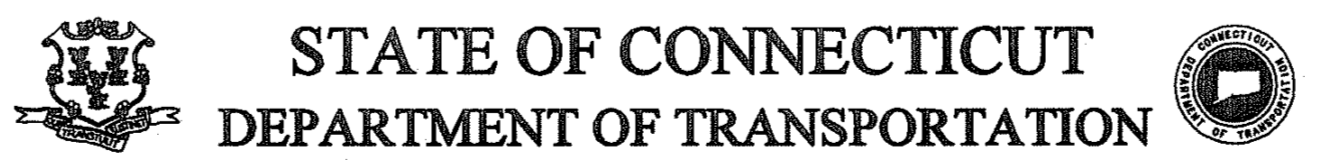



ITEM NUMBER	TRAFFIC CONTROL SIGNAL ITEMS																																											
	0921001A	0921001A	0975002	1001001	1002015	1002202	1002203	1002208	1008114	1008115	1008215	1008907A	1010001	1010021	1102002	1104028A	1104028A	1104028A	1104031A	1105101A	1105102A	1106001A	1106003A	1106004A	1107007A	1108115A	1108244A	1111001A	1111451A	1112700A	1113004	111305D	1113102	1113103	1118012A	1206013A	1208928	1209801	1209802	1209809	1210105	1211001	1220011A	
ITEM	CONCRETE SIDEWALK	MAINTENANCE AND PROTECTION OF TRAFFIC	MOBILIZATION	TRENCHING AND BACKFILLING	ROCK IN FOUNDATION EXCAVATION	TRAFFIC CONTROL FOUNDATION - MAST ARM	TRAFFIC CONTROL FOUNDATION - PEDESTAL TYPE I	TRAFFIC CONTROL FOUNDATION - CONTROLLER TYPE IV	1-1/2" RIGID METAL CONDUIT - IN TRENCH	2" RIGID METAL CONDUIT - IN TRENCH	2" RIGID METAL CONDUIT - UNDER ROADWAY	CLEAN EXISTING CONDUIT	CONCRETE HANDHOLE	CONCRETE HANDHOLE - TYPE II	8" ALUMINUM PEDESTAL	25" STEEL MAST ARM ASSEMBLY	30" STEEL MAST ARM ASSEMBLY	35" STEEL MAST ARM ASSEMBLY	1 WAY, 1 SECTION MAST ARM TRAFFIC SIGNAL	1 WAY, 3 SECTION MAST ARM TRAFFIC SIGNAL	1 WAY PEDESTRIAN SIGNAL POLE MOUNTED	1 WAY PEDESTRIAN SIGNAL PEDESTAL MOUNTED	2 WAY PEDESTRIAN SIGNAL PEDESTAL MOUNTED	PEDESTRIAN PUSH BUTTON AND SIGN (PIEZO)	FULL ACTUATED CONTROLLER & PHASE	PHASE SELECTOR	LOOP VEHICLE DETECTOR	LOOP DETECTOR SAW CUT	PRE-EMPTION SYSTEM CHASSIS	2 CONDUCTOR NO. 8 AWG TYPE SE STYLE THW	2 CONDUCTOR NO. 14 CABLE	5 CONDUCTOR NO. 14 CABLE	7 CONDUCTOR NO. 14 CABLE	REMOVAL AND/OR RELOCATION OF TRAFFIC SIGNAL EQUIPMENT	REMOVAL OF EXISTING SIGNING	SIGN FACE SHEET ALUMINUM (TYPE III REFLECTIVE SHEETING)	4" WHITE TYPE I EPOXY RESIN PAVEMENT MARKINGS	4" YELLOW TYPE I EPOXY RESIN PAVEMENT MARKINGS	12" WHITE TYPE I EPOXY RESIN PAVEMENT MARKINGS	EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS & LEGEND	REMOVAL OF PAVEMENT MARKINGS	CONSTRUCTION SIGN TYPE III REFLECTIVE SHEETING		
UNIT	S.F.	L.S.	L.S.	L.F.	V.F.	EA.	EA.	EA.	L.F.	L.F.	L.F.	HR.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	L.F.	EA.	EA.	L.F.	L.F.	L.F.	L.F.	L.S.	L.S.	S.F.	L.F.	L.F.	L.F.	S.F.	S.F.	S.F.		
	500	L.S.	L.S.	100	4	3	2	1	40	150	20	8	5	3	2	1	1	1	4	6	3	1	1	5	1	1	1	350	1	15	240	600	900	1	1	30	130	900	70	90	200	100		
SUBTOTAL	500	1	1	100	4	3	2	1	40	150	20	8	5	3	2	1	1	1	4	6	3	1	1	5	1	1	1	350	1	15	240	600	900	1	1	30	130	900	70	90	200	100		
UNASSIGNED																																												
TOTAL	500	1	1	100	4	3	2	1	40	150	20	8	5	3	2	1	1	1	4	6	3	1	1	5	1	1	1	350	1	15	240	600	900	1	1	30	130	900	70	90	200	100		

ITEM NUMBER	TRAFFIC CONTROL SIGNAL ITEMS																																																	
ITEM																																																		
UNIT																																																		
SUBTOTAL																																																		
UNASSIGNED																																																		
TOTAL																																																		

REV.	DATE	DESCRIPTION	SHEET NO.	DESIGNER: H. DITMAN	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		PROJECT TITLE:	TOWN:	PROJECT NO.:
		REVISIONS		DRAFTER: N. ANTONUCCI			CHECKED BY:	ENGINEER: MILONE & MACBROOM, INC.	TRAFFIC SIGNAL MAPLE ST. AT OLD FIREHOUSE RD.
				CHECKED BY:	APPROVED BY:	DATE: 10/20/10	CADD FILE:	MS-DET.dwg	PLOTTED: 5/18/11
				DATE CHECKED:				DRAWING TITLE:	SHEET NO.:
								DETAILED ESTIMATE SHEET	2

NONE	PRE-EMPT 1		PRE-EMPT 2																				
	1	2	3	4																			
NTOR	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	
F A C E #	1	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	2	R	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	3	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	4	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	5	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
P	OFF		DW																				
MIN	5	3	0	15	3	0	7/10	4	0	5	3	0											
MAX	15	5	3	50	5	3	7/20	4	0.1	30	5	3											
I N T E R V A L S	MIN GRN	5			20						7												
	WALK										7												
	PED CLR										9												
	VEH EXT	1.5									1.5												
	MAX 1	12									20												
	MAX 2	12									20												
	YELLOW		3			3			4		0				3								
	RED			0.5				2															
	ADD INIT																						
	MAX INIT																						
TBR																							
TTR																							
MIN GAP																							
MODE	NON-LOCK		MAX RECALL		NON-LOCK		NON-LOCK		OFF		OFF		OFF		ON / OMIT								
INT START			THIS PHASE																				

ENERGY BY - NAUGATUCK ADDRESS #
MAINT LEVEL - SERVICE UNDERGROUND INTERSECTION #
UNMETERED SERVICE

SIGNAL FACES

ALL INDICATIONS TO BE LED LAMPS

PRE-EMPTION SETTINGS

	PRE-EMPTION 1	PRE-EMPTION 2
PRIORITY	NO	NO
DET LOCK	YES	YES
DELAY	0	0
ALT MIN GREEN	5	5
ALT YELLOW	PARENT	PARENT
ALT RED	PARENT	PARENT
ALT PED CLR	9	9
HOLD GREEN	15	15
HOLD YELLOW	3	3
HOLD RED	1	2
HOLD PHASE	4	8
EXIT PHASE	2	2
EXIT CALL	NONE	NONE

TECHNICAL NOTES

PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION
PHASE 2 ON TO OMIT PHASE 1

① TO BE "Y" IF PHASE 2 NEXT
② TO BE "R" IF PHASE 2 NEXT
③ COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CLEARANCE INTERVAL.
MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CLEARANCE INTERVAL.
PRE-EMPTION PHASES 4 AND 8 TO BE ACTIVATED BY PUSH BUTTONS IN FIREHOUSE.

TOWN SIGNAL

TOWN OF NAUGATUCK
MAPLE STREET AT
OLD FIREHOUSE ROAD

REV # _____ DATE _____
ENGINEER: MILONE & MACBROOM 10/28/10
DRAWN BY: _____
CHECKED BY: _____
SUBMITTED BY: _____
APPROVED BY: _____
DATE: _____

CONSTRUCTION NOTES :

ALL EQUIPMENT AND WIRING ARE NEW, EXCEPT AS NOTED.

ALL MATERIAL AND CONSTRUCTION METHODS SHALL CONFORM TO THE FOLLOWING CURRENT DOT DOCUMENTS WHICH CAN BE ACCESSED ON THE DOT WEBSITE.

- * STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION (FORM 816).
- * SUPPLEMENTAL SPECIFICATIONS TO FORM 816.
- * SPECIAL PROVISIONS TO FORM 816.
- * TYPICAL INSTALLATION DRAWINGS.

STAKE ALL R.O.W. PRIOR TO EXCAVATION.

SEGMENTED LOOPS TO BE SPliced IN SERIES.

INSTALL LOOP DETECTORS CENTERED IN LANE AND 8' APART UNLESS OTHERWISE SPECIFIED.

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR AT BACK OF SIDEWALK AS SHOWN.

INSTALL 8 PHASE CONTROLLER AND TYPE D CABINET ON A TYPE IV FOUNDATION.

CABINET DOOR TO OPEN STREET SIDE. LEAVE 3 SETS OF WIRING DIAGRAMS IN CONTROLLER CABINET.

LOOP DETECTOR SAWCUT RUNS ARE FOR ILLUSTRATION PURPOSES ONLY. PLEASE REFER TO TYPICAL INSTALLATION DETAILS.

INSTALL LOOP DETECTOR SAWCUT WIRES THROUGH HANDHOLE (H) (WITH NO SPLICES) AND THROUGH THE 2" RMC, THEN SPliced TO CORRESPONDING LOOPS IN EACH LANE IN HANDHOLE (U). TWIST LOOP DETECTOR SAWCUT WIRES INSIDE THE 2" RMC ACCORDING TO THE TYPICAL PLAN.

(X) REMOVE EXISTING CONTROLLER FOUNDATION AND INSTALL HANDHOLE. EXISTING CONDUIT TO REMAIN AS SHOWN.

(L) REMOVE EXISTING PED. FOUNDATION AND INSTALL NEW MAST ARM FOUNDATION ADJACENT TO BACK OF WALK, AT LOCATION SHOWN.

(R) INSTALL NEW HANDHOLE ADJACENT TO EXISTING PED. FOUNDATION. REDIRECT EXISTING CONDUIT INTO NEW HANDHOLE AS SHOWN.

(U) LOCATE EXISTING WIRING THAT GOES FROM THE TWO EXISTING FIREHOUSE PRE-EMPTION BUTTONS THROUGH THE BUILDING TO THE STREET AND CONNECT TO NEW 14/5 CABLE.

(V) INSTALL NEW PEDESTRIAN PEDESTAL ON EXISTING FOUNDATION.

(W) INSTALL 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

(X) INSTALL FOUNDATION(S) ADJACENT TO BACK OF WALK.

(Y) REMOVE EXISTING FOUNDATION TO A SUFFICIENT DEPTH IN ORDER TO INSTALL NEW HANDHOLE. REDIRECT EXISTING CONDUIT INTO NEW HANDHOLE AS SHOWN.

REMOVE ALL ABANDONED FOUNDATIONS IN SIDEWALKS AT LEAST 6" BELOW FINISHED GRADE.

INSTALL PAVEMENT MARKINGS AS SHOWN. REMOVE ANY CONFLICTING MARKINGS.

THE MAST ARM ASSEMBLY WORKING SHOP DRAWINGS HAVE TO BE REVIEWED AND ACCEPTED BY THE DESIGN ENGINEER OF RECORD.

THE LOCATION OF TRAFFIC SIGNAL APPURTENANCES (MAST ARMS, PEDESTALS AND HANDHOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 3 FEET. IF A MIN. 3 FOOT FREE PATH IS UNAVAILABLE, THE CONTRACTOR MUST CONTACT THE ENGINEER.

INSTALL SIGN 41-0820 "NEW SIGNAL IN OPERATION" ON ALL APPROACHES AND REMOVE AFTER 14 CALENDAR DAYS FROM THE DATE THE SIGNAL IS PLACED IN OPERATION.

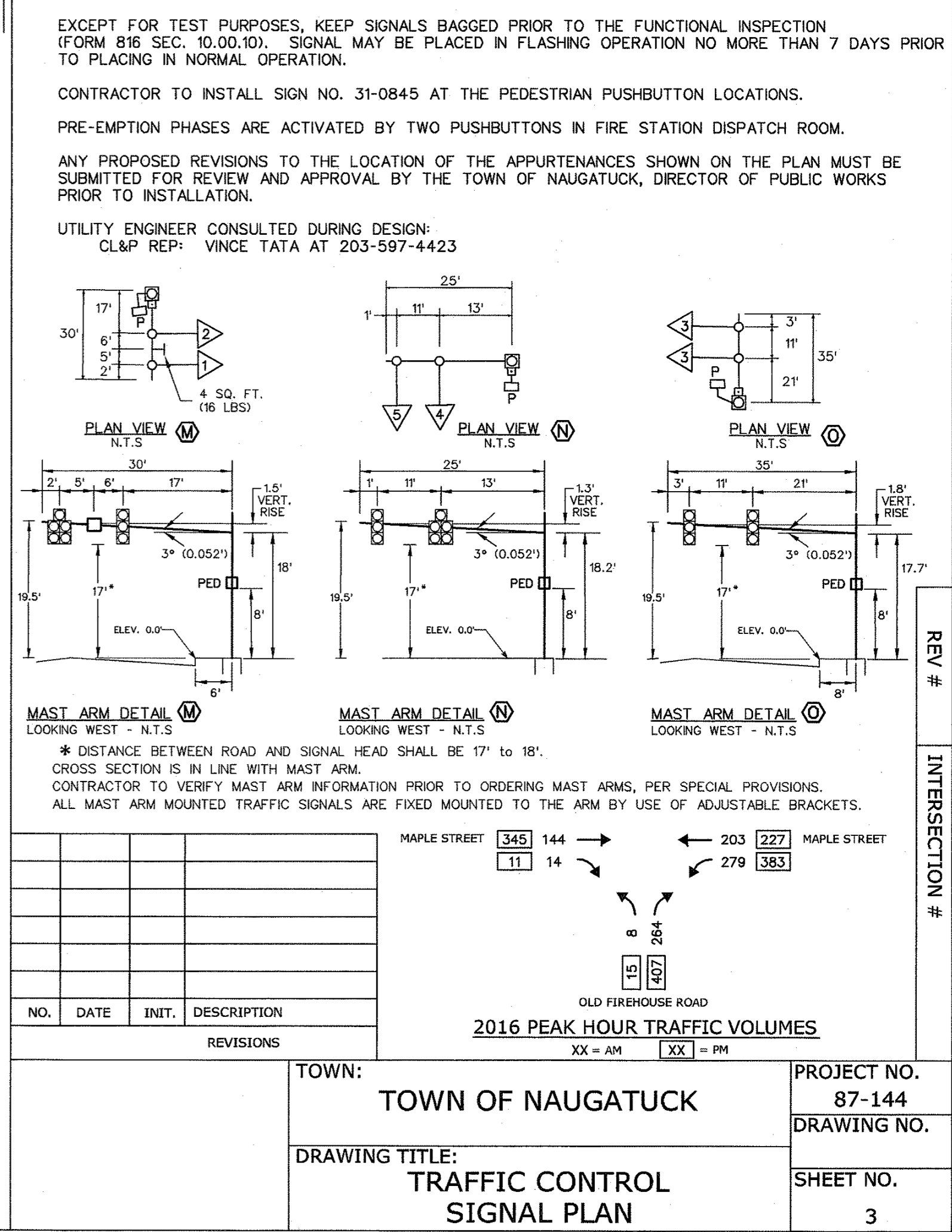
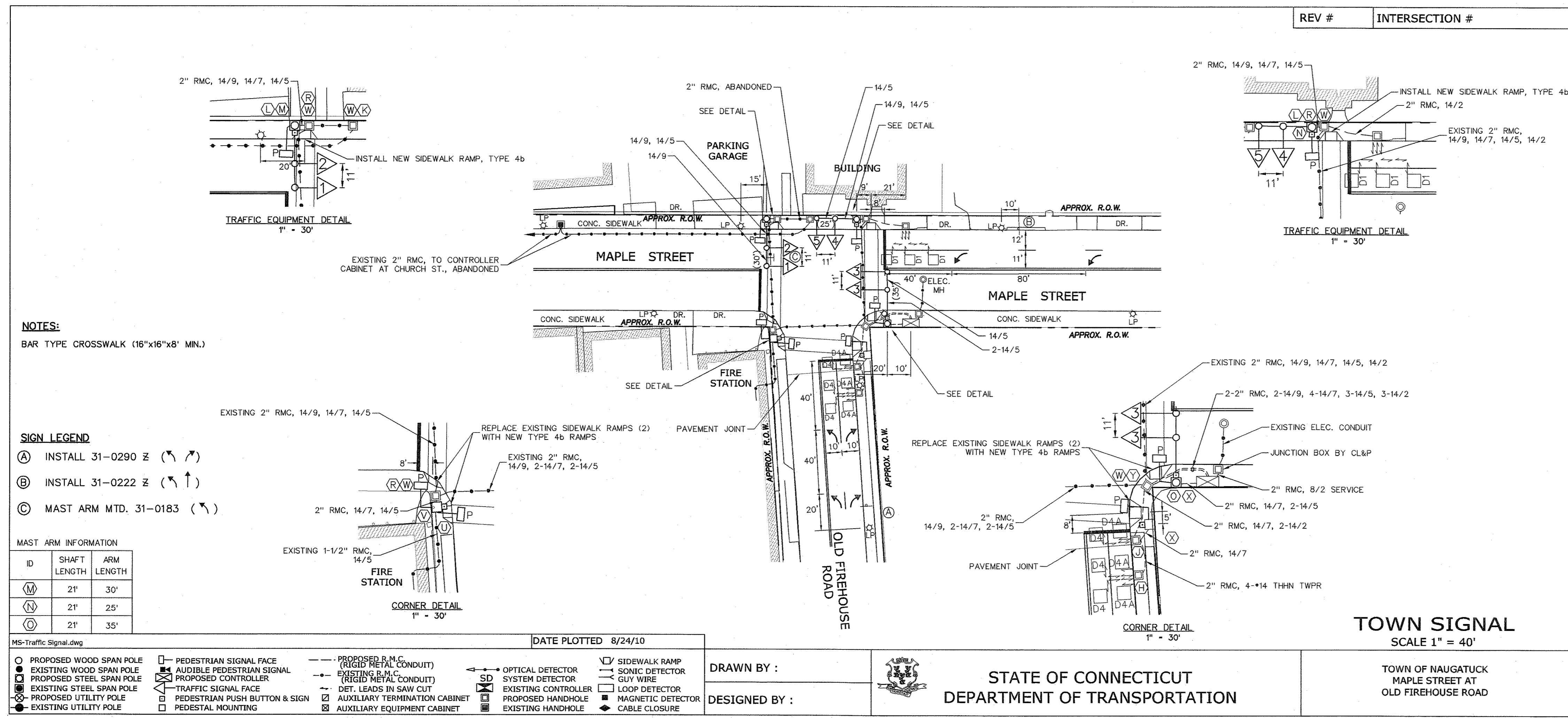
EXCEPT FOR TEST PURPOSES, KEEP SIGNALS BAGGED PRIOR TO THE FUNCTIONAL INSPECTION (FORM 816 SEC. 10.00.10). SIGNAL MAY BE PLACED IN FLASHING OPERATION NO MORE THAN 7 DAYS PRIOR TO PLACING IN NORMAL OPERATION.

CONTRACTOR TO INSTALL SIGN NO. 31-0845 AT THE PEDESTRIAN PUSHBUTTON LOCATIONS.

PRE-EMPTION PHASES ARE ACTIVATED BY TWO PUSHBUTTONS IN FIRE STATION DISPATCH ROOM.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE TOWN OF NAUGATUCK, DIRECTOR OF PUBLIC WORKS PRIOR TO INSTALLATION.

UTILITY ENGINEER CONSULTED DURING DESIGN:
CL&P REP: VINCE TATA AT 203-597-4423



FINAL SUBMISSION

DOCUMENT ALL LOOP DETECTOR VALUES BOTH CALCULATED AND MEASURED.

DEFINITIONS:

LOOP: #14 AWG WIRE IN SAWCUT, TERMINATED IN HANDHOLE, IMSA SPEC 51-7.
 LEAD-IN: 14/2 SHIELDED TWISTED PAIR CABLE FROM HANDHOLE TO CONTROLLER, IMSA SPEC 50-2.
 LOOP CIRCUIT: LOOP SAWCUT WIRE SPLICED TO 14/2 LEAD-IN CABLE.
 AMPLIFIER: ELECTRONIC DEVICE CONNECTED TO LOOP CIRCUIT. SENSES CHANGE IN RESONANT FREQUENCY AND CREATES AN OUTPUT TO THE CONTROLLER.
 MEGOHMMETER: INSTRUMENT SPECIFICALLY DESIGNED TO TEST THE INSULATION RESISTANCE OF A CIRCUIT. COMMON MANUFACTURERS: AMEC®, AMPROBE®, FLUKE®, MEGGER®.

1: RESISTANCE:

1a: INSULATION RESISTANCE: PERFORM A 600 VOLT (MINIMUM) MEGOHMMETER TEST ON LOOP CIRCUIT. THE LOOP AMPLIFIER MUST BE DISCONNECTED FROM THE LOOP CIRCUIT OR THE LOOP AMPLIFIER WILL BE DAMAGED. THE RESISTANCE OF THE LOOP WIRE TO GROUND MUST BE GREATER THAN 100 MEG OHMS.

1b: WIRE RESISTANCE: MEASURE THE DC RESISTANCE OF THE LOOP CIRCUIT. THE LOOP CIRCUIT MUST BE DISCONNECTED FROM THE AMPLIFIER. USING AN OHMMETER CONNECTED ACROSS THE LOOP CIRCUIT, MEASURE THE DC RESISTANCE OF THE CONDUCTORS. THE RESISTANCE SHOULD BE LESS THAN 4 OHMS.

NOTE: ALL TESTS SHALL BE DONE AT THE CONTROLLER ASSEMBLY (CA), HOWEVER IT IS RECOMMENDED TO PERFORM A PRELIMINARY MEGOHMMETER TEST AT THE HANDHOLE PRIOR TO SEALING THE SAWCUT AND SPLICING TO THE LEAD-IN. IF A DEFECTIVE LOOP WIRE IS FOUND, IT MAY BE EASILY REPLACED.

2: LOOP CIRCUIT INDUCTANCE:

2a: CALCULATE INDUCTANCE OF LOOP (L_{Loop}) AND LEAD-IN CABLE (L_{14/2}).

LOOP INDUCTANCE (ENGLISH)	LOOP INDUCTANCE (METRIC)
$L_{Loop} = (P/4)(N^2 + N)$	$L_{Loop} = (3.28P/4)(N^2 + N)$
LEAD-IN INDUCTANCE	LEAD-IN INDUCTANCE
$L_{14/2} = (0.24 \mu\text{H}/\text{FT})(D)$	$L_{14/2} = (0.78 \mu\text{H}/\text{m})(D)$

WHERE:

L_{Loop} = INDUCTANCE OF INDIVIDUAL LOOP SEGMENTS IN MICROHENRIES (μH).
 L_{14/2} = INDUCTANCE OF LEAD-IN CABLE.
 P = PERIMETER OF INDIVIDUAL LOOP SEGMENT, IN FEET OR METERS.
 N = NUMBER OF TURNS.
 D = LENGTH OF LEAD-IN CABLE FROM SPLICE IN HANDHOLE TO CONTROLLER, IN FEET OR METERS.
 $L_T = L_1 + L_2 + L_3$ etc., (TOTAL INDUCTANCE OF SEGMENTED LOOP SPLICED IN SERIES.)
 $L_T = 1 / [(1/L_1) + (1/L_2) + (1/L_3) + \text{etc.}]$, (TOTAL INDUCTANCE OF SEGMENTED LOOP SPLICED IN PARALLEL.)

WHERE:

L_T = TOTAL INDUCTANCE OF THE SEGMENTED ARRANGEMENT.
 L₁, L₂, L₃ = INDUCTANCE OF INDIVIDUAL LOOP SEGMENTS.

EXAMPLE: (IN ENGLISH)

6' x 6', 4 TURNS, APPROXIMATELY 300' FROM THE CONTROLLER

$L_{Loop} = (24/4)(4^2 + 4)$	$L_{14/2} = (0.24 \mu\text{H}/\text{FT})(300)$
$L_{Loop} = (6)(20)$	$L_{14/2} = (0.24)(300)$
$L_{Loop} = 120 \mu\text{H}$	$L_{14/2} = 72 \mu\text{H}$

2b: MEASURE INDUCTANCE OF LOOP AND LEAD-IN AT CONTROLLER. USE INSTRUMENT DESIGNED TO MEASURE LOOP CIRCUIT INDUCTANCE.

3: POWER INTERRUPTION:

AFTER THE AMPLIFIER HAS TUNED AND IS OPERATING, DISCONNECT POWER BY REMOVING FUSE OR HARNESS CONNECTOR. RETURN POWER TO THE AMPLIFIER AND CONFIRM IT RE-TUNES AUTOMATICALLY WITHOUT ANY MANUAL ADJUSTMENTS.

INDUCTIVE LOOP TEST PROCEDURE

PIN	COLOR	FUNCTION
A	WHITE	110 VAC Neutral
B	BROWN	Output Relay Common (moving contact)
C	BLACK	110 VAC (Fused)
D	RED	Loop
E	ORANGE	Loop
F	YELLOW	Output Relay Contact (Closes with moving contact when detecting vehicle)
G	BLUE	Output Relay Contact (Closes with moving contact when detecting vehicle)
H	GREEN	Chassis Ground
J	GREY	110 VAC Delay/Extend Override
Shell		Ground (shall be connected to pin H in the connector)

DETECTOR AMPLIFIER PIN DESIGNATION

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
 □ INDUCTIVE LOOP DETECTOR
 --- SAW CUT
 --- RIGID METAL CONDUIT
 □ HANDHOLE

REV.	DATE	REVISION DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
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-	-	-
-	-	-
-	-	-

NOT TO SCALE

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

Plotted Date: 9/11/2009
 Filename: CTDOT_TRAFFIC.STD.dgn
 Model: TR-1000_01

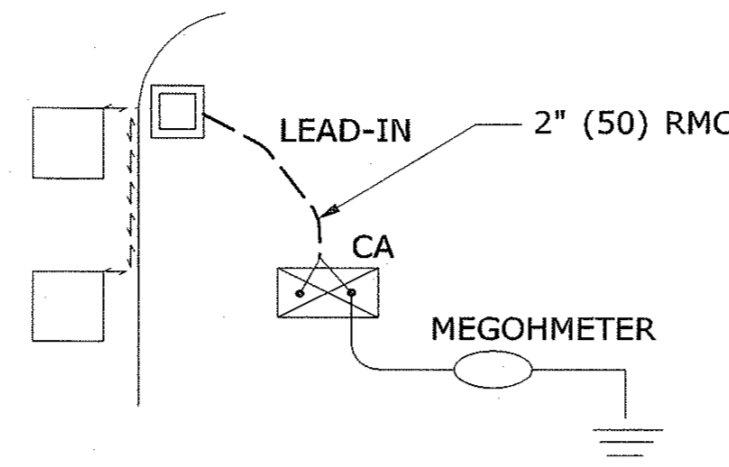
SUBMITTED BY: Tracy L. Fogarty
 NAME/DATE/TIME: Tracy L. Fogarty
 2009.09.15 08:09:00 -04'00'

APPROVED BY: John F. Carey
 NAME/DATE/TIME: John F. Carey
 2009.09.16 08:16:38 -04'00'

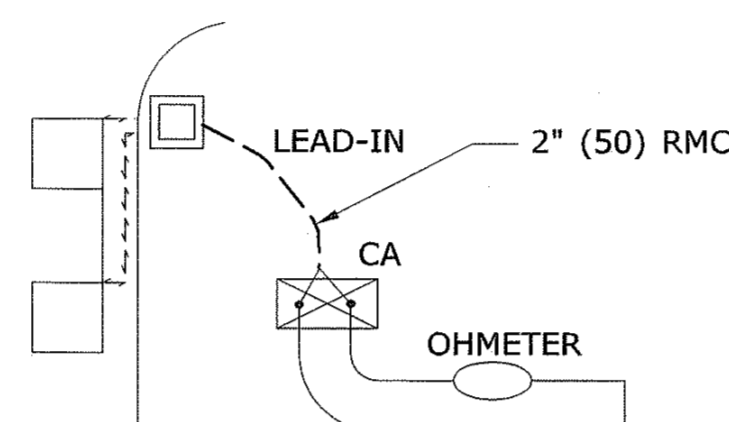
CTDOT
 STANDARD SHEET
 OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
**GENERAL CLAUSES
 (TEST PROCEDURES)**

STANDARD SHEET NO.:
TR-1000_01



TEST 1a



TEST 1b

LOOP NUMBER	RESISTANCE OHMS		INDUCTANCE MICROHENRIES (μH)		AMPLIFIER POWER INTERRUPTION PASS/FAIL (3)
	TO GROUND (1a)	LOOP WIRE (1b)	CALCULATED (2a)	MEASURED (2b)	
D1 FRONT					
D1 REAR					
D2A					
D2B					
D4A FRONT					
D4B REAR					
D5					
D6A					
D6B					

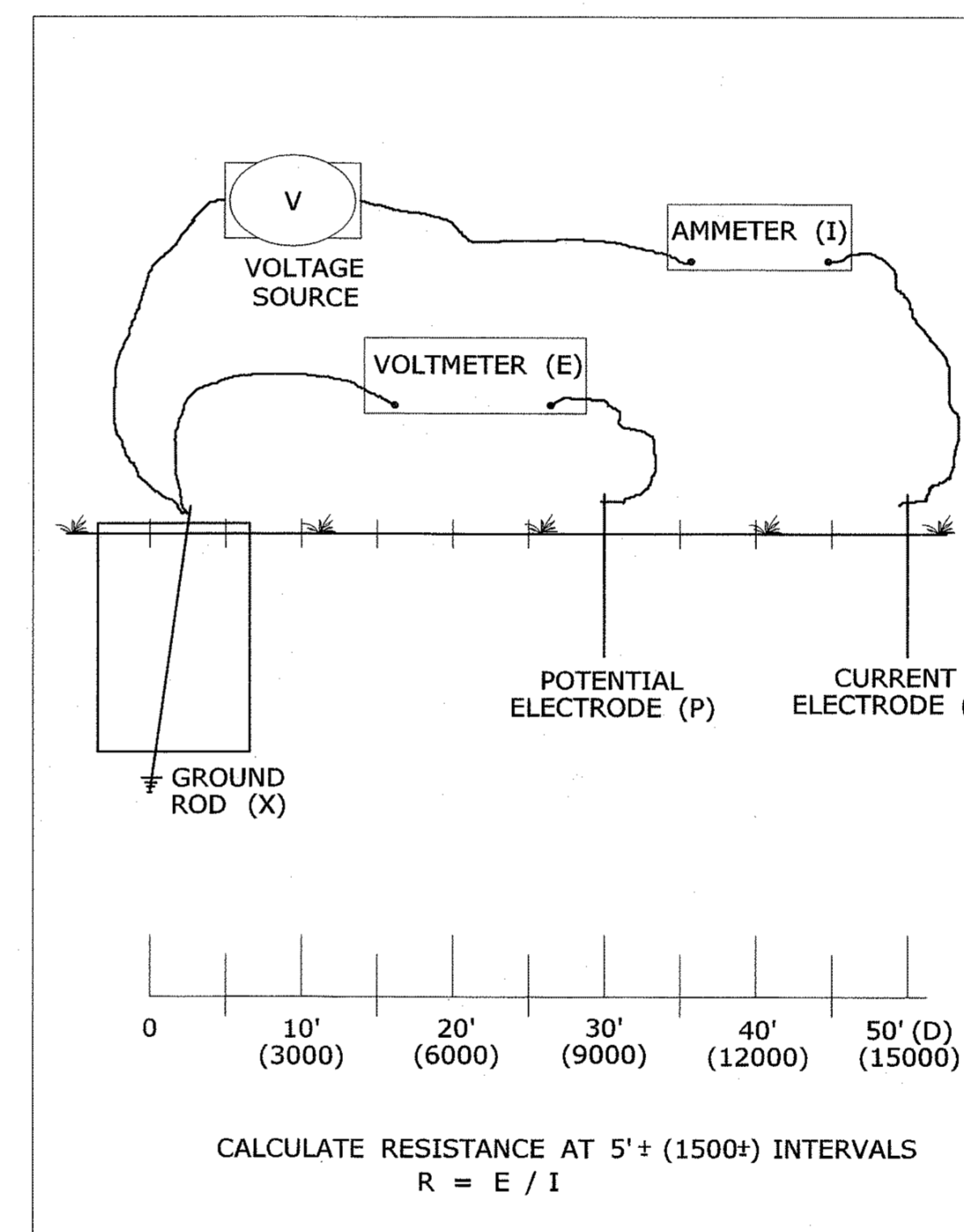
LOOP CIRCUIT TEST DATA (EXAMPLE)

TEST PROCEDURE:

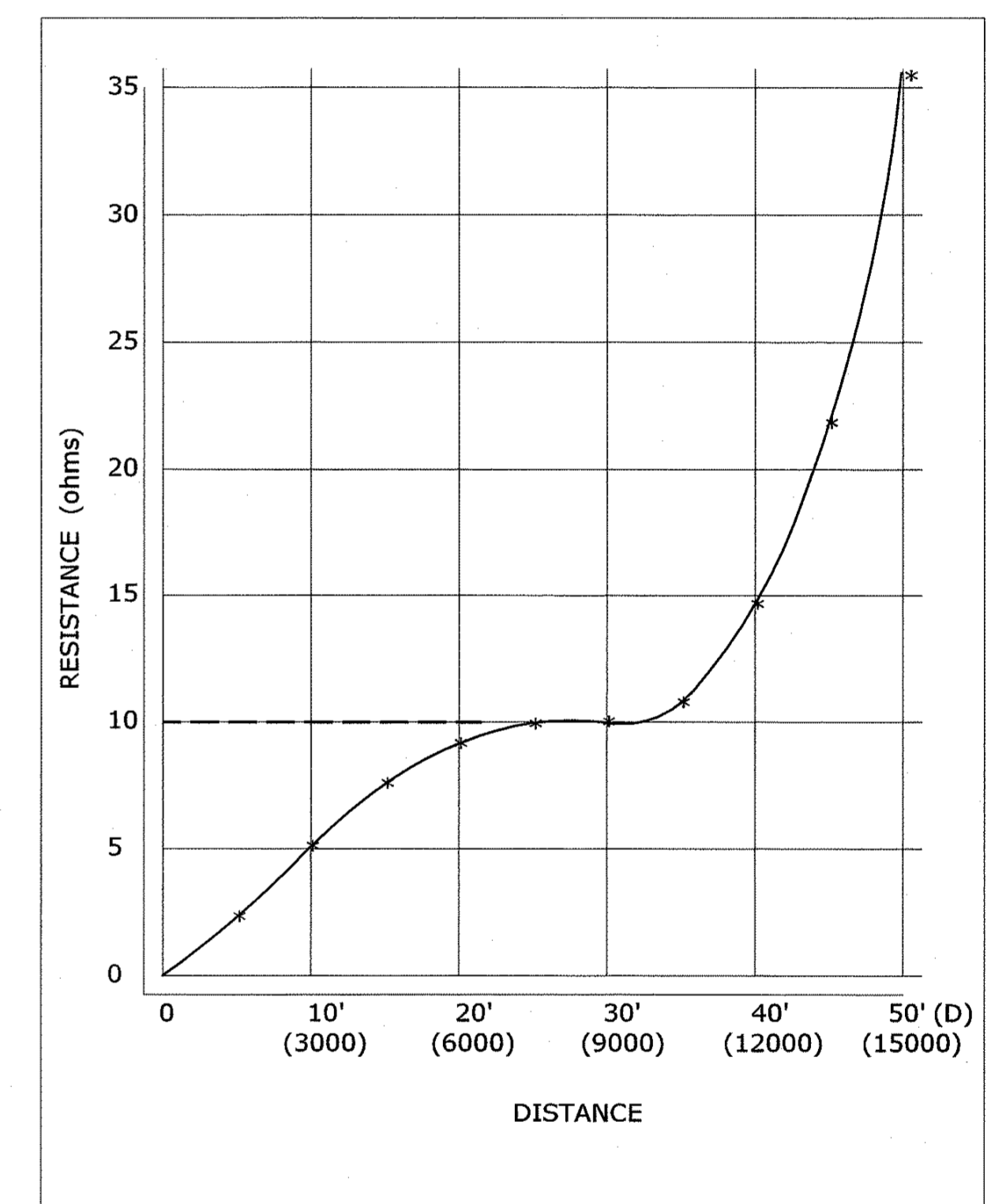
- INSERT ELECTRODE (C) A DISTANCE (D) FROM THE FOUNDATION. RECOMMEND A MINIMUM 50'.
- CONNECT A VOLTAGE SOURCE AND AMMETER BETWEEN THE FOUNDATION GROUND ROD (X) AND C.
- MEASURE THE CURRENT FLOW (I) BETWEEN X AND C.
- INSERT POTENTIAL ELECTRODE (P) AT 5' (1500) INTERVALS IN A STRAIGHT LINE TO ELECTRODE C.
- MEASURE VOLTAGE (E) AT EACH LOCATION OF P.
- CALCULATE RESISTANCE (R) AT EACH LOCATION OF P USING THE FORMULA R=E/I.
- PLOT THE VALUES ON A RxD GROUND RESISTANCE CHART.
- THE ACTUAL GROUND RESISTANCE IS WHERE THE PLOTTED CURVE IS RELATIVELY FLAT, USUALLY AT 62% OF D.
- SEE EXAMPLE CHART: CURVE FLATTENS OUT AT 10 OHMS, APPROXIMATELY 30' (9000) FROM FOUNDATION.
- IF GROUND RESISTANCE IS GREATER THAN 10 OHMS, PERFORM CORRECTIVE ACTION AND RE-TEST.

SUGGESTED CORRECTIVE ACTION:

- A. INSTALL ADDITIONAL 10' (3000) GROUND ROD(S). REFER TO NESC SECTION 09, RULE 94.B.2. DRIVE ADDITIONAL GROUND RODS NO CLOSER TO FOUNDATION THAN 6' (1800). IF MORE THAN ONE IS NEEDED, SPACE MINIMUM 6' (1800) APART. BONDS TO ADDITIONAL GROUND ROD(S) SHALL BE MADE BY A CLAMP DESIGN FOR DIRECT BURIAL OR BY EXOTHERMIC WELDING TECHNIQUE. TOP OF ADDITIONAL GROUND ROD(S) SHALL BE 6" (150) BELOW GRADE.
- B. IN AREAS OF SHALLOW BEDROCK, INSTALL A GROUND GRID OR ARRAY CONSISTING OF BURIED WIRE, RODS, STRIPS OR PLATES. REFER TO NESC SECTION 09, RULE 94.B.3. REFER TO NEC SECTION 250. MINIMUM DEPTH OF 18" (450). GRID CONNECTIONS AND BONDS ON GROUND GRID SHALL BE MADE BY CLAMPS DESIGNED FOR DIRECT BURIAL OR BY EXOTHERMIC WELDING TECHNIQUE.



3 POINT GROUND RESISTANCE TEST CIRCUIT

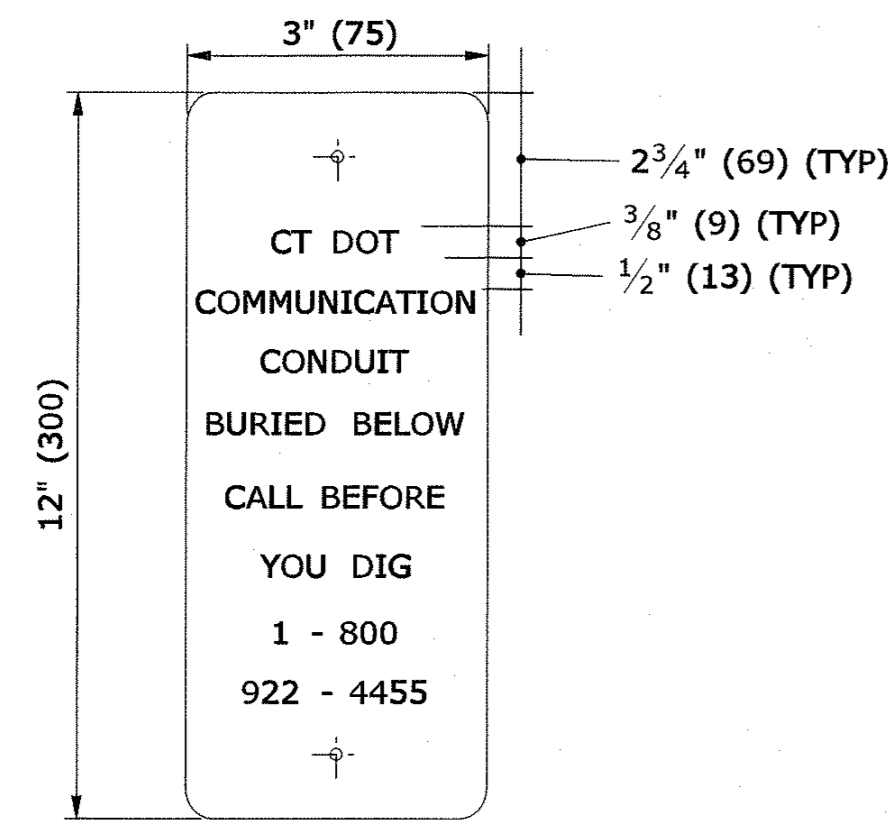


GROUND RESISTANCE CHART (EXAMPLE)

NOTES:

1. DURING THE TEST, THE GROUND ROD SHOULD NOT BE BONDED TO ANY RMC IN THE FOUNDATION.
2. THE VOLTAGE SOURCE, VOLTMETER, AMMETER, ELECTRODES P AND C, AND CONNECTING CABLES ARE AVAILABLE AS A SPECIALIZED TEST INSTRUMENT.
3. REFER TO NATIONAL ELECTRICAL SAFETY CODE (NESC) SECTION 09, GROUNDING METHODS FOR ELECTRIC SUPPLY AND COMMUNICATIONS FACILITIES.
4. REFER TO NATIONAL ELECTRICAL CODE (NEC) CHAPTER 2, ARTICLE 250, GROUNDING.

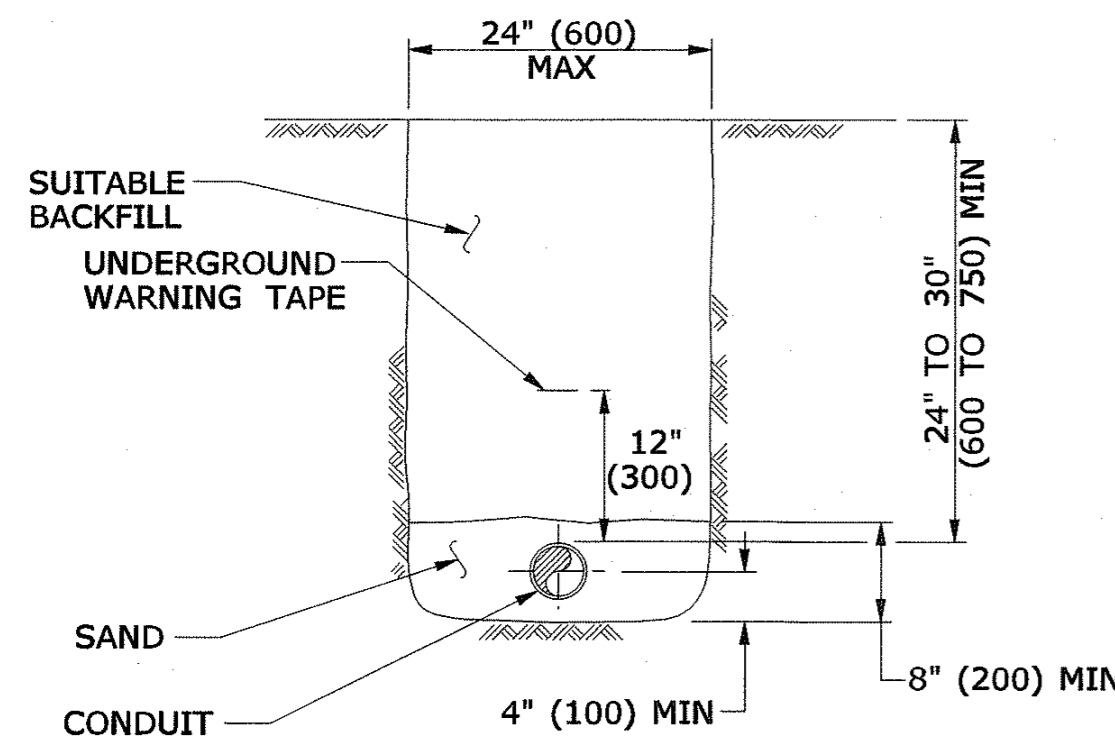
3 POINT FALL-OF-POTENTIAL GROUND RESISTANCE TEST



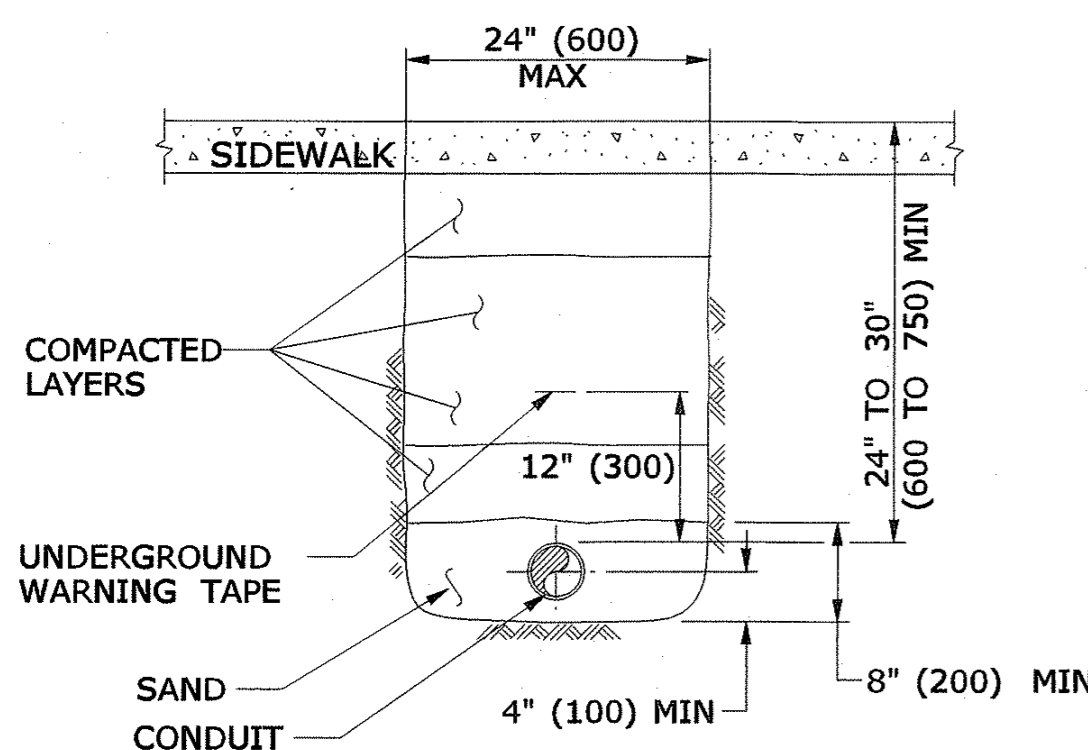
SIGN FACE DETAIL

NOTES:

1. SIGN COLORS: BACKGROUND - ORANGE (REFLECTORIZED) LETTERING - BLACK (OPAQUE).



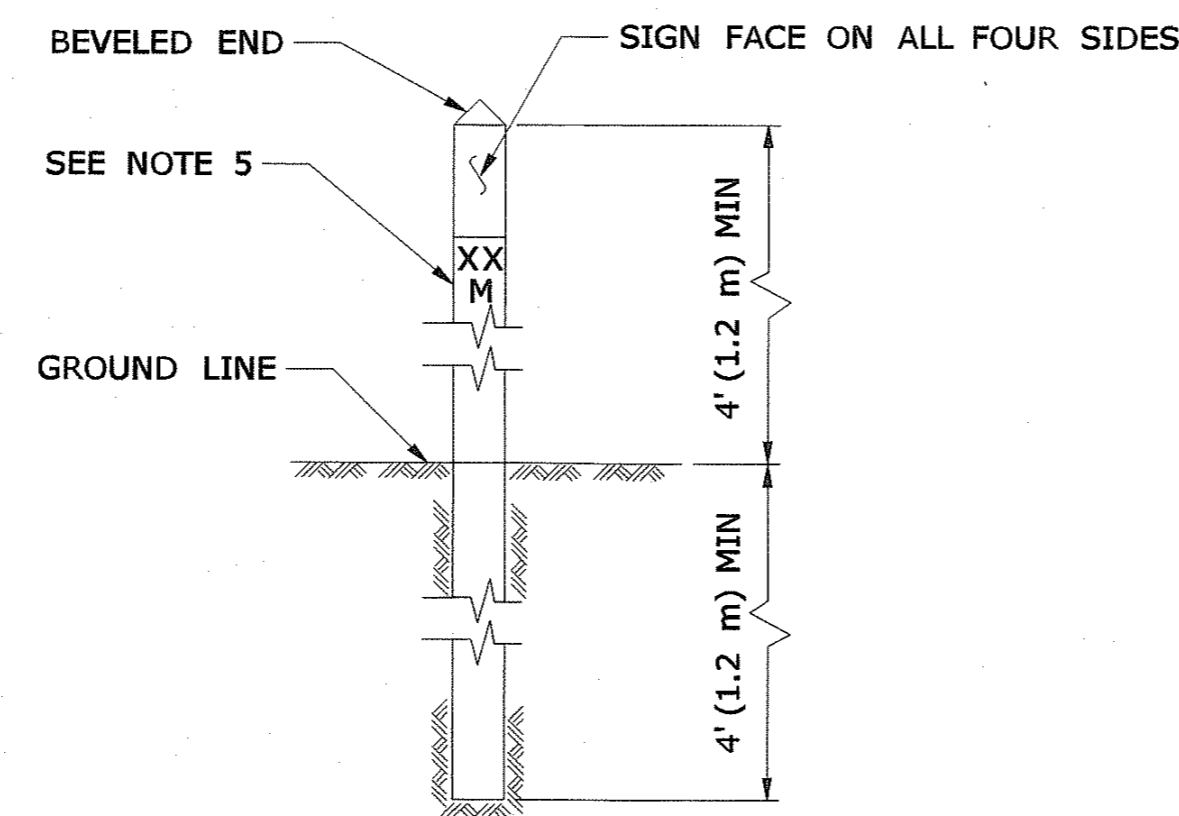
CONDUIT IN EARTH



CONDUIT UNDER SIDEWALK

NOTE:

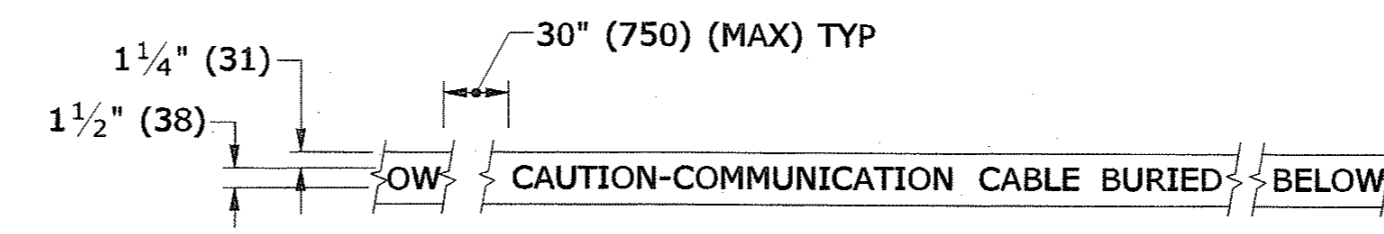
1. COMPACT BACKFILL IN 6"± (150±) LAYERS, IN ACCORDANCE WITH SECTION 9.21.03.



INTERCONNECT CONDUIT IDENTIFICATION POST DETAIL

NOTES:

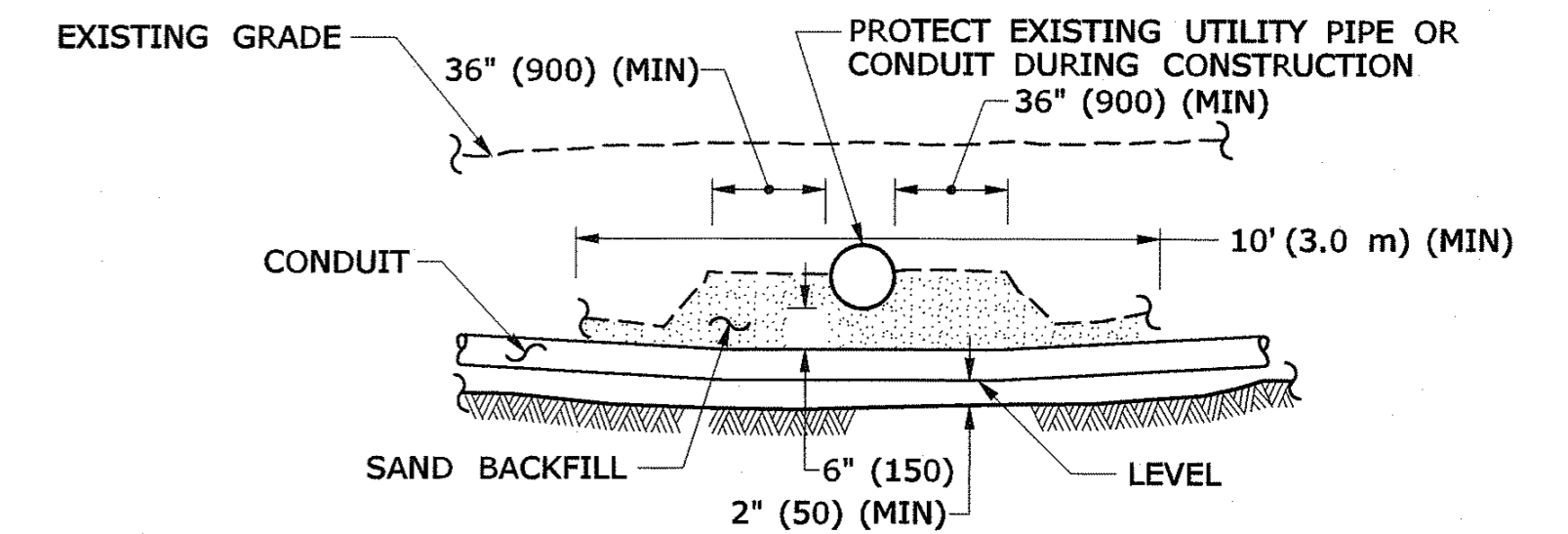
1. 4" x 4" (100 x 100) NOMINAL, PRESSURE TREATED WOOD POST.
2. ATTACH SIGN (41-4669) TO POST WITH 1/4" x 1 1/4" (6 x 31) STAINLESS STEEL LAG SCREW WITH NYLON WASHER ON FACE OF SIGN.
3. INSTALL POST APPROX 24" (600) FROM RMC IN VICINITY OF EACH PULL BOX.
4. INSTALL POSTS BETWEEN PULL BOXES, APPROX 10' (3.0 m) OFF CURB. SPACE POSTS 1500'± (460 m±) APART.
5. PERMANENTLY ATTACH STAINLESS STEEL NUMBERS INDICATING DISTANCE TO TRENCH IN FEET (METERS) CONTAINING COMMUNICATION CABLE. ATTACH NUMBERS TO SIDE OF POST FACING CONDUIT. INCLUDE "M" SUFFIX IF METERS.



INTERCONNECT CONDUIT UNDERGROUND DETECTABLE WARNING TAPE

NOTES:

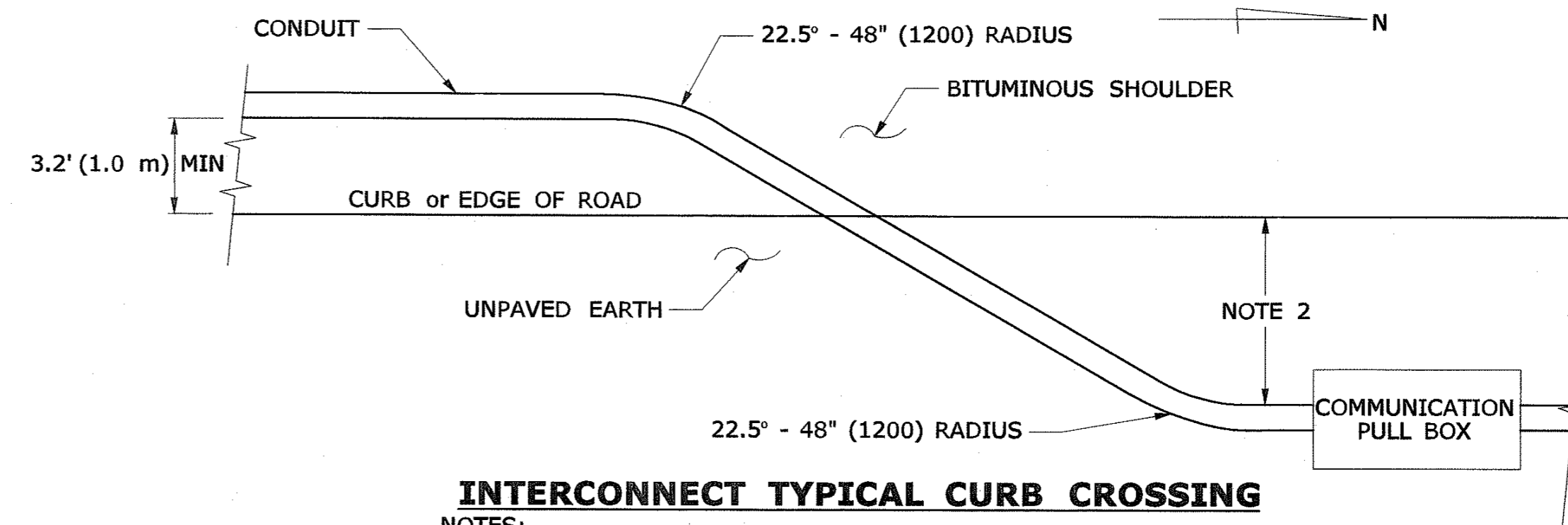
1. TAPE COLORS: BACKGROUND - ORANGE; LETTERS - BLACK.
2. PLACE WARNING TAPE IN TRENCH OVER CONDUIT AS SHOWN ON THE TRENCH DETAILS.



INTERCONNECT CONDUIT CROSSING UNDER EXISTING UTILITY

NOTE:

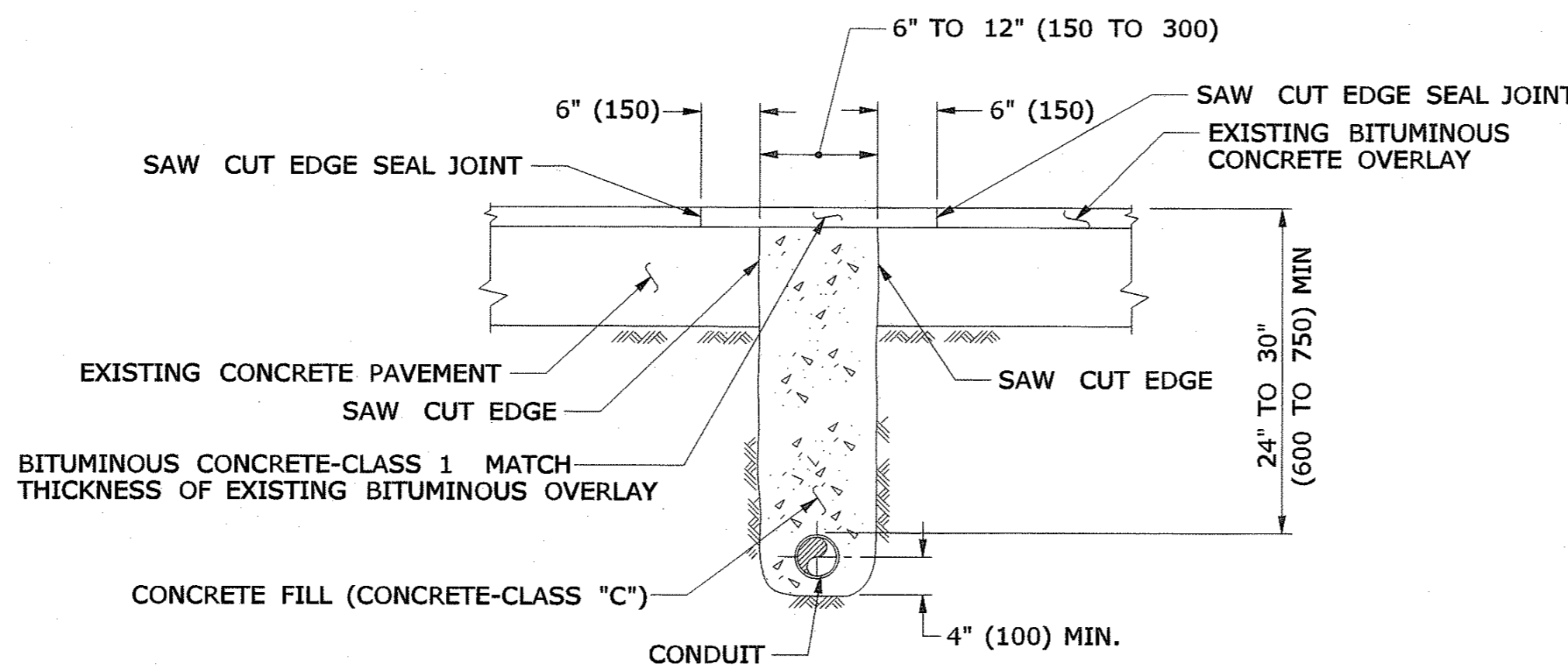
1. INSTALL CONDUIT UNDER EXISTING UTILITY CONDUIT ENCOUNTERED AT APPROXIMATELY SAME DEPTH.



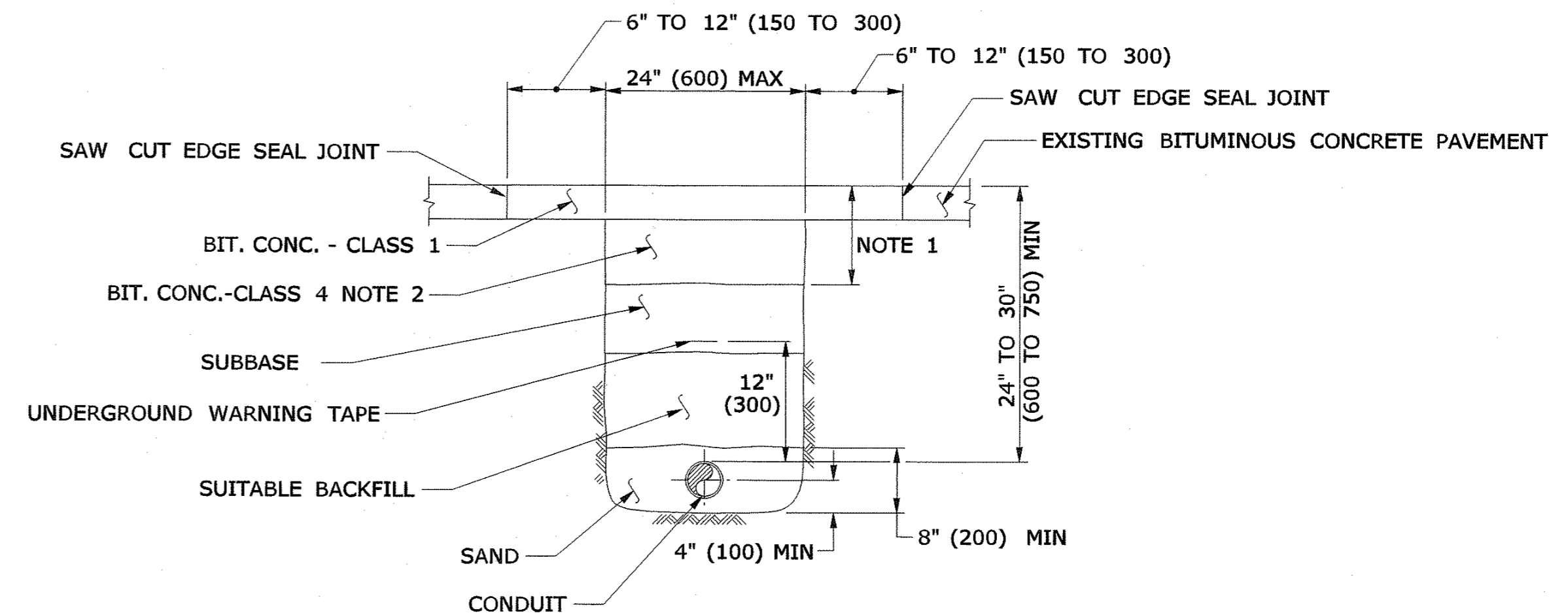
INTERCONNECT TYPICAL CURB CROSSING

NOTES:

1. RESTORE AREAS DISTURBED BY TRENCH TO ORIGINAL CONDITION.
2. INSTALL PULL BOX A MINIMUM OF 10' (3.0 m) FROM CURB UNLESS OTHERWISE SHOWN ON PLANS OR DIRECTED BY ENGINEER.



CONDUIT UNDER BITUMINOUS CONCRETE OVERLAYED CONCRETE PAVEMENT



CONDUIT UNDER BITUMINOUS CONCRETE PAVEMENT

NOTES:

1. MATCH EXISTING BASE COURSE AND TOP COURSE DEPTH.
2. BITUMINOUS CONCRETE CLASS 1 MAY BE SUBSTITUTED FOR BITUMINOUS CONCRETE CLASS 4.

GENERAL NOTES:

1. WHERE AN EXISTING CONCRETE SIDEWALK SLAB IS DAMAGED OR CUT DURING CONDUIT INSTALLATION, THE ENTIRE SECTION SHALL BE REPLACED. ALL CONCRETE SIDEWALK REPLACED DUE TO CONDUIT INSTALLATION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "CONCRETE SIDEWALK".
2. TOP OF CONDUIT TO BE A MINIMUM OF 24" (600) BELOW SURFACE.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
--- RMC (RIGID METAL CONDUIT)

REV. DATE	REVISION DESCRIPTION

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: 10/16/2009

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1001_01

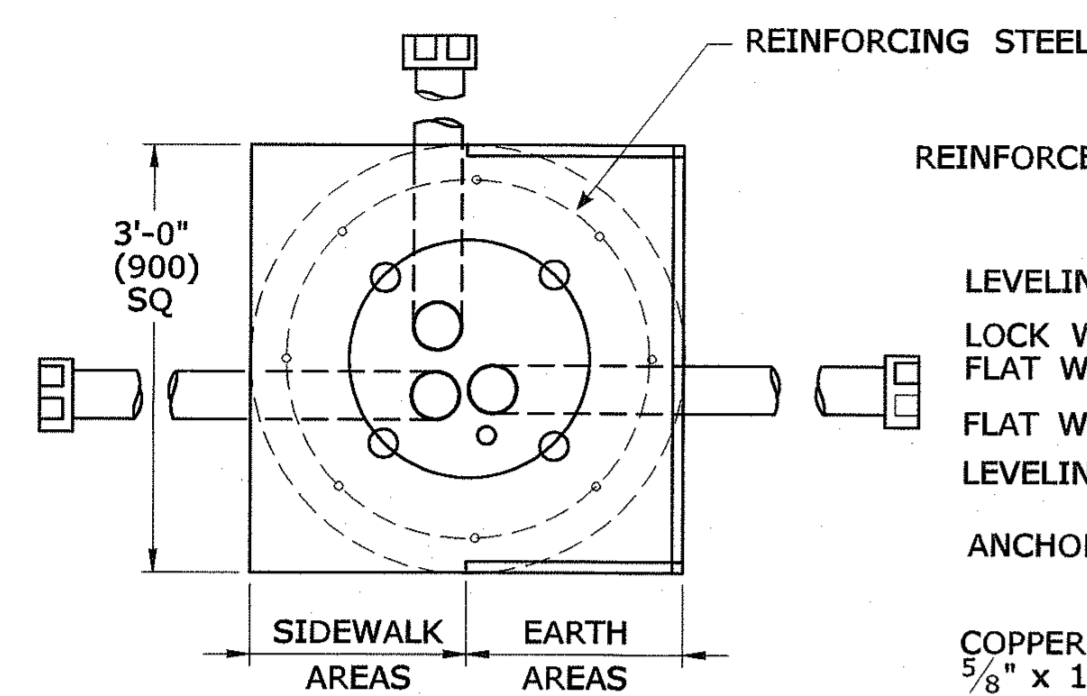
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NAME/DATE/TIME: Tracy L. Fogarty 2009.10.16 10:50:30 -04'00'

APPROVED BY: John F. Carey
NAME/DATE/TIME: John F. Carey 2009.10.19 13:35:23 -04'00'

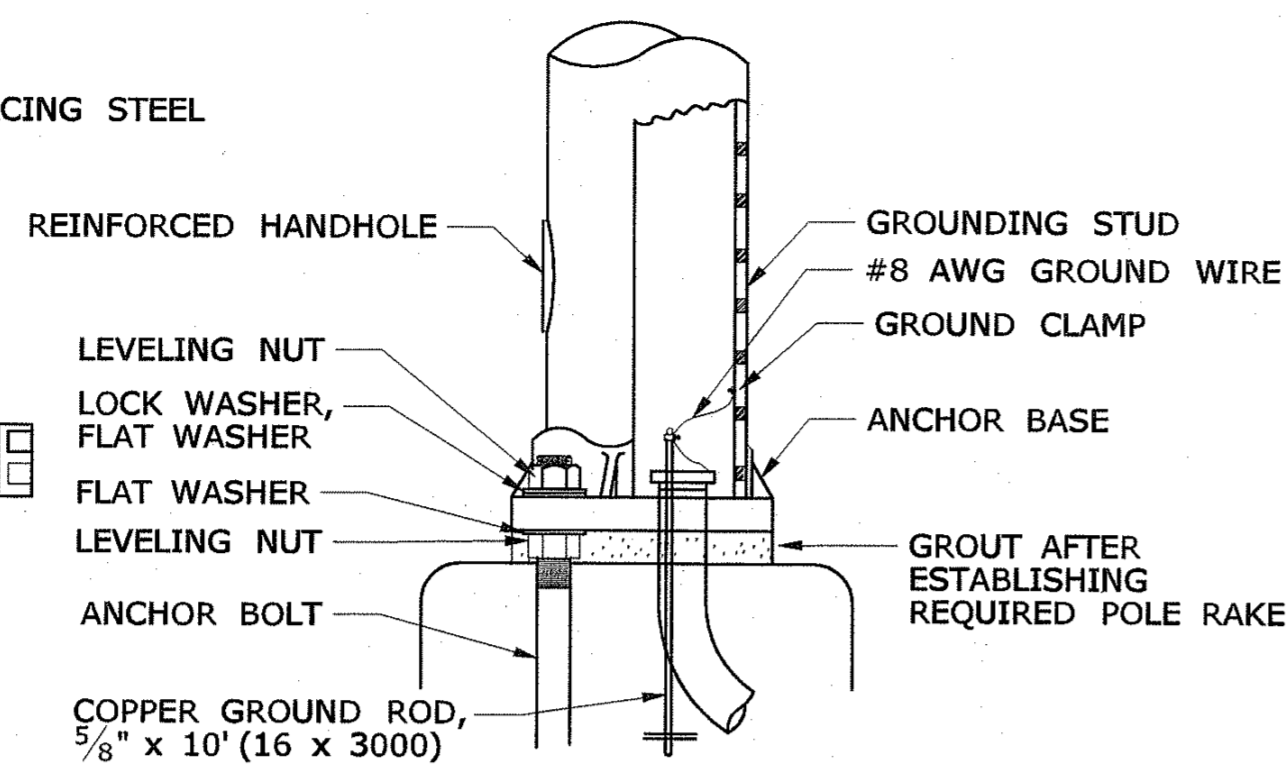
CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE: TRENCHING & BACKFILLING, ELECTRICAL CONDUIT

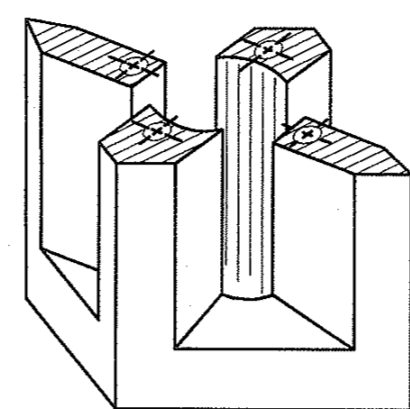
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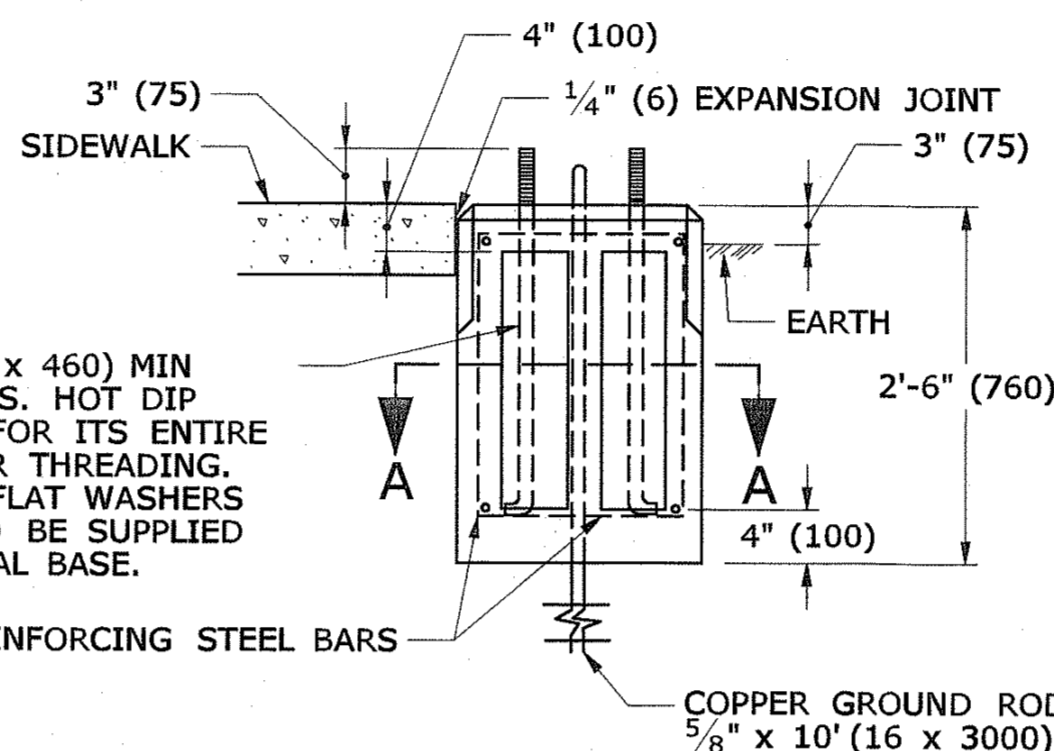
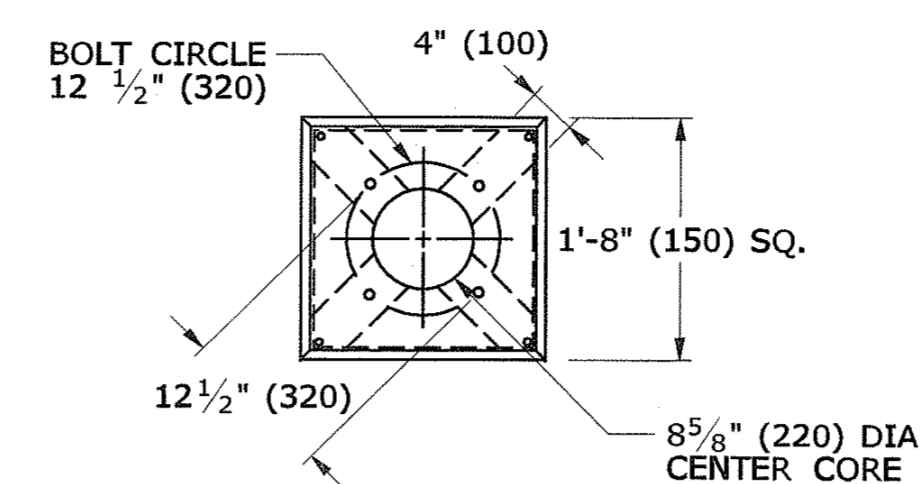
PLAN VIEW



STEEL POLE INSTALLATION DETAIL



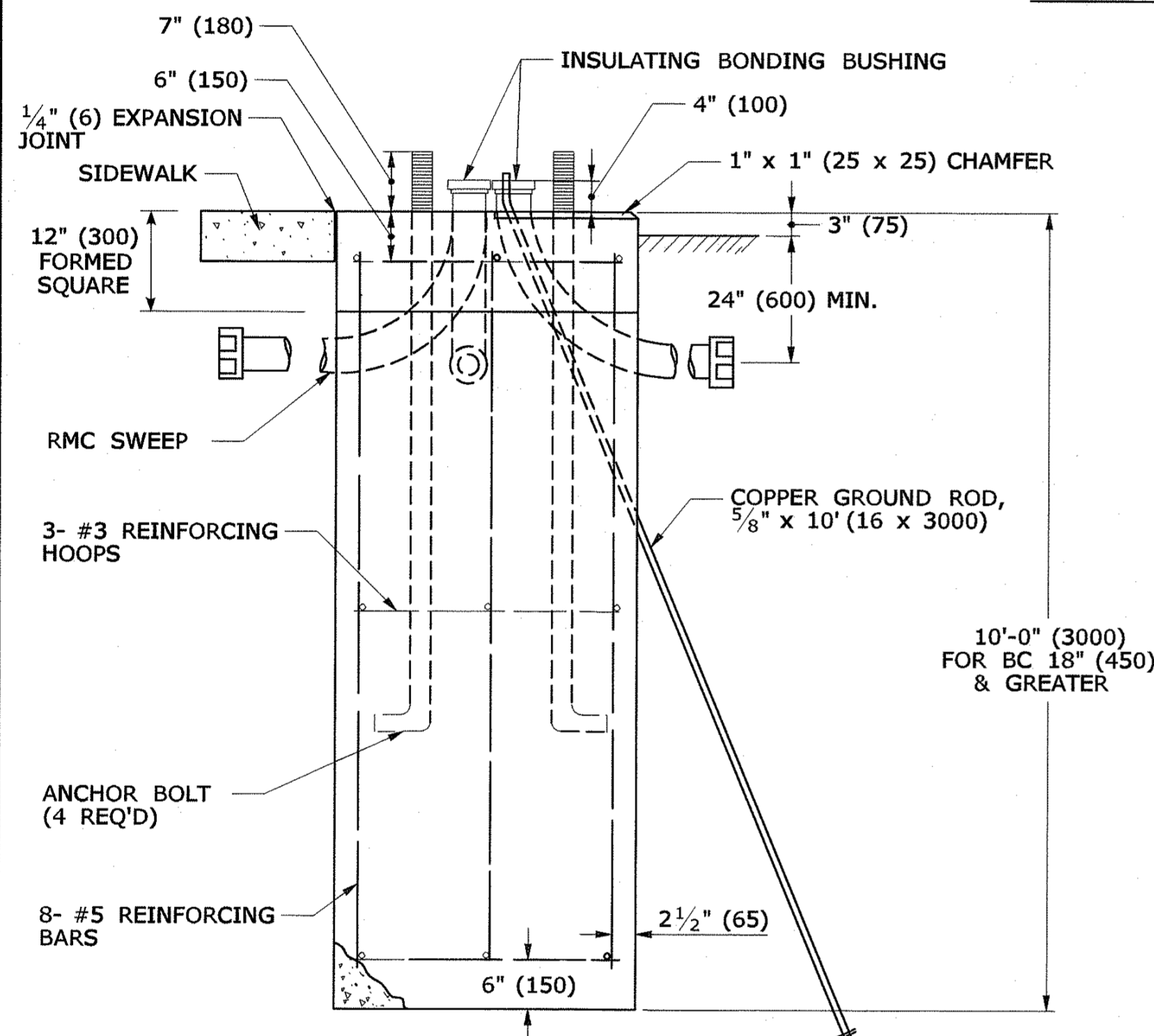
PICTORIAL SECTION A-A



TRAFFIC CONTROL FOUNDATION PEDESTAL - TYP I - PRECAST

NOTES:

PLACE NO. 6 CRUSHED STONE IN CENTER OPENING AFTER CONDUITS AND GROUND ROD HAVE BEEN INSTALLED.



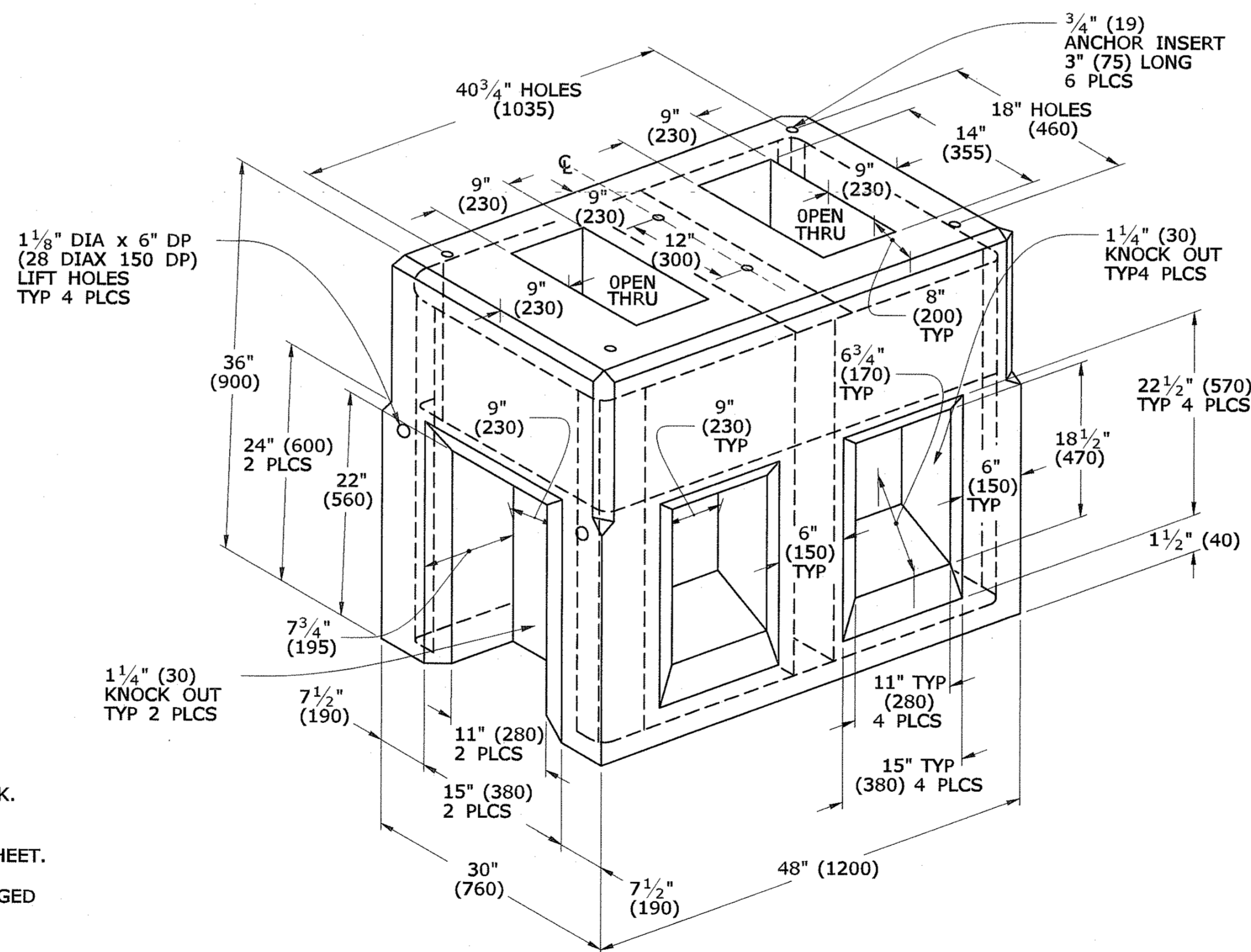
ELEVATION VIEW

TRAFFIC CONTROL FOUNDATION SPAN POLE

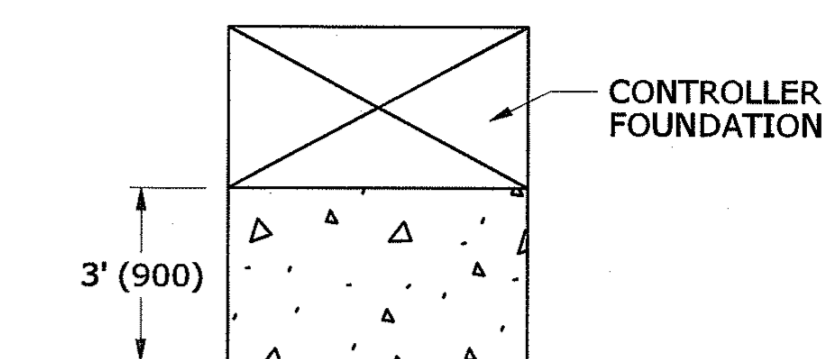
NOTES:

INSTALL A MINIMUM OF TWO RMC SWEEPS IN ALL FOUNDATIONS.
 INSTALL A MINIMUM OF ONE SPARE 2" (50) RMC SWEEP IN ALL FOUNDATIONS.
 EXTEND SPARE SWEEP MINIMUM 24" (600) FROM SIDE.
 FORM EXPOSED EDGES WITH 1" x 1" (25 x 25) CHAMFER.
 WHEN AUGERED, AND POURED IN PLACE, OR CYLINDRICAL FORM IS USED,
 FORM ONLY THE TOP OF FOUNDATION TO SQUARE.
 MATCH TOP OF SPAN POLE AND PEDESTAL FOUNDATION WITH CROSS SLOPE OF ADJACENT SIDEWALK.
 FINISH EXPOSED AREAS WITH WOOD FLOAT AND BRUSH.
 BOND ALL POLES, PEDESTALS AND CONDUITS TO GROUND ROD.
 ORIENT SPAN POLE ANCHOR BOLTS WITH RESPECT TO LOAD AS SHOWN ON TYPICAL SPAN POLE SHEET.
 ANCHOR BOLT LENGTH INCLUDES BEND.
 WHERE AN EXISTING CONCRETE SIDEWALK SLAB ABUTTING A FOUNDATION OR HANDHOLE IS DAMAGED
 OR CUT DURING INSTALLATION, REPLACE THE ENTIRE SECTION.
 PROVIDE A CLEAR PATH NOT LESS THAN 3' (0.9 m) IN SIDEWALK AREAS FOR HANDICAP ACCESS.
 WHEN REQUESTED BY THE ENGINEER, MEASURE RESISTANCE-TO-GROUND OF GROUND ROD AT
 TRAFFIC CONTROL FOUNDATIONS. SEE FALL-OF-POTENTIAL METHOD. IF LESS THAN 10 ohms,
 INSTALL SUPPLEMENTAL ELECTRODES AS REQUIRED. NEC ARTICLE 250.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
 [Symbol] PROPOSED CONTROLLER
 [Symbol] EXISTING CONTROLLER
 [Symbol] PROPOSED STEEL SPAN POLE
 [Symbol] EXISTING STEEL SPAN POLE

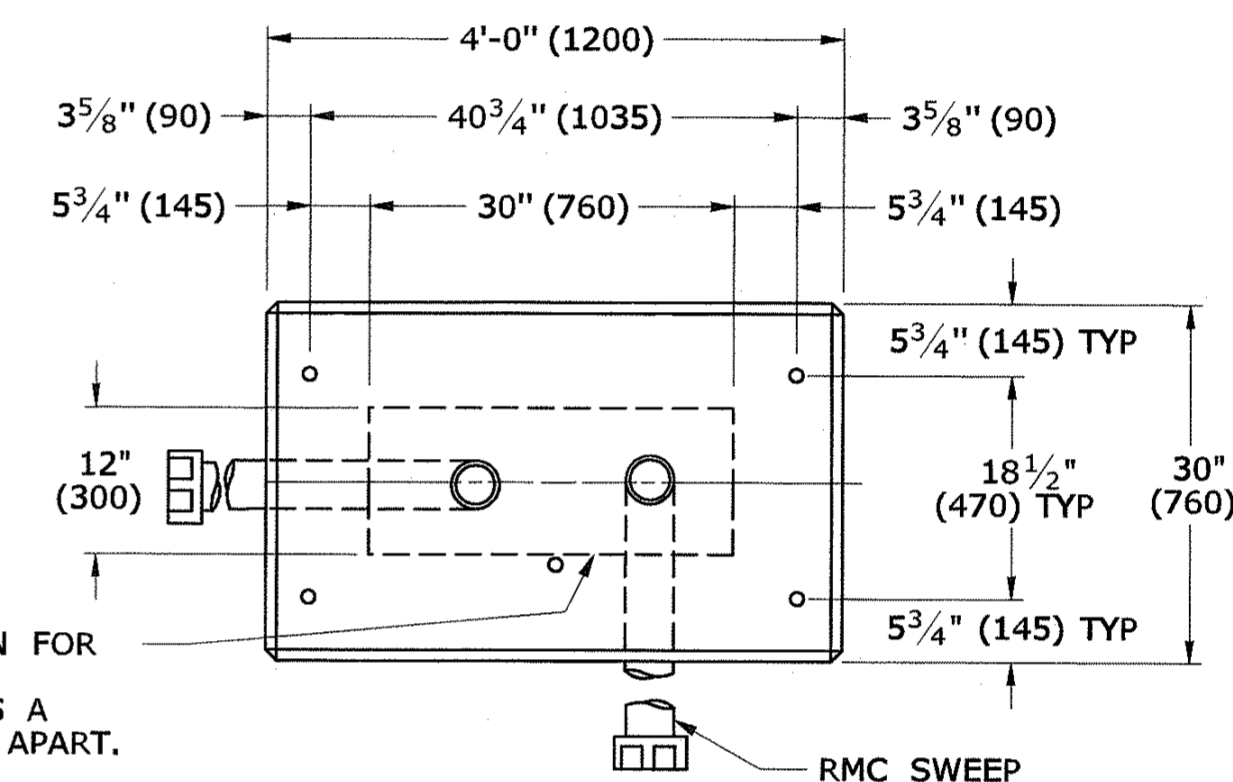


TRAFFIC CONTROL FOUNDATION CONTROLLER - TYPE IV - PRECAST

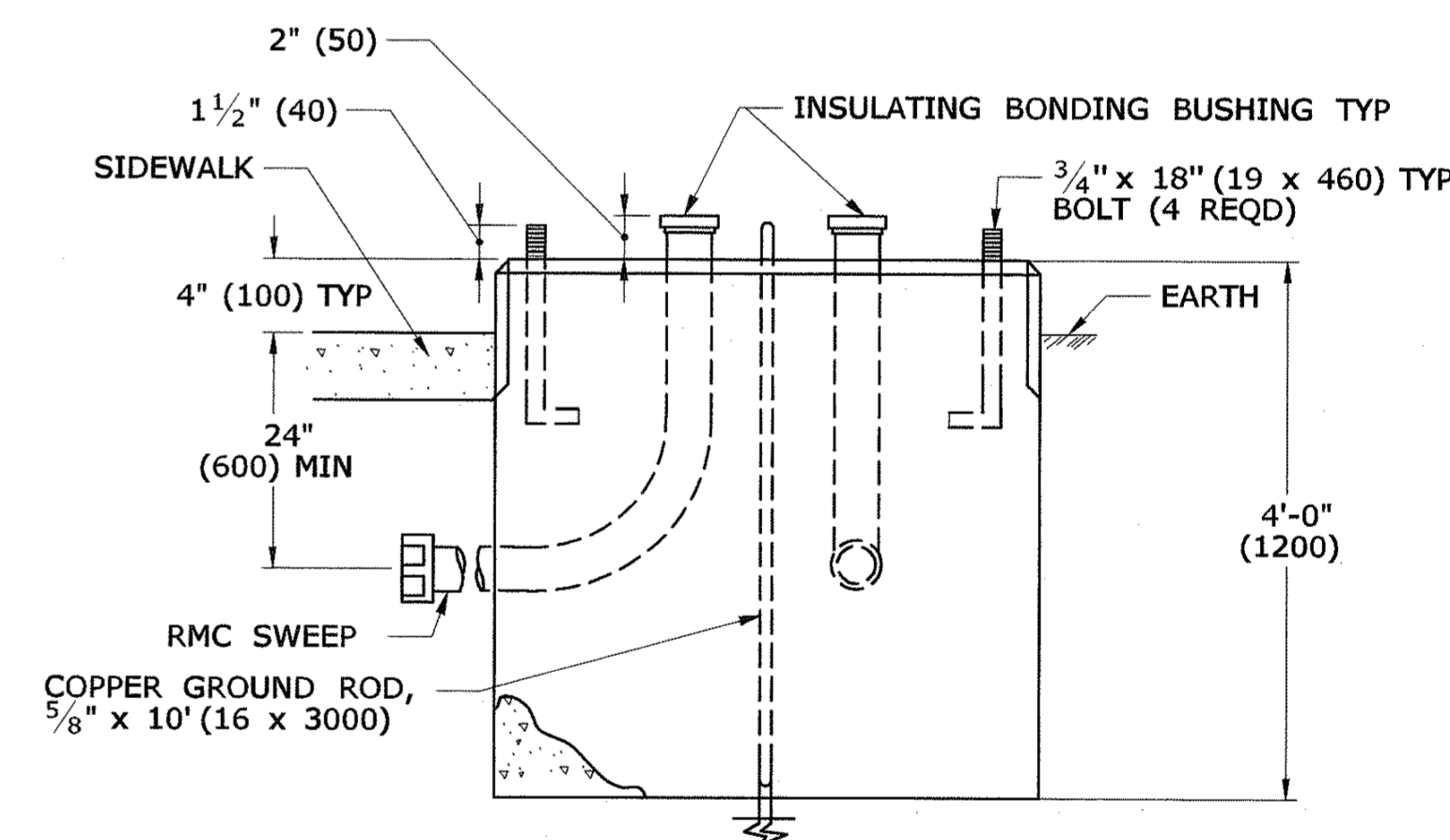


INSTALL PRECAST OR CAST IN PLACE CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION. MINIMUM 3" (75) THICK SLAB. MINIMUM 6" (150) GRAVEL OR MISC AGG BASE, COMPACTED. PITCH SIDEWALK 1/4" PER FOOT (20 PER METER) AWAY FROM THE CONTROLLER FOUNDATION.

TYPICAL CONCRETE SIDEWALK AT CONTROLLER FOUNDATION



AREA OF LIMITATION FOR CONDUIT SWEEPS. SEPARATE CONDUITS A MINIMUM OF 2" (50) APART.



TRAFFIC CONTROL FOUNDATION CONTROLLER - TYPE IV - CAST IN PLACE

NOTES:

INSTALL FOUNDATION ON 6" (150) OF COMPACTED GRAVEL IN ACCORDANCE WITH SECTION 2.14. LEVEL FOUNDATION WITH A PROJECTION OF 4" (100) ABOVE FINISHED GRADE. INSTALL COPPER GROUND ROD: 5/8" x 10 (16 x 3000). 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.3.01-12. CONCRETE: CLASS "A" CONFORMIN TO ARTICLE M.03.01. #4 REBAR 2" (50) MIN COVER AROUND ALL OPENINGS, 3-#4 REBARS IN EACH CORNER. CONDUITS SHALL NOT PROJECT MORE THAN 2" (50) ABOVE FOUNDATION.

REV.	DATE	REVISION DESCRIPTION

NOT TO SCALE

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

Plotted Date: 10/16/2009

Filename: CTDOT-TRAFFIC.STD.dgn Model: TR-1002_01

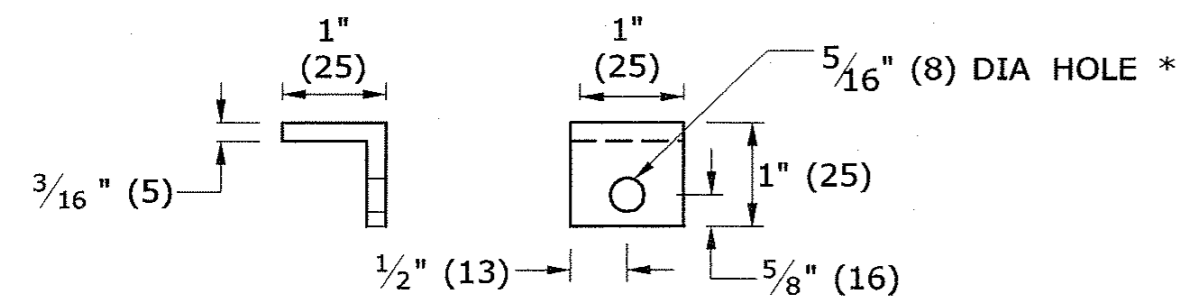
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 Tracy L. Fogarty Tracy L. Fogarty 2009.10.16 14:15:50 -04'00'

APPROVED BY: NAME/DATE/TIME:
 John F. Carey John F. Carey 2009.10.16 15:03:03 -04'00'

CTDOT
 STANDARD SHEET
 OFFICE OF ENGINEERING

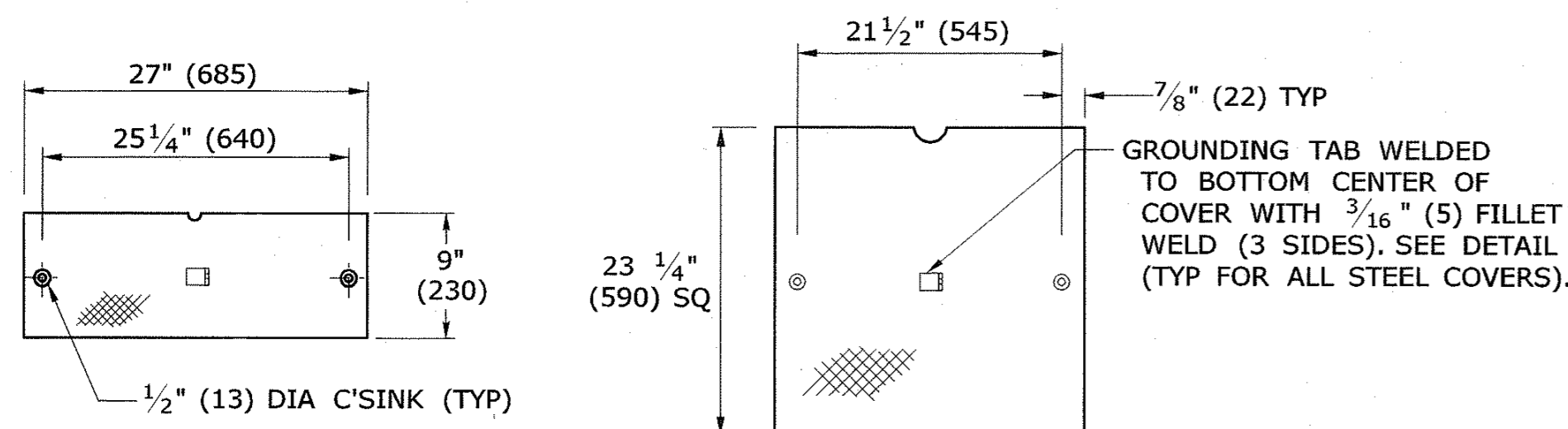
STANDARD SHEET TITLE:
TRAFFIC CONTROL FOUNDATIONS

STANDARD SHEET NO.:
TR-1002_01

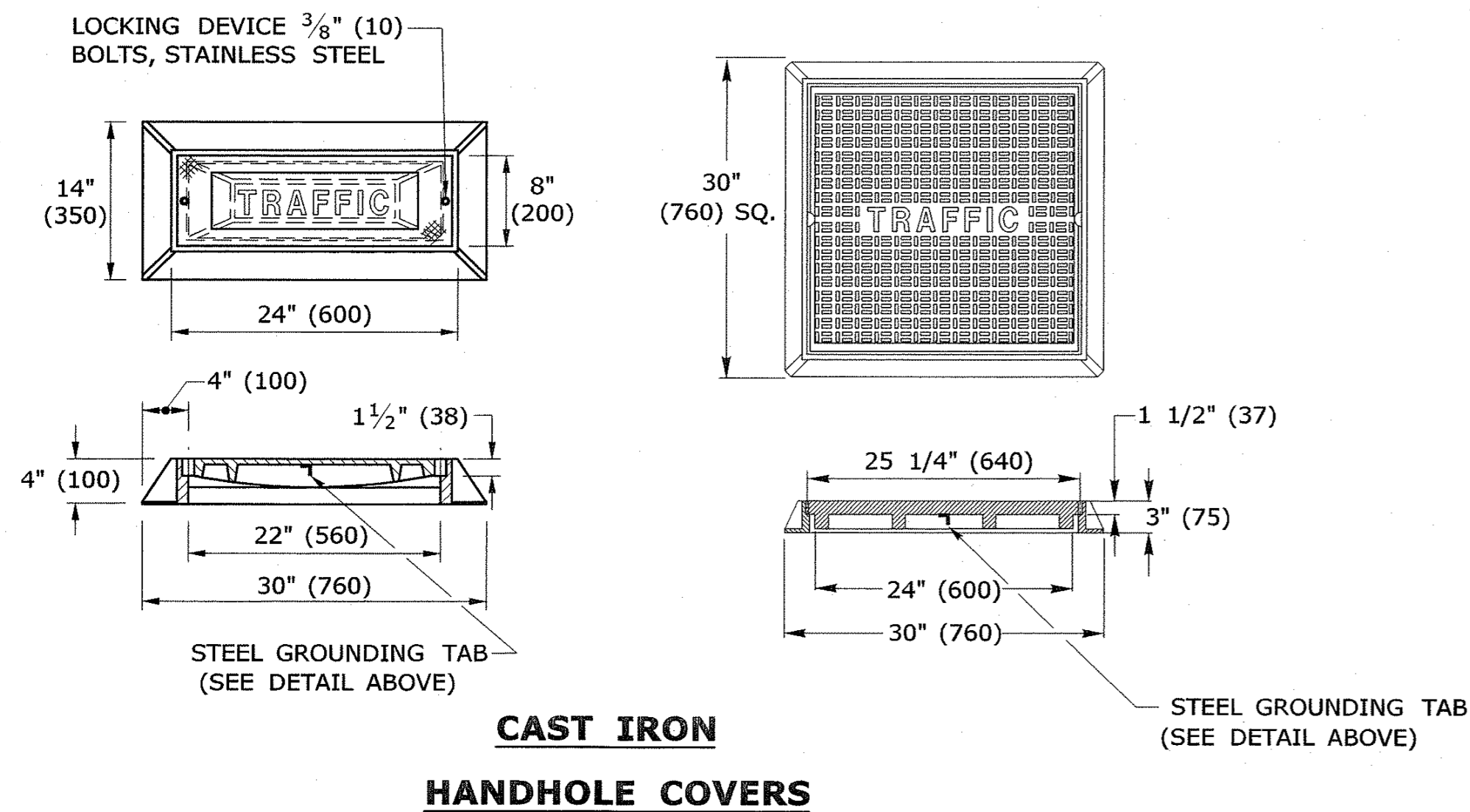


* ATTACH 6' (2 m) LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG, 1/4"-20 x 3/4" (M6 x 20) LG SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO CONDUIT BONDING BUSHING IN HANDHOLE.

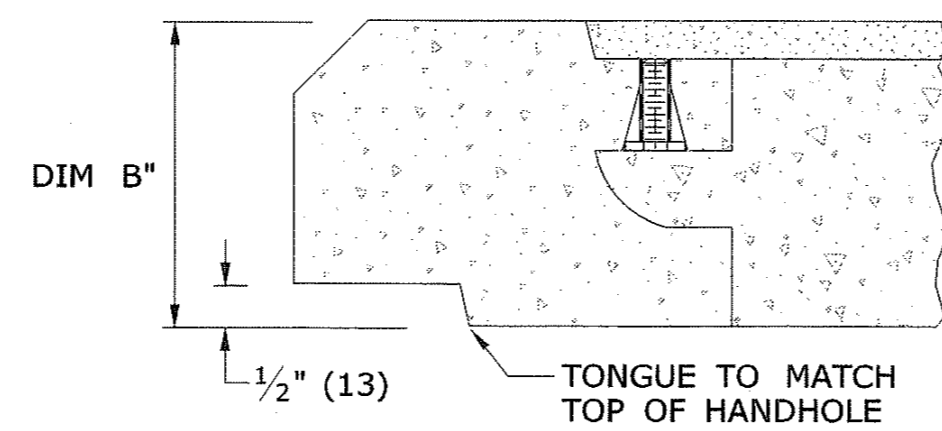
STEEL GROUNDING TAB



NON SKID FLOOR PLATE GALVANIZED STEEL, 3/8" (10)

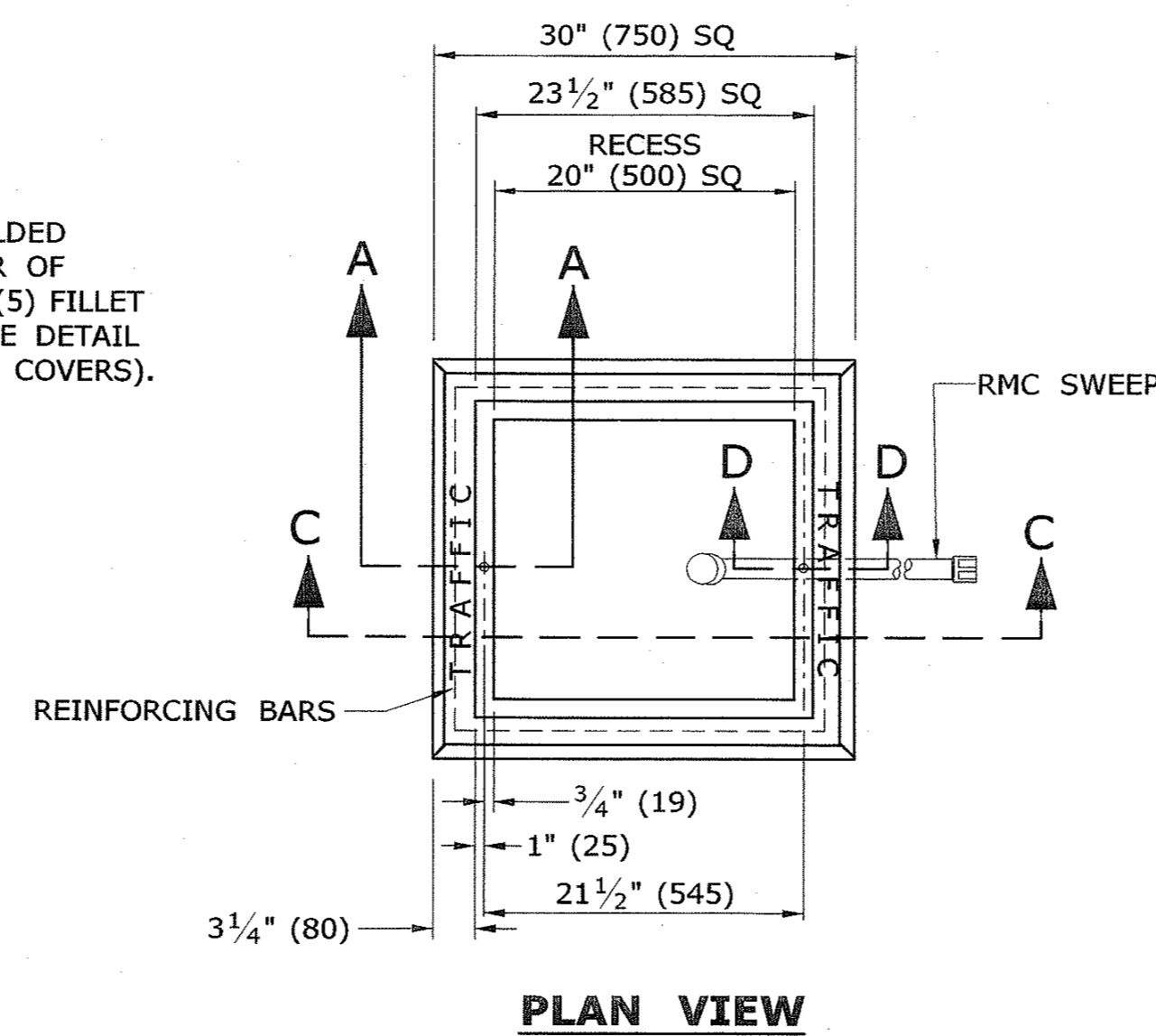


CAST IRON HANDHOLE COVERS

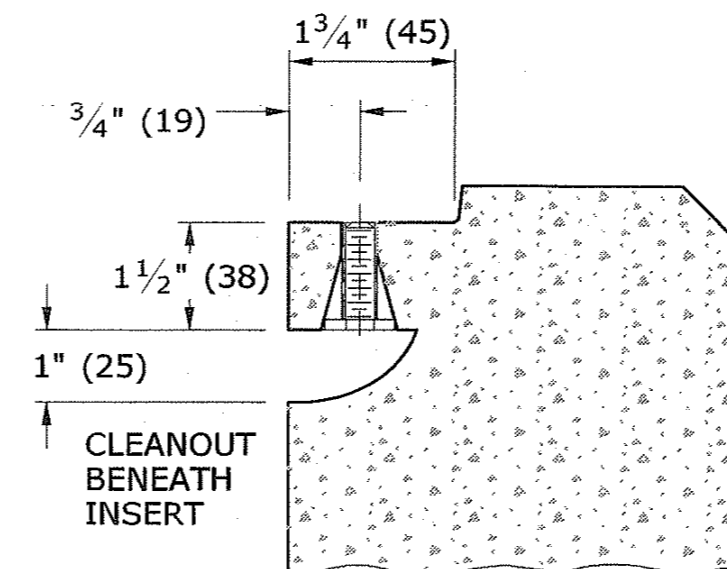


SECTION A-A HANDHOLE EXTENSIONS
12 - #8 REINFORCING BARS REQ'D

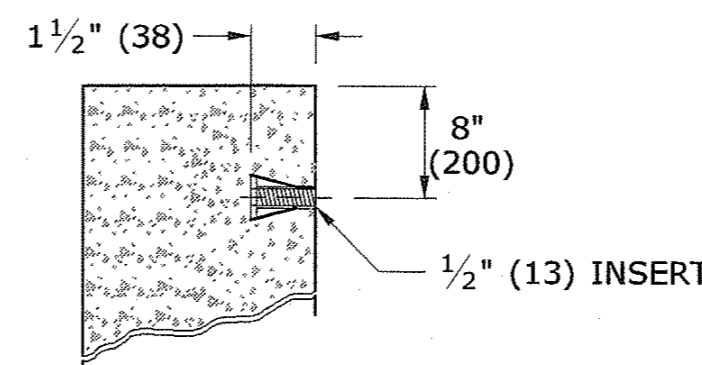
DIM. "B" CHART	
ENGLISH HEIGHT	METRIC HEIGHT
2"	50
4" SHOWN	100
6"	150
12"	300



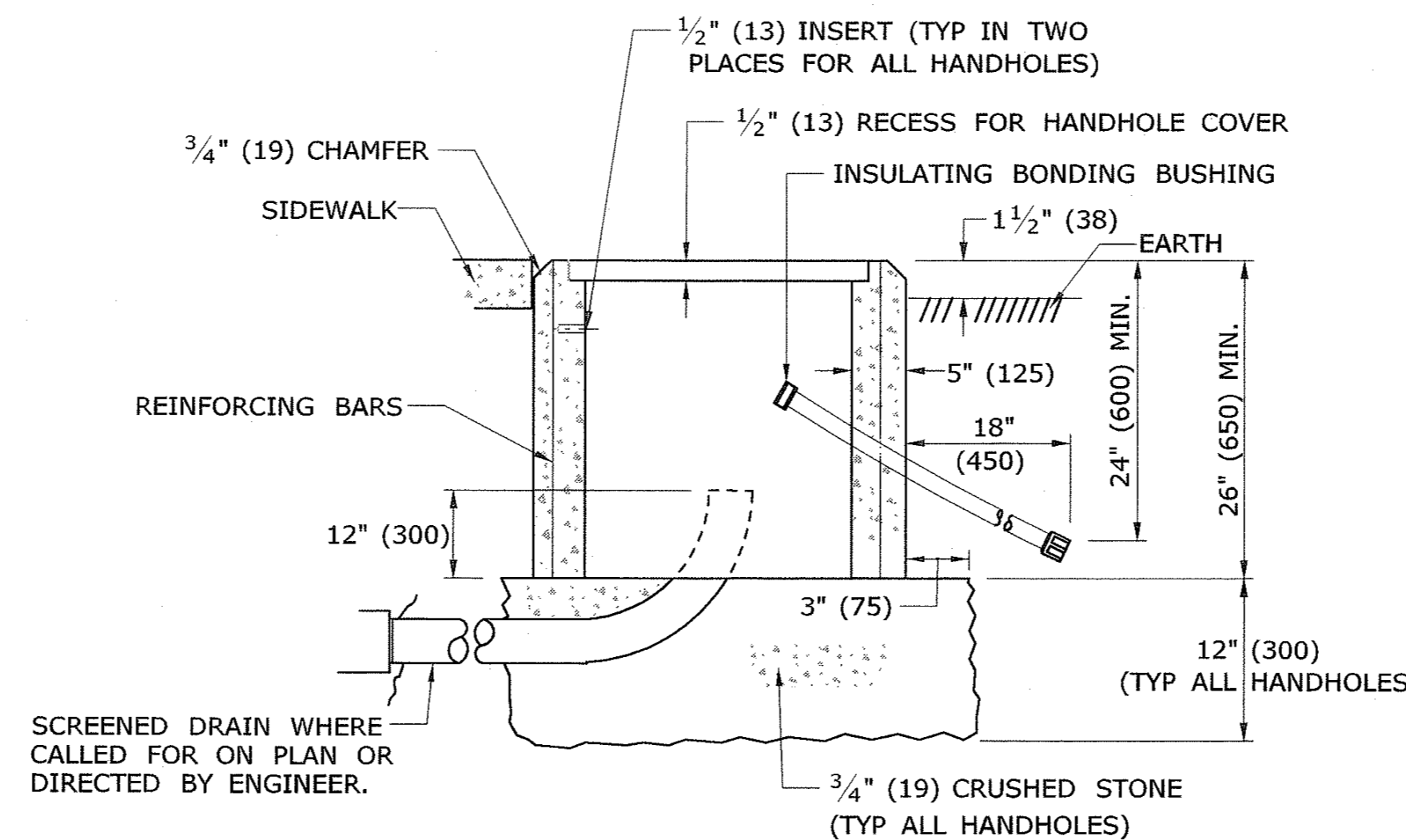
PLAN VIEW



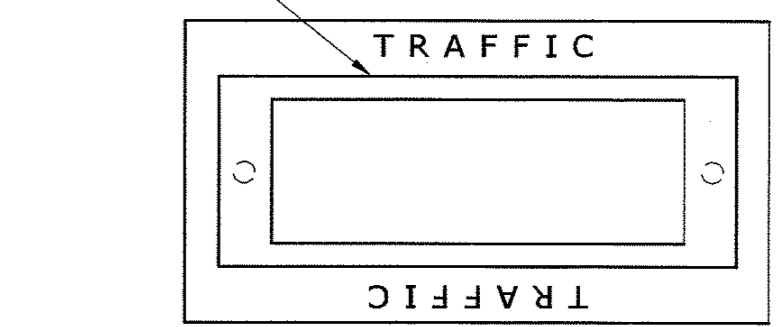
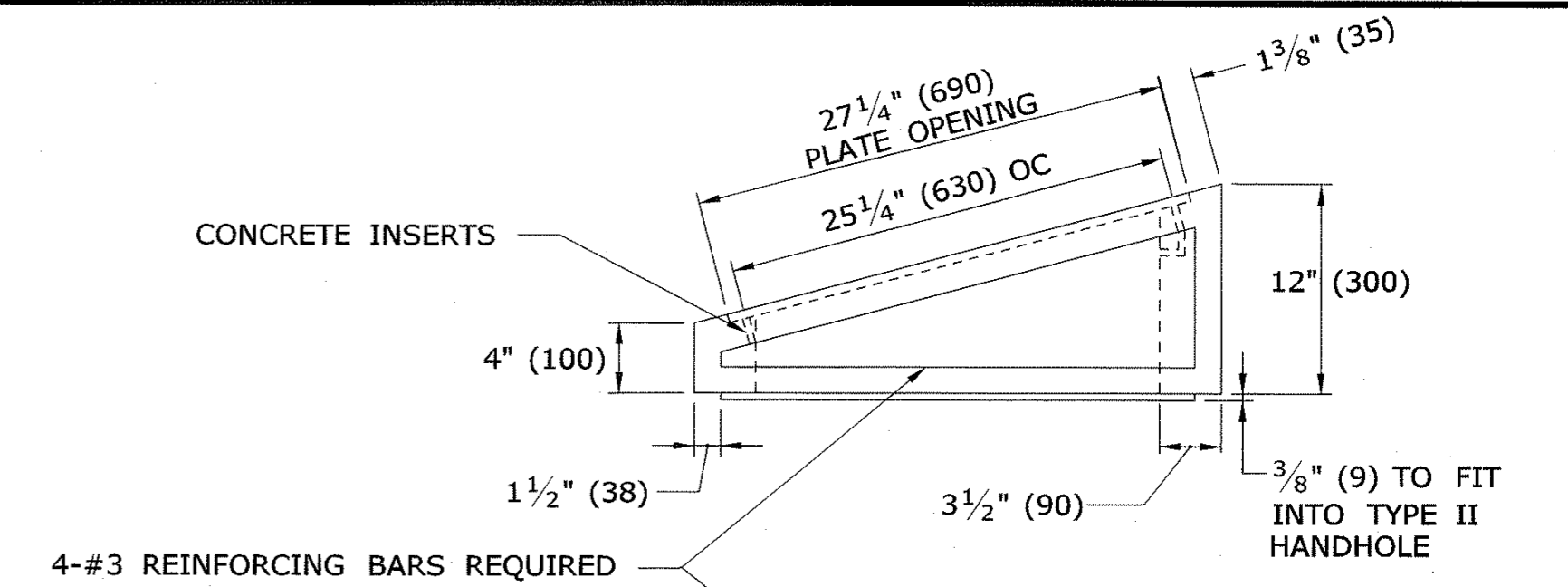
SECTION D-D



INSERT DETAIL

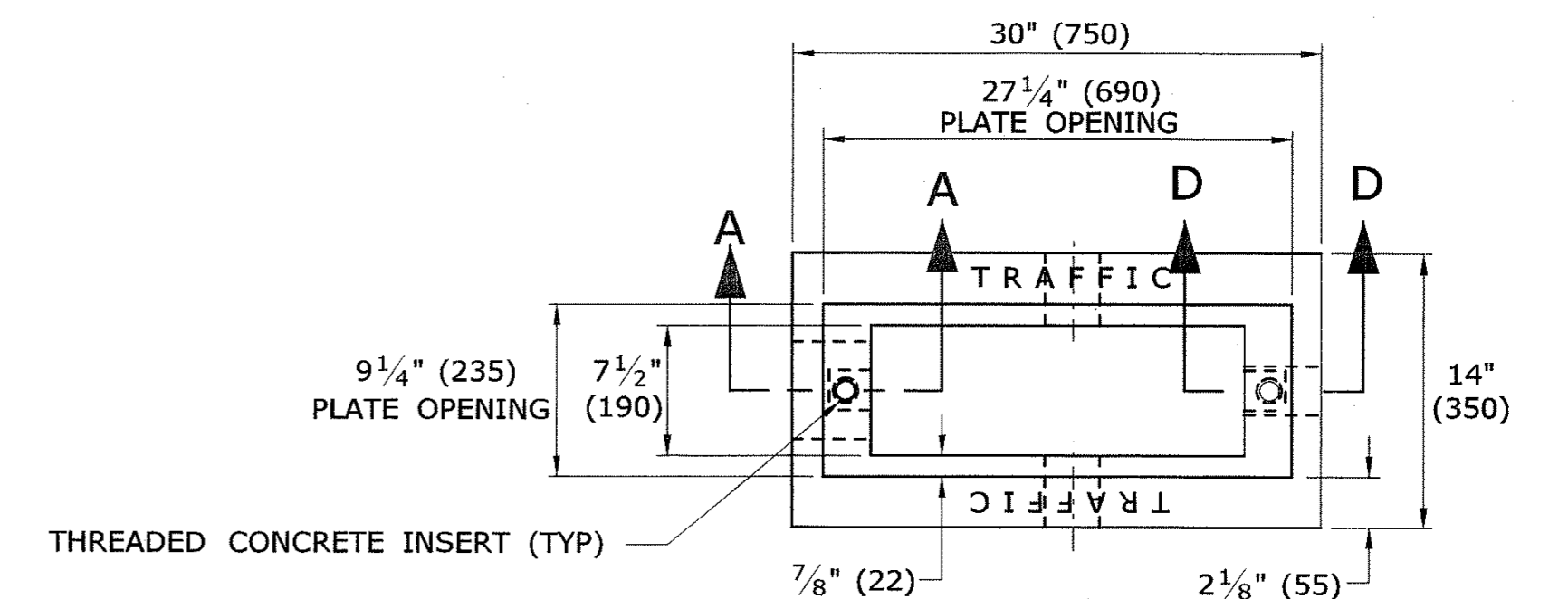


SECTION C-C CONCRETE HANDHOLE CLASS "A" CONCRETE



TOP VIEW DIMENSIONS AND SECTION VIEWS SAME AS CONCRETE HANDHOLE.

CONCRETE HANDHOLE TYPE II BANK ADAPTER



CONCRETE HANDHOLE TYPE II CLASS "C" CONCRETE

NOTES:

- BLOCK UNUSED OPENINGS OF HANDHOLE ON THE OUTSIDE WITH PRESSURE TREATED PLYWOOD.
- GROUT AROUND ALL CONDUITS.
- USE 1 1/2 inch x 3/8 inch (38 x 10) CONCRETE INSERT, STANDARD THREAD, STAINLESS STEEL, FLAT HEAD BOLT, RECESSED IN PLATE COVER. INSERTS TO HAVE CLEANOUTS.
- TYPE II HANDHOLE 30" (760) SIDE INSTALLED PARALLEL TO ROAD UNLESS OTHERWISE NOTED.
- CAST THE WORD "TRAFFIC" INTO TOP EDGE OF HANDHOLE, 1 1/2" (38) LETTERS.
- WHERE AN EXISTING CONCRETE SIDEWALK SLAB ABUTTING A HANDHOLE IS DAMAGED OR CUT DURING INSTALLATION, THE ENTIRE SECTION SHALL BE REPLACED.
- 12-#3 REINFORCING BARS REQUIRED FOR ALL HANDHOLES. (8 HORIZONTAL, 4 VERTICAL)

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
 □ PROPOSED HANDHOLE
 ■ EXISTING HANDHOLE

REV.	DATE	REVISION DESCRIPTION

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Plotted Date: 9/11/2009

SUBMITTED BY: Tracy L. Fogarty
 NAME/DATE/TIME: Tracy L. Fogarty 2009.09.15 08:06:39 -04'00'

APPROVED BY: John F. Carey
 NAME/DATE/TIME: John F. Carey 2009.09.16 08:20:29 -04'00'

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

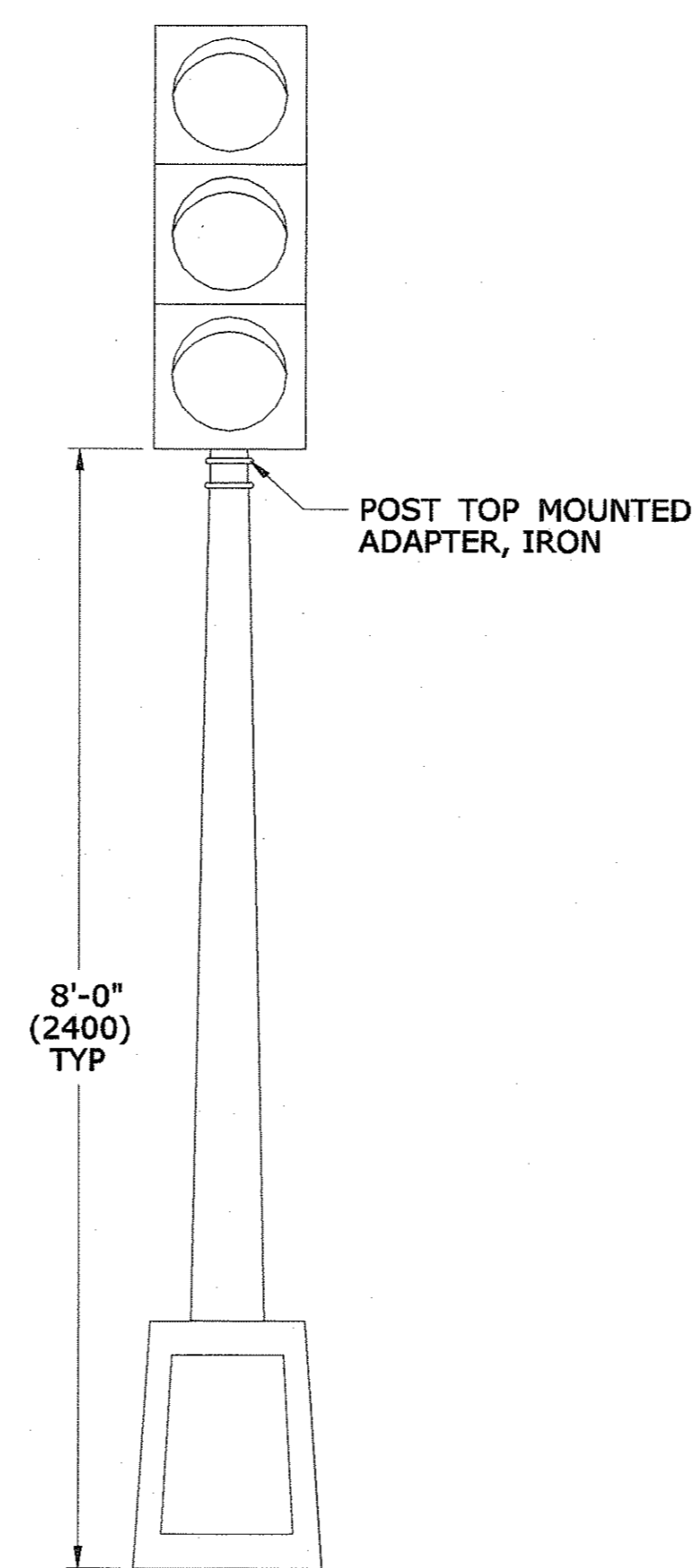
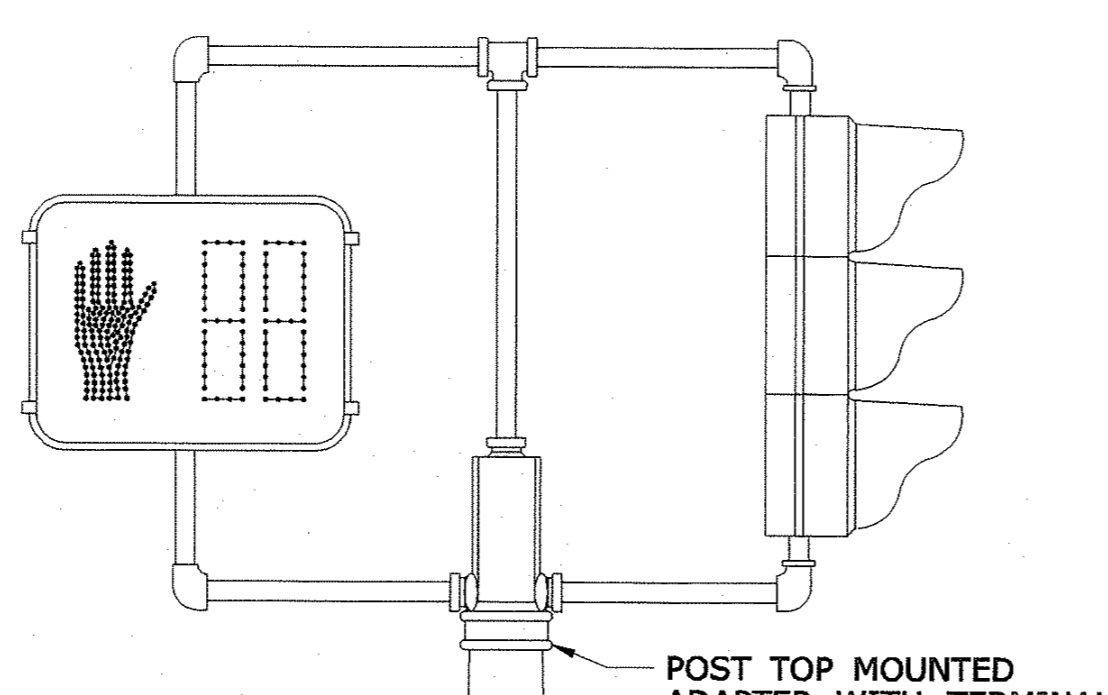
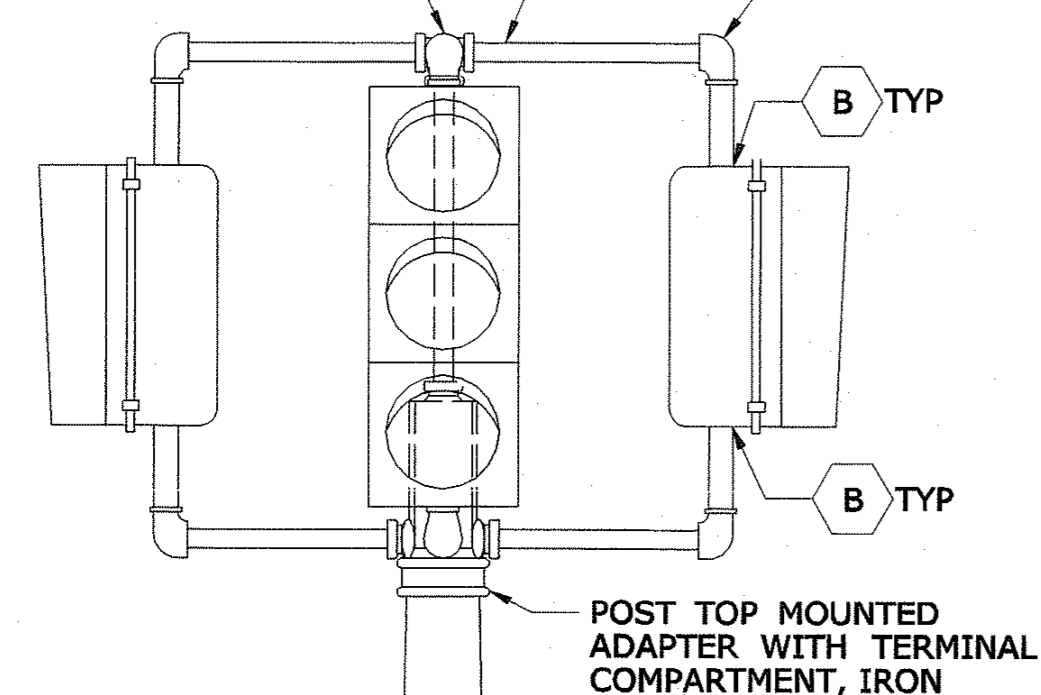
STANDARD SHEET TITLE:
CONCRETE HANDHOLE

STANDARD SHEET NO.:
TR-1010_01

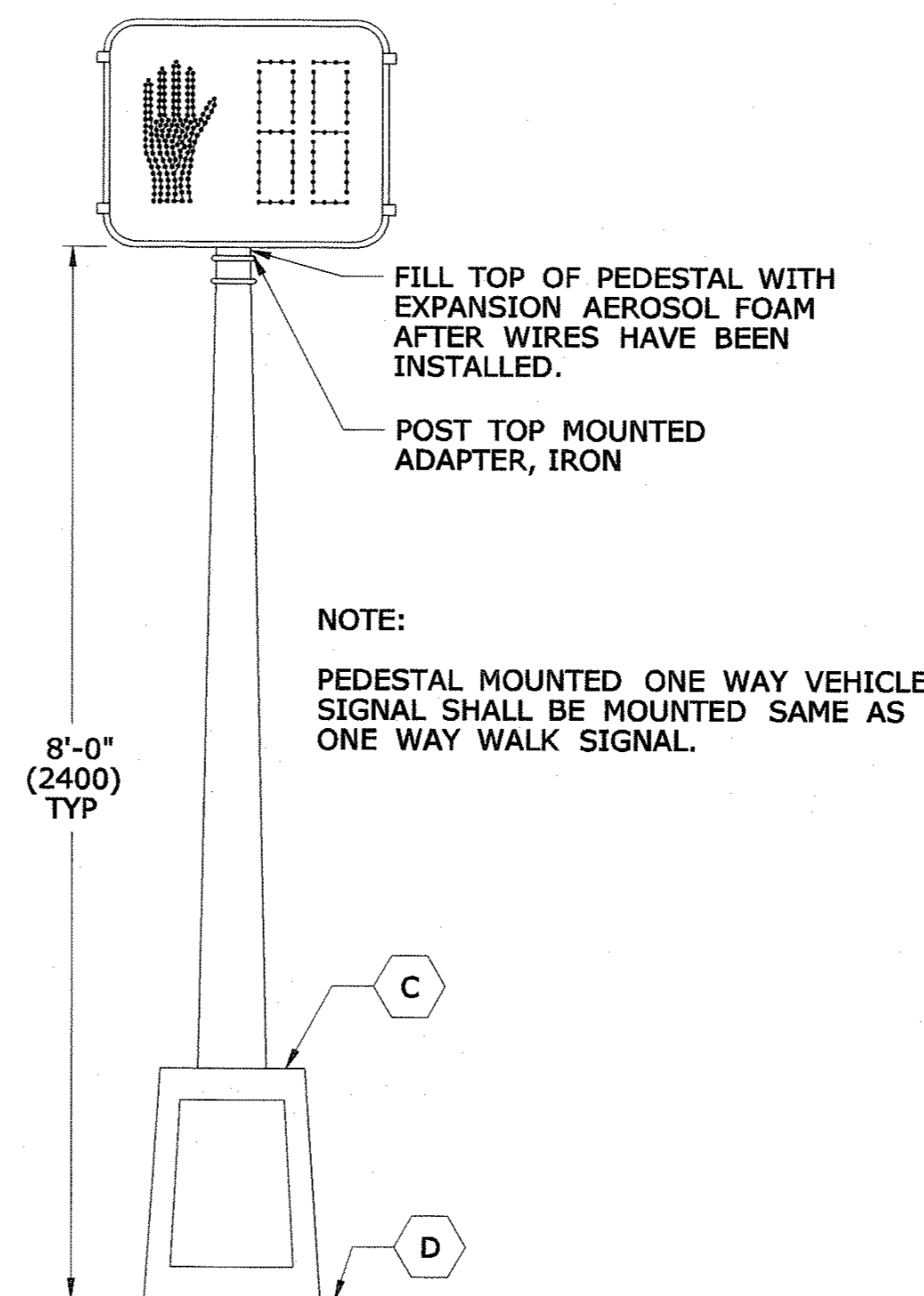
1 1/2" (38) SS SIDE
OUTLET TEE, IRON, TYP

1 1/2" (38) NIPPLE, STEEL, TYP

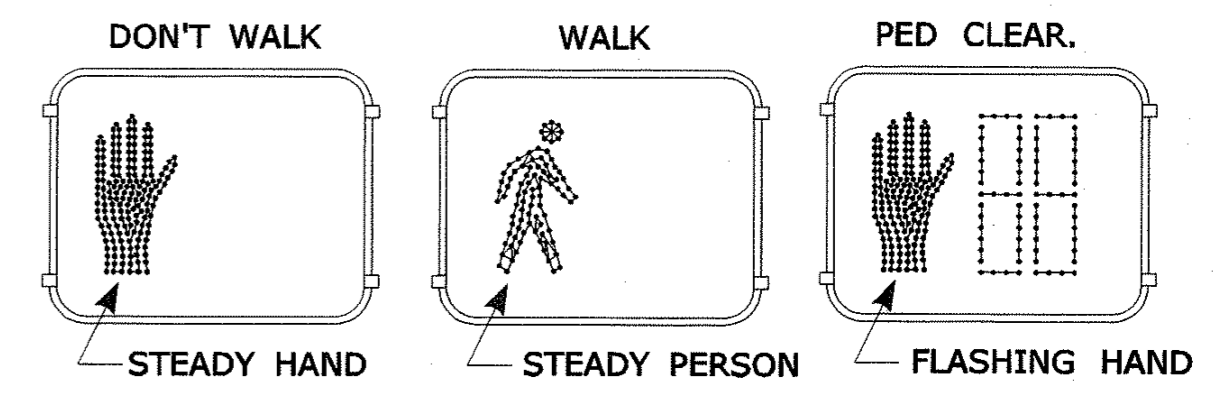
SERRATED ELL, IRON, TYP



**ONE WAY TRAFFIC SIGNAL
PEDESTAL MOUNTED**

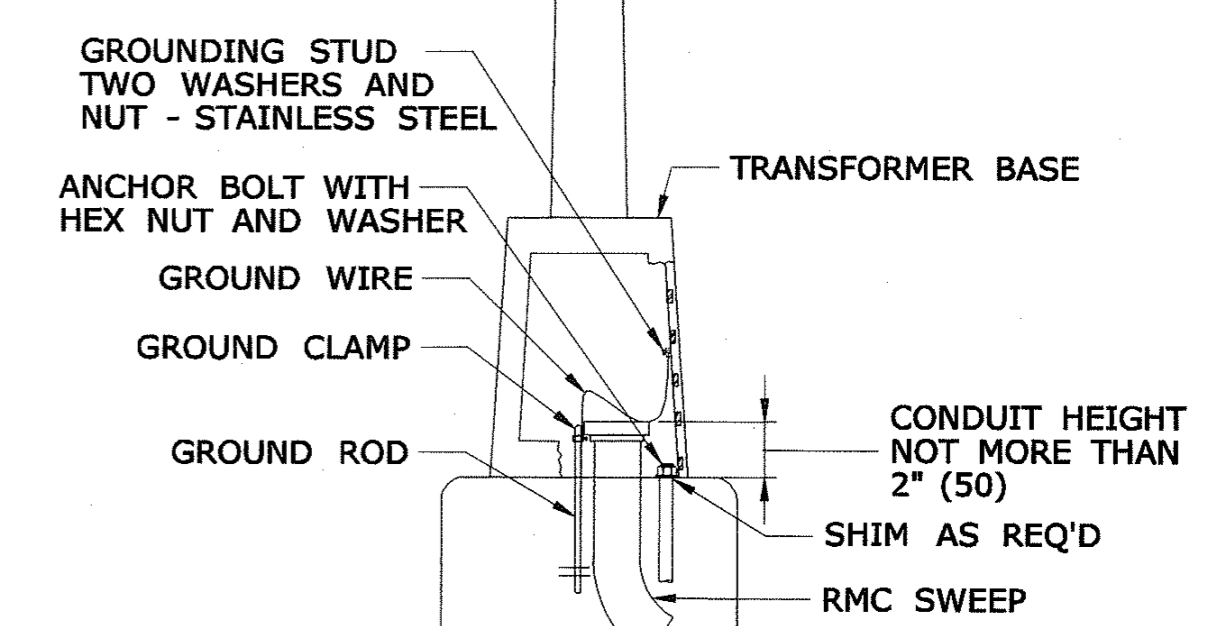
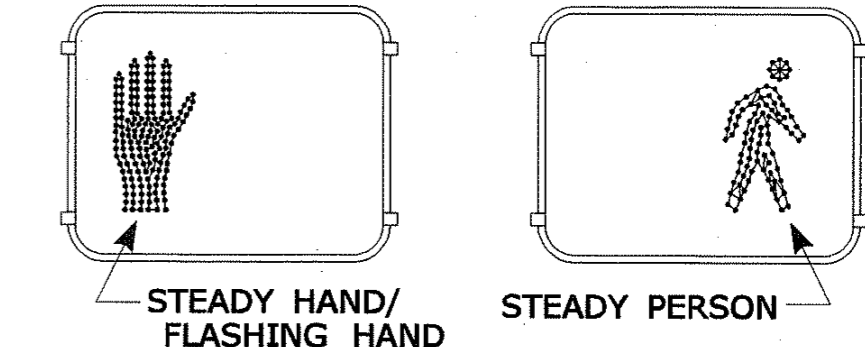


**ONE WAY WALK SIGNAL
PEDESTAL MOUNTED**

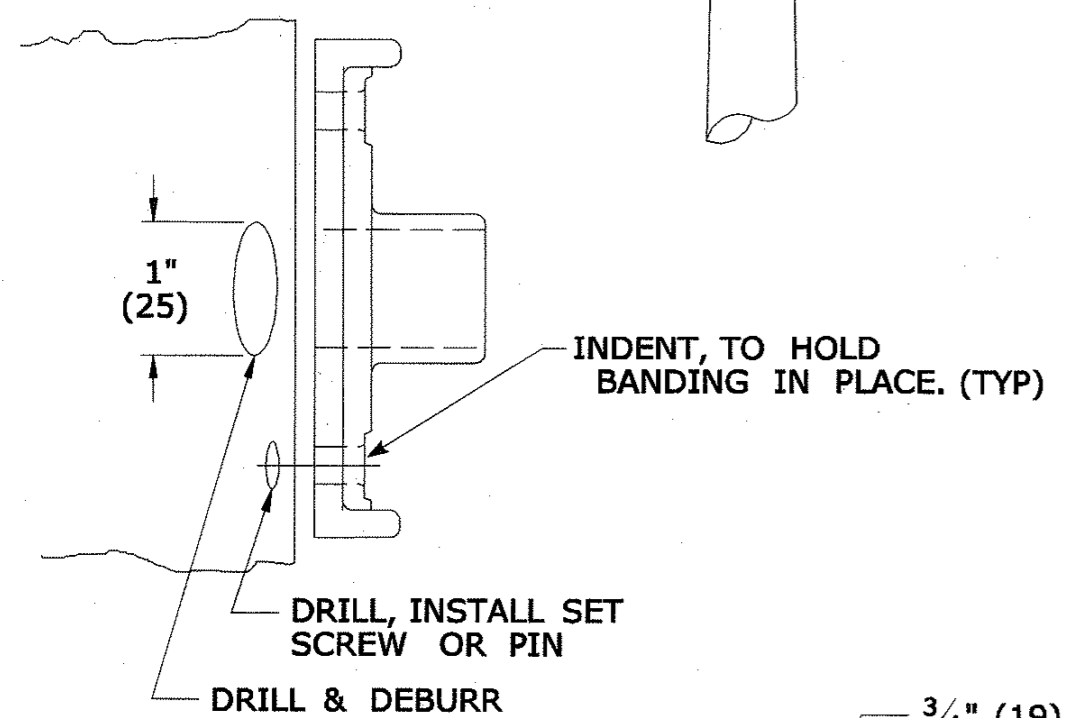


TYPICAL INDICATION WHEN LIT

NON-COUNTDOWN DISPLAY, ONLY WHEN SHOWN ON PLAN.
DON'T WALK/PED CLEAR.



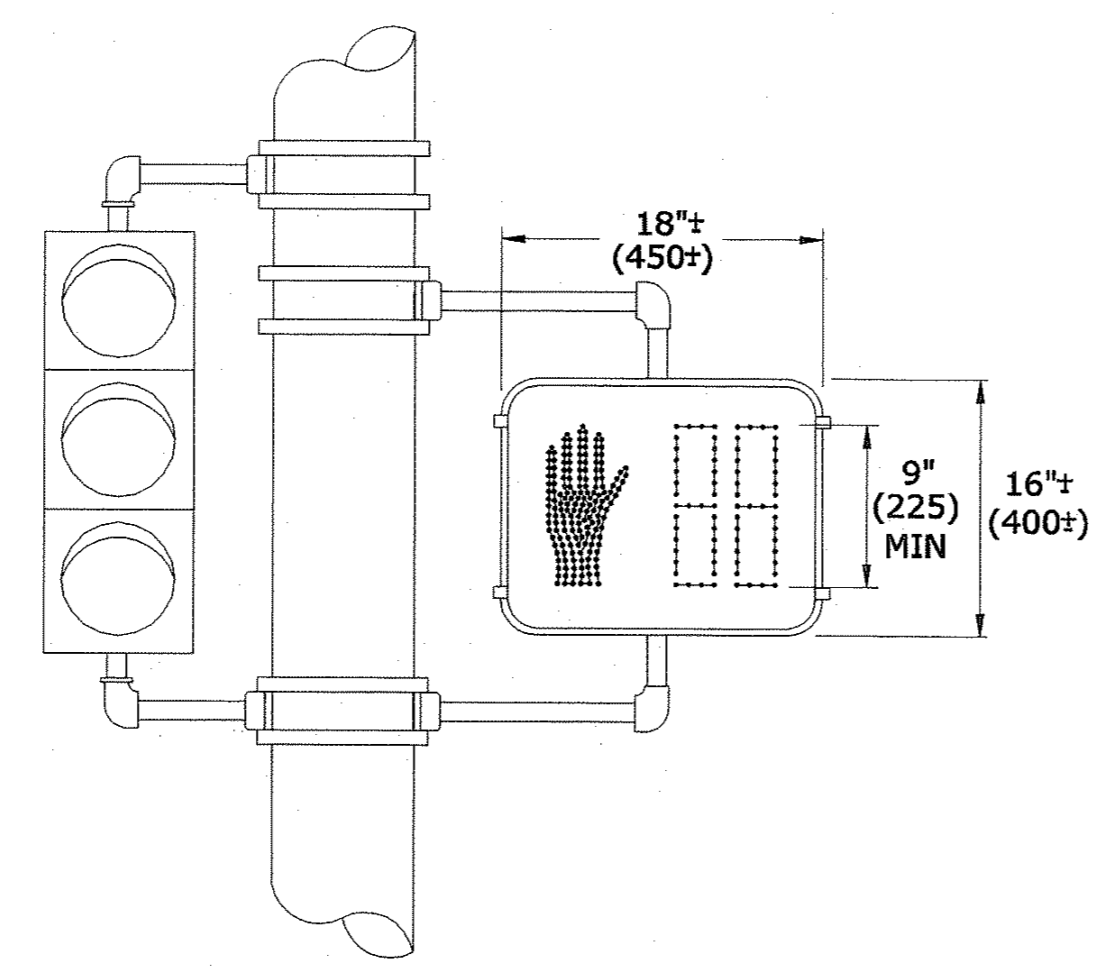
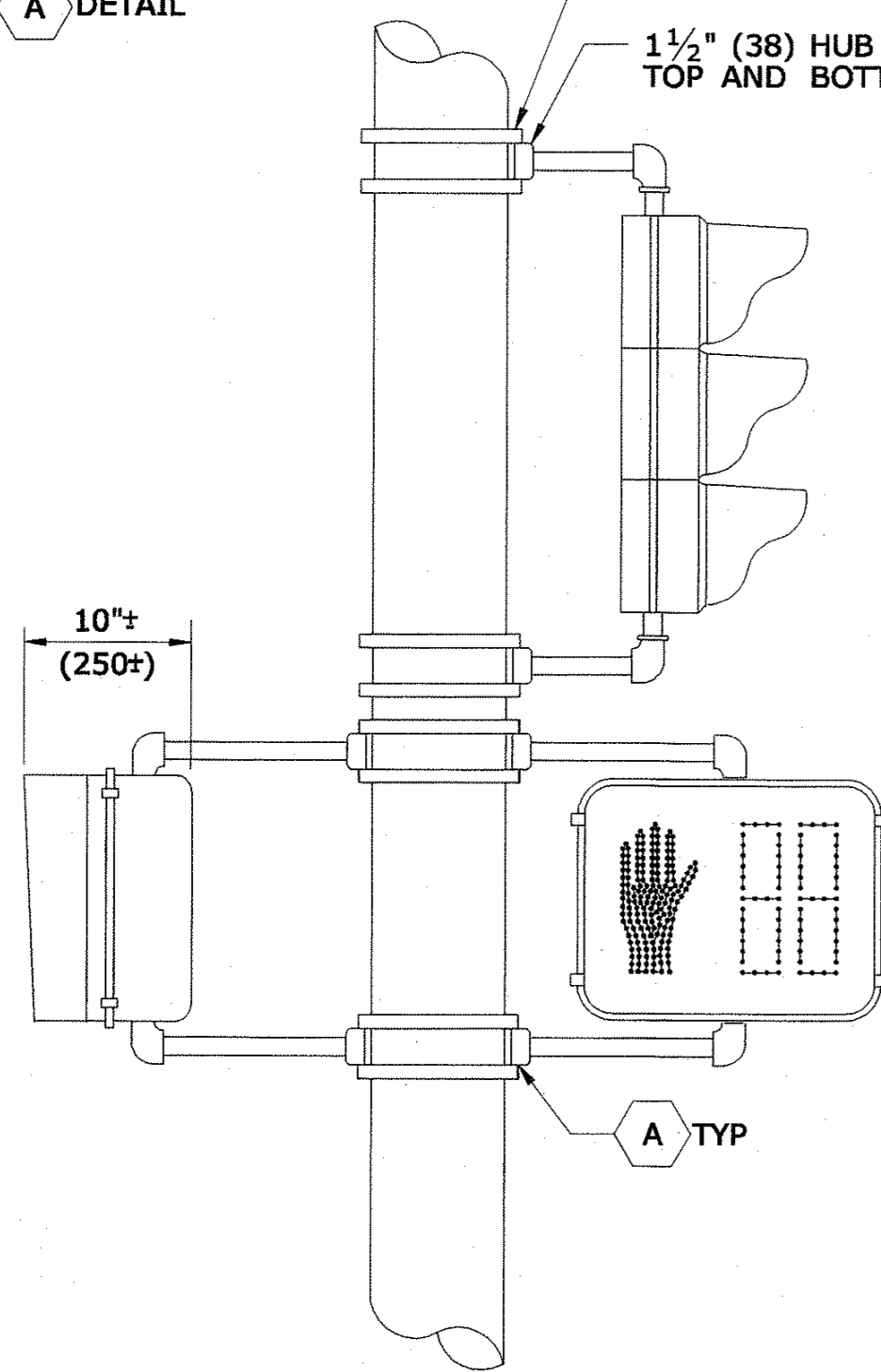
**ALUMINUM PEDESTAL
INSTALLATION DETAIL**



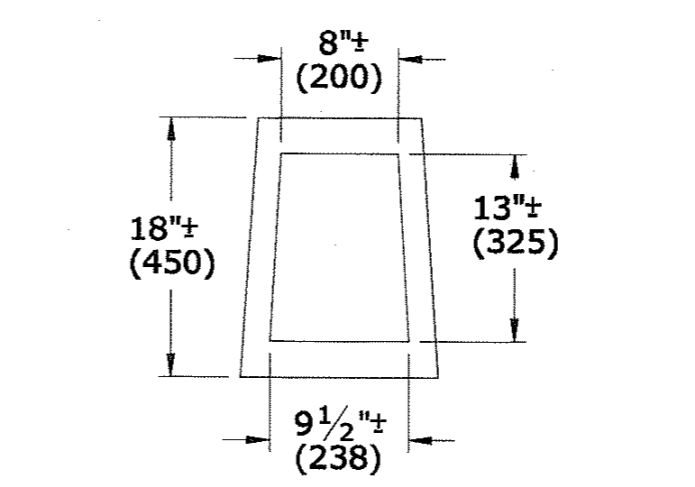
A DETAIL

3/4" (19) STAINLESS
STEEL BANDING AND BUCKLE, TYP

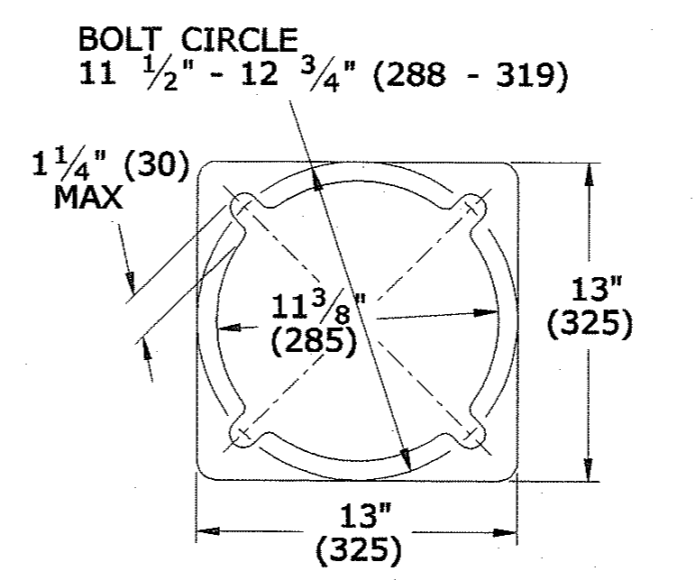
1 1/2" (38) HUB PLATE, IRON
TOP AND BOTTOM, TYP



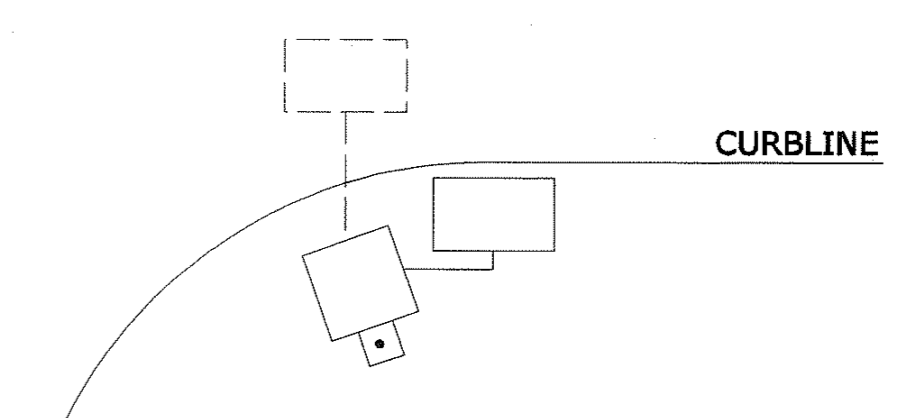
**ONE WAY TRAFFIC SIGNAL
POLE MOUNTED**



**ALUMINUM PEDESTAL
DOOR OPENING DETAIL**



PEDESTAL BASE PLAN



WHEN PEDESTALS OR SPAN POLES ARE INSTALLED CLOSE TO THE CURB,
SIDE MOUNT PEDESTRIAN OR TRAFFIC SIGNALS TO AVOID VISOR DAMAGE
FROM TURNING VEHICLES.

NOTES:

- A SECURE LOWER HUB PLATE WITH STAINLESS STEEL SET SCREW OR PIN PRIOR TO BANDING TO PREVENT MOVEMENT. INSTALL CABLE THROUGH BOTTOM OF HUB PLATE.
- B REFER TO CTDOT TRAFFIC STANDARD SHEET, TR-1105-01, TRAFFIC SIGNALS & CABLE ASSIGNMENTS.
- C IF THREADED, MIN 1" (25) THREADED INTO BASE, SECURED WITH STAINLESS STEEL SET SCREWS.
- D BASE DESIGNED AS BREAK-AWAY.

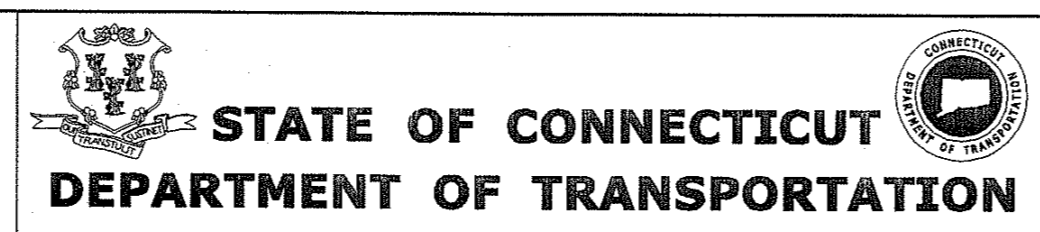
INCANDESCENT WALK SIGNAL LAMPS ARE 67 WATTS, RATED AT 8000 HOURS LAMP LIFE.
LED WALK SIGNAL LAMPS ARE MAXIMUM 15 WATTS, WARRANTED AT 5 YEAR LIFE.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

	PEDESTRIAN SIGNAL
	PEDESTAL MOUNTED, TRAFFIC & PEDESTRIAN SIGNALS
	POLE MOUNTED, TRAFFIC & PEDESTRIAN SIGNALS

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.

NOT TO SCALE



SUBMITTED BY: NAME/DATE/TIME:
Tracy L. Fogarty Tracy L. Fogarty 2010.01.28 15:08:41 -05'00'

APPROVED BY: NAME/DATE/TIME:
John F. Carey Digitally signed by John F. Carey Date: 2010.01.28 15:26:03 -05'00'

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STANDARD SHEET
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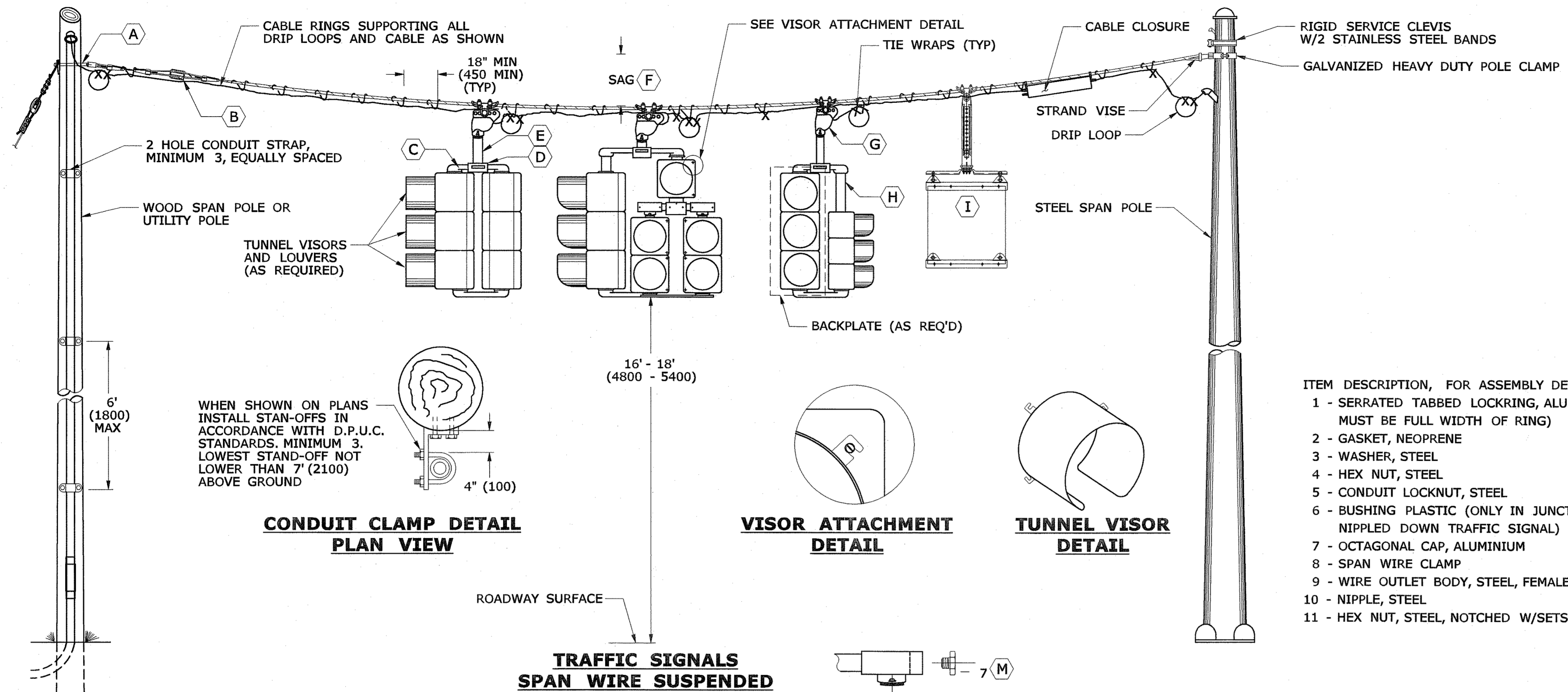
STANDARD SHEET TITLE:
PEDESTALS, PEDESTRIAN SIGNALS

STANDARD SHEET NO.:
TR-1102_01

REV.	DATE	REVISION DESCRIPTION

Plotted Date: 1/28/2010

Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1102_01



TRAFFIC SIGNAL CABLE COLOR ASSIGNMENTS					
SIGNAL ASSEMBLY & CABLE USED	SIGNAL FUNCTION	ARTERY 1	ARTERY 2	SIDE STREET 1	SIDE STREET 2
2 - WAY 9 CONDUCTOR	RED	RED		BLACK	
	YELLOW	ORANGE		WHITE \ BLACK	
	GREEN	GREEN		BLUE	
	SPARE	GREEN\BLACK		RED \ BLACK	
	NEUTRAL	WHITE			
3 - WAY 12 CONDUCTOR	RED	RED	RED \ BLACK	BLACK	
	YELLOW	ORANGE	ORANGE \ BLACK	WHITE \ BLACK	
	GREEN	GREEN	GREEN \ BLACK	BLUE	
	SPARE	BLUE\BLACK	BLACK \ WHITE		
	NEUTRAL	WHITE			
4 - WAY 15 CONDUCTOR	RED	RED	RED \ BLACK	BLACK	RED \ WHITE
	YELLOW	ORANGE	ORANGE \ BLACK	WHITE \ BLACK	BLACK \ WHITE
	GREEN	GREEN	GREEN \ BLACK	BLUE	GREEN \ WHITE
	SPARE	BLUE\BLACK		BLUE \ WHITE	
	NEUTRAL	WHITE			

PEDESTRIAN SIGNAL CABLE COLOR ASSIGNMENTS		
SIGNAL ASSEMBLY & CABLE USED	SIGNAL FUNCTION	WIRE COLOR
WALK SIGNAL W/ PUSHBUTTON 7 CONDUCTOR	DON'T WALK	RED
	WALK	GREEN
	NEUTRAL FOR WALK SIGNAL	WHITE
	PEDESTRIAN PUSHBUTTON	BLACK
	NEUTRAL FOR PUSHBUTTON	ORANGE
WALK SIGNAL W/ PUSHBUTTON 7 CONDUCTOR	SPARE CONDUCTOR	WHITE \ BLACK
	SPARE CONDUCTOR *	BLUE \ BLACK
	RED	RED
	YELLOW	ORANGE
	GREEN	GREEN
NEUTRAL FOR TRAFFIC SIGNAL	NEUTRAL FOR TRAFFIC SIGNAL	WHITE
	PEDESTRIAN PUSHBUTTON	BLACK
	NEUTRAL FOR PUSHBUTTON	WHITE \ BLACK
	SPARE CONDUCTOR *	BLUE \ BLACK

WHEN SHOWN ON PLANS
INSTALL STAN-OFFS IN
ACCORDANCE WITH D.P.U.C.
STANDARDS. MINIMUM 3.
LOWEST STAN-OFF NOT
LOWER THAN 7" (2100)
ABOVE GROUND

**CONDUIT CLAMP
PLAN VIEW**

**VISOR ATTACHMENT
DETAIL**

**TUNNEL VISOR
DETAIL**

- ITEM DESCRIPTION, FOR ASSEMBLY DETAILS
- 1 - SERRATED TABBED LOCKRING, ALUMINUM (TAB MUST BE FULL WIDTH OF RING)
 - 2 - GASKET, NEOPRENE
 - 3 - WASHER, STEEL
 - 4 - HEX NUT, STEEL
 - 5 - CONDUIT LOCKNUT, STEEL
 - 6 - BUSHING PLASTIC (ONLY IN JUNCTION BOX OR NIPPLED DOWN TRAFFIC SIGNAL)
 - 7 - OCTAGONAL CAP, ALUMINIUM
 - 8 - SPAN WIRE CLAMP
 - 9 - WIRE OUTLET BODY, STEEL, FEMALE ONLY
 - 10 - NIPPLE, STEEL
 - 11 - HEX NUT, STEEL, NOTCHED W/SETSCREWS

TABLE NOTES:

1. INSTALL SEPARATE CABLE BETWEEN CLOSURE AND EACH TRAFFIC SIGNAL ASSEMBLY. WIRE EACH TRAFFIC SIGNAL SECTION SEPARATELY BACK TO CABLE CLOSURE. JUMPERS BETWEEN TERMINALS ARE NOT ALLOWED EXCEPT ON NEUTRAL CONDUCTORS.
2. WIRE ALL SIGNALS, SAME DIRECTION FROM CONTROLLER, SEPARATELY WITH CONDUCTORS IN 21 CONDUCTOR CABLE, EVEN IF INDICATIONS ARE IDENTICAL.
3. CABLES THAT FEED PEDESTRIAN INDICATIONS, PUSH BUTTONS, AND DETECTORS BYPASS CABLE CLOSURE.
4. REFER TO INTERCONNECT CABLE INSTALLATION DETAIL SHEET FOR CABLE CLOSURE - TYPE A.

NOTES:

- SERVICE CONDUCTORS: THW, THWN OR XHHW. INDIVIDUAL WIRES MAY BE USED IN LIEU OF MULTI-CONDUCTOR CABLE.
- ALL WORK ON UTILITY POLES MUST COMPLY WITH CURRENT DPUC REGULATIONS AND NESC RULES.
- ATTACH SPAN AT LEAST 12" (300) BELOW LOWEST POWER COMPANY ATTACHMENT, AND AT LEAST 40" (1000) ABOVE HIGHEST COMMUNICATIONS ATTACHMENT, UNLESS OTHERWISE DIRECTED ON PLANS.
 - INSTALL STRAIN INSULATOR APPROX 3' (900) FROM UTILITY POLE.
 - ELBOW OR "T" FITTING MUST HAVE NOTCH FOR SERRATED TABBED LOCKRING.
 - TOP BRACKET CENTER HUB SHALL BE MIN 4" (100) ROUND AND 3" (75) DEEP OR EQUAL VOLUME. SERRATION CAST IN HUB OR TABBED OR SERRATED LOCKRING, TOP OPENING NOT THREADED.
 - NIPPLE LENGTH DEPENDS ON SPAN HEIGHT.
 - SAG OF SPAN TO BE 5%± LENGTH, UNLESS OTHERWISE ALLOWED BY ENGINEER.
 - FACE ALL ENTRANCE FITTINGS TOWARD CABLE CLOSURE UNLESS SIGNAL ASSEMBLY IS UNBALANCED AND A BALANCE ADJUSTER IS USED.
 - INSTALL EXTENSION NIPPLE ON TOP OF SIGNAL HOUSING SO BOTTOM OF ALL SIGNALS ARE EVEN.
 - REFER TO TYPICAL "SIGN FACE SHEET ALUMINUM, R-SERIES SIGNS", AND RELATED SIGN APPURTANCES. MAXIMUM SIGN SIZE 24" x 24" (600 x 600). ALL STAINLESS STEEL HARDWARE. SECURE LOUVERS TO TUNNEL VISORS WITH 3 STAINLESS STEEL SCREWS.

**TRAFFIC SIGNALS
SPAN WIRE SUSPENDED**

**SPAN WIRE HANGER
ASSEMBLY DETAIL**

**TWO WAY, THREE WAY
& FOUR WAY NIPPLE DOWN
ASSEMBLY DETAIL**

**UPPER CENTER
SUPPORT DETAIL**

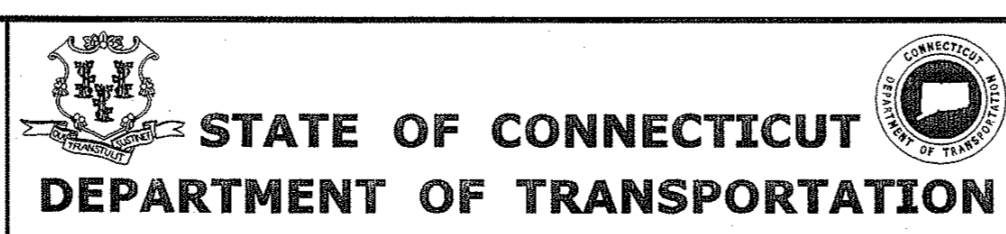
DIRECT ASSEMBLY DETAIL

**3 BOLT
BRACKET ASSEMBLY**

○ PROPOSED WOOD SPAN POLE	○ PROPOSED UTILITY POLE	○ CABLE CLOSURE
● EXISTING WOOD SPAN POLE	● EXISTING UTILITY POLE	○ SPAN MOUNTED SIGN
□ PROPOSED STEEL SPAN POLE	□ POLE ANCHOR & GUY	○ SPAN MOUNTED TRAFFIC SIGNAL
● EXISTING STEEL SPAN POLE	○ STRAIN INSULATOR	

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.

NOT TO SCALE



SUBMITTED BY: NAME/DATE/TIME:
Tracy L. Fogarty
2009.10.16 10:52:44 -04'00'

APPROVED BY: NAME/DATE/TIME:
John F. Carey
2009.10.16 11:40:51 -04'00'

**CTDOT
STANDARD SHEET**

OFFICE OF ENGINEERING

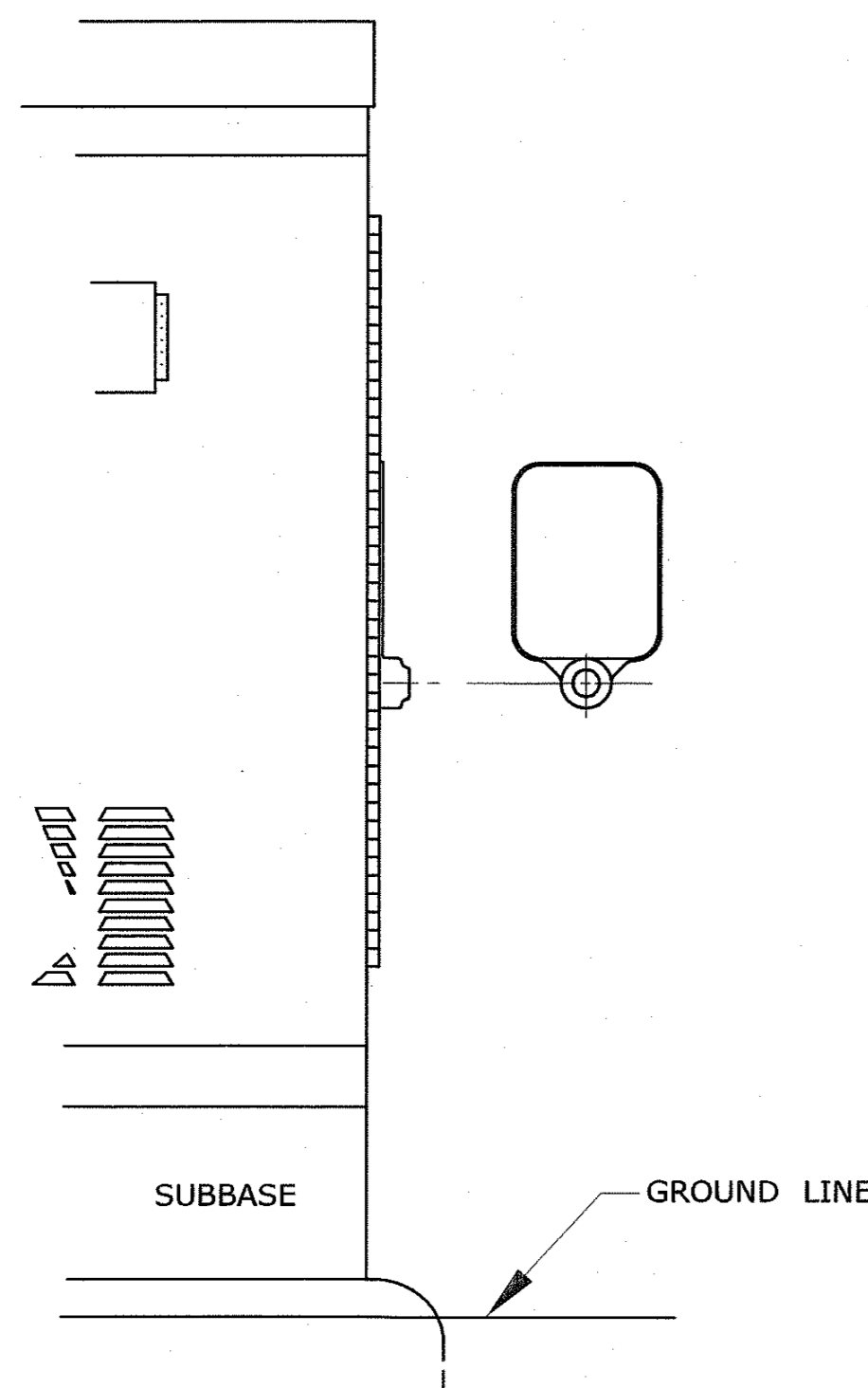
STANDARD SHEET TITLE:
**TRAFFIC SIGNALS,
& CABLE ASSIGNMENTS**

STANDARD SHEET NO.:
TR-1105_01

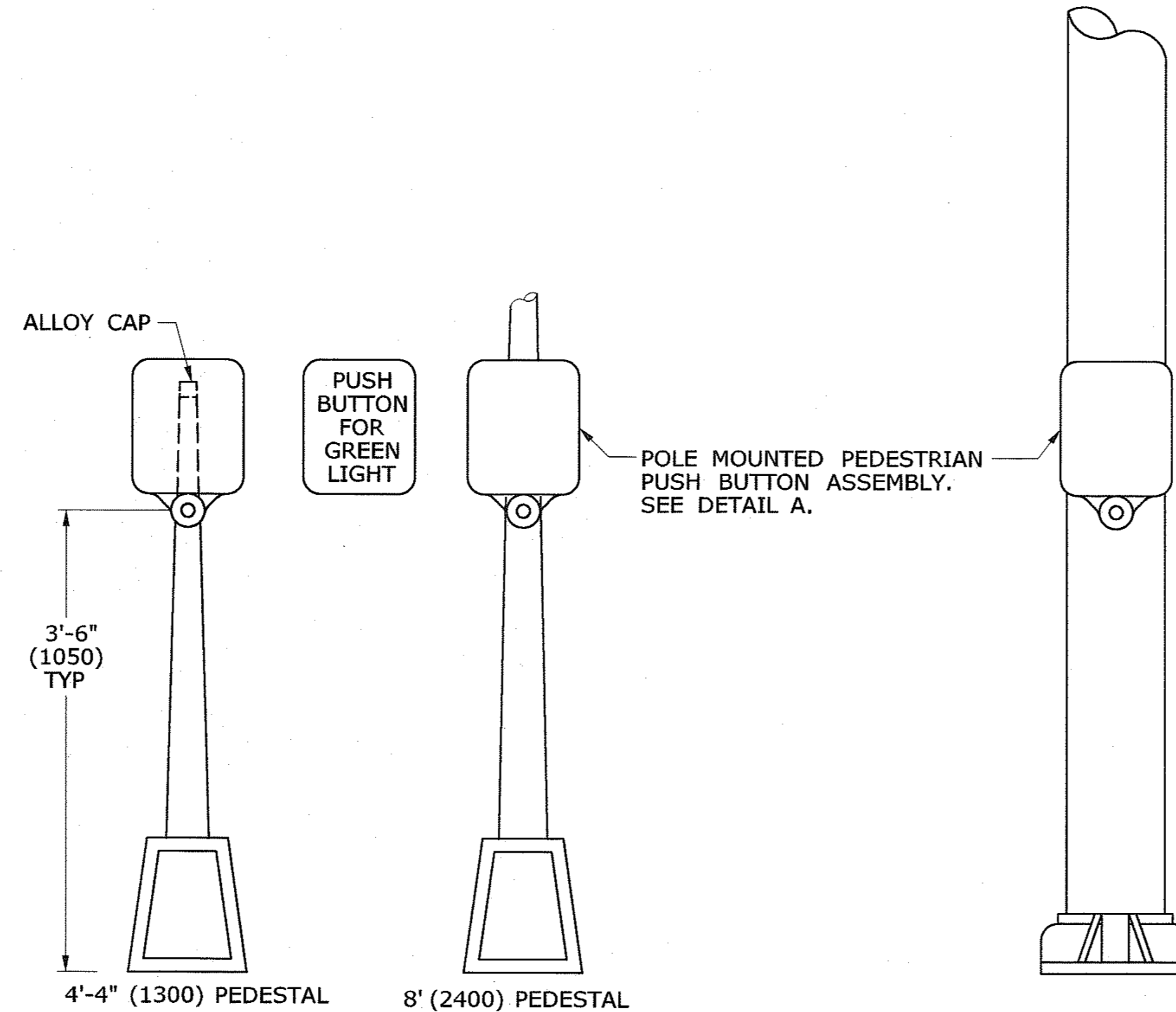
REV.	DATE	REVISION DESCRIPTION
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Plotted Date: 10/16/2009

Filename: CTDOT-TRAFFIC_STD.dgn Model: TR-1105_01

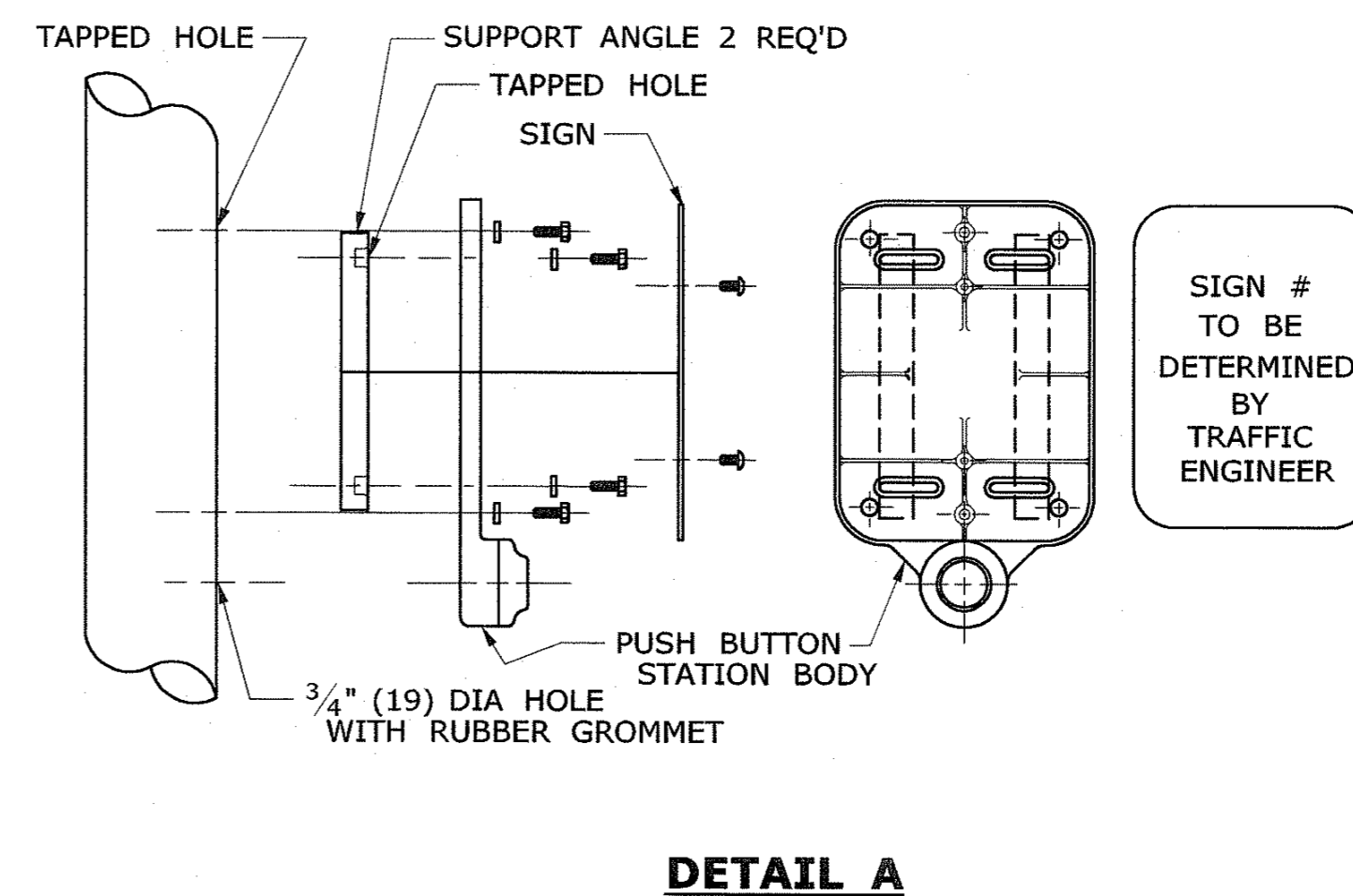


SURFACE MOUNTED



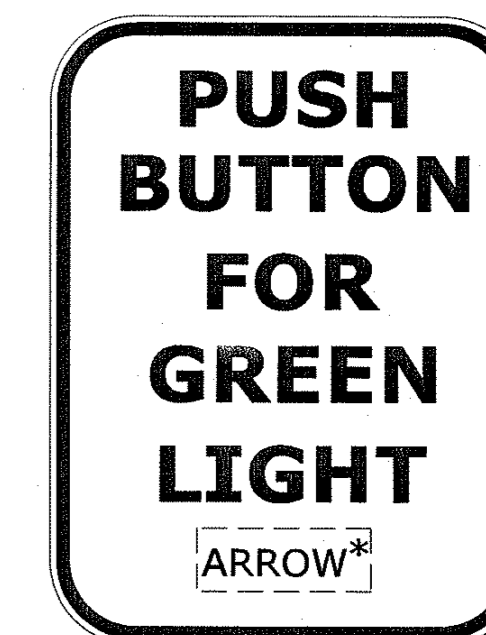
PEDESTAL MOUNTED

SPAN POLE/MAST ARM MOUNTED

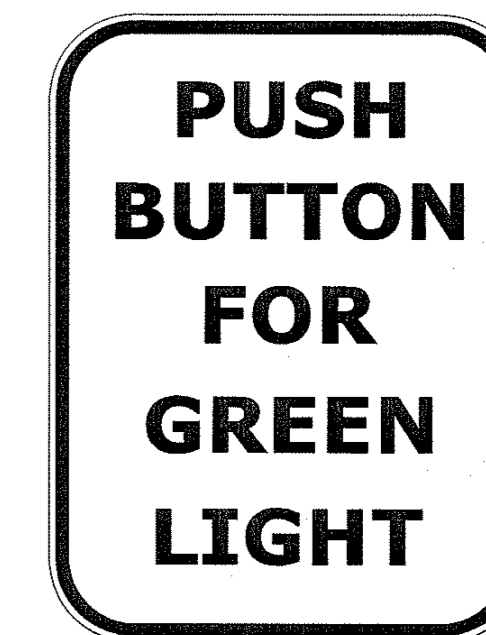


GENERAL NOTES:

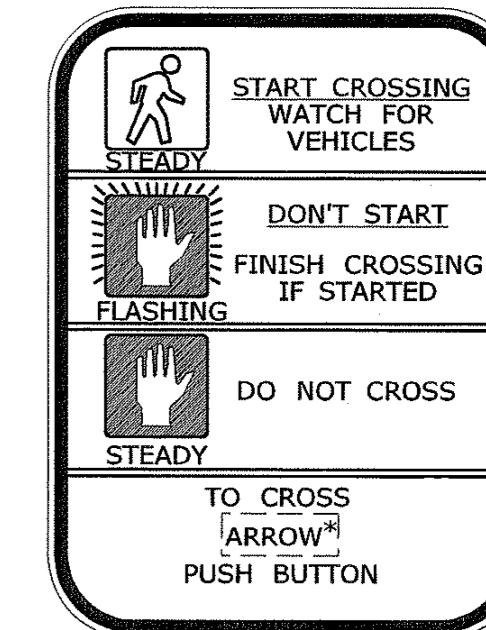
3'-6" (1050) FROM FINISHED GRADE SUCH AS SIDEWALK TO CENTER OF PUSH BUTTON.
 PUSH BUTTON INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA), SECTION 14.2.5, CROSSING CONTROLS.
 4'-4" (1300) PEDESTAL TO INCLUDE ALLOY CAP SECURED WITH STAINLESS STEEL SET SCREW.
 INSTALL PUSH BUTTON ON SIDE OF CONTROLLER CABINET, PEDESTAL, OR POLE SO IT IS MOST ACCESSIBLE TO PEDESTRIANS.



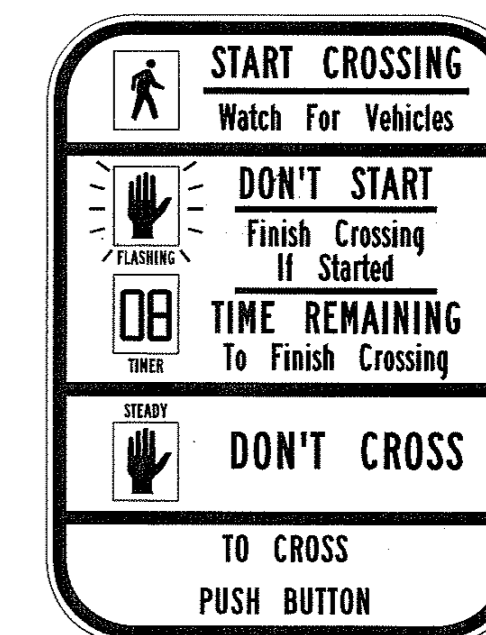
SIGN # 31-0833
 * VARIABLE ARROW



SIGN # 31-0835



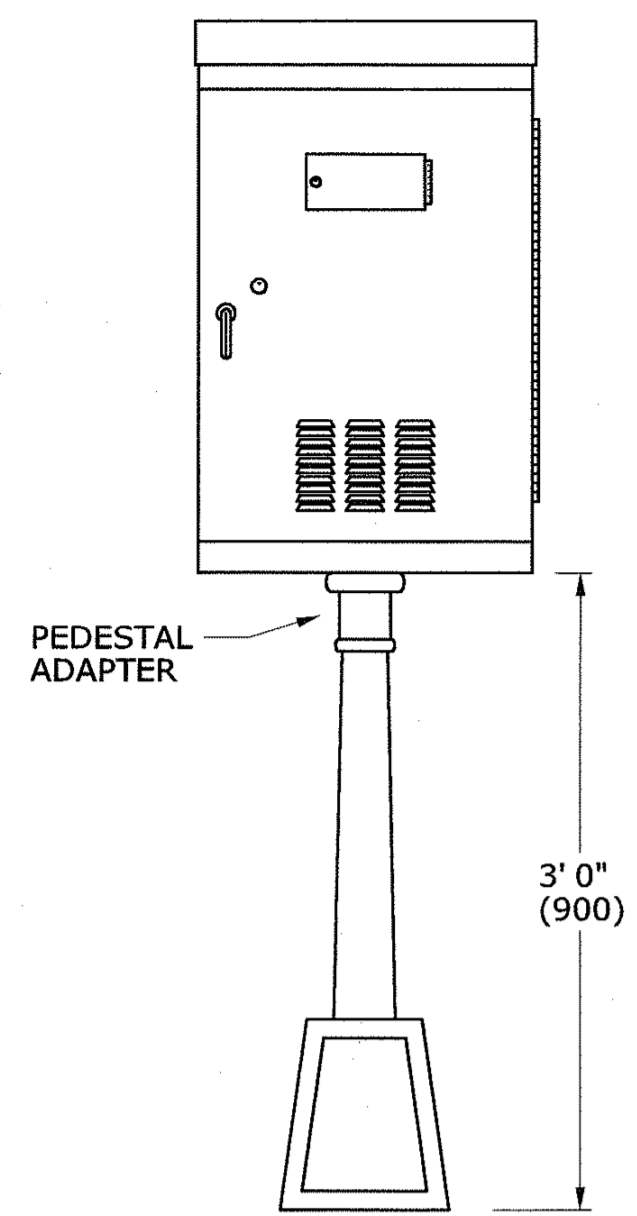
SIGN # 31-0838
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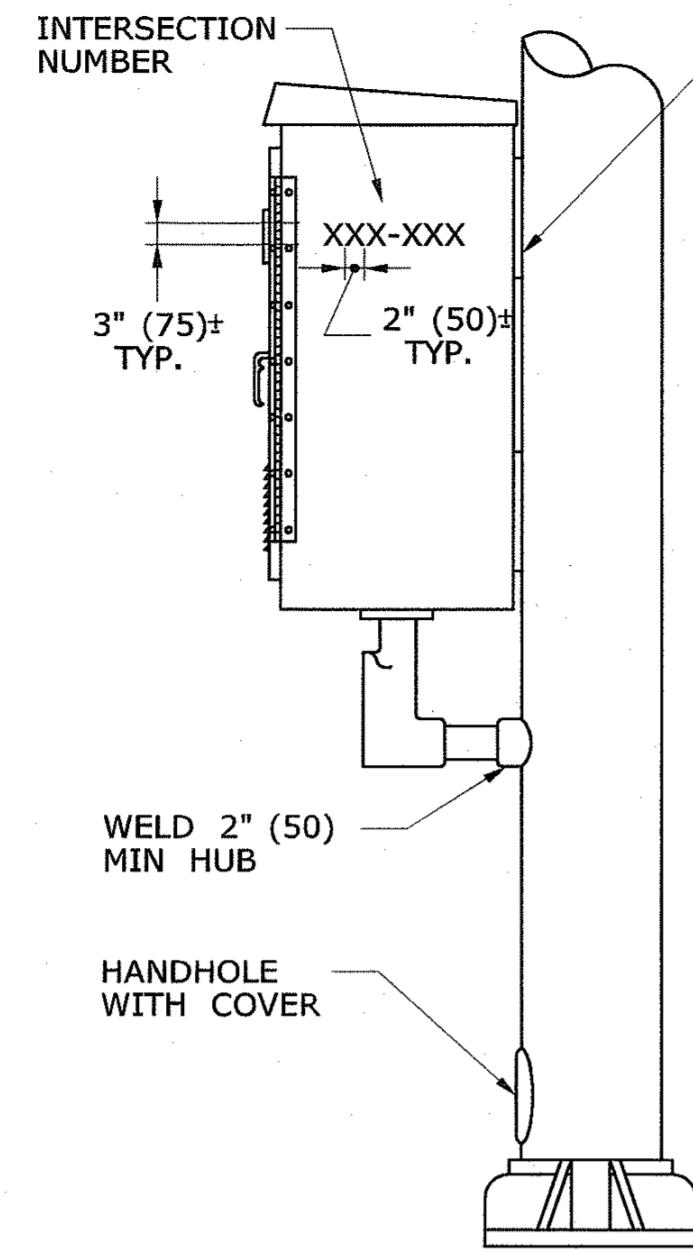
SIGN # 31-0845

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
 PEDESTRIAN PUSH BUTTON
 PEDESTRIAN PUSH BUTTON, PEDESTAL MOUNTED
 PEDESTRIAN PUSH BUTTON, POLE MOUNTED

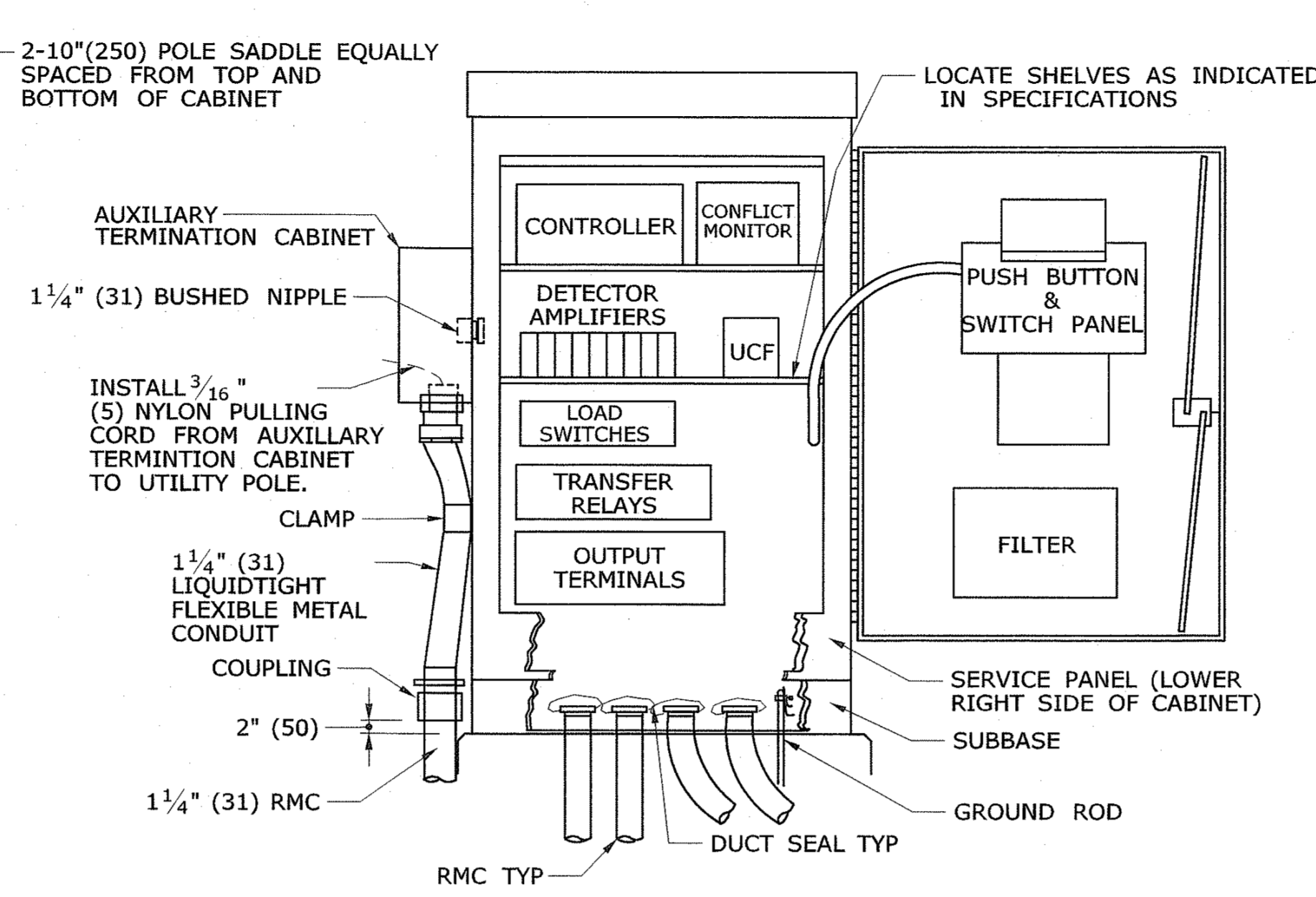
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		NOT TO SCALE		SUBMITTED BY: <i>Tracy L. Fogarty</i> NAME/DATE/TIME: Tracy L. Fogarty 2009.09.15 08:11:27 -04'00'	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: PEDESTRIAN PUSH BUTTONS	STANDARD SHEET NO.: TR-1107_01
REV. DATE	REVISION DESCRIPTION	Plotted Date: 9/11/2009	Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1107_01	APPROVED BY: <i>John F. Carey</i> NAME/DATE/TIME: John F. Carey 2009.09.16 08:23:15 -04'00'	OFFICE OF ENGINEERING		



PEDESTAL MOUNTED TRAFFIC CONTROLLER (TYPE A)

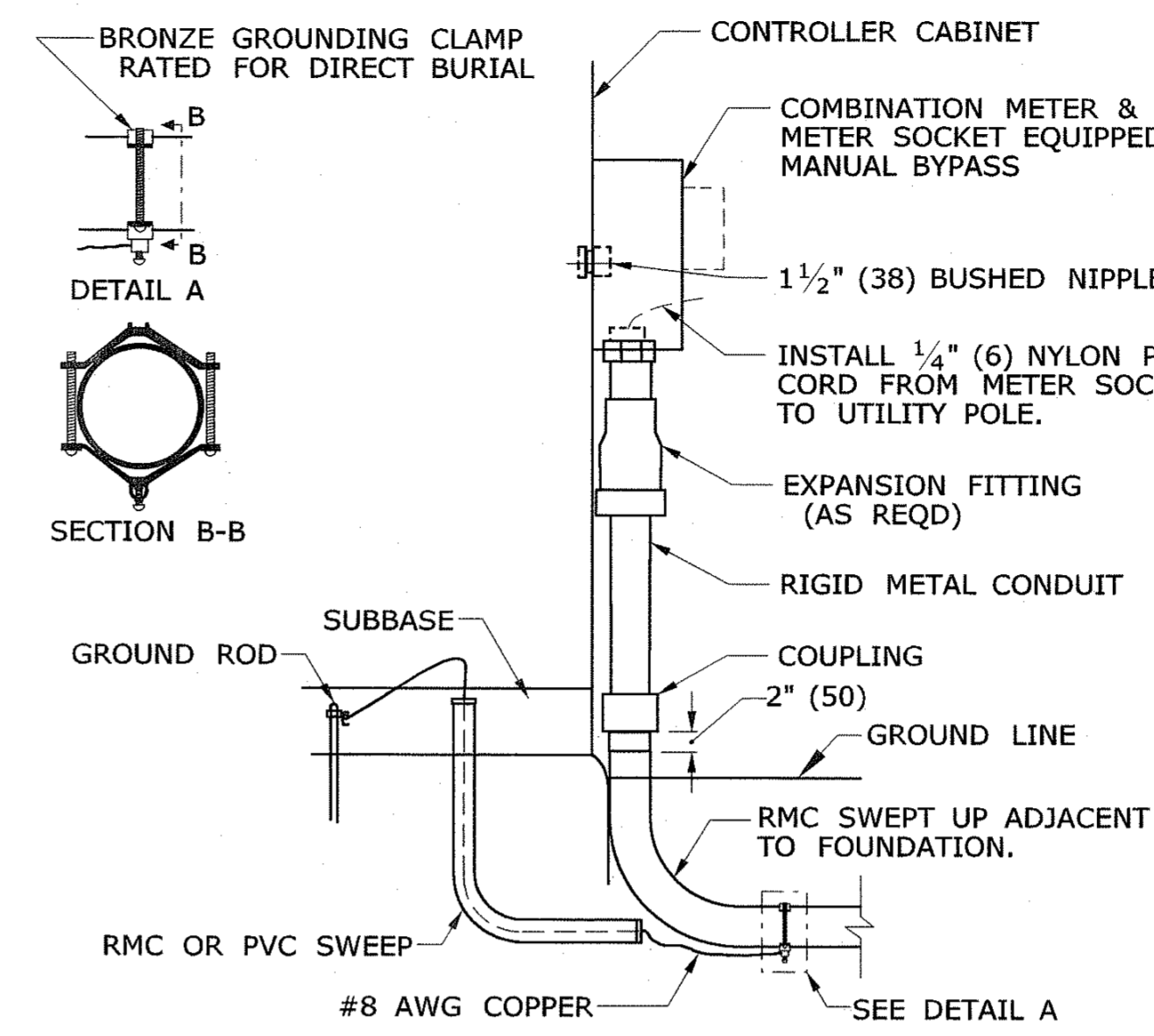


POLE MOUNTED CONTROLLER

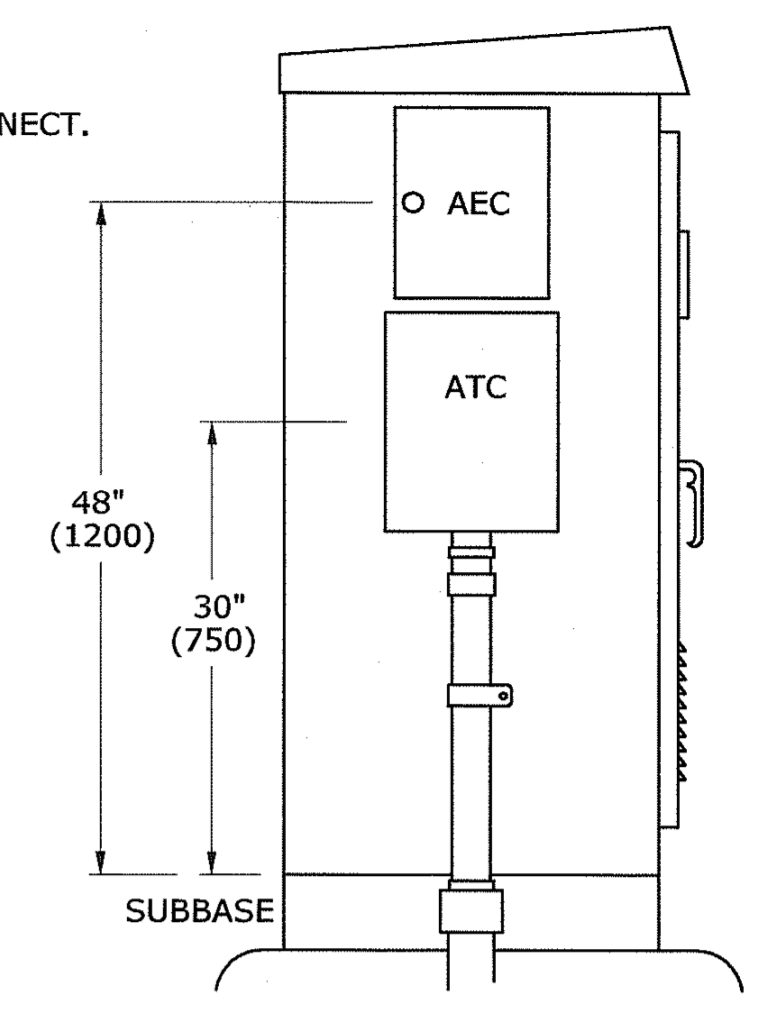


TYPICAL BASE MOUNTED CONTROLLER ON TYPE IV FOUNDATION

PROVIDE A MINIMUM CLEARANCE OF 6" (150) FROM THE CABINET BASE TO ALL COMPONENTS AND TERMINALS.

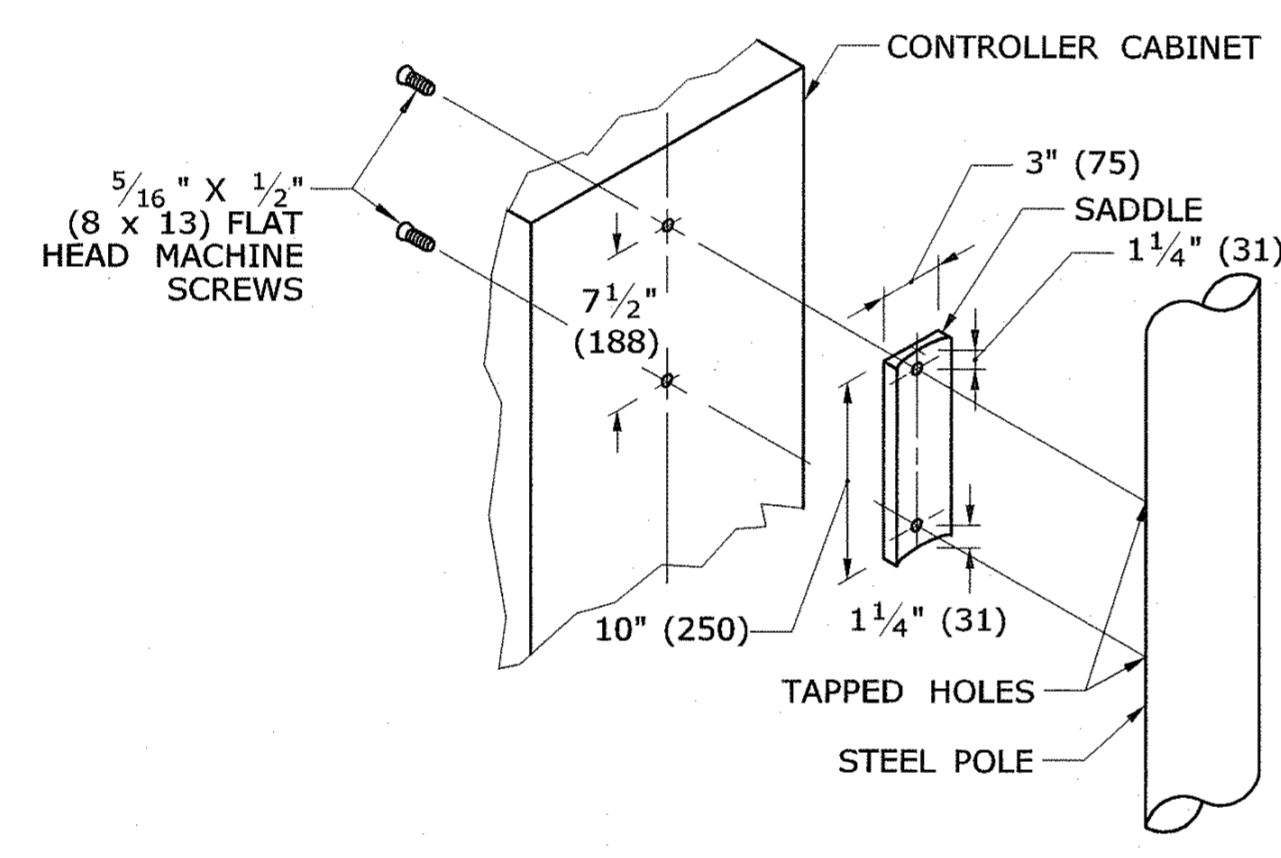


CONTROLLER CABINET WITH METERED SERVICE



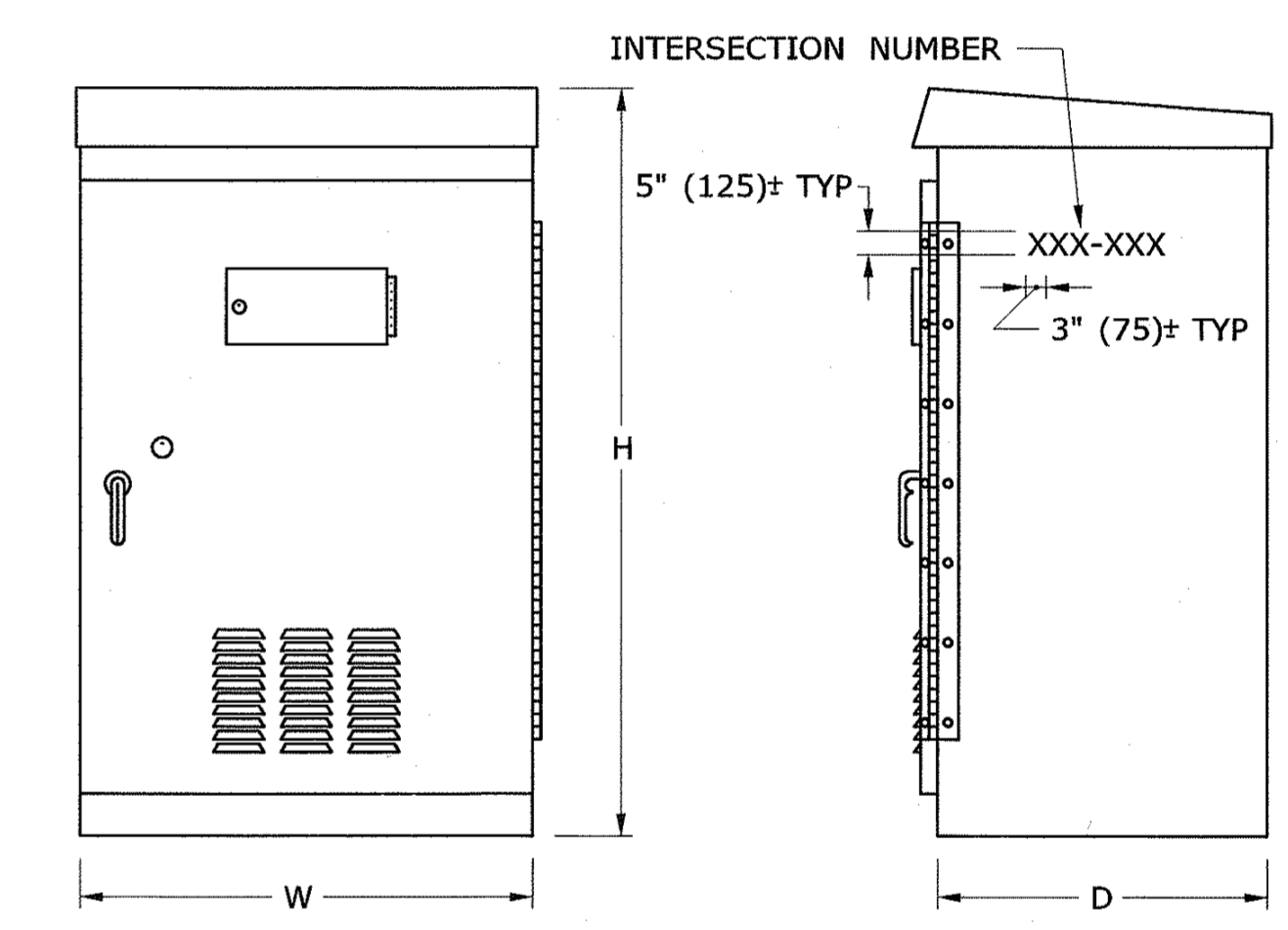
AUXILIARY EQUIPMENT CABINET (AEC) AUXILIARY TERMINATION CABINET (ATC)

CABINET TYPE	HEIGHT	WIDTH	DEPTH
ATC	16"(400)	12"(300)	6"(150)
AEC	14"(350)	11"(275)	11"(275)

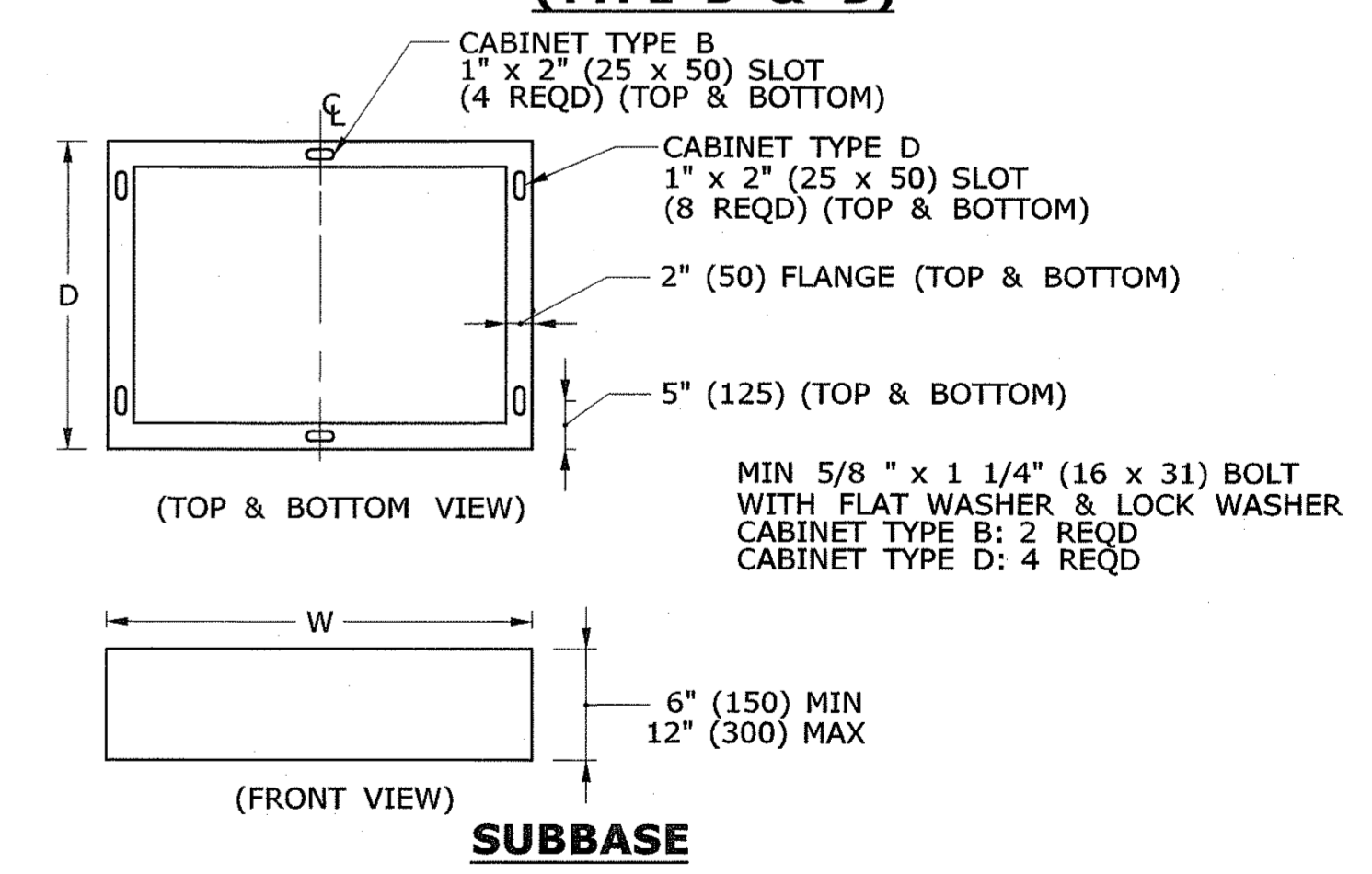


POLE MOUNTING DETAIL FOR CONTROLLER

CABINET TYPE	DEPTH		WIDTH		HEIGHT	
	MIN	MAX	MIN	MAX	MIN	MAX
A	14" (350)	16" (400)	19" (475)	23" (575)	35" (875)	38" (950)
B	17" (425)	19" (475)	30" (750)	34" (850)	52" (1300)	56" (1400)
D	25" (625)	27" (675)	42" (1050)	45" (1125)	54" (1350)	59" (1475)



BASE MOUNTED TRAFFIC CONTROLLER (TYPE B & D)



GENERAL NOTES:

GROUT ALL BASES AFTER MOUNTING ON FOUNDATIONS, WHERE NECESSARY.

3'-0" (900) FROM SIDEWALK TO BOTTOM OF CONTROLLER.

INSTALL PEDESTALS AND POLES SO THAT DOORS AND COVERS ARE ON THE SIDE AWAY FROM THE STREET, UNLESS OTHERWISE SPECIFIED.

INSTALL CABINET SO THAT DOOR OPENS FIELD SIDE UNLESS OTHERWISE NOTED ON PLANS.

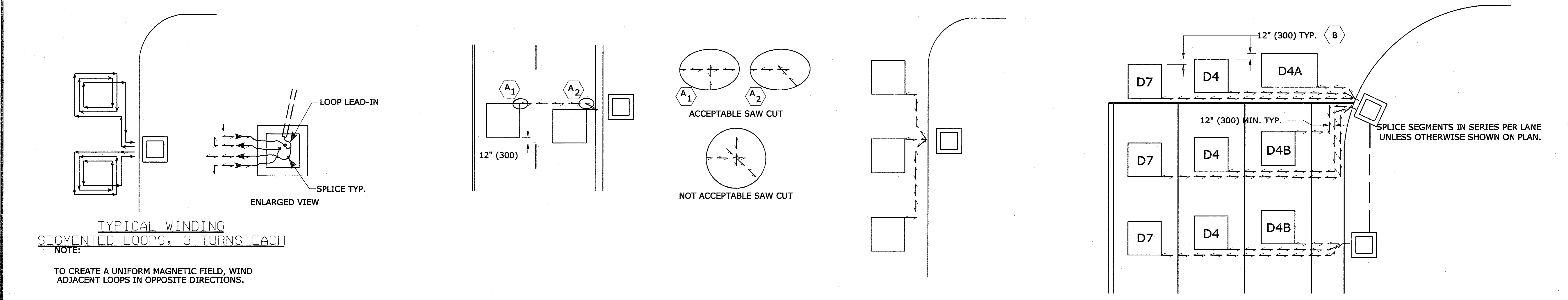
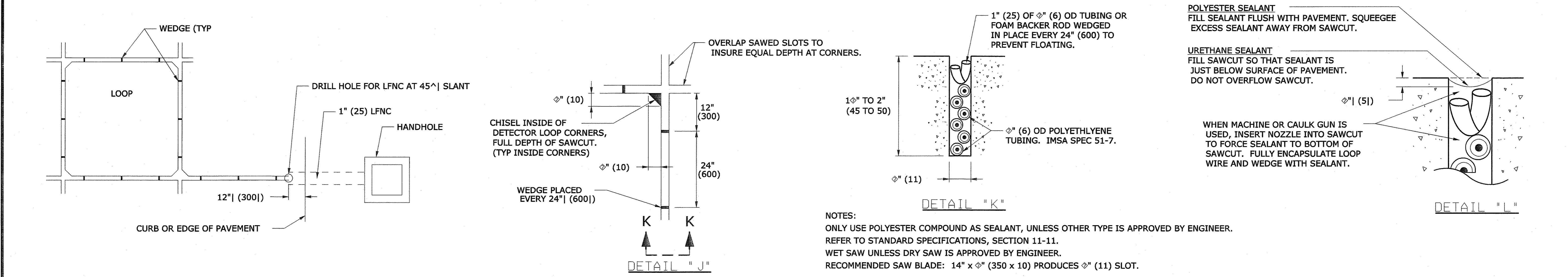
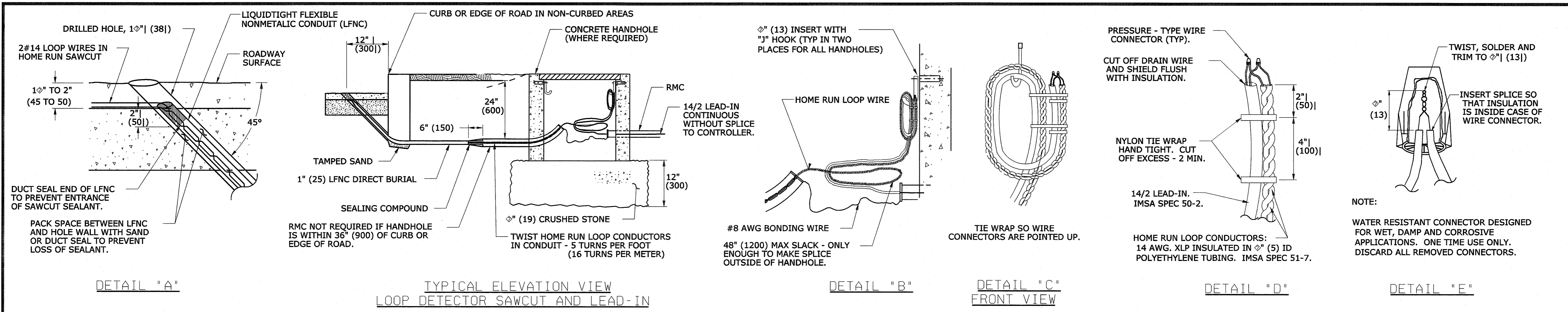
CAULK SEAM BETWEEN SUBBASE AND FOUNDATION.

STENCIL SIX DIGIT INTERSECTION NUMBER, USING BLACK PAINT ON SIDE, FRONT OR BACK OF CABINET MOST VISIBLE FROM THE ROAD.

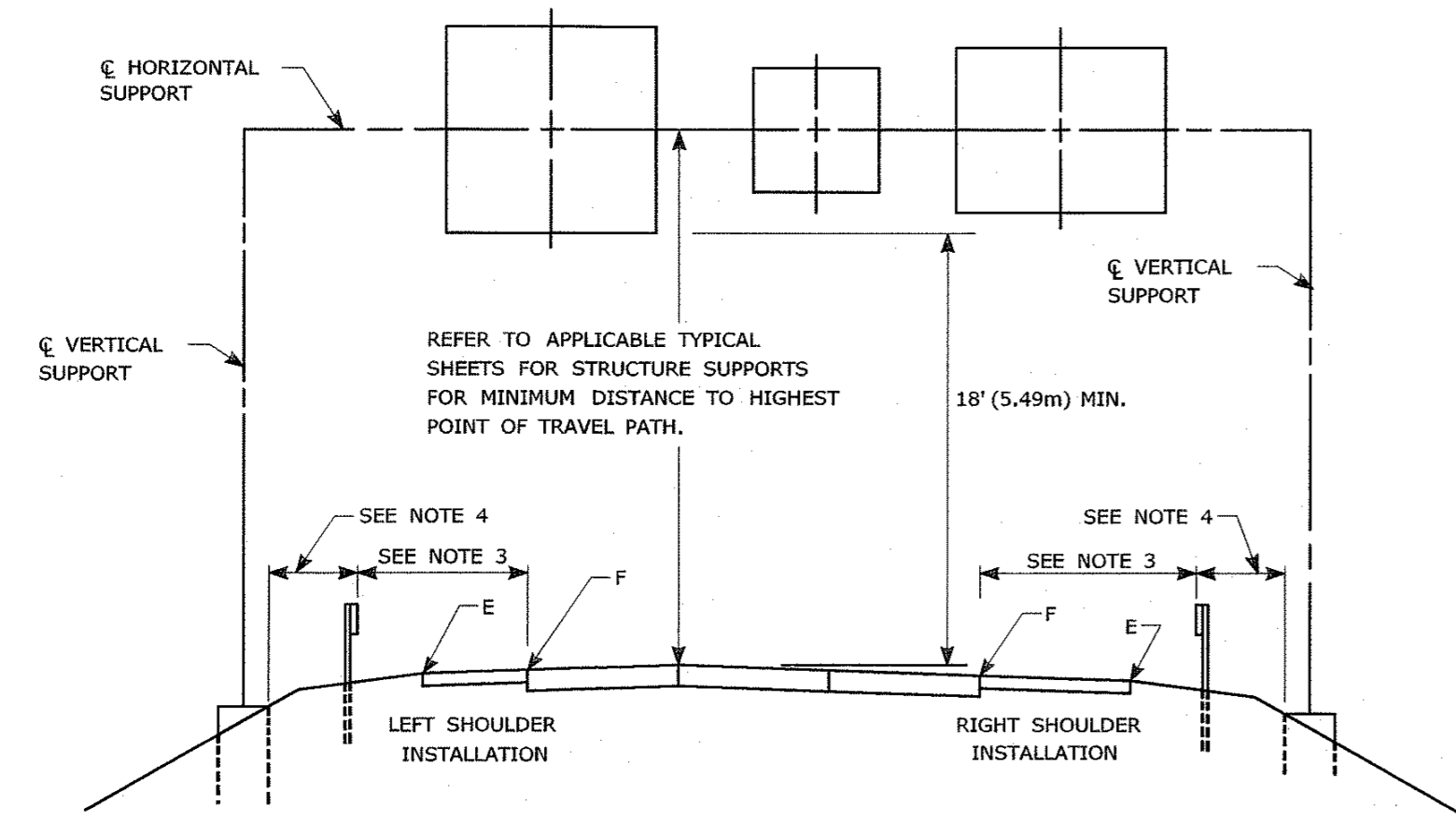
LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

- ☒ CONTROLLER ASSEMBLY
- ☒ AUXILIARY EQUIPMENT CABINET
- ☒ AUXILIARY TERMINATION CABINET

<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>NOT TO SCALE</p>	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	<p>FILENAME: CTDOT-TRAFFIC_STD.dgn MODEL: TR-1108_01</p>	<p>SUBMITTED BY: <i>Tracy L. Fogarty</i> NAME/DATE/TIME: Tracy L. Fogarty 2009.09.15 08:11:48 -04'00'</p> <p>APPROVED BY: <i>John F. Carey</i> NAME/DATE/TIME: John F. Carey 2009.09.16 08:24:27 -04'00'</p>	<p>CTDOT STANDARD SHEET</p> <p>OFFICE OF ENGINEERING</p>	<p>STANDARD SHEET TITLE:</p> <p>CONTROLLERS</p>	<p>STANDARD SHEET NO.:</p> <p>TR-1108_01</p>
<p>REV. DATE REVISION DESCRIPTION</p>							



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. NOT TO SCALE	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SUBMITTED BY: NAME-DATE/TIME APPROVED BY: NAME-DATE/TIME	CTDOT STANDARD SHEET OFFICE OF ENGINEERING	STANDARD SHEET TITLE: LOOP VEHICLE DETECTOR AND SAWCUT	STANDARD SHEET NO.: TR-1111_01
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GUIDE RAIL PLACEMENT FOR SIGN SUPPORTS

NOTES:

- 1) FOR PLACEMENT OF CANTILEVER SIGN SUPPORT USE APPLICABLE PORTION OF ABOVE DETAIL.
- 2) BARRIER SYSTEM IS REQUIRED FOR BOTH SIDES OF MEDIAN SUPPORTS IN NARROW MEDIANS.
- 3) AT LOCATIONS WHERE IMPACT PROTECTION IS NOT REQUIRED FOR ROADSIDE ELEMENTS, FACE OF GUIDE RAIL SHALL BE PLACED 30' (9.1m) FROM EDGE OF TRAVELWAY.
- 4) OFFSETS OF FOUNDATIONS FROM BARRIER SYSTEMS SHALL BE AS SHOWN ELSEWHERE ON THE CONTRACT PLANS.
- 5) ALL SIGNS ARE TO BE HORIZONTAL, REGARDLESS OF CAMBER IN SUPPORT.

FOR MAXIMUM EFFECTIVENESS AND TO ELIMINATE OR MINIMIZE GLARE, POSITION SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS AS FOLLOWS:

ON A TANGENT SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 93° WITH THE TRAFFIC LANE WHICH THE SIGN SERVES:

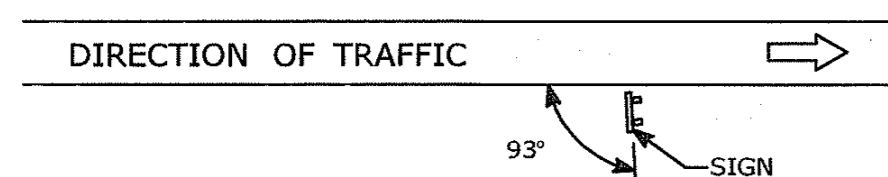


DIAGRAM "A"

ON A HORIZONTAL CURVE SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH A STRAIGHT LINE BETWEEN THE SIGN AND THE POINT AT WHICH THE SIGN SHALL BE READ.

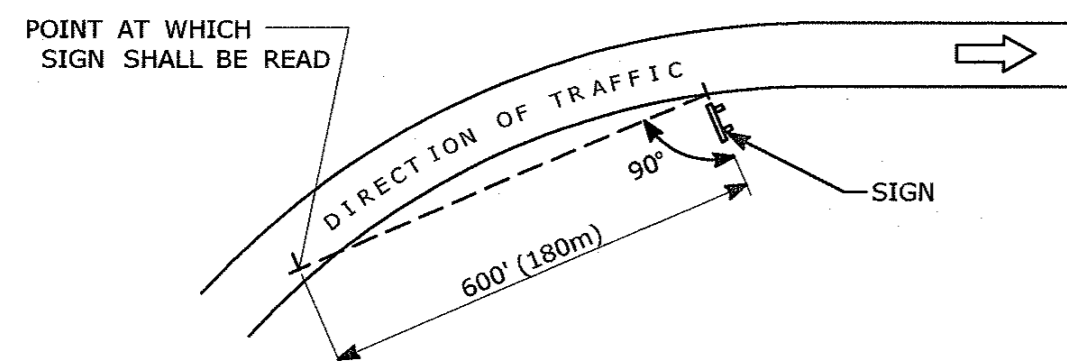
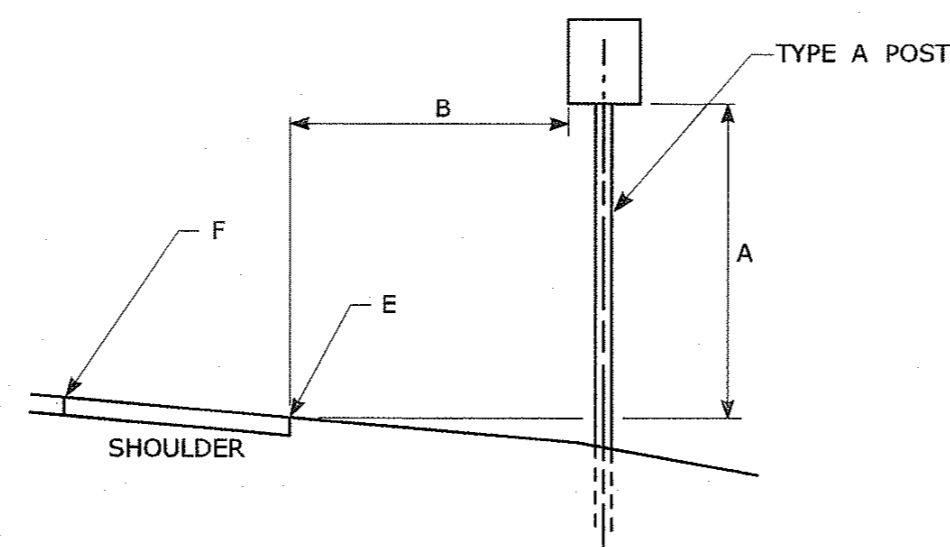
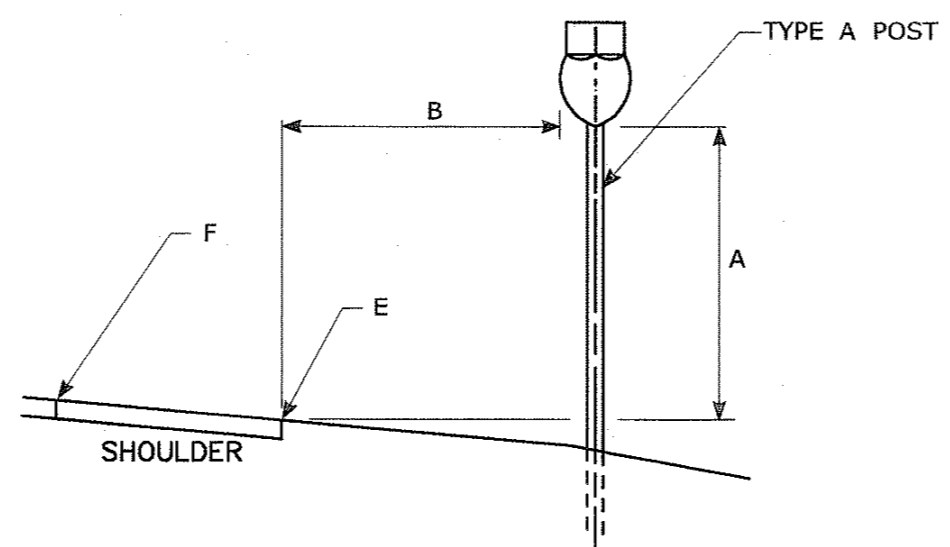


DIAGRAM "B"

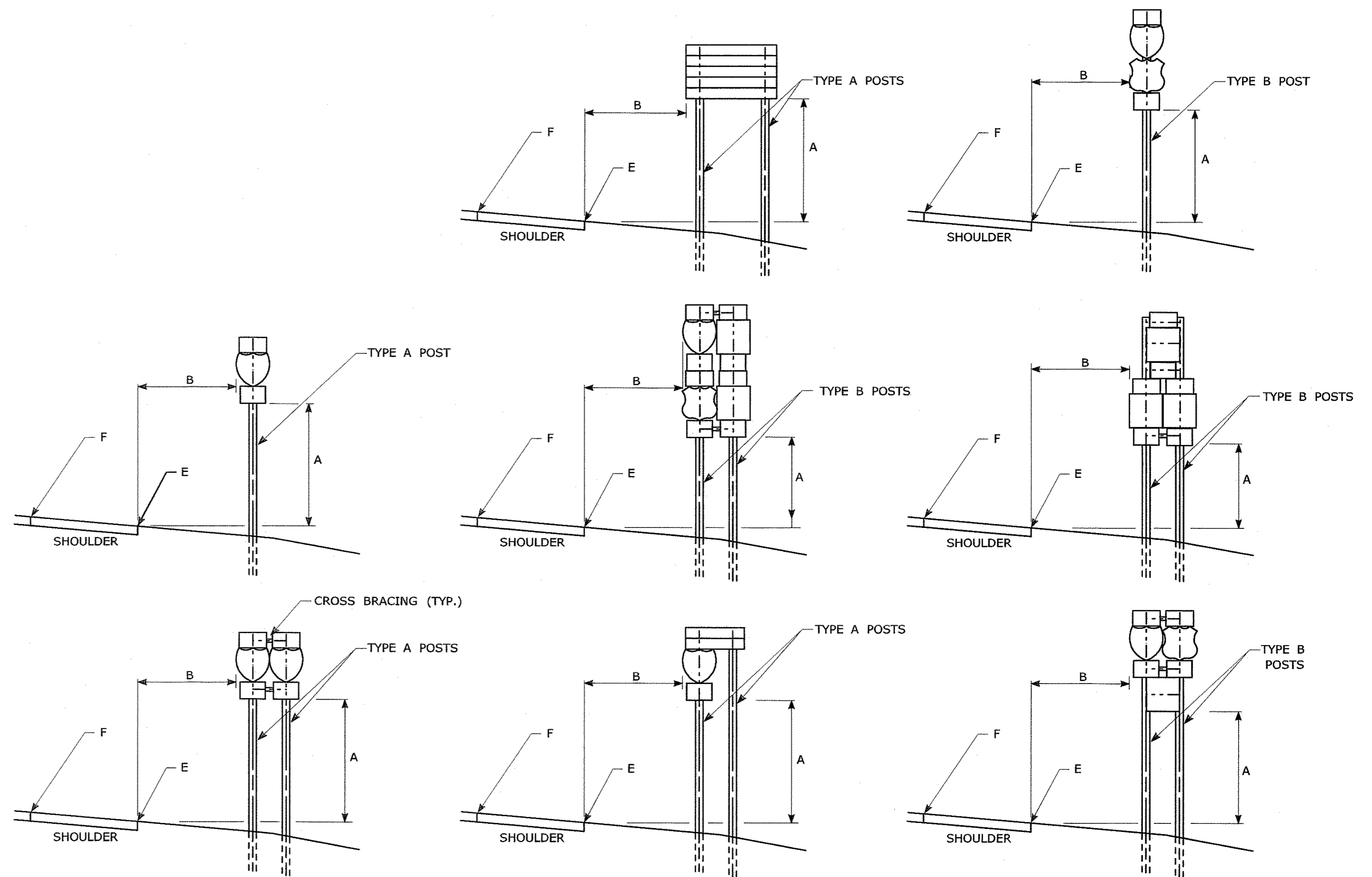
SIGN ORIENTATION DETAILS



TYPICAL REGULATORY & WARNING SIGN PLACEMENT



TYPICAL CONFIRMATORY ROUTE MARKER PLACEMENT



TYPICAL SIGN PLACEMENT AND POST SELECTION

NOTES:

ALL SIGNS AND SHIELDS ON DIRECTIONAL ASSEMBLIES SHALL ABUT VERTICALLY
 2 POST ASSEMBLIES SHALL BE PROVIDED WITH 3" X 1/4" (75 X 6) GALVANIZED STEEL BAR CROSS BRACING.
 REFER TO TRAFFIC TYPICAL SHEET "TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR SIGN POSTS.

DIM."A"	DIM."B"	ASSEMBLY LOCATION
7' (2.1m)	6' (1.8m) 12' (3.6m)	RURAL DISTRICTS & EXPRESSWAYS
7' (2.1m)	2' (0.6m)	BUSINESS & RESIDENTIAL DISTRICTS WHERE PARKING OR OTHER OBSTRUCTIONS LIMIT VISIBILITY
8'-6" (2.6m)	1' (0.3m)	SIDEWALKS

- OR AS DIRECTED BY THE ENGINEER
- 6' FROM EDGE OF SHOULDER, WHEN SHOULDER IS OVER 6' WIDE
12' FROM EDGE OF TRAVELWAY, WHEN SHOULDER IS LESS THAN 6' WIDE.
- A CLEAR PATH OF NOT LESS THAN 3 FT (0.9m) SHALL BE PROVIDED IN SIDEWALK AREAS.
- "E" DENOTES EDGE OF SHOULDER OR FACE OF CURB
- "F" DENOTES EDGE OF TRAVELWAY

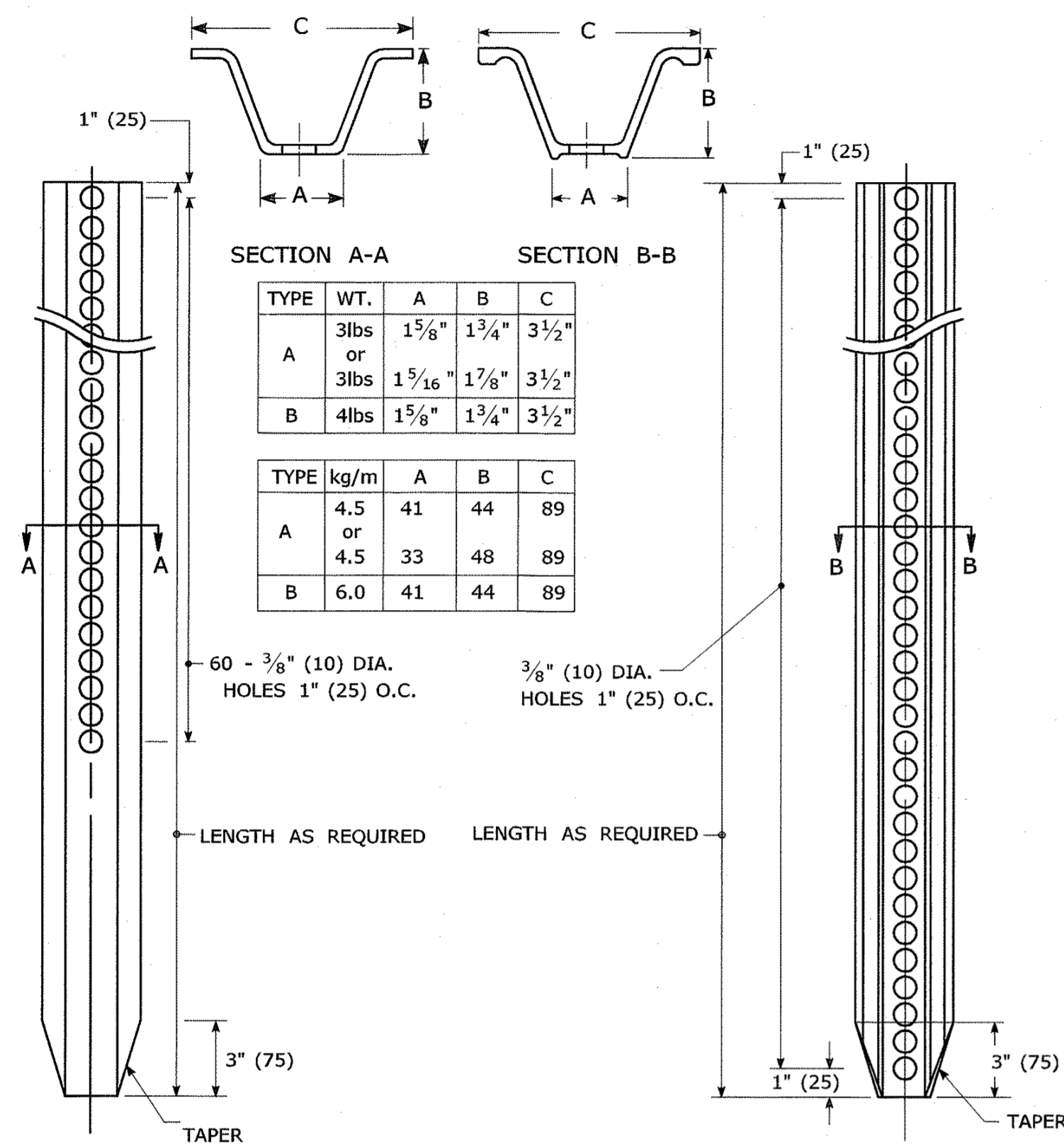
TYPICAL PLACEMENT OF SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

NOTES:

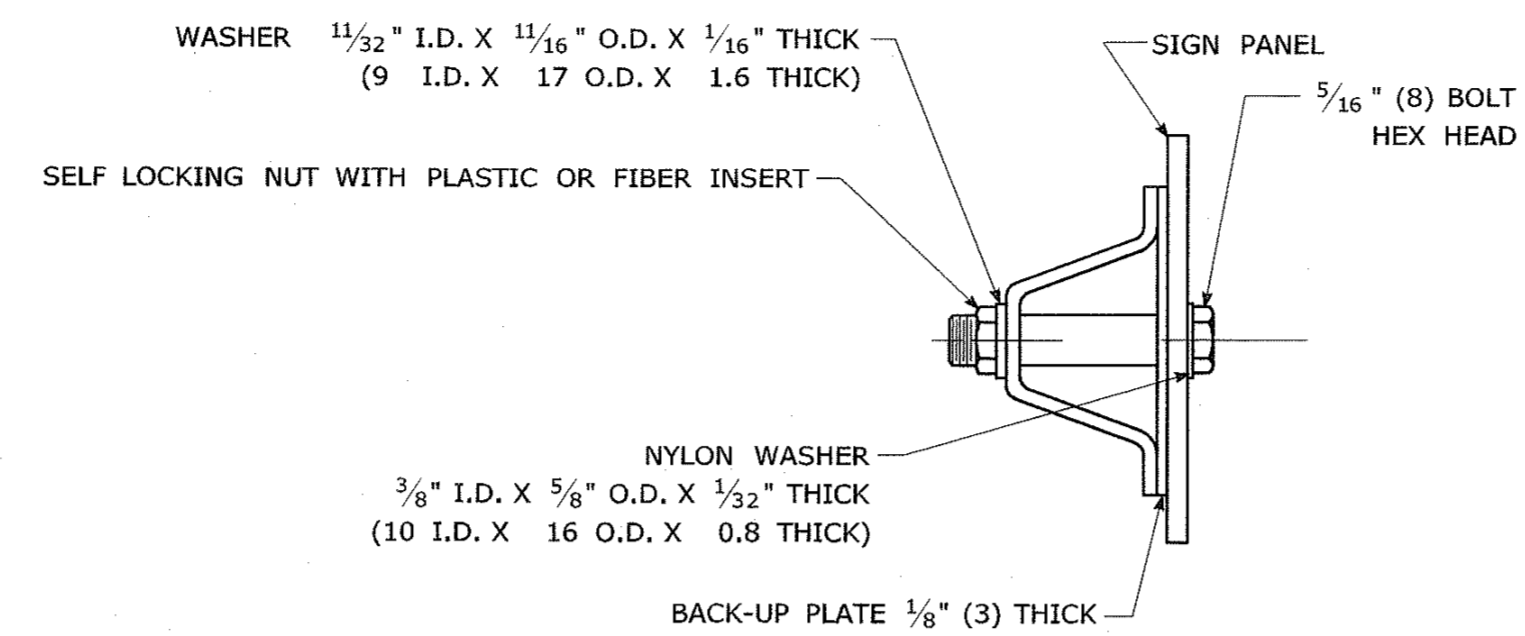
- 1) MIN. VERTICAL CLEARANCE ABOVE SIDEWALKS SHALL BE 8'-6" (2.6m).
- 2) WHERE GUIDE RAIL IS USED, THE OFFSET TO THE NEAR EDGE OF SIGN FACE SHALL BE AS SHOWN ELSEWHERE IN THE CONTRACT PLANS.
- 3) ON INTERSECTING ROADS AT RAMP TERMINI, THE OFFSET TO THE NEAR EDGE OF OF SIGN FACE SHALL BE 6' (1.8m) MIN. FROM POINT "E".
- 4) IF 30'-0" (9.1m) MIN. CANNOT BE MET, PLEASE CONTACT THE ENGINEER.

		<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	<p>NOT TO SCALE</p>	<p>FILENAME: CTDOT_TRAFFIC_STD.dgn Model: TR-1208_01</p>	<p>SUBMITTED BY: <i>Charles S. Harlow</i> NAME/DATE/TIME: Charles S. Harlow 2009.09.11 14:54:55 -04'00'</p> <p>APPROVED BY: <i>John F. Carey</i> NAME/DATE/TIME: John F. Carey 2009.09.16 08:30:41 -04'00'</p>	<p>CTDOT STANDARD SHEET OFFICE OF ENGINEERING</p>	<p>STANDARD SHEET TITLE: SIGN SUPPORT AND SIGN PLACEMENT DETAILS, GORE EXIT SIGN</p>	<p>STANDARD SHEET NO.: TR-1208_01</p>
REV. DATE	REVISION DESCRIPTION			Plotted Date: 9/11/2009				

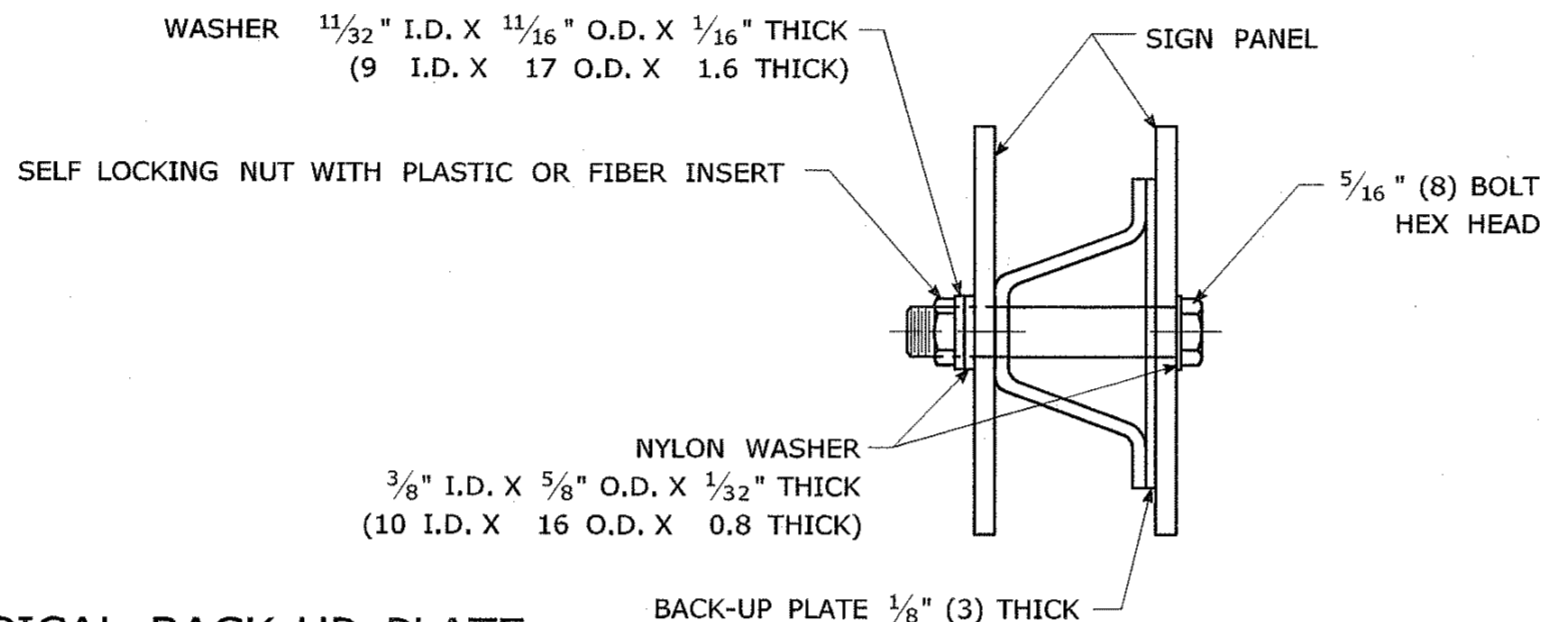
TYPICAL METAL SIGN POSTS



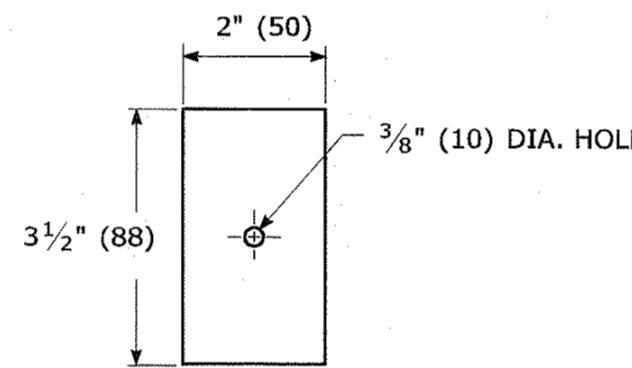
TYPICAL SIGN PANEL ATTACHMENT



TYPICAL BACK TO BACK SIGN PANEL ATTACHMENT



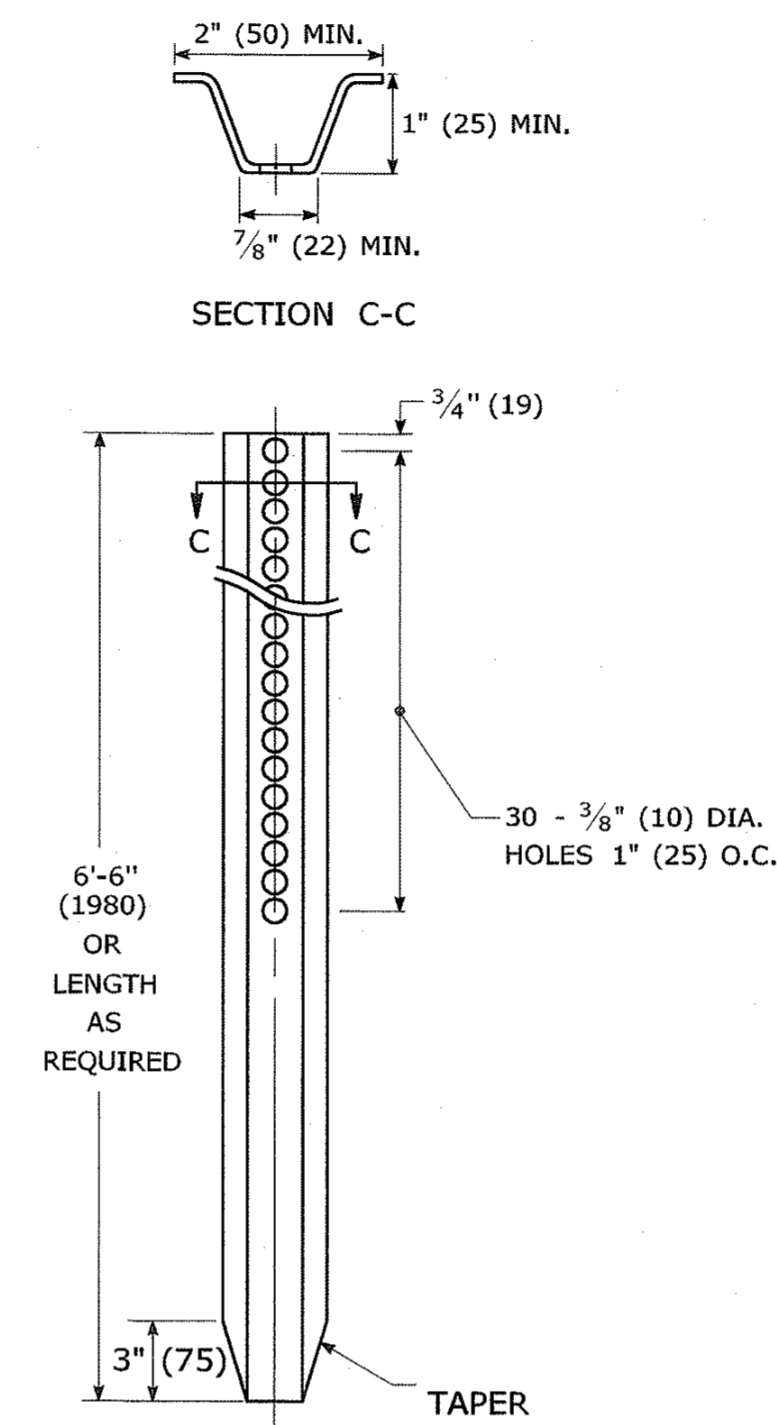
TYPICAL BACK-UP PLATE



BOLTS - STAINLESS STEEL CONFORMING TO ASTM F593, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).
 SELF LOCKING NUTS - STAINLESS STEEL CONFORMING TO ASTM F594, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).
 WASHERS - STAINLESS STEEL CONFORMING TO ASTM A240, (ALLOY TYPES 304 OR 316).

METAL DELINEATOR POST

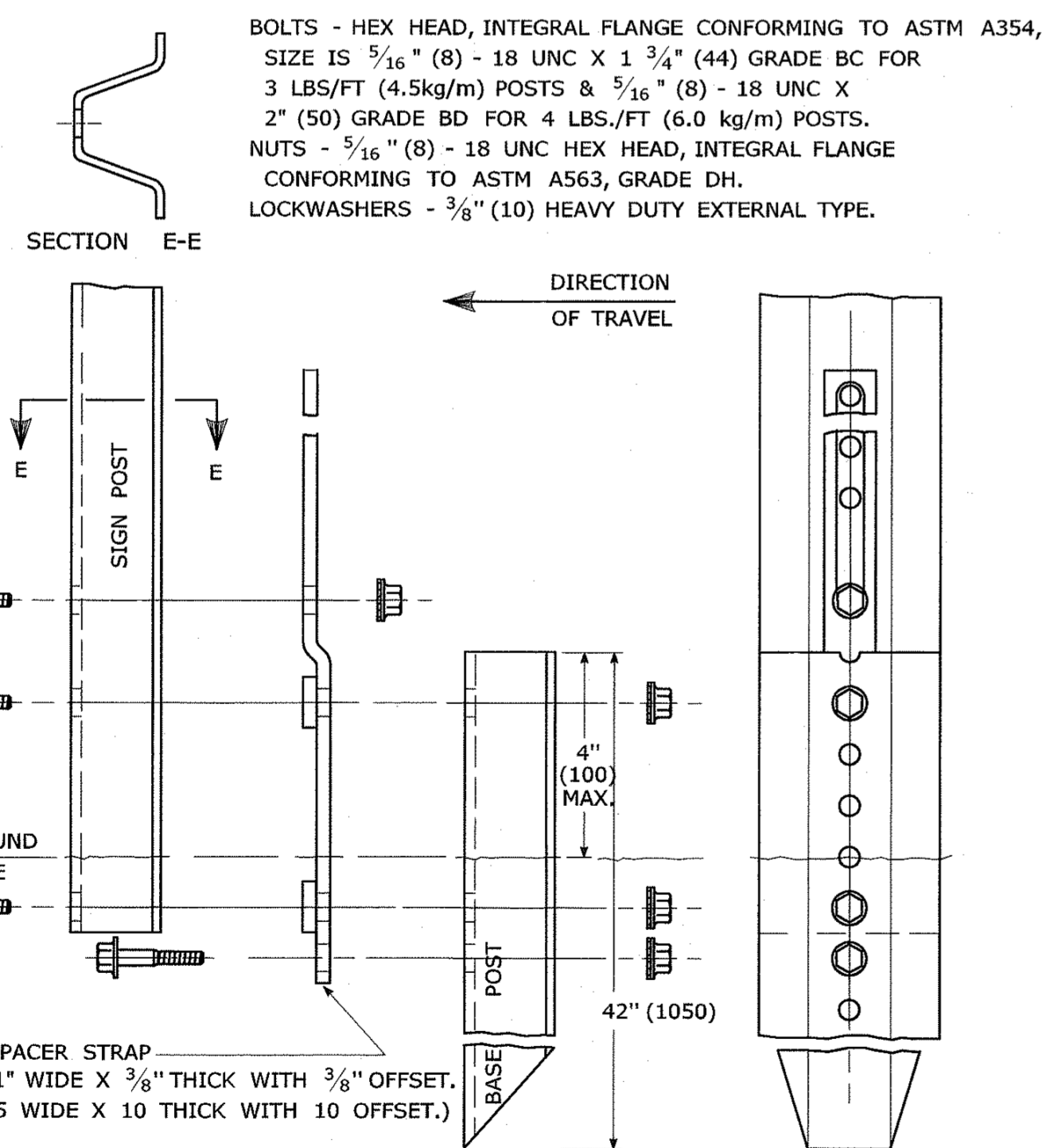
WT./FT. = 1.12 LBS. MIN.
 (MASS/m = 1.67 kg/m MIN.)



GENERAL NOTES:

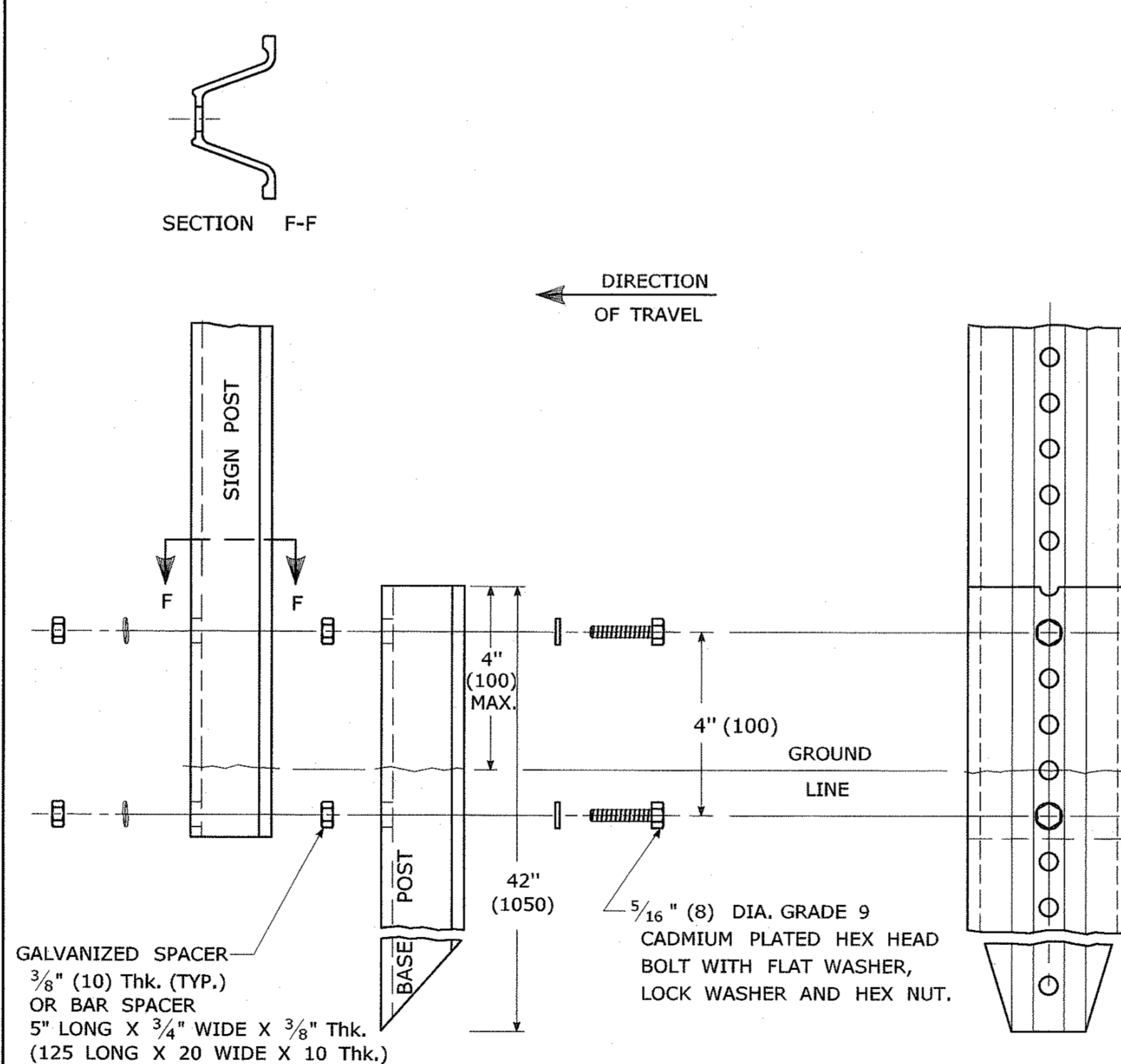
- STEEL FOR DELINEATOR POSTS SHALL BE ASTM A36/A36(m) STEEL. STEEL FOR ALL OTHER POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499 GRADE 60 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT (MASS) OF 91lbs. (45 kg.) OR GREATER PER LINEAR YARD (METER).
- AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123/A123(m).
- WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
- ALL BOLTS, NUTS, AND WASHERS FOR BREAKAWAY INSTALLATIONS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153/A153(m).
- ALL SIGN POSTS SHALL HAVE BREAKAWAY FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS." THE BREAKAWAY FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGNS SHOWN IN THE PLANS AT 60 mph (97 km/h) WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- TYPE A POSTS - 3 lbs/ft (4.5 kg/m) TYPE B POSTS - 4 lbs/ft (6 kg/m).

BREAKAWAY TYPE I INSTALLATION
 FOR 3 & 4 LB. POSTS
 (FOR 4.5 & 6.0 kg/m POSTS)



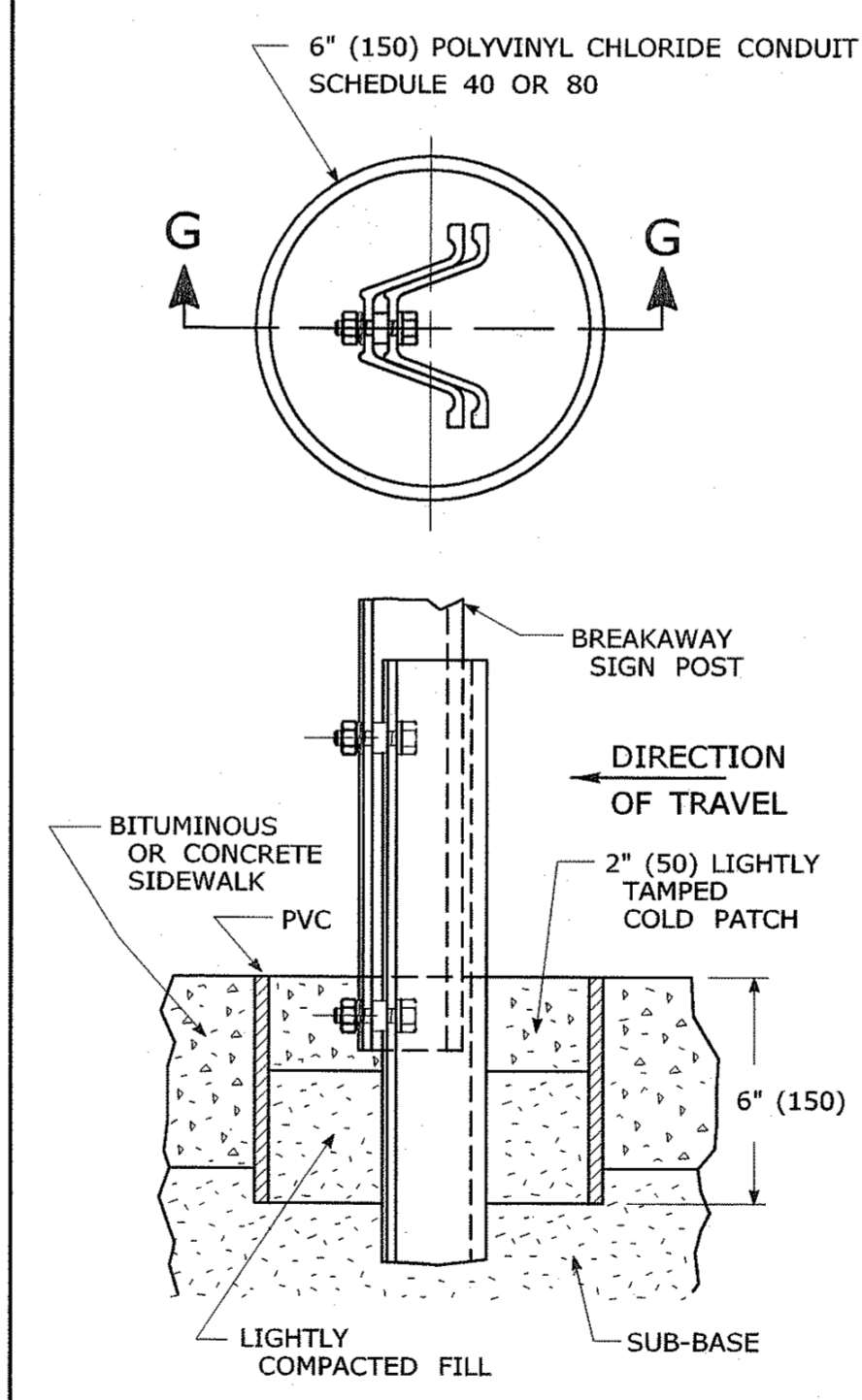
BOLTS - HEX HEAD, INTEGRAL FLANGE CONFORMING TO ASTM A354, SIZE IS 5/16" (8) - 18 UNC X 1 3/4" (44) GRADE BC FOR 3 LBS/FT (4.5kg/m) POSTS & 5/16" (8) - 18 UNC X 2" (50) GRADE BD FOR 4 LBS./FT (6.0 kg/m) POSTS.
 NUTS - 5/16" (8) - 18 UNC HEX HEAD, INTEGRAL FLANGE CONFORMING TO ASTM A563, GRADE DH.
 LOCKWASHERS - 3/8" (10) HEAVY DUTY EXTERNAL TYPE.

BREAKAWAY TYPE II INSTALLATION
 FOR 3 & 4 LB. POSTS
 (FOR 4.5 & 6.0 kg/m POSTS)

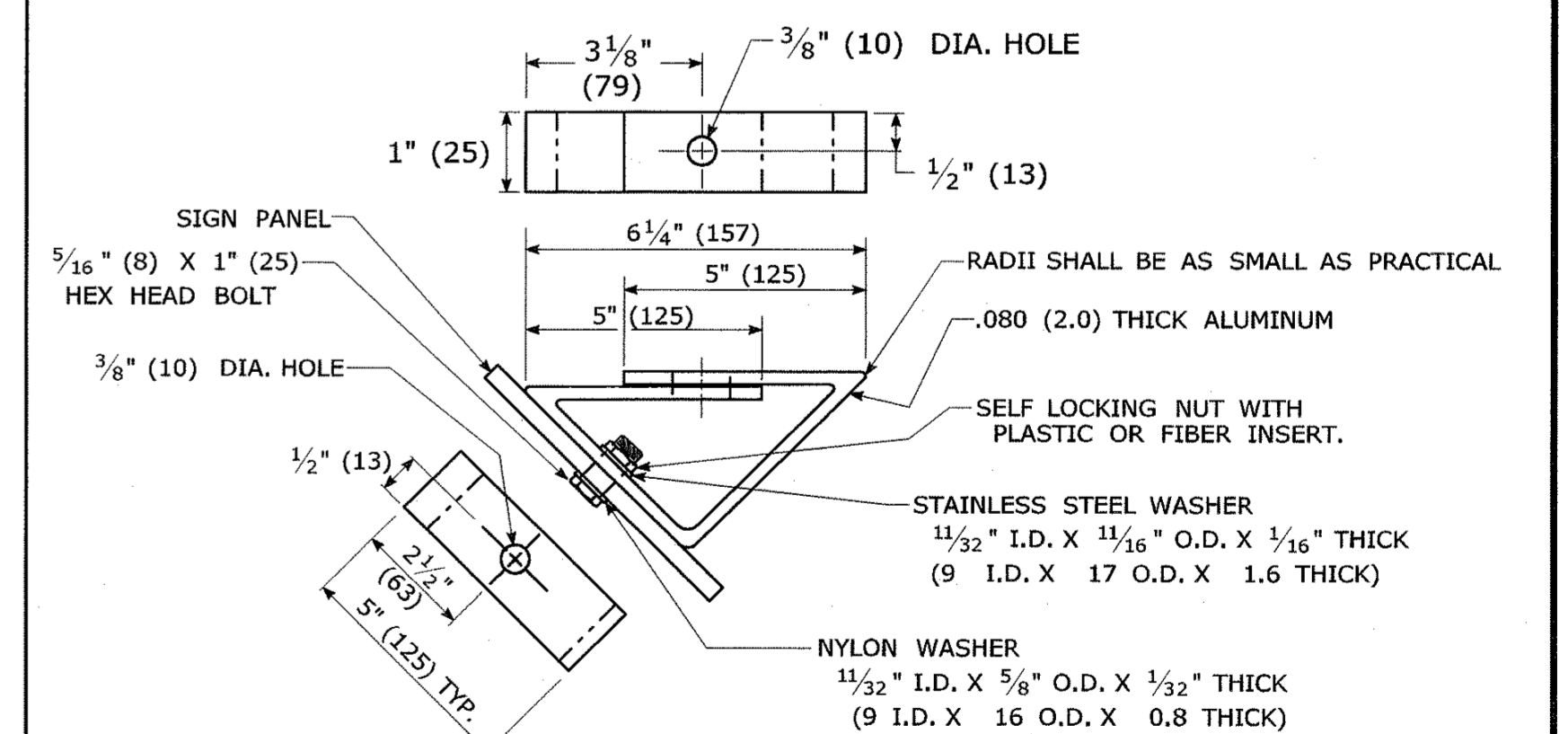


GALVANIZED SPACER - 3/8" (10) THK. (TYP.) OR BAR SPACER
 5" LONG X 3/4" WIDE X 3/8" THK. (125 LONG X 20 WIDE X 10 THK.)

TYPICAL SLEEVE FOR PAVED AREAS



45° SUBMOUNTING BRACKET



REV.	DATE	REVISION DESCRIPTION

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Plotted Date: 9/11/2009

NOT TO SCALE

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1208_02

SUBMITTED BY: Charles S. Harlow
 NAME/DATE/TIME: 2009.09.11 14:55:41 -04'00'

APPROVED BY: Joseph C. Cancelliere
 NAME/DATE/TIME: 2009.09.14 13:24:27 -04'00'

John F. Carey
 2009.09.16 08:31:12 -04'00'

CTDOT
 STANDARD SHEET
 OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
METAL SIGN POSTS AND SIGN MOUNTING DETAILS

STANDARD SHEET NO.:
TR-1208_02

E5 - SERIES				G20 - SERIES				M4 - SERIES				R1 - SERIES				R9 & R11 - SERIES				W1 - SERIES				W3 - SERIES																																																																																																																							
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<p>CONSTRUCTION AHEAD SIDEWALK USE RESTRICTED STATE LIABILITY LIMITED</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>16-S</td><td>10.0</td><td>48X30</td><td>80-1619</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16-S	10.0	48X30	80-1619	2	<p>VARIABLE MILEAGE</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>40.0</td><td>96X60</td><td>50-5925</td><td>2</td></tr> <tr><td>15.0</td><td>60X36</td><td>50-5935</td><td>1</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	40.0	96X60	50-5925	2	15.0	60X36	50-5935	1	<p>DETOUR</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>5.0</td><td>30X24</td><td>80-9710</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	5.0	30X24	80-9710	2	<p>R11-2</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>10.0</td><td>48X30</td><td>80-9080</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.0	48X30	80-9080	2	<p>ROAD WORK AHEAD</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>14.0</td><td>48X42</td><td>31-1906</td><td>2</td></tr> <tr><td>22.5</td><td>60X54</td><td>31-1907</td><td>2</td></tr> <tr><td>30.0</td><td>72X60</td><td>31-1908</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	14.0	48X42	31-1906	2	22.5	60X54	31-1907	2	30.0	72X60	31-1908	2	<p>W1-8</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>1.5</td><td>12X18</td><td>80-9402</td><td>1</td></tr> <tr><td>5.0</td><td>24X30</td><td>80-9403</td><td>1</td></tr> <tr><td>7.5</td><td>30X36</td><td>80-9404</td><td>1</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	1.5	12X18	80-9402	1	5.0	24X30	80-9403	1	7.5	30X36	80-9404	1	<p>W3-3</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>9.0</td><td>36</td><td>80-9052</td><td>1</td></tr> <tr><td>16.0</td><td>48</td><td>80-9053</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9052	1	16.0	48	80-9053	2																																			
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9.0	36	80-9801	1																																																																																																																																																																															
16.0	48	80-9802	2																																																																																																																																																																															
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																																																																															
9.0	36	80-9506	1																																																																																																																																																																															
16.0	48	80-9508	2																																																																																																																																																																															
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																																																																															
9.0	36	80-9614	1																																																																																																																																																																															
16.0	48	80-9615	2																																																																																																																																																																															
AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS																																																																																																																																																																															
16.0	48	80-9837	2																																																																																																																																																																															
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32.0	96X48	80-9815	2																																																																																																																																																																															
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10.5	42X36	80-9623	2																																																																																																																																																																															
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16.0	48	80-9951	2																																																																																																																																																																															
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(2)	9.0	36	80-9958	1																																																																																																																																																																														
(2)	16.0	48	80-9959	2																																																																																																																																																																														
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16.0	48	80-9951	2																																																																																																																																																																															
<p>LANE ENDS MERGE LEFT</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>16.0</td><td>48</td><td>80-9910L</td><td>2</td></tr> <tr><td>16.0</td><td>48</td><td>80-9911R</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9910L	2	16.0	48	80-9911R	2	<p>LANE ENDS MERGE RIGHT</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>16.0</td><td>48</td><td>80-9910L</td><td>2</td></tr> <tr><td>16.0</td><td>48</td><td>80-9911R</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9910L	2	16.0	48	80-9911R	2	<p>SPEED LIMIT AHEAD 00 MPH</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>12.0</td><td>72X24</td><td>80-9519</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	12.0	72X24	80-9519	2	<p>DETOUR 1000 FT</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>9.0</td><td>36</td><td>80-9805</td><td>1</td></tr> <tr><td>16.0</td><td>48</td><td>80-9806</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9805	1	16.0	48	80-9806	2	<p>LEFT LANE CLOSED AHEAD</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>16.0</td><td>48</td><td>80-9847</td><td>2</td></tr> <tr><td>16.0</td><td>48</td><td>80-9848</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9847	2	16.0	48	80-9848	2	<p>RIGHT LANE CLOSED AHEAD</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>16.0</td><td>48</td><td>80-9847</td><td>2</td></tr> <tr><td>16.0</td><td>48</td><td>80-9848</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9847	2	16.0	48	80-9848	2	<p>AHEAD 1/2 MILE</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>1.66</td><td>30X8</td><td>80-9829</td><td>1</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	1.66	30X8	80-9829	1	<p>END BLASTING ZONE</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>7.5</td><td>36X30</td><td>80-9622</td><td>1</td></tr> <tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	7.5	36X30	80-9622	1	10.5	42X36	80-9621	2	<p>STOP</p> <table border="1"> <tr><th>AREA (SQ. FT.)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr> <tr><td>2.51</td><td>19</td><td>80-9950</td><td>1</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.51	19	80-9950	1																																															
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METRIC CONVERSION CHART (1" = 25mm)

ENGLISH (SQ. FT.)	METRIC (SQ. FT.)	ENGLISH (INCHES)	METRIC (INCHES)
12"	300	60"	1500
18"	450	66"	1650
24"	600	72"	1800
30"	750	78"	1950
36"	900	84"	2100
42"	1050	90"	2250
48"	1200	96"	2400
54"	1350		

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: 9/11/2009

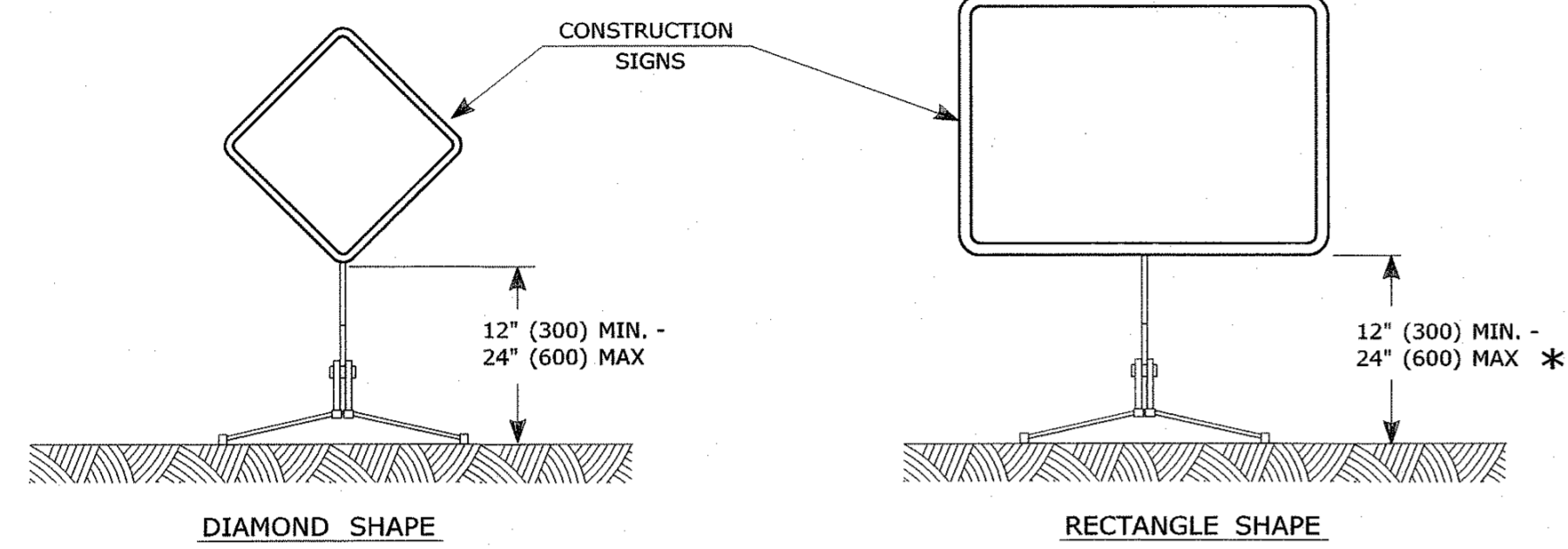
NOT TO SCALE

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1220_01

SUBMITTED BY: Charles S. Harlow 2009.09.11 14:58:43 -04'00'

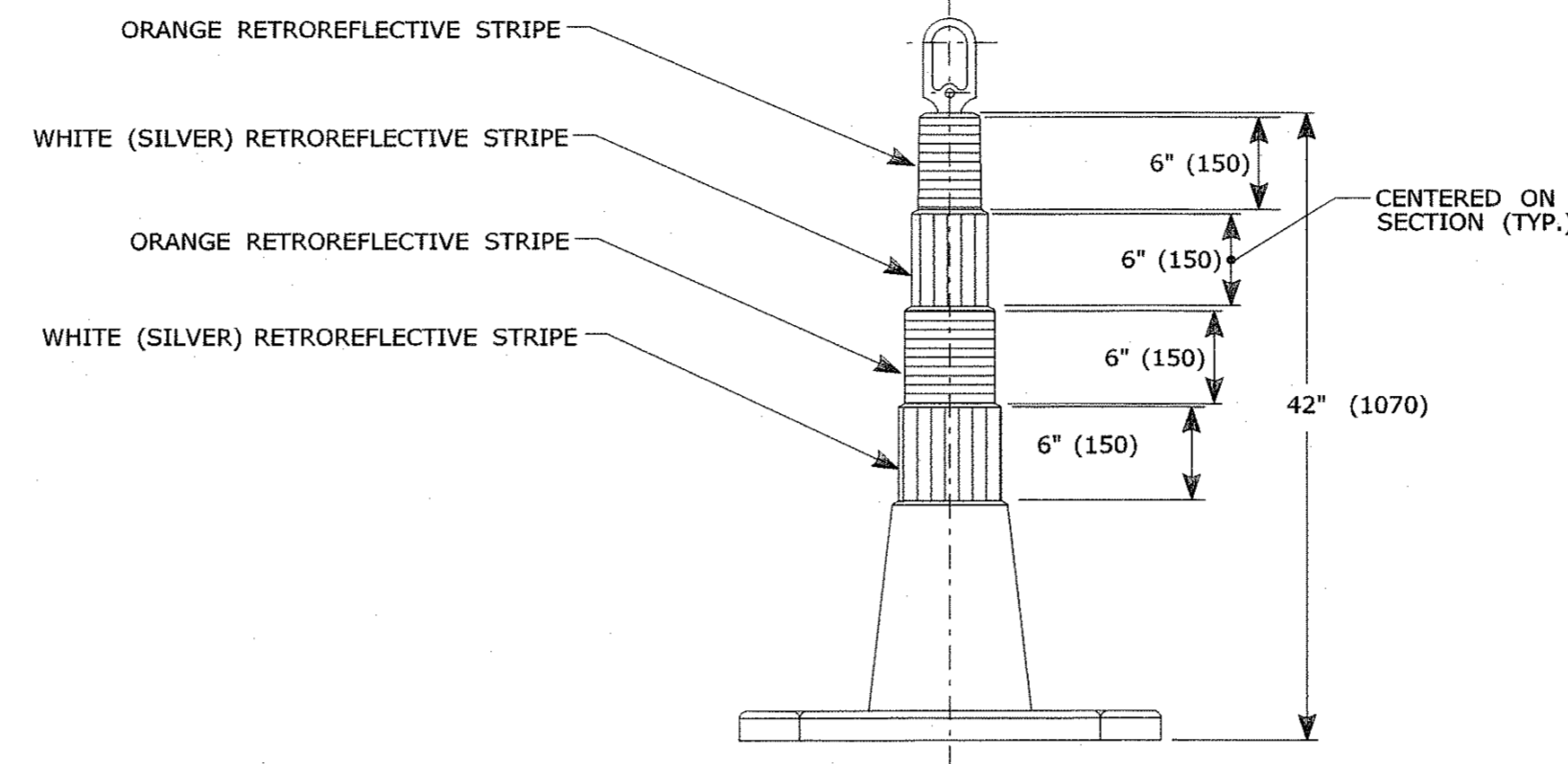
APPROVED BY: John F. Carey 2009.09.16 08:33:54 -04'00'



CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

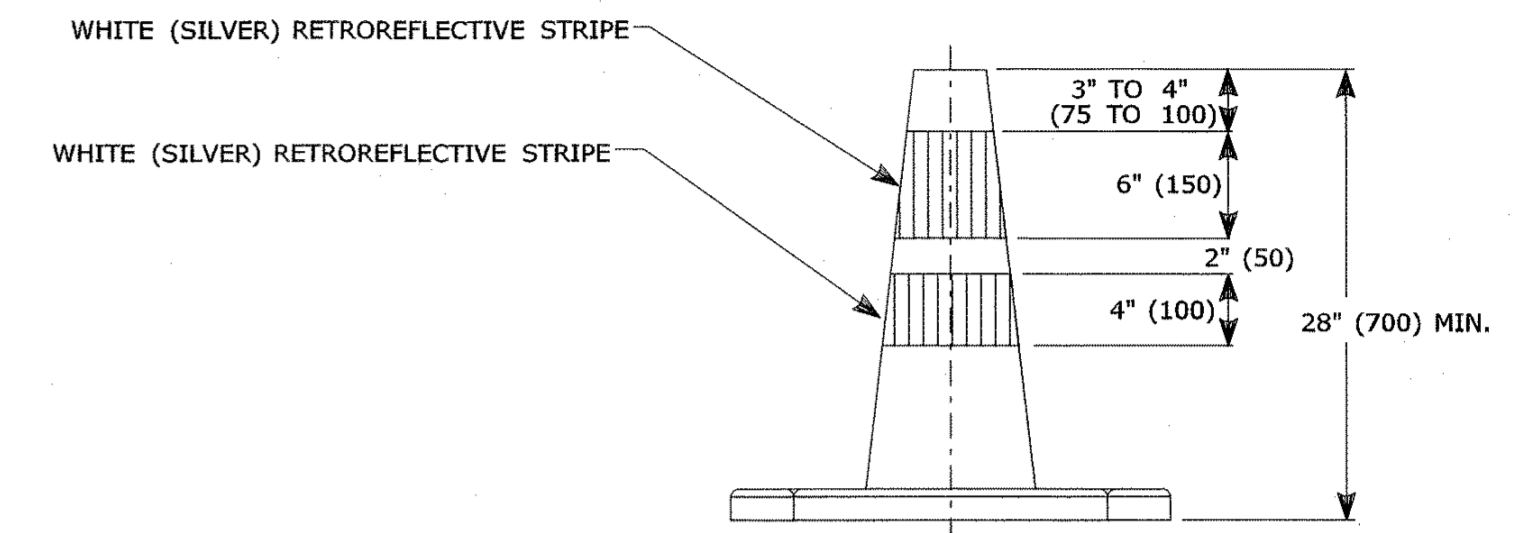
- SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
 - MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" (300) AND A MAXIMUM OF 24" (600). SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
 - THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
 - PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3).
- * FOR EXIT SIGNS, USE MIN. 72" (1800).



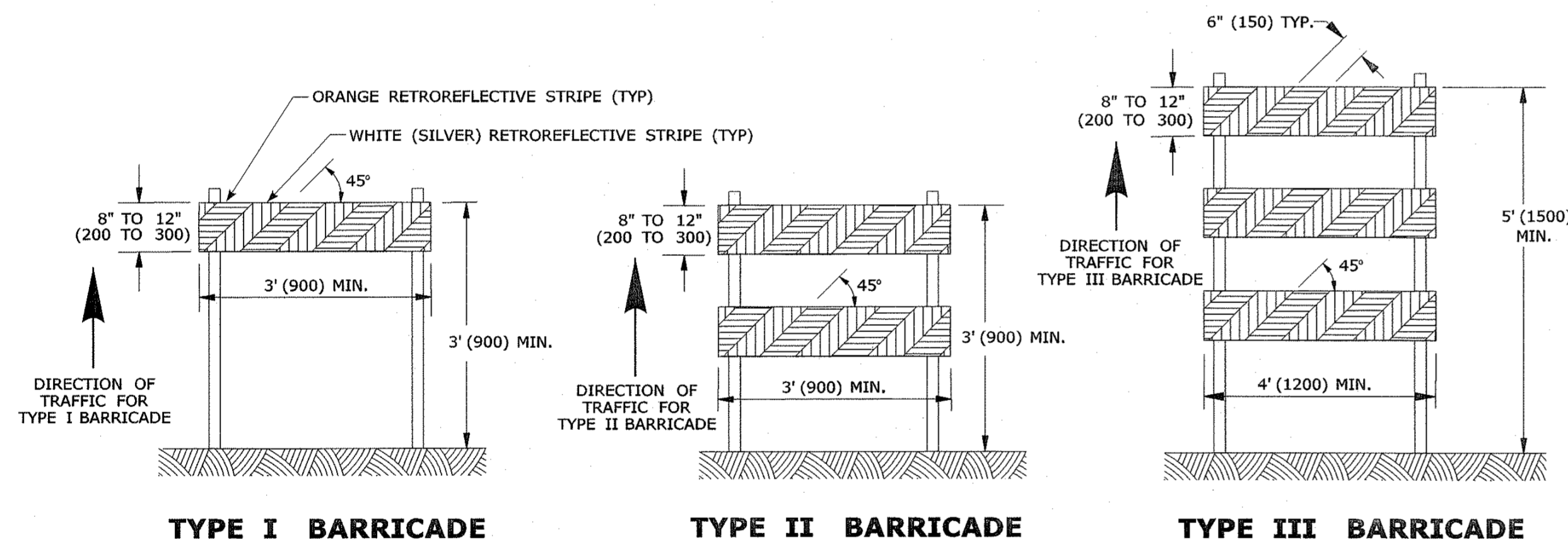
42" (1m) TRAFFIC CONE

NOTES:

- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.



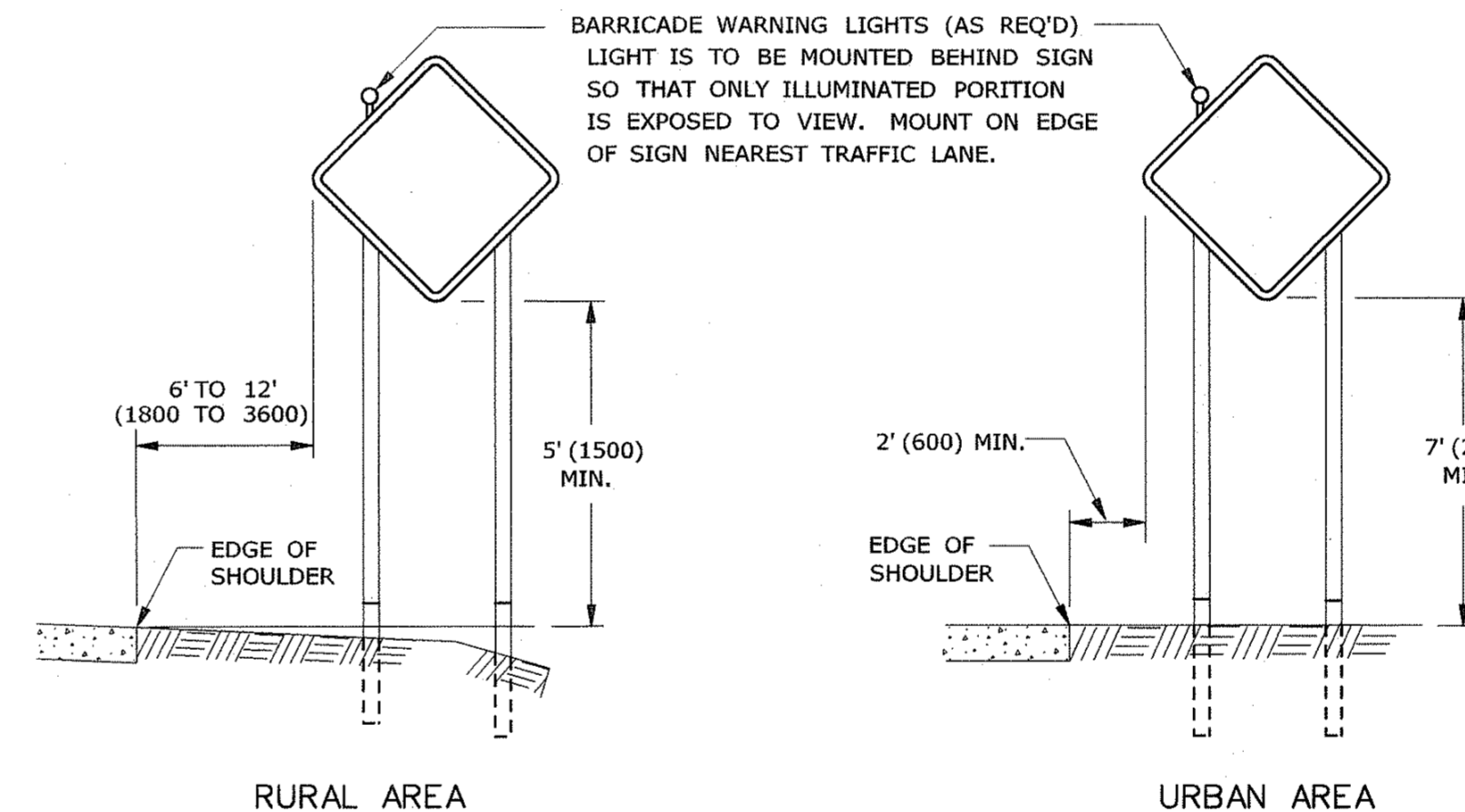
TRAFFIC CONE



CONSTRUCTION BARRICADES

NOTES:

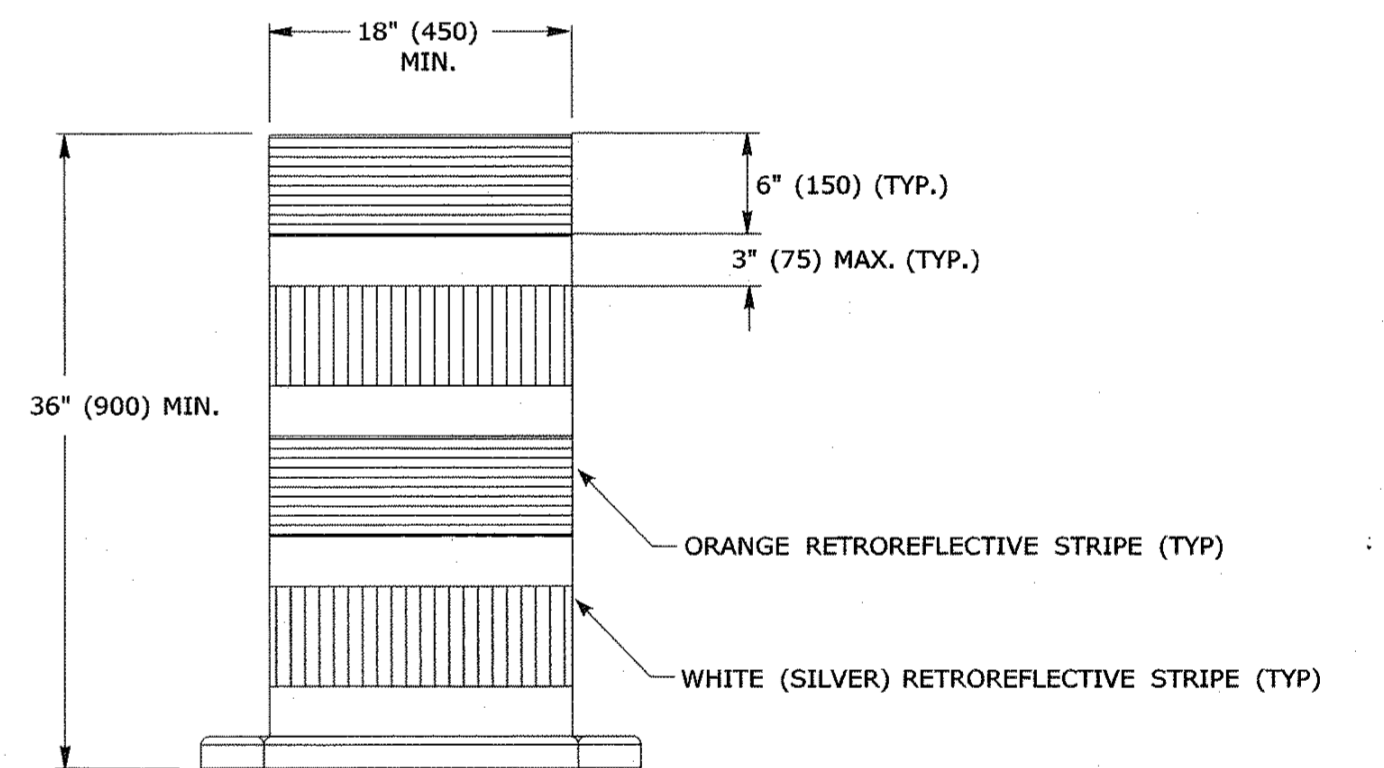
- CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
- MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" (150) WIDE STRIPES SHALL BE USED.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. RAILS FOR TYPE I AND TYPE II BARRICADES SHALL BE RETROREFLECTIVE ON BOTH SIDES. WHERE TRAFFIC PASSES ONLY IN ONE DIRECTION OF TRAVEL, ONLY THE SIDE FACING TRAFFIC SHALL BE RETROREFLECTIVE.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
- SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.



**PLACEMENT OF CONSTRUCTION SIGNS
TYPICAL LONG TERM INSTALLATION**

NOTES:

- SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.
SEE TYPICAL SHEETS:
"TYPICAL SIGN SUPPORT AND SIGN PLACEMENT DETAILS-GORE EXIT SIGN"
"TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS"

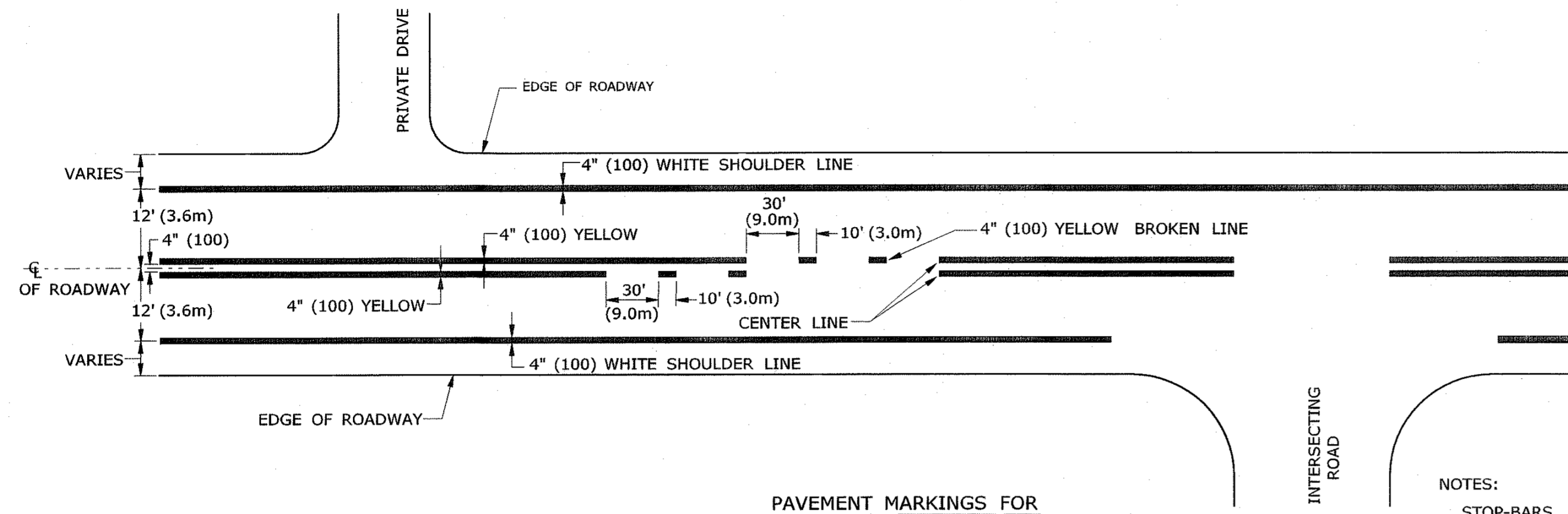


**TRAFFIC DRUM
FRONT VIEW**

NOTES:

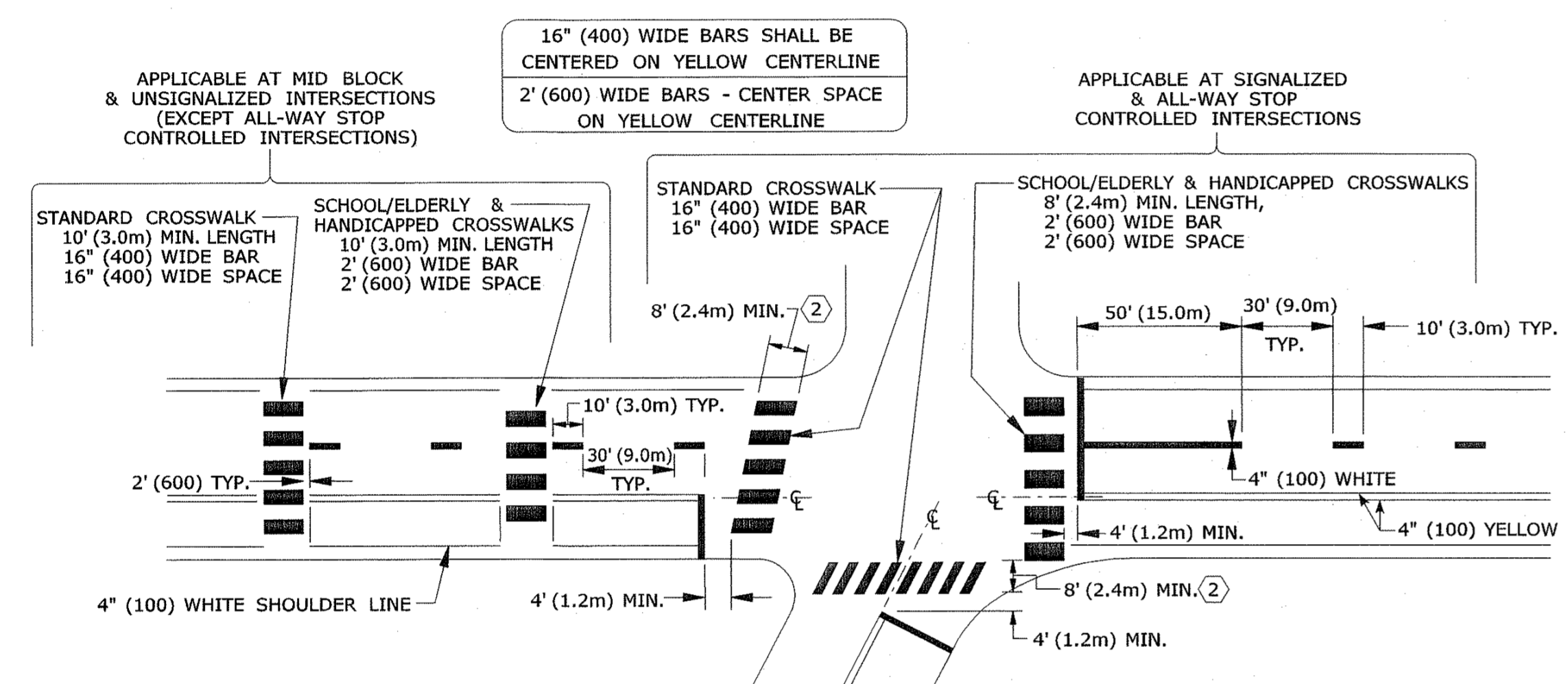
- TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

REV. DATE	REVISION DESCRIPTION	Plotted Date: 9/11/2009	NOT TO SCALE	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SUBMITTED BY: Charles S. Harlow NAME/DATE/TIME: Charles S. Harlow 2009.09.11 14:59:23 -04'00' APPROVED BY: John F. Carey NAME/DATE/TIME: John F. Carey 2009.09.16 08:34:26 -04'00'	STANDARD SHEET TITLE: CONSTRUCTION SIGN SUPPORTS & CHANNELIZING DEVICES	STANDARD SHEET NO.: TR-1220_02
Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1220_02			CTDOT STANDARD SHEET OFFICE OF ENGINEERING				



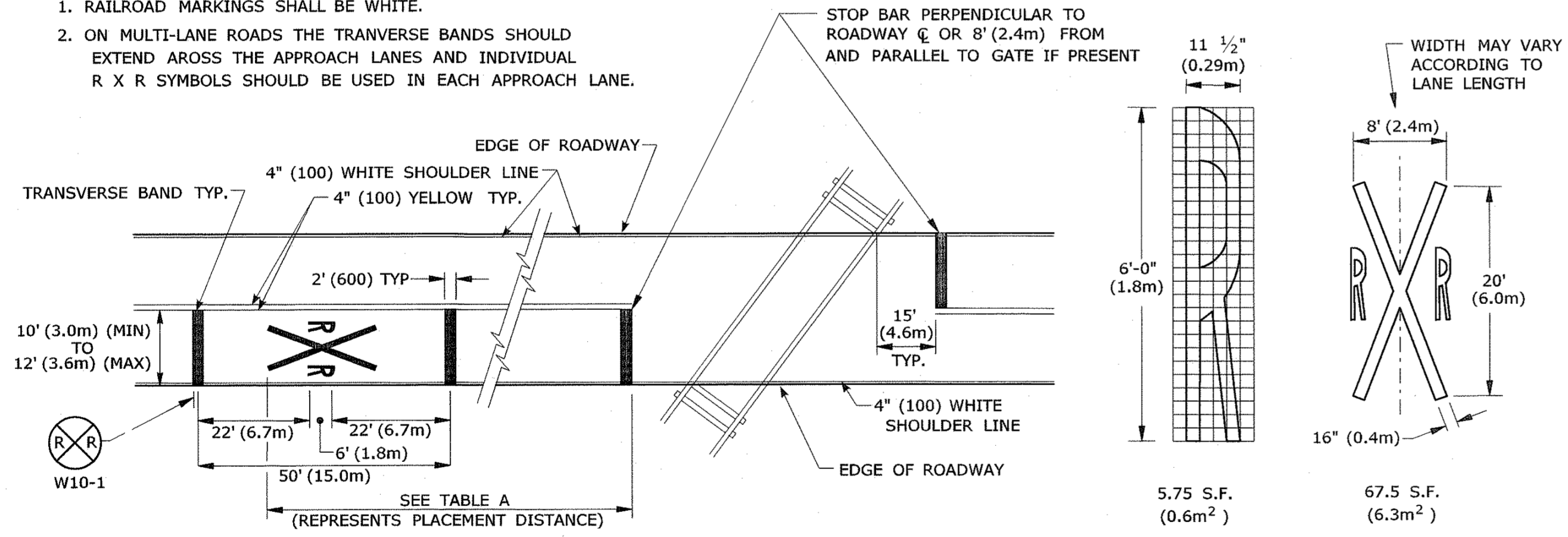
PAVEMENT MARKINGS FOR CENTERLINE AND SHOULDER LINE

- NOTES:
- STOP-BARS
- STOP BARS SHALL BE WHITE.
 - STOP BARS SHALL BE 12" (300) MIN. UNLESS OTHERWISE NOTED ON PLANS.
 - STOP BARS TO BE MARKED A MINIMUM OF 4' (1.2m) IN ADVANCE OF NEAREST EDGE OF CROSSWALK.
 - IN ABSENCE OF MARKED CROSSWALK THE STOP BAR SHALL BE PLACED AT THE DESIRED STOPPING POINT, NO MORE THAN 30' (9.0m) LESS THAN 5' (1.5m) FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY AND 90° TO THE CENTERLINE OF ROADWAY.
 - THE STOP BAR SHALL ORDINARILY BE PLACED IN LINE WITH THE STOP SIGN. HOWEVER, IF THE STOP SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO STOP, THE STOP BAR SHOULD BE PLACED AT THE STOPPING POINT.
 - STOP BARS AND CENTERLINE (WHEN SIDE STREET WIDTHS ARE 16' (4.8m) OR MORE) ARE TO BE MARKED ON SIDE STREETS WITHIN THE LIMITS OF CONSTRUCTION UNLESS, OTHERWISE INDICATED, OR AS DIRECTED BY THE ENGINEER.



PAVEMENT MARKINGS FOR STOP BARS AND CROSSWALKS

- NOTES:
- RAILROAD GRADE CROSSINGS
- RAILROAD MARKINGS SHALL BE WHITE.
 - ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS THE APPROACH LANES AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

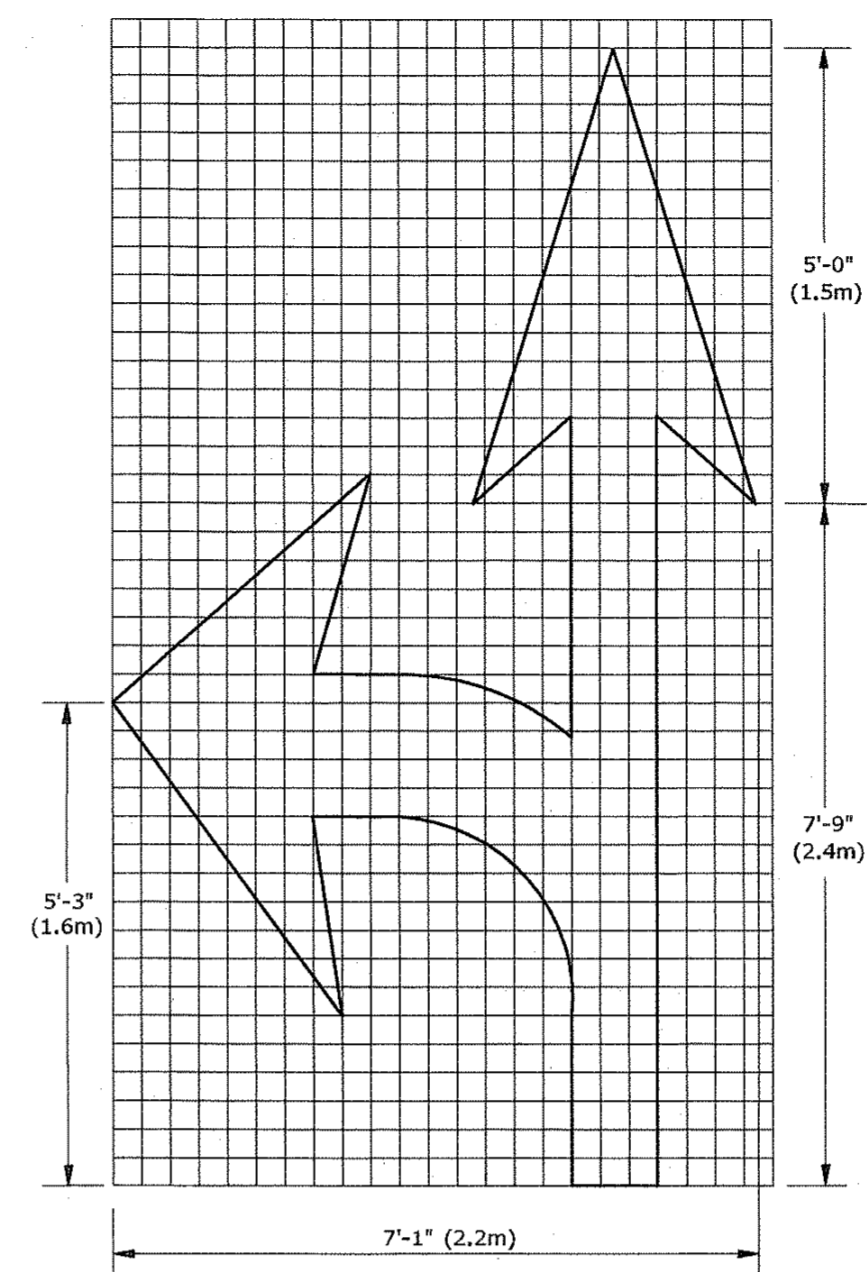


PAVEMENT MARKINGS FOR RAILROAD GRADE CROSSINGS

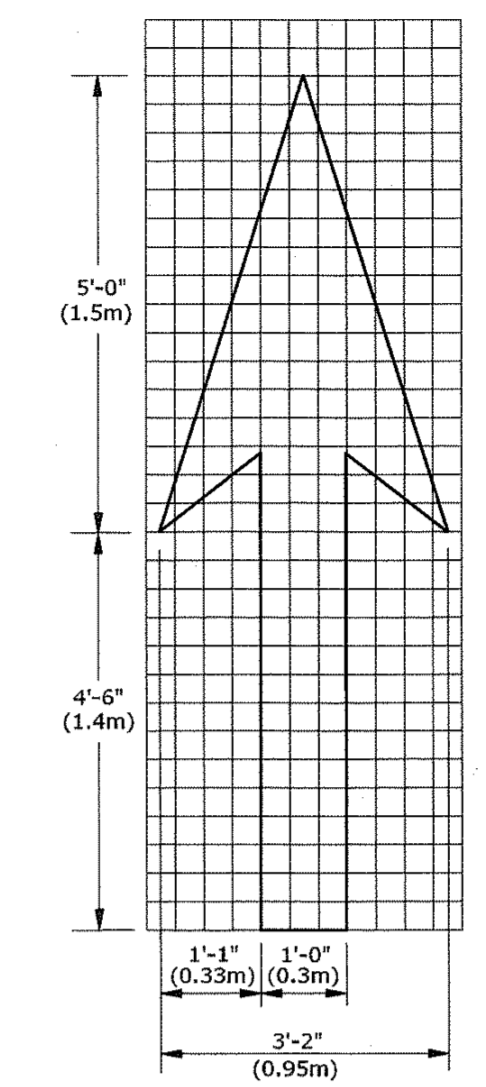
TABLE A

POSTED OR 85 PERCENTILE SPEED M.P.H.	DISTANCE FT. (m)
20	*
25	*
30	100 (30)
35	150 (46)
40	225 (69)
45	300 (91)
50	375 (114)
55	450 (137)
60	550 (168)
65	650 (198)

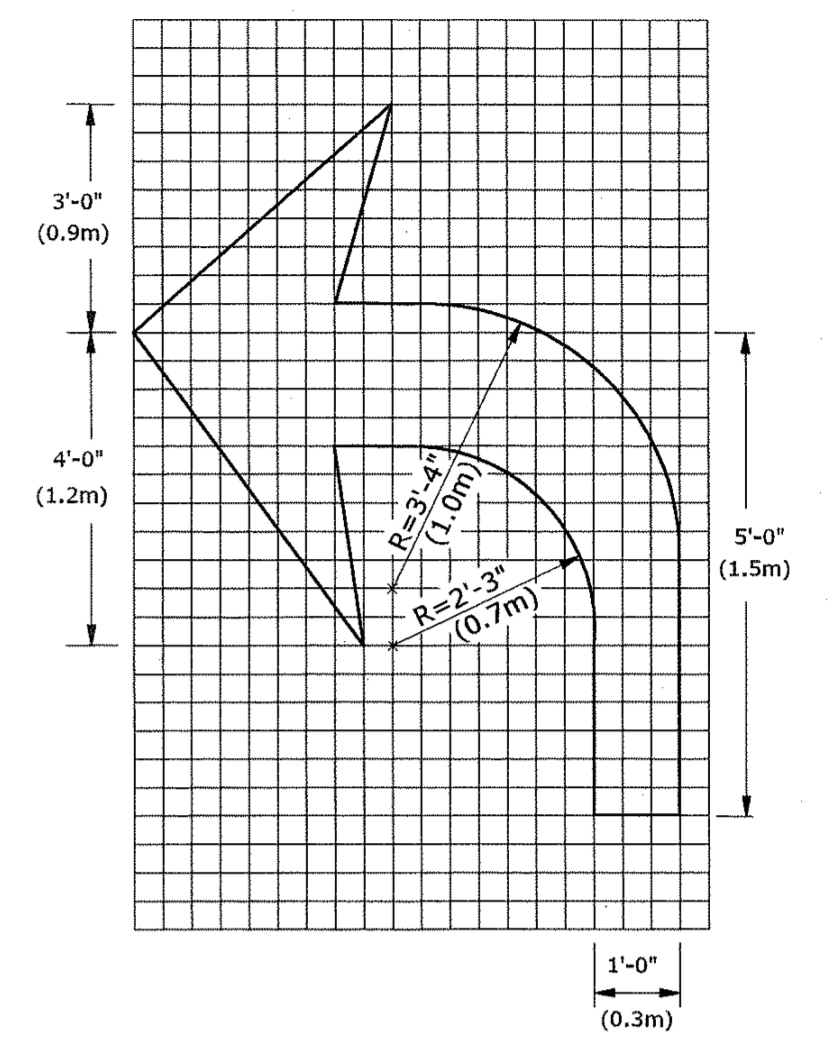
* NO SUGGESTED MINIMUM DISTANCE, AT THESE SPEEDS, SIGN LOCATION DEPENDS ON PHYSICAL CONDITIONS AT SITE, HOWEVER SHOULD NOT BE LESS THAN 50' (15m).



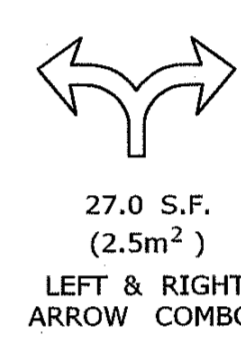
REFER TO ADJACENT VIEWS FOR DIMENSIONING



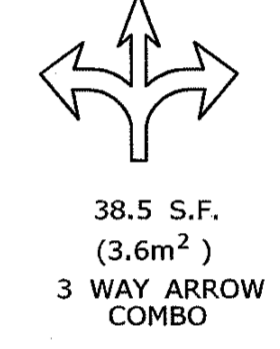
12.5 S.F. (1.2m²)



15.5 S.F. (1.4m²)

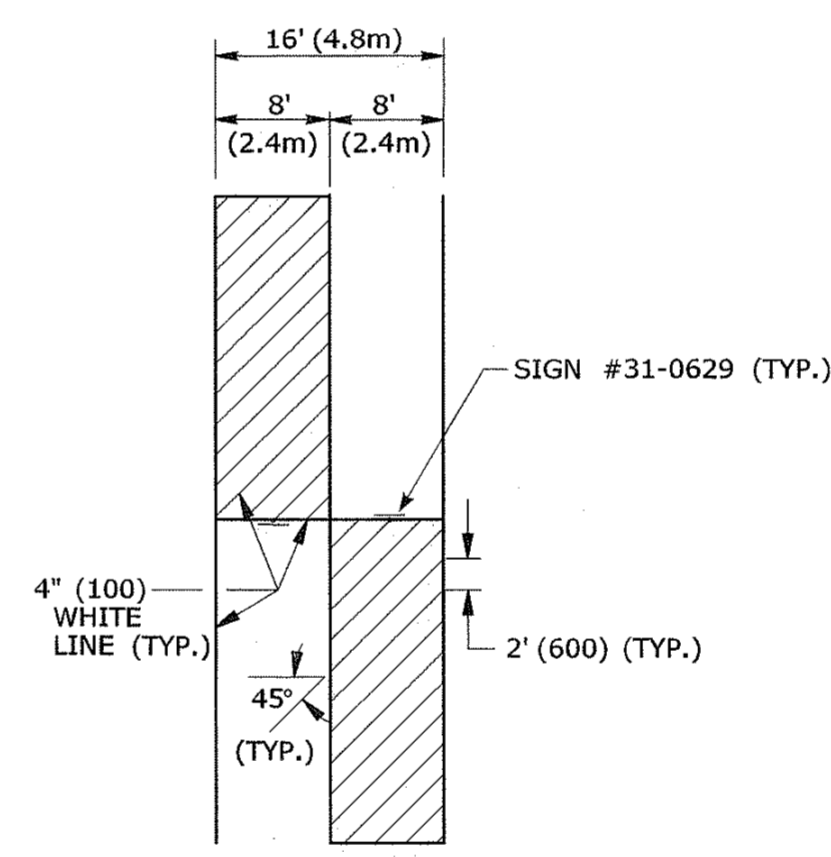


27.0 S.F. (2.5m²)
LEFT & RIGHT ARROW COMBO

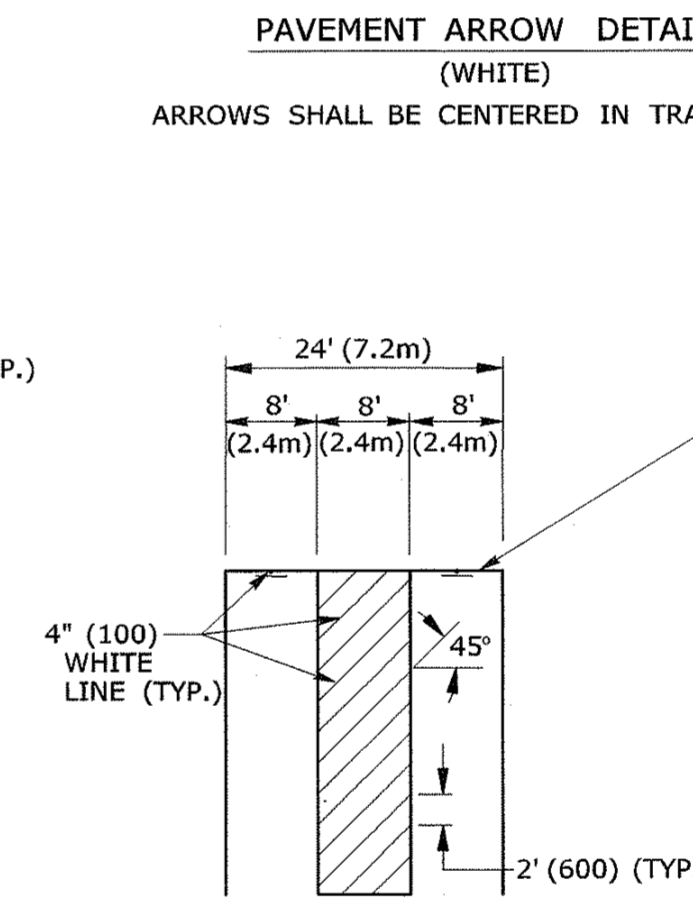


38.5 S.F. (3.6m²)
3 WAY ARROW COMBO

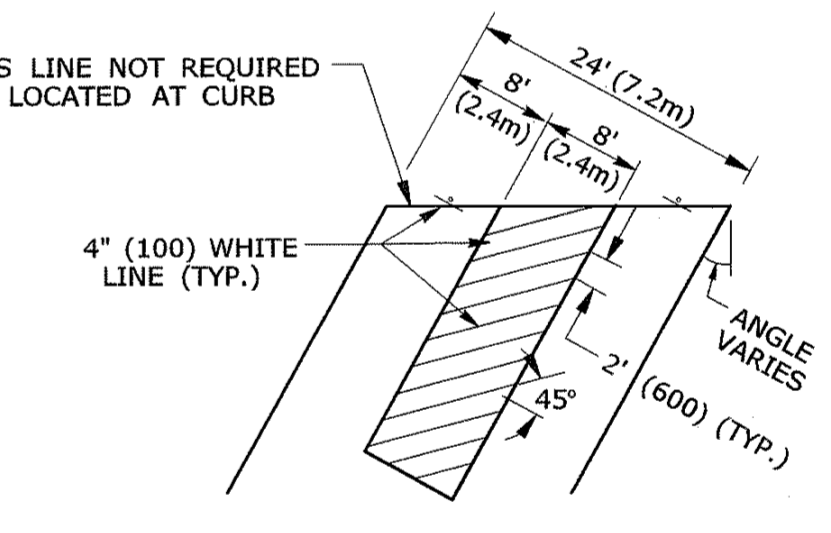
- CROSSWALKS
- CROSSWALK MARKINGS SHALL BE WHITE.
 - AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO ϕ AND ENDS OF BARS TO BE PARALLEL. THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW.
 - SCRAMBLE WALKS TO BE MARKED WITH ONE 24" WIDE LINE ACROSS EACH APPROACH.
 - BARS SHALL NORMALLY BE NO CLOSER THAN 2' FROM CURB LINE/EDGE OF ROAD, WHERE EXCESS SPACE MAY DEVELOP THIS DISTANCE MAY BE DECREASED TO 1'.
 - ONLY FULL LENGTH BARS ARE TO BE INSTALLED AT CORNERS.



(PIGGY BACK STYLE)



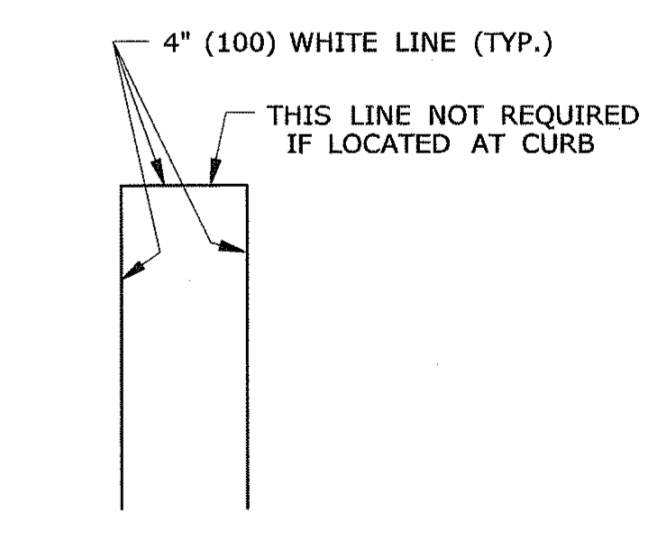
(SIDE BY SIDE STYLE) (SHARED AISLE)



(ANGLED SIDE BY SIDE STYLE) (SHARED AISLE)

PARKING STALLS FOR HANDICAPPED

- NOTES:
- PAVEMENT MARKING
- FOR PAVEMENT MARKINGS ON A CLIMBING LANE SEE DETAIL "H", ON TRAFFIC TYPICAL SHEET "TYPICAL PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS".
 - AREA OF PAVEMENT MARKINGS AS INDICATED IS APPROXIMATE.
 - EXIT RAMP PAVEMENT ARROW SHOULD BE BETWEEN THE GORE AND THE FIRST SET OF WRONG WAY SIGNS. THE EXACT LOCATION TO BE DETERMINED BY THE ENGINEER FOR THE OPTIMUM VISIBILITY (CONSIDER RAMP CURVATURE AND PROFILE).
 - EXIT RAMP PAVEMENT ARROW TO BE OMITTED IF LANE USE CONTROLS ARE USED, UNLESS OTHERWISE SPECIFIED.
 - RIGHT TURN PAVEMENT MARKINGS ARROWS ARE MIRROR IMAGE OF LEFT TURN PAVEMENT MARKING ARROWS.
 - SHARED AISLES MAY NOT BE USED WHERE CONNECTICUT BUILDING CODE GOVERNS



STANDARD PARKING STALL

REV.	DATE	REVISION DESCRIPTION

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: 9/11/2009

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1210.03

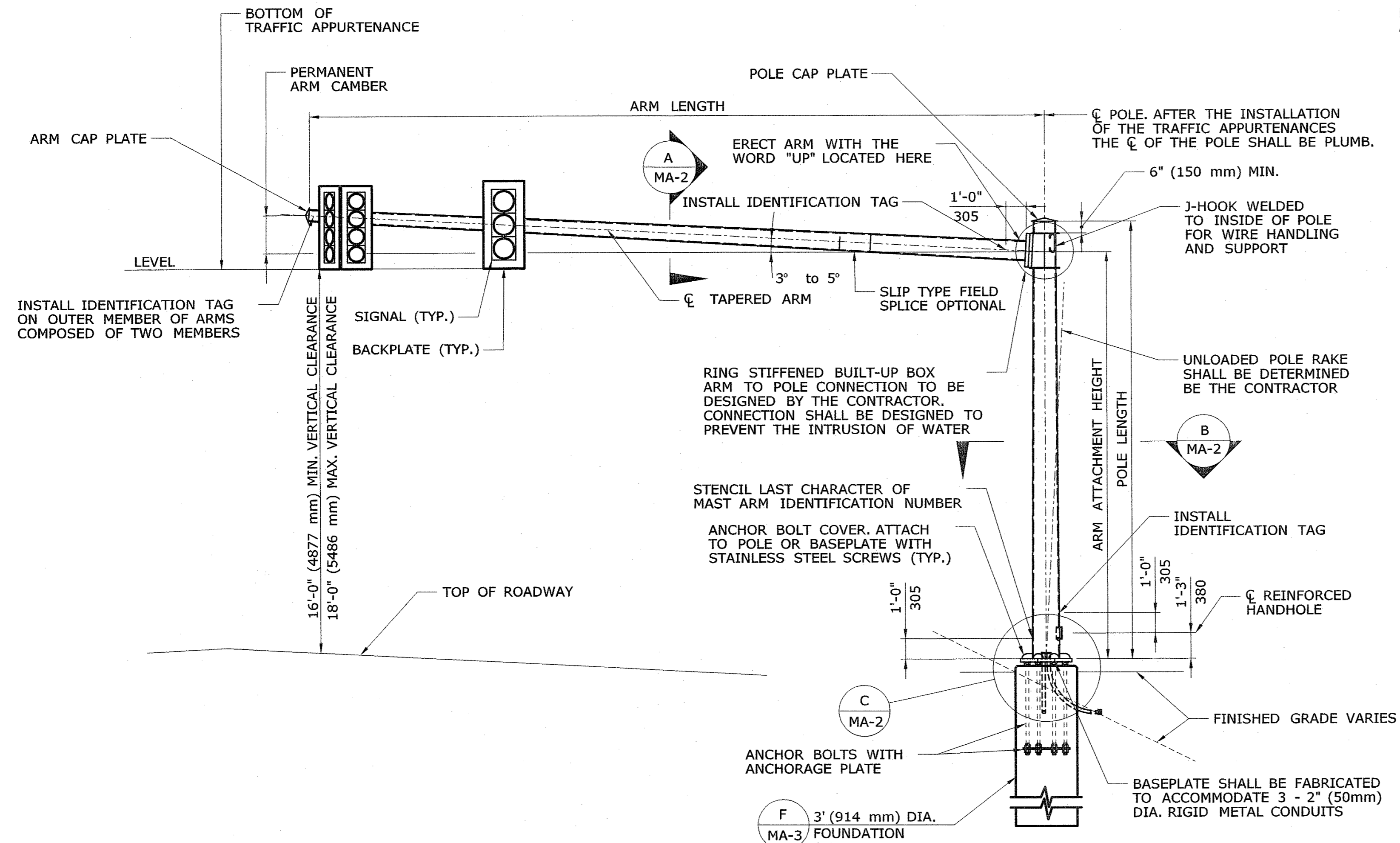
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NAME/DATE/TIME: Charles S. Harlow 2009.09.11 14:57:57 -04'00'

APPROVED BY: John F. Carey
NAME/DATE/TIME: John F. Carey 2009.09.16 08:32:41 -04'00'

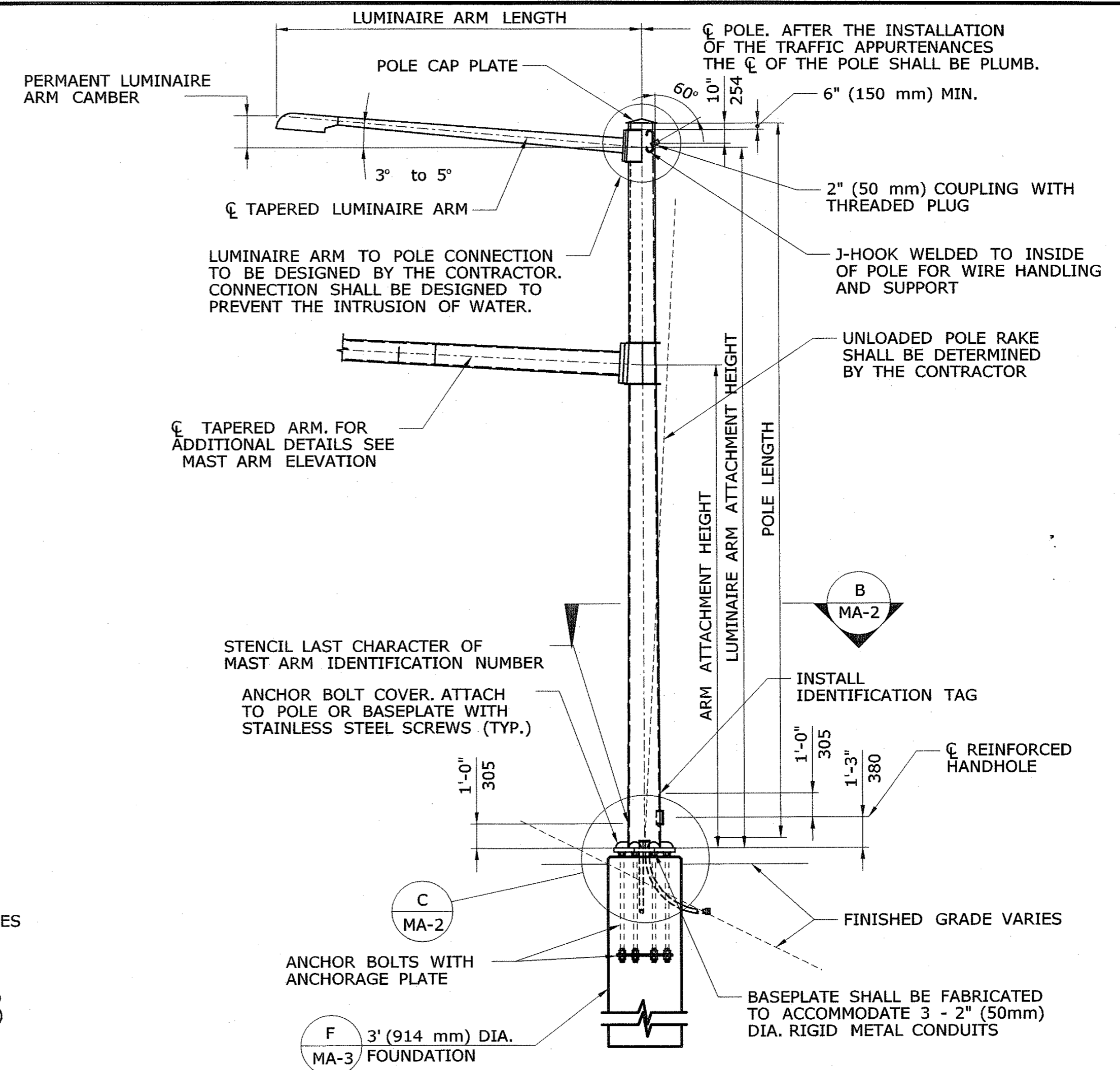
CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
SPECIAL DETAILS AND PAVEMENT MARKINGS FOR TWO-WAY HIGHWAYS

STANDARD SHEET NO.:
TR-1210_03



**ELEVATION
MAST ARM**
SCALE: 1/4" = 1'-0"



**ELEVATION
COMBINATION MAST ARM**
SCALE: 1/4" = 1'-0"

MAST ARM ASSEMBLY NOTES

THE MAST ARM, INCLUDING THE ANCHORAGE TO THE FOUNDATION, SHALL BE DESIGNED, FABRICATED AND INSTALLED BY THE CONTRACTOR, OF THE SPAN SPECIFIED, IN ACCORDANCE WITH THE SPECIAL PROVISION "XX STEEL MAST ARM ASSEMBLY" OR "XX STEEL COMBINATION MAST ARM ASSEMBLY".

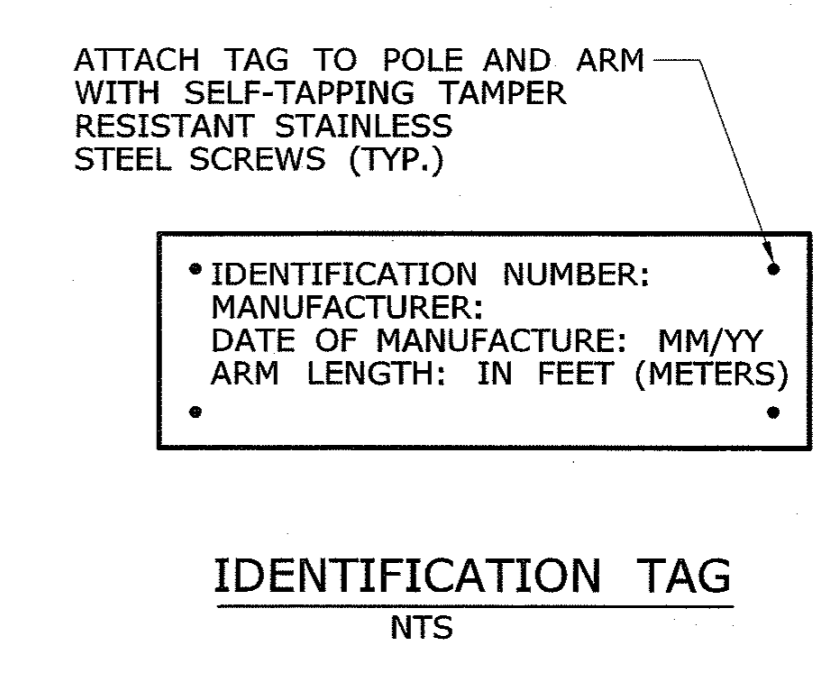
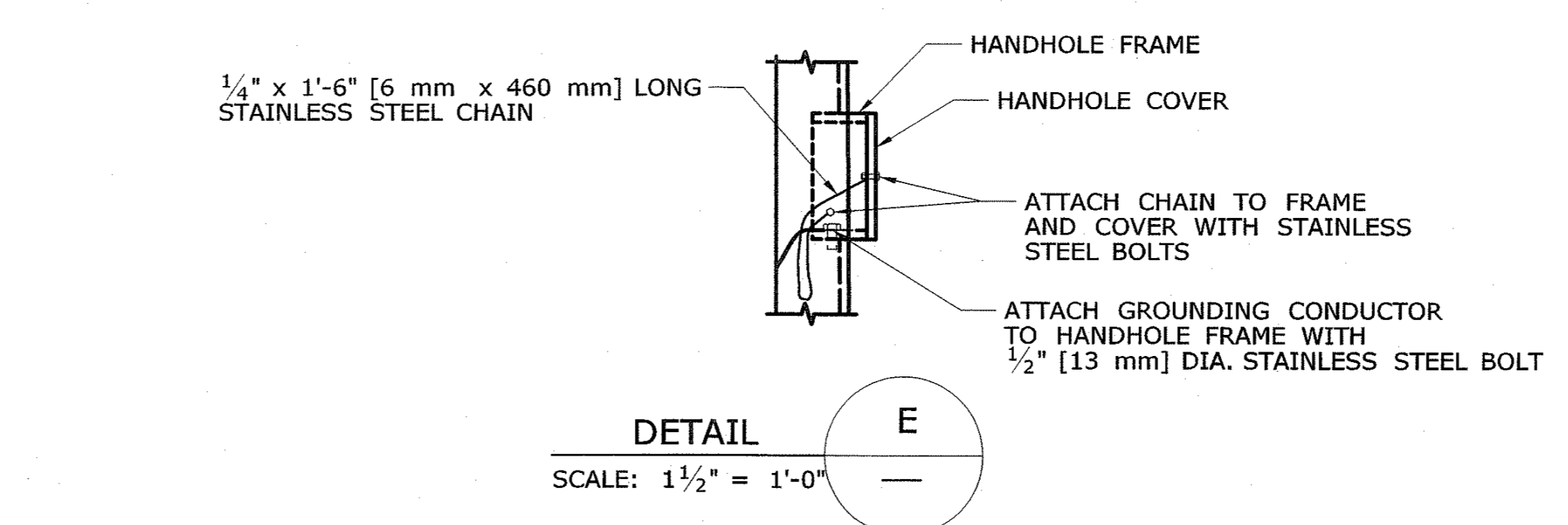
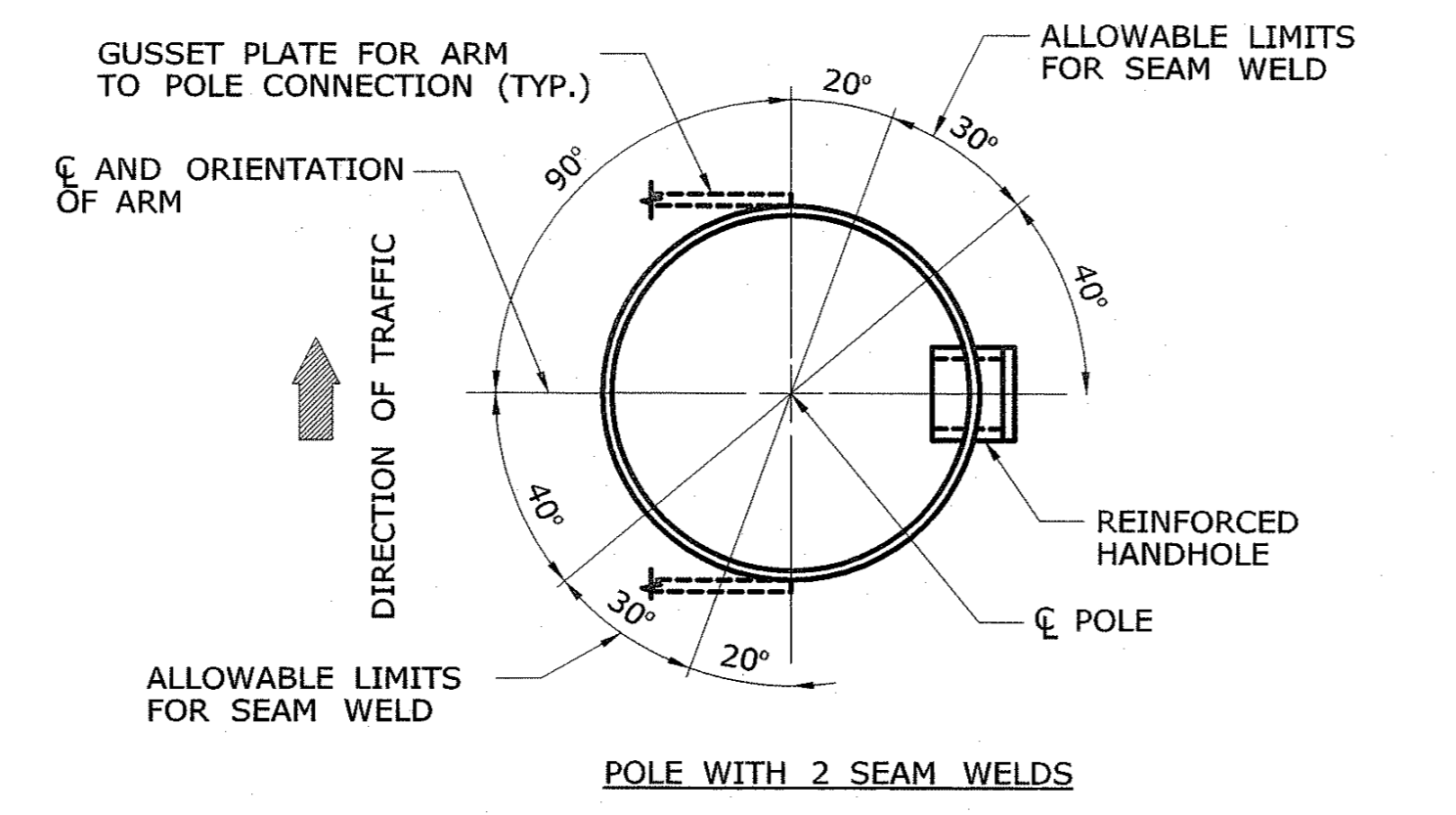
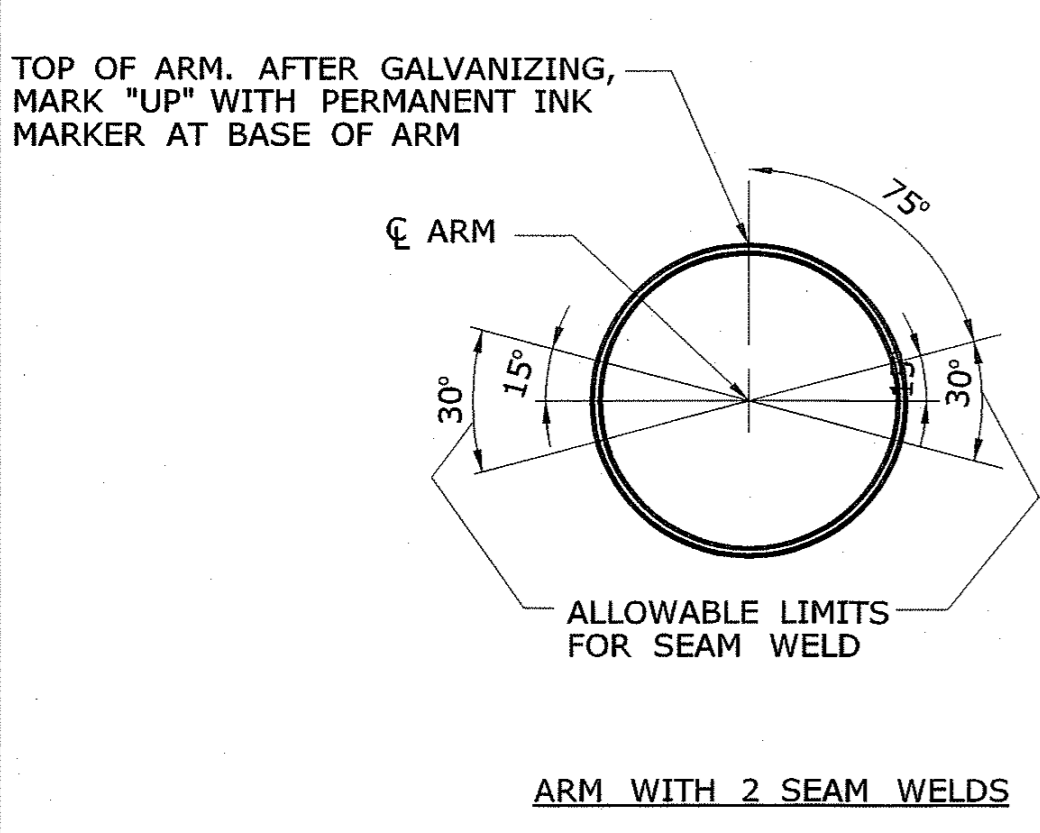
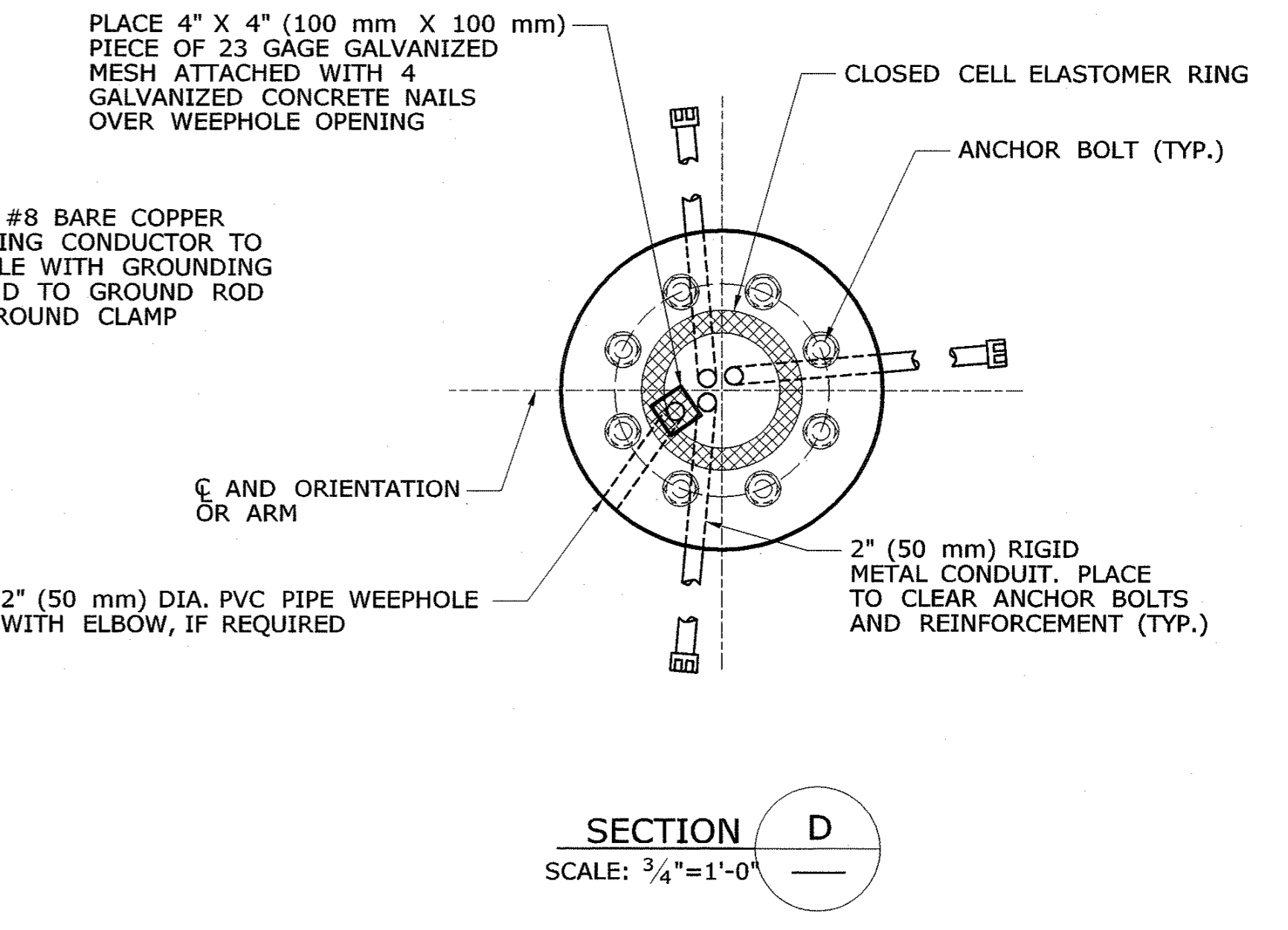
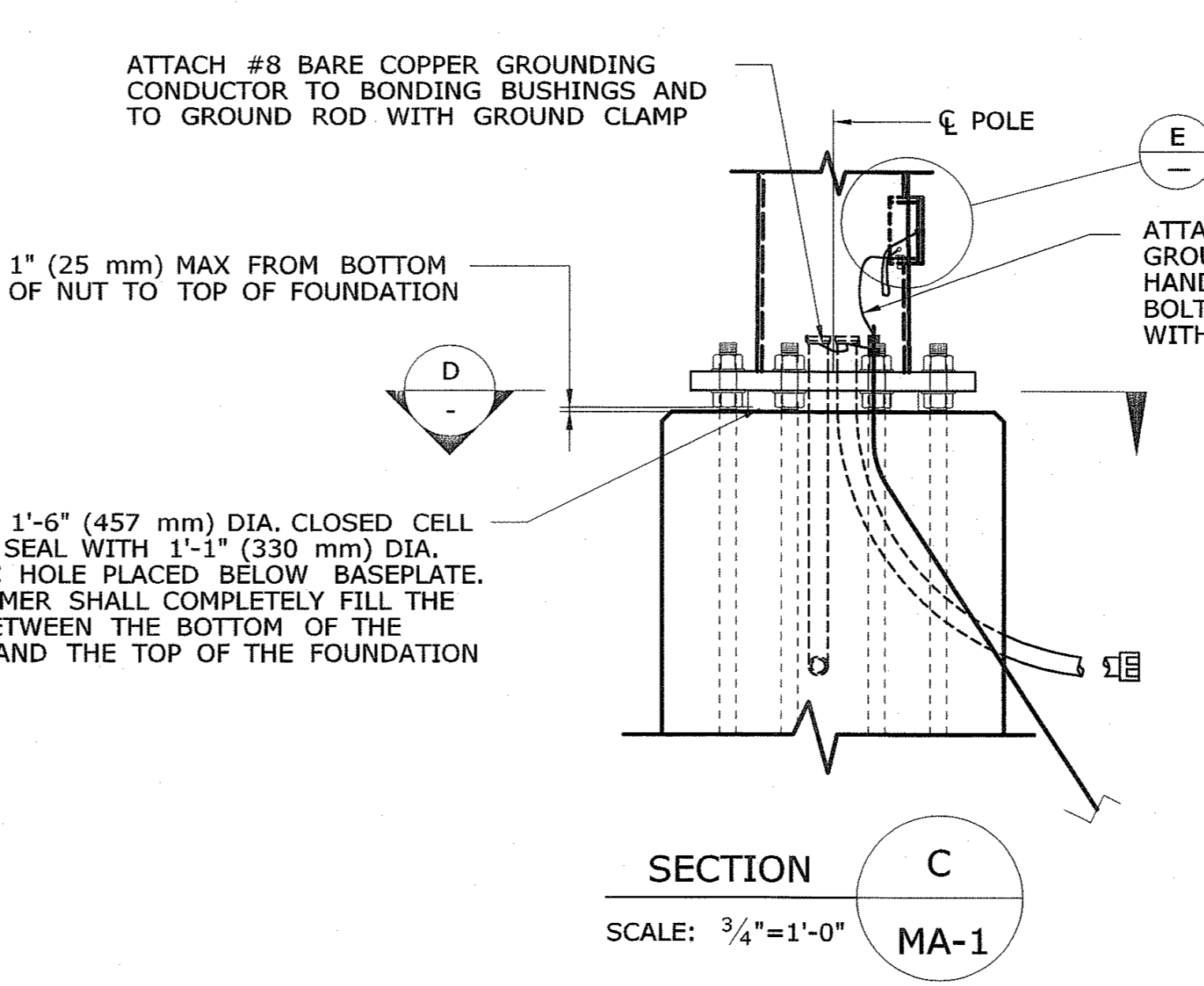
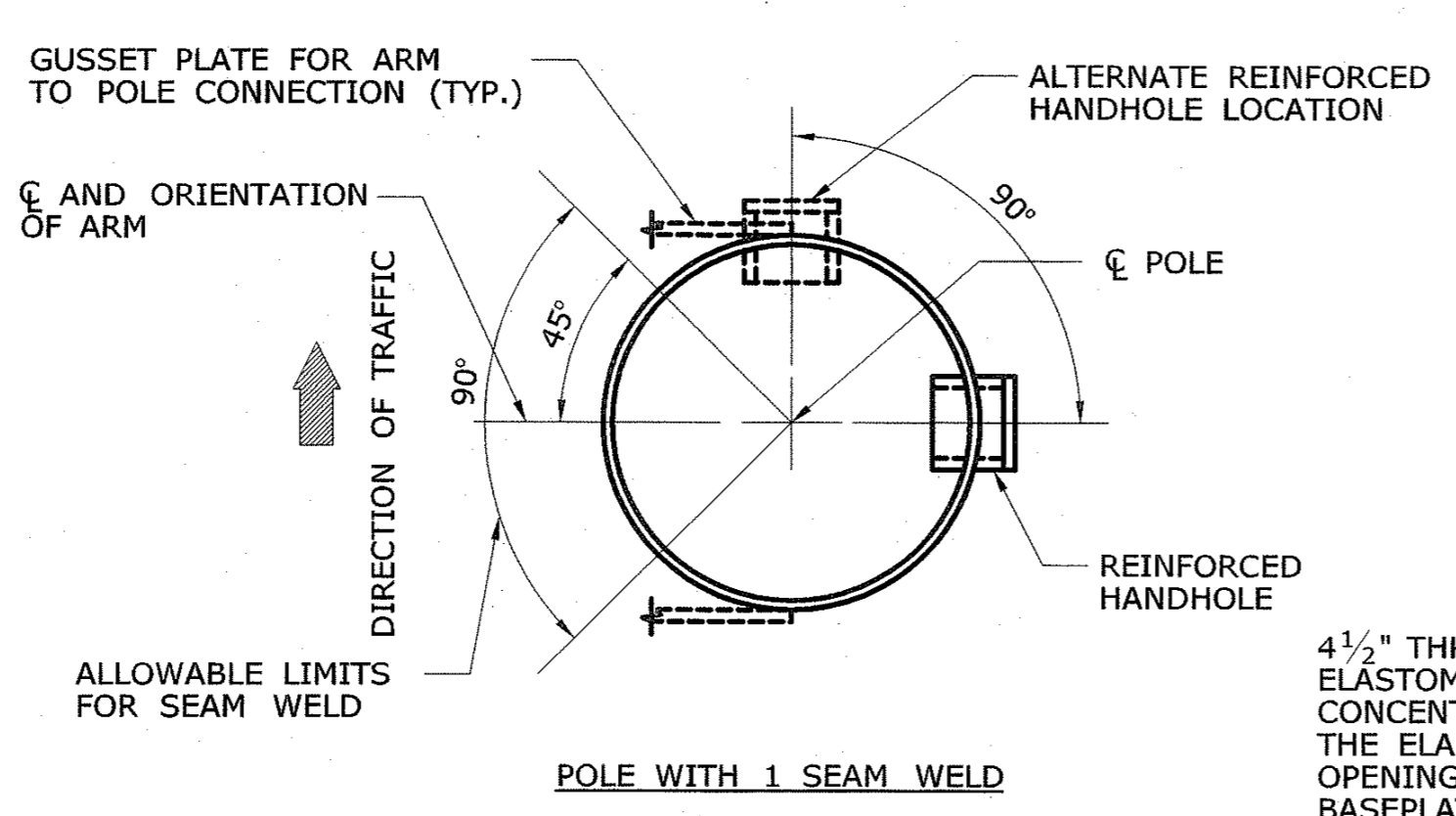
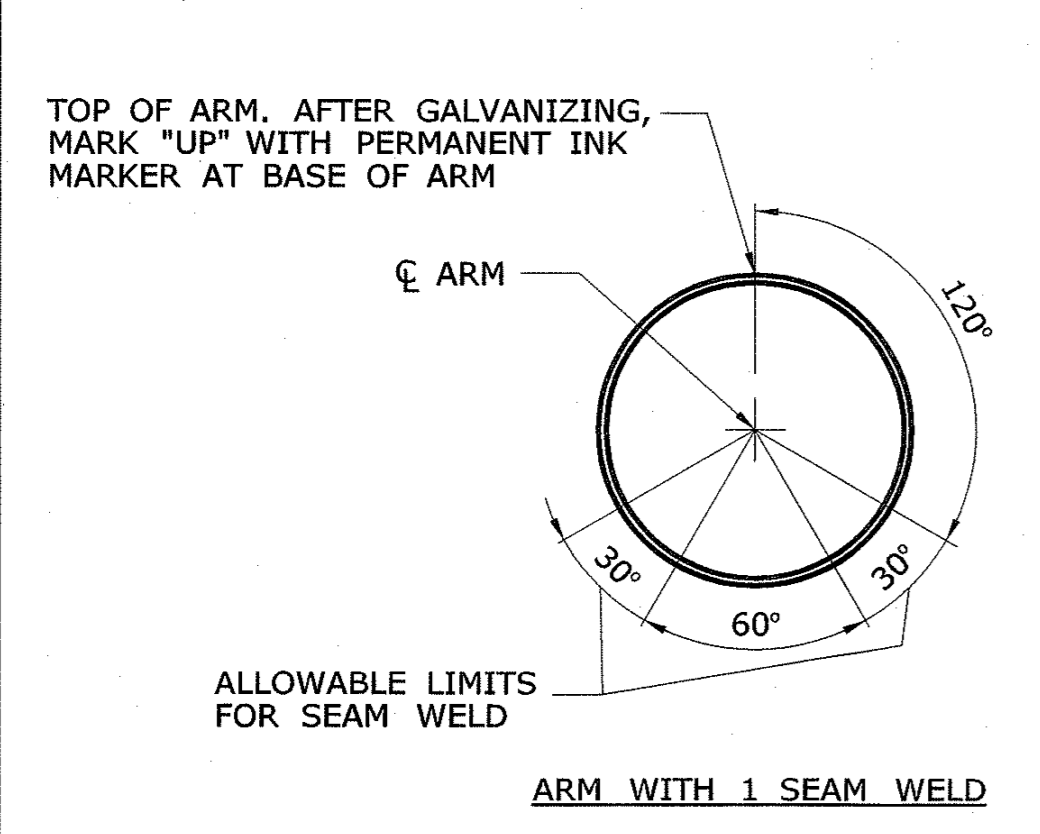
THE DIMENSIONS OF THE MAST ARM ASSEMBLY AND DETAILS OF THE TRAFFIC APPURTENANCES SUPPORTED BY THE MAST ARM ASSEMBLY ARE SHOWN ON THE TRAFFIC SIGNAL PLANS, ELEVATIONS, CROSS-SECTIONS OR IN THE SPECIAL PROVISIONS. THE ARM AND POLE LENGTHS AND THE ATTACHMENT HEIGHTS SHALL BE VERIFIED BY THE CONTRACTOR BASED ON THE FINISHED GRADE AT THE SITE, TOP OF FOUNDATION ELEVATION, THE LOCATIONS OF OVERHEAD UTILITY CABLES AND THE TRAFFIC APPURTENANCE MOUNTING HEIGHTS. IF EITHER THE ARM OR POLE LENGTH IS INADEQUATE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

THE MAST ARMS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, INCLUDING THE LATEST INTERIM SPECIFICATIONS, AS AMENDED BY THE AS SPECIAL PROVISION "XX STEEL MAST ARM ASSEMBLY" OR "XX STEEL COMBINATION MAST ARM ASSEMBLY".

THE MAST ARM SHALL BE DESIGNED FOR THE LOAD EFFECTS DUE TO THE ACTUAL TRAFFIC APPURTENANCES (SIGNALS, SIGNS, LUMINAIRES, CAMERAS, ETC.). THE MAST ARMS SHALL ALSO BE DESIGNED FOR THE EFFECTS OF TRAFFIC APPURTENANCES DURING ALL STAGES OF CONSTRUCTION THAT MAY EXIST DURING THE PROJECT UNDER WHICH THE MAST ARMS ARE INSTALLED.

THE MAST ARMS SHALL BE DESIGNED TO SUPPORT TRAFFIC APPURTENANCES WITH PROPERTIES NO LESS THAN THOSE SHOWN IN THE TABLE ENTITLED "TRAFFIC APPURTENANCE PROPERTIES - MINIMUM DESIGN VALUES".

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: CHECKED BY: SCALE AS NOTED	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION <small>Filename: ...XXXXXX.SB-MastArm_MAL.Elev.dgn</small>	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING APPROVED BY: _____ DATE: _____	PROJECT TITLE: TOWN: _____	PROJECT NO.: _____ DRAWING NO.: MA-1 SHEET NO.: _____
REV. DATE REVISION DESCRIPTION SHEET NO.	Plotted Date: 4/14/2010	DRAWING TITLE: MAST ARM ASSEMBLY ELEVATION				



SECTION A
SCALE: 1 1/2" = 1'-0"
MA-1

SECTION B
SCALE: 1 1/2" = 1'-0"
MA-1

TRAFFIC APPURTENANCE PROPERTIES
MINIMUM DESIGN VALUES

	2'-0" 610	2'-0" 610	2'-0" 610	3'-2" 965	WIDTH HEIGHT
					SHEET ALUMINUM SIGN PANEL
	3 SECTION, 12" (305) DIA. TRAFFIC SIGNAL W/ BACKPLATE	4 SECTION, 12" (305) DIA. TRAFFIC SIGNAL W/ BACKPLATE	5 SECTION, 12" (305) DIA. TRAFFIC SIGNAL W/ BACKPLATE	5 SECTION, 12" (305) DIA. TRAFFIC SIGNAL W/ BACKPLATE	
WEIGHT, INCLUDING MOUNTING HARDWARE	65 LBS (29.48 kg)	80 LBS (36.29 kg)	95 LBS (43.09 kg)	105 LBS (47.63 kg)	4 LBS/SQ.FT. (19.53 kg/m ²)
TOTAL SURFACE AREA	28.04 SQ. FT. (2.61 m ²)	35.46 SQ. FT. (3.29 m ²)	45.16 SQ. FT. (4.20 m ²)	41.04 SQ. FT. (3.81 m ²)	BASED ON PANEL DIMENSIONS
PROJECTED AREA, FRONT FACE	8.62 SQ. FT. (0.80 m ²)	10.91 SQ. FT. (1.01 m ²)	13.34 SQ. FT. (1.24 m ²)	13.72 SQ. FT. (1.28 m ²)	BASED ON PANEL DIMENSIONS
PROJECTED AREA, BOTTOM FACE	1.18 SQ. FT. (0.11 m ²)	1.18 SQ. FT. (0.11 m ²)	1.18 SQ. FT. (0.11 m ²)	2.58 SQ. FT. (0.24 m ²)	BASED ON PANEL DIMENSIONS

NOTES:

THE TABULATED VALUES ARE THE MINIMUM VALUES THAT SHALL BE USED FOR THE DESIGN.

MAST ARMS SHALL BE DESIGNED ASSUMING ALL TRAFFIC SIGNALS ARE COMPOSED OF 12" (305 mm) DIAMETER SECTIONS WITH BACKPLATES.

THE PROJECTED FRONT FACE AREA IS IN A PLANE PARALLEL TO THE PLANE FORMED BY THE ARM AND THE POLE.

IF MULTIPLE APPURTENANCES ARE ATTACHED AT THE SAME LOCATION, THE MINIMUM DESIGN VALUE SHALL BE NO LESS THAN THE SUM OF THE CORRESPONDING TRAFFIC APPURTENANCE PROPERTIES.

FOR TRAFFIC APPURTENANCES NOT SHOWN, THE PROPERTIES SHALL BE DETERMINED BY THE CONTRACTOR AND SUBMITTED FOR REVIEW WITH THE WORKING DRAWING SUBMITTAL.

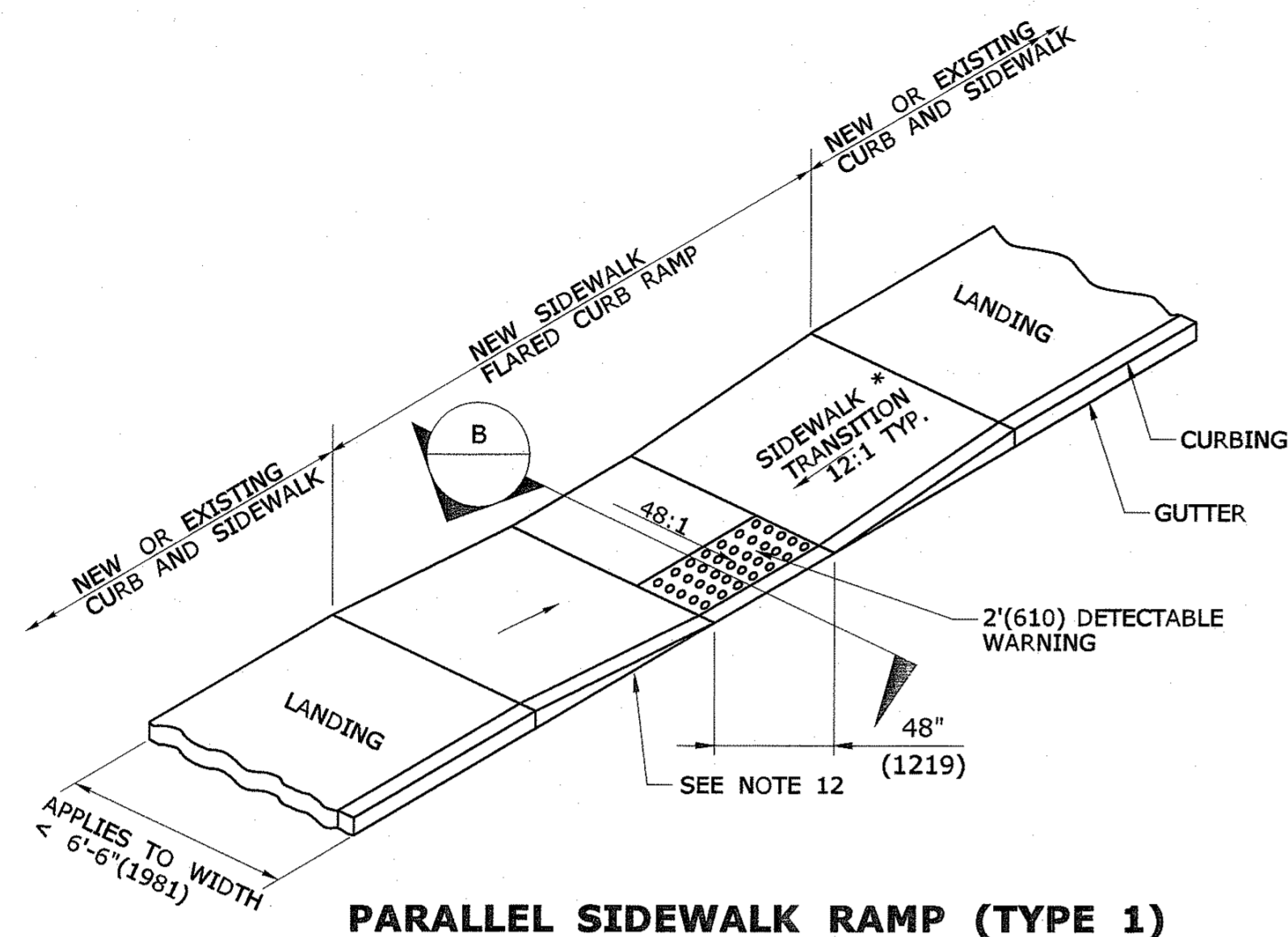
DESIGNER/DRAFTER: -	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SIGNATURE/ BLOCK: -	PROJECT TITLE: -	TOWN: -	PROJECT NO. -
CHECKED BY: -		OFFICE OF ENGINEERING	APPROVED BY: -	DATE: -	DRAWING NO. MA-2
REV. DATE	REVISION DESCRIPTION	SHEET NO.	DRAWING TITLE: MAST ARM ASSEMBLY DETAILS		SHEET 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.

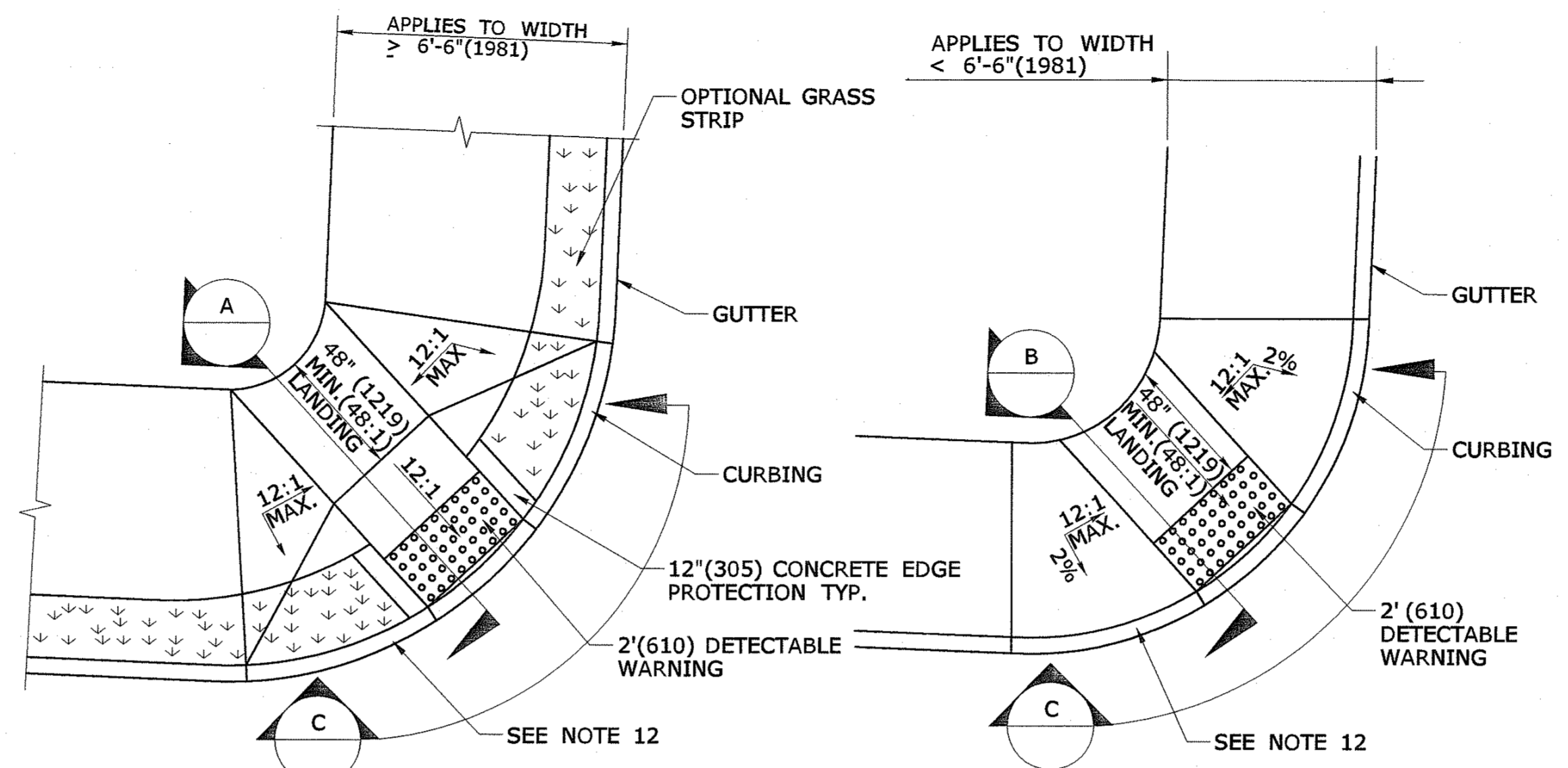
Plotted Date: 4/14/2010

SCALE AS NOTED

Filename: ...XXXXXXX.SB_MastArm_MAL_Elev.dgn



PARALLEL SIDEWALK RAMP (TYPE 1)

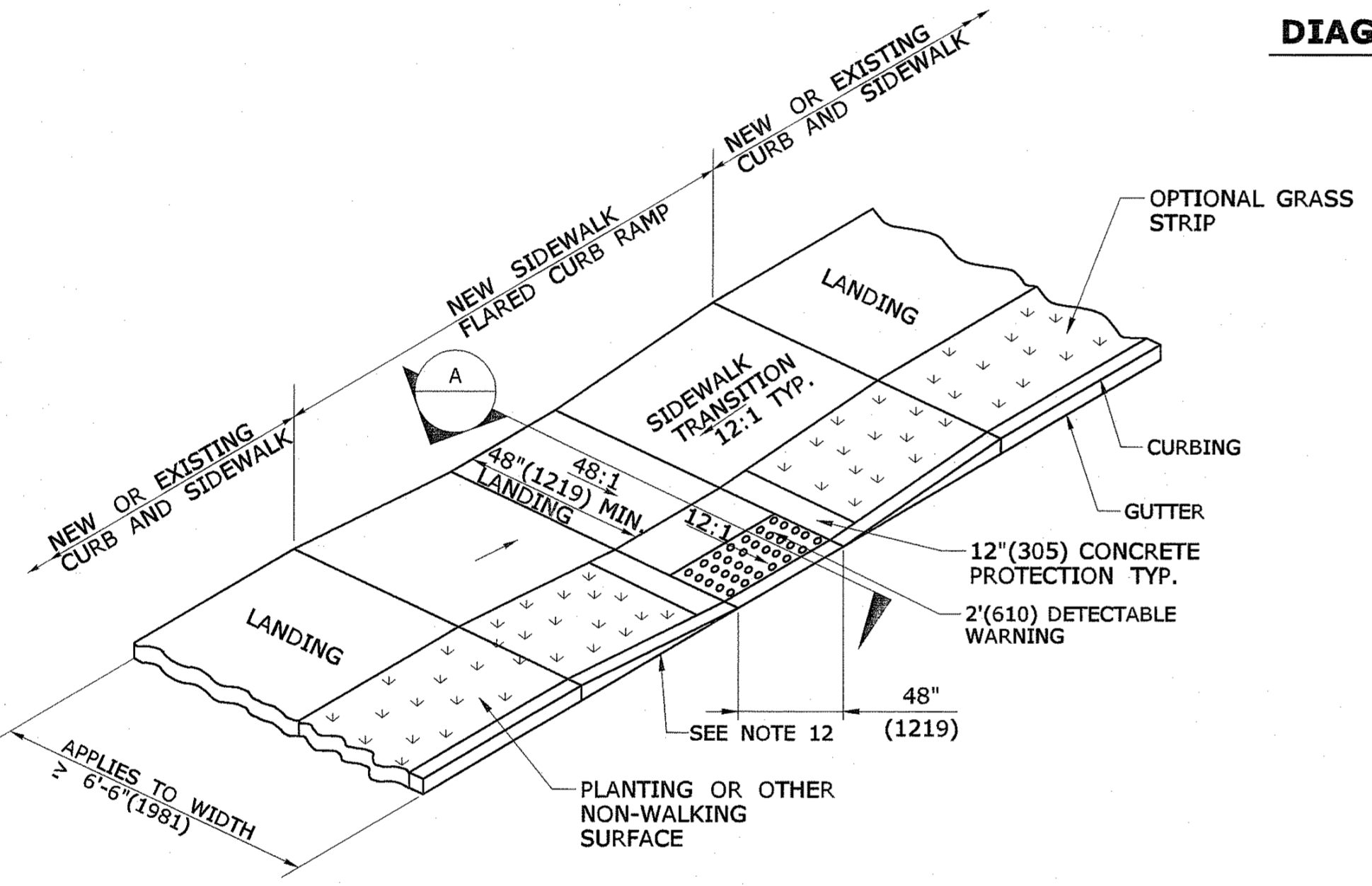


DIAGONAL SIDEWALK RAMP (TYPE 4a)

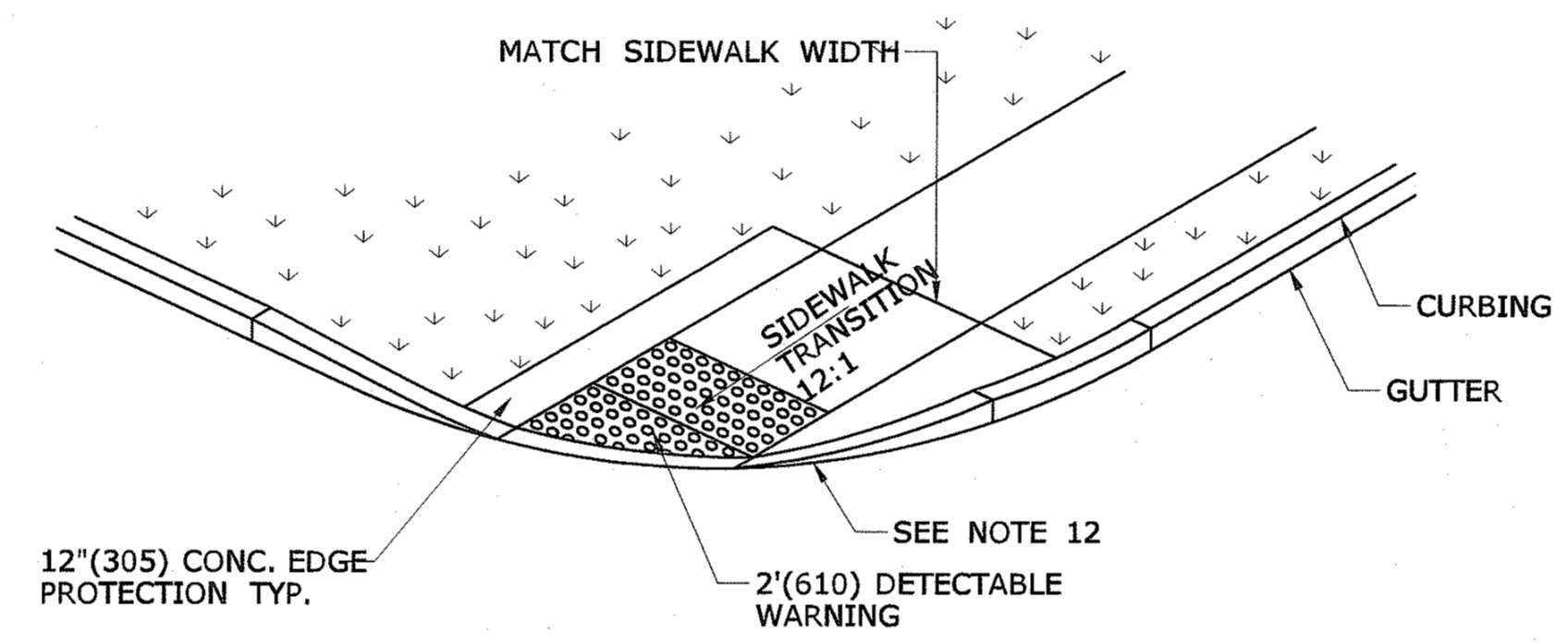
DIAGONAL/PARALLEL SIDEWALK RAMP (TYPE 4b)

GENERAL NOTES:

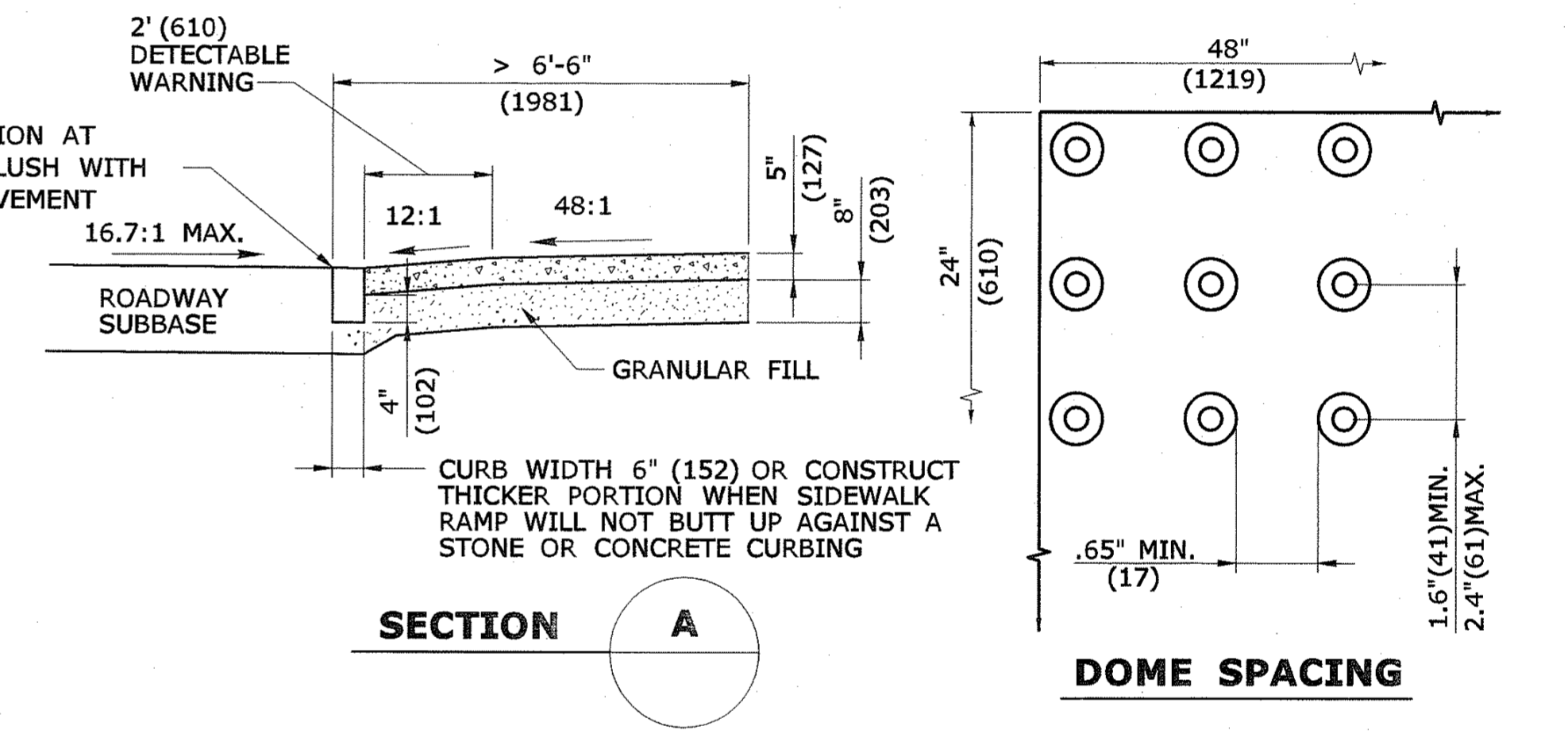
1. MAXIMUM SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK RAMP OR ACCESSIBLE ROUTE SHOULD NOT EXCEED 20:1.
2. CARE SHALL BE TAKEN TO ASSURE UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND ABRUPT GRADE CHANGES.
3. ALL RAMPS SHALL BE CONSTRUCTED OF CLASS "C" CONCRETE IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS ARTICLE M.03.01.
- *4. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. THE SURFACE ALONG ACCESSIBLE ROUTES SHALL BE STABLE, FIRM AND SLIP RESISTANT IN COMPLIANCE WITH ADAAG SECTION 4.7.
5. DIAGONAL SIDEWALK RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
6. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION / CONTRACTION JOINT OR DUMMY JOINT. 12:1 MAY NOT BE ACHIEVABLE DUE TO SIDEWALK GRADE. IN RECOGNITION OF THIS, A MINIMUM LIMIT OF 15' (4.57m) FOR A PARALLEL RAMP SHALL BE USED. REMOVAL SHALL NOT BE FURTHER THAN 2' (610) FROM THE PROPOSED RAMP UNLESS DIRECTED BY THE ENGINEER. SAW CUT REQUIRED FOR DUMMY JOINTS SHALL BE INCLUDED IN THE COST OF "CONCRETE SIDEWALK".
7. EXPANSION JOINTS IN CONCRETE SHALL MATCH THOSE IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 12' (3.66m) UNLESS OTHERWISE NOTED.
8. RAISED ISLANDS IN MARKED CROSSINGS SHALL HAVE SIDEWALK RAMPS AT BOTH SIDES AND A LEVEL AREA AT LEAST 4' (1219) LONG BETWEEN THE RAMPS. IF THIS CAN NOT BE ACHIEVED, THE RAISED ISLAND SHALL BE CUT THROUGH LEVEL WITH THE ROADWAY AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
9. SIDEWALK RAMPS SHALL BE CONSTRUCTED AND PAID FOR UNDER THE ITEM "CONCRETE SIDEWALK", INCLUDING CURBING WITHIN THE LIMITS OF THE NEW SIDEWALK RAMP AND DETECTABLE WARNING STRIPS.
10. CURBING WITHIN THE LIMITS OF THE NEW SIDEWALK RAMP SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF FORM 816 SECTIONS 8.11 AND 8.13.
11. HANDICAP RAMPS CONFORMING WITH CONNECTICUT GENERAL STATUTES, SEC. 7-118a, SHALL BE INCORPORATED INTO ALL PROPOSED SIDEWALKS AT ALL STREET INTERSECTIONS, AND AT ALL OTHER LOCATIONS WHERE THE GRADE OF THE DRIVEWAY OR OTHER FACILITY TAKES PRECEDENCE OVER THE GRADE OF THE PROPOSED SIDEWALK.
12. TRANSITION TO FULL HEIGHT CURB. INSTALL STONE CURBING IF ADJACENT CURBING IS STONE. INSTALL CONCRETE CURBING IF ADJACENT CURBING IS CONCRETE OR BITUMINOUS.
13. INSTALL THE EDGE OF THE DETECTABLE WARNING STRIP 6" (152) FROM THE EDGE OF ROAD.
14. TO PERMIT WHEELCHAIR WHEELS TO ROLL BETWEEN DOMES, ALIGN DOMES ON A SQUARE GRID IN THE DIRECTION OF PEDESTRIAN TRAVEL.



PERPENDICULAR SIDEWALK RAMP (TYPE 2)



DIAGONAL SIDEWALK RAMP (TYPE 4c)



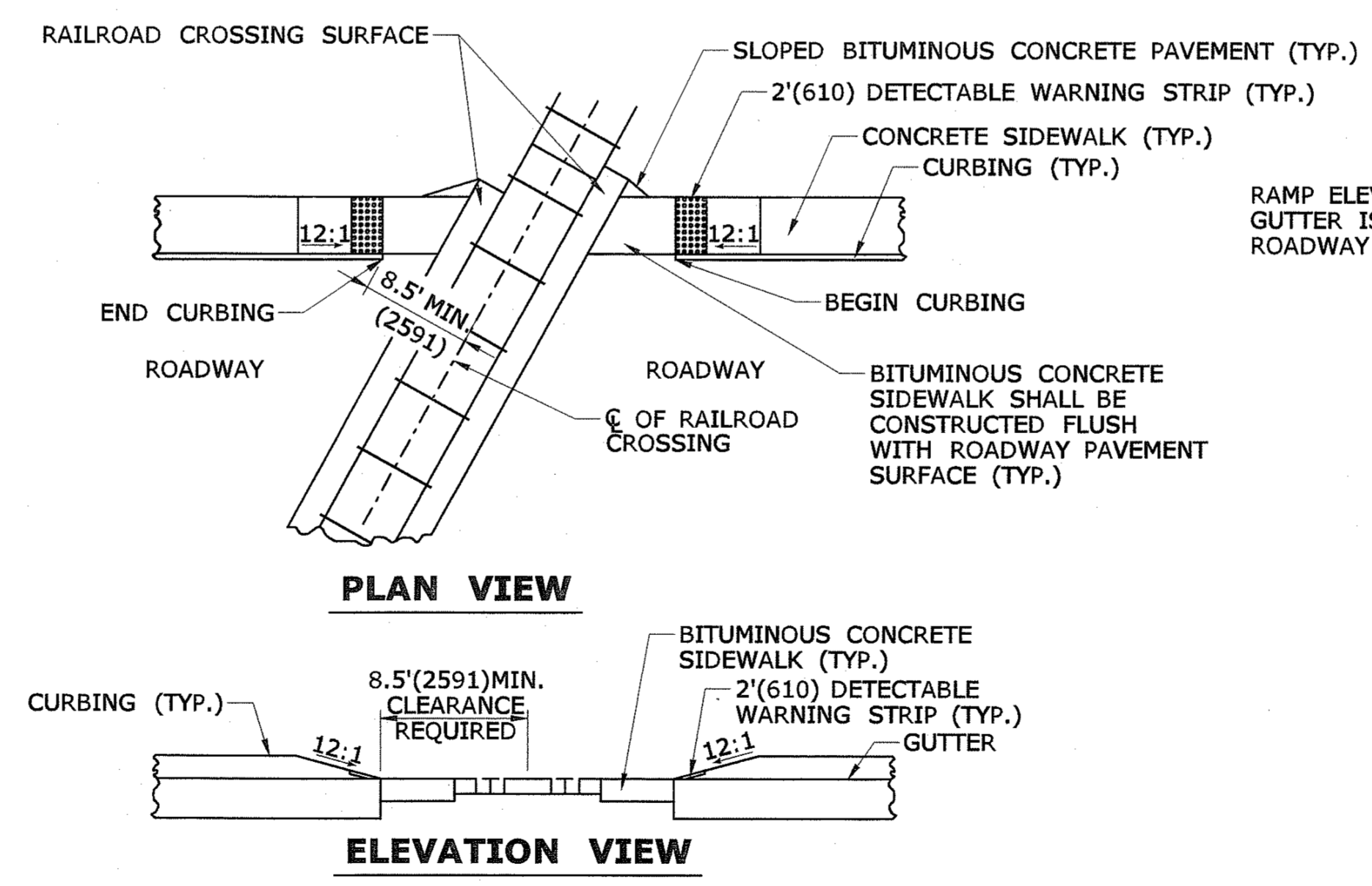
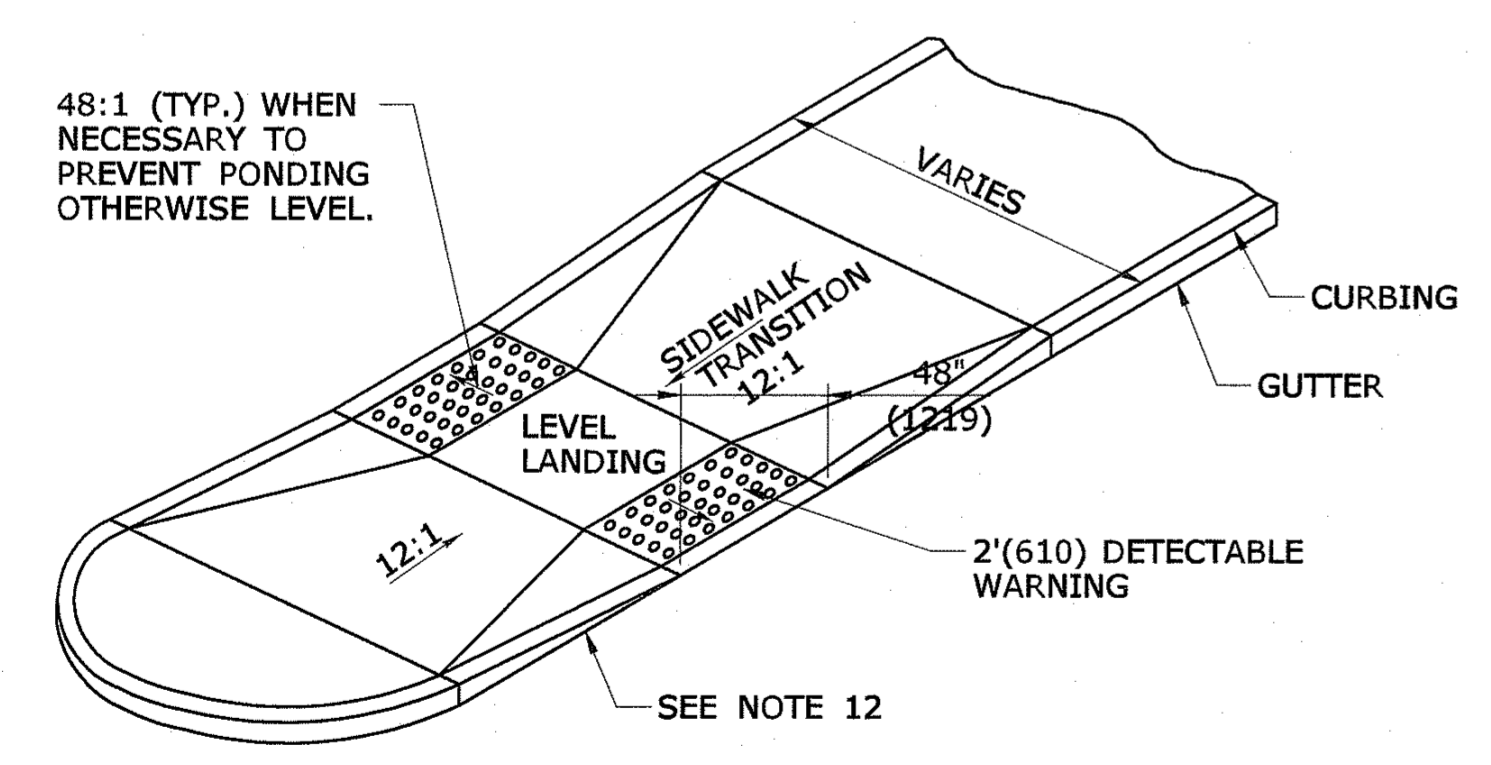
SECTION A

DOMES SPACING

SECTION B

DOMES SECTION

SECTION C



PLAN VIEW

ELEVATION VIEW

DETECTABLE WARNINGS AT RAILROAD CROSSING

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

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REV.	DATE	REVISION DESCRIPTION		Filename: CTDOT_HIGHWAY_STD.dgn		Model: HW-921_02					