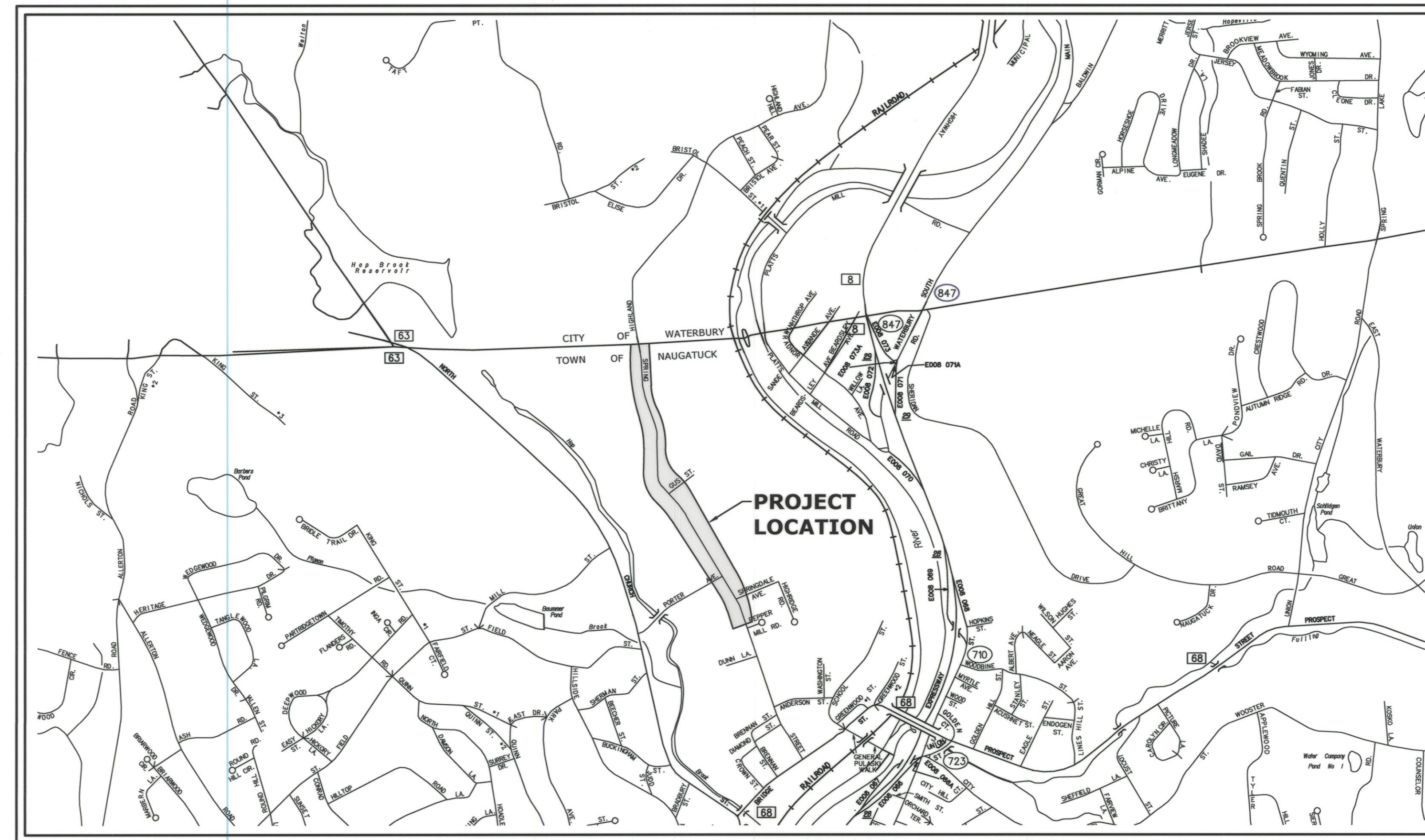


SPRING STREET PAVEMENT REHABILITATION

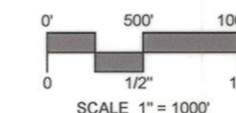
NAUGATUCK, CONNECTICUT

LOTICIP PROJECT NO. L087-0001
TO BE MAINTAINED BY THE BOROUGH OF NAUGATUCK
MMI PROJECT NO. 2129-32

CONSTRUCTION DOCUMENTS
APRIL 18, 2017



PROJECT SITE VICINITY MAP:



PREPARED BY:



99 Realty Drive
Cheshire, Connecticut 06410
(203) 271-1773 Fax (203) 272-9733
www.miloneandmacbroom.com

PREPARED FOR:



BOROUGH OF NAUGATUCK
229 CHURCH STREET
NAUGATUCK, CT 06770

SPRING STREET

ROADWAY CLASSIFICATION: URBAN MINOR ARTERIAL
PROJECT LENGTH: 3660± LF
BEGIN STATION: 13+65±
ENDING STATION: 50+25±

DESIGNED BY:

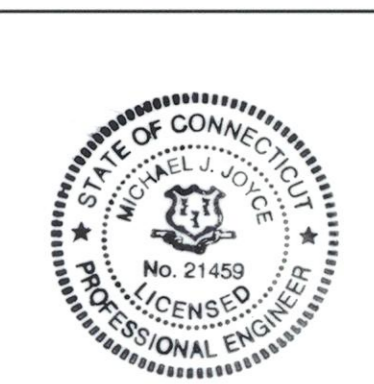


99 Realty Drive
Cheshire, Connecticut 06410
(203) 271-1773 Fax (203) 272-9733
miloneandmacbroom.com

Michael Joyce

MICHAEL JOYCE, P.E.
CONN. PROFESSIONAL REG. NO. 21459

DATE: 4/18/17

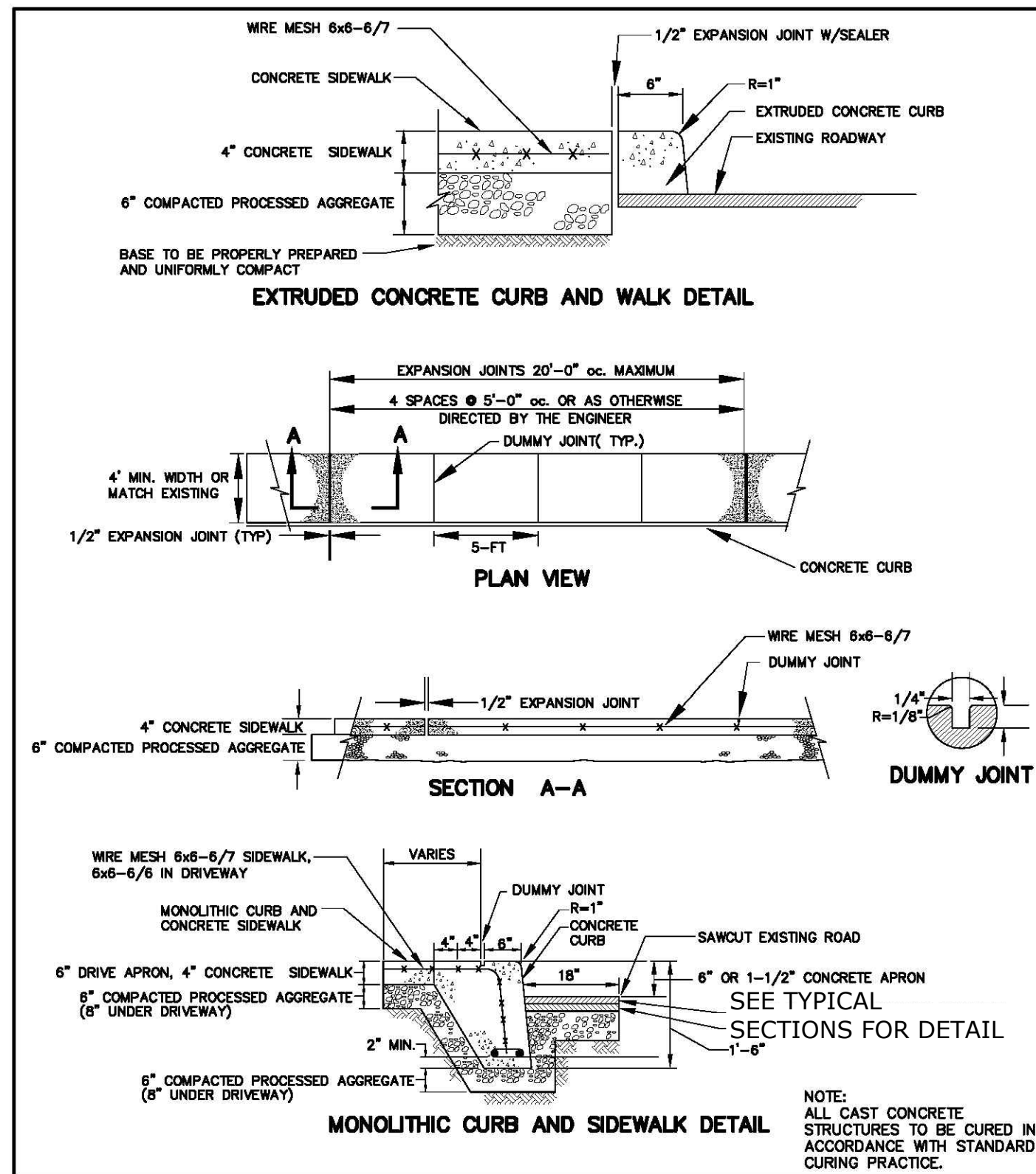


LIST OF DRAWINGS

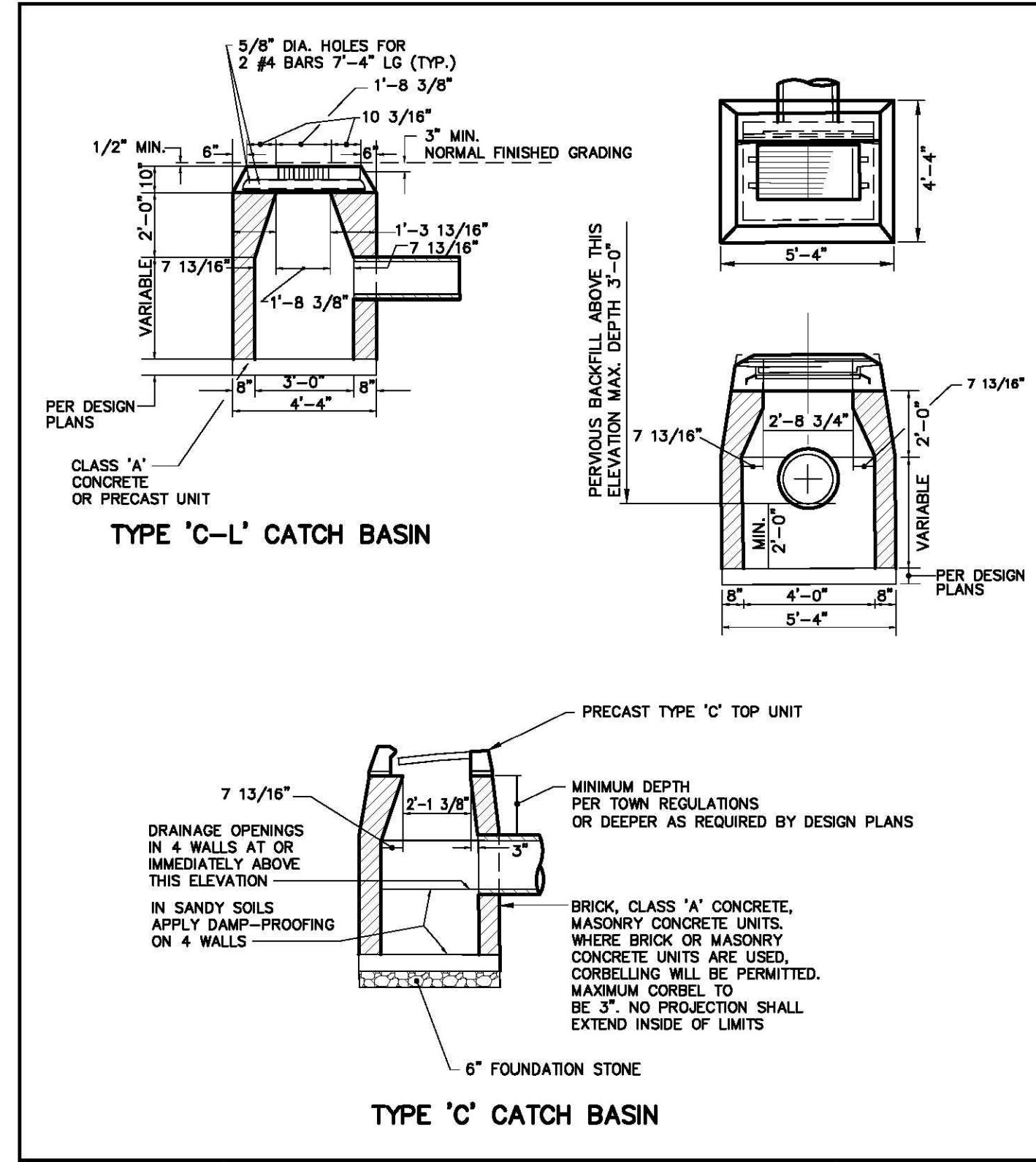
NO.	NAME	TITLE
01	--	TITLESHEET
02	IN	GENERAL NOTES AND INDEX PLAN
03	MDS-1	MISCELLANEOUS DETAILS
04	TYP	TYPICAL SECTIONS
05-08	PLN-01 TO PLN-04	ROADWAY PLANS
		CTDOT HIGHWAY STANDARD DRAWINGS
		CTDOT TRAFFIC STANDARD DRAWINGS



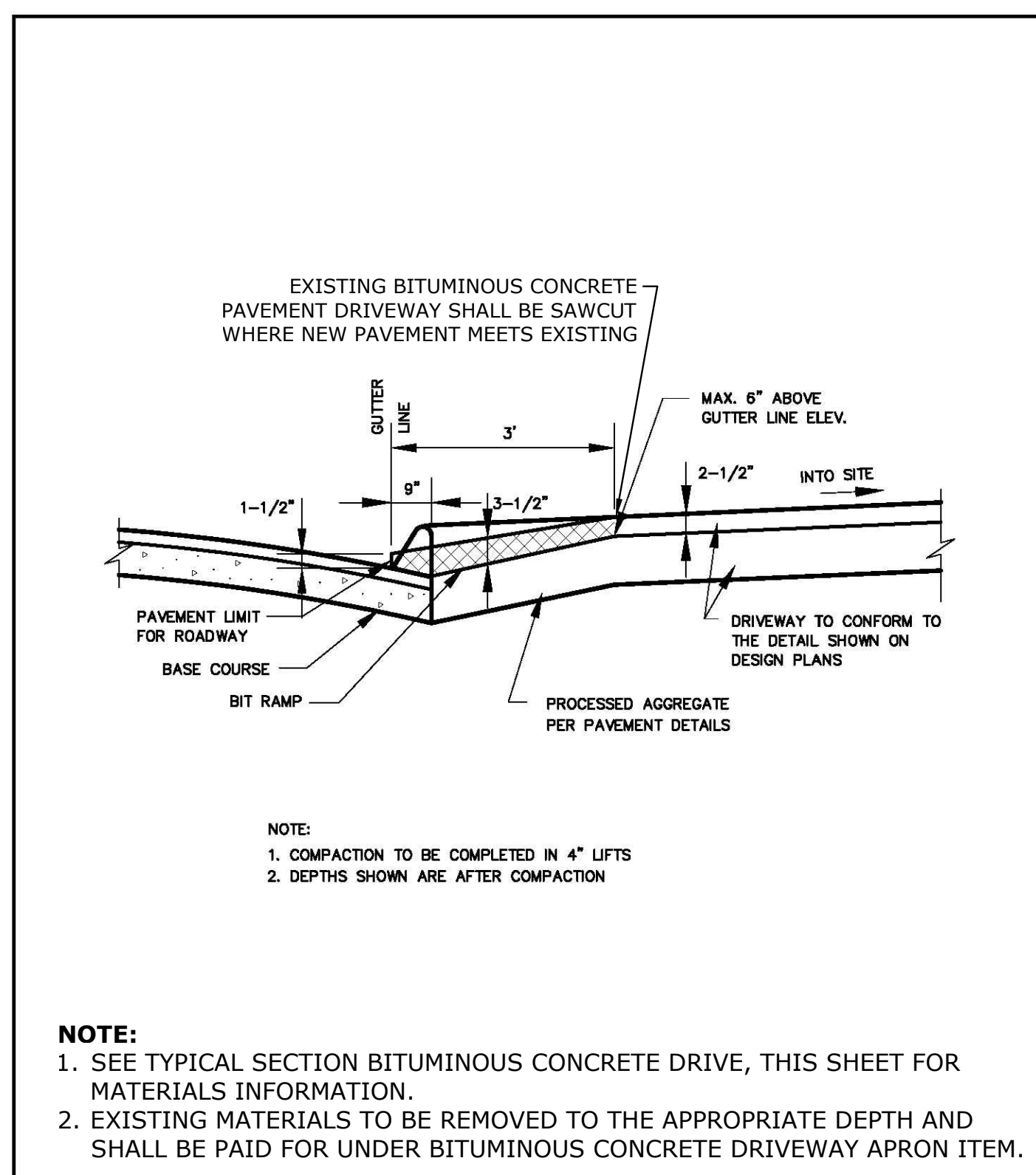
Know what's below.
Call before you dig.
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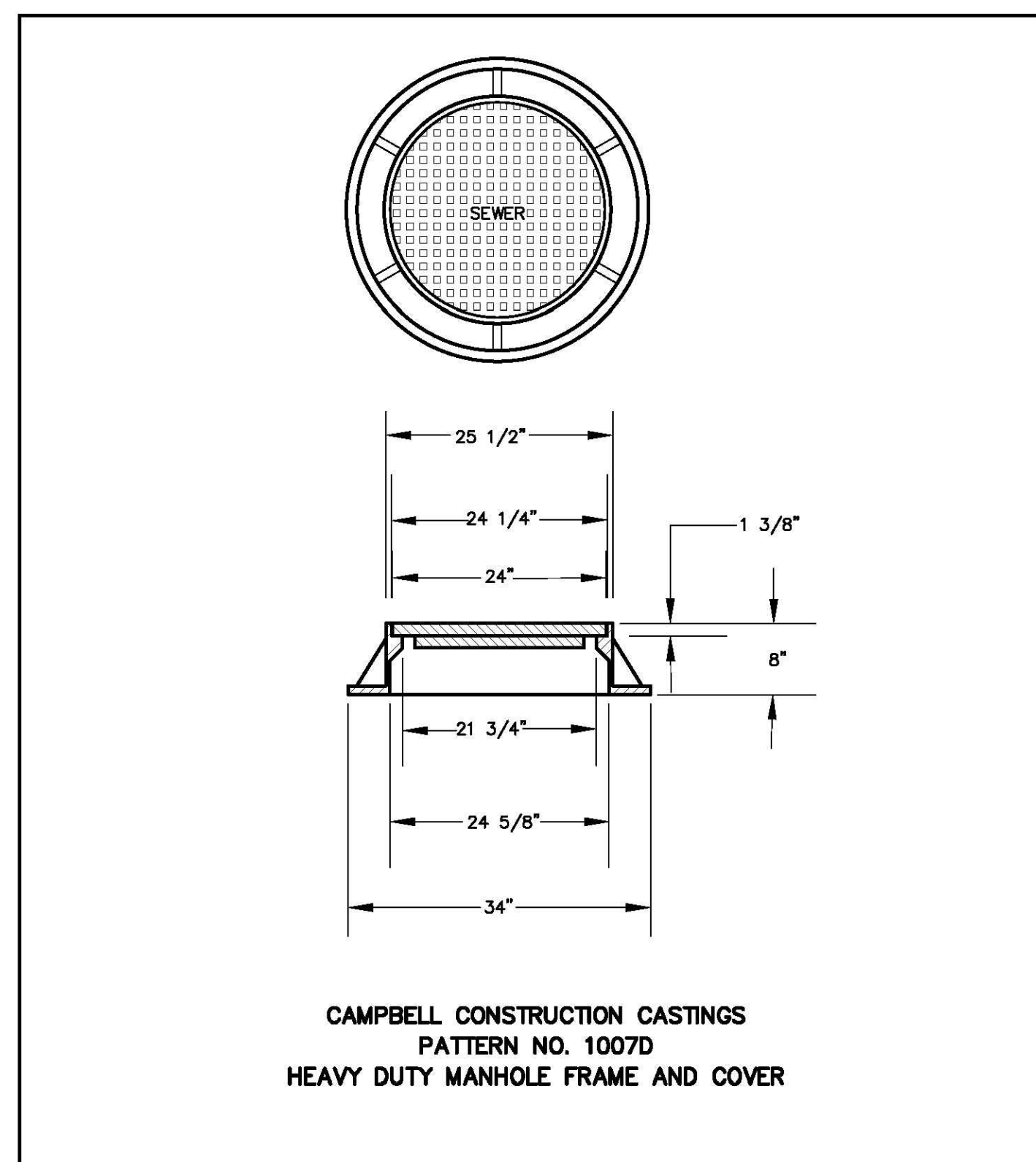
	COMBINED CONCRETE SIDEWALK DETAILS	Scale: NTS
	BOROUGH OF NAUGATUCK ENGINEERING DEPARTMENT STANDARD DETAIL	Drawing No. SD-48 Date: 10/2011
229 Church Street, Naugatuck, CT 06770 www.naugatuck-ct.gov		



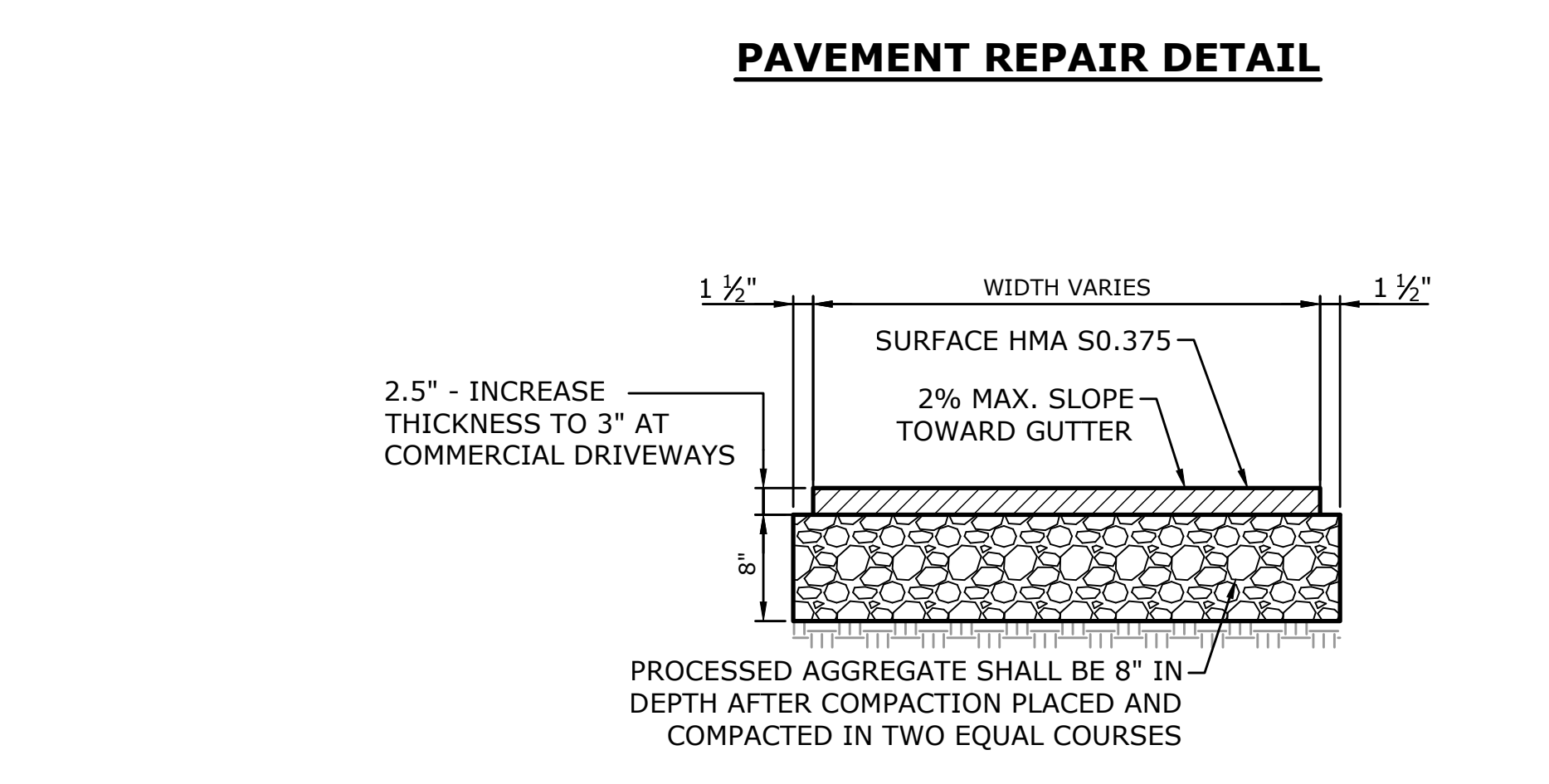
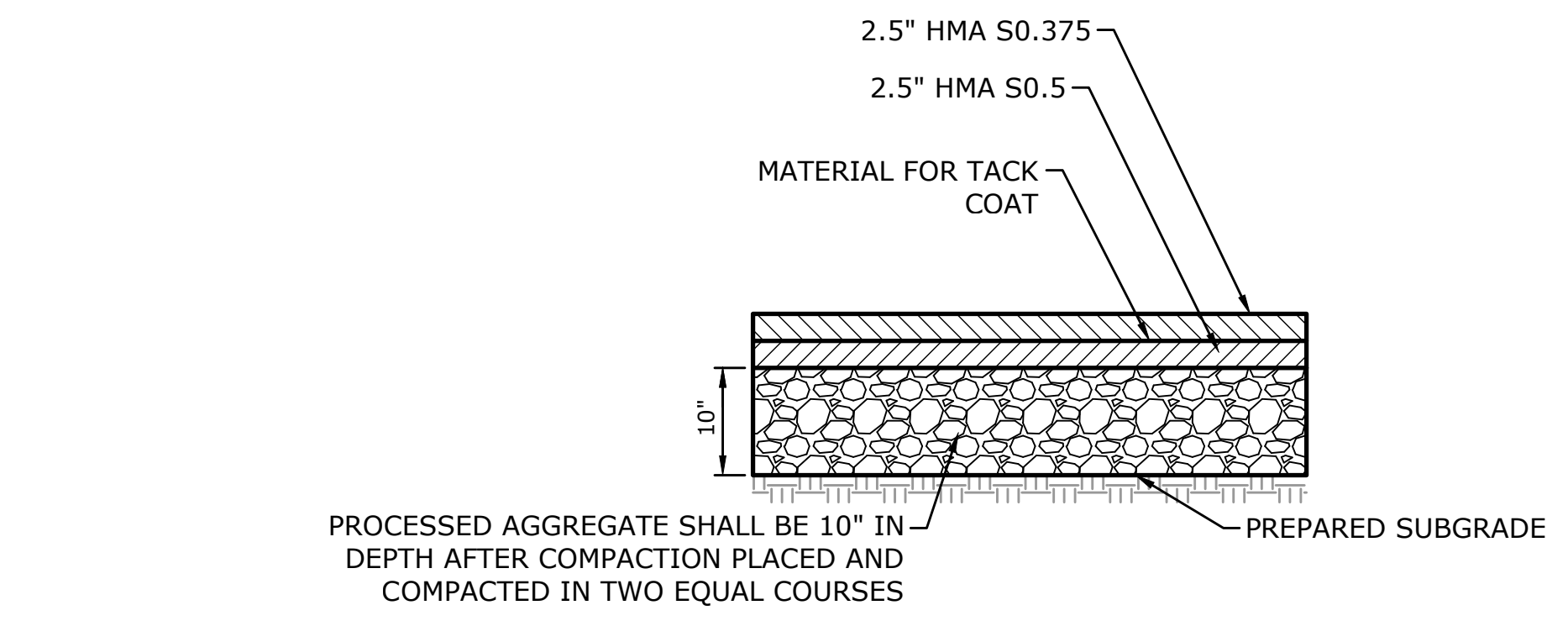
	CATCH BASIN (ConnDOT)	Scale: NTS
	BOROUGH OF NAUGATUCK ENGINEERING DEPARTMENT STANDARD DETAIL	Drawing No. SD-19 Date: 10/2011
229 Church Street, Naugatuck, CT 06770 www.naugatuck-ct.gov		



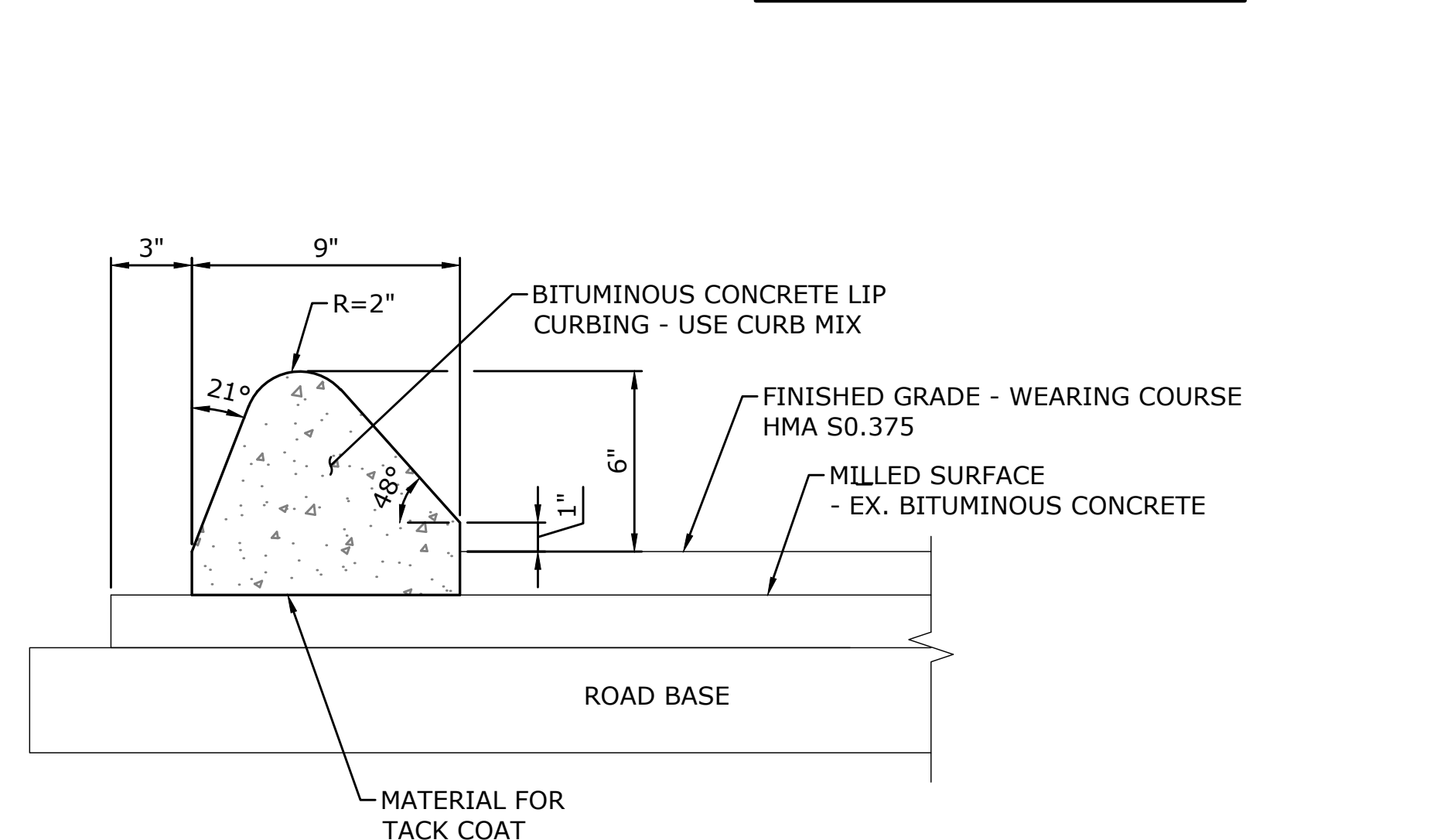
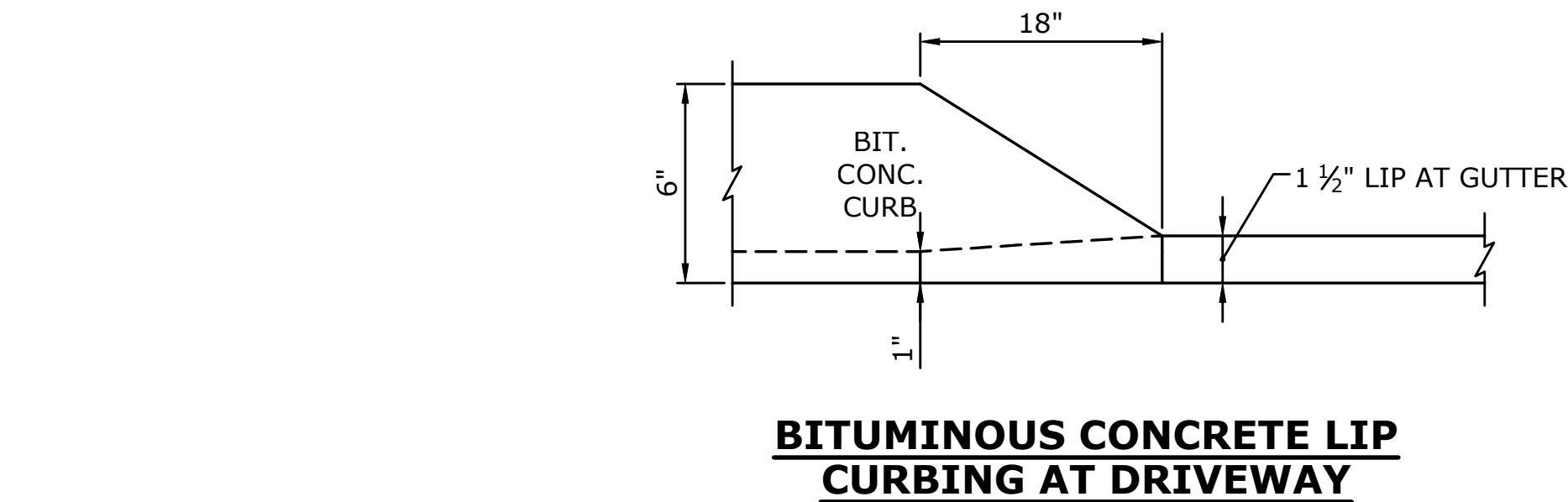
	BITUMINOUS CONCRETE DRIVEWAY APRON	Scale: NTS
	BOROUGH OF NAUGATUCK ENGINEERING DEPARTMENT STANDARD DETAIL	Drawing No. SD-24 Date: 10/2011
229 Church Street, Naugatuck, CT 06770 www.naugatuck-ct.gov		



	HEAVY DUTY MANHOLE FRAME AND COVER	Scale: NTS
	BOROUGH OF NAUGATUCK ENGINEERING DEPARTMENT STANDARD DETAIL	Drawing No. SD-8 Date: 10/2011
229 Church Street, Naugatuck, CT 06770 www.naugatuck-ct.gov		



	BITUMINOUS CONCRETE SIDEWALK AND DRIVEWAY	Scale: NTS
	BOROUGH OF NAUGATUCK ENGINEERING DEPARTMENT STANDARD DETAIL	Drawing No. SD-19 Date: 10/2011
229 Church Street, Naugatuck, CT 06770 www.naugatuck-ct.gov		



	BITUMINOUS CONCRETE LIP CURBING	Scale: NTS
	BOROUGH OF NAUGATUCK ENGINEERING DEPARTMENT STANDARD DETAIL	Drawing No. SD-8 Date: 10/2011
229 Church Street, Naugatuck, CT 06770 www.naugatuck-ct.gov		

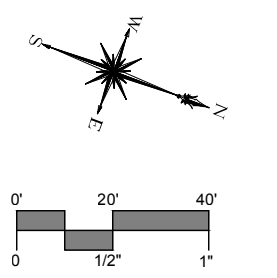
99 Realty Drive Cheshire, Connecticut 06410 (203) 271-1773 Fax (203) 272-9733 www.miloneandmacbroom.com	
DESCRIPTION	
DATE	
BY	

MISCELLANEOUS DETAILS	SPRING STREET PAVEMENT REHABILITATION LOTCIP PROJECT NO. L087-0001 SPRING STREET NAUGATUCK, CONNECTICUT	
DP	CJR	MJJ
DESIGNED	DRAWN	CHECKED
SCALE		
NOT TO SCALE		
DATE		
MARCH 2017		
PROJECT NO.		
2129-32		
DRAWING NO.		
MDS-1		

10/2013 - 4.000 L002 Van Ave Sta 28+50 - 40+50
 10/2013 - 4.000 L002 Van Ave Sta 28+50 - 40+50
 10/2013 - 4.000 L002 Van Ave Sta 28+50 - 40+50

ALGONQUIN GAS TRANSMISSION UTILITY NOTES

- ANY VEHICULAR/EQUIPMENT CROSSING OF ALGONQUIN FACILITIES SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE AREA MANAGER. TEMPORARY PROTECTION OF THE FACILITY MAY BE REQUIRED.
- HORIZONTAL LOCATION OF ALGONQUIN FACILITIES DETERMINED BY GROUND FIELD OBSERVATIONS ON 5/25/2016 BY MILONE & MACBROOM, INC.
- VERTICAL LOCATION OF ALGONQUIN FACILITIES AT VEHICULAR/UTILITY CROSSING(S) HAVE NOT BEEN SURVEYED AND SHOULD BE DETERMINED IN THE FIELD WITH THE UTILITY AREA MANAGER PRIOR TO CONSTRUCTION TO AVOID ANY IMPACTS TO THE BURIED UTILITY.
- NO ACTIVITY WHATSOEVER MAY BE PERFORMED ON ALGONQUIN RIGHT-OF-WAY, OR NEAR ALGONQUIN FACILITIES, WITHOUT A ALGONQUIN INSPECTOR ON THE SITE. ALGONQUIN INSPECTORS MAY BE ARRANGED FOR BY CONTACTING BRADLEY FRANZESE AREA MANAGER, (860-894-1600) AT LEAST 72 HOURS IN ADVANCE OF THE WORK.
- APPROVAL BY THE COMPANY OF THE PROPOSED DESIGN DRAWINGS DOES NOT RELIEVE THE LANDOWNER/DEVELOPER FROM FURTHER COMPLIANCE WITH ANY AND ALL COMPANY SPECIFICATIONS, NOR DOES IT IMPLY AFFIRMATION BY THE COMPANY OF THE ACCURACY OF SUBMITTED DRAWINGS. THE COMPANY RESERVES THE RIGHT TO SET FORTH ADDITIONAL REQUIREMENTS IF DEEMED NECESSARY.
- COMPANY APPROVAL SHALL BECOME NULL AND VOID IN THE EVENT THAT A PERIOD OF ONE YEAR FROM THE INITIAL APPROVAL DATE HAS ELAPSED WITH NO SUBSTANTIAL CONSTRUCTION ACTIVITY HAVING TAKEN PLACE. THIS CIRCUMSTANCE SHALL REQUIRE DEVELOPMENT PLANS BE RESUBMITTED TO THE COMPANY FOR REVIEW.



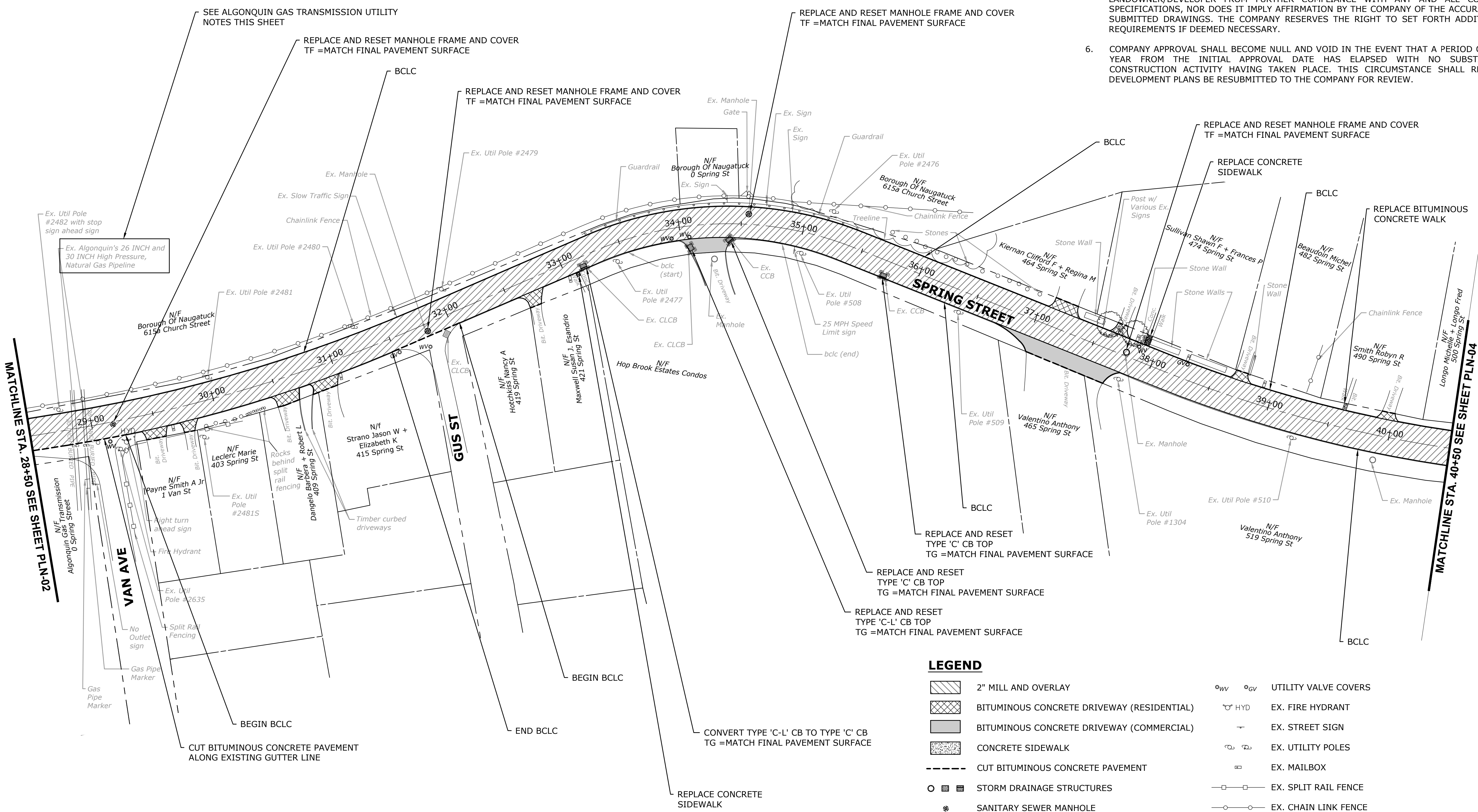
MILONE & MACBROOM
 99 Realty Drive
 Cheshire, Connecticut 06410
 (203) 271-1773 Fax (203) 272-9733
 www.miloneandmacbroom.com

DATE	BY

DESCRIPTION

ROADWAY PLANS
SPRING STREET PAVEMENT REHABILITATION
LOT/CIP PROJECT NO. L087-0001
 NAUGATUCK, CONNECTICUT

DP	CJR	MJJ
DESIGNED	DRAWN	CHECKED
SCALE		
1"=40'		
DATE		
MARCH 2017		
PROJECT NO.		
2129-32		
DRAWING NO.		
PLN-03		
SHEET NO.		
07		



- NOTES:**
- THE BASELINE DEPICTED ON THESE PLANS IS FOR REFERENCE PURPOSES ONLY. THE BASELINE IS NOT INDICATIVE OF THE EXISTING OR PROPOSED CENTERLINE GEOMETRY.
 - ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH NOTES 1 AND 2 ON TYPICAL SECTIONS, SHEET 04.

*ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #

**REVISED OR ADDED

✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-506_01	ENDWALLS, SLOPE PAVED INLETS AND OUTLETS	1-26-12
	HW-506_02	TYPE "D-G" & "L" ENDWALLS	7-13-12
	HW-506_03	TENDWALS FOR PIPE ARCH	9-18-09
	HW-507_01	TYPE "C", "C-L" & DROP INLET CATCH BASIN	7-24-13
	HW-507_02	TYPE "C", "C-L" & DOUBLE GRATE TYPE - I	7-24-13
	HW-507_03	TYPE "C", "C-L" & DOUBLE GRATE TYPE - II	7-24-13
	HW-507_04	TYPE "C", "C-L" & ROUND PRECAST CONCRETE CB	11-10-11
	HW-507_05	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - I	11-10-11
	HW-507_06	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - II	11-10-11
	HW-507_07	TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS	11-10-11
	HW-507_08	CATCH BASIN FRAMES AND GRATES	9-18-09
	HW-507_09	HEAVY DUTY LOCK DOWN TOPS	7-12-12
	HW-507_10	MANHOLE - FRAME & COVER	7-24-13
	HW-651_01	C.C.M. PIPE INSTALLATIONS IN FILL & ROCK SLOPES & PIPE TRENCH DETAIL	7-24-13
	HW-651_02	SLOTTED DRAIN PIPE 12"- 15"-18"-24"-30" (305-381-457-610-762)	7-12-12
	HW-652_01	PIPE ENDS	7-24-13
	HW-751_01	UNDERDRAINS AND UNDERDRAIN OUTLETS	7-12-12
	HW-803_01a	PAVED APRONS	6-07-17
	HW-803_01b	PAVED DITCHES AND PAVED CHANNELS	6-07-17
	HW-811_01	CONCRETE CURBING	6-07-17
	HW-813_01	GRANITE STONE TRANSITION CURBING	7-24-13
	HW-813_02	STONE CURBING	6-07-17
	HW-815_01	BITUMINOUS CONCRETE CURBING	6-07-17
	HW-821_01a	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12
	HW-821_01b	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
	HW-821_01c	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	1-26-12
	HW-821_02a	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 1	7-24-13
	HW-821_02b	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2	7-24-13
	HW-821_03a	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12
	HW-821_03b	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
	HW-821_03c	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	10-18-10
	HW-821_03d	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	10-18-10
	HW-821_03e	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) F-SHAPE	7-24-13

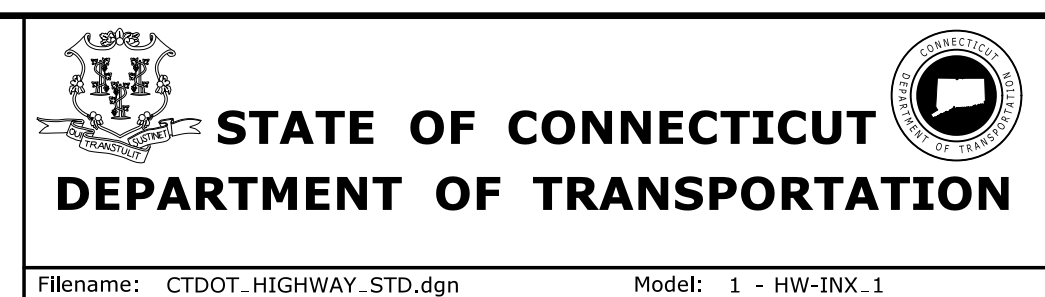
✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-821_04a	MERRITT PARKWAY NARROW MEDIAN BARRIER	6-09-11
	HW-821_04b	MERRITT PARKWAY - 2' (610) WIDE MEDIAN BARRIER AND ROADSIDE BARRIER	7-24-13
	HW-821_05a	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 1	1-26-12
	HW-821_05b	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 2	1-26-12
	HW-821_06	54" (1372) VERTICAL SHAPE BARRIER	2-06-12
	HW-821_07	MISCELLANOUS DETAILS FOR BARRIER TRANSITIONS	7-12-12
	HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB	7-24-13
	HW-905_01	STONE WALL, FARM WALL AND WIRE FENCES	6-07-17
	HW-910_01	W-BEAM METAL BEAM RAIL HARDWARE	6-09-11
	HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL	6-09-11
	HW-910_03	METAL BEAM RAIL (TYPE MD-B 350)	6-09-11
	HW-910_04	METAL BEAM RAIL (TYPE R-B 350) SYSTEMS 5, 5A, & 6	6-09-11
	HW-910_05	METAL BEAM RAIL R-B 350 SPAN TYPE I, II, III SECTIONS	7-24-13
	HW-910_06	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	6-09-11
	HW-910_07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET	6-09-11
	HW-910_08	R-B 350 BRIDGE ATTACHMENT TRAILING END	6-09-11
	HW-910_09a	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 1	1-26-12
	HW-910_09b	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 2	7-25-12
	HW-910_10	METAL BEAM RAIL 8" (203) X 6" (152) BOX BEAM	7-24-13
	HW-910_11	CURVED GUIDERAIL TREATMENT DETAIL	7-25-12
	HW-910_12a	MERRITT PARKWAY GUIDERAIL ATTACHMENT - SYSTEM 2 & 3	7-24-13
	HW-910_12b	MERRITT PARKWAY GUIDERAIL	7-24-13
	HW-910_12c	MERRITT PARKWAY GUIDERAIL TRAILING END ATTACHMENTS	7-24-13
	HW-910_12d	MERRITT PARKWAY MEDIAN GUIDERAIL AND END ANCHOR	6-09-11
	HW-910_13a	THRIE-BEAM METAL BEAM RAIL HARDWARE	7-24-13
	HW-910_13b	THRIE-BEAM TRANSITIONS	7-24-13
	HW-910_14a	THRIE-BEAM 350 BRIDGE ATTACHMENT	6-09-11
	HW-910_14b	THRIE-BEAM 350 GUIDERAIL TRANSITION TO R-B 350 GUIDERAIL	6-09-11
	HW-910_15	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE I	6-09-11
	HW-910_16	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE II	6-09-11
	HW-910_17	R-B TERMINAL SECTION	7-24-13
	HW-910_18	METAL BEAM RAIL (TYPE MD-I)	10-18-10
	HW-910_19a	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE I	7-24-13

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: 6/8/2017

NOT TO SCALE

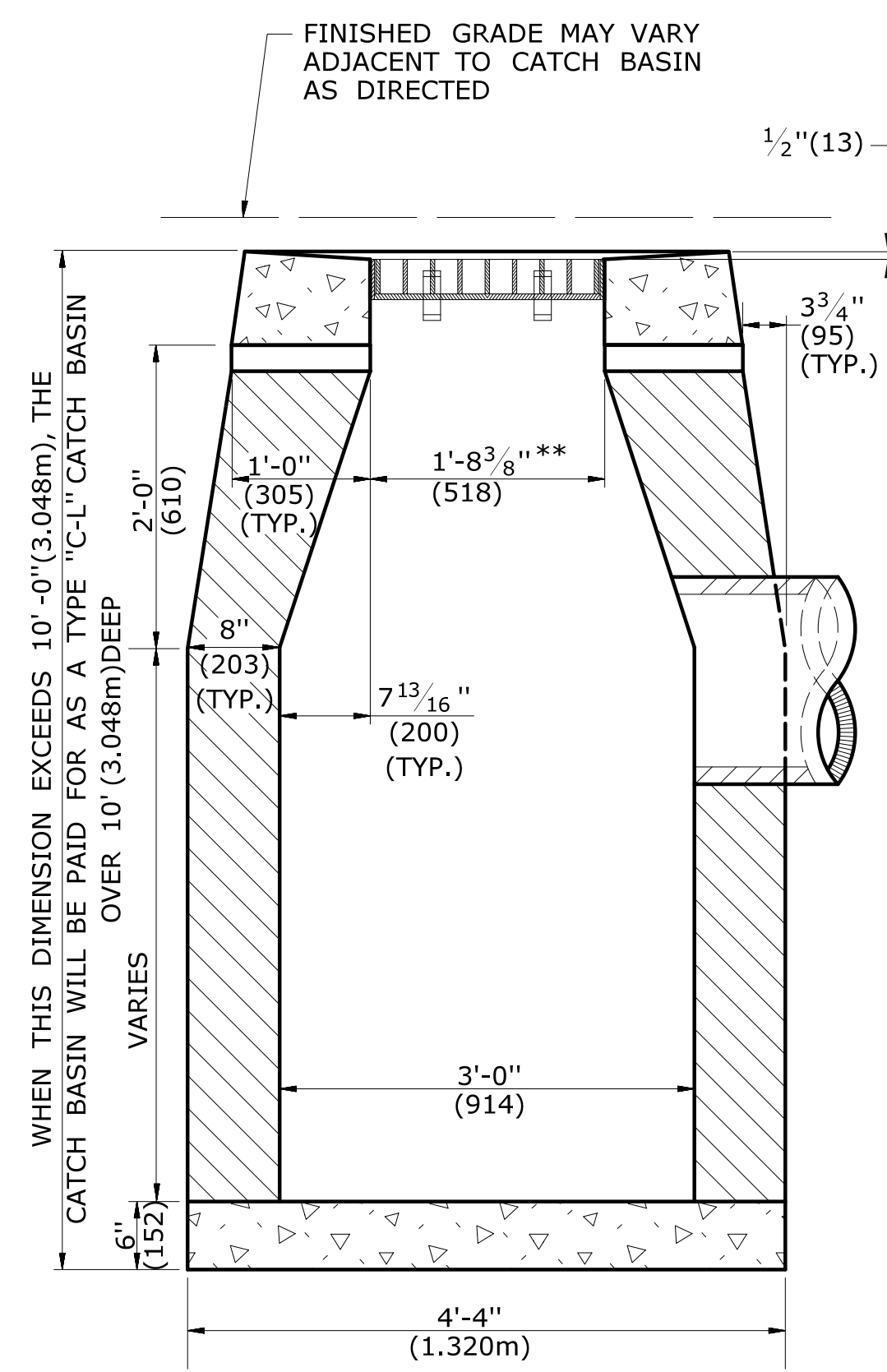


CTDOT
STANDARD SHEET

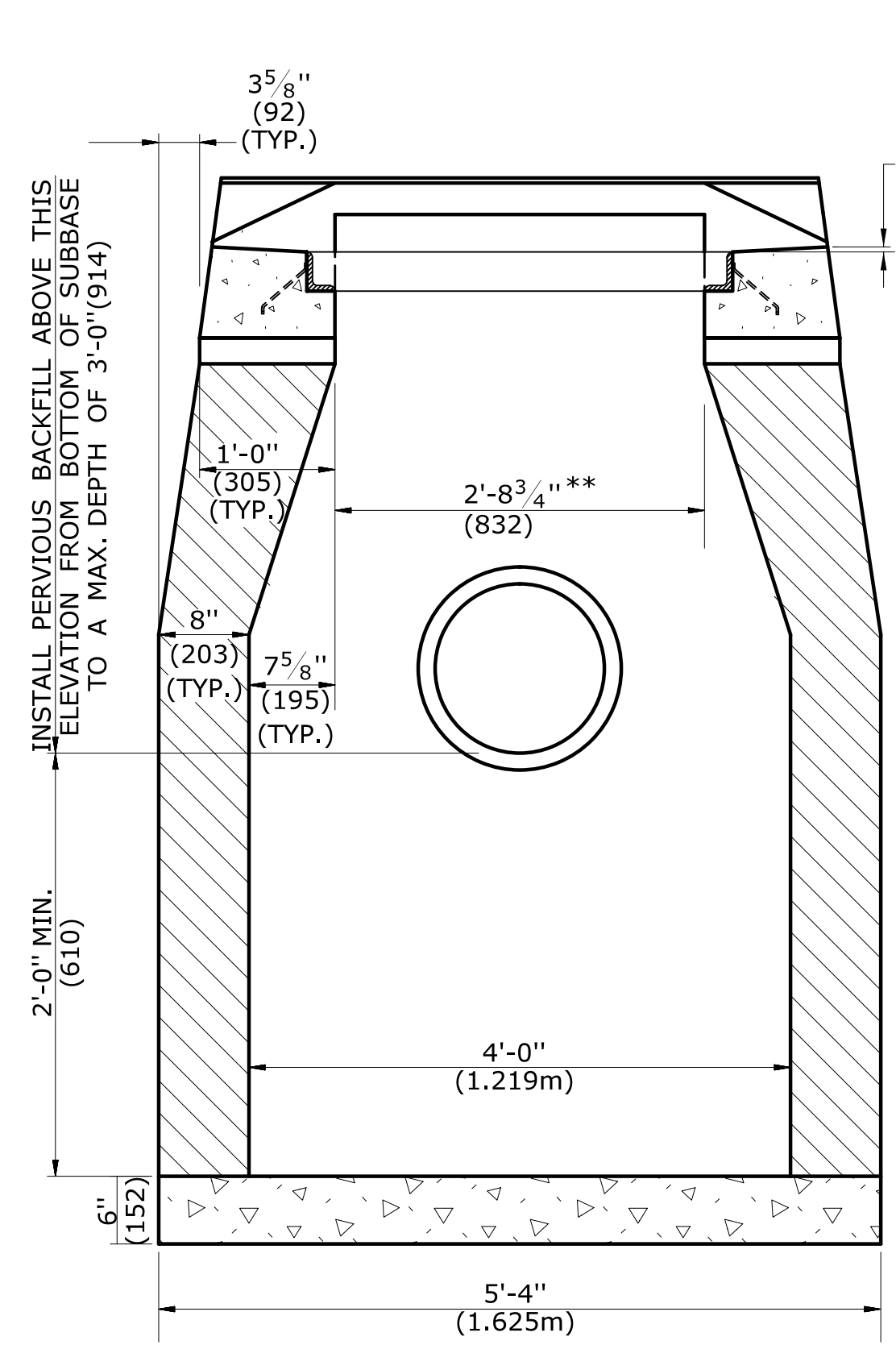
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
**HIGHWAY
STANDARD SHEET INDEX**

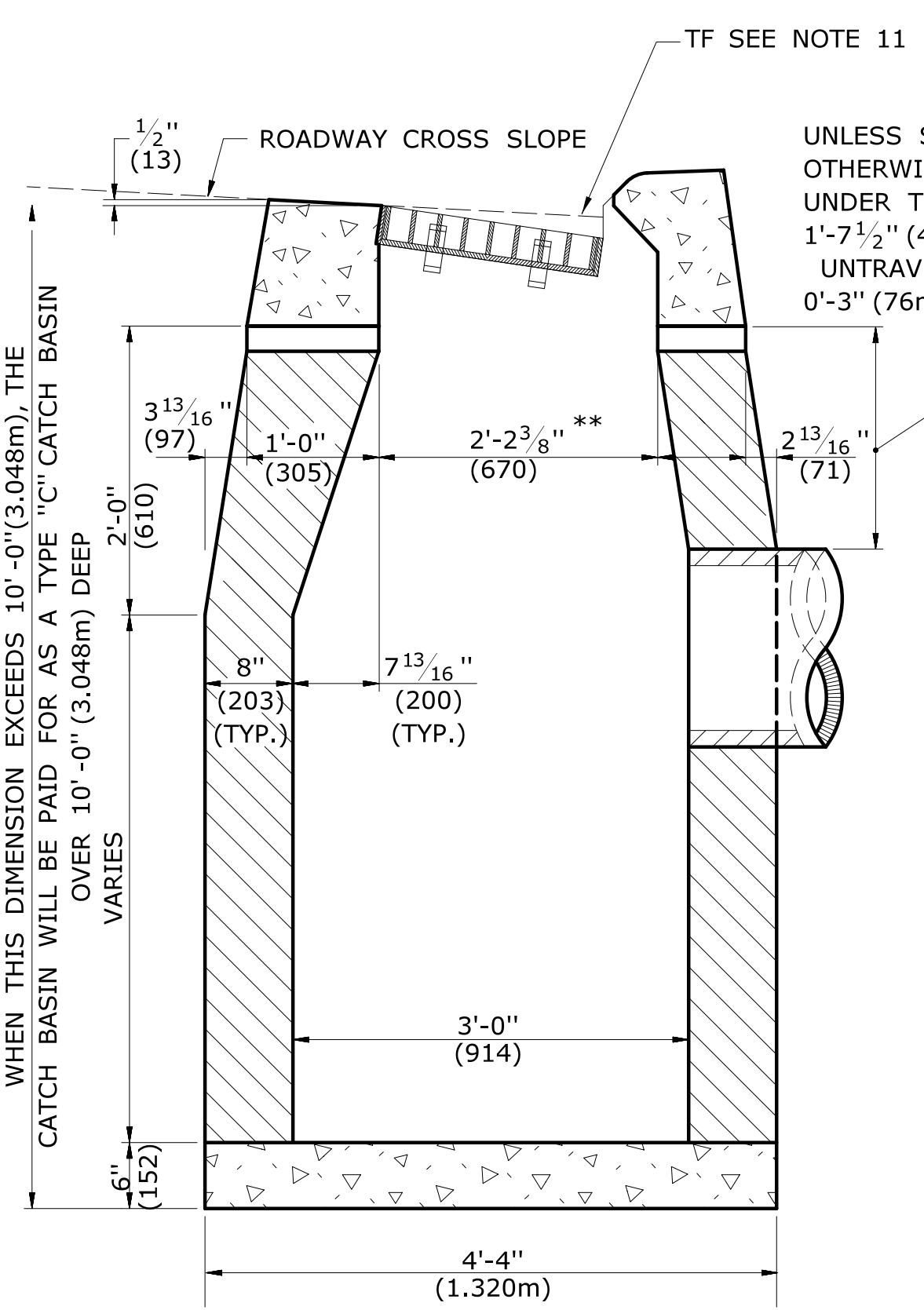
STANDARD SHEET NO.:
**HW_INX
1 of 2**



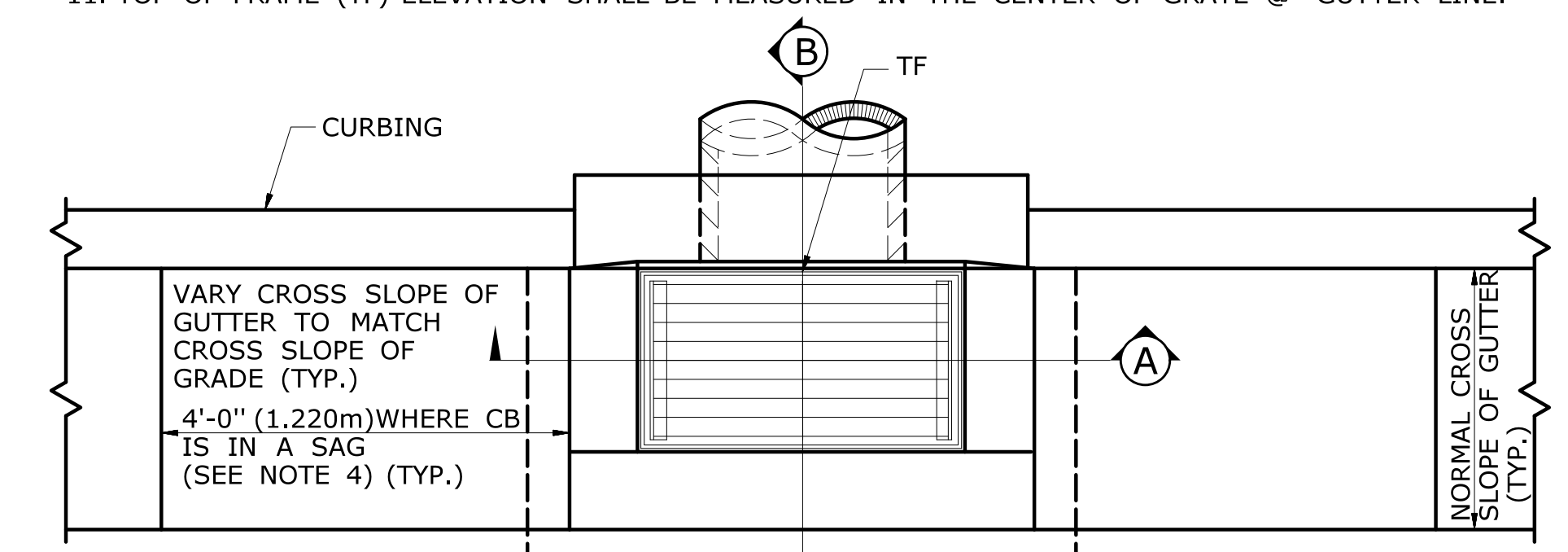
SECTION B
TYPE "C-L" CATCH BASIN



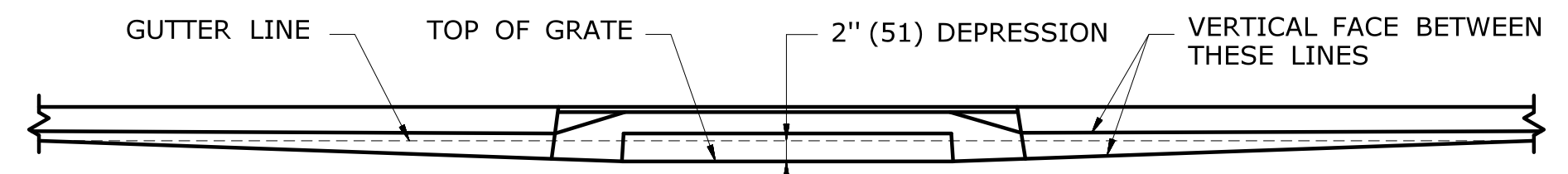
SECTION A
**TYPE "C" & "C-L" CATCH BASIN
(TYPE "C" TOP SHOWN)**



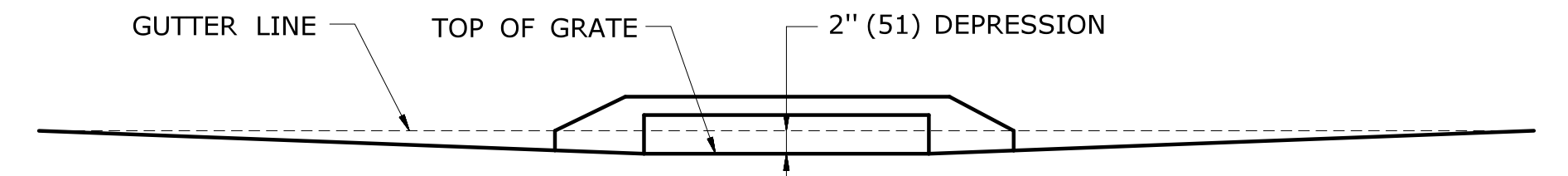
SECTION B
TYPE "C" CATCH BASIN



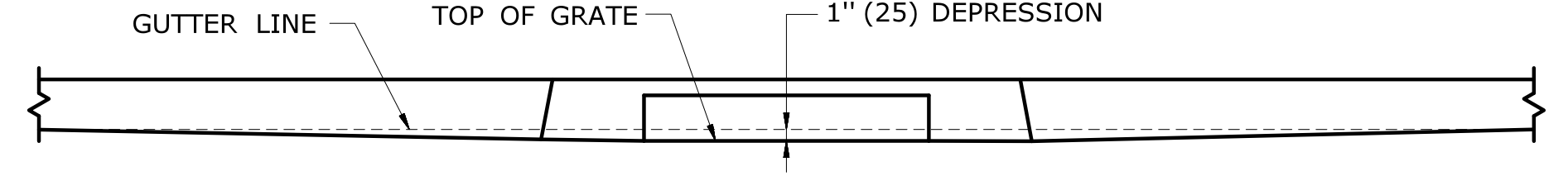
PLAN



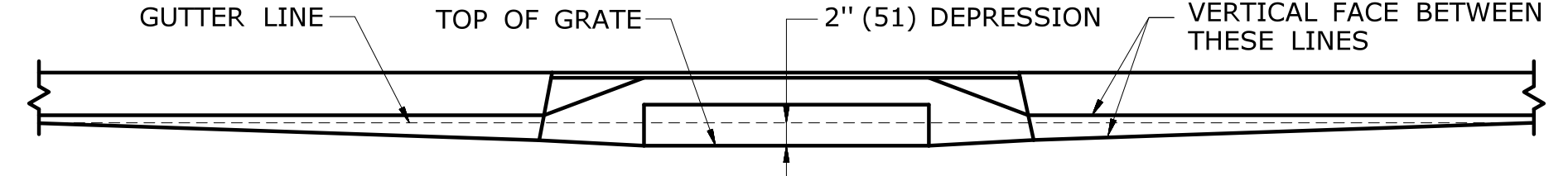
FOR CATCH BASINS IN A LINE OF 4" (102) CONCRETE PARK CURBING OR 4" (102) BITUMINOUS CONCRETE PARK CURBING



FOR CATCH BASINS WHERE NO CURBING OF ANY TYPE EXISTS OR IS PROPOSED



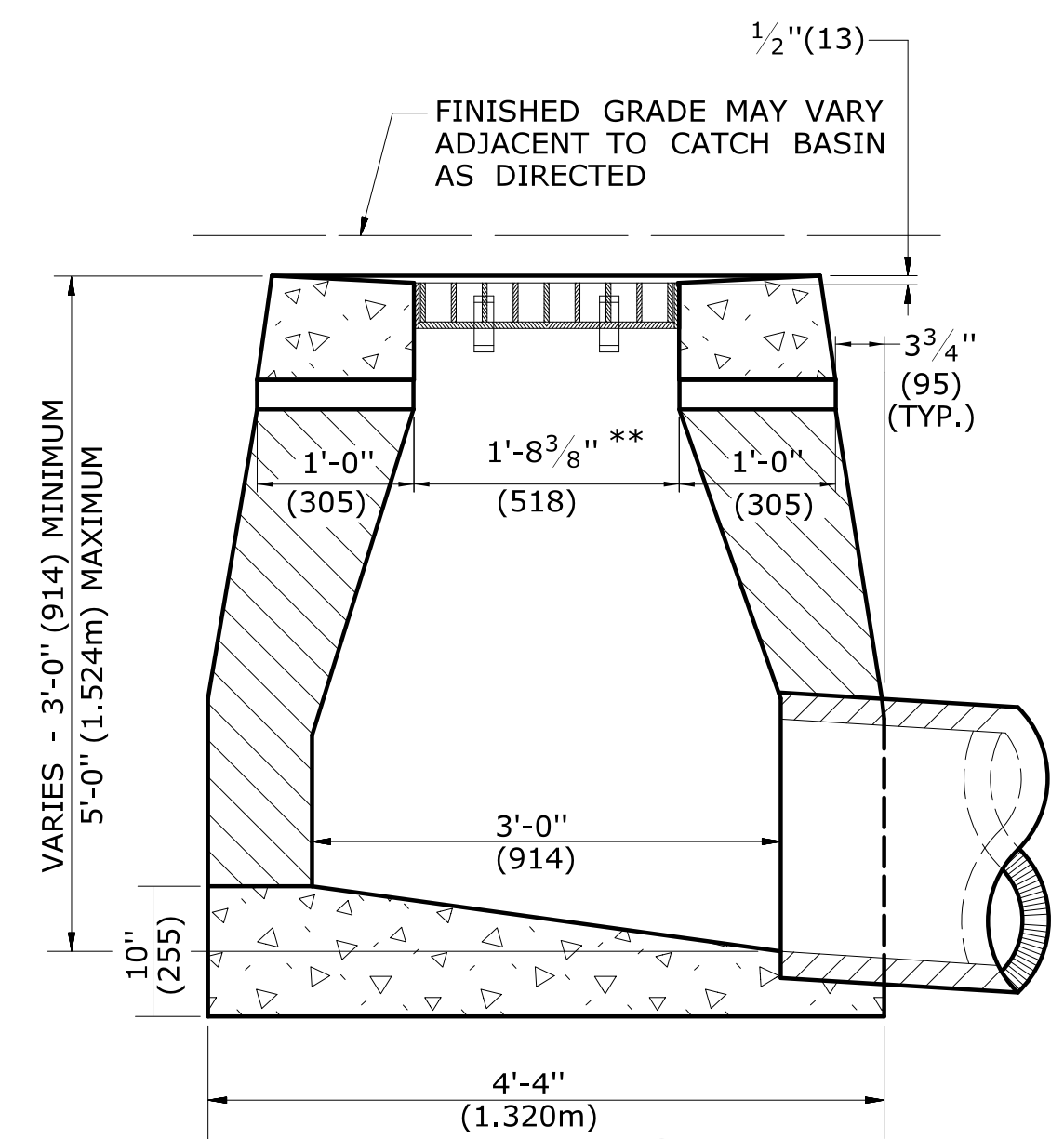
FOR CATCH BASINS IN A LINE OF 6" (152) CONCRETE CURBING OR 6" (152) STONE CURBING



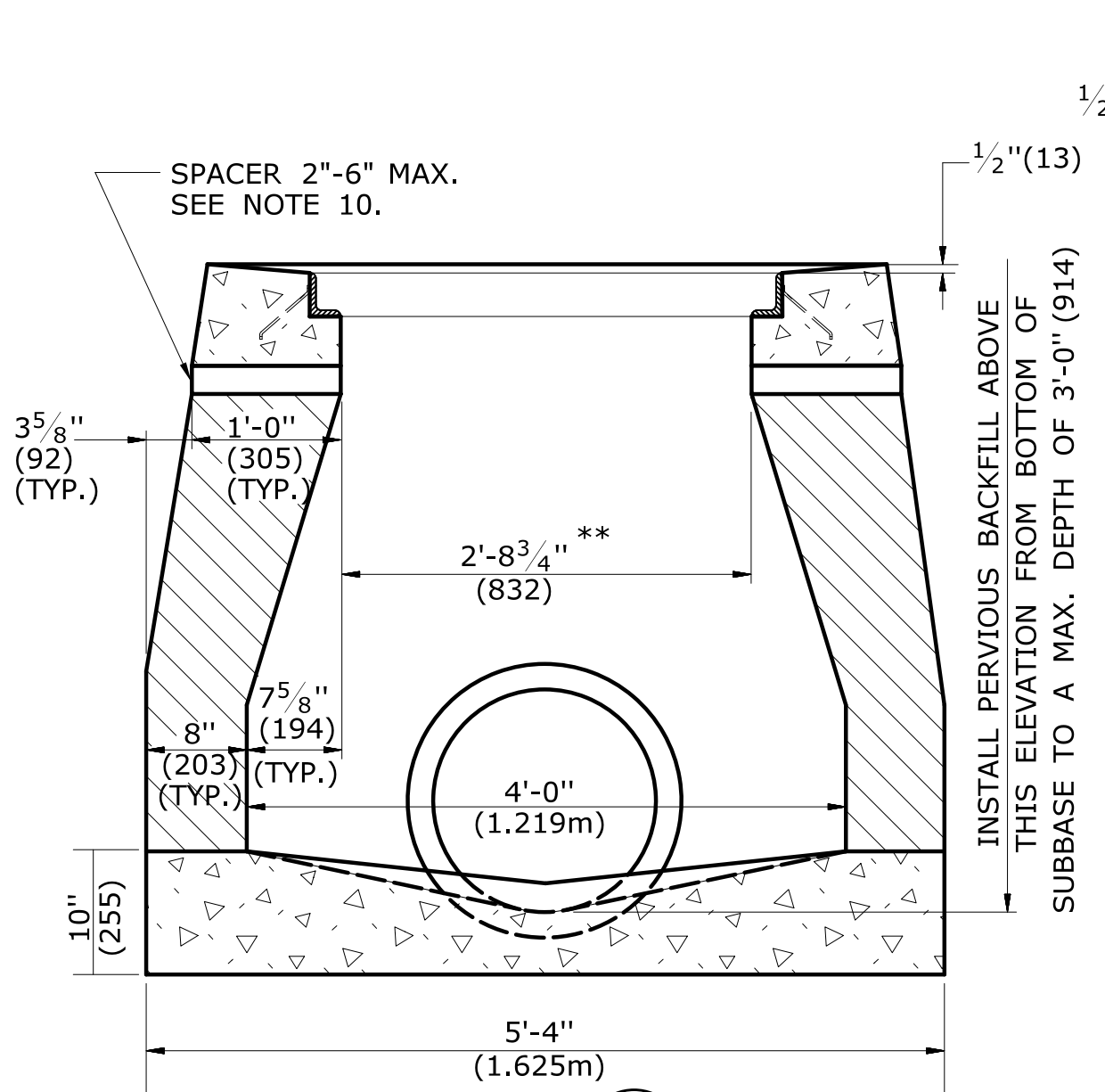
FOR CATCH BASINS IN A LINE OF 6" (152) BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)

DETAILS OF DEPRESSED GUTTER STRIP FOR TYPE "C" CATCH BASIN

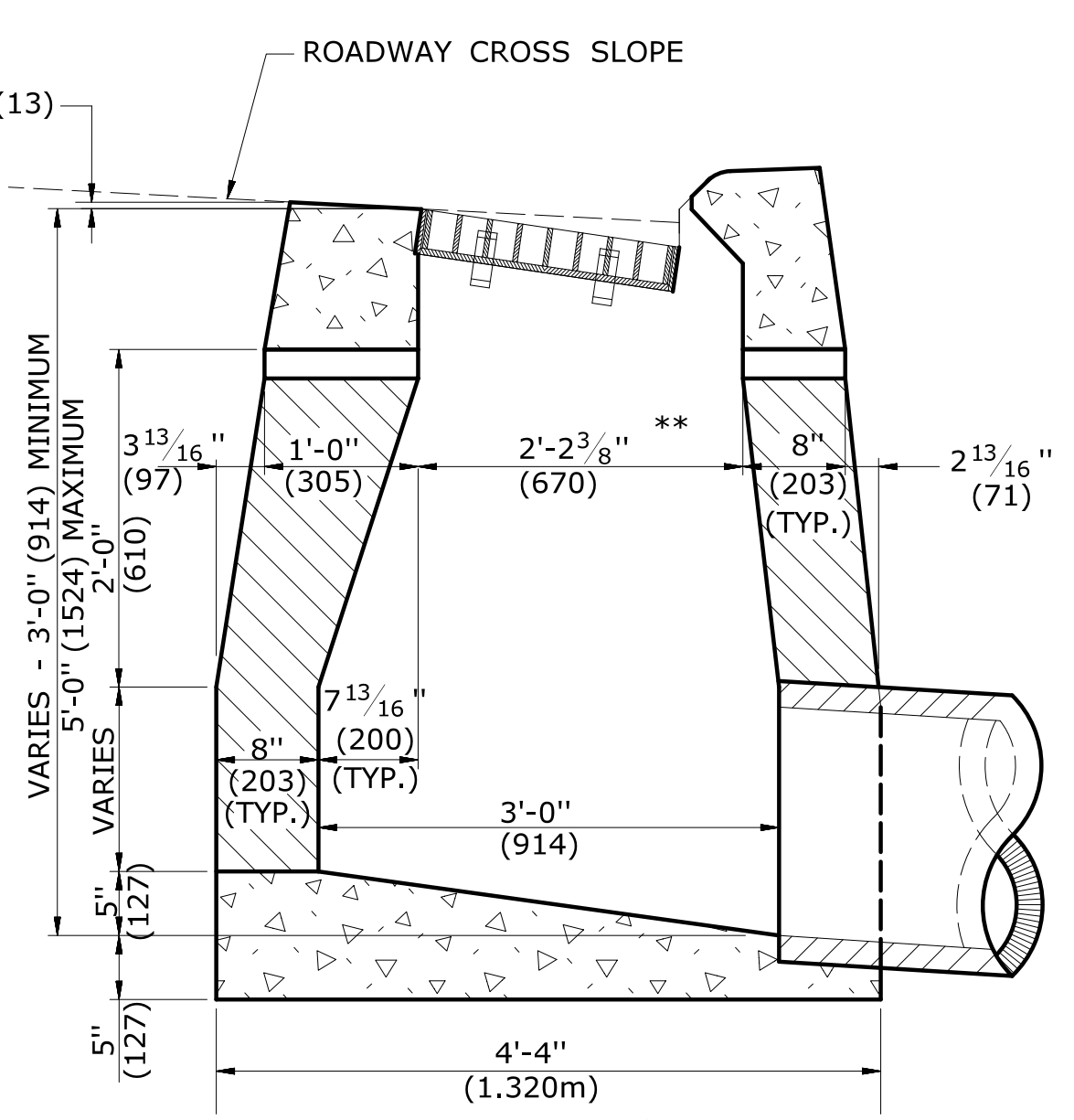
ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.



SECTION B
TYPE "C-L" DROP INLET



SECTION A
**TYPE "C" & "C-L" DROP INLET
(TYPE "C-L" TOP SHOWN)**



SECTION B
TYPE "C" DROP INLET

**CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING**

**TYPE "C", "C-L" &
DROP INLET CATCH BASIN**

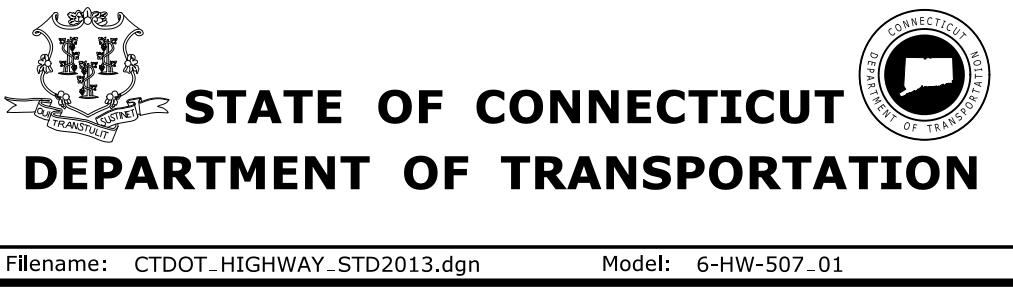
STANDARD SHEET NO.: **HW-507_01**

REV.	DATE	REVISION DESCRIPTION
4	7/13	ADD NOTE 11
3	9/30/11	ADD SPACERS AND NOTE 10.
2	9/15/11	MODIFIED DETAILS TO BE CONSISTANT WITH PRECAST
1	7/28/11	REMOVE MIN. DROP NOTE
-	-	-
-	-	-

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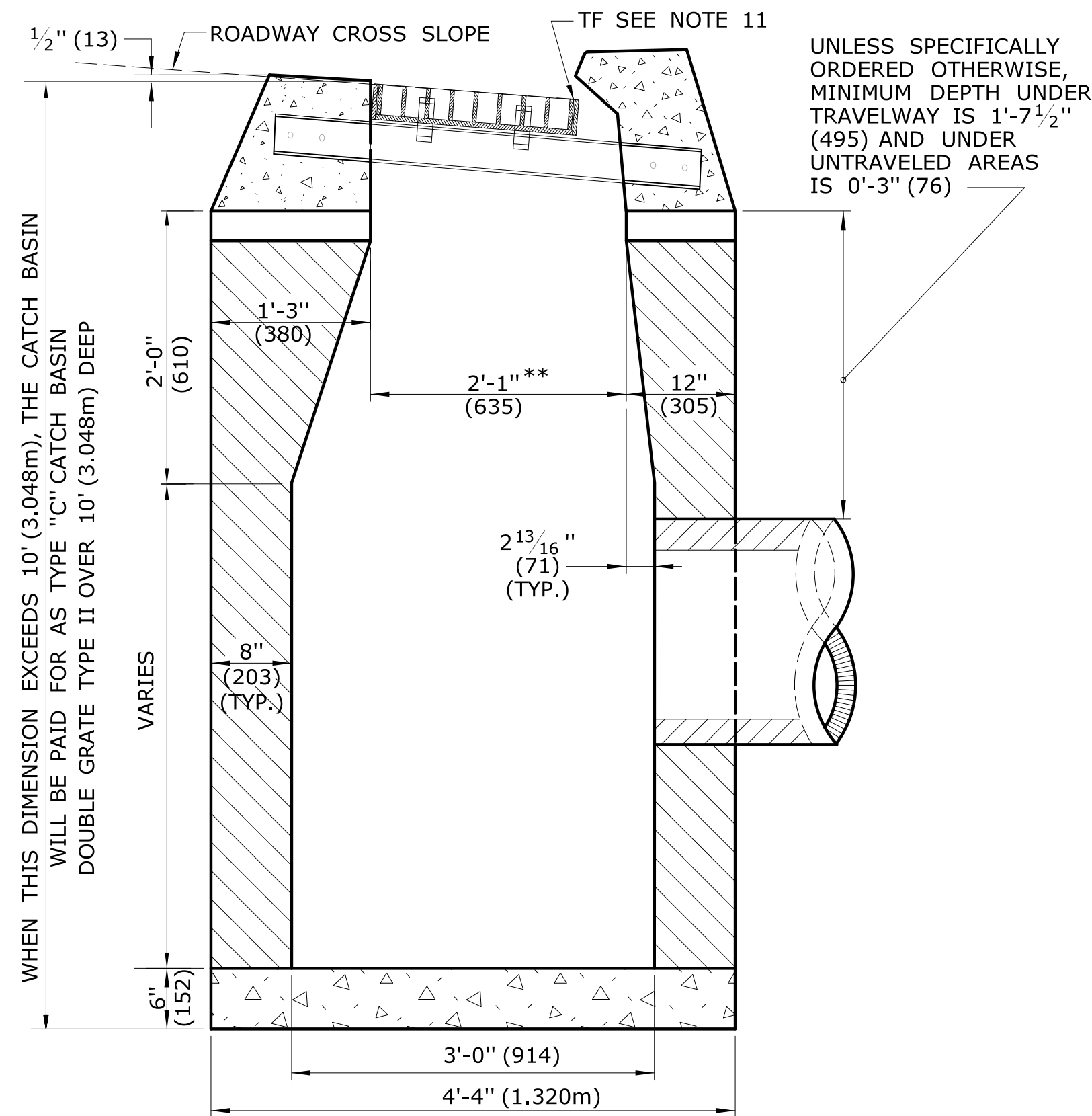
Plotted Date: 6/10/2013

NOT TO SCALE

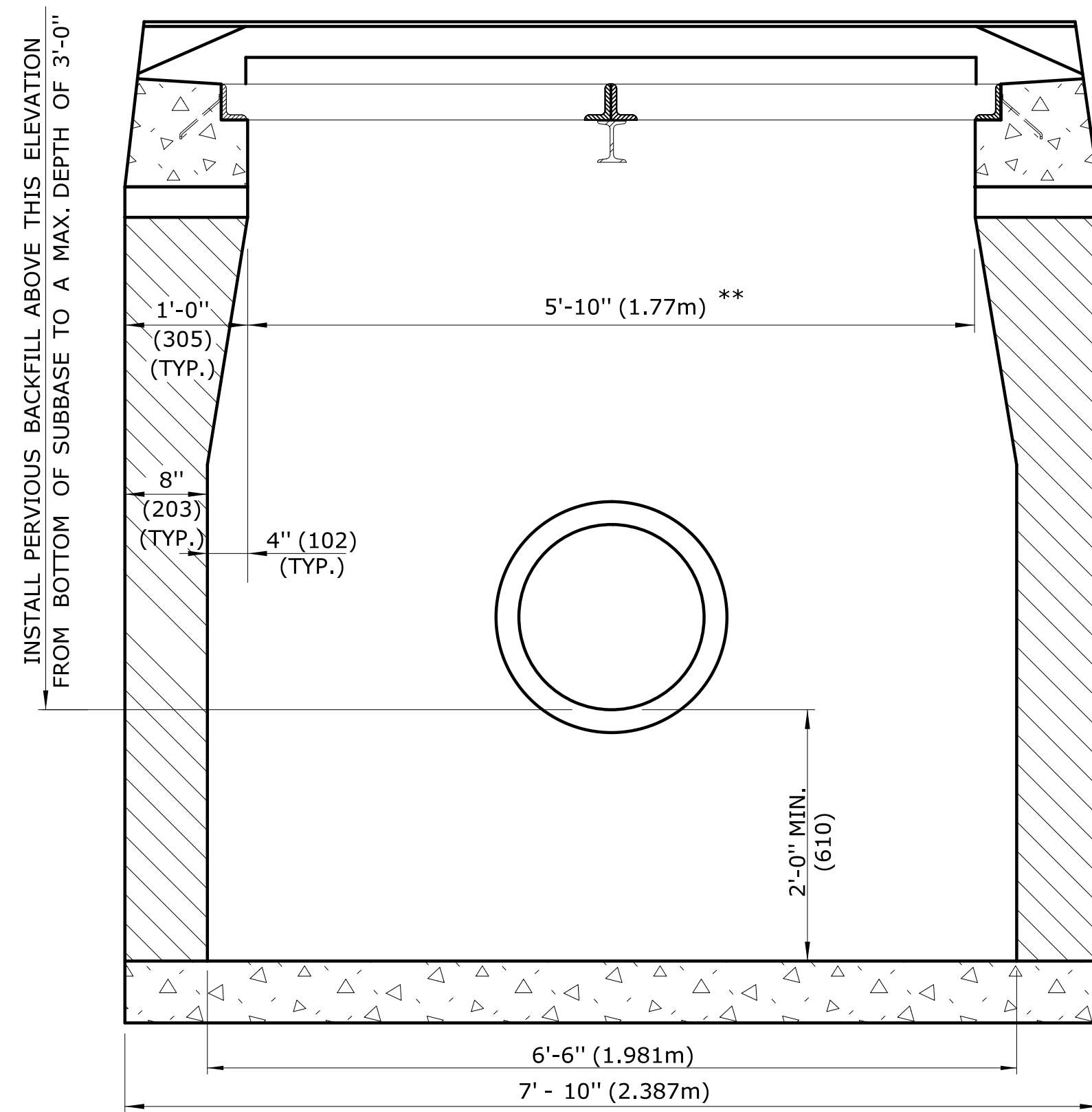


SUBMITTED BY: NAME/DATE/TIME:
APPROVED BY: NAME/DATE/TIME:

Filename: CTDOT-HIGHWAY-STD2013.dgn Model: 6-HW-507_01

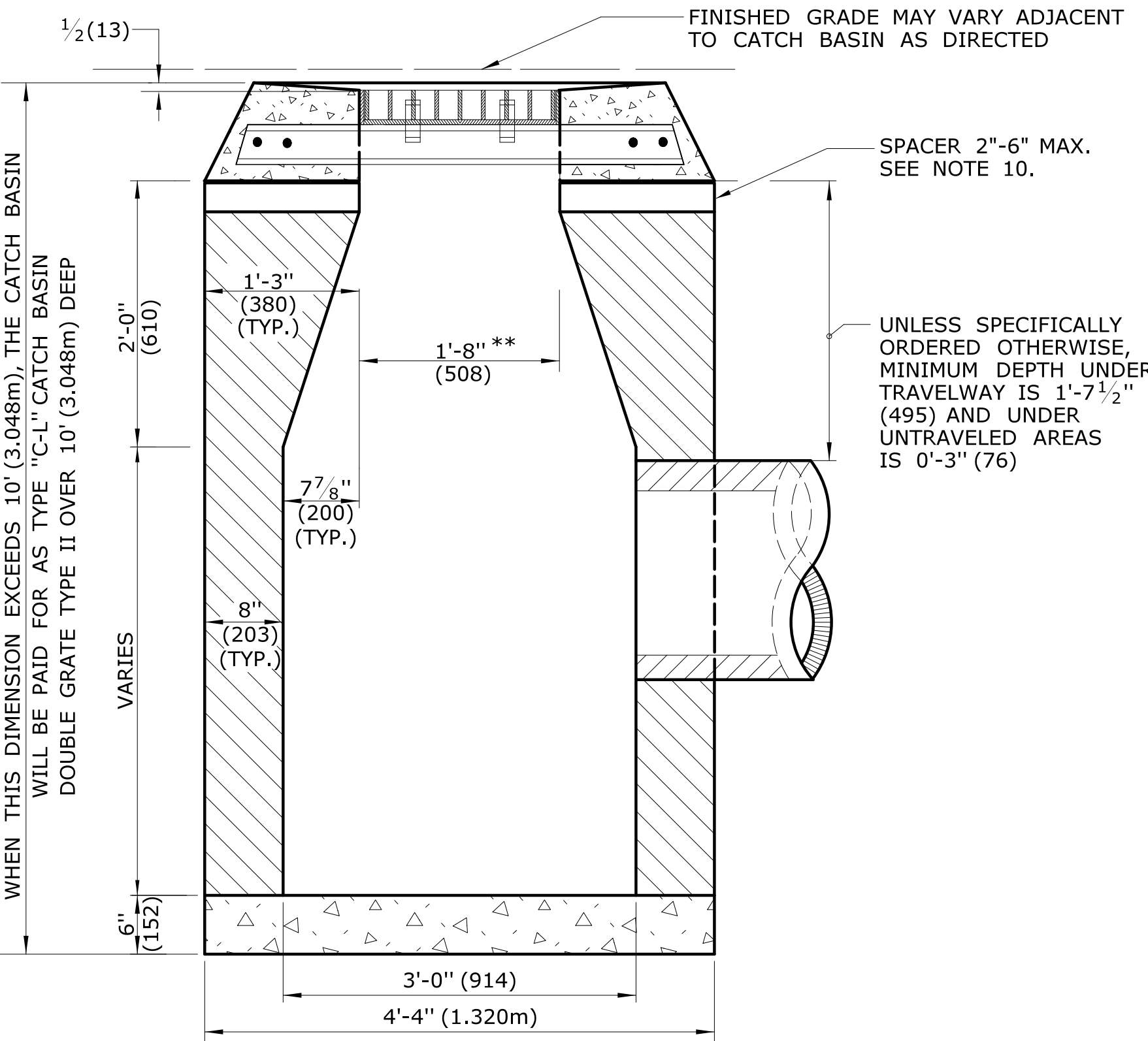


SECTION B

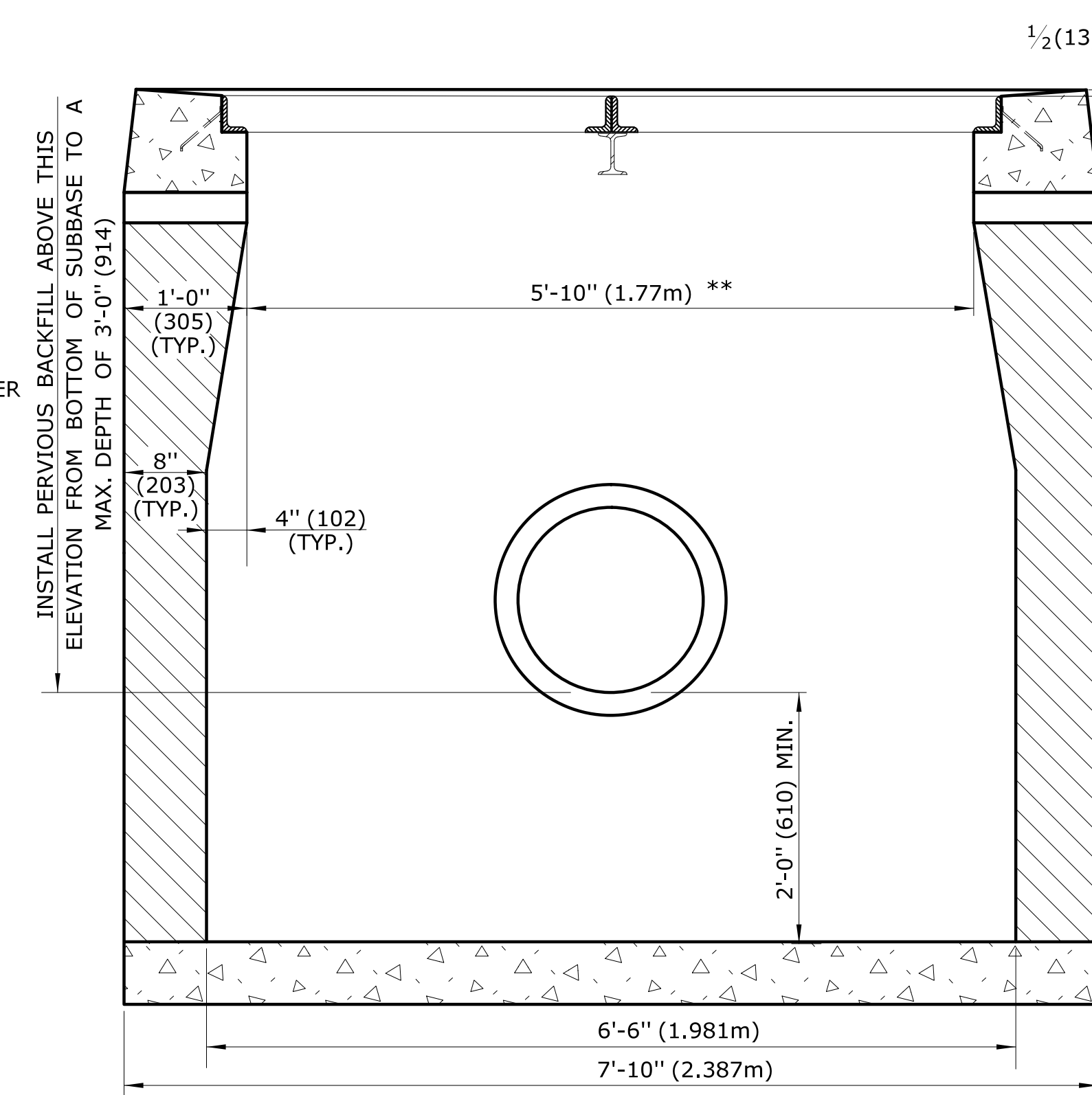


SECTION A

TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II



SECTION B

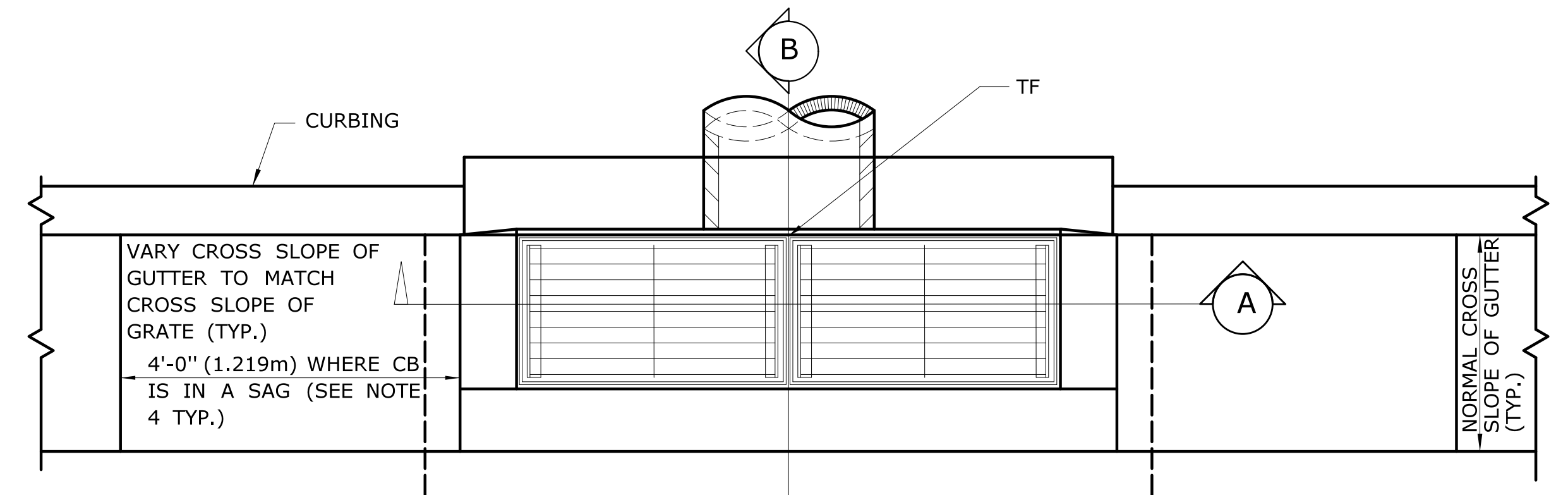


SECTION A

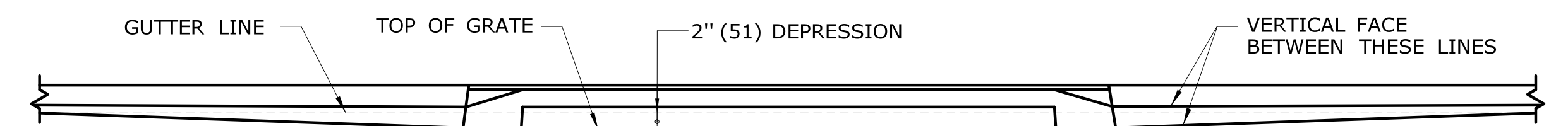
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II

GENERAL NOTES:

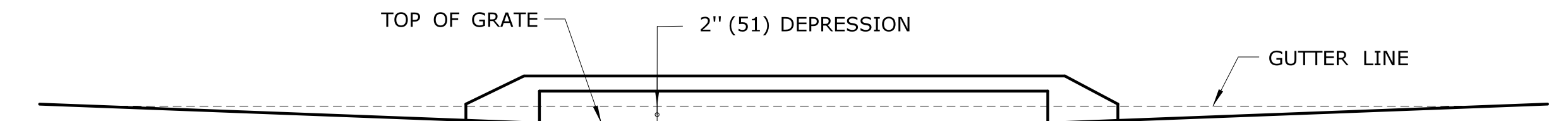
- FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507_08.
- USE APPROPRIATE CONCRETE TOP FOR CURBING SHOWN ON PLANS. IF CURBING IS NOT SPECIFIED ON THE PLANS, IT SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER.
- ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL. THE COST FOR THE PAPER SHALL BE INCLUDED IN THE BID PRICE FOR THE TYPE OF CATCH BASIN INSTALLED.
- USE 6'-0" (1.830m) ON UPGRADE SIDE OF CONTINUOUS GRADE AND 1'-0" (305) ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED.
- IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE OVER ALL DIMENSIONS SHOWN HERE AND SECTION 5.07 OF THE STATE OF CONNECTICUT'S STANDARD SPECIFICATIONS. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3" (75). NO PROJECTION SHALL EXTEND INSIDE THE LIMITS NOTED BY **.
- WALL THICKNESS OF ALL CB'S OVER 10' (3.048m) DEEP SHALL BE INCREASED TO 12" (305) THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. (12" (305) THICKNESS WILL START AFTER THE FIRST 10' (3.048m)).
- TO CONVEY SUBSURFACE DRAINAGE, OPENINGS SHALL BE FORMED IN THE FOUR WALLS AT OR IMMEDIATELY ABOVE THE BOTTOM OF THE PERVIOUS BACKFILL.
- MINIMUM CONCRETE COMPRESSIVE STRENGTH OF F'c = 4000 PSI (27,580 kPa) SHALL BE OBTAINED PRIOR TO SHIPPING.
- LATEST STATE OF CONNECTICUT'S STANDARD SPECIFICATIONS AND SUPPLEMENTALS SHALL GOVERN.
- SPACER MAY BE CMU OR PRECAST WITH REQUIRED REINFORCING (RECOMMENDED BY THE MANUFACTURER) AS NEEDED TO PROVIDE PROPER GRADE SHOWN ON PLANS.
- TOP OF FRAME (TF) ELEVATION SHALL BE MEASURED IN BETWEEN BOTH GRATES @ THE GUTTER.



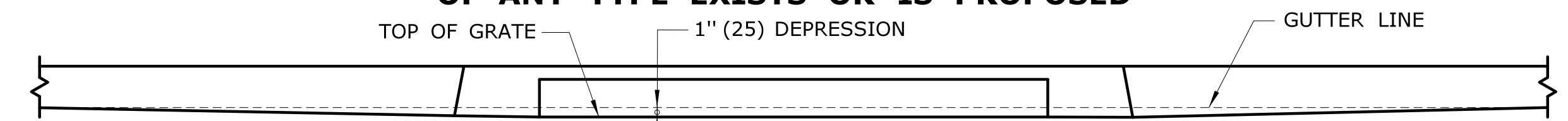
PLAN



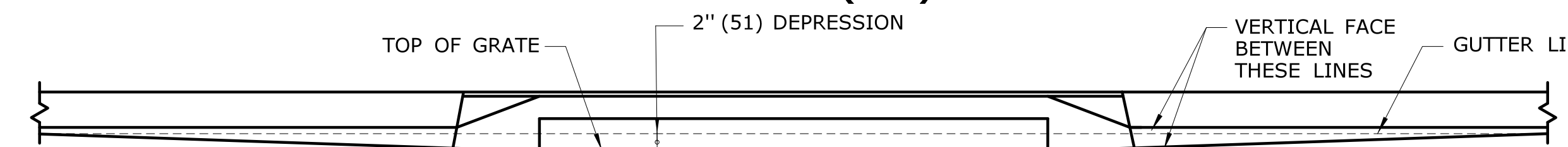
FOR CATCH BASINS IN A LINE OF 4" (102) CONCRETE PARK CURBING OR 4" (102) BITUMINOUS CONCRETE PARK CURBING



FOR CATCH BASINS WHERE NO CURBING OF ANY TYPE EXISTS OR IS PROPOSED



FOR CATCH BASINS IN A LINE OF 6" (152) CONCRETE CURBING OR 6" (152) STONE CURBING



FOR CATCH BASINS IN A LINE OF 6" (152) BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED) DETAILS OF DEPRESSED GUTTER STRIP FOR TYPE "C" CATCH BASIN DOUBLE GRATE TYPE II

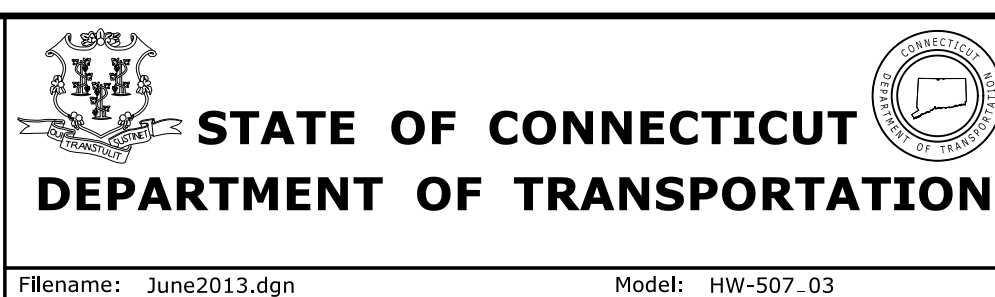
ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

REV.	DATE	REVISION DESCRIPTION
4	7/13	ADD NOTE 11
3	10/3/11	ADD SPACERS AND NOTE 10.
2	9/15/11	MODIFIED DETAILS TO BE CONSISTANT WITH PRECAST
1	7/28/11	REMOVE MIN. DROP NOTE

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: 3/21/2013

NOT TO SCALE

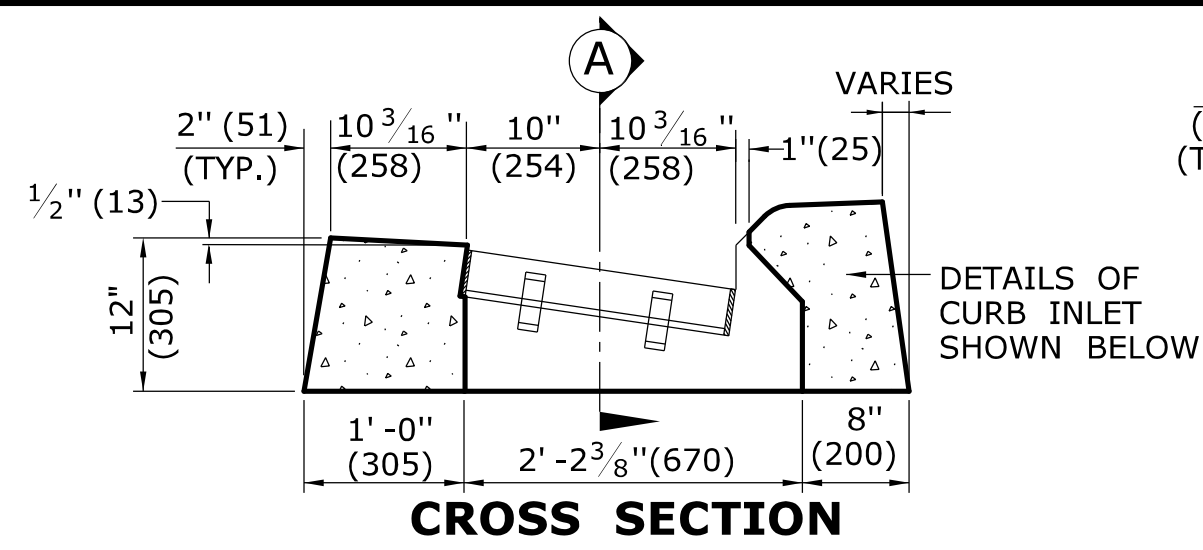


SUBMITTED BY:	NAME/DATE/TIME:
APPROVED BY:	NAME/DATE/TIME:

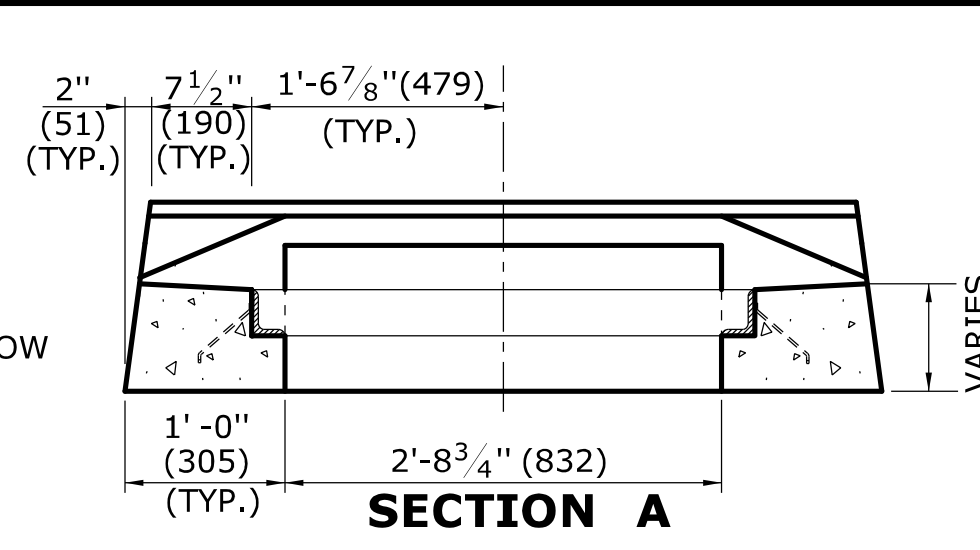
**CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING**

STANDARD SHEET TITLE:
**TYPE "C" , "C-L" &
DOUBLE GRATE TYPE - II**

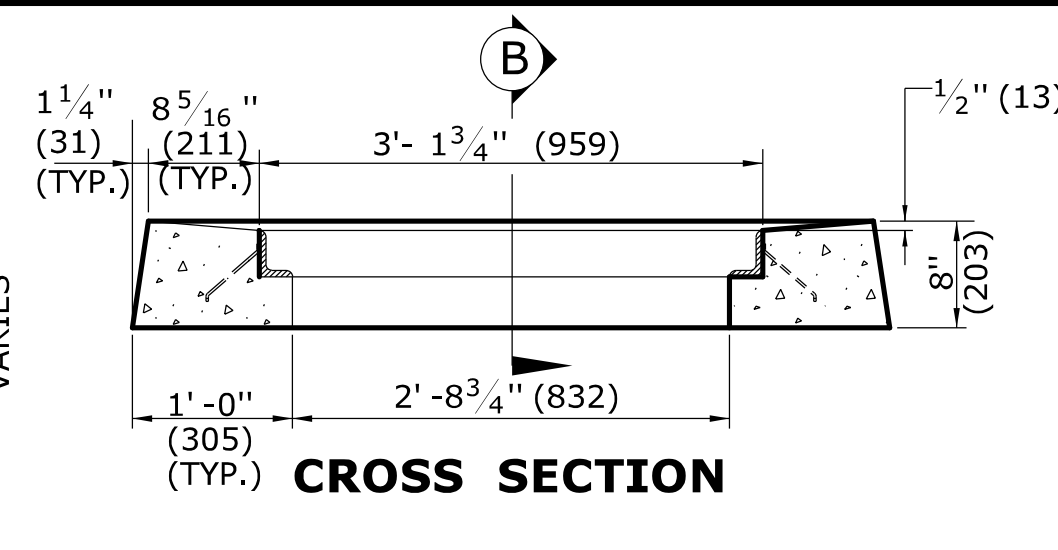
STANDARD SHEET NO.:
HW-507_03



CROSS SECTION
TYPE "C" CATCH BASIN TOP

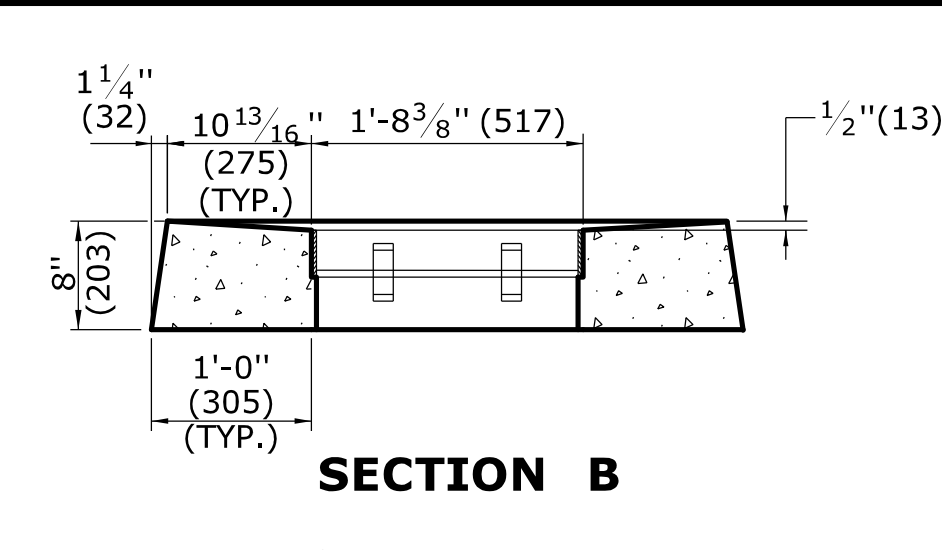


SECTION A



CROSS SECTION

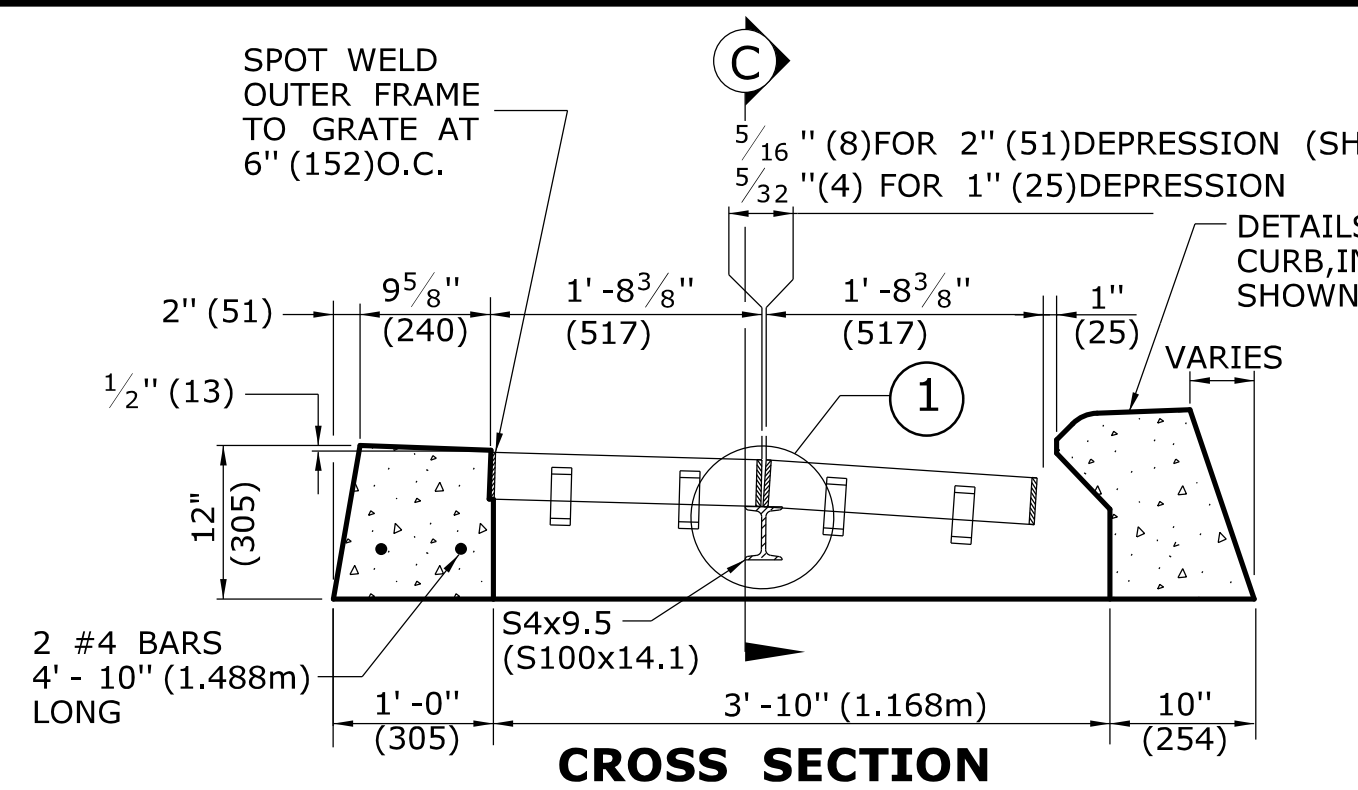
TYPE "C-L" CATCH BASIN TOP



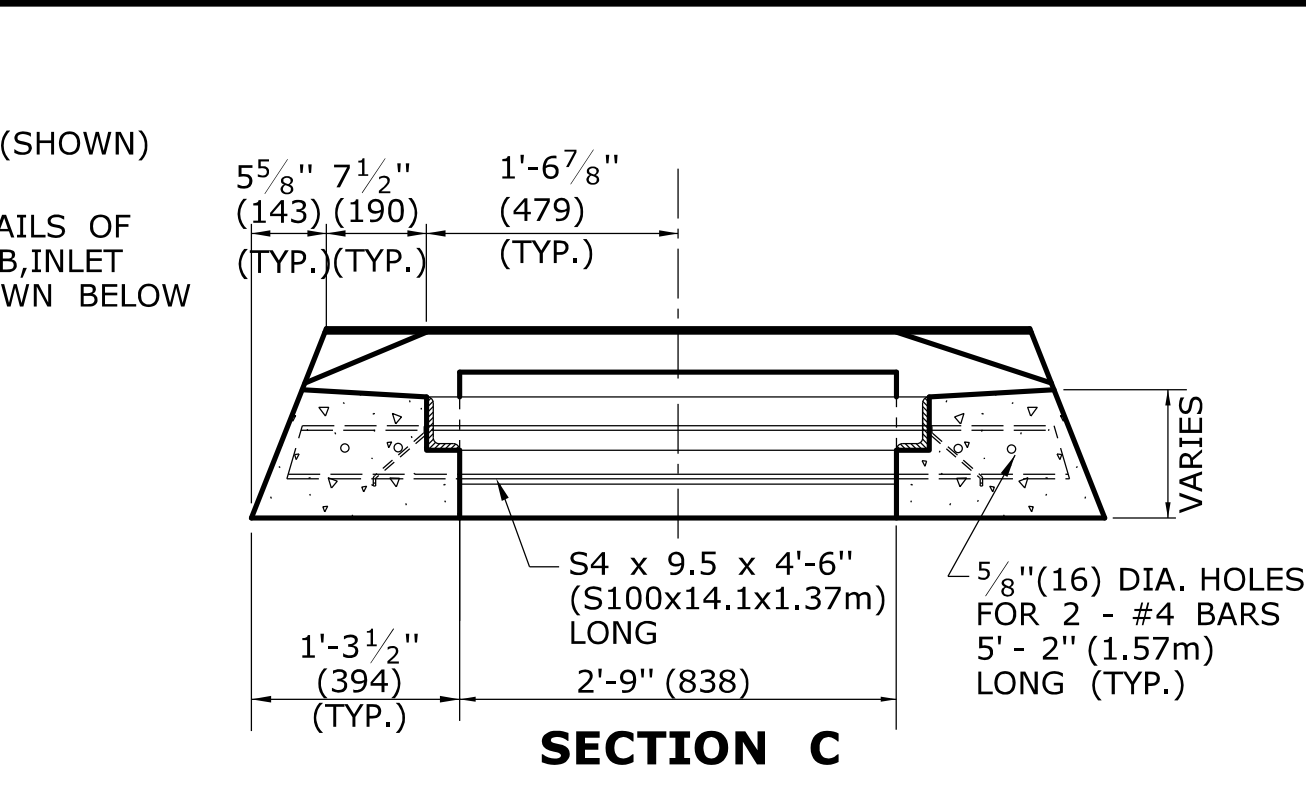
SECTION B

GENERAL NOTES:

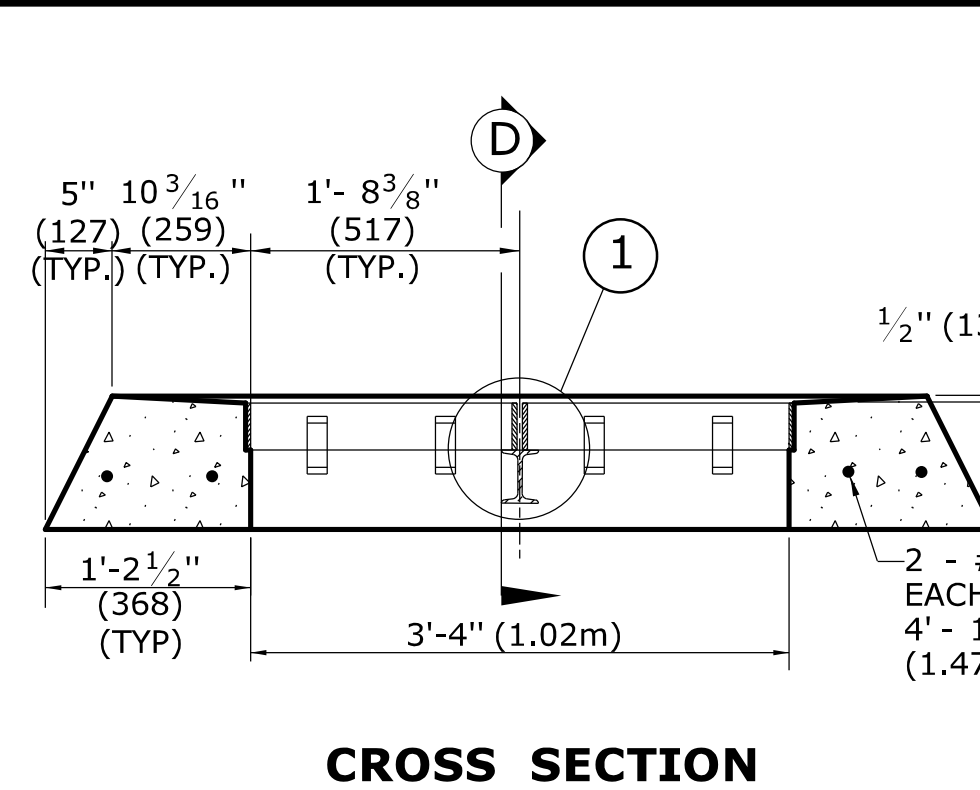
1. FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507-08.
2. ALL STEEL, EXCEPT REINFORCING BARS, SHALL BE GALVANIZED IN CONFORMANCE WITH SECTION M06.03 OF CONNECTICUT'S STANDARD SPECIFICATIONS.
3. ALL BARS SHALL HAVE A MINIMUM 2" (51) COVER.



CROSS SECTION
TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I TOP

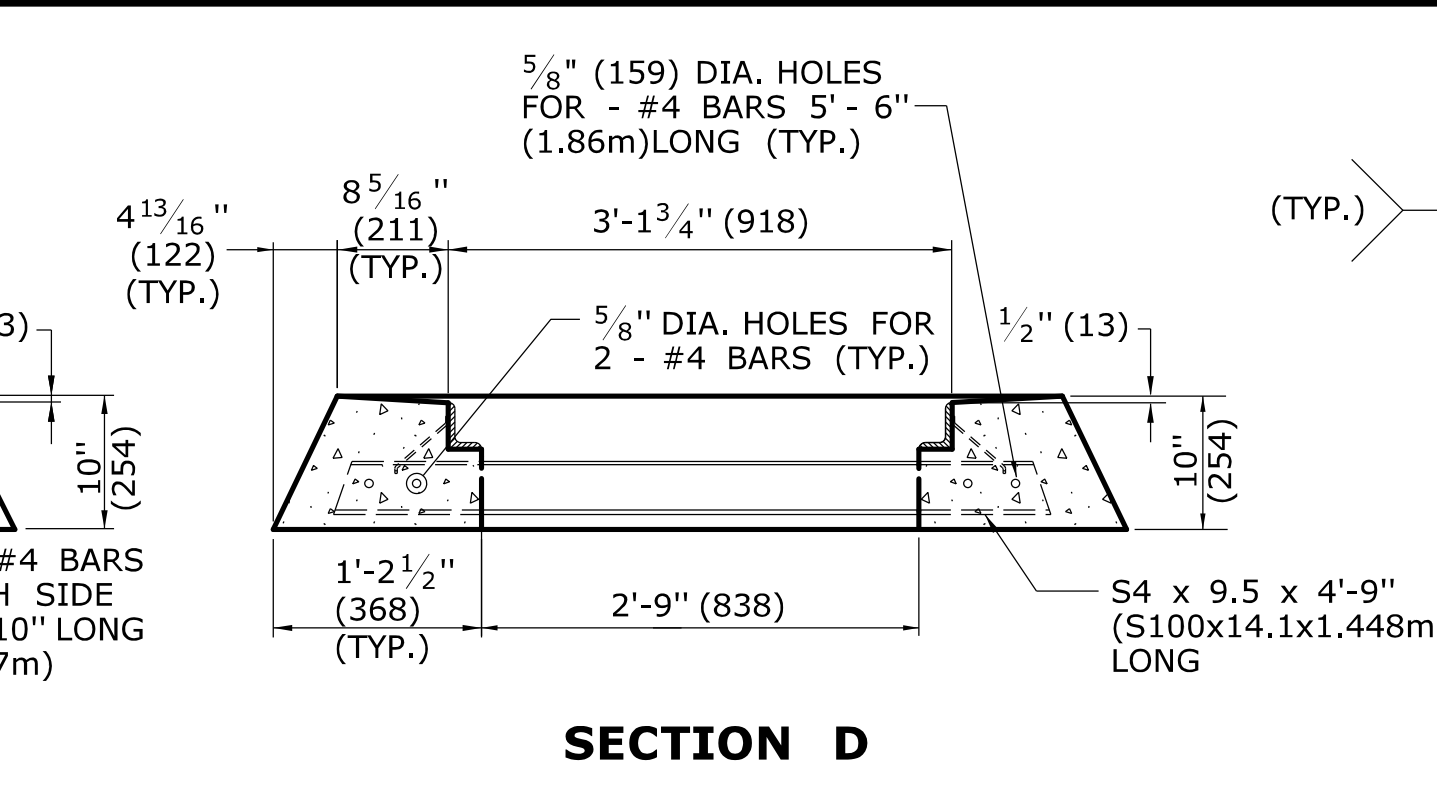


SECTION C

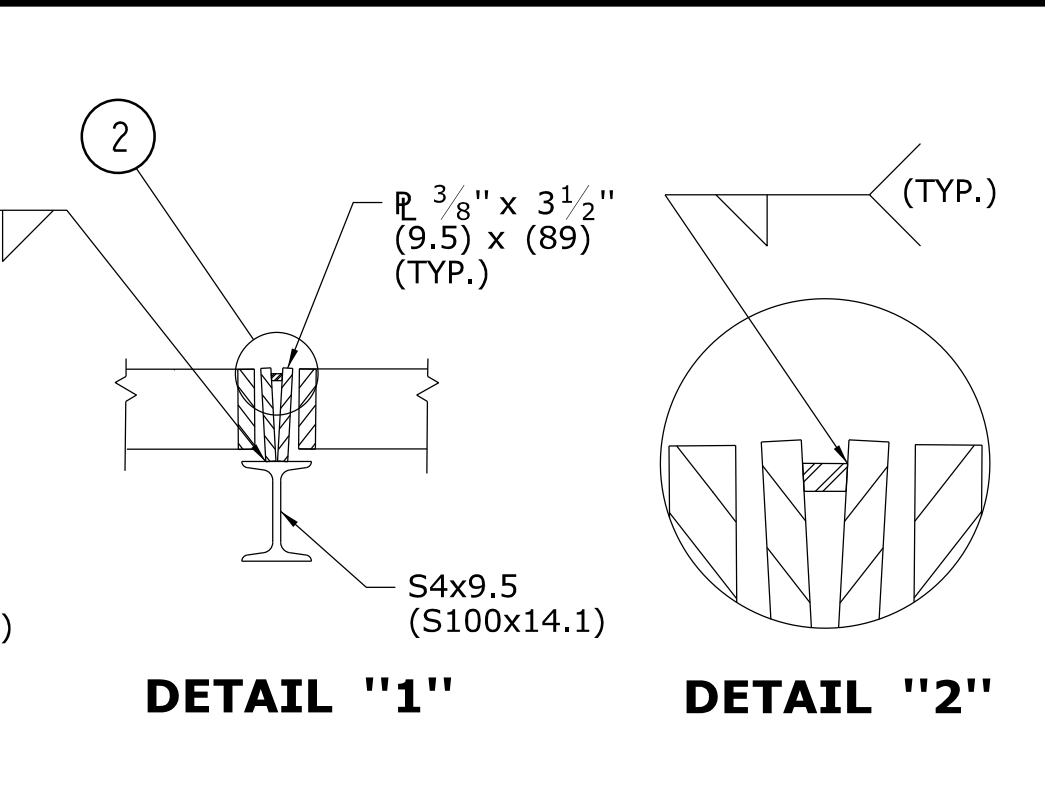


CROSS SECTION

TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE I TOP

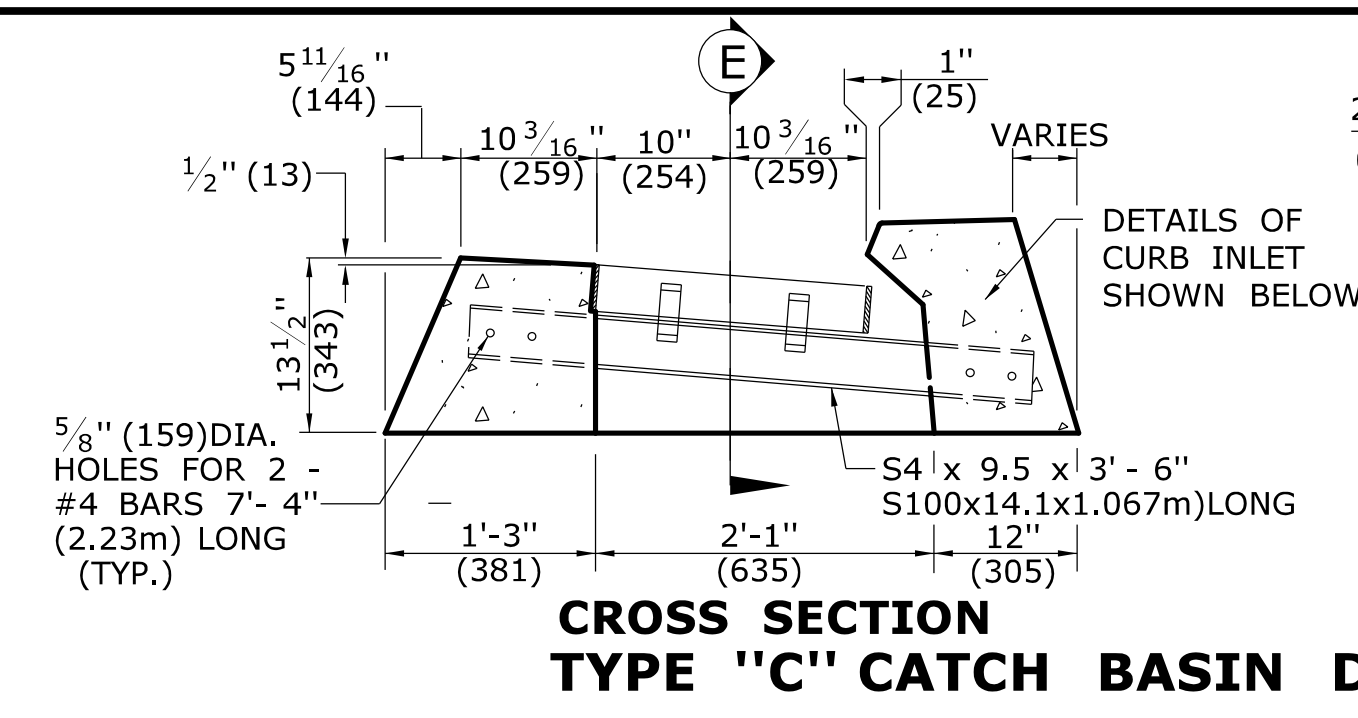


SECTION D

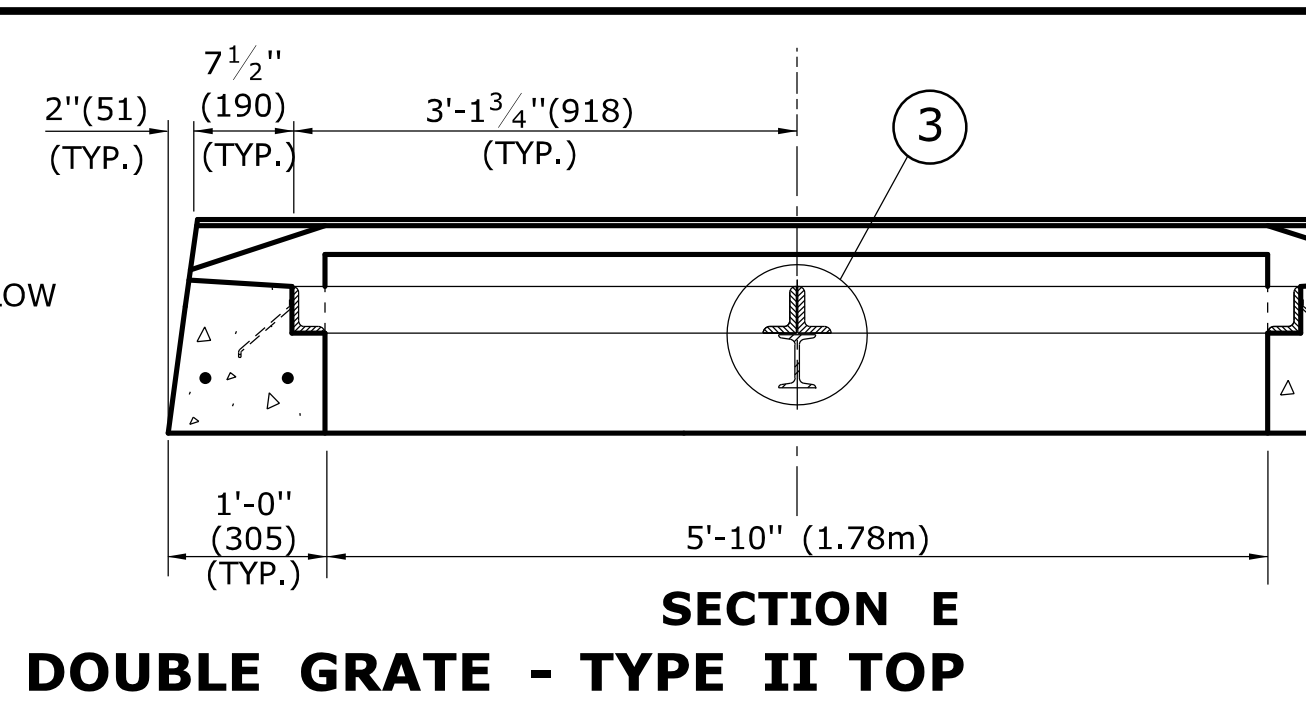


DETAIL "1"

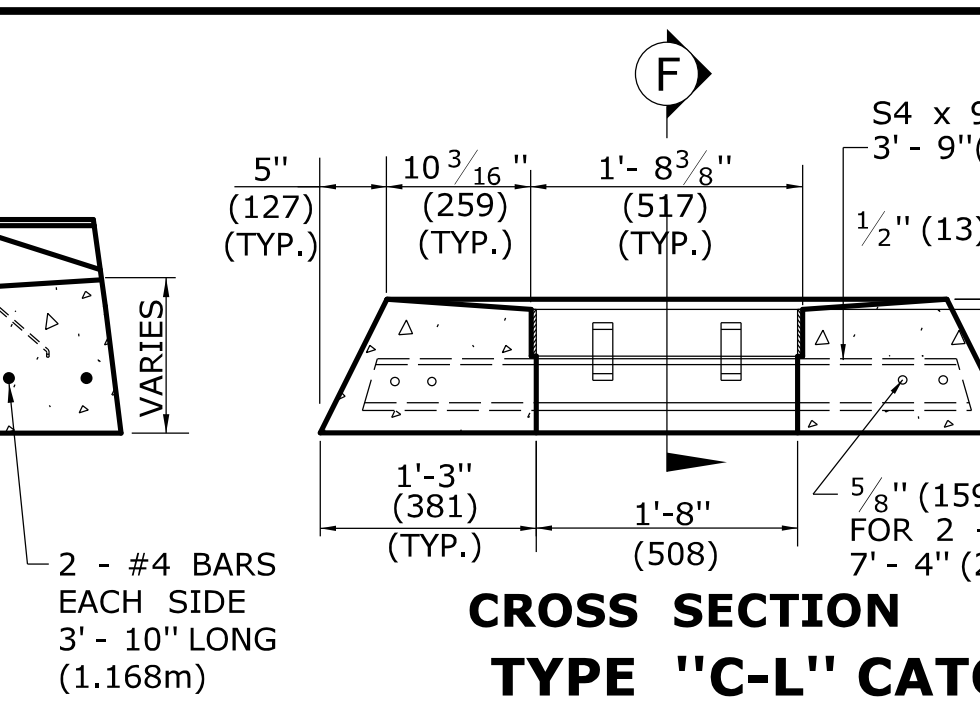
DETAIL "2"



CROSS SECTION
TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II TOP

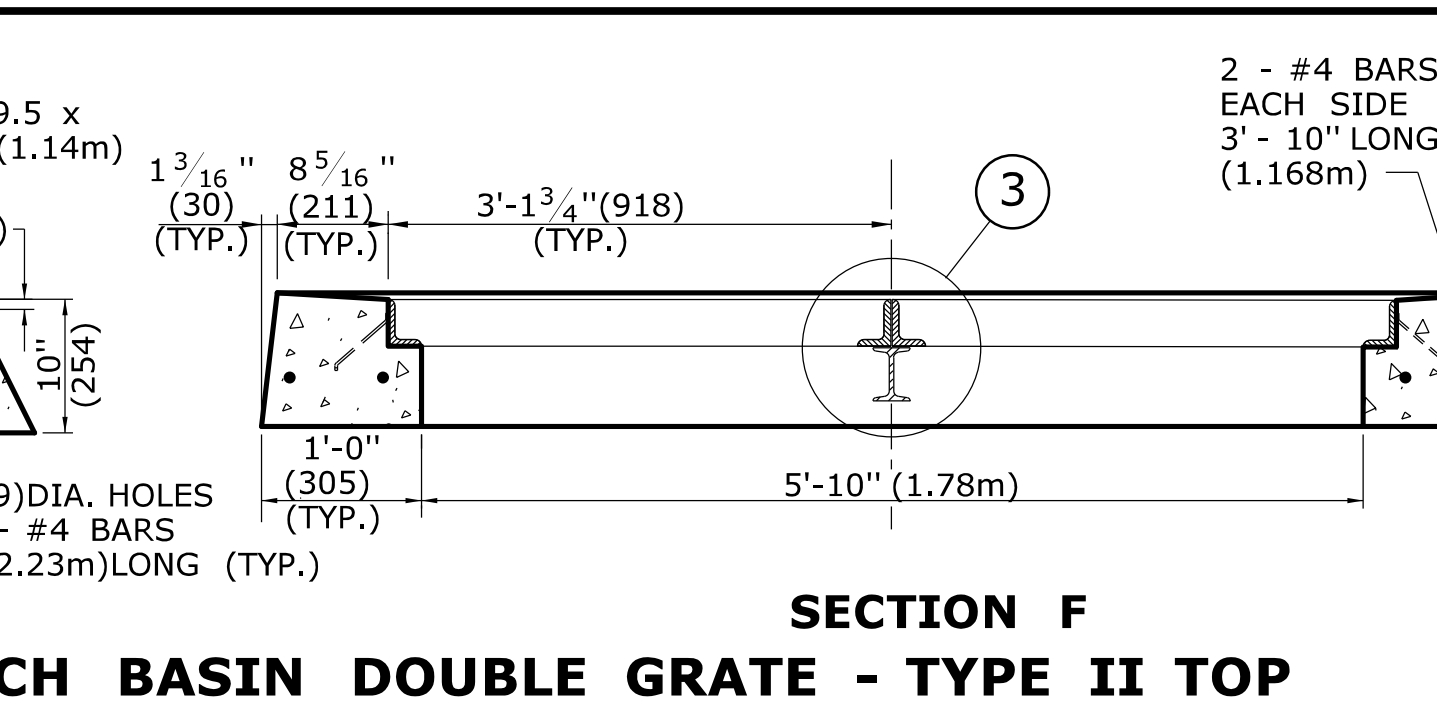


SECTION E

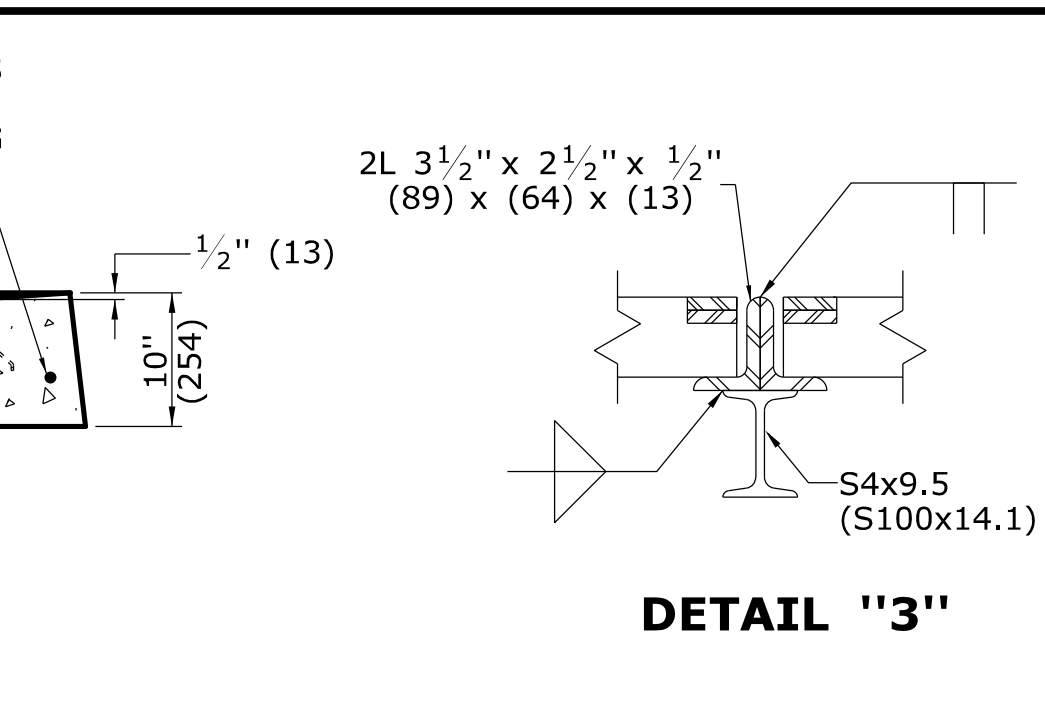


CROSS SECTION

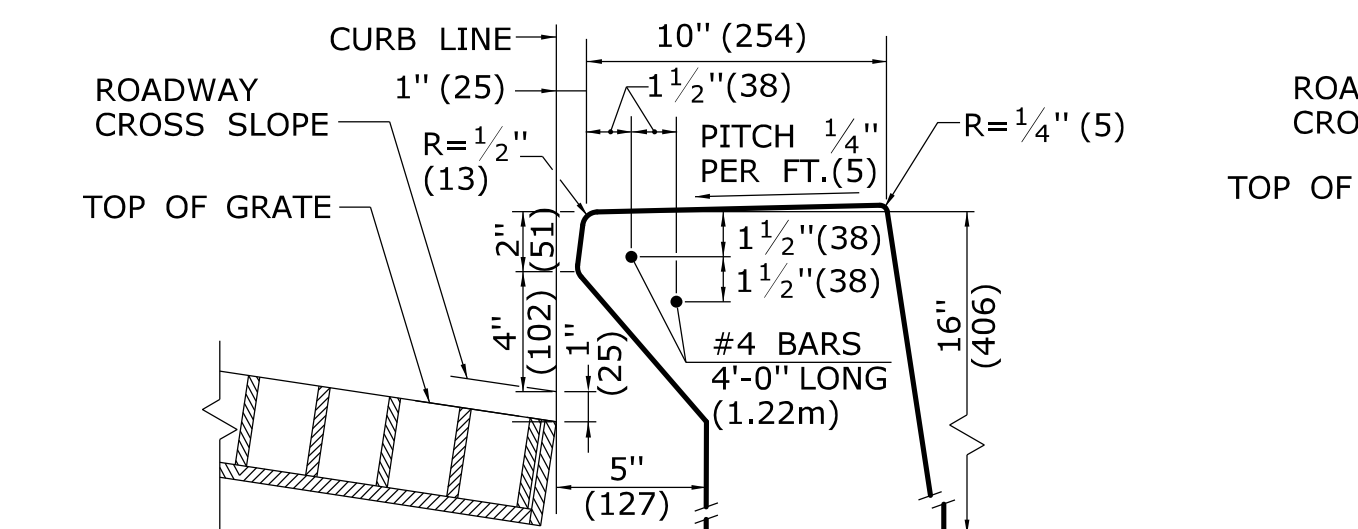
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II TOP



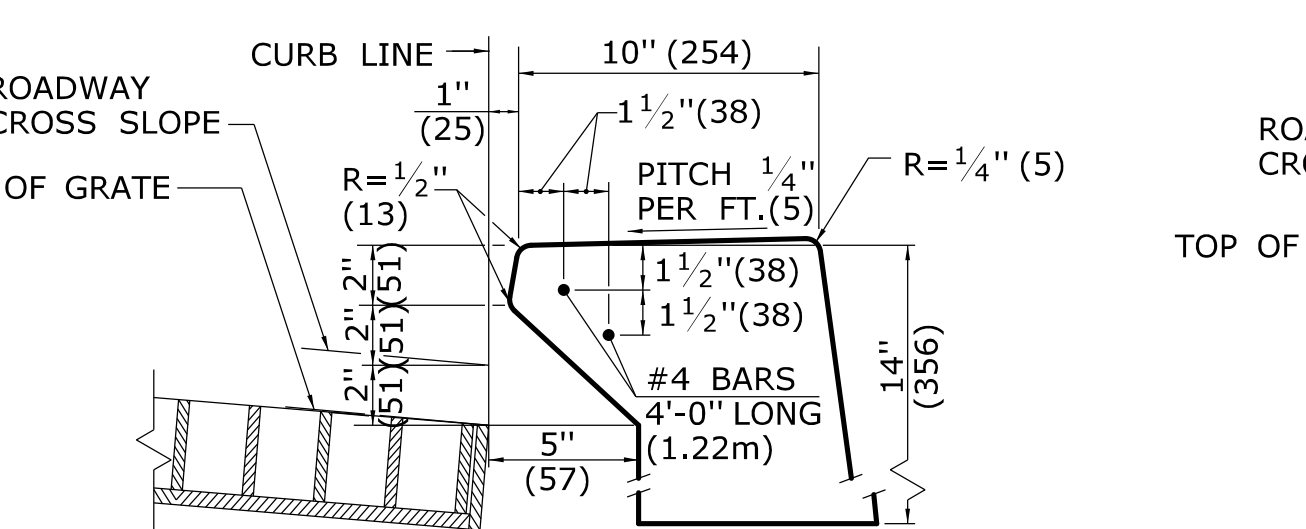
SECTION F



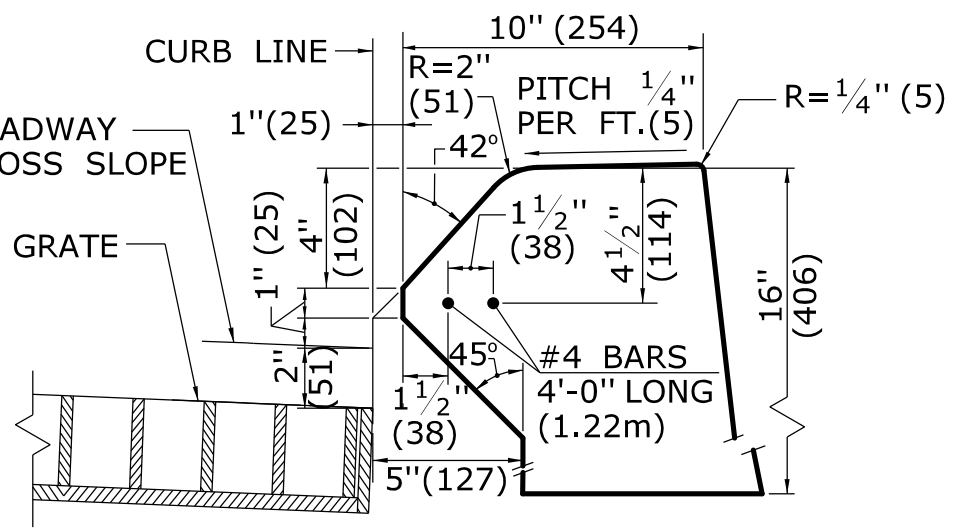
DETAIL "3"



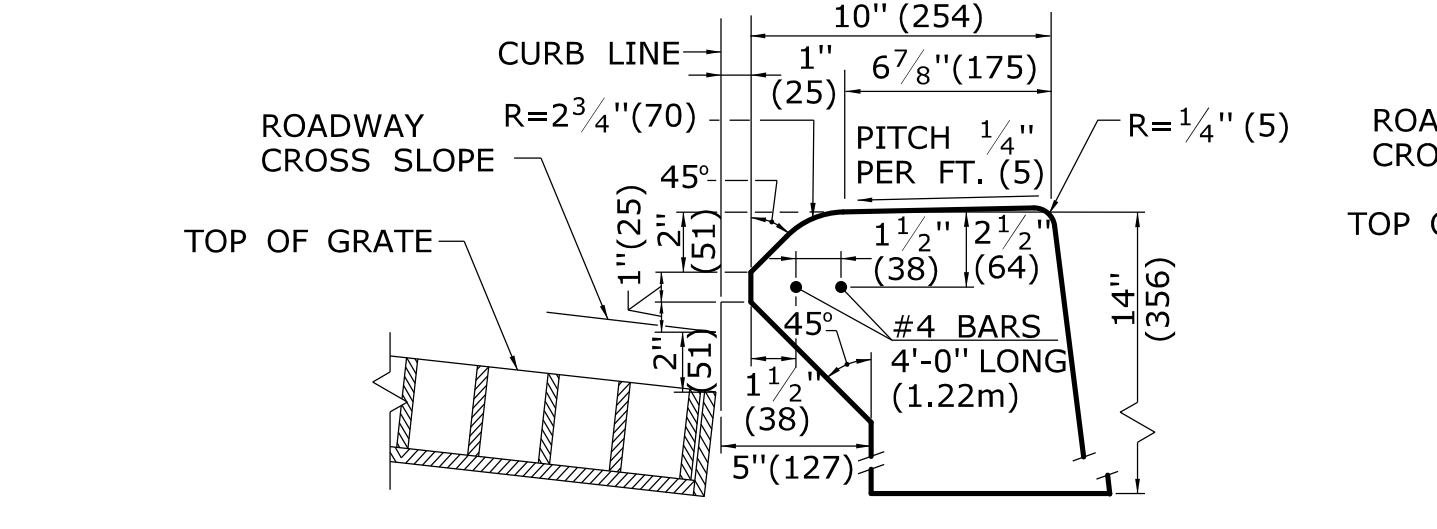
INLET WITH 6" (152) CONCRETE OR STONE CURBING FOR TYPE "C" CB



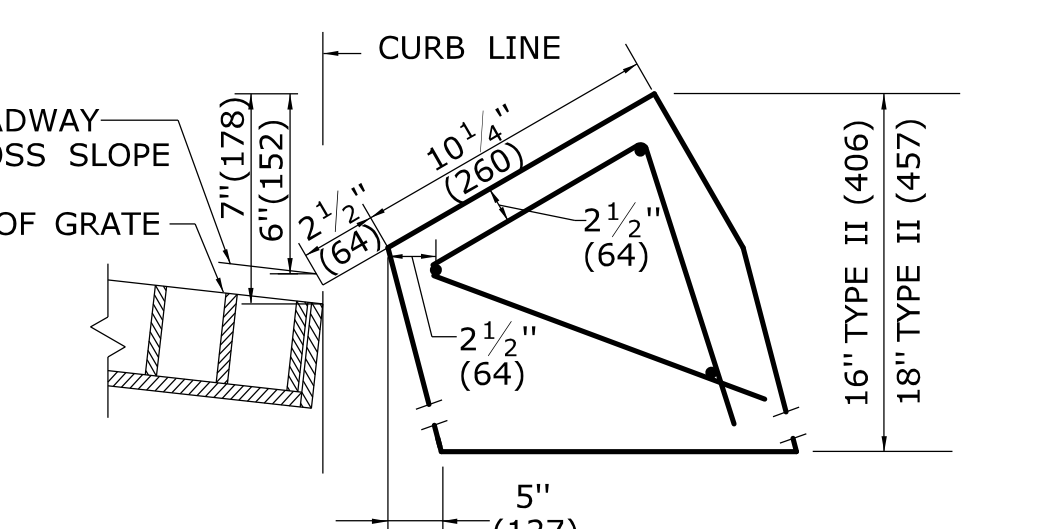
INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB



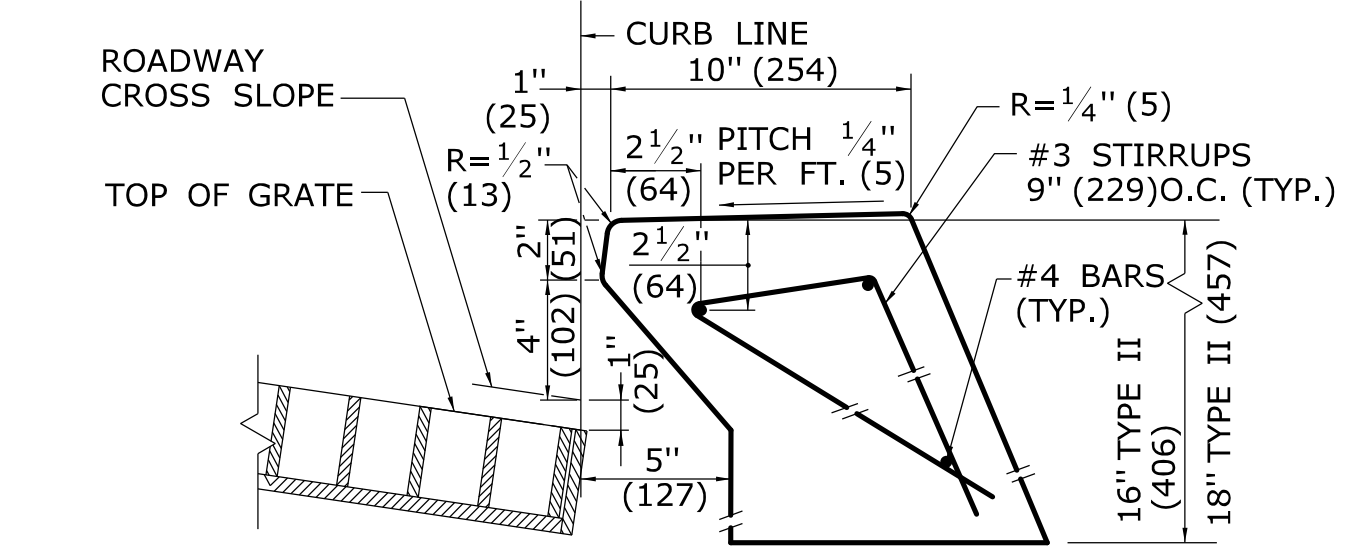
INLET WITH 6" (152) BITUMINIOUS CONCRETE LIP CURBING FOR TYPE "C" CB



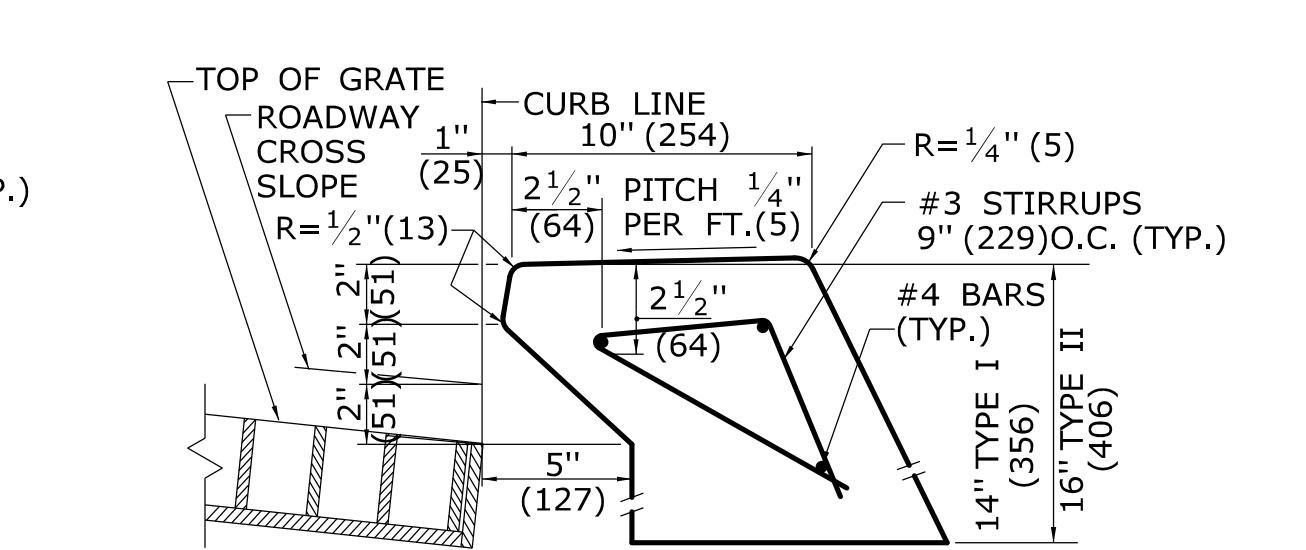
INLET WITH 4" (102) CONCRETE PARK CURBING FOR TYPE "C" CB



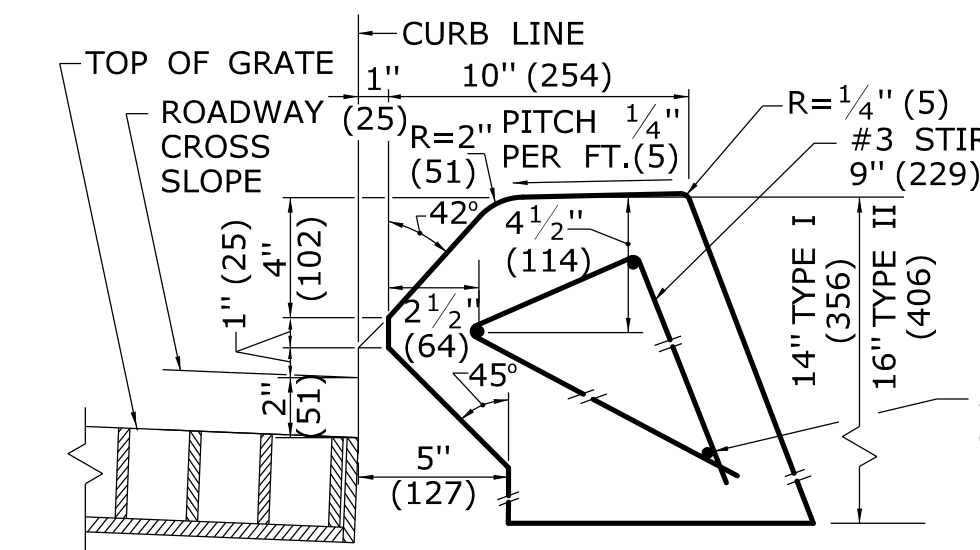
INLET WITH GRANITE SLOPE CURB FOR TYPE "C" CB



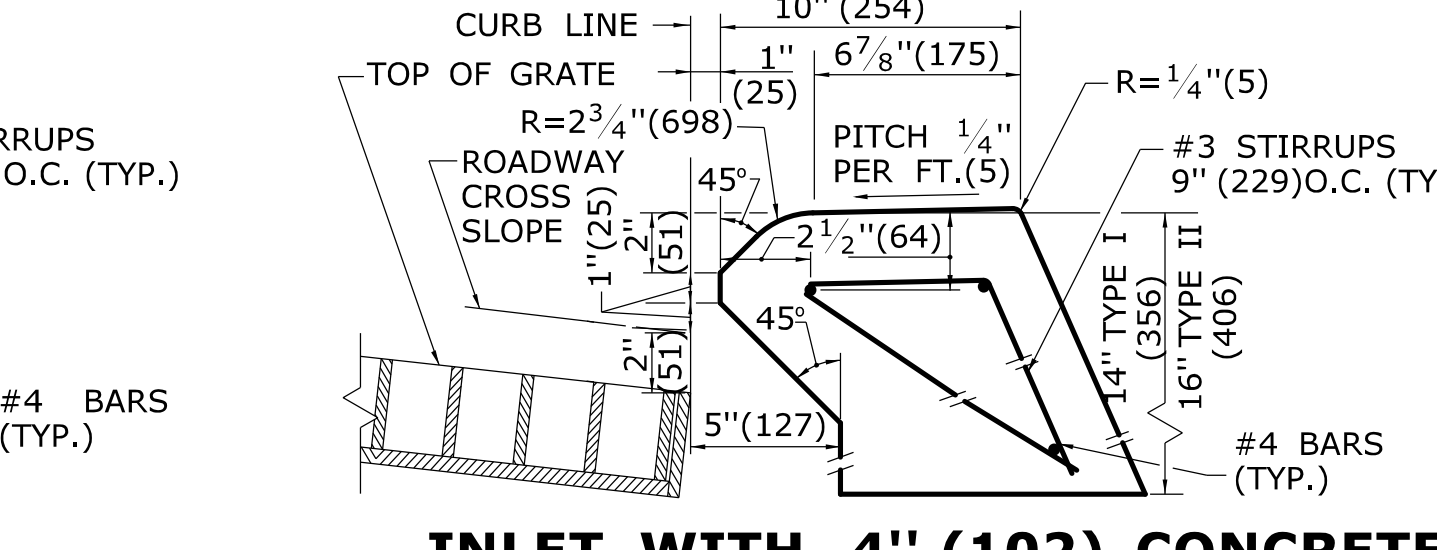
INLET WITH 6" (152) CONCRETE OR STONE CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



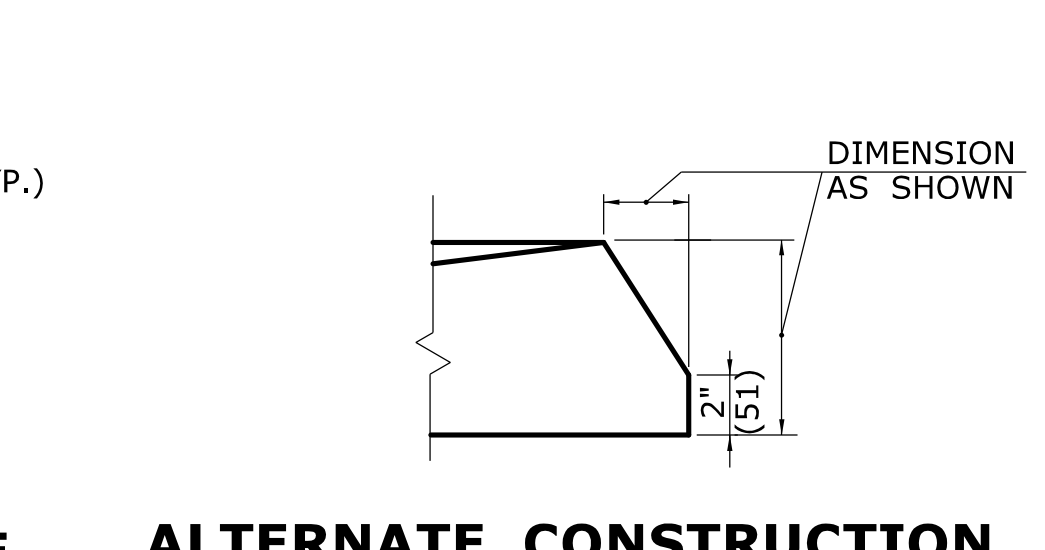
INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



INLET WITH 6" (152) BITUMINIOUS CONCRETE LIP CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



INLET WITH 4" (102) CONCRETE PARK CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



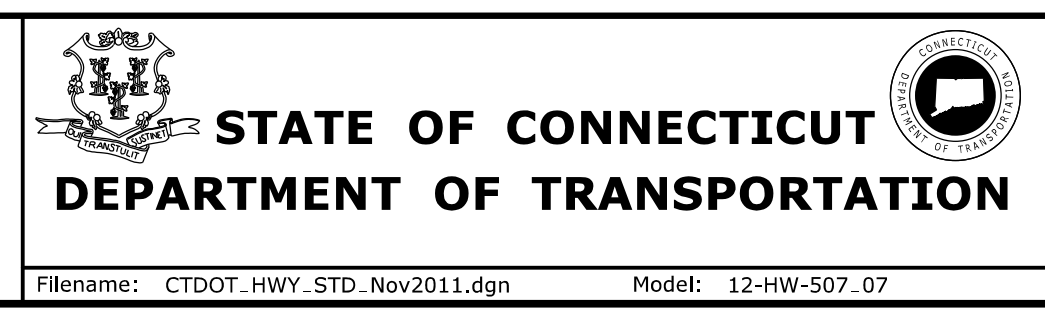
ALTERNATE CONSTRUCTION OF TYPE II TOP

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

REV.	DATE	REVISION DESCRIPTION
2	7/28/11	REMOVE MIN. DROP NOTE
1	6/01/10	REVISE CALL-OUT

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NOT TO SCALE

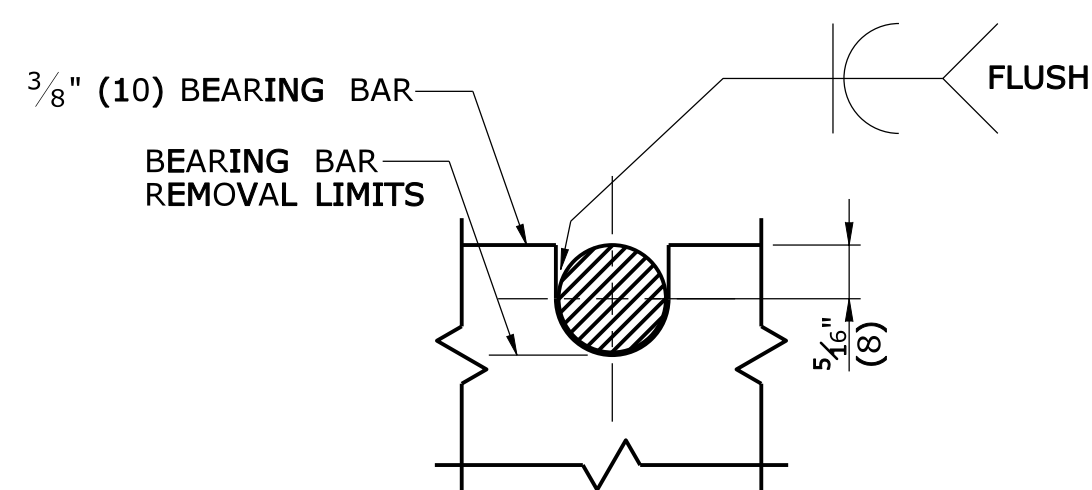


SUBMITTED BY: NAME/DATE/TIME:
APPROVED BY: NAME/DATE/TIME:

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

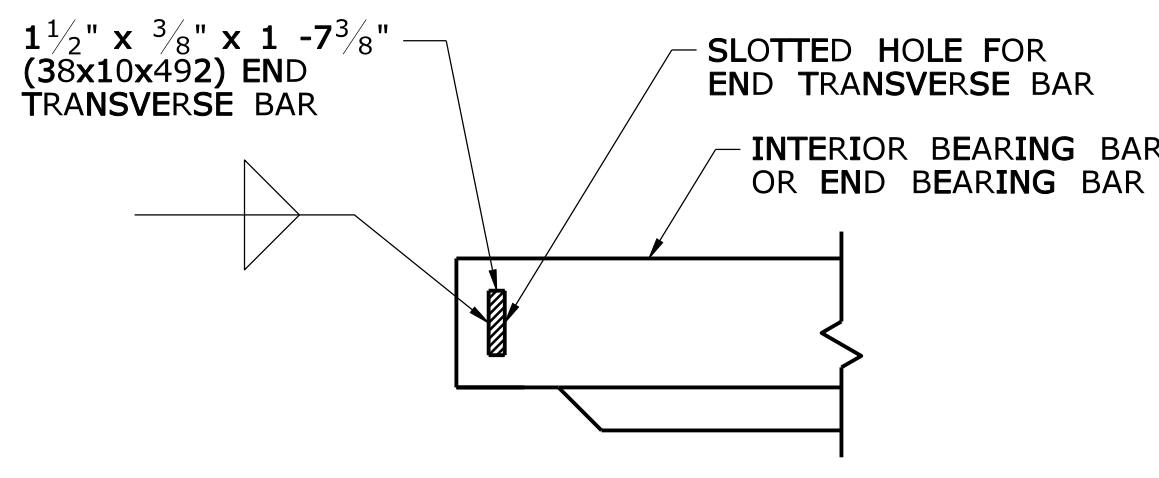
STANDARD SHEET TITLE:
TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS

STANDARD SHEET NO.:
HW-507_07

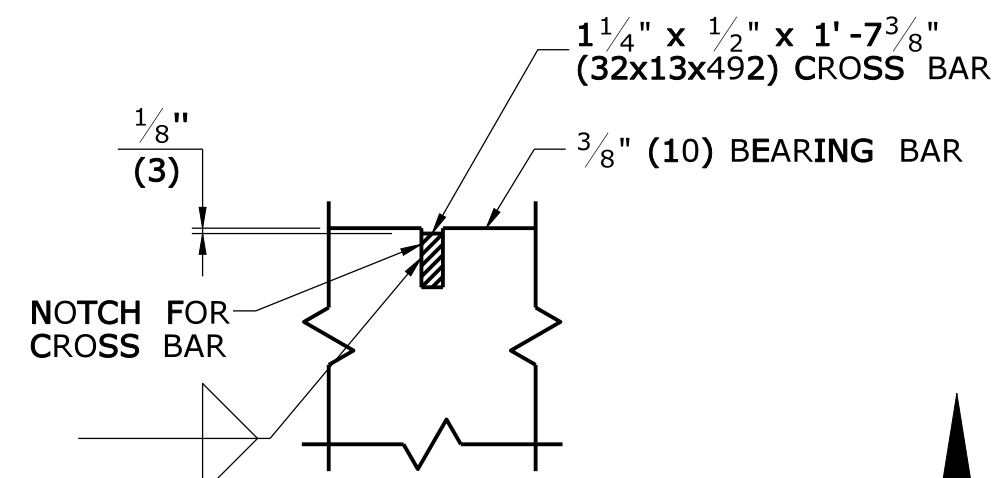


NOTE:
5/8" (16) DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

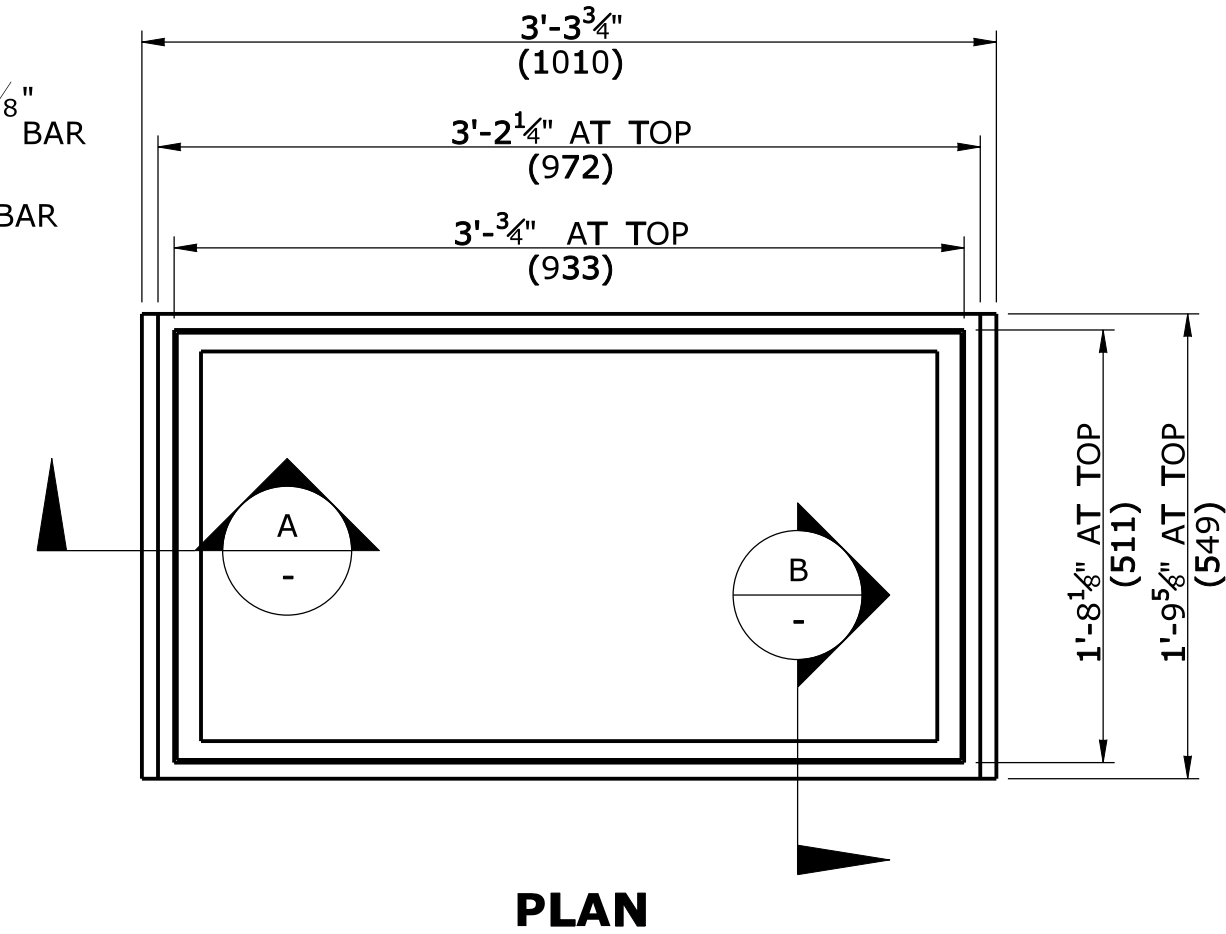
**ROUND BAR ATTACHMENT
CATCH BASIN GRATE TYPE A**



**END TRANSVERSE BAR ATTACHMENT
CATCH BASIN GRATE TYPE A & B**



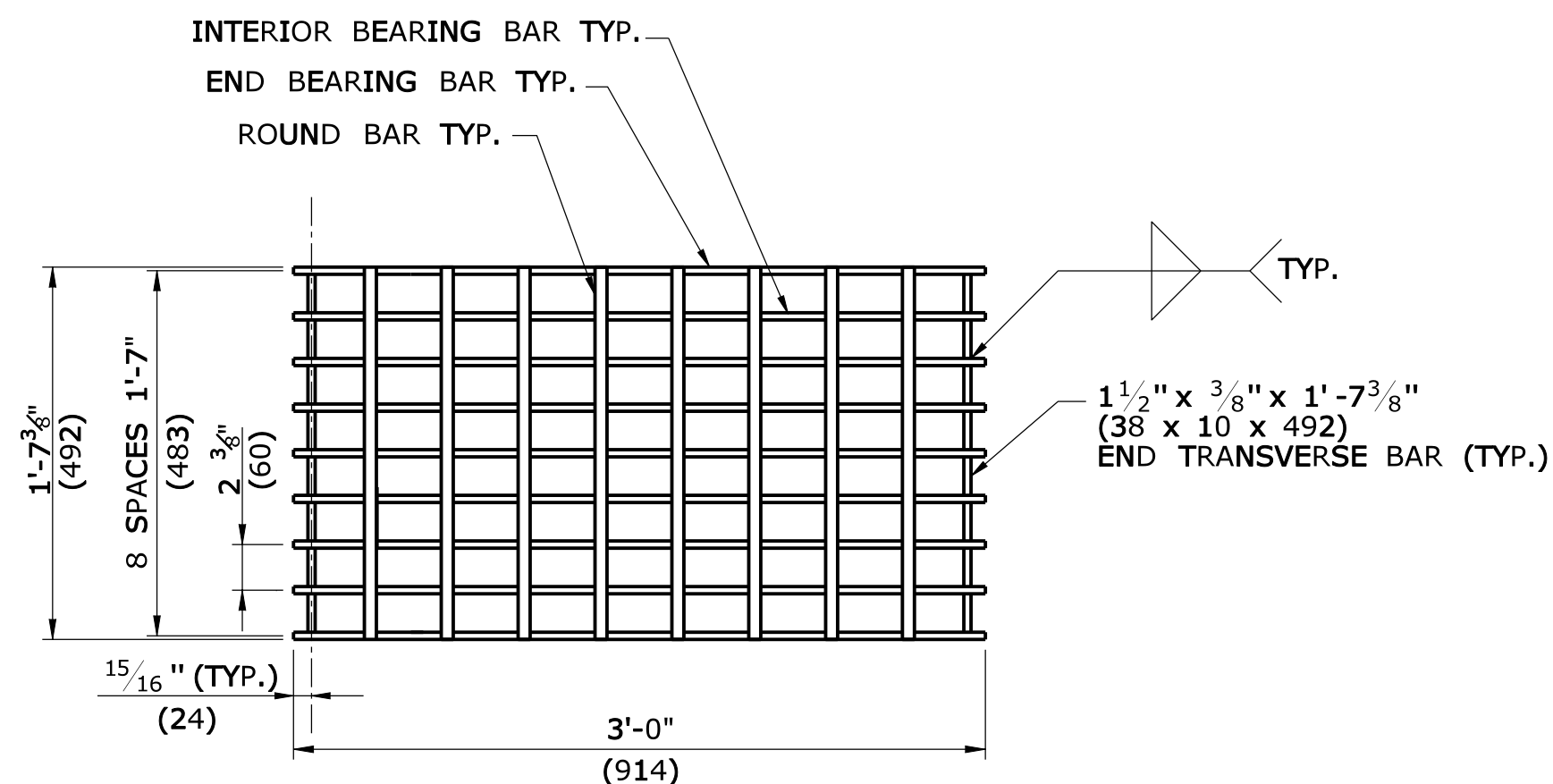
**CROSS BAR ATTACHMENT
CATCH BASIN GRATE TYPE B**



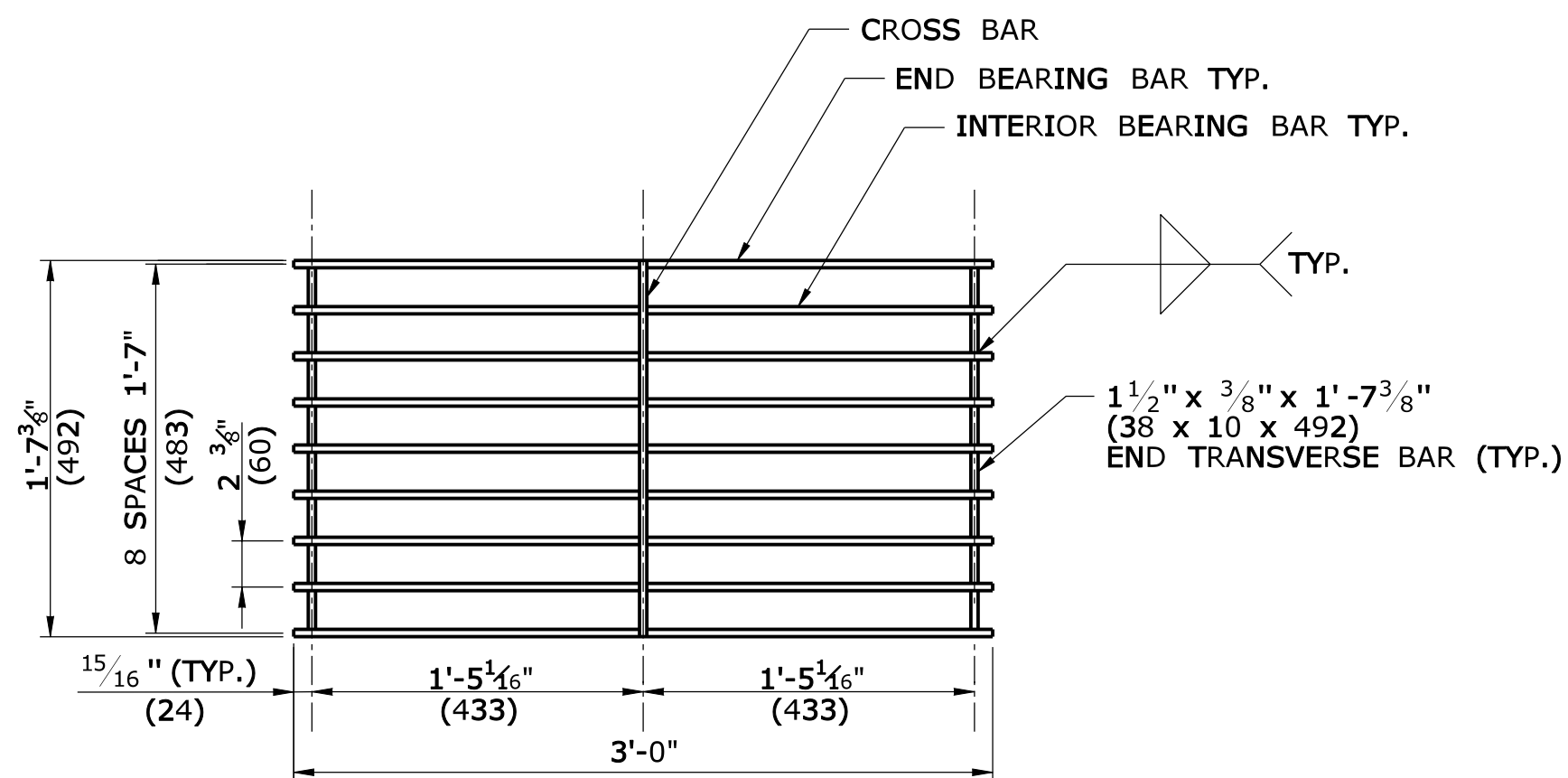
PLAN

GENERAL NOTES:

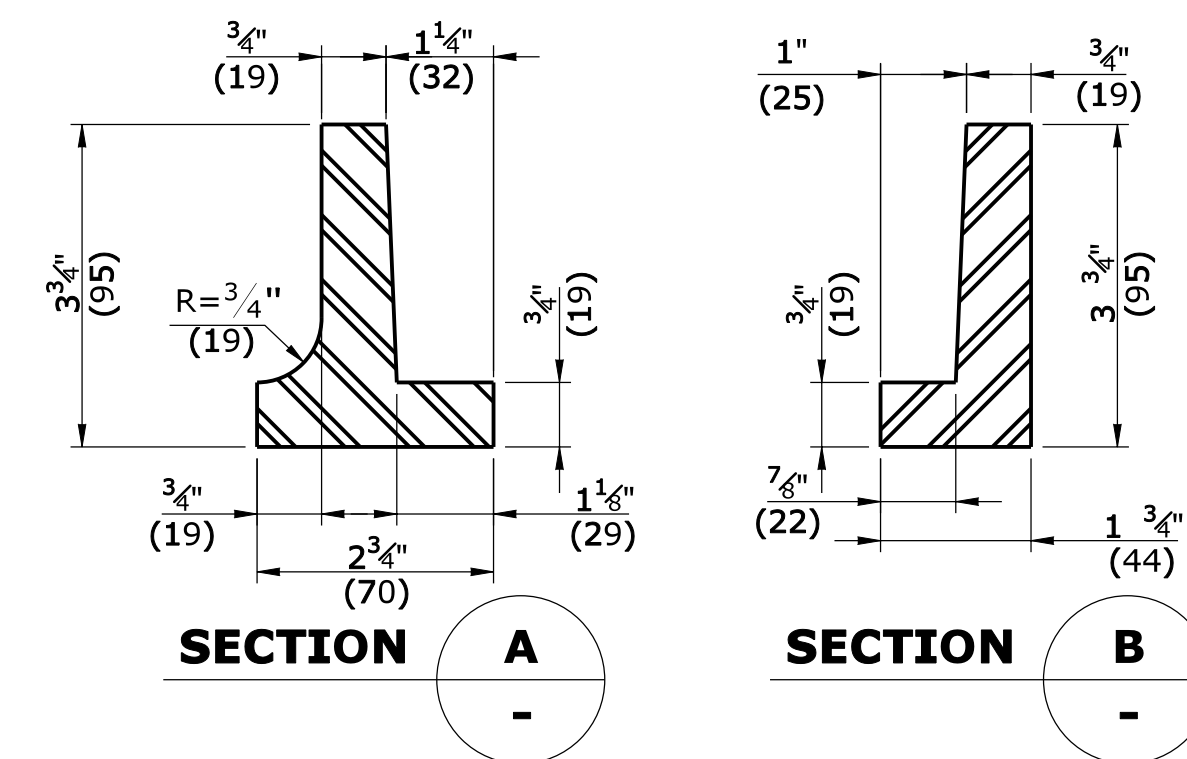
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" & "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR AS DIRECTED BY THE ENGINEER.
3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, RAMPS AND WHERE BICYCLE TRAFFIC IS NOT ALLOWED OR AS DIRECTED BY THE ENGINEER.
4. STEEL FRAMES AND GRATES SHALL BE GALVANIZED IN ACCORDANCE WITH ARTICLE M.06.03.
5. DO NOT GALVANIZE CAST IRON FRAMES.
6. DIMENSIONAL TOLERANCES SHALL BE $\pm 1/16"$ (1.6)
7. ALL STEEL BARS SHALL BE WELDED AT ALL INTERSECTIONS.
8. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS STRUCTURAL WELDING CODE, D1.1.



PLAN



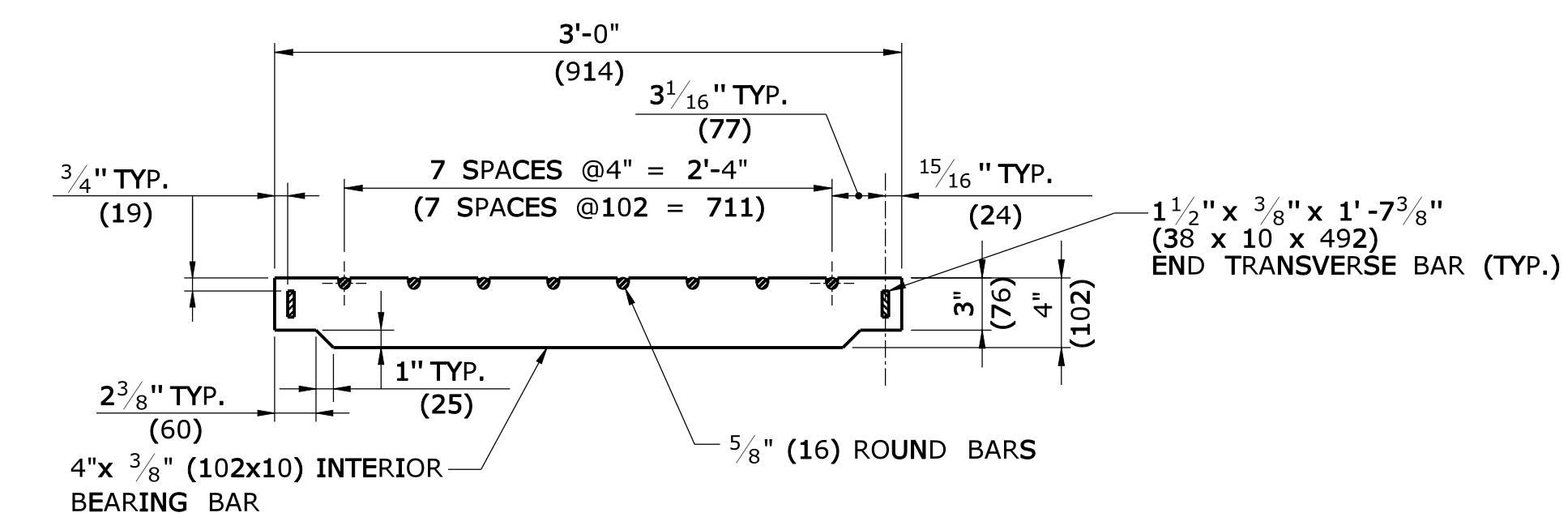
PLAN



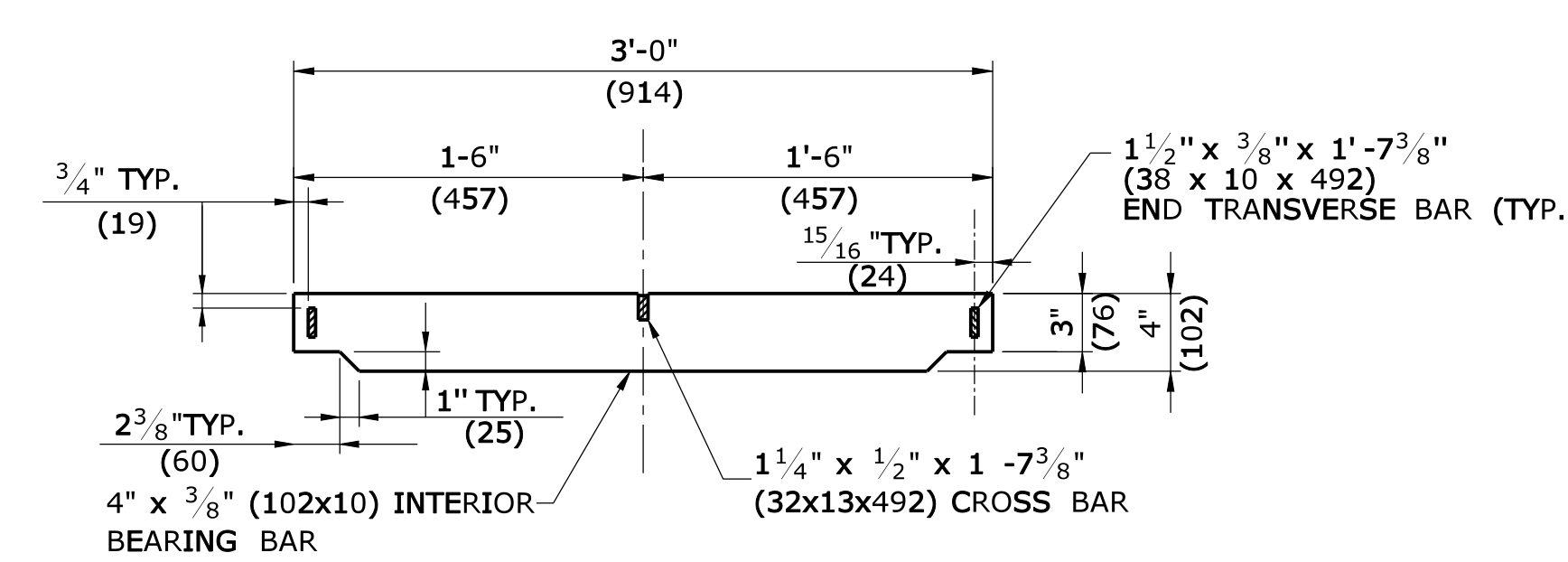
SECTION A

SECTION B

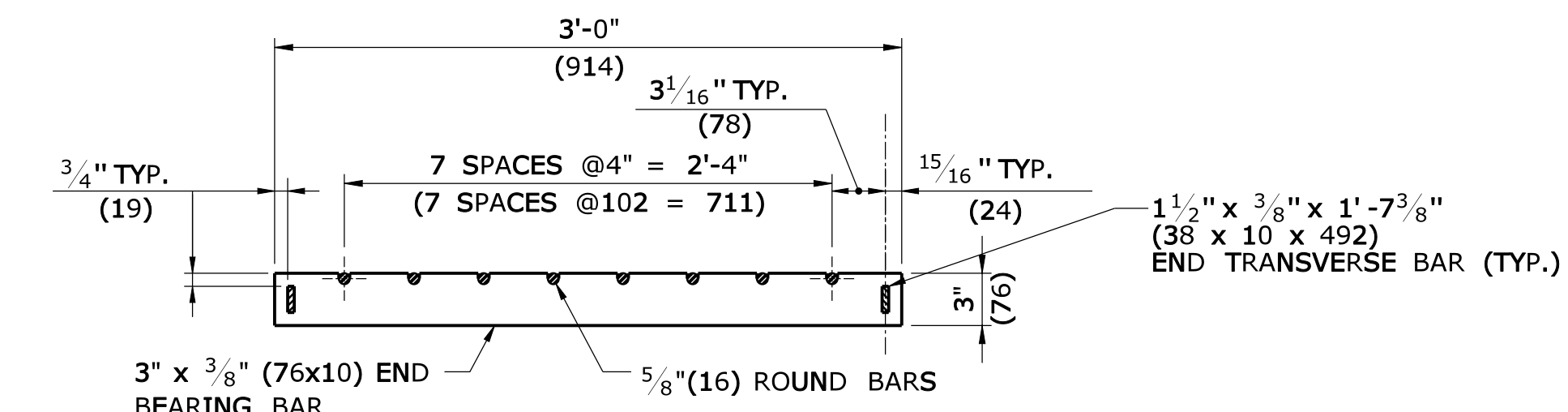
CAST IRON FRAME ALTERNATE



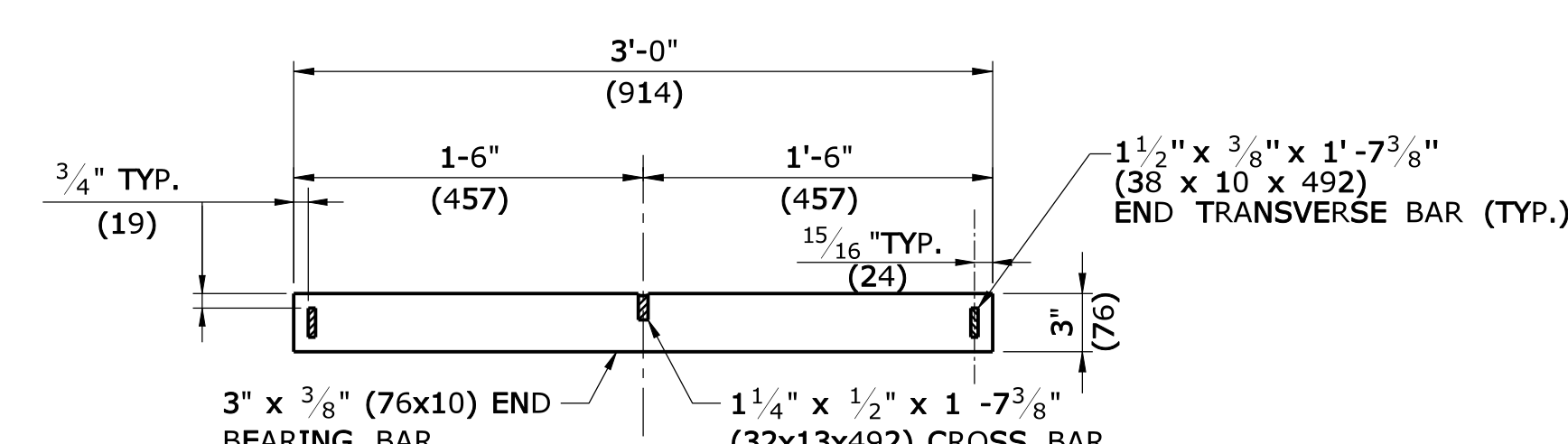
ELEVATION- INTERIOR BEARING BAR



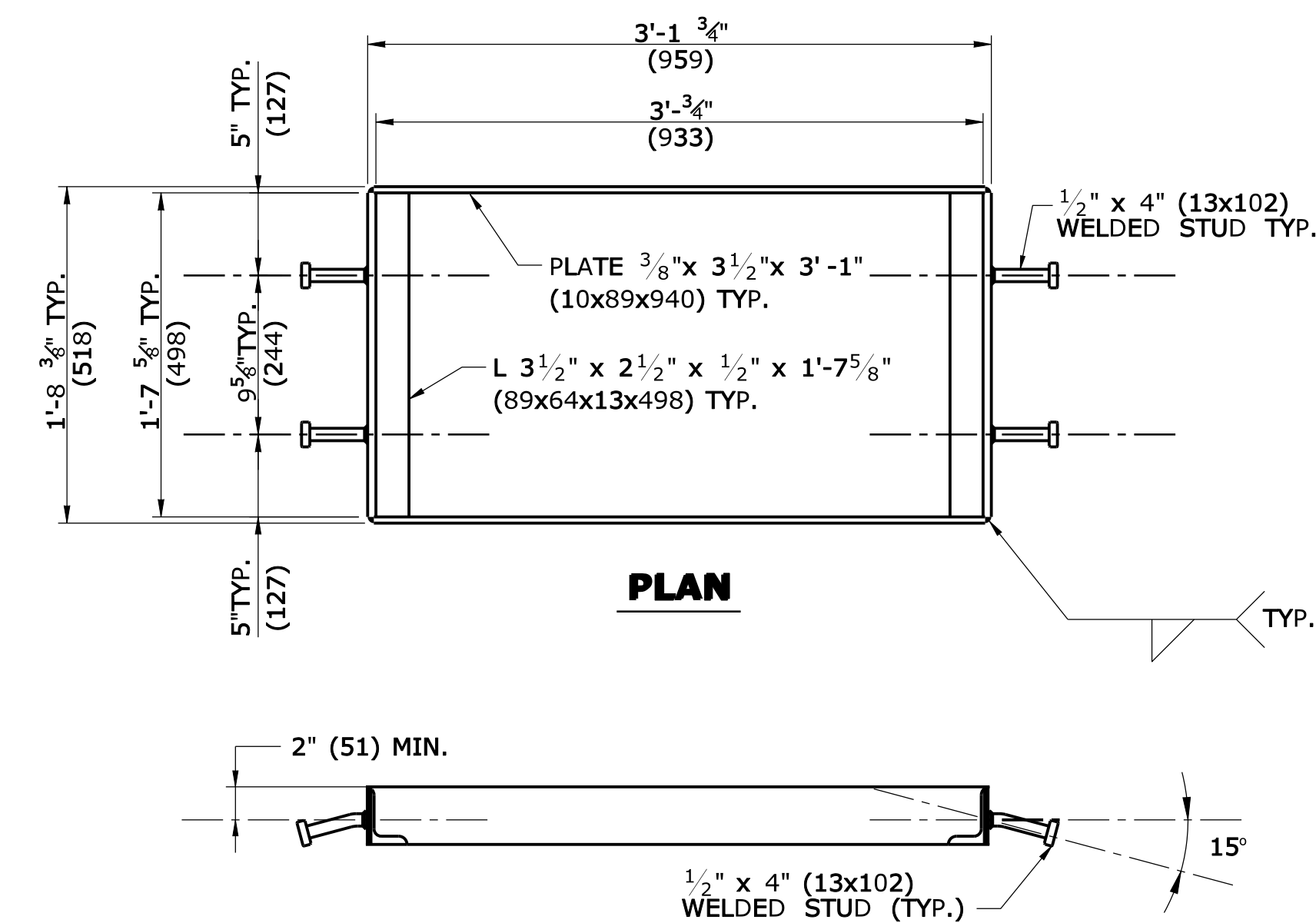
ELEVATION- INTERIOR BEARING BAR



**ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE A**



**ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE B**



**WELDED STUD ANCHOR DETAILS
STEEL FRAME**

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

REV.	DATE	REVISION DESCRIPTION

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Plotted Date: 9/11/2009

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

File Name: CTDOT_HIGHWAY_STD.dgn Model: HW-507_08

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

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

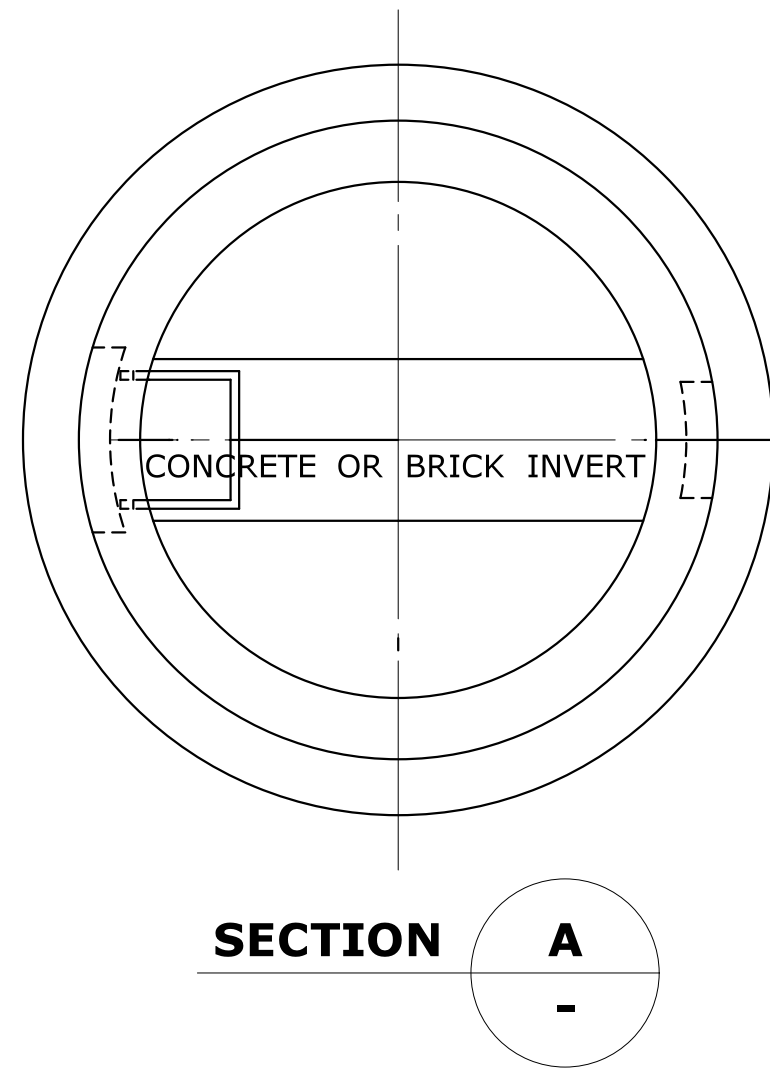
STANDARD SHEET TITLE:
CATCH BASIN FRAMES AND GRATES

STANDARD SHEET NO.:
HW-507_08

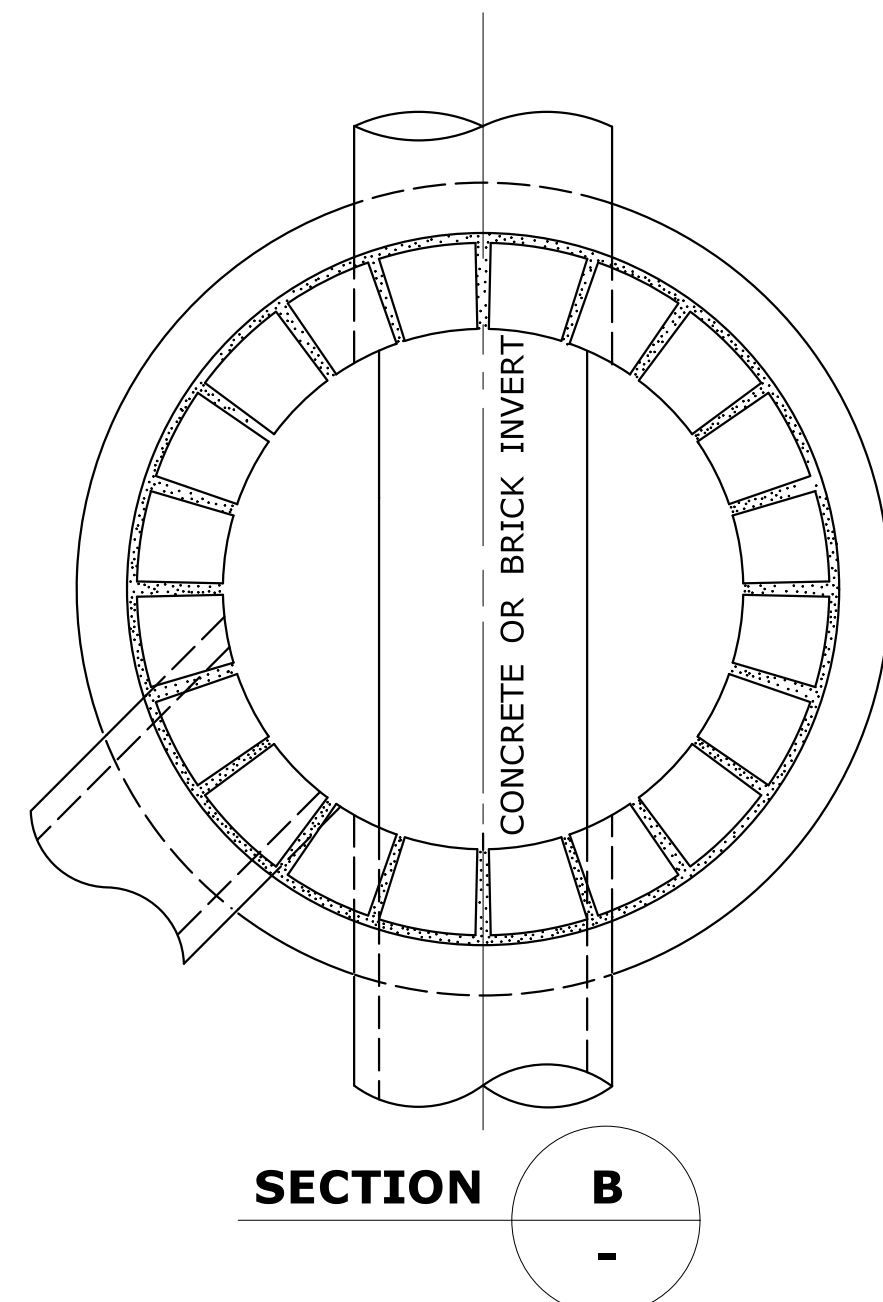
GENERAL NOTES:

1. CHANNELS MAY BE SHAPED IN CONCRETE BASE OF MANHOLE OR FORMED USING BRICK OR MASONRY.
2. A FRAME DIAMETER OF 3'-3" (991) WITH 4" (102) FLANGE MUST BE USED WHEN THE TOP DIAMETER OF THE PRECAST CONE IS LESS THAN 3'-6" (1067). ALL OTHER FRAME DIMENSIONS SHALL REMAIN THE SAME.
3. COVER:

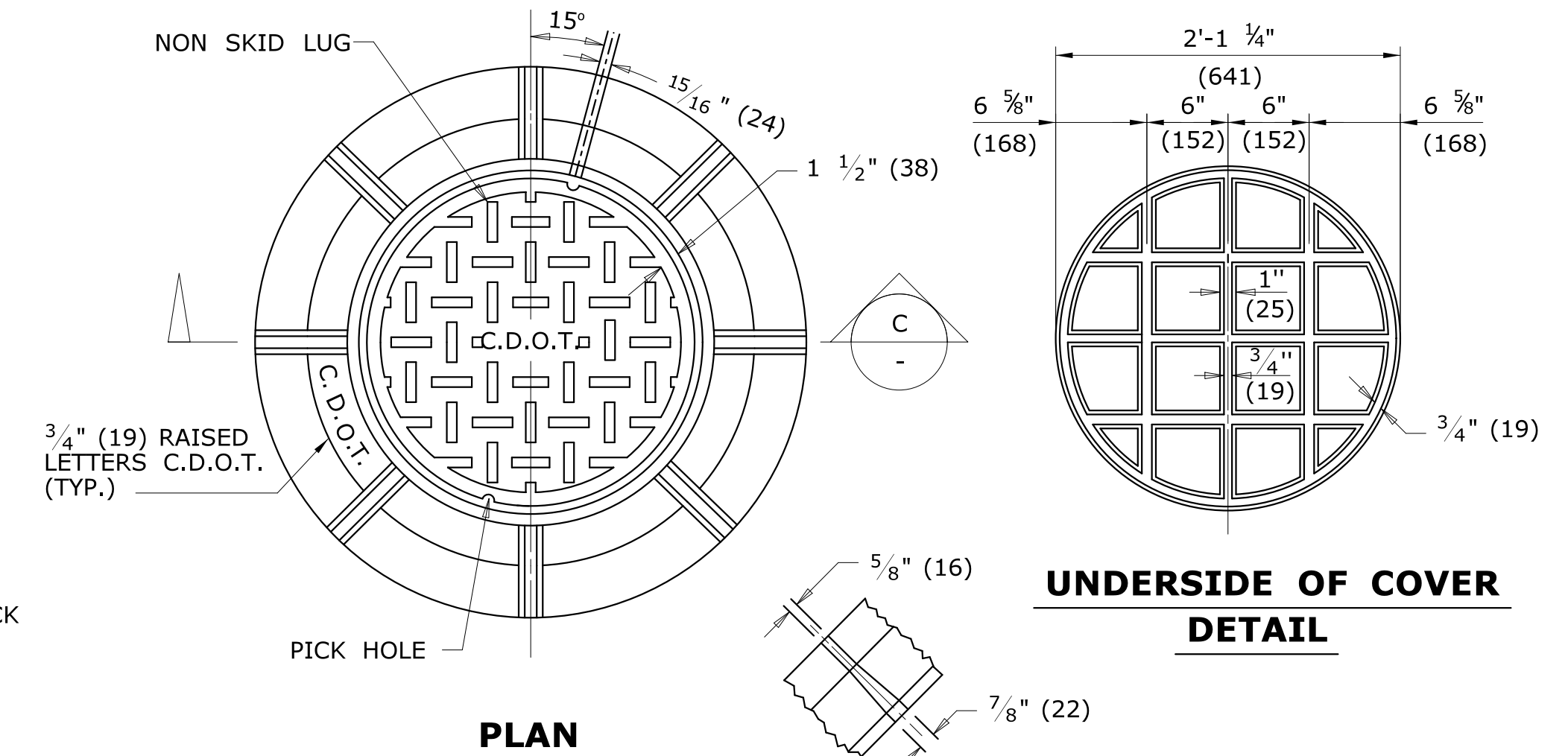
	CAST IRON	STEEL
MIN. COVER WEIGHT	134LB.(61kg)	134LB.(61kg)
4. ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.



SECTION A

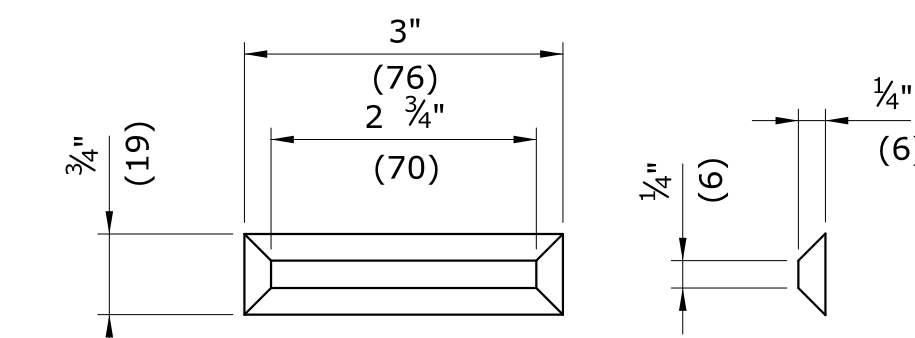


SECTION B

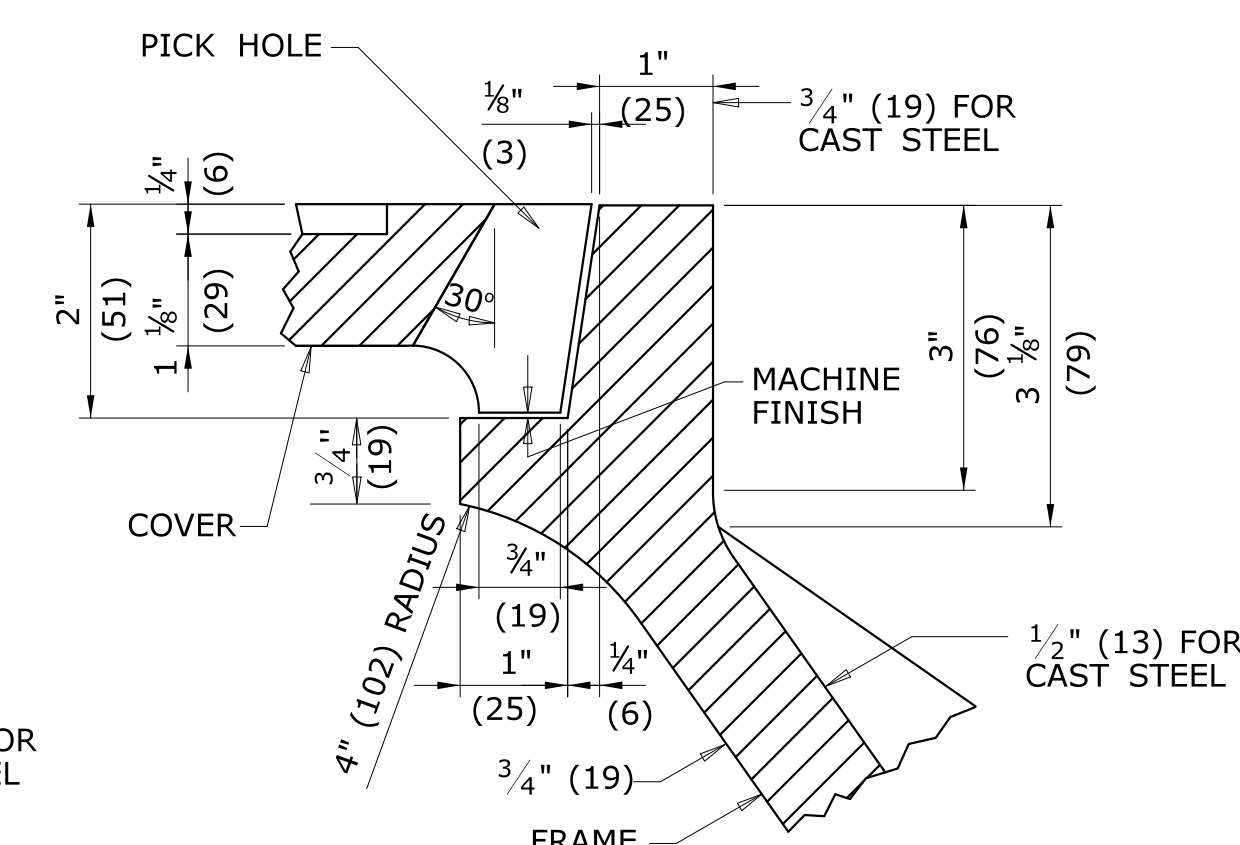


PLAN

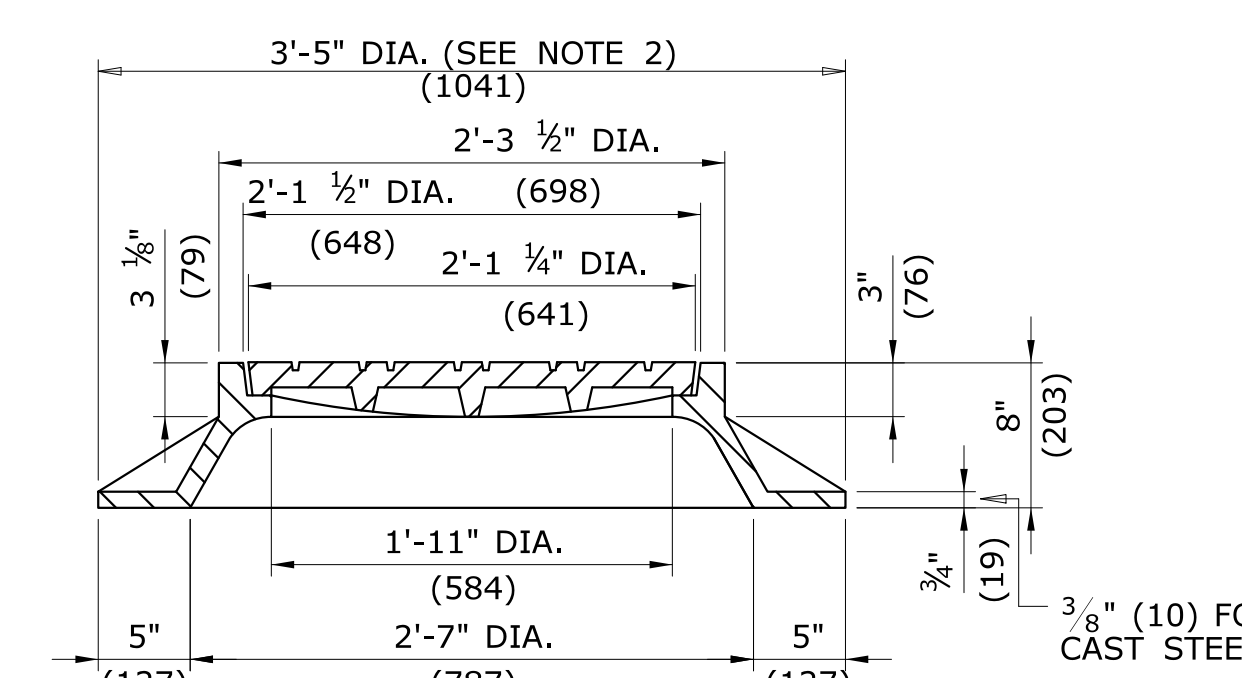
UNDERSIDE OF COVER DETAIL



NON SKID LUG DETAIL

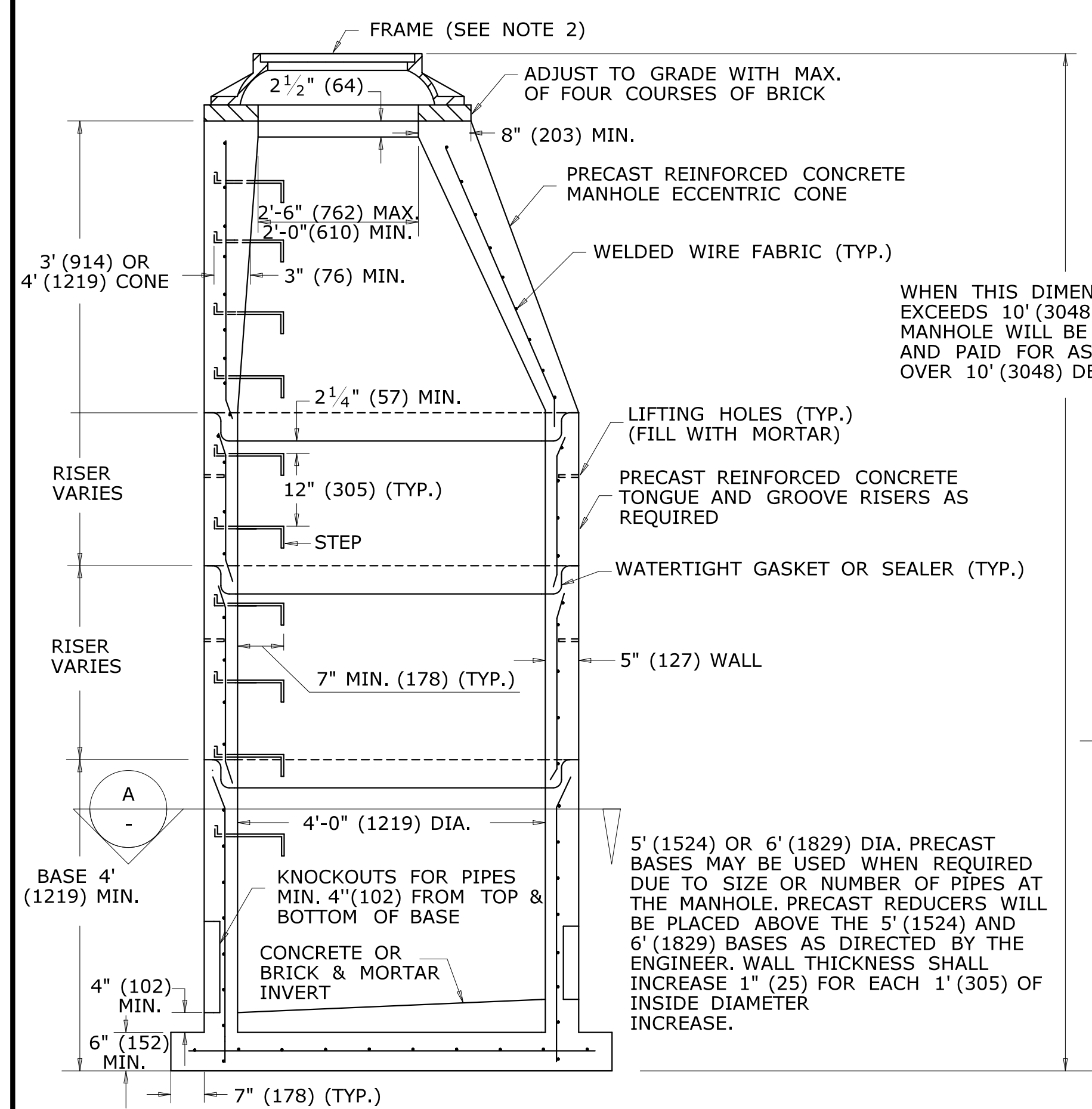


DETAIL OF SEAT



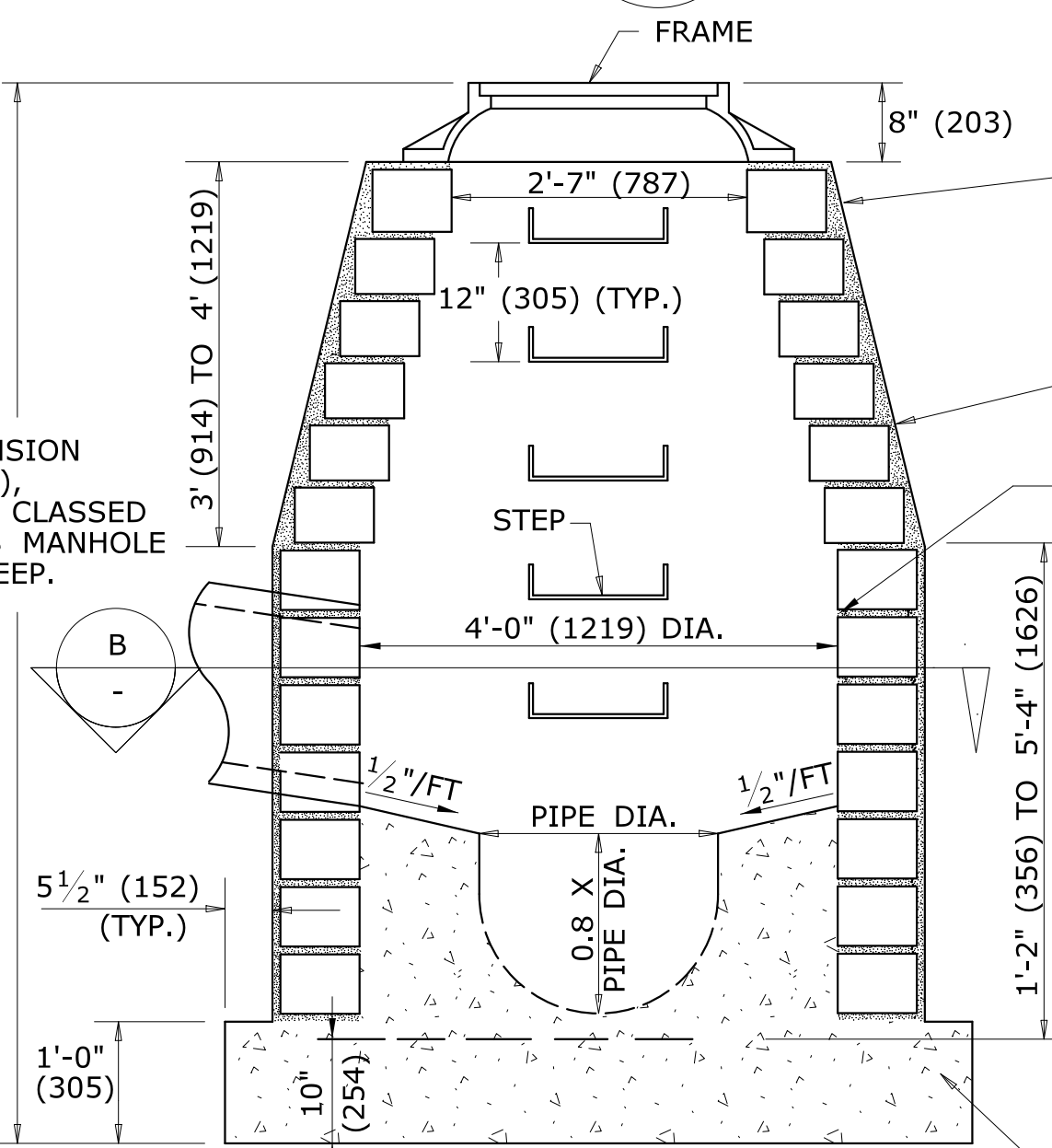
SECTION C

FRAME AND COVER DETAILS



ELEVATION MANHOLE

REINFORCED PRECAST CONCRETE UNIT



ELEVATION MANHOLE

MASONRY CONCRETE UNIT OR CLASS "A" CONCRETE

WALL SHALL BE A MIN. OF 6"(152) WITH MASONRY CONCRETE UNITS, CLASS "A" CONCRETE WALL SHALL BE 12"(300) THICK WHEN DEPTH OF MANHOLE IS GREATER THAN 10'(3048) DEEP.

MASONRY WALLS SHALL BE PLASTERED OUTSIDE WITH 2:1 CEMENT MORTAR 1/2"(13) THICK. MASONRY MUST BE WET WHEN MORTAR IS APPLIED.

ALL JOINTS SHALL BE POINTED FLUSH AND FULL

WALLS SHALL BE BUILT OF MASONRY CONCRETE UNITS OR CLASS "A" CONCRETE AT THE OPTION OF THE CONTRACTOR.

MASONRY CONCRETE UNITS SHALL BE LAID IN CEMENT SAND MORTAR 1:2 MIX, JOINTS SHALL NOT BE OVER 1/2"(13) ON INSIDE FACE

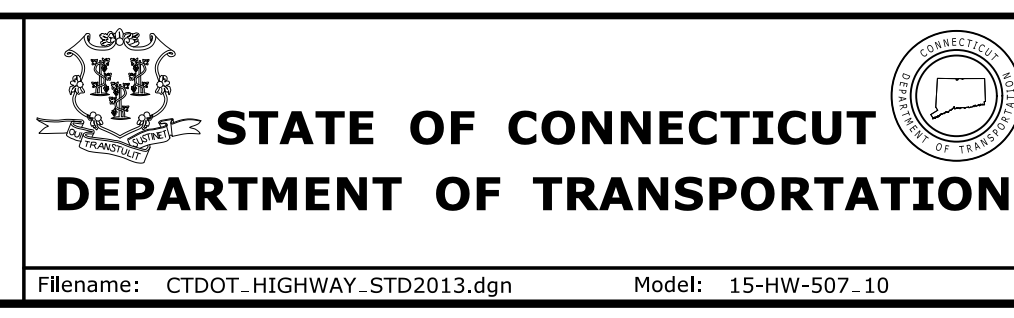
WHEN THIS DIMENSION EXCEEDS 10' (3048), MANHOLE WILL BE CLASSED AND PAID FOR AS MANHOLE OVER 10' (3048) DEEP.

5' (1524) OR 6' (1829) DIA. PRECAST BASES MAY BE USED WHEN REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' (1524) AND 6' (1829) BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESS SHALL INCREASE 1" (25) FOR EACH 1' (305) OF INSIDE DIAMETER INCREASE.

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

1	6/11	REVISE STEP WIDTH PER OSHA
2	7/13	REVISE COVER FRAME WEIGHT
-	-	-
-	-	-
-	-	-
-	-	-
REV.	DATE	REVISION DESCRIPTION

NOT TO SCALE



SUBMITTED BY: _____ NAME/DATE/TIME: _____

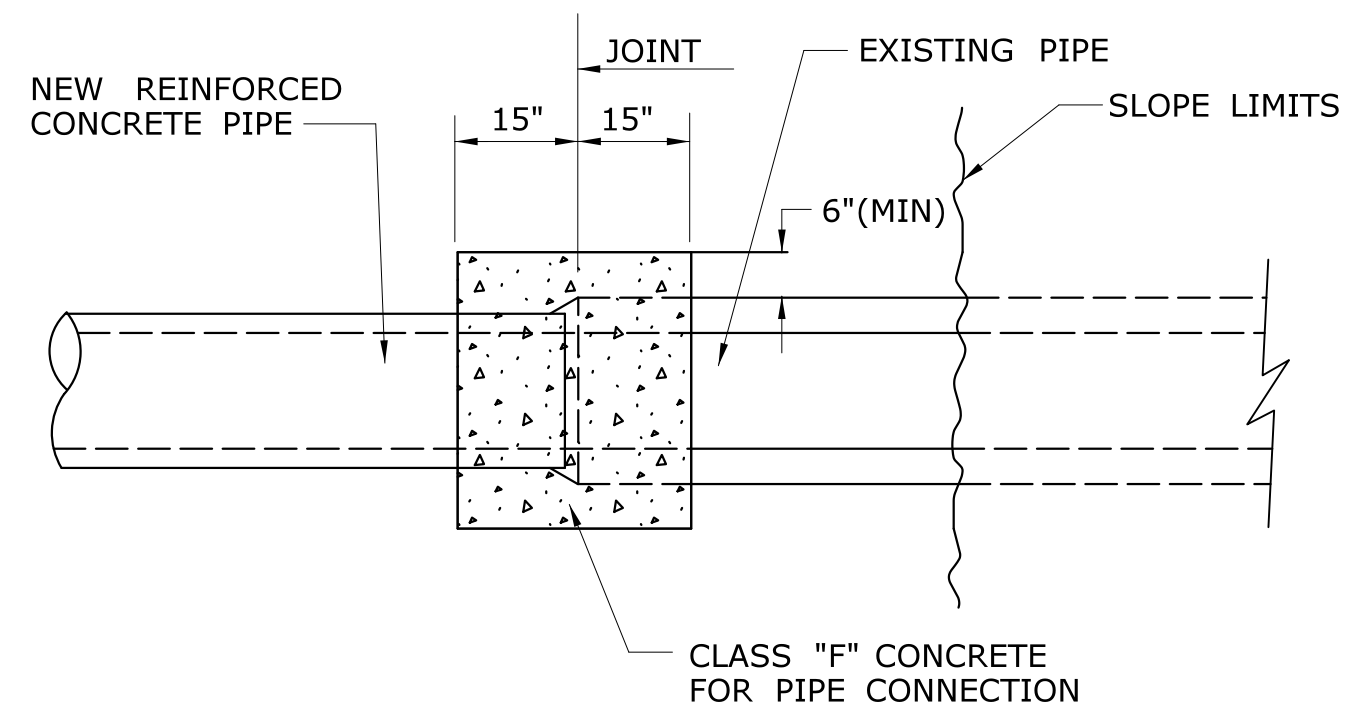
APPROVED BY: _____ NAME/DATE/TIME: _____

CTDOT STANDARD SHEET

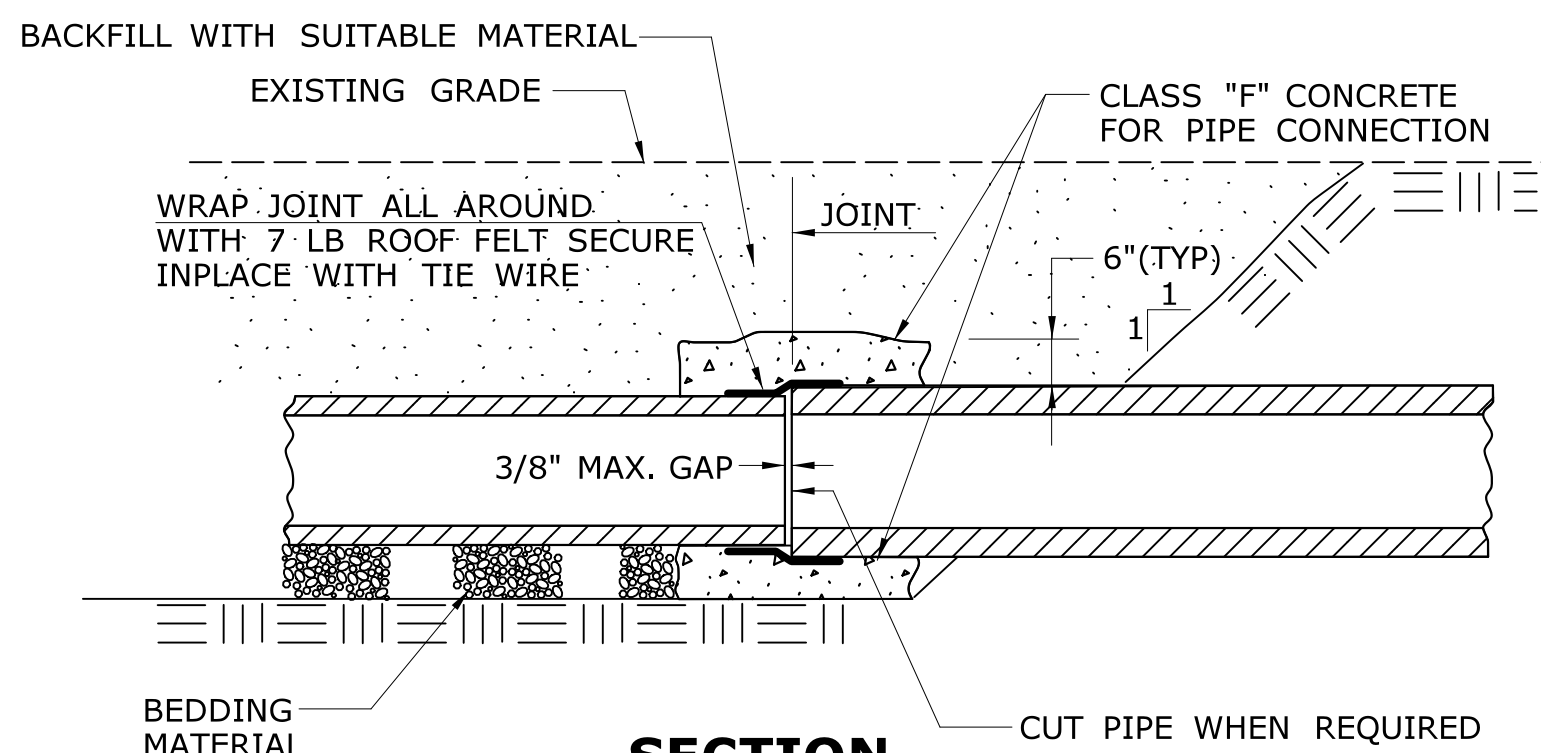
OFFICE OF ENGINEERING

STANDARD SHEET TITLE: **MANHOLE - FRAME & COVER**

STANDARD SHEET NO.: **HW-507_10**



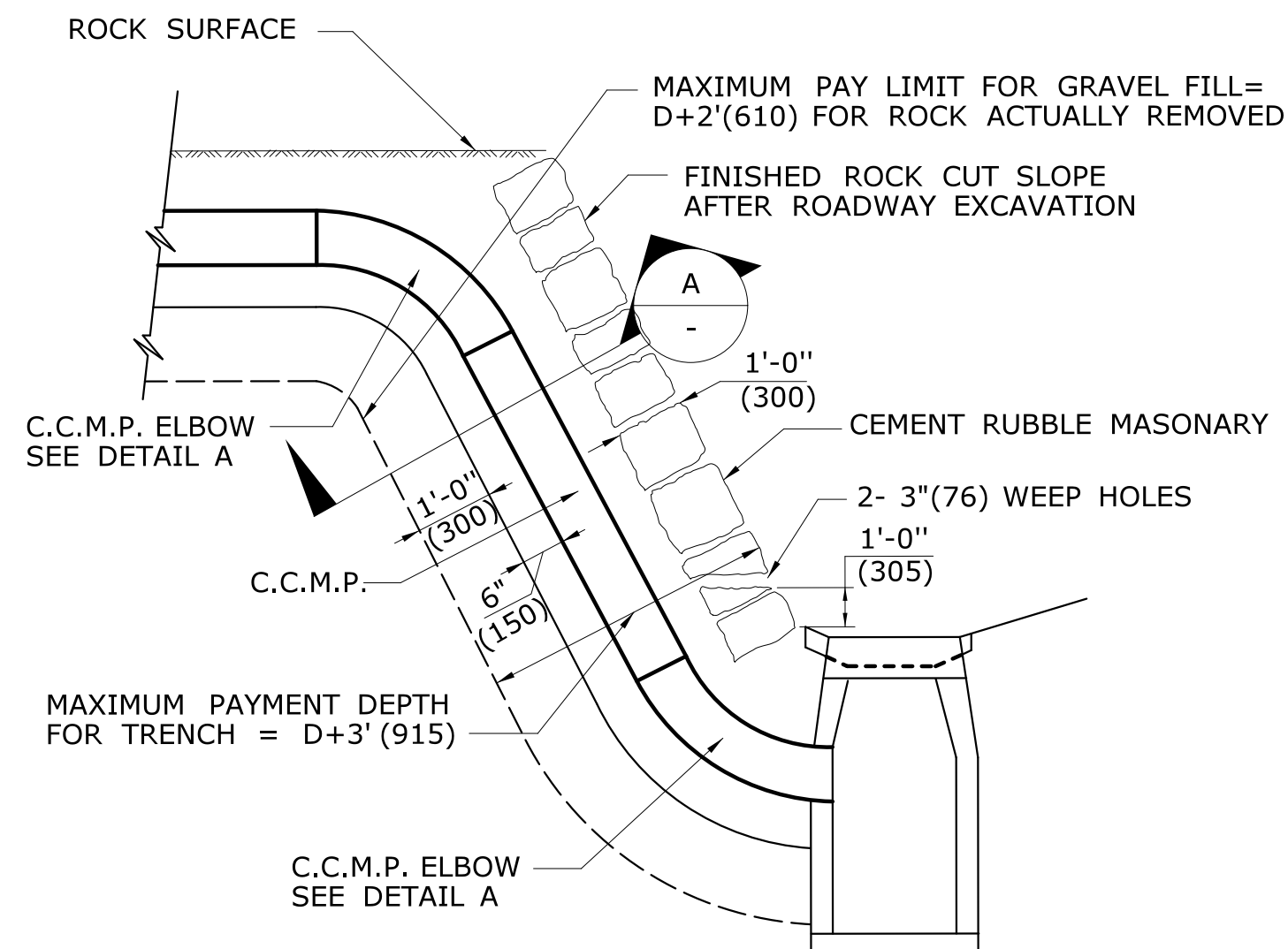
PLAN



**SECTION
CONCRETE PIPE CONNECTION**

NOTES:

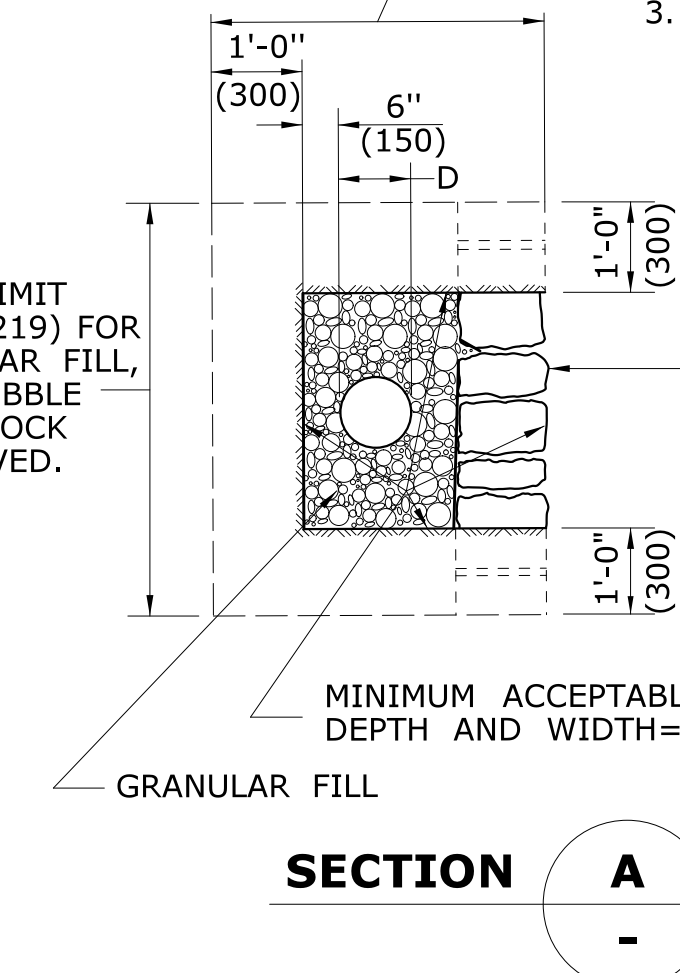
1. "CONCRETE PIPE CONNECTION" IS INTENDED FOR USE WHERE A REINFORCED CONCRETE PIPE REPAIR OR MODIFICATION IS NEEDED SOMEWHERE WITHIN A PIPE RUN WHERE A BELL/SPIGOT JOINT CANNOT BE ACHIEVED.
2. MAINTAIN INTERIOR ALIGNMENT OF PIPE AT JOINTS UNTIL CONCRETE IS PROPERLY CURED.
3. BACKFILL OF PIPE REPAIR WITH SUITABLE MATERIAL MAY NOT TAKE PLACE UNTIL CONCRETE IS PROPERLY CURED.
4. CONTRACTOR SHALL MAINTAIN LINE AND GRADE OF PIPE REPAIR OR MODIFICATION BY METHODS APPROVED BY THE ENGINEER.
5. HOLES OR GAPS AT JOINT LARGER THAN 3/8" SHALL BE FILLED OR WRAPPED TO PREVENT CONCRETE FROM ENTERING PIPE.
6. TRENCH EXCAVATION SHALL BE TO THE MAXIMUM EXTENT NEEDED TO PERFORM WORK.



TYPICAL INSTALLATION OF C.C.M.P. IN ROCK SLOPE

MAXIMUM PAY LIMIT DEPTH FOR TRENCH = $D+3'(915)$. MAXIMUM PAY LIMIT FOR GRAVEL FILL = $D+2'(610)$ FOR ROCK ACTUALLY REMOVED.

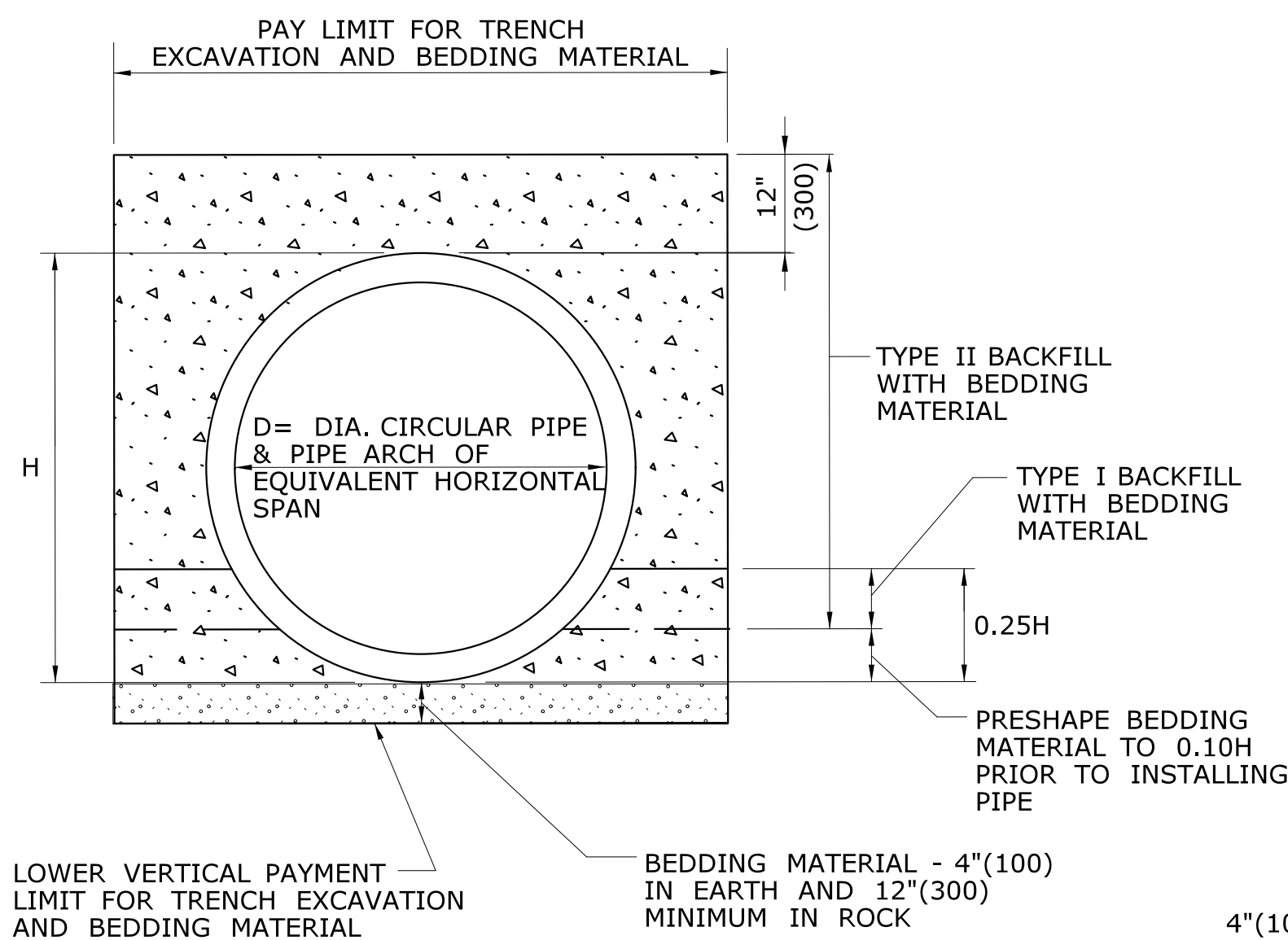
MAXIMUM PAY LIMIT WIDTH = $D+4'(1219)$ FOR TRENCH, GRANULAR FILL, AND CEMENT RUBBLE MASONRY FOR ROCK ACTUALLY REMOVED.



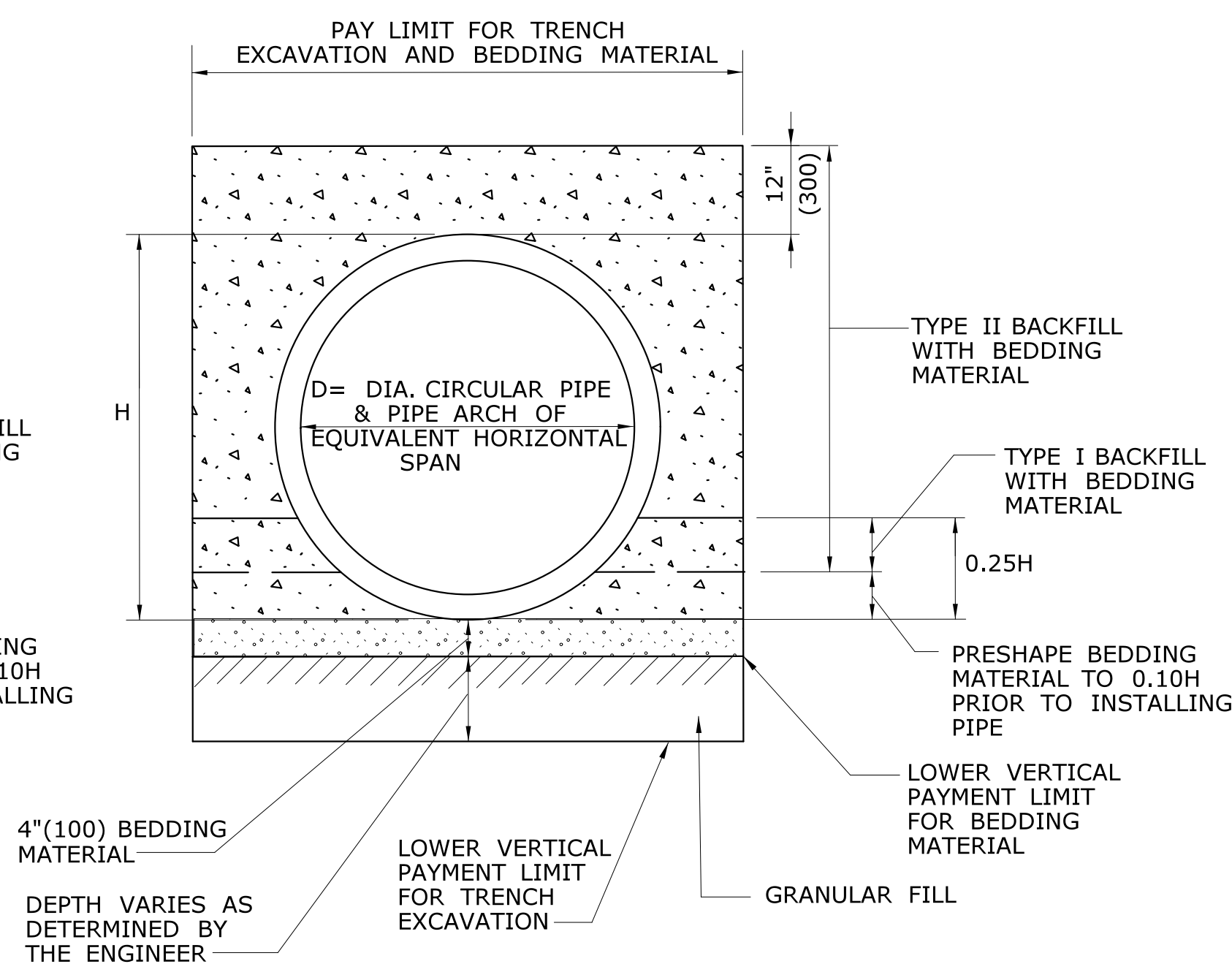
SECTION A

GENERAL NOTES:

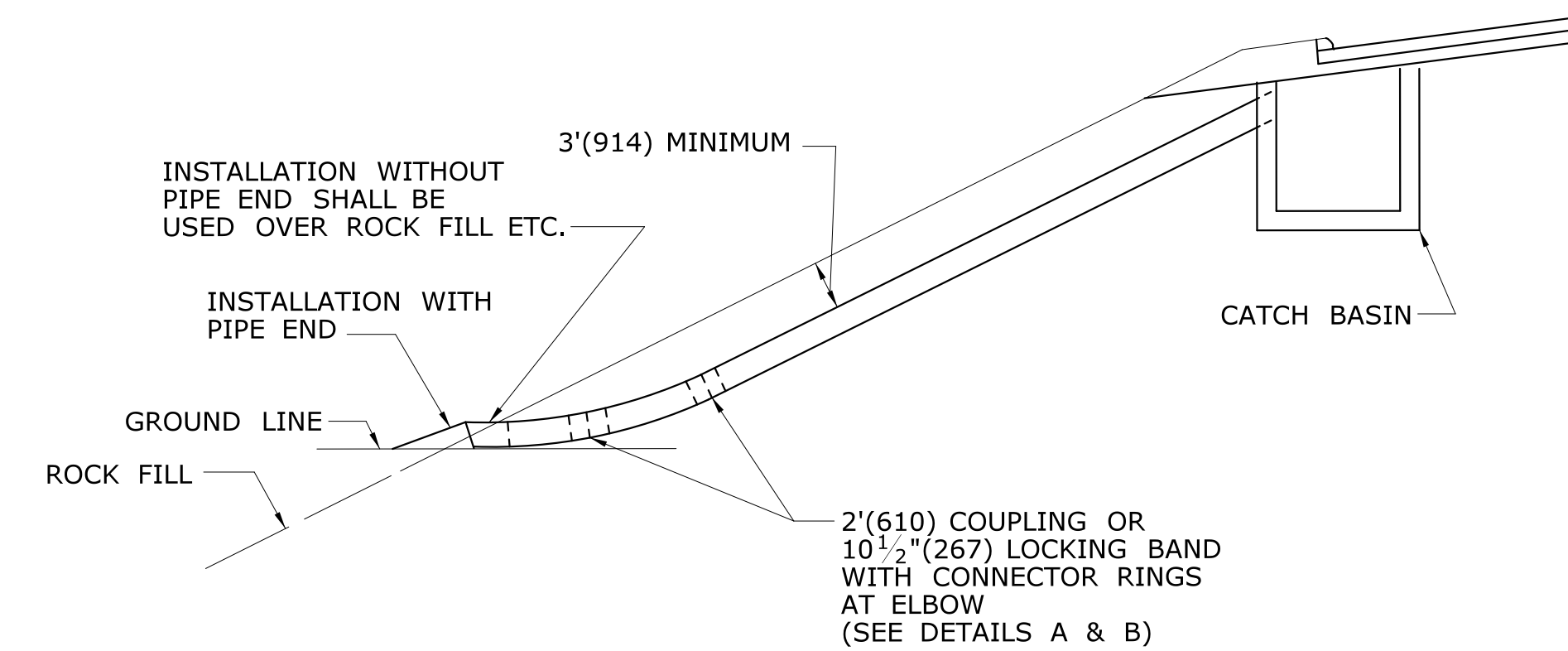
1. ROCK REMOVED BEYOND THE MAXIMUM PAY LIMIT SHOWN SHALL BE REPLACED WITH CEMENT RUBBLE MASONRY AND GRANULAR FILL.
2. FILL, AS REQUIRED TO CLOSE THE OPENING AS SHOWN ON THE PLANS, WILL BE AT THE CONTRACTORS EXPENSE. HOWEVER, THE PAY LIMIT LINES MAY BE MODIFIED TO COINCIDE WITH NATURAL FAULTS OR FISSURES OF ROCK AS THE ENGINEER MAY DETERMINE.
3. COATED CORRUGATED METAL PIPE (C.C.M.P.)



**PIPE TRENCH DETAIL
WHERE GRANULAR FILL IS NOT USED**



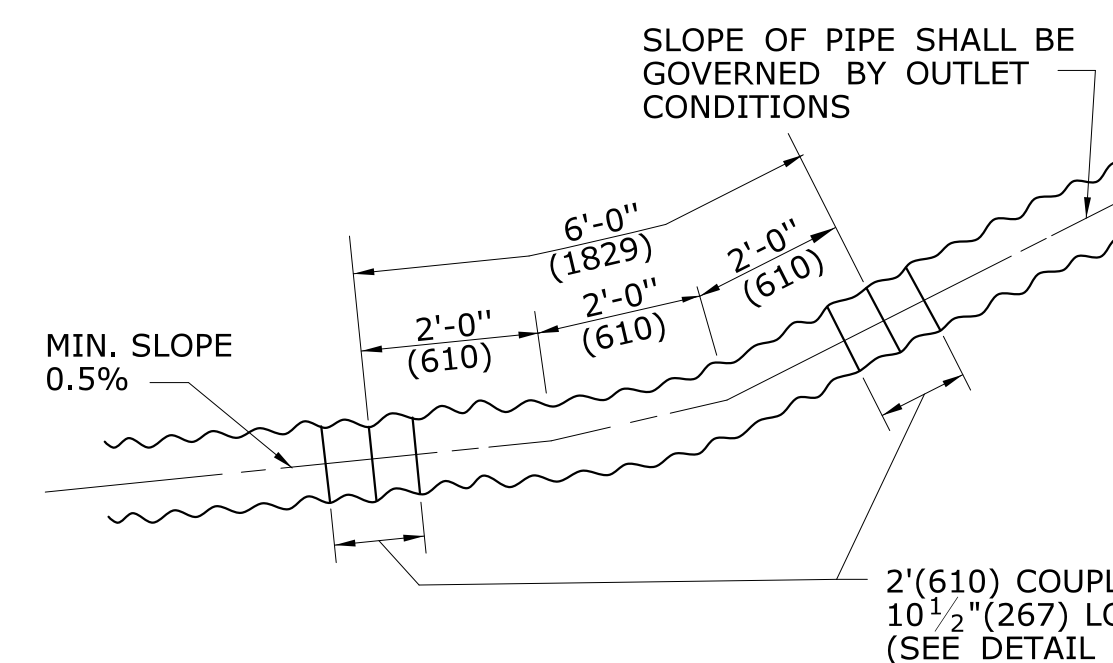
**PIPE TRENCH DETAIL
WHERE GRANULAR FILL IS USED AS BEDDING**



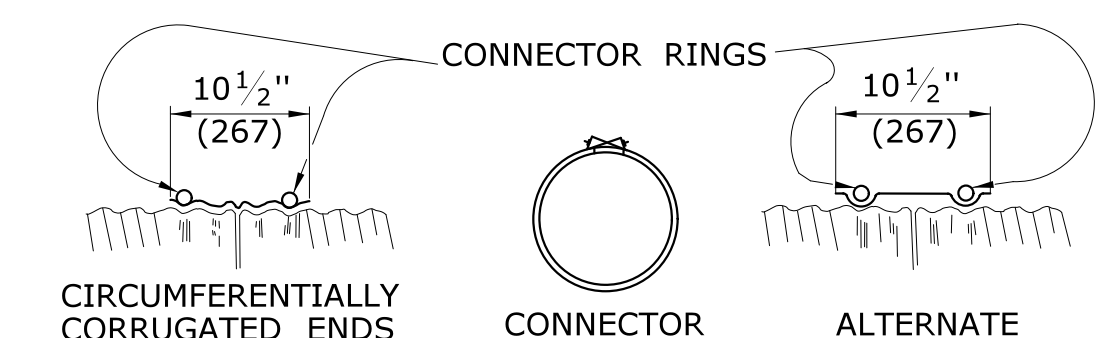
TYPICAL INSTALLATION OF C.C.M.P. ELBOW IN FILL SLOPE

**TABLE C
CONNECTOR RINGS**

PIPE DIAMETER	LENGTH OF RING
12" (300)	52" (1321)
15" (381)	61" (1549)
18" (457)	71" (1803)
21" (533)	80" (2032)
24" (610)	90" (2286)
30" (762)	108" (2743)
36" (915)	128" (3251)
42" (1066)	147" (3734)
48" (1219)	166" (4216)



**DETAIL A
C.C.M.P. ELBOW AND COUPLING**



**DETAIL B
ELBOW DIMENSIONS**

RODS: 7/16" (11) DIAMETER ELECTRO-GALVANIZED WITH 6" (152) LENGTH OF 1/2" (13) ROLLED THREADS EACH END, FURNISHED CURVED, TO FIT PIPE. SEE TABLE C

LUGS: DOUBLE TAKE UP, CAST IRON, ELECTRO-GALVANIZED.

NOTE: THE COUPLER FASTENING DEVICE SHALL NOT INTERFERE WITH INSTALLATION OF CONNECTOR RINGS.

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

REV.	DATE	REVISION DESCRIPTION
3	7/13	ADD CONCRETE PIPE CONNECTION DETAIL
2	6/01/10	REVISE TITLE TO SAY TRENCH DETAIL
1	6/01/10	REMOVE GRAVEL, REPLACE W/ GRANULAR

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Plotted Date: 6/13/2013

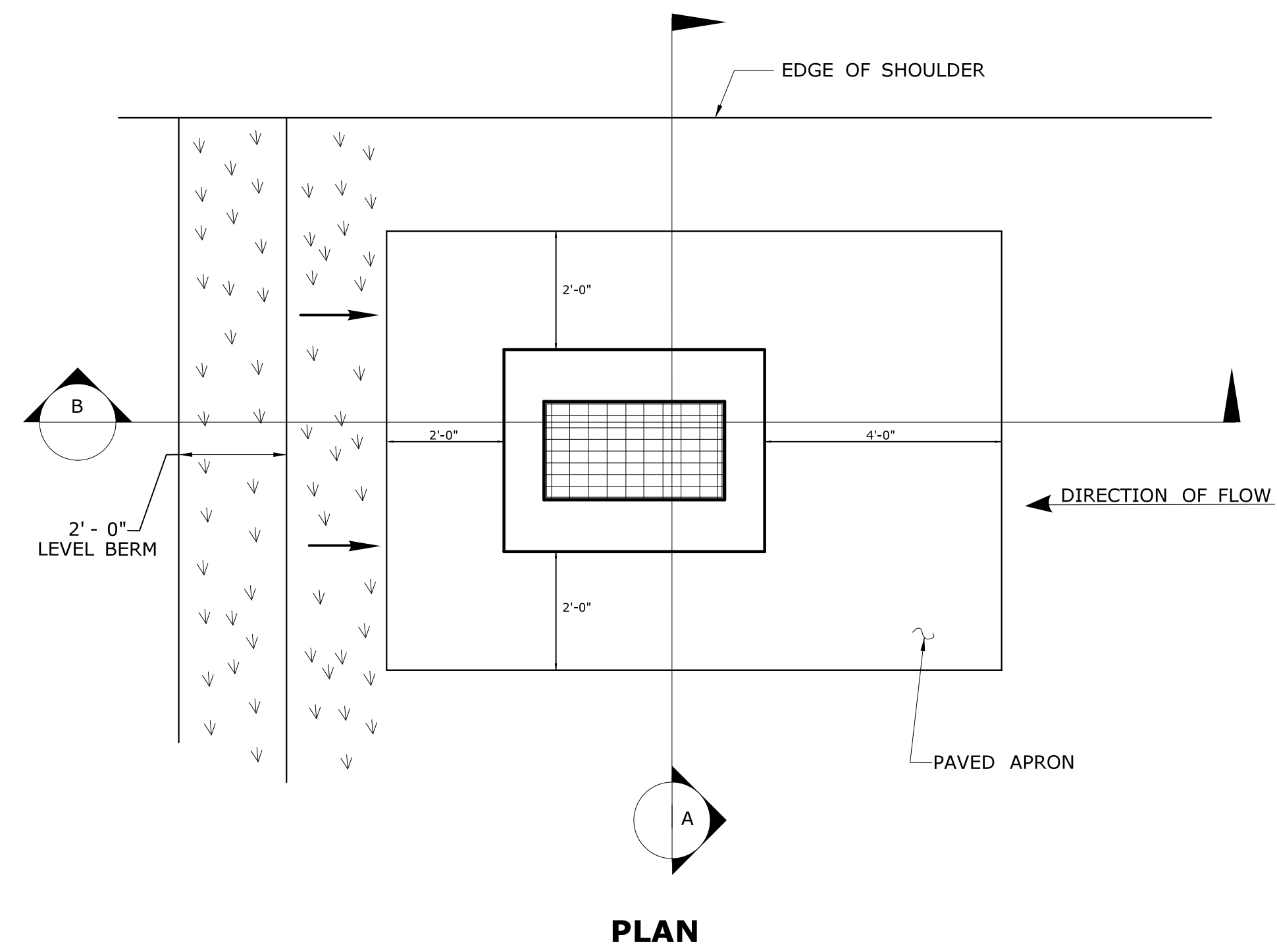
SUBMITTED BY: _____ NAME/DATE/TIME: _____

APPROVED BY: _____ NAME/DATE/TIME: _____

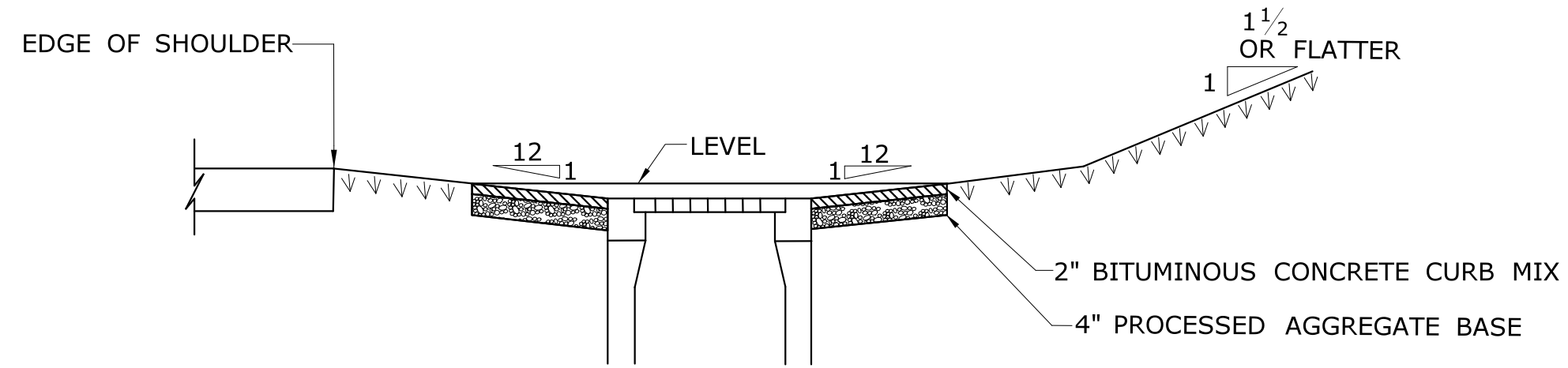
CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
C.C.M.P. PIPE INSTALLATIONS IN FILL & ROCK SLOPES & PIPE TRENCH DETAIL

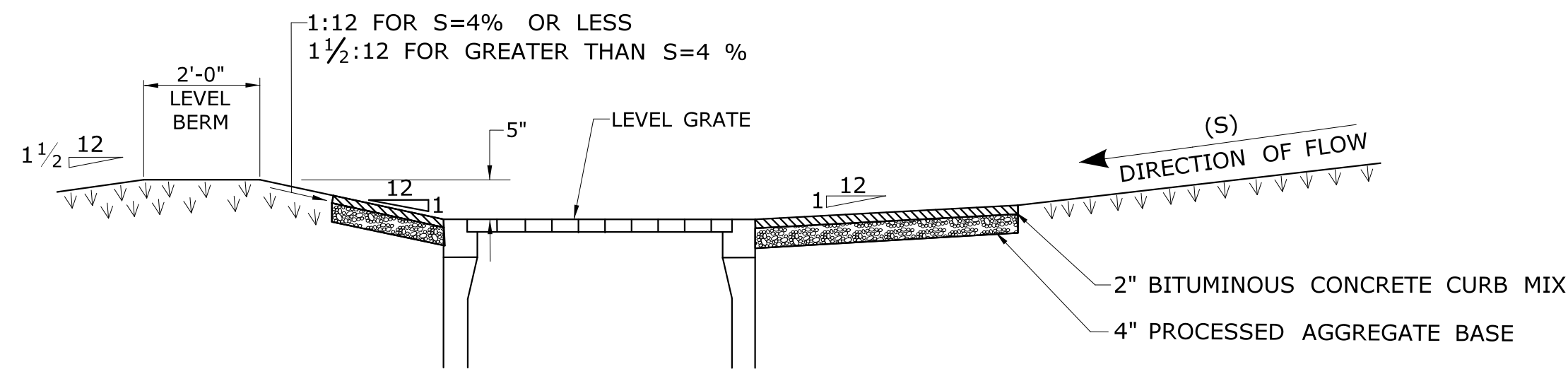
STANDARD SHEET NO.:
HW-651_01



PLAN

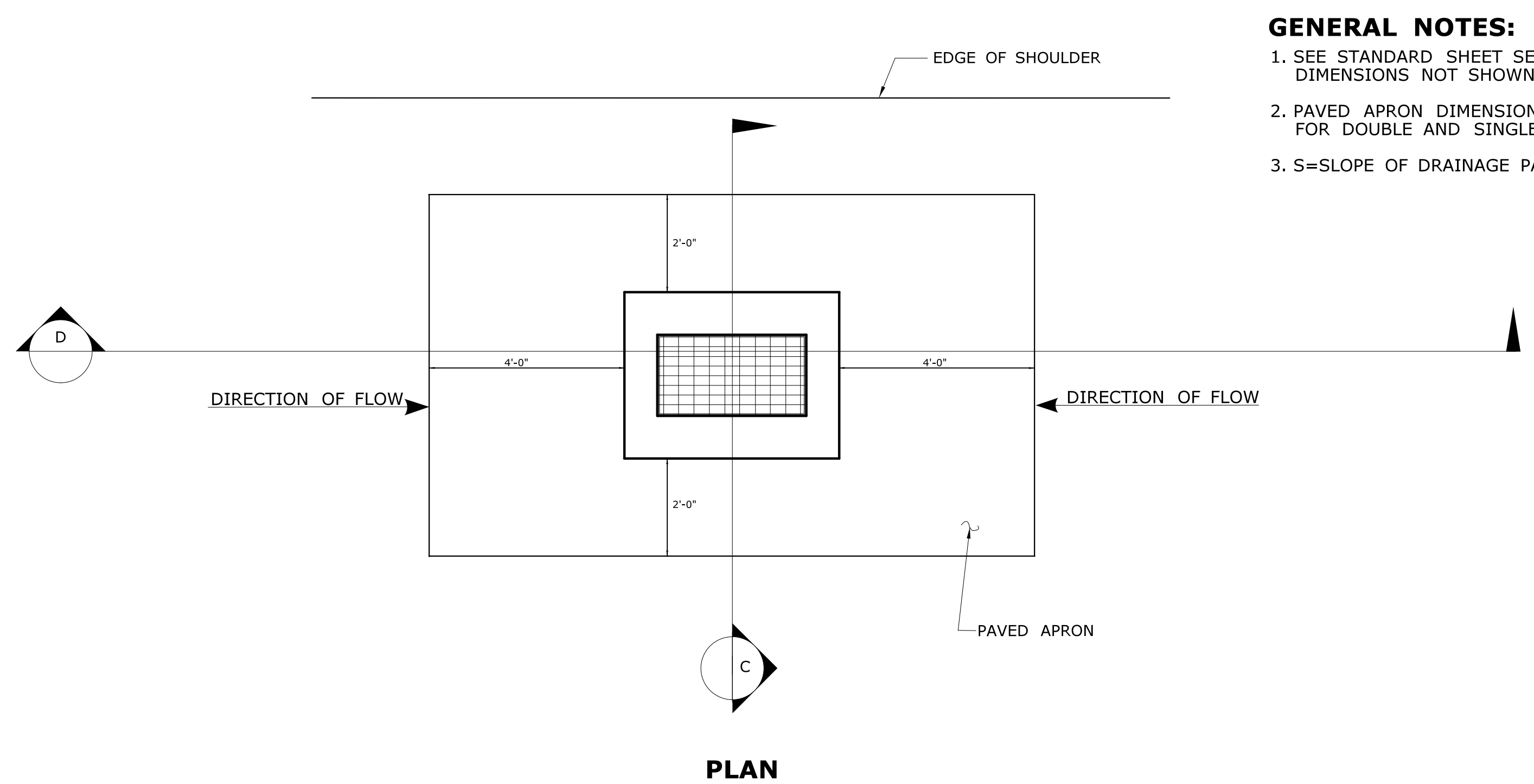


SECTION A

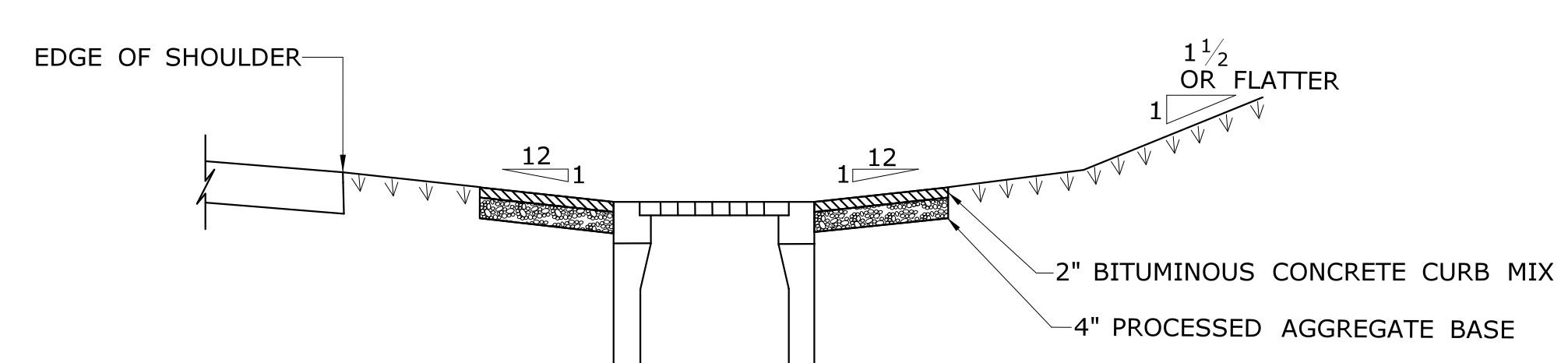


SECTION B

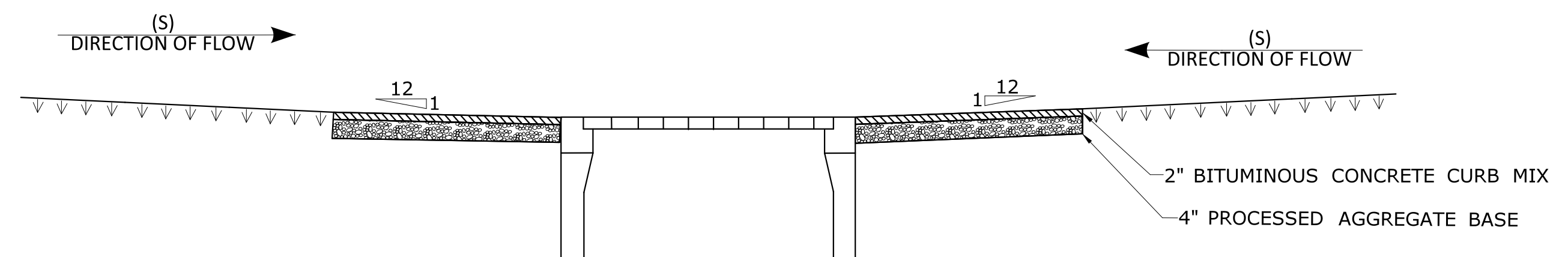
PAVED APRON FOR "C-L" CATCH BASIN ON GRADE



PLAN



SECTION C



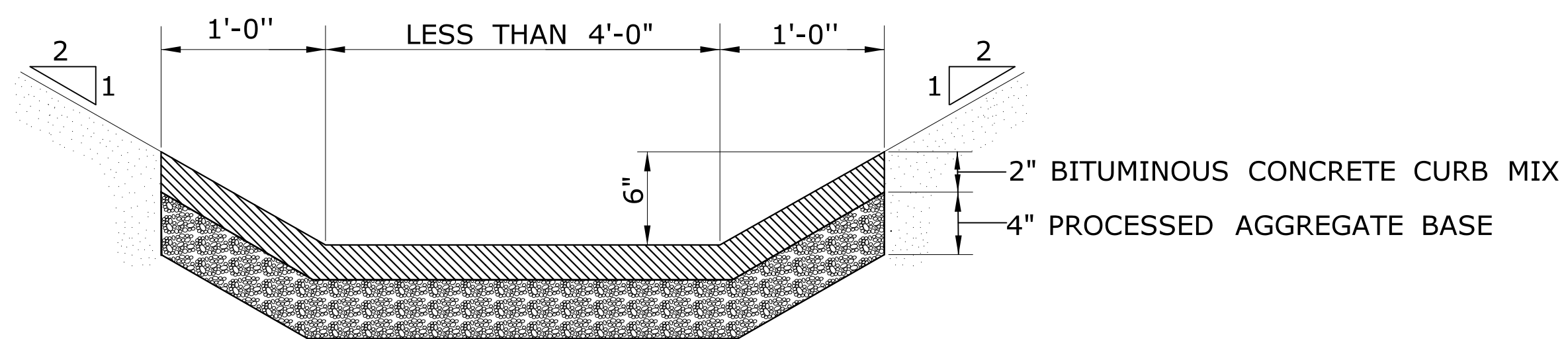
SECTION D

PAVED APRON FOR "C-L" CATCH BASIN IN A SAG

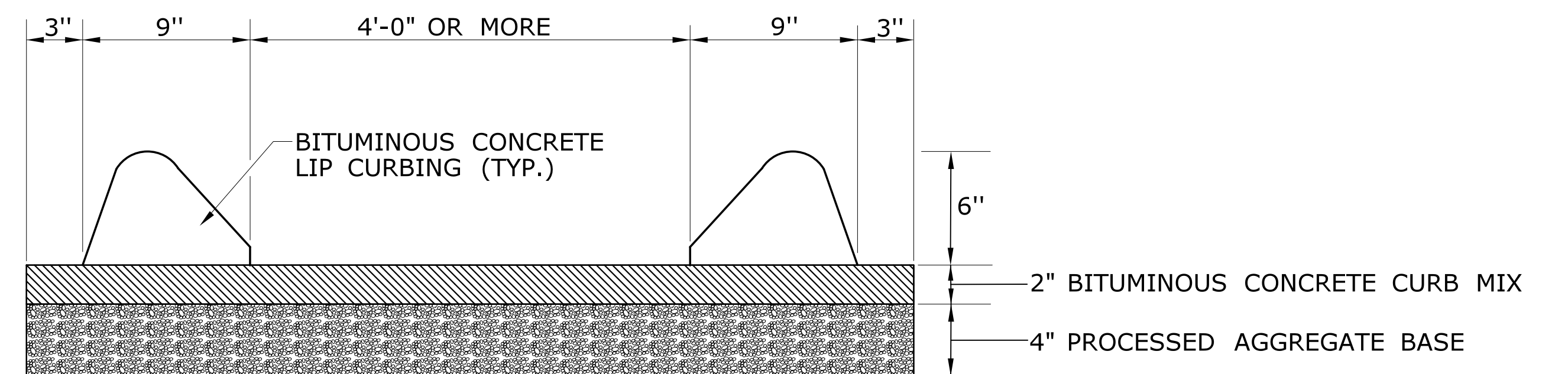
GENERAL NOTES:

1. SEE STANDARD SHEET SERIES 507, FOR CATCH BASIN DIMENSIONS NOT SHOWN.
2. PAVED APRON DIMENSIONS WILL REMAIN THE SAME FOR DOUBLE AND SINGLE GRATES.
3. S=SLOPE OF DRAINAGE PATH

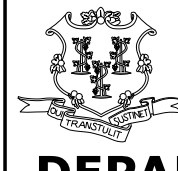
1	6/17	NEW SHEET	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SUBMITTED BY: _____ NAME/DATE/TIME: _____ APPROVED BY: _____ NAME/DATE/TIME: _____	<p>CTDOT STANDARD SHEET</p> <p>OFFICE OF ENGINEERING</p>	STANDARD SHEET TITLE: <p>PAVED APRONS</p>	STANDARD SHEET NO.: <p>HW-803_01a</p>		
REV.	DATE	REVISION DESCRIPTION			Plotted Date: 6/6/2017				Filename: HW-803_01a.dgn Model: CT-Civil-2D-Sheet	
					NOT TO SCALE					



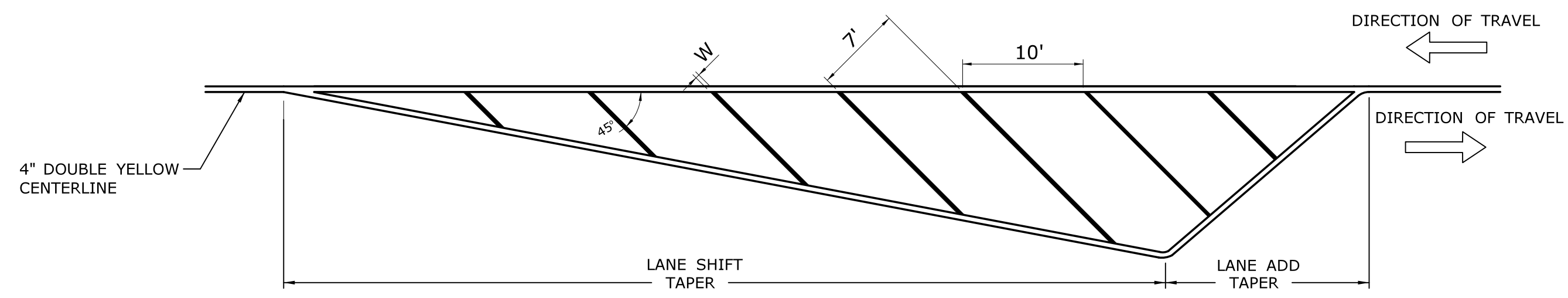
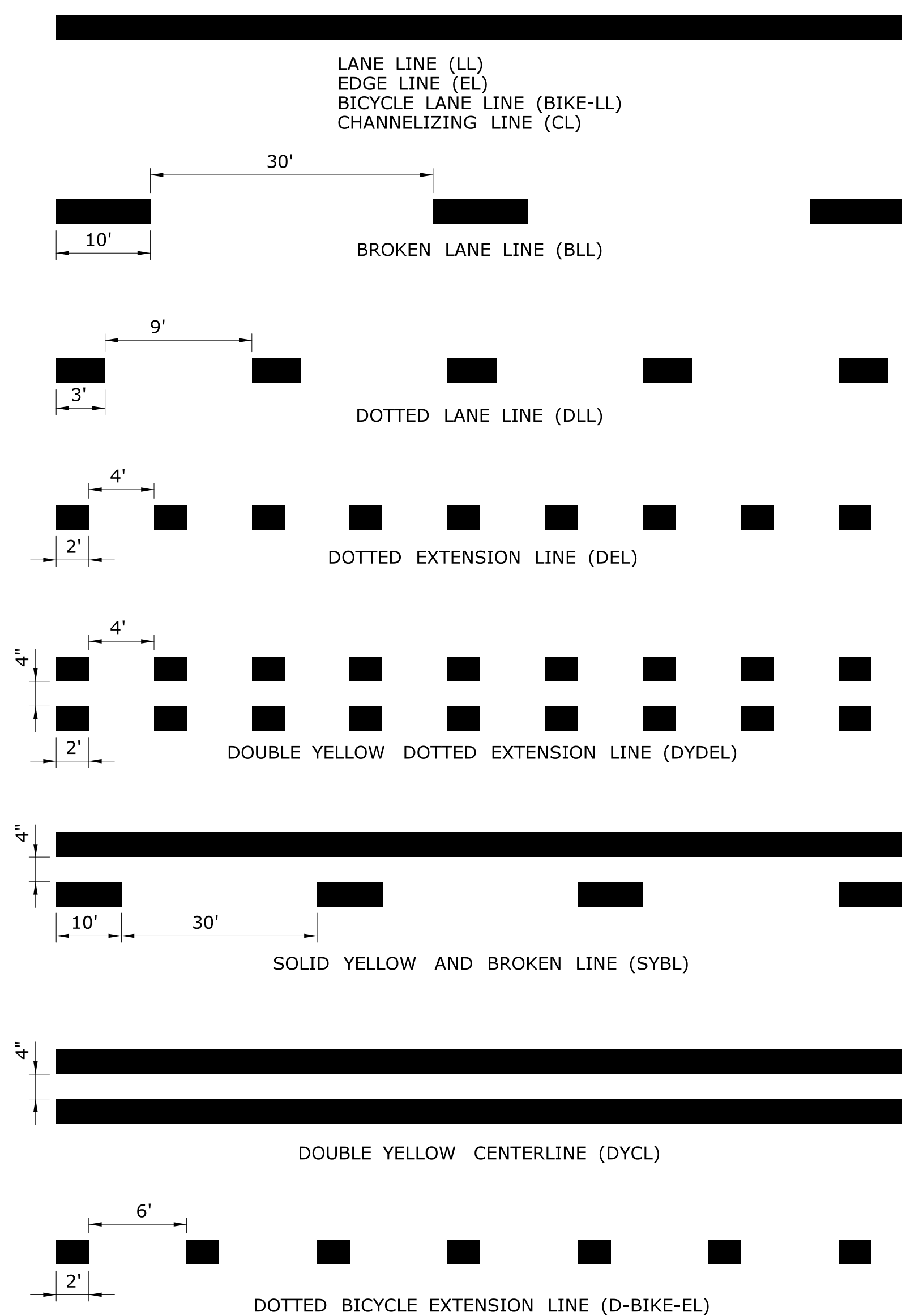
PAVED DITCHES



PAVED CHANNELS

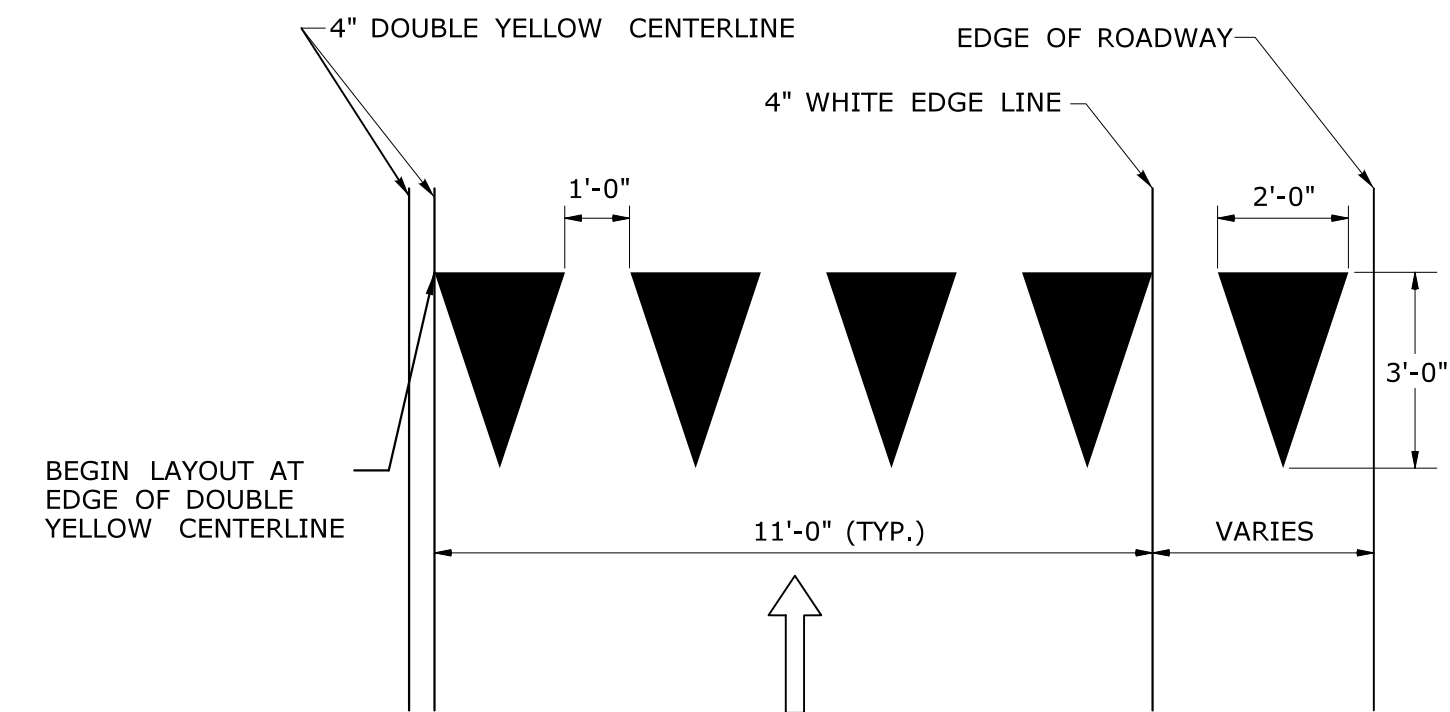
1	6/17	NEW SHEET	<small>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</small>	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	<small>SUBMITTED BY:</small> _____ <small>NAME/DATE/TIME:</small> _____	CTDOT STANDARD SHEET OFFICE OF ENGINEERING	<small>STANDARD SHEET TITLE:</small>	<small>STANDARD SHEET NO.:</small>
					<small>APPROVED BY:</small> _____ <small>NAME/DATE/TIME:</small> _____		PAVED DITCHES AND PAVED CHANNELS	HW-803_01b
<small>REV.</small>	<small>DATE</small>	<small>REVISION DESCRIPTION</small>	<small>Plotted Date: 6/6/2017</small>	<small>Filename: HW-803_01b.dgn Model: CT-Civil-2D-Sheet</small>				

NOT TO SCALE

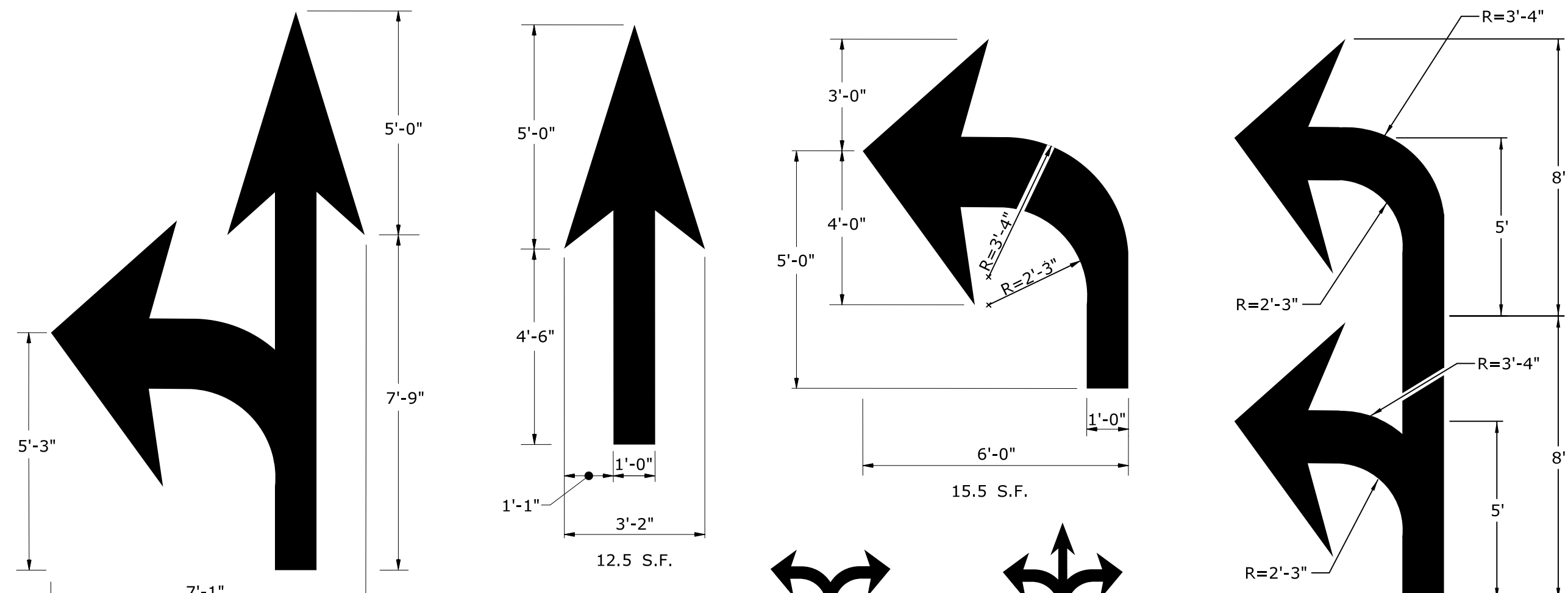


CROSS HATCHED ISLAND DETAIL
(YELLOW)

W IS TO BE 6" WHEN POSTED SPEED ≤ 45 MPH
W IS TO BE 12" WHEN POSTED SPEED > 45 MPH
CROSS HATCHED ISLANDS ARE TO BE INSTALLED WHERE CALLED FOR ON THE PLANS

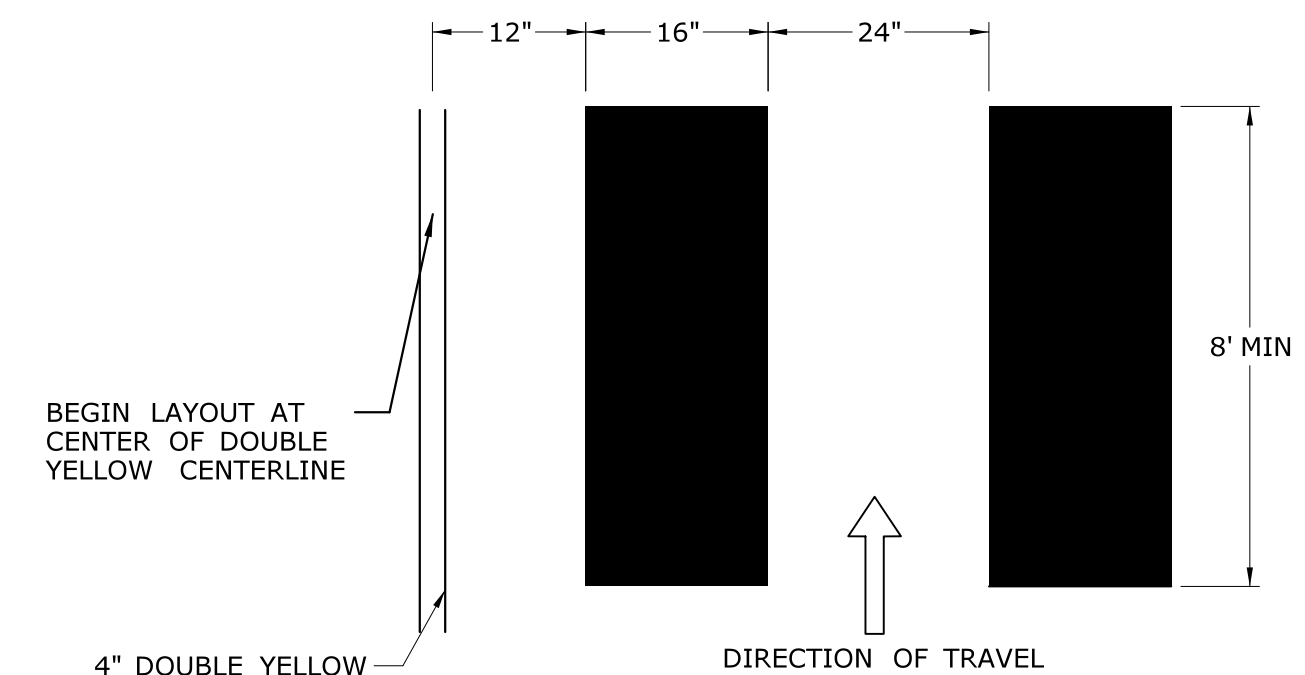


YIELD LINE DETAIL
(WHITE)

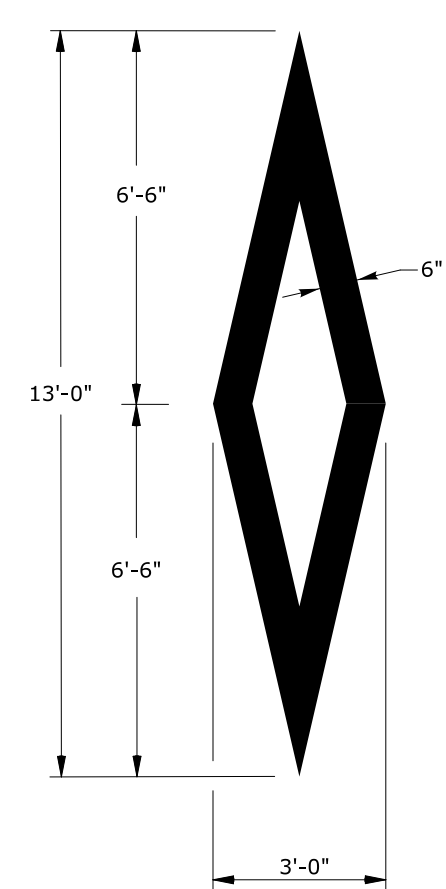


PAVEMENT ARROW DETAILS
(WHITE)

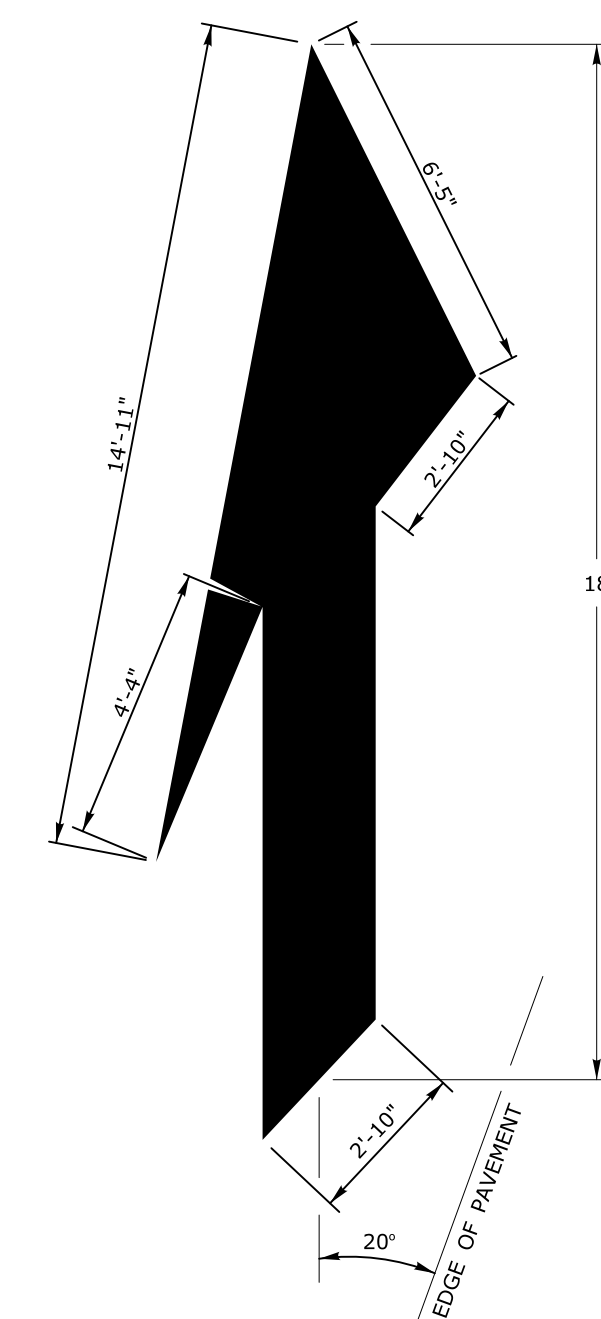
ARROWS SHALL BE CENTERED IN TRAVEL LANE



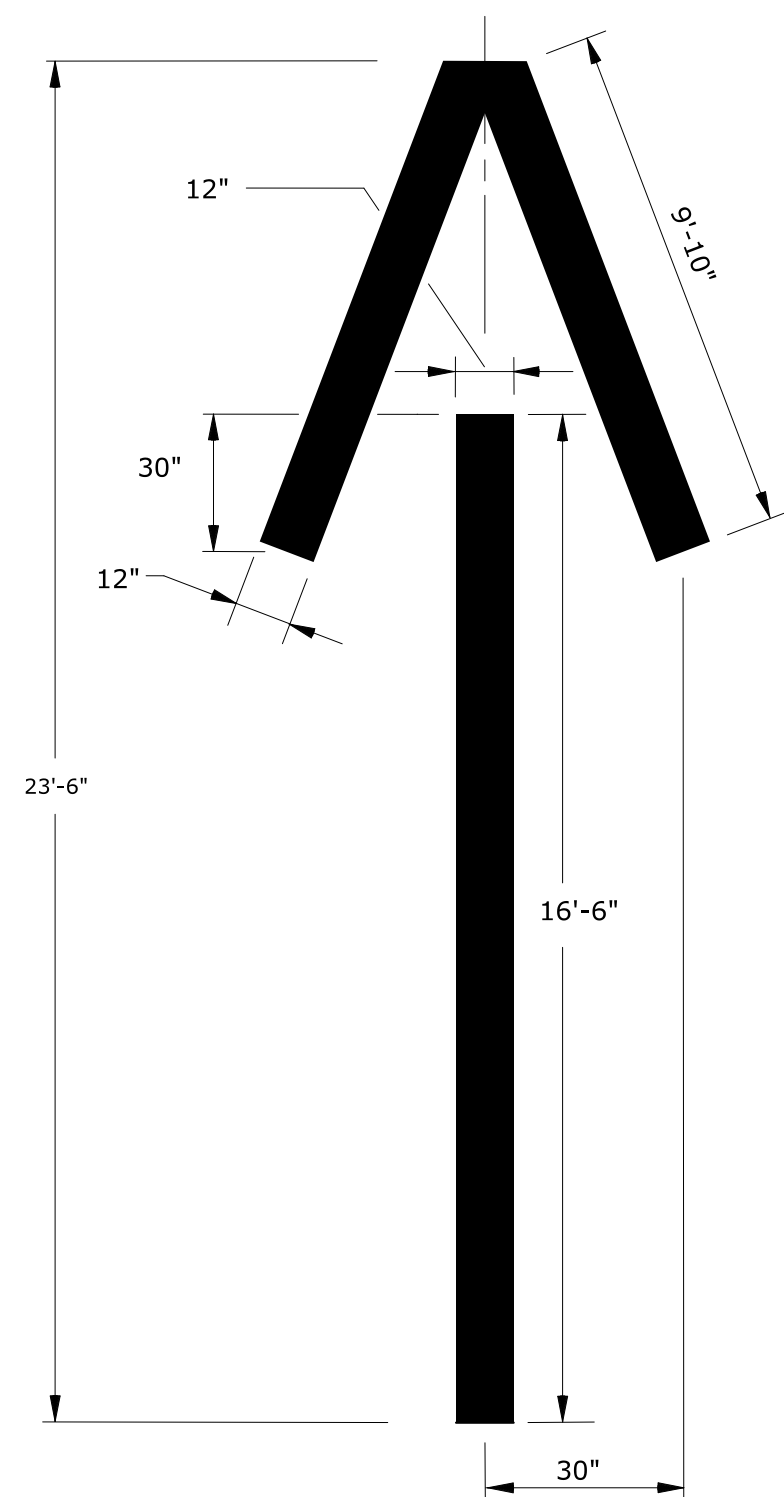
CROSSWALK DETAIL
(WHITE)



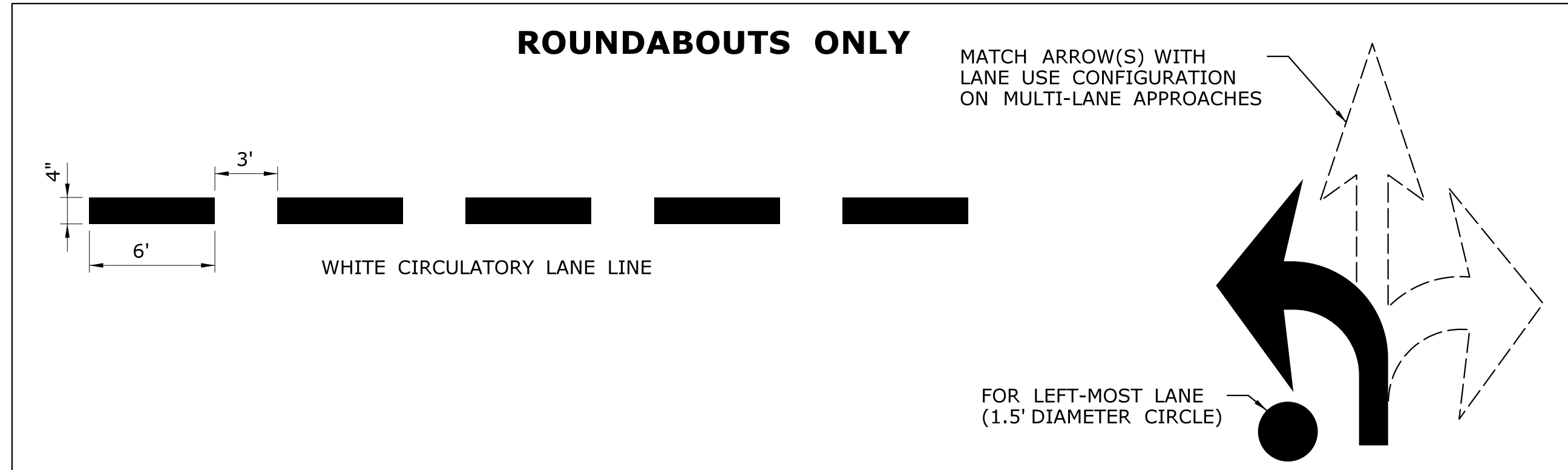
WHITE PREFERENTIAL
LANE SYMBOL
13.0 S.F.



WHITE LANE
REDUCTION ARROW
41.8 S.F.

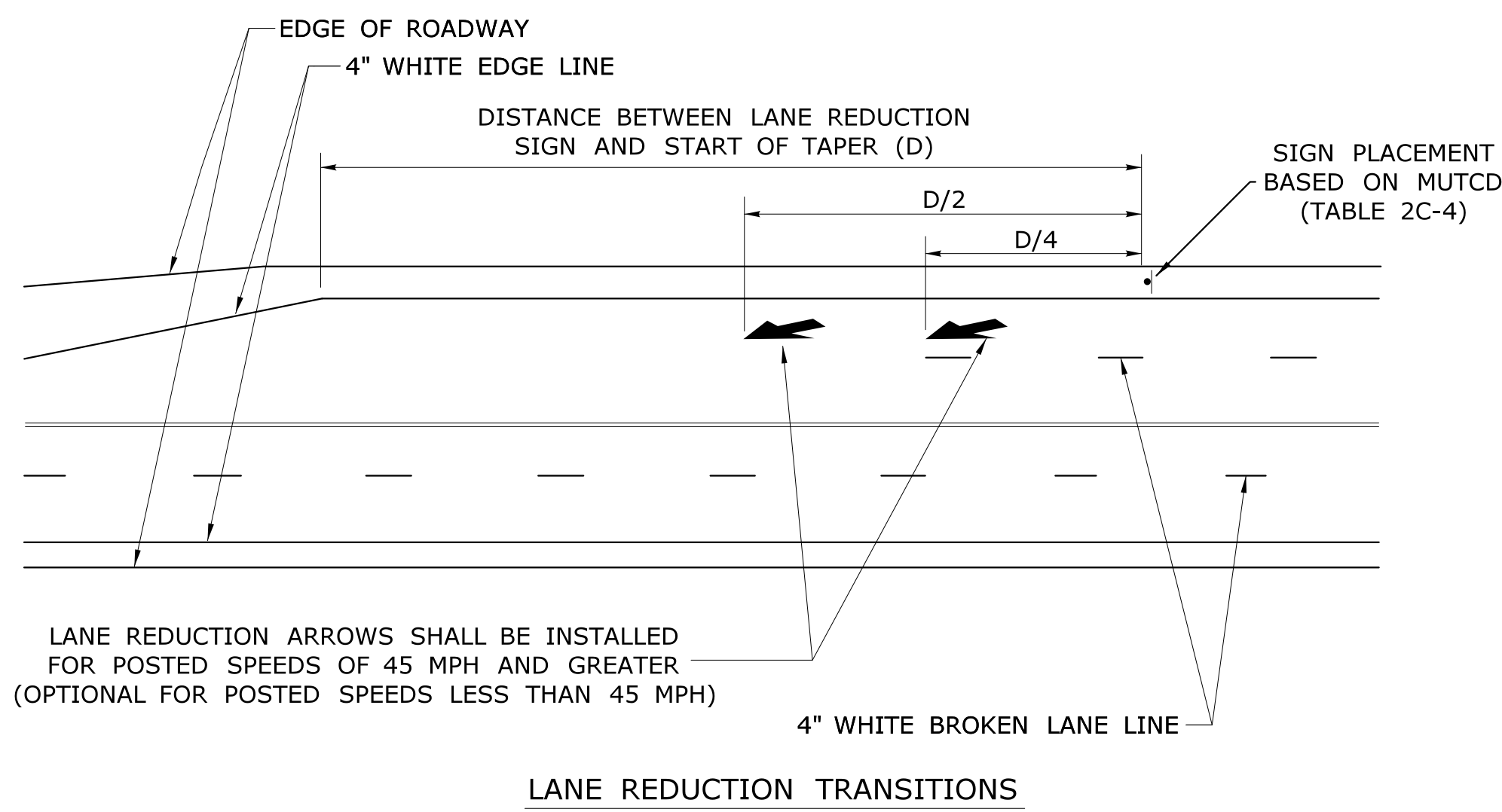
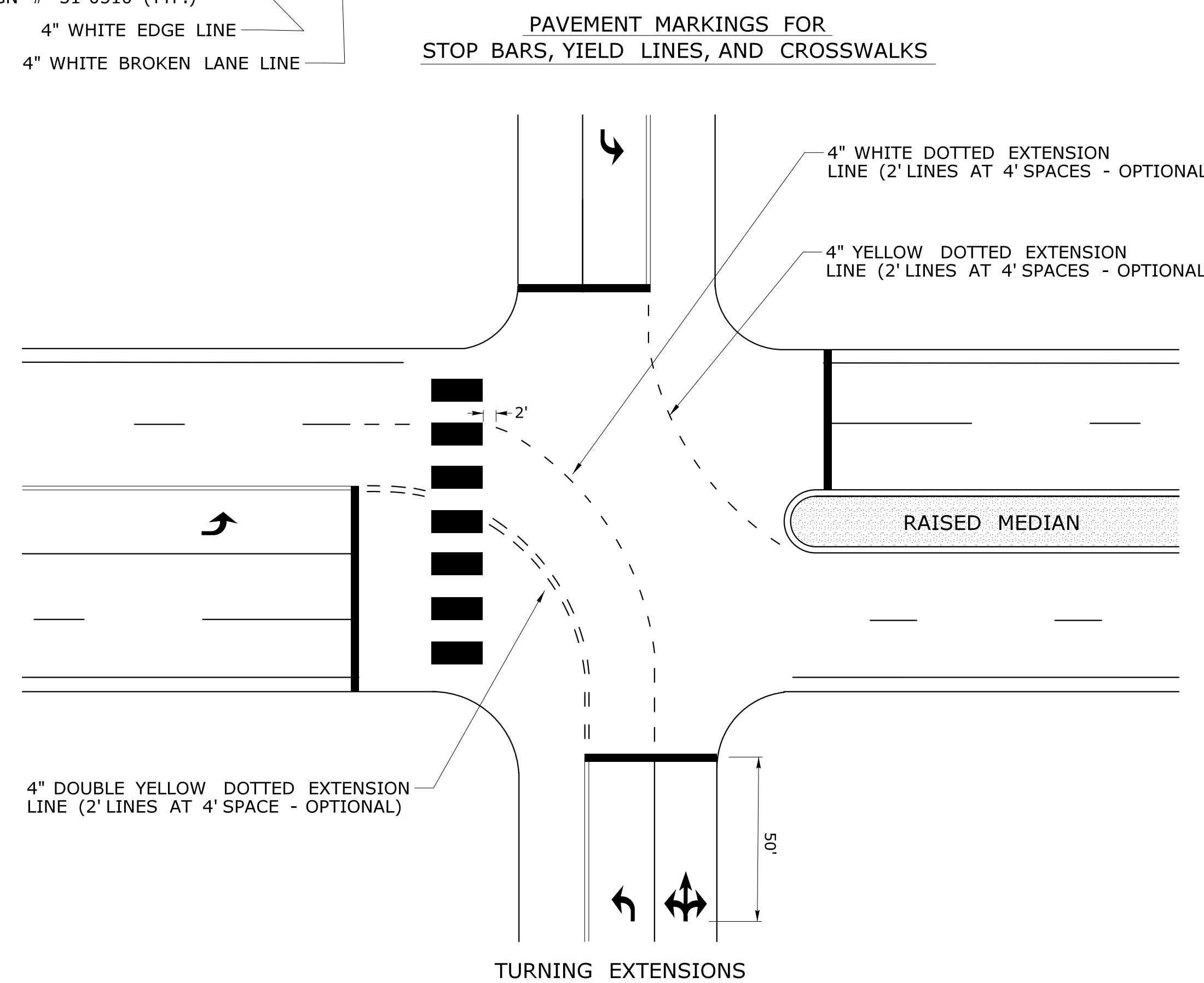
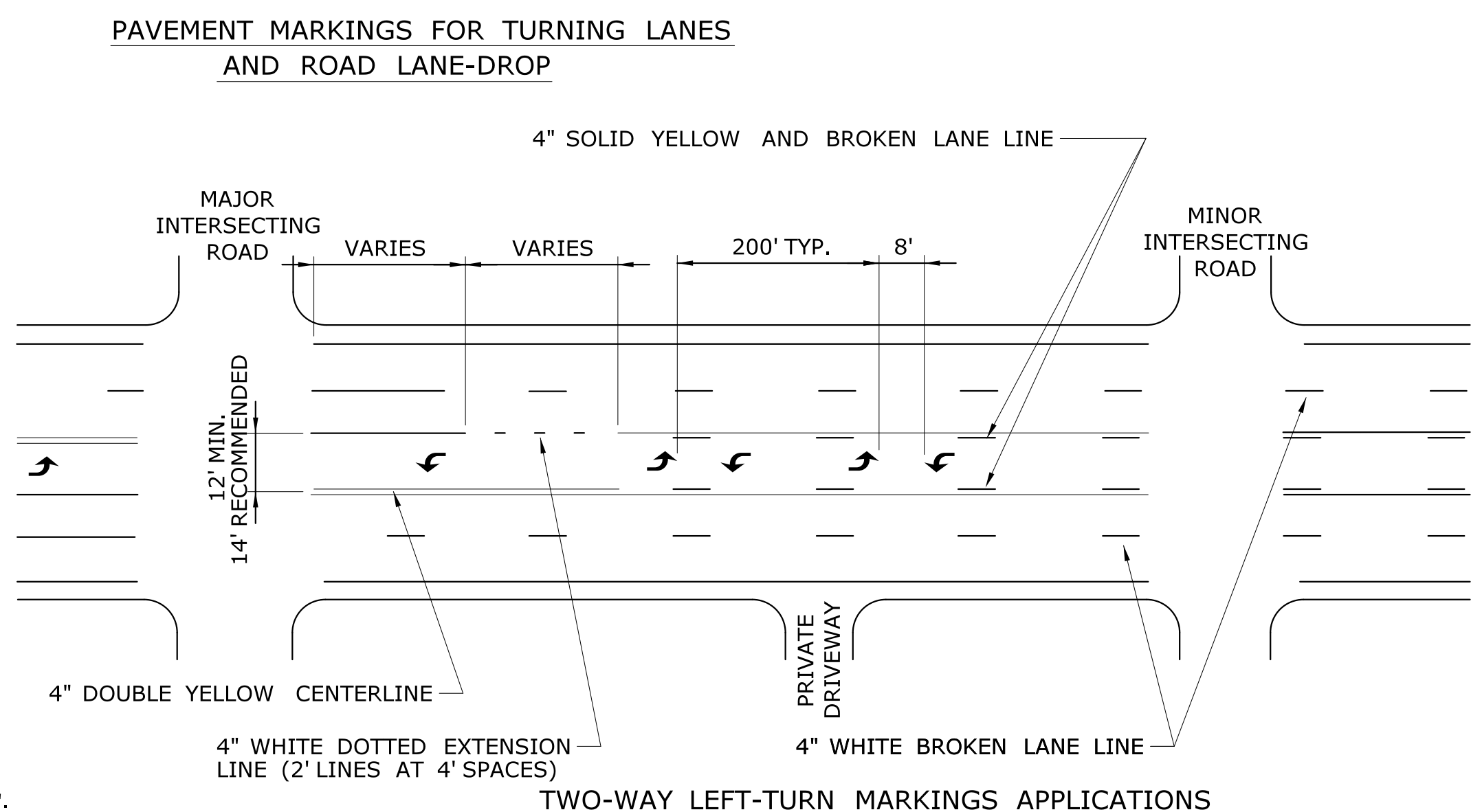
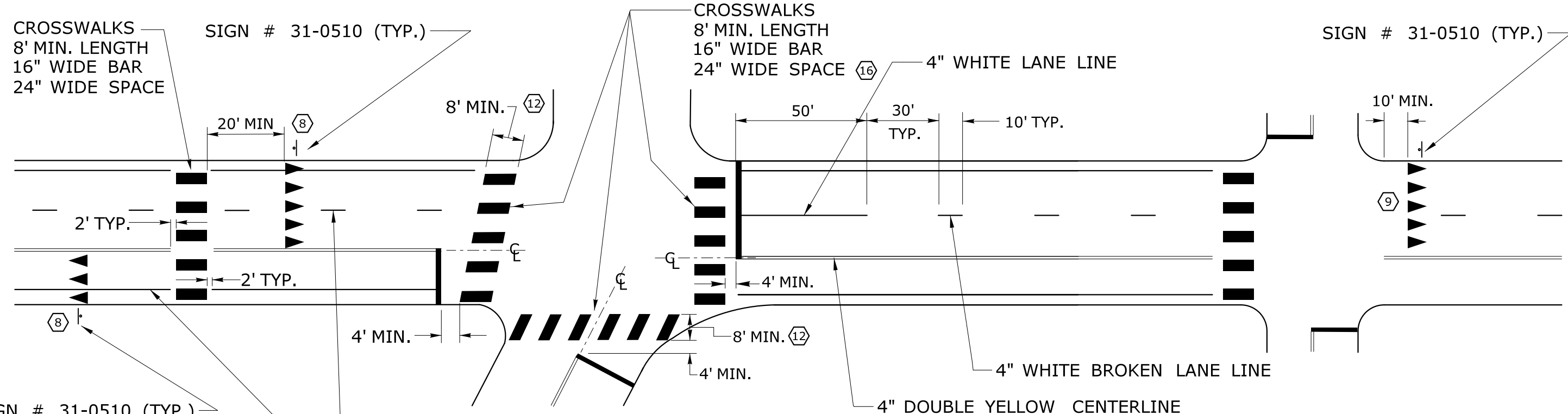
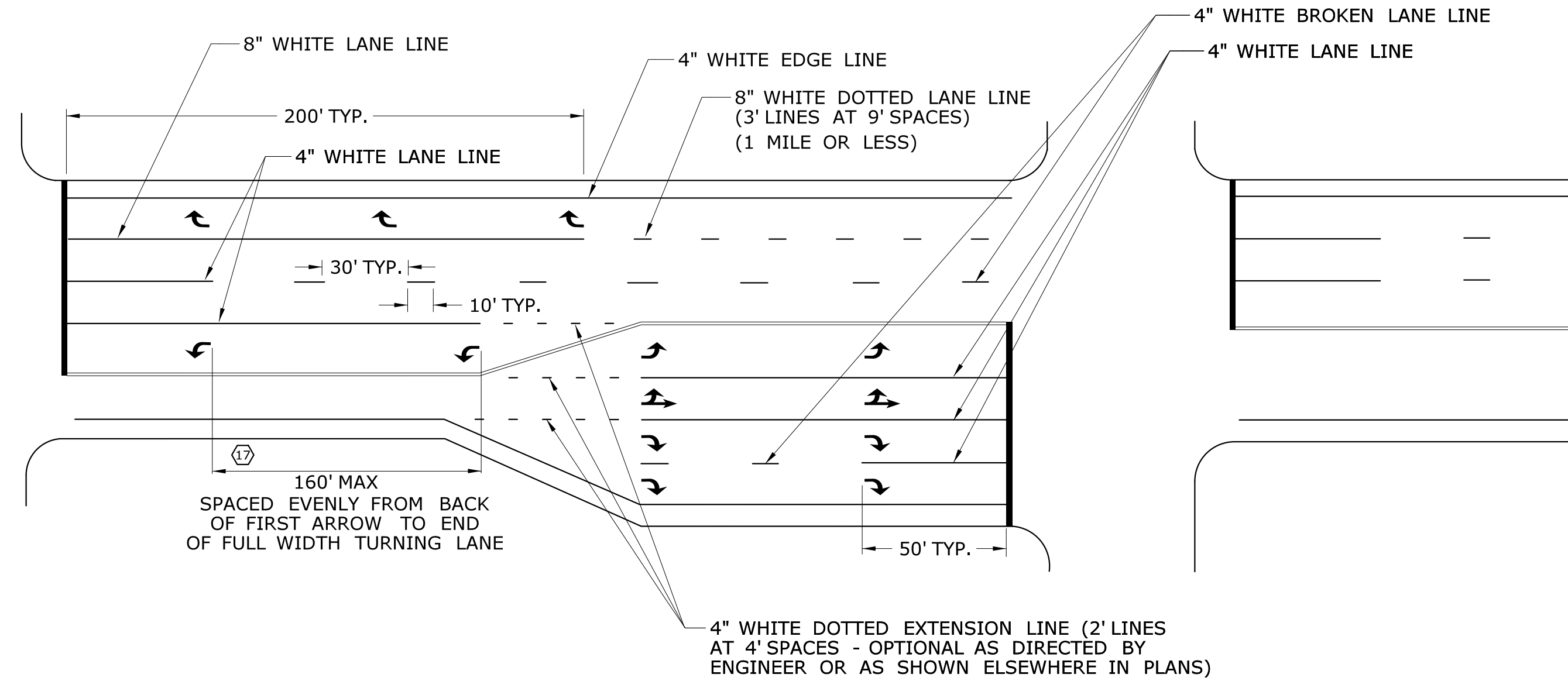
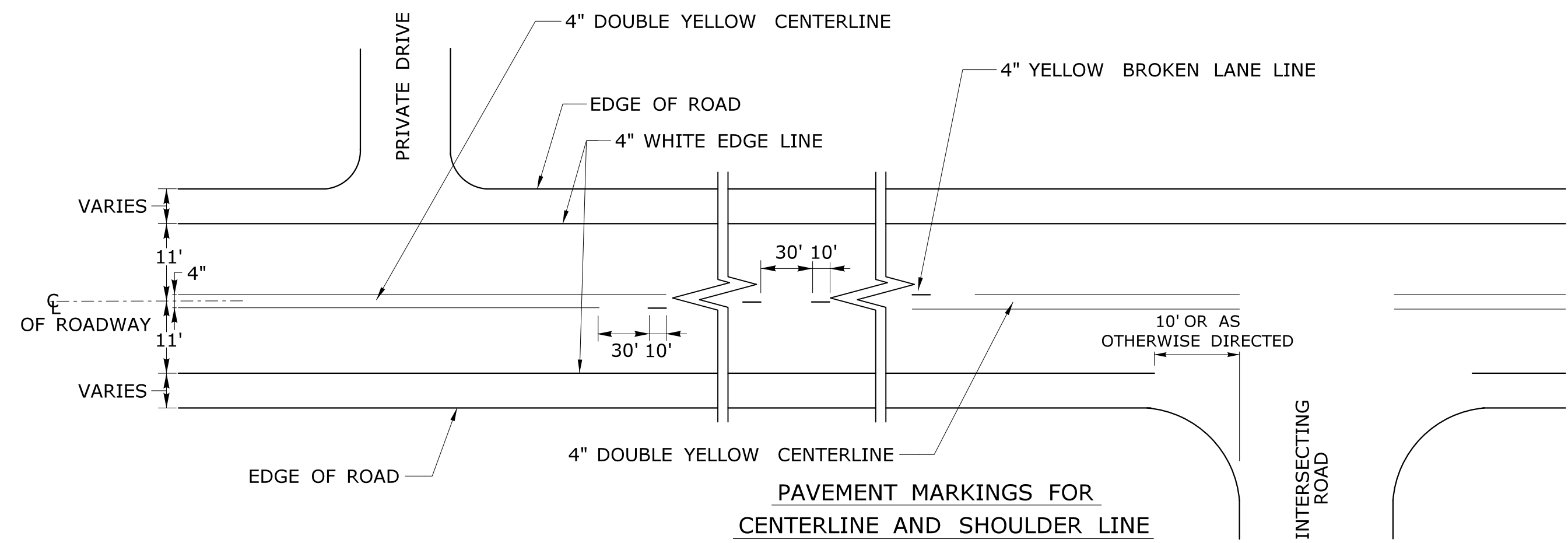


WHITE WRONG WAY
PAVEMENT ARROW
36.2 S.F.



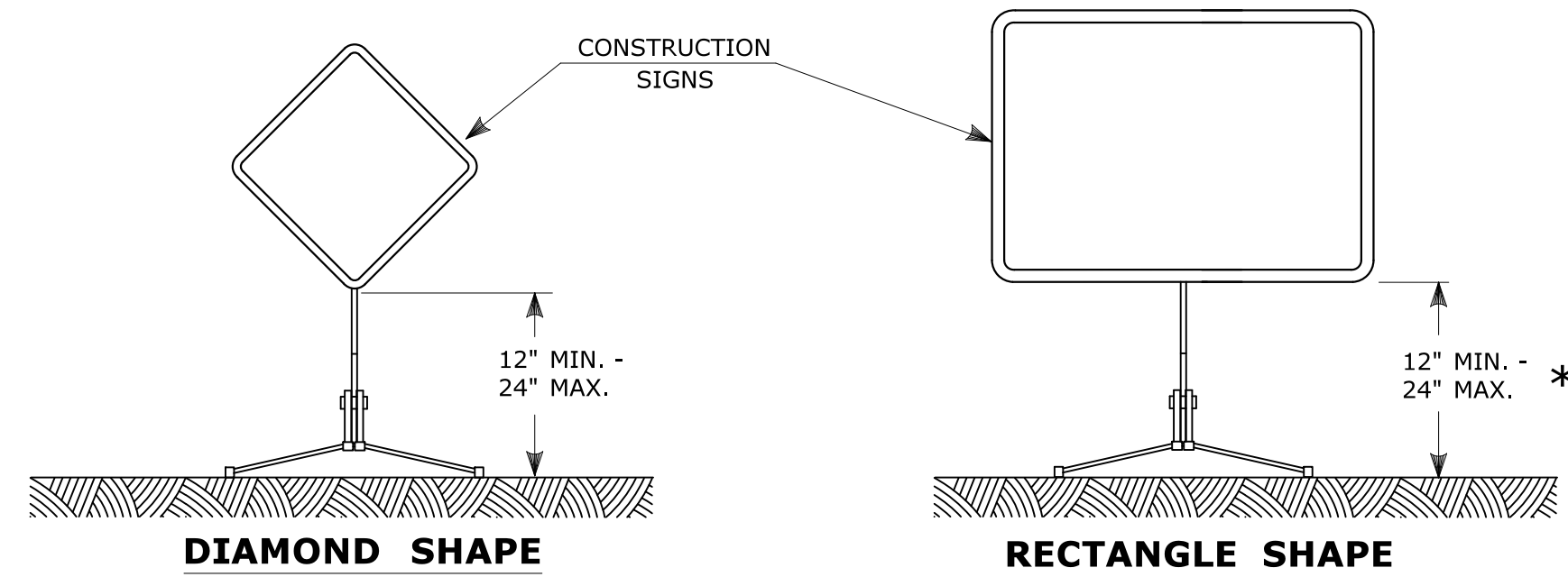
NOTES :

1. AREA OF PAVEMENT MARKINGS AS INDICATED IS APPROXIMATE.
2. RIGHT TURN PAVEMENT MARKING ARROWS ARE MIRROR IMAGE OF LEFT TURN PAVEMENT MARKING ARROWS.



- NOTES:**
STOP BARS AND YIELD LINES
 1. STOP BARS AND YIELD LINES SHALL BE WHITE.
 2. STOP BARS SHALL BE 12" MIN. UNLESS OTHERWISE NOTED ON PLANS.
 3. STOP BARS TO BE PLACED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST EDGE OF CROSSWALK AND SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY.
 4. IN THE ABSENCE OF A MARKED CROSSWALK THE STOP BAR SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY, AT THE DESIRED STOPPING POINT AT LEAST 5' AND NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
 5. THE STOP SIGN SHOULD BE PLACED IN LINE WITH THE STOP BAR. 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.
 6. FOR STOP BARS AT RAMP SEE DETAILS "R", "S", "T", & "U" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210 07 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS EXIT RAMP".
 7. FOR YIELD LINE INSTALLATIONS, ONLY FULL TRIANGLES ARE TO BE INSTALLED.
 ⑧ MID-BLOCK CROSSWALKS ARE CROSSWALKS LOCATED MORE THAN 50 FEET FROM A SIGNALIZED OR UNSIGNALIZED INTERSECTION. YIELD LINES ASSOCIATED WITH MIDBLOCK CROSSWALKS SHOULD BE INSTALLED 20 TO 50 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE OR AS DIRECTED BY THE ENGINEER. SIGN # 31-0510 IS REQUIRED.
 ⑨ FOR CROSSWALKS AT UNSIGNALIZED INTERSECTIONS WITH MINOR STREET STOP CONTROL, YIELD LINES SHALL BE INSTALLED ON MULTI-LANE APPROACHES, BUT NOT SINGLE LANE APPROACHES.
 10. THE YIELD SIGN SHOULD BE PLACED IN LINE WITH A YIELD LINE. HOWEVER, IF THE YIELD SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO YIELD, THE YIELD LINE SHOULD BE PLACED AT THE YIELDING POINT.
- CROSSWALKS**
 11. CROSSWALK MARKINGS SHALL BE WHITE.
 ⑫ AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO ϵ AND ENDS OF BARS TO BE PARALLEL. THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW.
 13. BARS SHOULD BE NO CLOSER THAN 1' FROM EDGE OF ROAD.
 14. ONLY FULL LENGTH BARS ARE TO BE INSTALLED.
 15. DECORATIVE CROSSWALKS SHALL BE BANDED FROM CURB TO CURB WITH A MINIMUM 12" WIDE WHITE TRANSVERSE LINE ALONG EACH EDGE.
 ⑬ 24" WIDE SPACE TO BE CENTERED ON YELLOW CENTERLINE.
- PAVEMENT MARKINGS FOR TURNING LANES**
 ⑭ INSTALL AT LEAST TWO ARROWS PER LANE WHERE STORAGE LENGTH IS GREATER THAN 150 FEET.

E5 - SERIES				G20 - SERIES				M4 - SERIES				R1 - SERIES				R9 & R11 - SERIES				W1 - SERIES				W3 - SERIES																																																																																																																																							
<p>COPY & BORDER - WHITE BACKGROUND - GREEN</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <tr> <td>16.0</td> <td>48</td> <td>51-6147</td> <td>2</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	51-6147	2	<p>VARIABLE MILEAGE</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <tr> <td>8.0</td> <td>48X24</td> <td>80-9612</td> <td>2</td> </tr> <tr> <td>9.0</td> <td>120X108</td> <td>80-9728</td> <td></td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	8.0	48X24	80-9612	2	9.0	120X108	80-9728		<p>VARIABLE ARROW</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <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> </tbody> </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 & BORDER - WHITE BACKGROUND - RED</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <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> </tbody> </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 & BORDER - BLACK BACKGROUND - WHITE</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <tr> <td>3.75</td> <td>30X18</td> <td>80-9076</td> <td>1</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	3.75	30X18	80-9076	1	<p>VARIABLE MILEAGE COPY & BORDER - BLACK BACKGROUND - WHITE</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <tr> <td>12.5</td> <td>60X30</td> <td>80-9077</td> <td>2</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	12.5	60X30	80-9077	2	<p>(L) (R)</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <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> </tbody> </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"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <tr> <td>9.0</td> <td>36</td> <td>80-9808</td> <td>1</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9808	1																																								
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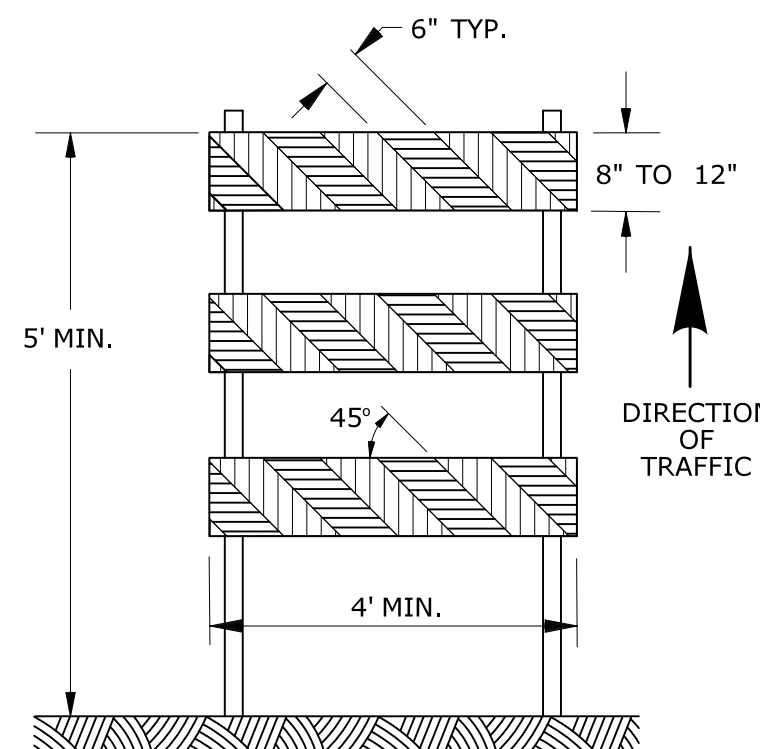
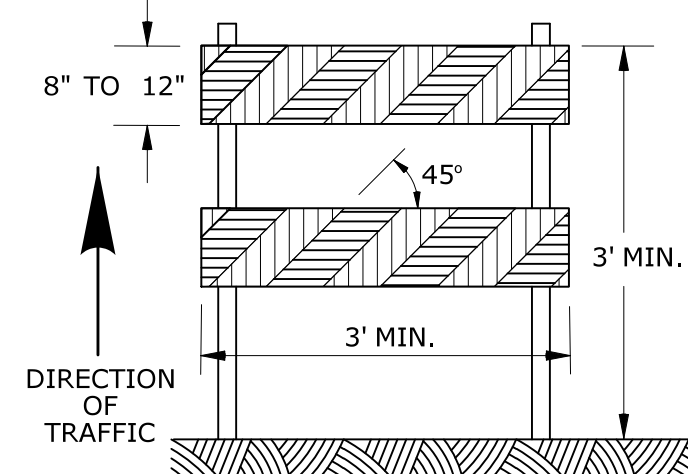
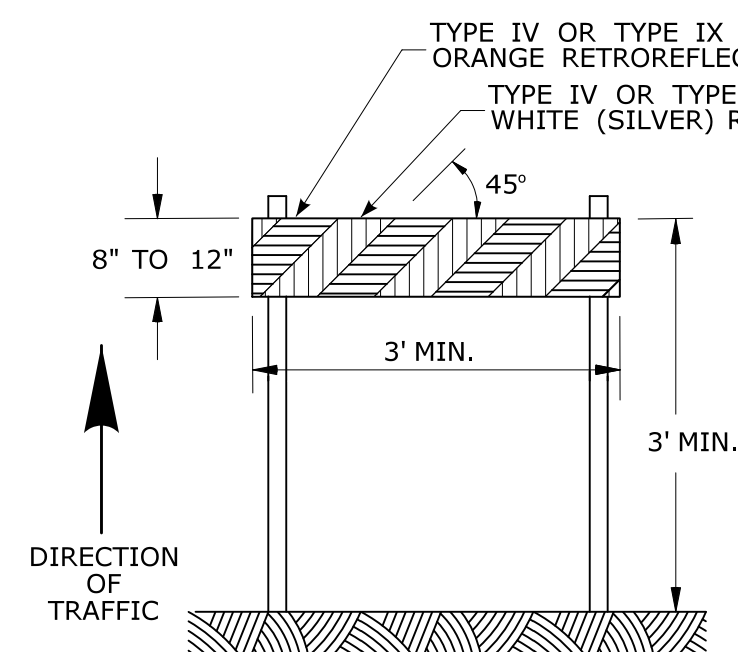


PORTABLE CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

- SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24". 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) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
- PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220.01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.

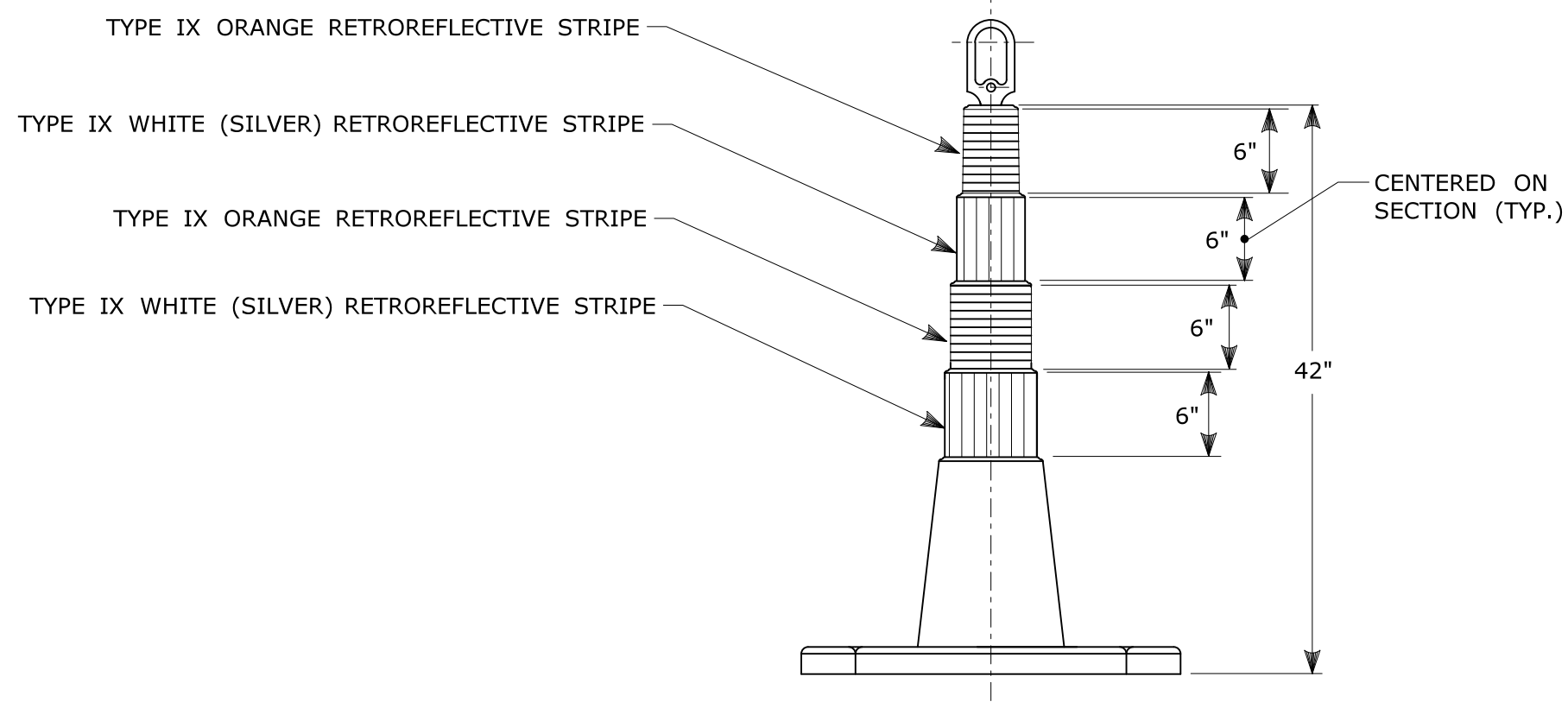
* FOR E5-1 (EXIT SIGNS) USE MIN 48".



CONSTRUCTION BARRICADES

NOTES:

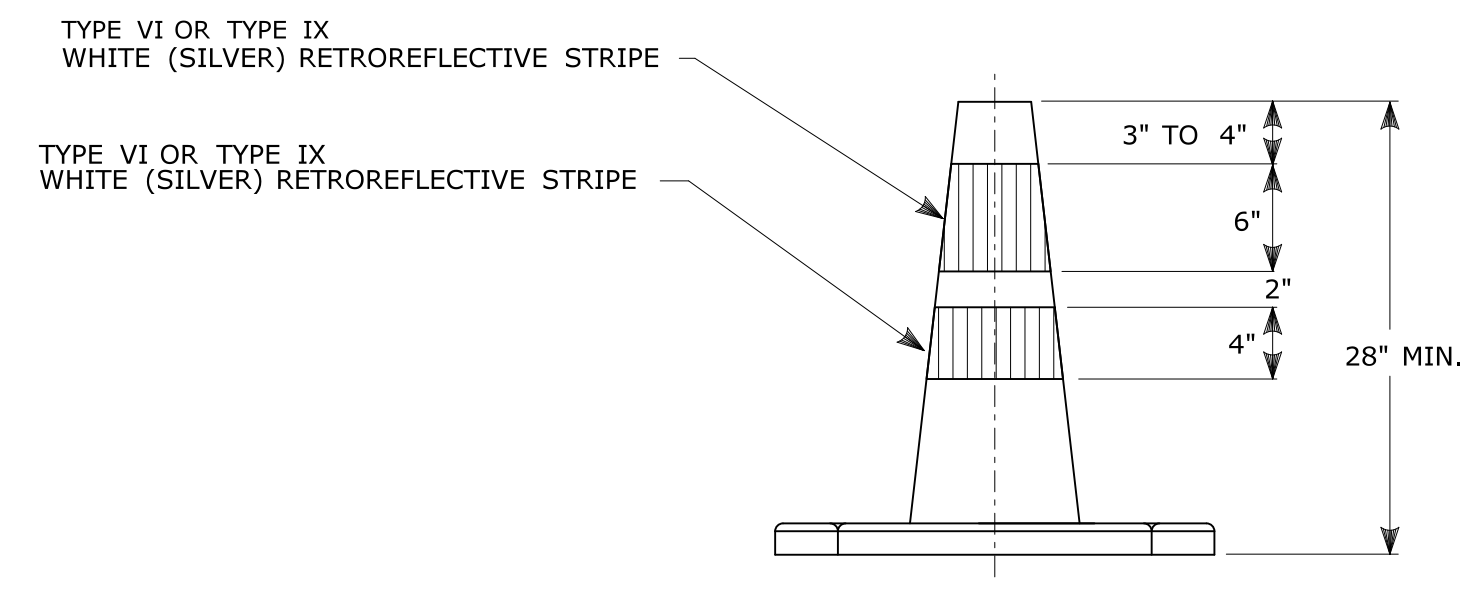
- CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
- MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
- 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.



42" TRAFFIC CONE

NOTES:

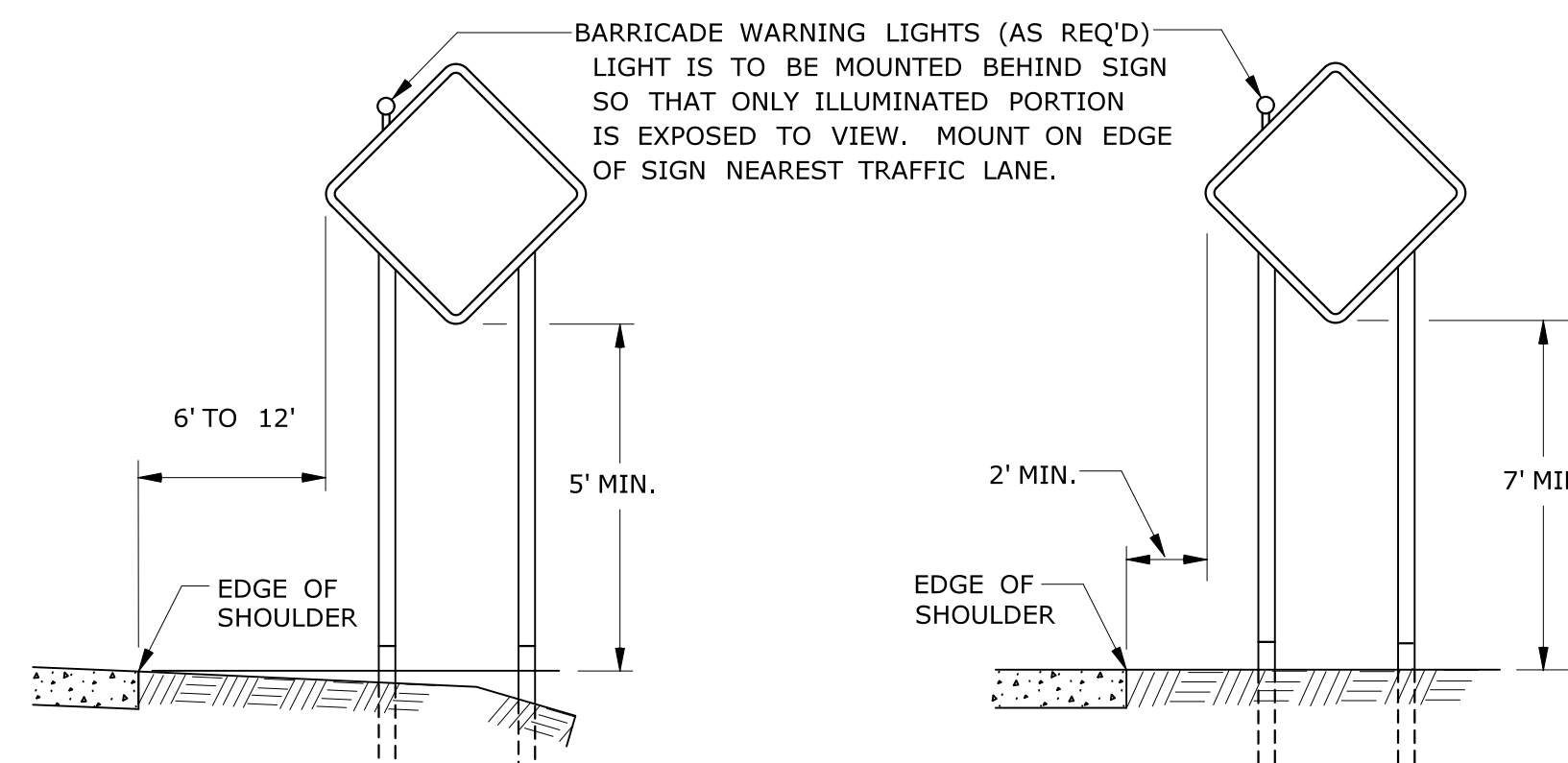
- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



TRAFFIC CONE

NOTES:

- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES 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 CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



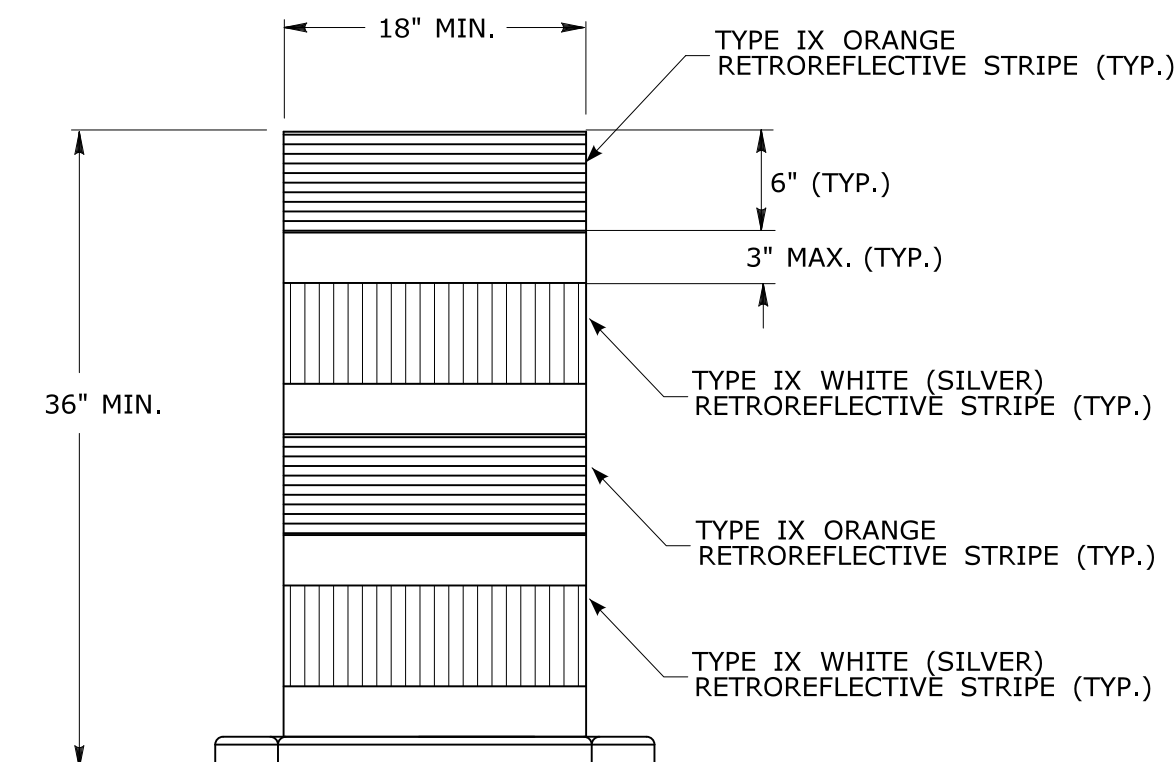
RURAL AREA

URBAN AREA

**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) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES 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.				SUBMITTED BY: _____ NAME/DATE/TIME: _____	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES	STANDARD SHEET NO.: TR-1220_02
2 8-2015 UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.	1 2-2011 MINOR REVISIONS.	NOT TO SCALE	APPROVED BY: _____ NAME/DATE/TIME: _____	OFFICE OF ENGINEERING			
REV. DATE REVISION DESCRIPTION	Plotted Date: 8/14/2015	File name: CTDOT_TRAFFIC_STD.DGN Model: TR-1220_02					