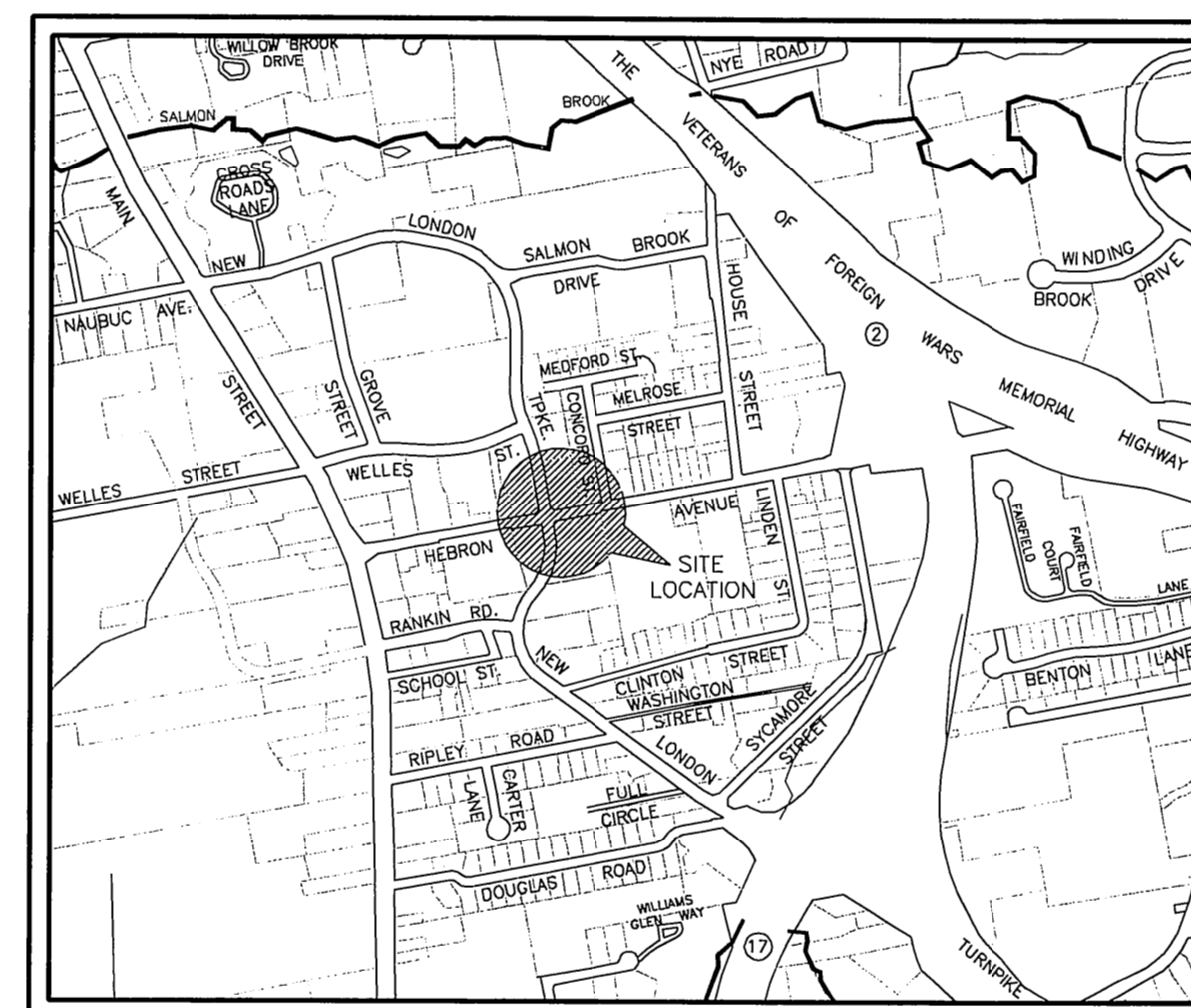


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# TOWN OF GLASTONBURY ENGINEERING DEPARTMENT HEBRON AVENUE & NEW LONDON TURNPIKE INTERSECTION IMPROVEMENTS PW-1205 GLASTONBURY, CONNECTICUT

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4	PAVEMENT MARKING & SIGNING PLAN
5,6,7	CROSS SECTIONS
8	TRAFFIC SIGNAL PLAN
9	MAST ARM SECTIONS/ELEVATIONS
10	MAST ARM ASSEMBLY ELEVATIONS
11	MAST ARM ASSEMBLY DETAILS
12	MAST ARM ASSEMBLY FOUNDATION DETAILS
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TR-1001_01	TRENCHING & BACKFILLING, ELECTRICAL CONDUIT CONNDOT
TR-1002_01	TRAFFIC CONTROL FOUNDATIONS CONNDOT
TR-1010_01	CONCRETE HANDHOLE CONNDOT
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TR-1220_02	CONSTRUCTION SIGN SUPPORT AND CHANNELING DEVICES CONNDOT
HW 921-02	SIDEWALK RAMPS CONNDOT



LOCATION MAP

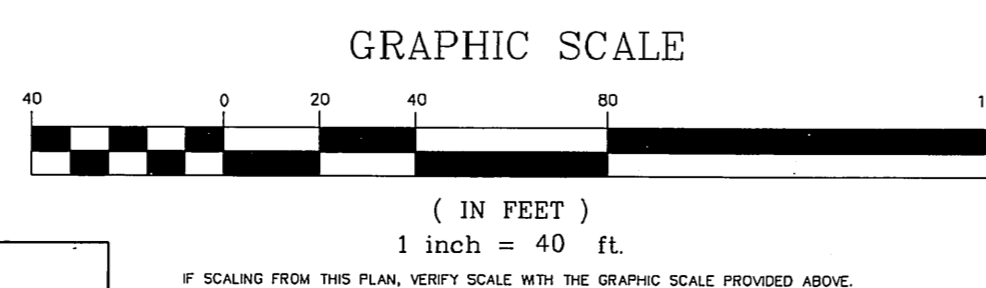
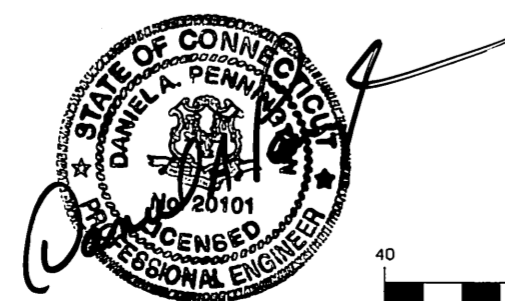
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FEBRUARY 2014

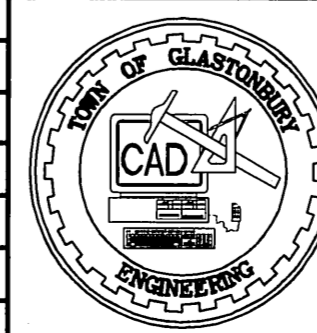
ISSUED FOR CONSTRUCTION

RICHARD J. JOHNSON  
TOWN MANAGER

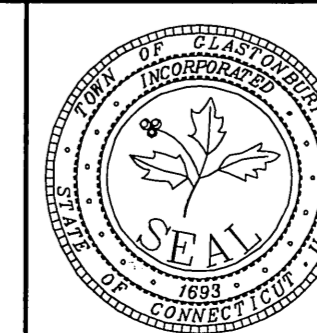
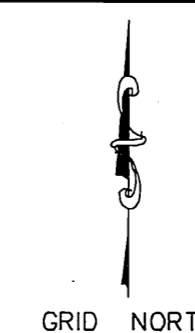
DANIEL A. PENNINGTON  
TOWN ENGINEER/MANAGER OF PHYSICAL SERVICES



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NO.	DESCRIPTION	DATE
2.	REMOVE MILL & OVERLAY	2/10/2014
1.	ISSUED FOR CONSTRUCTION	5/30/2013



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CHECKED BY: S.M.B.	5/30/2013
APPROVED BY: D.A.P.	5/30/2013
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TITLE SHEET  
INTERSECTION IMPROVEMENTS  
located at  
HEBRON AVENUE  
and  
NEW LONDON TURNPIKE  
GLASTONBURY, CONNECTICUT

SHEET NO.  
**1**  
OF 25

ALL UTILITY INFORMATION AND DATA SHOWN OR INDICATED IN THE CONTRACT DOCUMENTS ARE COMPILED FROM MAPS AND DATA FURNISHED BY OTHERS. ANY SUCH INFORMATION SHOULD NOT BE CONSTRUED AS ACCURATE OR COMPLETE AND THE CONTRACTOR SHALL VERIFY ALL LOCATIONS PRIOR TO CONSTRUCTION.

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PW-1205



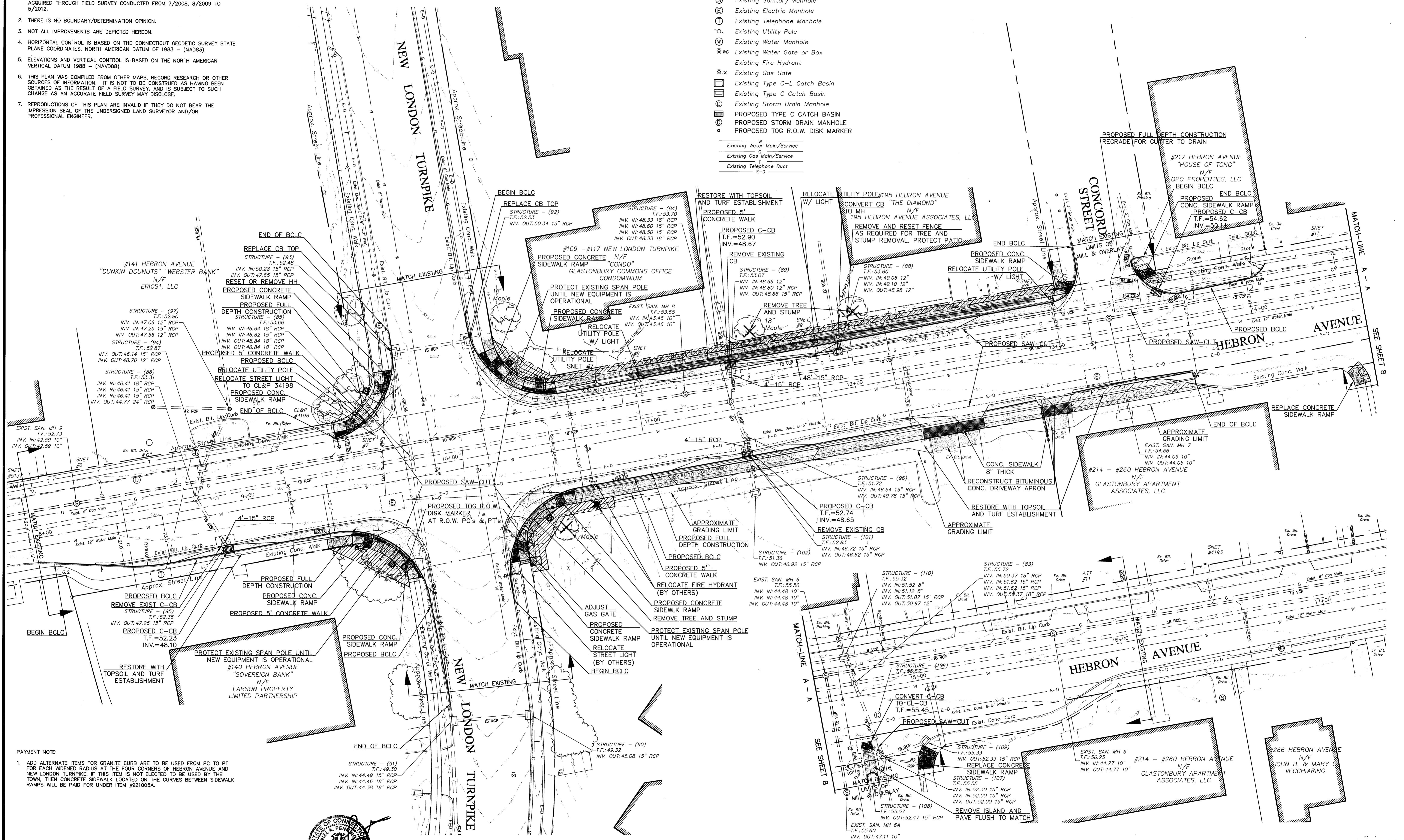
FILE: H:\DWG\Streets\Hebron Ave\PW-1203 Hebron Av-New London Tpk Intersect\Hebron Av - New London Tpk Intersect.dwg USDR: Charles Strickland DATE: 2/10/2014

**SURVEY NOTE:**

1. LOCATION OF FEATURES AND CONTOUR DATA DEPICTED HEREON WERE ACQUIRED THROUGH FIELD SURVEY CONDUCTED FROM 7/2008, 8/2009 TO 5/2012.
2. THERE IS NO BOUNDARY/DETERMINATION OPINION.
3. NOT ALL IMPROVEMENTS ARE DEPICTED HEREON.
4. HORIZONTAL CONTROL IS BASED ON THE CONNECTICUT GEODETIC SURVEY STATE PLANE COORDINATES, NORTH AMERICAN DATUM OF 1983 - (NAD83).
5. ELEVATIONS AND VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 - (NAVD88).
6. THIS PLAN WAS COMPILED FROM OTHER MAPS, RECORD RESEARCH OR OTHER SOURCES OF INFORMATION. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD SURVEY, AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE.
7. REPRODUCTIONS OF THIS PLAN ARE INVALID IF THEY DO NOT BEAR THE IMPRESSION SEAL OF THE UNDERSIGNED LAND SURVEYOR AND/OR PROFESSIONAL ENGINEER.

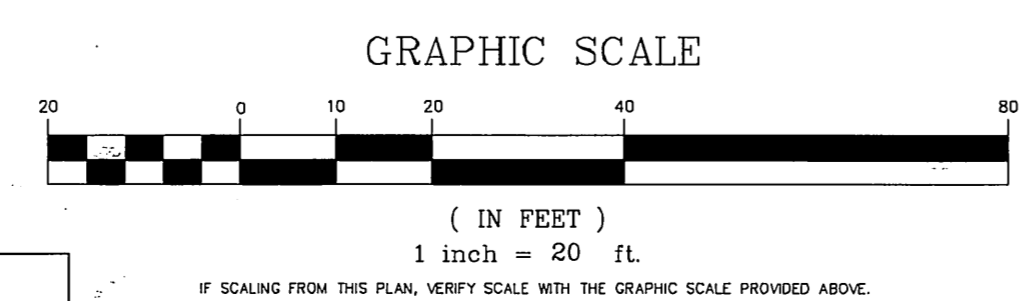
**LEGEND**

- ⊙ Existing Sanitary Manhole
  - ⊕ Existing Electric Manhole
  - ⊙ Existing Telephone Manhole
  - ⊙ Existing Utility Pole
  - ⊙ Existing Water Manhole
  - ⊙ Existing Water Gate or Box
  - ⊙ Existing Fire Hydrant
  - ⊙ Existing Gas Hydrant
  - ⊙ Existing Type C-L Catch Basin
  - ⊙ Existing Type C Catch Basin
  - ⊙ Existing Storm Drain Manhole
  - ⊙ PROPOSED TYPE C CATCH BASIN
  - ⊙ PROPOSED STORM DRAIN MANHOLE
  - ⊙ PROPOSED TOG R.O.W. DISK MARKER
- W Main/Service  
 — G Gas Main/Service  
 — E Existing Telephone Duct  
 — E-D

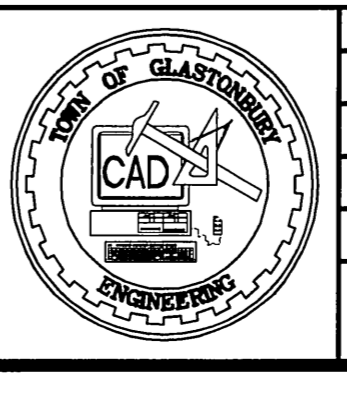


**PAYMENT NOTE:**

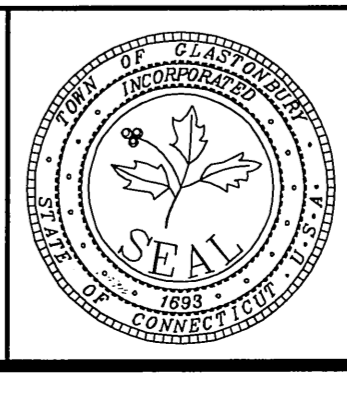
1. ADD ALTERNATE ITEMS FOR GRANITE CURBS ARE TO BE USED FROM PC TO PT FOR EACH WIDENED RADIUS AT THE FOUR CORNERS OF HEBRON AVENUE AND NEW LONDON TURNPIKE. IF THIS ITEM IS NOT ELECTED TO BE USED BY THE TOWN, THEN CONCRETE SIDEWALK LOCATED ON THE CURVES BETWEEN SIDEWALK RAMP WILL BE PAID FOR UNDER ITEM #921005A.



DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
2.	REMOVE MILL & OVERLAY	2/10/2014
1.	ISSUED FOR CONSTRUCTION	5/30/2013



SCALE: AS SHOWN	DATE:
DRAWN BY: C.F.S.	8/24/2012
CHECKED BY: S.M.B.	5/30/2013
APPROVED BY: D.A.P.	5/30/2013
ST. FILE:	



SITE PLAN DEPICTING  
 ROADWAY IMPROVEMENTS  
 at the Intersection of  
 HEBRON AVENUE  
 and  
 NEW LONDON TURNPIKE  
 GLASTONBURY, CONNECTICUT

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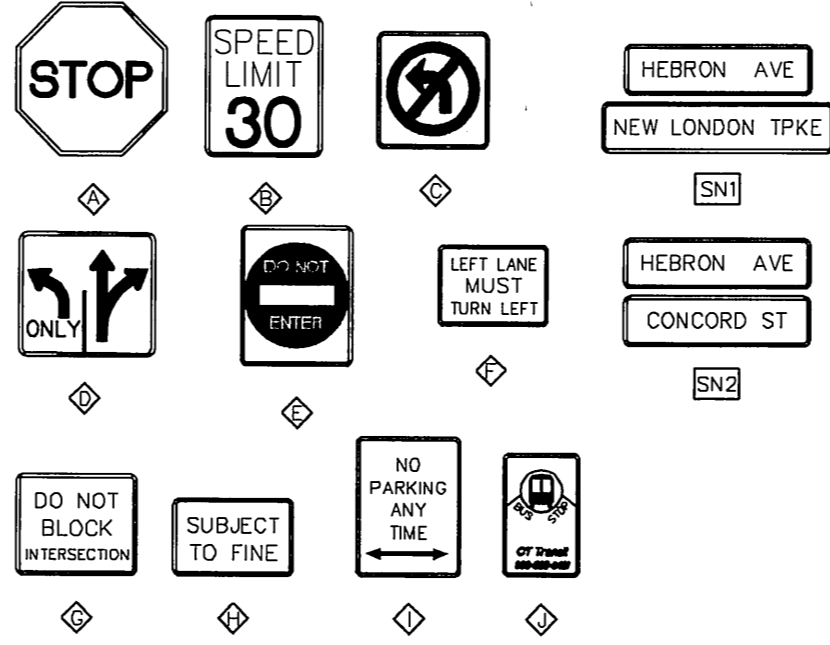
PW-1205

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GRID NORTH

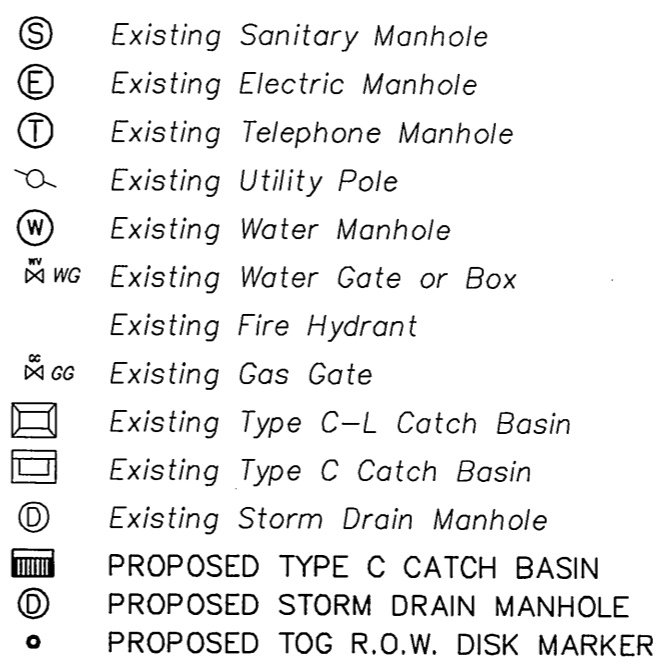
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**EXISTING SIGN LEGEND**

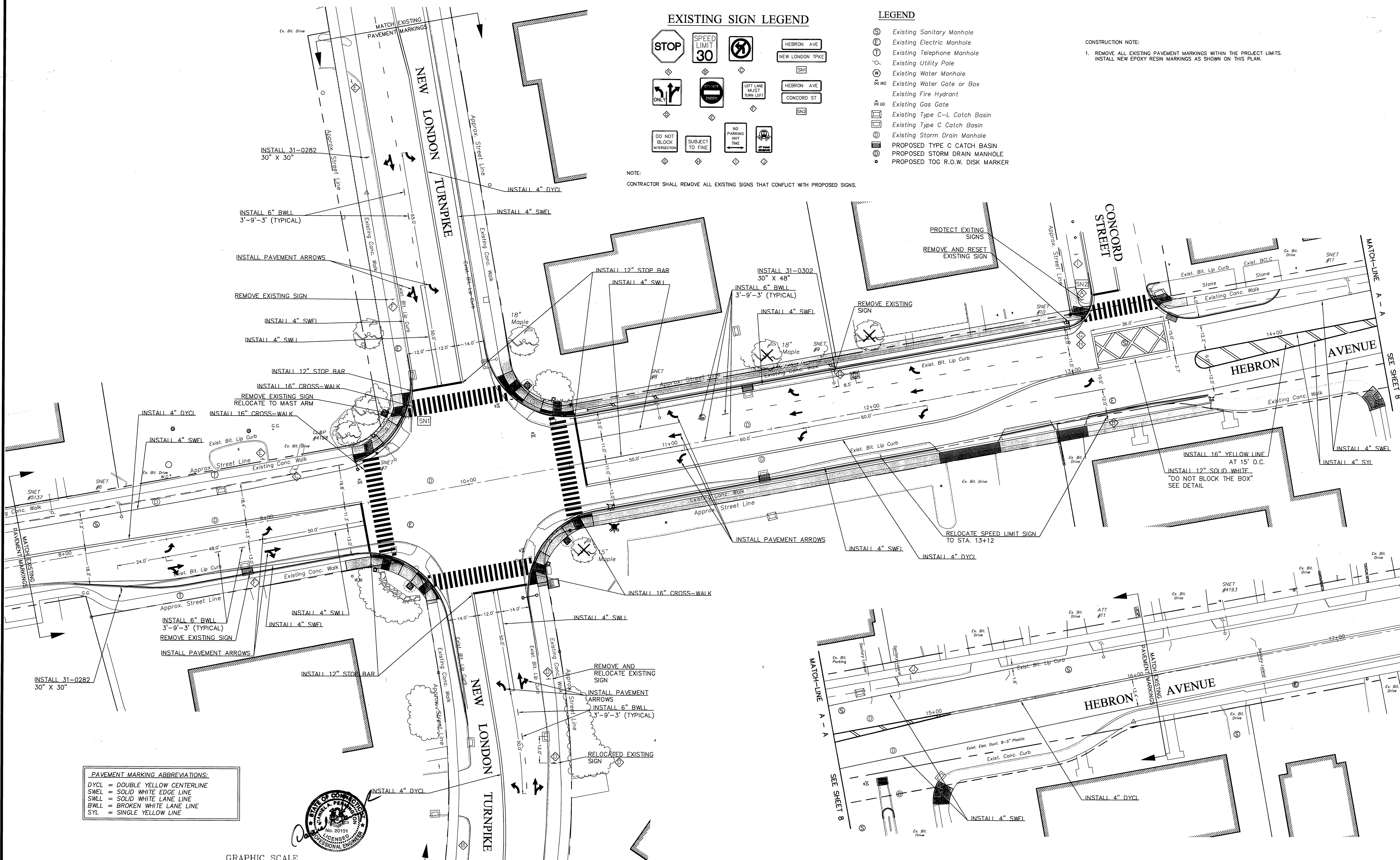


NOTE:  
CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS THAT CONFLICT WITH PROPOSED SIGNS.

**LEGEND**



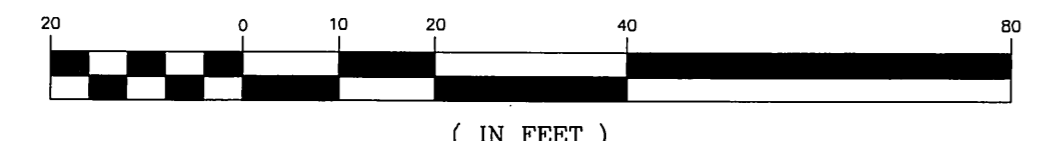
CONSTRUCTION NOTE:  
1. REMOVE ALL EXISTING PAVEMENT MARKINGS WITHIN THE PROJECT LIMITS. INSTALL NEW EPOXY RESIN MARKINGS AS SHOWN ON THIS PLAN.



**PAVEMENT MARKING ABBREVIATIONS:**  
 DYCL = DOUBLE YELLOW CENTERLINE  
 SWEL = SOLID WHITE EDGE LINE  
 SWLL = SOLID WHITE LANE LINE  
 BWLL = BROKEN WHITE LANE LINE  
 SYL = SINGLE YELLOW LINE

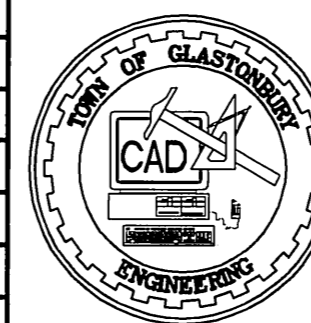


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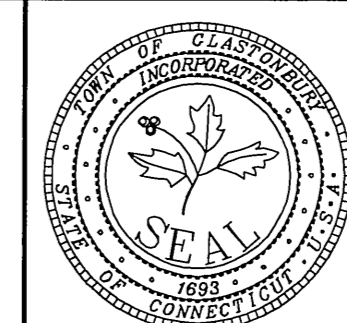
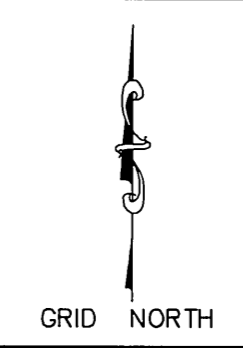


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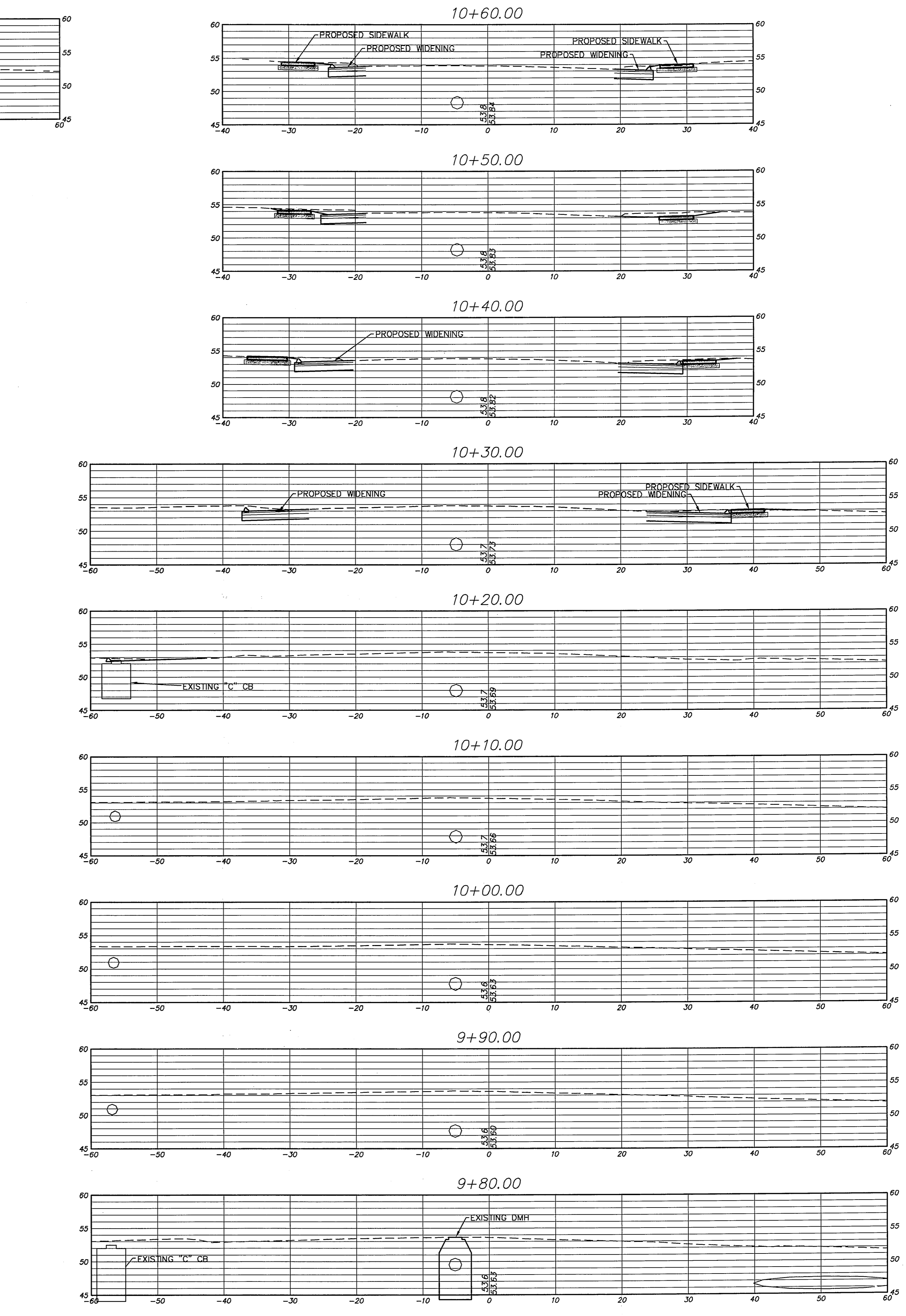
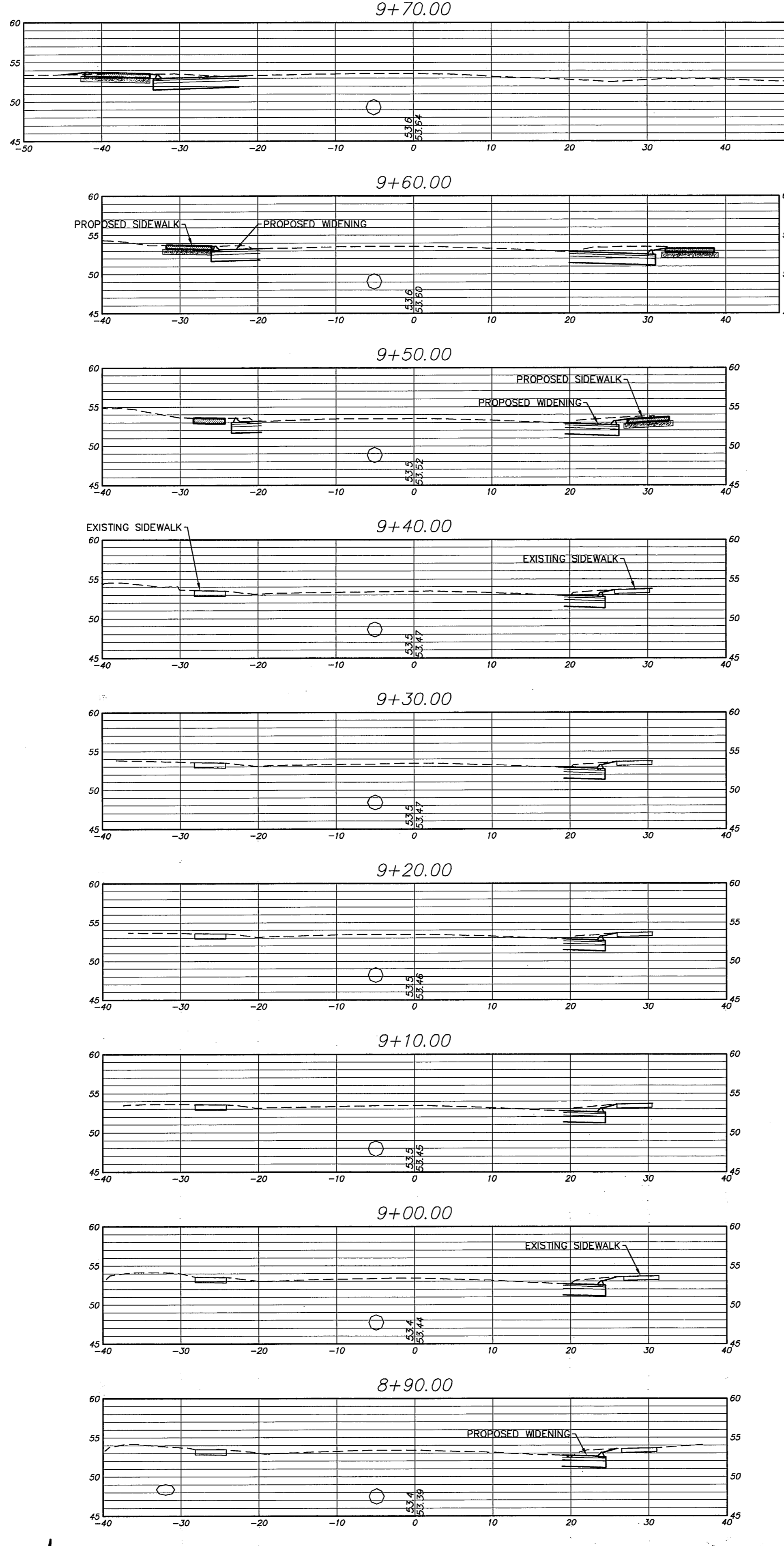
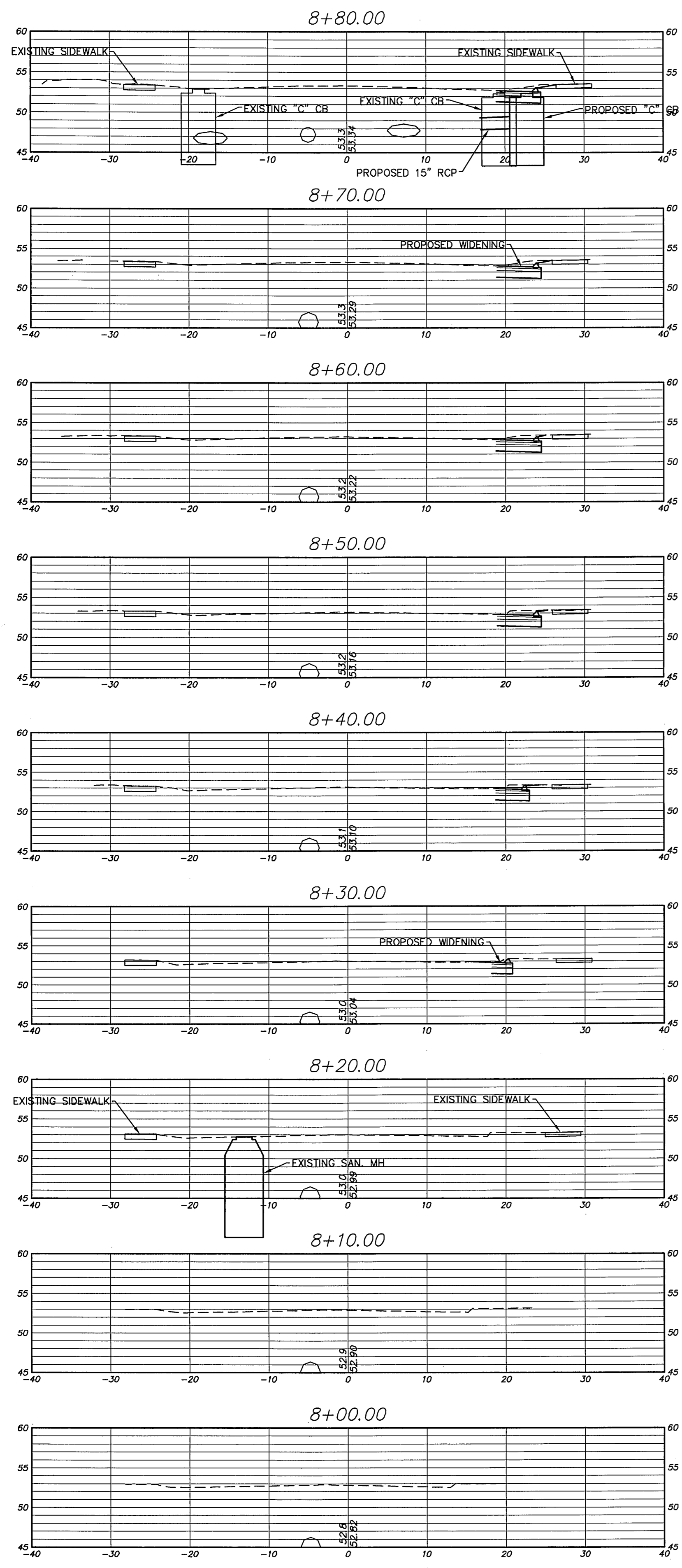
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NO.	DESCRIPTION	DATE
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SCALE: AS SHOWN	DATE:
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CHECKED BY: S.M.B.	5/30/2013
APPROVED BY: D.A.P.	5/30/2013
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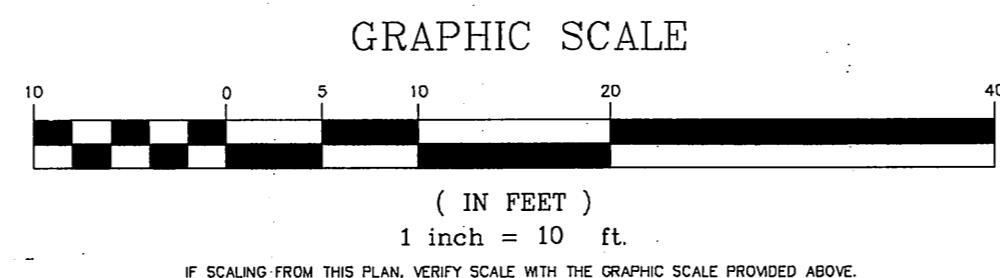
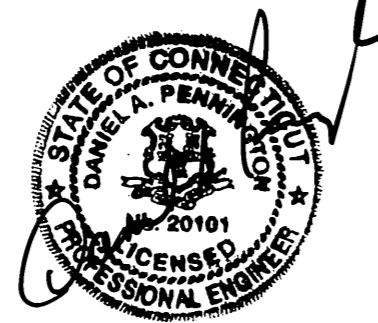
PAVEMENT MARKING AND SIGNING INTERSECTION IMPROVEMENTS at the Intersection of **HEBRON AVENUE** and **NEW LONDON TURNPIKE** GLASTONBURY, CONNECTICUT



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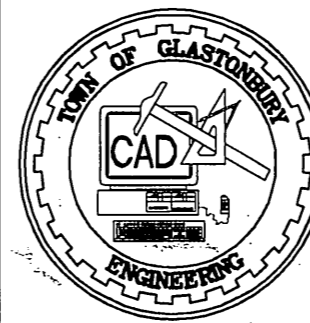
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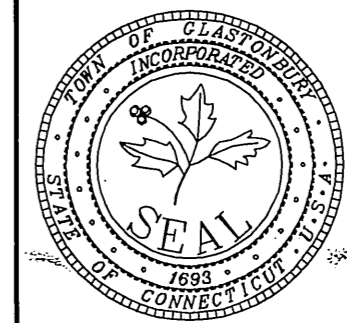
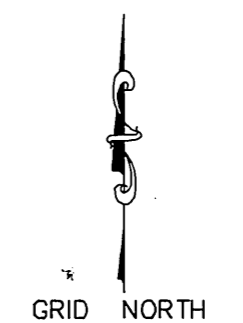


PW-1205

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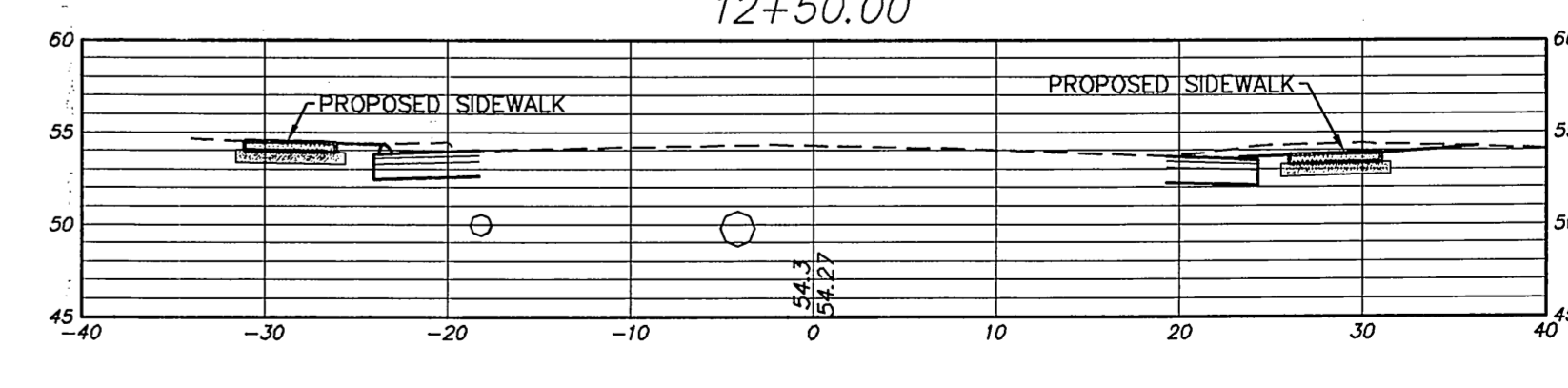
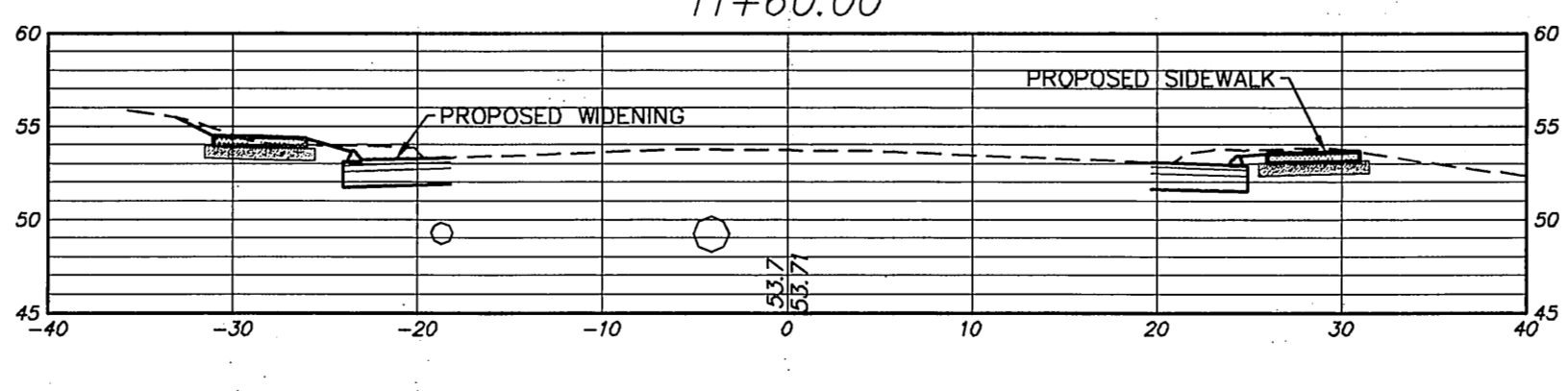
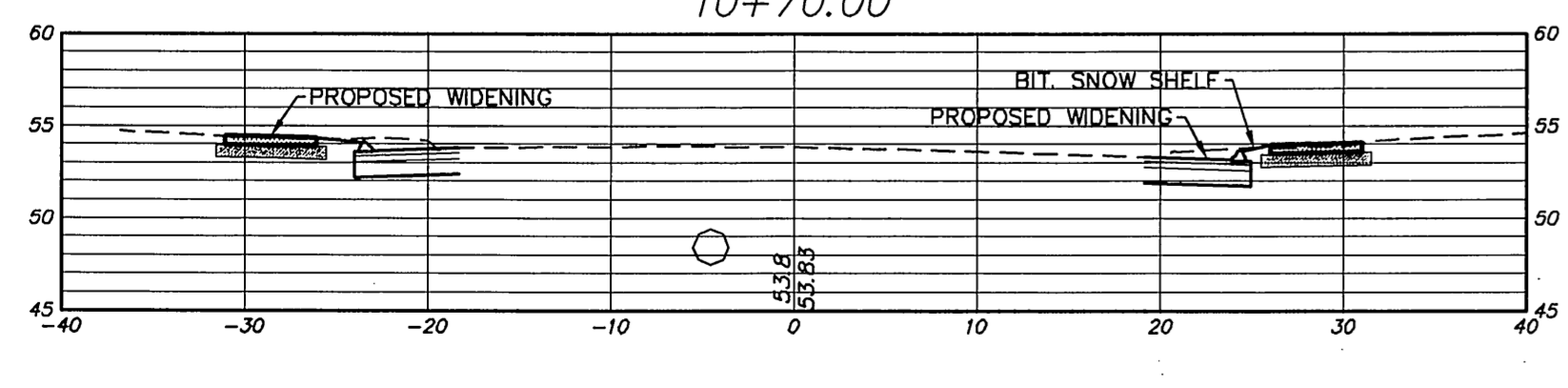
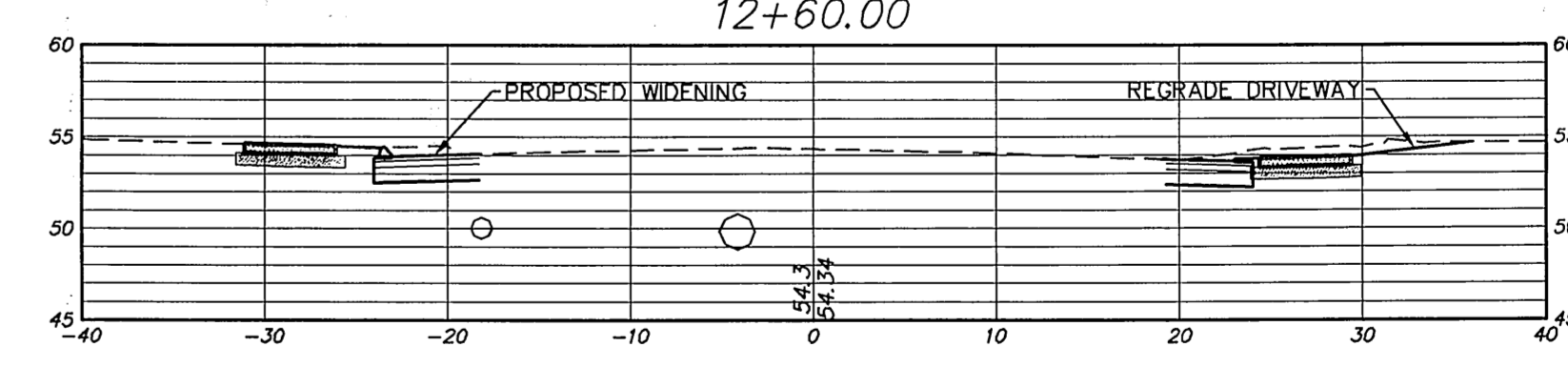
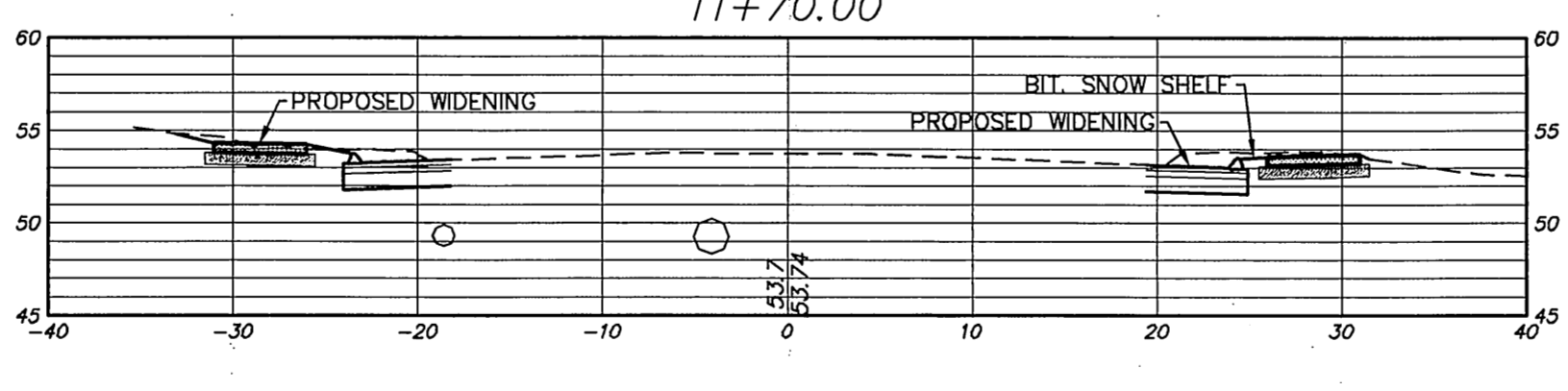
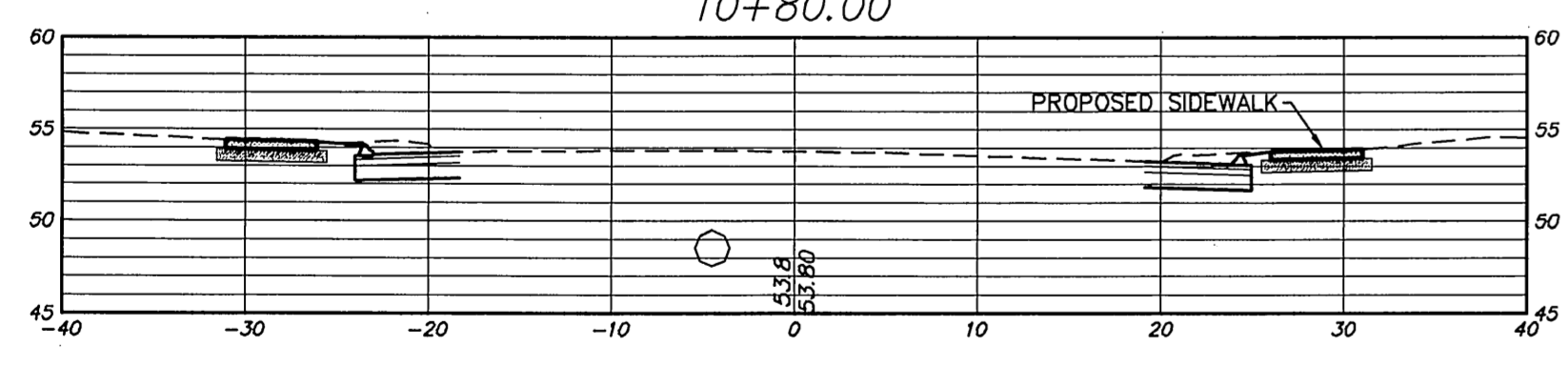
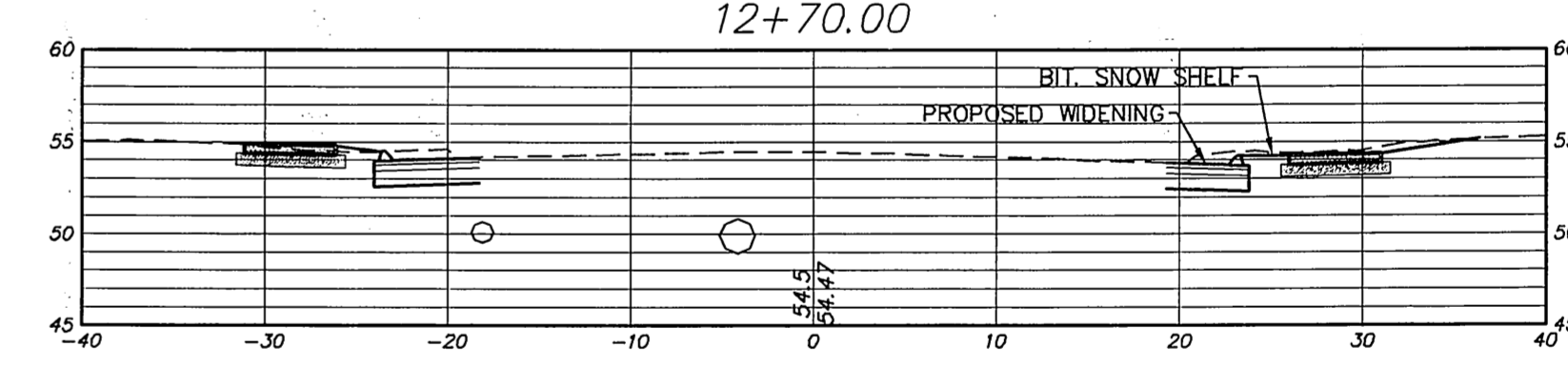
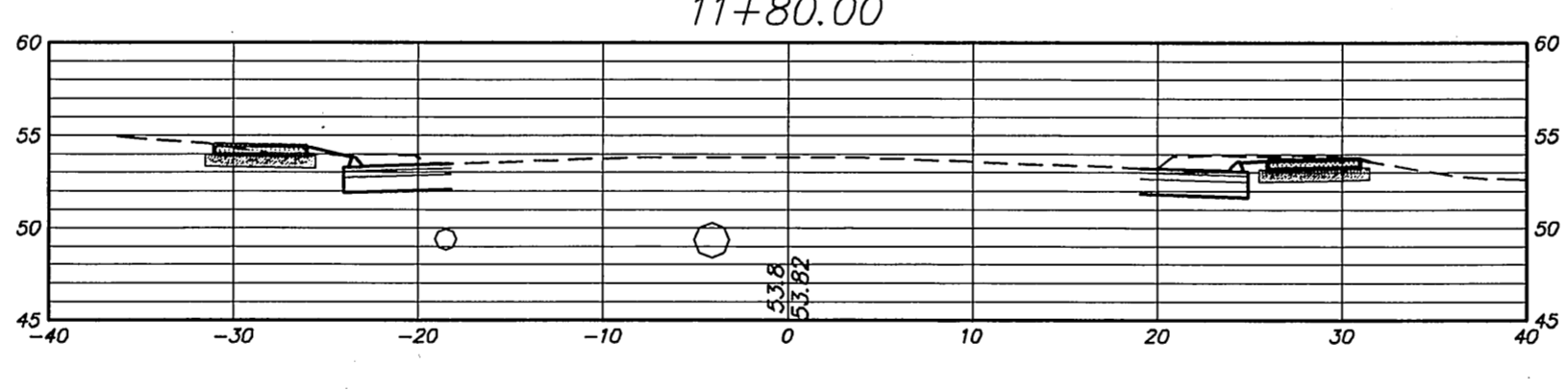
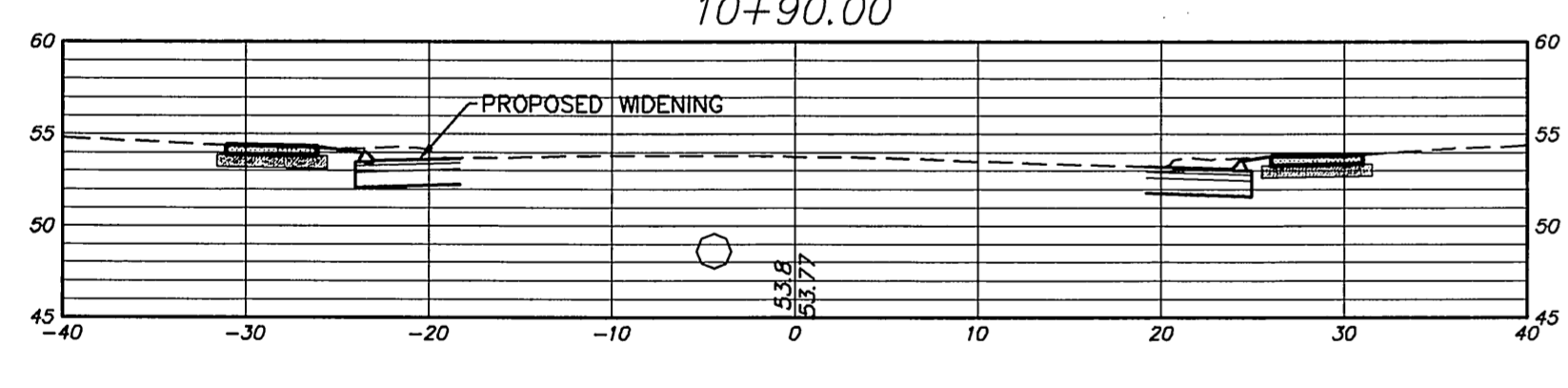
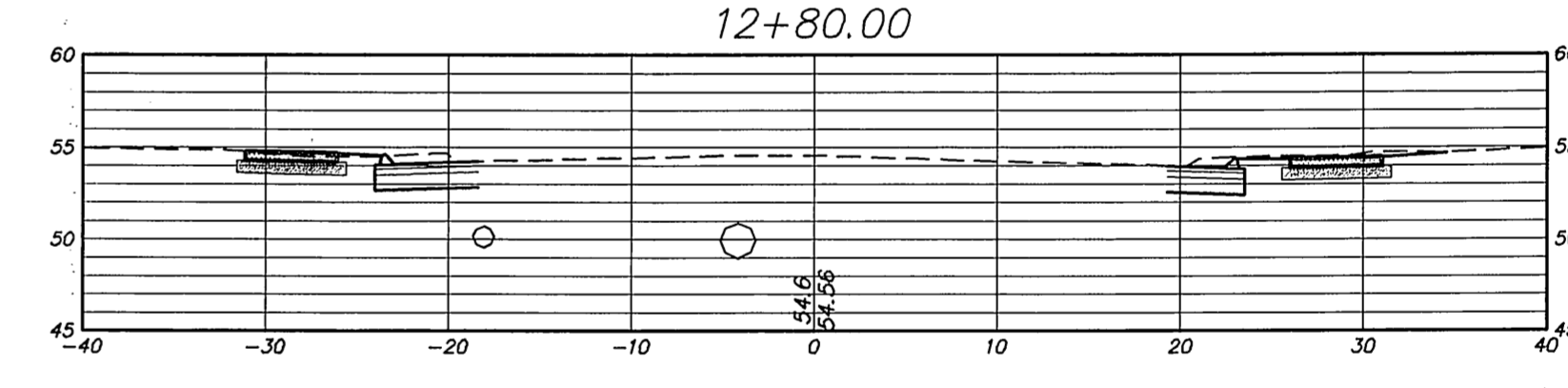
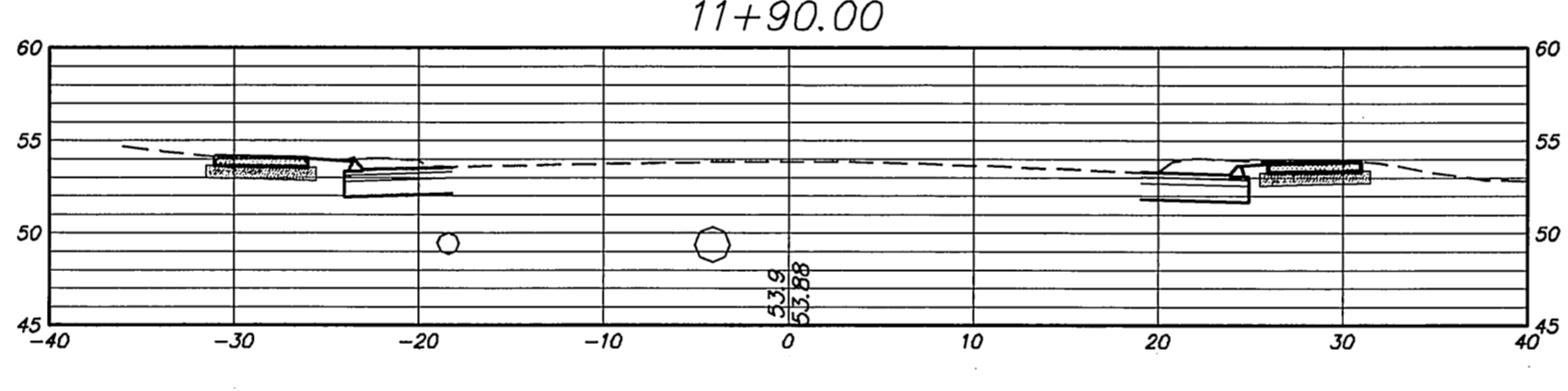
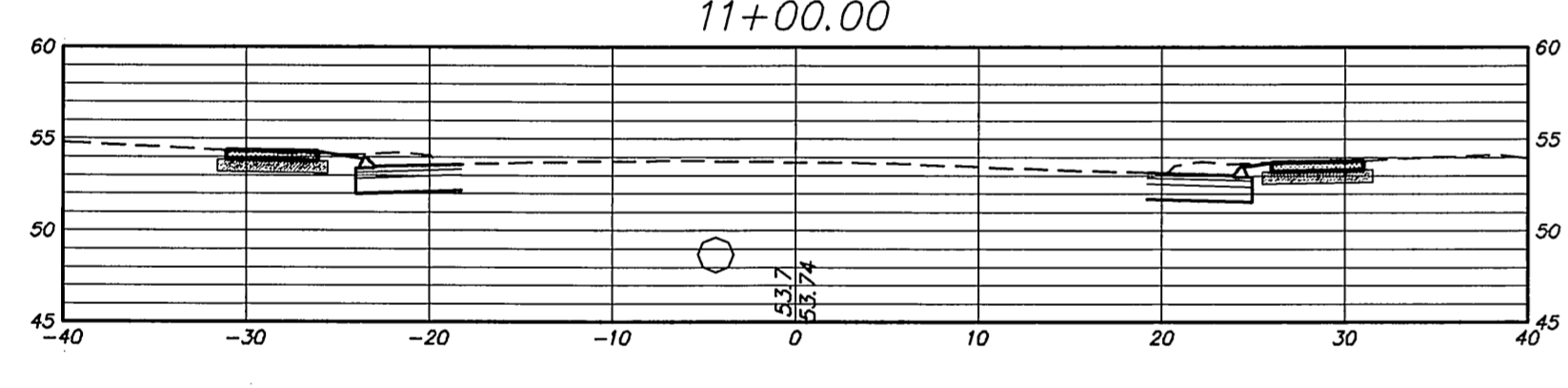
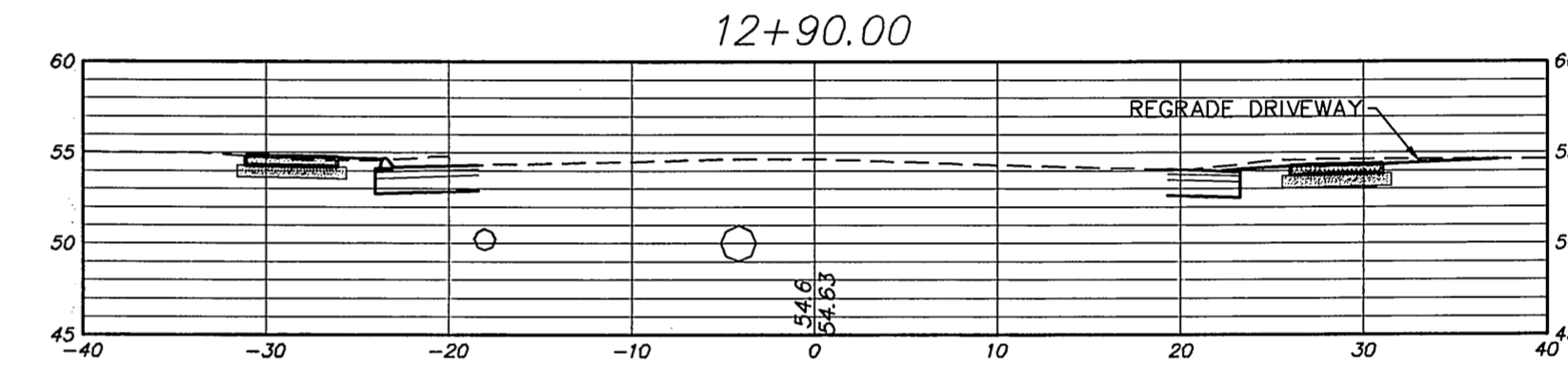
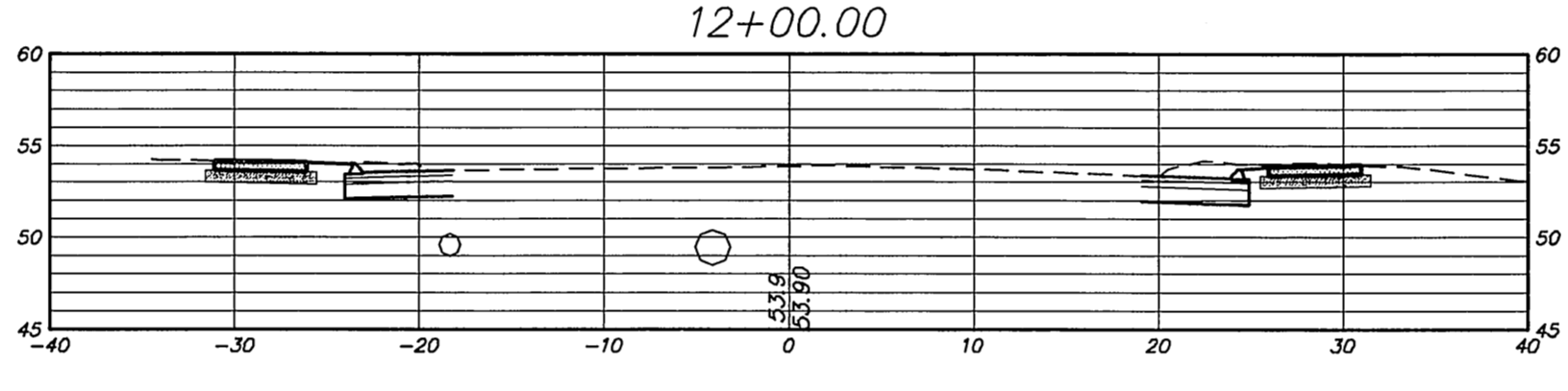
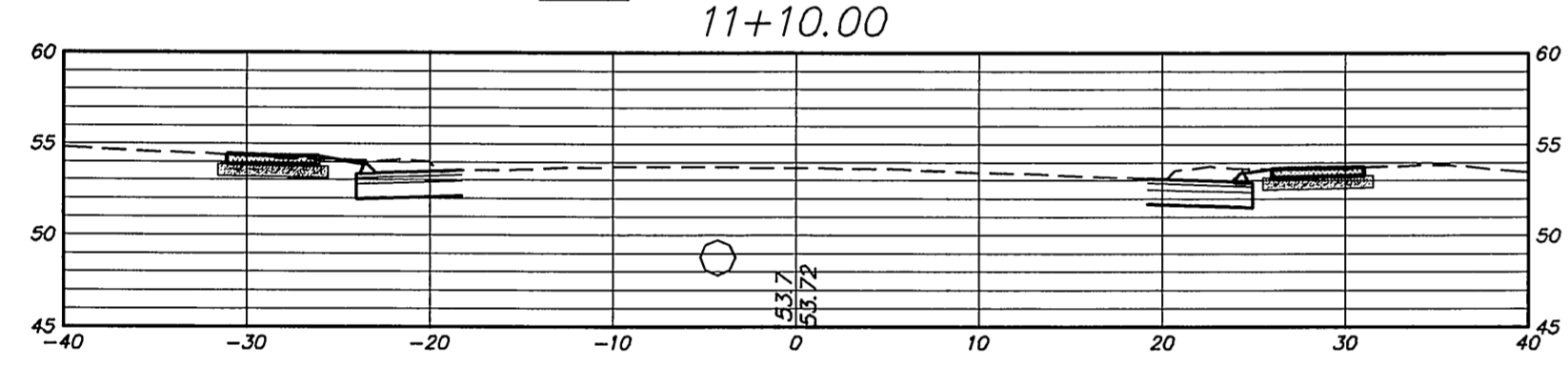
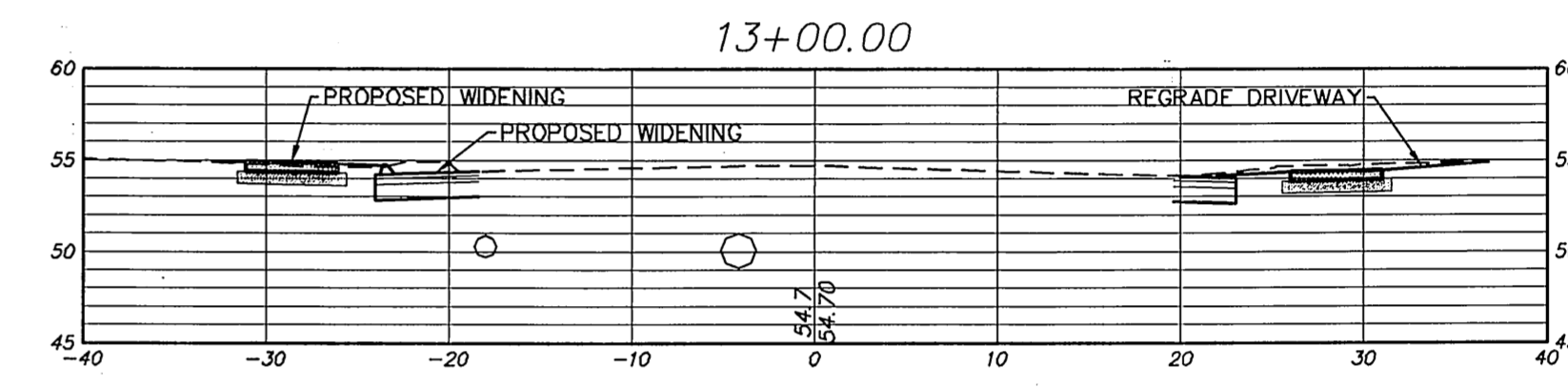
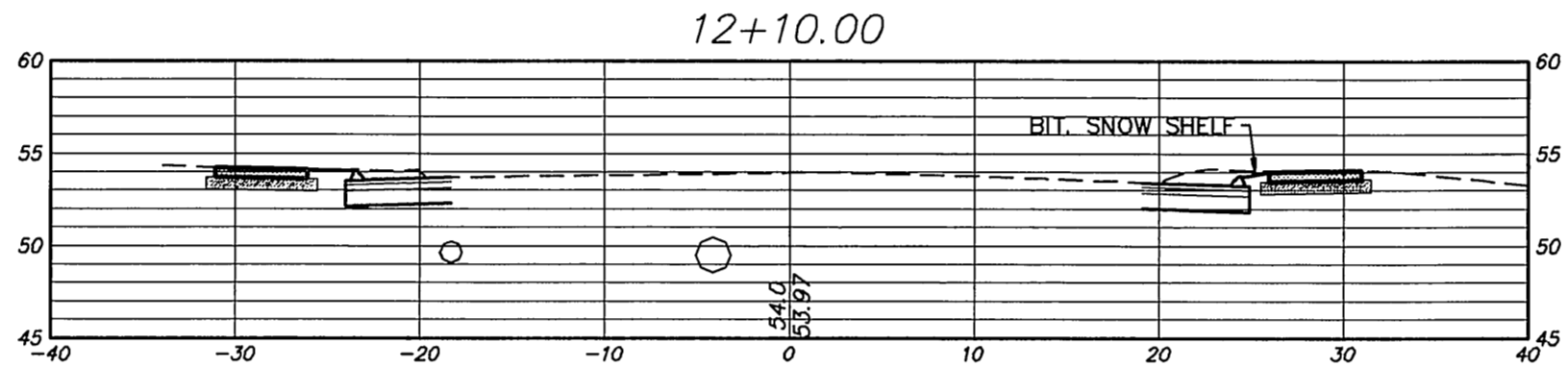
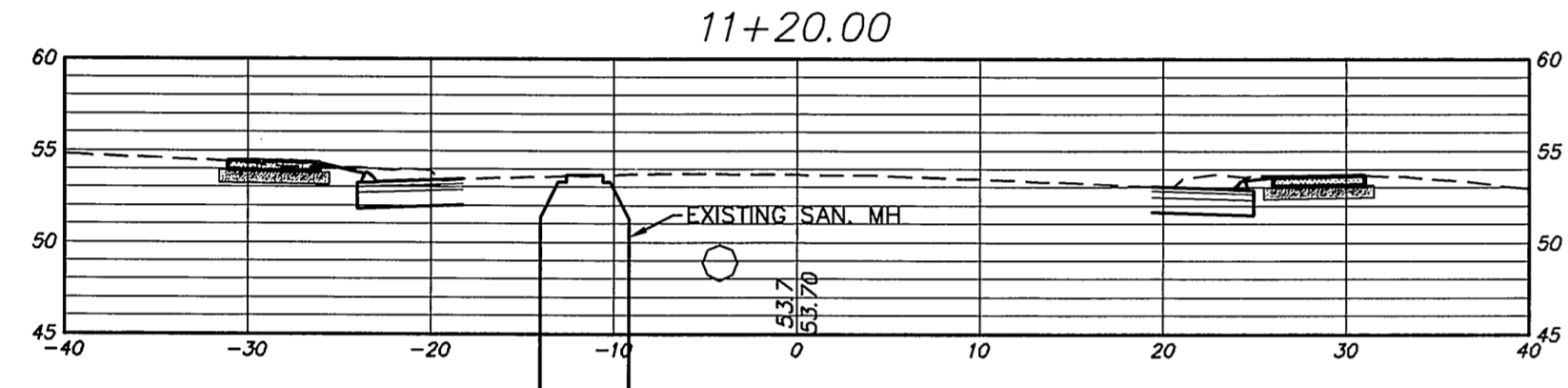
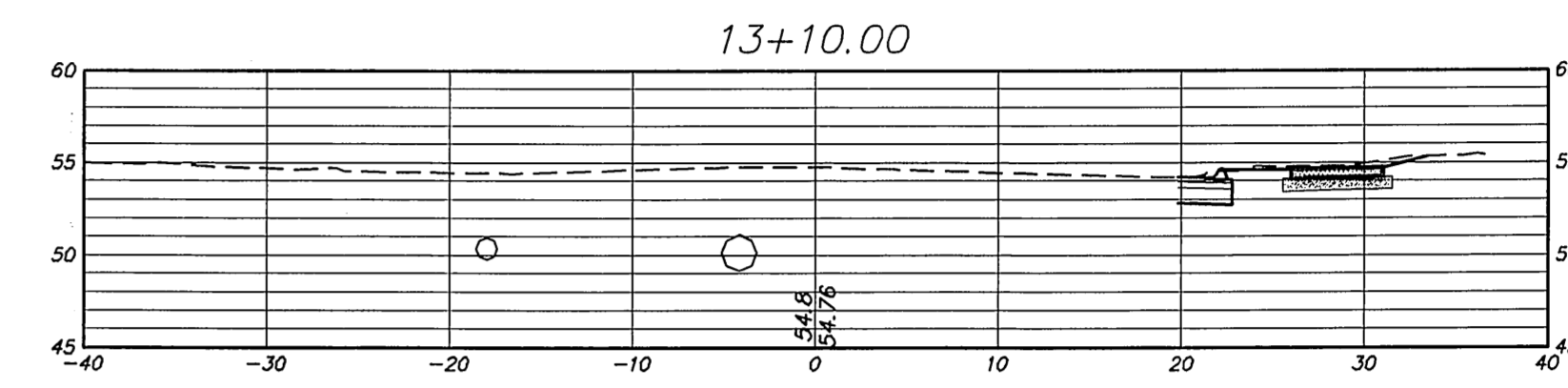
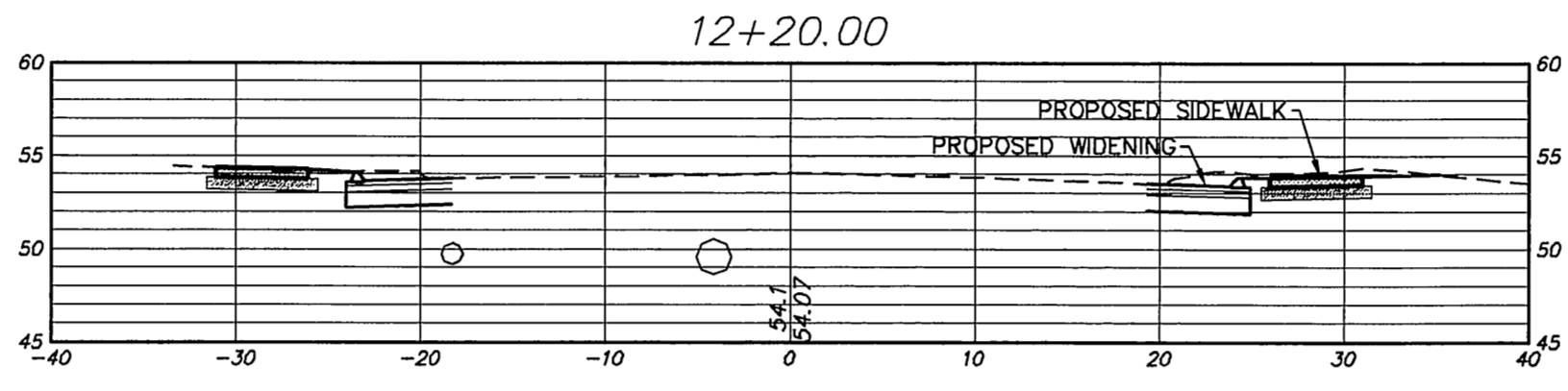
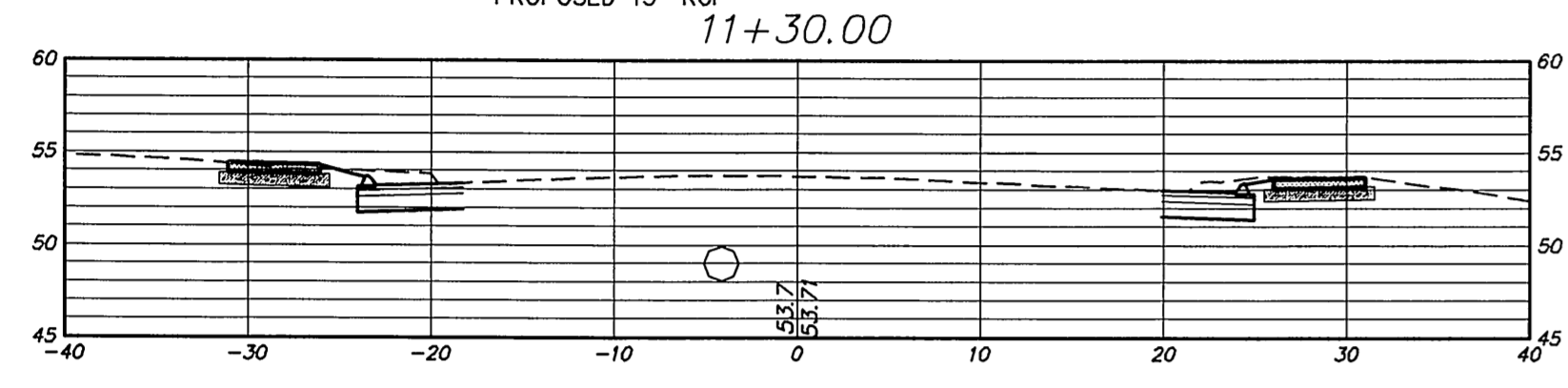
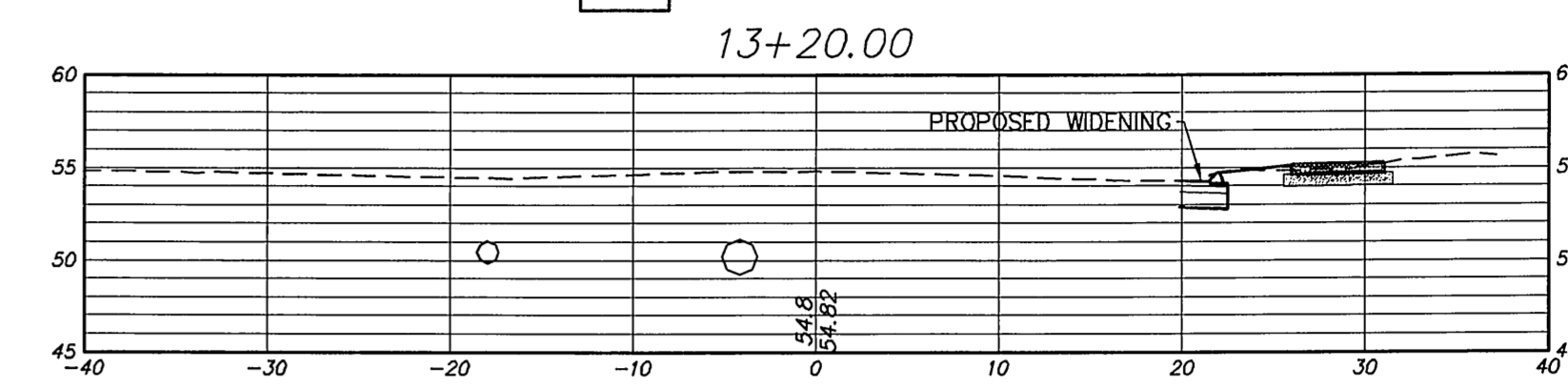
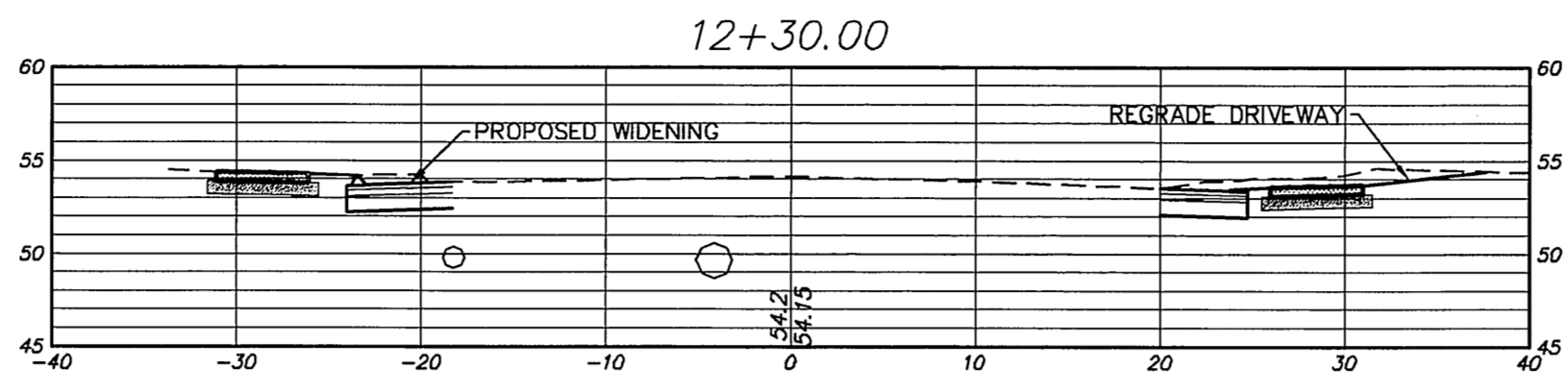
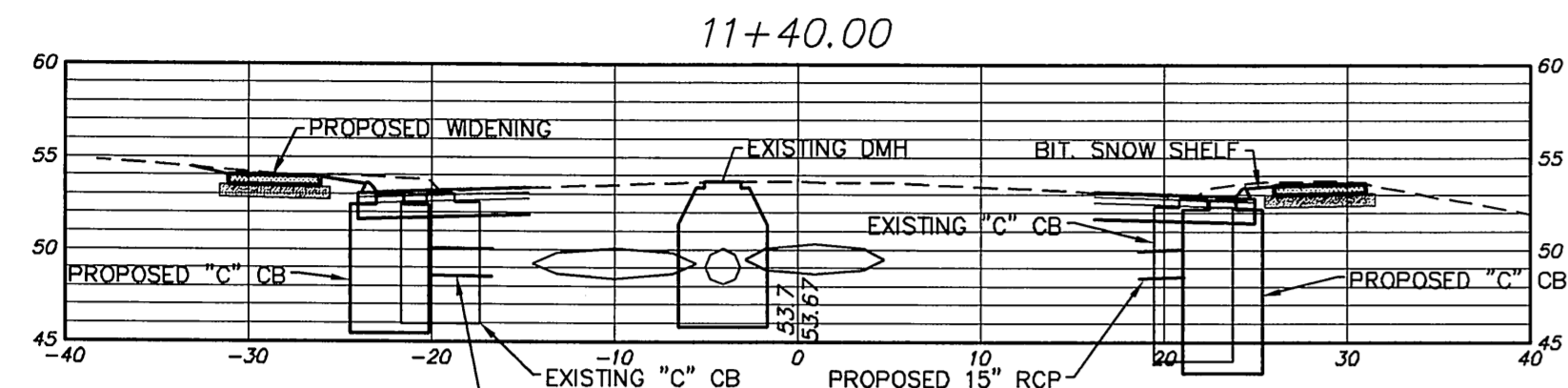
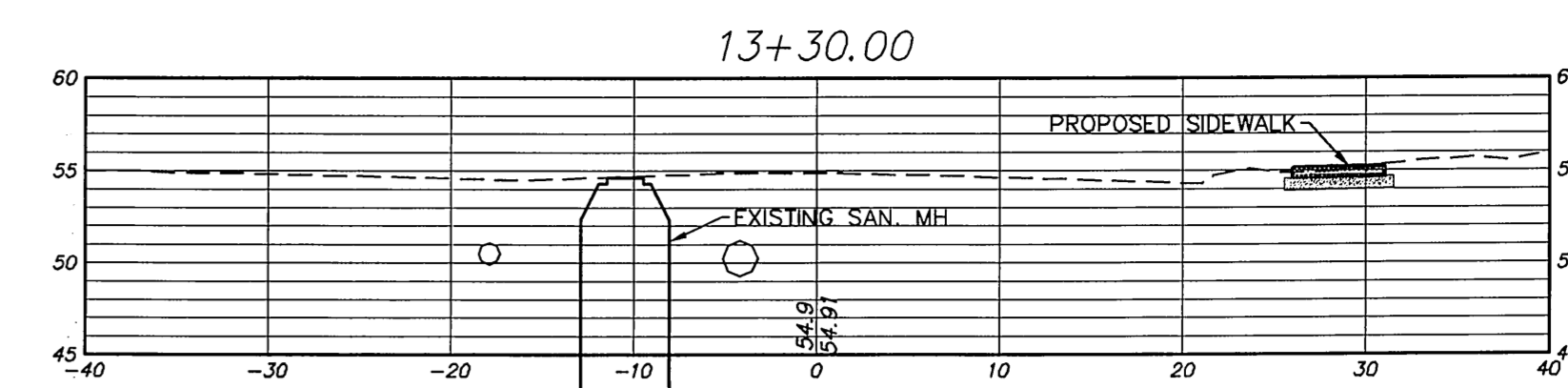
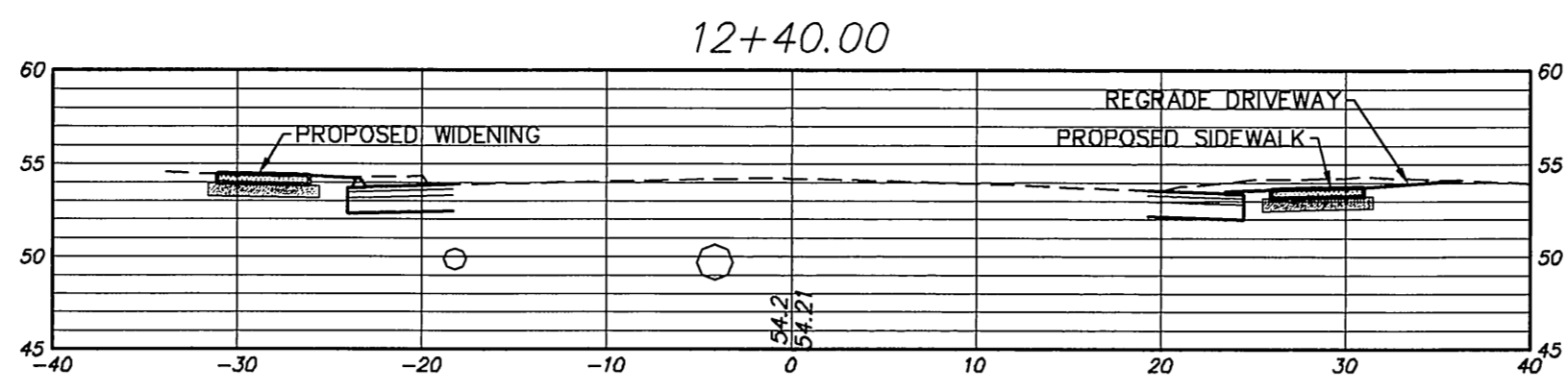
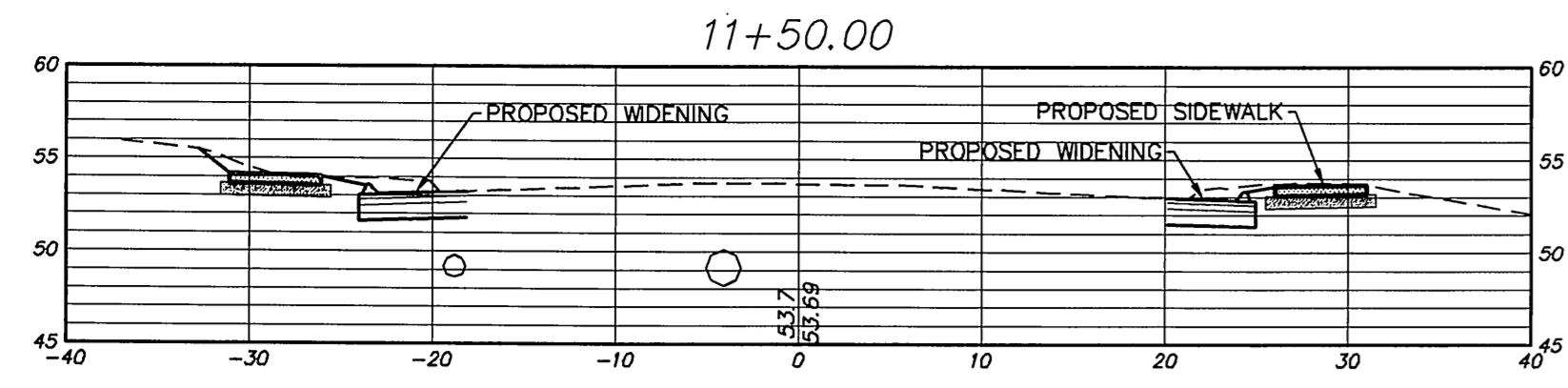


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DRAWN BY: C.F.S.	2/7/2013
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APPROVED BY: D.A.P.	5/30/2013
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CROSS - SECTIONS  
INTERSECTION IMPROVEMENTS  
at the Intersection of  
HEBRON AVENUE  
and  
NEW LONDON TURNPIKE  
GLASTONBURY, CONNECTICUT

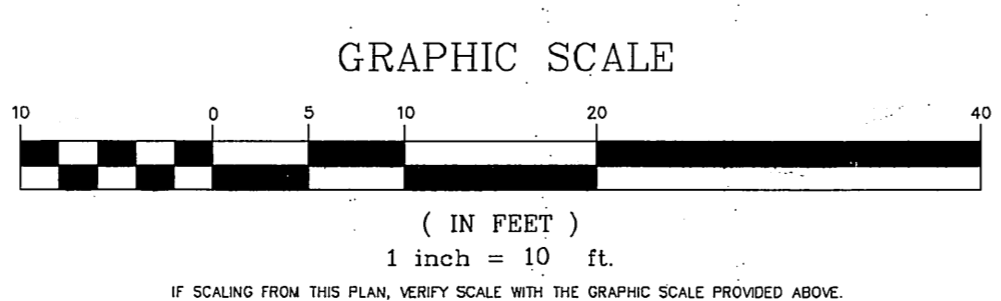
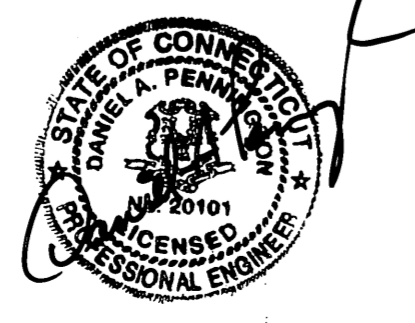
SHEET NO.  
**5**  
OF 25



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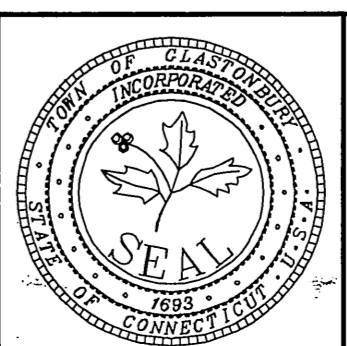
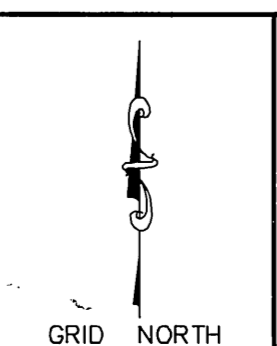
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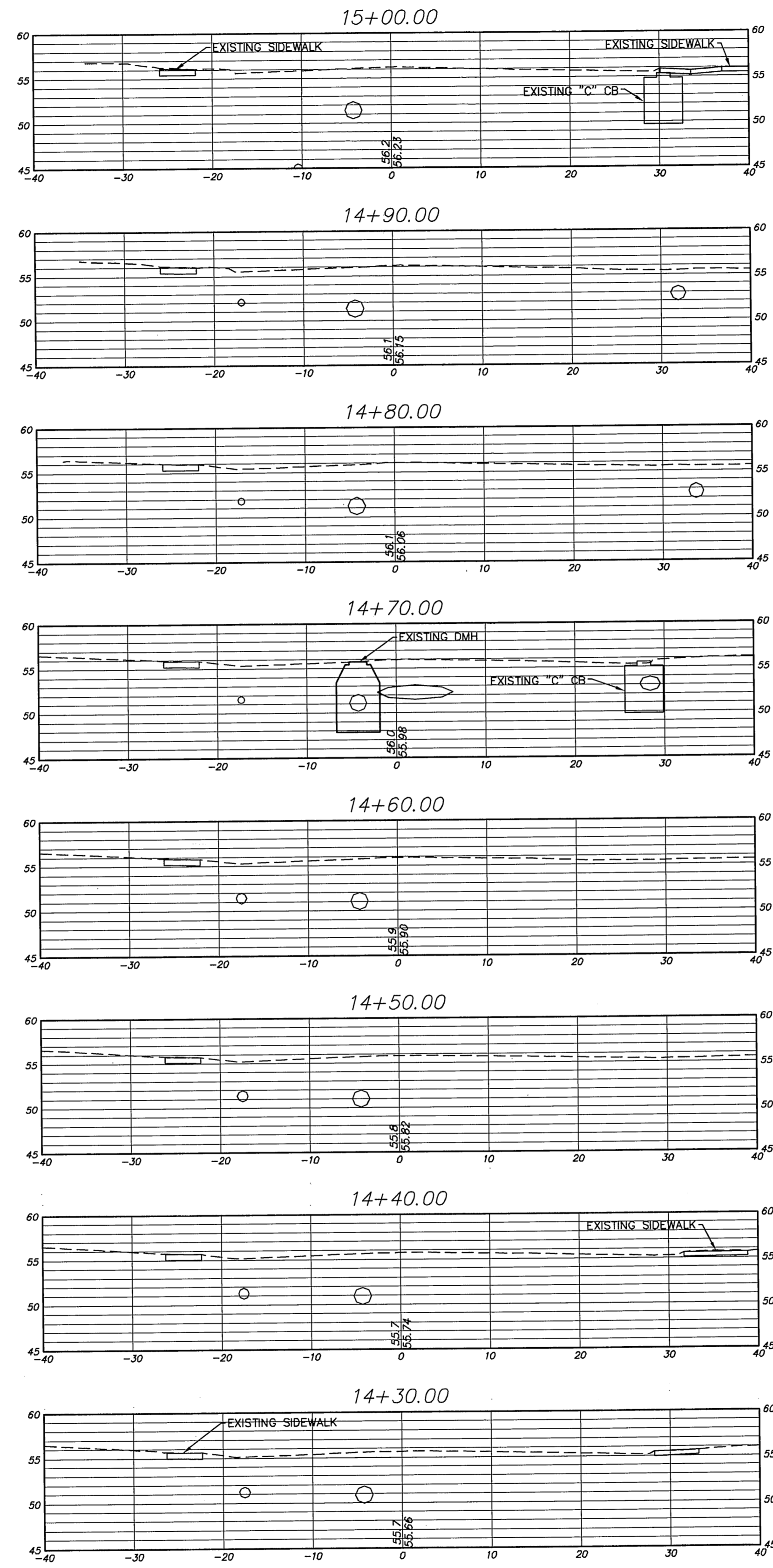
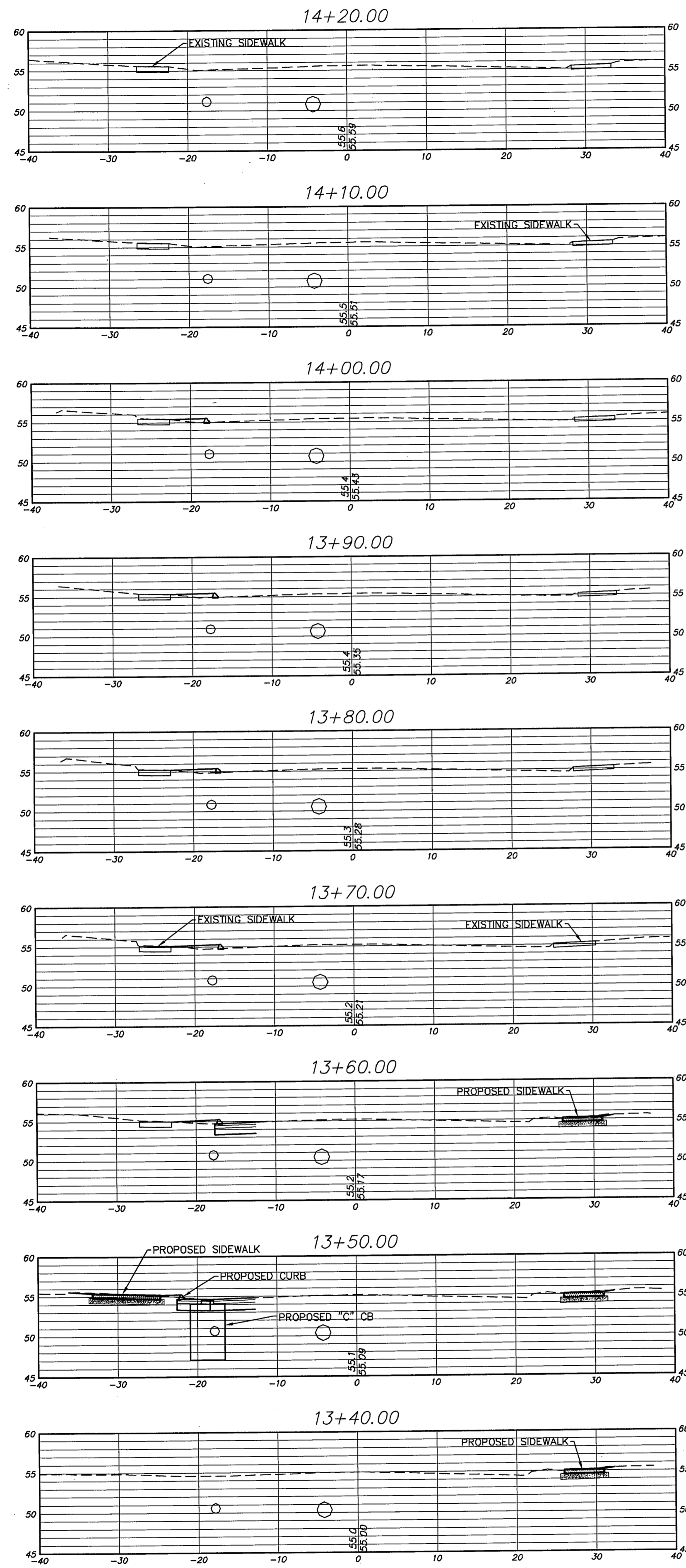
DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
1.	ISSUED FOR CONSTRUCTION	5/30/2013



SCALE: AS SHOWN  
DRAWN BY: C.F.S. 2/7/2013  
CHECKED BY: S.M.B. 5/30/2013  
APPROVED BY: D.A.P. 5/30/2013  
ST. FILE:  
DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.



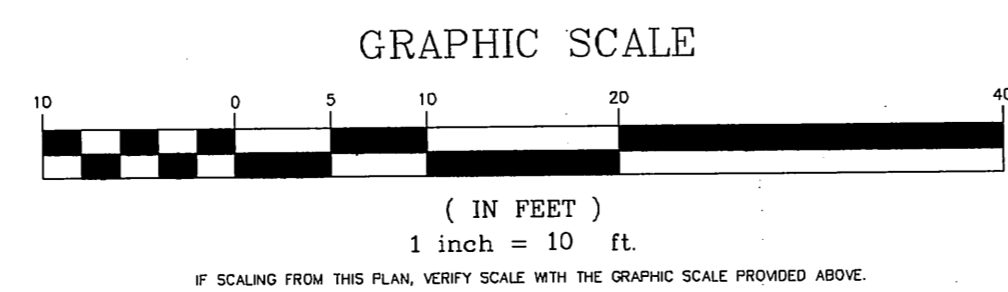
CROSS - SECTIONS  
INTERSECTION IMPROVEMENTS  
at the Intersection of  
HEBRON AVENUE  
and  
NEW LONDON TURNPIKE  
GLASTONBURY, CONNECTICUT



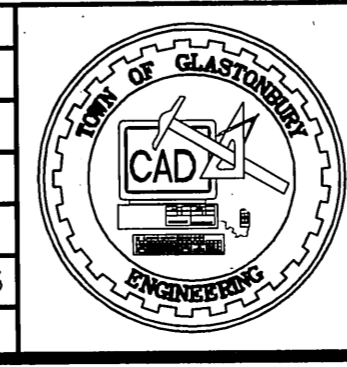
THE LOCATION OF UNDERGROUND UTILITIES DEPICTED HEREON ARE BASED ON FIELD LOCATIONS AND BY INFORMATION PROVIDED BY OTHERS. THEIR TRUE LOCATIONS MAY VARY FROM THOSE INDICATED, AND ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. IF APPLICABLE UTILIZE THE "CALL BEFORE YOU DIG" NUMBER (1-800-922-4455), TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES, AND RESOLVE CONFLICTS PRIOR TO STARTING CONSTRUCTION, REPAIR OR DESIGN.

ALL UTILITY INFORMATION AND DATA SHOWN OR INDICATED IN THE CONTRACT DOCUMENTS ARE COMPILED FROM MAPS AND DATA FURNISHED BY OTHERS. ANY SUCH INFORMATION SHOULD NOT BE CONSTRUED AS ACCURATE OR COMPLETE AND THE CONTRACTOR SHALL VERIFY ALL LOCATIONS PRIOR TO CONSTRUCTION.

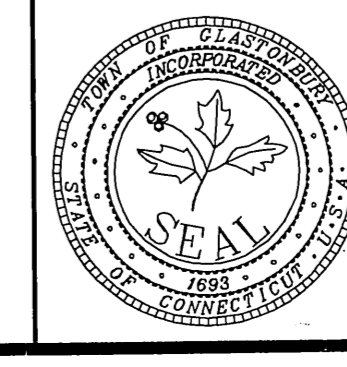
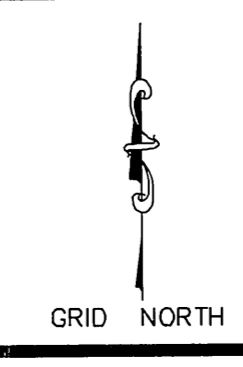
MANUAL REVISIONS TO THIS DOCUMENT ARE PROHIBITED. ALL REVISIONS MUST BE PERFORMED ON CADD FILE.  
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DRAWING ISSUE STATUS		
NO.	DESCRIPTION	DATE
1.	ISSUED FOR CONSTRUCTION	5/30/2013



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ST. FILE:	
DO NOT SCALE THIS DRAWING. USE THE DIMENSIONS GIVEN. IF THERE ARE ANY DISCREPANCIES OR QUESTIONS, CONTACT THE TOWN OF GLASTONBURY, ENGINEERING OFFICE.	



CROSS - SECTIONS  
INTERSECTION IMPROVEMENTS  
at the Intersection of  
HEBRON AVENUE  
and  
NEW LONDON TURNPIKE  
GLASTONBURY, CONNECTICUT

MOVEMENT DIAGRAM																												
NONE	MOVEMENT DIAGRAM																											
	PHASE 1		PHASE 2 (PRE-EMPT 2)			PHASE 3			PHASE 4 (PRE-EMPT 1)			PHASE 5			PHASE 6 (PRE-EMPT 2)			PHASE 7			PHASE 8 (PRE-EMPT 1)			PED PHASE				
NTOR	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
1	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
2	R	R	R	R	R	R	R	R	R	R	R	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	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	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	R	R	R	R	R	R
6	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
7	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
8	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
9	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
P	OFF																											
MIN.	5	3	1	7	3	1	5	3	1	15	3	1	5	3	1	7	3	1	5	3	1	15	3	1	7/10	4	0.1	
MAX.	25	5	3	40	5	3	20	5	3	50	5	3	20	5	3	50	5	3	20	5	3	50	5	3	10/15	4	0.1	
MIN GRN	5			7			5			15			5			7			5			15			7			
WALK																												
PED CLR																												
VEH EXT	2			2			2			2			2			2			2			2			2			
MAX 1	18			26			7			33			7			39			7			35			35			
MAX 2	13			23			5			32			5			32			5			32			32			
YELLOW		3		3.6			3			3.6			3			3.6			3			3.6			3.6			
RED			1				1						1						1						1			
ADD INIT																												
MAX INIT																												
TBR																												
TTR																												
MIN GAP																												
MODE	NON-LOCK			NON-LOCK			NON-LOCK			MIN. RECALL THIS PHASE			NON-LOCK			NON-LOCK			NON-LOCK			MIN. RECALL THIS PHASE			NON-LOCK			
INT START																												

ENERGY BY TOWN  
MAINT LEVEL  
METERED SERVICE

ADDRESS #  
SERVICE POLE #4198

INTERSECTION #

SIGNAL FACES

OFFICE RECORD  
REVISION #  
OSTA # 053-1304-01  
SIGNAL REVISED  
SIGNAL REVISED, NEW EQUIPMENT INSTALLED AND ADDED ACCESSIBLE PEDESTRIAN SIGNAL.

TECHNICAL NOTES (CONTINUED)

PERCUSSIVE TONE ONLY DURING PEDESTRIAN WALK INTERVAL.  
MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 9 PEDESTRIAN CLEARANCE INTERVAL.  
\*ALL ALT. PED. CLR. TIME MUST EQUAL ACTUAL PHASE PED. CLR. TIME.

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING & CONSTRUCTION  
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL PLAN  
TOWN OF GLASTONBURY  
HEBRON AVENUE AT  
NEW LONDON TURNPIKE

REV #

LEGEND:  
R RED  
Y YELLOW  
G GREEN  
FL FLASHING  
←-R RED ARROW  
←-Y YELLOW ARROW  
←-G GREEN ARROW  
W/WALK/PED. CLR  
D/W DON'T WALK

TOWN SIGNAL

DETECTORS

IDENT	SIZE (WXL)	TURNS	MODE	FUNCTION	T I M E	DAYS	COORDINATION TYPE - NONE	PERMIS PERIOD	SYSTEM LOC	TECHNICAL NOTES
D1	6' X 34"	VIDEO	PRESENCE	MAX 1	1100-1300 1500-1800	M-F	CYCLE	0 SEC	MASTER	STANDARD OVERLAP SKIP FEATURES APPLY COUNTDOWN ONLY DURING FLASHING PEDESTRIAN CLEARANCE INTERVAL. PHASES 1 & 5 TO DRIVE FACES 1 & 5 ←-Y AND ←- ONLY. PHASES 2 & 6 TO DRIVE FACES 1 & 5 R, Y AND G. PHASES 3 & 7 TO DRIVE FACES 3 & 7 ←-Y AND ←- ONLY. PHASES 4 & 8 TO DRIVE FACES 3 & 7 R, Y AND G. PRE-EMPTION TO BE INOPERATIVE DURING FLASH OPERATION. PHASE 2 ON TO OMIT PHASE 1. PHASE 6 ON TO OMIT PHASE 5. PHASE 4 ON TO OMIT PHASE 3. PHASE 8 ON TO OMIT PHASE 7.
D2	6' X 34"	VIDEO	PRESENCE	MAX 2	ALL OTHER TIMES					
D3	6' X 34"	VIDEO	PRESENCE	FLASH	FUTURE					
D4	6' X 34"	VIDEO	PRESENCE							
D5	6' X 34"	VIDEO	PRESENCE							
D6	6' X 34"	VIDEO	PRESENCE							
D7	6' X 34"	VIDEO	PRESENCE							
D8	18' X 34"	VIDEO	PRESENCE							

PROGRAM

COORDINATION TYPE - NONE

PERMIS PERIOD

SYSTEM LOC

TECHNICAL NOTES

LEGEND:

WIRING CALLOUTS AND SIGNING FOR POLE (A)

WIRING CALLOUTS AND SIGNING FOR POLE (B)

WIRING CALLOUTS AND SIGNING FOR POLE (C)

WIRING CALLOUTS AND SIGNING FOR POLE (D)

PHASING SEQUENCE

PHASE 1

PHASE 2

PHASE 3

PHASE 4

PHASE 5

PHASE 6

PHASE 7

PHASE 8

PHASE 9

PHASE 10

PHASE 11

PHASE 12

PHASE 13

PHASE 14

PHASE 15

PHASE 16

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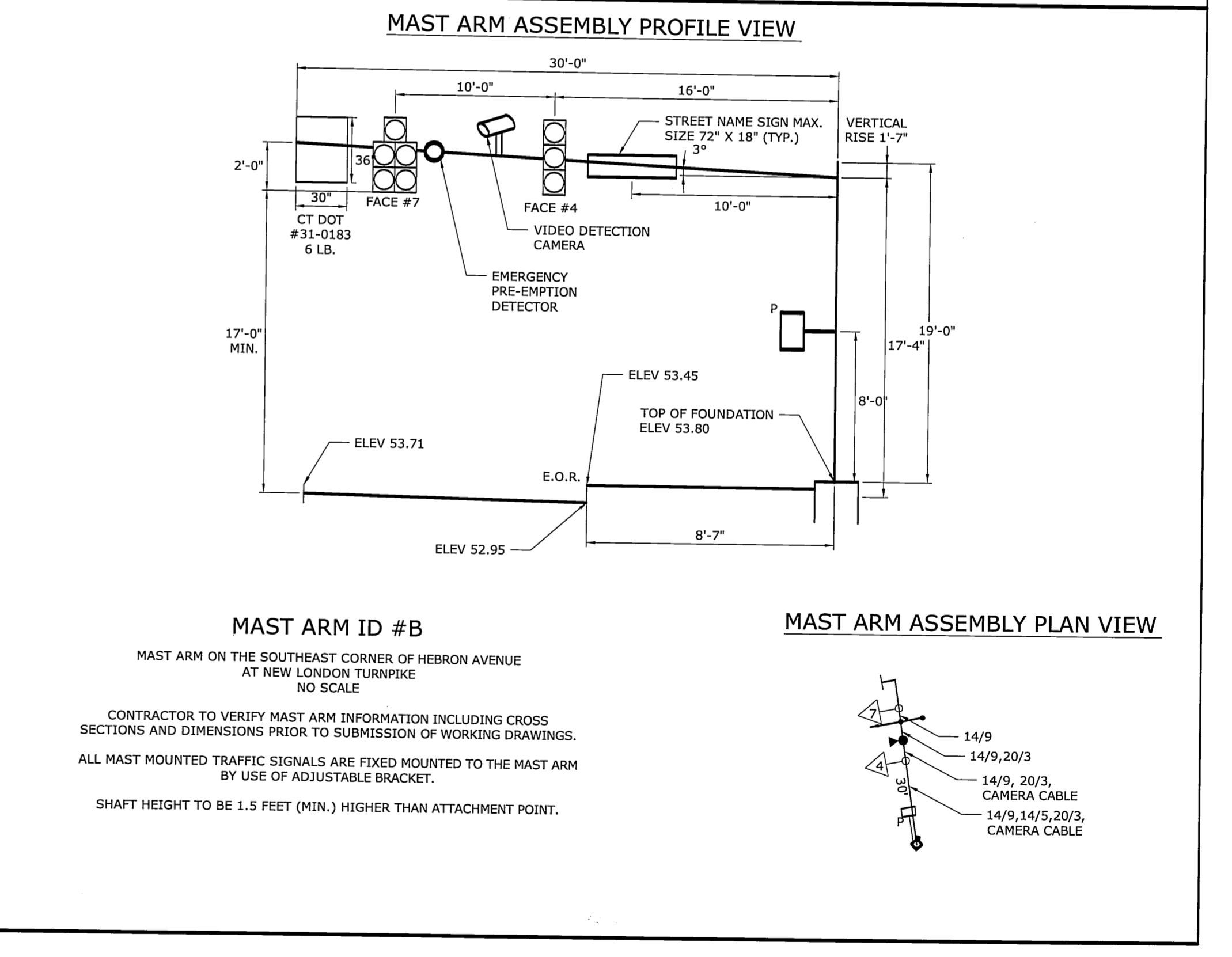
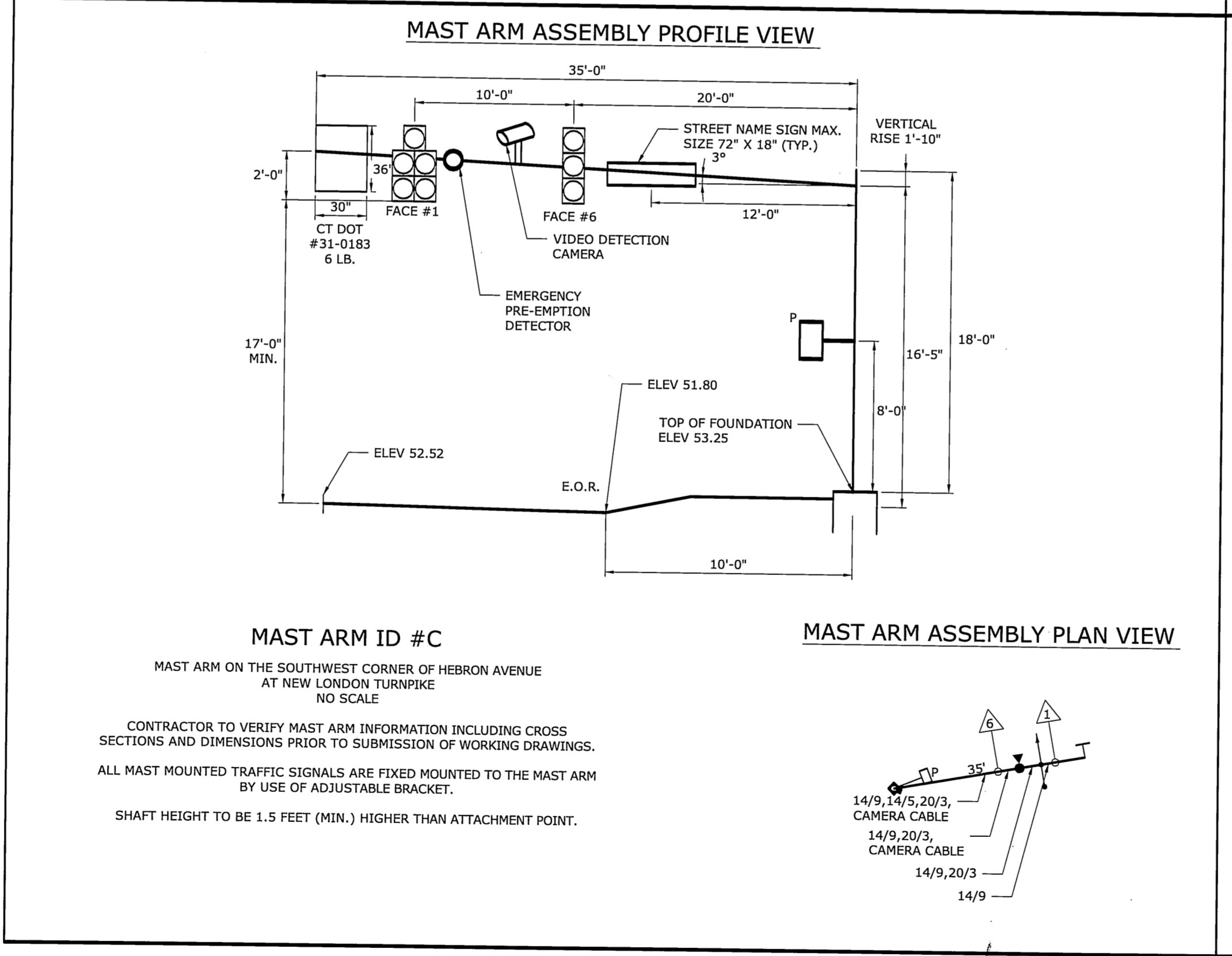
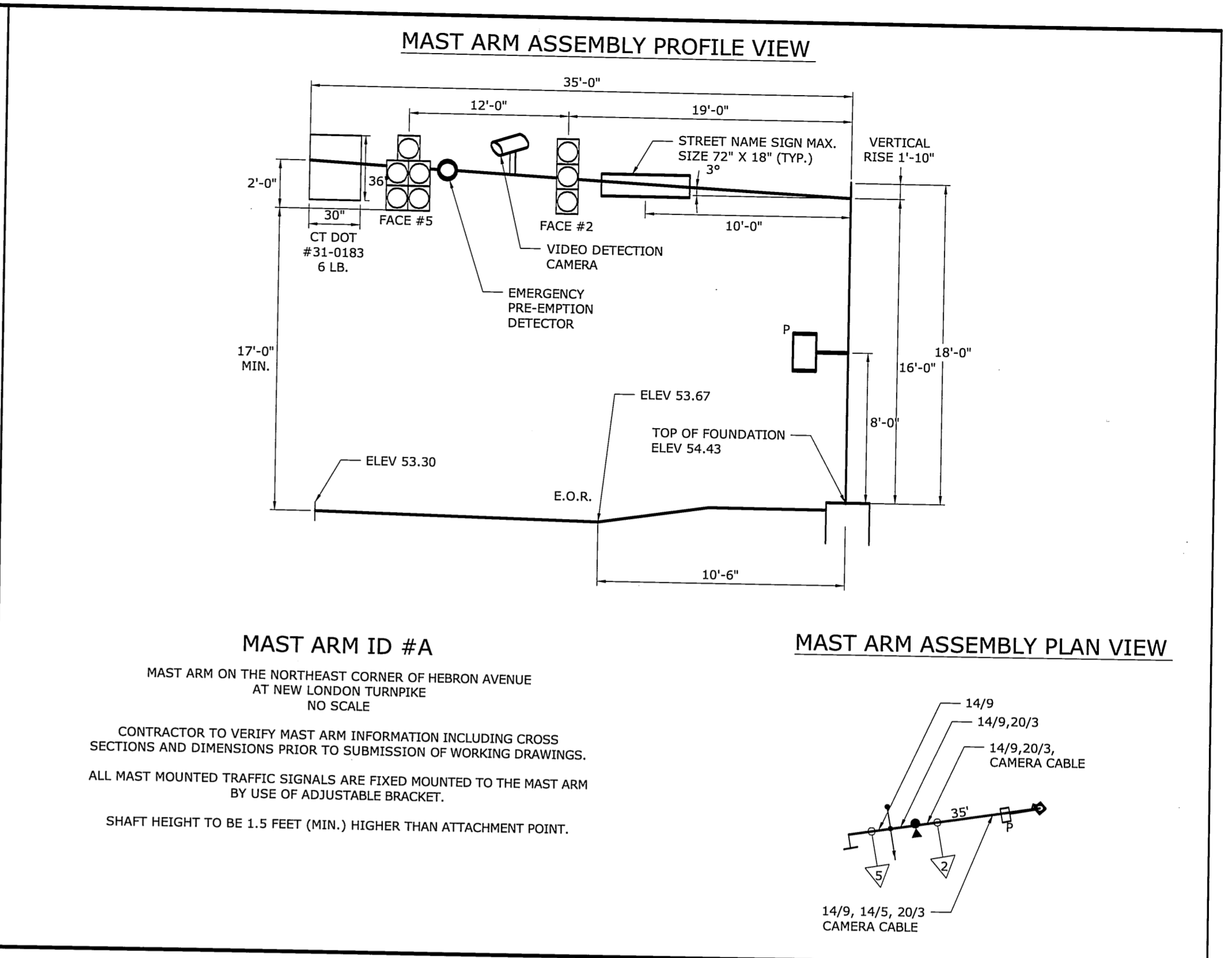
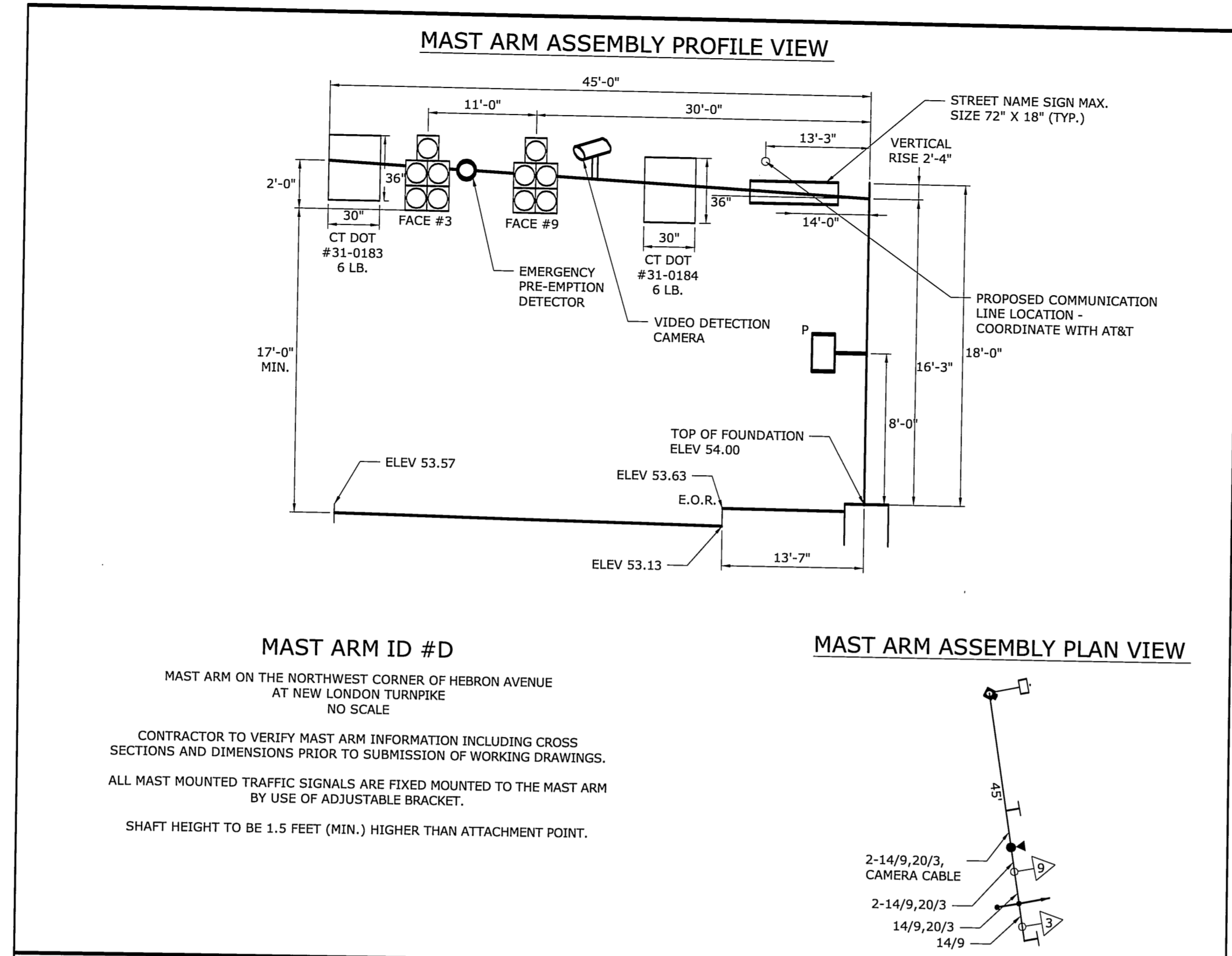
PHASE 540

PHASE 541

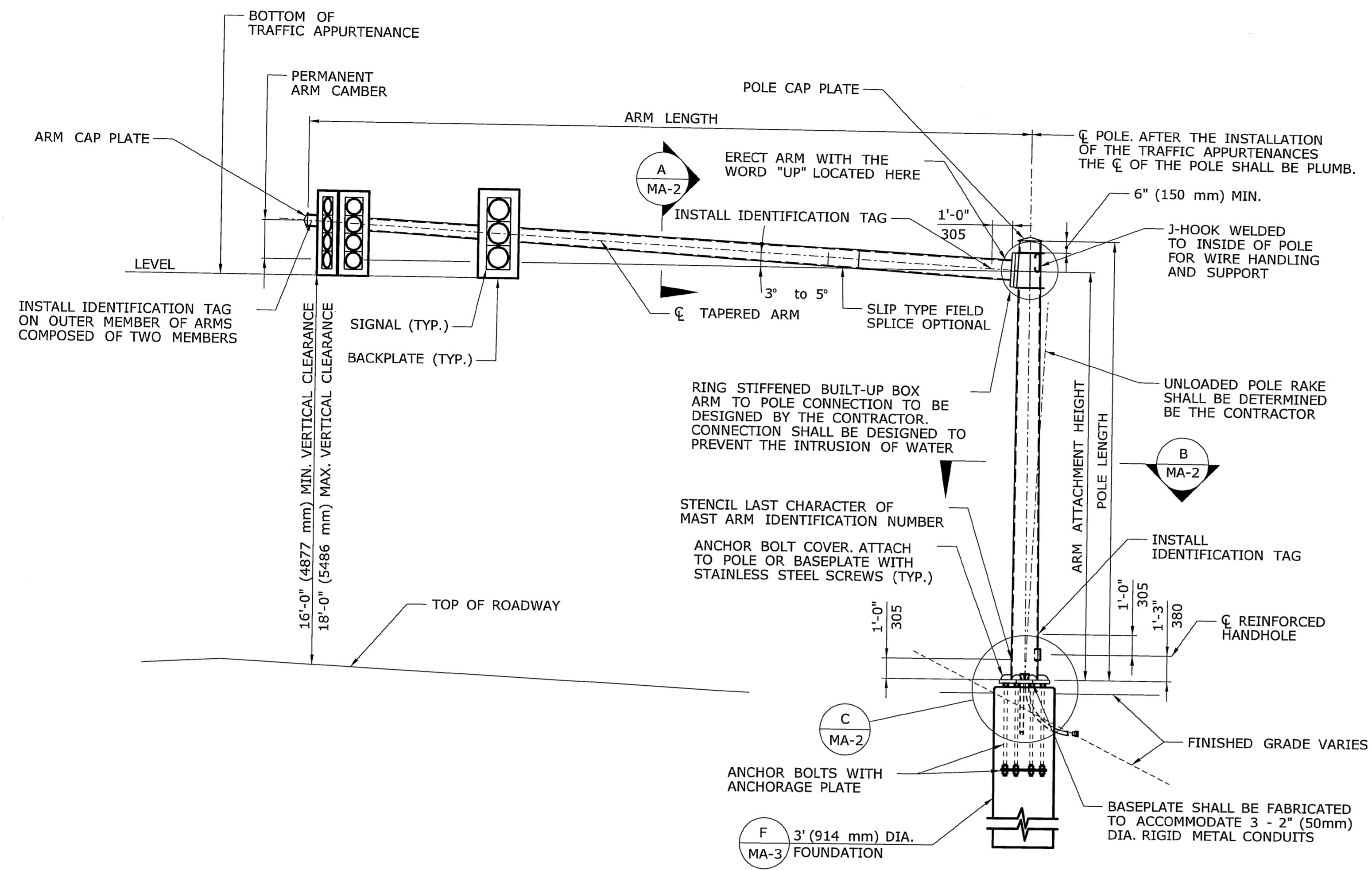
PHASE 542

PHASE 543

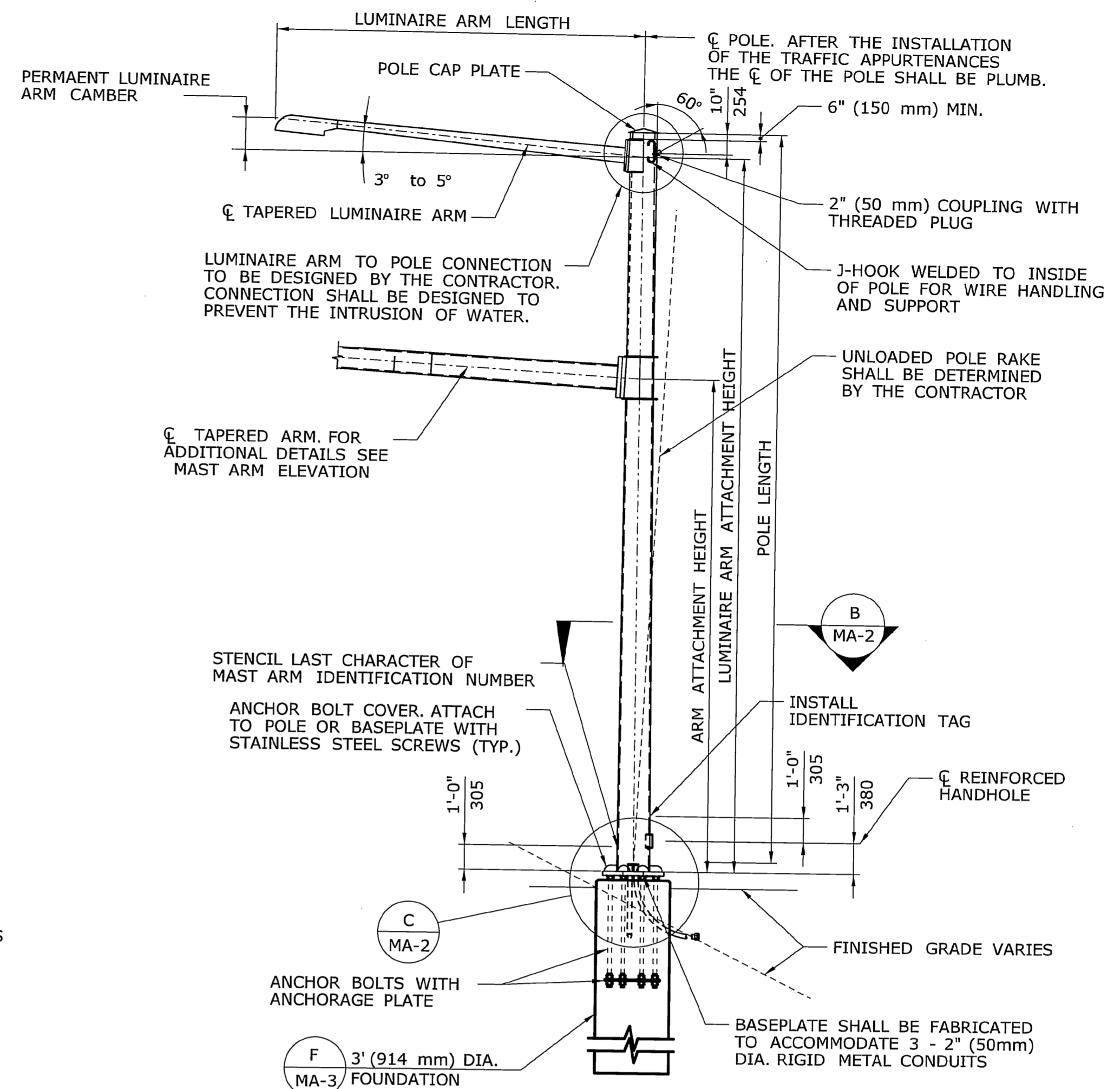




DESIGNER/DRAFTER: <b>TMM</b>	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/BLOCK:	PROJECT TITLE: <b>HEBRON AVENUE AT NEW LONDON TURNPIKE</b>	TOWN: <b>GLASTONBURY</b>	PROJECT NO.:		
CHECKED BY: <b>MGV</b>				DRAWING TITLE: <b>MAST ARM CROSS SECTIONS</b>	DRAWING NO.:		
REVISION DESCRIPTION	SHEET NO. 1	Plotted Date: \$DATES	Filename: \$FILES			SHEET NO.:	<b>9</b>



**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".

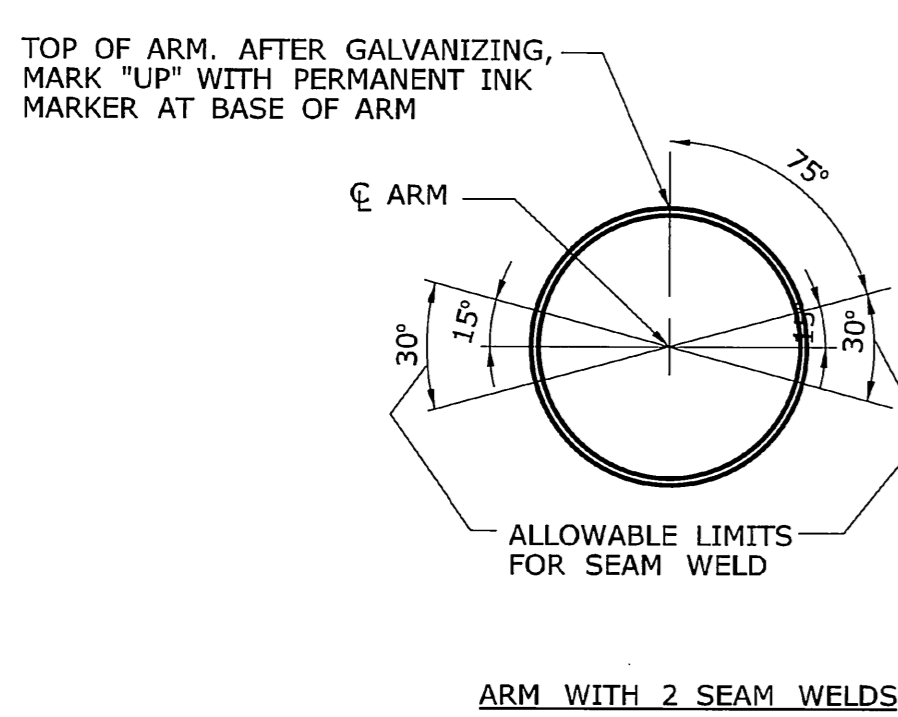
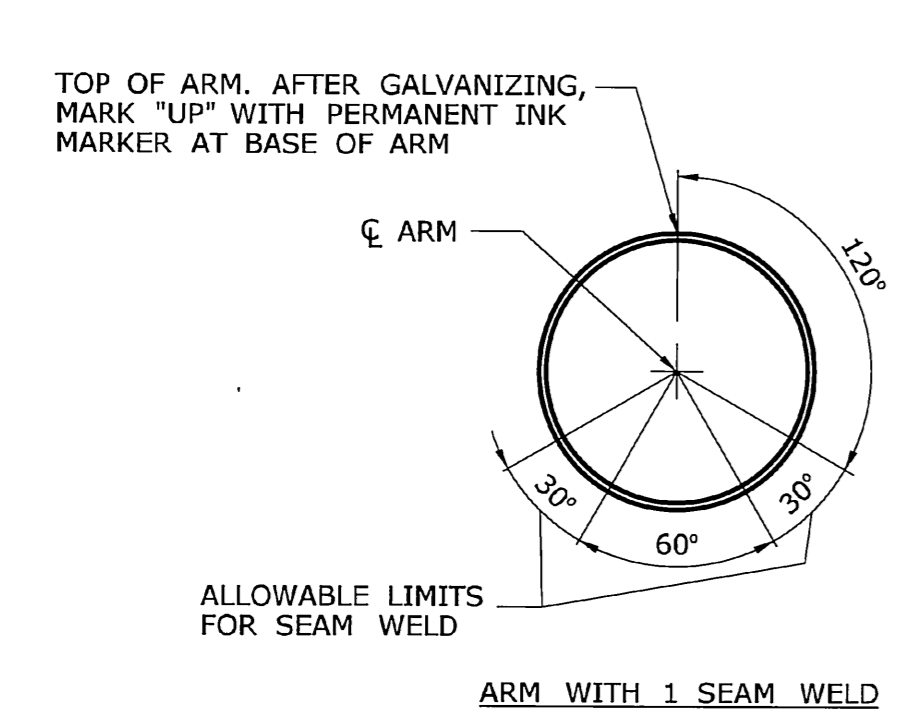
THE DIMENSIONS OF THE MAST ARM ASSEMBLY AND DETAILS OF THE TRAFFIC APPURTENANCES SUPPORTED BY THE MAST ARM ASSEMBLY ARE SHOWN ON THE TRAFFIC SIGNAL PLANS, ELEVATIONS, CROSS-SECTIONS OR IN THE SPECIAL PROVISIONS. THE ARM AND POLE LENGTHS AND THE ATTACHMENT HEIGHTS SHALL BE VERIFIED BY THE CONTRACTOR BASED 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".

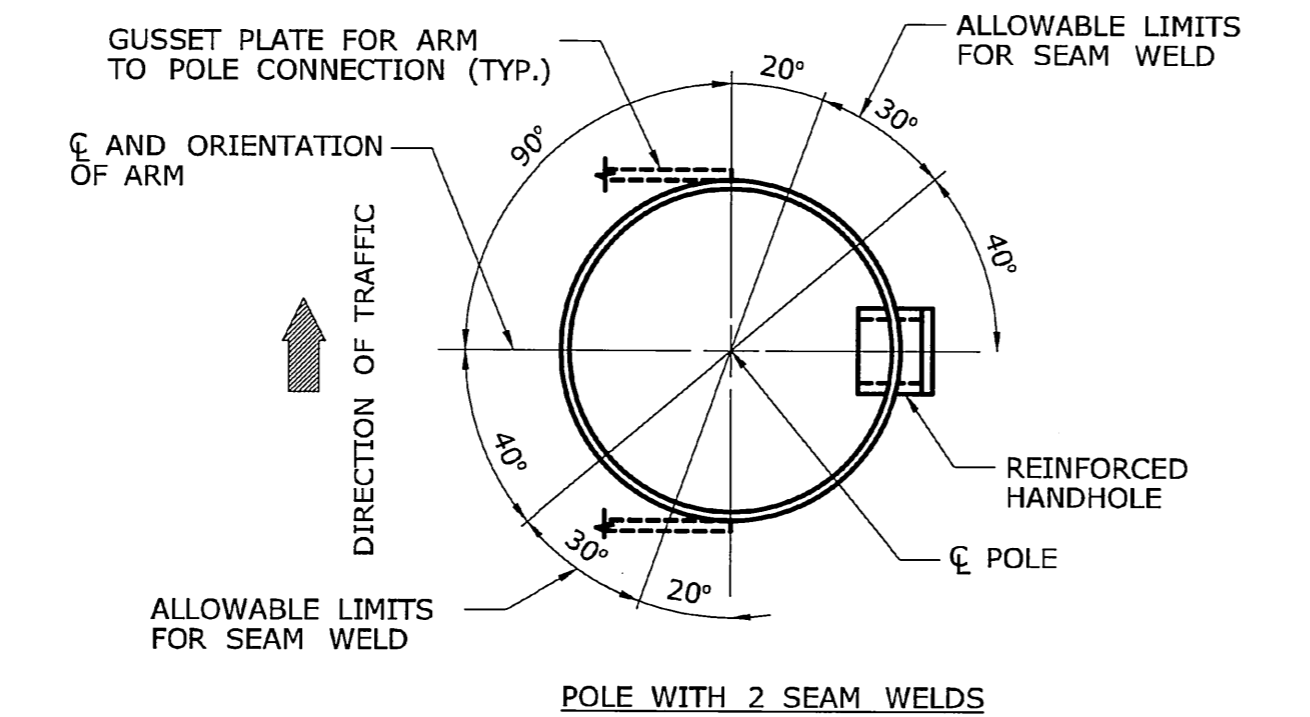
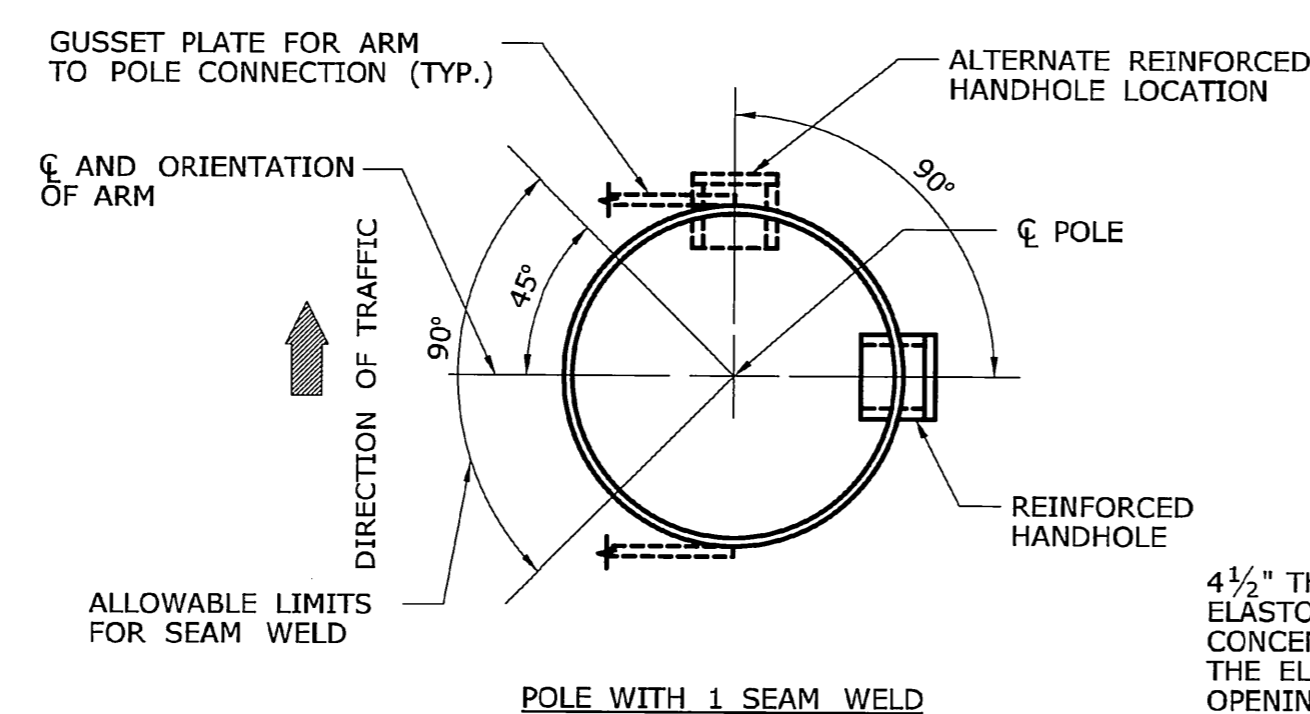
THE MAST ARM SHALL BE DESIGNED FOR THE LOAD EFFECTS DUE TO THE ACTUAL TRAFFIC APPURTENANCES (SIGNALS, SIGNS, LUMINAIRES, CAMERAS, ETC.). THE MAST ARMS SHALL ALSO BE DESIGNED FOR THE EFFECTS OF TRAFFIC APPURTENANCES DURING ALL STAGES OF CONSTRUCTION THAT MAY EXIST DURING THE PROJECT UNDER WHICH THE MAST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

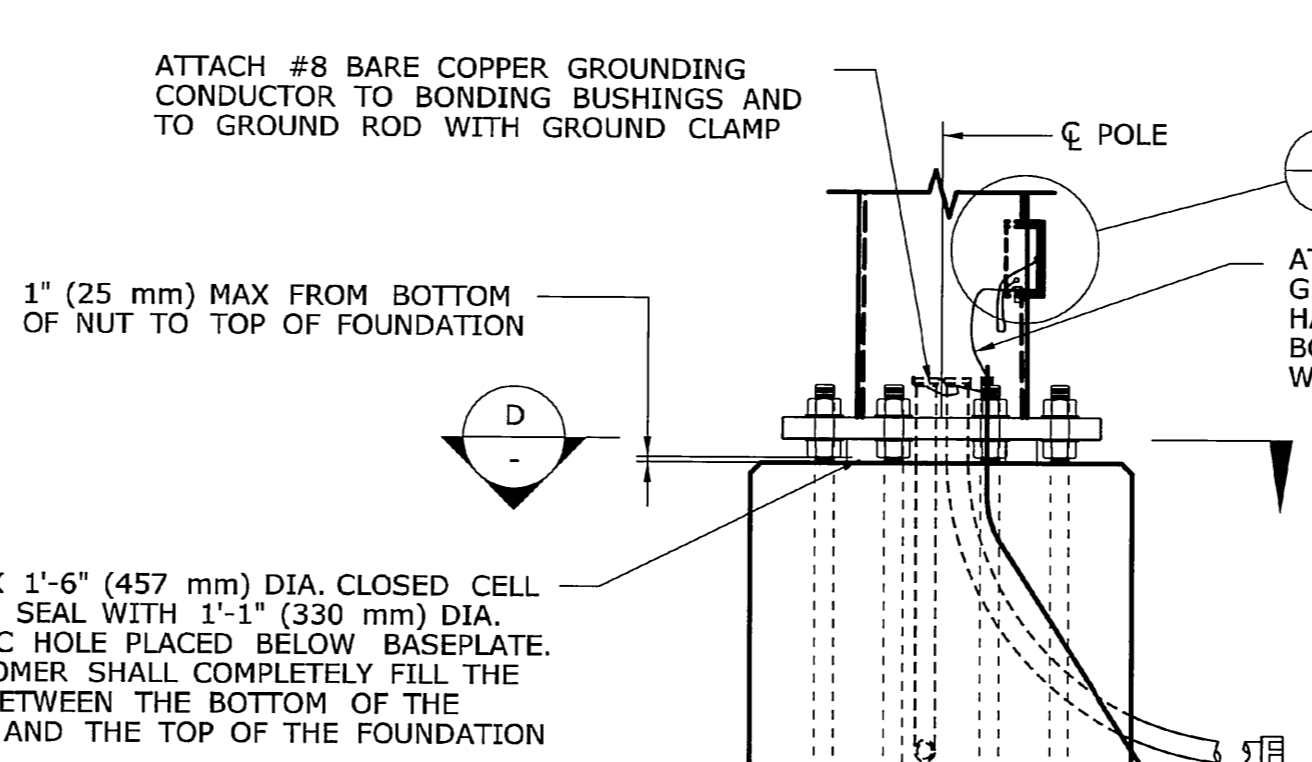
DESIGNER/DRAFTER: <b>TMM</b>	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: <b>HEBRON AVENUE AT NEW LONDON TURNPIKE INTERSECTION IMPROVEMENTS</b>	TOWN: <b>GLASTONBURY</b>	PROJECT NO.:		
CHECKED BY: <b>MGV</b>					DRAWING TITLE: <b>MAST ARM ASSEMBLY ELEVATION</b>	
REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: \$DATE\$	File Name: \$FILEAS	DRAWING NO.:	<b>MA-1</b>
					SHEET NO.:	<b>10</b>



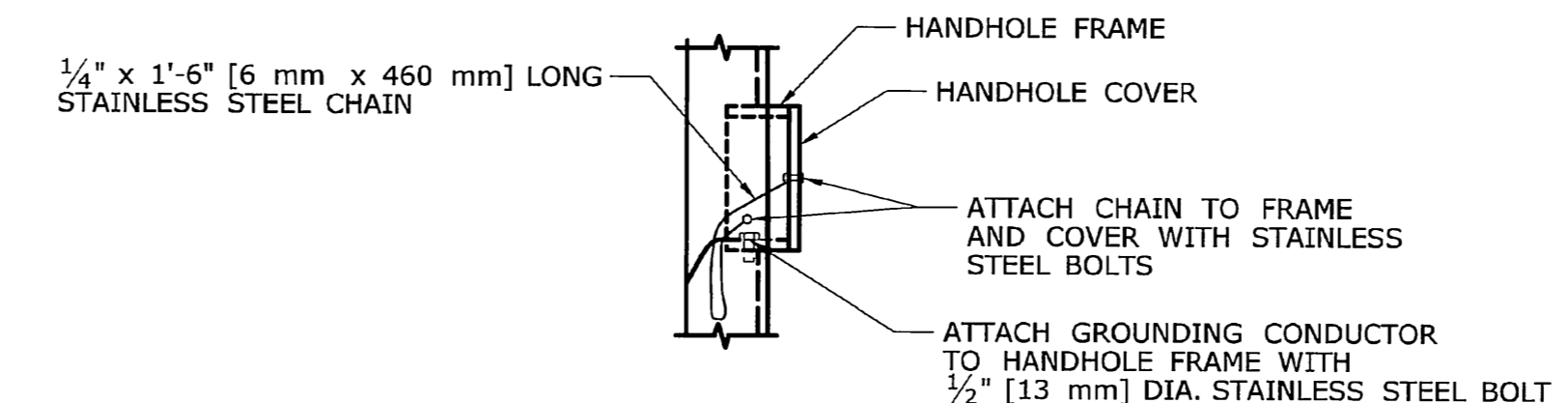
SECTION A  
SCALE: 1 1/2" = 1'-0"  
MA-1



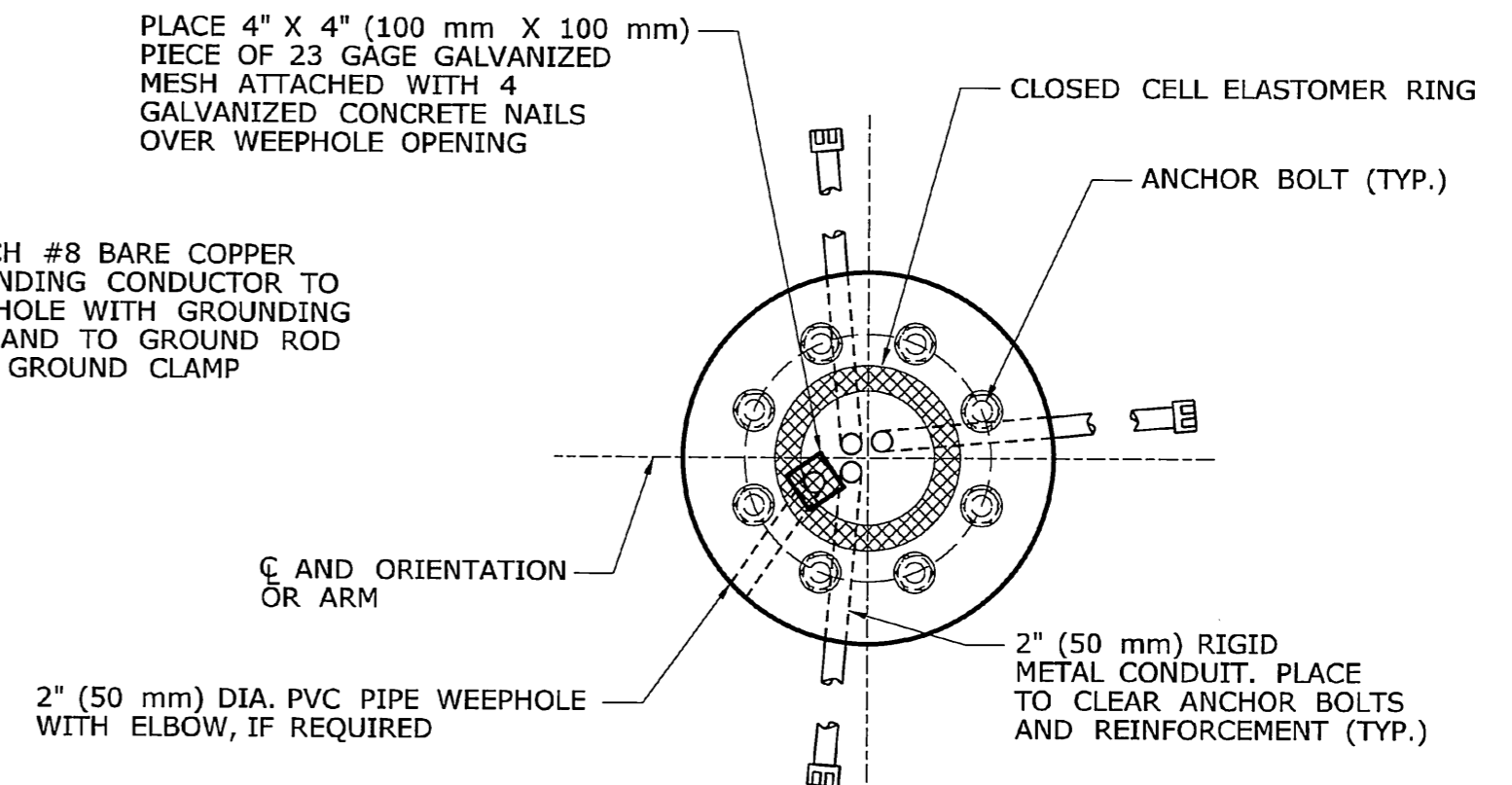
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SCALE: 1 1/2" = 1'-0"  
MA-1



SECTION C  
SCALE: 3/4" = 1'-0"  
MA-1



DETAIL E  
SCALE: 1 1/2" = 1'-0"



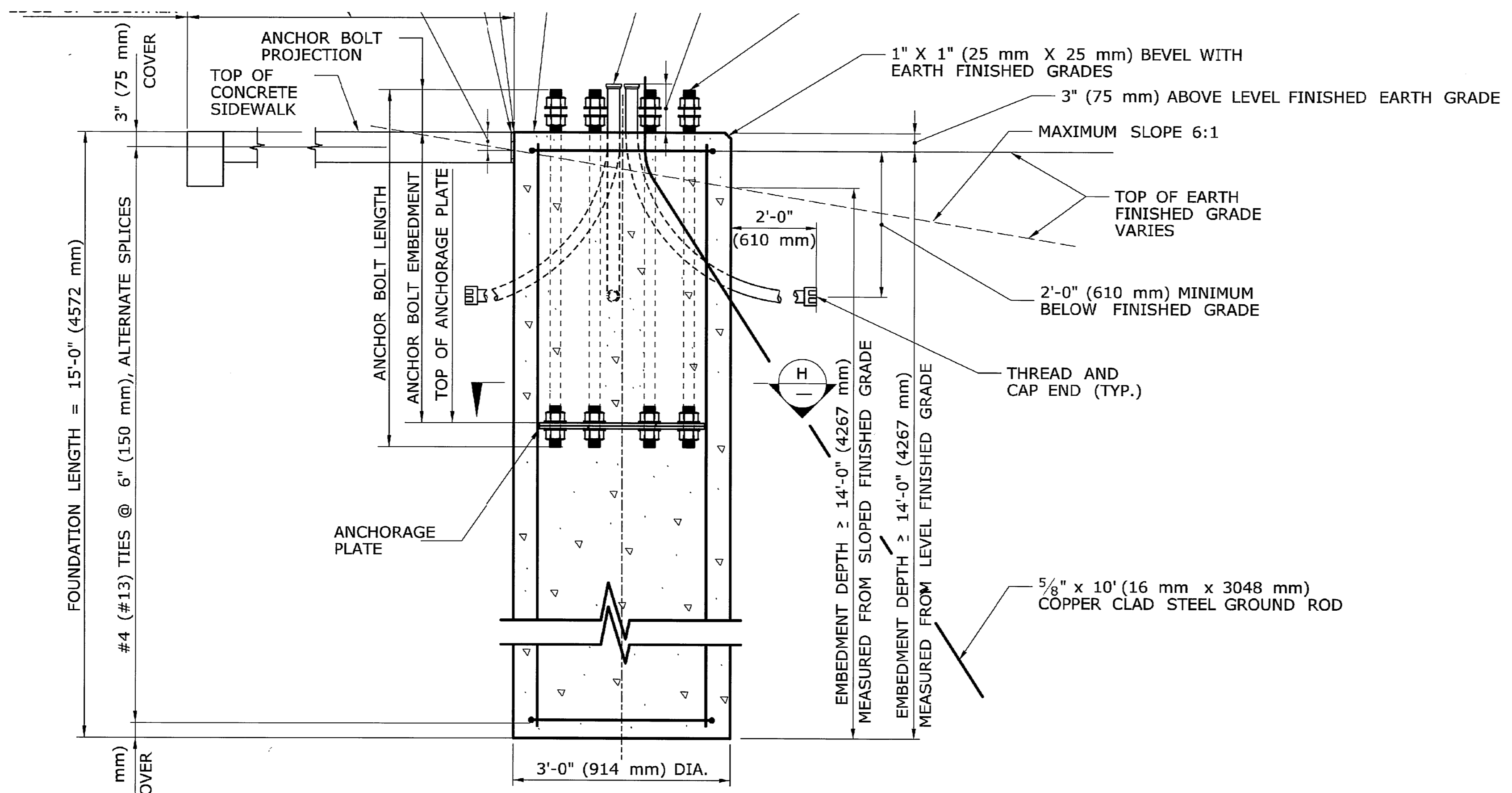
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SCALE: 3/4" = 1'-0"

IDENTIFICATION TAG  
NTS

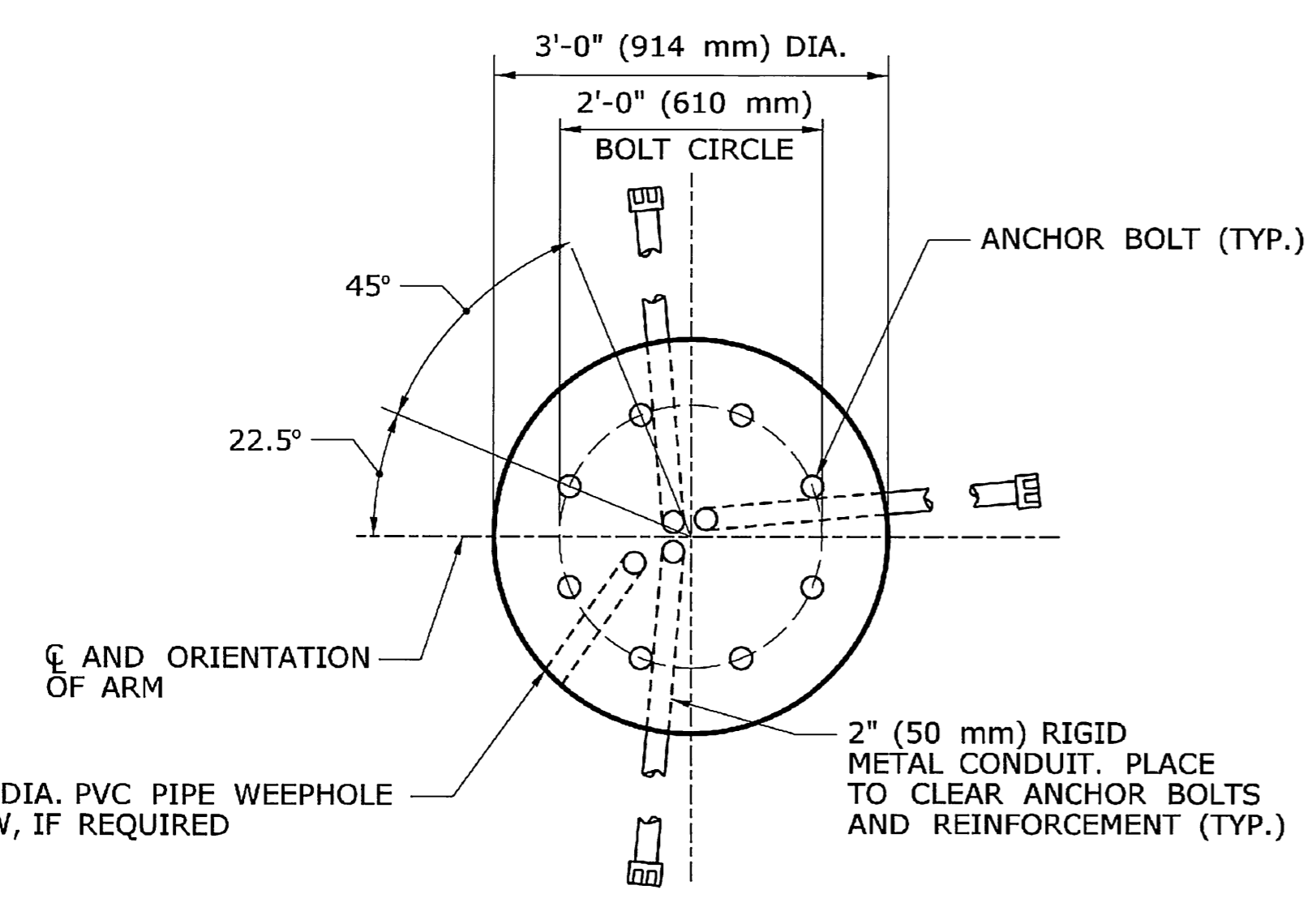
• IDENTIFICATION NUMBER:  
• MANUFACTURER:  
• DATE OF MANUFACTURE: MM/YY  
• ARM LENGTH: IN FEET (METERS)

TRAFFIC APPURTENANCE PROPERTIES MINIMUM DESIGN VALUES					
	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	SHEET ALUMINUM SIGN PANEL
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 <sup>2</sup> )
TOTAL SURFACE AREA	28.04 SQ. FT. (2.61 m <sup>2</sup> )	35.46 SQ. FT. (3.29 m <sup>2</sup> )	45.16 SQ. FT. (4.20 m <sup>2</sup> )	41.04 SQ. FT. (3.81 m <sup>2</sup> )	BASED ON PANEL DIMENSIONS
PROJECTED AREA, FRONT FACE	8.62 SQ. FT. (0.80 m <sup>2</sup> )	10.91 SQ. FT. (1.01 m <sup>2</sup> )	13.34 SQ. FT. (1.24 m <sup>2</sup> )	13.72 SQ. FT. (1.28 m <sup>2</sup> )	BASED ON PANEL DIMENSIONS
PROJECTED AREA, BOTTOM FACE	1.18 SQ. FT. (0.11 m <sup>2</sup> )	1.18 SQ. FT. (0.11 m <sup>2</sup> )	1.18 SQ. FT. (0.11 m <sup>2</sup> )	2.58 SQ. FT. (0.24 m <sup>2</sup> )	BASED ON PANEL DIMENSIONS
<p>NOTES:</p> <p>THE TABULATED VALUES ARE THE MINIMUM VALUES THAT SHALL BE USED FOR THE DESIGN.</p> <p>MAST ARMS SHALL BE DESIGNED ASSUMING ALL TRAFFIC SIGNALS ARE COMPOSED OF 12" (305 mm) DIAMETER SECTIONS WITH BACKPLATES.</p> <p>THE PROJECTED FRONT FACE AREA IS IN A PLANE PARALLEL TO THE PLANE FORMED BY THE ARM AND THE POLE.</p> <p>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.</p> <p>FOR TRAFFIC APPURTENANCES NOT SHOWN, THE PROPERTIES SHALL BE DETERMINED BY THE CONTRACTOR AND SUBMITTED FOR REVIEW WITH THE WORKING DRAWING SUBMITTAL.</p>					

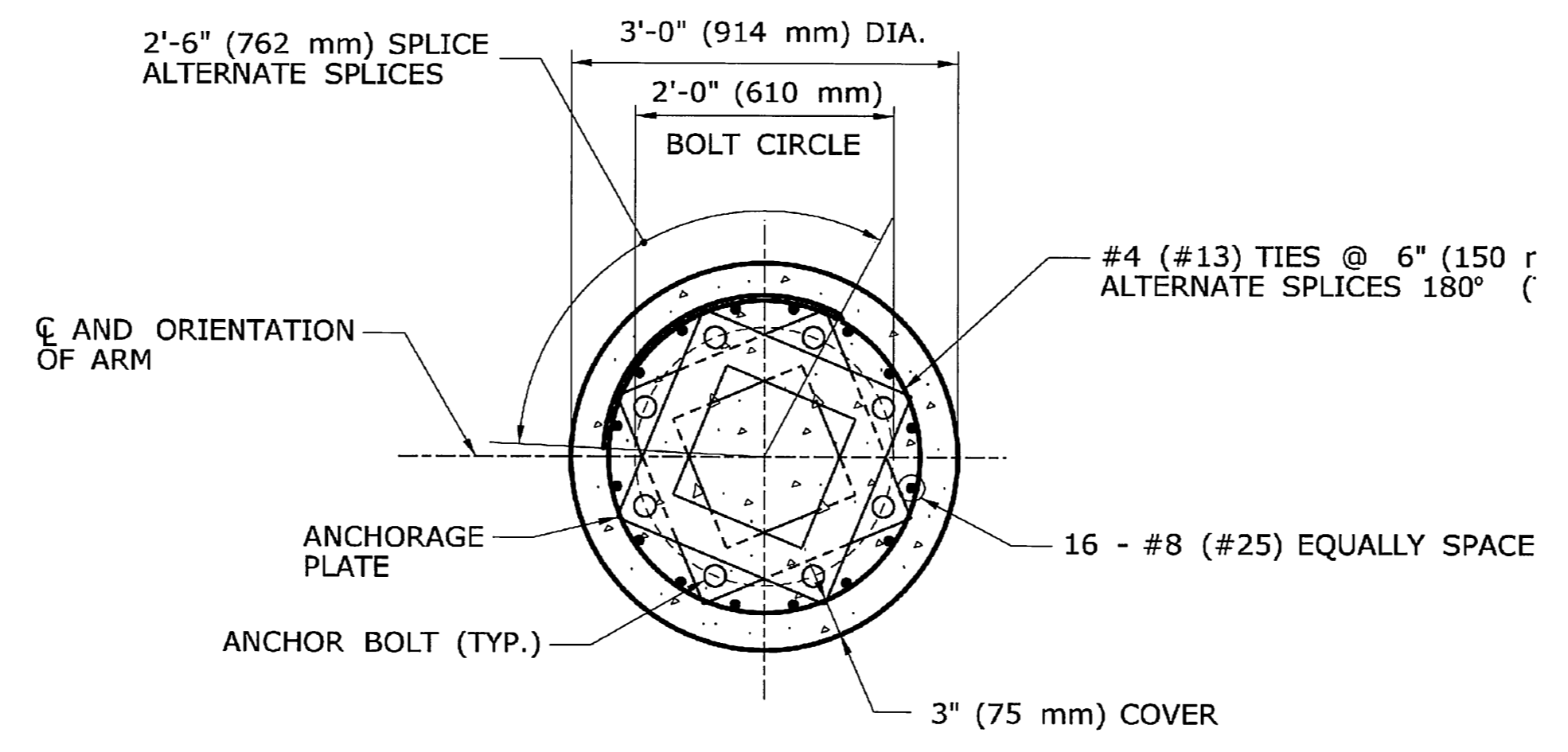
DESIGNER/DRAFTER: <b>TMM</b>	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/BLOCK:	PROJECT TITLE: <b>HEBRON AVENUE AT NEW LONDON TURNPIKE INTERSECTION IMPROVEMENTS</b>	TOWN: <b>GLASTONBURY</b>	PROJECT NO.:
CHECKED BY: <b>MGV</b>				DRAWING TITLE: <b>MAST ARM ASSEMBLY DETAILS</b>	DRAWING NO.: <b>MA-2</b>
REV. DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: \$DATE\$	Filename: \$FILEAS\$	SHEET NO.: <b>11</b>



SECTION F  
SCALE: 3/4"=1'-0" MA-1



SECTION G  
SCALE: 3/4"=1'-0"



SECTION H  
Scale: 3/4"=1'-0"

**FOUNDATION NOTES**

THE DRILLED SHAFT FOUNDATION FOR THE MAST ARM ASSEMBLY SHALL BE DESIGNED, FABRICATED, AND CONSTRUCTED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIAL PROVISION "TRAFFIC CONTROL FOUNDATION - MAST ARM."

THE FOUNDATION SHALL BE DESIGNED FOR THE SOILS AND ROCK PROPERTIES BASED ON THE SUBSURFACE CONDITIONS (CHARACTER OF THE SOIL AND ROCK, PRESENCE OF GROUND WATER, ETC.) IN THE LOCATION OF, ADJACENT TO AND BELOW THE DRILLED SHAFT FOUNDATION EXCAVATION. THE NEED AND EXTENT OF ALL SUBSURFACE EXPLORATIONS AND INVESTIGATIONS SHALL BE DETERMINED BY THE CONTRACTOR.

THE DESIGN OF THE FOUNDATION SHALL BE COORDINATED WITH THE MAST ARM ASSEMBLY AND THE MAST ARM ANCHORAGE TO ENSURE THAT THE FOUNDATION IS ADEQUATE FOR THE MAST ARM REACTIONS AND TO AVOID CONFLICTS BETWEEN THE EMBEDDED MAST ARM ANCHORAGE AND THE FOUNDATION REINFORCEMENT.

THE CONCRETE FOR THE FOUNDATION SHALL BE A CONTRACTOR DESIGNED PORTLAND CEMENT CONCRETE MIX WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH,  $f'_c$ , OF 4,000 PSI (28 MPa).

THE REINFORCEMENT SHALL BE UNCOATED AND CONFORM TO ASTM A615, GRADE 60 (ASTM A615M, GRADE 420). THE REINFORCEMENT SHALL BE ASSEMBLED WITH WIRE TIES. WELDING TO ASSEMBLE REINFORCEMENT IS NOT PERMITTED. ALL REINFORCEMENT SHALL HAVE 3" (75 mm) COVER, UNLESS OTHERWISE NOTED.

THE CONCRETE SHALL BE PLACED IN THE EXCAVATION AGAINST UNDISTURBED EARTH.

THE MAST ARM SHALL NOT BE ERECTED ON THE FOUNDATION UNTIL AFTER THE CONCRETE HAS ATTAINED A 28 DAY COMPRESSIVE STRENGTH,  $f'_c$ , GREATER THAN OR EQUAL TO 4,000 PSI (28 MPa).

THE COST OF THE FOUNDATION, INCLUDING EXCAVATION, CONCRETE AND REINFORCEMENT, INCLUDING THE DESIGN AND FABRICATION, SHALL BE PAID FOR UNDER THE ITEM "TRAFFIC CONTROL FOUNDATION - MAST ARM."

DESIGNER/DRAFTER: <b>TMM</b>		STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	PROJECT TITLE: <b>HEBRON AVENUE AT NEW LONDON TURNPIKE INTERSECTION IMPROVEMENTS</b>	TOWN: <b>GLASTONBURY</b>	PROJECT NO.
CHECKED BY: <b>MGV</b>					DRAWING NO. <b>MA-3</b>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	DRAWING TITLE: <b>MAST ARM ASSEMBLY FOUNDATION DETAILS</b>	SHEET NO. <b>12</b>

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<sub>LOOP</sub>) AND LEAD-IN CABLE (L<sub>14/2</sub>).

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

$L_{14/2} = (0.24 \mu H/FT) (D)$        $L_{14/2} = (0.78 \mu H/m) (D)$

WHERE:

L<sub>LOOP</sub> = INDUCTANCE OF INDIVIDUAL LOOP SEGMENTS IN MICROHENRIES (μH).

L<sub>14/2</sub> = 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.

$L_T = L_1 + L_2 + L_3 \text{ etc.,}$   
(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<sub>T</sub> = TOTAL INDUCTANCE OF THE SEGMENTED ARRANGEMENT.

L<sub>1</sub>, L<sub>2</sub>, L<sub>3</sub> = INDUCTANCE OF INDIVIDUAL LOOP SEGMENTS.

EXAMPLE: (IN ENGLISH)

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

$L_{LOOP} = (24/4) (4^2 + 4)$        $L_{14/2} = (0.24 \mu H/FT) (300)$

$L_{LOOP} = (6) (20)$        $L_{14/2} = (0.24) (300)$

$L_{LOOP} = 120 \mu H$        $L_{14/2} = 72 \mu H$

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

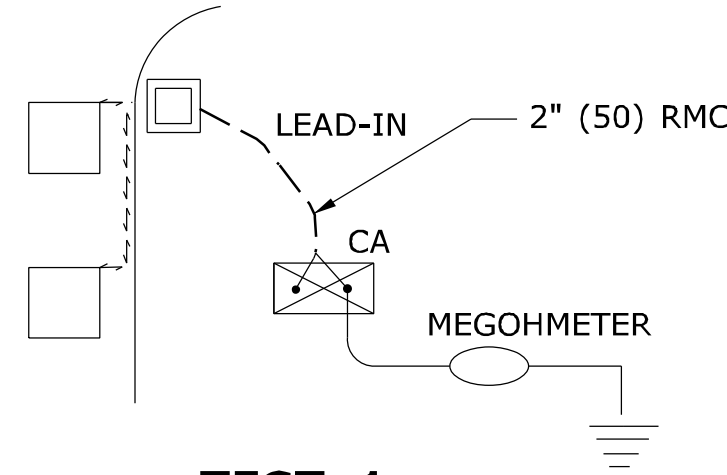
**3: POWER INTERRUPTION:**

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.

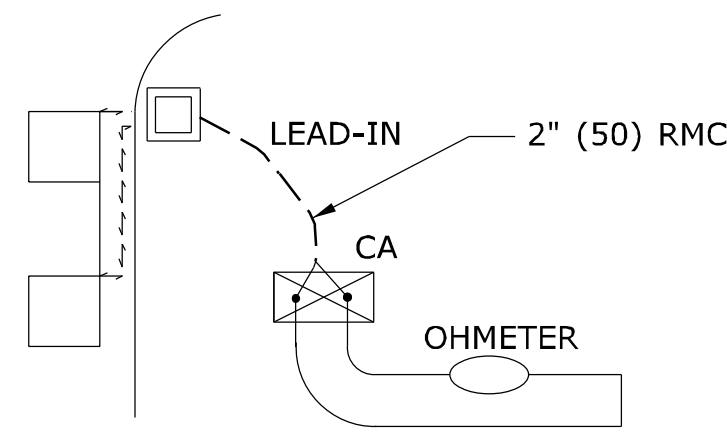
**INDUCTIVE LOOP TEST PROCEDURE**

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 (Opens 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**



**TEST 1a**



**TEST 1b**

PROJECT: \_\_\_\_\_ LOCATION: \_\_\_\_\_  
 TOWN: \_\_\_\_\_

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					

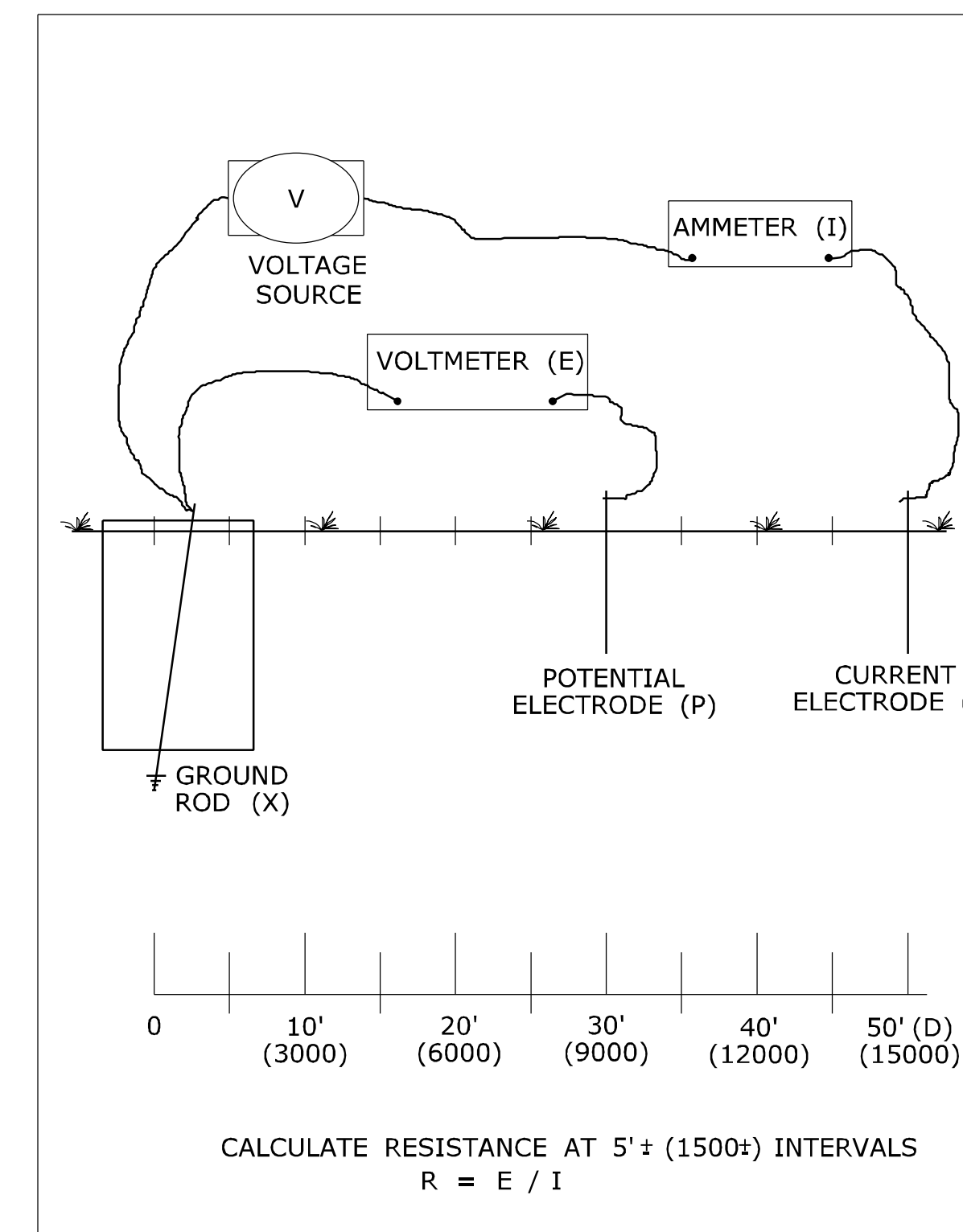
**LOOP CIRCUIT TEST DATA (EXAMPLE)**

**TEST PROCEDURE:**

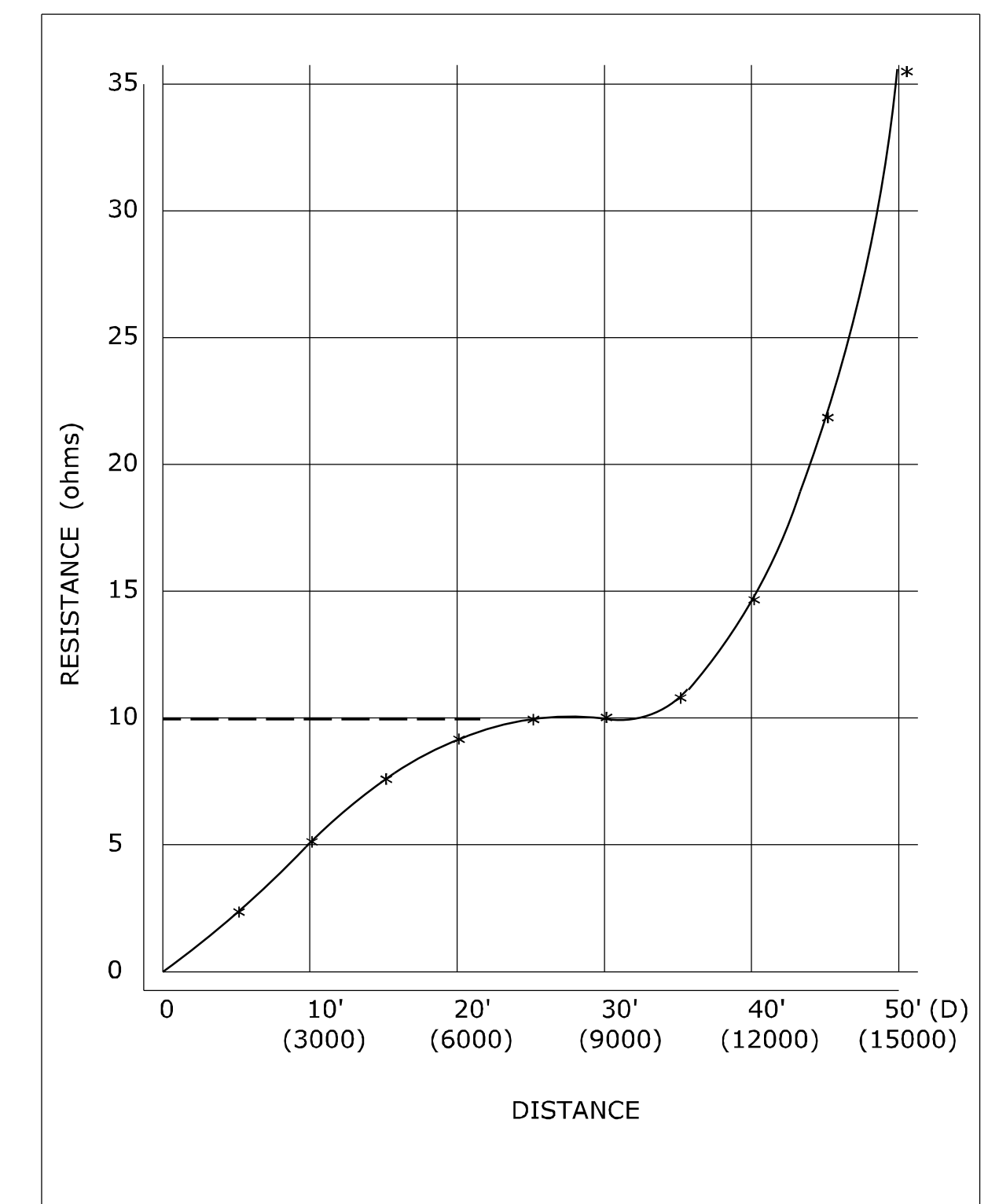
- INSERT ELECTRODE (C) A DISTANCE (D) FROM THE FOUNDATION. RECOMMEND A MINIMUM 50'.
- CONNECT A VOLTAGE SOURCE AND AMMETER BETWEEN THE FOUNDATION GROUND ROD (X) AND C.
- MEASURE THE CURRENT FLOW (I) BETWEEN X AND C.
- INSERT POTENTIAL ELECTRODE (P) AT 5' (1500) INTERVALS IN A STRAIGHT LINE TO ELECTRODE 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**

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

□	INDUCTIVE LOOP DETECTOR
---	SAW CUT
—	RIGID METAL CONDUIT
□	HANDHOLE

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

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

NOT TO SCALE

STATE OF CONNECTICUT  
 DEPARTMENT OF TRANSPORTATION

Filename: CTDOT\_TRAFFIC\_STD.dgn Model: TR-1000\_01

SUBMITTED BY: NAME/DATE/TIME:  
 Tracy L. Fogarty 2012.05.01 12:54:11-04'00'

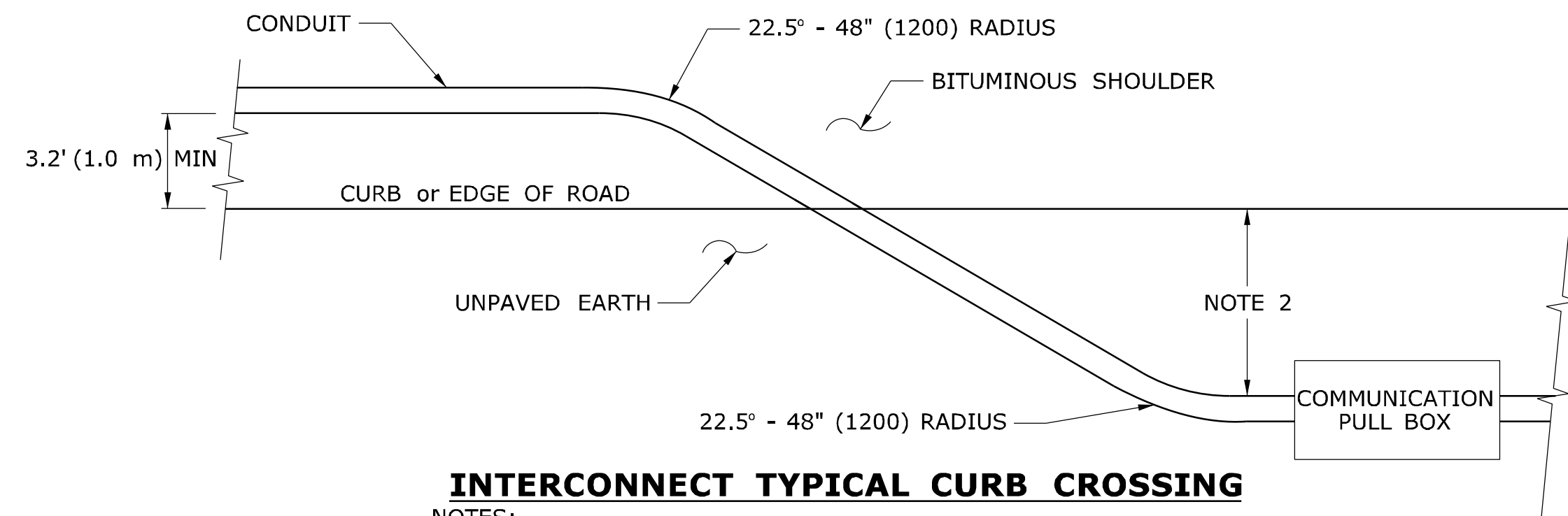
APPROVED BY: NAME/DATE/TIME:  
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CTDOT  
 STANDARD SHEET  
 OFFICE OF ENGINEERING

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

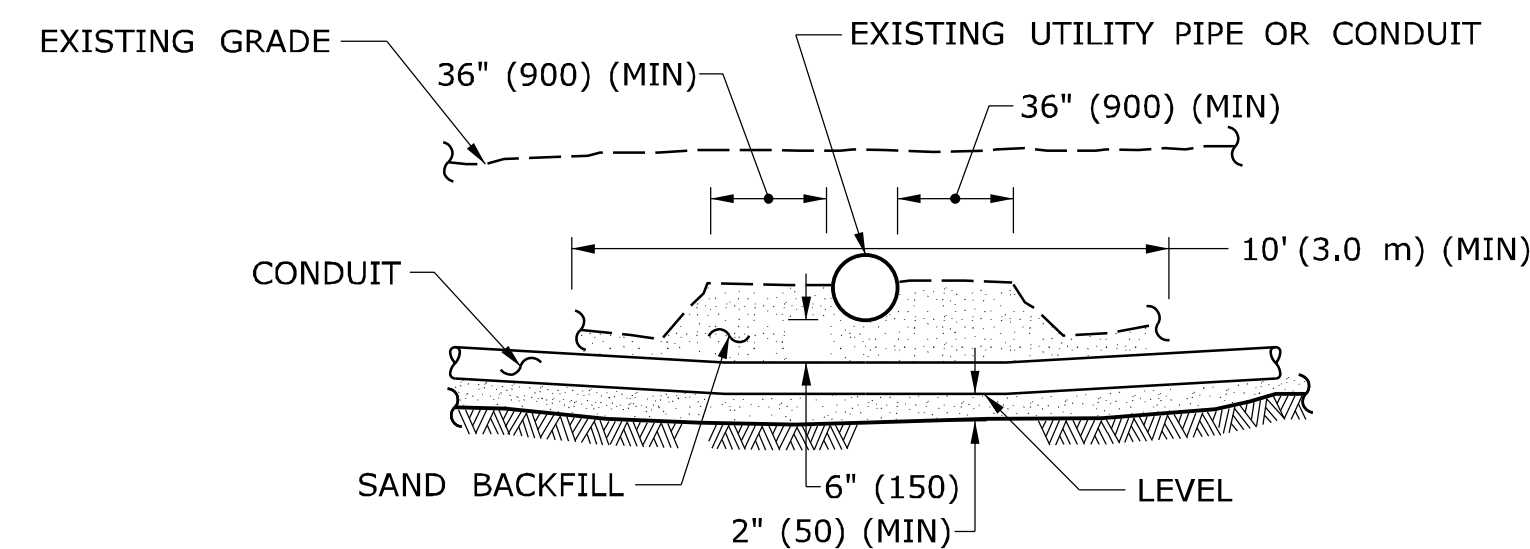
STANDARD SHEET NO.:  
**TR-1000\_01**

REV.	DATE	REVISION DESCRIPTION
1	4-2012	MINOR REVISIONS.



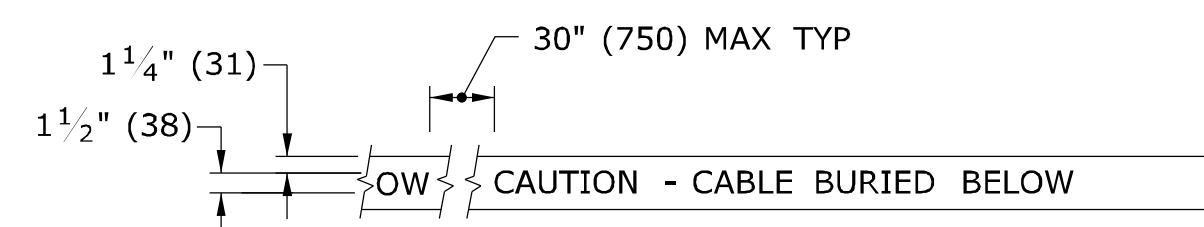
**INTERCONNECT TYPICAL CURB CROSSING**

- 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.



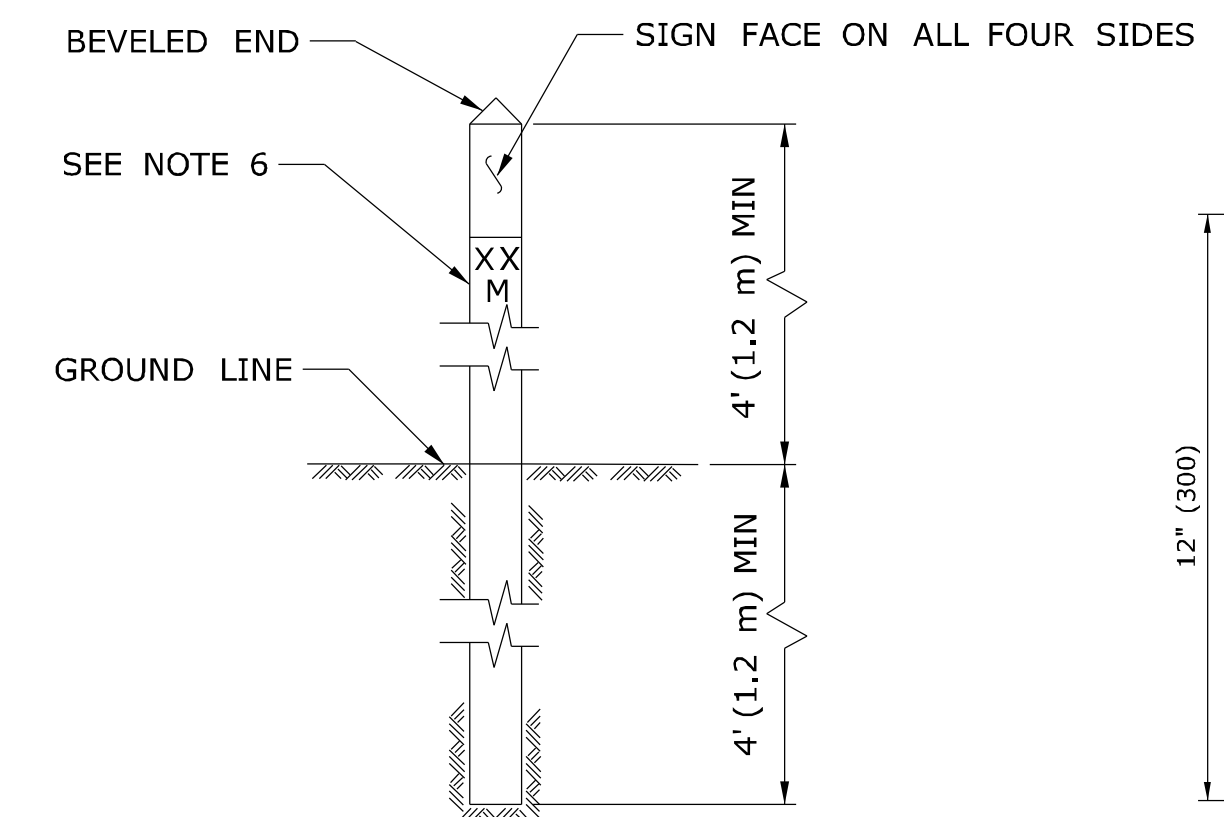
**CROSSING UNDER EXISTING UTILITY**

- NOTES:
1. WHEN ENCOUNTERED AT APPROXIMATELY THE SAME DEPTH, CROSS BENEATH.
  2. PROTECT & SUPPORT EXPOSED EXISTING UTILITY.



**DETECTABLE WARNING TAPE**

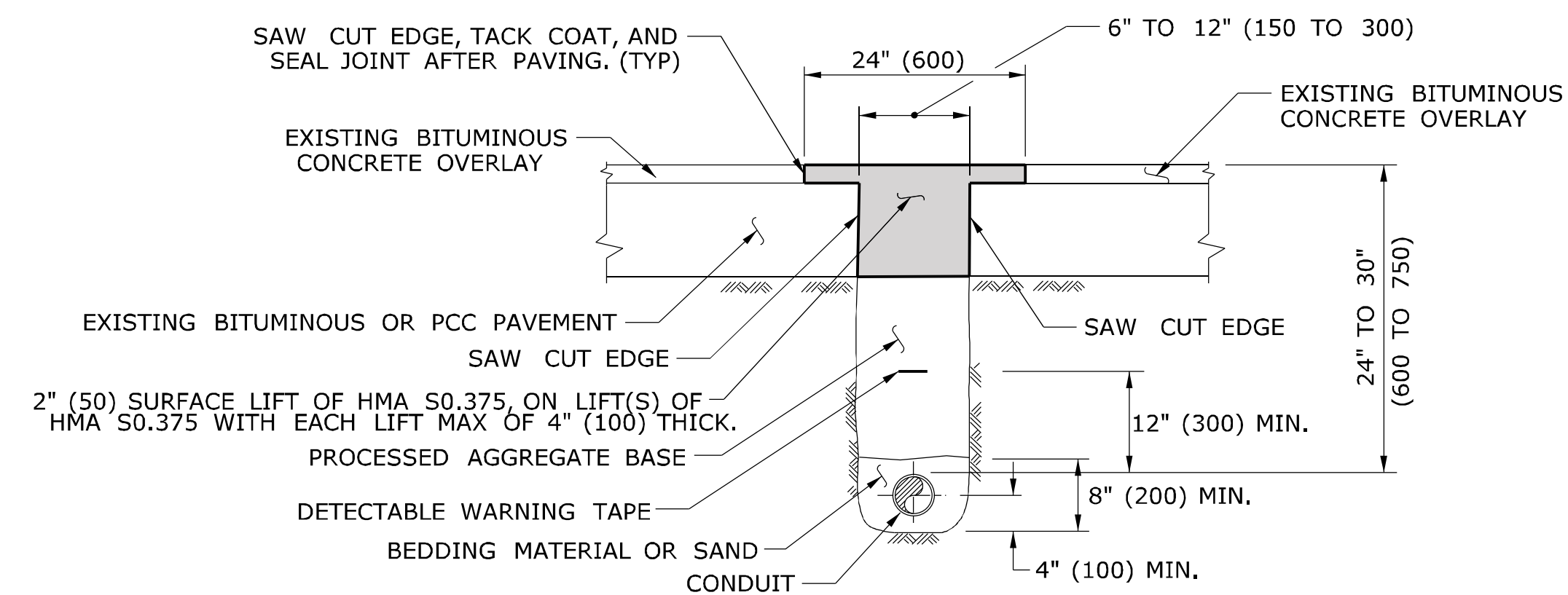
- NOTE:  
STANDARD SPECIFICATIONS, ARTICLE: 1.05.15
1. TAPE COLORS:  
COMMUNICATION - ORANGE BACKGROUND / BLACK LEGEND  
POWER - RED BACKGROUND / BLACK LEGEND



**INTERCONNECT CONDUIT IDENTIFICATION POST**

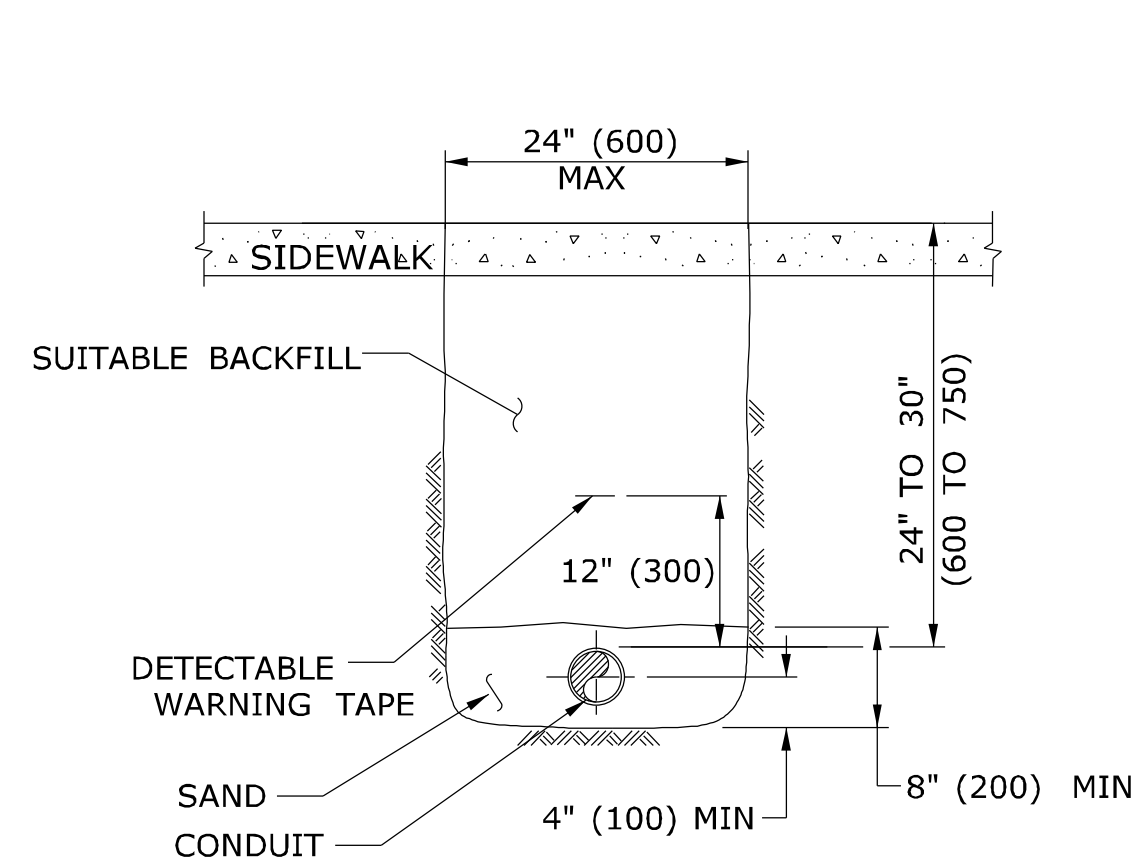
- NOTES:
1. 4" x 4" (100 x 100) NOMINAL, PRESSURE TREATED WOOD POST.
  2. ATTACH SIGN TO POST WITH 1/4" x 1 1/4" (6 x 31) STAINLESS STEEL LAG SCREW WITH NYLON WASHER ON FACE OF SIGN.
  3. SIGN COLORS: BACKGROUND - ORANGE (RETROREFLECTIVE) LEGEND - BLACK (OPAQUE).
  4. INSTALL POST APPROX 24" (600) FROM RMC IN VICINITY OF EACH PULL BOX.
  5. INSTALL POSTS BETWEEN PULL BOXES, APPROX 10' (3.0 m) OFF CURB. SPACE POSTS 1500± (460 m±) APART.
  6. 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.

**SIGN FACE DETAIL**  
SIGN # 41-4669



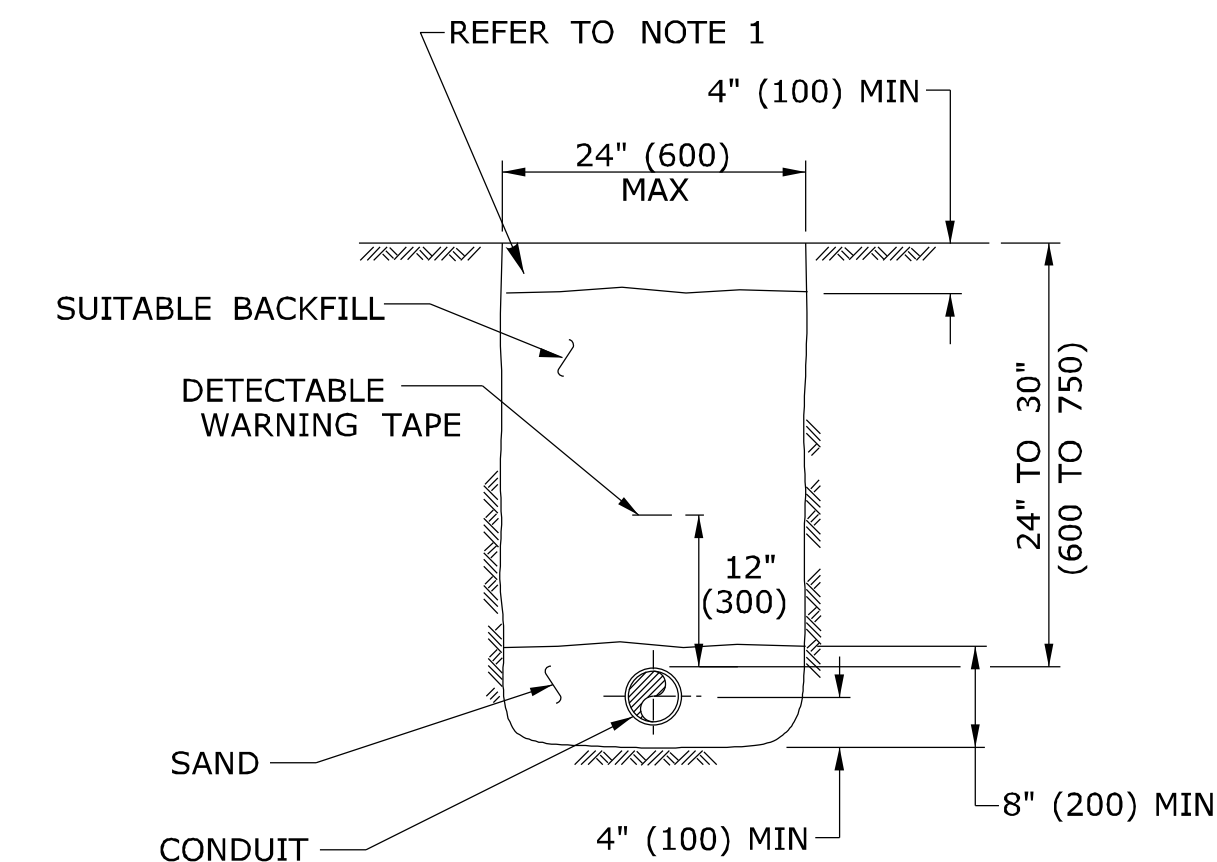
**PAVEMENT - BITUMINOUS CONCRETE OR OVERLAVED PORTLAND CEMENT CONCRETE**

- NOTES:  
STANDARD SPECIFICATIONS, ARTICLE: 3.04 & 4.06.03
1. TOTAL HOT MIX ASPHALT (HMA) THICKNESS TO MATCH EXISTING BITUMINOUS CONCRETE AND PORTLAND CEMENT CONCRETE (PCC) THICKNESS.
  2. WHEN ALLOWED BY ENGINEER, USE CONTROLLED LOW STRENGTH MATERIAL (CLSM) AS BEDDING MATERIAL. TOP OF CLSM AT LEAST 20" (500) BELOW SURFACE.



**SIDEWALK**

- NOTES:  
STANDARD SPECIFICATIONS, ARTICLE: 9.21 & 9.22
1. WHERE CONCRETE SIDEWALK DAMAGED OR CUT, REPLACE THE ENTIRE SECTION BETWEEN JOINTS. REPLACEMENT SIDEWALK IS PAID FOR AT THE CONTRACT UNIT PRICE FOR "CONCRETE SIDEWALK".



**EARTH**

- NOTES:  
STANDARD SPECIFICATIONS, ARTICLE: 9.50
1. IN MOWED AREAS: PLACE TOPSOIL, FERTILIZER, SEED, & MULCH.

- GENERAL NOTES:
1. TOP OF CONDUIT NO LESS THAN 24" (600) DEEP.
  2. COMPACT BACKFILL IN ≤ 6" (150) LIFTS. HAND COMPACTION NOT PERMITTED.

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

REV.	DATE	REVISION DESCRIPTION
1	4-2012	REVISED BITUMINOUS CONCRCTE TO HMA, & MINOR REVISIONS.

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Plotted Date: 4/14/2012

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

NOT TO SCALE

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

Submitted By: Tracy L. Fogarty  
NAME/DATE/TIME: Tracy L. Fogarty 2012.05.01 12:54:42-04'00'

Approved By: Timothy M. Wilson  
NAME/DATE/TIME: Timothy M. Wilson 2012.05.09 10:23:34-04'00'

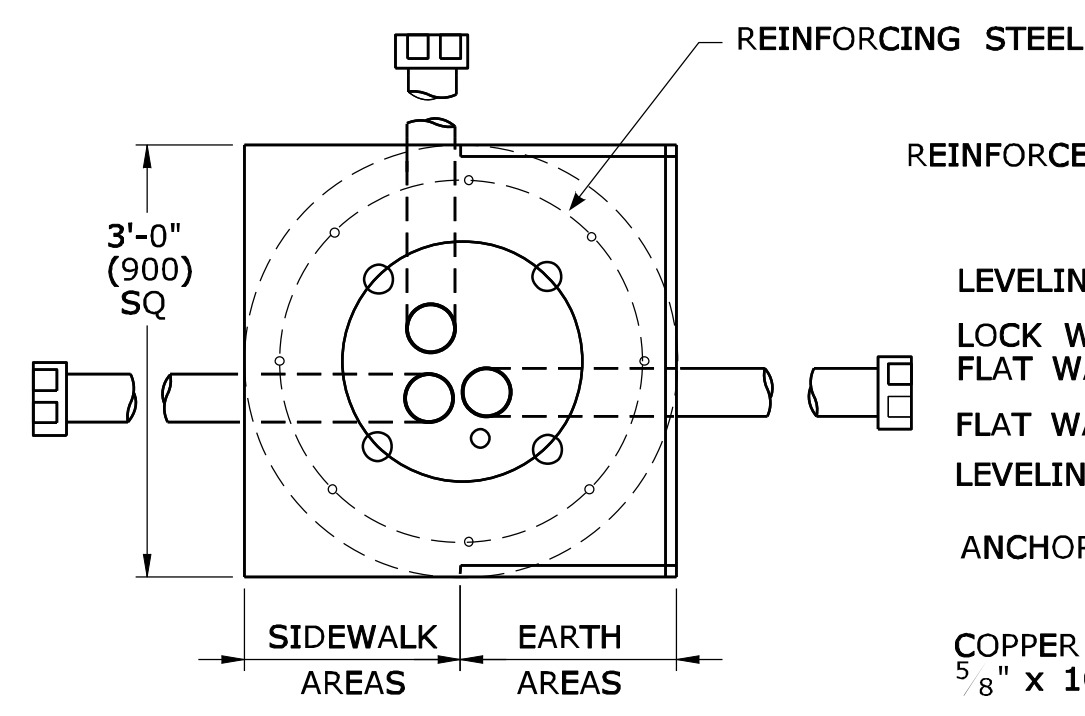
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CTDOT  
STANDARD SHEET

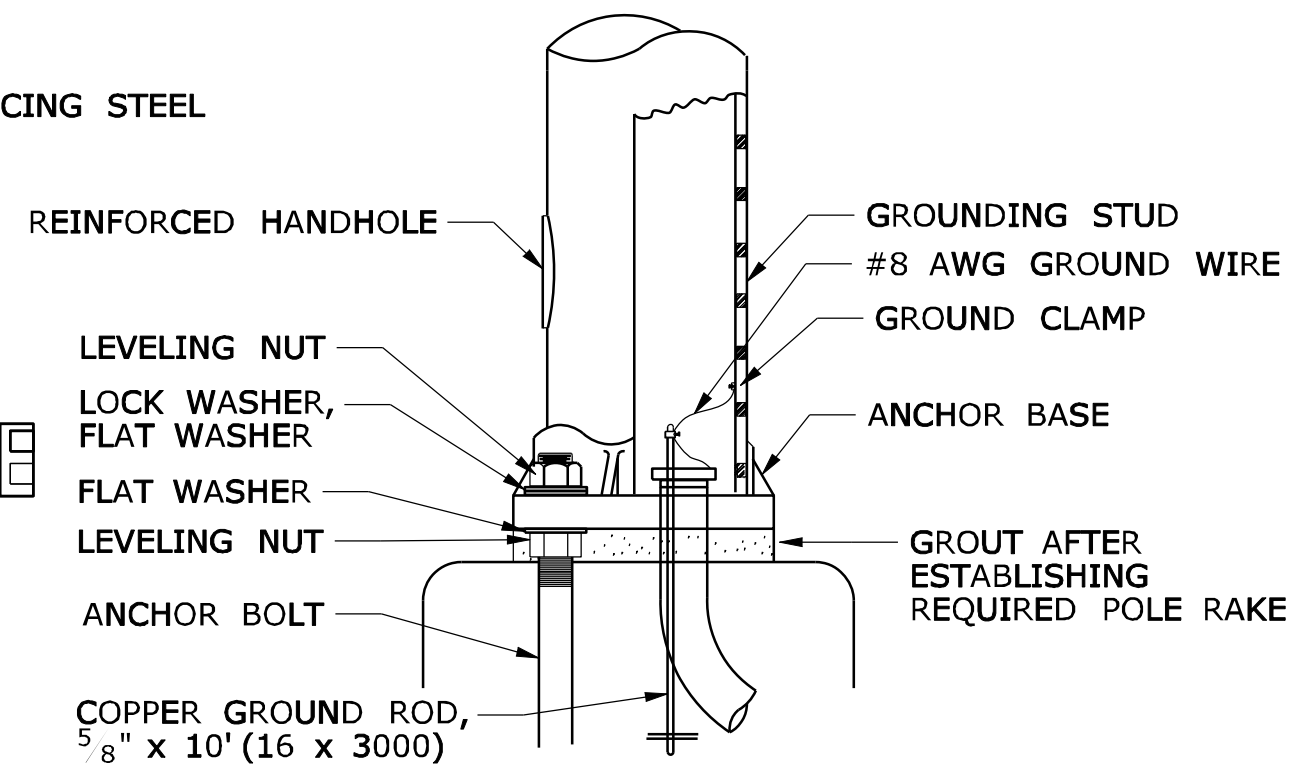
OFFICE OF ENGINEERING

TRENCHING & BACKFILLING,  
ELECTRICAL CONDUIT

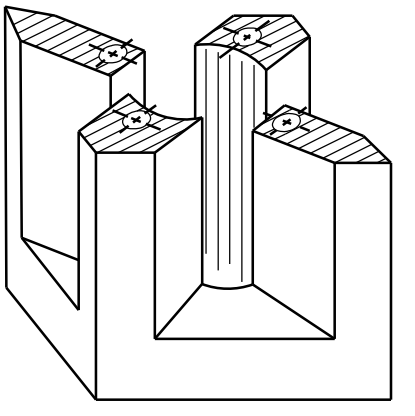
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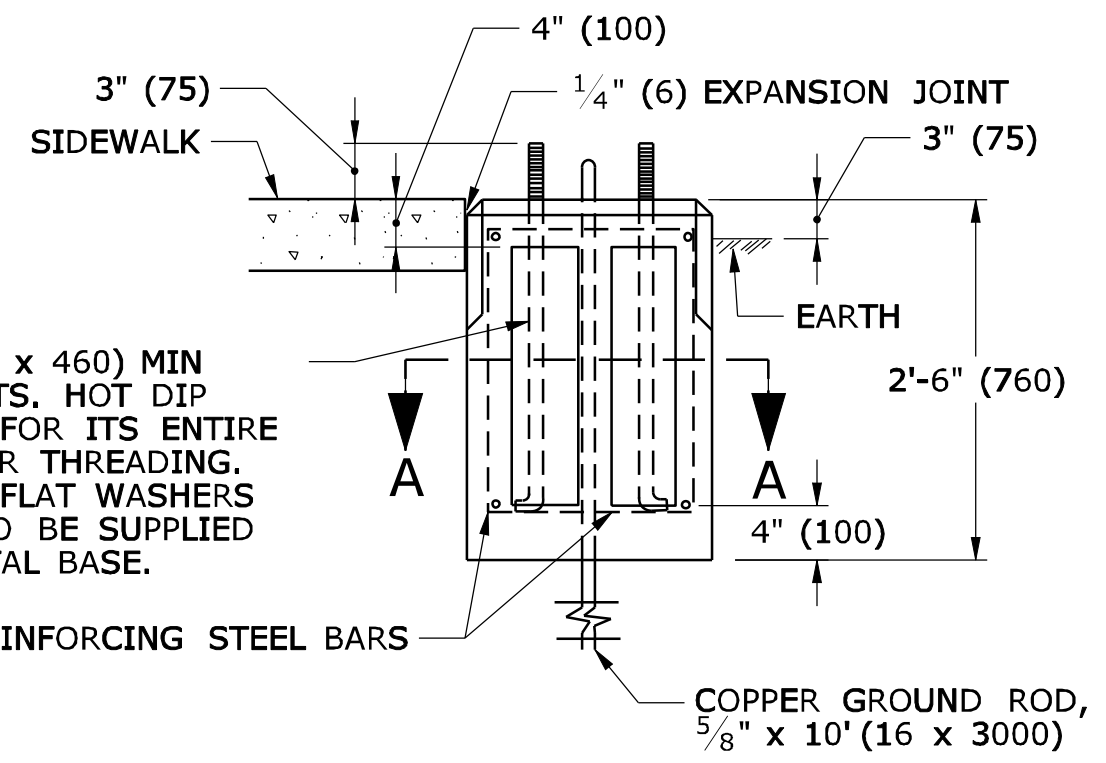
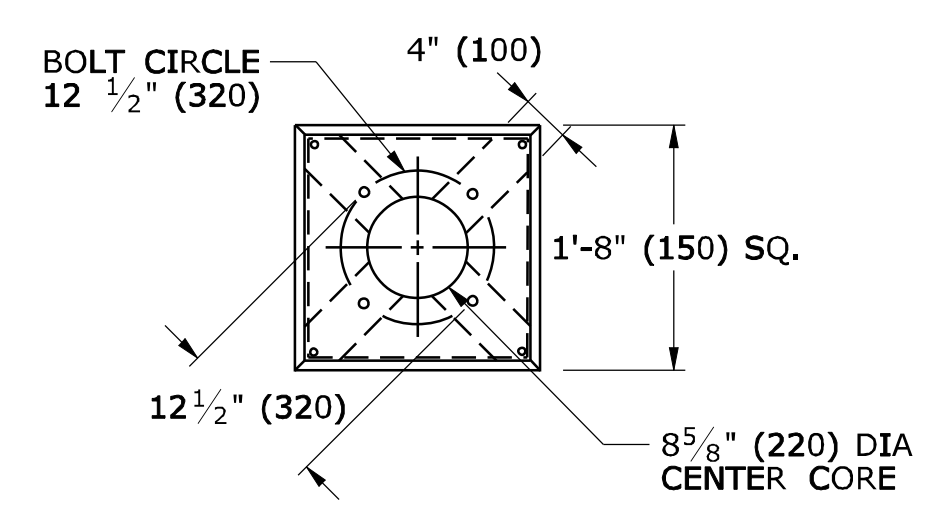
**PLAN VIEW**



**STEEL POLE INSTALLATION DETAIL**

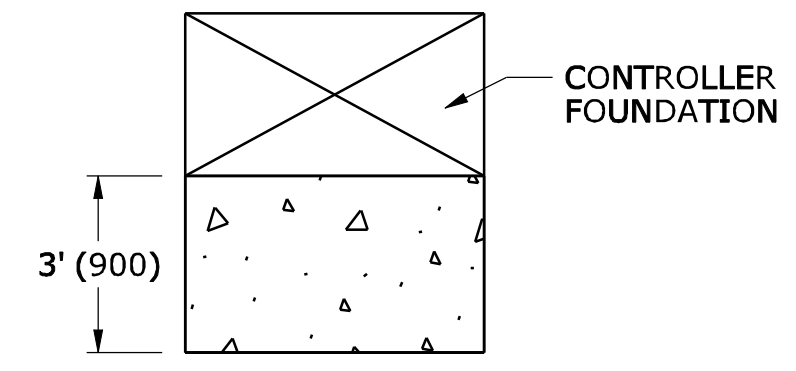


**PICTORIAL SECTION A-A**



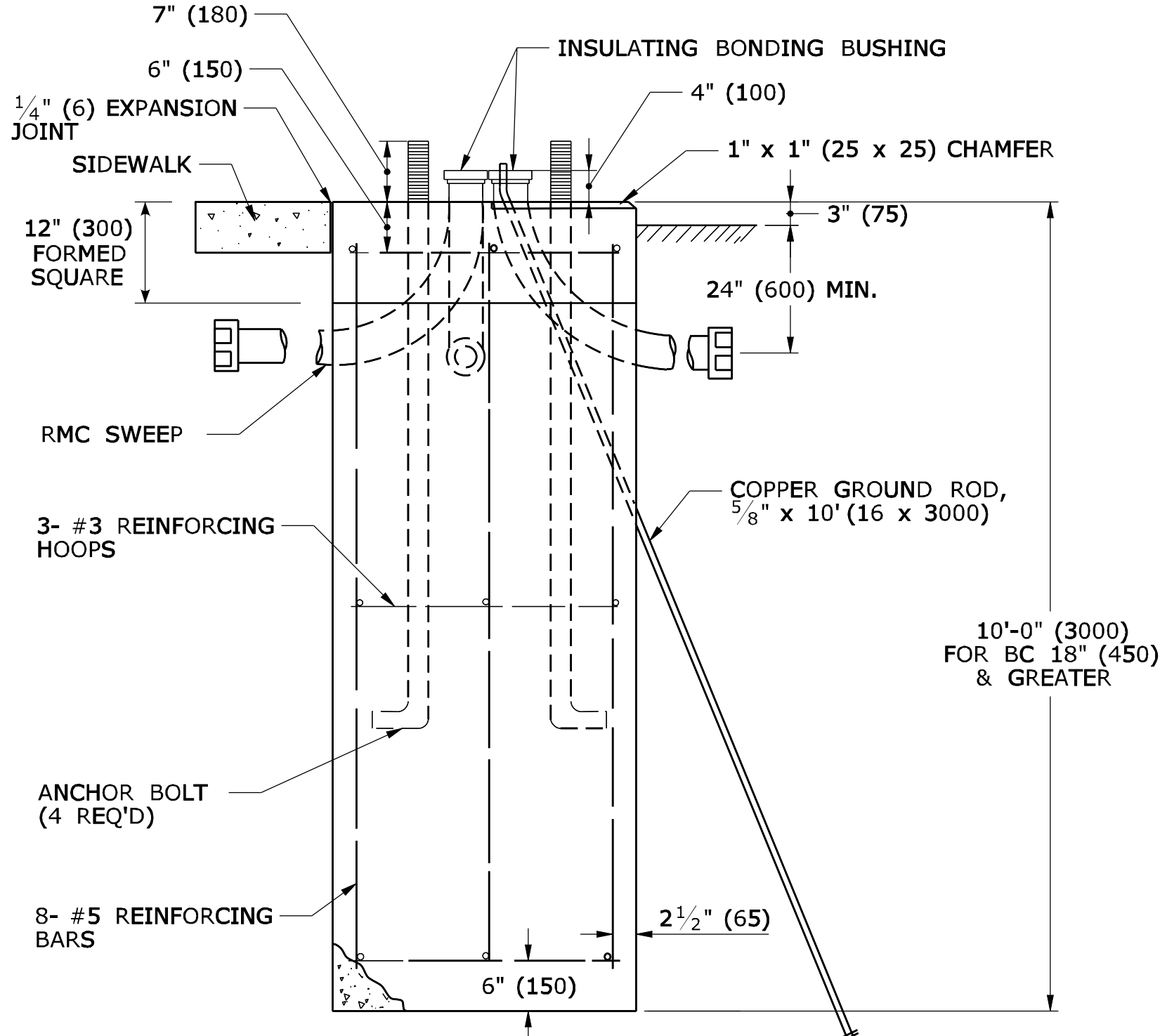
**TRAFFIC CONTROL FOUNDATION PEDESTAL - TYPI - PRECAST**

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



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.

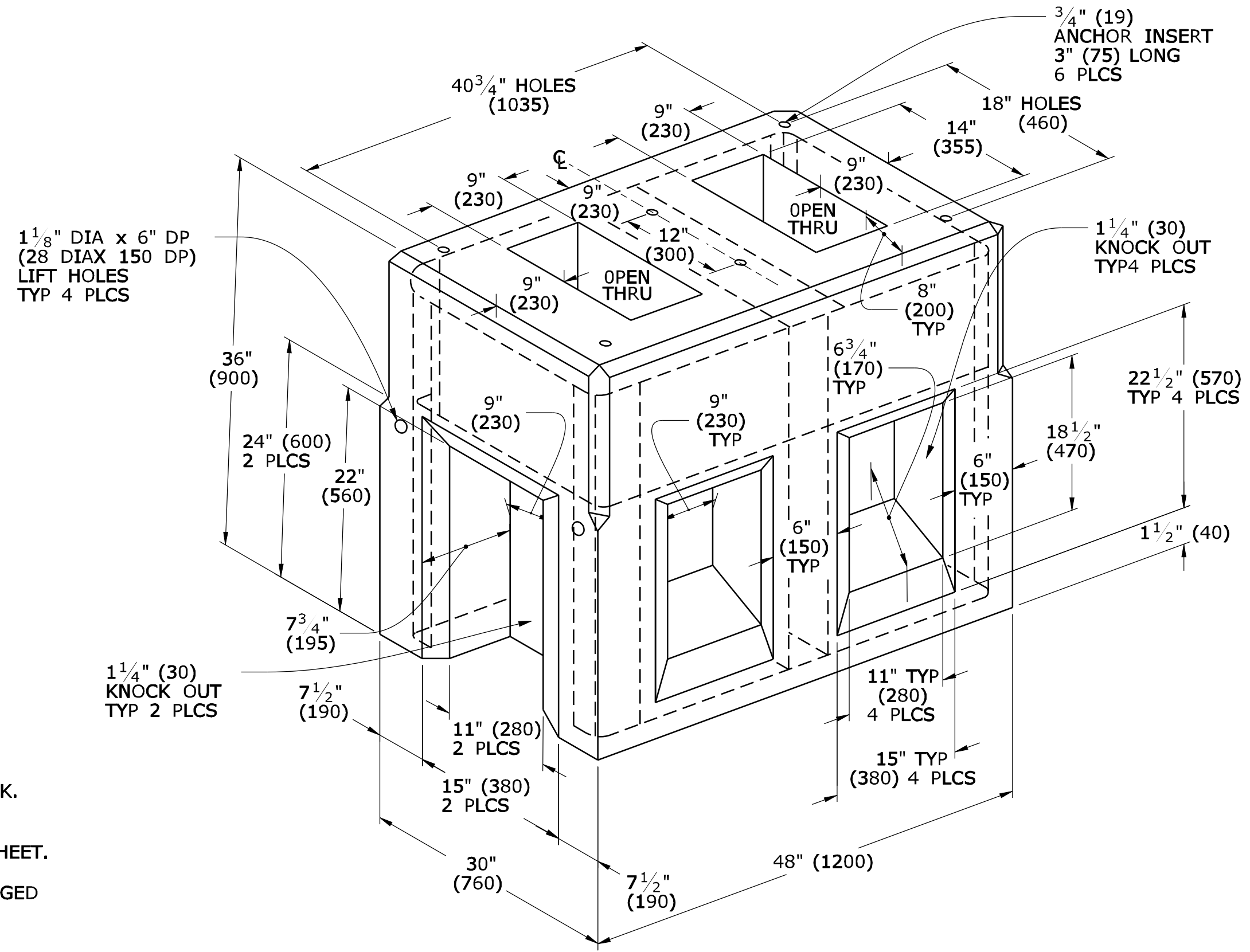
**TYPICAL CONCRETE SIDEWALK AT CONTROLLER FOUNDATION**



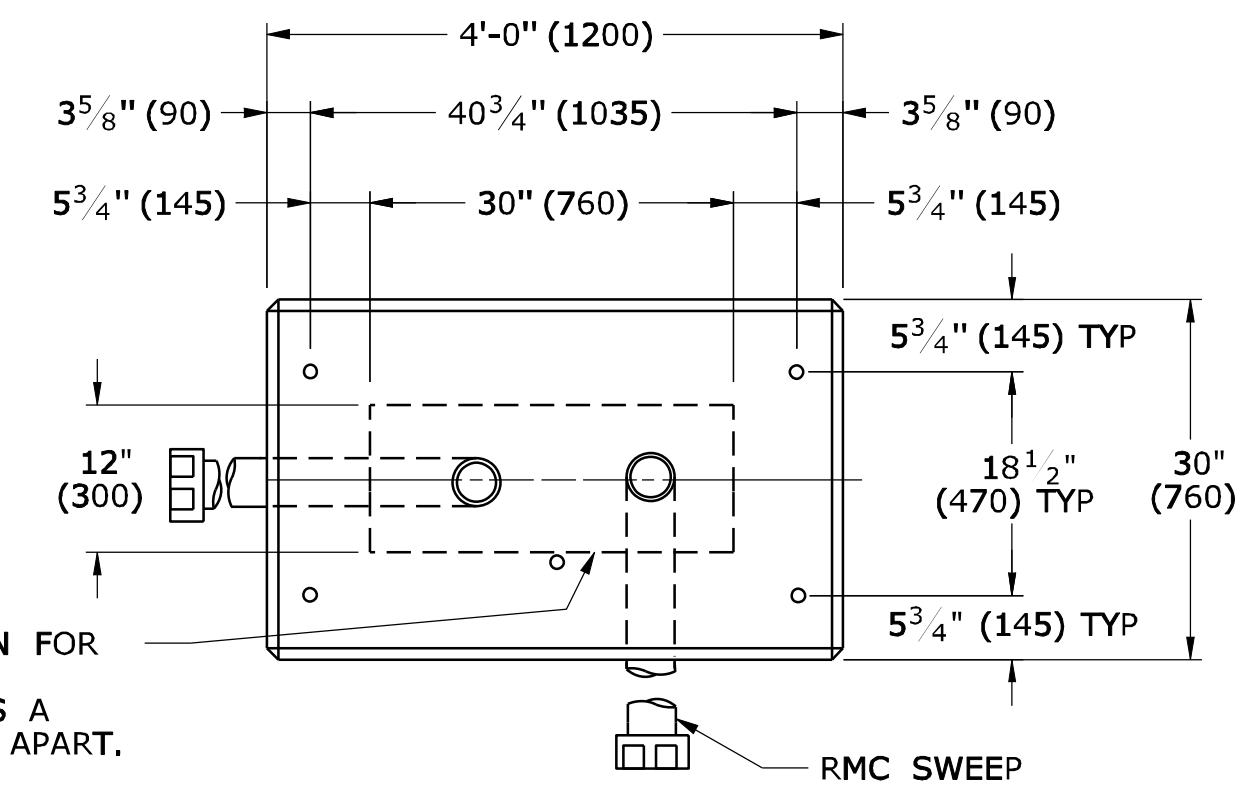
**ELEVATION VIEW**

**TRAFFIC CONTROL FOUNDATION SPAN POLE**

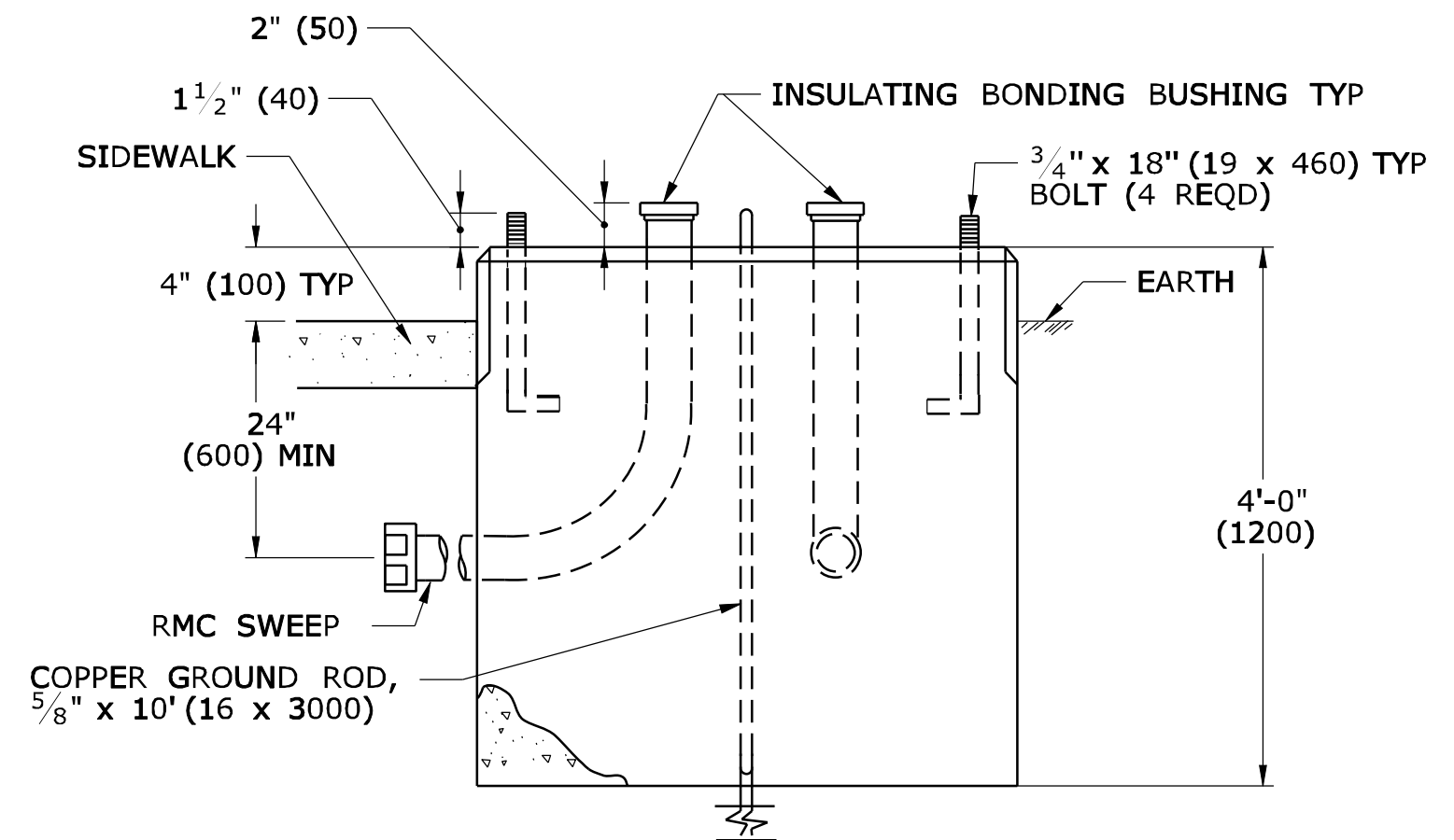
NOTES:  
INSTALL A MINIMUM OF TWO RMC SWEEPS IN ALL FOUNDATIONS. INSTALL A MINIMUM OF ONE SPARE 2" (50) RMC SWEEP IN ALL FOUNDATIONS. EXTEND SPARE SWEEP MINIMUM 24" (600) FROM SIDE. FORM EXPOSED EDGES WITH 1" x 1" (25 x 25) CHAMFER. WHEN AUGERED, AND POURED IN PLACE, OR CYLINDRICAL FORM IS USED, FORM 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.



**TRAFFIC CONTROL FOUNDATION CONTROLLER - TYPE IV - PRECAST**



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: 3/8" 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" CONFORM 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.

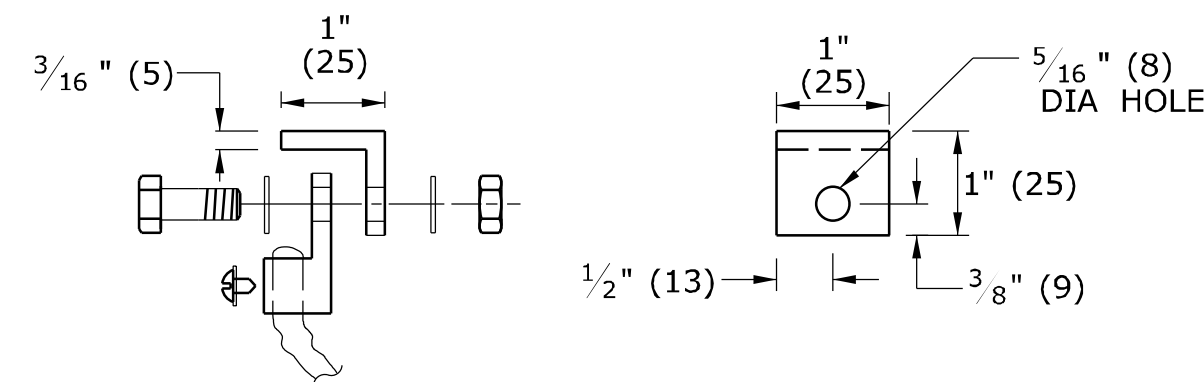
LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

□	PROPOSED CONTROLLER
▣	EXISTING CONTROLLER
○	PROPOSED STEEL SPAN POLE
●	EXISTING STEEL SPAN POLE

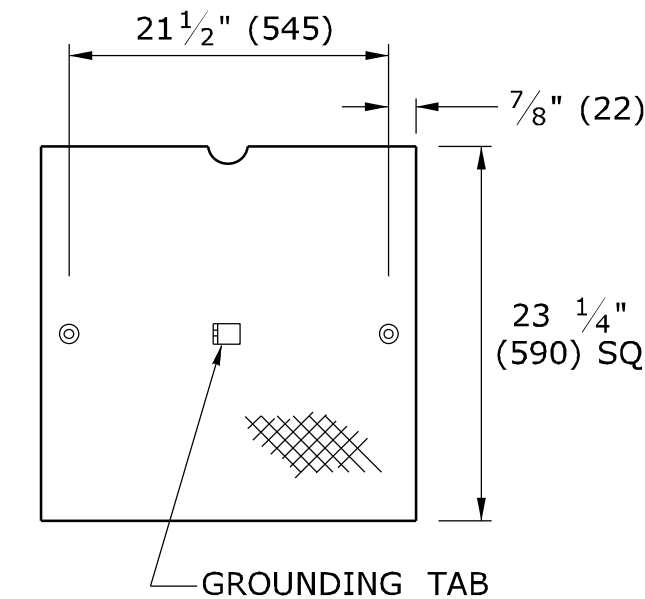
<p>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</p>	<p>NOT TO SCALE</p>	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	<p>SUBMITTED BY: Tracy L. Fogarty NAME/DATE/TIME: Tracy L. Fogarty 2009.10.16 14:15:50 -04'00'</p> <p>APPROVED BY: John F. Carey NAME/DATE/TIME: John F. Carey 2009.10.16 15:03:03 -04'00'</p>	<p>CDOT STANDARD SHEET OFFICE OF ENGINEERING</p>	<p>STANDARD SHEET TITLE: <b>TRAFFIC CONTROL FOUNDATIONS</b></p>	<p>STANDARD SHEET NO.: TR-1002_01</p>
<p>REV. DATE</p>	<p>REVISION DESCRIPTION</p>	<p>Plotted Date: 10/16/2009</p>	<p>Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1002_01</p>			

**COVER NOTES:**

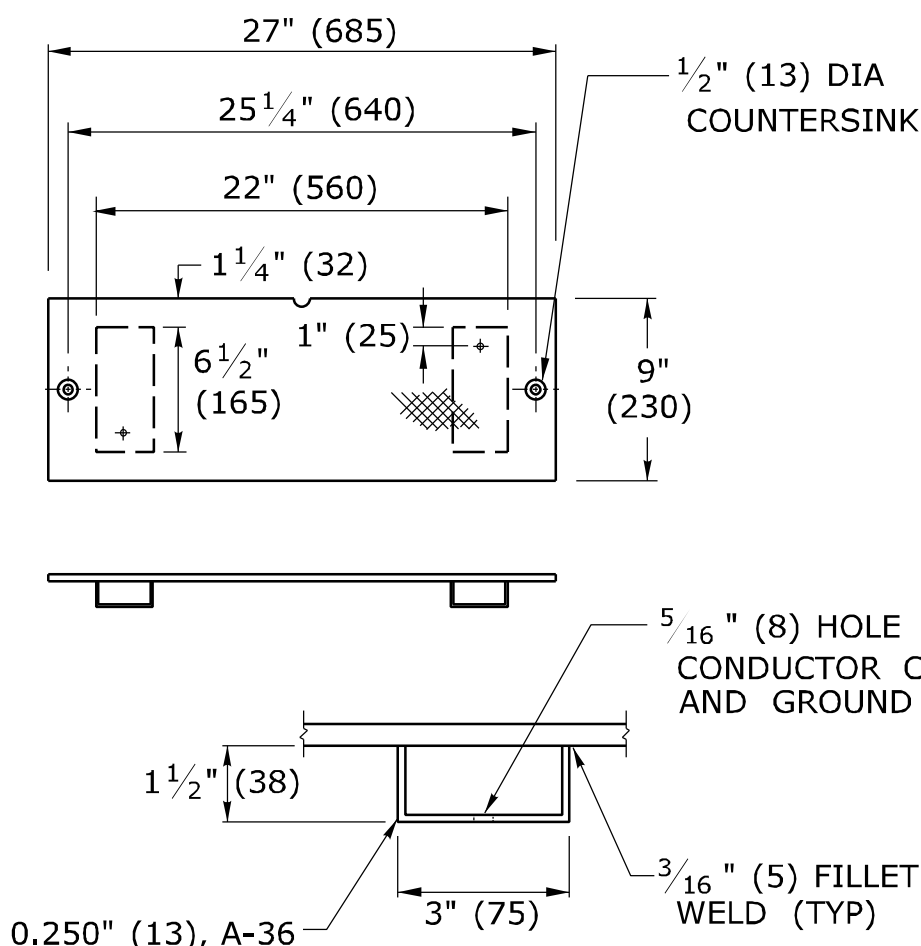
- GROUNDING TAB WELDED TO BOTTOM CENTER OF COVER WITH 3/16" (5) WELD (3 SIDES).
- ATTACH 6' (2 m) LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH CONDUCTOR CONNECTOR, 1/4" - 20 X 3/4" (M6 X 20) LG SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO CONDUIT BONDING BUSHING IN HANDHOLE.
- CONDUCTOR CONNECTOR: COPPER ALLOY BODY, BRASS SCREW, BRASS OR COPPER ALLOY PRESSURE PLATE.
- COVER SCREW INSERT: 3/8"-16 (9-16), 1 1/2" L (37L), STAINLESS STEEL.
- COVER SCREW: 3/8"-16 (9-16), 1" L (25L), FLAT HEAD, SLOTTED, STAINLESS STEEL.



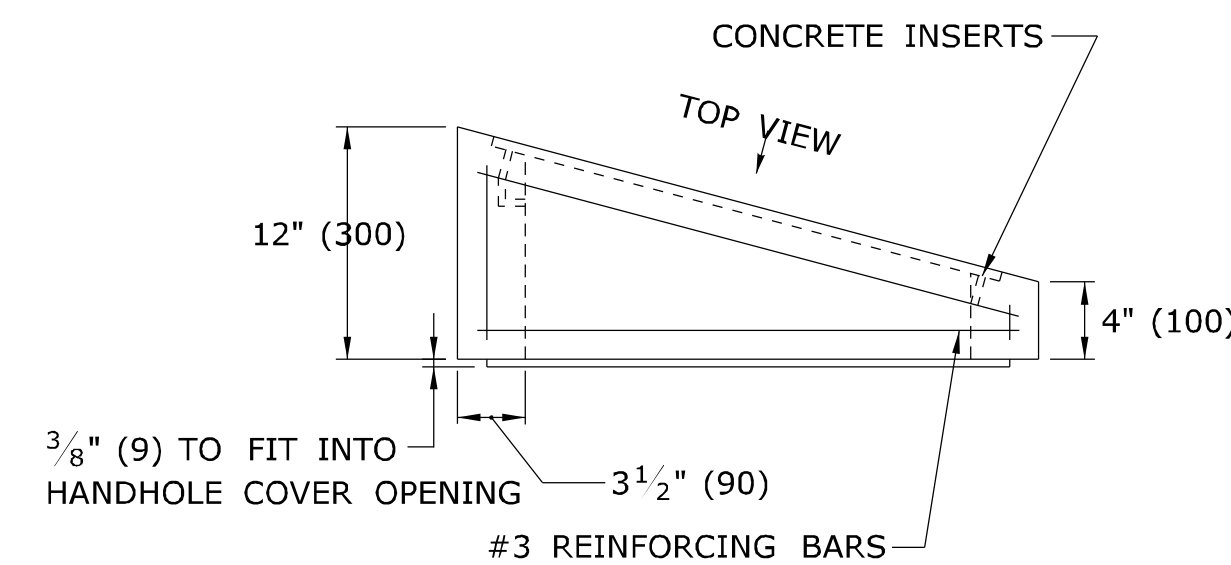
**STEEL GROUNDING TAB  
w/ CONDUCTOR CONNECTOR**



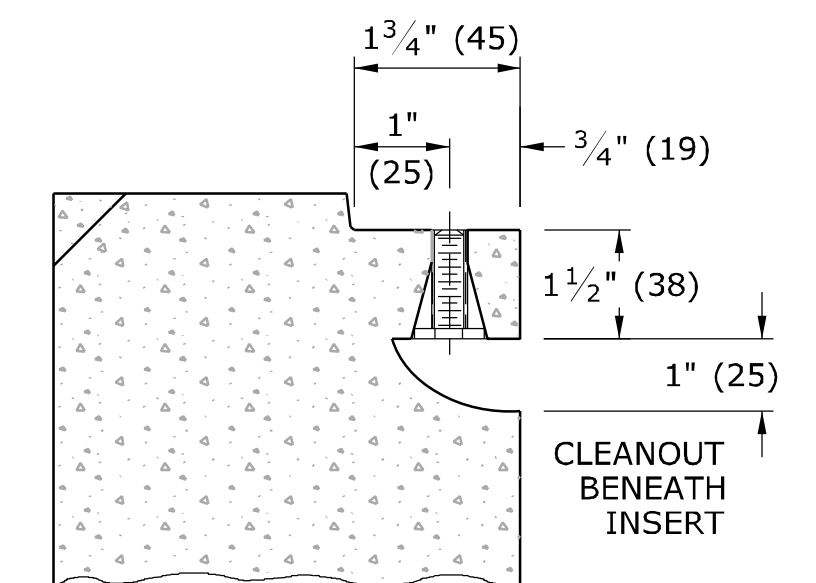
**NON SKID FLOOR PLATE  
GALVANIZED STEEL, 3/8" (10)**



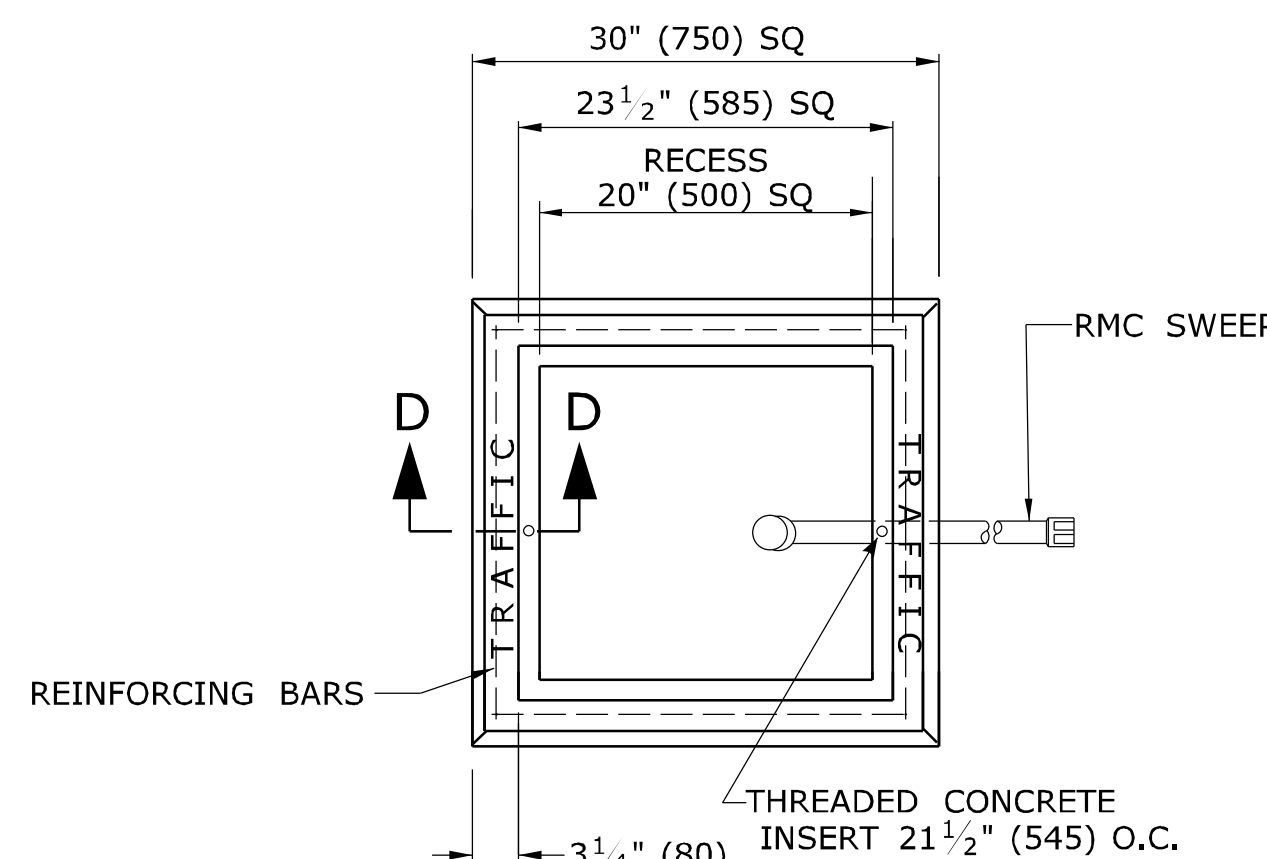
**C-CHANNEL 0.250" (13), A-36**



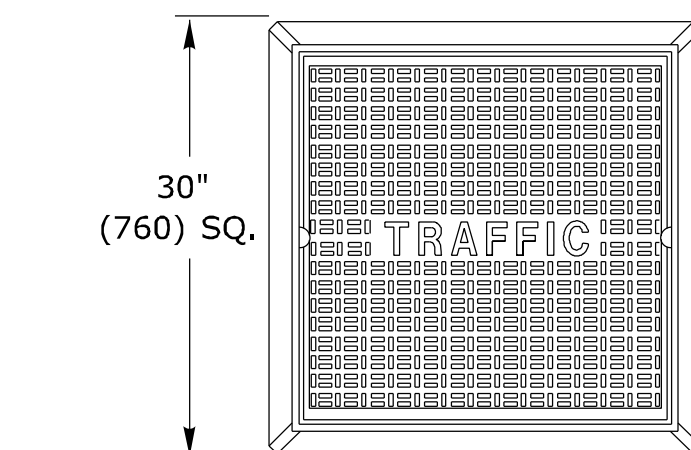
**BANK ADAPTER**



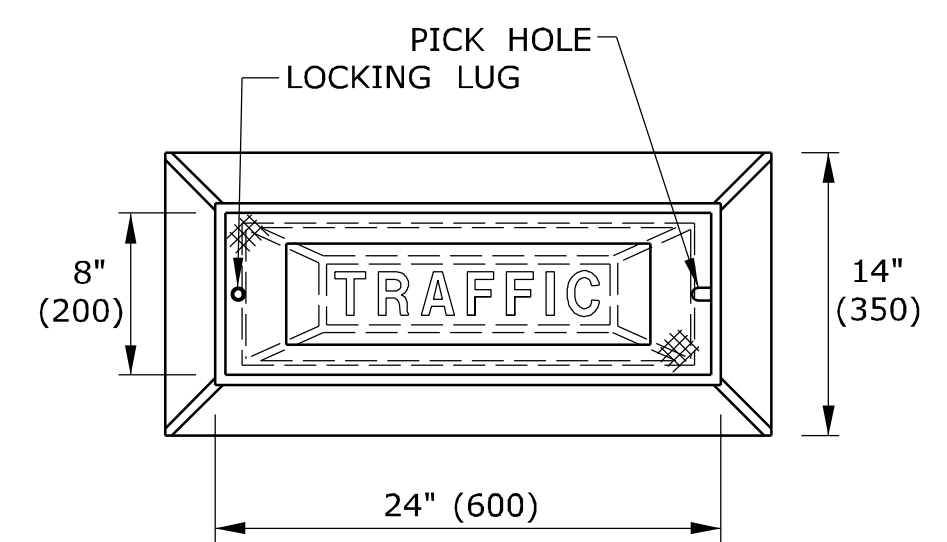
**SECTION D-D**



**PLAN VIEW**

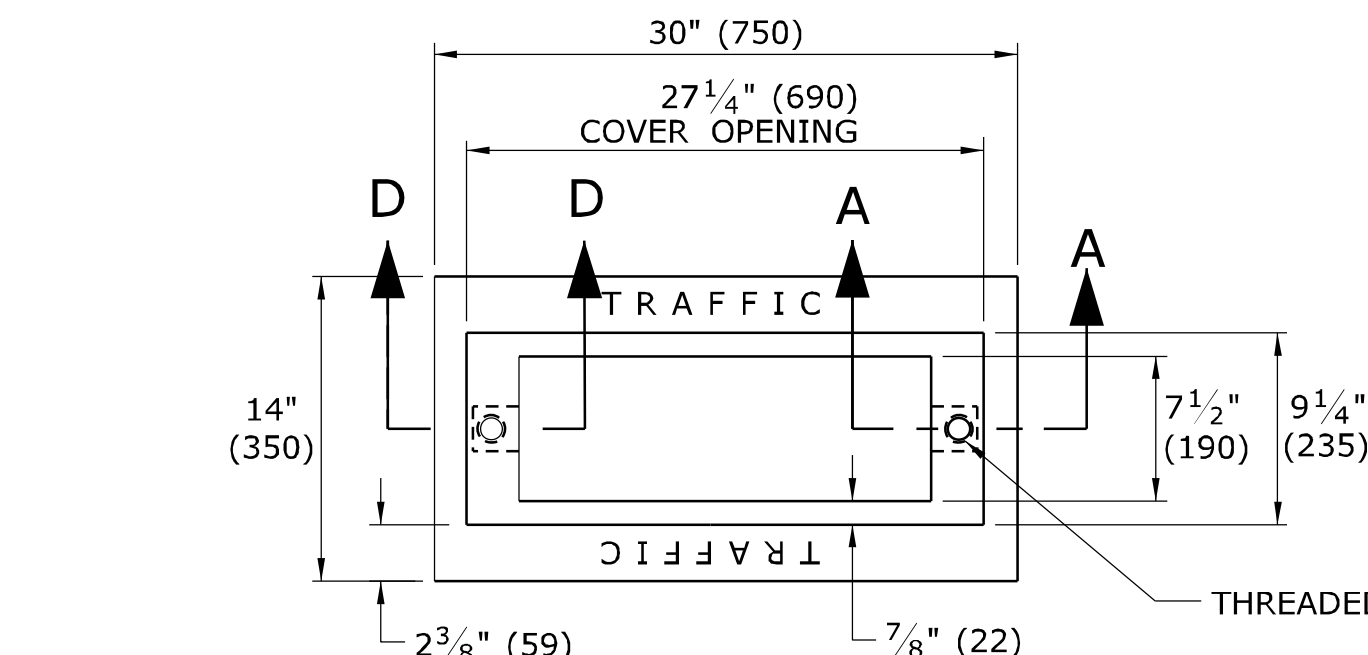


**CAST IRON  
HANDHOLE COVERS**

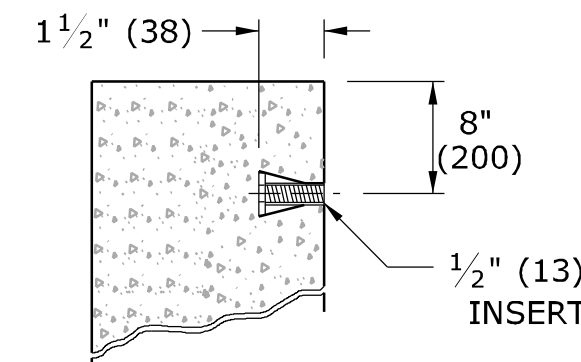


**SECTION A-A  
HANDHOLE EXTENSIONS**

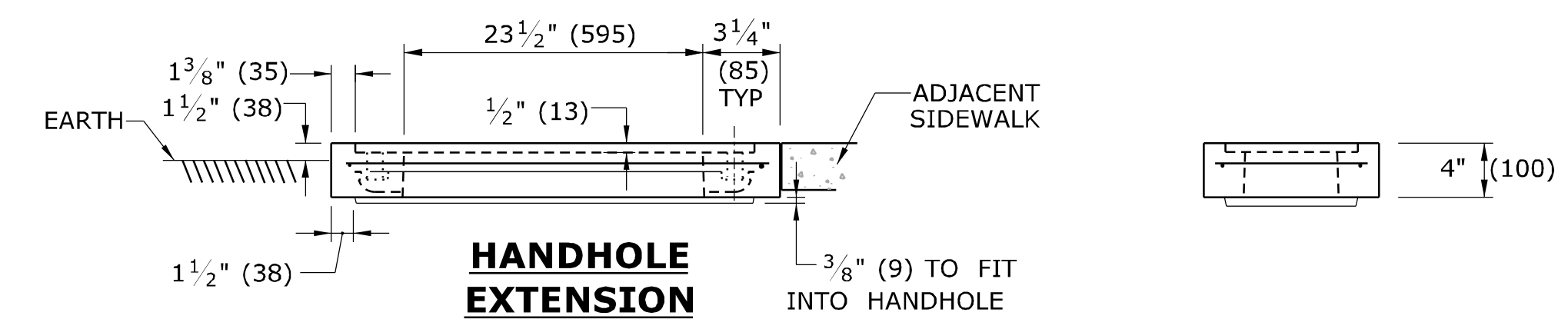
4 - #8 REINFORCING BARS REQ'D



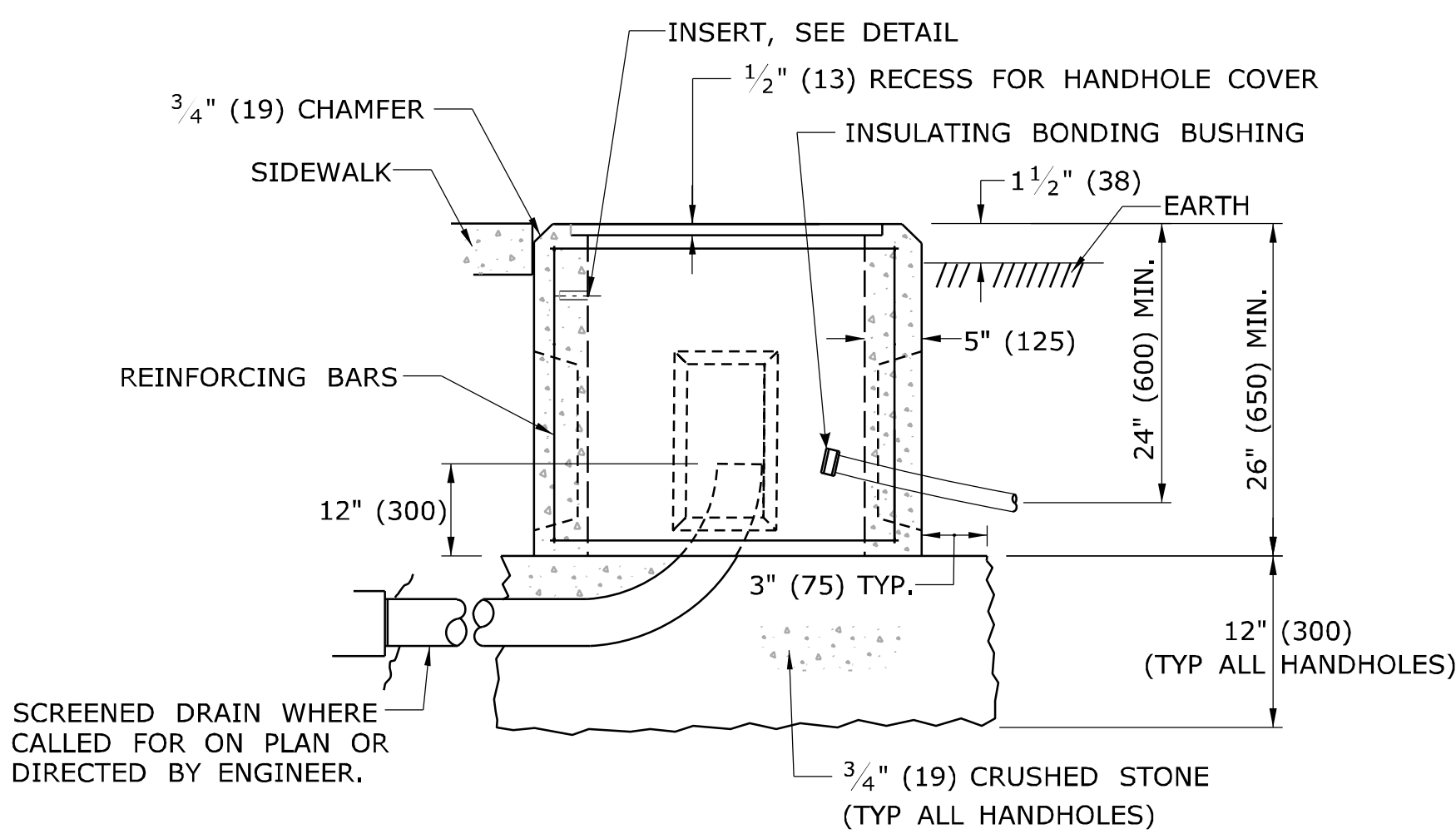
**PLAN VIEW**



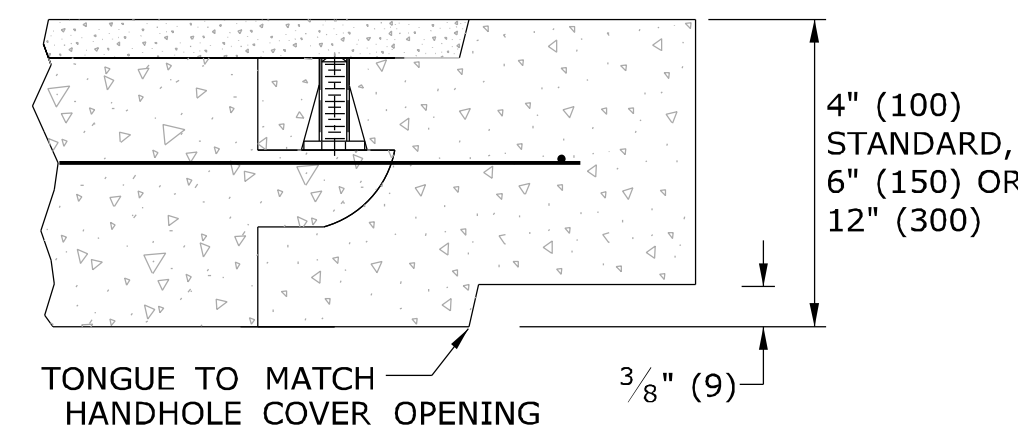
**INSERT DETAIL**  
TYP IN TWO PLACES  
FOR ALL HANDHOLES



**HANDHOLE  
EXTENSION**

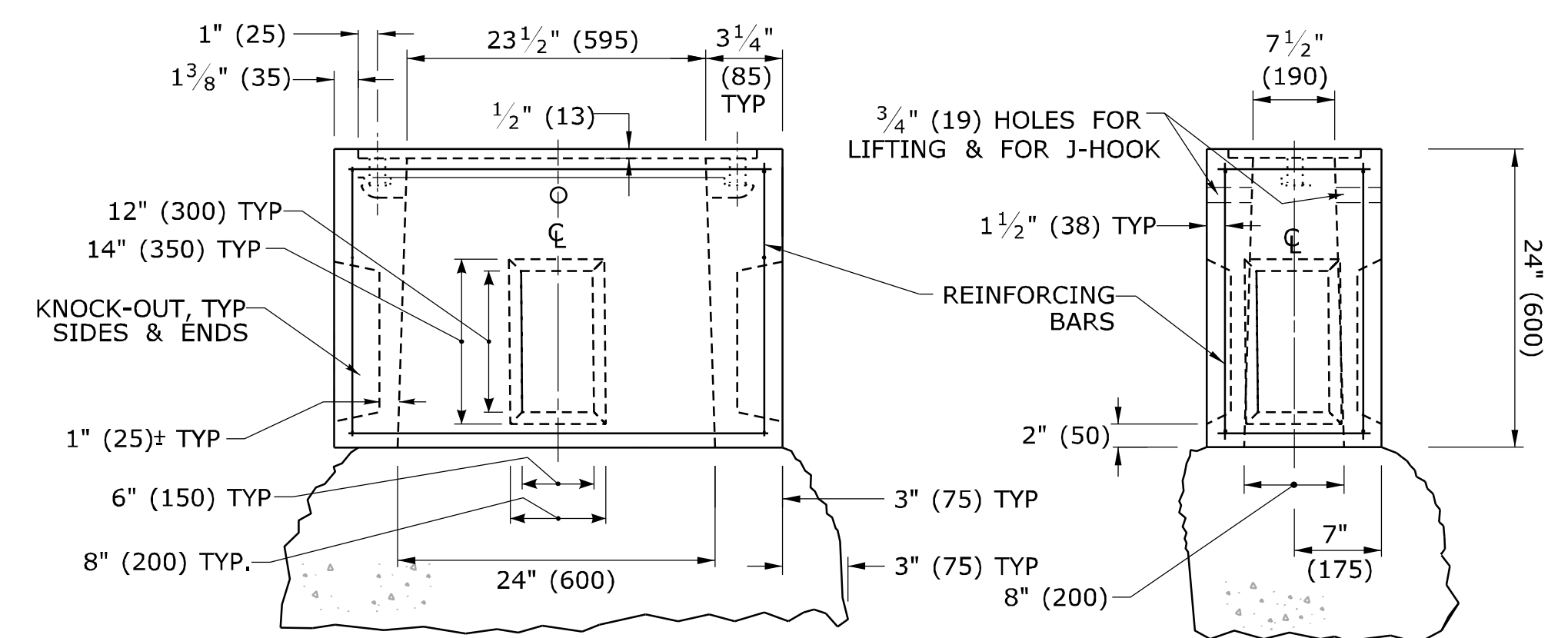


**CONCRETE HANDHOLE TYPE I**



**SECTION A-A  
HANDHOLE EXTENSIONS**

4 - #8 REINFORCING BARS REQ'D



**BASE SECTION  
CONCRETE HANDHOLE TYPE II**

**HANDHOLE NOTES:**

- MINIMUM CLASS "C" CONCRETE.
- COMPLETE TYPE II HANDHOLE:  
IN EARTH AREAS, CONSISTS OF A BASE SECTION WITH 4" (100) HANDHOLE EXTENSION,  
IN SIDEWALK AREAS, CONSISTS OF A BASE SECTION WITH 4" (100) CAST IRON COVER.
- PLAN VIEW DIMENSIONS, SECTION VIEW, & DETAILS, SAME FOR BASE SECTION, EXTENSIONS & BANK ADAPTER.

- GROUT AROUND ALL CONDUITS.
- INSTALL 30" (750) SIDE 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, REPLACE THE ENTIRE SIDEWALK SECTION.
- 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
1	4-2012	CAST IRON COVER: CHANGED BOLT TO PICK HOLE, ADDED EXTENSIONS, C-CHANNEL, CONDUCTOR CONNECTOR & MINOR REVISIONS.

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.

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

NOT TO SCALE



Filename: CTDOT\_TRAFFIC\_STD.dgn Model: TR-1010\_01

SUBMITTED BY:	NAME/DATE/TIME:
Tracy L. Fogarty	Tracy L. Fogarty 2012.05.01 12:55:16-04'00"
APPROVED BY:	NAME/DATE/TIME:
Timothy M. Wilson	Timothy M. Wilson 2012.05.09 10:24:21-04'00"

**CTDOT  
STANDARD SHEET**

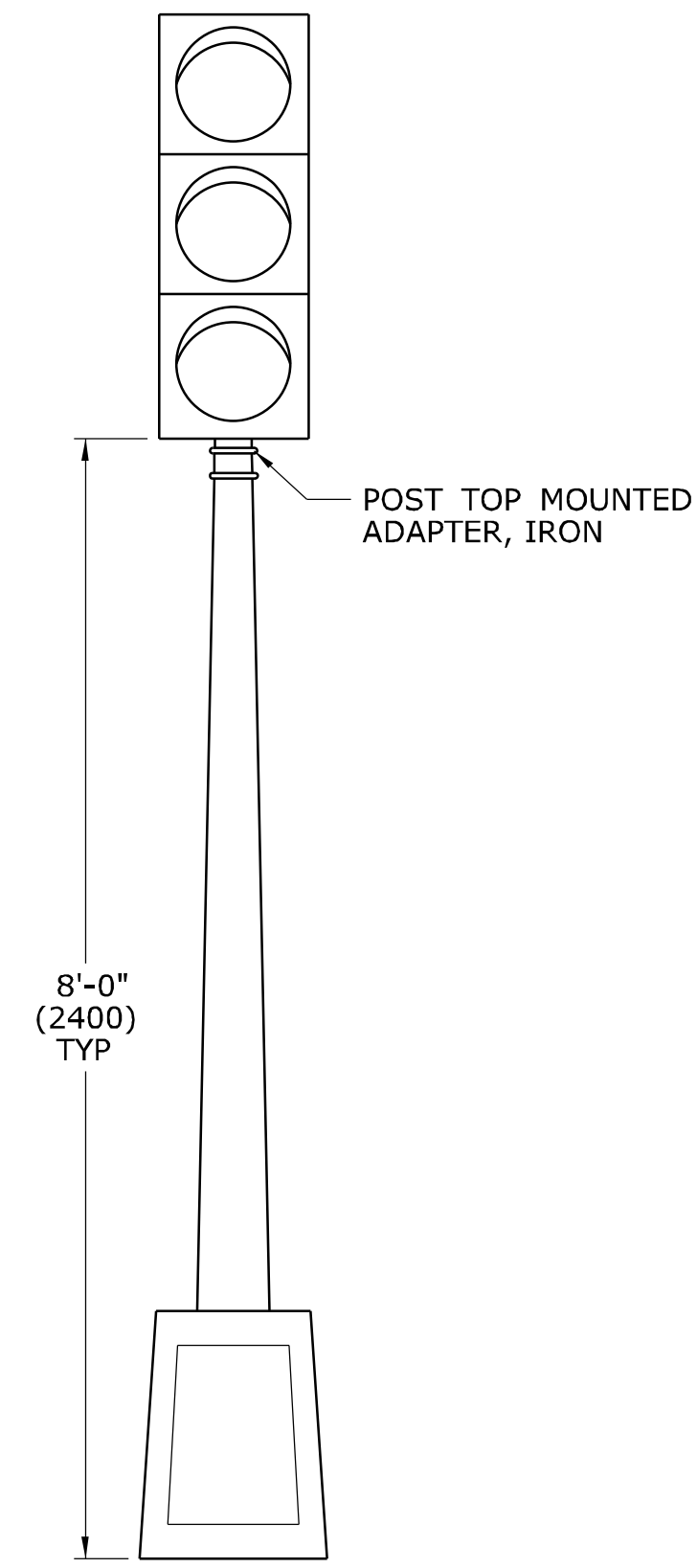
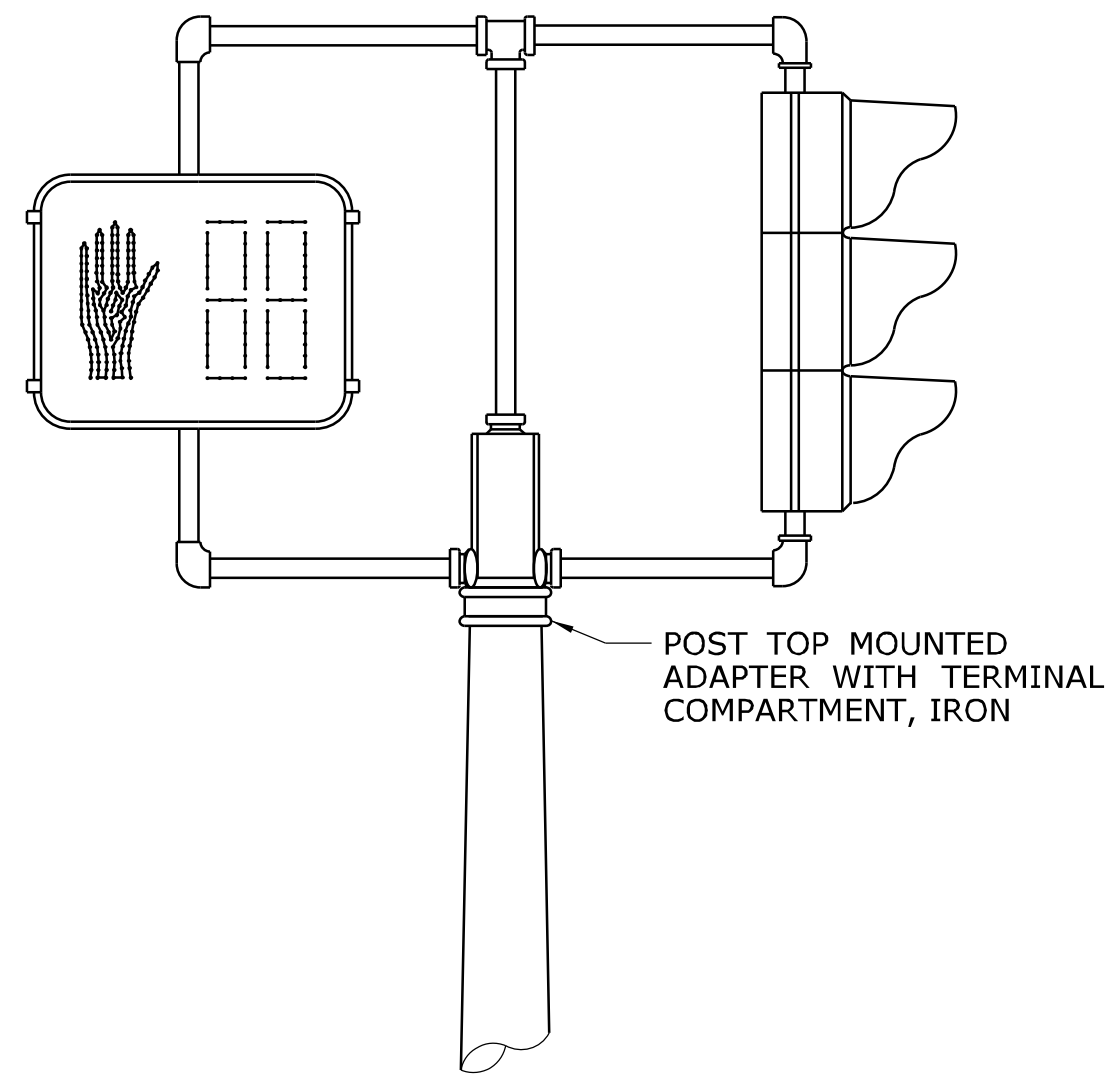
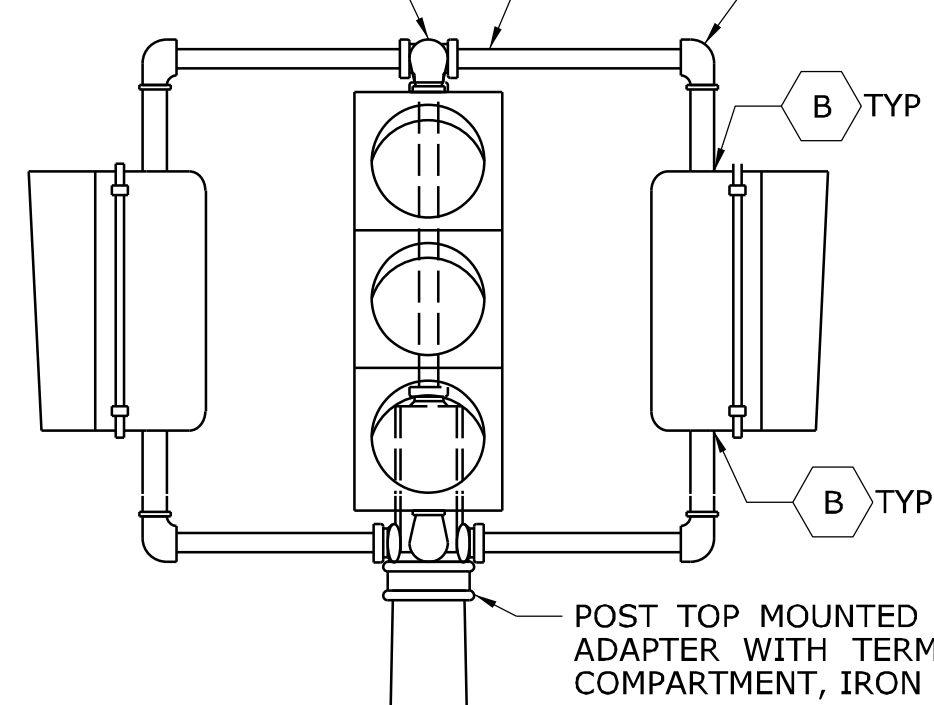
**OFFICE OF ENGINEERING**

STANDARD SHEET TITLE:	STANDARD SHEET NO.:
<b>CONCRETE HANDHOLE</b>	<b>TR-1010_01</b>

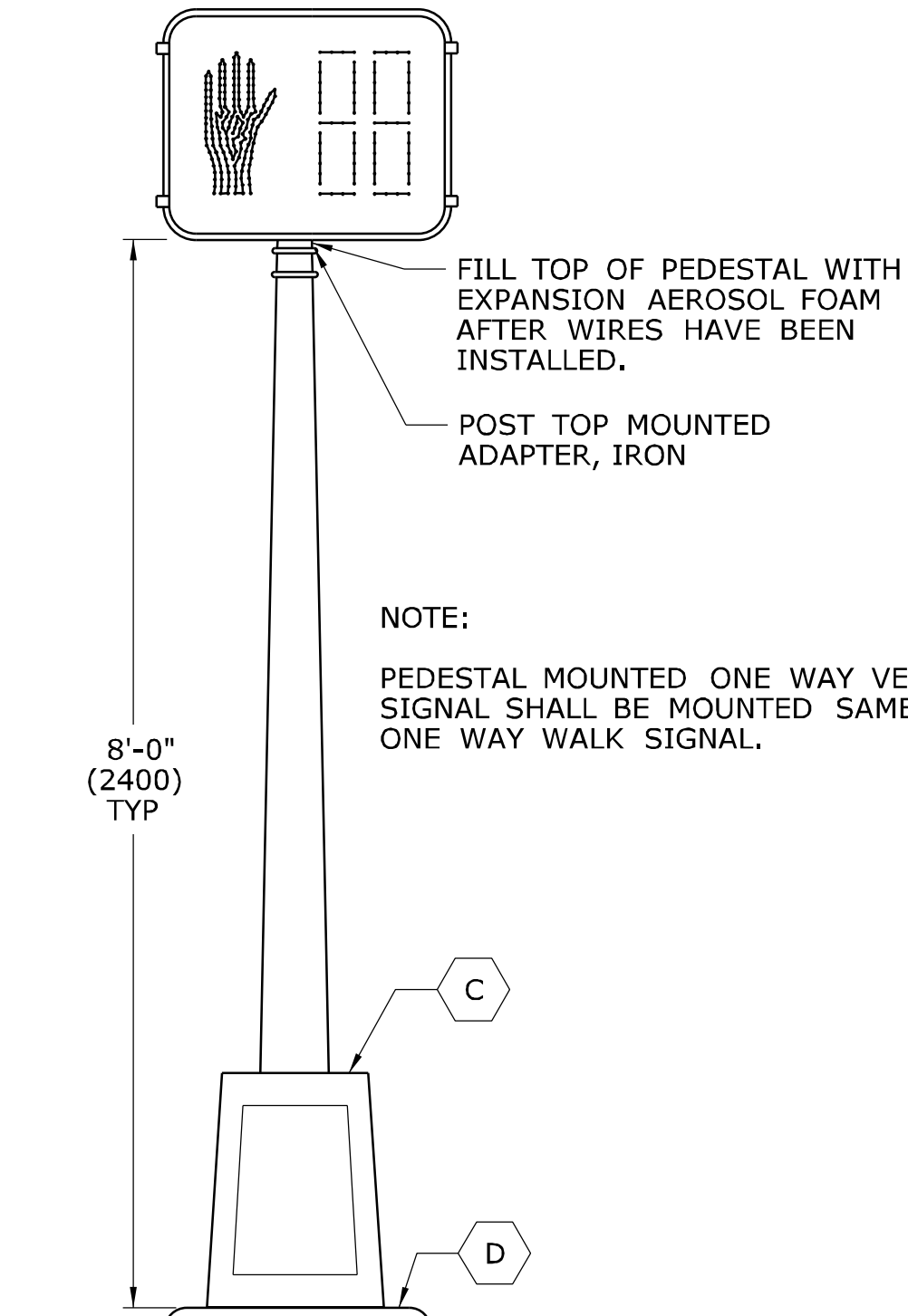


1 1/2" (38) SSIDE  
OUTLET TEE, IRON, TYP

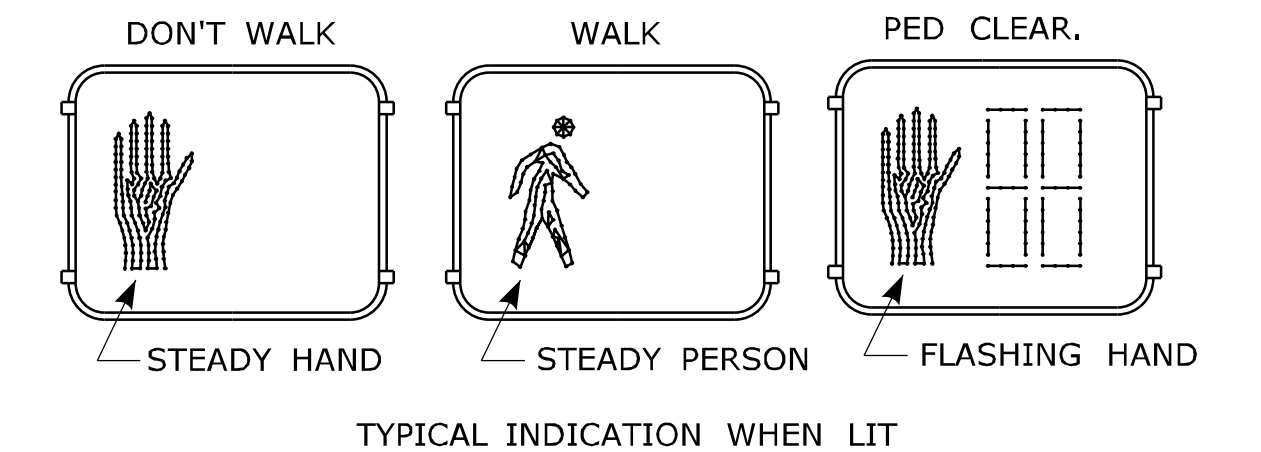
1 1/2" (38) NIPPLE, STEEL, TYP



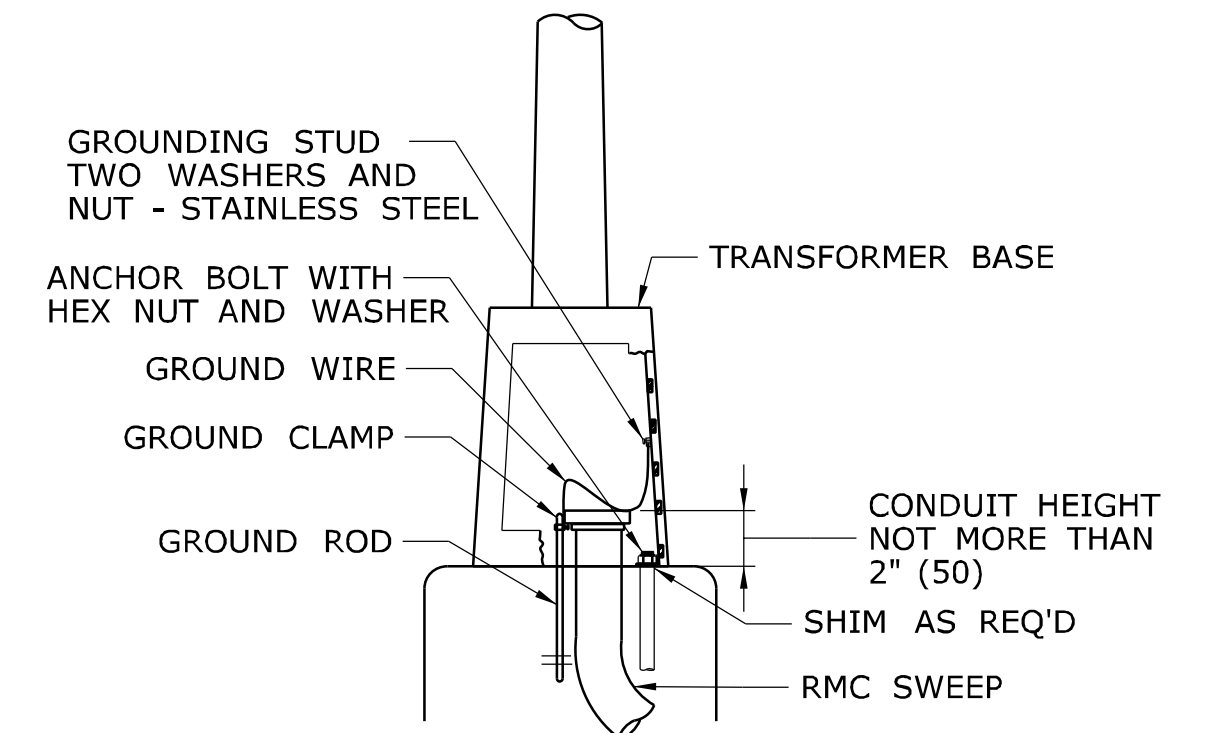
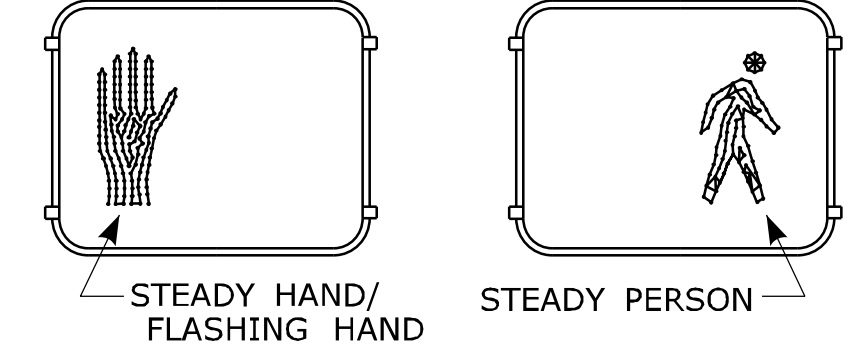
**ONE WAY TRAFFIC SIGNAL  
PEDESTAL MOUNTED**



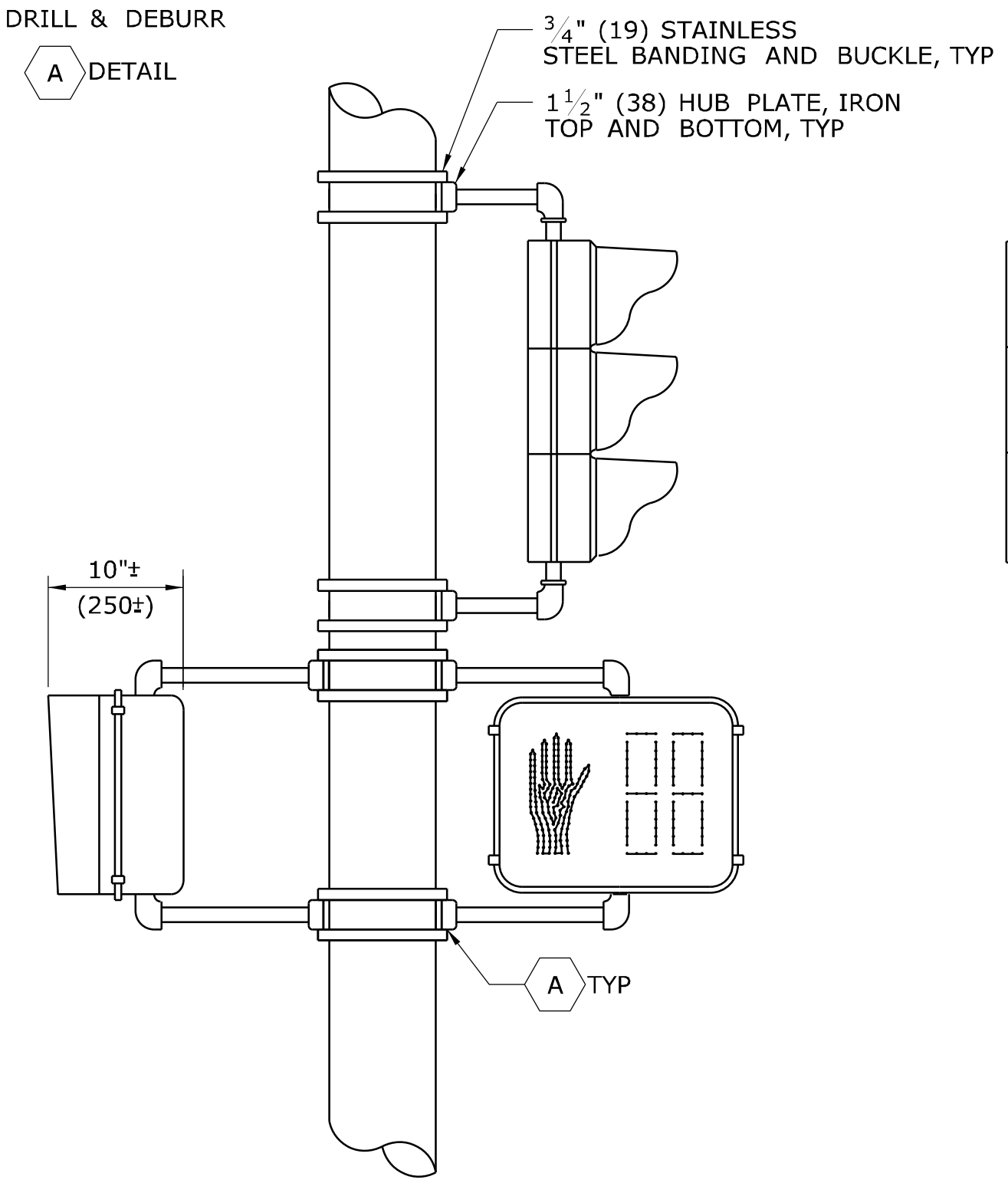
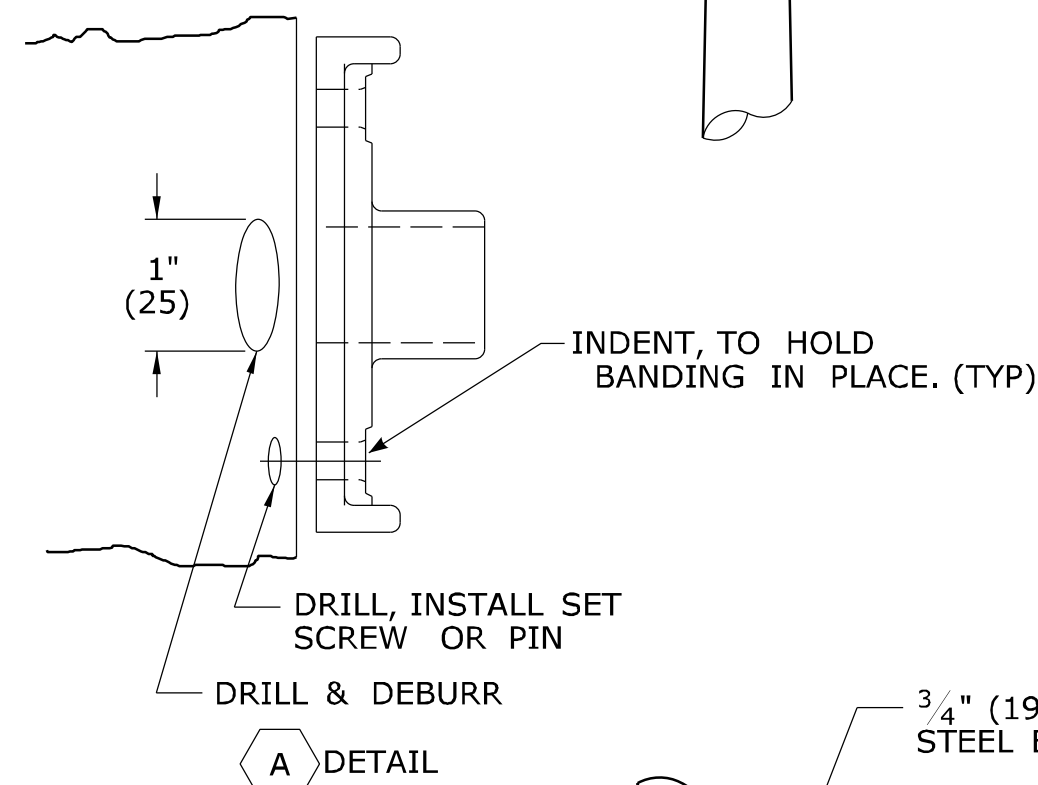
**ONE WAY WALK SIGNAL  
PEDESTAL MOUNTED**



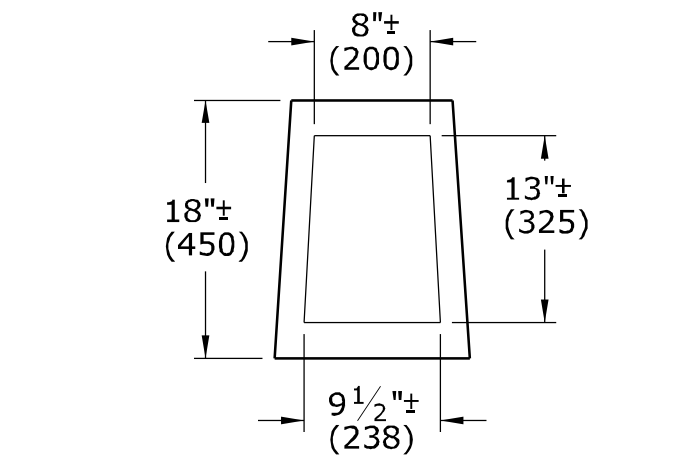
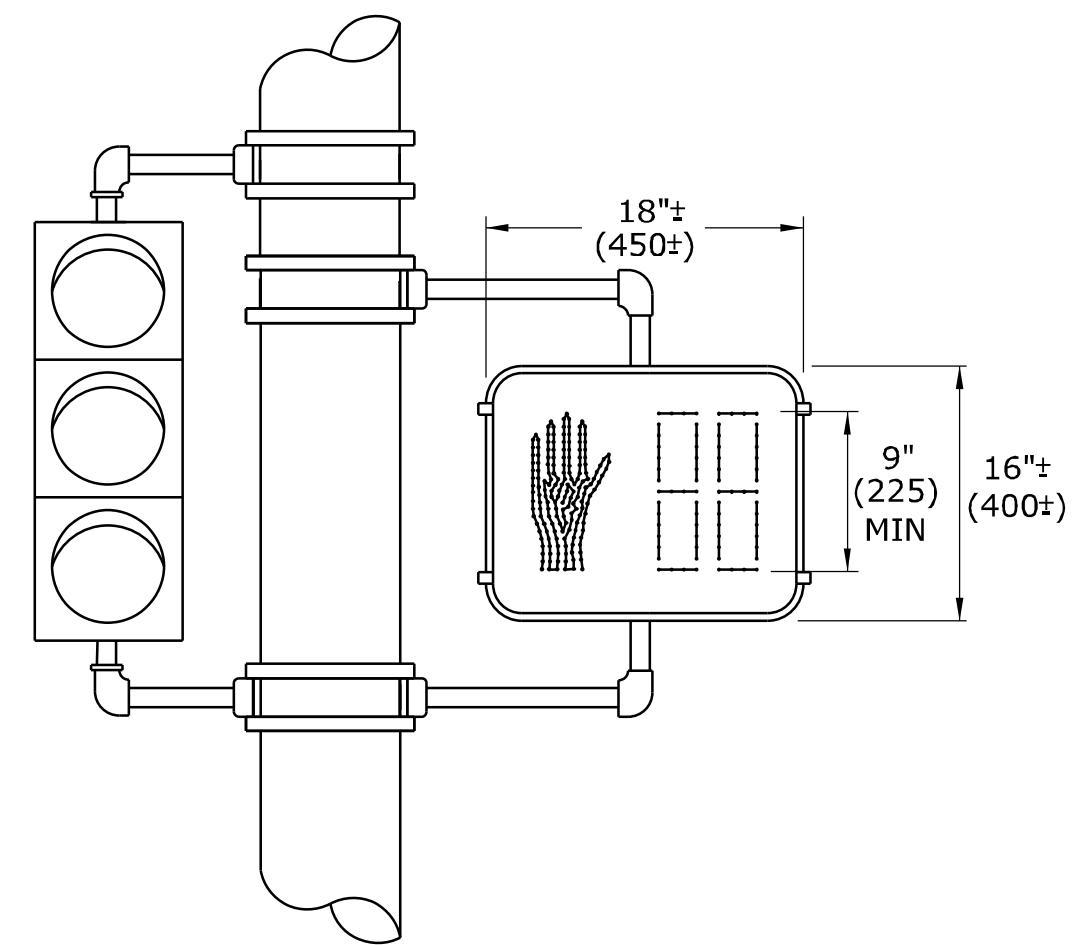
NON-COUNTDOWN DISPLAY, ONLY WHEN SHOWN ON PLAN.  
DON'T WALK/PED CLEAR. WALK



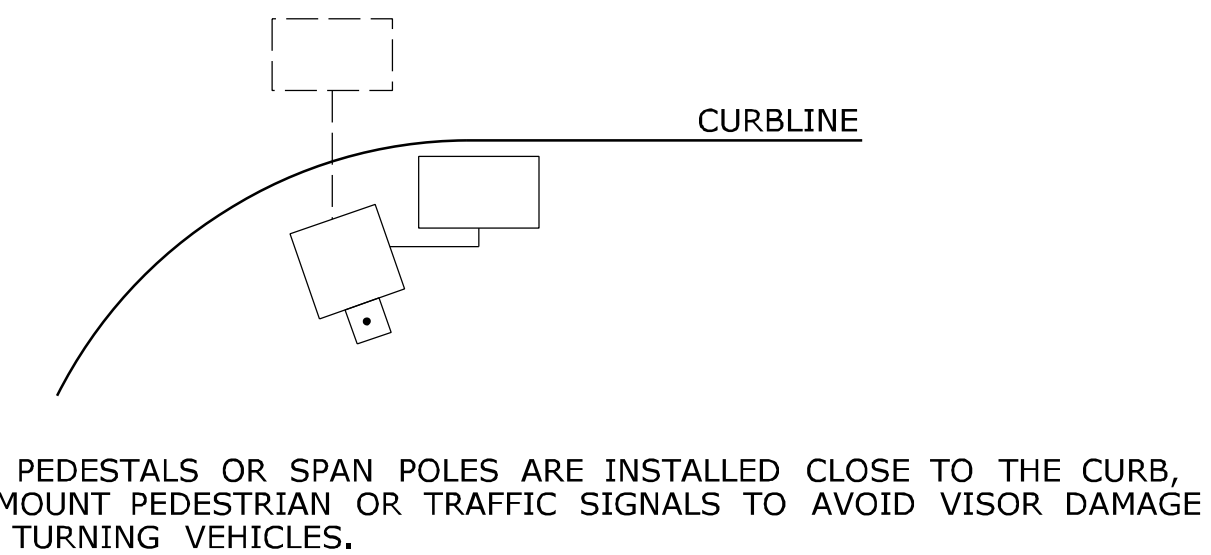
**ALUMINUM PEDESTAL  
INSTALLATION DETAIL**



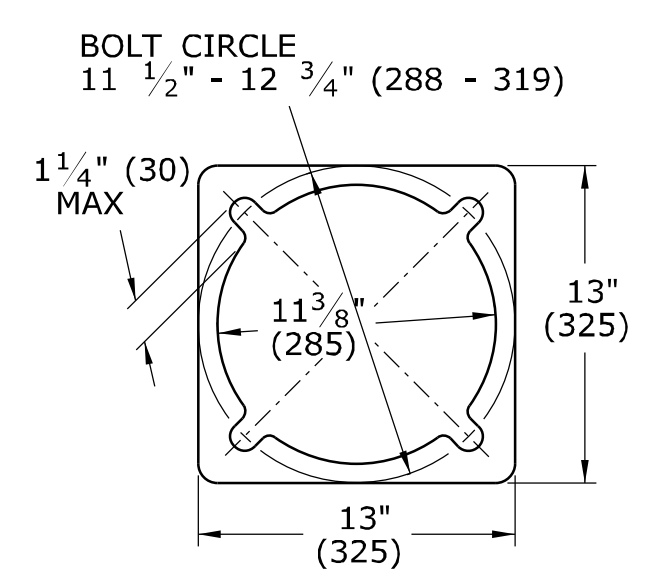
**ONE WAY TRAFFIC SIGNAL  
POLE MOUNTED**



**ALUMINUM PEDESTAL  
DOOR OPENING DETAIL**



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



**PEDESTAL BASE PLAN**

- 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:

☒	STEEL SPAN POLE, MAST ARM ASSEMBLY SHAFT	☐	PEDESTRIAN SIGNAL
☐	ALUMINUM PEDESTAL	☐	PEDESTAL MOUNTED, TRAFFIC & PEDESTRIAN SIGNALS
→	TRAFFIC SIGNAL	☐	POLE MOUNTED, TRAFFIC & PEDESTRIAN SIGNALS

REV.	DATE	REVISION DESCRIPTION
2	4-2012	MINOR REVISIONS.
1	1-2010	INCLUDED COUNTDOWN PEDESTRIAN SIGNALS.

Plotted Date: 4/14/2012

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.

DIMENSIONS ARE IN ENGLISH ("') & METRIC UNITS (mm).  
METRIC DIMENSIONS ARE ROUNDED:  
- OVER 1" TO NEAREST 5 mm  
- UNDER 1" TO NEAREST 3 mm.

NOT TO SCALE

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

Submitted By: Tracy L. Fogarty  
2012.05.01 12:55:27-04'00'

Approved By: Timothy M. Wilson  
2012.05.09 10:24:58-04'00'

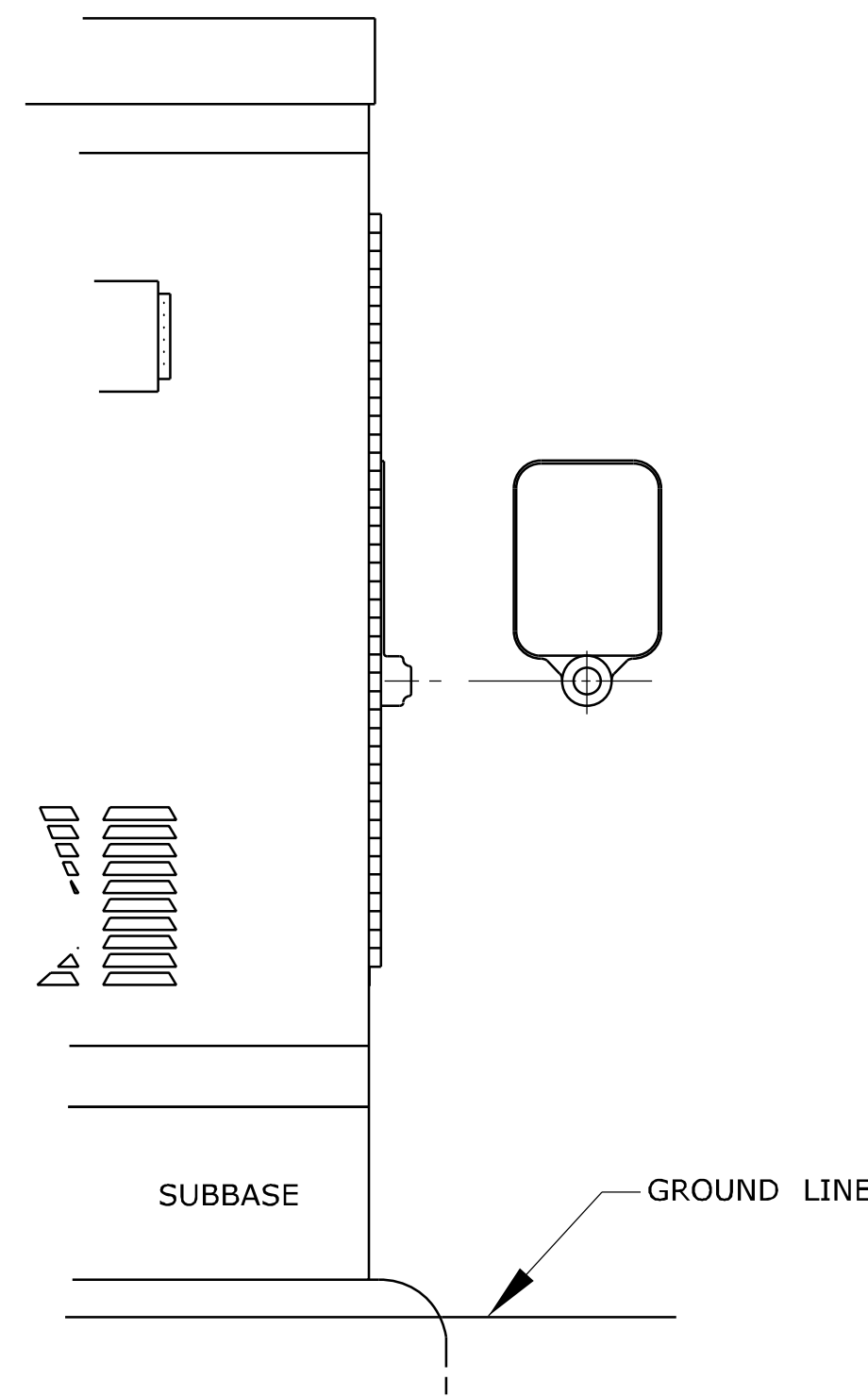
Filename: CTDOT\_TRAFFIC\_STD.dgn Model: TR-1102\_01

CTDOT  
STANDARD SHEET

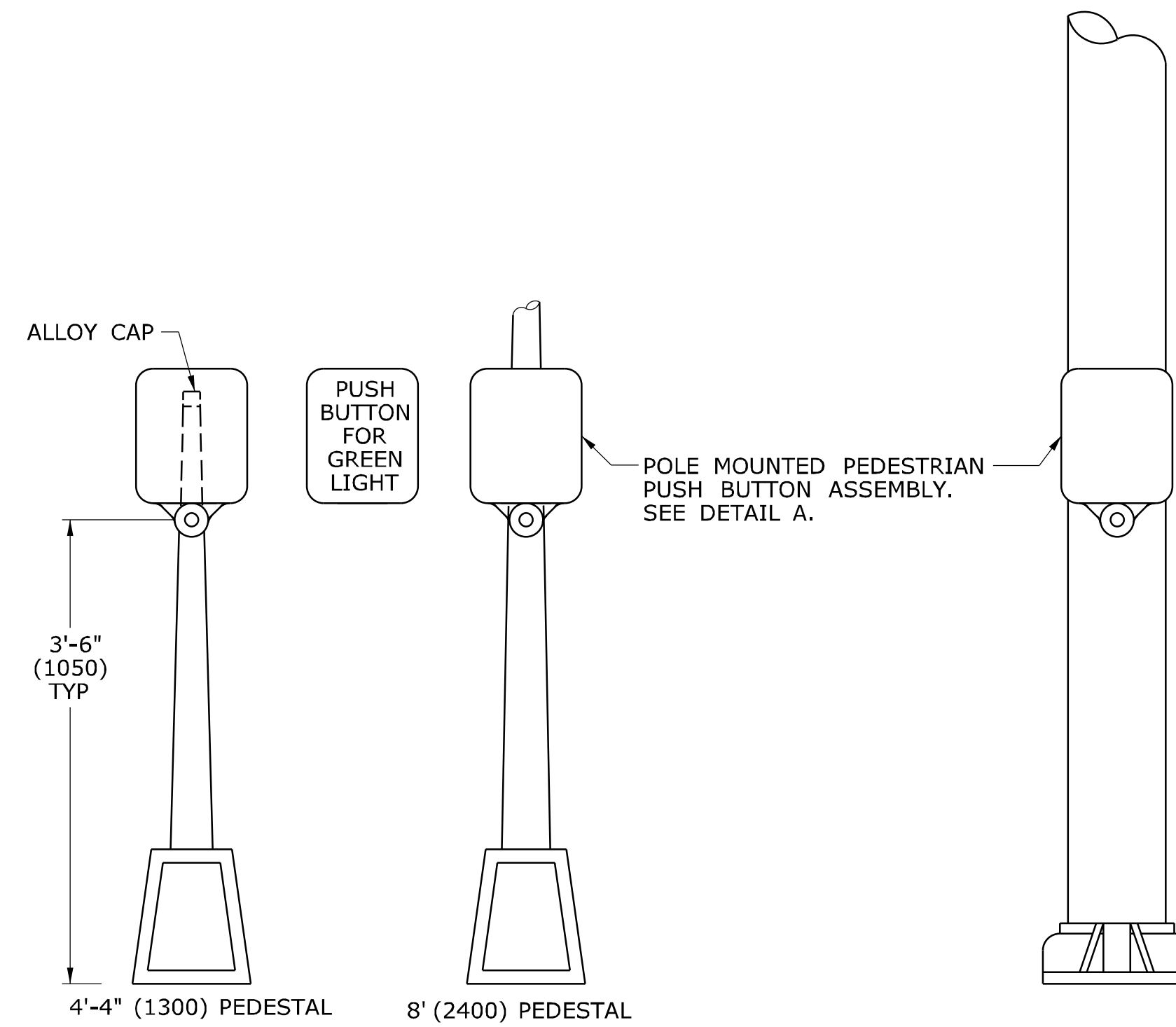
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:  
**PEDESTALS, PEDESTRIAN SIGNALS**

STANDARD SHEET NO.:  
**TR-1102\_01**

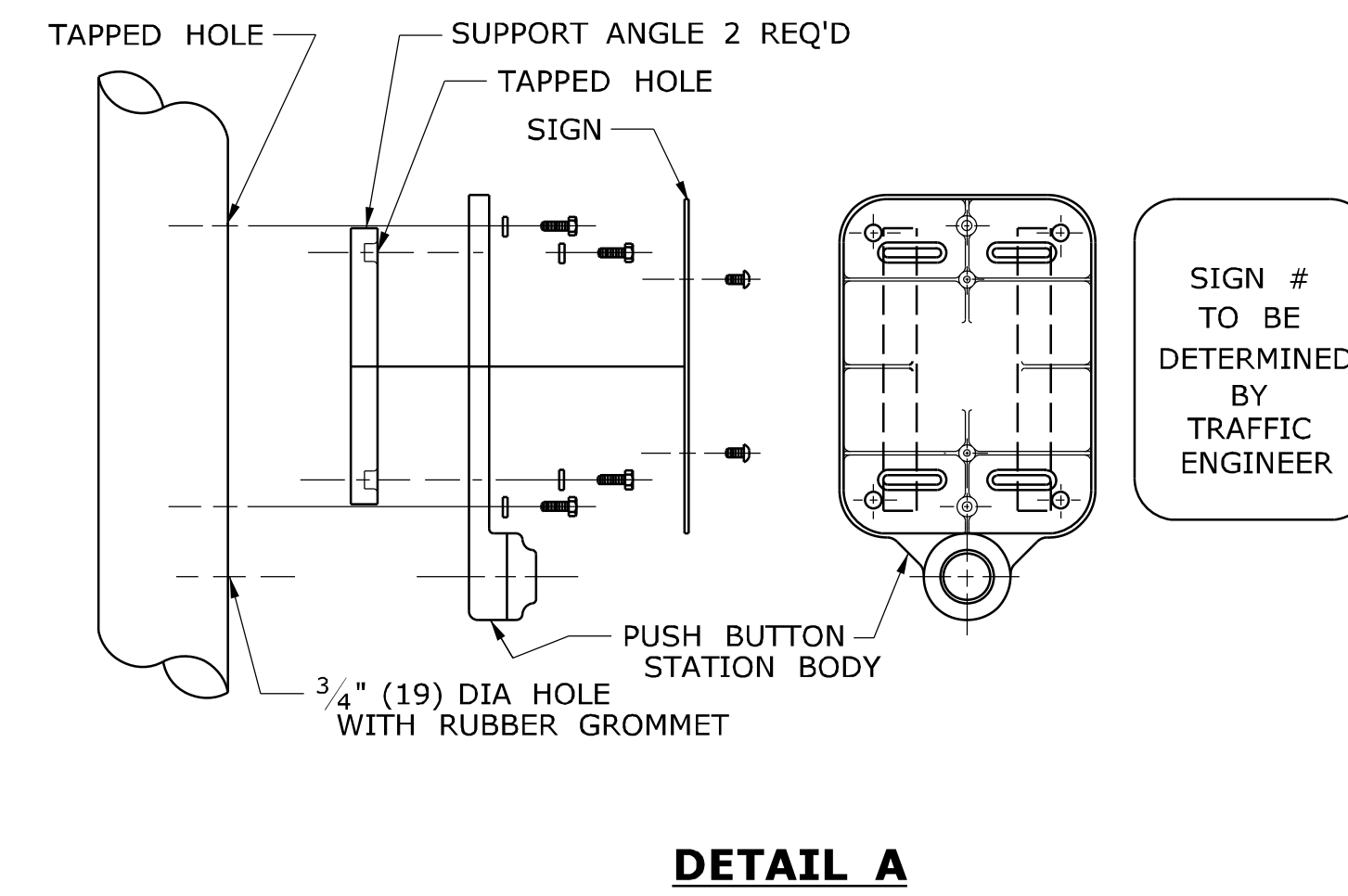


**SURFACE MOUNTED**



**PEDESTAL MOUNTED**

**SPAN POLE/MAST ARM MOUNTED**



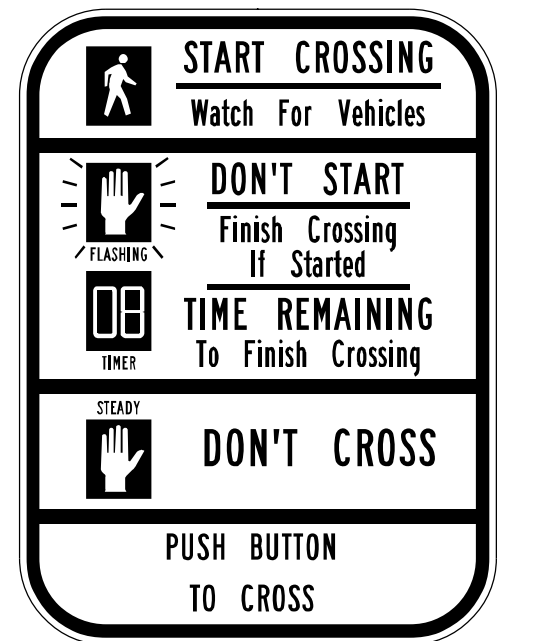
**DETAIL A**



SIGN # 31-0833  
\* VARIABLE ARROW



SIGN # 31-0835



SIGN # 31-0845

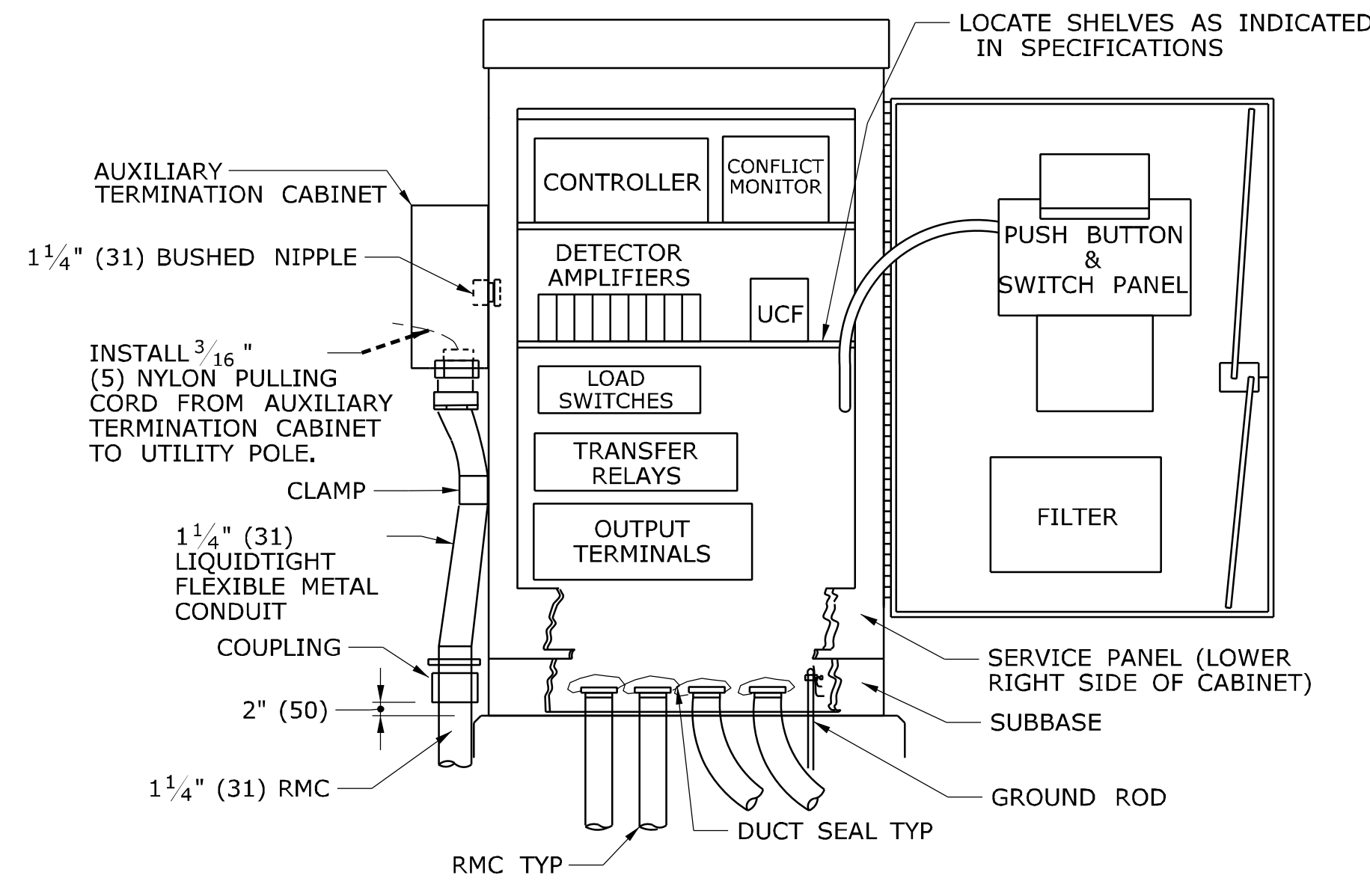
**GENERAL NOTES:**

- 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.

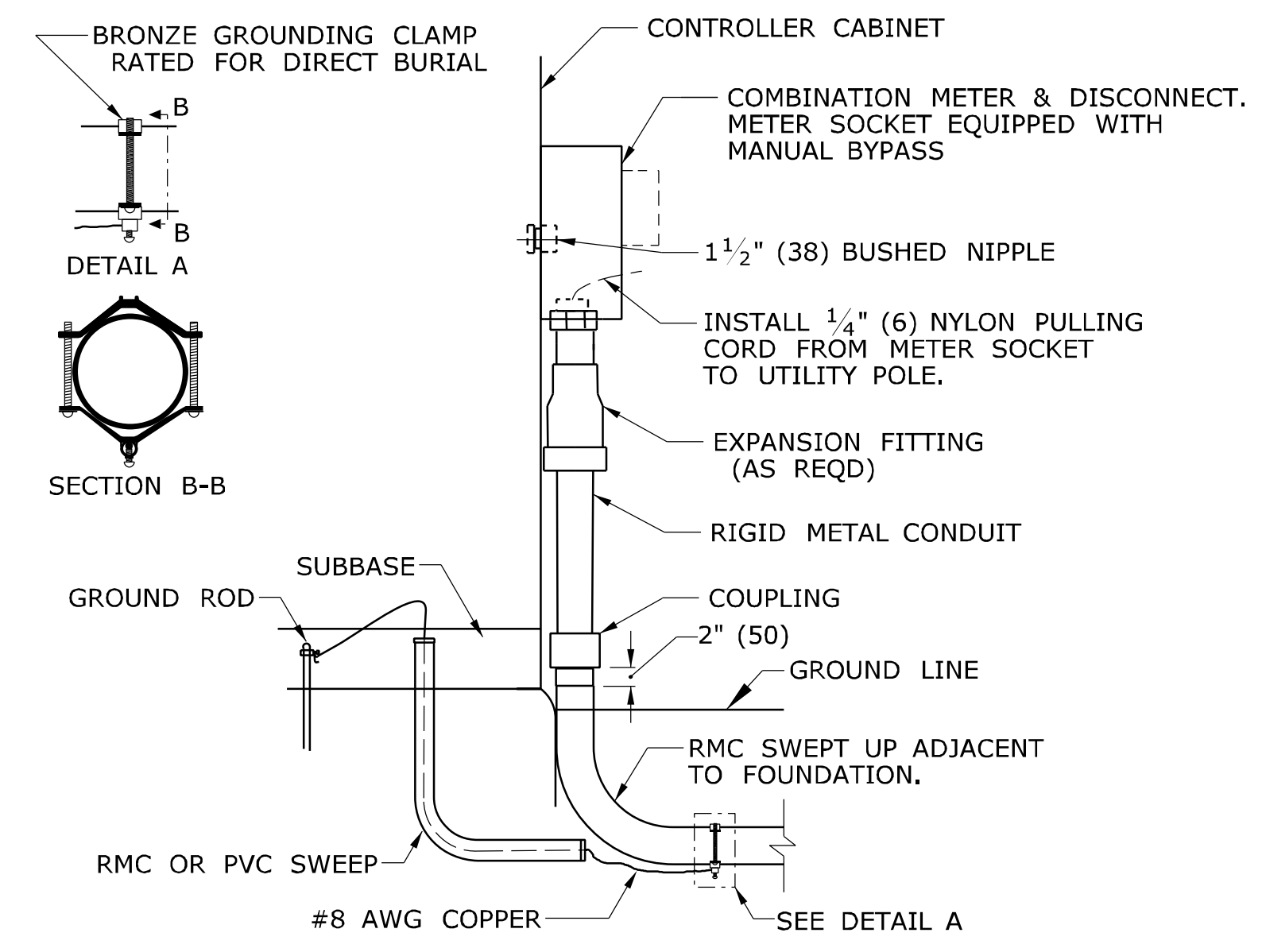
LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

	PEDESTRIAN PUSH BUTTON
	PEDESTRIAN PUSH BUTTON, PEDESTAL MOUNTED
	PEDESTRIAN PUSH BUTTON, POLE MOUNTED

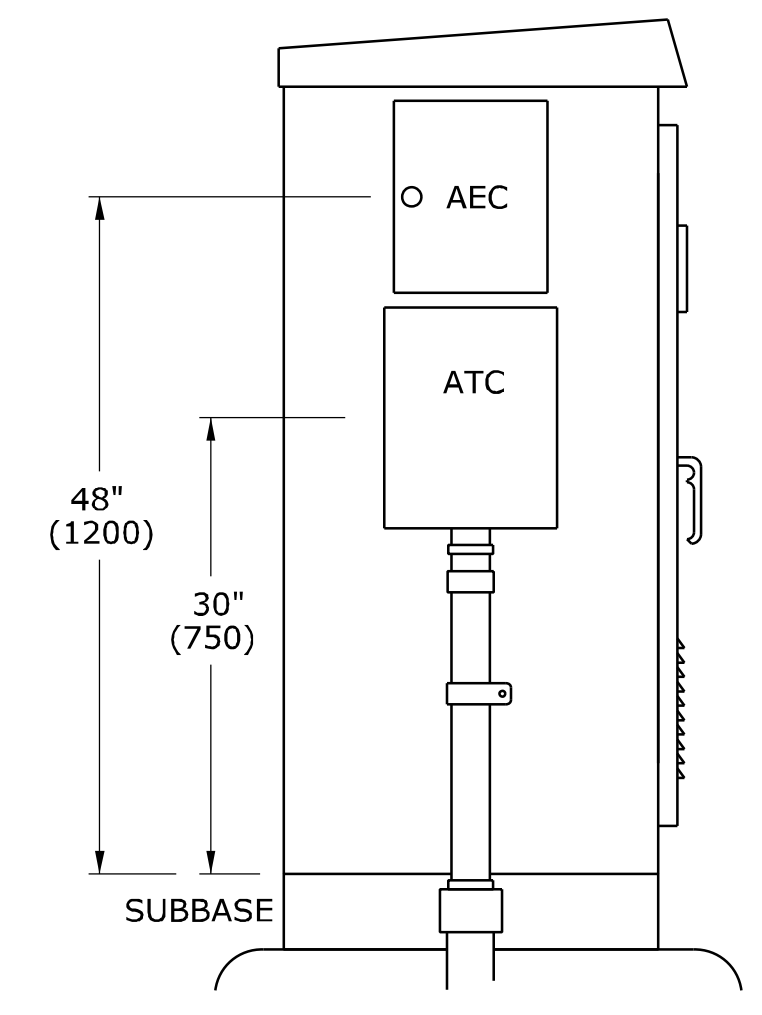
1 4-2012 MINOR REVISIONS & UPDATED SIGN #31-0845. REV. DATE REVISION DESCRIPTION	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DIMENSIONS ARE IN ENGLISH (') & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm. - UNDER 1" TO NEAREST 1 mm.	<b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b>	SUBMITTED BY: NAME/DATE/TIME: <i>Tracy L. Fogarty</i> Tracy L. Fogarty 2012.05.01 12:56:17-04'00'	<b>CTDOT</b> <b>STANDARD SHEET</b>  <b>OFFICE OF ENGINEERING</b>	STANDARD SHEET TITLE: <b>PEDESTRIAN PUSH BUTTONS</b>	STANDARD SHEET NO.: <b>TR-1107_01</b>
				APPROVED BY: NAME/DATE/TIME: <i>TW</i> Timothy M. Wilson 2012.05.09 10:25:56-04'00'		Plotted Date: 4/14/2012	Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1107_01



**TYPICAL BASE MOUNTED CONTROLLER ON TYPE IV FOUNDATION**



**CONTROLLER CABINET WITH METERED SERVICE**

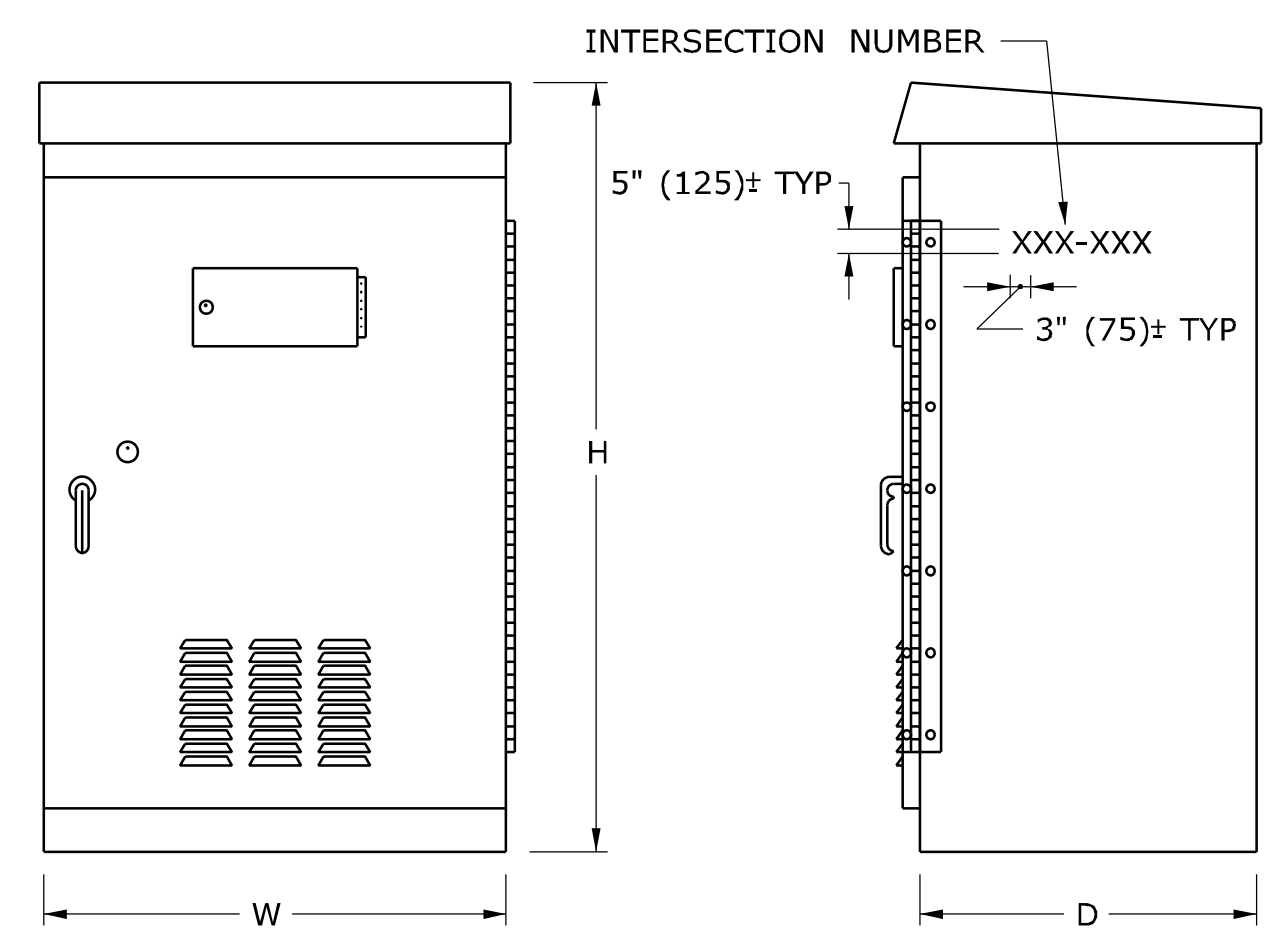


**AUXILIARY EQUIPMENT CABINET (AEC) AUXILIARY TERMINATION CABINET (ATC)**

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

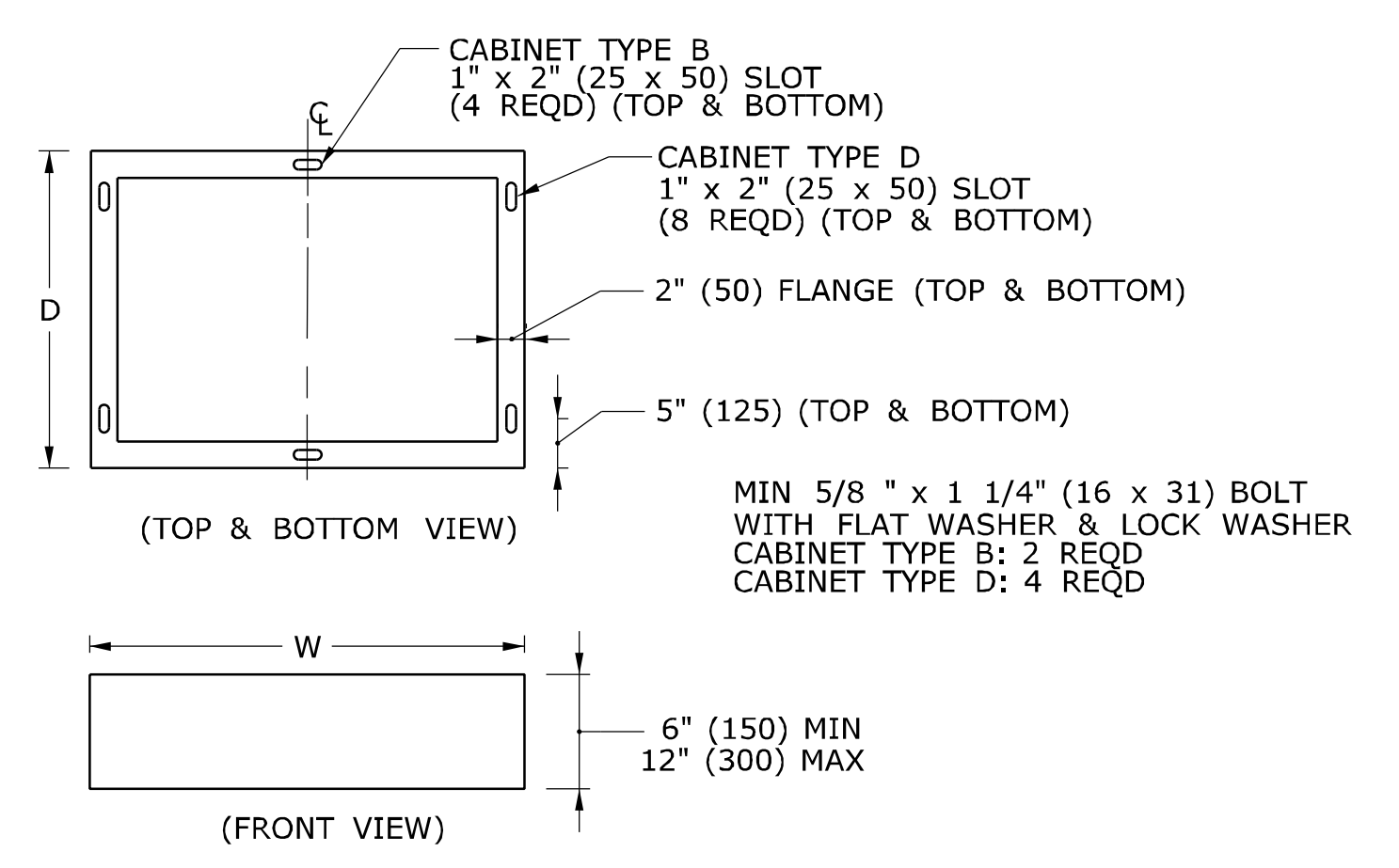
**GENERAL NOTES:**

- 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.



**BASE MOUNTED TRAFFIC CONTROLLER (TYPE B, D & E)**

CABINET TYPE	DEPTH		WIDTH		HEIGHT	
	MIN	MAX	MIN	MAX	MIN	MAX
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)
E	17" (425)	19" (475)	30" (750)	32" (800)	49" (1225)	52" (1300)



**SUBBASE**

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:  
 CONTROLLER ASSEMBLY  
 AUXILIARY EQUIPMENT CABINET  
 AUXILIARY TERMINATION CABINET

REV.	DATE	REVISION DESCRIPTION
1	4-2012	REVISED CABINET TYPES & MINOR REVISIONS.

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: 4/25/2012

DIMENSIONS ARE IN ENGLISH ("') & METRIC UNITS (mm).  
 METRIC DIMENSIONS ARE ROUNDED:  
 - OVER 1" TO NEAREST 5 mm  
 - UNDER 1" TO NEAREST 1 mm.  
 NOT TO SCALE

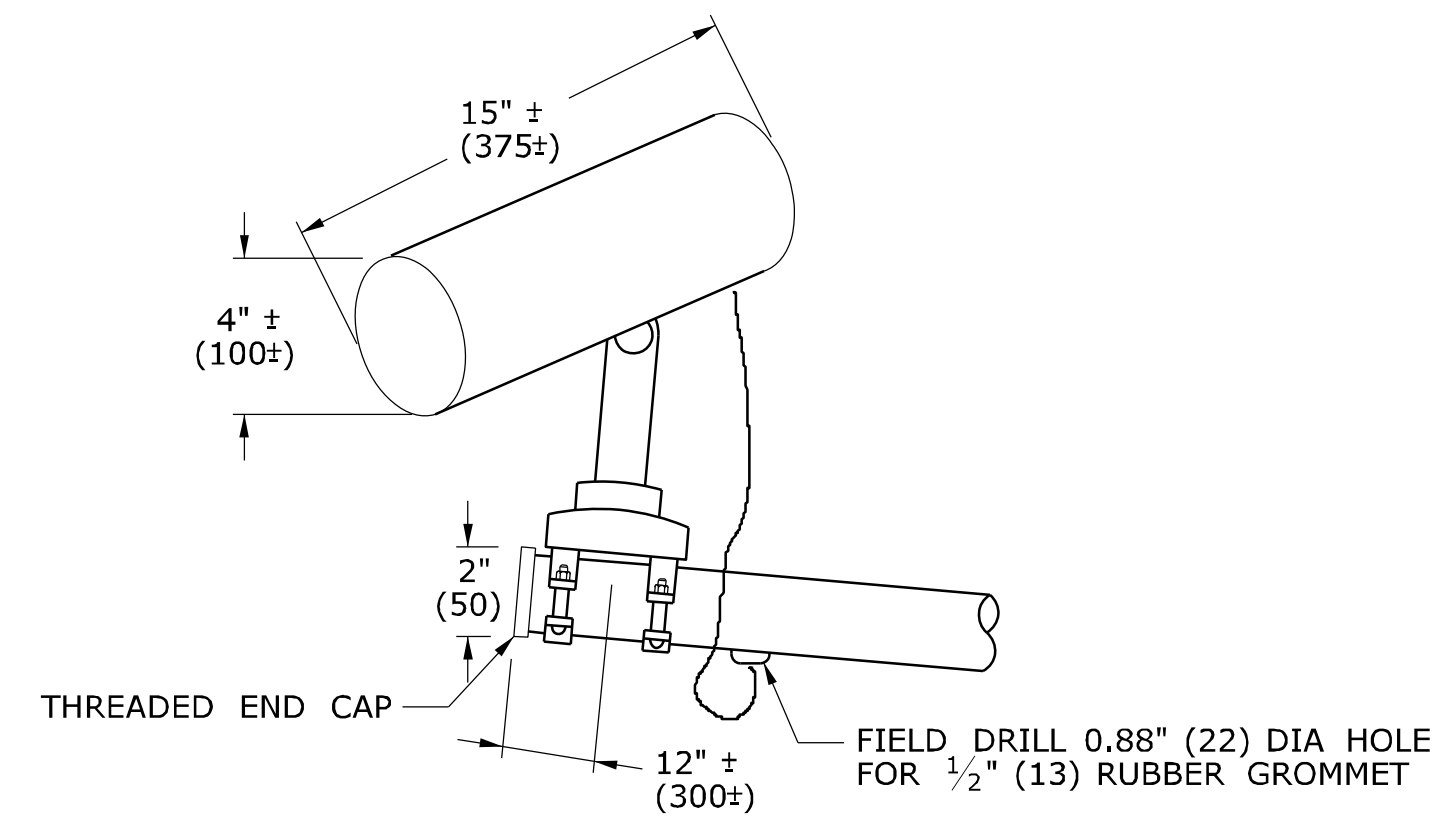
STATE OF CONNECTICUT  
 DEPARTMENT OF TRANSPORTATION  
 Filename: CTDOT\_TRAFFIC\_STD.dgn Model: TR-1108\_01

SUBMITTED BY: NAME/DATE/TIME:  
 Tracy L. Fogarty Tracy L. Fogarty 2012.05.01 12:56:32-04'00'  
 APPROVED BY: NAME/DATE/TIME:  
 Timothy M. Wilson Timothy M. Wilson 2012.05.09 10:26:13-04'00'

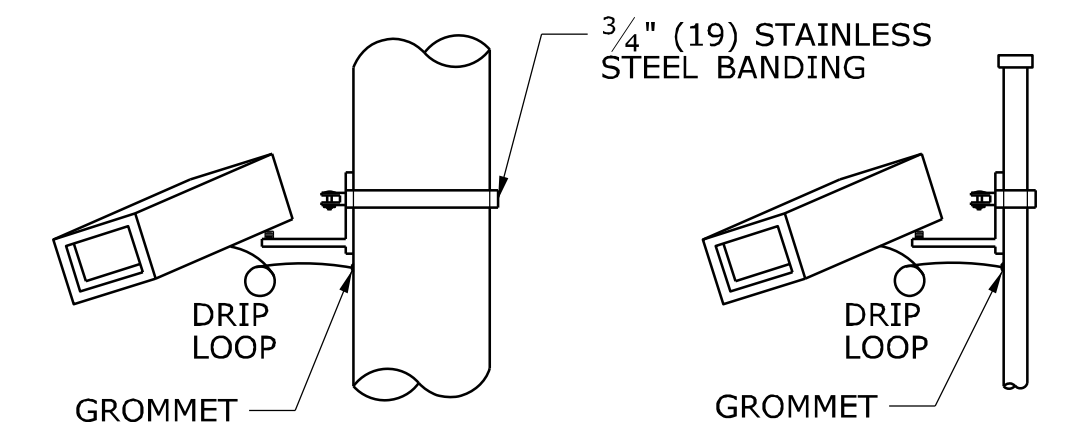
CTDOT  
 STANDARD SHEET  
 OFFICE OF ENGINEERING

STANDARD SHEET TITLE:  
**CONTROLLERS**

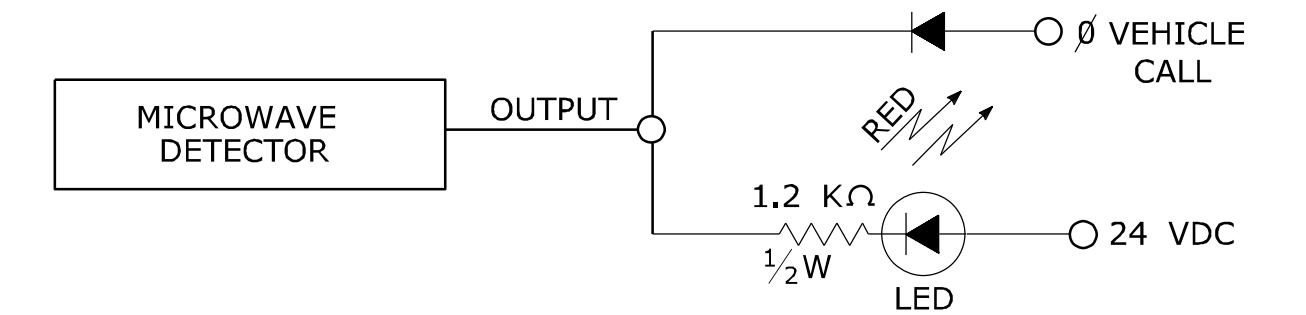
STANDARD SHEET NO.:  
**TR-1108\_01**



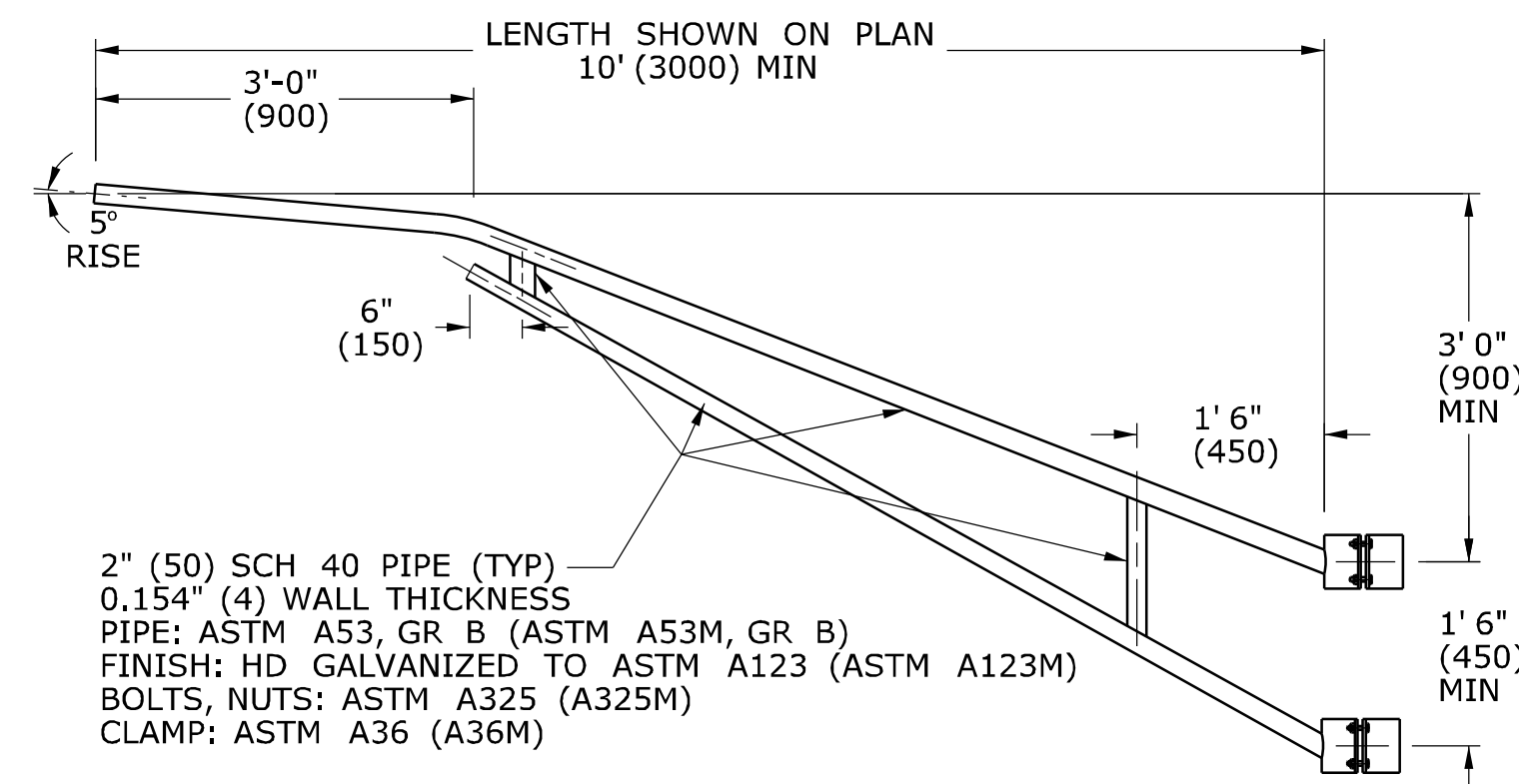
**VIDEO IMAGE DETECTION SYSTEM**



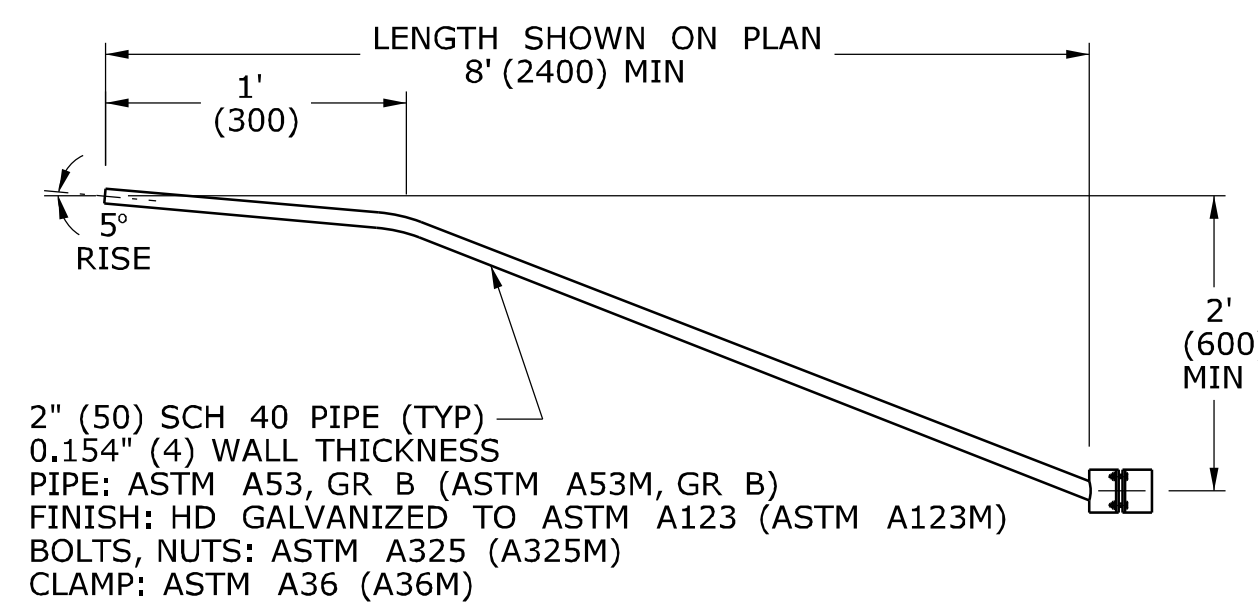
**SONIC (MICROWAVE) DETECTOR**



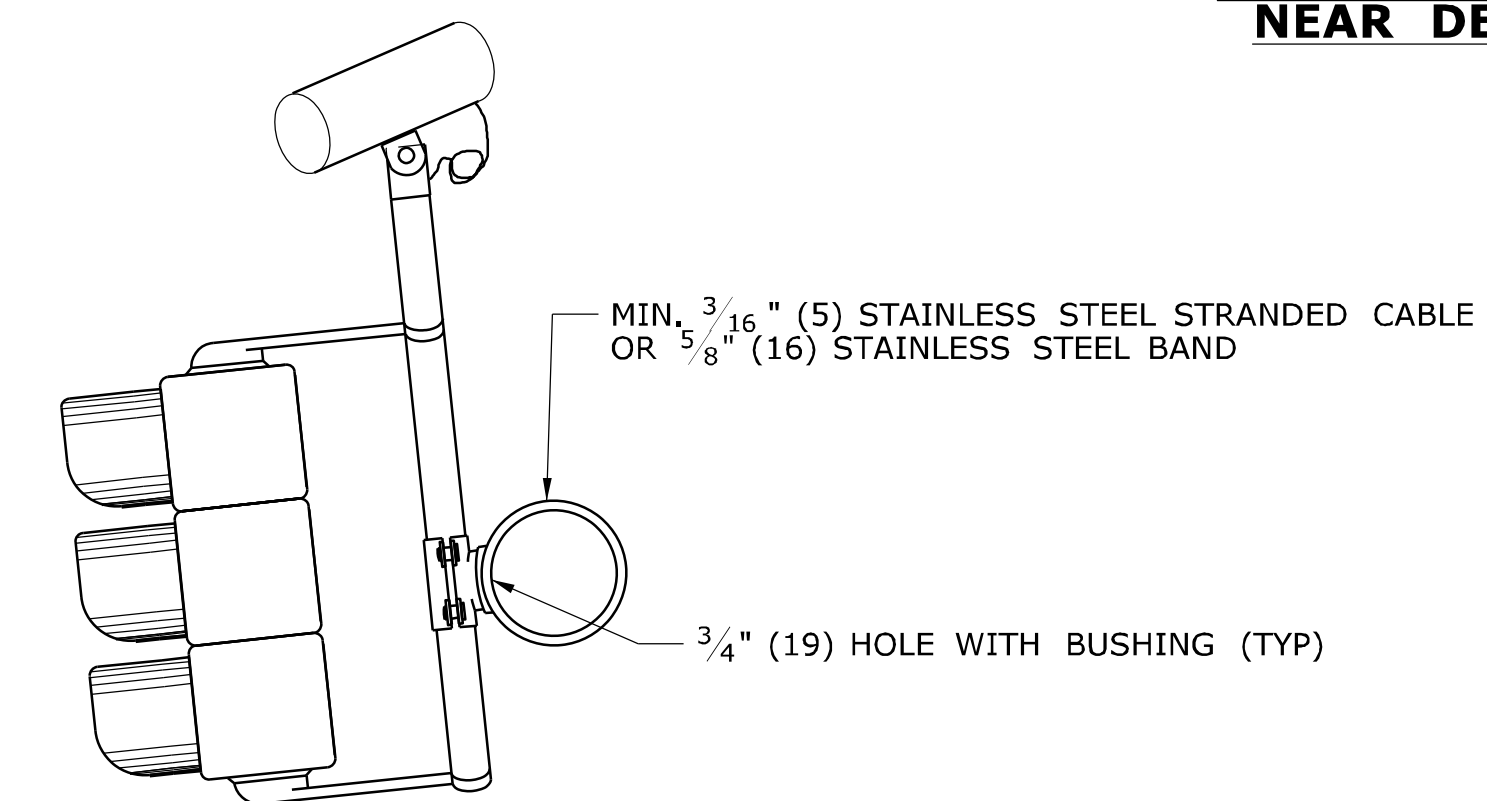
**MICROWAVE DETECTOR LED LOCATED IN CONTROLLER CABINET NEAR DETECTOR HOOKUP WIRES**



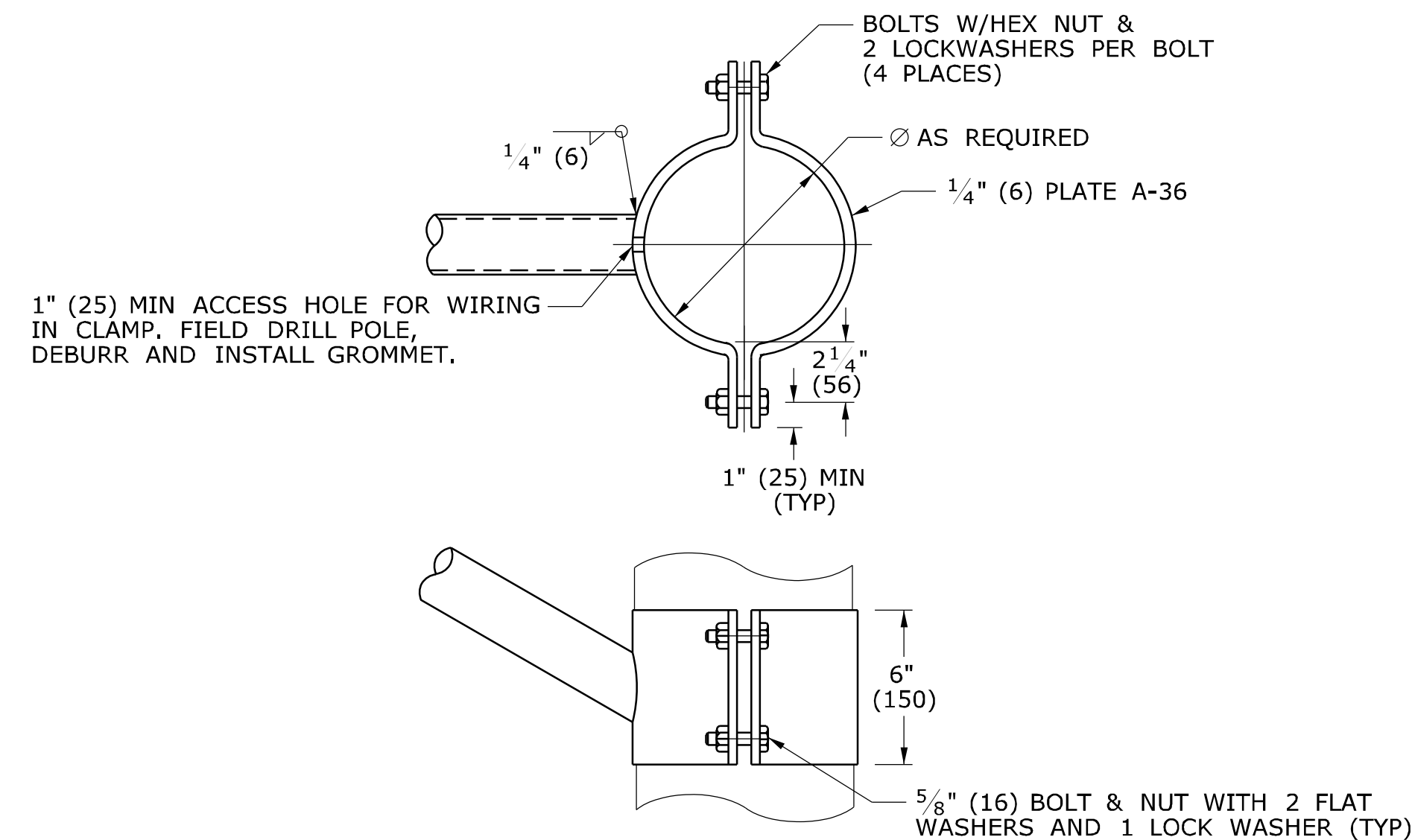
**POLE MOUNT CAMERA EXTENSION BRACKET, TRUSS**



**POLE MOUNT CAMERA EXTENSION BRACKET, SINGLE ARM**



**MAST ARM MOUNT CAMERA EXTENSION BRACKET**

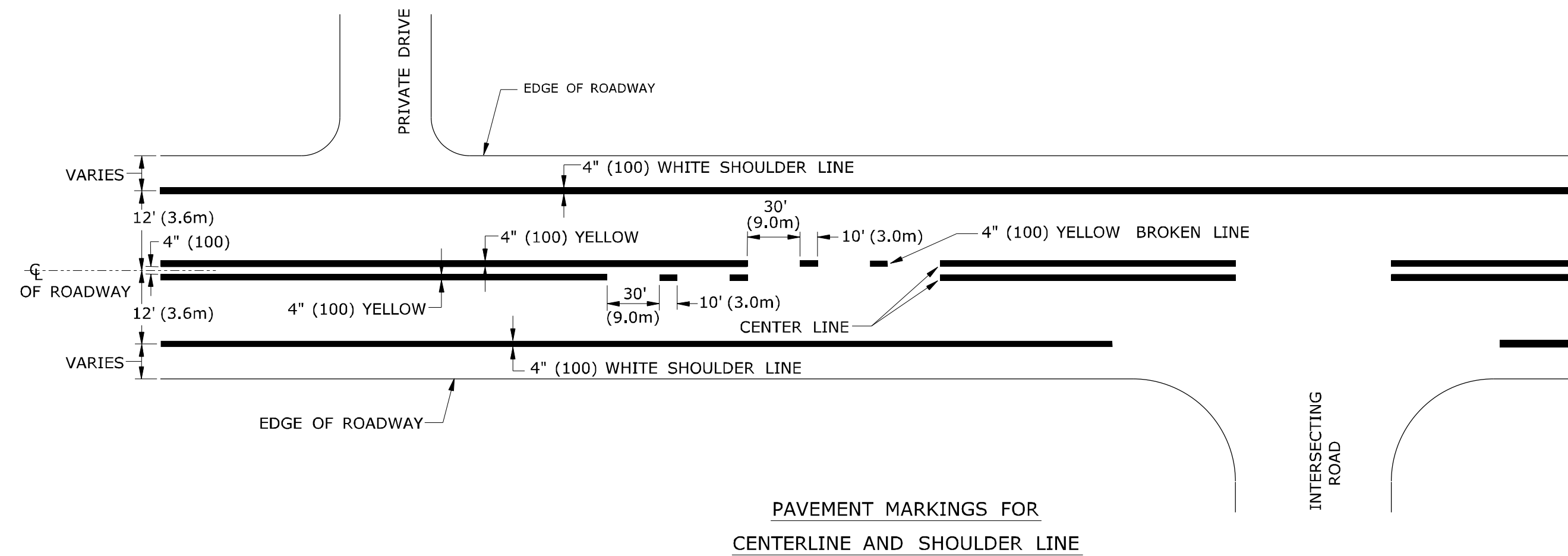


**ARM CLAMP DETAIL**

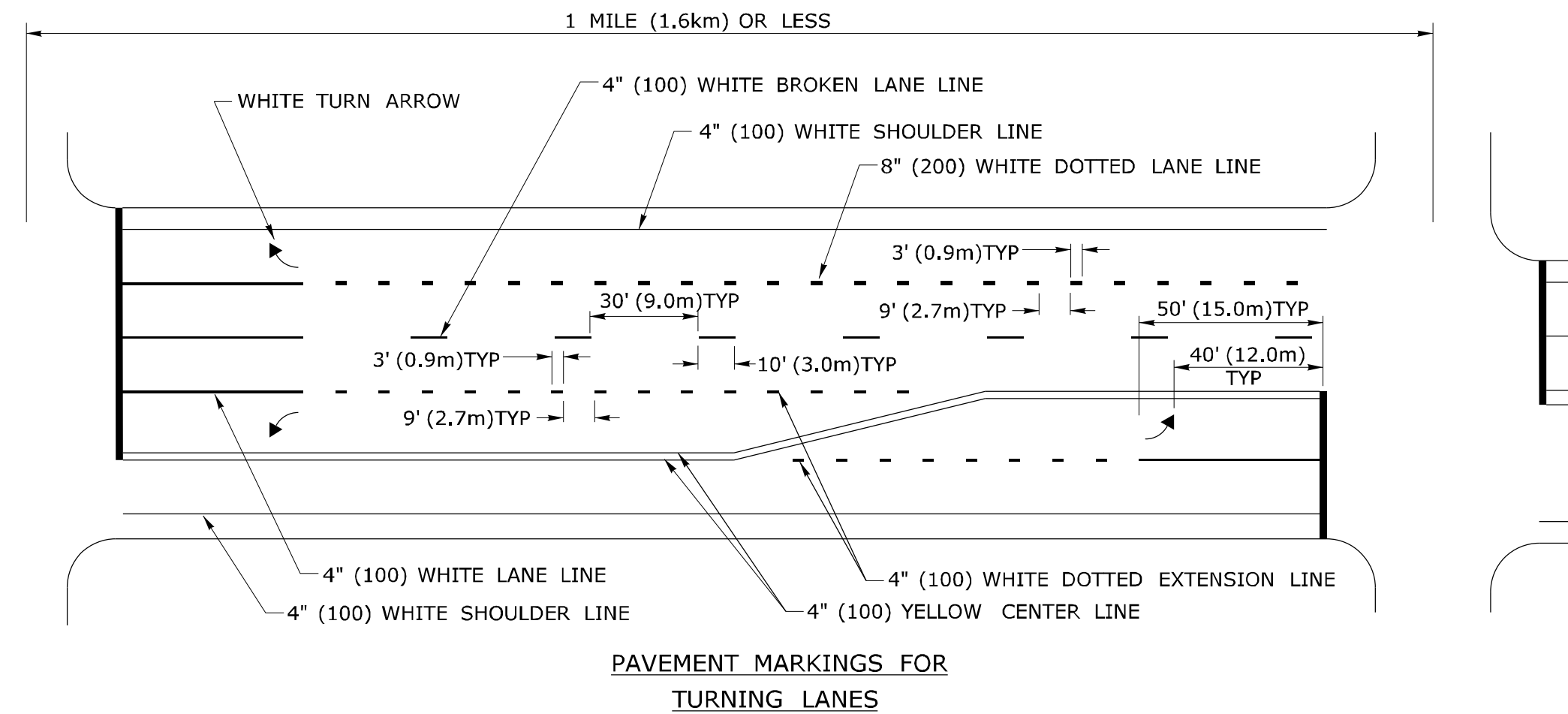
LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:  
 ● MICROWAVE DETECTOR  
 □ VIDS CAMERA ON EXTENSION BRACKET

REV.	DATE	REVISION DESCRIPTION	Plotted Date: 9/11/2009	NOT TO SCALE	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SUBMITTED BY: Tracy L. Fogarty NAME/DATE/TIME: Tracy L. Fogarty 2009.09.15 08:12:11 -04'00' APPROVED BY: John F. Carey NAME/DATE/TIME: John F. Carey 2009.09.16 08:25:37 -04'00'	CTDOT STANDARD SHEET OFFICE OF ENGINEERING	STANDARD SHEET TITLE: VEHICLE DETECTION SYSTEMS	STANDARD SHEET NO.: TR-1111_02
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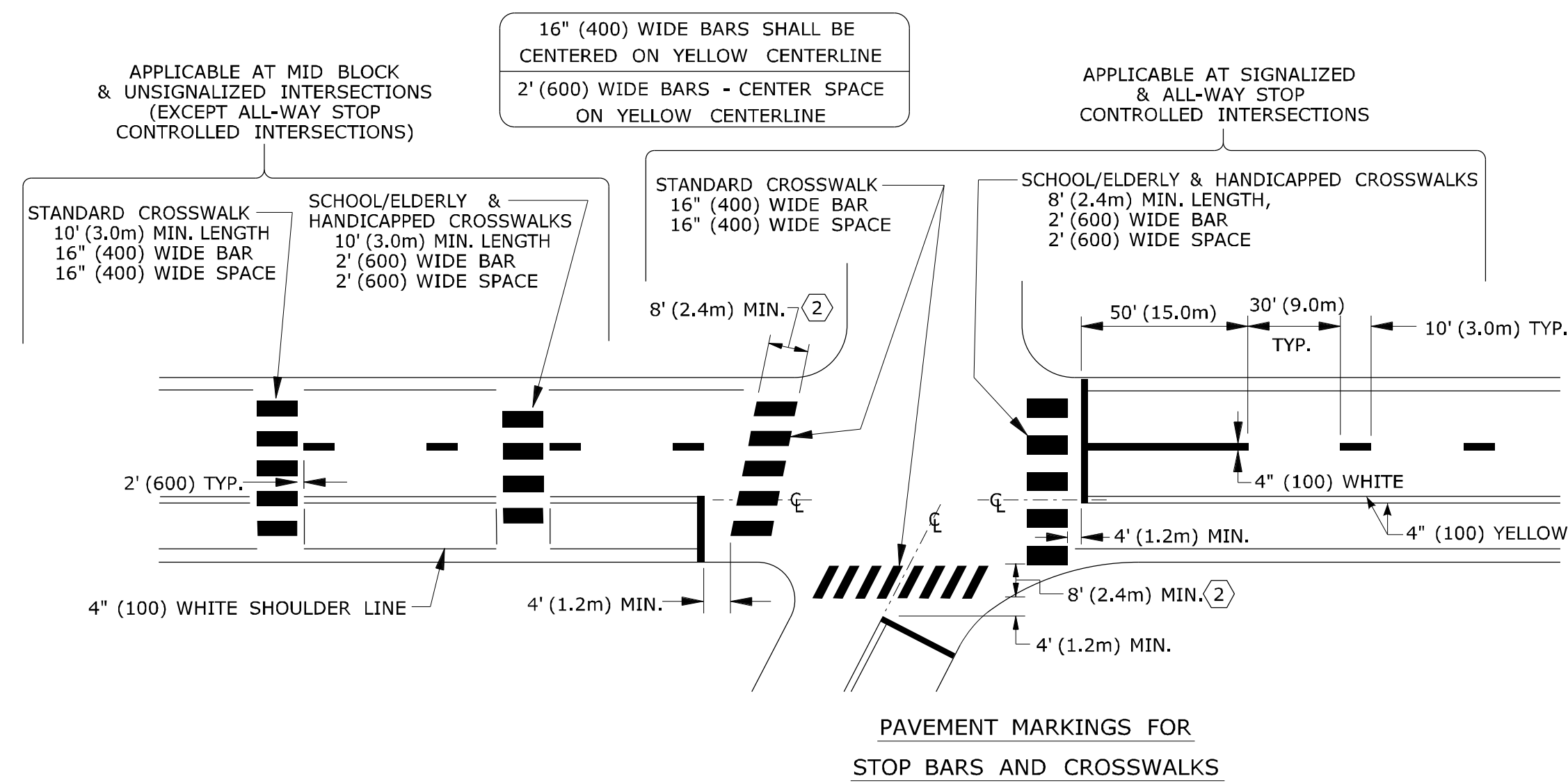




PAVEMENT MARKINGS FOR CENTERLINE AND SHOULDER LINE



PAVEMENT MARKINGS FOR TURNING LANES

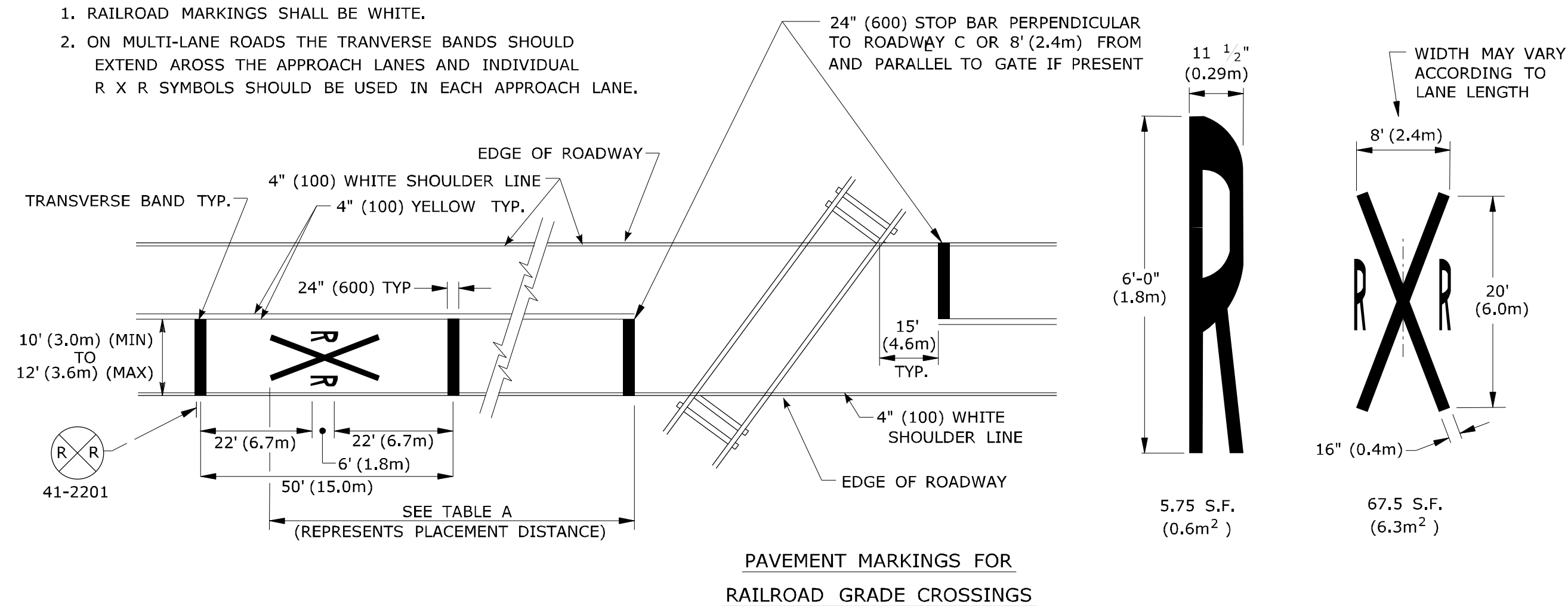


PAVEMENT MARKINGS FOR STOP BARS AND CROSSWALKS

- 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.

- CROSSWALKS
- CROSSWALK MARKINGS SHALL BE WHITE.
  - AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO  $\bar{C}$  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.

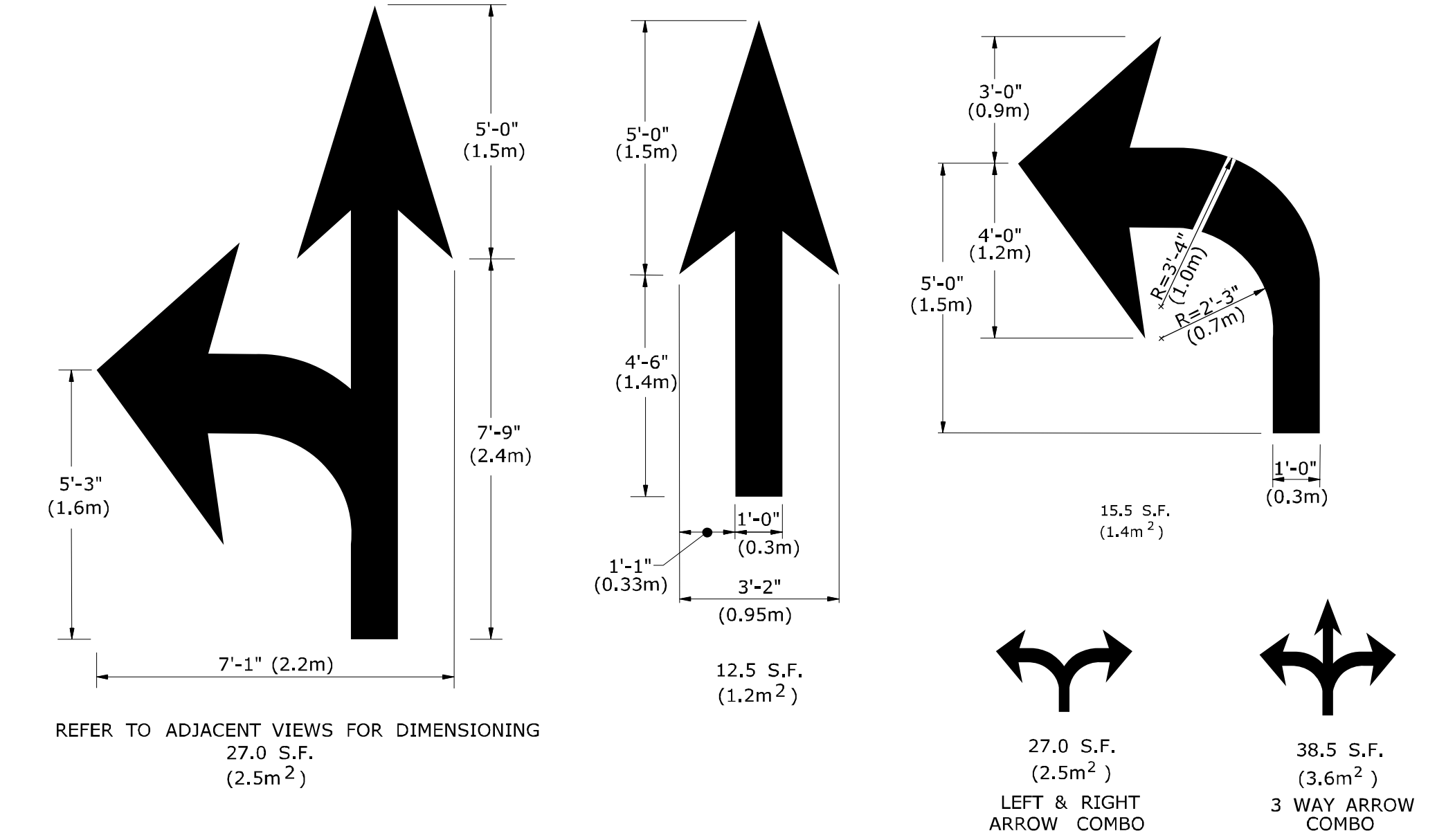
- NOTES:
- RAILROAD GRADE CROSSINGS
- RAILROAD MARKINGS SHALL BE WHITE.
  - ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS THE APPROACH LANES AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.



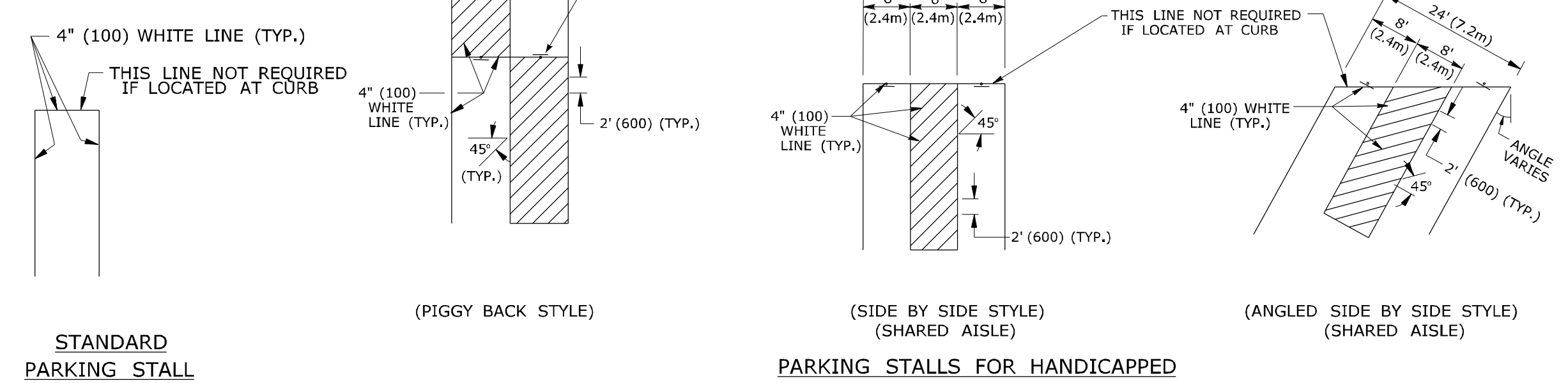
PAVEMENT MARKINGS FOR RAILROAD GRADE CROSSINGS

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).



PAVEMENT ARROW DETAILS (WHITE)  
ARROWS SHALL BE CENTERED IN TRAVEL LANE



- NOTES:
- PAVEMENT MARKING
- FOR PAVEMENT MARKINGS ON A CLIMBING LANE SEE DETAIL "L" ON TRAFFIC STANDARD SHEET TR-1210.02 "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

E5 - SERIES				G20 - SERIES				M4 - SERIES				R1 - SERIES				R9 & R11 - SERIES				W1 - SERIES				W3 - SERIES																																																																																																																							
<p>COPY &amp; BORDER - WHITE BACKGROUND - GREEN</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>51-6147</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	51-6147	2	<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>8.0</td><td>48X24</td><td>80-9612</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	8.0	48X24	80-9612	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>90.0</td><td>120X108</td><td>80-9728</td><td></td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	90.0	120X108	80-9728		<p>VARIABLE ARROW</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>2.0</td><td>24X12</td><td>80-9707</td><td>1</td></tr> <tr><td>5.0</td><td>30X24</td><td>80-9703</td><td>1</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.0	24X12	80-9707	1	5.0	30X24	80-9703	1	<p>* COPY &amp; BORDER - WHITE BACKGROUND - RED</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>5.19</td><td>30</td><td>31-0552</td><td>1</td></tr> <tr><td>13.30</td><td>48</td><td>31-0557</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	5.19	30	31-0552	1	13.30	48	31-0557	2	<p>COPY &amp; BORDER - BLACK BACKGROUND - WHITE</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>3.75</td><td>30X18</td><td>80-9076</td><td>1</td></tr> <tr><td>12.5</td><td>60X30</td><td>80-9077</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	3.75	30X18	80-9076	1	12.5	60X30	80-9077	2	<p>VARIABLE MILEAGE COPY &amp; BORDER - BLACK BACKGROUND - WHITE</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>80-9432L</td><td>1</td></tr> <tr><td>9.0</td><td>36</td><td>80-9431R</td><td>1</td></tr> <tr><td>16.0</td><td>48</td><td>80-9452L</td><td>2</td></tr> <tr><td>16.0</td><td>48</td><td>80-9451R</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9432L	1	9.0	36	80-9431R	1	16.0	48	80-9452L	2	16.0	48	80-9451R	2	<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>80-9432L</td><td>1</td></tr> <tr><td>9.0</td><td>36</td><td>80-9431R</td><td>1</td></tr> <tr><td>16.0</td><td>48</td><td>80-9452L</td><td>2</td></tr> <tr><td>16.0</td><td>48</td><td>80-9451R</td><td>2</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9432L	1	9.0	36	80-9431R	1	16.0	48	80-9452L	2	16.0	48	80-9451R	2	<p>OCTAGON - RED W/ WHITE BORDER ARROW &amp; BORDER - BLACK BACKGROUND - ORANGE</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>80-9808</td><td>1</td></tr> </table>				AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9808	1
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METRIC CONVERSION CHART (1" = 25mm)

ENGLISH	METRIC	ENGLISH	METRIC
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.

DIMENSIONS ARE IN ENGLISH ("") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

FILENAME: CTDOT\_TRAFFIC\_STD.dgn MODEL: TR-1220\_01

SUBMITTED BY: NAME/DATE/TIME: Charles S. Harlow 2012.05.01 15:05:28-04'00"

APPROVED BY: NAME/DATE/TIME: Timothy M. Wilson 2012.05.09 10:28:00-04'00"

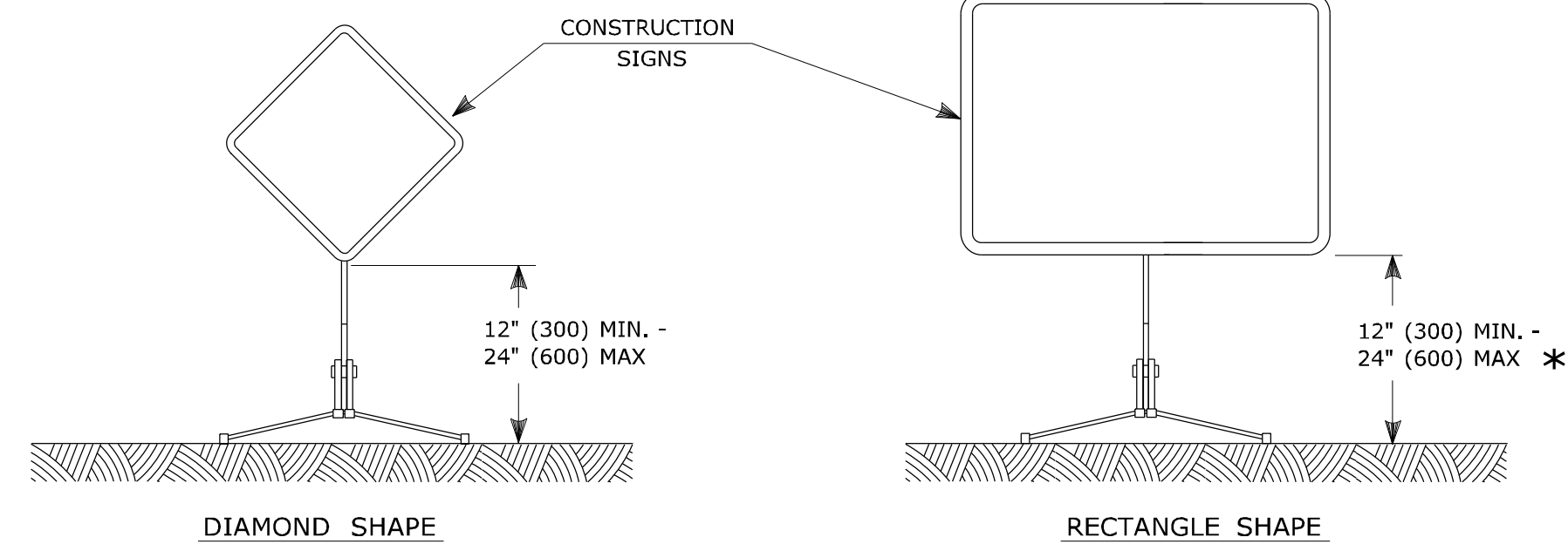
CTDOT STANDARD SHEET OFFICE OF ENGINEERING

SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS TR-1220\_01

STANDARD SHEET NO.:

REV.	DATE	REVISION DESCRIPTION
3	4-2012	REVISED NEW SIGNAL SIGN(S) TO CONFORM TO 2009 MUTCD.
2	2-2011	MINOR REVISIONS.
1	3-2010	REMOVED OBSOLETE SIGNS (50-5925, 50-5935).

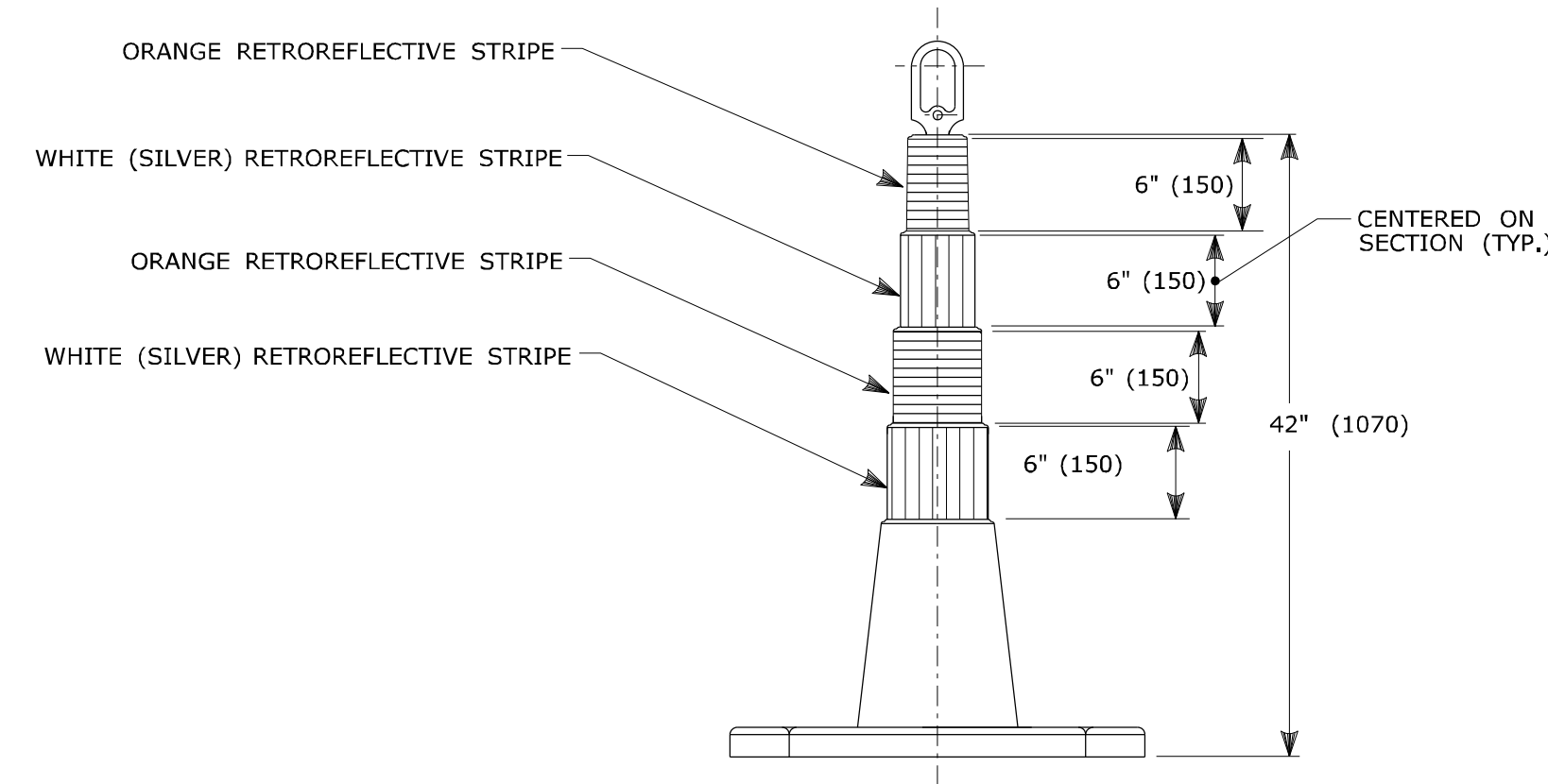
Plotted Date: 4/28/2012



**CONSTRUCTION SIGNS**

NOTES FOR PORTABLE SIGN SUPPORTS:

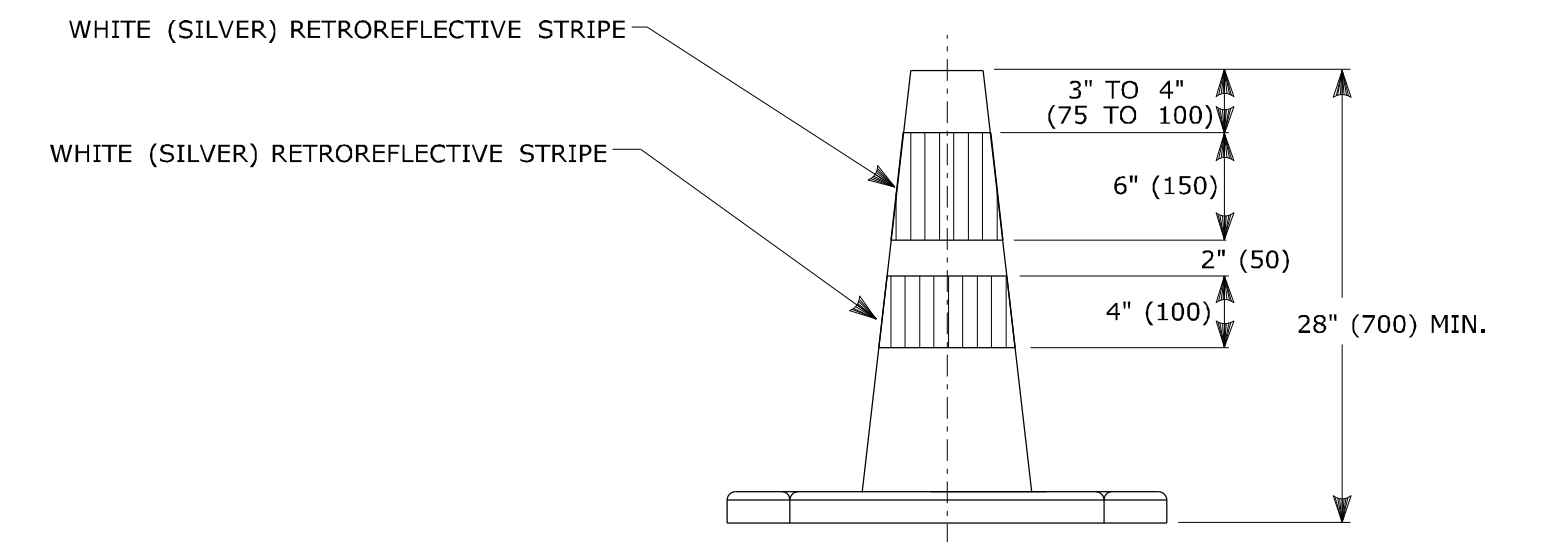
- SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
  - MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" (300) AND A MAXIMUM OF 24" (600). SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED 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).



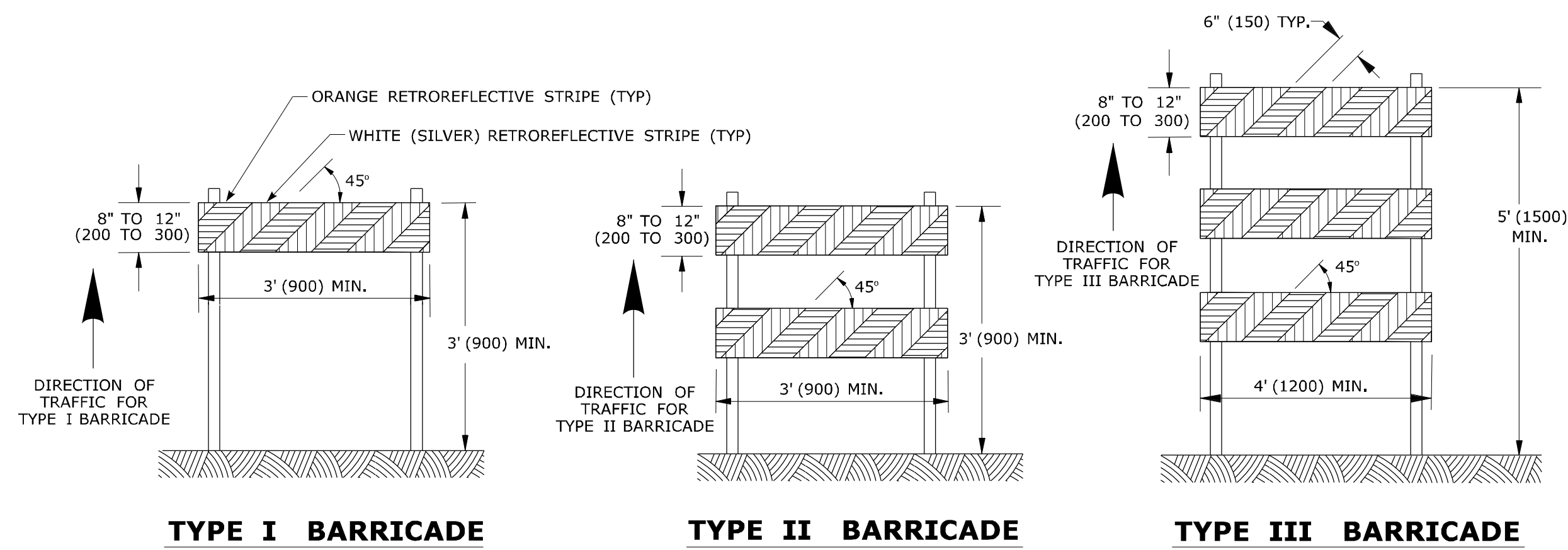
**42" (1m) TRAFFIC CONE**

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.



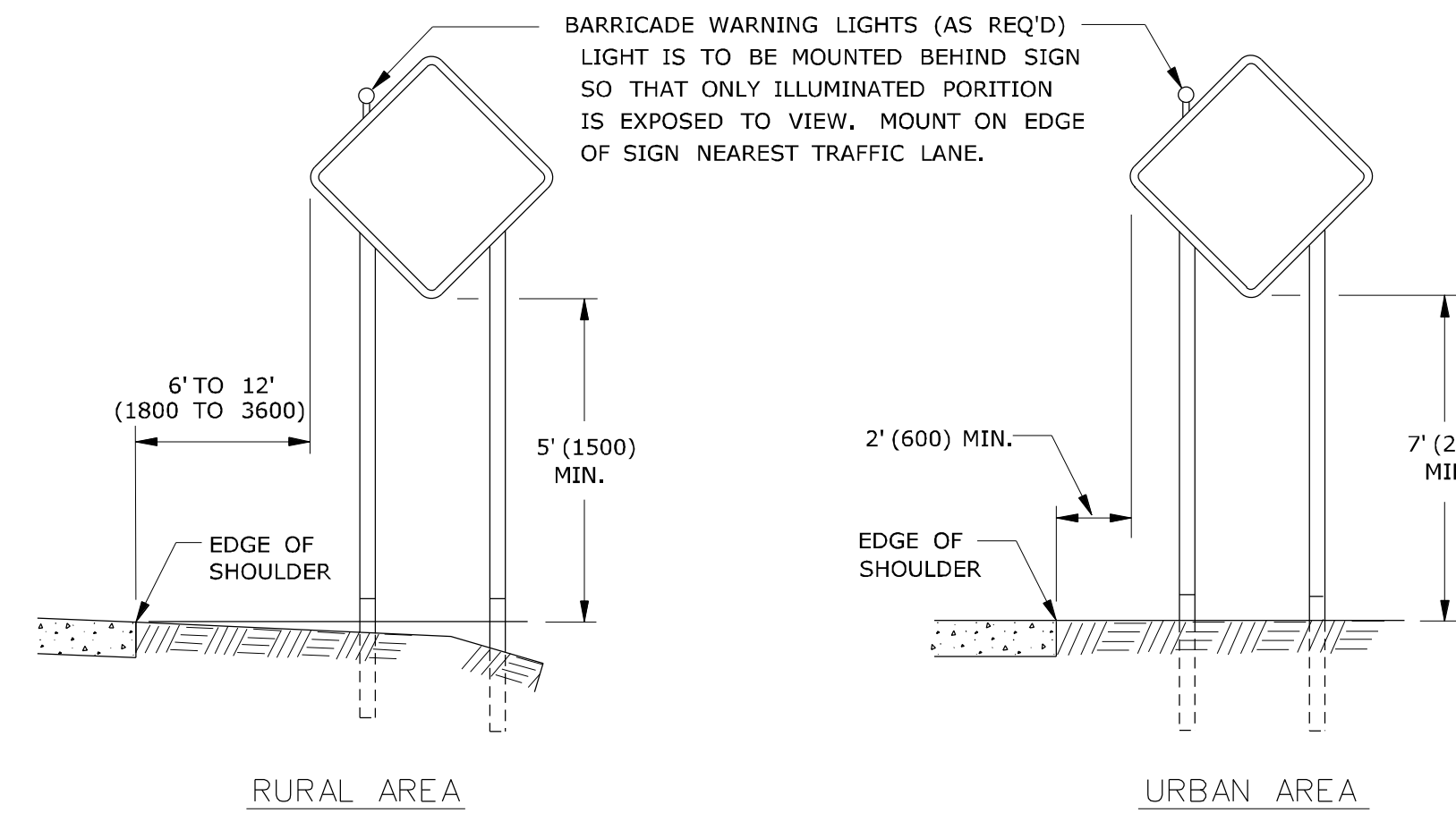
**TRAFFIC CONE**



**CONSTRUCTION BARRICADES**

NOTES:

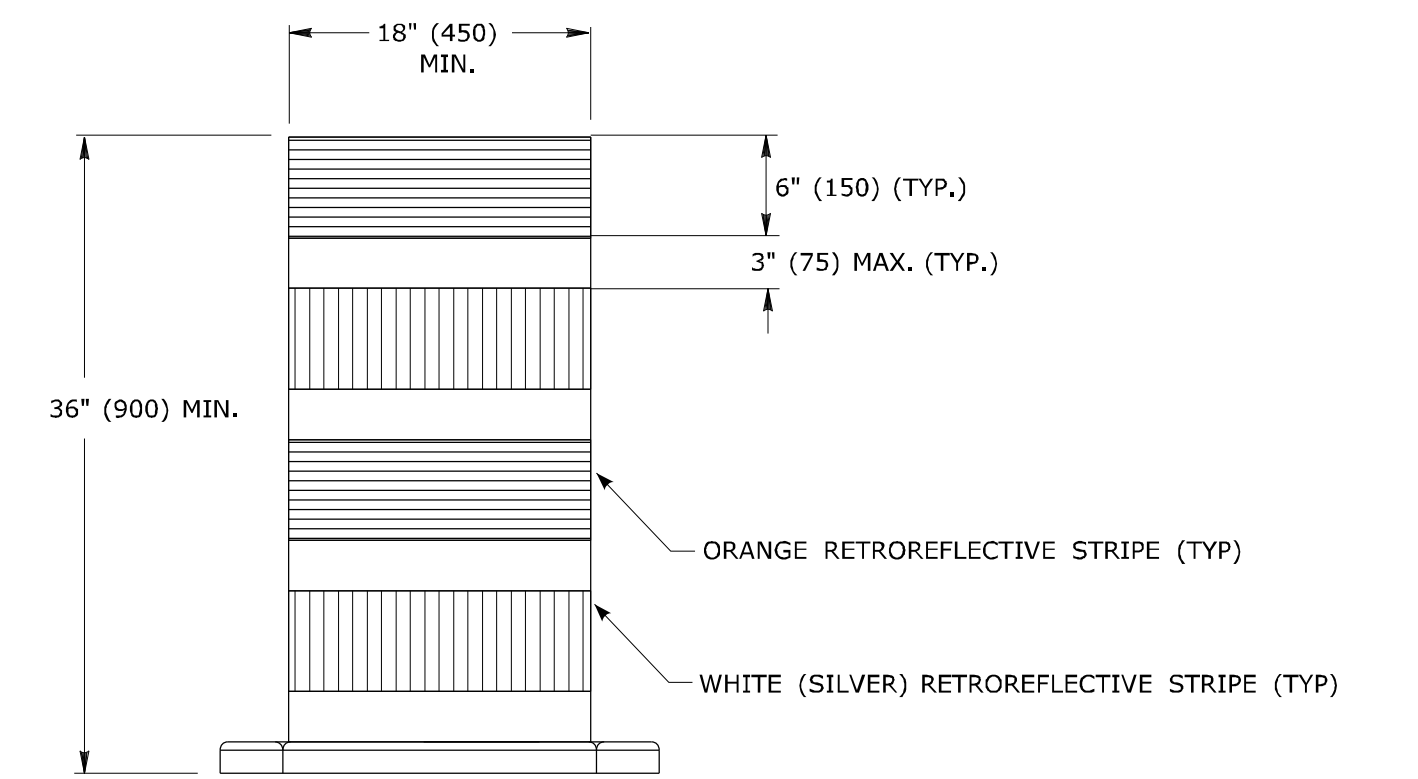
- CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
- MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" (150) WIDE STRIPES SHALL BE USED.
- THE ENTIRE 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"



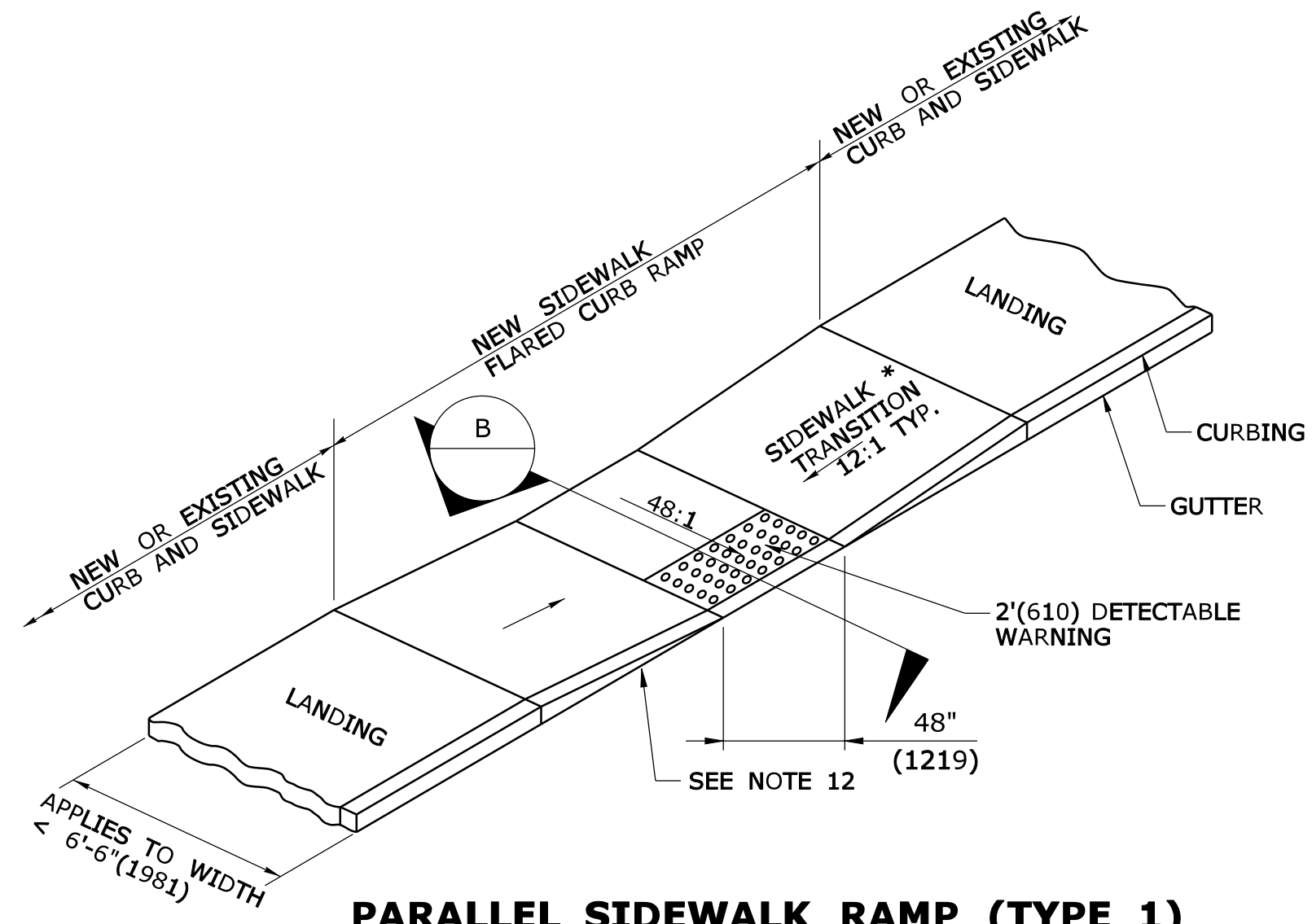
**TRAFFIC DRUM  
FRONT VIEW**

NOTES:

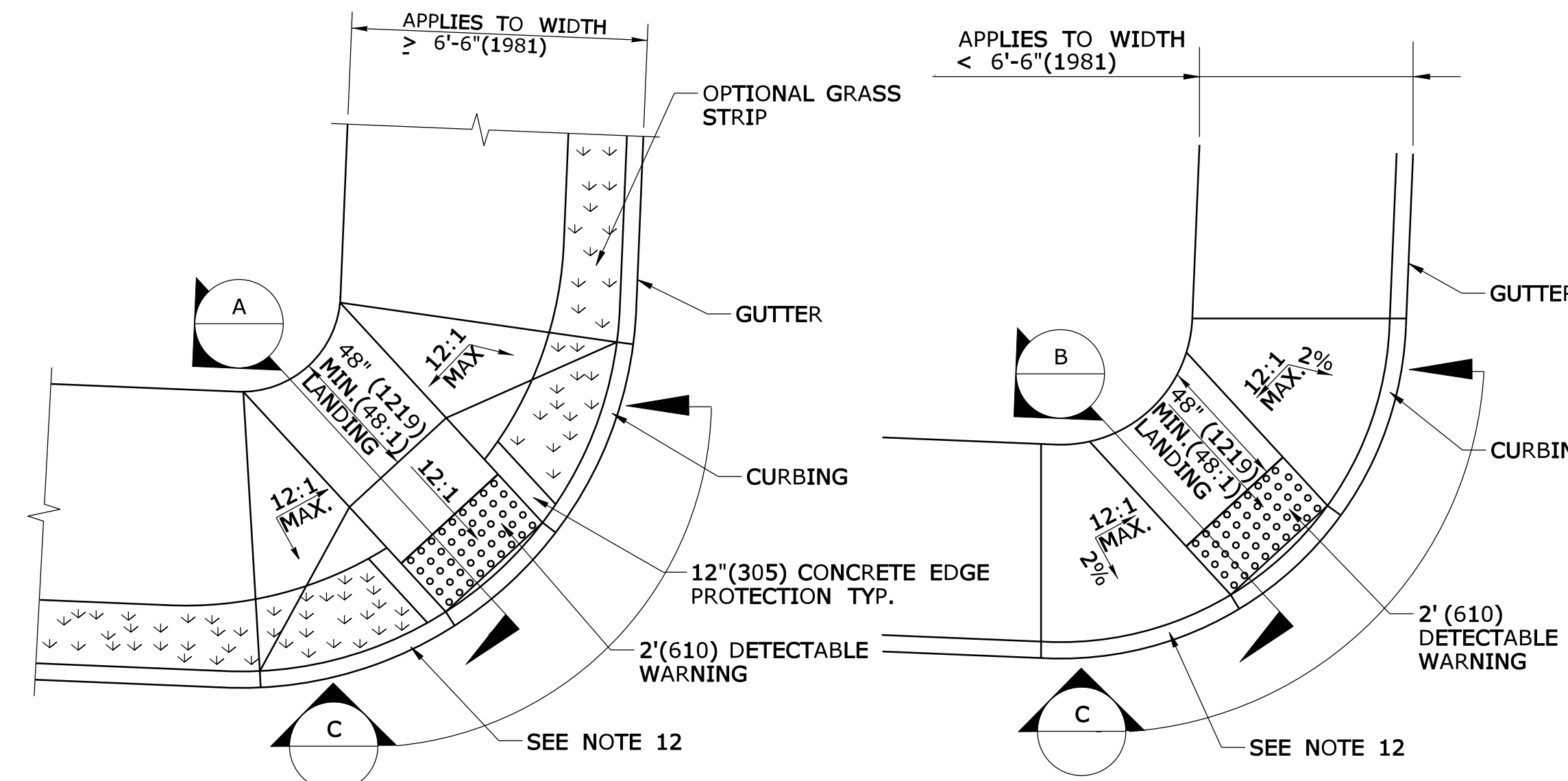
- TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) AND THE LATEST EDITION OF THE MUTCD.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED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

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: 2/16/2011		DIMENSIONS ARE IN ENGLISH ("') & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm. - UNDER 1" TO NEAREST 1 mm.		SUBMITTED BY: Charles S. Harlow NAME/DATE/TIME: 2011.02.22 11:16:41 -05'00'		STANDARD SHEET TITLE: <b>CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES</b>		STANDARD SHEET NO.: <b>TR-1220_02</b>	
1 2-2011 MINOR REVISIONS. REV. DATE REVISION DESCRIPTION		NOT TO SCALE Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1220_02		APPROVED BY: John F. Carey NAME/DATE/TIME: 2011.03.02 09:24:06 -05'00'		CTDOT STANDARD SHEET OFFICE OF ENGINEERING			



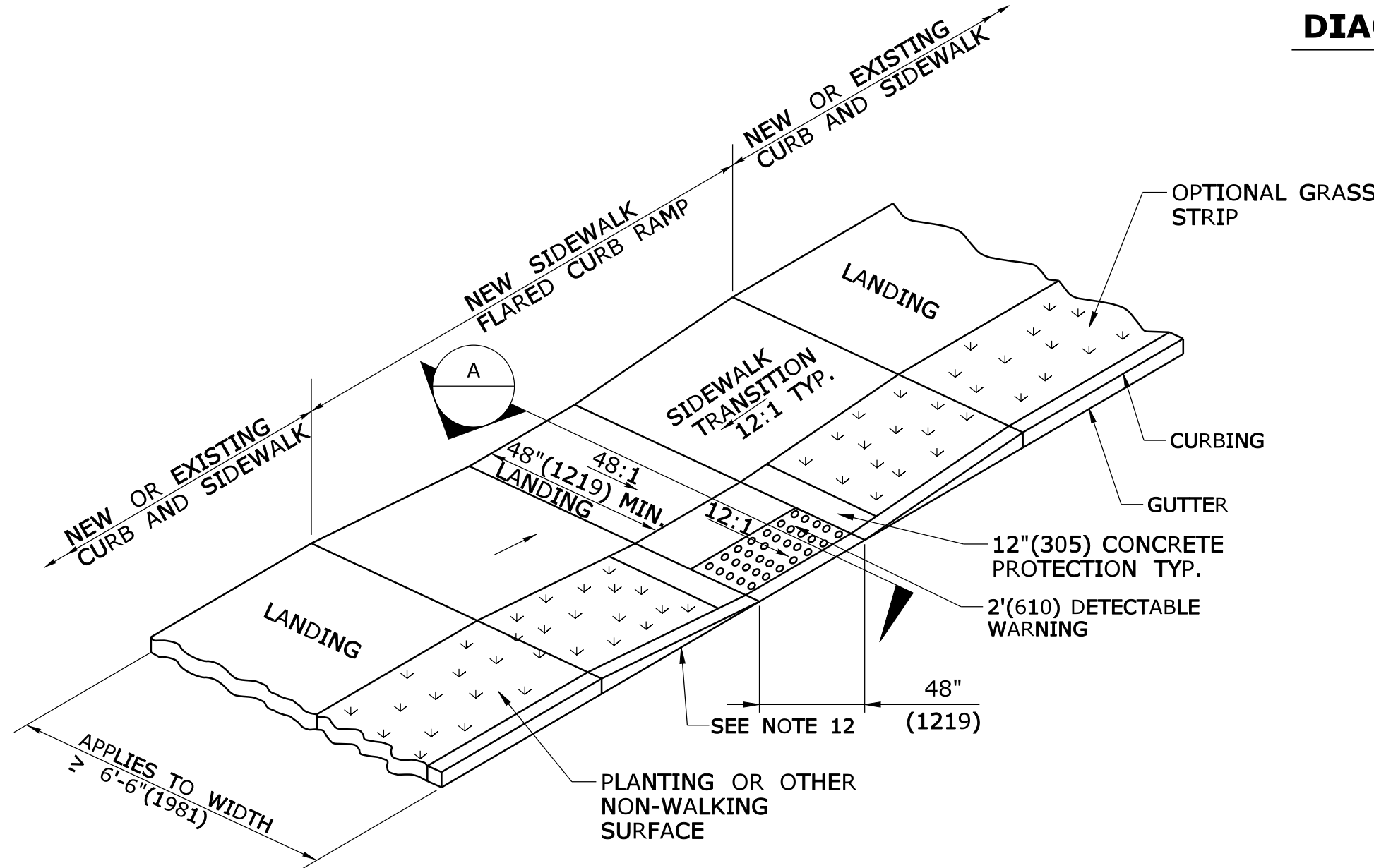


**PARALLEL SIDEWALK RAMP (TYPE 1)**

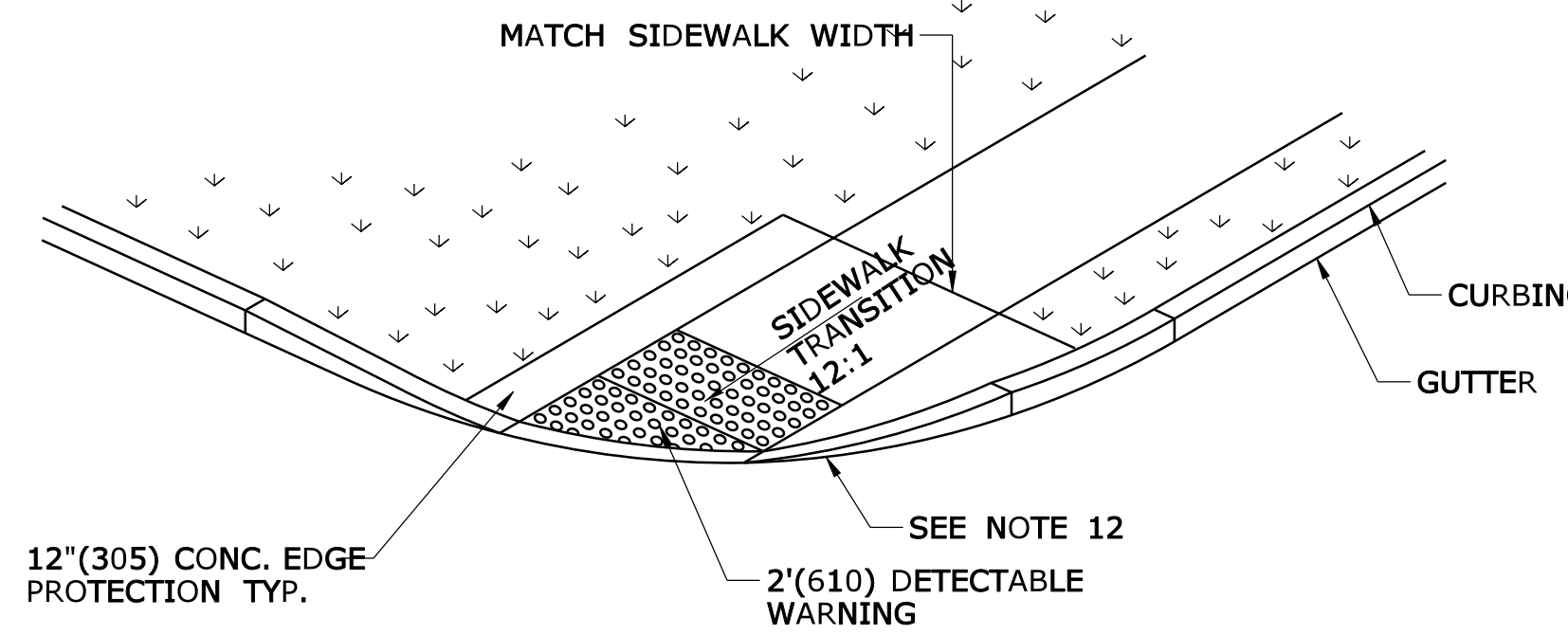


**DIAGONAL SIDEWALK RAMP (TYPE 4a)**

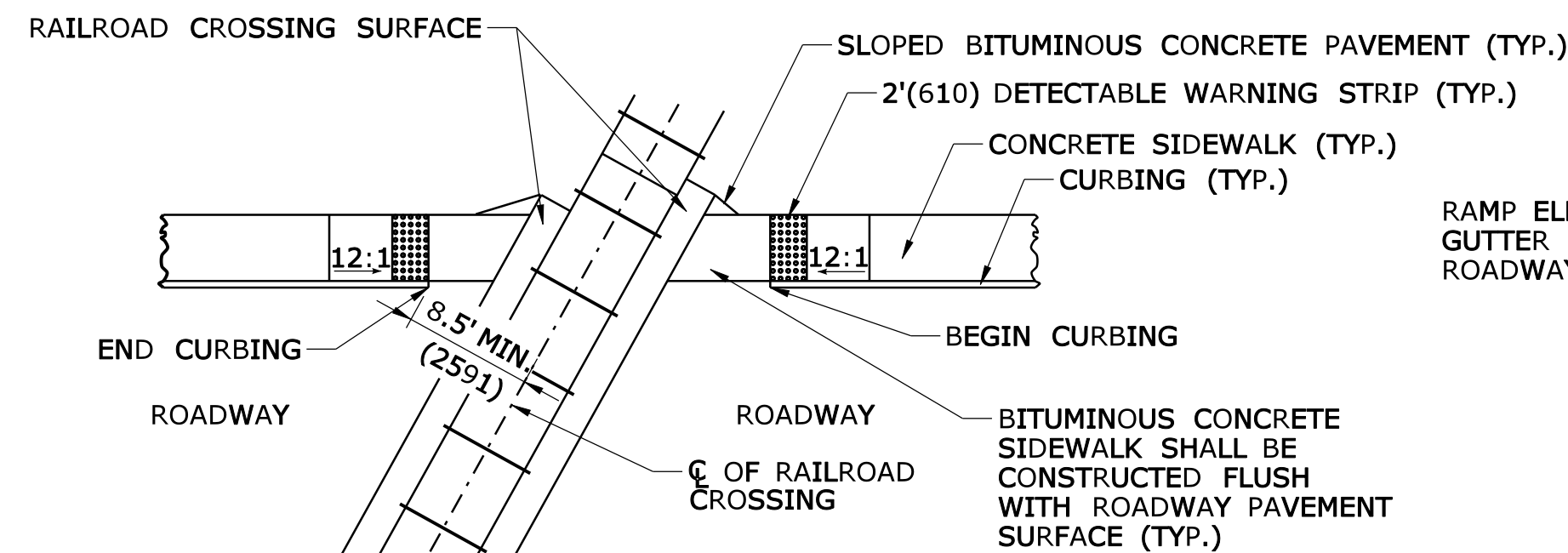
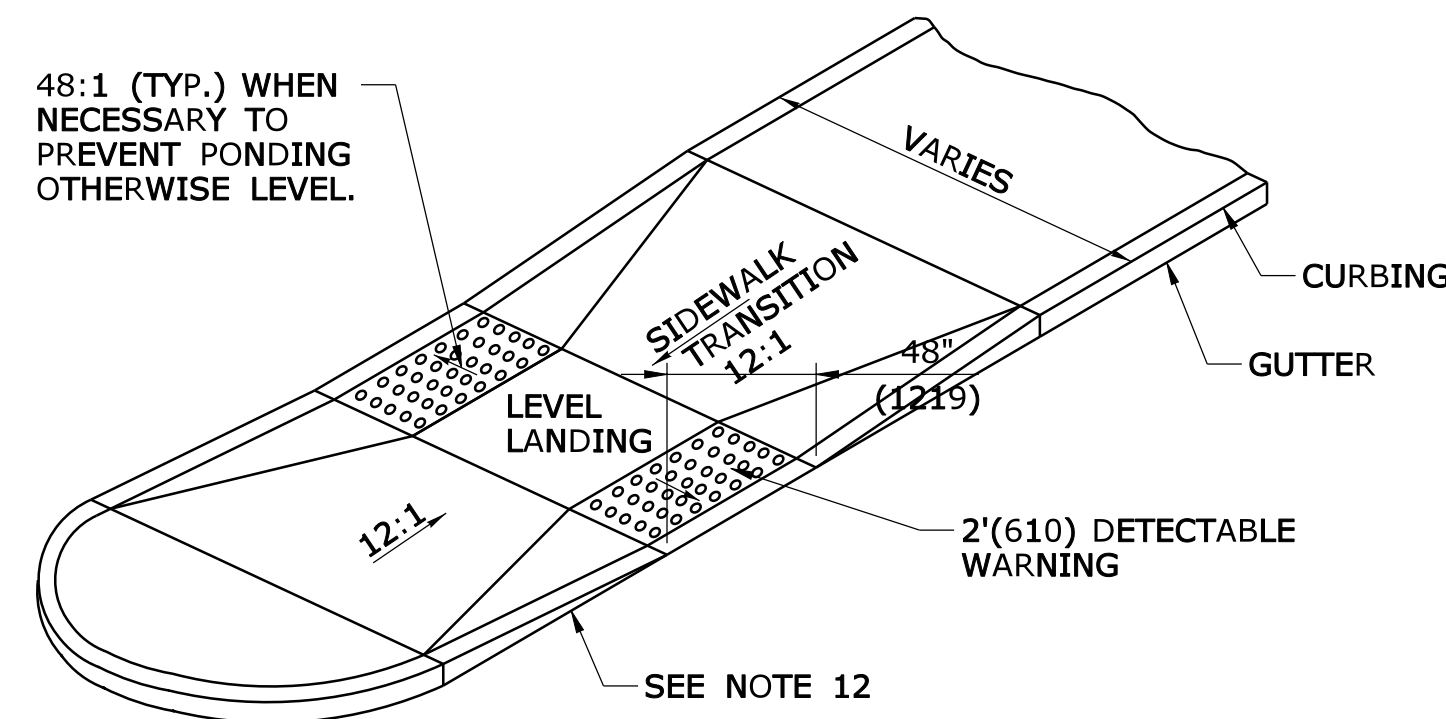
**DIAGONAL/PARALLEL SIDEWALK RAMP (TYPE 4b)**



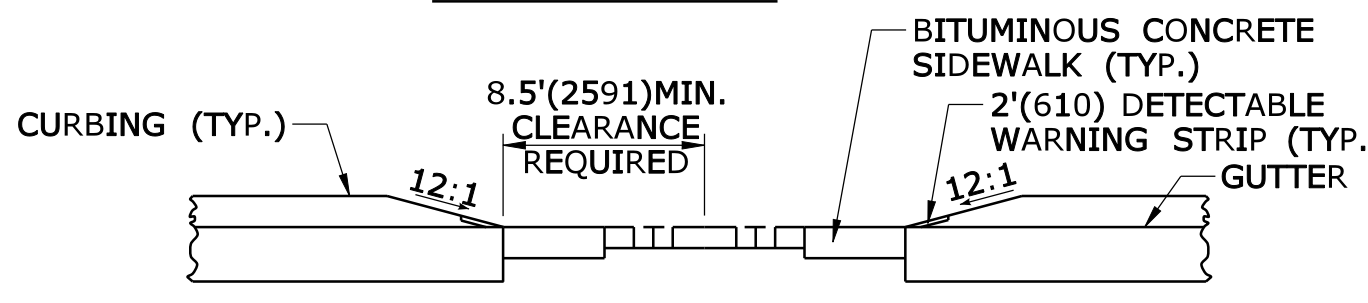
**PERPENDICULAR SIDEWALK RAMP (TYPE 2)**



**DIAGONAL SIDEWALK RAMP (TYPE 4c)**

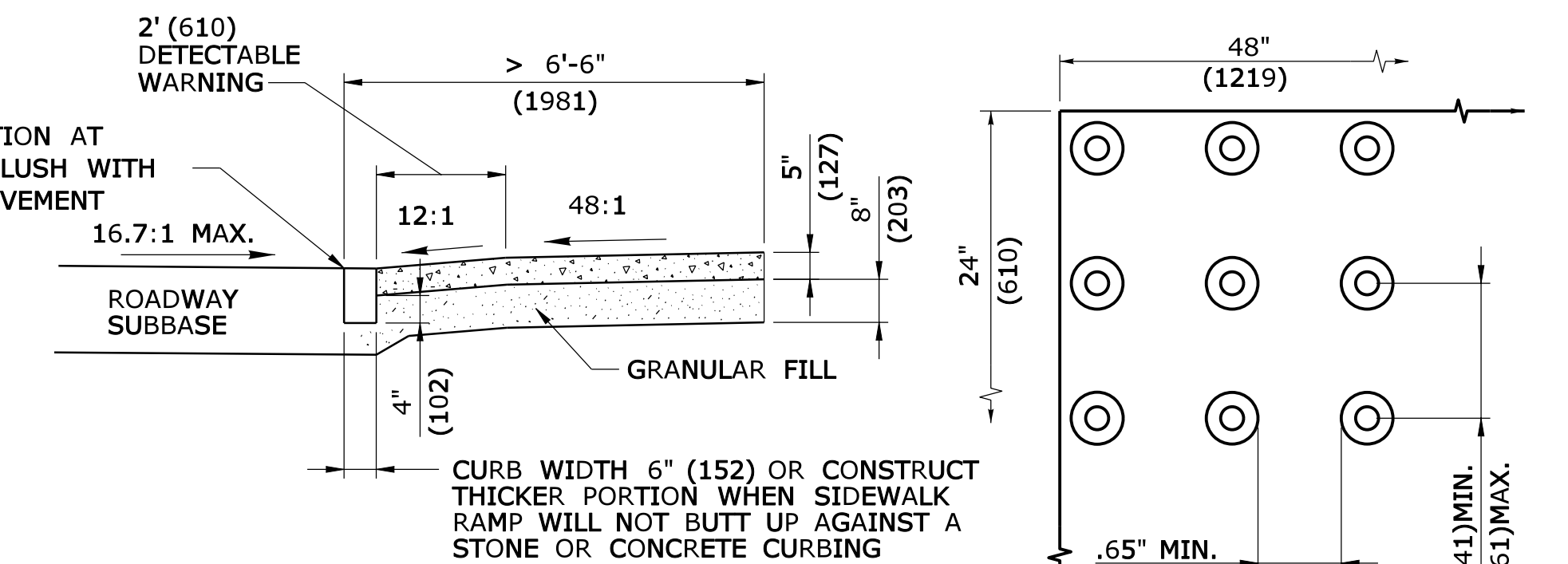


**PLAN VIEW**



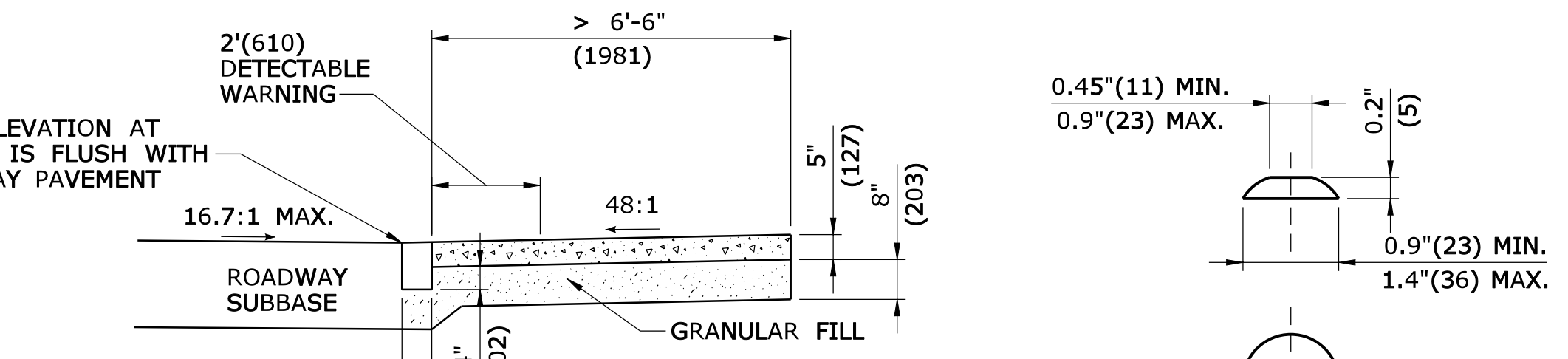
**ELEVATION VIEW**

**DETECTABLE WARNINGS AT RAILROAD CROSSING**



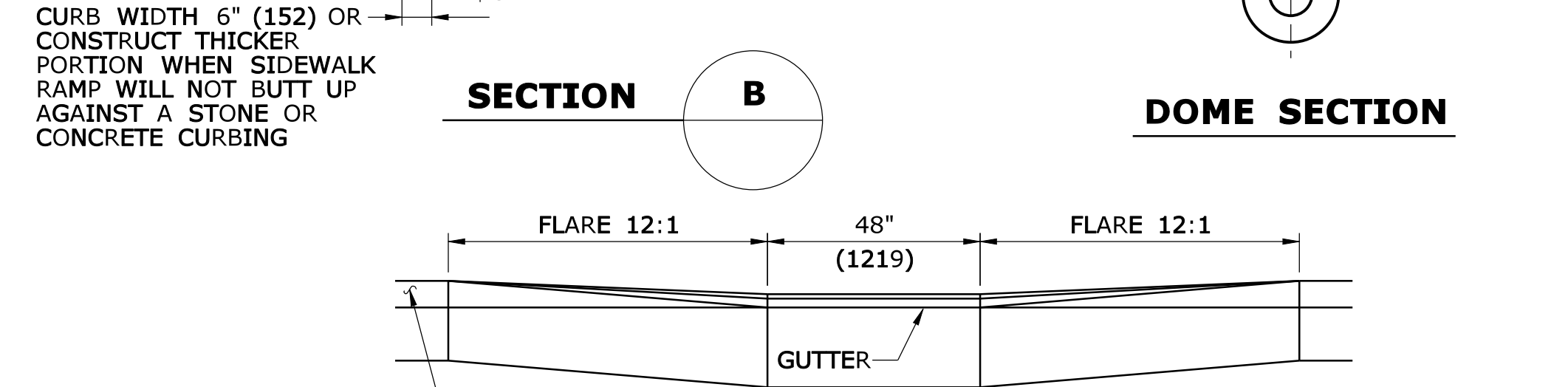
**SECTION A**

**DOMES SPACING**



**SECTION B**

**DOMES SECTION**



**SECTION C**

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

**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 RAMP SHALL BE CONSTRUCTED OF CLASS "C" CONCRETE IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS ARTICLE M.03.01.
- \*4. SIDEWALK RAMP 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 RAMP 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 RAMP AT BOTH SIDES AND A LEVEL AREA AT LEAST 4' (1219) LONG BETWEEN THE RAMP. 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 RAMP 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 RAMP 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.

REV.	DATE	REVISION DESCRIPTION
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NOT TO SCALE

Plotted Date: 9/11/2009

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

File name: CTDOT\_HIGHWAY\_STD.dgn Model: HW-921\_02

SUBMITTED BY:	NAME/DATE/TIME:
APPROVED BY:	NAME/DATE/TIME:

CTDOT  
STANDARD SHEET  
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:  
**SIDEWALK RAMPS**

STANDARD SHEET NO.:  
**HW-921\_02**