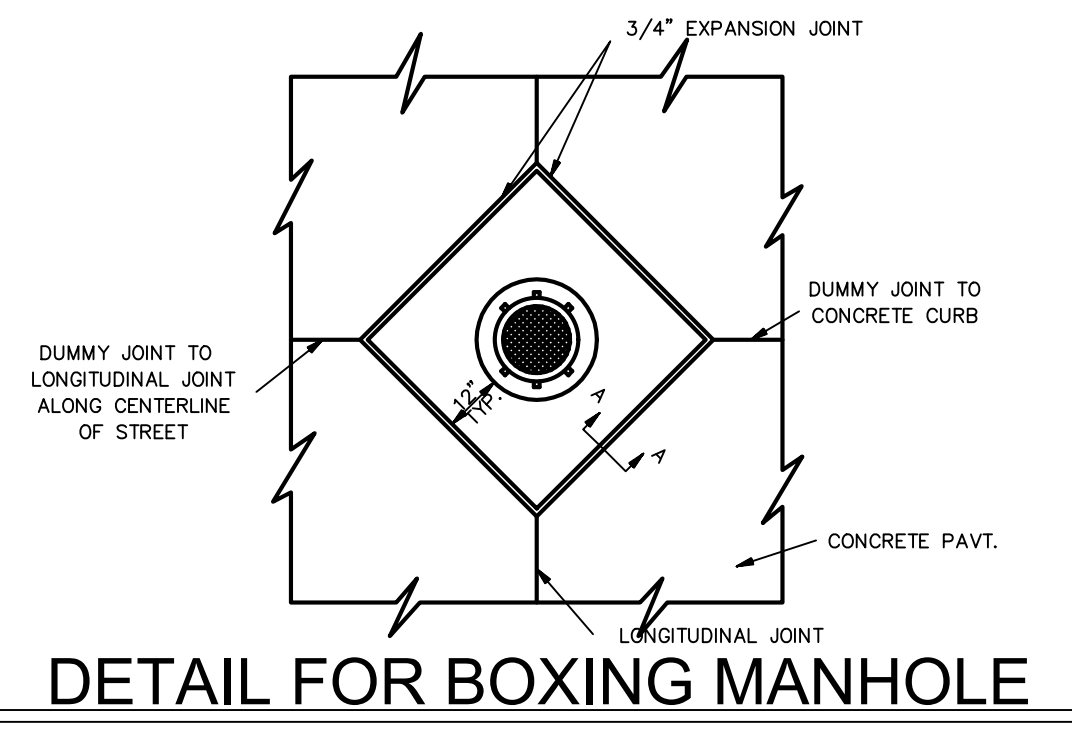
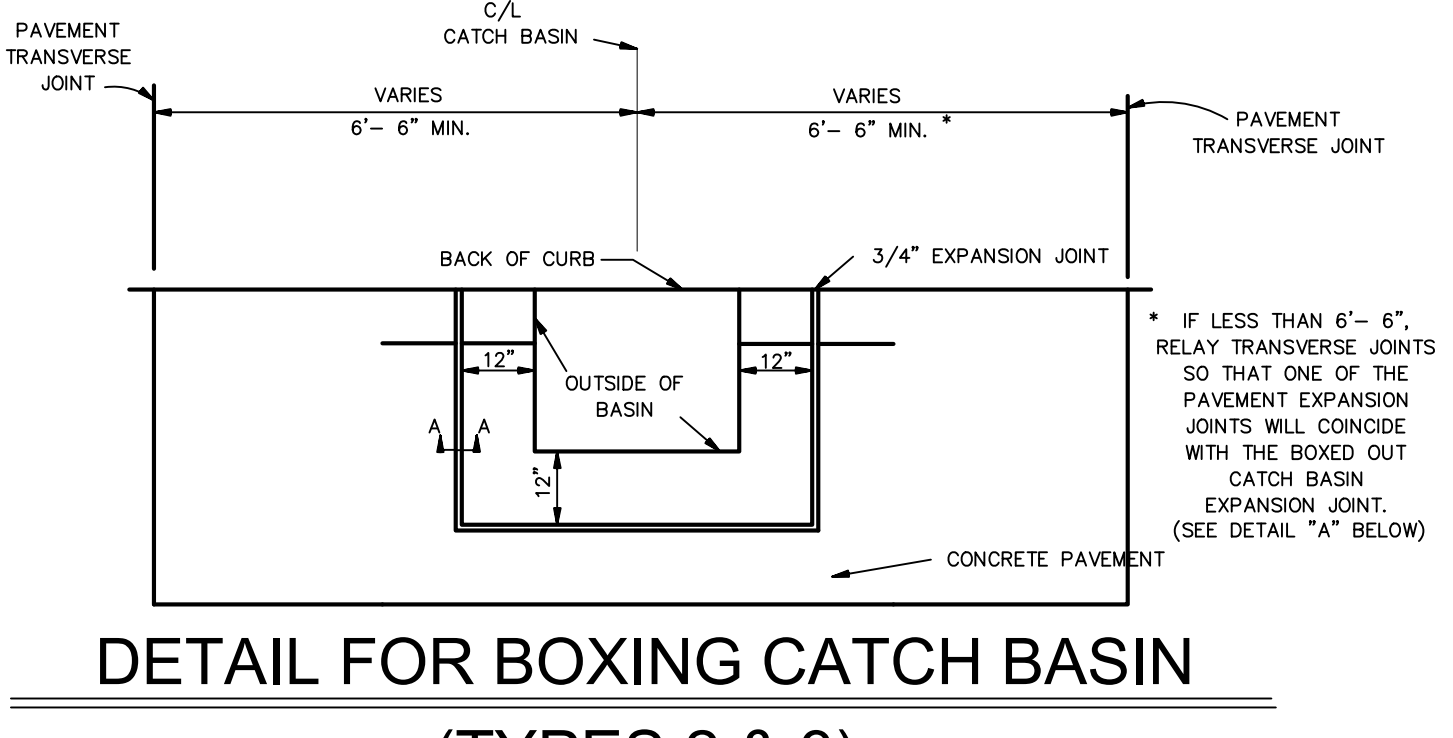


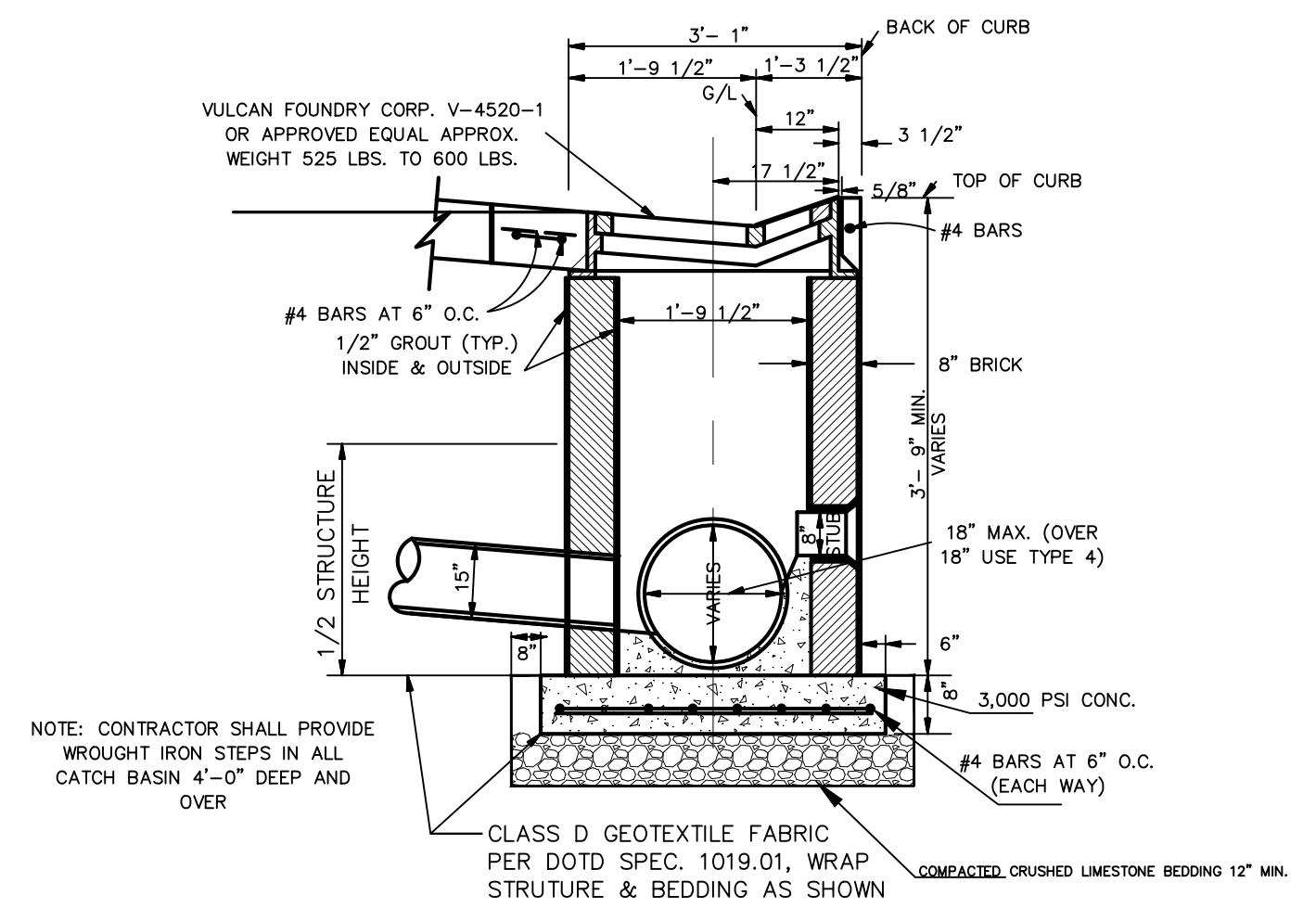
PLAN OF DRAINAGE MANHOLE



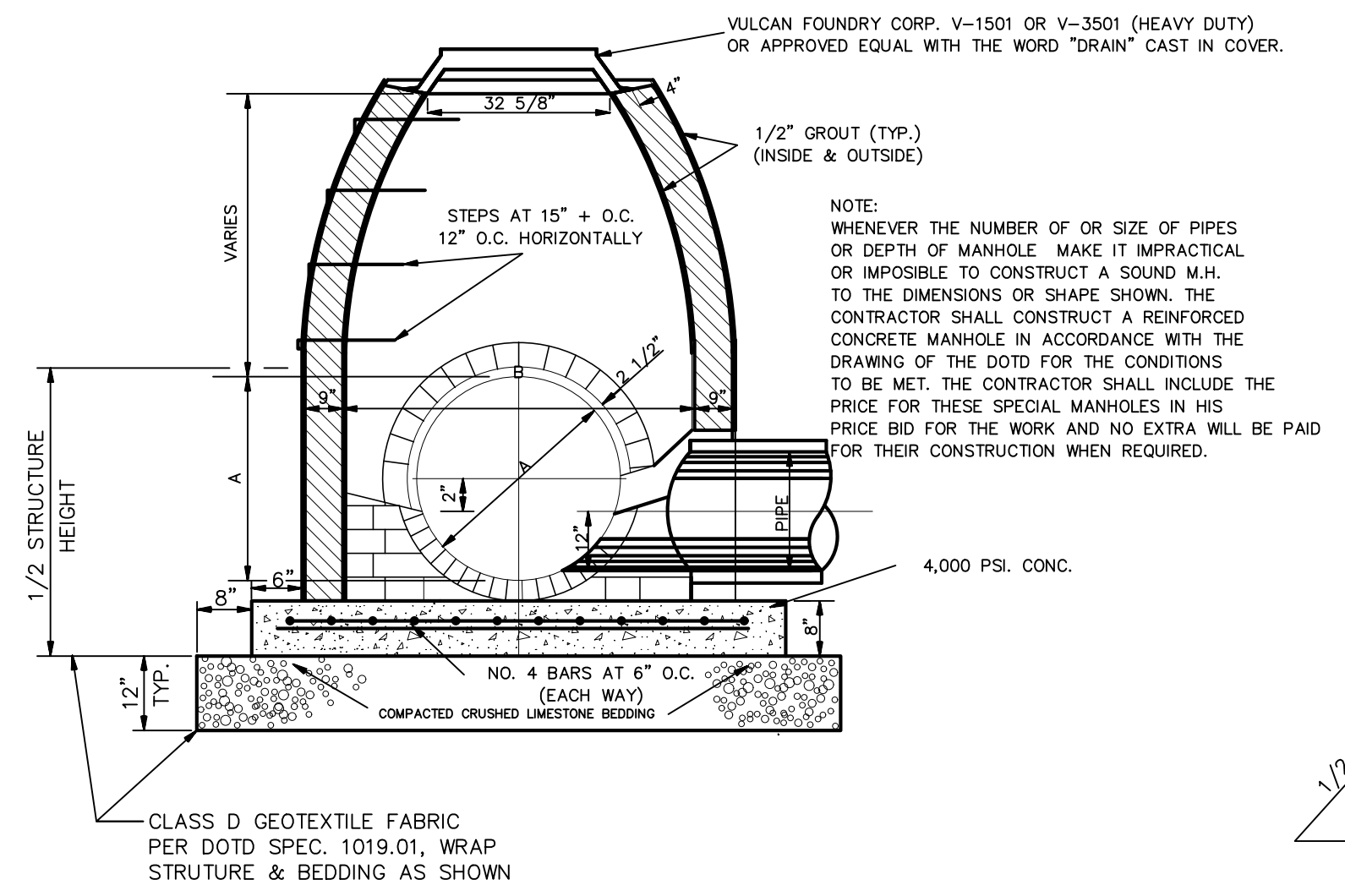
DETAIL FOR BOXING MANHOLE



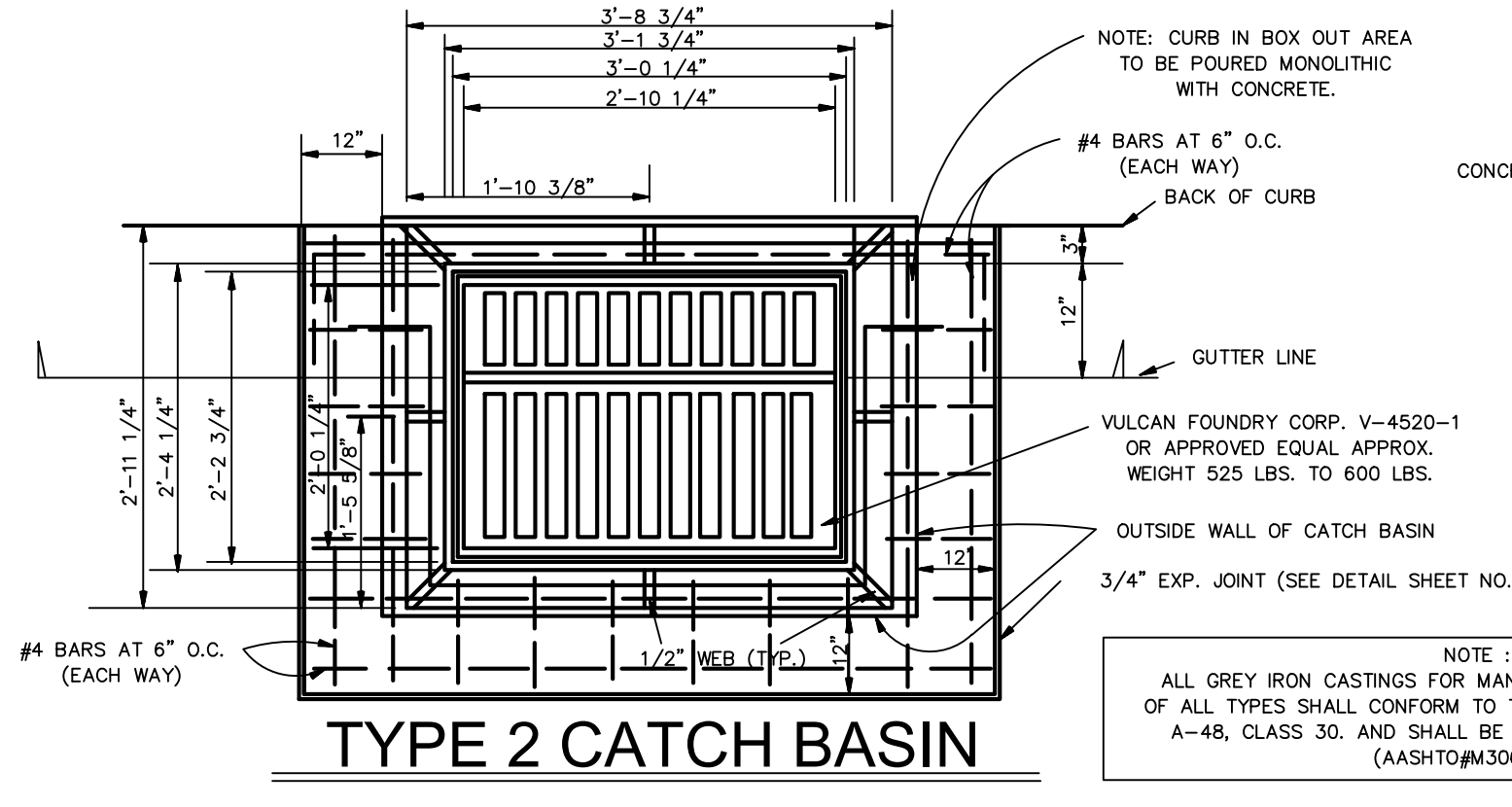
DETAIL FOR BOXING CATCH BASIN (TYPES 2 & 3)



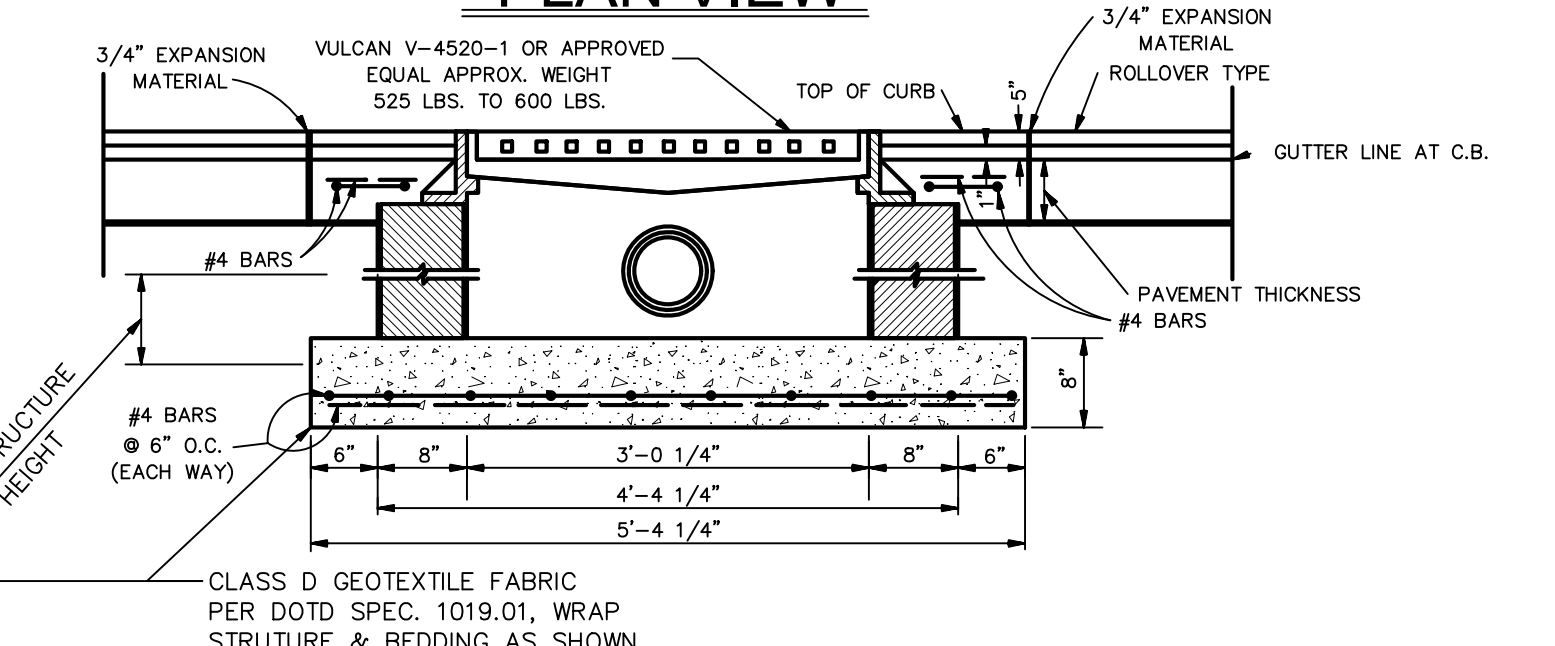
SIDE ELEVATION OF ROLLOVER CATCH BASIN TYPE 2



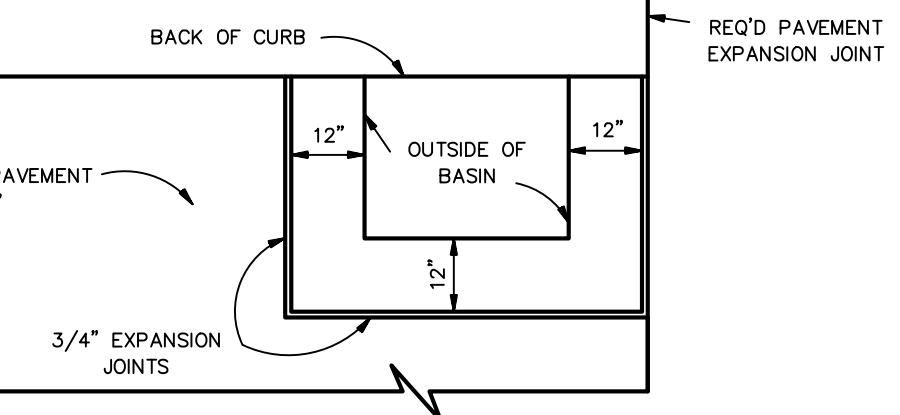
DRAINAGE MANHOLE



TYPE 2 CATCH BASIN PLAN VIEW



TYPE 2 CATCH BASIN SECTION ALONG GUTTER LINE



DETAIL "A"

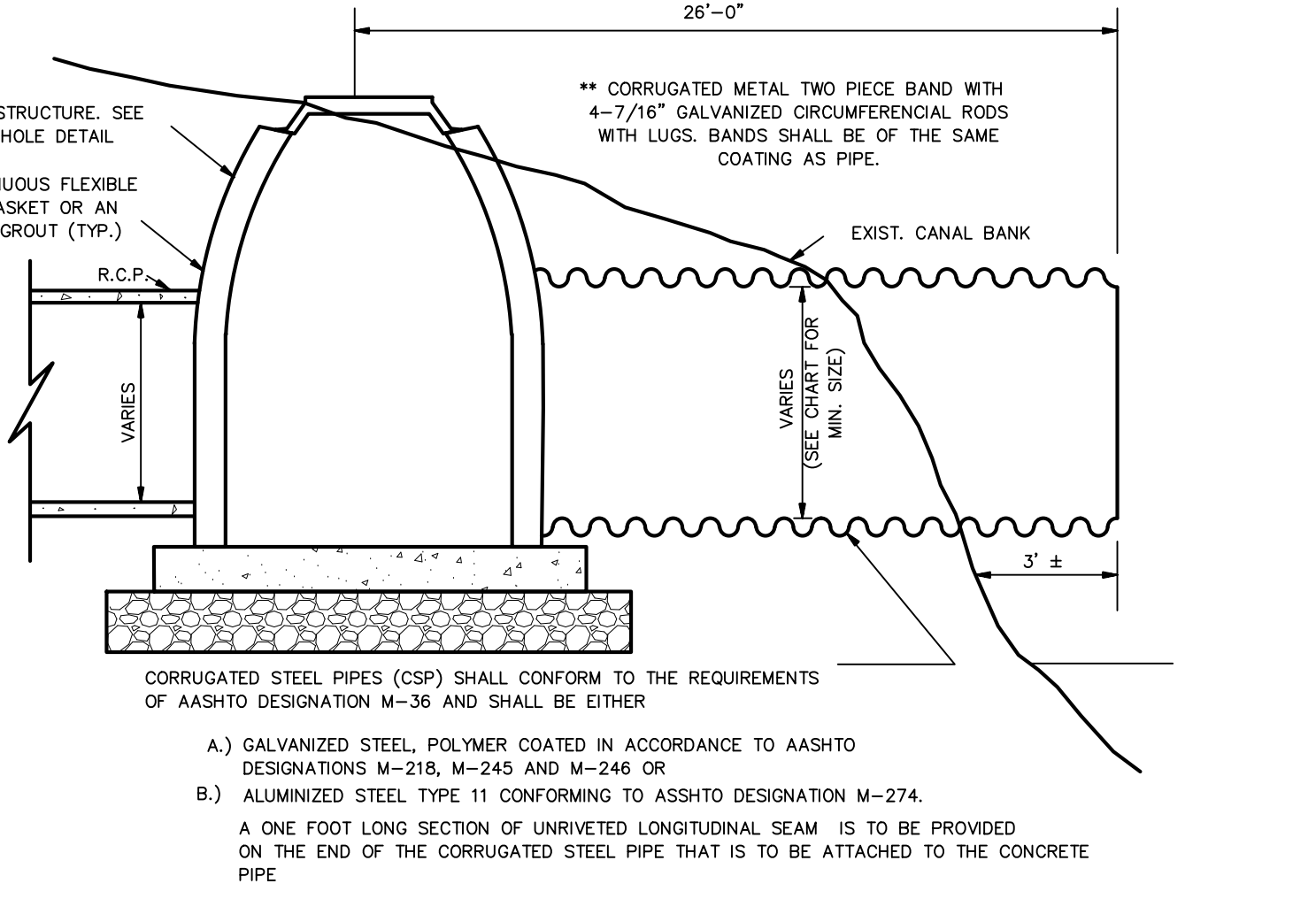
NOTE: ALL GREY IRON CASTINGS FOR MANHOLES, AND CATCH BASINS OF ALL TYPES SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A-48, CLASS 30, AND SHALL BE FURNISHED WITHOUT PAINT (AASHTO M306-891)

R.C.P. NOM. DIA.	WALL THICKNESS	R.C.P. O.D.	REQ'D CMP I.D.	GAGE REQ'D
12"	2"	16"	16.5"	Δ 14
15"	2.25"	19.5"	20"	Δ 12
18"	2.5"	23"	23.5"	Δ 12
21"	2.75"	26.5"	27"	Δ 12
24"	3"	30"	30.5"	Δ 12
27"	3.25"	33.5"	34"	Δ 12
30"	3.50"	37"	37.5"	Δ 12
36"	4"	44"	44.5"	Δ 12
42"	4.5"	51"	51.5"	Δ 12
48"	5"	58"	58.5"	Δ 12
54"	5.5"	65"	65.5"	* 12
60"	6"	72"	72.5"	* 12
66"	6.5"	79"	79.5"	* 12
72"	7"	86"	86.5"	* 12
78"	7.5"	93"	93.5"	* 12
84"	8"	100"	100.5"	* 12
90"	8.5"	107"	107.5"	* 12
96"	9"	114"	114.5"	* 12

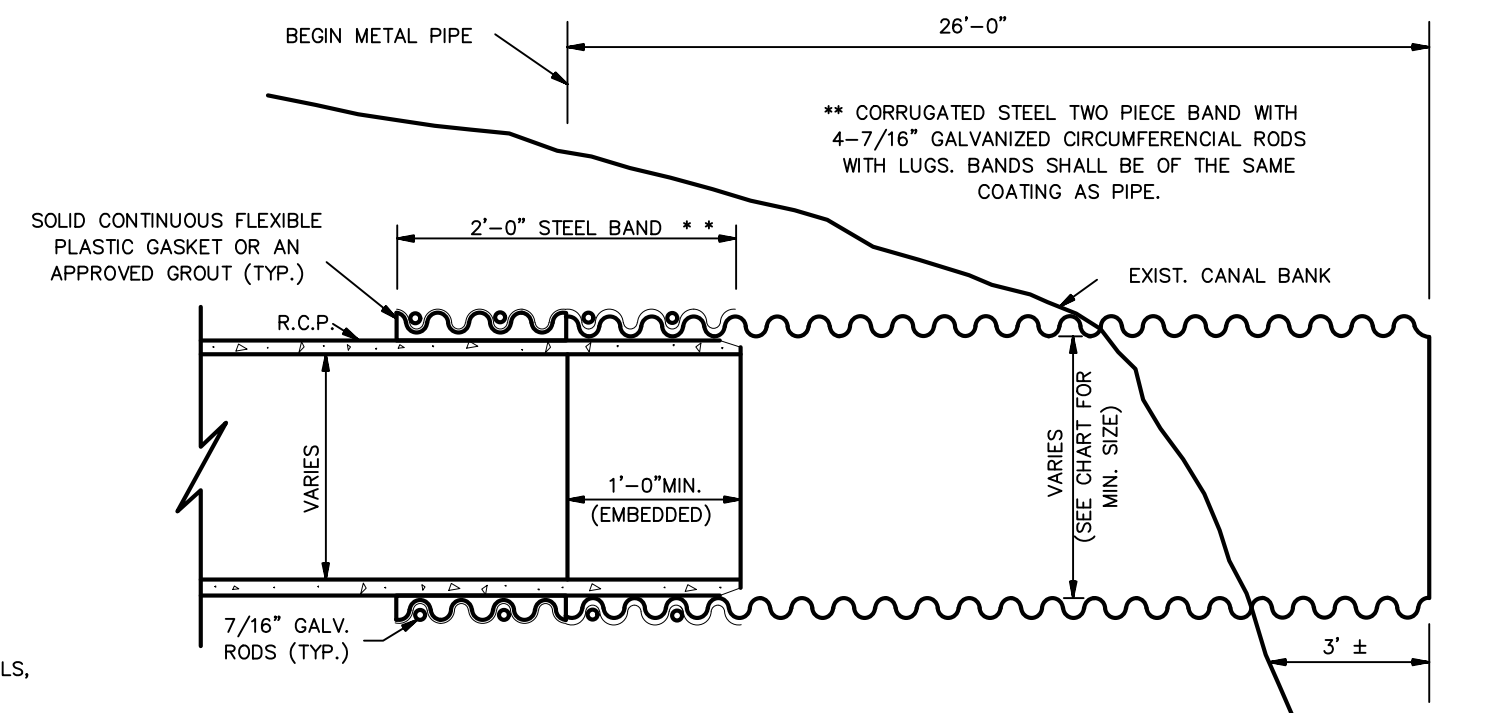
* 2 2/3" X 1 1/2" CORRUGATION REQUIRED.
* 3" X 1" CORRUGATION REQUIRED.

POLICY STATEMENT

- REQUIRED TECHNICAL INFORMATION FOR DRAINAGE DITCHES OR CANALS WHICH ABUT OR LIE IN THE PROPOSED SUBDIVISIONS:
- FURNISH A MINIMUM OF TWO (2) CROSS-SECTIONS, ONE AT THE UPSTREAM AND THE OTHER AT THE DOWNSTREAM OF ALL EXISTING DITCHES OR CANALS. THESE CROSS-SECTIONS SHALL BE TIED-IN WITH THE PROPERTY LINE/LINES.
 - SUPERIMPOSE THE MASTER DRAINAGE PLAN'S RECOMMENDED DITCH OR CANAL CROSS-SECTIONS ON THE EXISTING CROSS-SECTIONS, THEN DELINEATE THE REQUIRED MAINTENANCE SERVITUDE ON BOTH SIDES OF THE CANALS OR DITCHES, THESE SERVITUDES ARE THE DISTANCES BETWEEN PROPERTY LINES AND THE TOP OF THE PROPOSED DITCH OR CANAL BANKS. (20 FEET MINIMUM SERVITUDE FOR THE TOP WIDTH OF A DITCH LESS THAN 35 FEET AND 35 FEET MINIMUM SERVITUDE FOR THE TOP WIDTH OF A CANAL LARGER THAN 35 FEET).
 - IF NO RECOMMENDATIONS ARE GIVEN FOR THE PROPOSED CROSS-SECTIONS OF THE DITCHES OR CANALS IN THE MASTER DRAINAGE PLAN THEN FURNISH THE FOLLOWING INFORMATION:
 - DETERMINE FLOW OF RUN OFF AT THE UPSTREAM REACH OF THE DITCH OR CANAL
 - CALCULATE RUN OFF GENERATED FROM THE PROPOSED SITE.
 - CALCULATE THE PROPOSED CROSS-SECTIONS FOR THE DITCH OR CANAL BASED ON THE SUM OF THESE FLOWS THEN PROCEED AS STEP 2.
 - IF THE EXISTING DITCH IS PROPOSED TO BE RELOCATED OR ABANDONED, THEN A SUITABLE CULVERT/CULVERTS SHALL BE SIZED AND AN ADEQUATE MAINTENANCE SERVITUDE SHALL BE SHOWN.
 - IN CALCULATING RUN OFF OR SIZING CULVERTS FOLLOW THE PROCEDURES OUTLINED IN THE ST. BERNARD PARISH DRAINAGE DESIGN MANUAL.

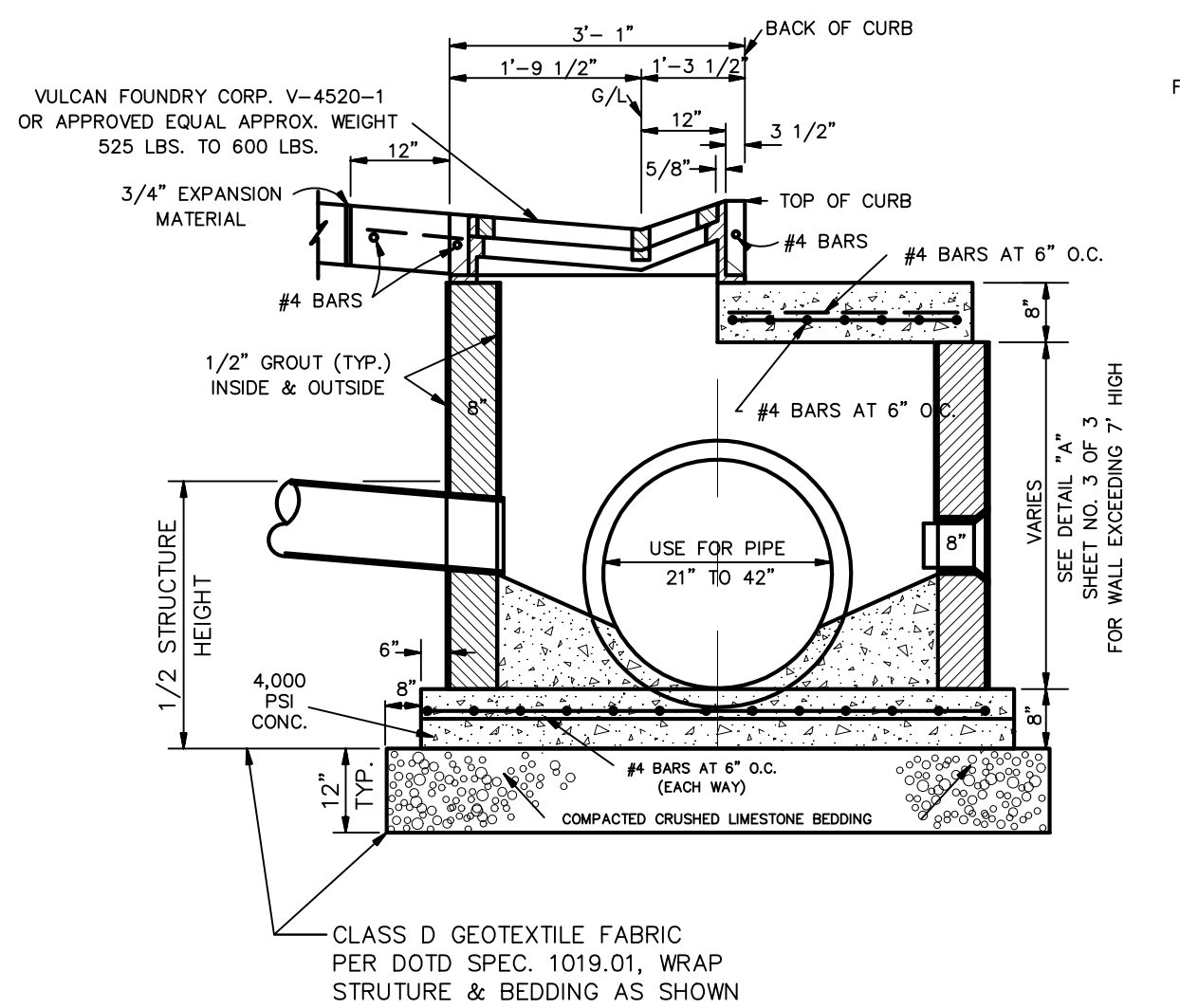


CANAL DISCHARGE PIPE - TYPE A

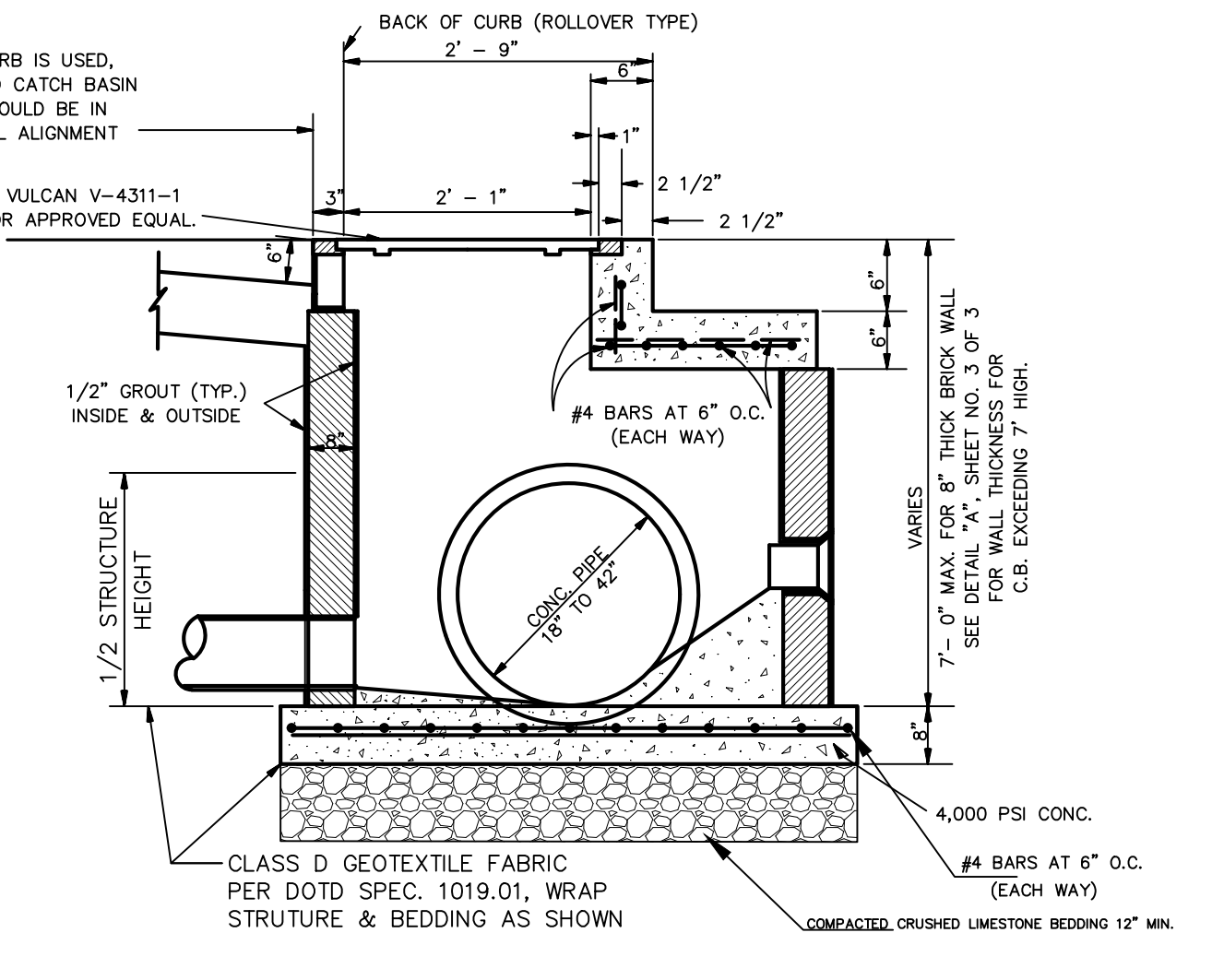


CANAL DISCHARGE PIPE - TYPE B

- NOTES:
- GAGES SHOWN ON THE CHART AT LEFT ARE MAX. REQUIREMENTS. LIGHTER GAGES MAY BE ALLOWED SUBJECT TO APPROVAL OF THE DIRECTOR OF ENGINEERING BASED ON SOILS/WATER PH AND RESISTIVITY ANALYSIS TAKEN ON SITE BY OTHERS. IN THE EVENT THAT A LIGHTER GAGE IS ALLOWED, THE DESIGN ENGINEER SHALL SPECIFY SUCH GAGE IN THE PLANS AND SPECIFICATIONS.
 - GAGES AND CORRUGATIONS SHOWN ABOVE ARE APPLICABLE TO ROUND PIPES OR ARCH PIPE EQUIVALENTS
 - METAL ARCH PIPE CONNECTIONS TO CONCRETE ARCH OR CIRCULAR PIPE WILL NOT BE PERMITTED.
 - A SET OF LIFTING LUGS SHALL BE PROVIDED ON EACH INDEPENDENT SECTION OF PIPE.
 - PIPE SHALL BE FABRICATED WITH CIRCUMFERENTIAL PARALLEL CORRUGATIONS AND SHALL UTILIZE THE RIVETING PROCESS AS OUTLINED IN SECTION 1007.03 OF LADOTA SPECIFICATIONS (1982 EDITION). HELICAL PIPES MIGHT BE USED PROVIDED THEIR ENDS SHALL BE REROLLED TO ACCOMMODATE ANNULA BANDS.



TYPE 4 CATCH BASIN



OFFSET CATCH BASIN TYPE NO. 5

PROJECT NAME :

PROJECT NUMBER :



DATE 08.09.2019
DRAWN BY MF/AR
SCALE: NTS
FILENAME: S:\Public Works Shared\St. Bernard Standard Details

ST. BERNARD PARISH GOVERNMENT
STANDARD DETAIL PLANS
DRAINAGE DETAILS (1 OF 3)

APPROVED BY
DATE
THIS DOCUMENT WILL BE CONSIDERED A COPY ONLY, UNLESS EMBOSSED BY A REGISTERED ENGINEERS SEAL

DRAWING NUMBER
SD - 5
SHEET 5 OF 13