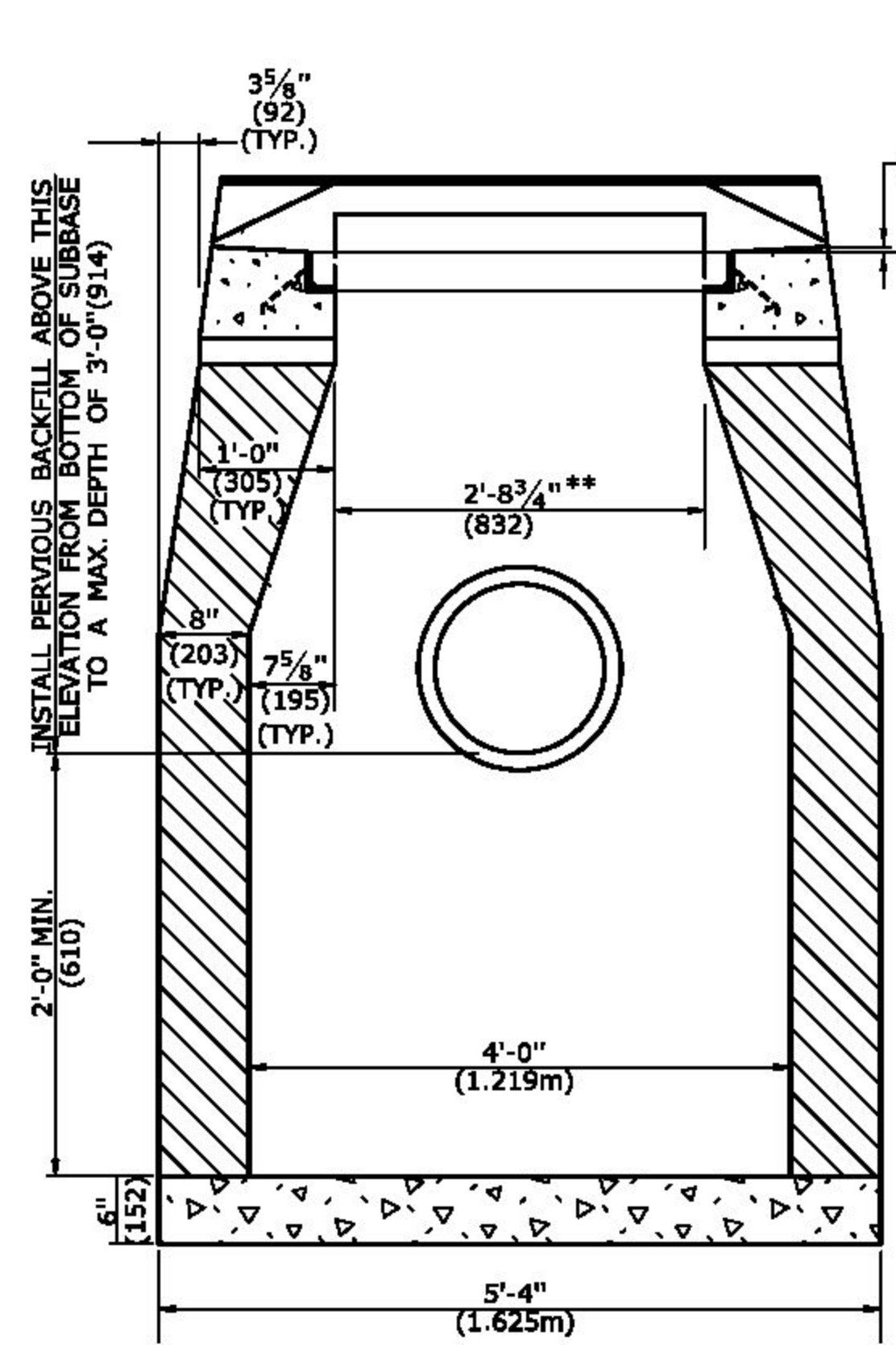
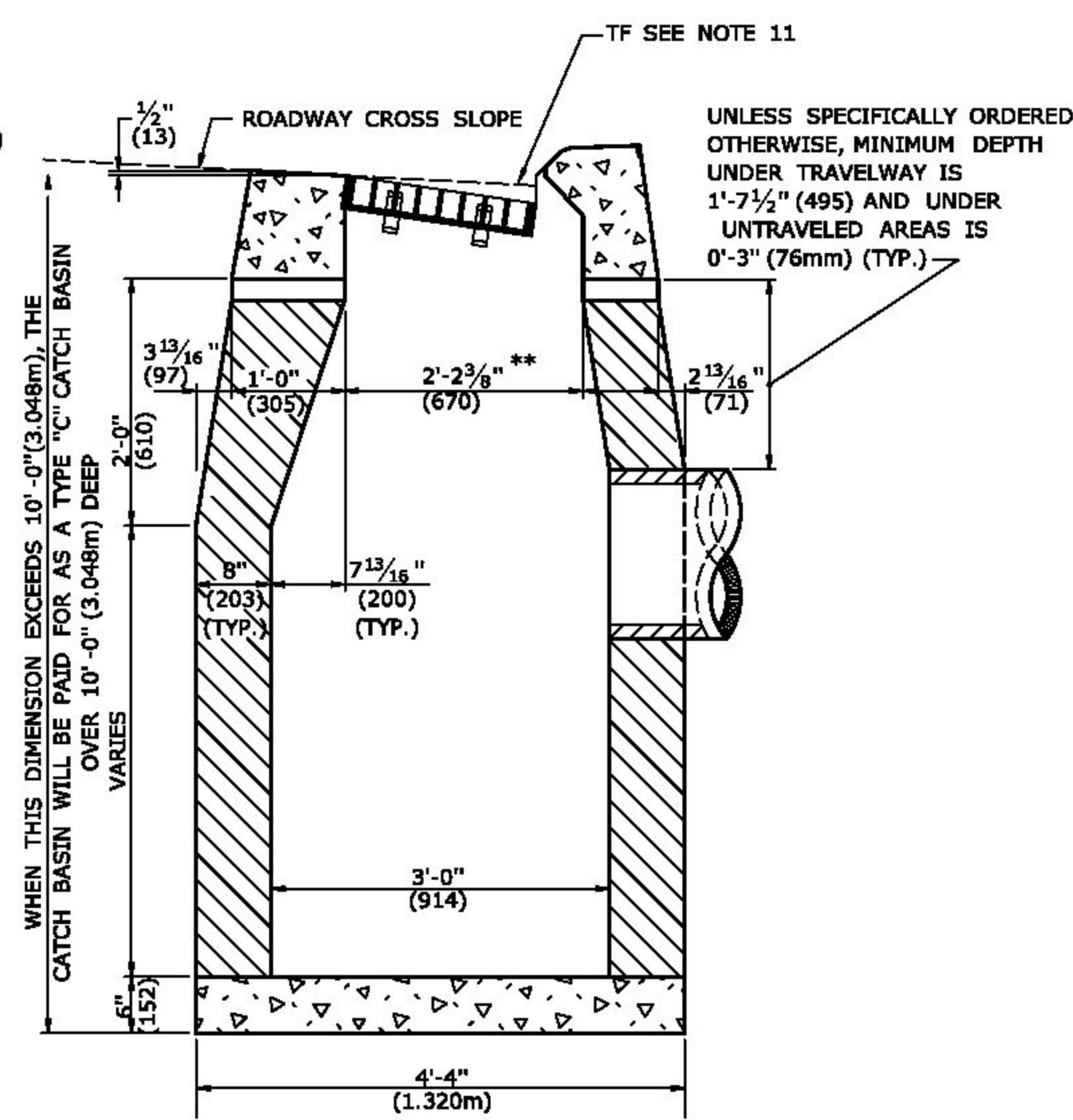


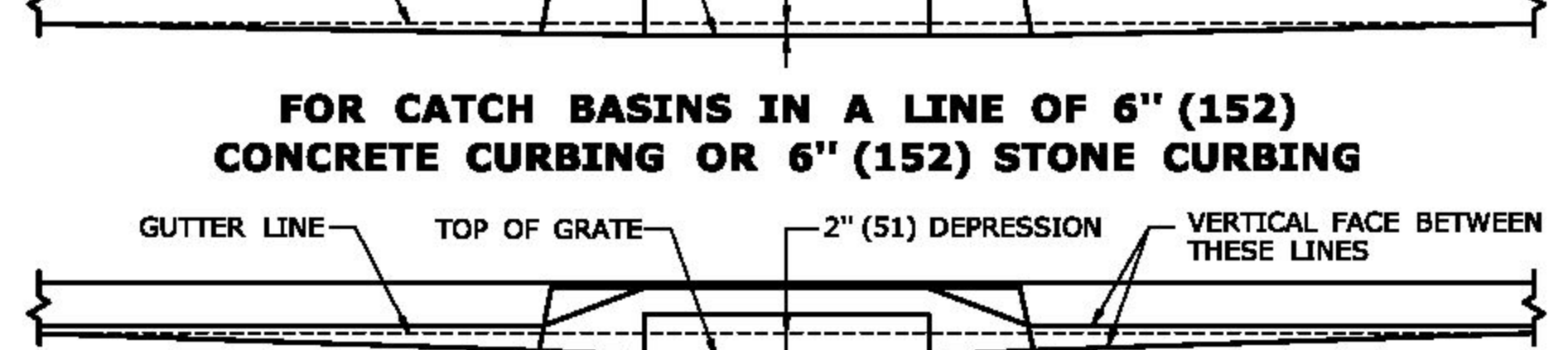
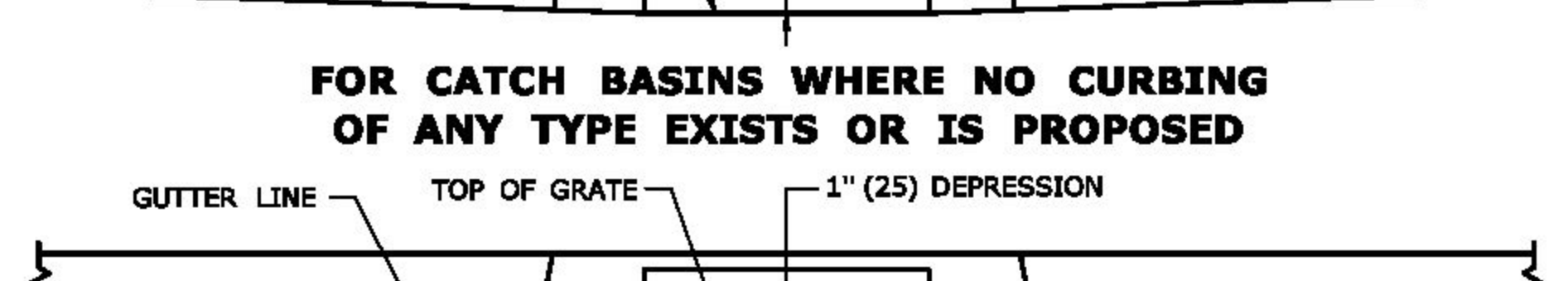
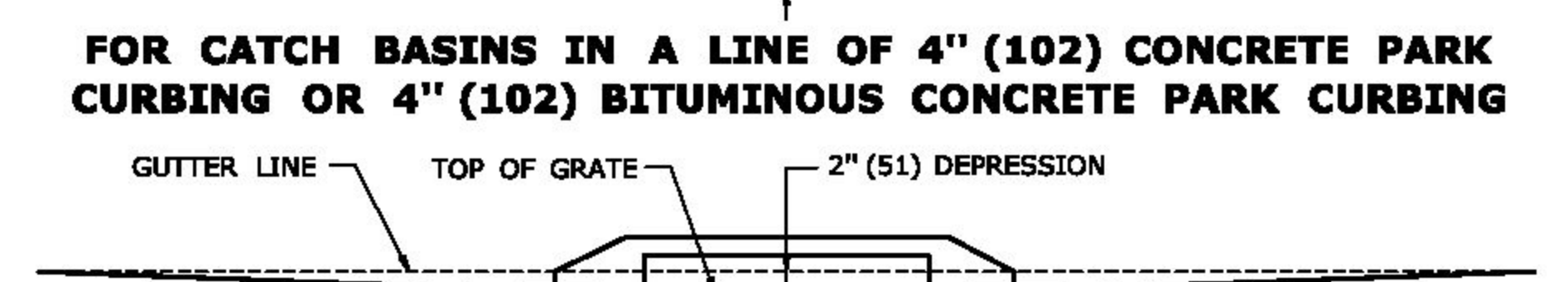
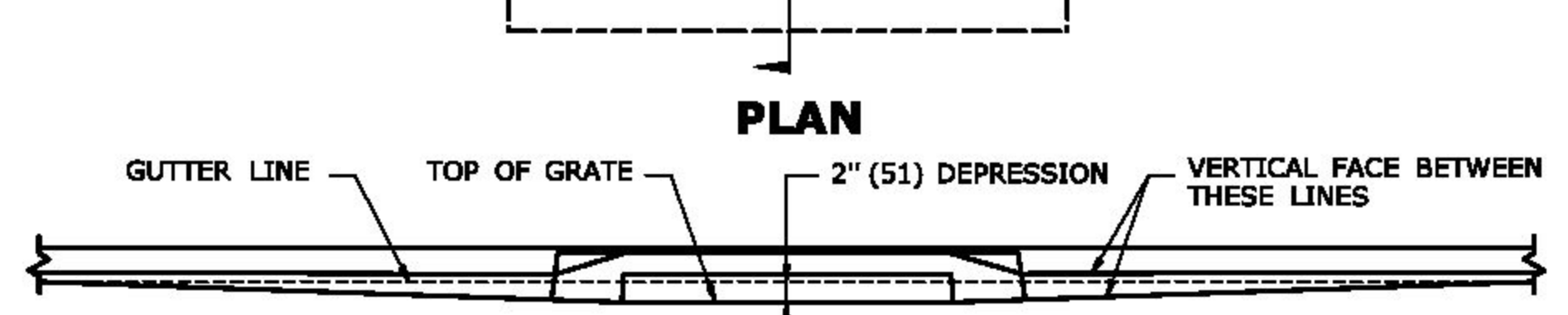
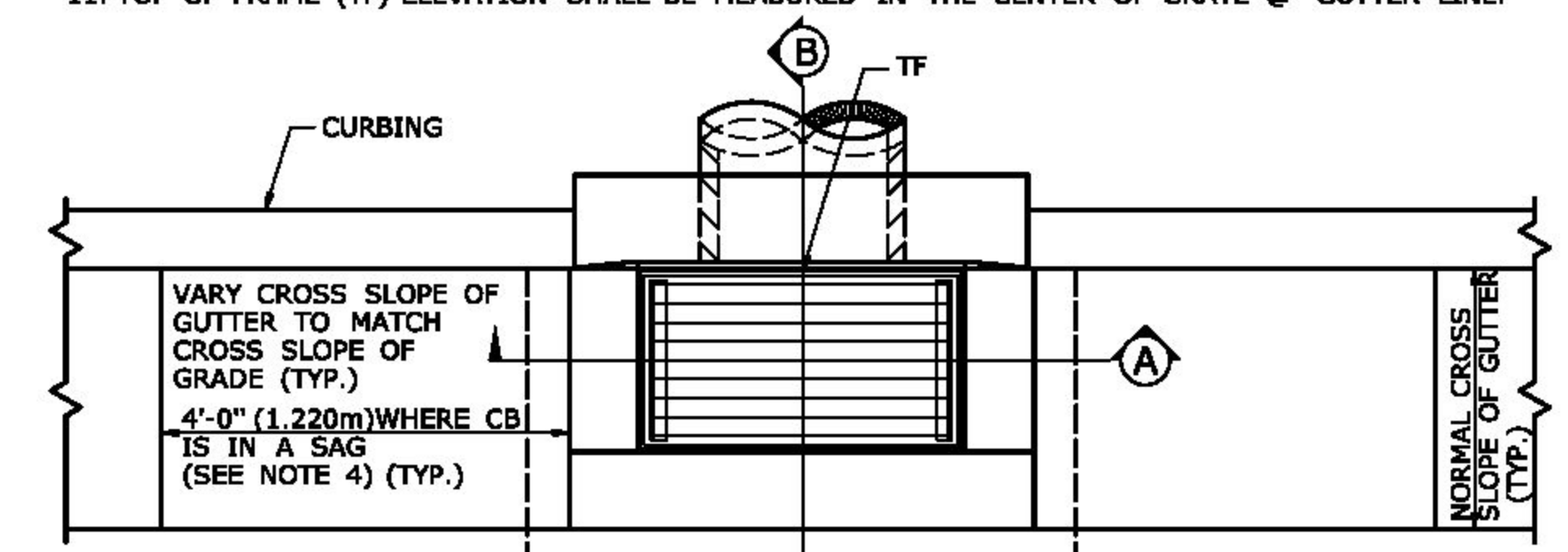
SECTION B
TYPE "C-L" CATCH BASIN



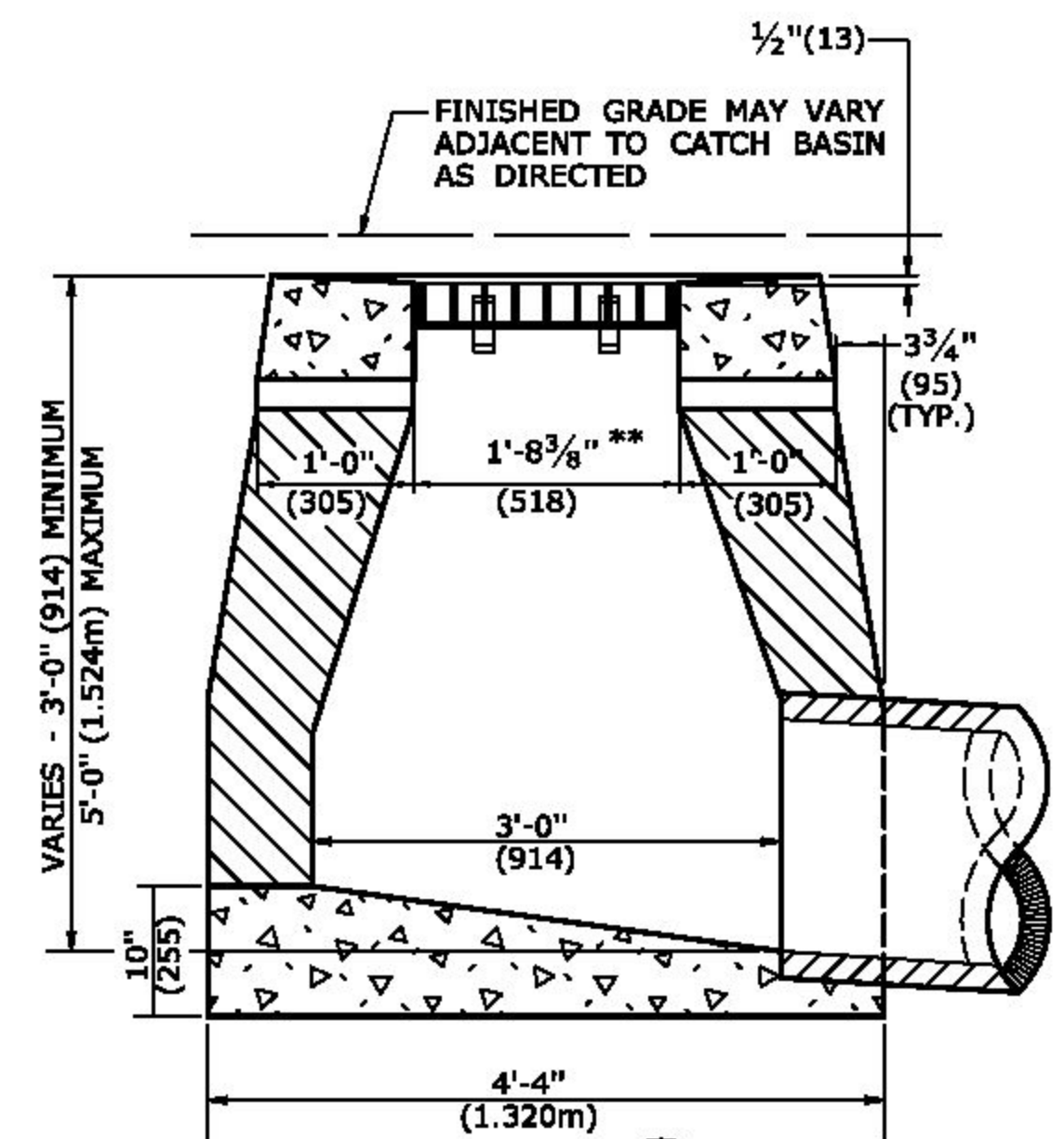
SECTION A
TYPE "C" & "C-L" CATCH BASIN (TYPE "C" TOP SHOWN)



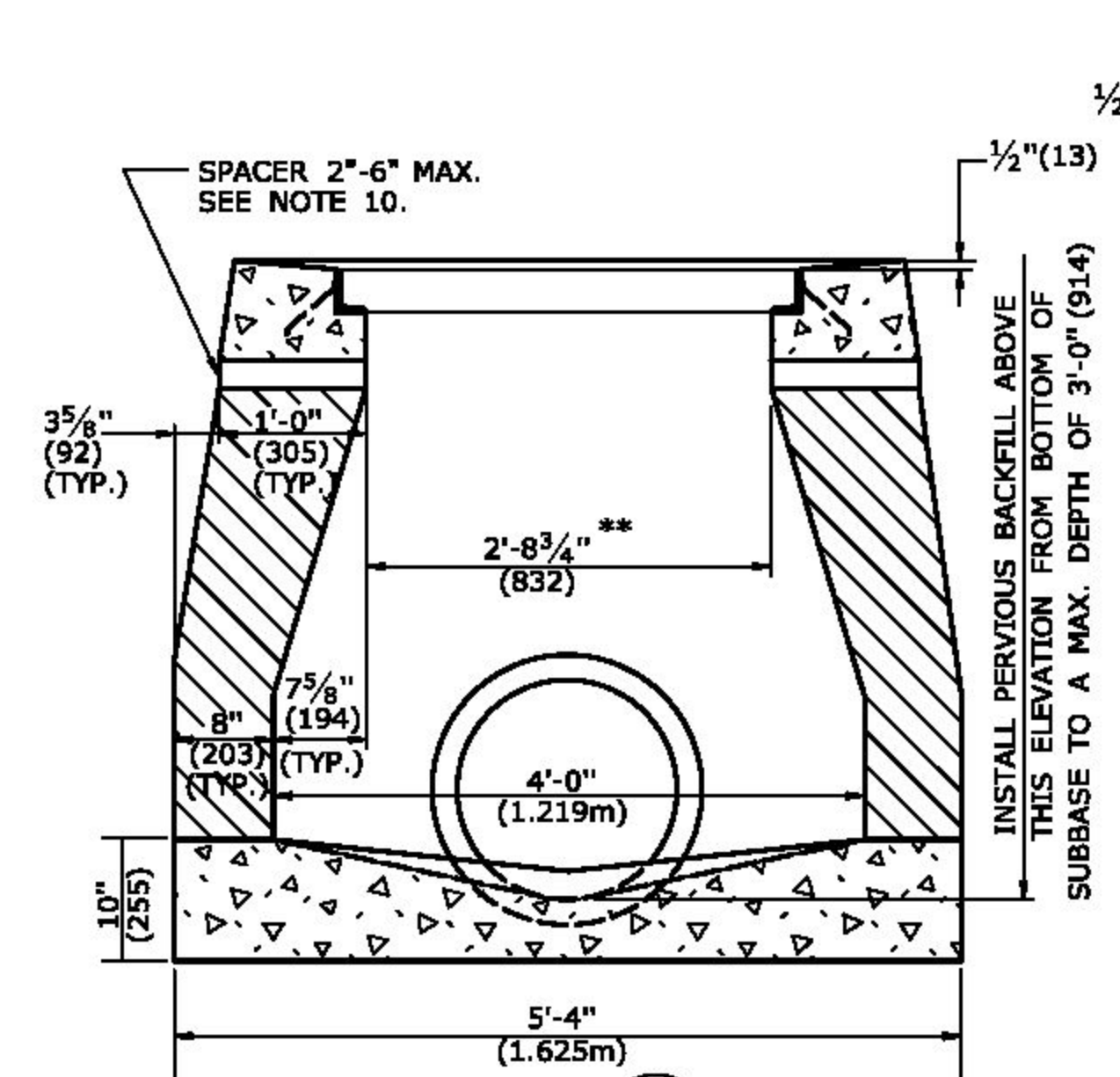
SECTION B
TYPE "C" CATCH BASIN



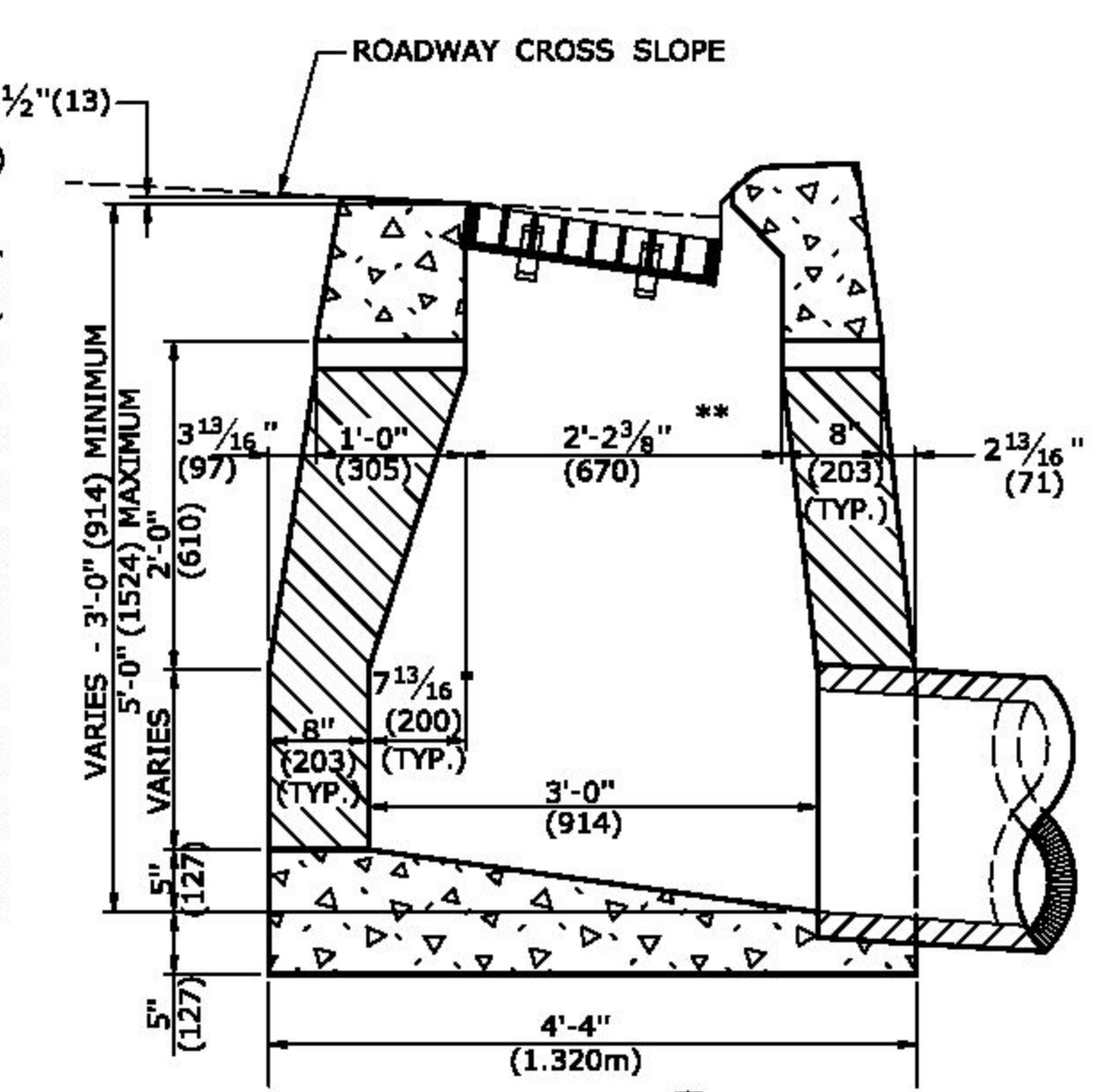
FOR CATCH BASINS IN A LINE OF 4" (102) CONCRETE PARK CURBING OR 4" (102) BITUMINOUS CONCRETE PARK CURBING
FOR CATCH BASINS WHERE NO CURBING OF ANY TYPE EXISTS OR IS PROPOSED
FOR CATCH BASINS IN A LINE OF 6" (152) CONCRETE CURBING OR 6" (152) STONE CURBING
FOR CATCH BASINS IN A LINE OF 6" (152) BITUMINOUS 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)

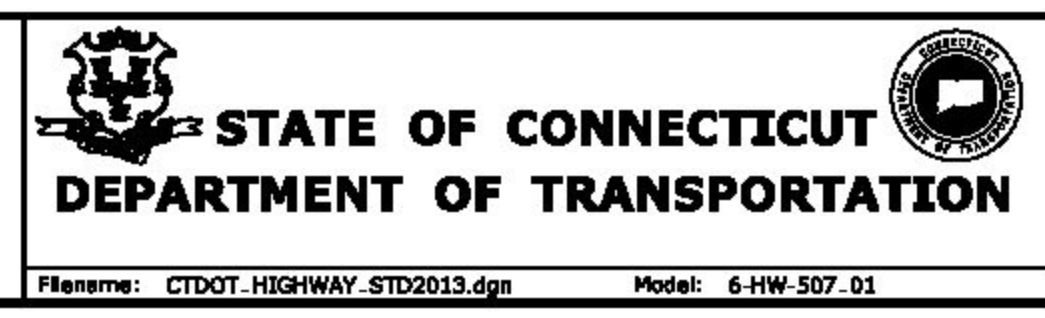


SECTION B
TYPE "C" DROP INLET

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	-
-	-	-	-
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.

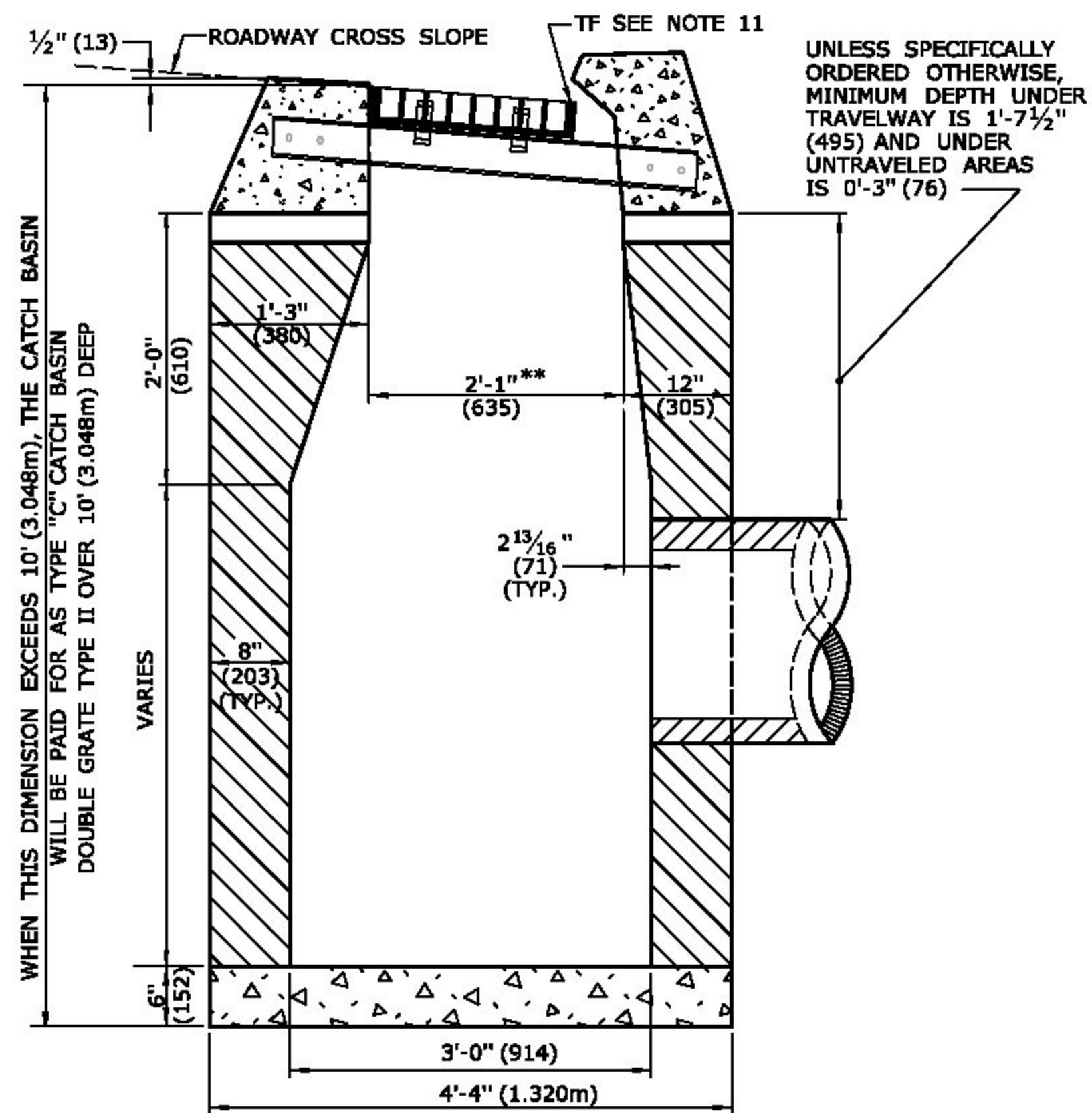
NOT TO SCALE



SUBMITTED BY: NAME/DATE/TIME:
APPROVED BY: NAME/DATE/TIME:
James H. Norman
2013.07.24 14:39:55-04'00'

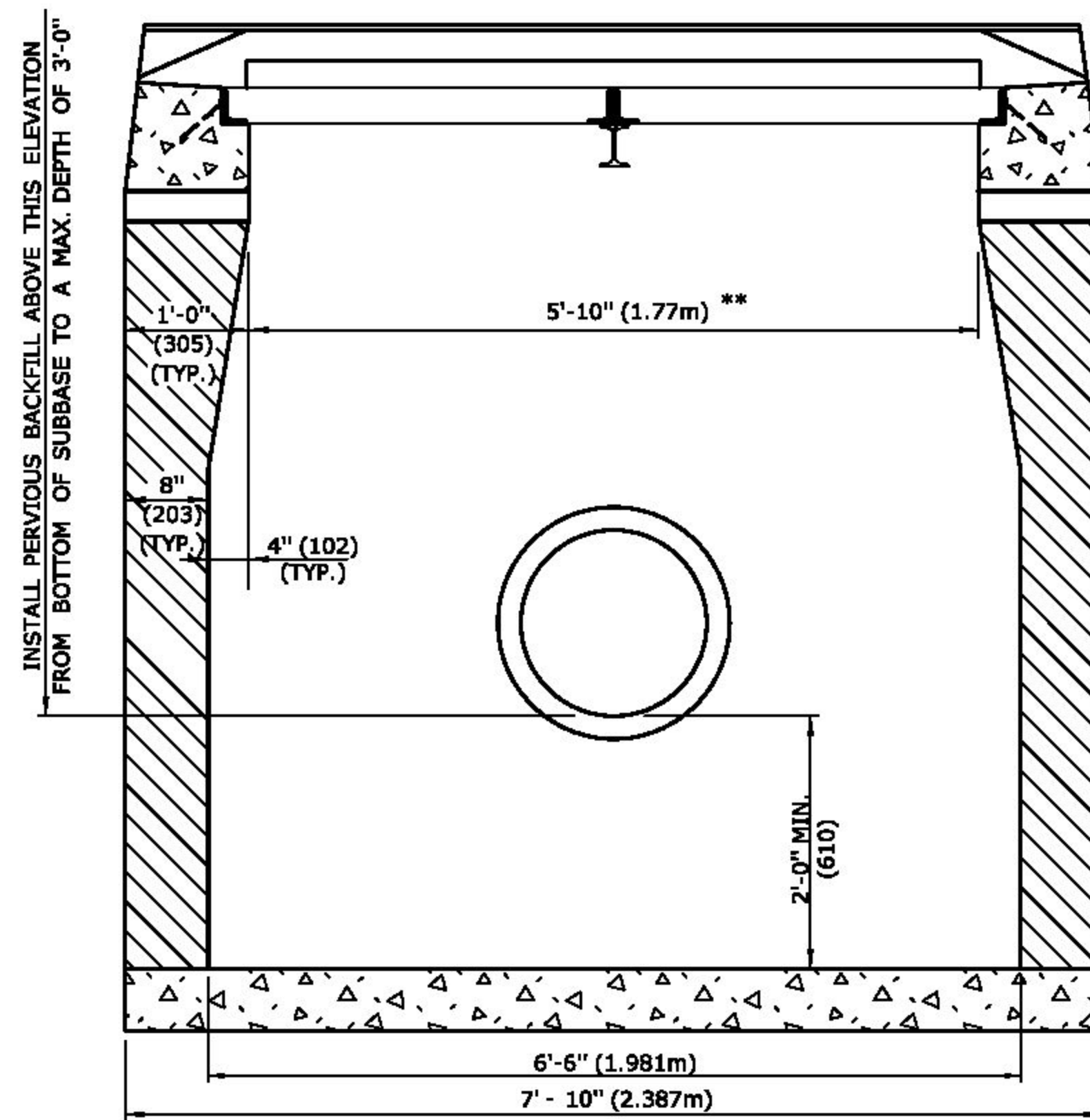
CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
TYPE "C", "C-L" & DROP INLET CATCH BASIN
STANDARD SHEET NO.:
HW-507_01

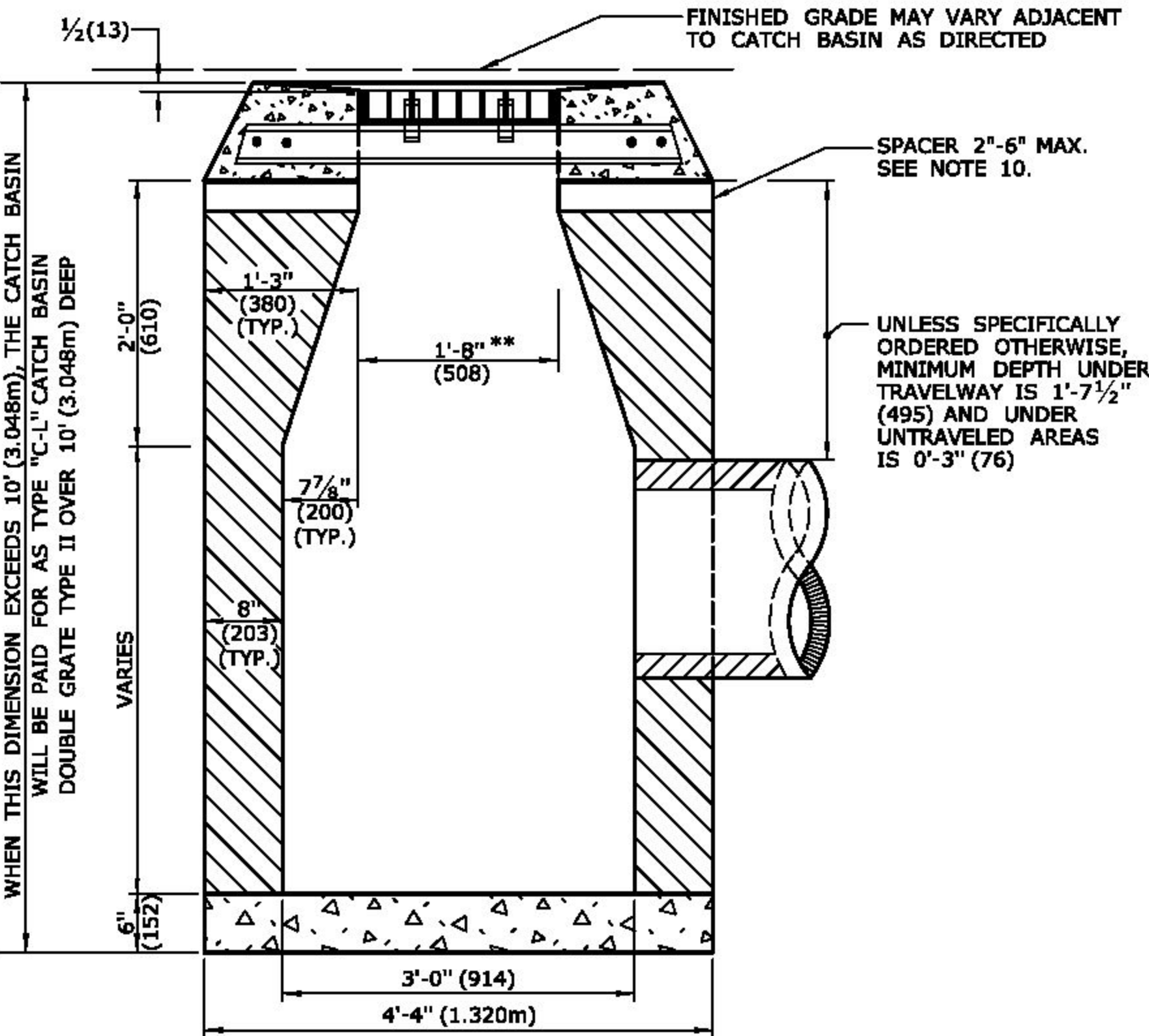


SECTION B

TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II

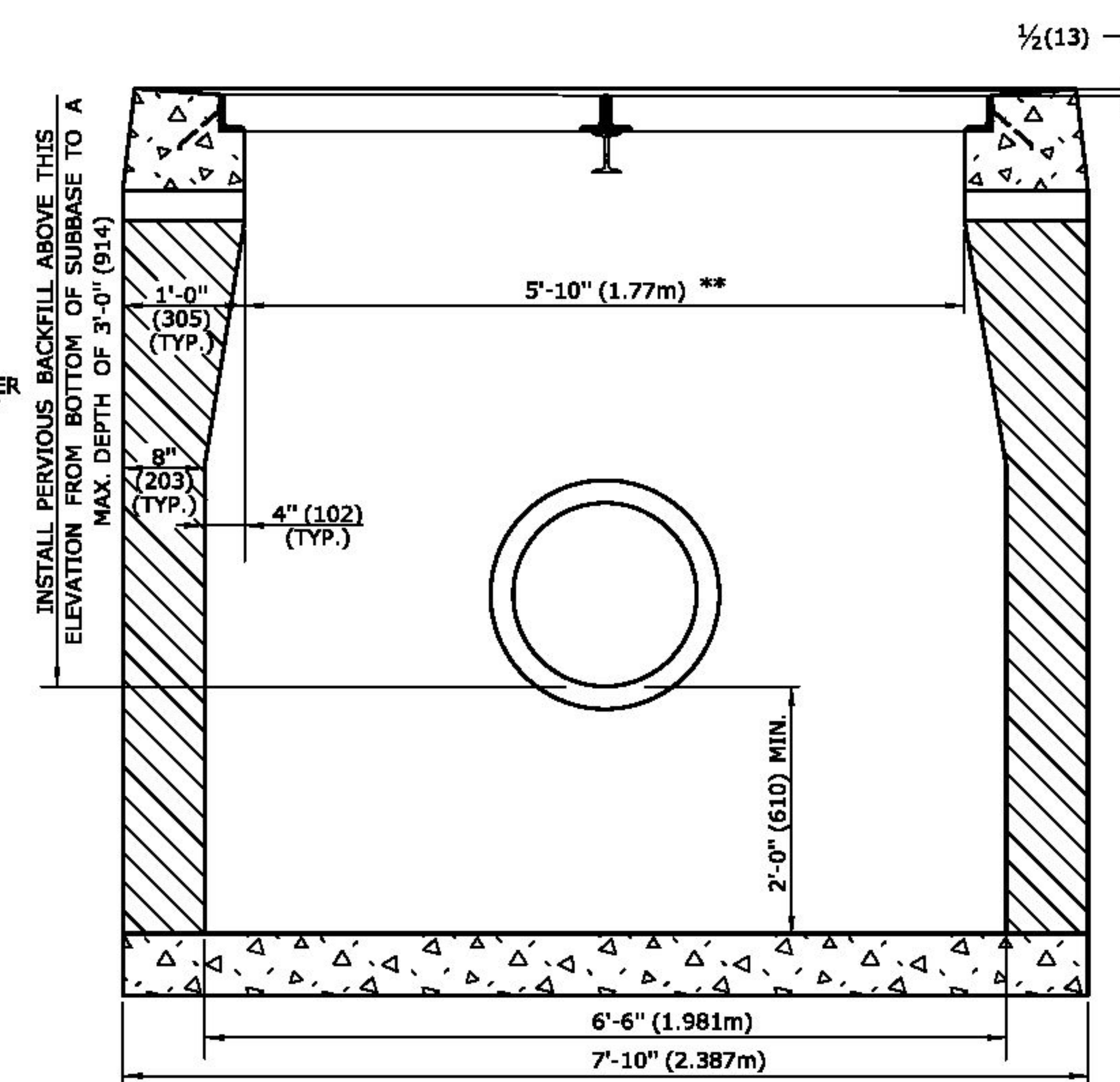


SECTION A



SECTION B

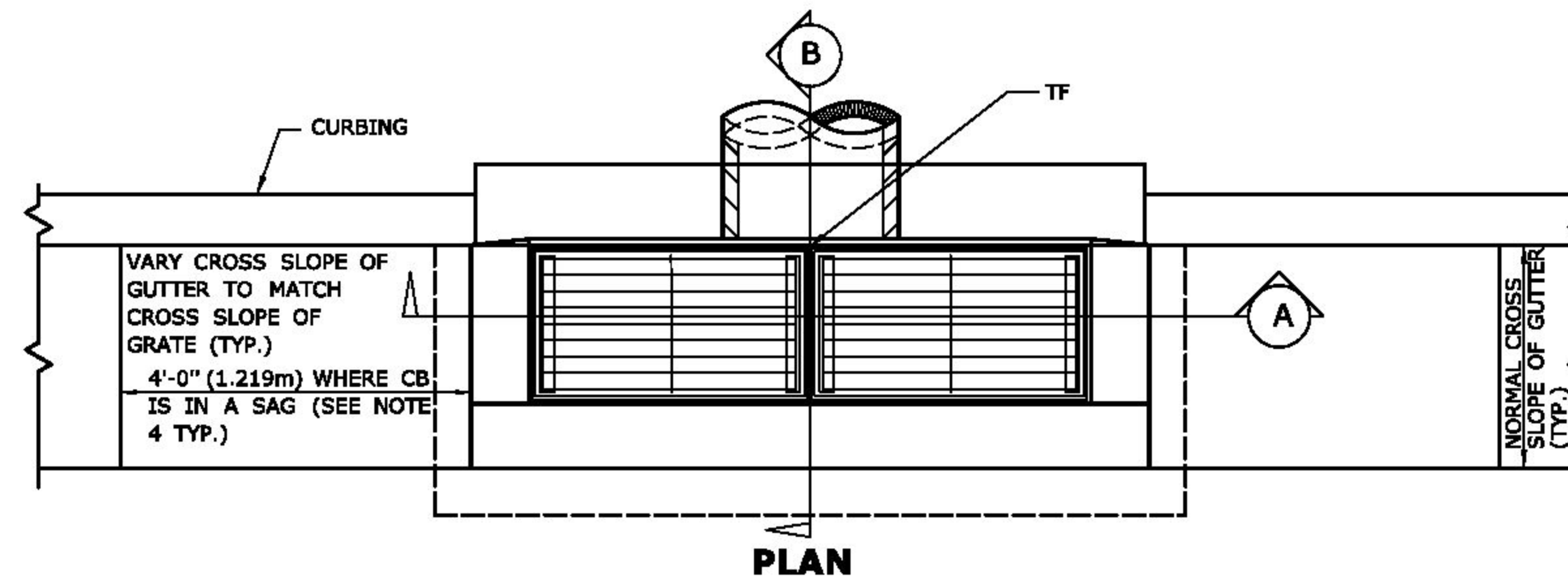
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II



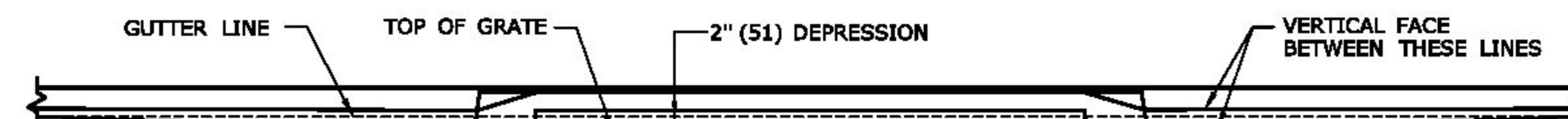
SECTION A

GENERAL NOTES:

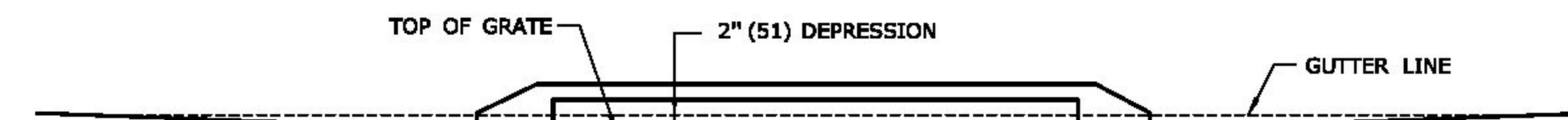
1. FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507_08.
2. USE APPROPRIATE CONCRETE TOP FOR CURBING SHOWN ON PLANS. IF CURBING IS NOT SPECIFIED ON THE PLANS, IT SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER.
3. ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH 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.
4. USE 6'-0" (1.830m) ON UPGRADE SIDE OF CONTINUOUS GRADE AND 1'-0" (305) ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED.
5. 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. CORRELLING SHALL BE PERMITTED TO A MAXIMUM OF 3" (75). NO PROJECTION SHALL EXTEND INSIDE THE LIMITS NOTED BY **.
6. 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)).
7. TO CONVEY SUBSURFACE DRAINAGE, OPENINGS SHALL BE FORMED IN THE FOUR WALLS AT OR IMMEDIATELY ABOVE THE BOTTOM OF THE PERVIOUS BACKFILL.
8. MINIMUM CONCRETE COMPRESSIVE STRENGTH OF F_c = 4000 PSI (27,580 kPa) SHALL BE OBTAINED PRIOR TO SHIPPING.
9. LATEST STATE OF CONNECTICUT'S STANDARD SPECIFICATIONS AND SUPPLEMENTALS SHALL GOVERN.
10. SPACER MAY BE CMU OR PRECAST WITH REQUIRED REINFORCING (RECOMMENDED BY THE MANUFACTURER) AS NEEDED TO PROVIDE PROPER GRADE SHOWN ON PLANS.
11. TOP OF FRAME (TF) ELEVATION SHALL BE MEASURED IN BETWEEN BOTH GRATES @ THE GUTTER.



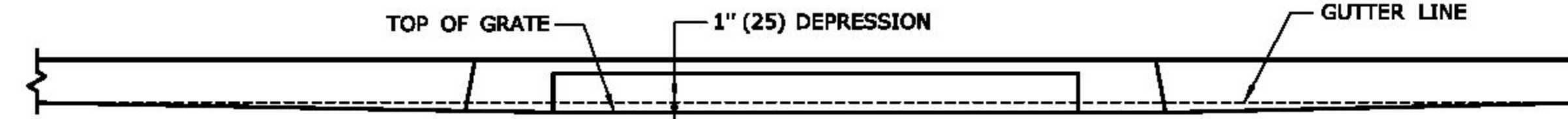
PLAN



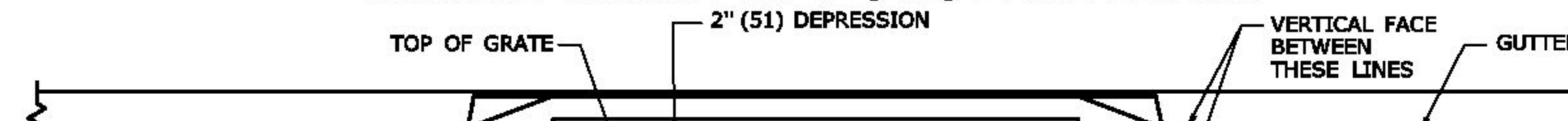
FOR CATCH BASINS IN A LINE OF 4" (102) CONCRETE PARK CURBING OR 4" (102) BITUMINOUS CONCRETE PARK CURBING



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

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: June2013.dwg Model: HW-507_03

SUBMITTED BY: [Signature]

DATE: 2013.07.24 11:02:07-0400

APPROVED BY: [Signature]

DATE: 2013.07.24 14:42:32-0400

James H. Norman

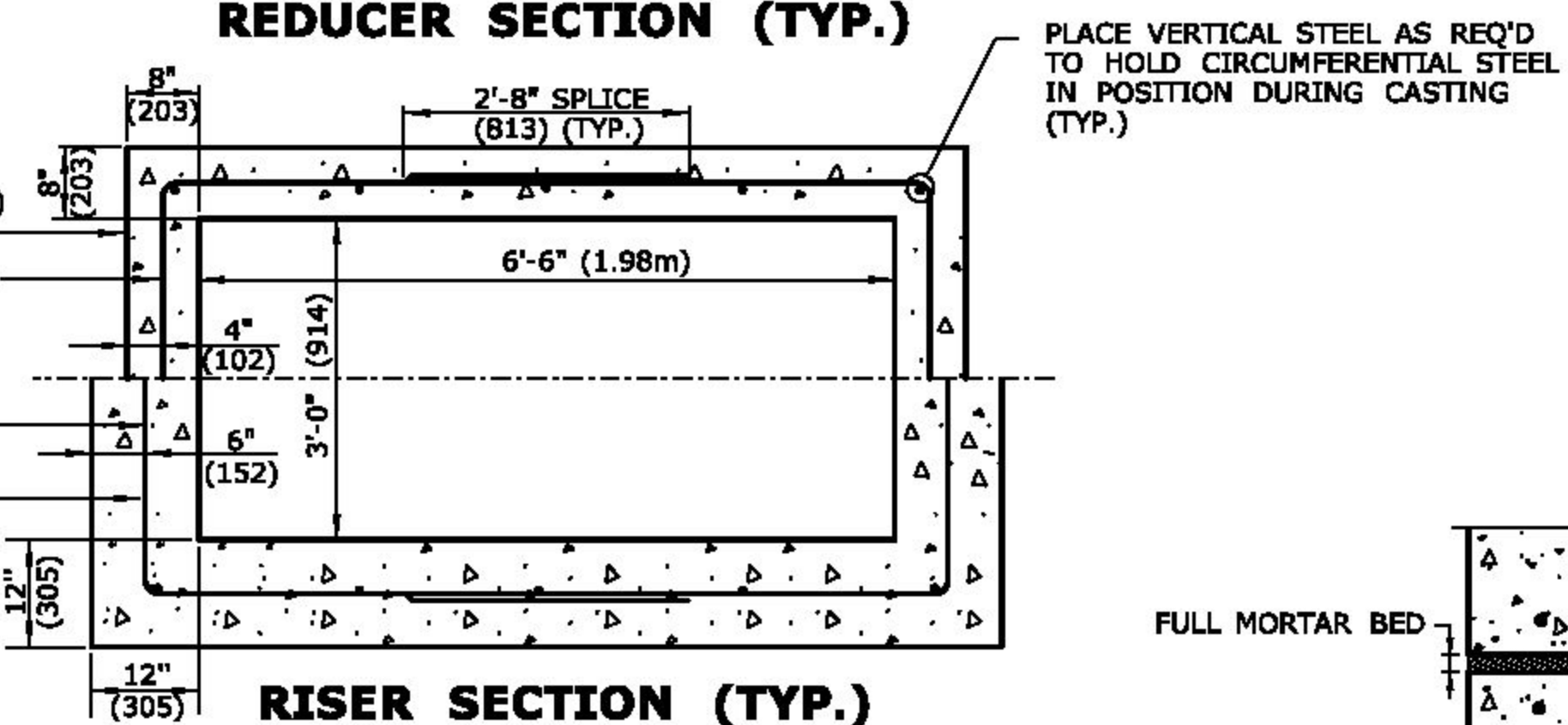
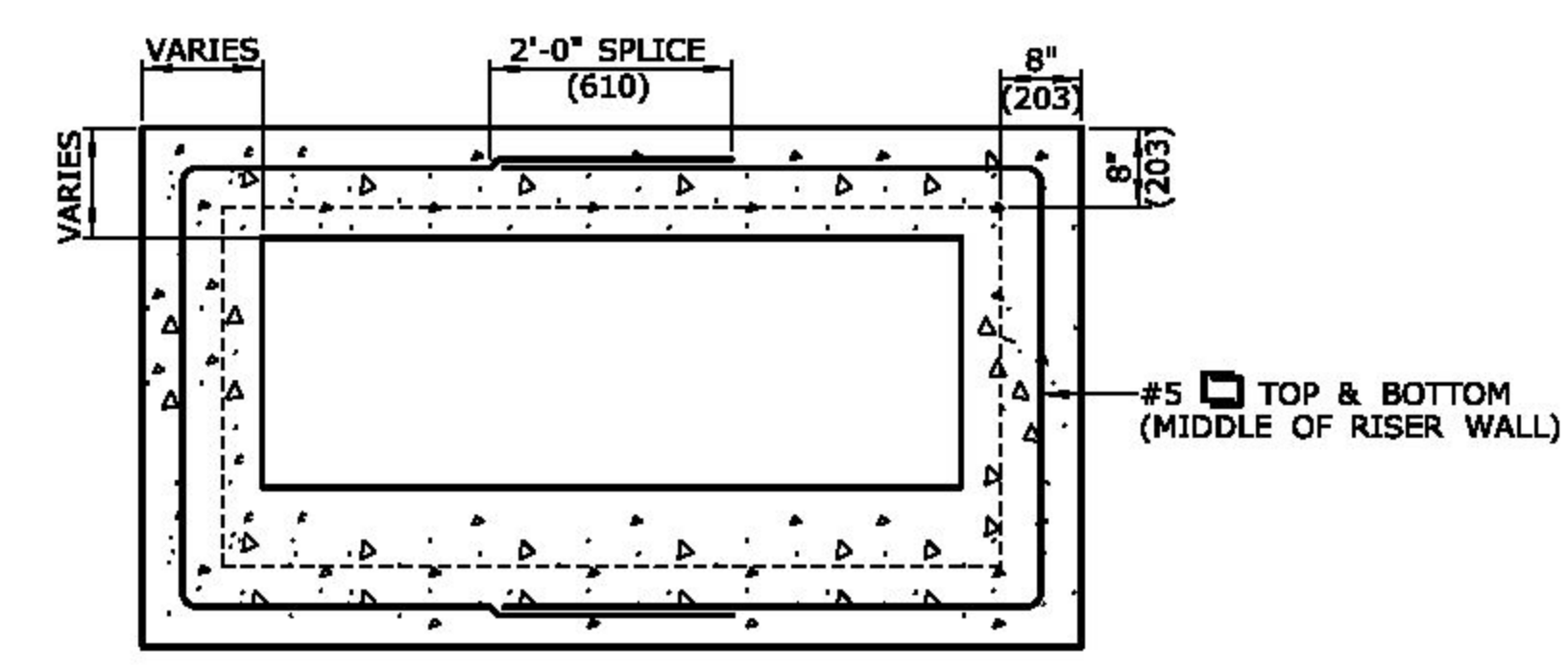
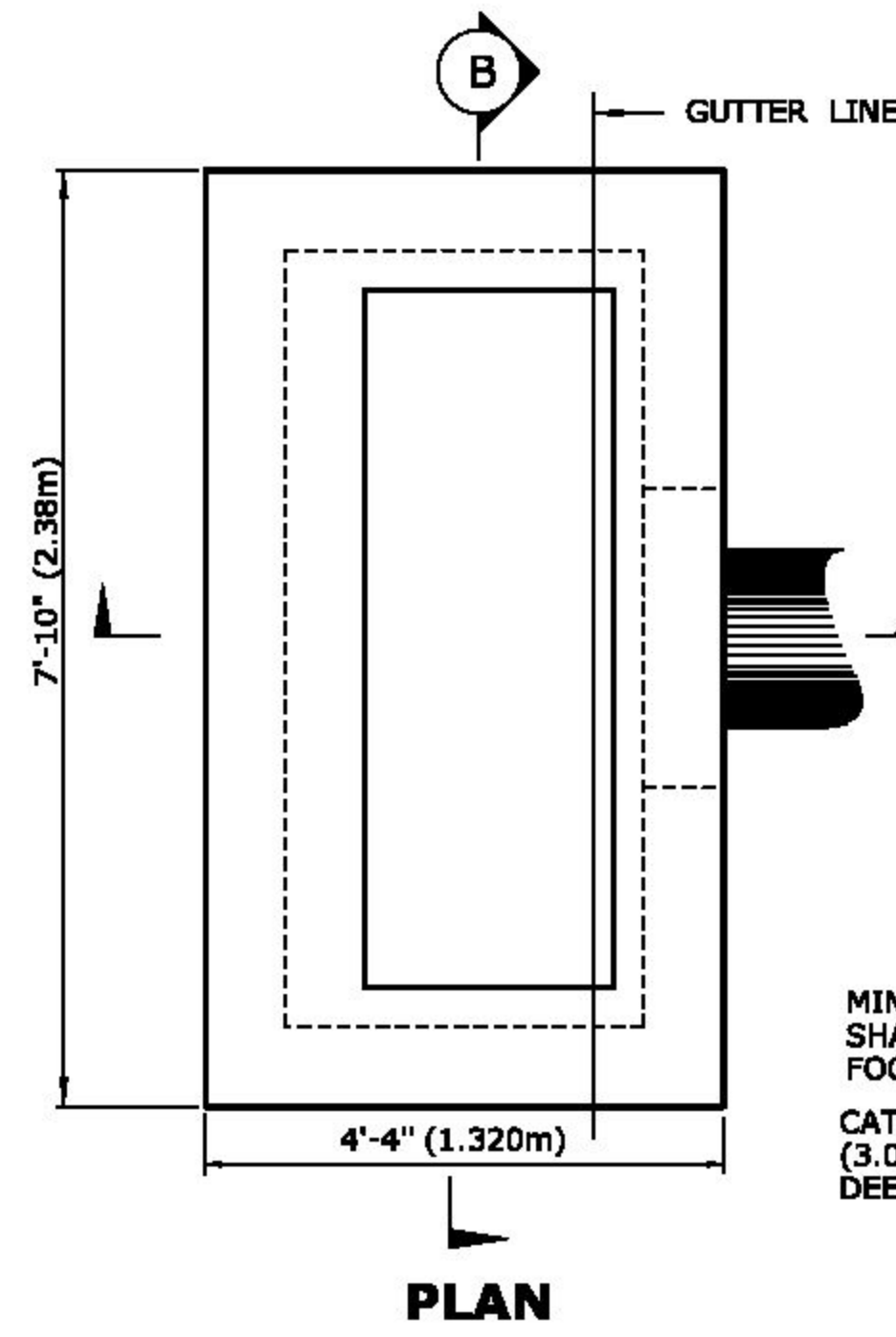
CTDOT
STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE:

TYPE "C", "C-L" & DOUBLE GRATE TYPE - II

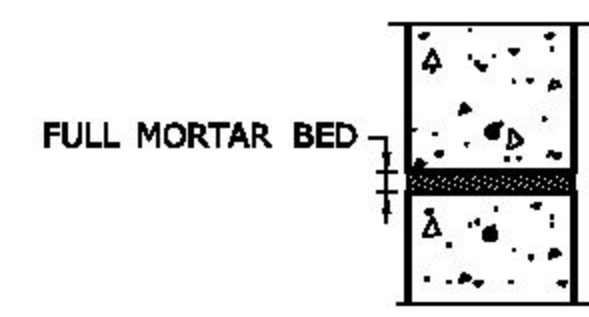
STANDARD SHEET NO.: HW-507_03



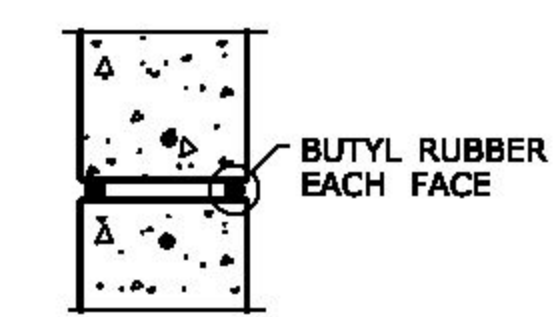
CATCH BASINS 10' (3.048m) DEEP OR LESS
 MINIMUM CIRCUMFERENTIAL STEEL AREA SHALL BE 0.44 SQUARE INCHES PER FOOT (2.84 sq cm per Meters)

CATCH BASINS GREATER THAN 10' (3.048m) AND LESS THAN 20' (6.096m) DEEP (SEE NOTES 6 AND 13)
 MINIMUM CIRCUMFERENTIAL STEEL AREA SHALL BE 0.44 SQUARE INCHES PER FOOT (2.84sq cm per Meter)

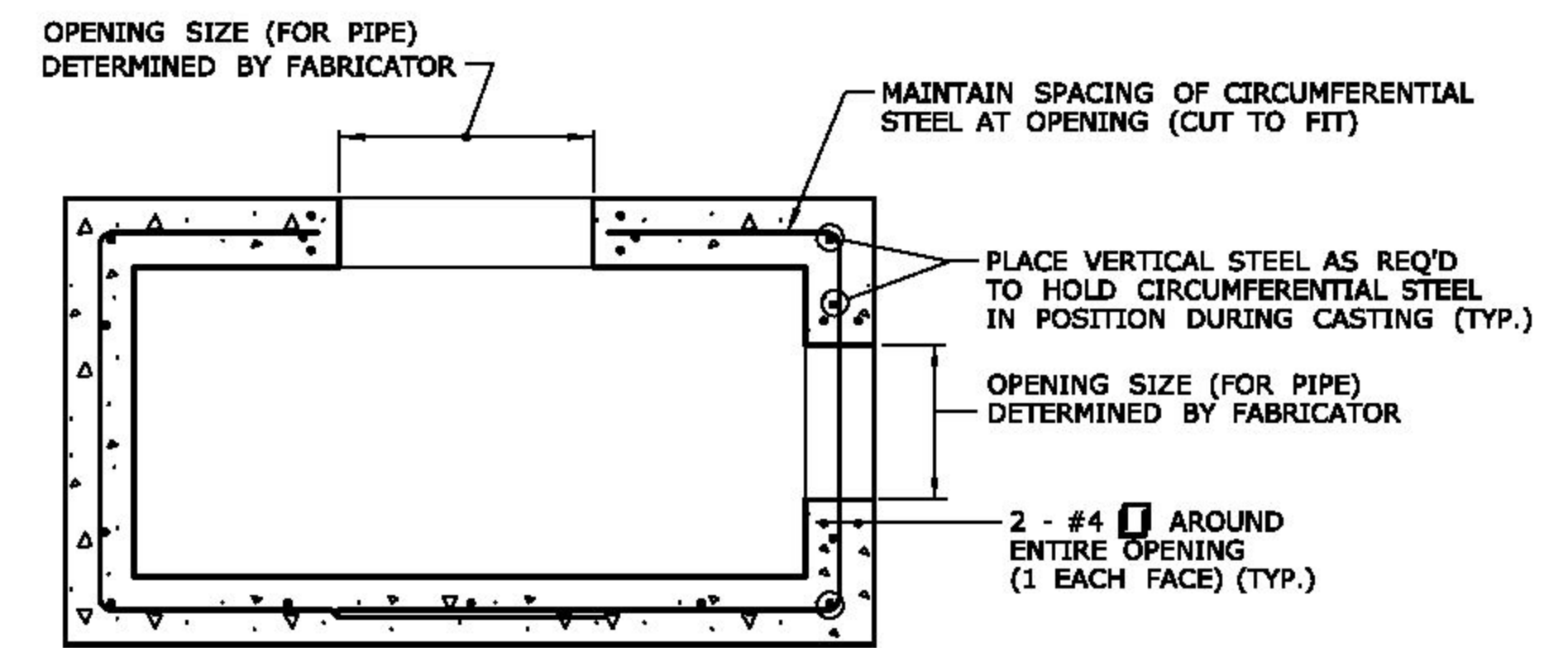
PLACE VERTICAL STEEL AS REQ'D TO HOLD CIRCUMFERENTIAL STEEL IN POSITION DURING CASTING (TYP.)



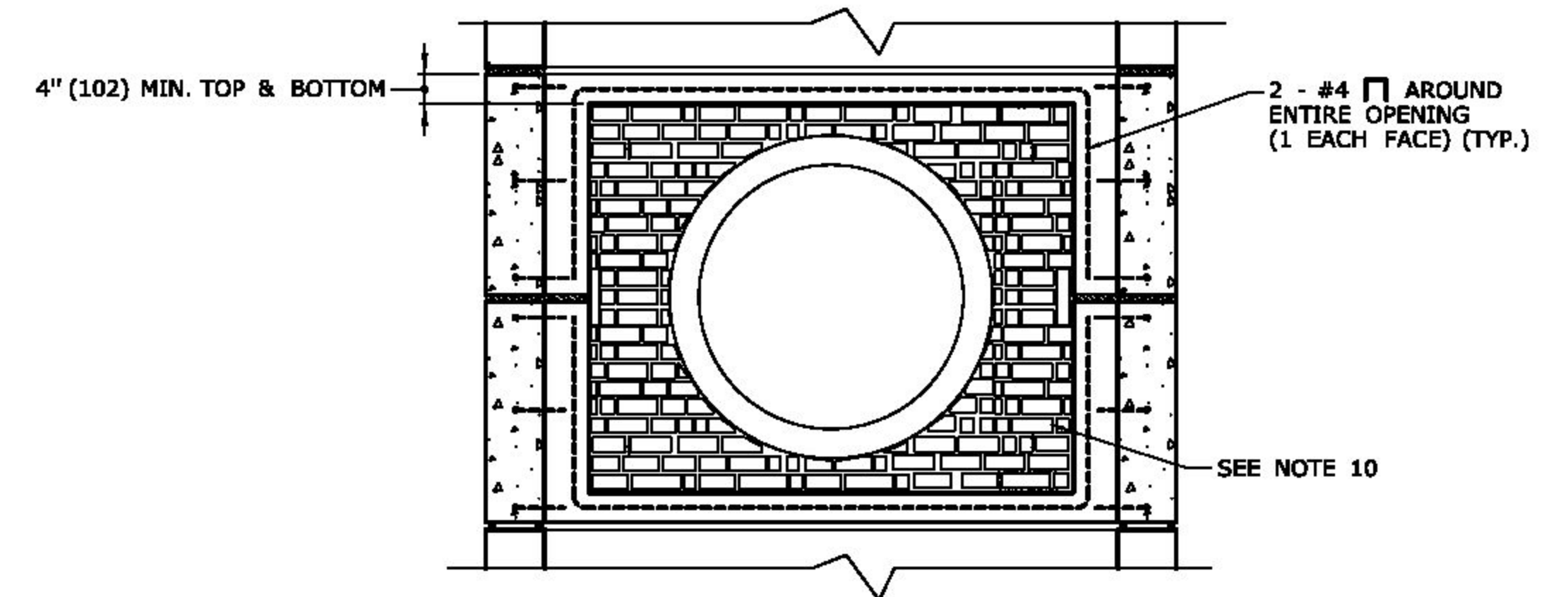
MORTAR JOINT DETAIL



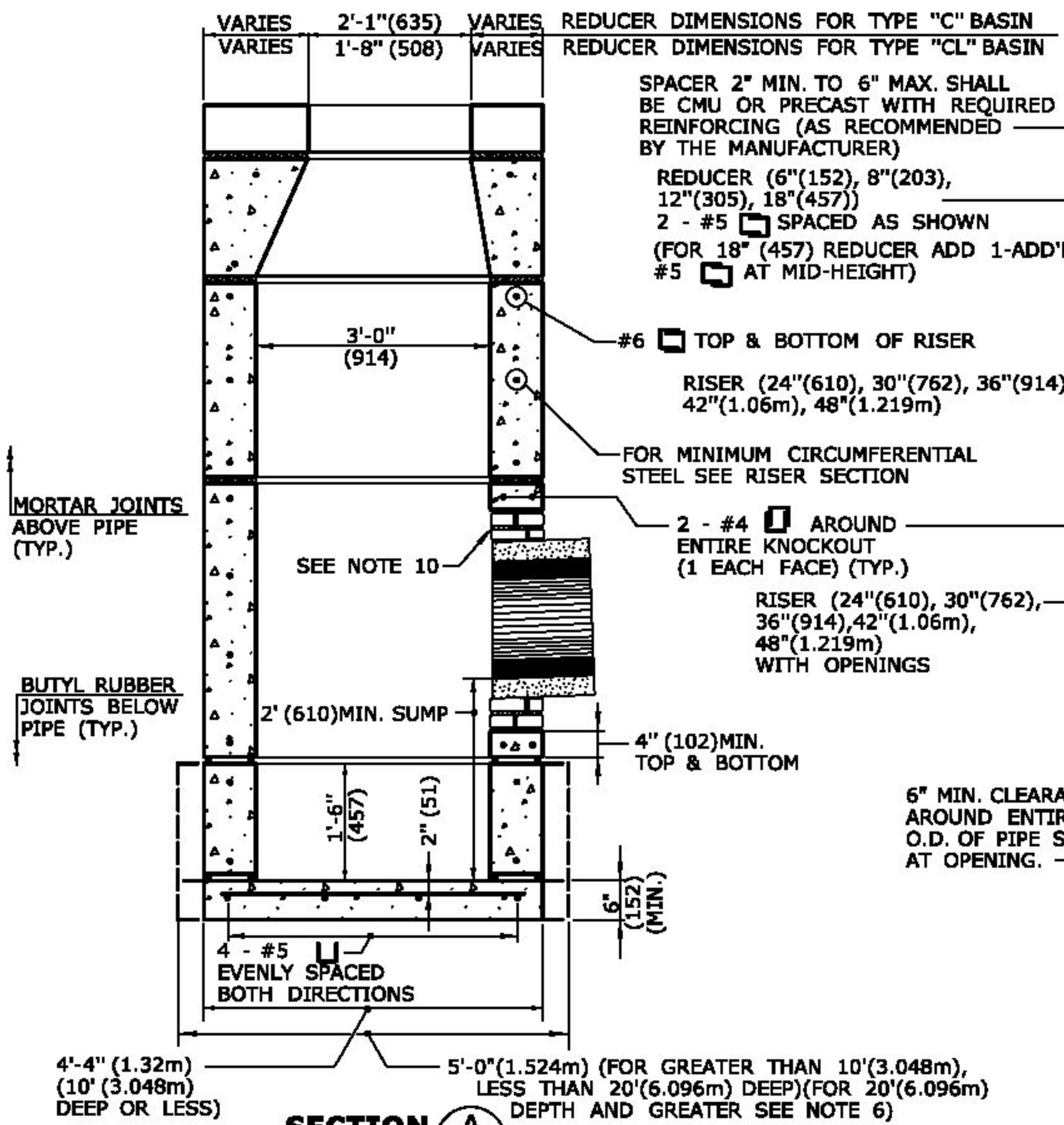
BUTYL RUBBER JOINT DETAIL



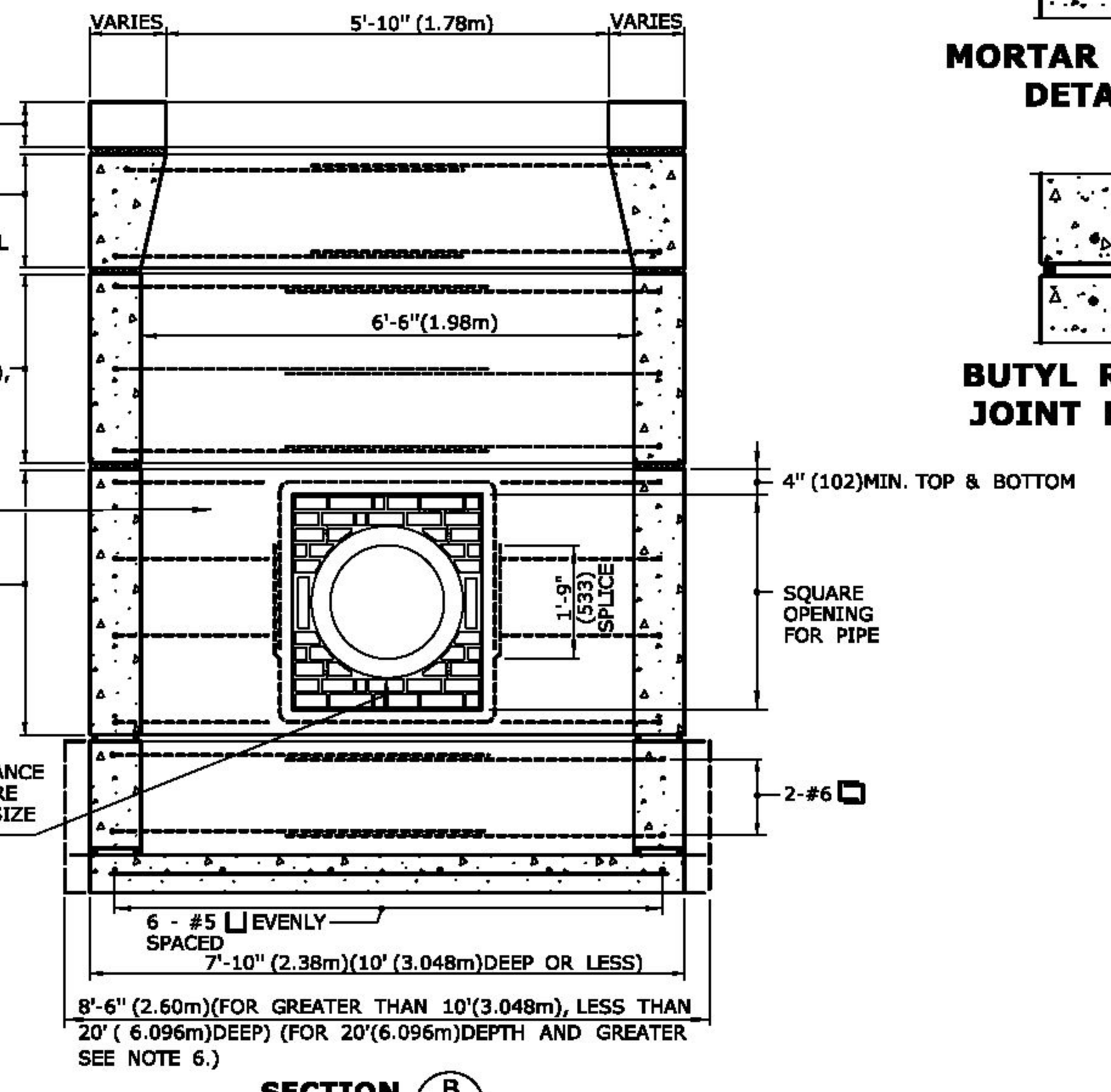
TYPICAL SECTION THRU SINGLE RISER WITH OPENINGS



DOUBLE RISER OPENING (TYP.) PIPES GREATER THAN 24" (610) O.D.



SECTION A



SECTION B

NOTE: REINFORCEMENT IN FAR FACE WALL NOT SHOWN FOR CLARITY

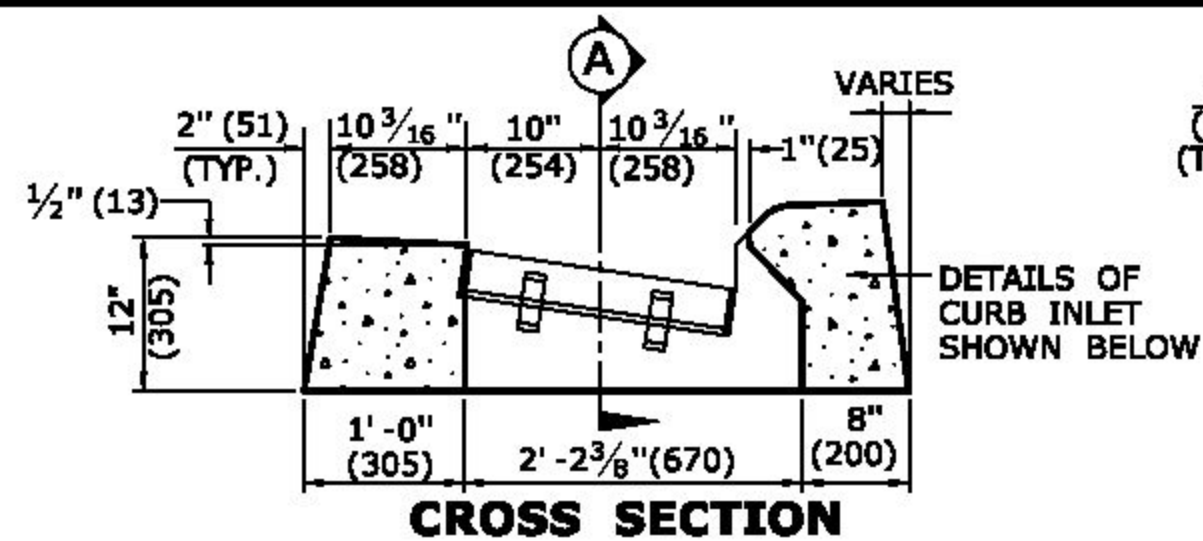
GENERAL NOTES:

1. REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60.
2. DETAILS ON THIS SHEET SHOW STANDARD REINFORCEMENT. WELDED WIRE FABRIC WITH AN AREA EQUAL TO OR GREATER THAN THE REINFORCING SHOWN MAY BE SUBSTITUTED.
3. ALL LAP SPLICES, DEVELOPMENT LENGTHS, BENDS FOR REINFORCEMENT, AND WELDED WIRE FABRIC SHALL CONFORM TO AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES.
4. ALL REINFORCEMENT SHALL HAVE A MINIMUM CLEAR COVER OF 2"(51), EXCEPT FOR BENEATH BOTTOM REINFORCEMENT IN TOP SLABS, WHERE THE MINIMUM MAY BE 1 1/2"(38).
5. MINIMUM CONCRETE COMPRESSIVE STRENGTH $F_c' = 4000$ PSI (27,580 kPa) SHALL BE OBTAINED PRIOR TO SHIPPING.
6. BASES AND RISERS AT A DEPTH OF 20' (6.096m) AND GREATER SHALL BE DESIGNED BY THE CONTRACTOR AND WORKING DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
7. SEE STANDARD SHEET HW-507_08 FOR CATCH BASIN FRAMES AND GRATES.
8. FOR DOT MAINTENANCE PERSONNEL, RISERS MAY BE PREFABRICATED WITH PIPE OPENINGS IN ALL FOUR WALLS. ADEQUATE REINFORCING AROUND PIPE OPENINGS CONFORMING TO THESE PLANS SHALL BE PROVIDED. ANY RISERS USED WHERE A PIPE OPENING IS TO REMAIN IN PLACE, MUST BE FORMED UP WITH BRICK AS DIRECTED BY THE ENGINEER.
9. RISERS SHALL NEVER HAVE CORNER PIPE ENTRIES. WHERE THE ALIGNMENT OF THE PIPE WITH RESPECT TO THE CORNER OF THE CATCH BASIN CANNOT BE CHANGED, A ROUND STRUCTURE CONFORMING TO ASTM C478 SHALL BE USED. REINFORCING FOR THE ROUND TOP SLAB WITH A RECTANGULAR OPENING SHALL CONFORM TO DETAILS SHOWN HERE.
10. ALL PIPE OPENINGS SHALL BE CLOSED USING MATERIALS WHICH CONFORM TO STATE OF CONNECTICUT STANDARD SPECIFICATIONS SECTION M.08.02. IF THE ENGINEER DETERMINES THAT THE CLOSURE OF ANY PIPE OPENING IS UNSATISFACTORY, THE CONTRACTOR SHALL RECLOSE SAID OPENING AT NO ADDITIONAL COST TO THE STATE. OPENINGS FOR PIPE SHALL NOT RESULT IN A REDUCED WALL THICKNESS.
11. THE LATEST STATE OF CONNECTICUT STANDARD SPECIFICATIONS AND SUPPLEMENTALS SHALL GOVERN.
12. FOR ADDITIONAL DETAILS, SEE OTHER CATCH BASIN SHEETS.
13. WALL THICKNESS OF ALL CB'S OVER 10' (3.048m) DEEP SHALL BE INCREASED TO 12" (305) THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. (THE 12" (305) THICKNESS WILL START AFTER THE FIRST 10' (3.048m).)
14. BUTYL RUBBER JOINT SEAL SHALL CONFORM TO AASHTO M-198 AND MORTAR SHALL CONFORM TO THE LATEST STATE OF CONNECTICUT STANDARD SPECIFICATIONS MATERIAL SECTION M11.04.

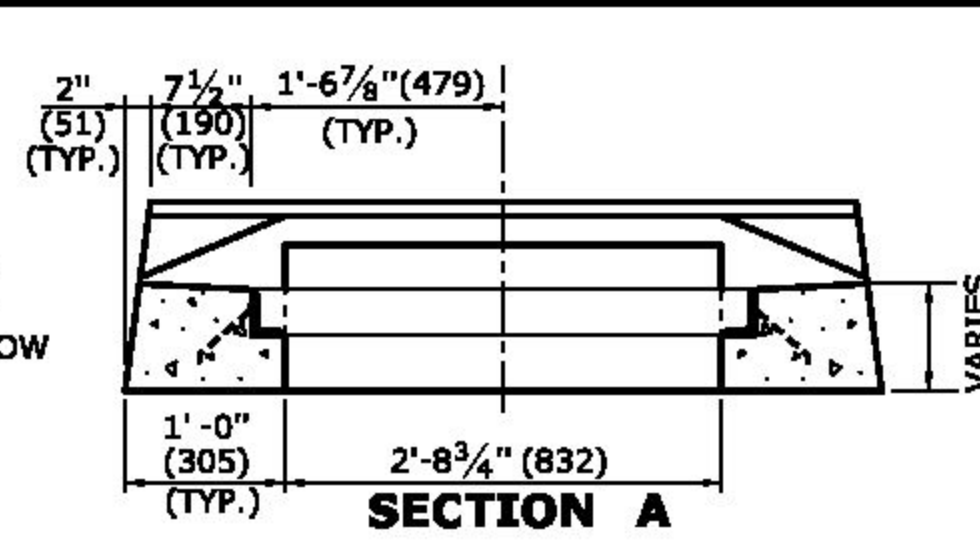
PRECAST CONCRETE TYPE "C" & "C-L" DOUBLE GRATE TYPE II CATCH BASIN
 (UNDER 10' (3.048m) DEEP SHOWN)

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

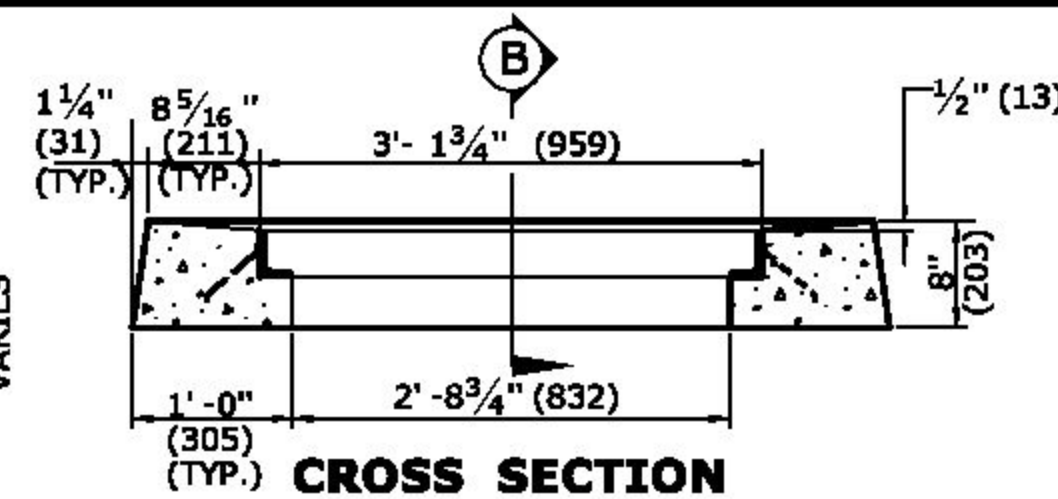
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		NOT TO SCALE		SUBMITTED BY: NAME/DATE/TIME: Leo Fontaine 2011.11.03 11:46:39 -04'00'		STANDARD SHEET TITLE: CTDOT STANDARD SHEET TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE-II		STANDARD SHEET NO.: HW-507_06	
2 10/24/11 CHANGE WORD KNOCKOUT TO OPENING & ADD SPACER NOTE		STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		APPROVED BY: NAME/DATE/TIME: James H. Norman 2011.11.10 07:59:36 -05'00'		OFFICE OF ENGINEERING			
1 6/01/10 CHANGE NOTE 7 TO REFERENCE HW-507_08		File name: working_revisions.dgn Model: 11-HW-507_06							
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 10/22/2011						



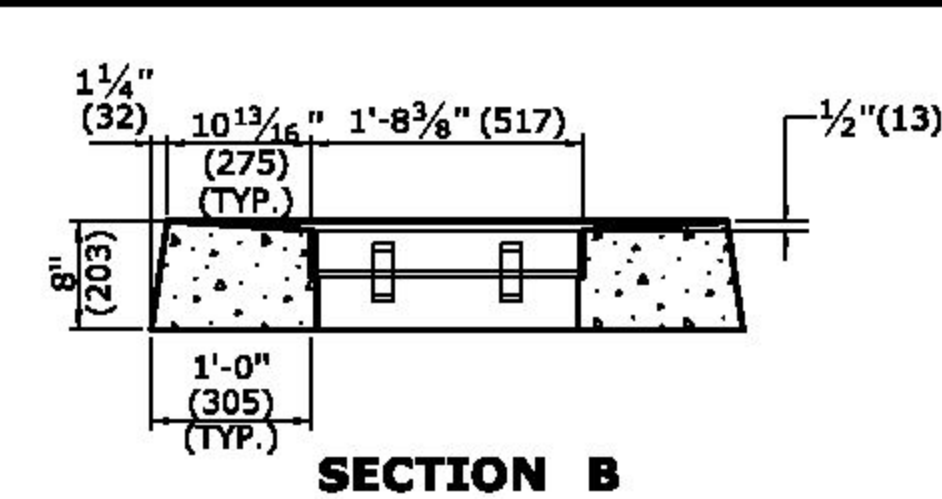
CROSS SECTION
TYPE "C" CATCH BASIN TOP



SECTION A
TYPE "C-L" CATCH BASIN TOP



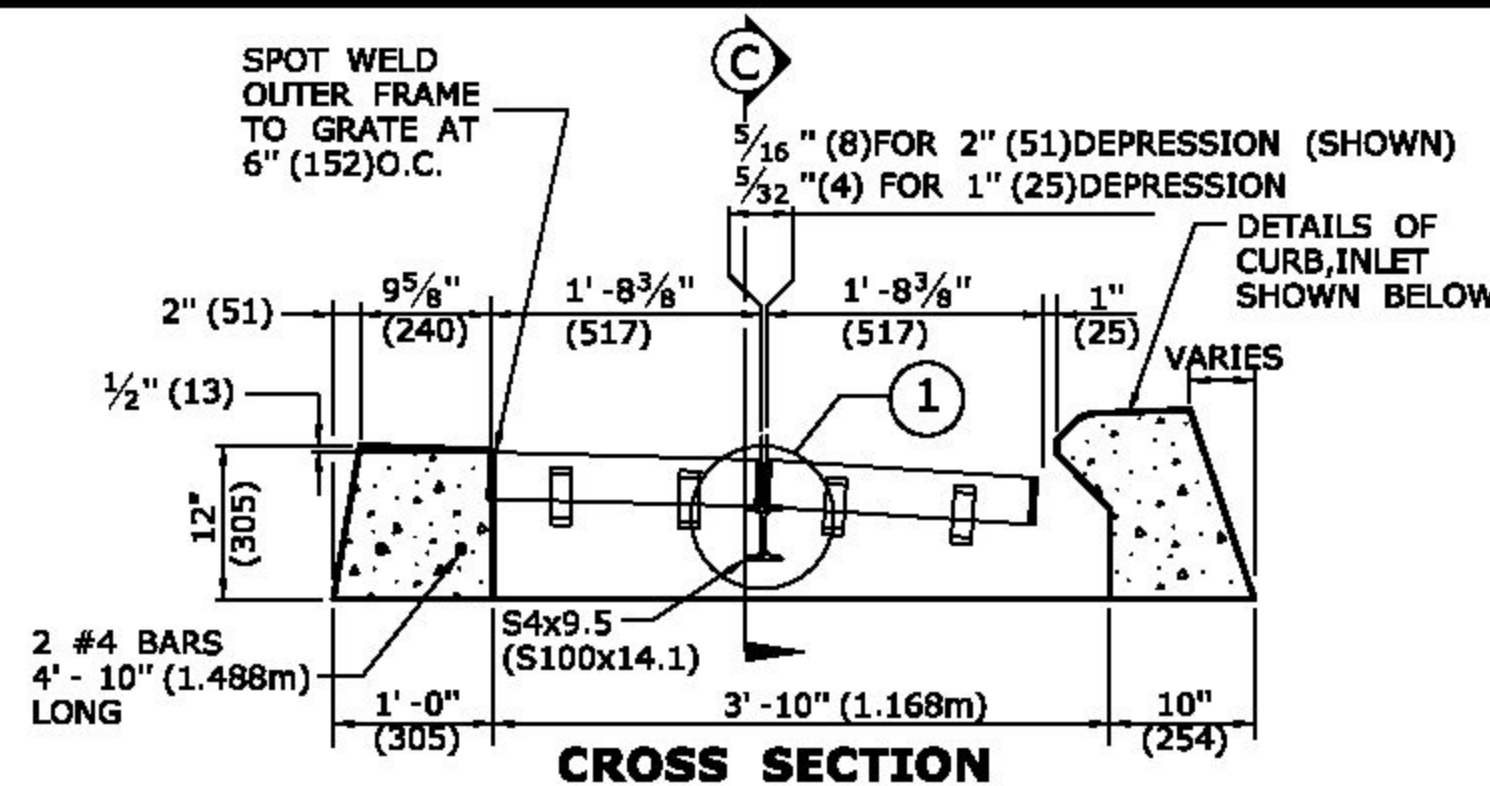
CROSS SECTION



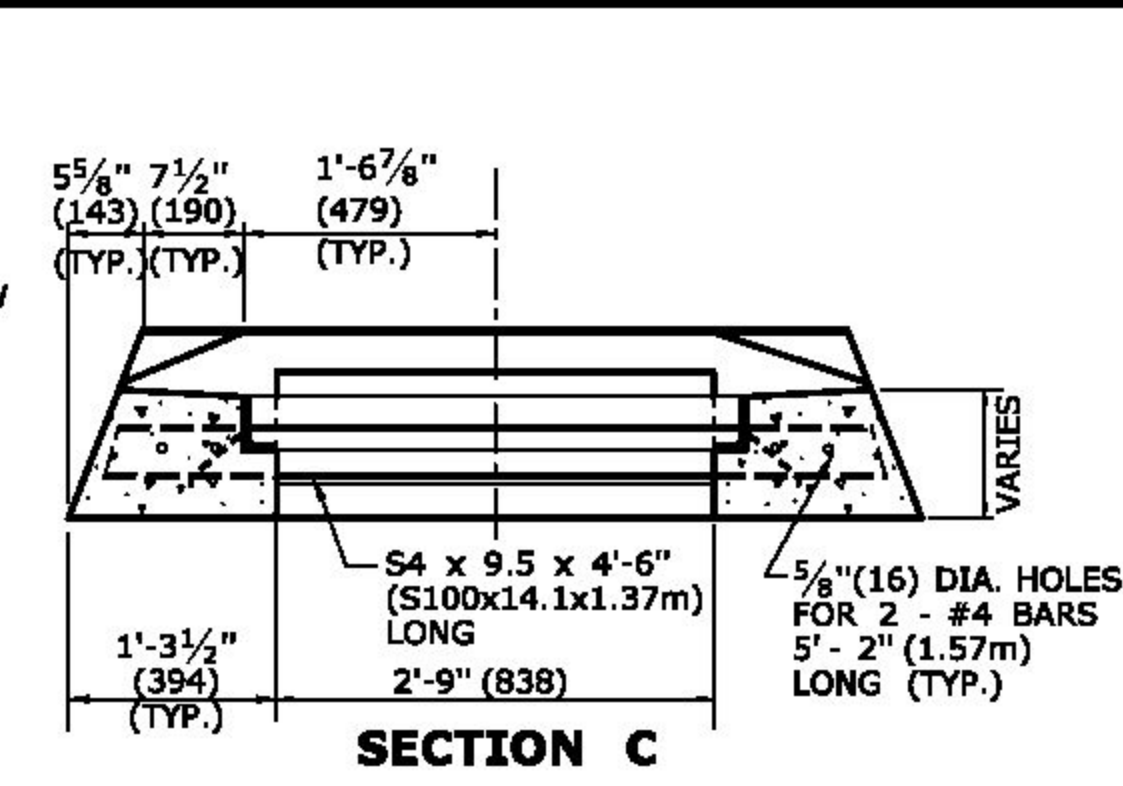
SECTION B

GENERAL NOTES:

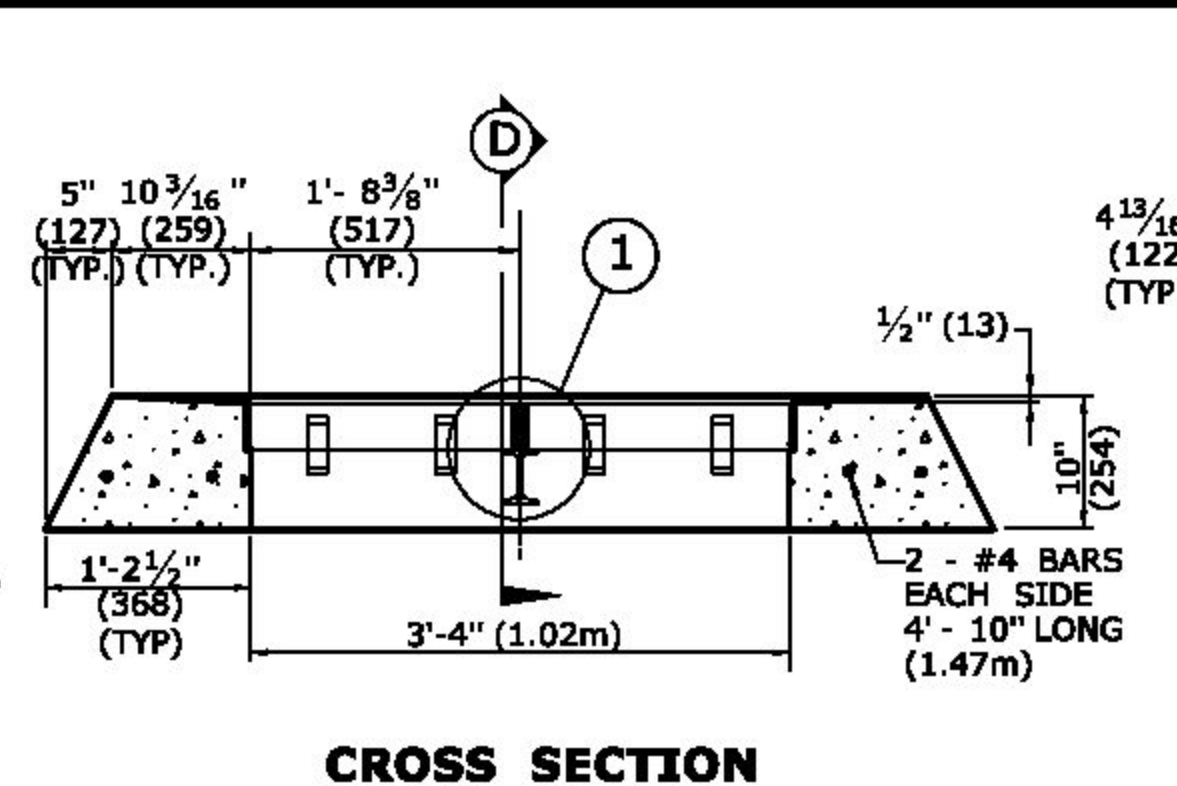
- FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507_08.
- ALL STEEL, EXCEPT REINFORCING BARS, SHALL BE GALVANIZED IN CONFORMANCE WITH SECTION M06.03 OF CONNECTICUT'S STANDARD SPECIFICATIONS.
- ALL BARS SHALL HAVE A MINIMUM 2" (51) COVER.



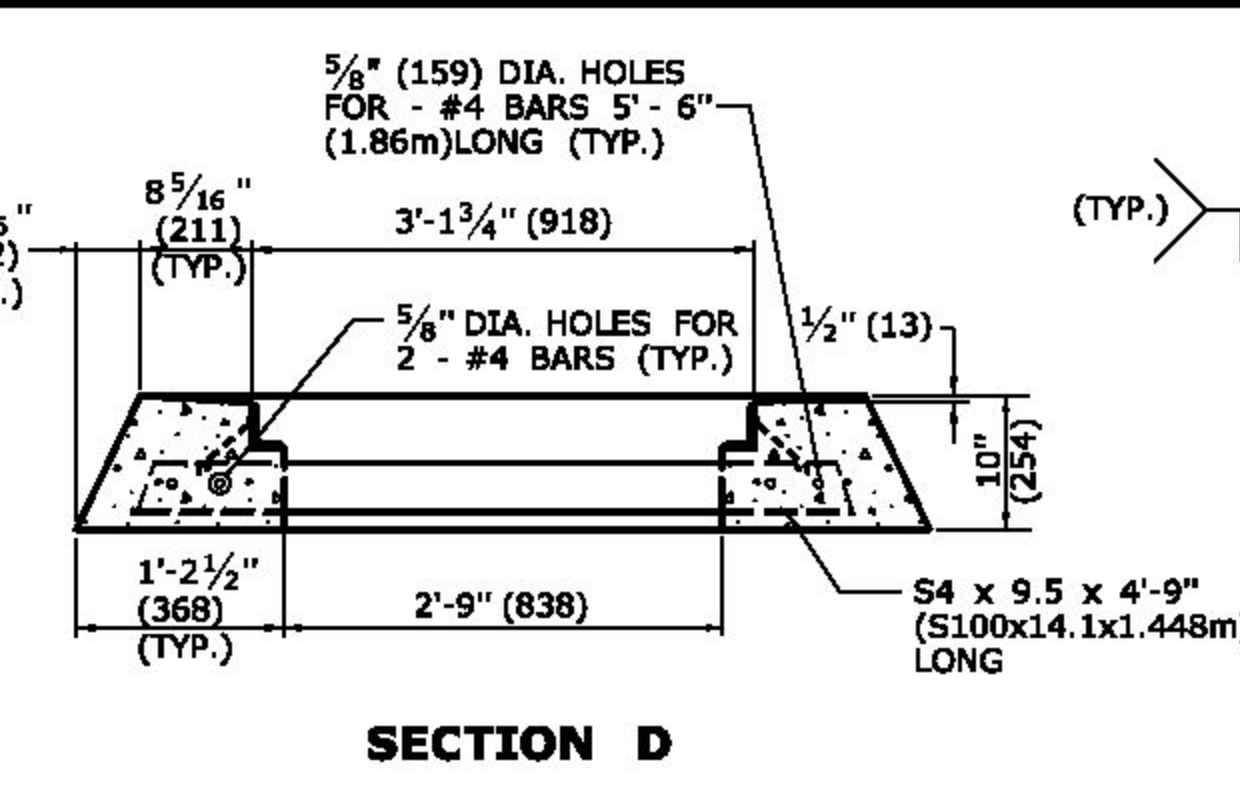
CROSS SECTION
TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I TOP



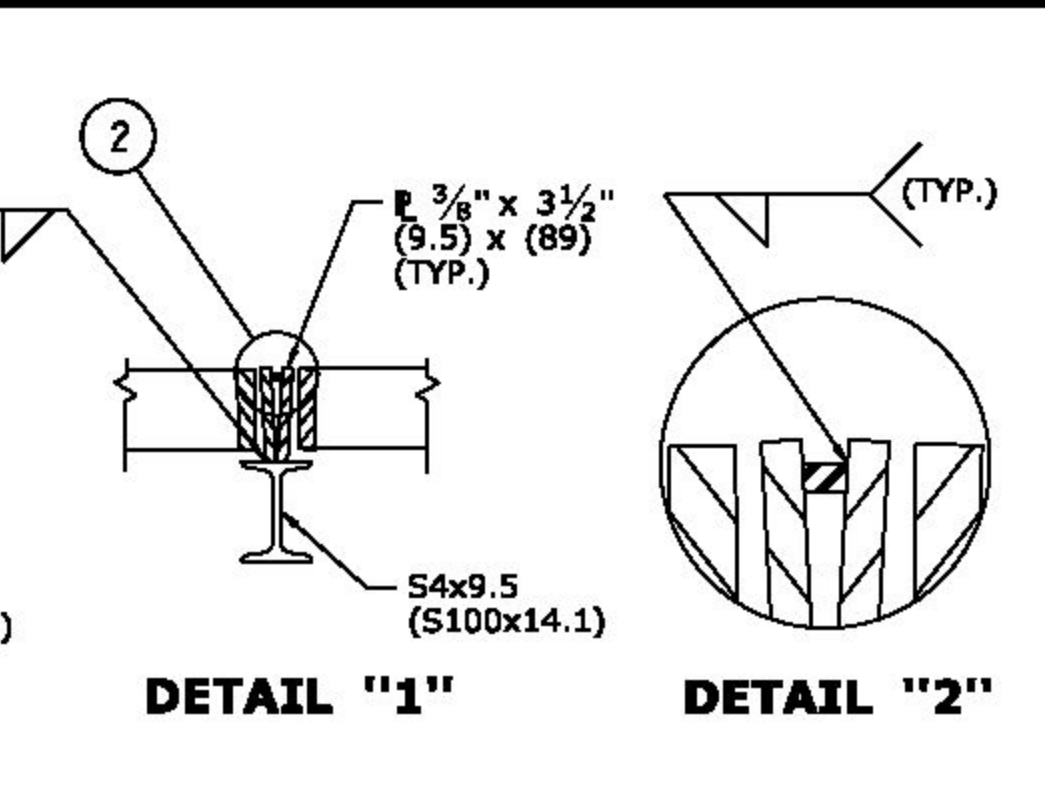
SECTION C



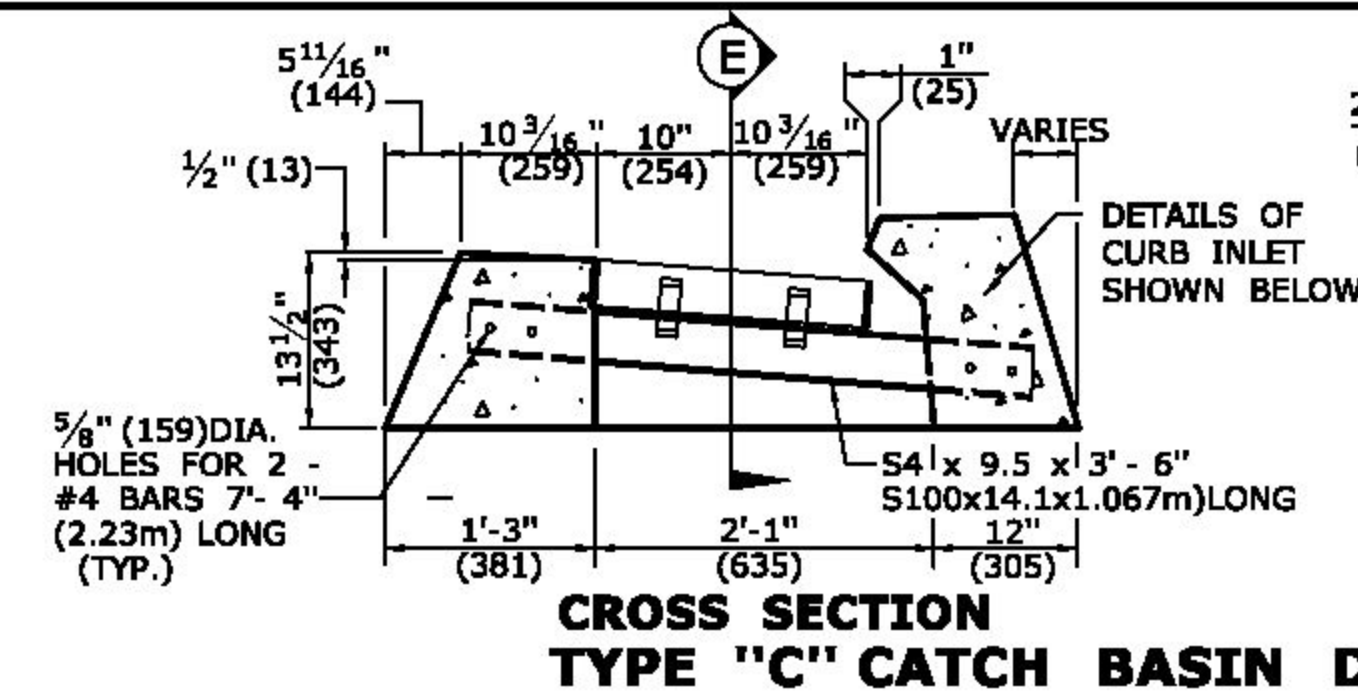
CROSS SECTION
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE I TOP



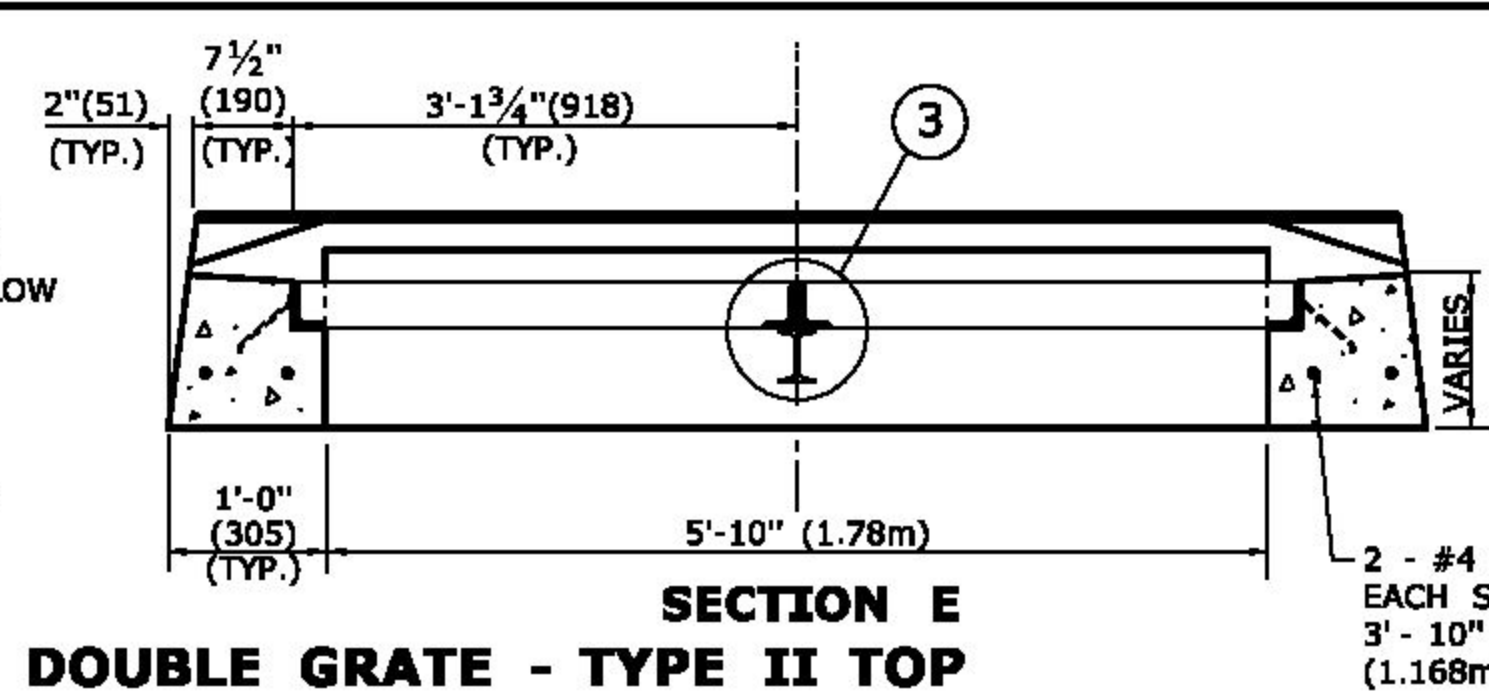
SECTION D



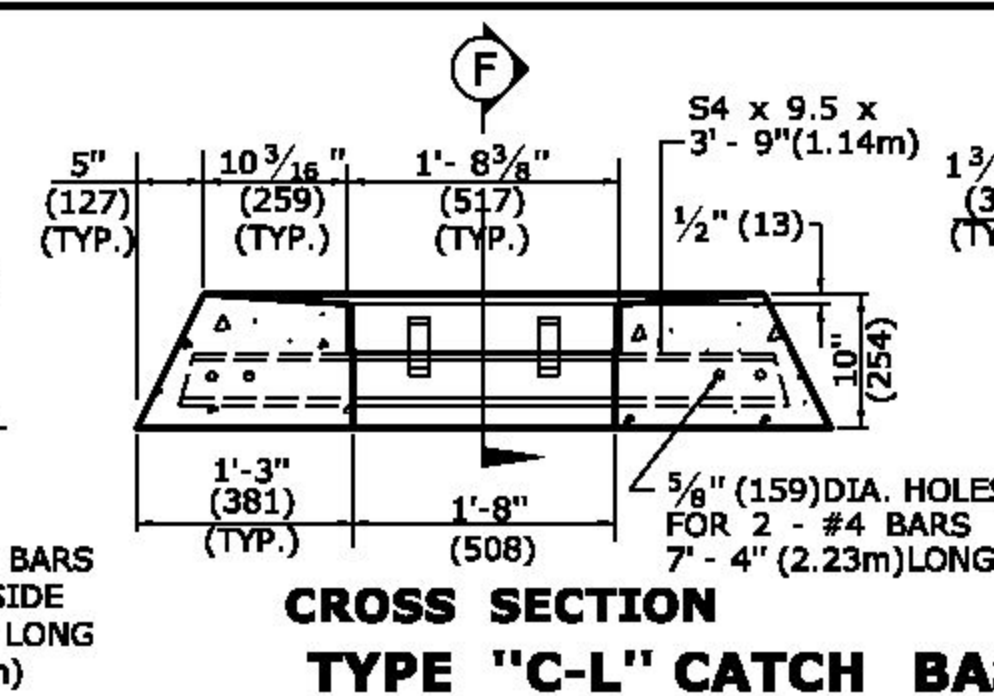
DETAIL "1" **DETAIL "2"**



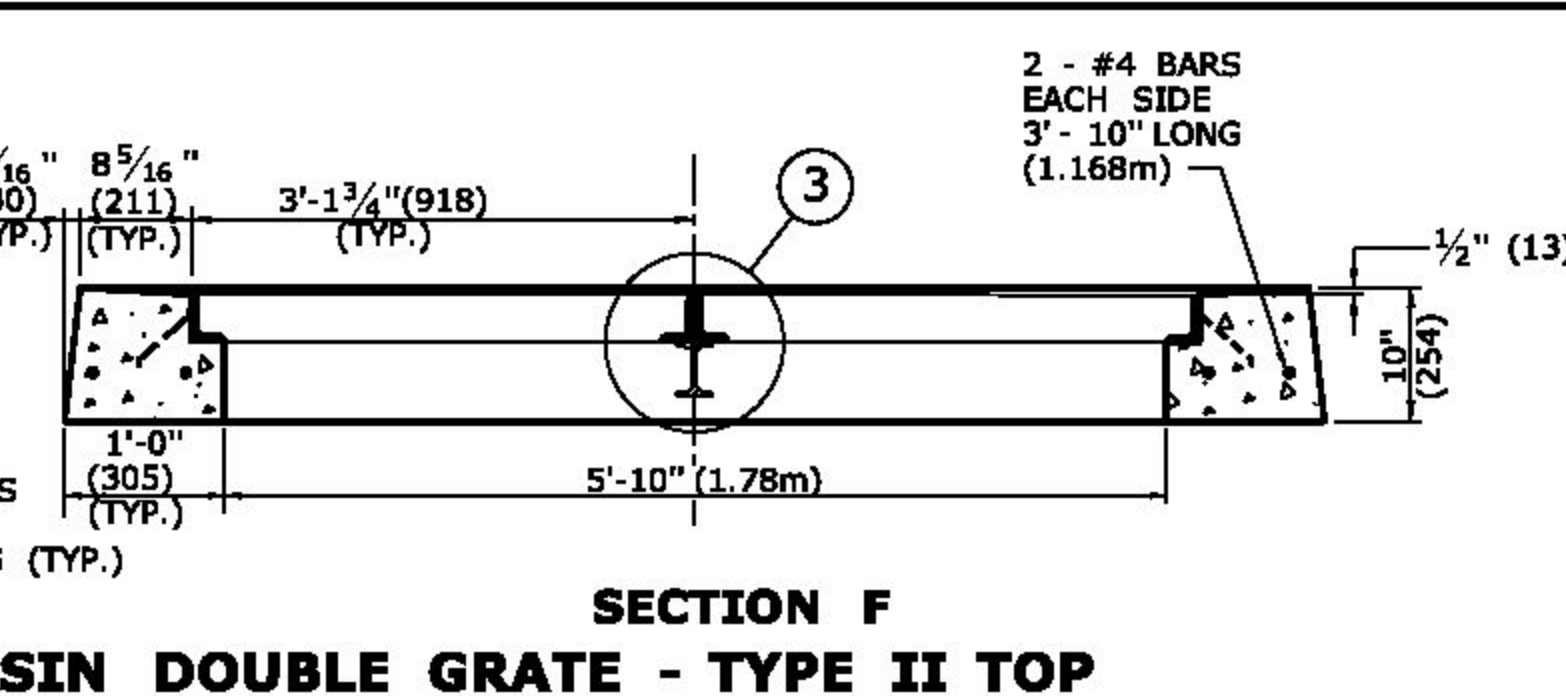
CROSS SECTION
TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II TOP



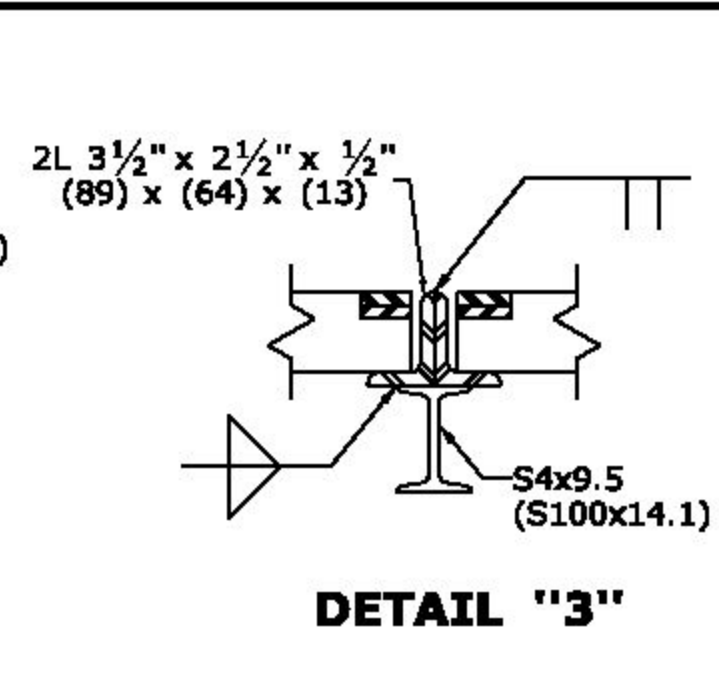
SECTION E



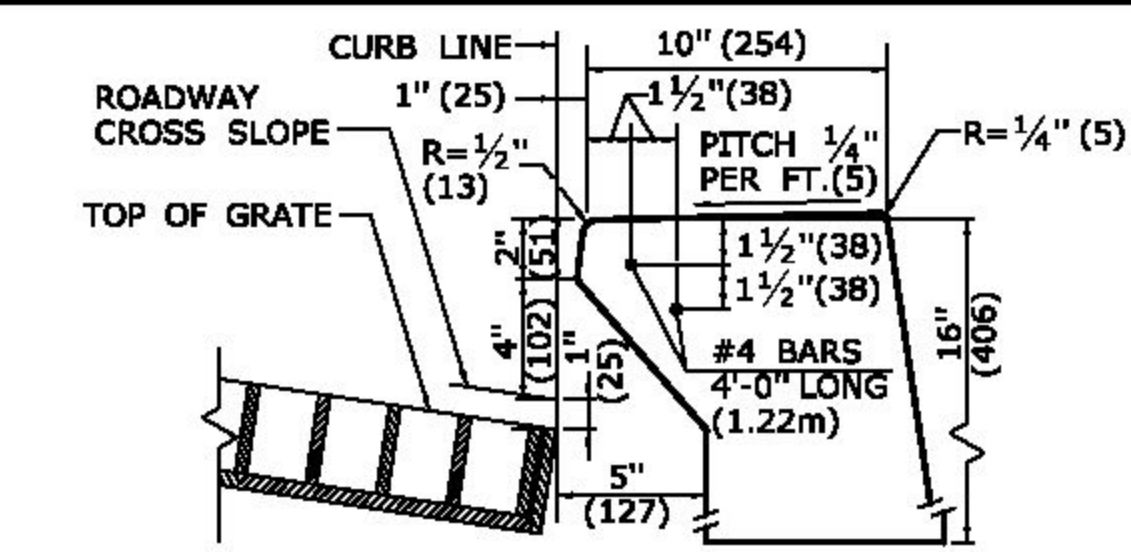
CROSS SECTION
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II TOP



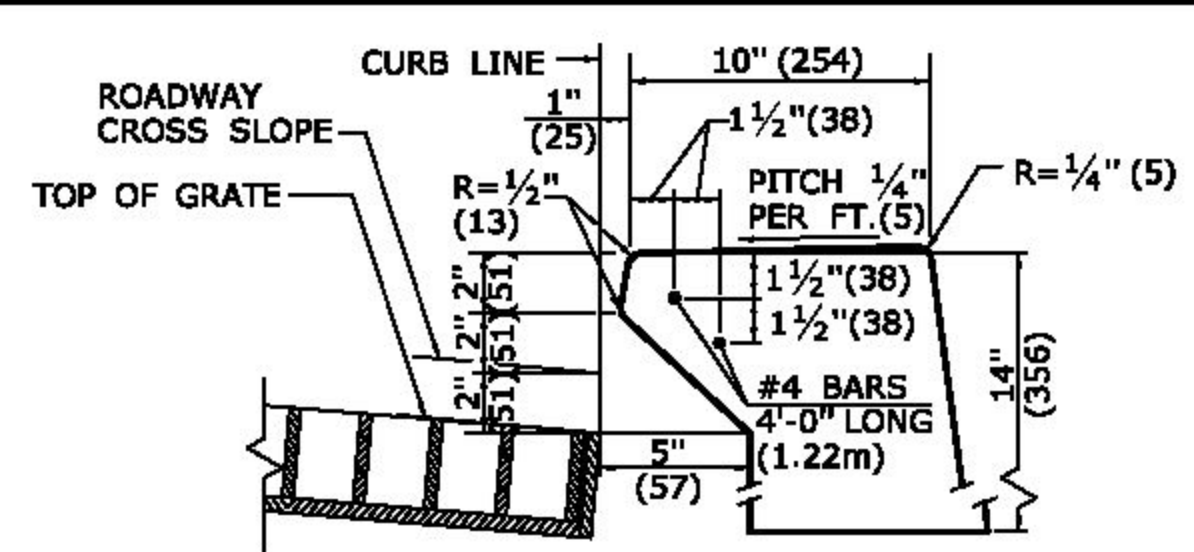
SECTION F



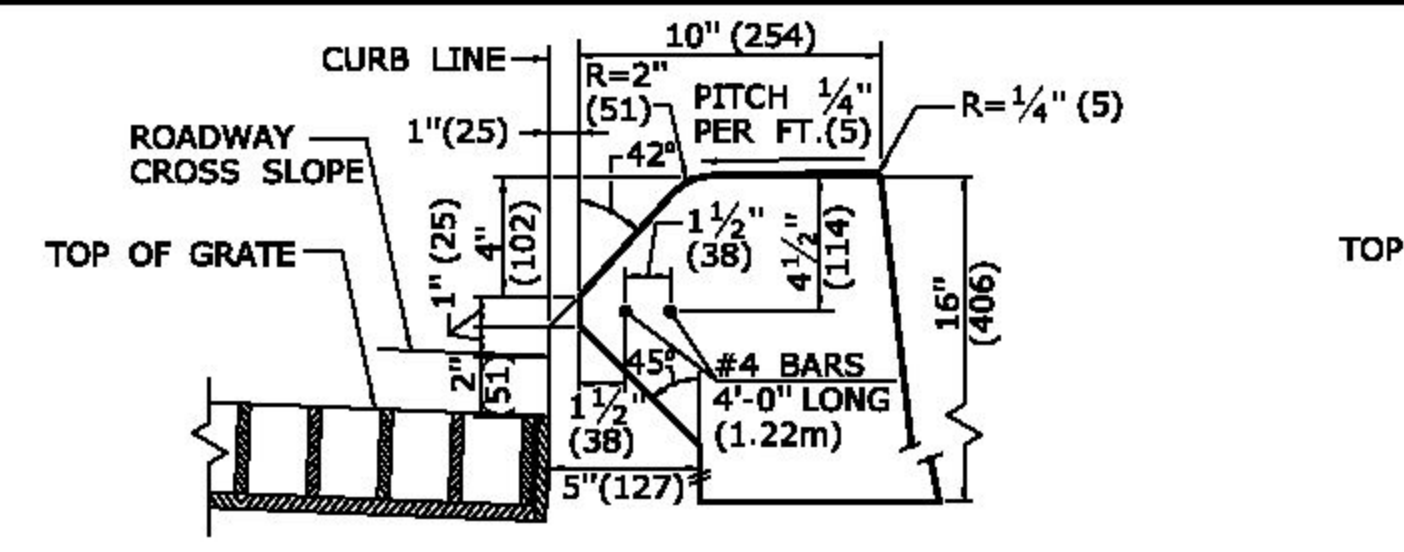
DETAIL "3"



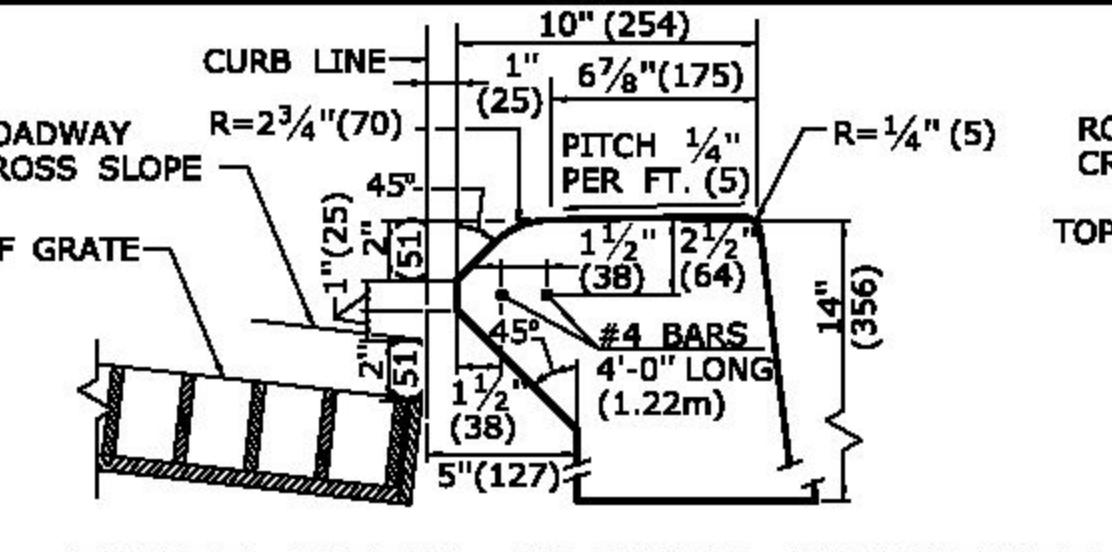
INLET WITH 6" (152) CONCRETE OR STONE CURBING FOR TYPE "C" CB



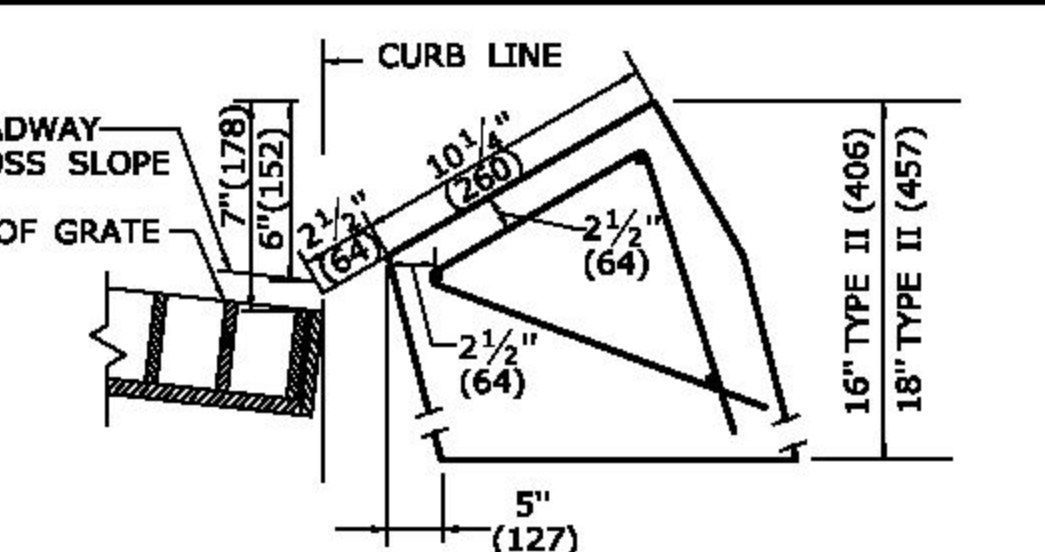
INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB



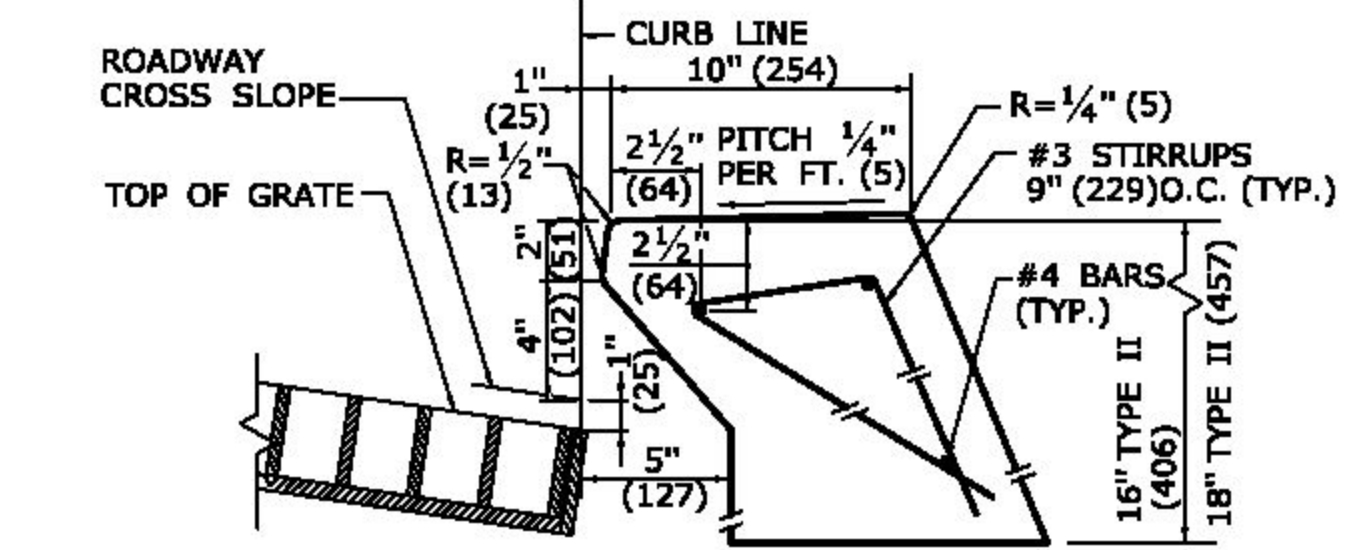
INLET WITH 6" (152) BITUMINIOUS CONCRETE LIP CURBING FOR TYPE "C" CB



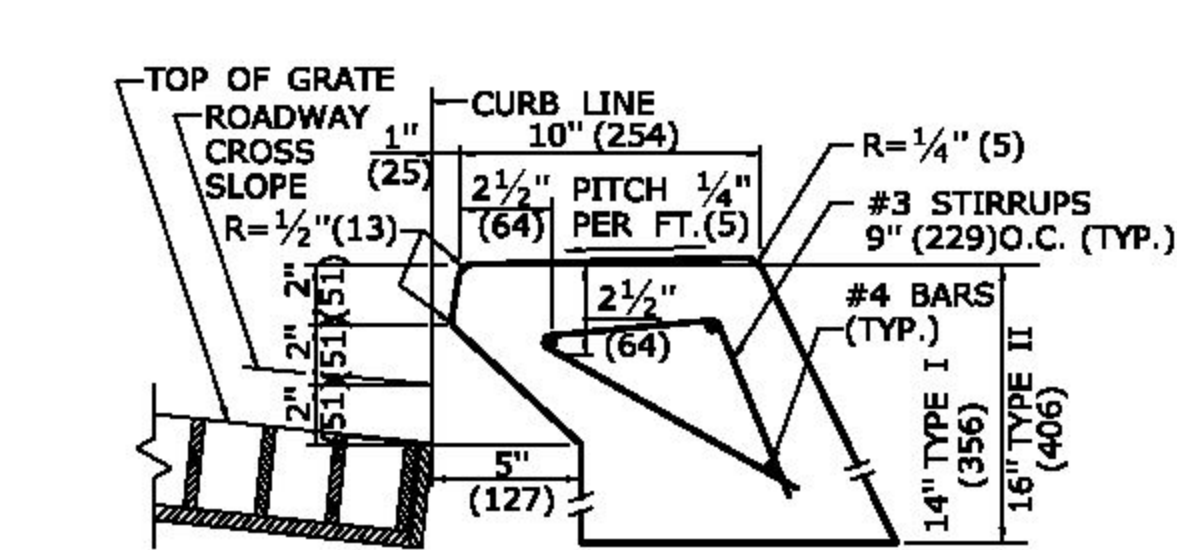
INLET WITH 4" (102) CONCRETE PARK CURBING FOR TYPE "C" CB



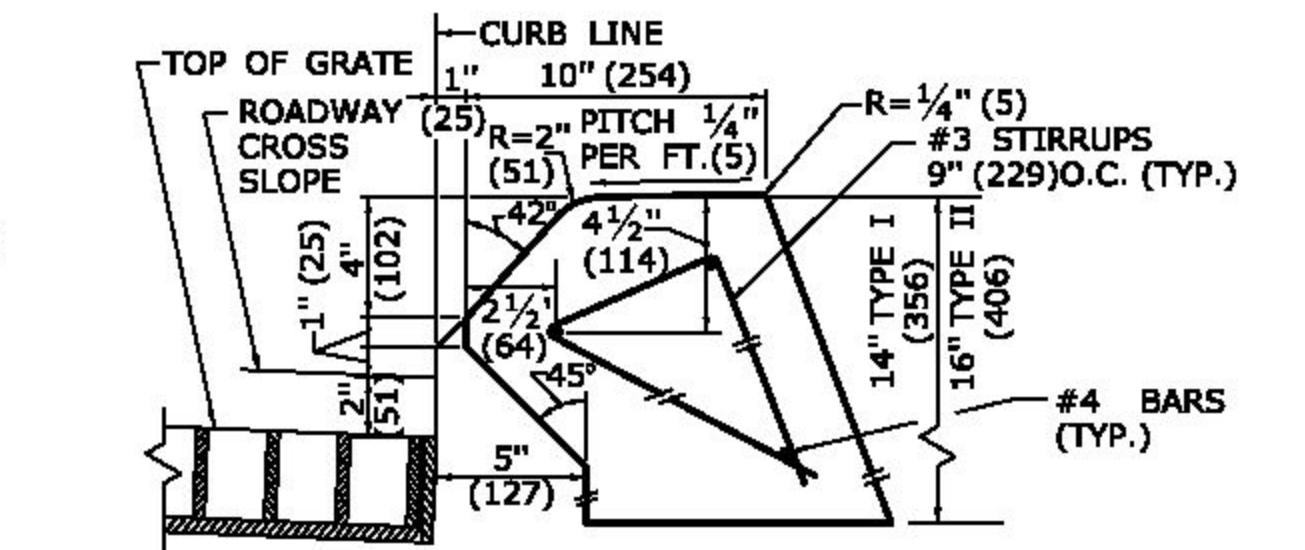
INLET WITH GRANITE SLOPE CURB FOR TYPE "C" CB



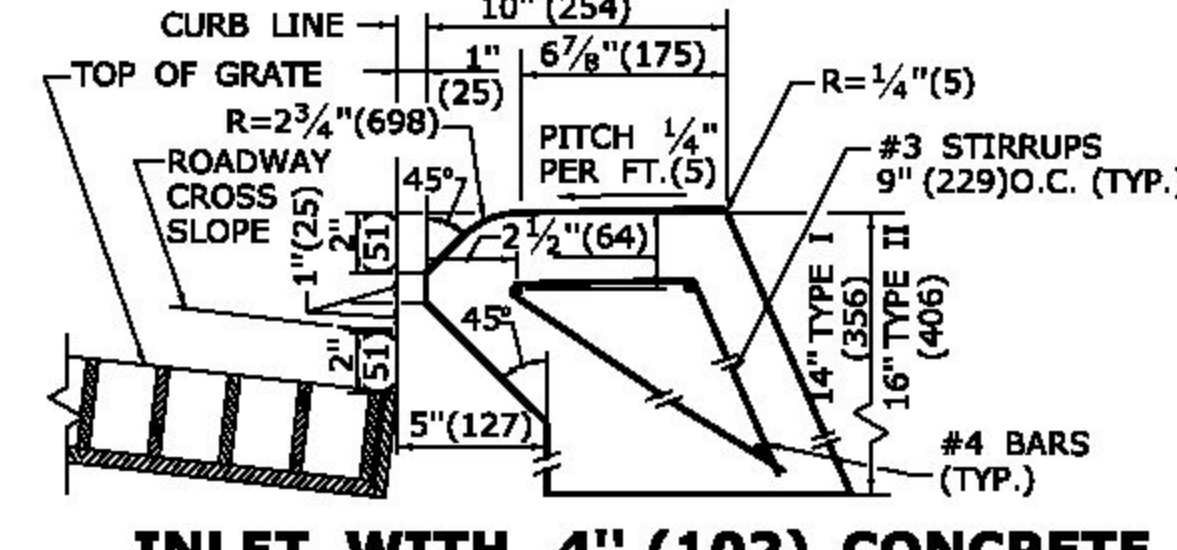
INLET WITH 6" (152) CONCRETE OR STONE CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



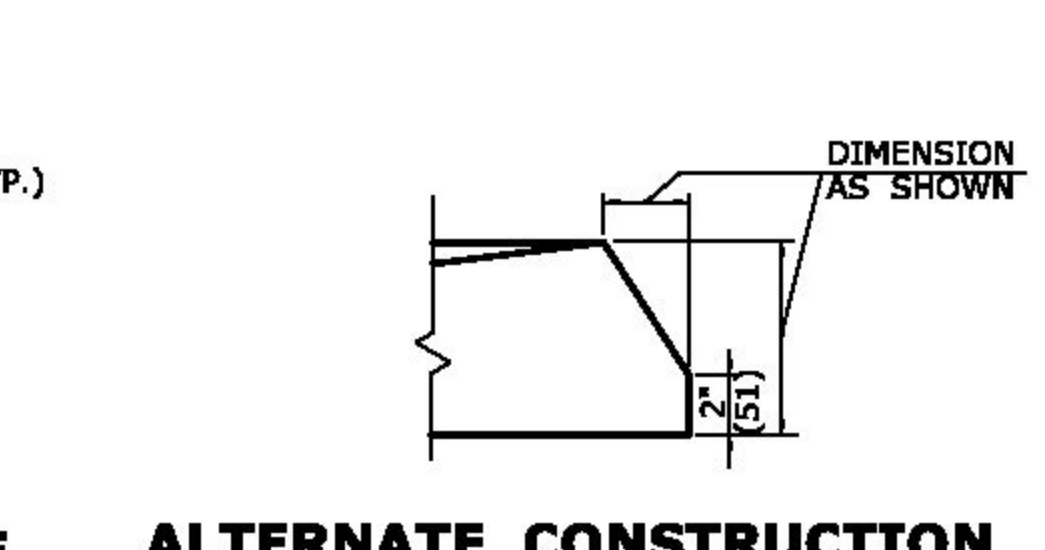
INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



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



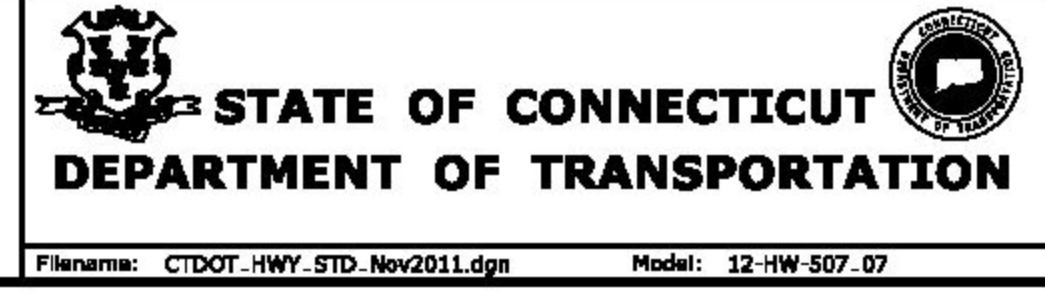
ALTERNATE CONSTRUCTION OF TYPE II TOP

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

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

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

NOT TO SCALE



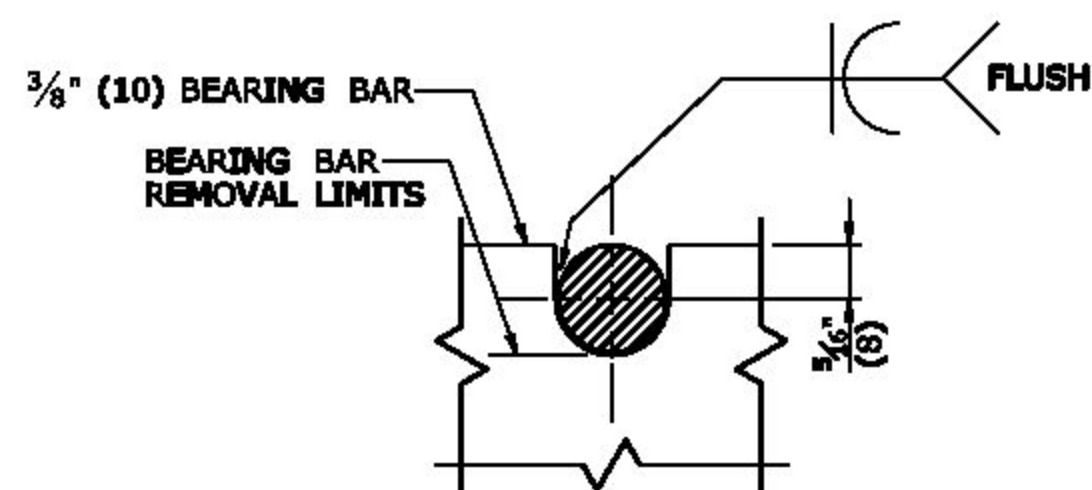
SUBMITTED BY: NAME/DATE/TIME:
Leo Fontaine
2011.11.10 10:04:01-0500

APPROVED BY: NAME/DATE/TIME:
James H. Norman
2011.11.10 10:19:36-0500

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

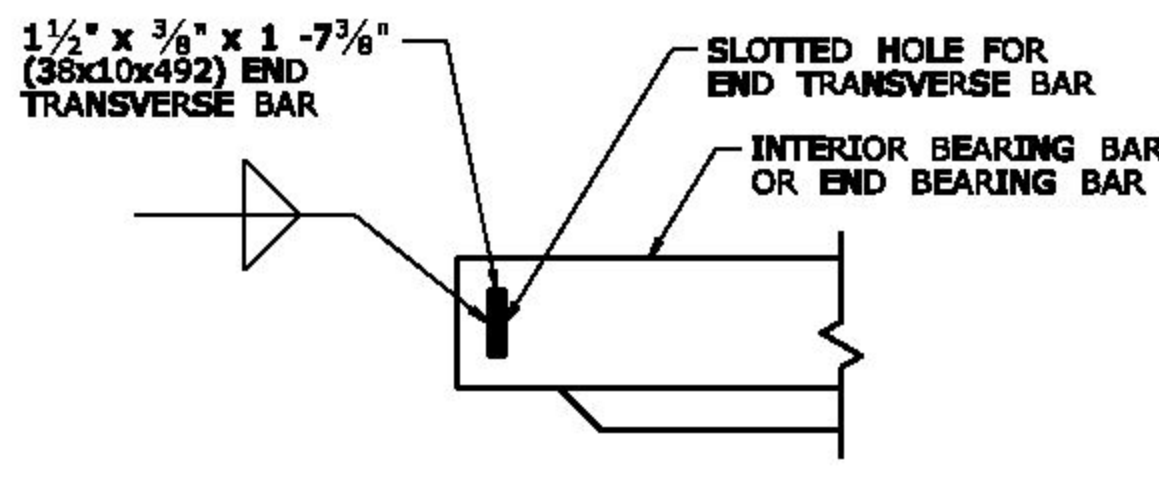
STANDARD SHEET TITLE:
TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS

STANDARD SHEET NO.:
HW-507_07

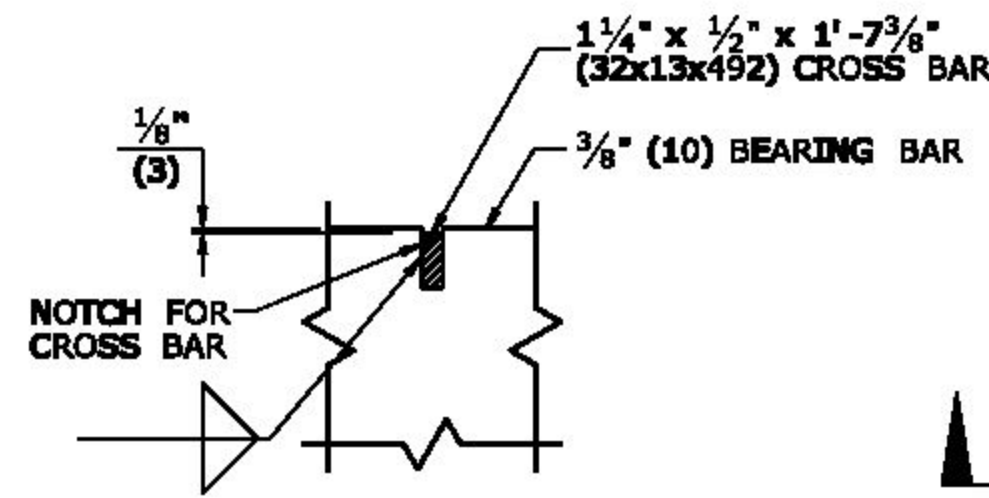


NOTE:
3/8" DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

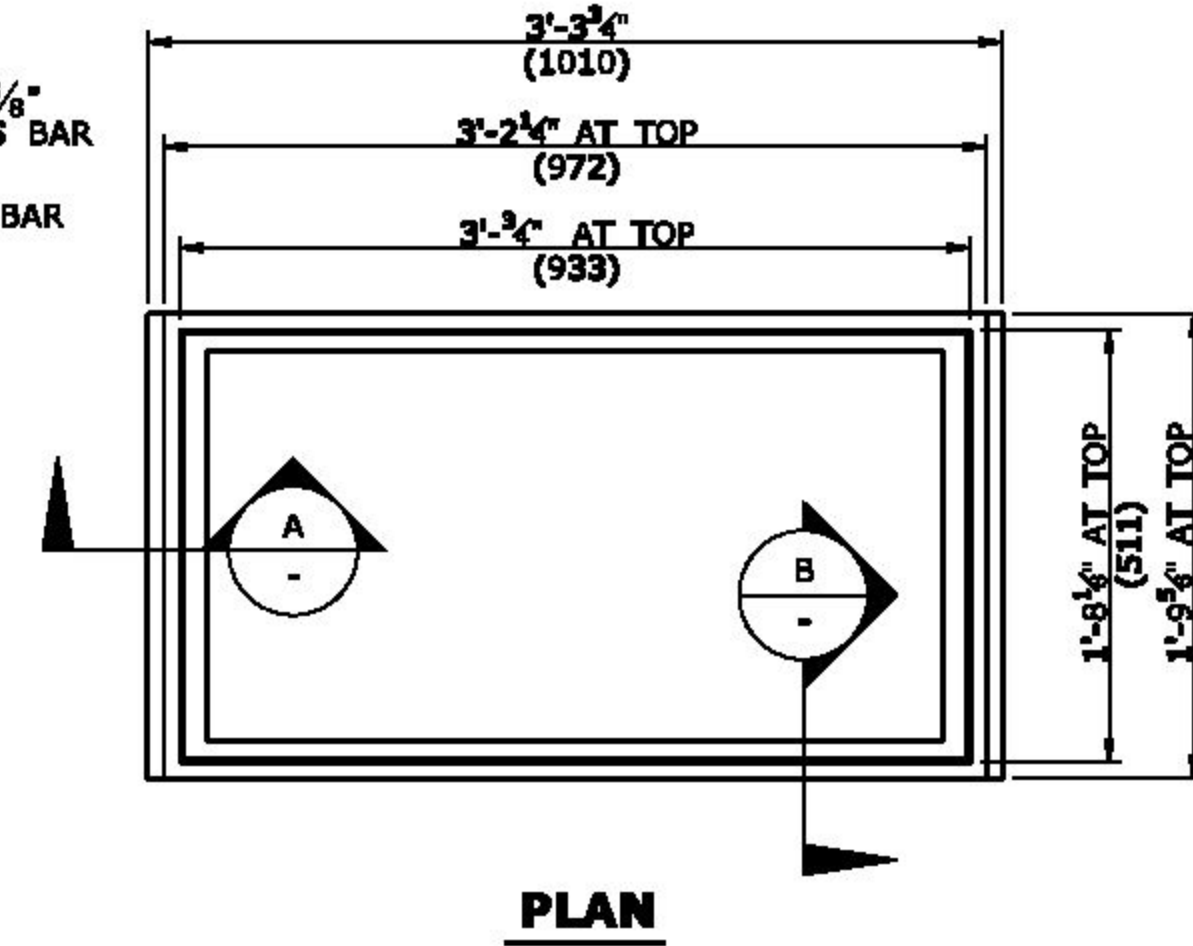
**ROUND BAR ATTACHMENT
CATCH BASIN GRATE TYPE A**



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



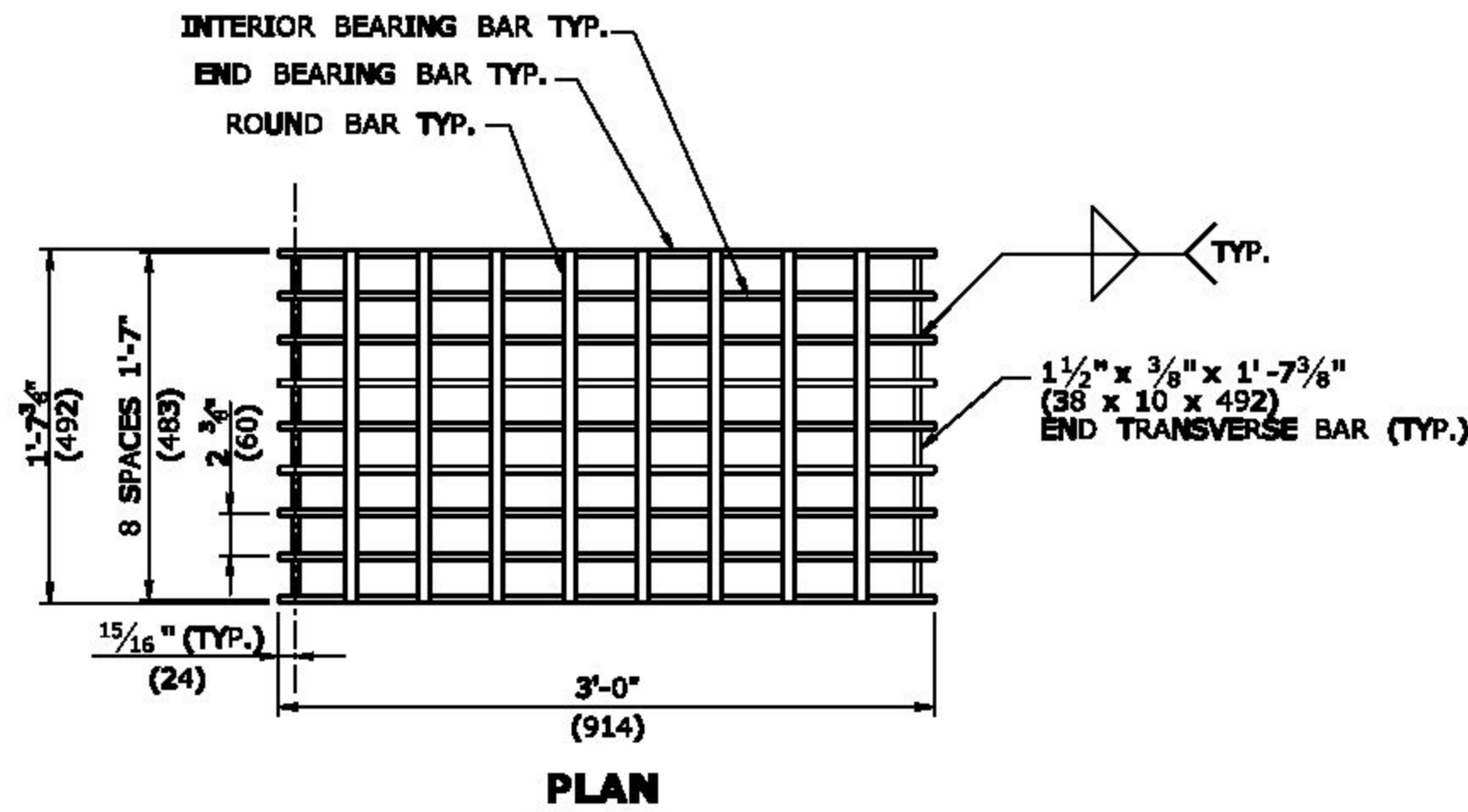
**CROSS BAR ATTACHMENT
CATCH BASIN GRATE TYPE B**



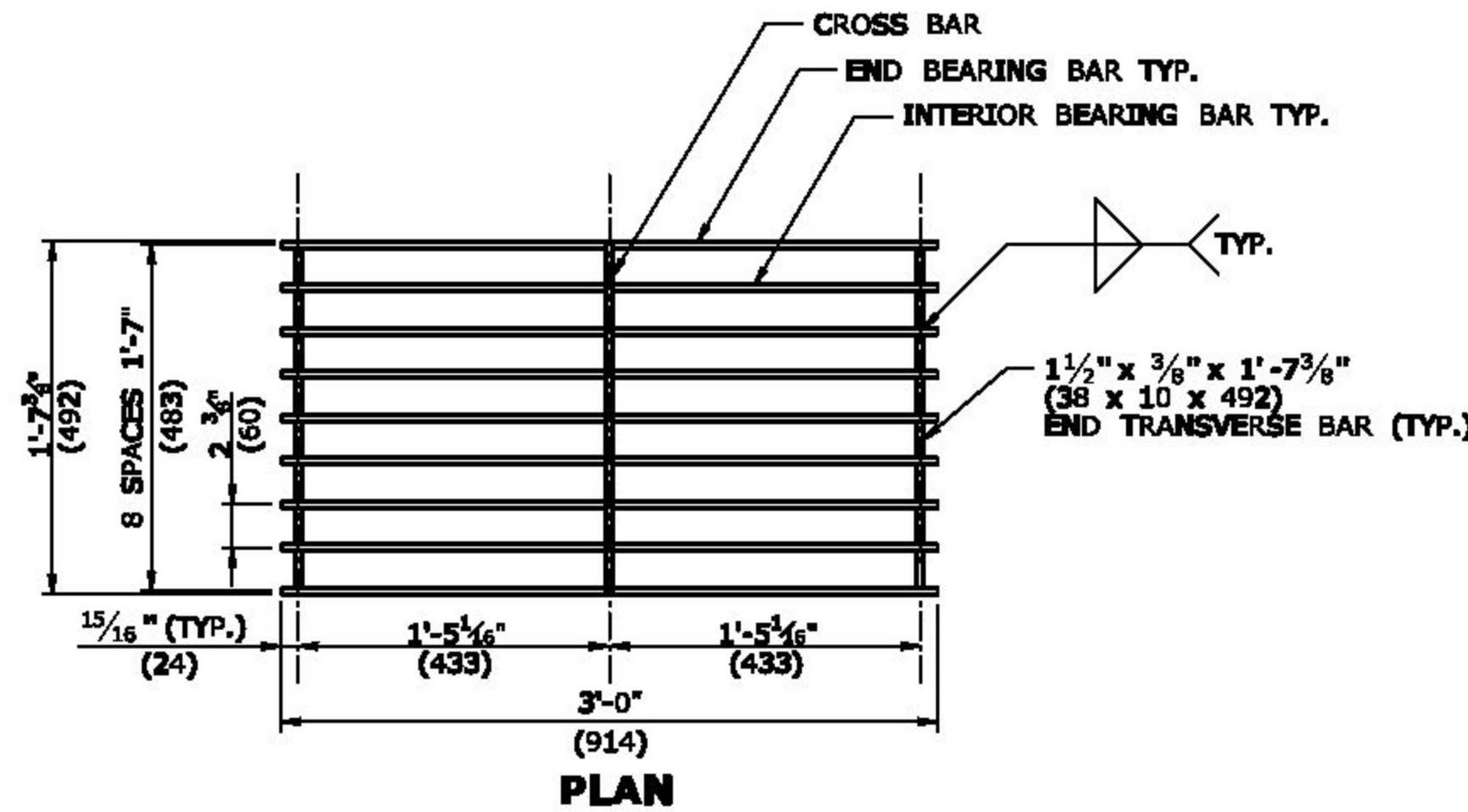
PLAN

GENERAL NOTES:

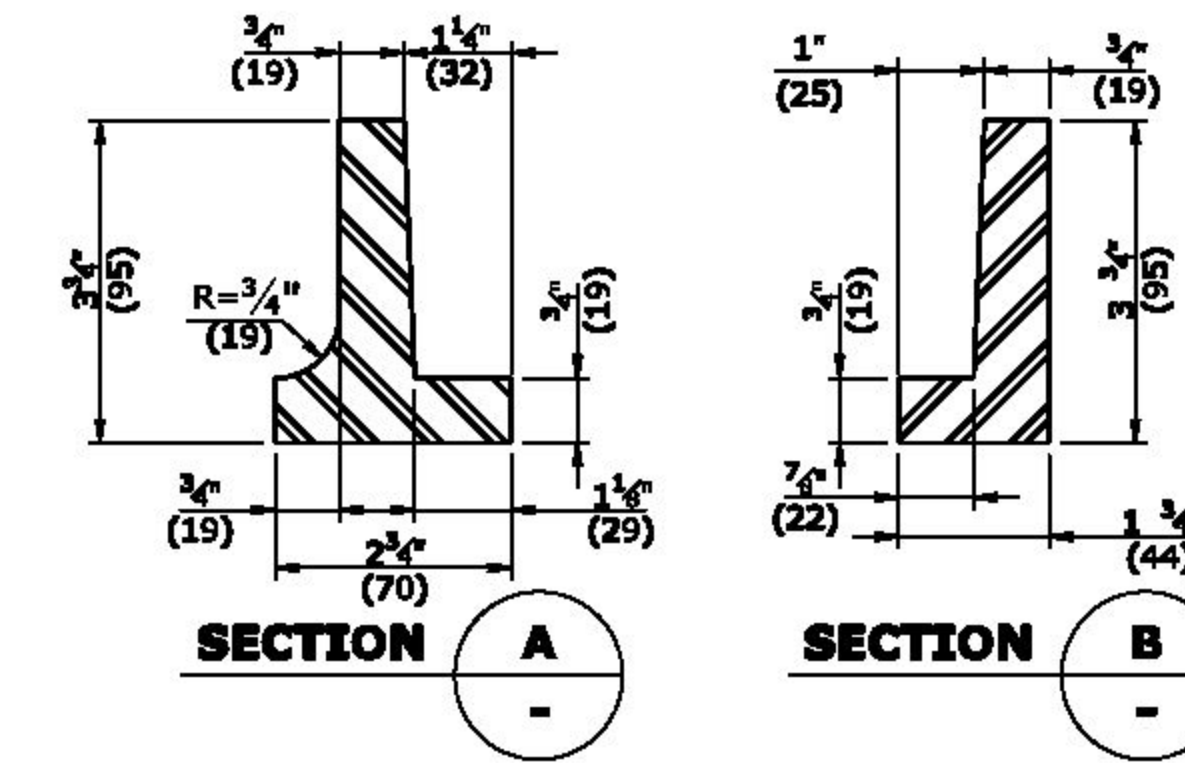
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" & "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR AS DIRECTED BY THE ENGINEER.
3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, RAMPS AND WHERE BICYCLE TRAFFIC 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.



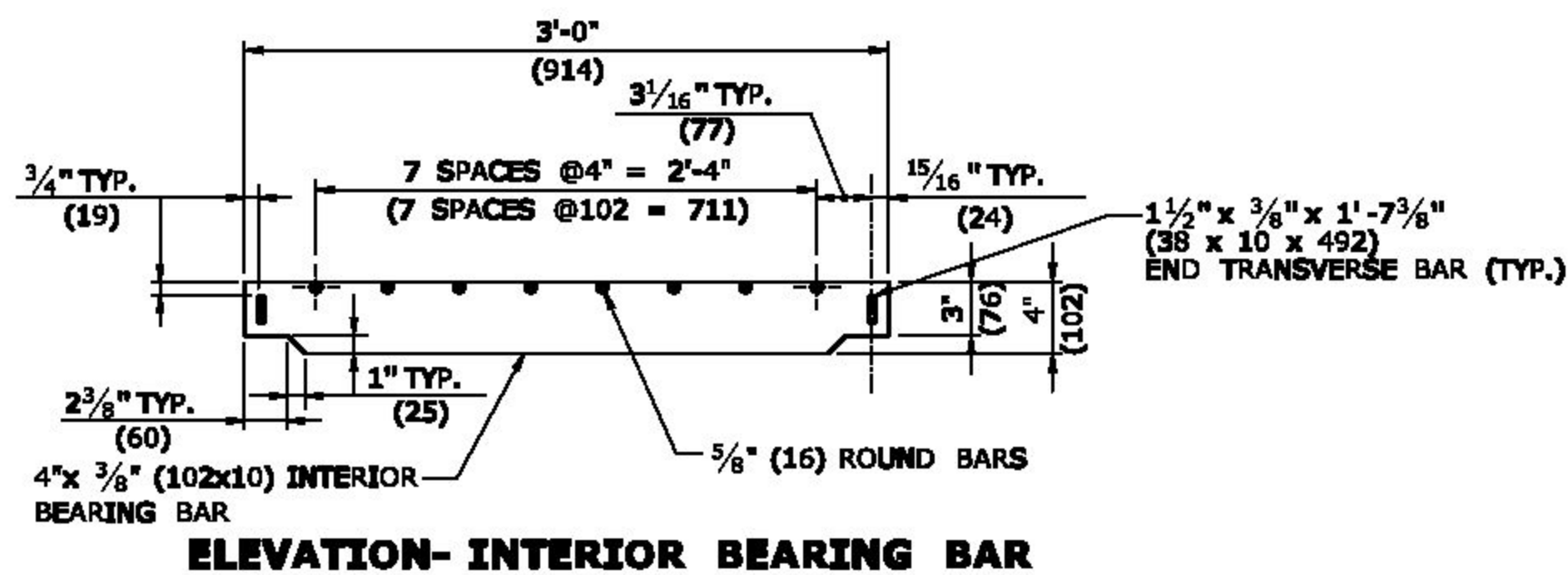
PLAN



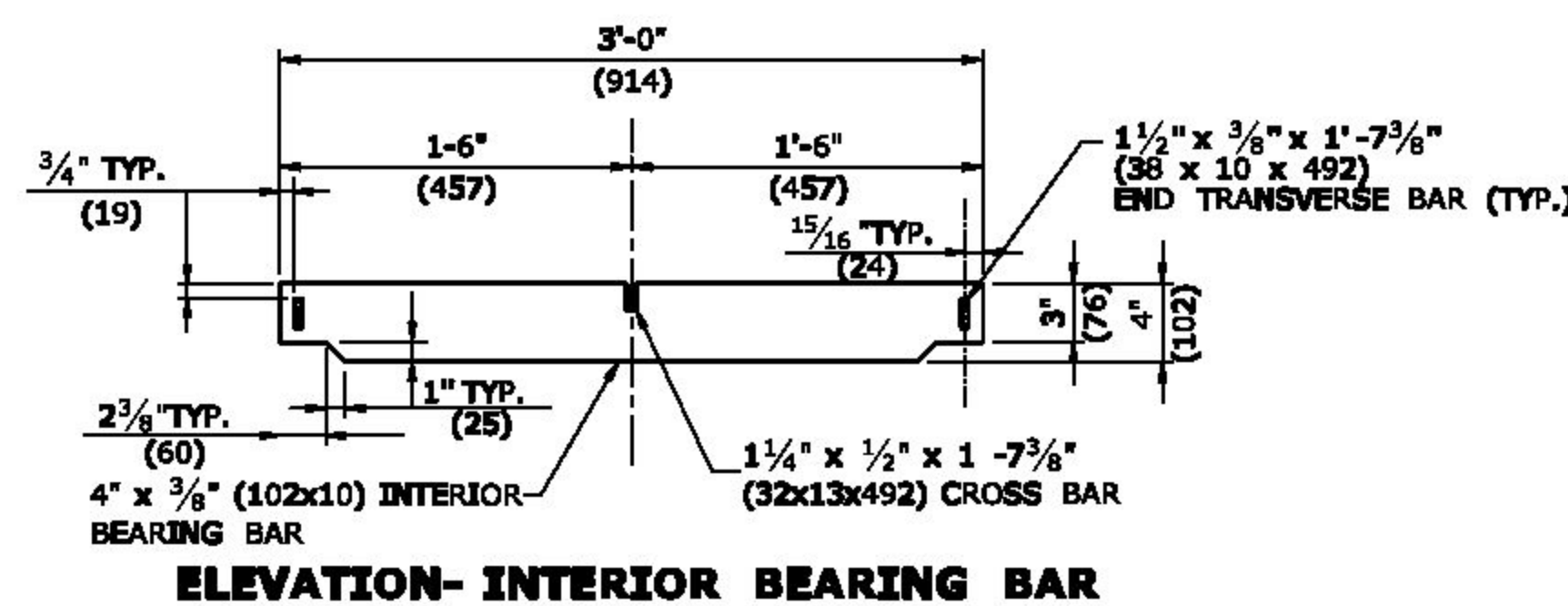
PLAN



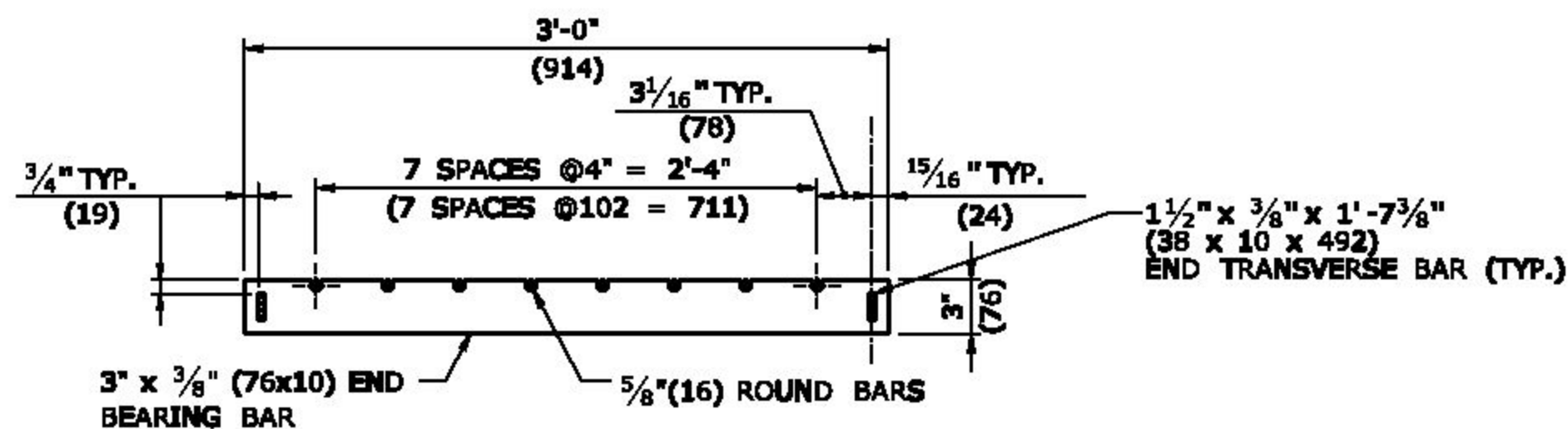
CAST IRON FRAME ALTERNATE



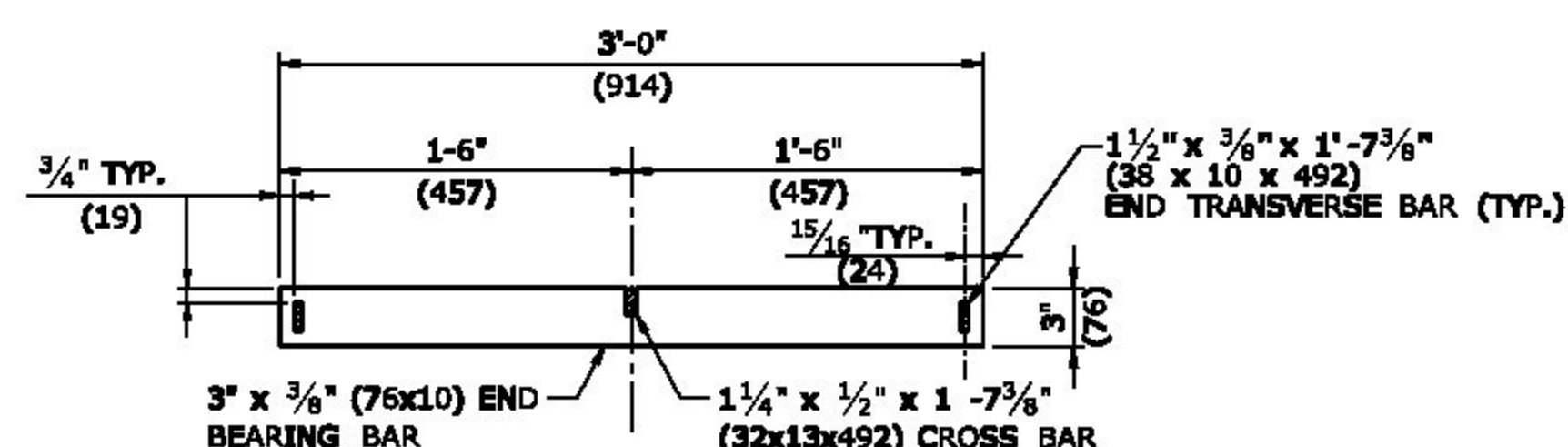
**ELEVATION- INTERIOR BEARING BAR
CATCH BASIN GRATE TYPE A**



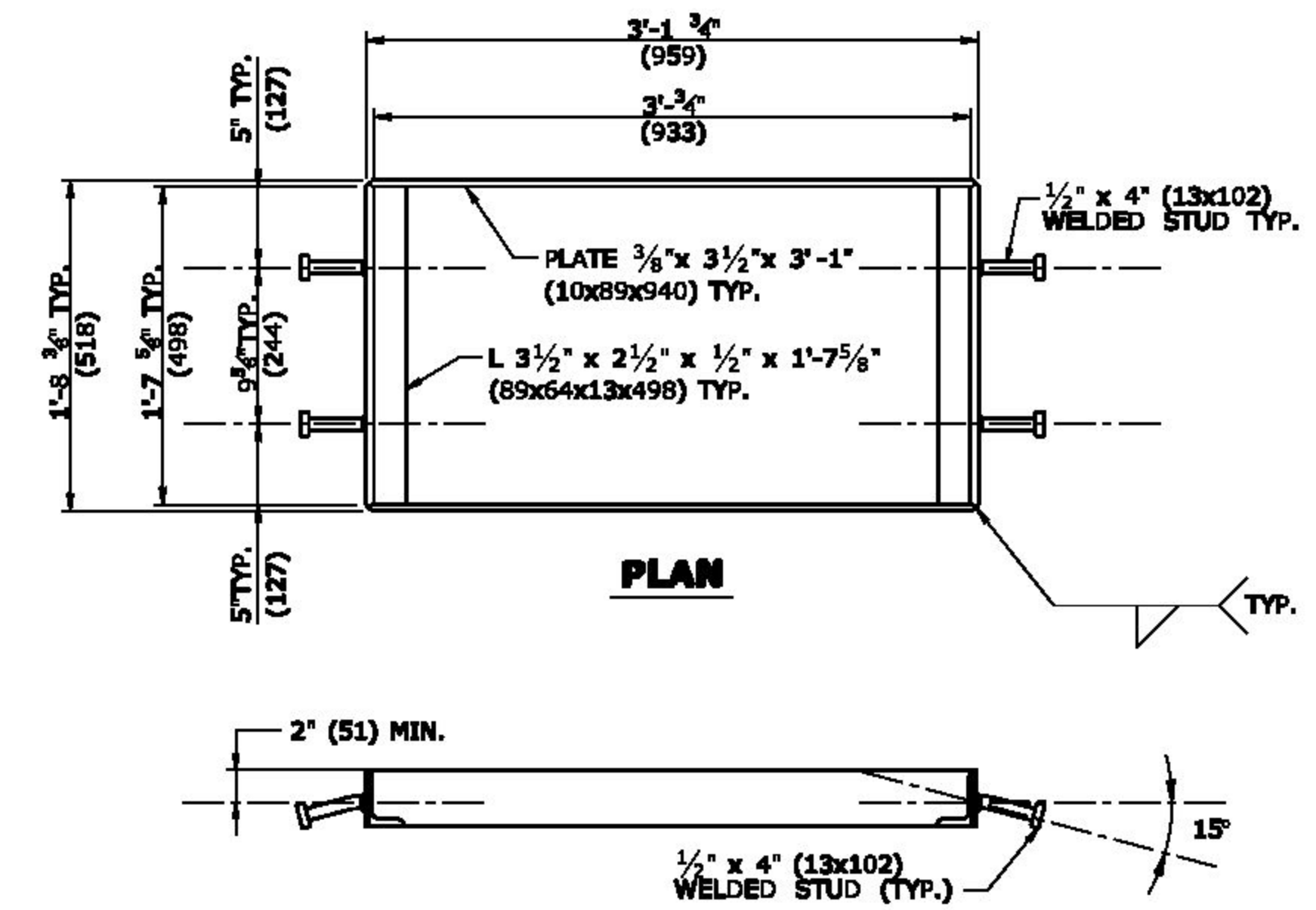
**ELEVATION- INTERIOR BEARING BAR
CATCH BASIN GRATE TYPE B**



**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

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Plotted Date: 9/11/2009

SUBMITTED BY: Timothy M. Wilson
DATE/TIME: 2009.09.16 11:16:32 -04'00'

APPROVED BY: James H. Norman
DATE/TIME: 2009.09.18 14:22:33 -04'00'

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

CATCH BASIN FRAMES AND GRATES

STANDARD SHEET NO.: HW-507_08