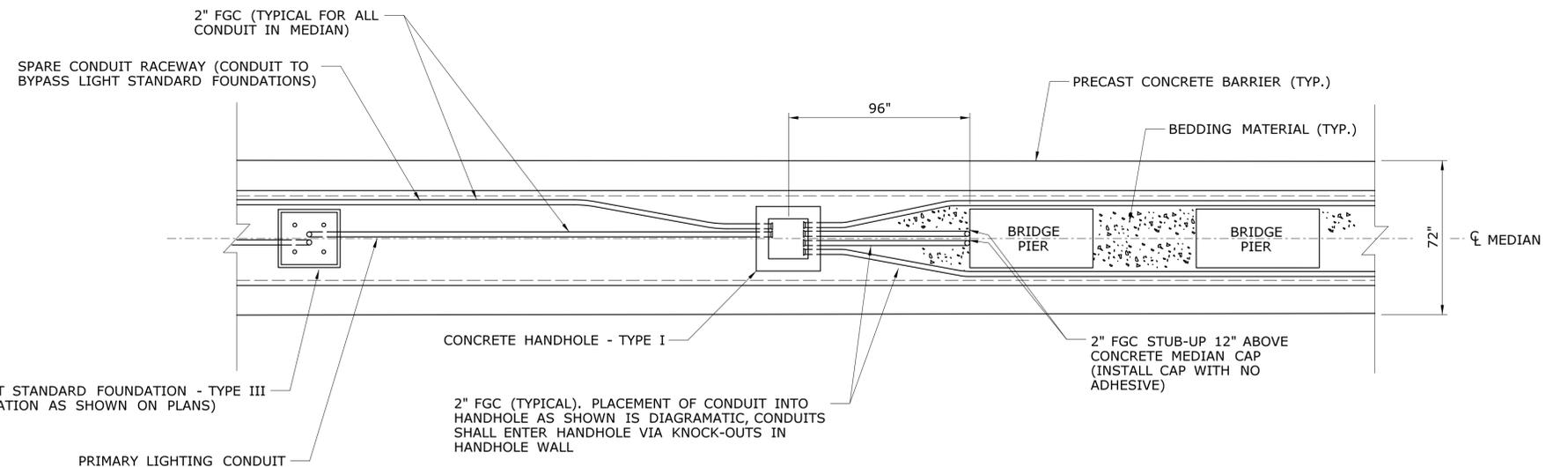
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 12/29/2016	DESIGNER/DRAFTER: MSB	CHECKED BY: JA	NO SCALE	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p> <p>Filename: ...MEDIAN ELECTRICAL DETAILS - 1.dgn</p>	<p>SIGNATURE/ BLOCK:</p> <p>OFFICE OF ENGINEERING</p> <p>APPROVED BY: DATE:</p> <p>DATE ISSUED: 1/1/2017</p>	PROJECT TITLE:	TOWN:	PROJECT NO.		
											DRAWING NO.	-		
											DRAWING TITLE:	MEDIAN ELECTRICAL DETAILS	SHEET NO.	\$\$\$



MEDIAN BARRIER AT OVERPASS - CONDUIT LAYOUT



CONCRETE HANDHOLE - TYPE III IN MEDIAN



MEDIAN BARRIER AT UNDERPASS - CONDUIT LAYOUT

NOTES:

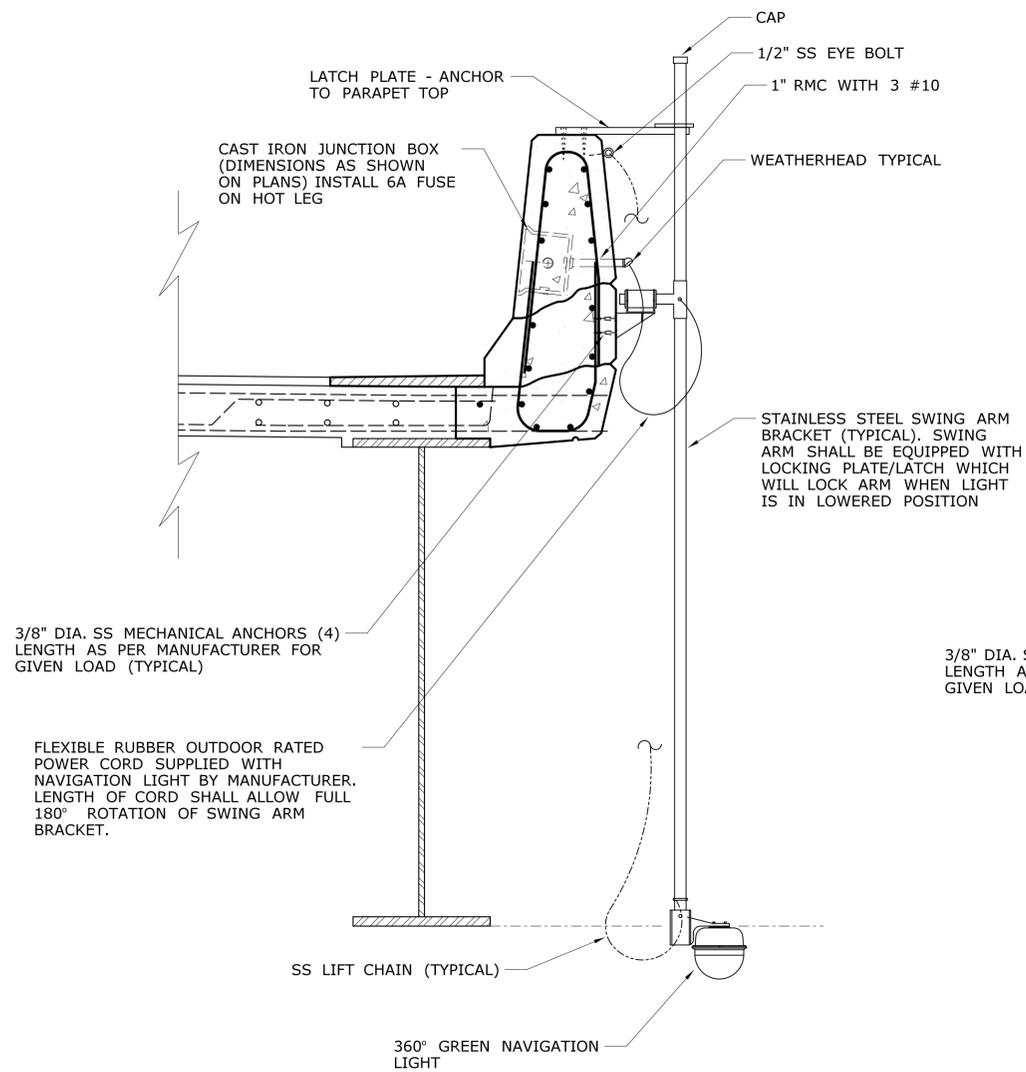
- 1) FIBERGLASS CONDUIT (FGC) LOCATED IN GRANULAR FILL BETWEEN MEDIAN BARRIERS SHALL BE STANDARD WALL (.070" WALL THICKNESS) TYPE. SURFACE MOUNTED FIBERGLASS CONDUIT SHALL BE EXTRA HEAVY WALL (0.250" WALL THICKNESS) TYPE.
- 2) FIBERGLASS CONDUIT IN MEDIAN FILL SHALL HAVE INTERFERENCE JOINTS PERMANENTLY BONDED WITH ADHESIVE. SURFACE MOUNTED FIBERGLASS CONDUIT SHALL HAVE STRAIGHT SOCKET JOINTS PERMANENTLY BONDED WITH ADHESIVE.
- 3) FIBERGLASS CONDUIT STUB-UPS SHALL BE TERMINATED WITH A SLIP-FIT CAP WITH NO ADHESIVE.
- 4) FIBERGLASS CONDUIT ENTERING A CONCRETE HANDHOLE SHALL BE TERMINATED WITH A BELL END. FIBERGLASS CONDUIT ENTERING A JUNCTION BOX SHALL BE TERMINATED WITH A BOX CONNECTOR.
- 5) FIBERGLASS CONDUIT EXPANSION JOINTS SHALL PROVIDE 8" OF OVERALL EXPANSION.
- 6) ALL LIGHT STANDARD FOUNDATIONS AND CONCRETE HANDHOLES SHALL BE SURROUNDED BY A 1/2" x 1/2" JOINT OF TYPE "A" JOINT SEALER.
- 7) A PULL-LINE SHALL BE INSTALLED IN ALL CONDUITS (EXCEPT STUB-UPS AND STUB-DOWNS). PULL-LINES ENTERING LIGHT STANDARD FOUNDATIONS SHALL BE TIED OFF TO THE FOUNDATION ANCHOR BOLTS.
- 8) 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.

NOTE: CONDUIT INSTALLATION AS SHOWN IS TYPICAL FOR BOTH ENDS OF PIER STRUCTURE.

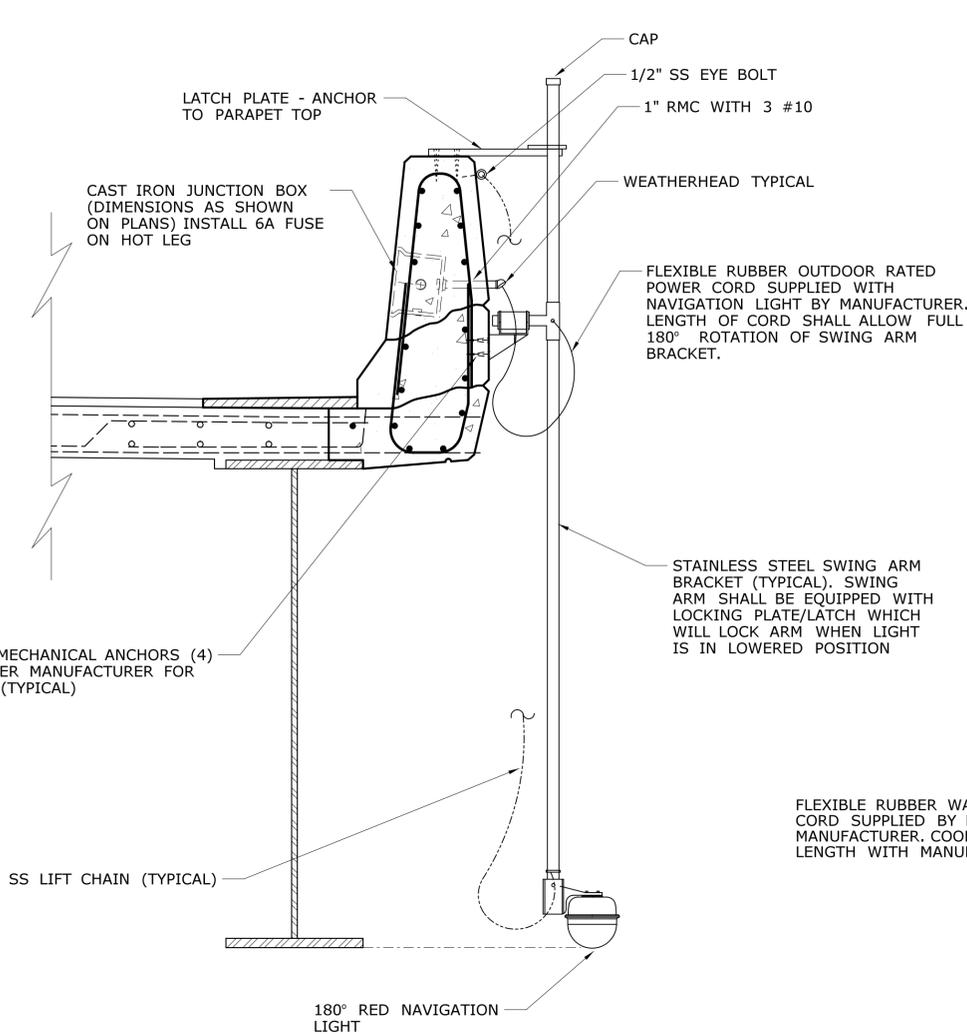
DESIGNER/DRAFTER: MSB	CHECKED BY: JA	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE:	TOWN:	PROJECT NO.
NO SCALE		FILENAME: ...MEDIAN ELECTRICAL DETAILS - 2.dgn		APPROVED BY:		DRAWING TITLE: MEDIAN ELECTRICAL DETAILS	DRAWING NO.
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	DATE ISSUED 1/1/2017			SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

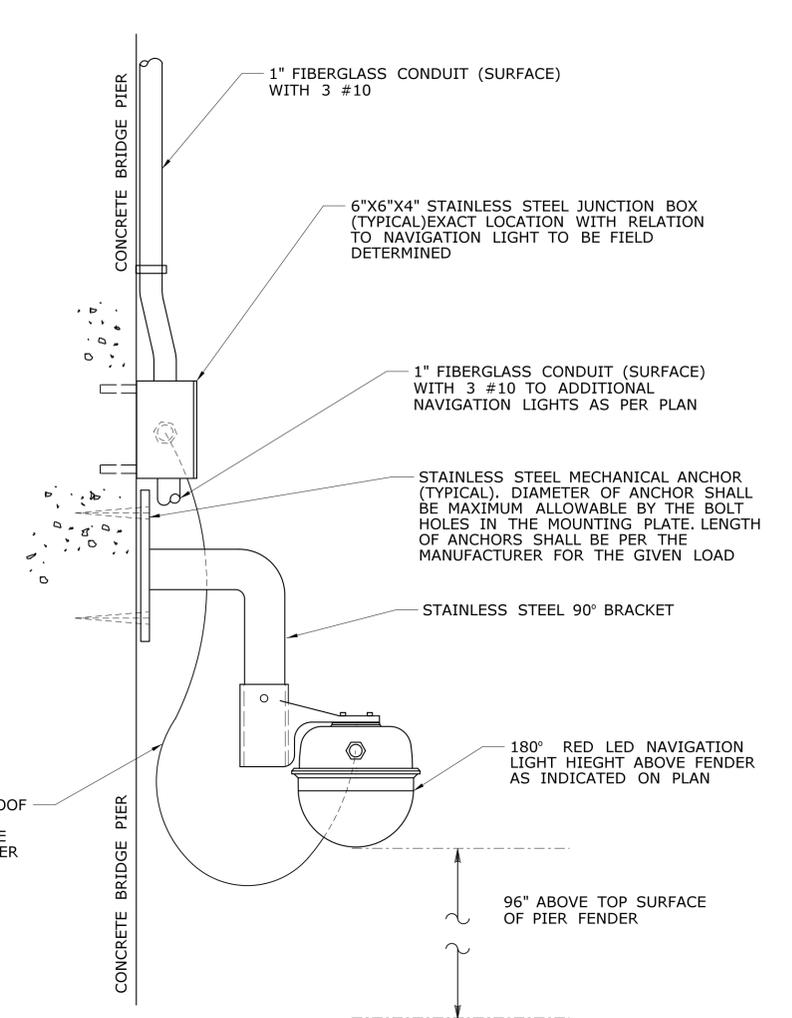
Plotted Date: 12/29/2016



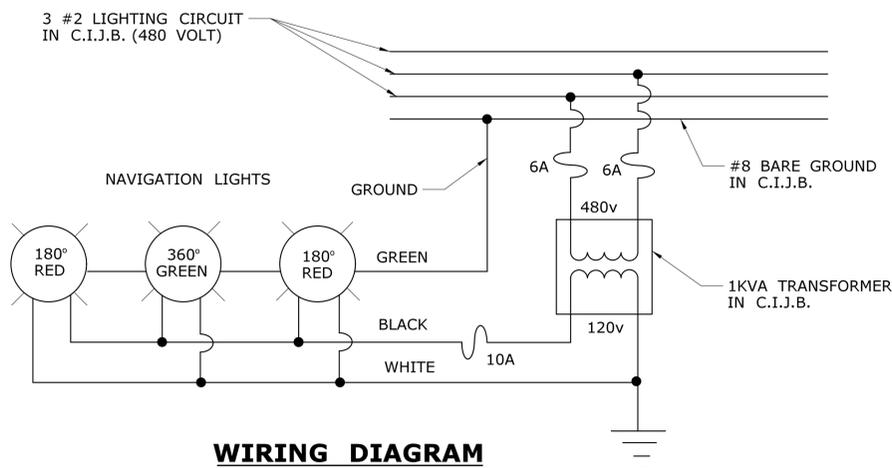
360° GREEN NAVIGATION LIGHT (PENDANT MOUNTED)



180° RED NAVIGATION LIGHT (PENDANT MOUNTED)



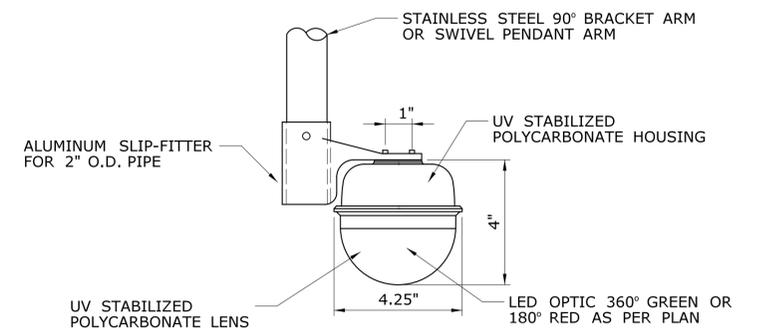
180° RED NAVIGATION LIGHT (PIER MOUNTED)



WIRING DIAGRAM

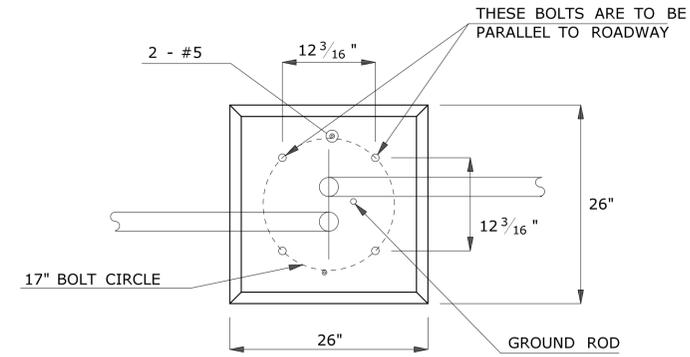
NOTES:

- 1) FIBERGLASS CONDUIT SHALL BE "EXTRA HEAVY" WALL TYPE WITH A WALL THICKNESS OF 0.250".
- 2) CONDUIT SUPPORT SPACING SHALL NOT EXCEED 3'-0" AS PER N.E.C. 352.30(B).
- 3) ALL MECHANICAL ANCHORS AND MOUNTING HARDWARE SHALL BE TYPE 316 STAINLESS STEEL.
- 4) INSTALL ONE CONDUIT EXPANSION FITTING EVERY 50' OF CONDUIT LENGTH.
- 5) 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.
- 6) THE CONTRACTOR SHALL ENSURE THAT THE INSTALLED NAVIGATION LIGHT IS COMPLETELY ACCESSIBLE, INCLUDING ACCESS TO THE LIFT CHAIN AND LATCH PLATE AND THAT WHEN RAISED THE NAVIGATION LIGHT IS ACCESSIBLE FROM SIDEWALK OR ROAD SURFACE.



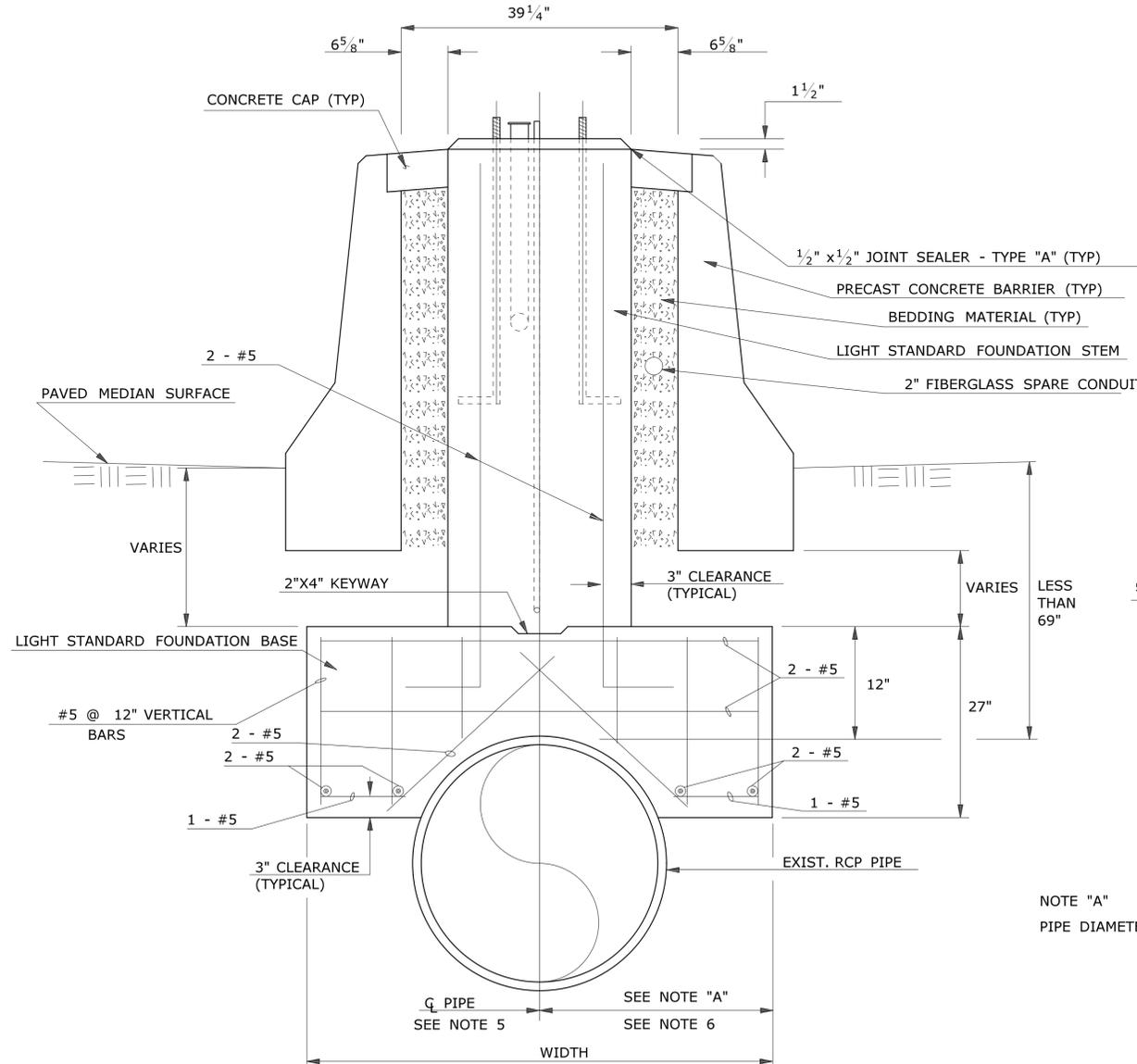
NAVIGATION LIGHT

DESIGNER/DRAFTER: MSB	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: -	TOWN: -	PROJECT NO. -
CHECKED BY: JA		APPROVED BY: DATE:	DATE ISSUED: 1/1/2017	DRAWING TITLE: NAVIGATION LIGHTS	DRAWING NO. -
NO SCALE	Filename: ...NAVIGATION LIGHTS.dgn			SHEET NO. \$\$\$	
REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 12/29/2016		

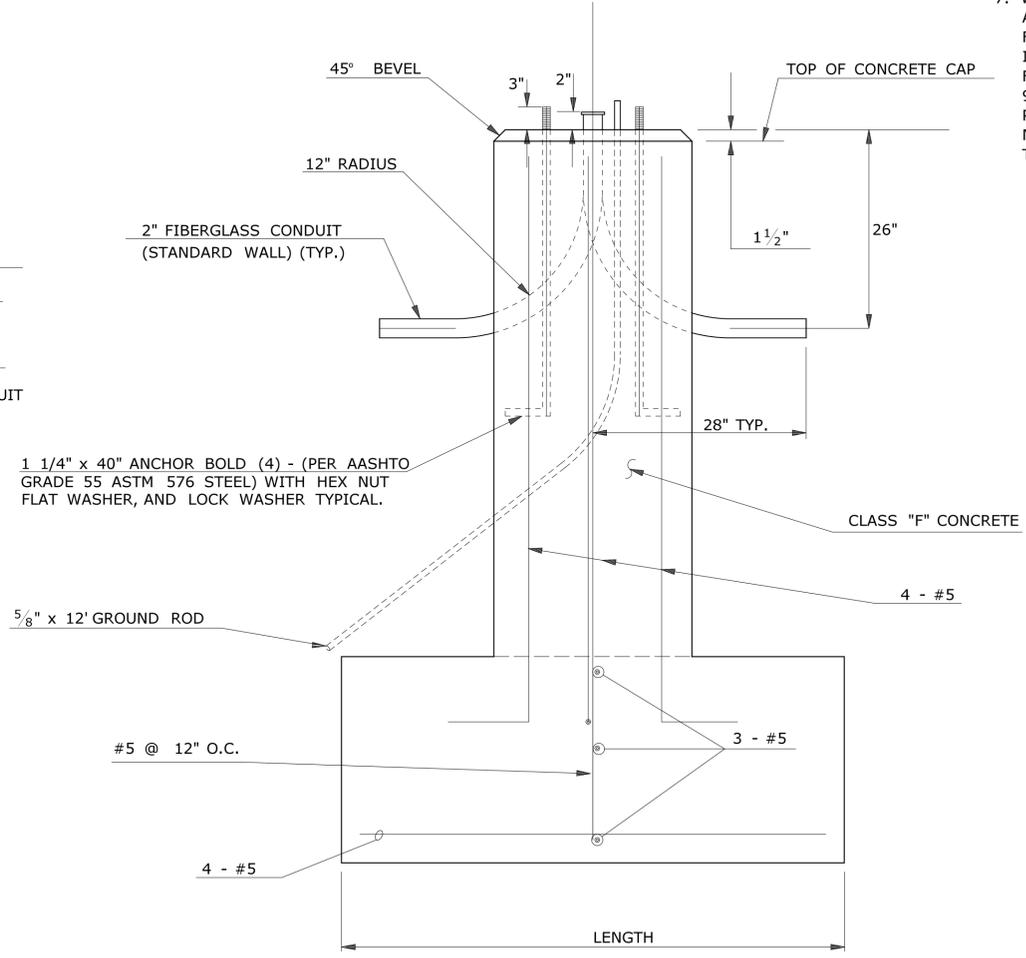


CONSTRUCTION NOTES:

1. DETAILS APPLY TO LOCATIONS WITH PIPE CLEARANCE OF LESS THAN 69" FROM PAVED MEDIAN SURFACE.
2. ALL STEEL REINFORCEMENT TO BE EPOXY COATED AND SHALL BE ASTM A615 GRADE 60.
3. FIBERGLASS CONDUIT SWEEPS SHALL BE PRE-FORMED FROM THE CONDUIT MANUFACTURER AND SHALL HAVE STANDARD 0.070" WALL.
4. THE C_L OF THE LIGHT STANDARD FOUNDATION STEM NEED NOT MATCH THE C_L OF THE PIPE, BUT SHALL BE PLACED IN CENTER OF CONCRETE BARRIER.
5. EDGE OF LIGHT STANDARD FOUNDATION STEM CANNOT EXCEED BEYOND LIGHT STANDARD FOUNDATION BASE, IF NECESSARY ENLARGE THE LIGHT STANDARD FOUNDATION BASE.
6. THE LENGTH OF THE LIGHT STANDARD FOUNDATION BASE SHALL EQUAL THE WIDTH OF LIGHT STANDARD FOUNDATION BASE.
7. WHERE SUFFICIENT CLEARANCE ABOVE EXISTING DRAINAGE PIPE ALLOWS FOR THE INSTALLATION OF PRECAST LIGHT STANDARD FOUNDATION (TYPE 1), THE 12' GROUND ROD SHALL BE INSTALLED IN THE GROUND ROD SLEEVE PRIOR TO PLACEMENT OF THE FOUNDATION IN THE MEDIAN. THE GROUND ROD SHALL BE BENT 90° AS IT EXITS THE BOTTOM OF THE FOUNDATION, TO AVOID POSSIBLE CONFLICTS WITH BURIED DRAINAGE PIPE. UNDER NO CIRCUMSTANCES SHALL THE GROUND ROD BE DRIVEN WHEN THERE IS DRAINAGE PIPE PRESENT UNDER THE MEDIAN.



LIGHT STANDARD FOUNDATION SPECIAL
(CAST IN PLACE)



LIGHT STANDARD FOUNDATION SPECIAL
(CAST IN PLACE)

NOTE "A"
PIPE DIAMETER/2 + 12"

<p>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</p>	DESIGNER/DRAFTER: MSB	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE:	TOWN:	PROJECT NO.:
	CHECKED BY: JA		APPROVED BY:			DRAWING NO.:
	NO SCALE					DRAWING TITLE: LIGHT STANDARD FOUNDATION - SPECIAL
						SHEET NO.: