



EXISTING 4IN RMC MULTIDUCT WITH 60 FIBER OPTIC TRUNKLINE CABLE- SURFACE- INSTALL 72 FIBER OPTIC CABLE

EXISTING 4IN RMC MULTIDUCT WITH 72 FIBER OPTIC TRUNKLINE CABLE- UNDER ROADWAY- INSTALL 72 FIBER OPTIC CABLE

EXISTING 4IN RMC MULTIDUCT WITH 72 FIBER OPTIC TRUNKLINE CABLE- UNDER ROADWAY- INSTALL 72 FIBER OPTIC CABLE

EXISTING 4IN RMC MULTIDUCT WITH 60 FIBER OPTIC TRUNKLINE CABLE- IN TRENCH- INSTALL 72 FIBER OPTIC CABLE

EXISTING 4IN RMC MULTIDUCT WITH 60 FIBER OPTIC TRUNKLINE CABLE- IN TRENCH- INSTALL 72 FIBER OPTIC CABLE

COIL 100FT 72 FIBER OPTIC SLACK CABLE

EXISTING 4IN RMC MULTIDUCT WITH 60 FIBER OPTIC TRUNKLINE CABLE- UNDER ROADWAY- INSTALL 72 FIBER OPTIC CABLE

INSTALL 2IN RMC- SURFACE-
INSTALL 6 FIBER OPTIC CABLE
INSTALL 2IN RMC- SURFACE-
CCTV SERVICE
EXISTING 4IN RMC MULTIDUCT WITH 60 FIBER OPTIC TRUNKLINE CABLE- UNDER ROADWAY-
EXISTING FIBER OPTIC TRUNKLINE

EXISTING SIGN STRUCTURE 21594 @ MILE POINT 61.18 ON I-84

EXISTING 4IN RMC MULTIDUCT WITH 72 FIBER OPTIC TRUNKLINE CABLE- UNDER ROADWAY- INSTALL 72 FIBER OPTIC CABLE

EXISTING 4IN RMC MULTIDUCT WITH 72 FIBER OPTIC TRUNKLINE CABLE- UNDER ROADWAY- INSTALL 72 FIBER OPTIC CABLE

EXISTING 4IN RMC MULTIDUCT WITH 72 FIBER OPTIC TRUNKLINE CABLE- IN TRENCH- INSTALL 72 FIBER OPTIC CABLE

EXISTING 4IN RMC MULTIDUCT WITH 72 FIBER OPTIC TRUNKLINE CABLE- UNDER ROADWAY- INSTALL 72 FIBER OPTIC CABLE

EXISTING 4IN RMC MULTIDUCT WITH 72 FIBER OPTIC TRUNKLINE CABLE- IN TRENCH- INSTALL 72 FIBER OPTIC CABLE

MAIN FIBER HUB @ MILE POINT 62.48 ON I-84

SYMBOL	AUX DETECTOR CONN CABINET	AUX DETECTOR TERM CABINET	CCTV CAMERA	CAST IRON JUNCTION BOX	TRAFFIC FLOW MONITOR	TYPE II HANDHOLE	CCTV/VMS MINIHUB	PULLBOX	SERVICE CABINET	STEEL POLE	UTILITY POLE	VMS ON CANTILEVER	VMS ON SIDE MOUNT	PORTABLE VMS	PVC	RMC IN TRENCH	RMC SURFACE	AERIAL FIBER OPTIC CABLE
PROPOSED	☒	☑	○	□	▽	■	⊞	▭	⊞	□	⊗	○	○	⊞	---	○-○	—S—S—	—A—A—
EXISTING	☒	☑	●	■	▽	■	⊞	▭	⊞	□	●	●	●	⊞	---	○-○	—S—S—	—A—A—

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:
AMC
CHECKED BY:
RAK
SCALE AS NOTED



SIGNATURE/BLOCK:
BUREAU OF HIGHWAY OPERATIONS
APPROVED BY:
[Signature]

PROJECT TITLE:
BRIDGE NO. 3160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN:
HARTFORD
DRAWING TITLE:
IMS PLAN - 1

PROJECT NO.
63-699
DRAWING NO.
IMS-02
SHEET NO.
01.09.02

CONSTRUCTION NOTES

SERVICE CONDUCTORS SHALL BE SINGLE CONDUCTOR, STRANDED COPPER, INSULATION TYPE XHHW- 2 RATED FOR 600 VOLTS.

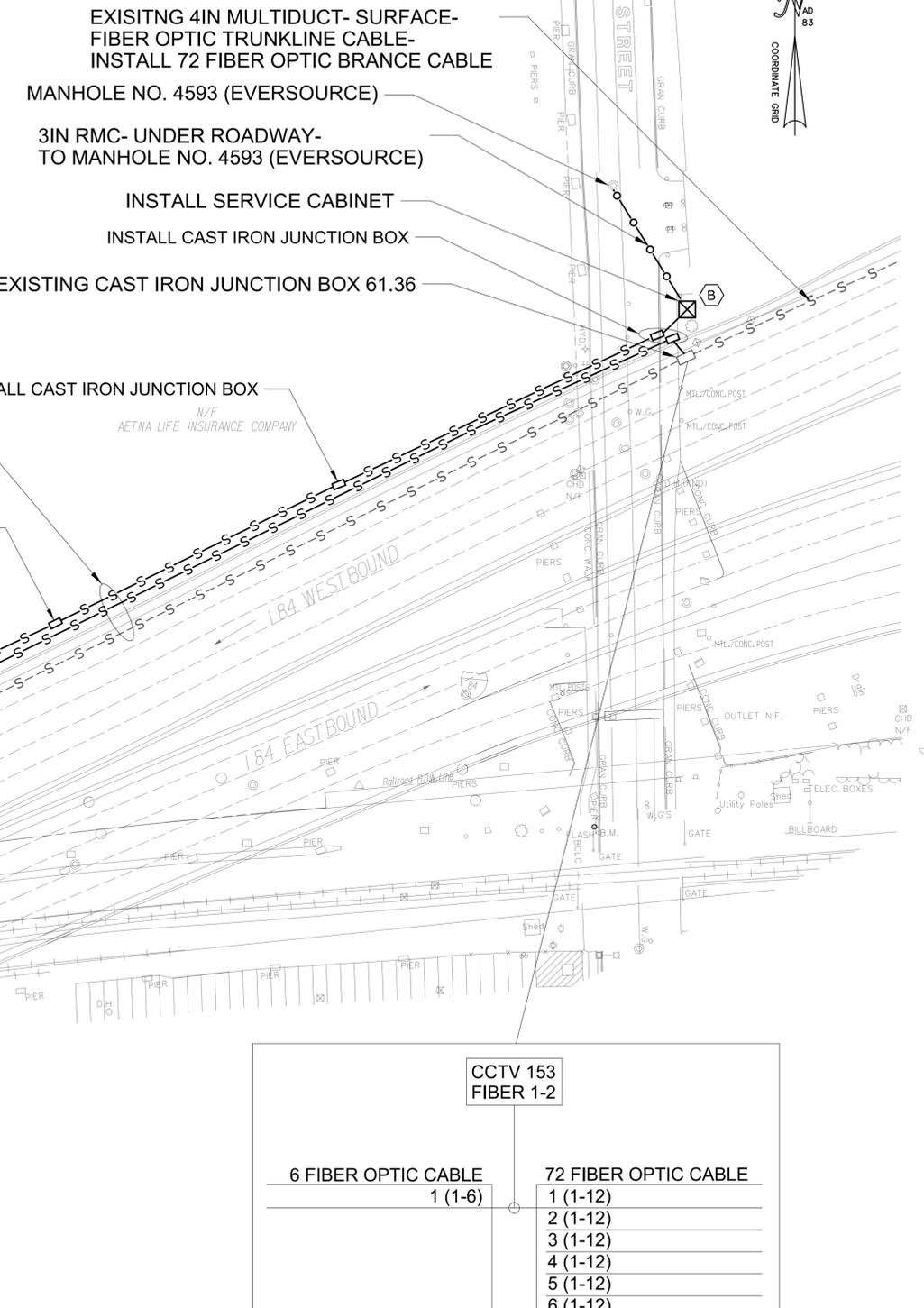
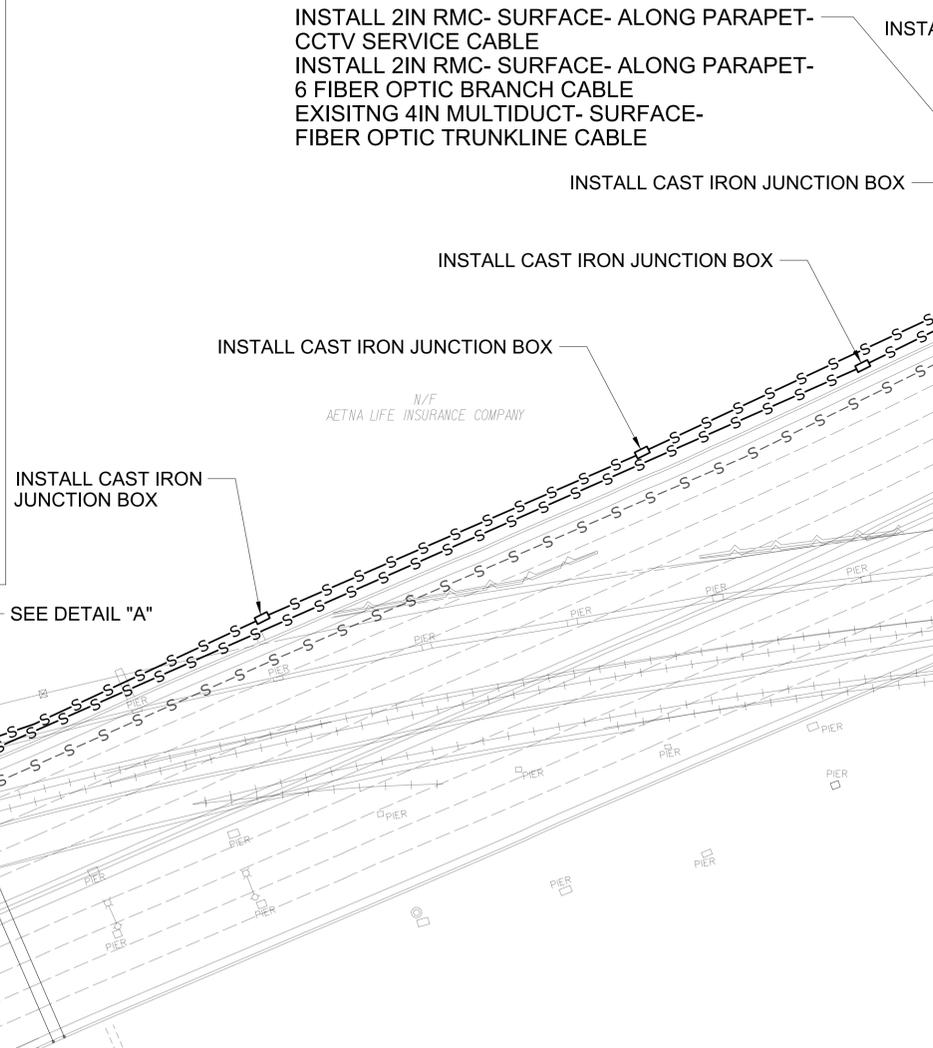
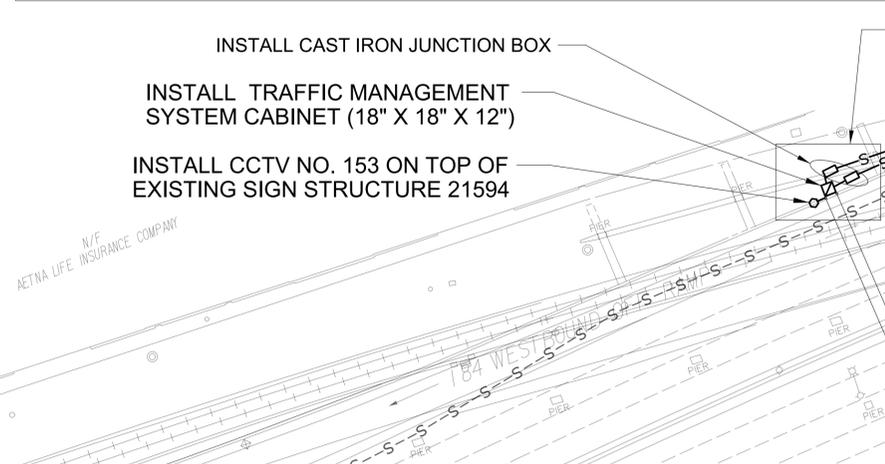
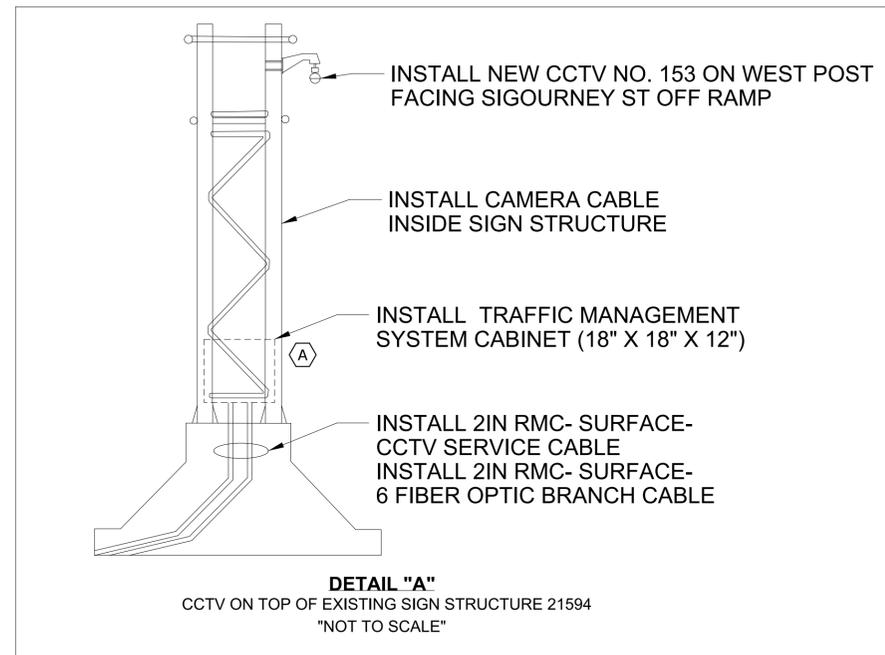
FOR RECOMMENDED SEQUENCE OF CONSTRUCTION PLEASE SEE "NOTICE TO CONTRACTOR- IMS INSTALL" SPECIFICATION.

INSTALL CAMERA ASSEMBLY ON I-84 WESTBOUND WEST POST OF OVERHEAD SIGN STRUCTURE NO. 21594.

THE FOLLOWING CABLING IS REQUIRED FROM THE TRAFFIC MANAGEMENT SYSTEM CABINET AND THE CAMERA:

- PAN TILT ZOOM- BELDEN #9734 OR APPROVED EQUAL
- VIDEO- BELDEN #7915A OR APPROVED EQUAL
- CAMERA POWER- BELDEN #8628 OR APPROVED EQUAL
- CATAGORY 6- OSP BROADBAND #BBDN6 OR APPROVED EQUAL

- (A) INSTALL TRAFFIC MANAGEMENT SYSTEM CABINET ON EXISTING SIGN STRUCTURE 21594 WITH DOOR FACING I-84 WESTBOUND. BOTTOM OF TRAFFIC MANAGEMENT SYSTEM CABINET SHALL BE 36 INCHES ABOVE ROADWAY.
- (B) INSTALL SERVICE CABINET PEDISTAL AND FOUNDATION WITH METERED SERVICE.



CCTV 153 FIBER 1-2	
6 FIBER OPTIC CABLE 1 (1-6)	72 FIBER OPTIC CABLE
	1 (1-12)
	2 (1-12)
	3 (1-12)
	4 (1-12)
	5 (1-12)
	6 (1-12)

SYMBOL	AUX DETECTOR CONN CABINET	AUX DETECTOR TERM CABINET	CCTV CAMERA	CAST IRON JUNCTION BOX	TRAFFIC FLOW MONITOR	TYPE II HANDHOLE	CCTV/VMS MINIHUB	PULLBOX	SERVICE CABINET	STEEL POLE	UTILITY POLE	VMS ON CANTILEVER	VMS ON SIDE MOUNT	PORTABLE VMS	PVC	RMC IN TRENCH	RMC SURFACE	AERIAL FIBER OPTIC CABLE
PROPOSED	☒	☒	○	□	▽	■	⊞	▭	⊞	□	⊙	○	○	⊞	---	○-○	-S-S-	-A-A-
EXISTING	☒	☒	○	□	▽	■	⊞	▭	⊞	□	⊙	○	○	⊞	---	○-○	-S-S-	-A-A-

DESIGNER/DRAFTER: AMC	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: BUREAU OF HIGHWAY OPERATIONS	PROJECT TITLE: BRIDGE NOS. 3160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)	TOWN: HARTFORD	PROJECT NO. 63-699
CHECKED BY: RAK		APPROVED BY: 	DRAWING TITLE: IMS PLAN - 2	SHEET NO. 01.09.03	
SCALE AS NOTED	Plotted Date: 7/1/2016	Filename: ...Aetna Camera Location Final Design.dgn			

CONDUIT SUPPORT INSTALLATION SEQUENCE:

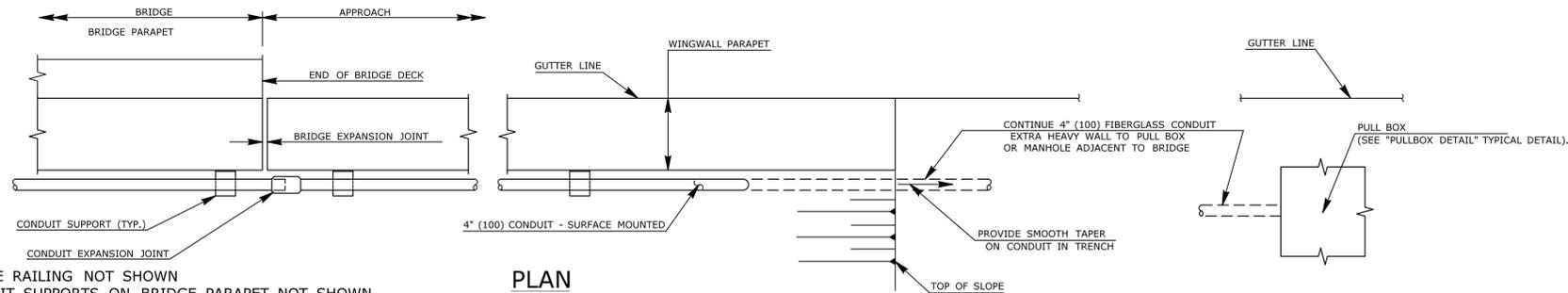
A. MOUNT CONDUIT SUPPORTS ON EXISTING BRIDGES AND WALLS. PLACE SUPPORTS ACCORDING TO MOUNTING LAYOUTS AND DETAILS AS SHOWN. DRILL HOLES IN EXISTING STRUCTURES ACCORDING TO "FIELD FASTENER NOTES" AND "STRUCTURAL NOTES".

B. FASTEN CONDUIT TO SUPPORTS WITH U-BOLTS.

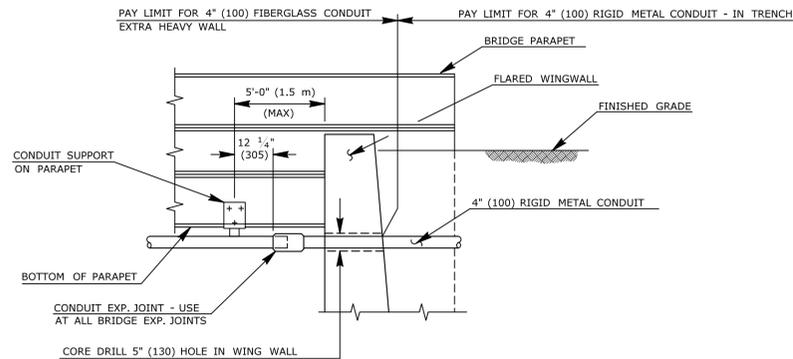
4" (100) SURFACE MOUNTED CONDUIT SUPPORT SPACING NOTES:

A. SPACE CONDUIT SUPPORTS AT 14'-9" (4.5 m) O.C. MAXIMUM FOR STRUCTURE MOUNTED 4" (100) CONDUIT - SURFACE MOUNTED AS SHOWN ON THE DETAILS AND AS DIRECTED BY THE ENGINEER.

B. ADDITIONAL CONDUIT SUPPORTS ARE REQUIRED AT LOCATIONS OF EXPANSION FITTINGS AND FIXED AND FLEXIBLE SWEEP BENDS AS SHOWN ON THE DETAILS OR AS DIRECTED BY THE ENGINEER.

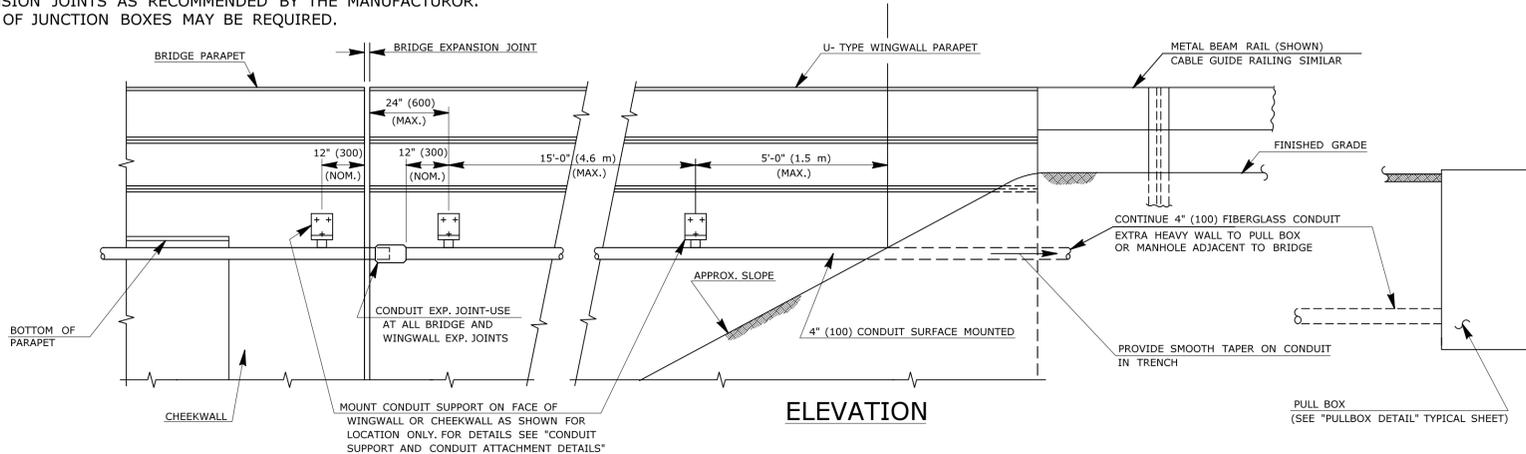


- NOTES:
- BRIDGE RAILING NOT SHOWN
 - CONDUIT SUPPORTS ON BRIDGE PARAPET NOT SHOWN
 - APPROACH RAILING NOT SHOWN
 - INSTALL EXPANSION JOINTS AS RECOMMENDED BY THE MANUFACTURER.
 - INSTALLATION OF JUNCTION BOXES MAY BE REQUIRED.



NOTE: BRIDGE RAILING & APPROACH RAILING NOT SHOWN.

FLARED WINGWALL CONDUIT - PARAPET TO FILL
N.T.S.



NOTE: MOUNT CONDUIT ON WING WALLS AT SAME POSITION AS CONDUIT ON PARAPET

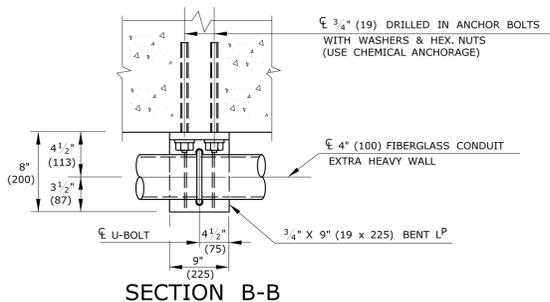
U - TYPE WINGWALL CONDUIT - PARAPET TO FILL
N.T.S.

NOTES

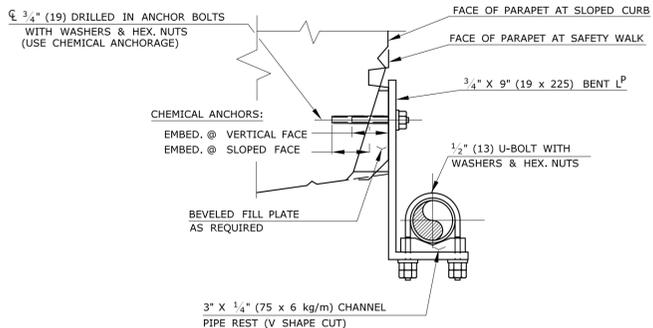
- DETAILS SHOWN AT PARAPET, ATTACHMENT SIMILAR ON WALLS.
- PROVIDE 3/4" (19) DIA. HOLES FOR 5/8" (16) DIA. BOLTS AND U-BOLTS IN CONDUIT SUPPORT AND CHANNEL PIPE REST.
- MATERIAL FOR THREADED ANCHORS, NUTS, AND WASHERS FOR DRILLING AND CHEMICAL ANCHORING IN EXISTING CONCRETE ELEMENTS SHALL BE STAINLESS STEEL. ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A193(M), CLASS 2, GRADE B8M (TYPE 316). WASHERS SHALL CONFORM TO ASTM A276(M), TYPE 316, ANNEALED.

NOTE

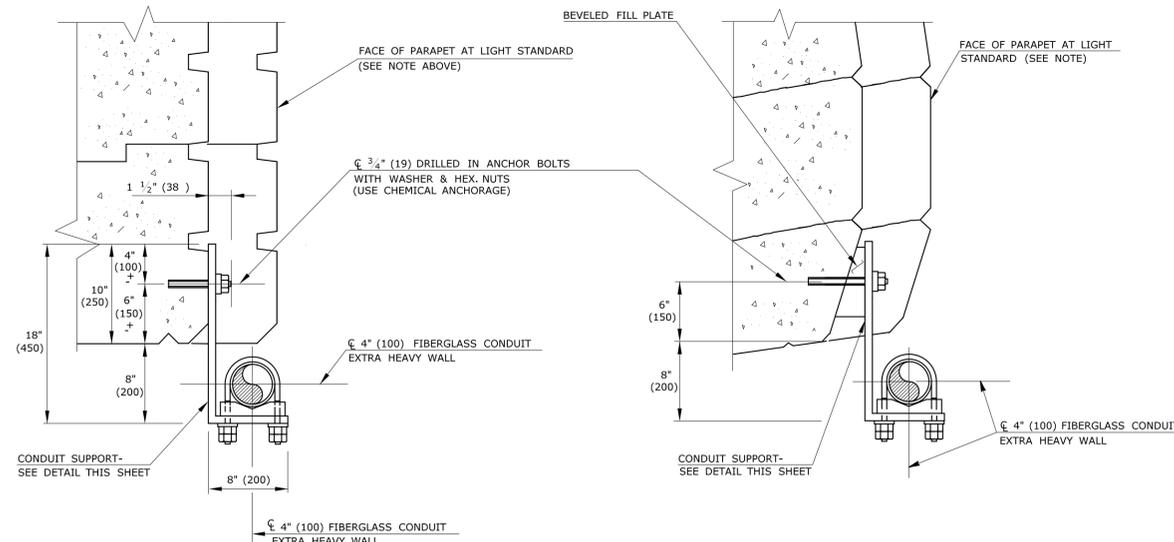
- FACE OF PARAPET AT LIGHT STANDARDS SHOWN TO ILLUSTRATE CONDUIT MOUNTED TO CLEAR WIDENED PARAPET, DETAIL AT PARAPET MOUNTED SIGN SUPPORTS AND NOISE BARRIER WALLS, ETC. SIMILAR.



SECTION B-B



SECTION A-A



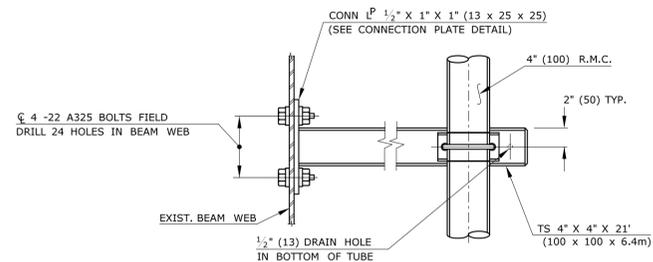
(SAFETY CURB & PARAPET)

(SLOPED CURB AND PARAPET)

4" (100) SURFACE MOUNTED CONDUIT SUPPORT DETAILS
CONDUIT SUPPORT SPACING: SPACE 4" (100) CONDUIT SUPPORTS AT 14 3/4' (4.5 m) O.C. MAXIMUM.

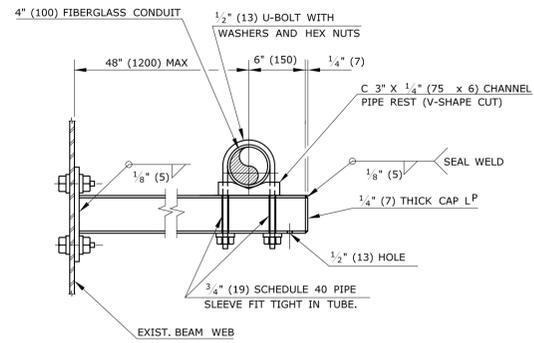
4" (100) SURFACE MOUNTED CONDUIT ATTACHMENT TO BRIDGE PARAPET

<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>DESIGNER/DRAFTER:</p>		<p>SIGNATURE/BLOCK:</p> <p>BUREAU OF HIGHWAY OPERATIONS</p>	<p>PROJECT TITLE:</p> <p>BRIDGE NO. 3160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)</p>	<p>TOWN:</p> <p>HARTFORD</p>	<p>PROJECT NO.:</p> <p>63-699</p>
<p>1 10-10 REVISED DIMENSIONS ON THE SURFACE MTD CONDUIT DETAILS</p>	<p>REVISION DESCRIPTION</p>	<p>CHECKED BY:</p>		<p>APPROVED BY:</p> <p><i>[Signature]</i></p>	<p>DATE:</p>	<p>DRAWING TITLE:</p> <p>U-TYPE & FLARED WINGWALL CONDUIT PARAPET MTG, CONDUIT SUPPORT & ATTCHMENTS</p>	<p>SHEET NO.:</p> <p>01.09.05</p>



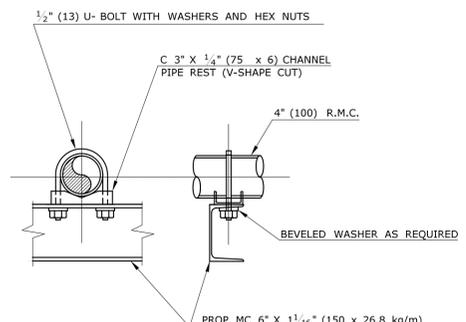
NOTE: FOR INFORMATION NOT SHOWN, SEE ELEVATION.

PLAN

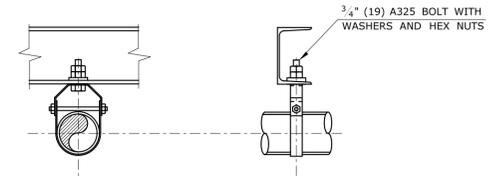


ELEVATION

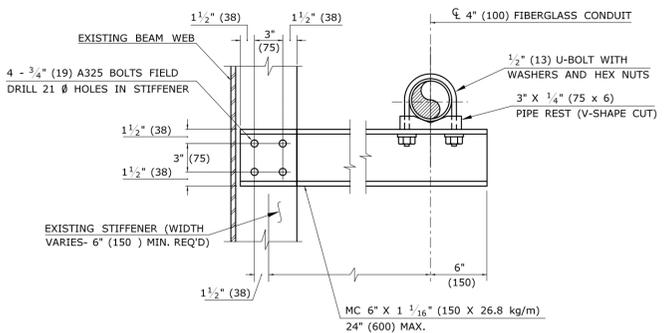
TS CONDUIT SUPPORT



U-BOLT DETAILS

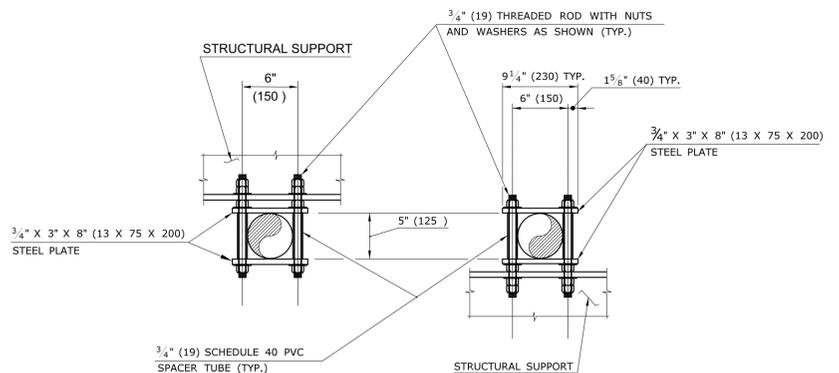


DIRECT BOLTED ATTACHMENT



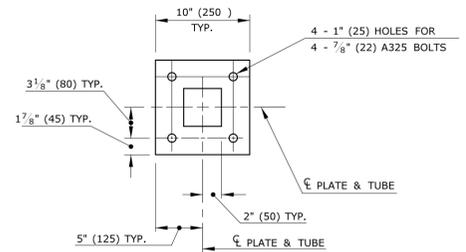
ELEVATION

CANTILEVER CHANNEL CONDUIT SUPPORT



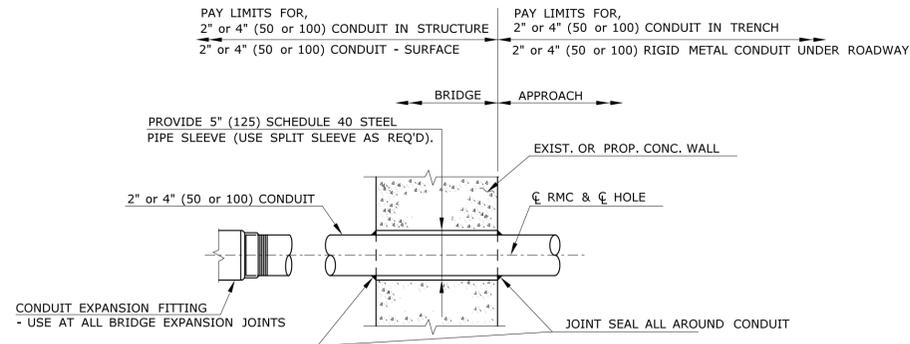
ATTACHED HANGER SUPPORTED HANGER

CONDUIT RACK HANGER DETAILS

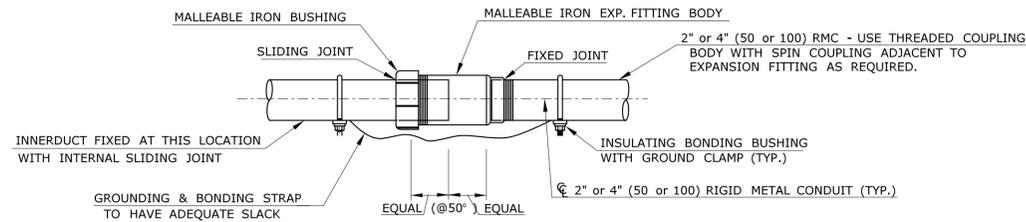


CONNECTION PLATE DETAIL

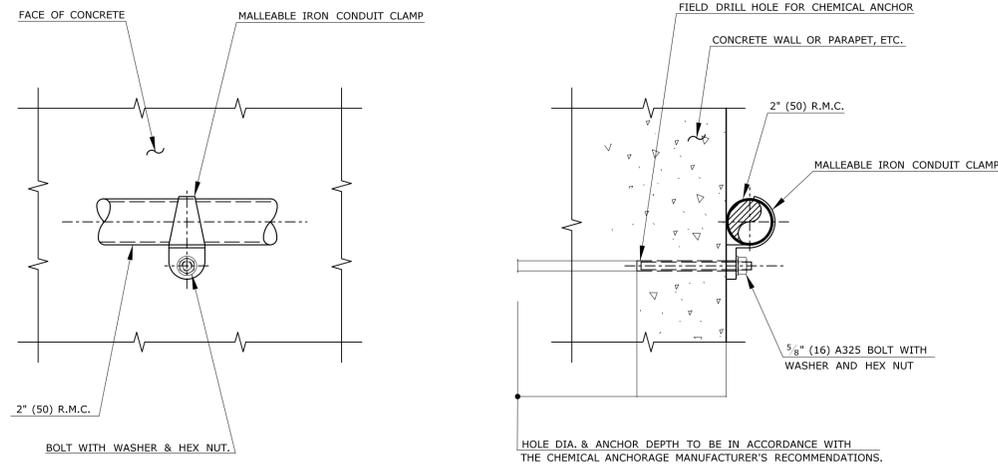
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.																																								
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WALL PENETRATION DETAIL
NOT TO SCALE



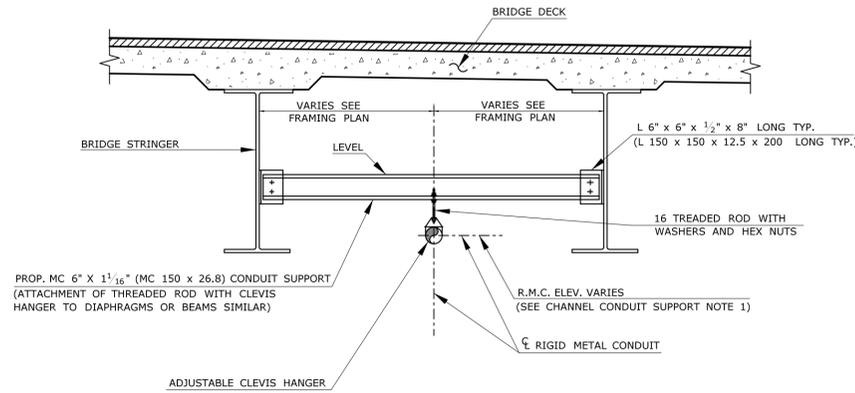
EXPANSION FITTING
8" (200) TOTAL MOVEMENT
NOT TO SCALE



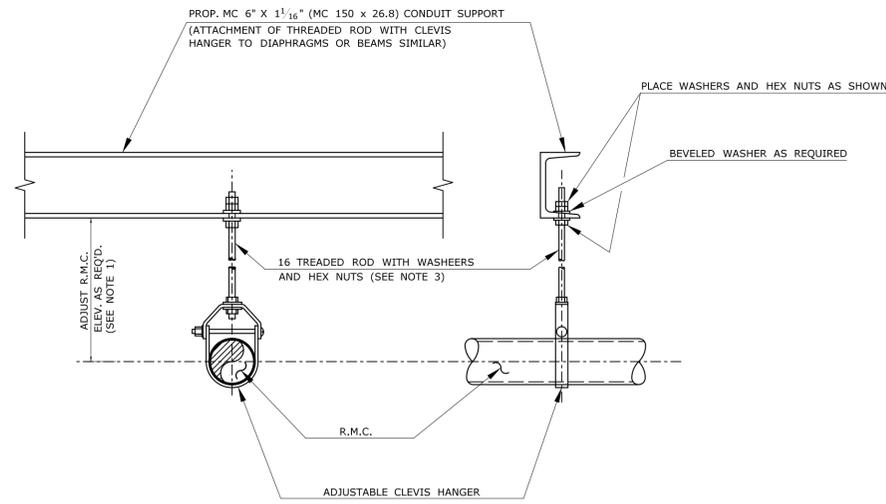
ELEVATION

SECTION

ONE HOLE CLAMP & FIELD FASTENER DETAILS
NOT TO SCALE



CHANNEL CONDUIT SUPPORT DETAIL
NOT TO SCALE



SECTION

ELEVATION

CLEVIS HANGER DETAIL
NOT TO SCALE

CHANNEL CONDUIT SUPPORT NOTES:

1. MOUNT CONDUIT & CLEVIS HANGER ABOVE BOTTOM OF BEAMS (U.N.O.).
2. SEE "R.M.C. - IN STRUCTURE" DETAILS FOR ADD'L. INFORMATION.
3. FIELD DRILL $\frac{3}{4}$ " (19) DIA. HOLES IN FLANGES OF DIAPHRAGMS OR BEAMS.

CLEVIS HANGER NOTES:

1. CLEVIS HANGERS SHALL BE AS SHOWN AND AS MANUFACTURED BY ITT GRINNELL CO., FIG. 260 OR APPROVED EQUAL. THE CLEVIS, INCLUDING ALL HARDWARE, THREADED RODS AND NUTS SHALL BE GALVANIZED. THE THREADED RODS SHALL BE A MINIMUM OF $\frac{5}{8}$ " (16) IN DIAMETER.
2. CLEVIS HANGER SPACING: SPACE CLEVIS HANGER WITH THREADED ROD ATTACHED TO EITHER PROPOSED CHANNEL CONDUIT SUPPORT OR EXIST. STRUCTURAL STEEL AT 15' (4.5 m) O.C. MAXIMUM.
3. FIELD DRILL $\frac{3}{4}$ " (19) DIA. HOLES IN FLANGES OF DIAPHRAGMS OR BEAMS.

FIELD FASTENER NOTES:

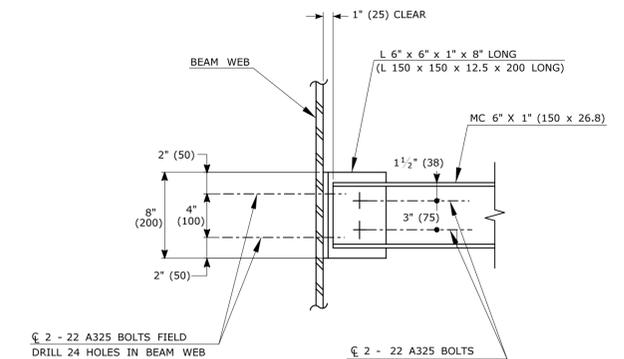
CONDUIT SUPPORTS SHALL BE ATTACHED TO THE EXISTING STRUCTURES UTILIZING ONE OF THE FOLLOWING METHODS AS APPROVED BY THE ENGINEER:

1. FIELD DRILL HOLES IN CONCRETE STRUCTURES. HOLE DIAMETER & ANCHOR DEPTH FOR THE CHEMICAL ANCHORAGE TO BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
2. CHEMICAL ANCHORS - SYSTEM APPROVED BY CONN. D.O.T. WITH THREADED RODS, ANCHOR BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL.
3. ONE HOLE CLAMP SHALL BE MALLEABLE IRON CONDUIT CLAMP AS SHOWN AND AS MANUFACTURED BY ITT GRINNELL CO., FIG. 126, OR APPROVED EQUAL. THE CLAMP SHALL BE GALVANIZED.
4. SPACE CLAMPS AT 60" (1500) MAXIMUM.

ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A193(M), CLASS 2, GRADE B8M (TYPE 316).

NUTS SHALL BE NYLON INSERT LOCK NUTS AND CONFORM TO ASTM A194(M), GRADE 8M, STRAIN HARDENED (TYPE 316).

WASHERS SHALL CONFORM TO ASTM A276(M), TYPE316, ANNEALED.



2 - 22 A325 BOLTS FIELD
DRILL 24 HOLES IN BEAM WEB

2 - 22 A325 BOLTS

CHANNEL CONDUIT SUPPORT CONNECTION DETAIL
NOT TO SCALE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1	10-10	ADDED ASTM CONFORMANCES FOR NUTS, BOLTS & WASHERS	

DIMENSIONS ARE IN ENGLISH (' AND ") AND METRIC UNITS (mm). METRIC CONVERSIONS OVER 1" ROUNDED TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm.

DESIGNER/DRAFTER:
D. K. SWINBURNE

CHECKED BY:
R.A. KENNEDY


STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION


BUREAU OF HIGHWAY OPERATIONS

Signature: *[Handwritten Signature]*

SIGNATURE/BLOCK:
BUREAU OF HIGHWAY OPERATIONS

PROJECT TITLE:
BRIDGE NO. 3160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

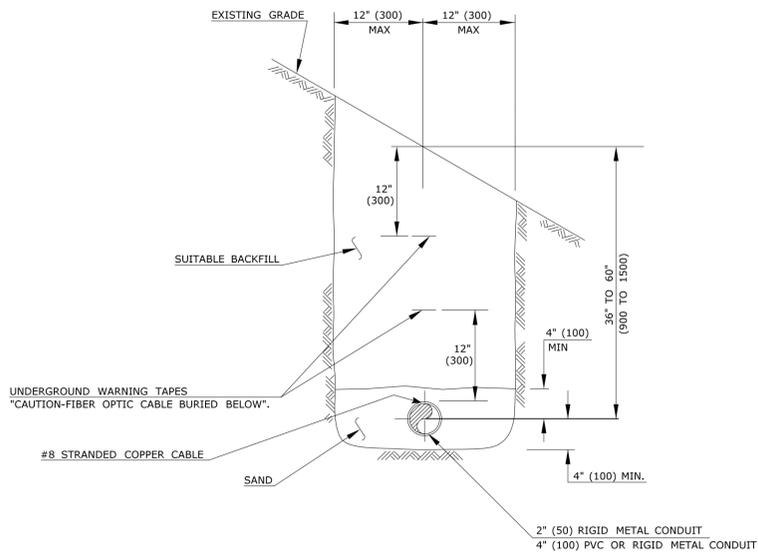
TOWN:
HARTFORD

DRAWING TITLE:
RMC EXPANSION FITTING, WALL PENETRATION, CHANNEL CONDUIT SUPPORT CONNECTION, ONE HOLE CLAMP & FIELD FASTENER, CLEVIS HANGER DETAILS

PROJECT NO.
63-699

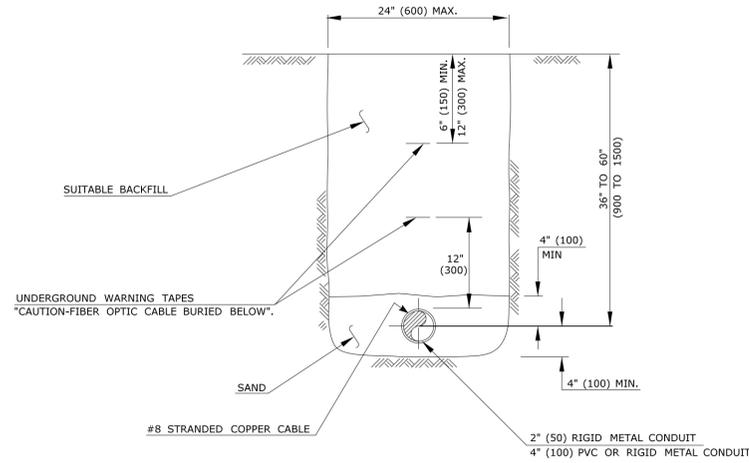
DRAWING NO.
IMS-07

SHEET NO.
01.09.07

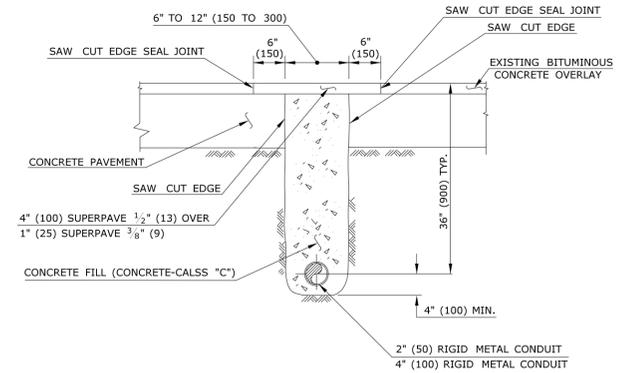


CONDUIT IN SLOPED EARTH

NOTE: IN SLOPES STEEPER THAN 1:2, CONDUIT SHALL HAVE A MINIMUM COVER OF 24" (600) PERPENDICULAR TO THE SLOPE.

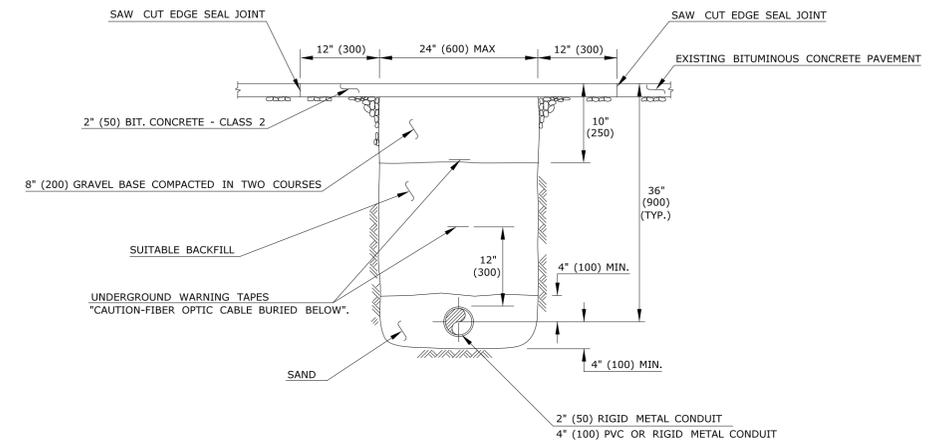


CONDUIT IN LEVEL EARTH

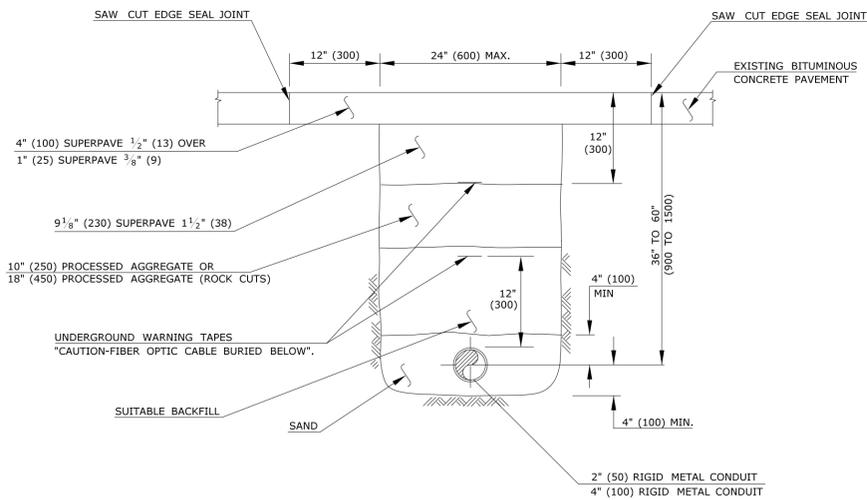


R.M.C. UNDER BITUMINOUS CONCRETE OVERLAYED CONCRETE PAVEMENT

NOTE: USE SUPERPAVE LAYERS AS SHOWN OR AS DIRECTED BY THE ENGINEER

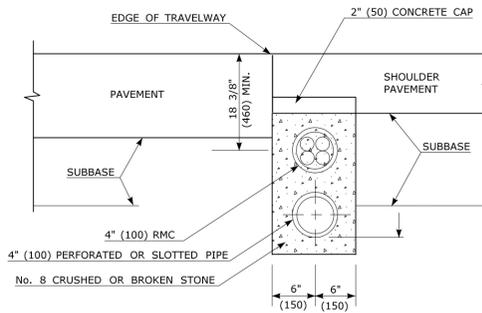


R.M.C. UNDER BITUMINOUS CONCRETE SIDEWALK OR DRIVEWAY

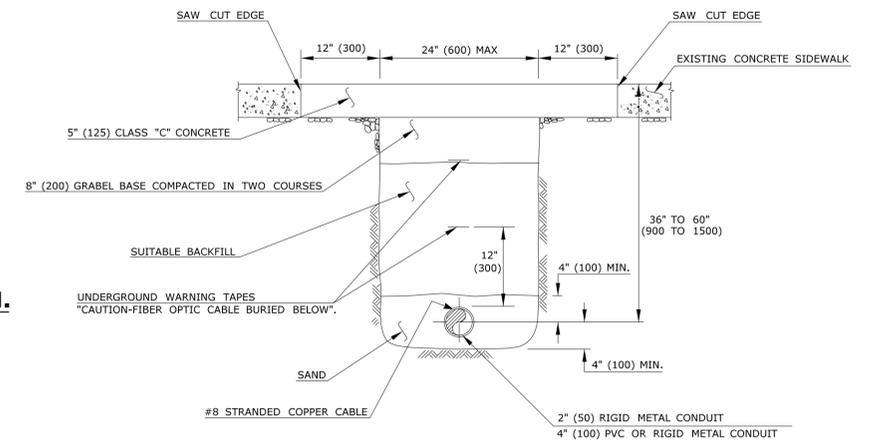


R.M.C. UNDER BITUMINOUS CONCRETE PAVEMENT

NOTE: USE SUPERPAVE LAYERS AS SHOWN OR AS DIRECTED BY THE ENGINEER



TYPICAL CONDUIT INSTALLATION IN AREAS OF PAVEMENT EDGE DRAIN OR UNDERDRAIN.



CONDUIT UNDER CONCRETE SIDEWALK

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER:
D.K. SWINBURNE
CHECKED BY:
R.A. KENNEDY

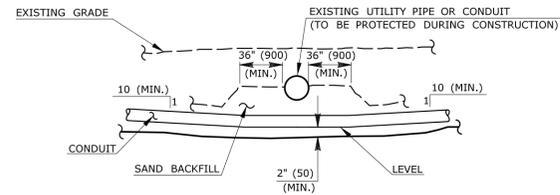


SIGNATURE/BLOCK:
BUREAU OF HIGHWAY OPERATIONS
APPROVED BY: *[Signature]* DATE:

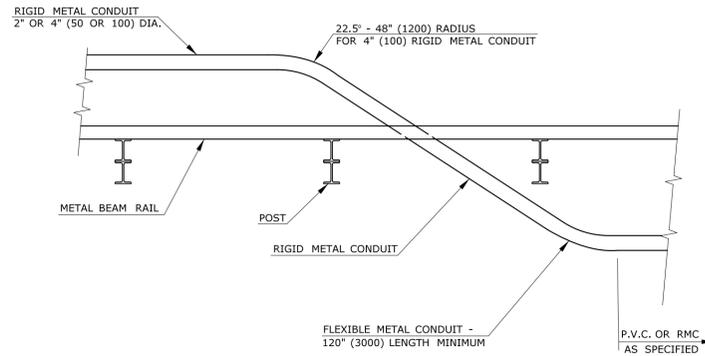
PROJECT TITLE:
BRIDGE NO. 3160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN:
HARTFORD
DRAWING TITLE:
IMS TRENCHING DETAILS

PROJECT NO.
63-699
DRAWING NO.
IMS-08
SHEET NO.
01.09.08

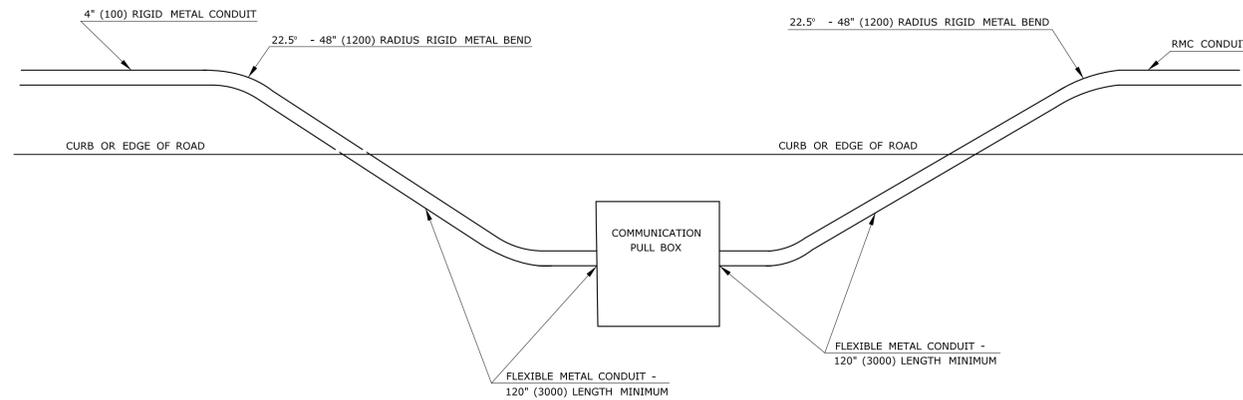


CONDUIT CROSSING UNDER EXISTING UTILITY



NOTES:
 CONTRACTOR TO RESTORE AREAS DISTURBED BY TRENCH TO ORIGINAL CONDITION.
 CONTRACTOR SHALL INSTALL CONDUIT AT A MINIMUM DEPTH OF 40" (1000).
 CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT CONDUIT WILL NOT CONFLICT WITH UNDERGROUND UTILITIES.

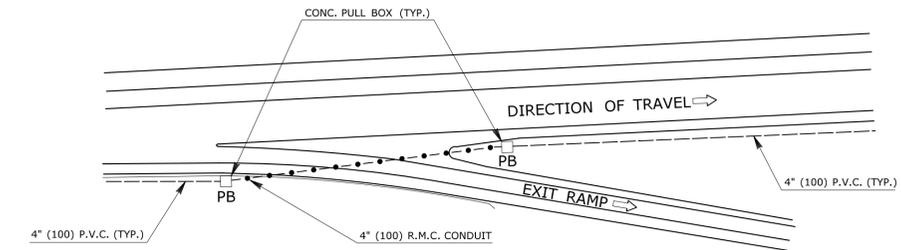
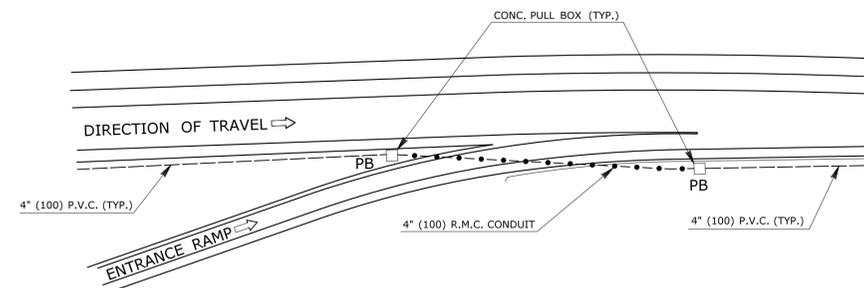
TYPICAL GUIDE RAIL CROSSING



NOTE:
 THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A MINIMUM OF 120" (3000) OF FLEXIBLE CONDUIT ON EACH SIDE OF THE PULLBOX. THIS IS REQUIRED TO INSURE THAT THE INNERDUCTS ENTERING AND EXITING THE PULLBOX WILL LINE UP AND BE PERPENDICULAR TO THE SIDEWALL OF THE PULLBOX.

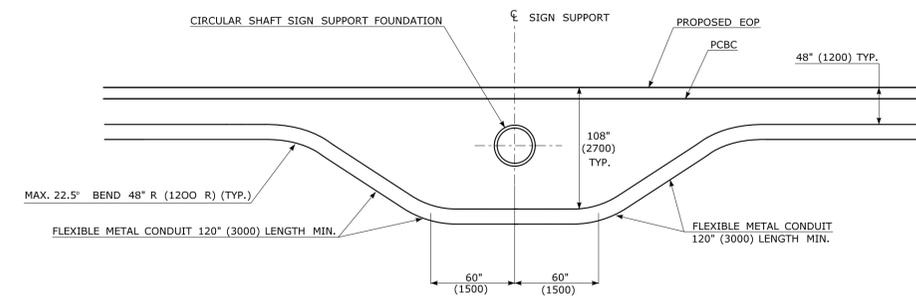
THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THE RADIUS OF THE INSTALLED FLEXIBLE METAL PIPE IS GREATER THAN THE MINIMUM ALLOWED FOR THE FIBER OPTIC CABLE.

TYPICAL PULLBOX INSTALLATION - CONDUIT UNDER ROADWAY



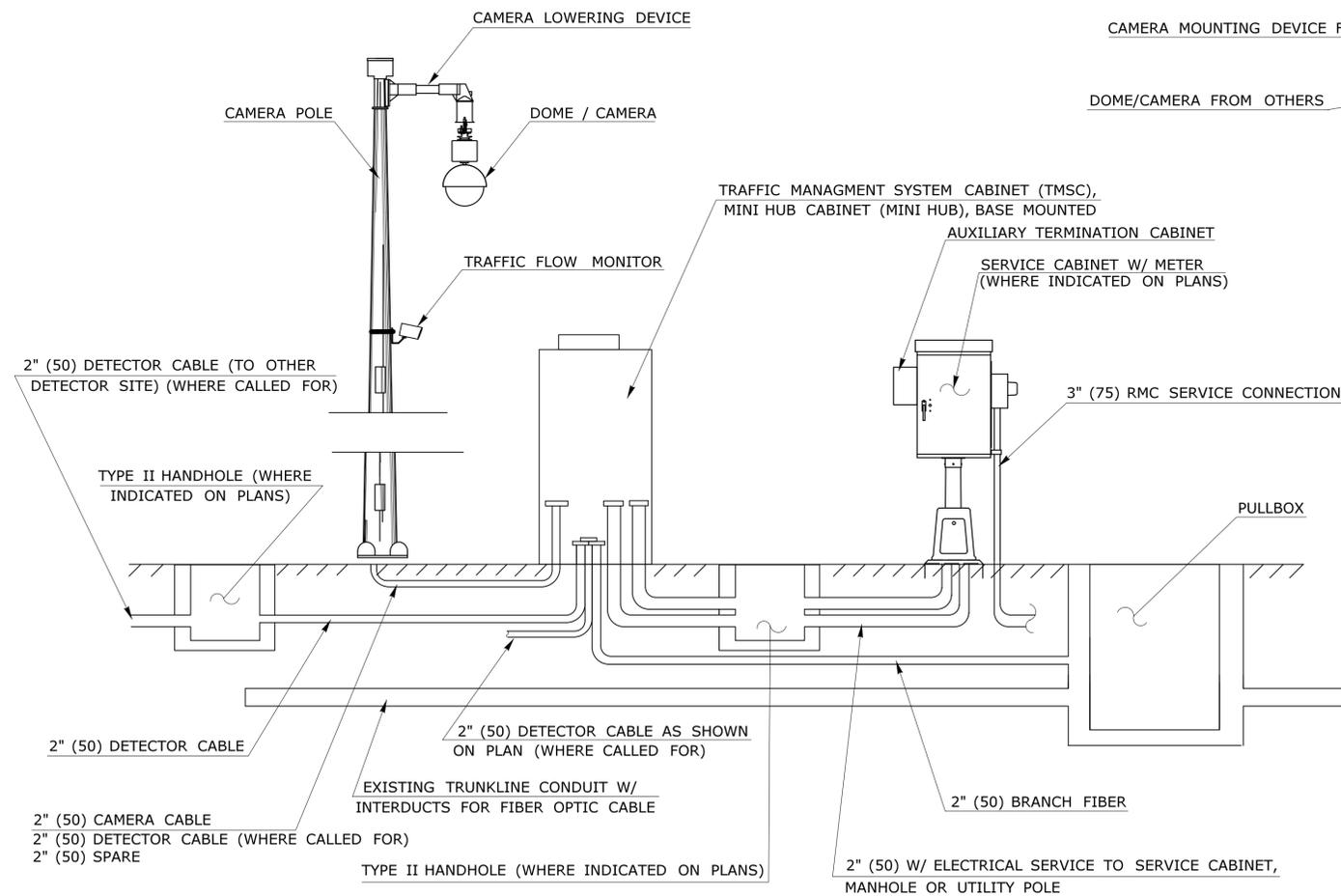
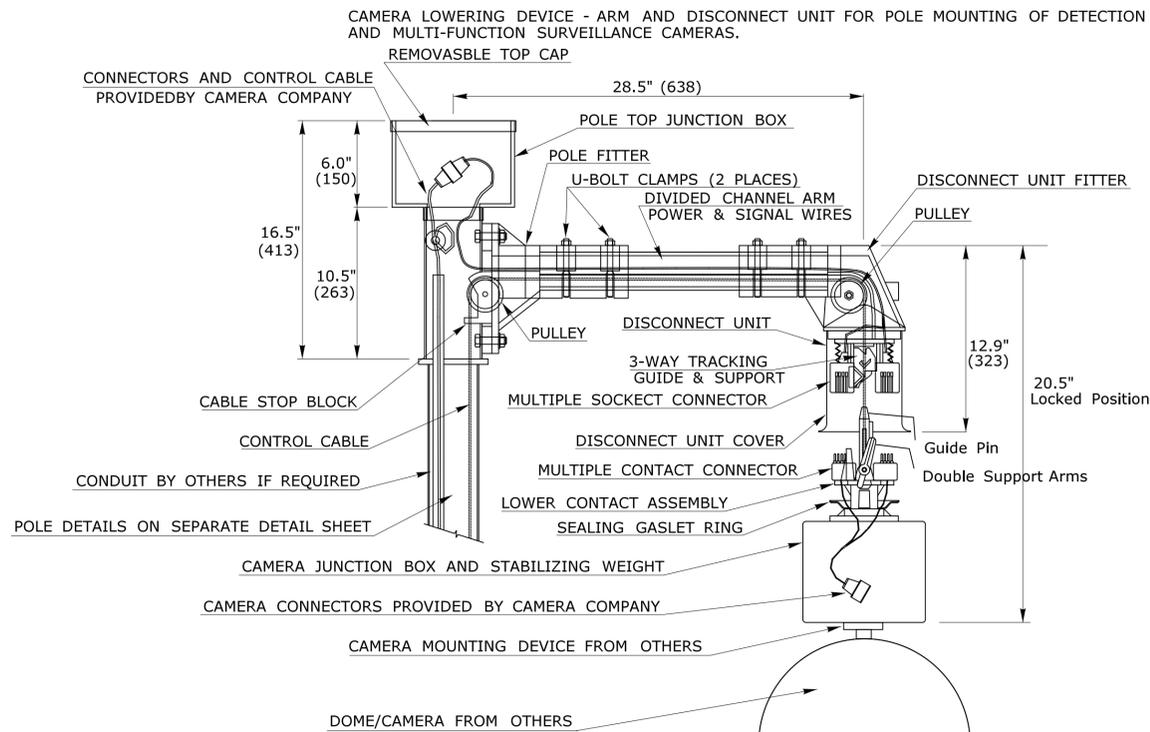
NOTES:
 PULLBOXES SHALL BE INSTALLED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 PULLBOXES SHALL BE ORIENTED TO PROVIDE THE STRAIGHTEST POSSIBLE PULL IN THE CABLE.

TYPICAL RAMP CROSSING

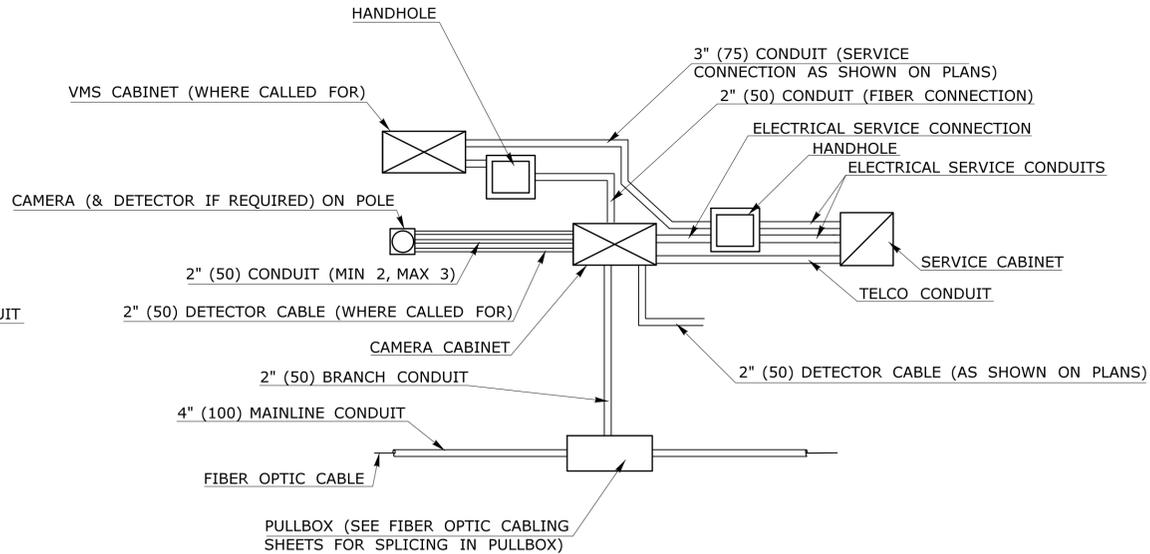


4" (100) CONDUIT TREATMENT AT SIGN SUPPORT

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/1/2016	DESIGNER/DRAFTER: D.K. SWINBURNE	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: BUREAU OF HIGHWAY OPERATIONS	PROJECT TITLE: BRIDGE NO. 3160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)	TOWN: HARTFORD	PROJECT NO. 63-699
					CHECKED BY: R.A. KENNEDY		APPROVED BY: <i>[Signature]</i>	DATE:	DRAWING TITLE: TYPICAL IMS CONDUIT CROSSING DETAILS	SHEET NO. 01.09.09

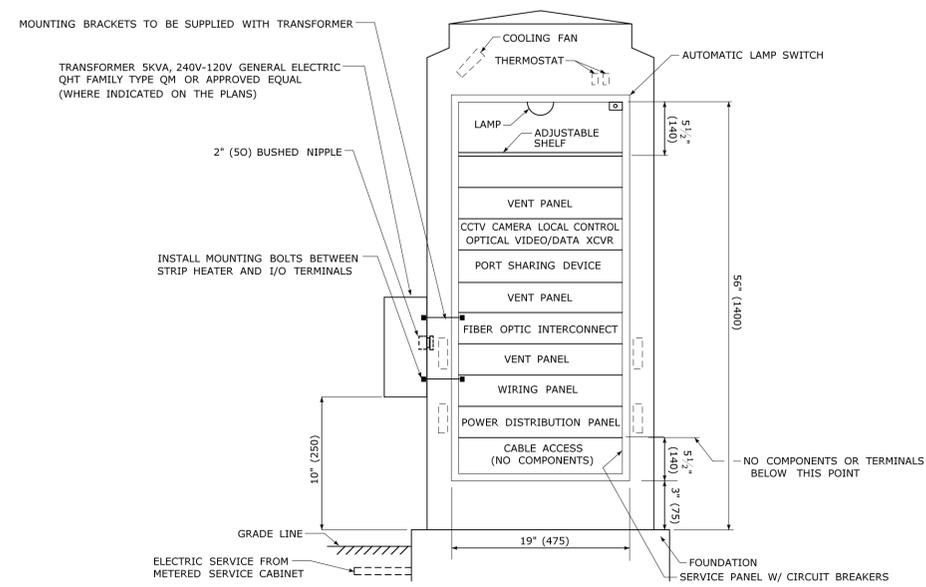


CCTV ELEVATION SCHEMATIC

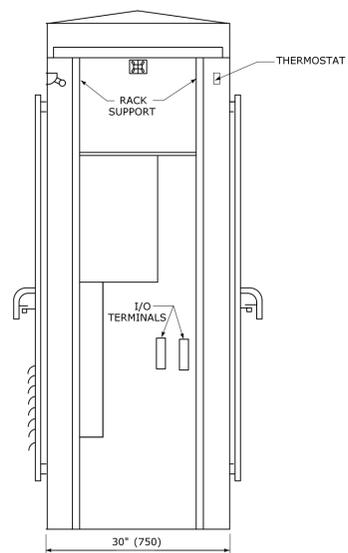


CCTV SCHEMATIC PLAN
SEE SITE PLANS FOR SPECIFIC LAYOUT

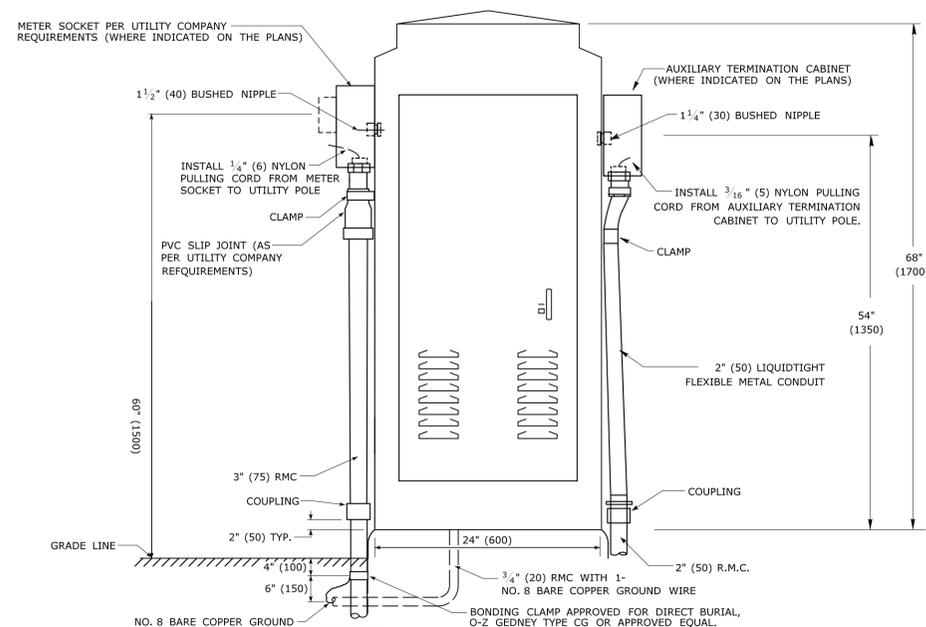
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.																																				
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TRAFFIC MANAGEMENT SYSTEM CABINET (OPEN VIEW)



SIDE VIEW (WITH SIDE PANEL REMOVED)



FRONT VIEW

TRAFFIC MANAGEMENT SYSTEM CABINET AND MINI-HUB CABINET

TRAFFIC MANAGEMENT SYSTEM CABINET AND MINI-HUB CABINET NOTES:

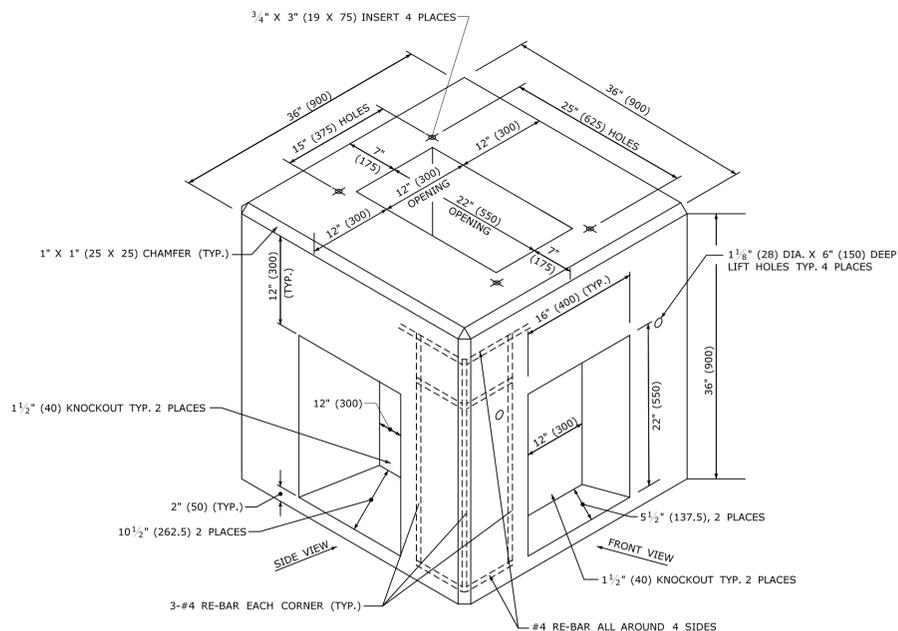
1. CAULK SEAM BETWEEN CABINET AND CONCRETE FOUNDATION.
2. INSTALL CONCRETE SIDEWALK ON FRONT AND BACK SIDE OF FOUNDATION, 36" X 36" (900 X 900), MIN. 4" (100) THICK PITCH SIDEWALK 1/4" PER FOOT (20 PER METER) AWAY FROM FOUNDATION AND INSTALL ON A MINIMUM 6" (150) GRAVEL OR MISCELLANEOUS AGGREGATE BASE, COMPACTED.
3. DUCT SEAL ALL CONDUITS THAT CONTAIN CABLE. CAP ALL UNUSED CONDUITS.
4. VERIFY ANCHOR BOLT PATTERN WITH CABINET MANUFACTURER.
5. FRONT CABINET DOOR TO OPEN FIELD SIDE.
6. CABINET TO BE 170 TYPE.
7. FIELD CABINET FOUNDATION TO SUPPORT TRAFFIC MANAGEMENT SYSTEM CABINET OR MINI HUB CABINET.
8. TRANSFORMER TO BE ATTACHED TO CABINET ON SAME SIDE AS METER LOCATION. CABINETS WITH METERS WHERE SHOWN ON SITE PLANS SHALL NOT REQUIRE TRANSFORMERS.
9. SERVICE PANEL W/ CIRCUIT BREAKERS.

TRAFFIC CONTROL FOUNDATION NOTES, GENERAL:

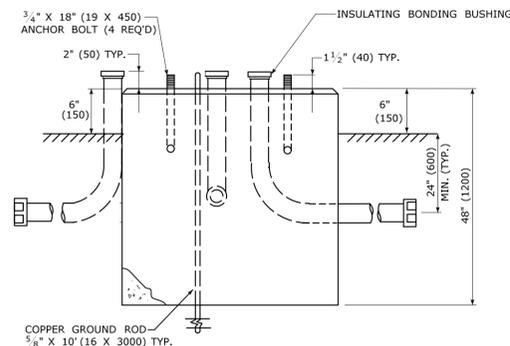
1. INSTALL FOUNDATION ON 6" (150) COMPACTED GRAVEL, IN ACCORDANCE WITH SECTION 2.14.
2. LEVEL FOUNDATION WITH A PROJECTION OF 6" (150) ABOVE FINISHED GRADE.
3. CONCRETE: CLASS "F" CONFORMING TO ARTICLE M. 03-01.
4. #4 RE-BAR, 2" (50) MIN. COVER AROUND ALL OPENINGS. 3 - #4 RE-BARS IN EACH CORNER.
5. CONDUITS SHALL NOT PROJECT MORE THAN 2" (50) ABOVE FOUNDATION.
6. INSTALL A MINIMUM OF ONE SPARE 2" (50) RMC SWEEP IN THE FOUNDATION. SPARE SWEEP SHALL EXTEND A MINIMUM OF 24" (600) OUTSIDE THE FOUNDATION.

TRAFFIC CONTROL FOUNDATION NOTES, PRE-CAST:

1. PLACE NO. 6 CRUSHED STONE IN THE CENTER OPENINGS AFTER THE CONDUITS AND GROUND ROD HAVE BEEN INSTALLED. THE OPENINGS SHALL BE CAPPED WITH A 2" (50) GROUT LEVEL WITH THE TOP OF THE FOUNDATION AND NEATLY FINISHED. THE GROUT SHALL CONFORM WITH THE REQUIREMENTS OF ARTICLE M. 03.01-12.
2. WEAKEN KNOCKOUT WALLS FOR PIPE INSTALLATION IN FIELD.
3. BOLT DOWN CABINET WITH 3/4" (19) HEX HEAD BOLTS 3" (75) LONG.
4. INSTALL A 5/8" X 10' (16 X 3000) COPPER GROUND ROD.



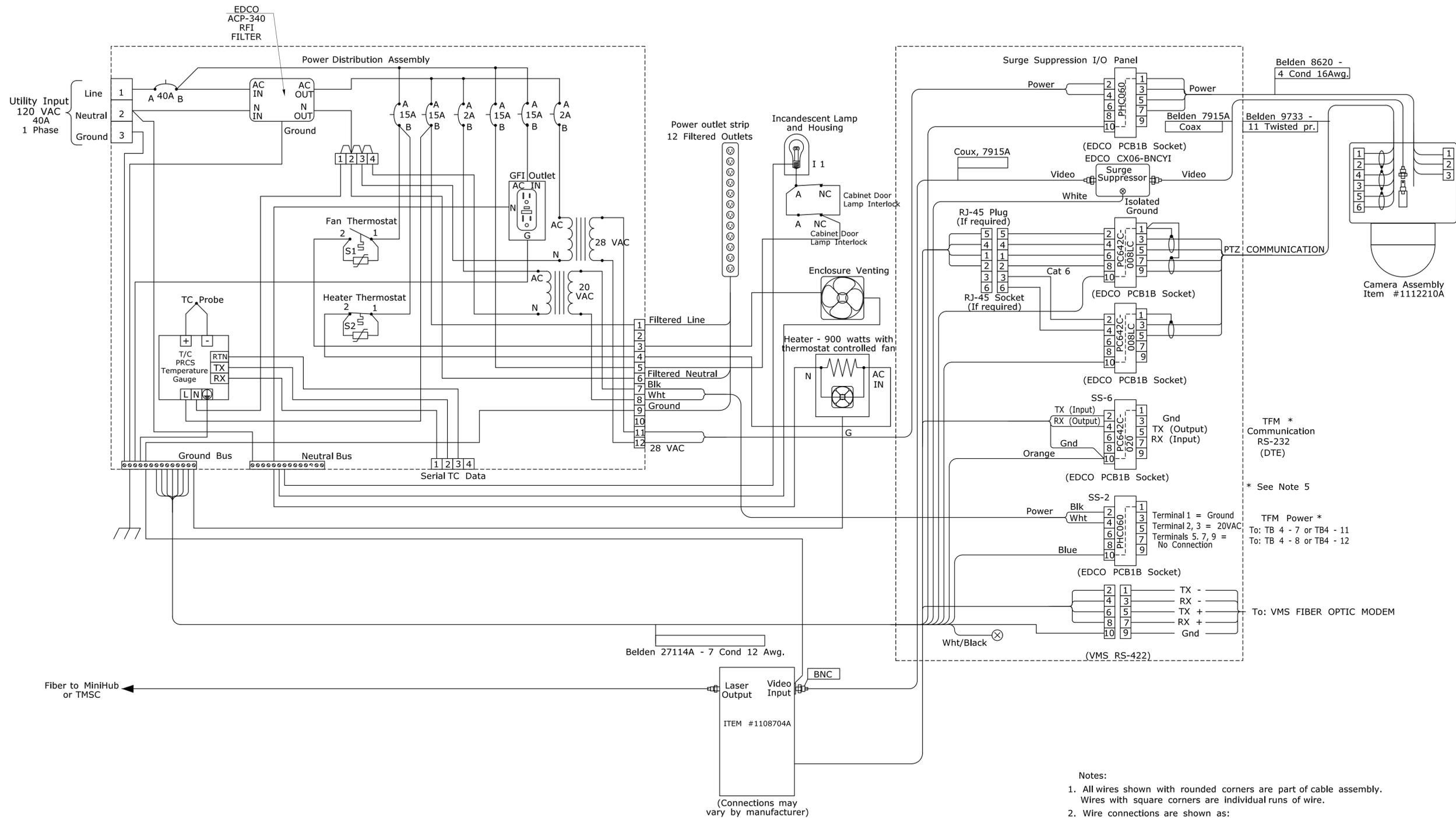
PRE-CAST



CAST IN PLACE

TRAFFIC CONTROL FOUNDATION - CONTROLLER - TYPE IV MODIFIED

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/1/2016	DESIGNER/DRAFTER: D.K. SWINBURNE CHECKED BY: R.A. KENNEDY	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...CTDOT_HIGHWAY_OPS_GD.dgn	SIGNATURE/ BLOCK: BUREAU OF HIGHWAY OPERATIONS APPROVED BY: DATE:	PROJECT TITLE: BRIDGE NO. 3160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)	TOWN: HARTFORD DRAWING TITLE: CAMERA CABINET DETAILS	PROJECT NO. 63-699 DRAWING NO. IMS-11 SHEET NO. 01.09.011
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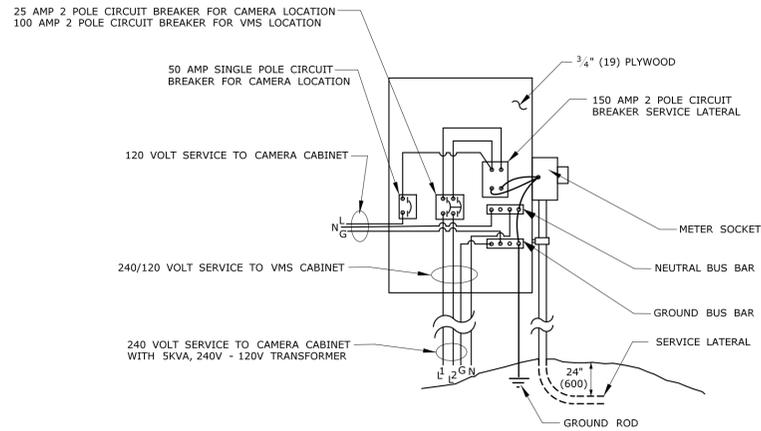
- Notes:
- All wires shown with rounded corners are part of cable assembly. Wires with square corners are individual runs of wire.
 - Wire connections are shown as:

Connections	No Connections
 - All wires will be labeled to industry standards using slip on wire markers with both ends labeled to identify each end of the wire.
 - This sheet is shown as typical. Actual wiring and layout is dependent on material submitted and approved.
 - The wiring / surge suppression I/O panel shall be wired for a minimum

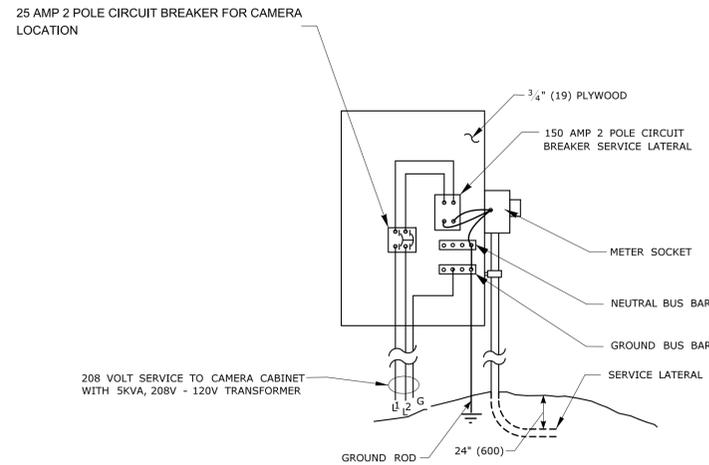
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.												

Plotted Date: 7/1/2016

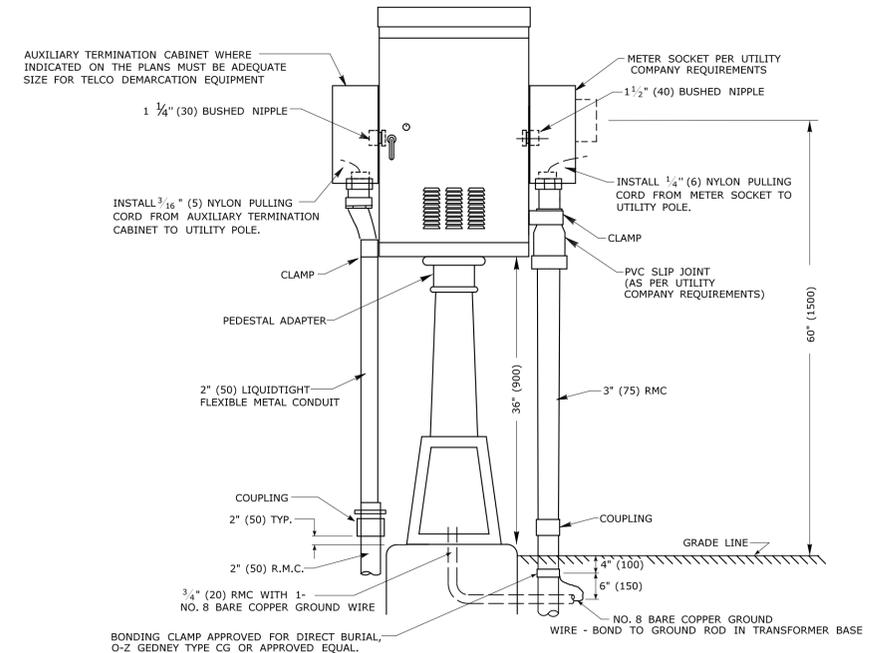
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SERVICE CABINET LAYOUT
SERVICE (120 VOLT, 240 VOLT AND 240/120 VOLT)

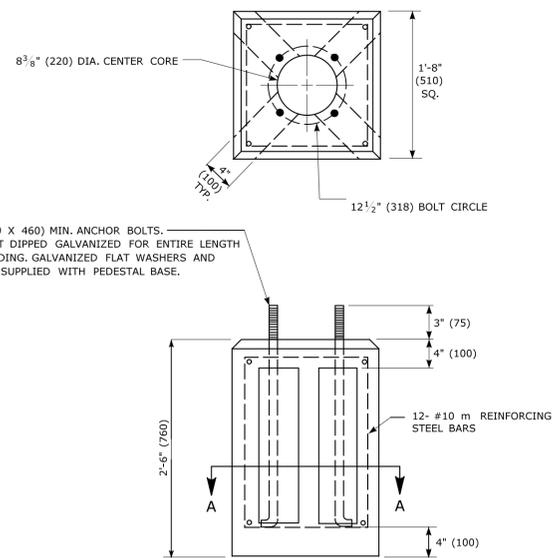


SERVICE CABINET LAYOUT
SERVICE (208 VOLT)

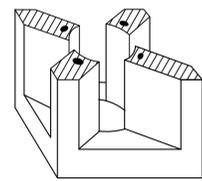


PEDESTAL MOUNTED CABINET

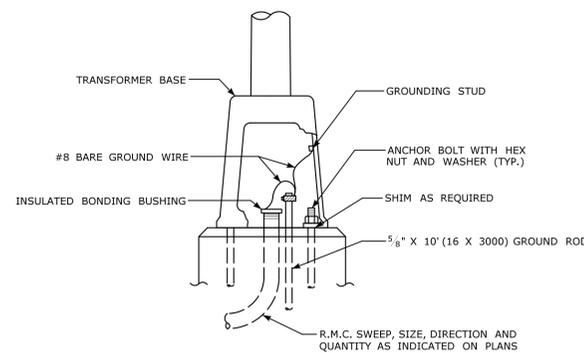
CABINET TYPE	HEIGHT	WIDTH	DEPTH
SERVICE CABINET	36" (900)	20" (500)	16" (400)
AUX. TERM. CABINET	16" (400)	12" (300)	6" (150)



PRECAST PEDESTAL BASE - TYPE I

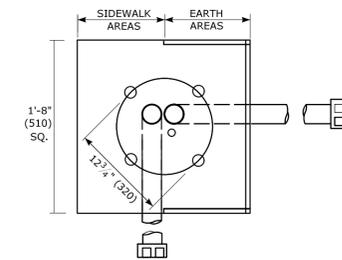


SECTION A - A



NOTES:
PLACE NO. 6 CRUSHED STONE IN CENTER OPENING AFTER CONDUITS AND GROUND ROD HAVE BEEN INSTALLED. THE OPENING SHOULD BE CAPPED WITH 2" (50) GROUT LEVEL WITH THE TOP OF FOUNDATION AND NEATLY FINISHED. THE GROUT SHALL CONFORM WITH THE REQUIREMENTS OF ARTICLE M.03.01-12.

36" (900) ALUMINUM PEDESTAL



TRAFFIC CONTROL FOUNDATION PEDESTAL TYPE I

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
-	-	-	-
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DESIGNER/DRAFTER:
D.K. SWINBURNE
CHECKED BY:
R.A. KENNEDY



SIGNATURE/BLOCK:
BUREAU OF HIGHWAY OPERATIONS
APPROVED BY: _____ DATE: _____

PROJECT TITLE:
BRIDGE NO. 3160A-D, 3301 & 3303 I-84 EB/WB OVER AMTRAK & LOCAL ROADS (AETNA VIADUCT)

TOWN:
HARTFORD
DRAWING TITLE:
TYPICAL ELECTRICAL AND ATC DETAILS

PROJECT NO.
63-699
DRAWING NO.
IMS-13
SHEET NO.
01.09.013