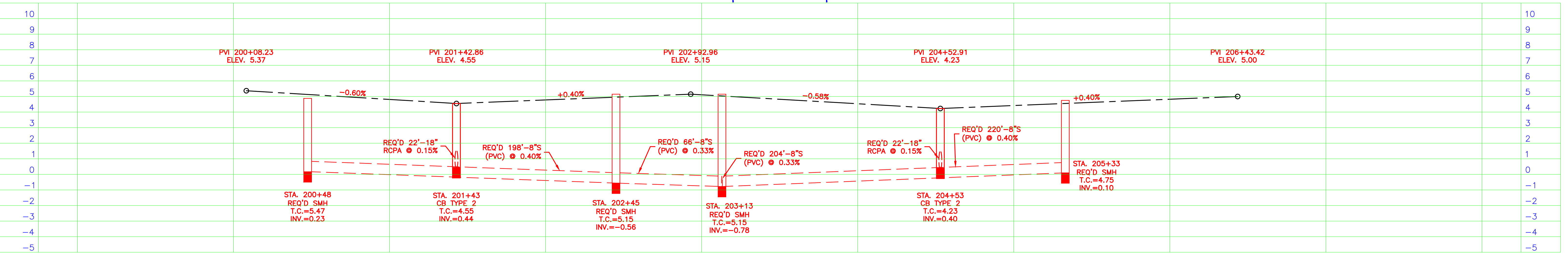
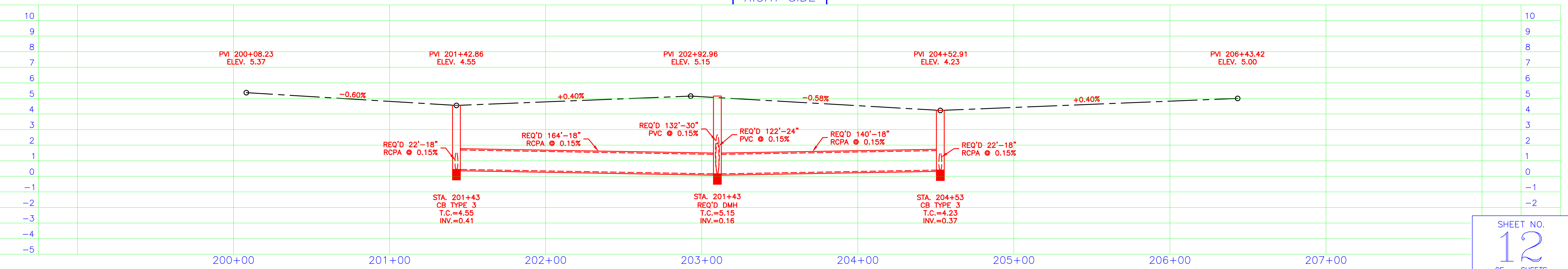
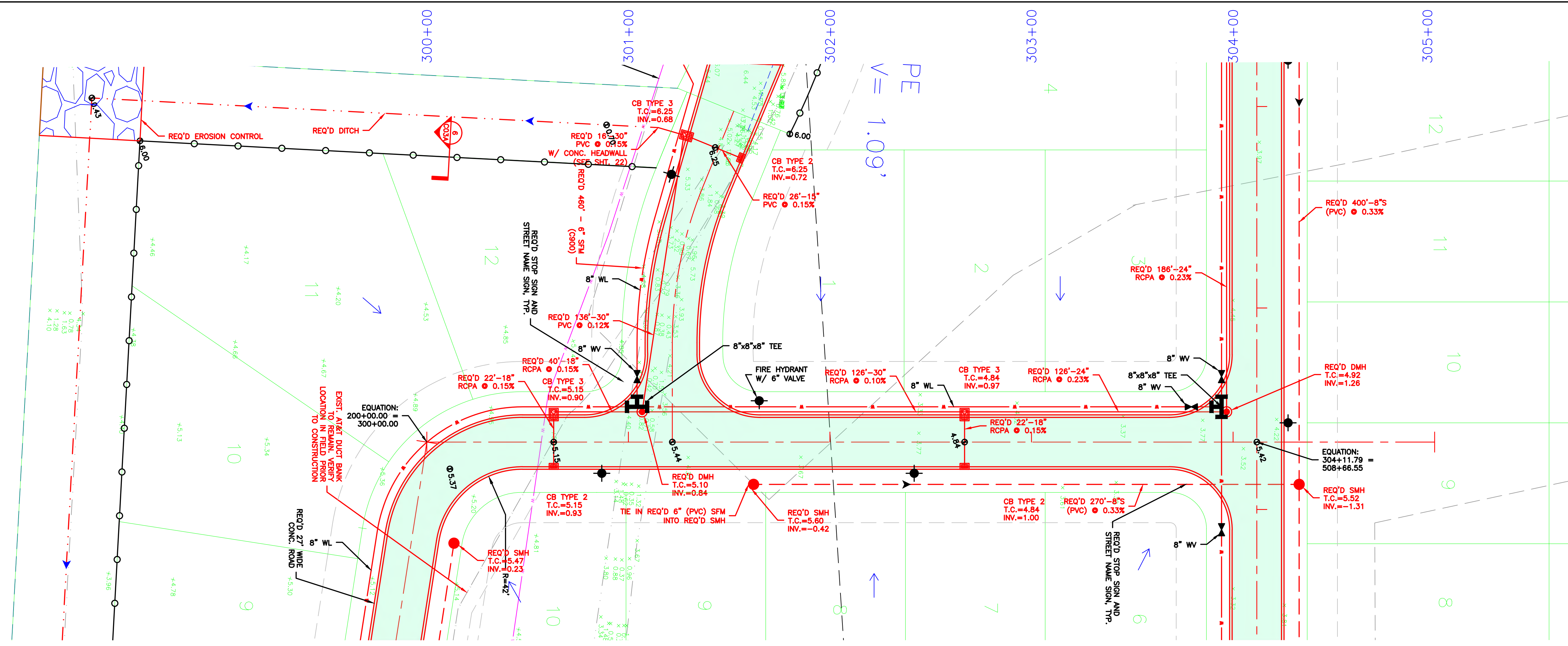
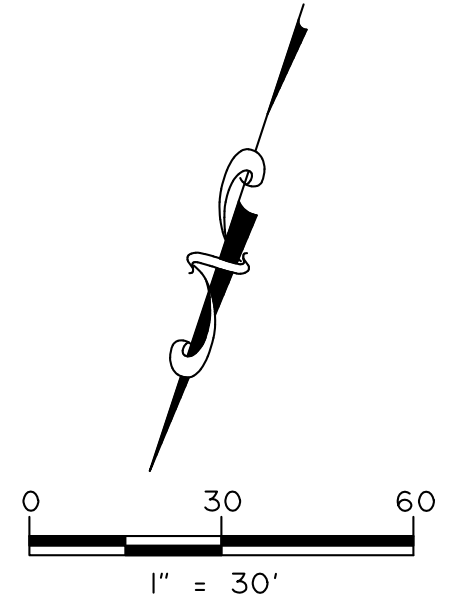
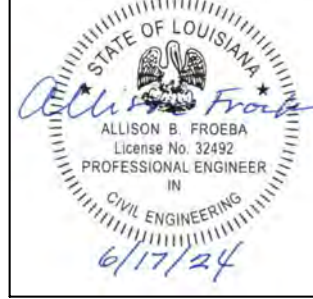


LEFT SIDE

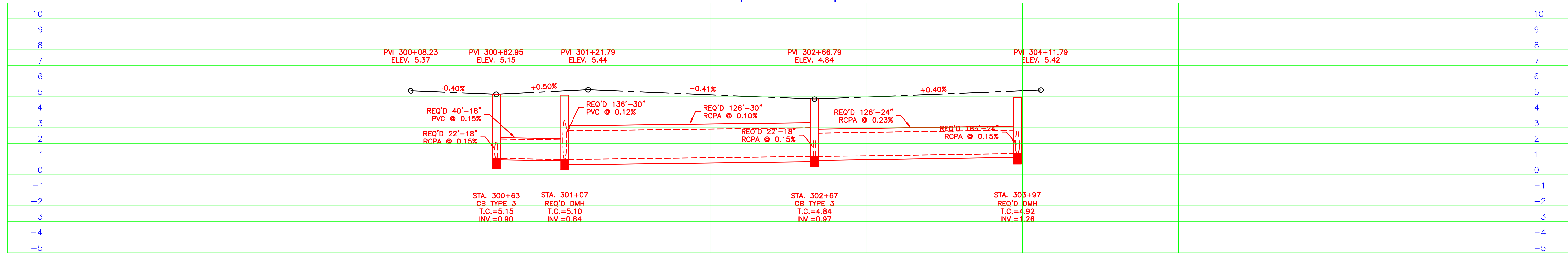


RIGHT SIDE

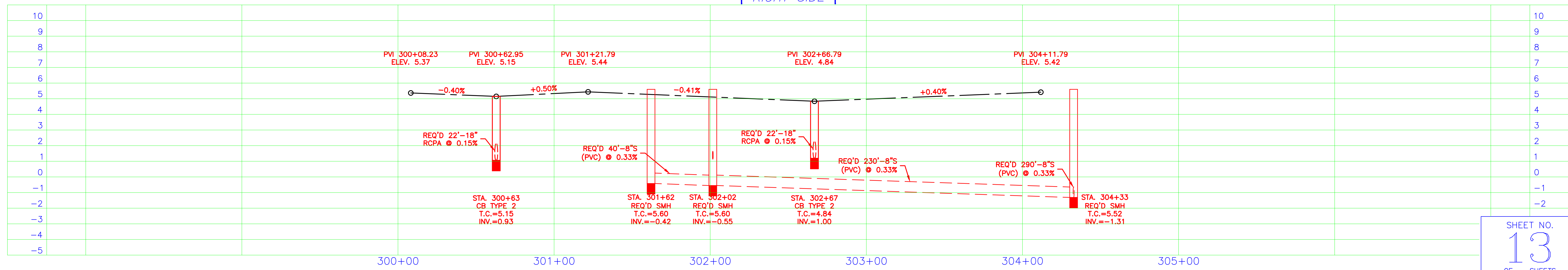


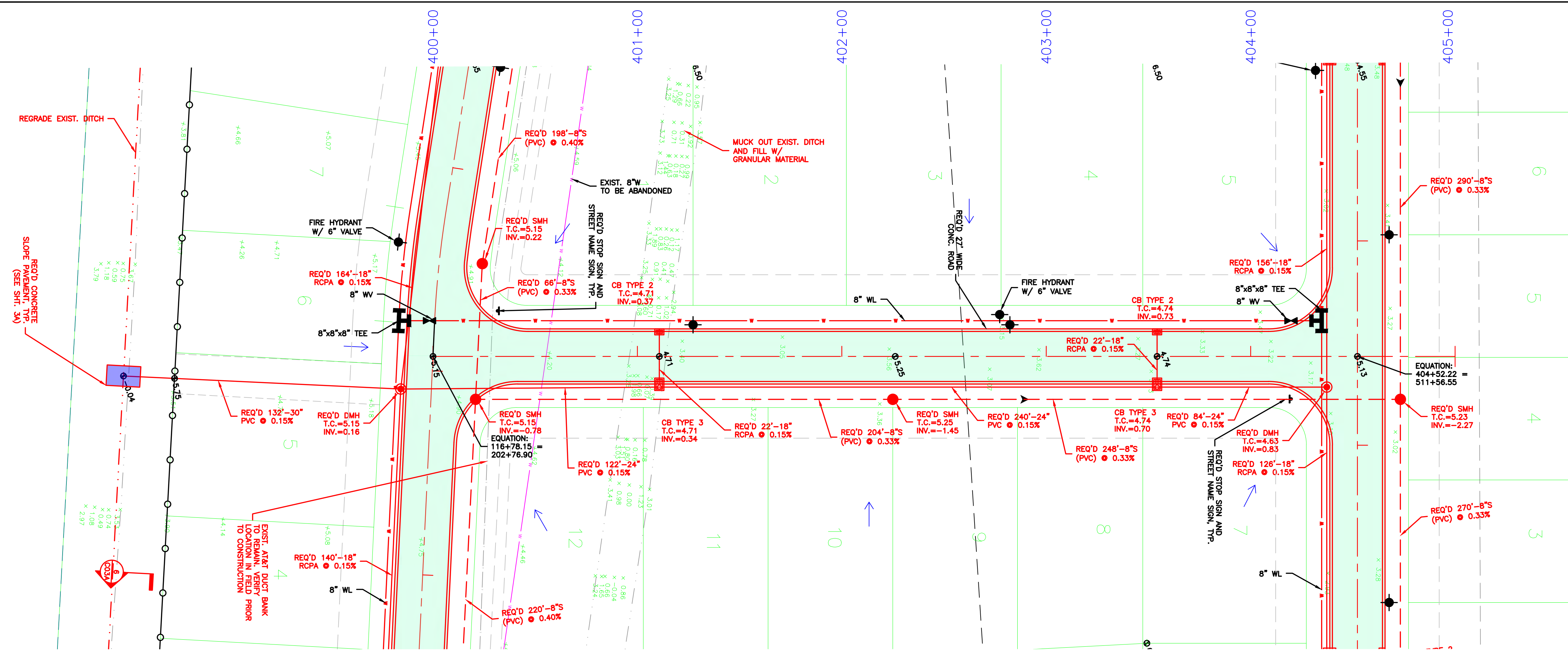
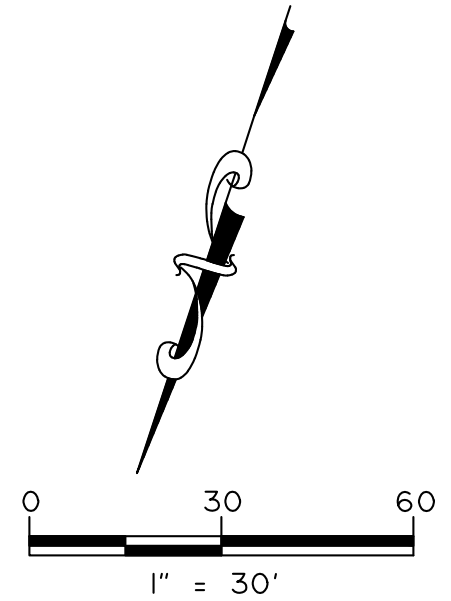
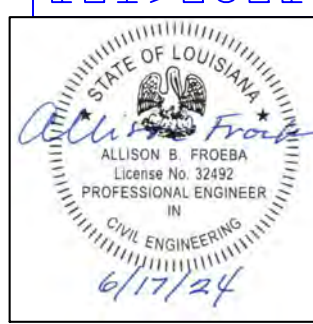


LEFT SIDE

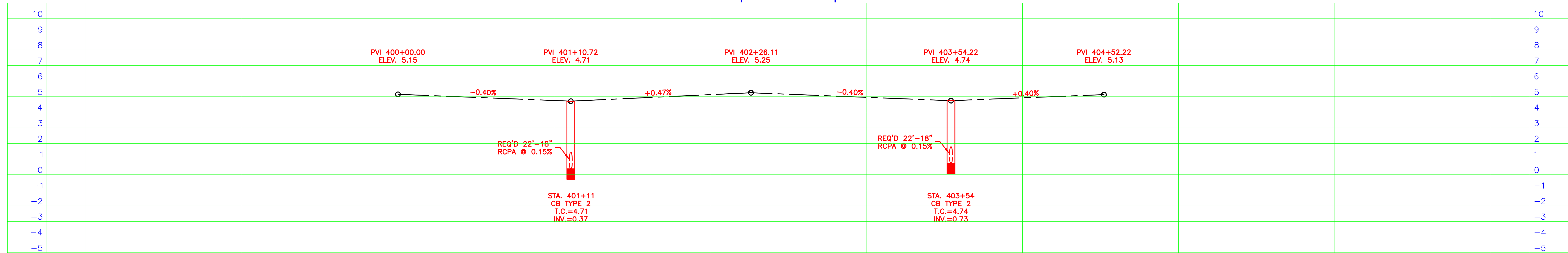


RIGHT SIDE

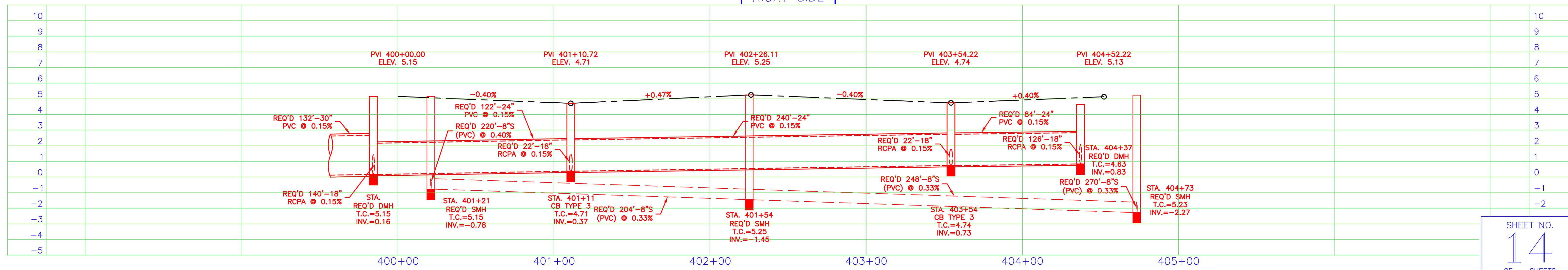




LEFT SIDE

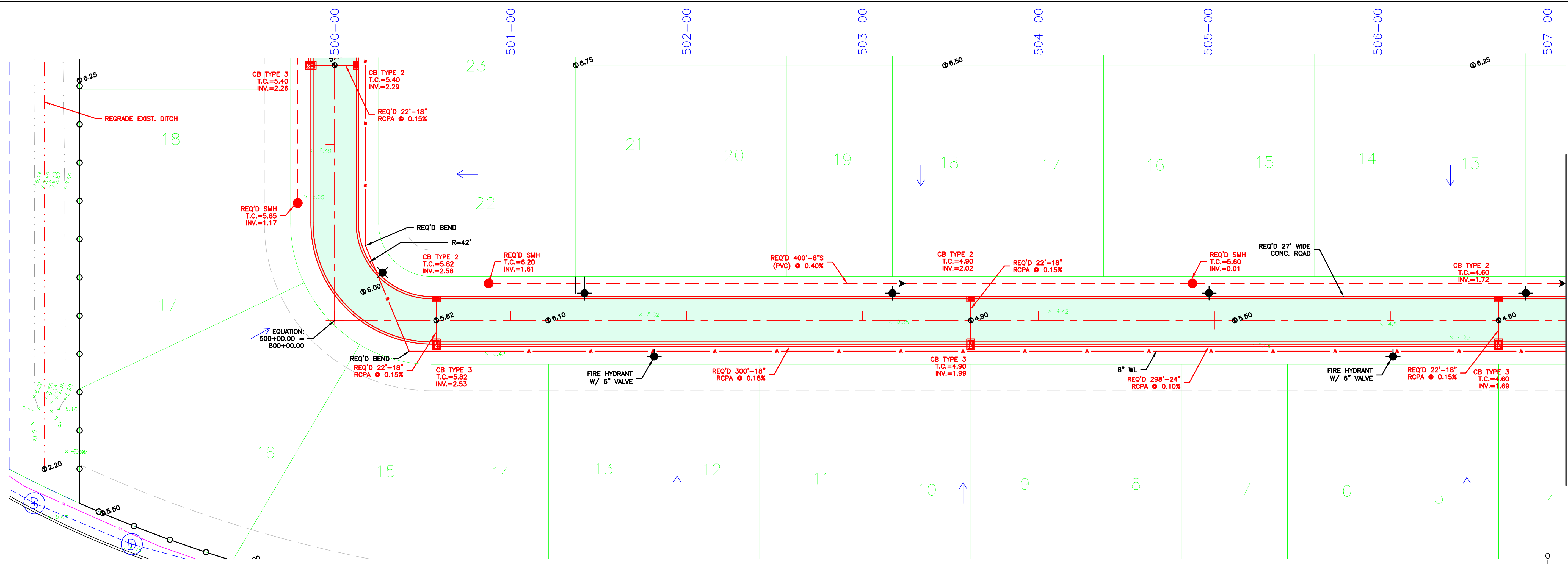


RIGHT SIDE

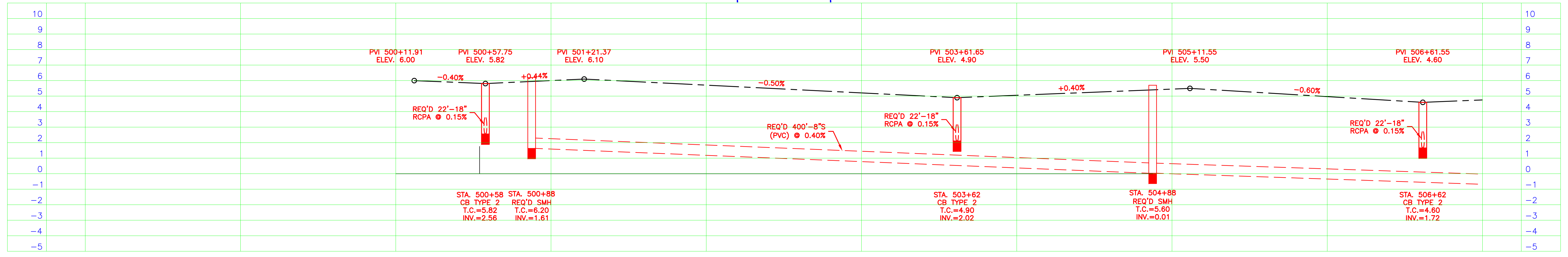




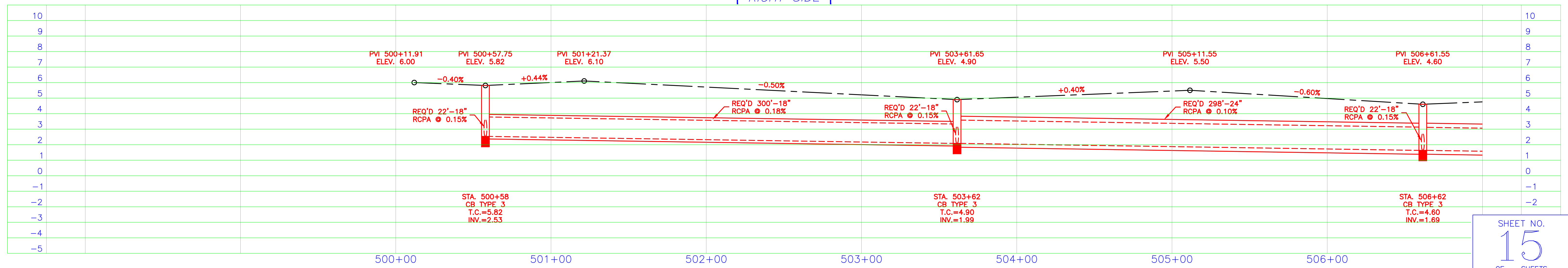
MATCHLINE (STA. 507+00)



LEFT SIDE

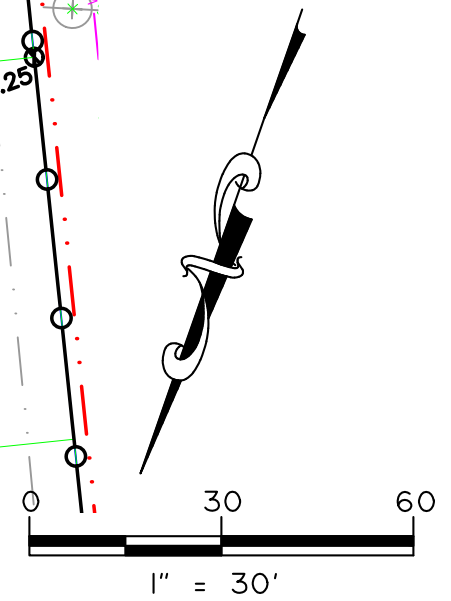
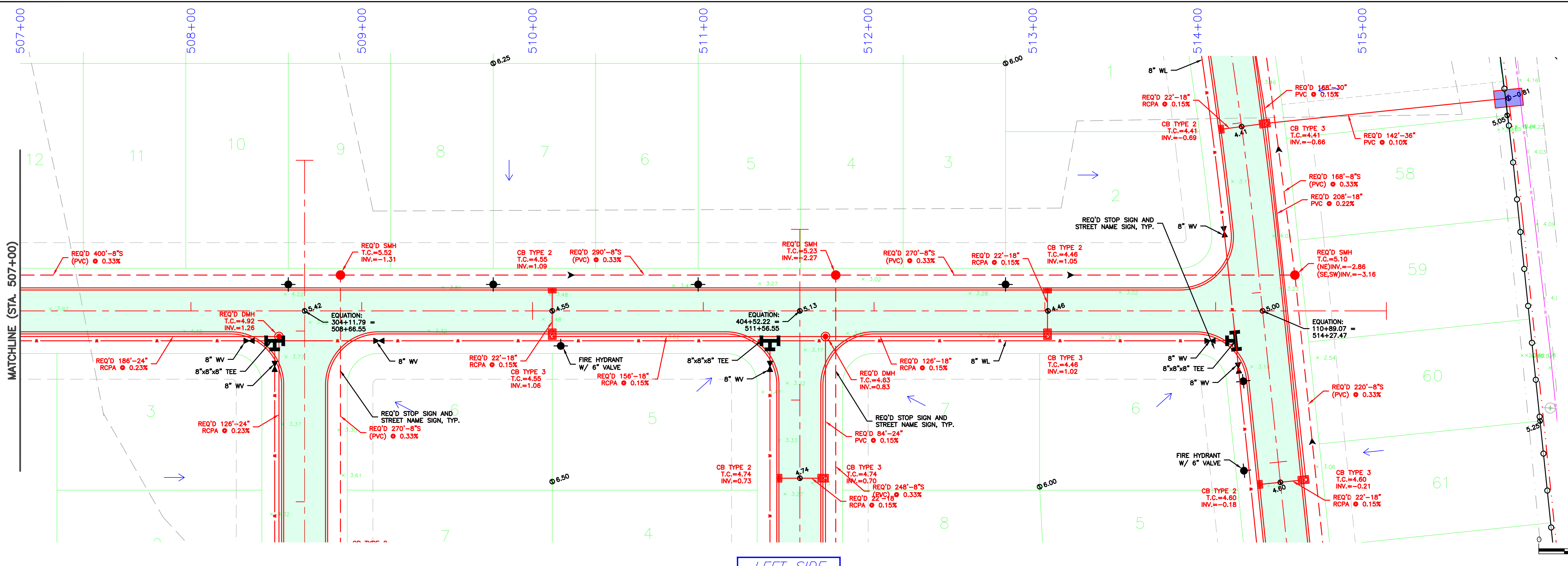


RIGHT SIDE

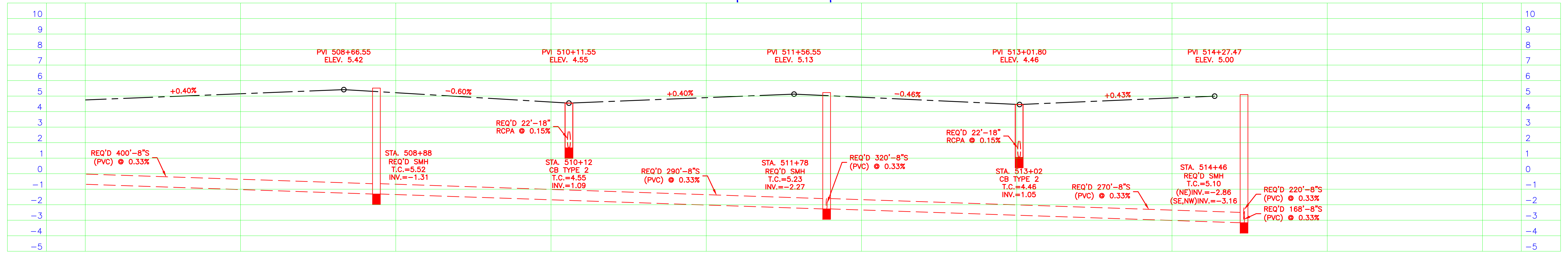




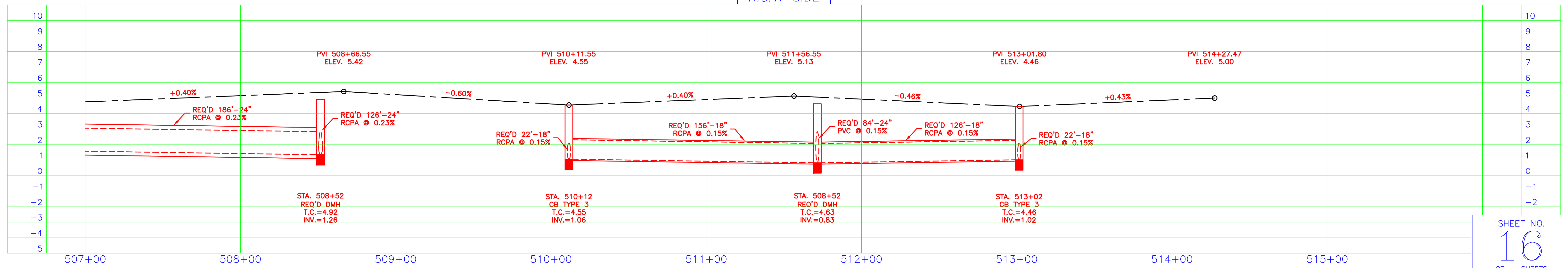
PROJECT NO. 20-1801
DWG FILE NO. 16 = Plan/Prof
VERTICAL SCALE 1" = 3'
DRAWN BY K.J.B. AUB
CHECKED BY M.J.F. AUB
DATE 07-29-2023
REVISED 06-17-2024

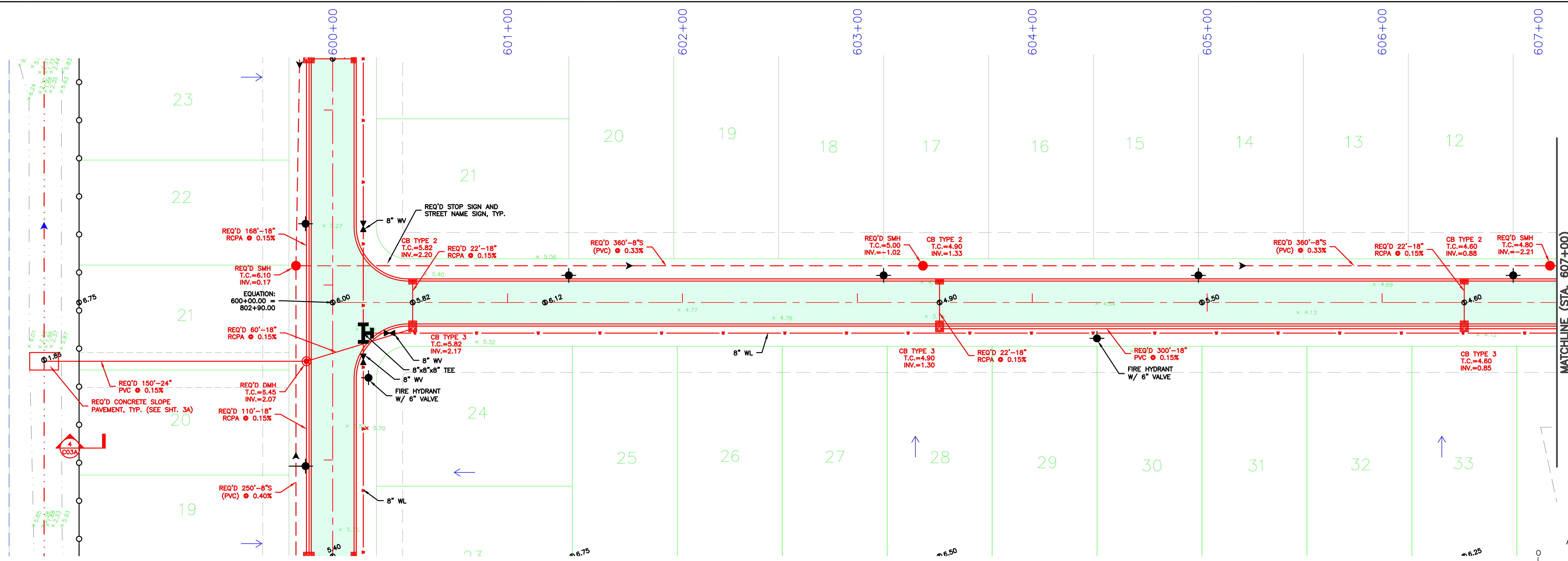
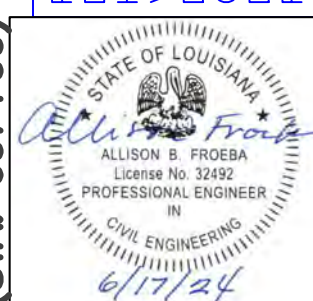


LEFT SIDE

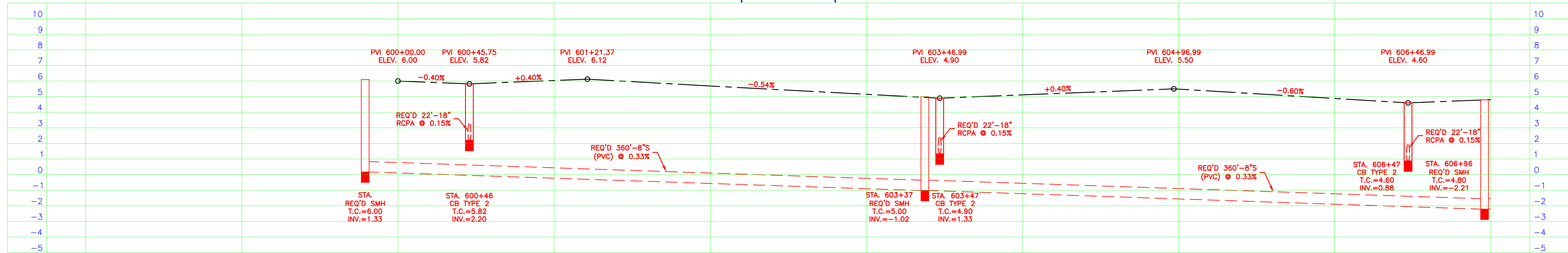


RIGHT SIDE

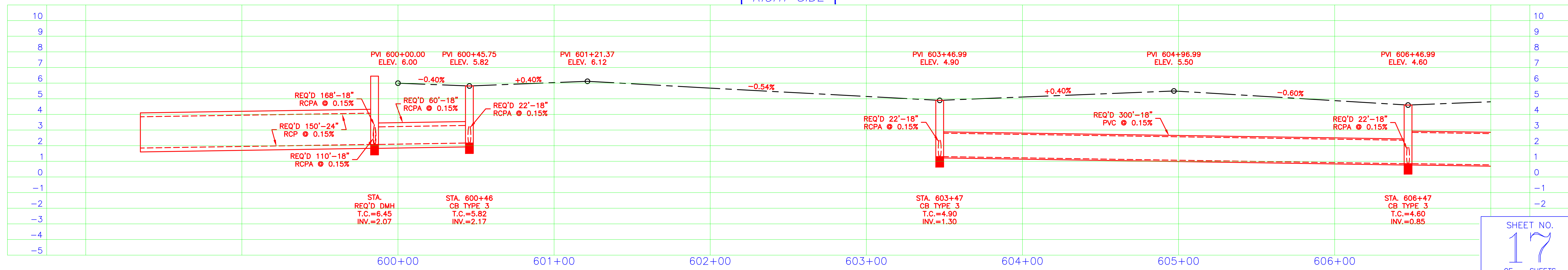


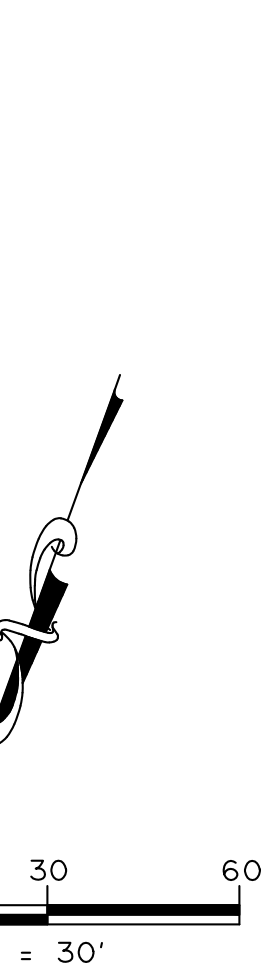


LEFT SIDE

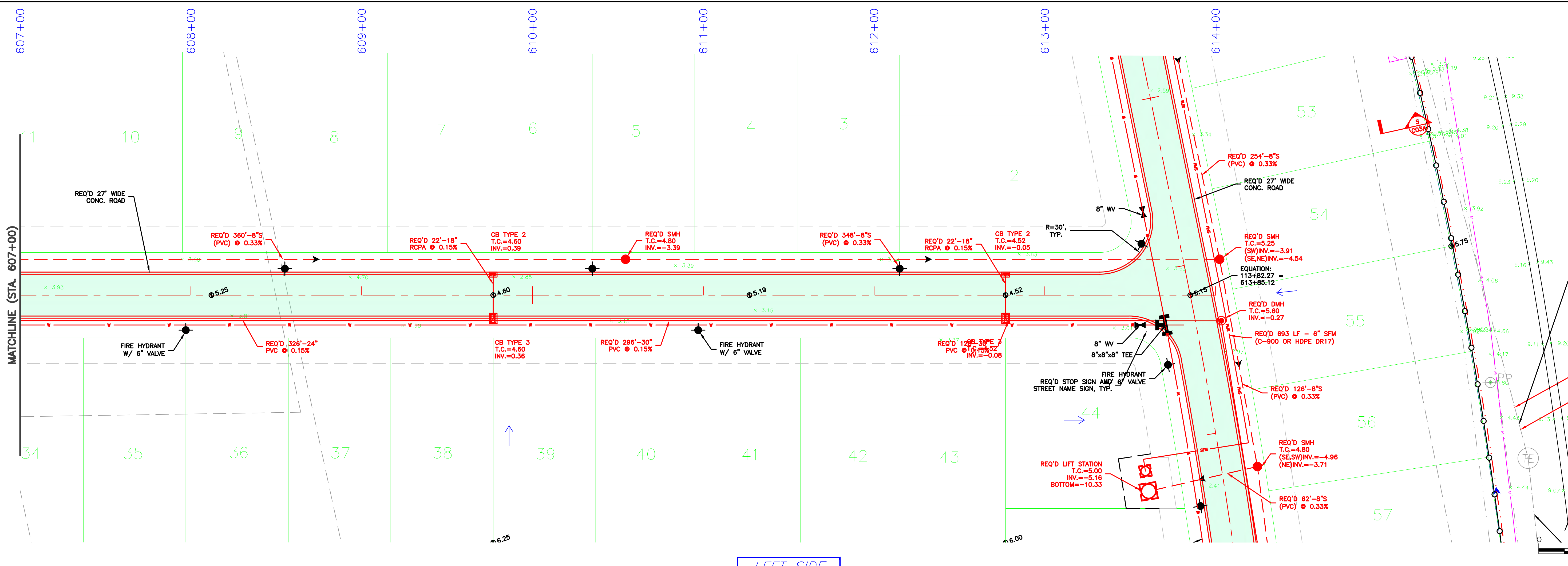


RIGHT SIDE

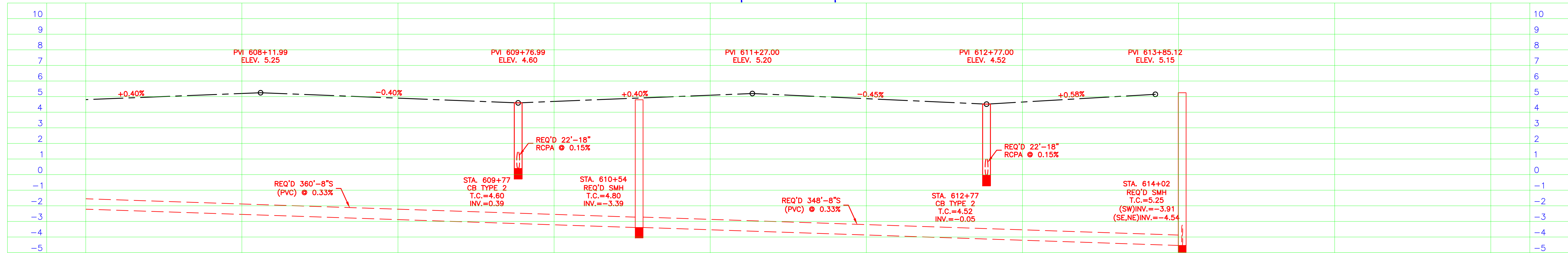




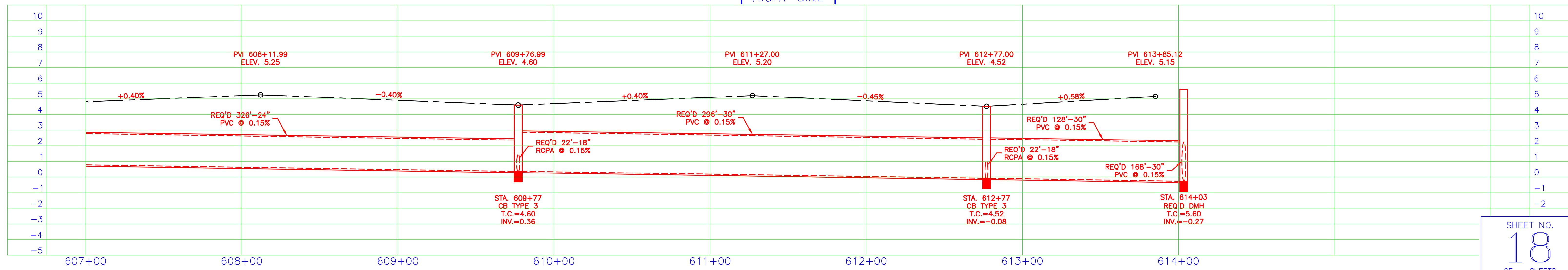
1" = 30'

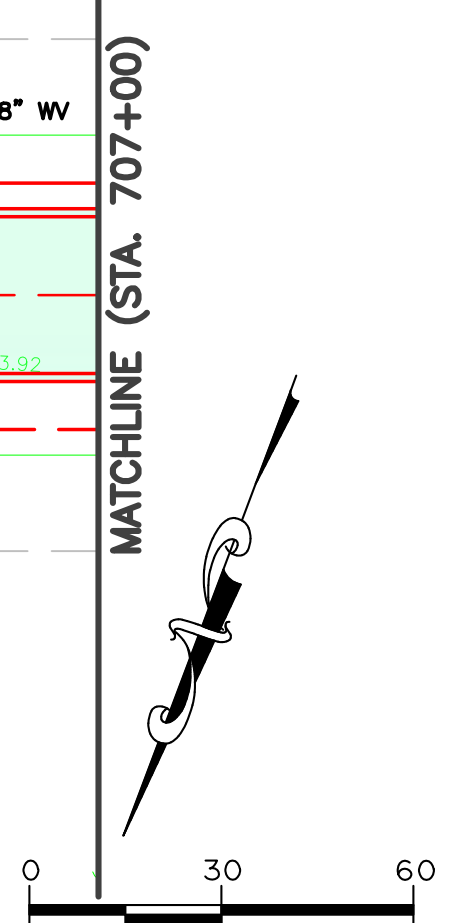
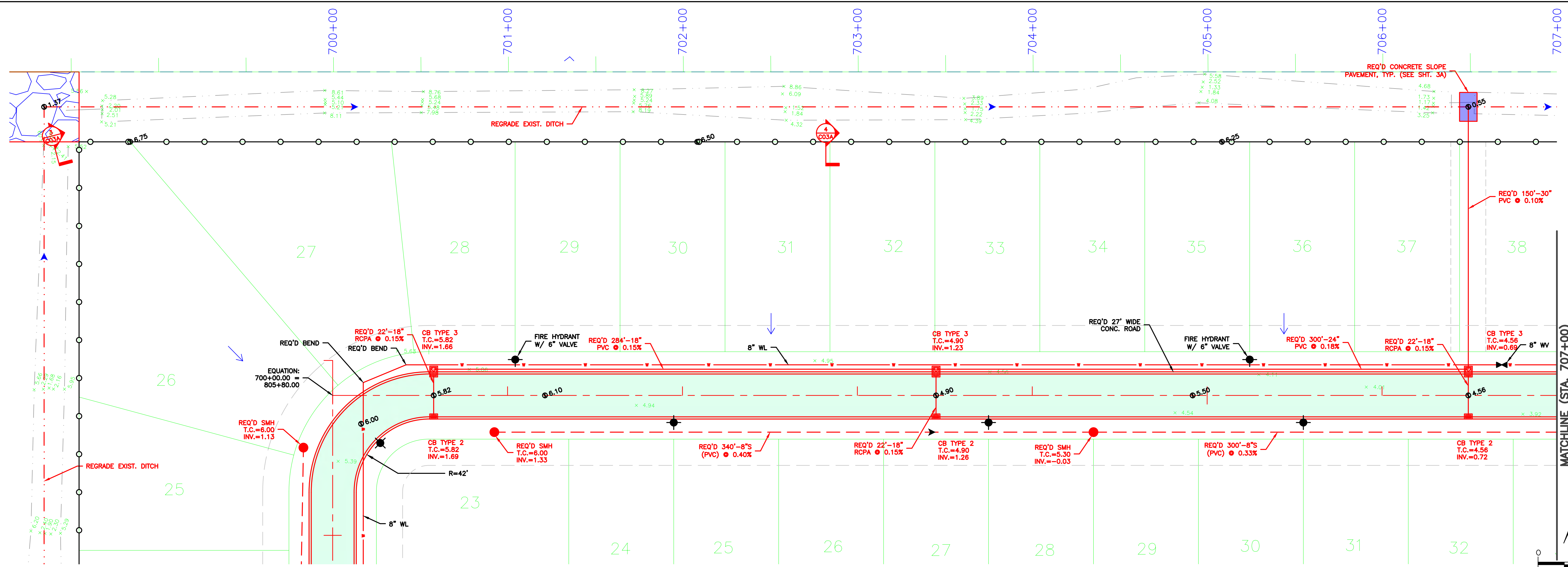
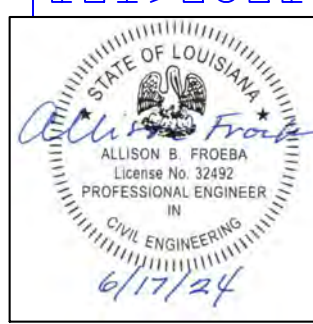


LEFT SIDE

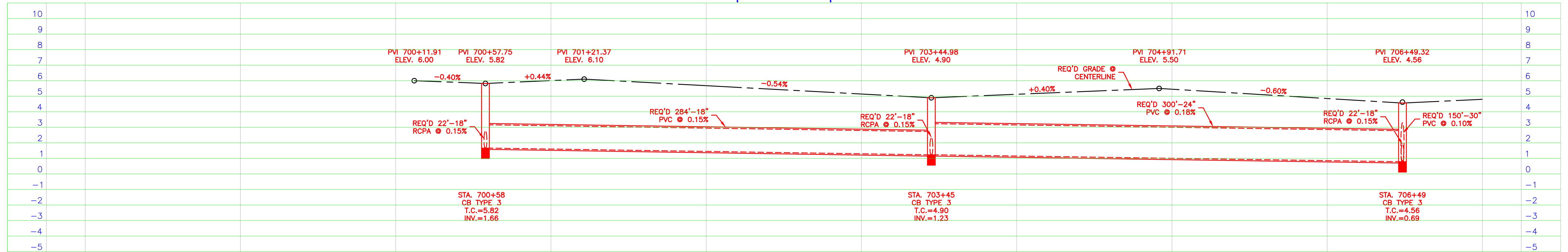


RIGHT SIDE

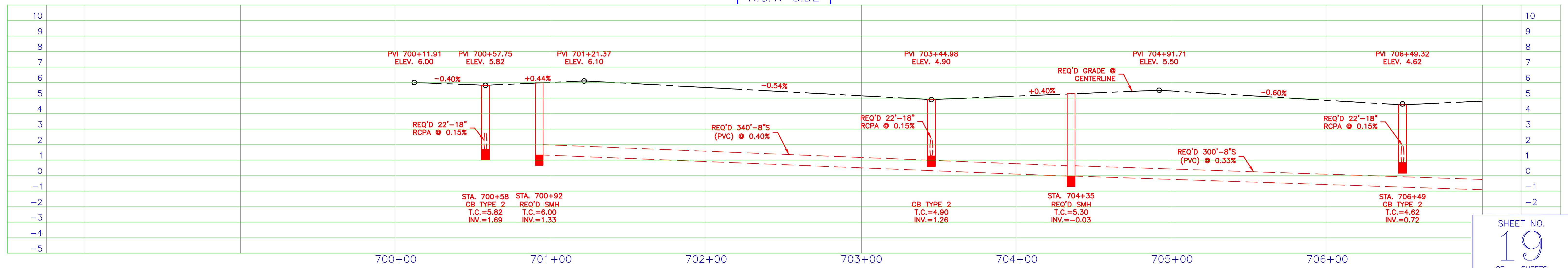


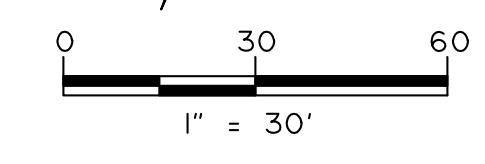
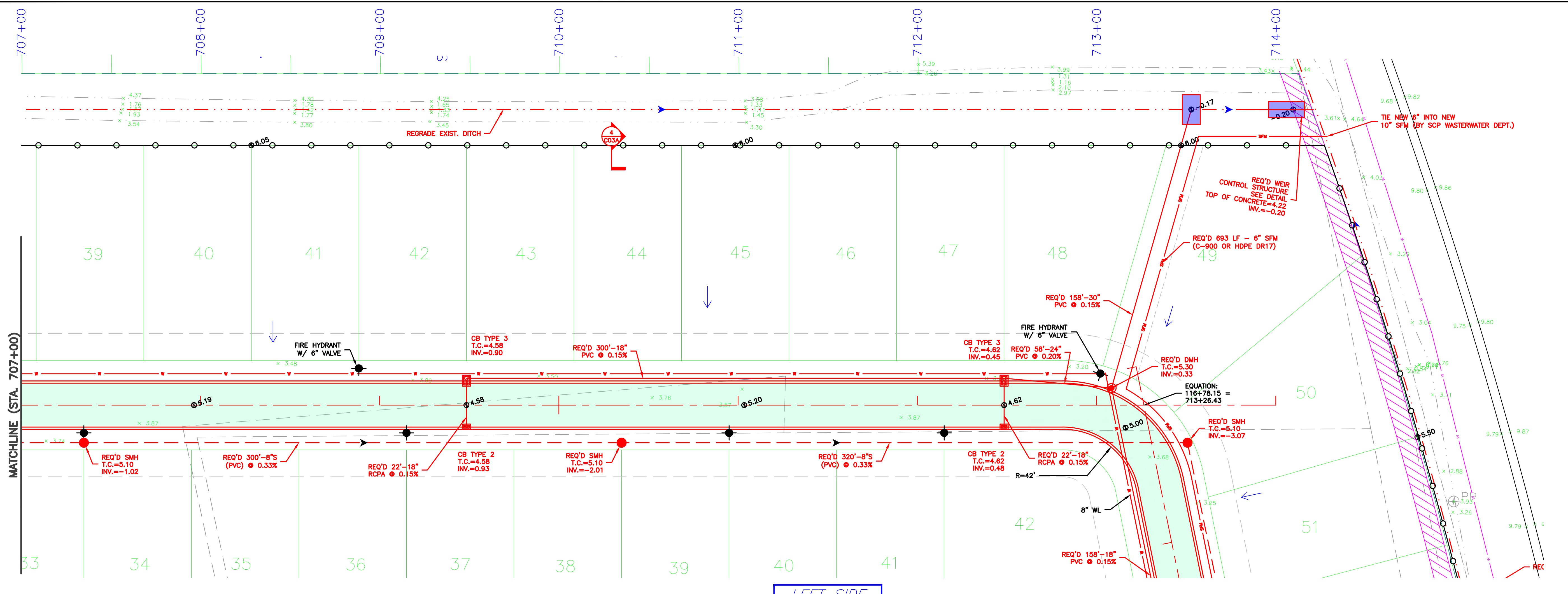


LEFT SIDE

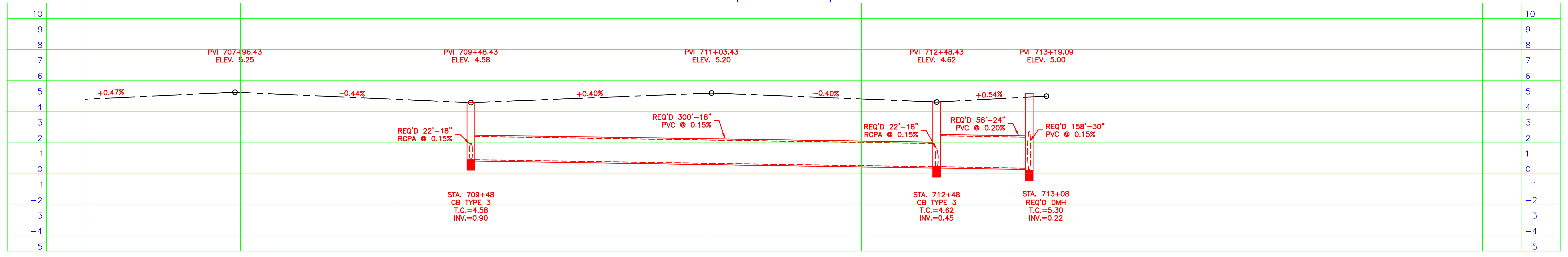


RIGHT SIDE

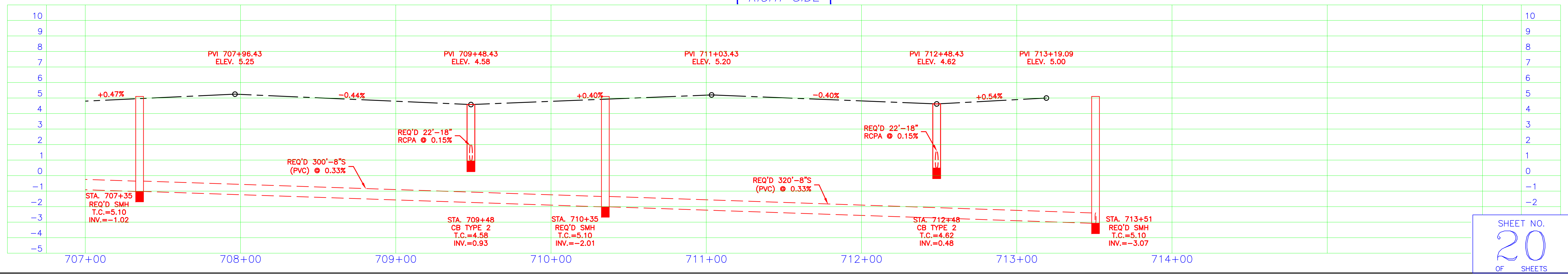


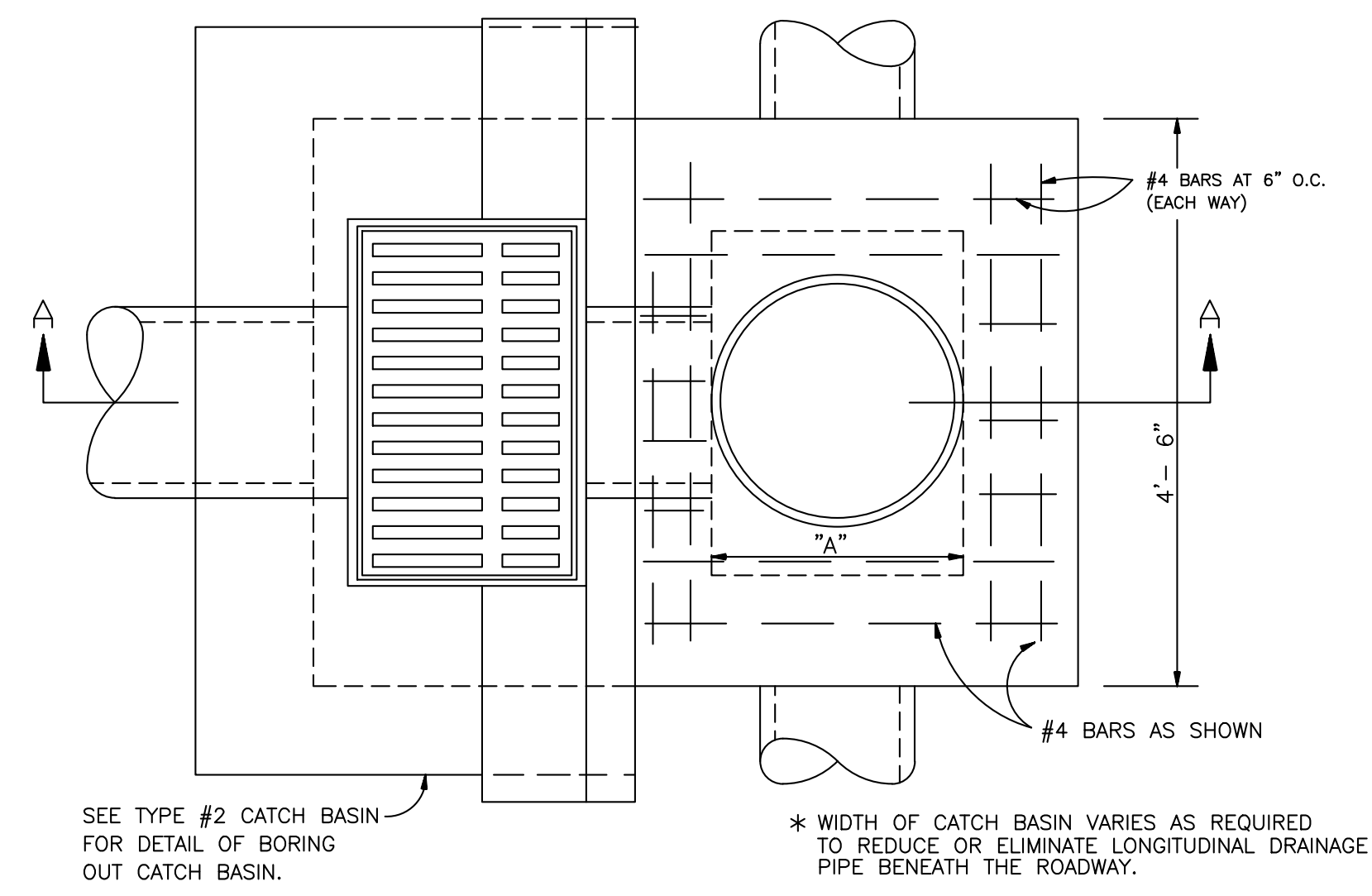


LEFT SIDE



RIGHT SIDE





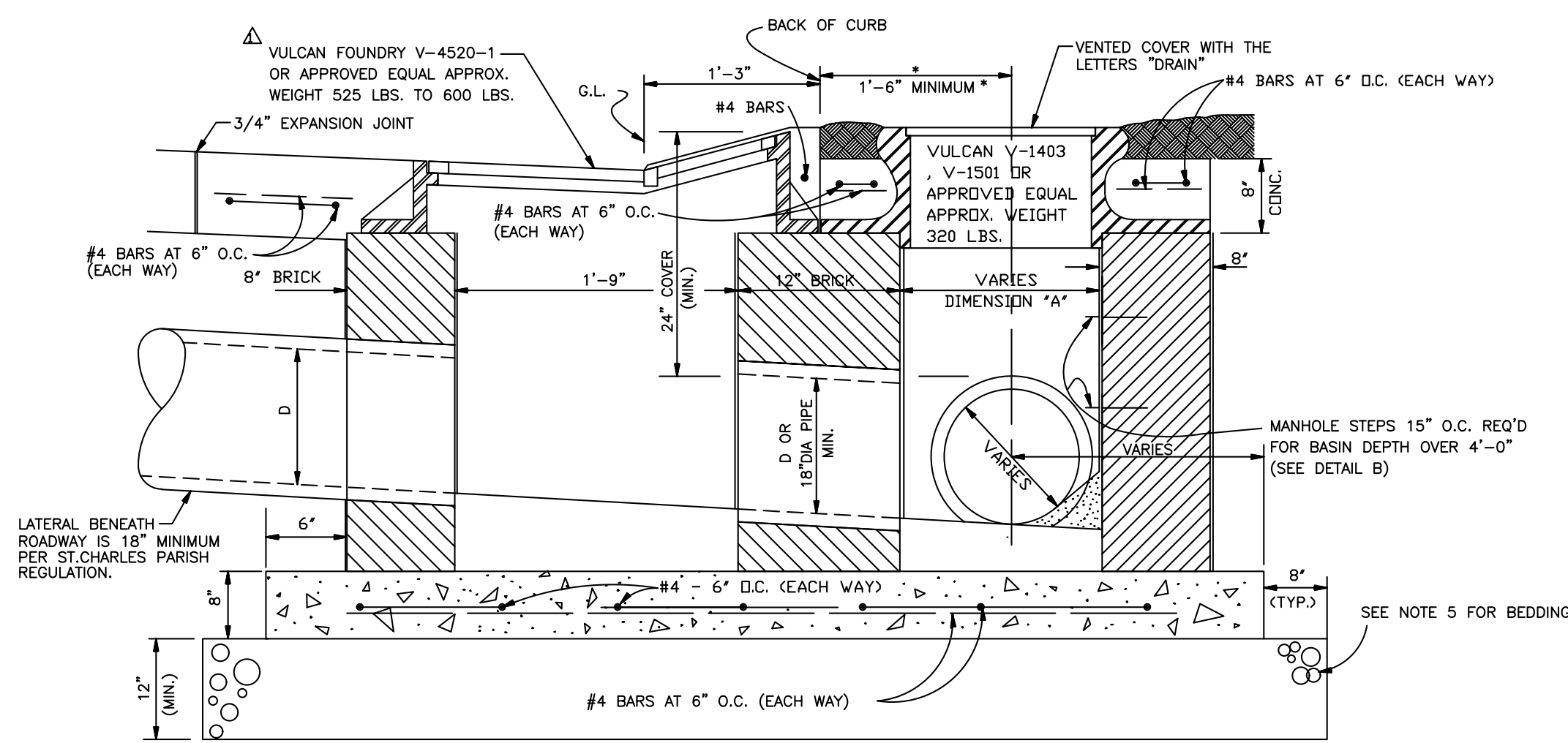
PLAN OF TYPE 3 CATCH BASIN

CANAL DISCHARGE PIPE CHART (C.S.P.)

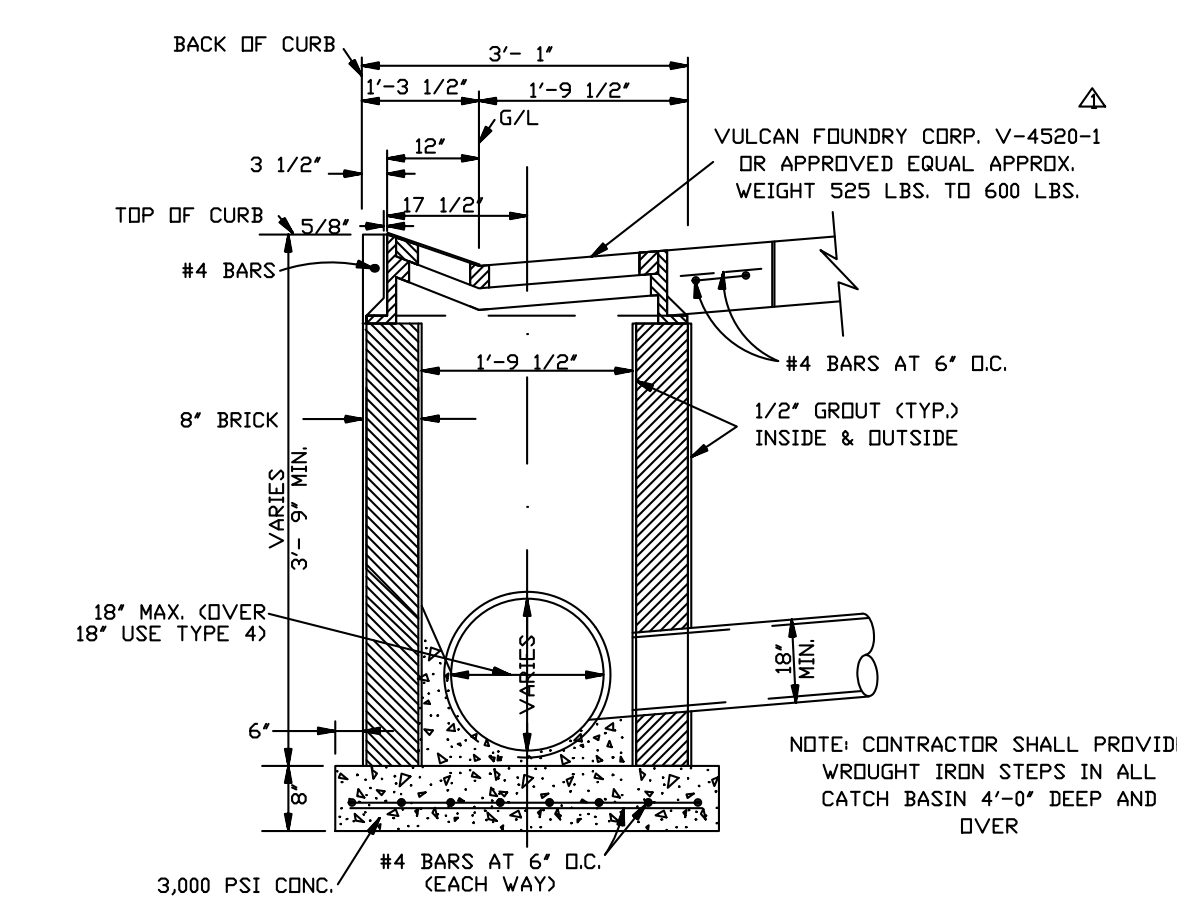
R.C.P. NOM. DIA.	WALL THICKNESS	R.C.P. O.D.	REQ'D C.S.P. I.D.	GAGE REQ'D
12"	2"	16"	16.5"	Δ 14
15"	2.25"	19.5"	20"	Δ 12
18"	2.5"	23"	23.5"	Δ 12
21"	2.75"	26.5"	27"	Δ 12
24"	3"	30"	30.5"	Δ 12
27"	3.25"	33.5"	34"	Δ 12
30"	3.50"	37"	37.5"	Δ 12
36"	4"	44"	44.5"	Δ 12
42"	4.5"	51"	51.5"	Δ 12
48"	5"	58"	58.5"	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

- NOTES
- 1-CONCRETE STRENGTH TO BE 4'000 PSI (MIN.) AT 28 DAYS.
 - 2-WHEN BOX IS 7'-0" OR LESS IN HEIGHT, USE ONE LAYER OF BRICK. WHEN BOX'S HEIGHT IS GREATER THAN 7'-0" BUT LESS THAN 12'-0" USE TWO LAYERS OF BRICK.
 - 3-ALL MASONRY TO BE LAID WITH RUNNING BOND AND HEADER COURSE (EVERY FOURTH LAYER).
 - 4-ALL WALLS TO BE PLASTERED 1/2" THICK INSIDE AND OUTSIDE.
 - 5-12" THICK CRUSH STONE BEDDING FOUNDATION SHALL BE REQUIRED UNDER ALL MANHOLES AND CATCH BASINS.
 - 6-ALL CATCH BASINS AND MANHOLES GREATER THAN 4'-0" DEEP ARE REQUIRED TO HAVE IRON STEPS.
 - 7-CONTRACTOR MAY SUBSTITUTE "PRECAST CONCRETE" OR POURED IN PLACE CONCRETE" DRAIN BASINS AND TRANSITION BOXES ONCE THE SUBMITTAL SHOWING ALL DETAILS IS APPROVED BY THE ENGINEER.

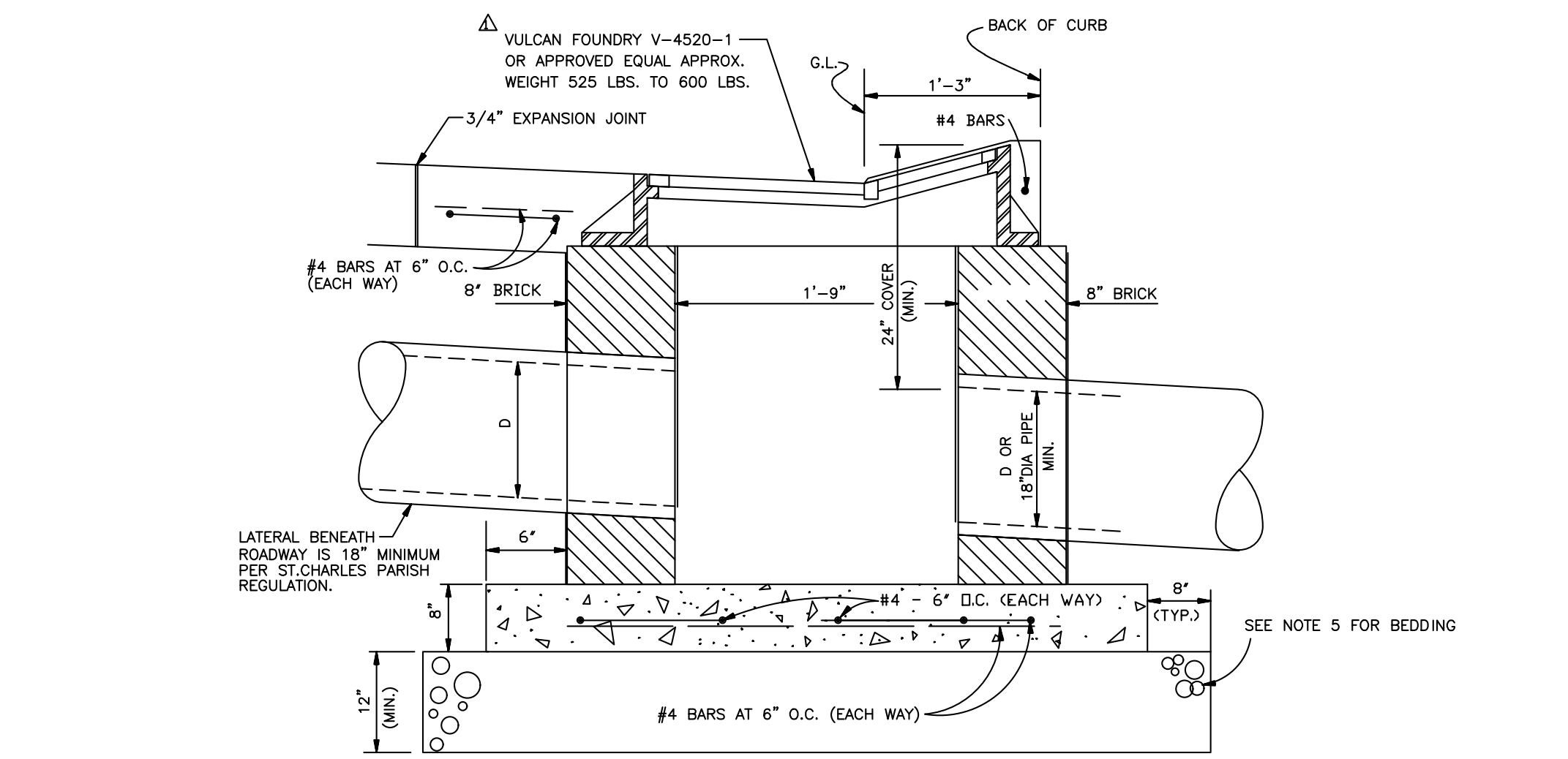
- 2 2/3" X 1 1/2" CORRUGATION REQUIRED.
- * 3" X 1" CORRUGATION REQUIRED.
- ** CORRUGATED STEEL TWO PIECE BAND WITH 4 - 7/16" GALVANIZED CIRCUMFERENTIAL RODS WITH LUGS. BANDS SHALL BE OF THE SAME COATING AS PIPE.



TYPE 3 CATCH BASIN SECTION A-A



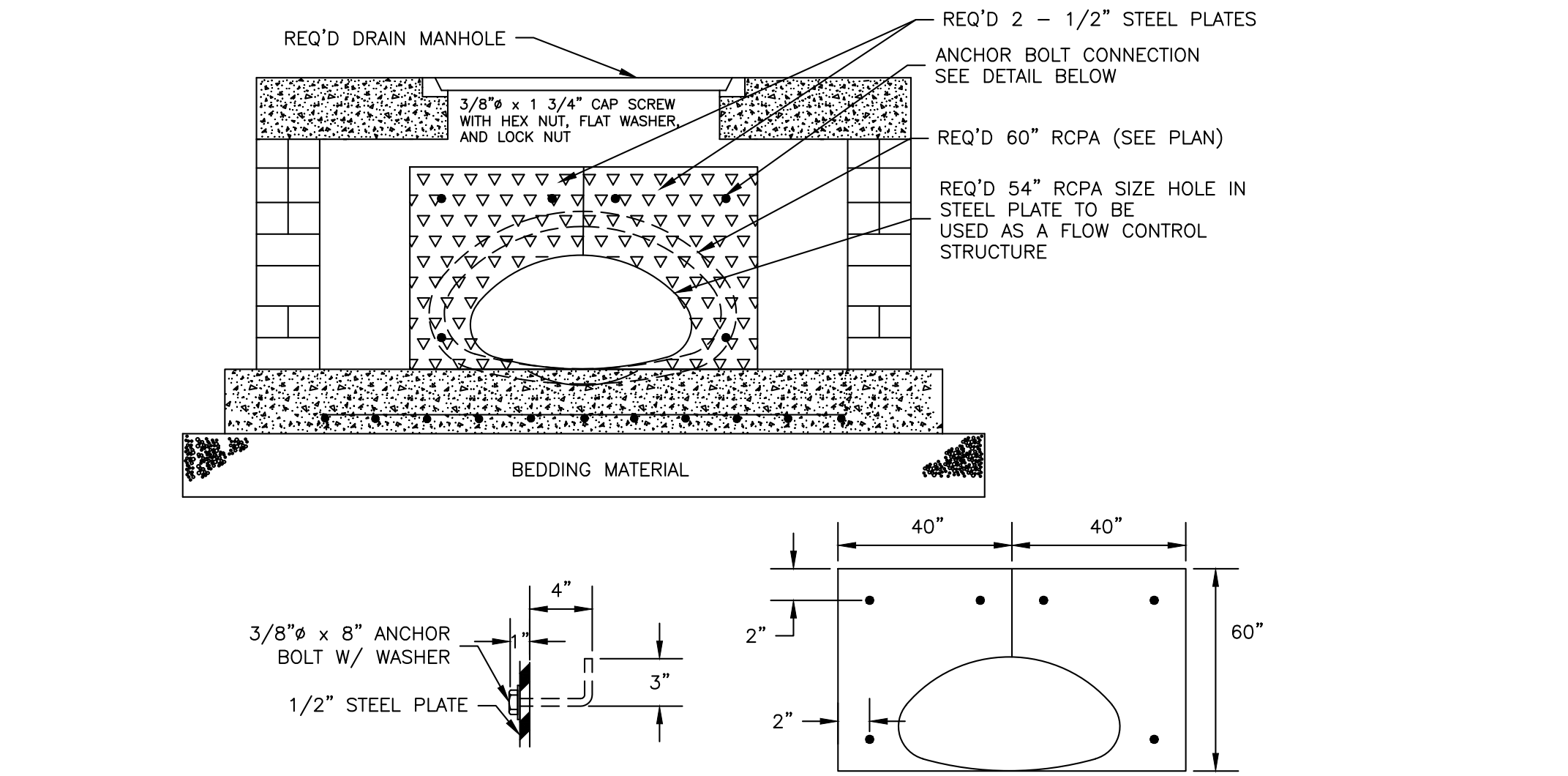
SIDE ELEVATION OF ROLLOVER CATCH BASIN TYPE 2



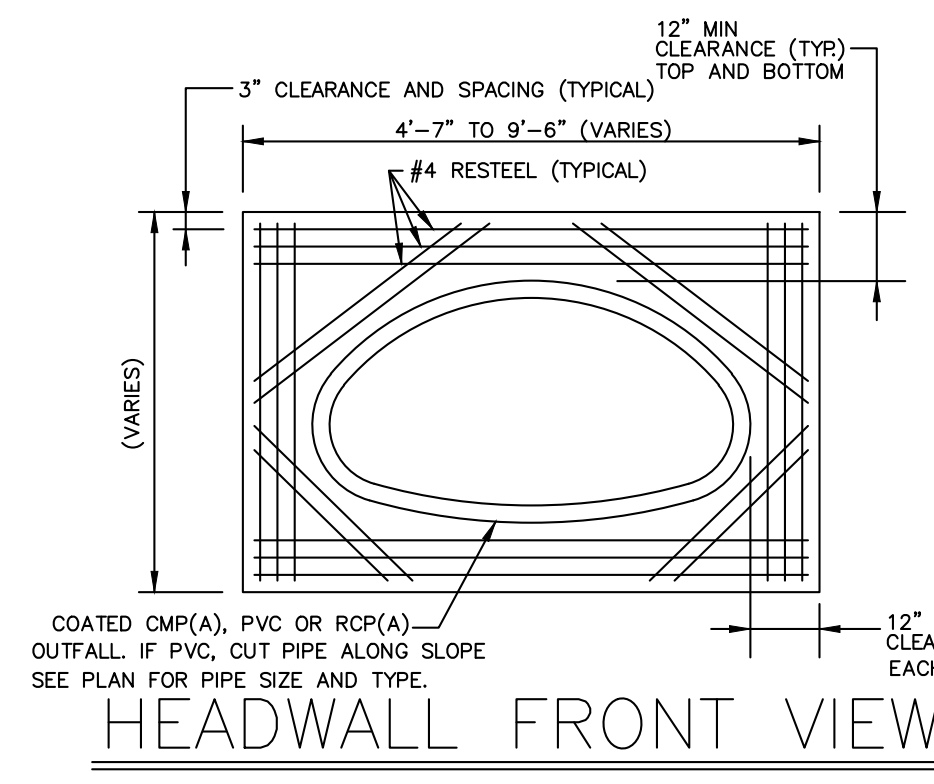
MODIFIED TYPE 3 CATCH BASIN SECTION

Call before you dig.
 1-800-972-0080

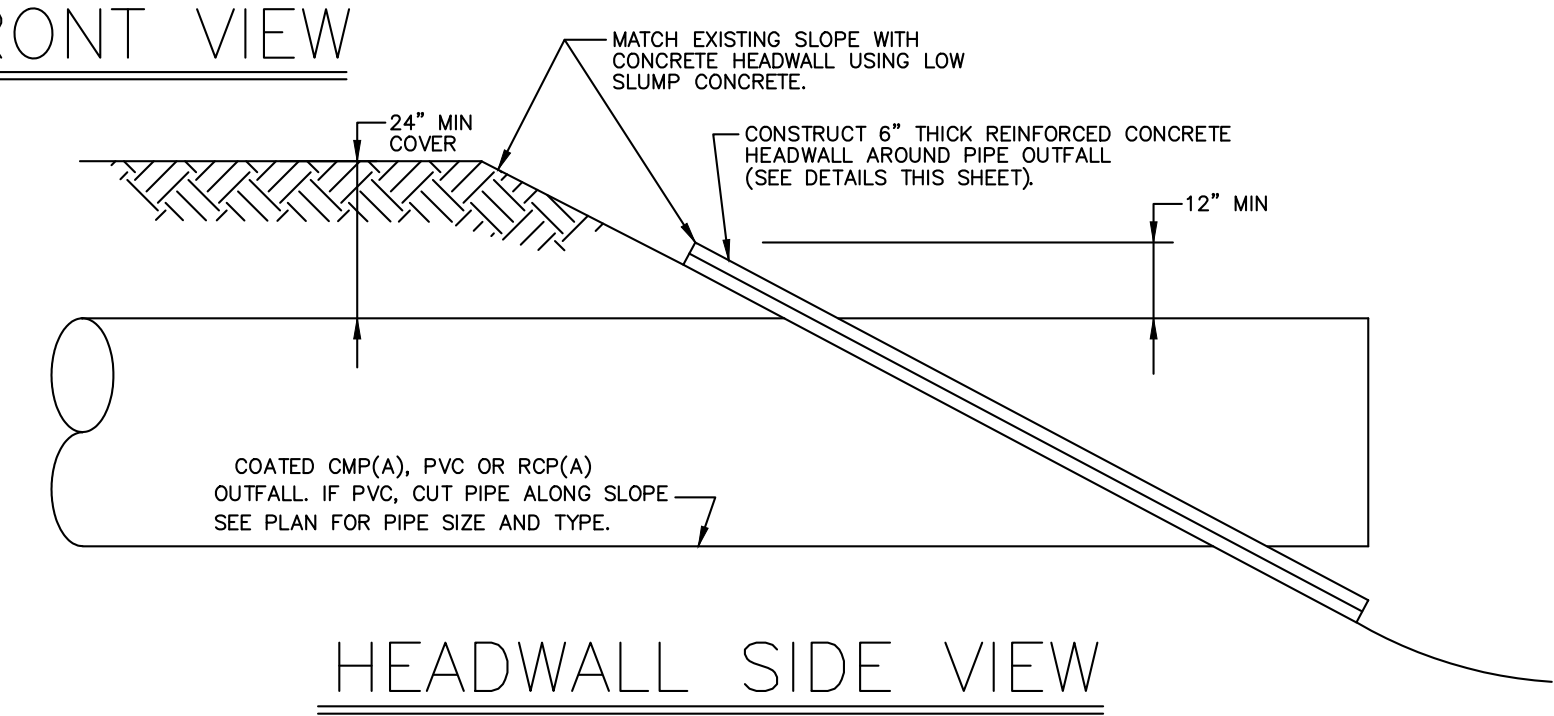
Note: "Prior to construction, the contractor will verify all utilities." If a conflict exist, notify the project engineer/architect.



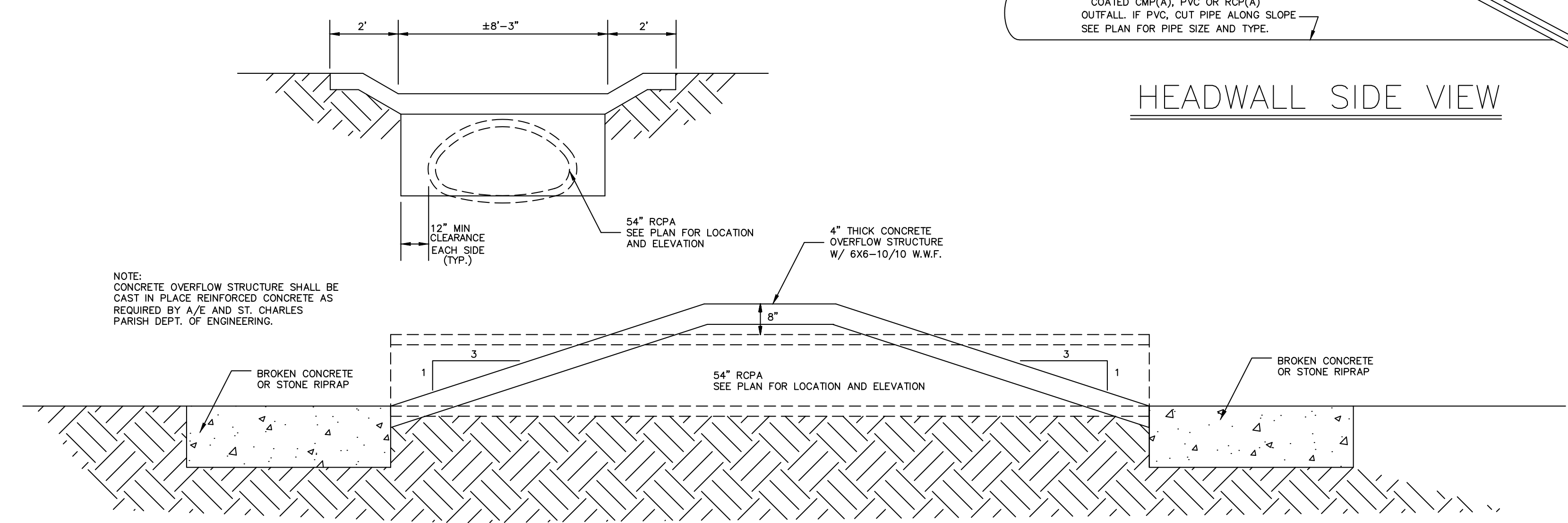
DRAINAGE MANHOLE W/ WEIR CONTROL STRUCTURE



DIMENSION "A"	REINFORCING	
	# SIZE	# EA. WAY
24" (STANDARD)	# 4	# 4
24" - 27"	# 5	# 4
27" - 30"	# 5	# 6
30" - 36"	# 5	# 8
36" - 48"	# 6	# 10



HEADWALL SIDE VIEW



TYPICAL WEIR CONTROL STRUCTURE

ALMEDIA GARDENS SUBDIVISION
 MISCELLANEOUS DRAINAGE DETAILS

ST. CHARLES PARISH



LA COA: 5809

NOTES:

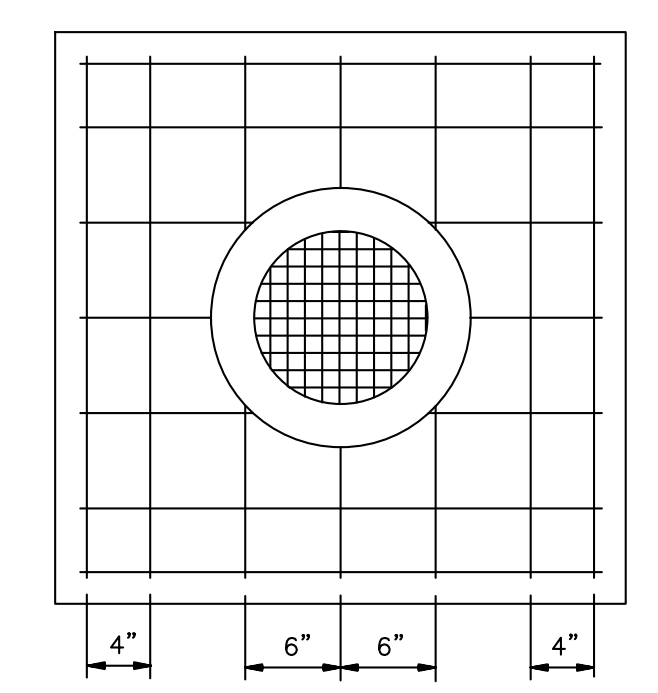
- CULVERT SIZE SHOWN PERTAIN TO B & S PIPE. (UNLESS OTHERWISE SPECIFIED).
- CONCRETE STRENGTH TO BE 3,000 PSI (MINIMUM) AT 28 DAYS.
- DIMENSIONS FOR BOTTOM SLAB AS PER DIMENSIONS FOR WALLS "A" AND "BB".
- WHEN BOX IS 7'-0" OR LESS IN HEIGHT, WALLS TO BE 8" THICK. WHEN BOX HEIGHT IS GREATER THAN 7'-0" BUT LESS 12'-0". SEE DETAIL "A".
- WIDTH OF STONE BEDDING SHALL BE AS PER DIMENSIONS SHOWN FOR WALLS "A" AND "B" PLUS 2'-0".
- ALL MASONRY TO BE LAID WITH RUNNING BOND AND HEADER COURSE (EVERY FOURTH LAYER).
- ALL WALLS TO BE PLASTERED INSIDE AND OUTSIDE (3/8" MIN. THICKNESS).
- ALL GRATES AND FRAMES SHALL BE VULCAN FOUNDRY OR APPROVED EQUAL.
- ALL CAST IRON TYPE AND WITHOUT PAINT.

NOTE:
 ALL GREY 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#306-891)

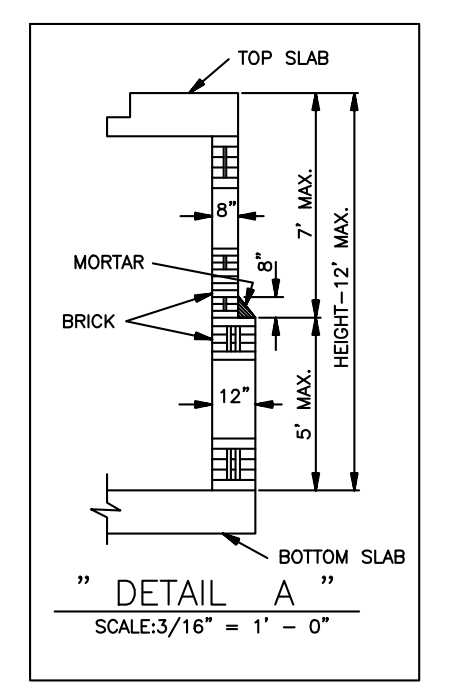
SQUARE "GRATE" (V-5726)							
CULVERT SIZE	BOTTOM SLAB	TOP SLAB	C & D	CULVERT SIZE	BOTTOM SLAB	TOP SLAB	C & D
12"DIA.	3'-2"x 3'-2"	-	-	21"DIA.X24"DIA.	4'-6"x 4'-6"	4'-6"x 4'-6"	-
15"DIA.	3'-2"x 3'-2"	-	-	27"DIA.X30"DIA.	4'-6"x 4'-6"	4'-6"x 4'-6"	-
18"DIA.	3'-6"x 3'-6"	-	-	36"DIA.	5'-0"x 5'-0"	5'-0"x 5'-0"	-

RECTANGULAR "GRATE" (V-5763)				
CULVERT SIZE ON WALLS A & B	WALL "A"	"C"	WALL "B"	"D"
21"DIA. & 24"DIA. B&S	4'-6"	14 1/2" (3 NO.5 BARS)	5'-0"	14 1/2" (3 NO.5 BARS)
27"DIA. & 30"DIA. B&S	4'-6"	14 1/2" (3 NO.5 BARS)	5'-0"	14 1/2" (3 NO.5 BARS)
36"DIA. B&S	5'-0"	17 1/2" (4 NO.5 BARS)	5'-0"	14 1/2" (3 NO.5 BARS)
42"DIA. B&S	5'-6"	20 1/2" (4 NO.5 BARS)	5'-0"	17 1/2" (4 NO.5 BARS)
48"DIA. B&S	6'-0"	23 1/2" (4 NO.5 BARS)	6'-0"	20 1/2" (4 NO.5 BARS)
54"DIA. B&S	6'-8"	27 1/2" (5 NO.5 BARS)	6'-8"	24 1/2" (5 NO.5 BARS)
60"DIA. B&S	7'-6"	32 1/2" (6 NO.5 BARS)	7'-6"	29 1/2" (6 NO.5 BARS)
72"DIA. B&S	8'-8"	39 1/2" (8 NO.5 BARS)	8'-8"	36 1/2" (7 NO.5 BARS)

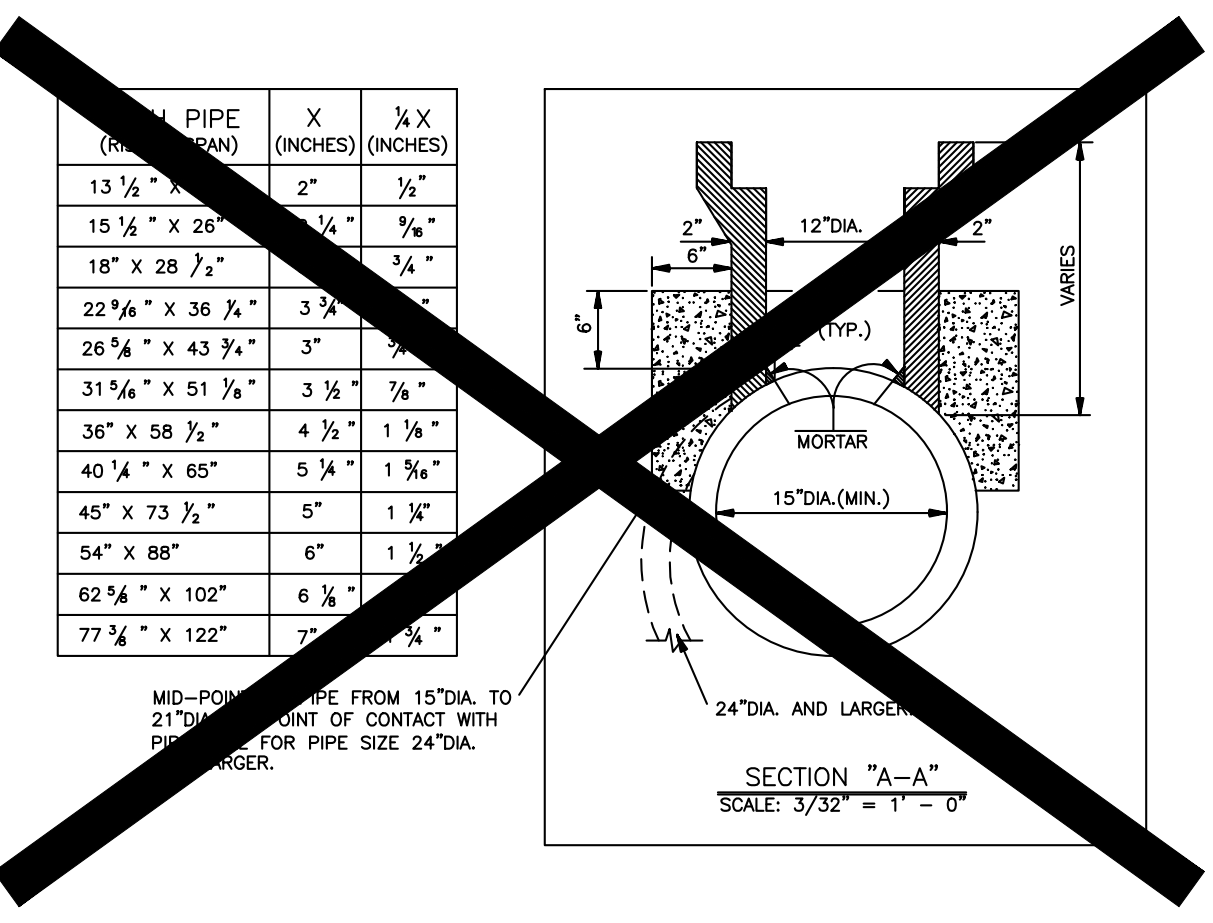
3' X 3' CONCRETE PAD



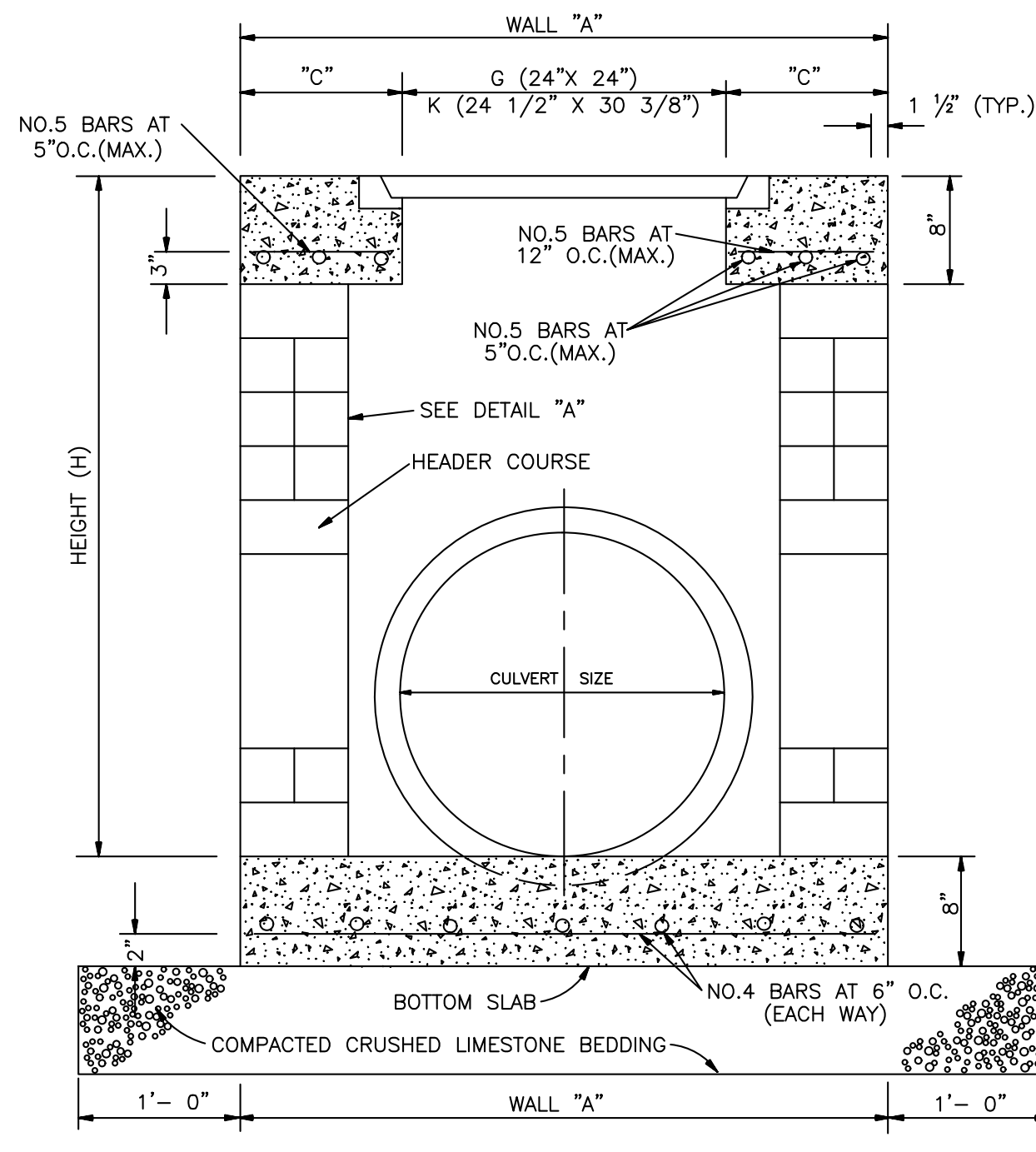
TOP VIEW
 7 NO.3 BARS SPACED AS SHOWN (EACH WAY) N.T.S.



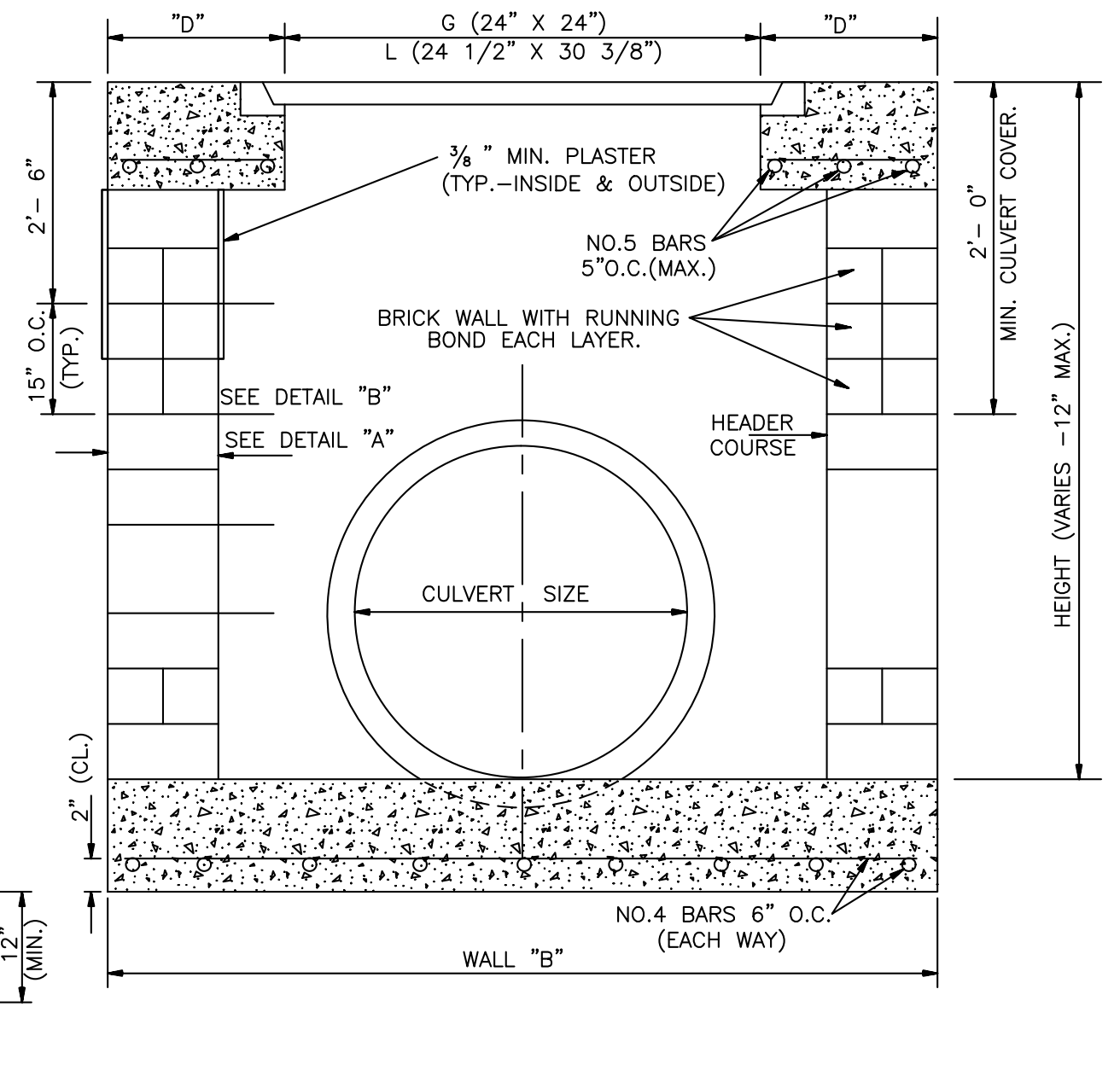
"DETAIL A"
 SCALE: 3/16" = 1' - 0"



SECTION "A-A"
 SCALE: 3/32" = 1' - 0"

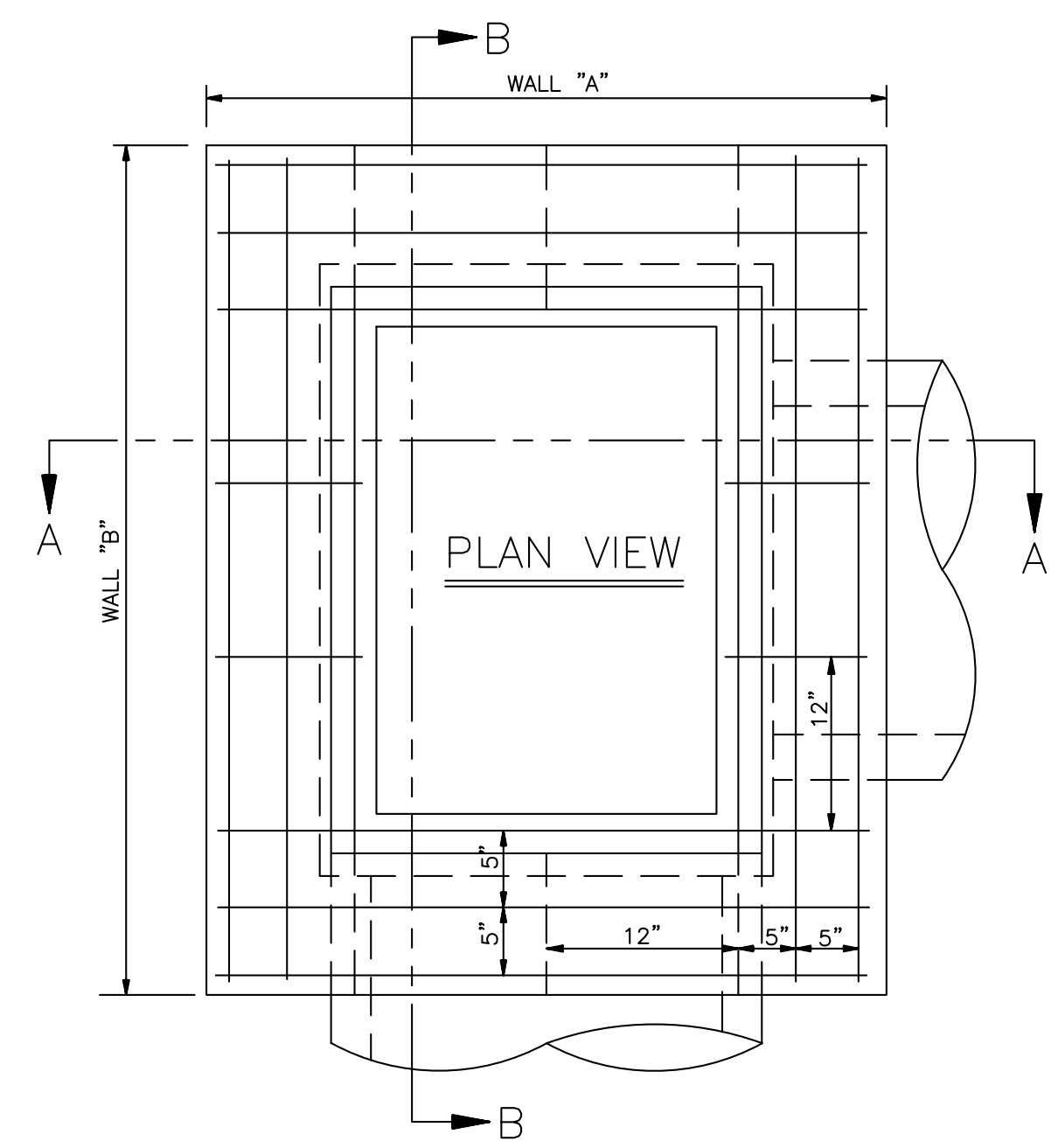


SECTION "A - A"
 SCALE: 1/8" = 1'

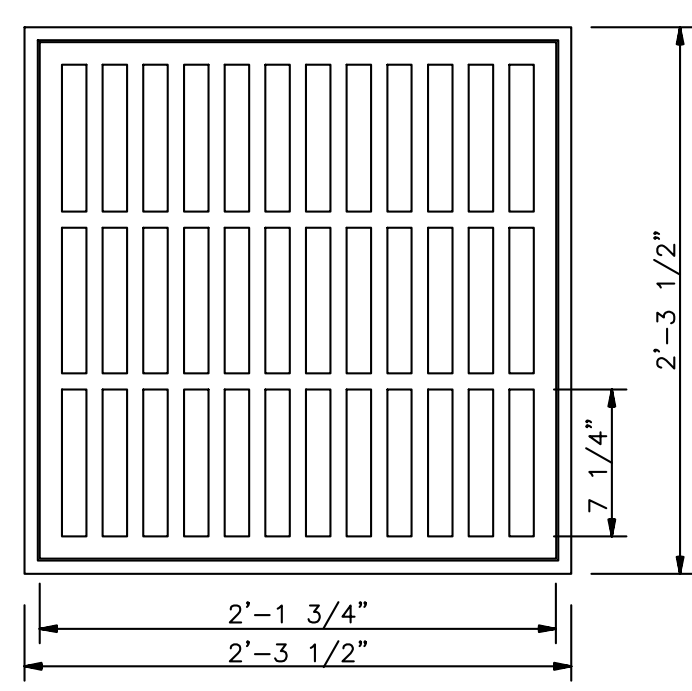


SECTION "B - B"
 SCALE: 1/8" = 1'

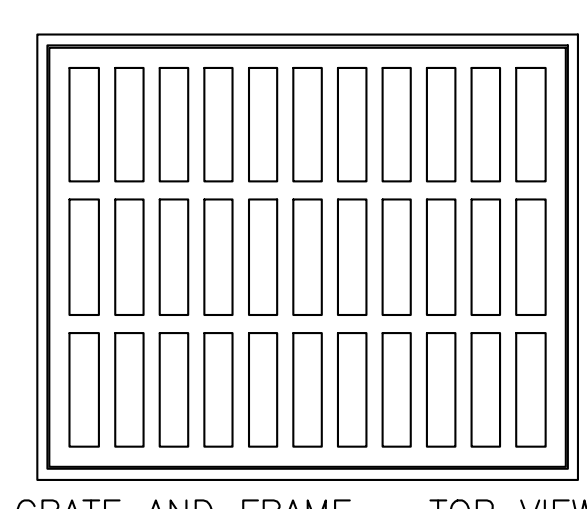
DROP INLET



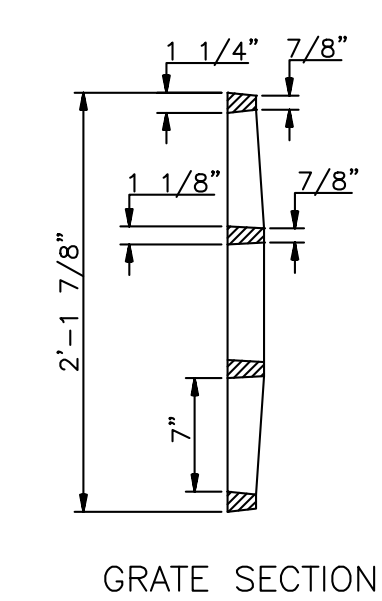
PLAN VIEW



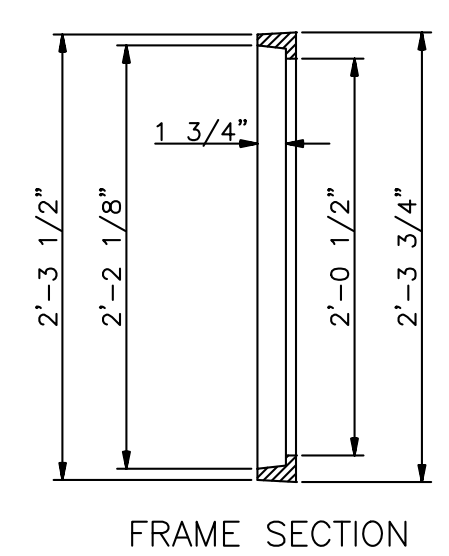
GRATE AND FRAME PLAN



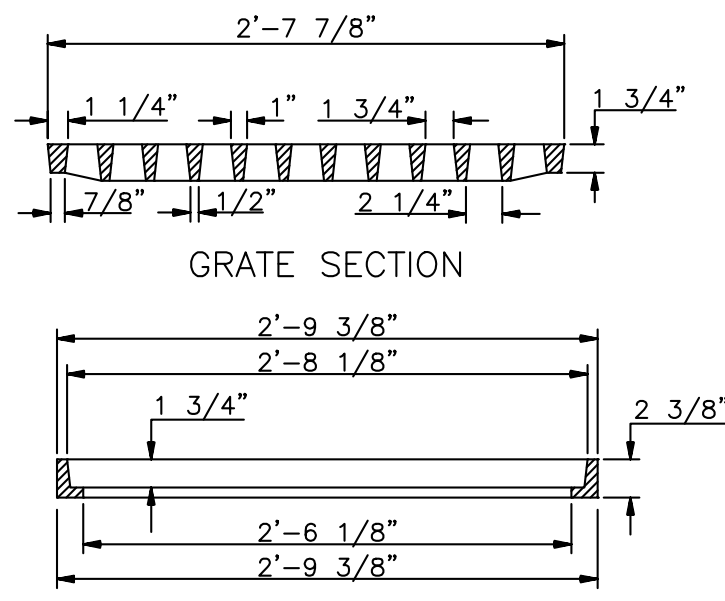
GRATE AND FRAME - TOP VIEW



GRATE SECTION



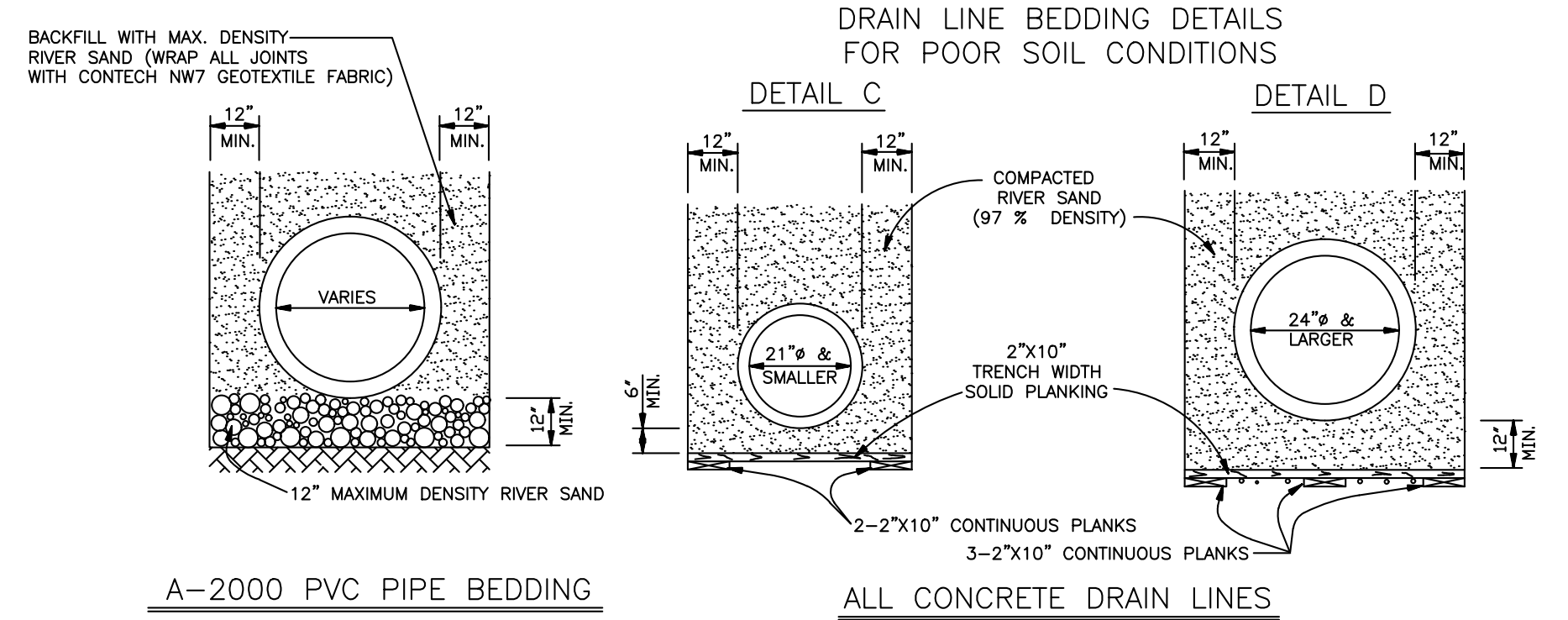
FRAME SECTION



GRATE SECTION
 FRAME SECTION

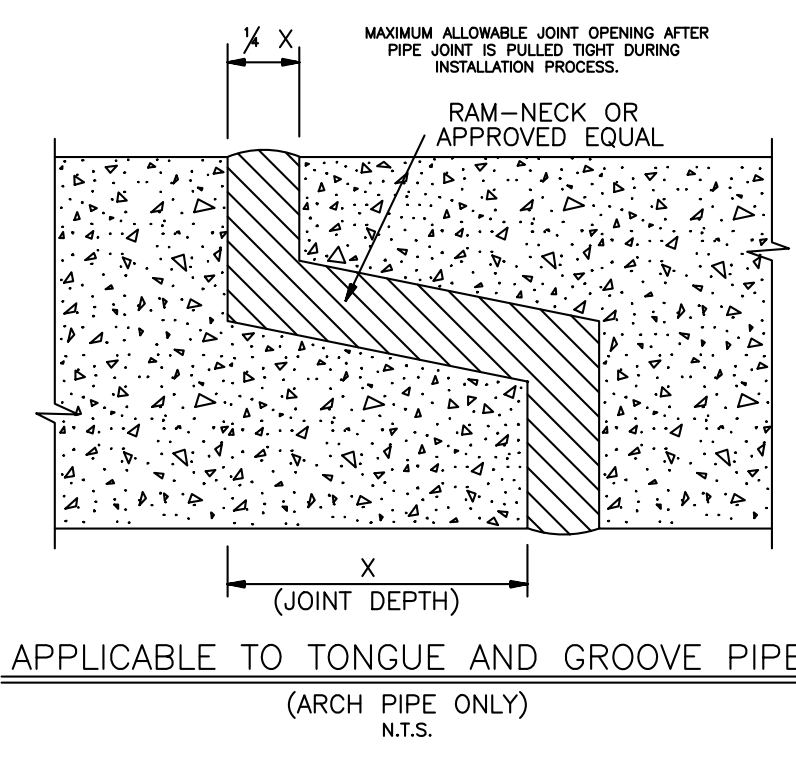
V-5763 (24" X 30")
 OPEN AREA= 400 SQ.IN.

GRATE AND FRAME SECTION
 V-5726 (24" X 24")
 OPEN AREA 321 SQ. IN.

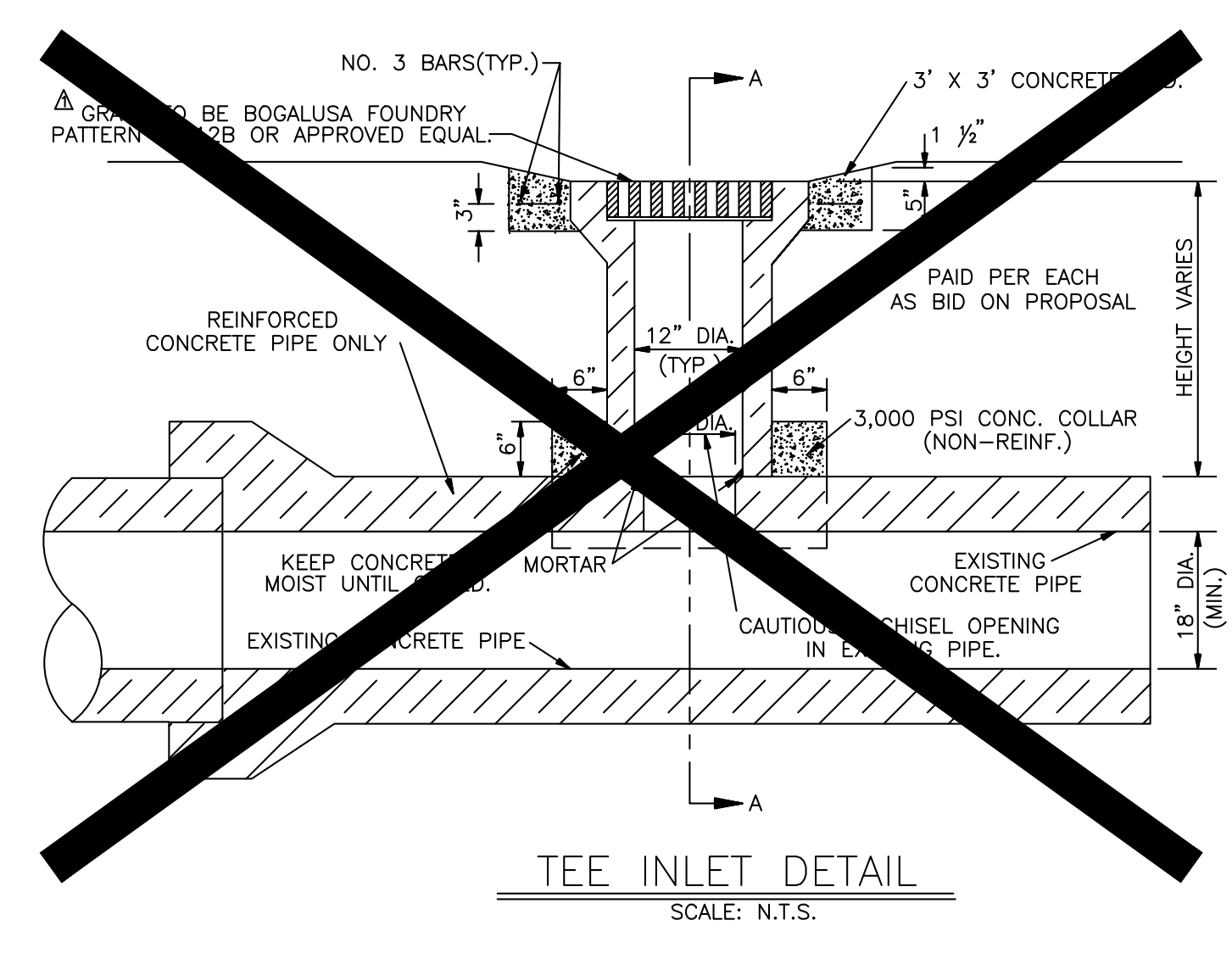


A-2000 PVC PIPE BEDDING

ALL CONCRETE DRAIN LINES



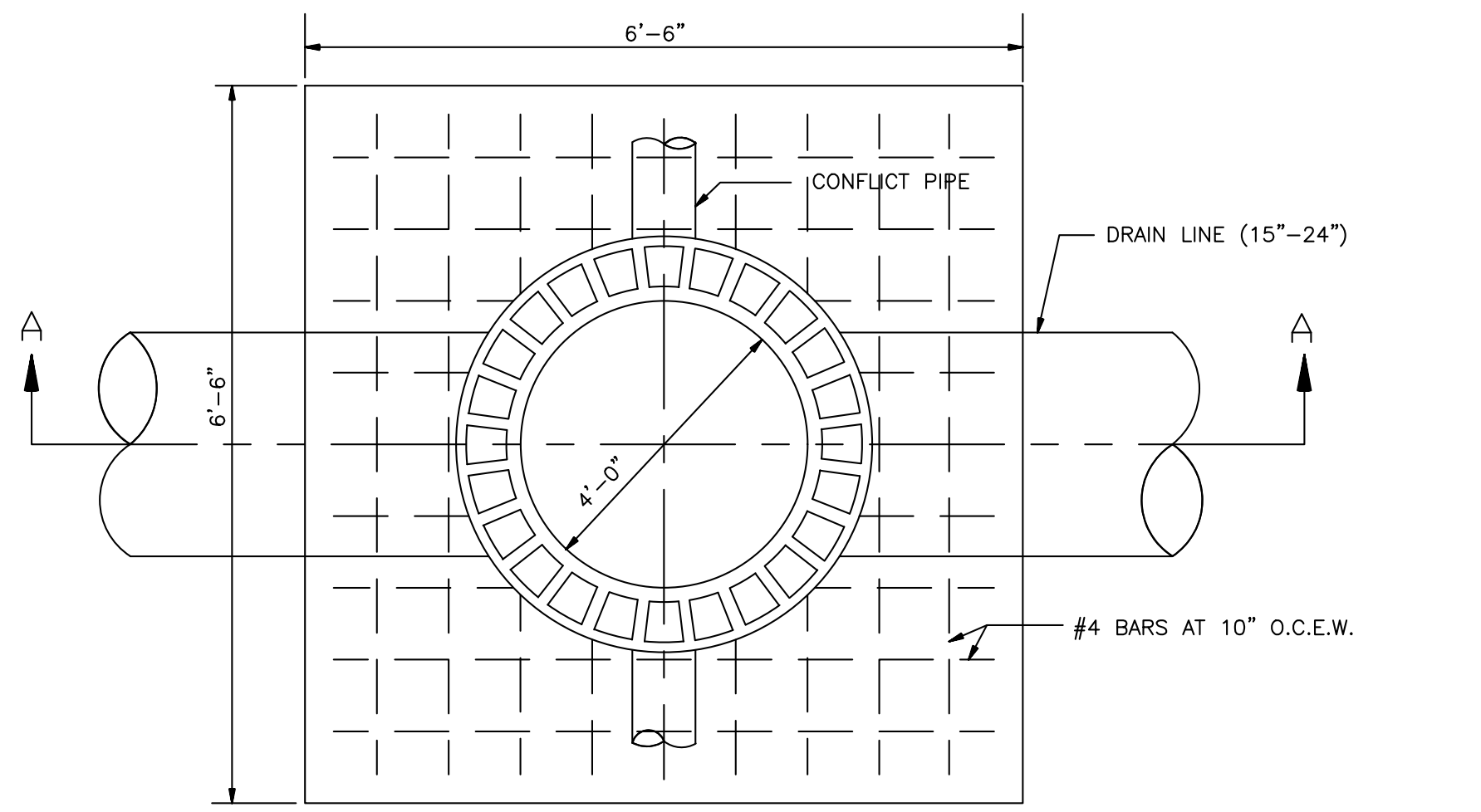
APPLICABLE TO TONGUE AND GROOVE PIPE (ARCH PIPE ONLY) N.T.S.



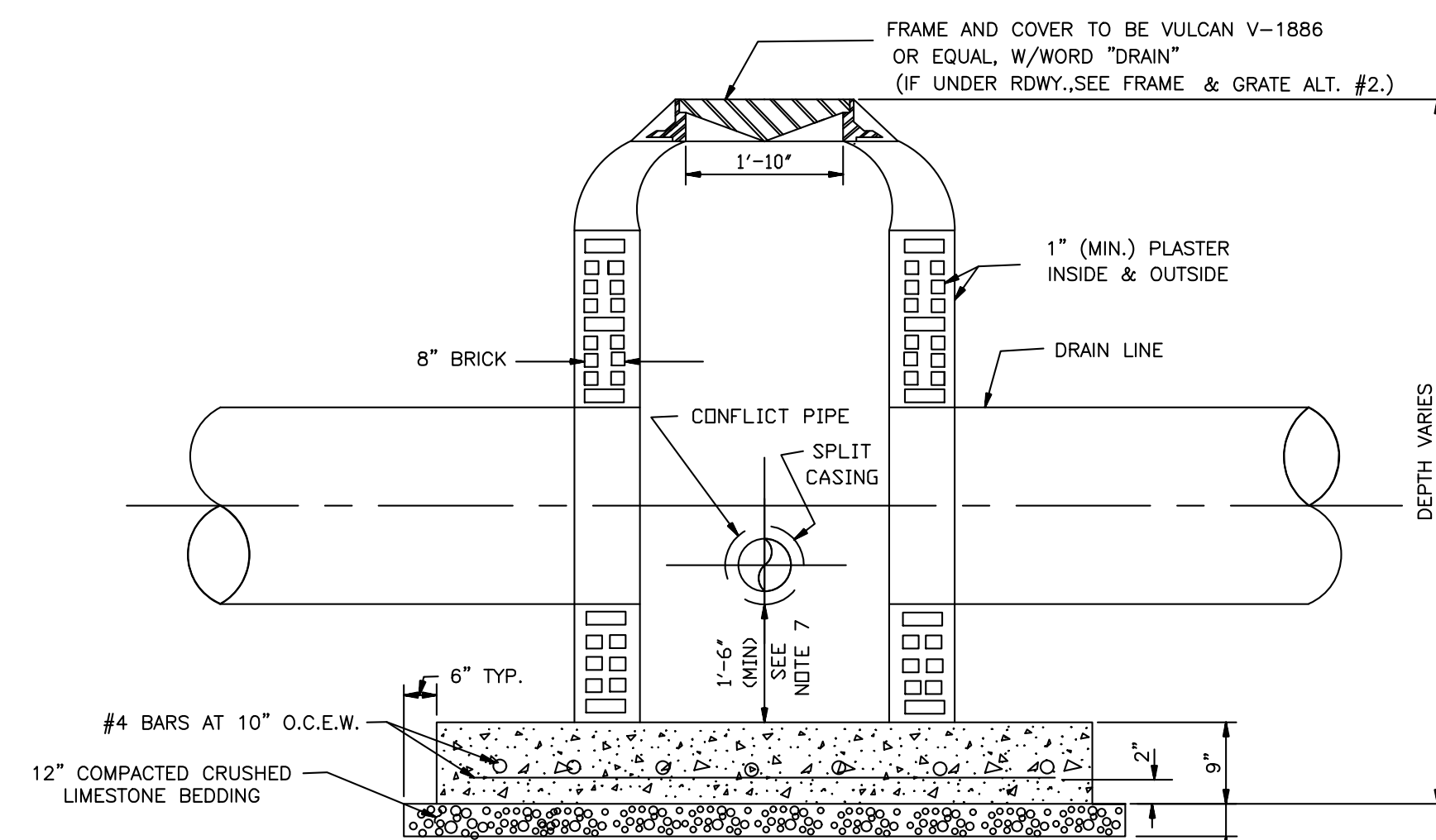
TEE INLET DETAIL
 SCALE: N.T.S.



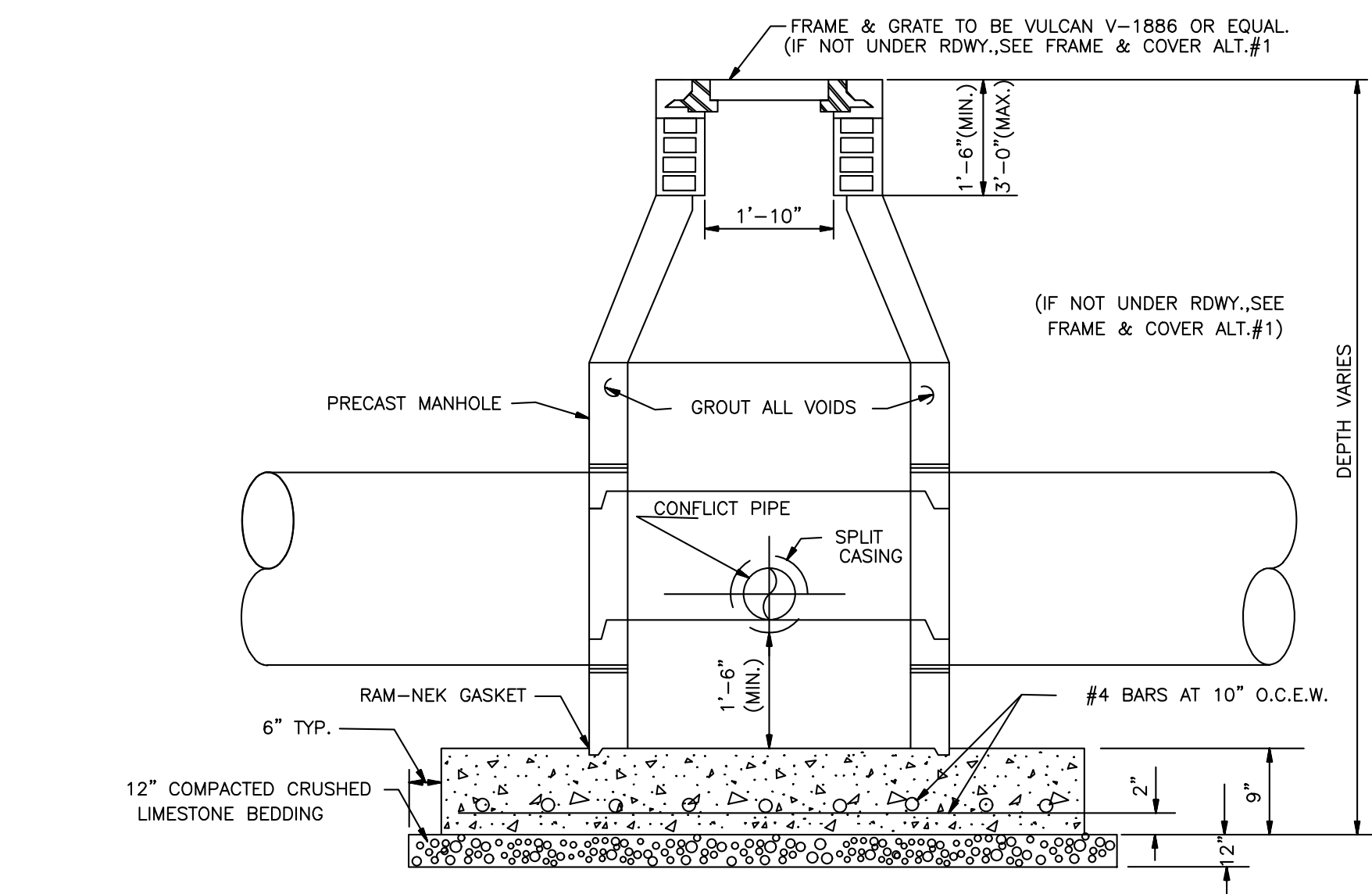
Note: "Prior to construction, the contractor will verify all utilities." If a conflict exist, notify the project engineer/architect.



PLAN
N.T.S.

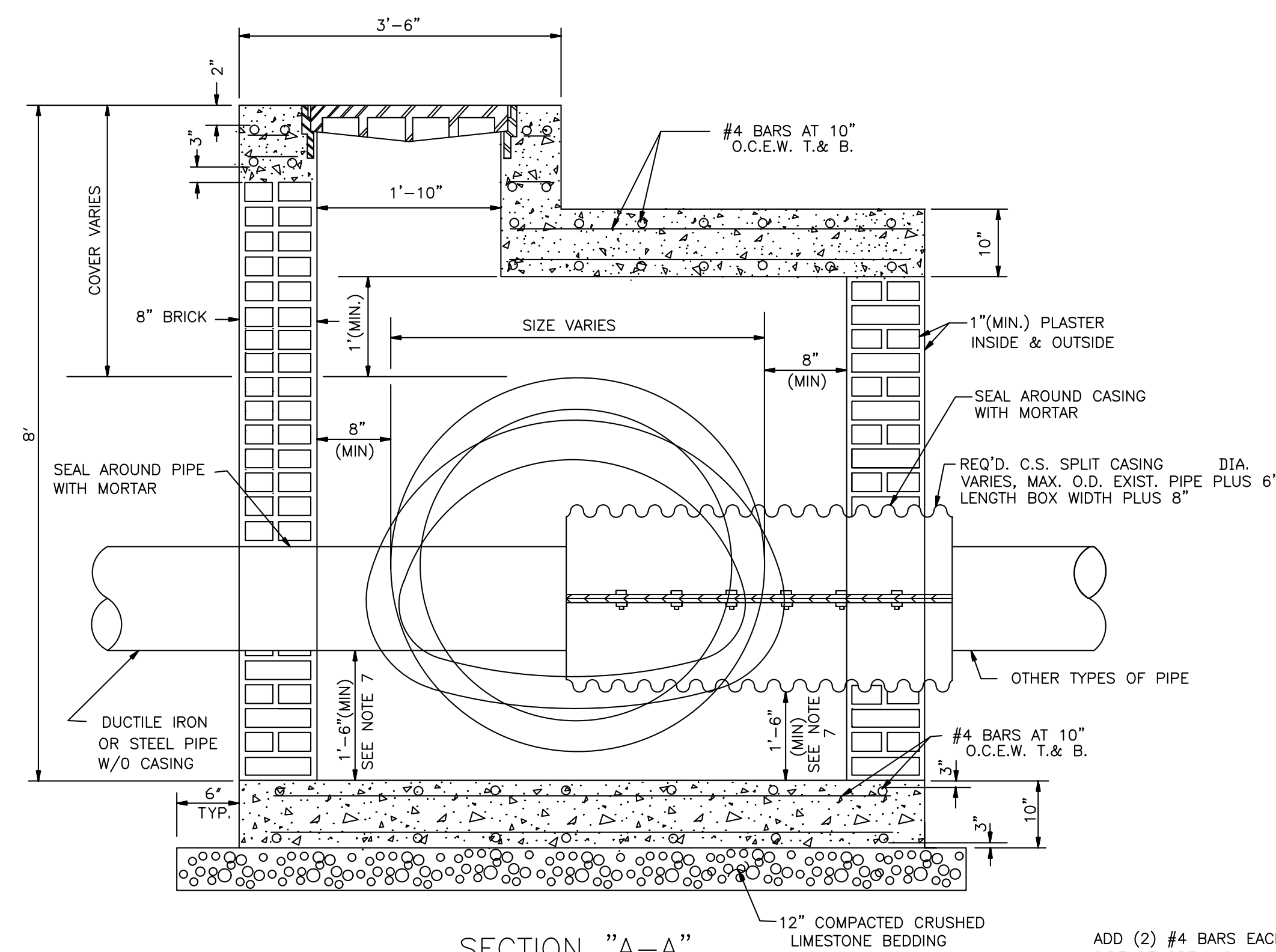


SECTION "A - A" (ALT. #1)
N.T.S.

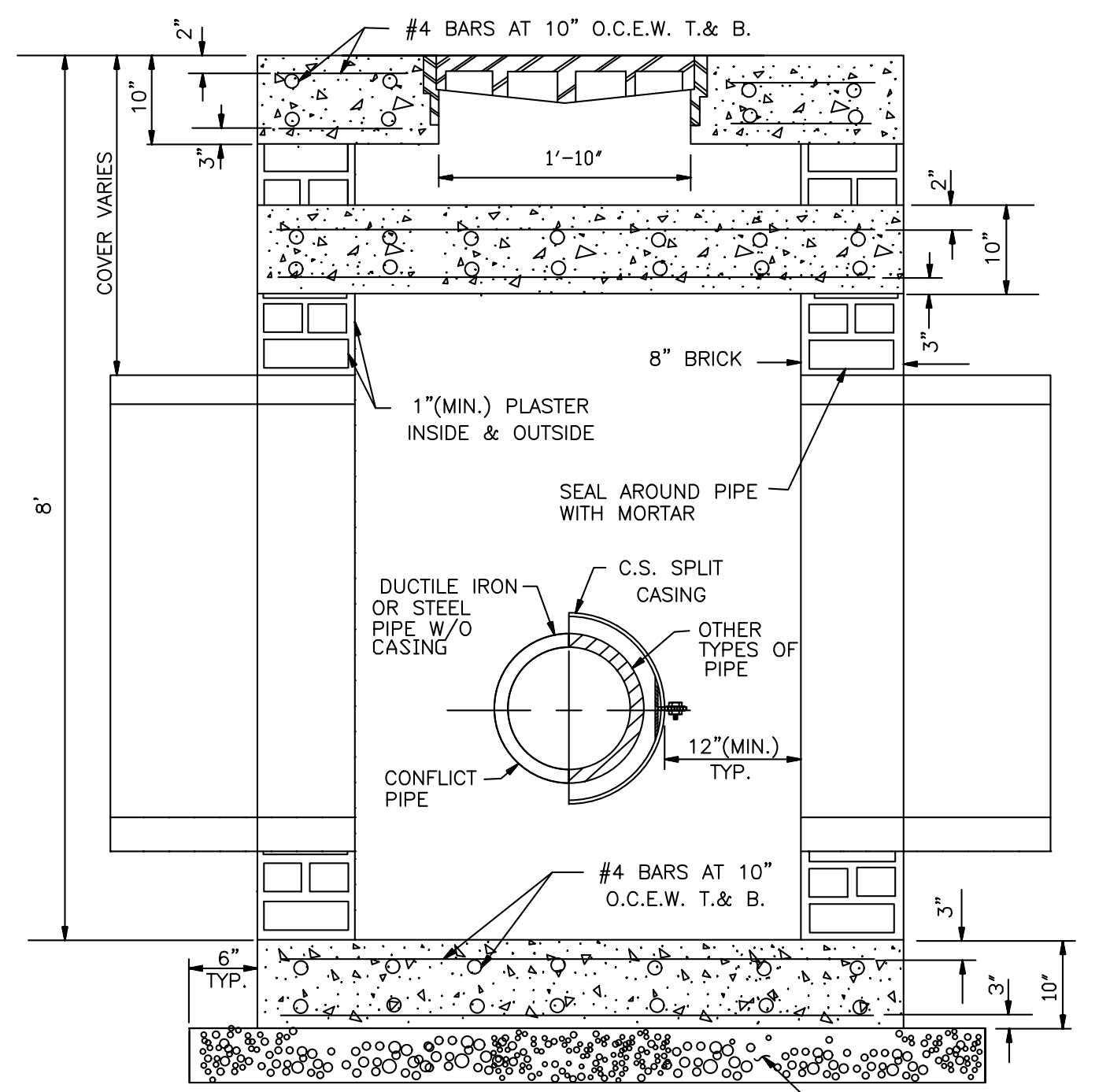


SECTION "A - A" (ALT. #2)
N.T.S.

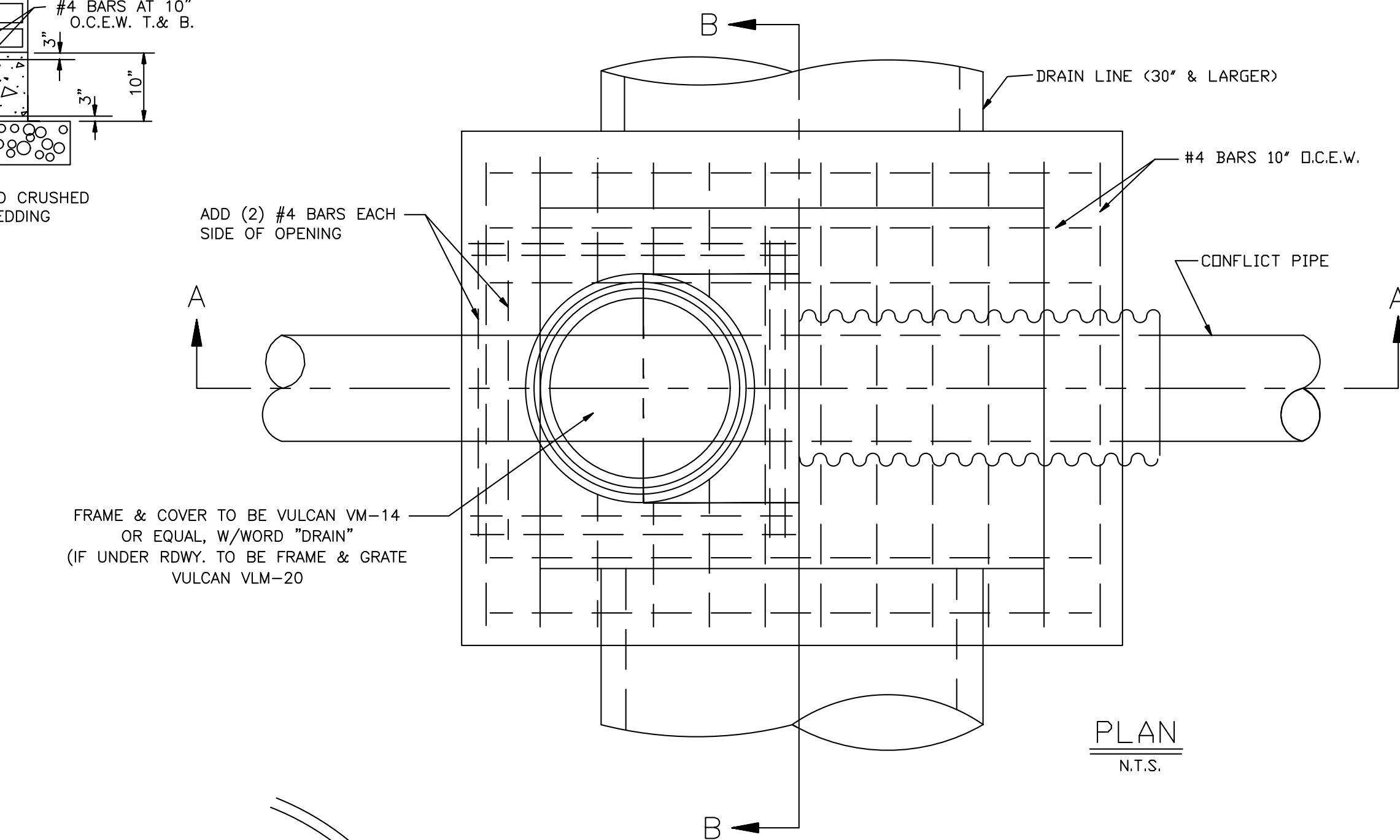
CONFLICT BOX DRAIN LINE (15"-24")
N.T.S.



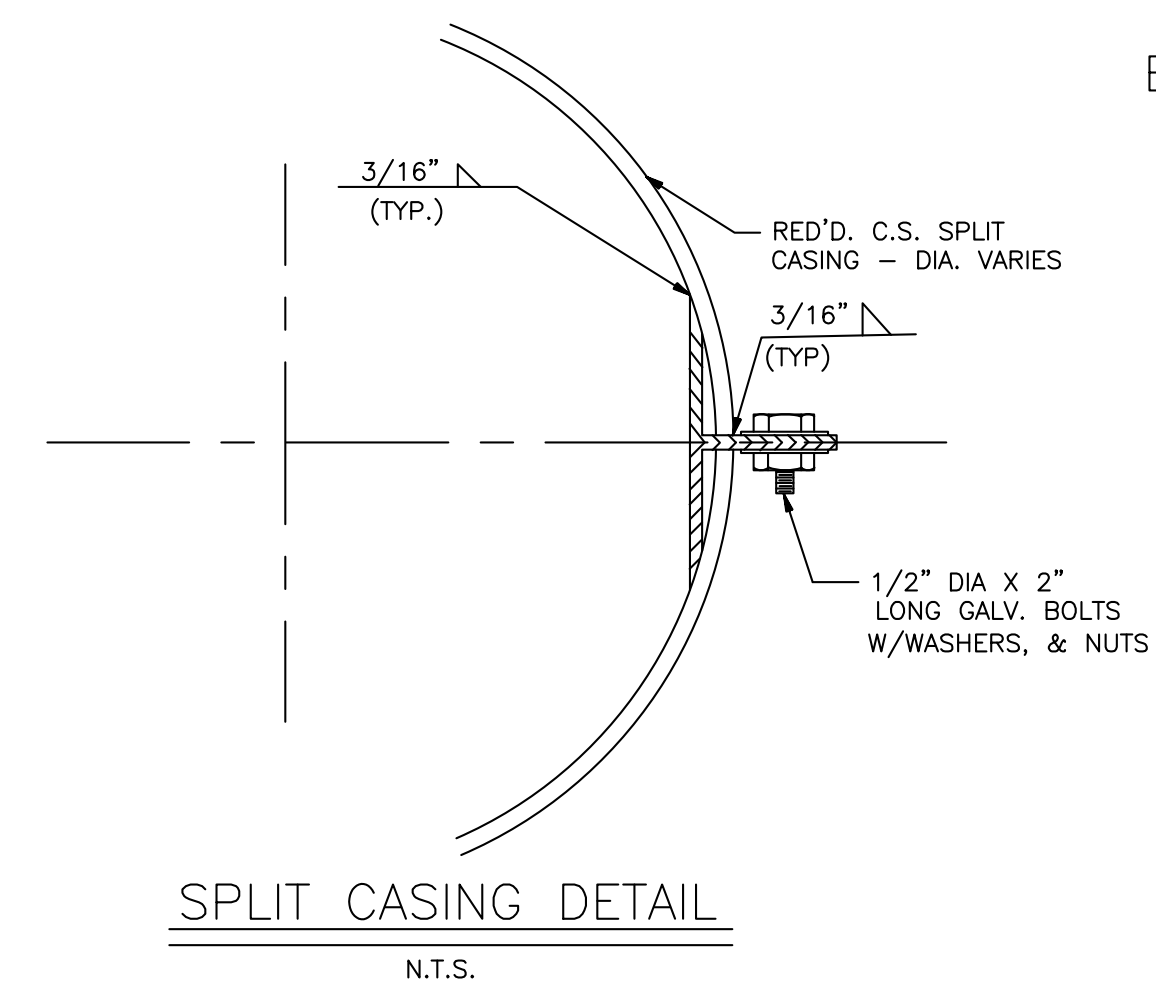
SECTION "A-A"
N.T.S.



SECTION B B
N.T.S.



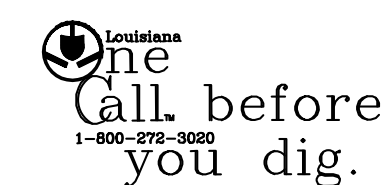
PLAN
N.T.S.



SPLIT CASING DETAIL
N.T.S.

NOTES:

1. CONCRETE STRENGTH TO BE 3000 PSI (min.) AT 28 DAYS.
2. REINFORCING STEEL SHALL CONFORM TO A.S.T.M. DESIGNATION A6150-GRADE 60.
3. ALL MASONRY TO BE LAID WITH RUNNING BOND AND HEADER COURSE, EVERY FOURTH LAYER.
4. THE MORTAR SHOULD BE TYPE "A", (C250 PSI COMPRESSION).
5. SPLIT CASING SHALL BE BITUMINOUS COATED CORRUGATED STEEL, IN COMPLIANCE WITH SEC.701-LA, DOTD STD. SPEC. (1982 EDITION). THICKNESS SHALL BE A MINIMUM 8 GAUGE UNCOATED.
6. THE BRICK SHALL CONFORM TO AASHTO DESIGNATION M91, MANHOLE BRICK GRADE MM.
7. IF BOTTOM ELEVATION OF THE CONFLICT IS ABOVE THE UPPER 3RD. OF THE INSIDE DIAMETER OF THE DRAIN LINE THE INVERT OF THE CONFLICT BOX COULD BE THE SAME AS THE INVERT OF THE DRAIN LINE SUBJECT TO THE APPROVAL OF THE PARISH.
8. ALL WATER LINES IN CONFLICT BOX SHALL BE DUCTILE IRON PIPE. OTHER PIPE MATERIAL SHALL BE INSTALLED IN SPLIT CASING.
9. THE EXTERIOR COATING OF ALL DUCTILE IRON PIPE AND FITTINGS PLACED IN THE GROUND SHALL CONSIST OF THE STANDARD BITUMINDUS COATING PLUS A POLYETHYLENE TUBE FOR ADDITIONAL PROTECTION. THE POLYETHYLENE TUBE SHALL BE EIGHT (8) MILS THICK. THE POLYETHYLENE TUBE AND ITS INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE SPECIFICATION OF ANSI-A21.5 AND AWWA-C105.



Note: "Prior to construction, the contractor will verify all utilities." If a conflict exist, notify the project engineer/architect.



ENGINEER OF RECORD
NAME: ALLISON B. FROEBA
LICENSE NO. 32492
NUMBER: 617724

DATE	DESCRIPTION	REV. NO.	ISSUE NO.
			A

CADD NO.:	FDN. DWG
DRAWING NO.:	C 0 24
SCALE:	AS NOTED
DATE:	06/17/2024



ALMEDI GARDENS SUBDIVISION
MISCELLANEOUS DRAINAGE DETAILS



ENGINEER OF RECORD
 NAME: ALISON B. FROEBA
 NUMBER: 32492

DATE	DESCRIPTION

DATE	DESCRIPTION

DATE	DESCRIPTION

DATE	DESCRIPTION

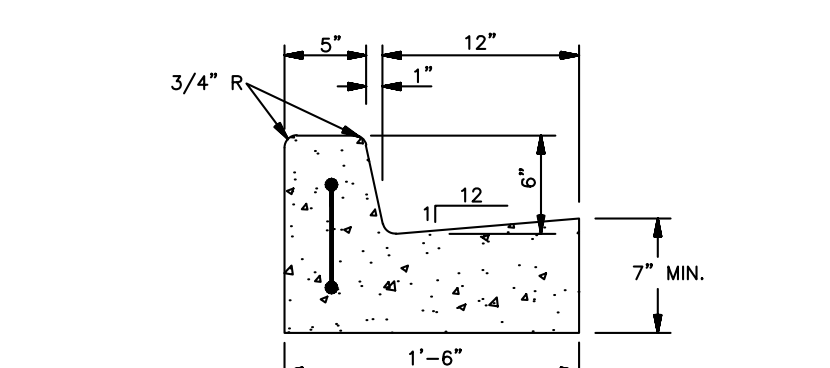
DATE	DESCRIPTION

DATE	DESCRIPTION

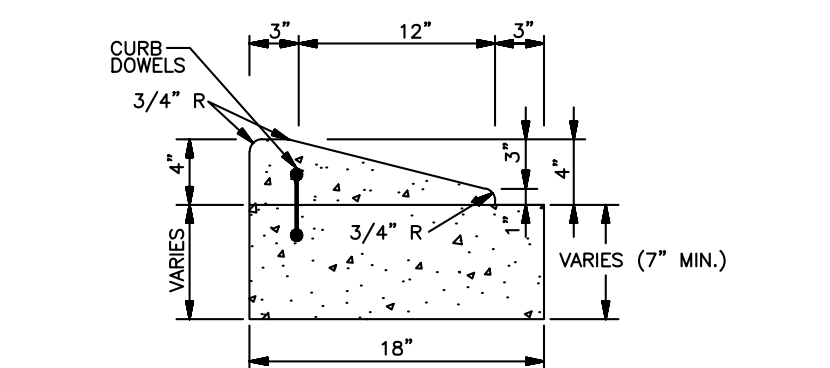
DATE	DESCRIPTION

ST. CHARLES PARISH
 LA COA: 5809

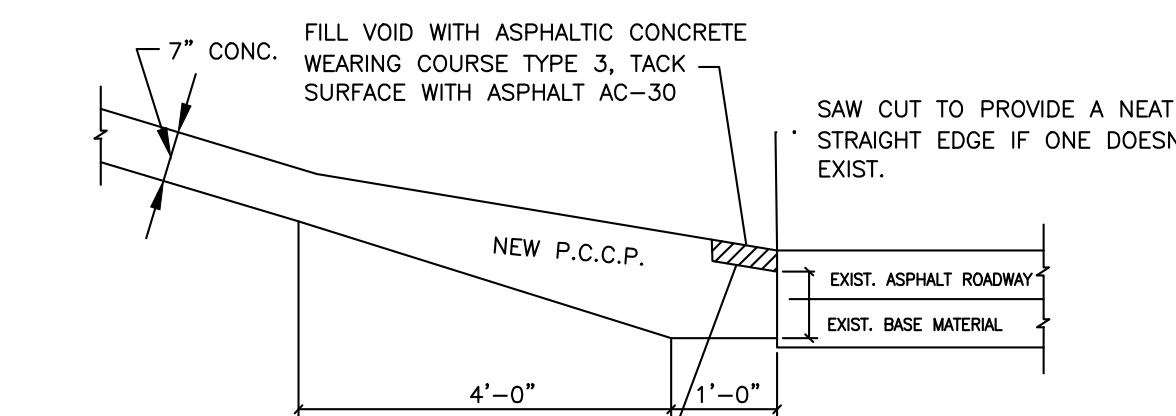
- TYPICAL NOTES FOR CONCRETE PAVEMENT JOINTS**
- PAVEMENT EDGES SHALL BE SLIGHTLY ROUNDED TO APPROXIMATELY 5 mm (188")
 - REASONABLE TOLERANCES TO ALL DIMENSIONS WILL BE ALLOWED
 - NOT USED.
 - ALL JOINTS ARE TO BE USED WHERE SHOWN ON THIS SHEET OR AS SHOWN ELSEWHERE IN THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
 - ON TYPE EJ JOINTS, ARC WELD ALTERNATE ENDS OF DOWEL BARS TO DOWEL BASKETS AND PLACE EXPANSION TUBES ON ALTERNATE ENDS OF DOWEL BARS.
 - TYPE EJ JOINTS SHALL BE SEALED WITH ELASTOMERIC JOINT SEALER. THE SEALER SHALL HAVE A NOMINAL WIDTH OF 30 mm (1-188") BEFORE COMPRESSION. JOINTS SHALL BE CLEANED PRIOR TO SEALING.
 - TYPE LJ JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEFORMED LONGITUDINAL JOINT (SECTION D-D) (TYPE LJ).
 - TYPE TCL OR CJ JOINTS MAY BE FORMED AND SEALED BY ANY OF THE METHODS LISTED BELOW. ALL JOINTS SHALL BE FORMED OR SAW CUT TO THE DEPTH SHOWN IN TABLE 1, AND SHALL BE CLEANED IMMEDIATELY PRIOR TO SEALING.
 - WHEN JOINTS ARE FORMED WITH A REMOVABLE FORMING DEVICE, THE JOINTS SHALL BE SEALED WITH PERFORMED ELASTOMERIC SEALER OR SILICONE SEALER. THE SEALANT RESERVOIR SHALL BE SAW CUT TO THE REQUIRED WIDTH AND DEPTH.
 - WHEN JOINTS ARE FORMED BY SAWING, THE INITIAL CUT SHALL BE SAWS WITH A 3 mm (1/8") MIN. WIDTH BLADE. SAWING SHALL COMMENCE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT CUTTING THE CONCRETE WITHOUT CHIPPING, SPALLING OR TEARING AND SHALL BE COMPLETED PRIOR TO DEVELOPMENT OF RANDOM CRACKING. THE SEALANT RESERVOIR MAY BE SAW CUT TO THE REQUIRED WIDTH AND DEPTH SIMULTANEOUSLY WITH THE FIRST CUT OR AT ANY TIME LATER. JOINTS SHALL BE SEALED WITH PERFORMED ELASTOMERIC SEALER OR SILICONE SEALER.
 - WHEN JOINTS ARE FORMED WITH AN APPROVED PERMANENT JOINT FORMING AND SEALING DEVICE, THE DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND NO ADDITIONAL SEALER IS REQUIRED.
 - EXCEPT AS NOTED BELOW, DOWEL BARS & TIE BARS SHALL BE HELD IN PLACE BY SUPPORTS SIMILAR TO THE ONES SHOWN, OR APPROVED EQUALS. APPROVED MECHANICAL PLACEMENT OF DOWEL BARS AND TIE BARS WILL BE ALLOWED WITH ALL PAVING METHODS. WHEN DOWEL BAR BASKETS ARE USED, SPACER WIRES THAT SPAN ACROSS THE JOINT SHALL BE CUT AND REMOVED AFTER STAKING BASKETS IN PLACE.
 - INSTALL FILTER CLOTH UNDER ALL TCJ, AND EJ JOINTS WHEN CONCRETE PAVEMENT IS PLACED ON UNSTABILIZED OR UNTREATED BASE COURSE OR SUBBASES. WHEN DOWEL BARS ARE MECHANICALLY IMPLANTED, THE FILTER CLOTH SHALL BE ANCHORED TO THE BASE COURSE WITH PINS.
 - NOT USED.
 - WHEN A MOUNTABLE TYPE CURB IS POURED MONOLITHIC WITH THE CONCRETE PAVEMENT AND AN APPROVED MECHANICAL DEVICE IS USED FOR LOAD TRANSFER PLACEMENT, THE FIRST LOAD TRANSFER DEVICE SHALL BE INSTALLED 450 mm (18") FROM THE PAVEMENT EDGE.
 - TRANSVERSE EXPANSION JOINTS SHALL NOT BE USED FOR CONSTRUCTION JOINTS.
 - WHEN PLASTIC OR EPOXY COATED DOWEL BARS ARE USED, THE NEXT SMALLER SIZE OF DOWEL BARS MAY BE USED AT UNCHANGED SPACING. (IN ENGLISH UNITS: THE DOWEL BAR SIZE MAY BE REDUCED BY 1/8").



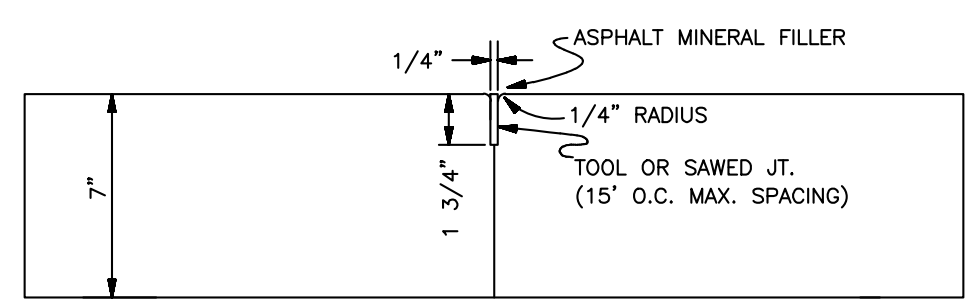
6" BARRIER TYPE CONCRETE CURB & GUTTER
 (CONCRETE AND ASPHALT PAVEMENT ROADWAY)



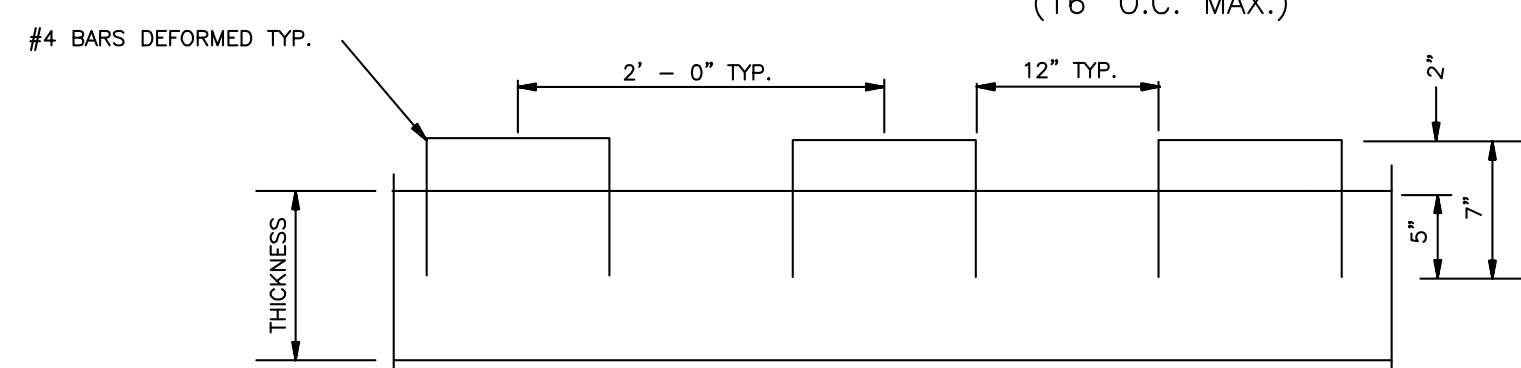
4" ROLLOVER TYPE CONCRETE CURB & GUTTER
 (CONCRETE AND ASPHALT PAVEMENT ROADWAY)



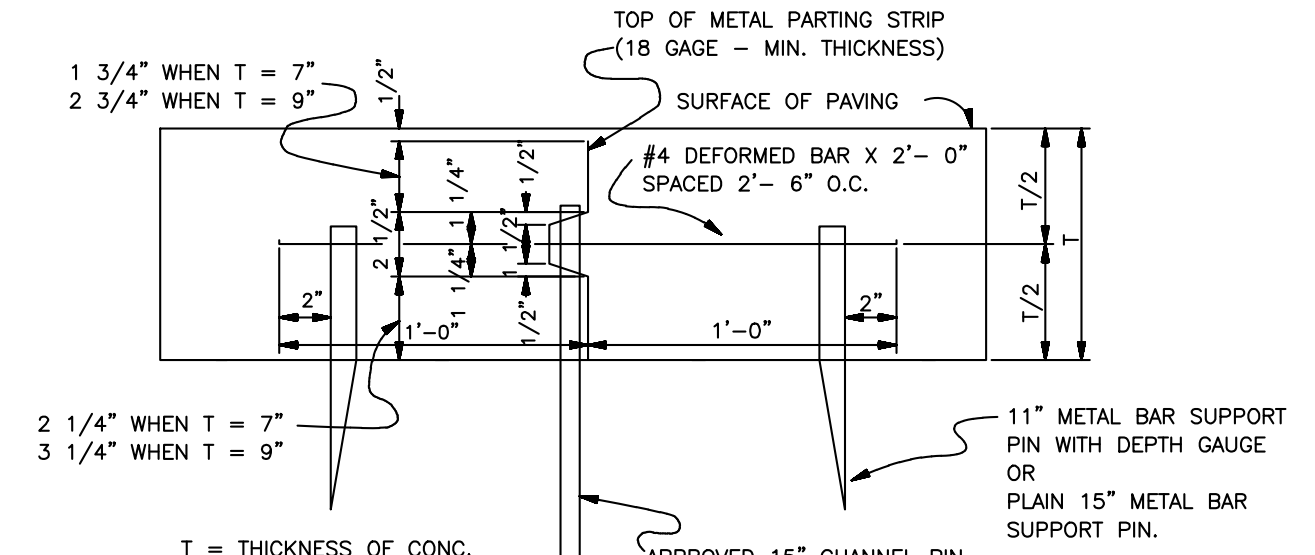
SECTION OF BUTT JOINT (TYPE BJ)



TRANSVERSE CONTRACTION JOINT (DUMMY JT.)
 (APPLICABLE TO 7" P.C.C. PAVT. ONLY)
 (16' O.C. MAX.)



CURB DOWELS

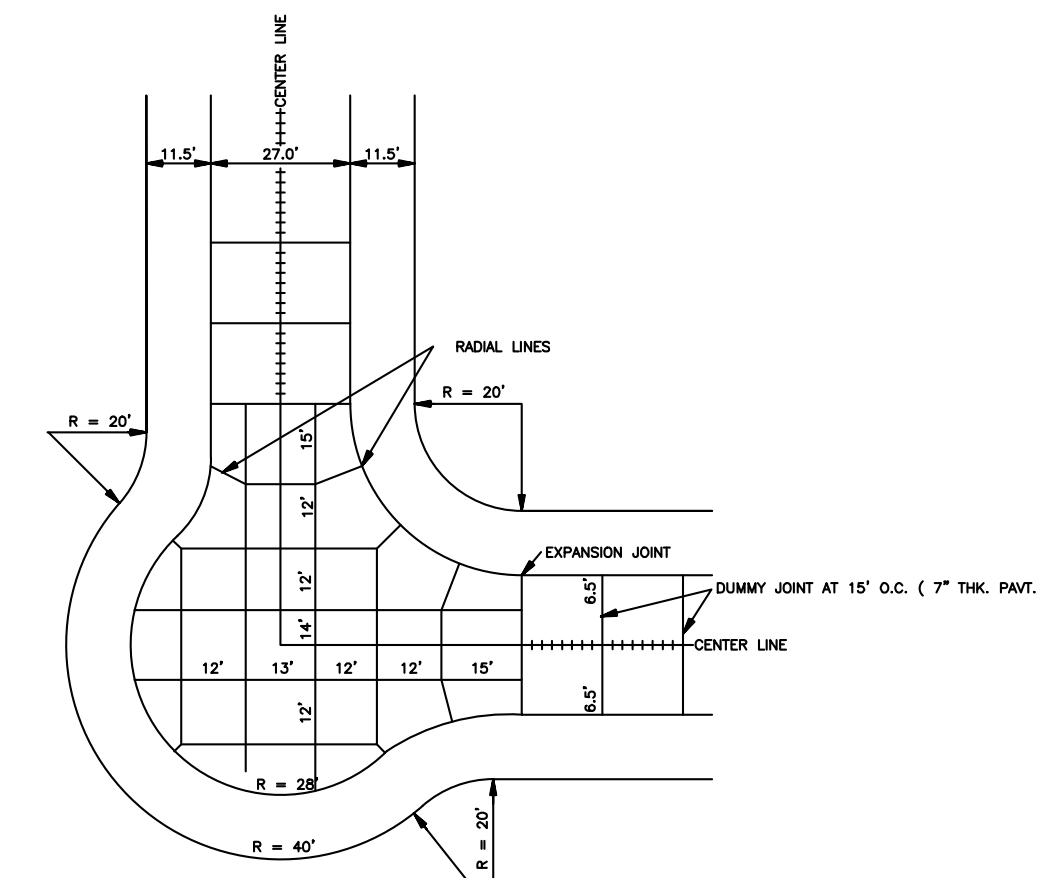


DEFORMED LONGITUDINAL JOINT

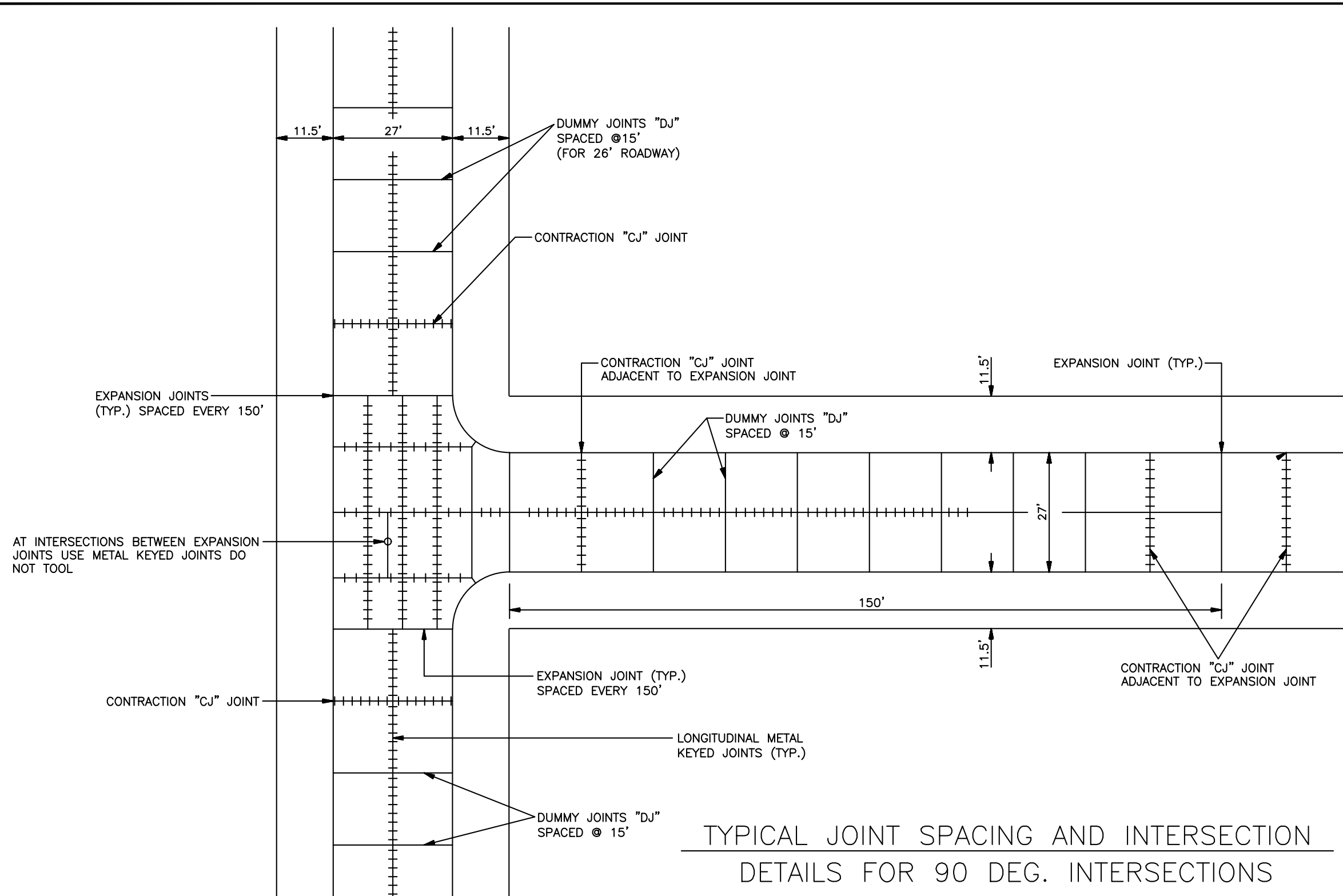
TABLE 1 (ENGLISH UNITS)
 (ALL DIMENSIONS IN INCHES)

PAVEMENT THICKNESS	SMOOTH DOWEL BARS			DEF. TIE BARS			DEPTH OF JOINT			KEYWAY	
	SIZE	LENGTH	SPACING	SIZE	LENGTH	SPACING	TOL. ±	CL ±	LJ ±	A ±	B ±
7 OR LESS	1/8	12	24	3/8	24	36	2	2-1/2	2-1/2	3/4	3/4
8	1-1/8	18	12	5/8	30	36	2-1/2	3	2-1/2	1-1/4	1-1/4
9	1-1/4	18	12	5/8	30	36	2-1/2	3-1/2	2-1/2	1-1/4	1-1/4
10	1-3/8	18	12	5/8	30	36	3	4	2-1/2	1-1/4	1-1/4
11	1-1/2	18	12	5/8	30	36	3	4	2-1/2	1-1/4	1-1/4
12	1-5/8	18	12	5/8	30	30	3-1/2	4-1/2	3	1-1/2	1-1/2
13	1-3/4	18	12	5/8	30	30	3-1/2	4-1/2	3	1-1/2	1-1/2
14	1-7/8	18	12	5/8	30	24	4	5	3	1-1/2	1-1/2

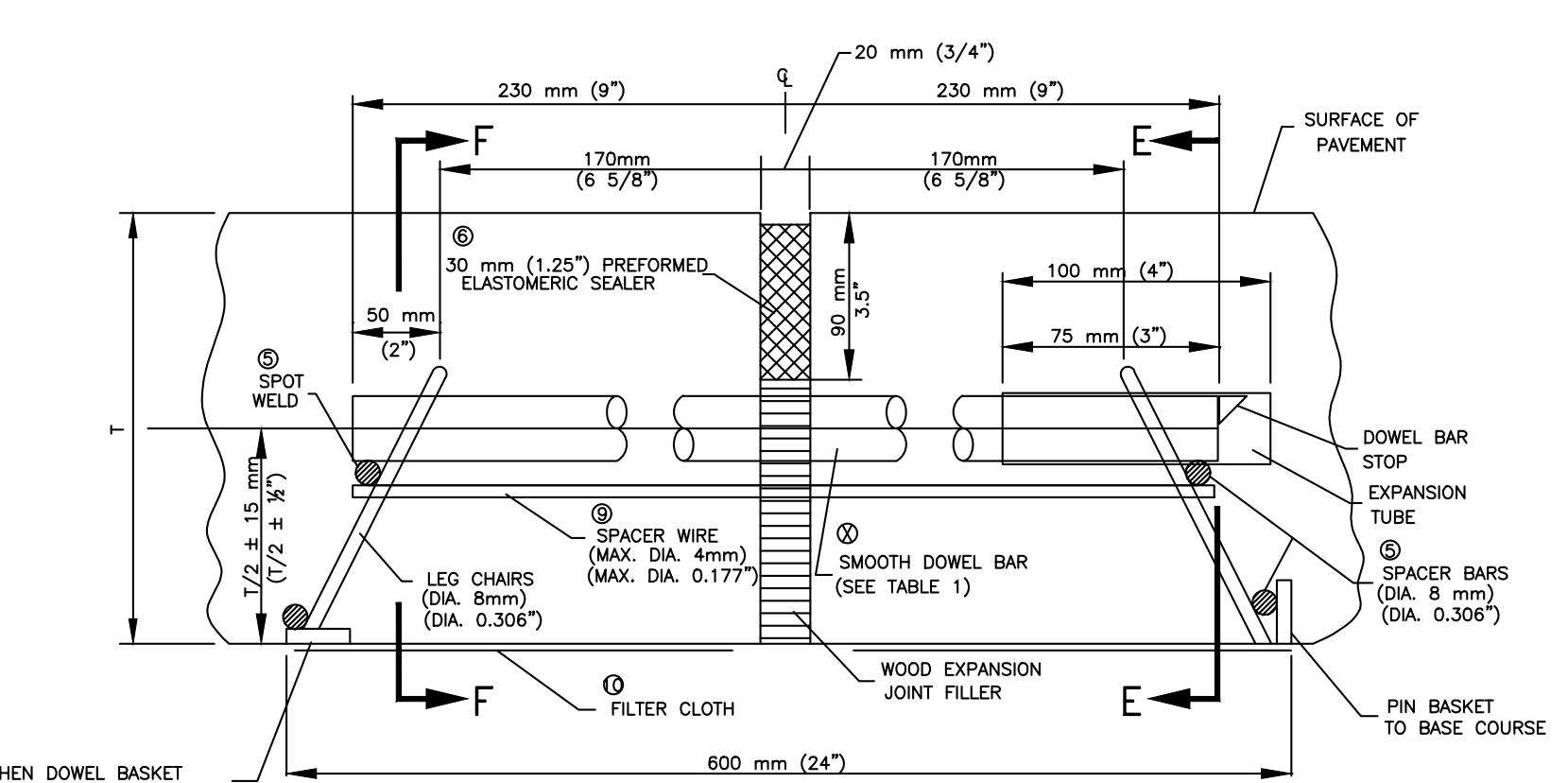
• FOR CONC. SHOULDERS, DOWEL BAR SPACING SHALL BE 24" OR LESS
 • FOR CONC. SHOULDERS, "T" IS THICKNESS AT THE PAVEMENT EDGE.



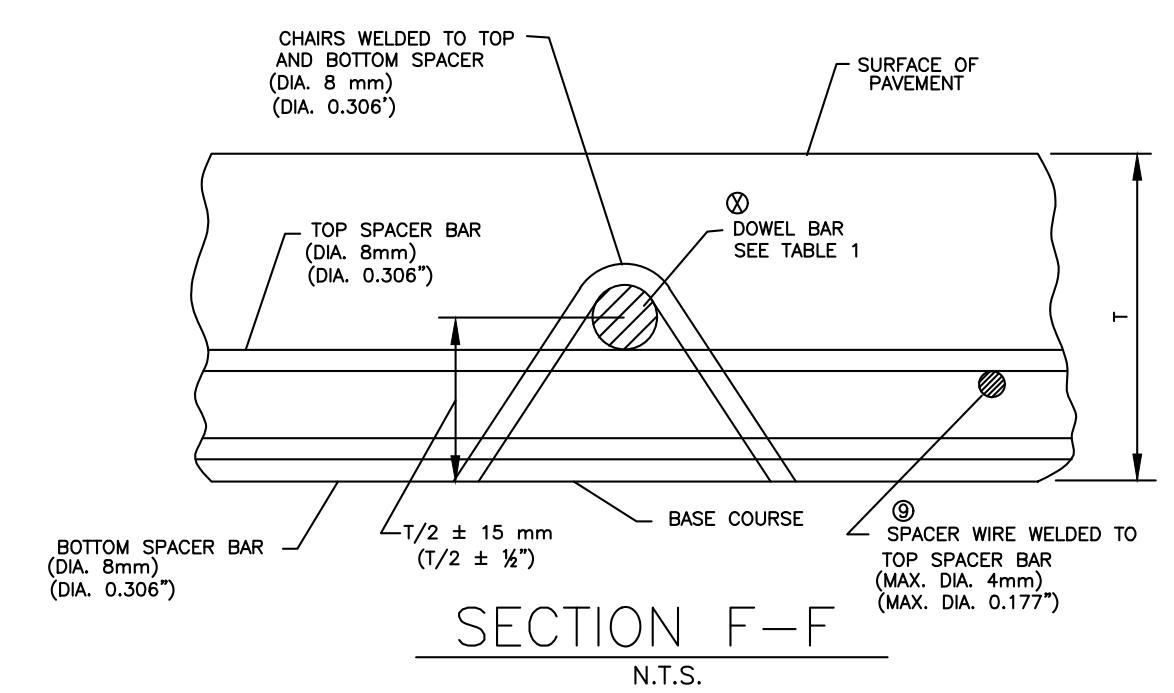
SPECIAL JOINTING DETAILS PARTIAL CUL DE SAC



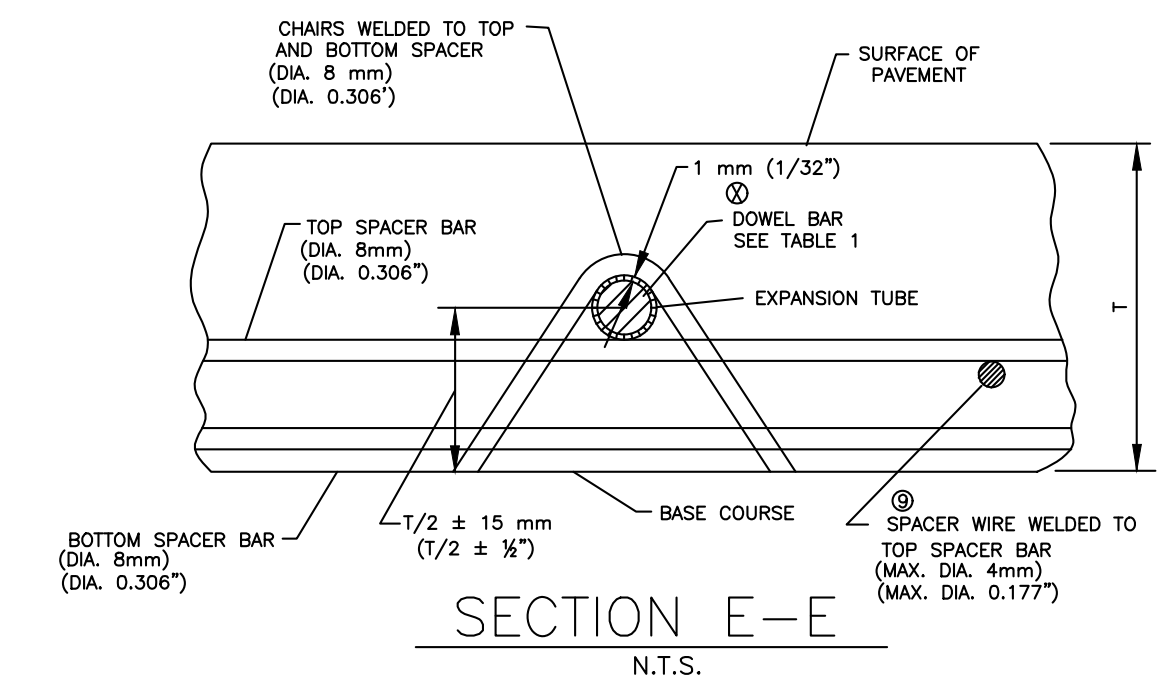
TYPICAL JOINT SPACING AND INTERSECTION DETAILS FOR 90 DEG. INTERSECTIONS
 (SHOWN FOR 26' STREET IN 50' R/W)



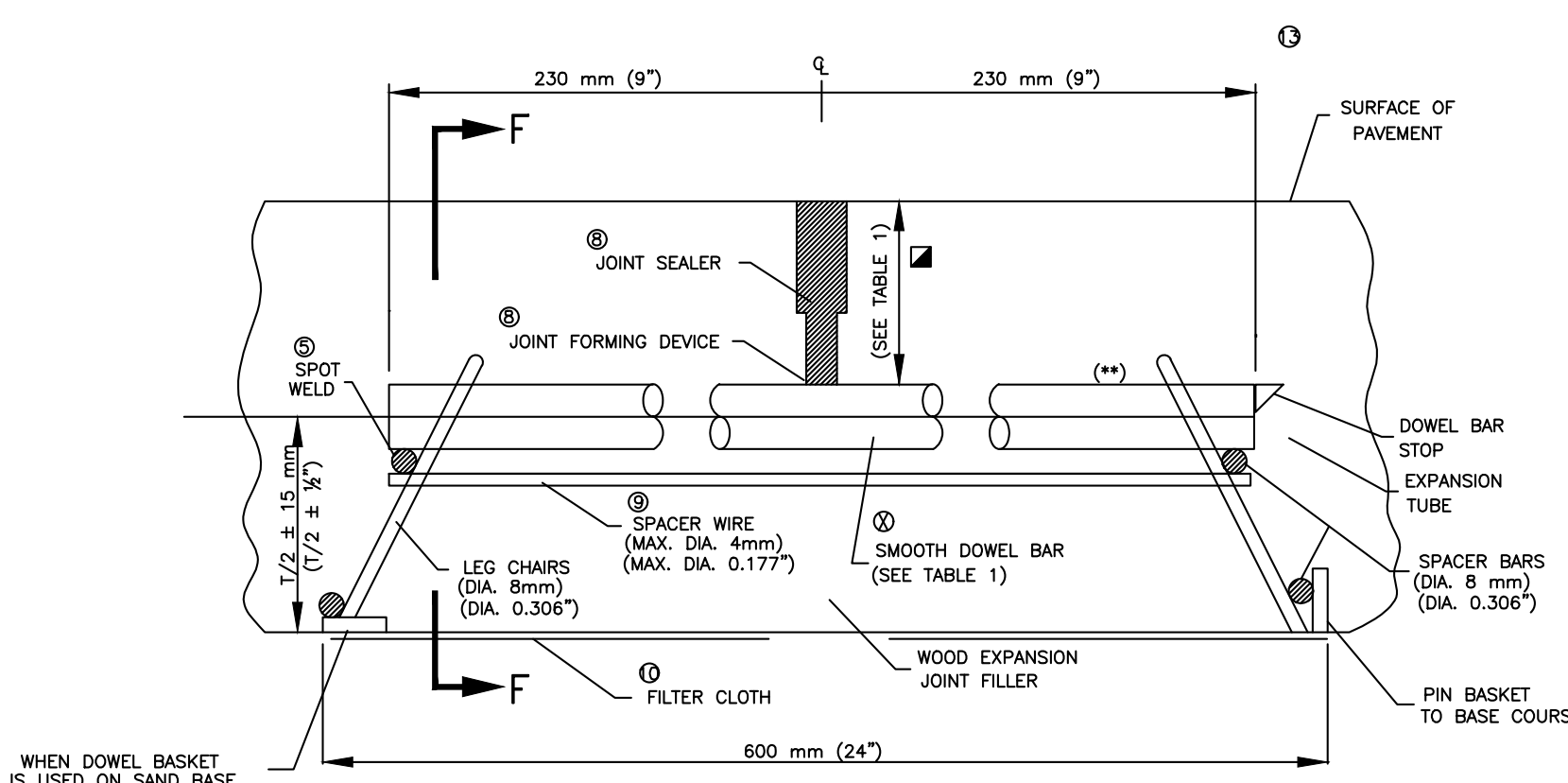
SECTION A-A TYPE EJ
 (TRANSVERSE EXPANSION JOINT)
 N.T.S.



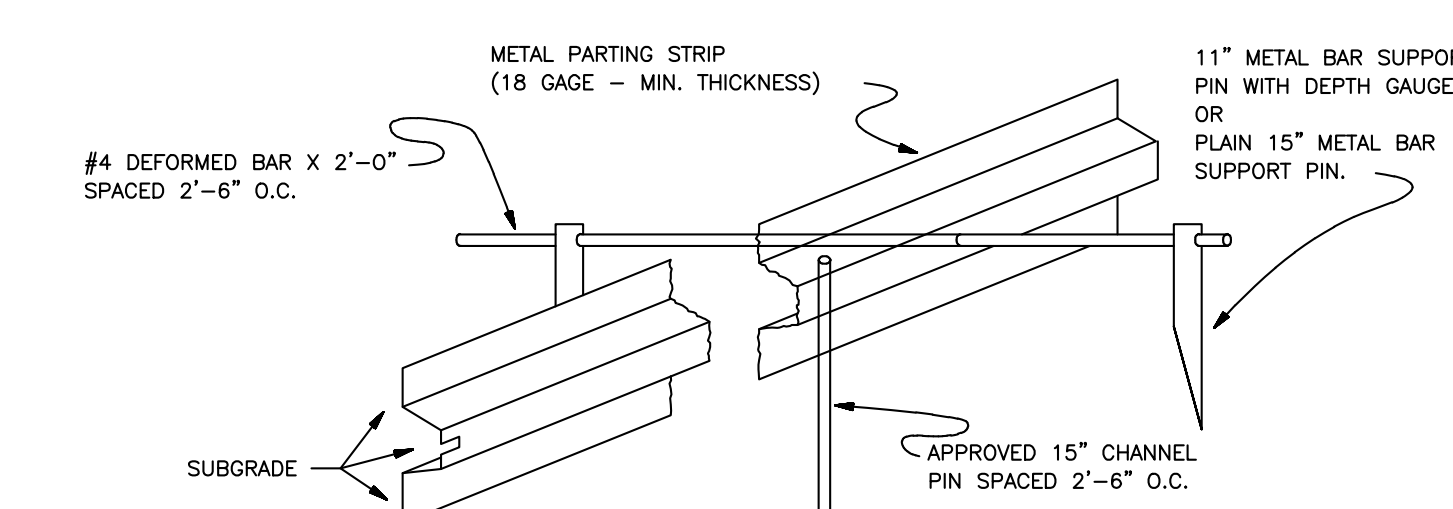
SECTION F-F
 N.T.S.



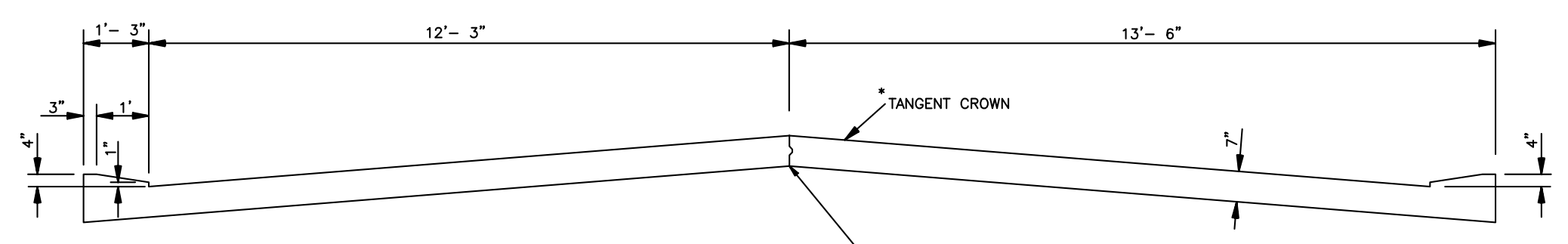
SECTION E-E
 N.T.S.



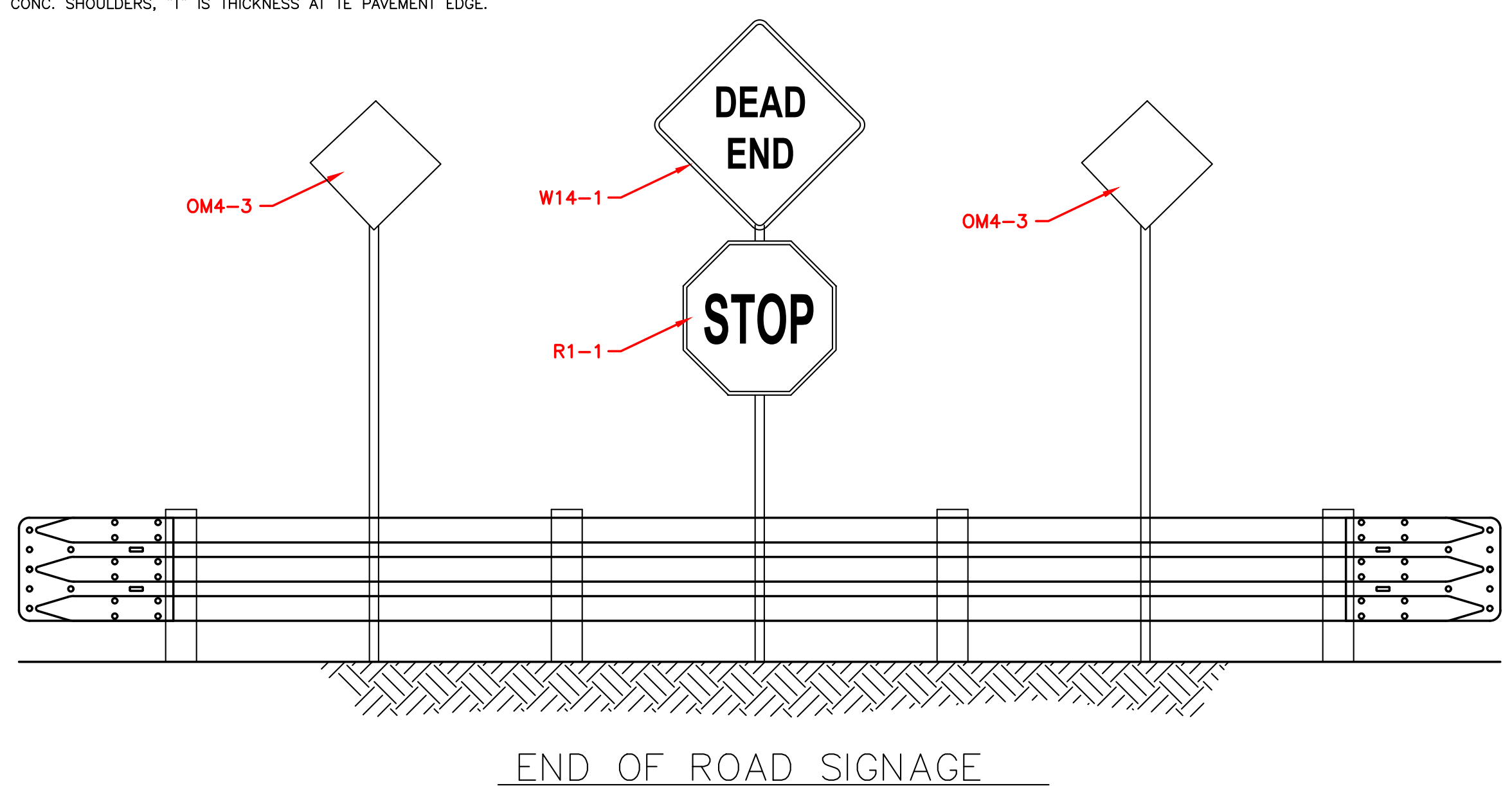
SECTION B-B TYPE TCJ OF CJ
 (TRANSVERSE CONTRACTION JOINT OF TRANSVERSE CONSTRUCTION JOINT)
 N.T.S.



OBLIQUE VIEW METAL PARTING STRIP FOR DEFORMED LONGITUDINAL JOINT



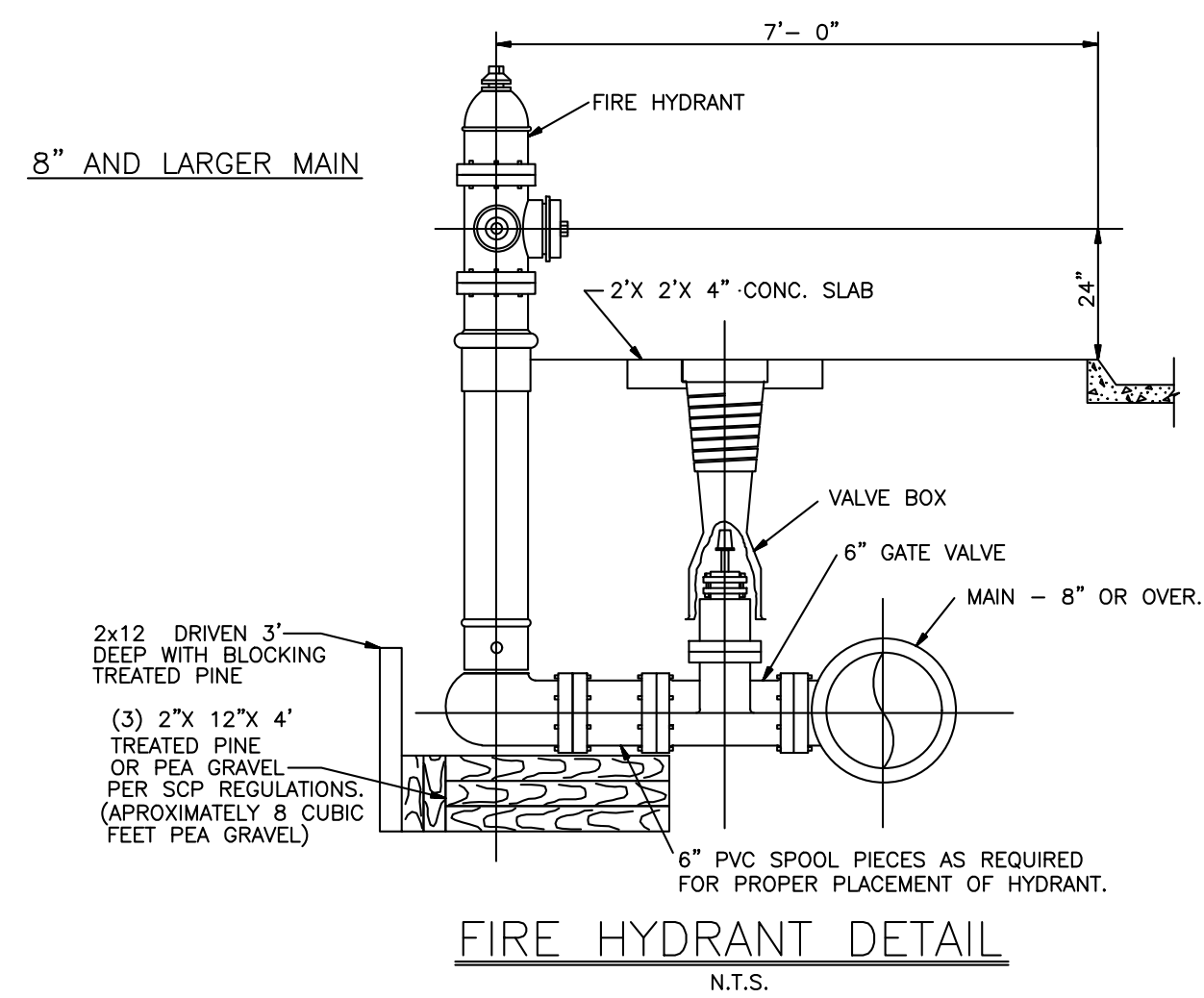
TYPICAL SECTION OF 27' ROADWAY



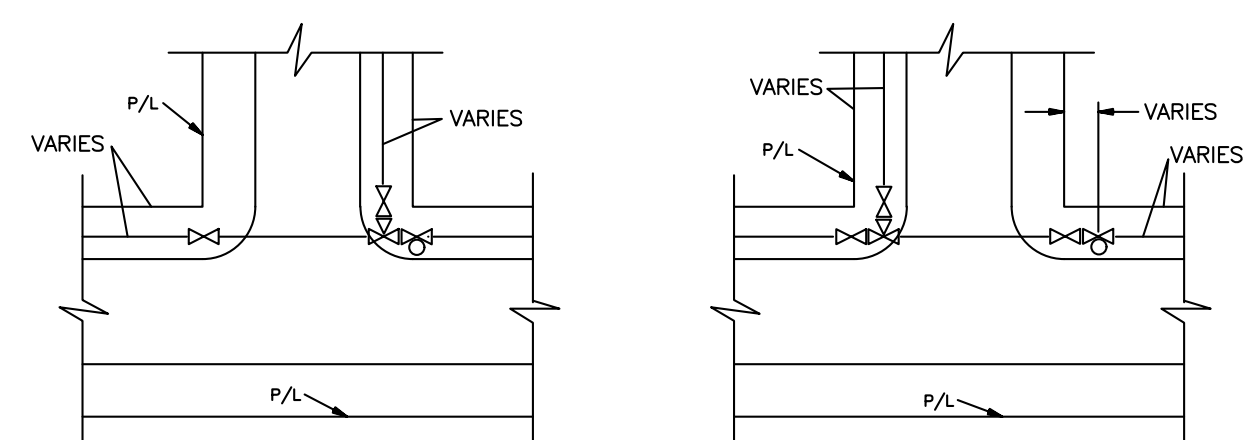
END OF ROAD SIGNAGE



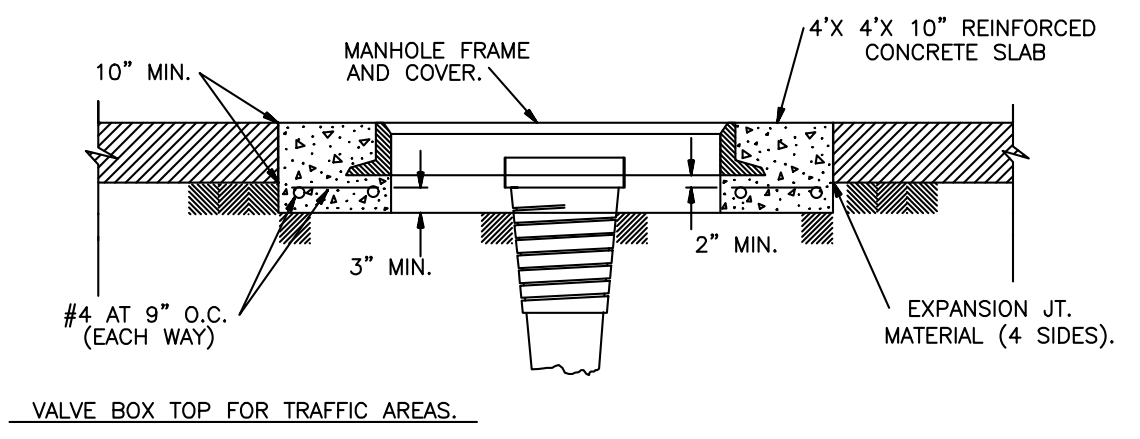
Note: "Prior to construction, the contractor will verify all utilities." If a conflict exist, notify the project engineer/architect.



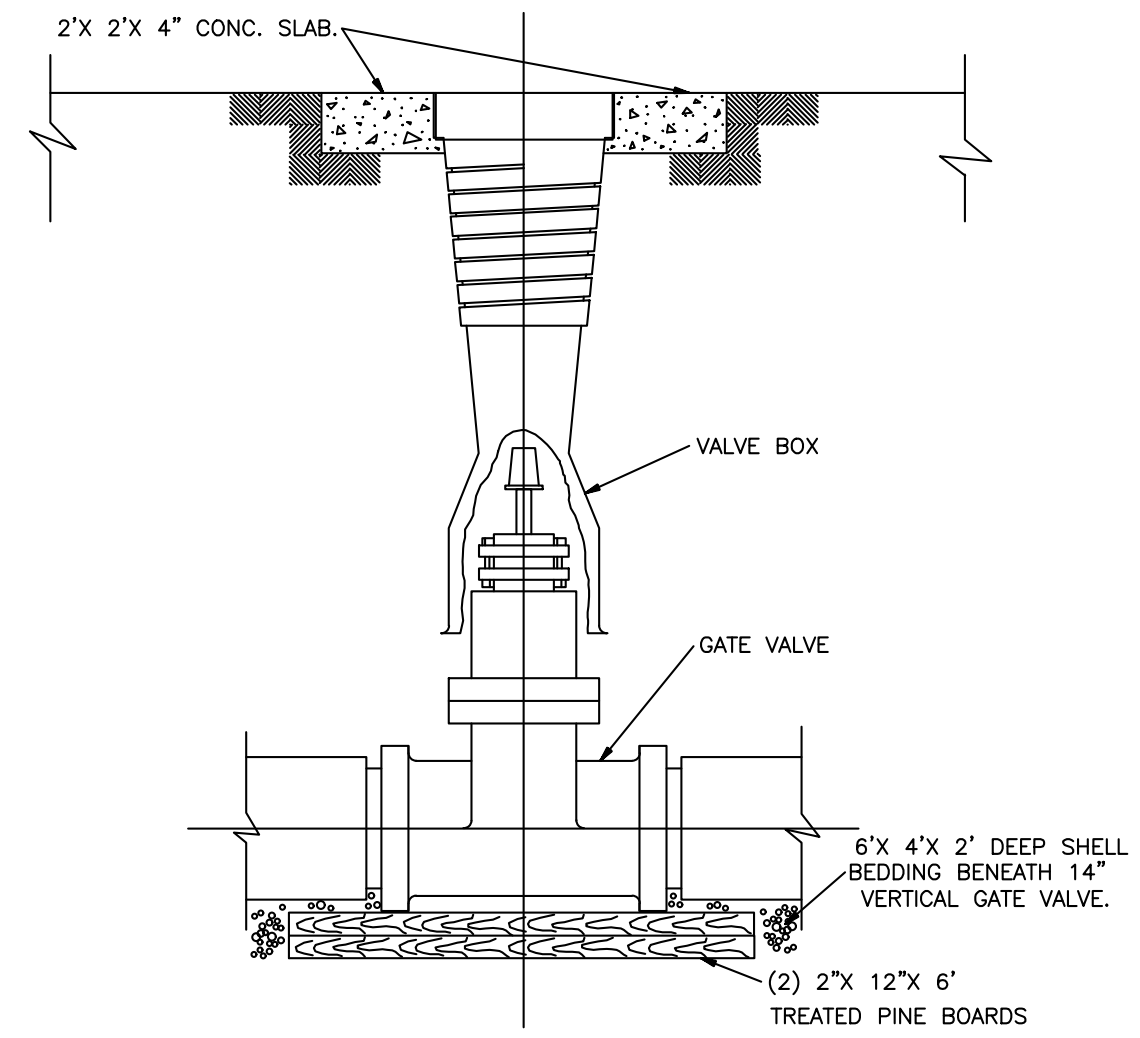
FIRE HYDRANT DETAIL
N.T.S.



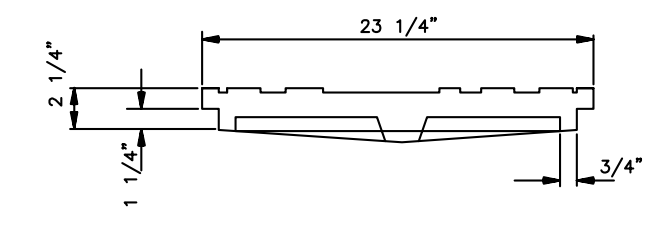
TYPICAL FIRE HYDRANT AND VALVE
LOCATIONS AT INTERSECTIONS
N.T.S.



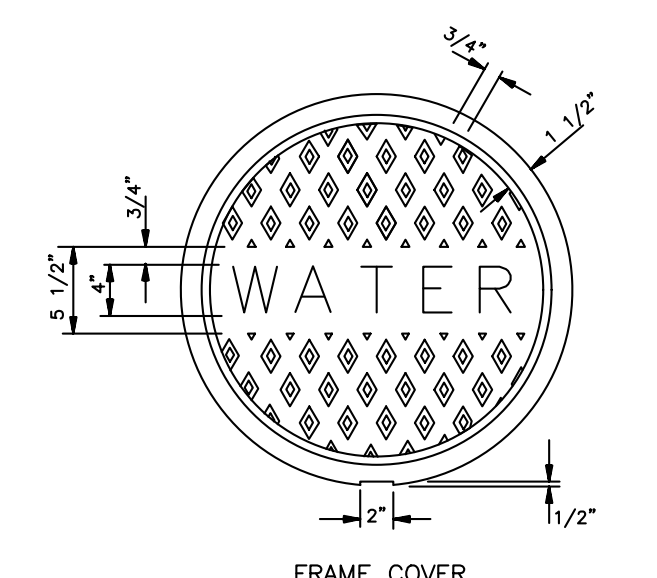
VALVE BOX TOP FOR TRAFFIC AREAS



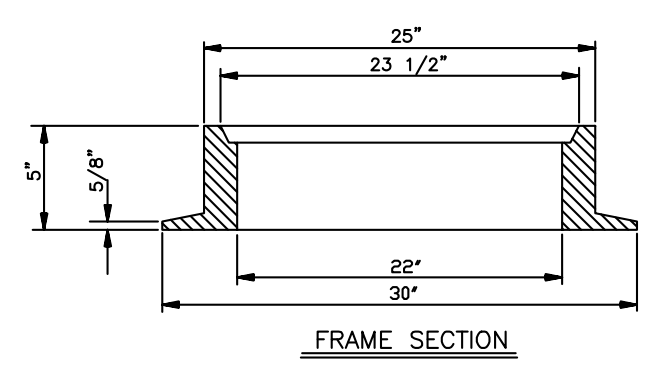
VALVE BOX DETAIL
N.T.S.



COVER SECTION

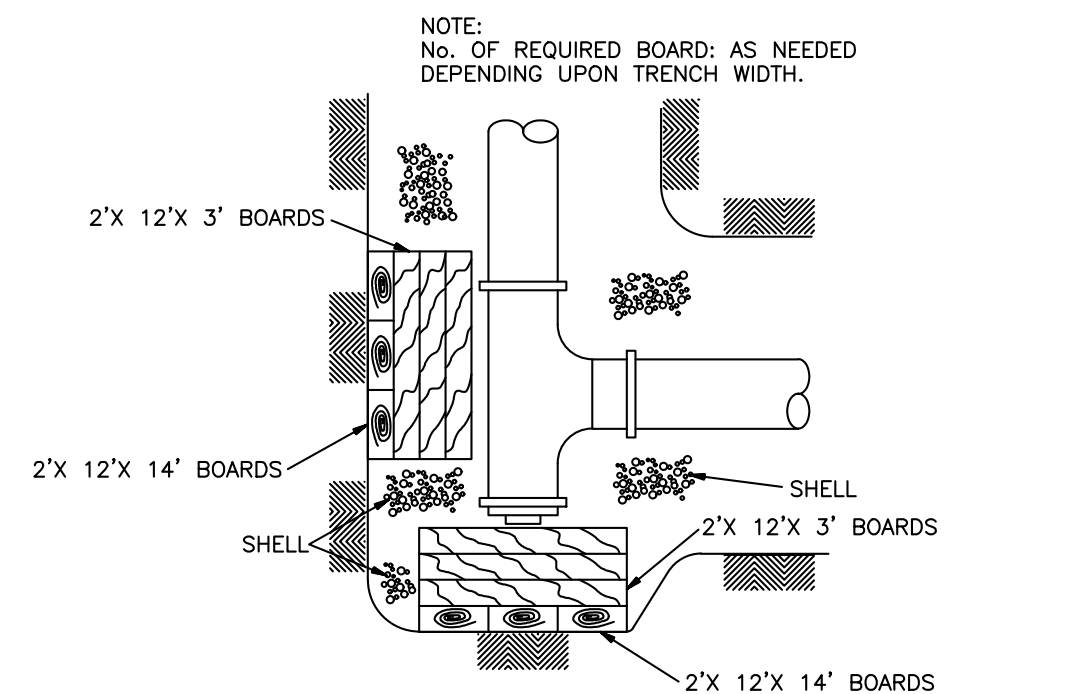
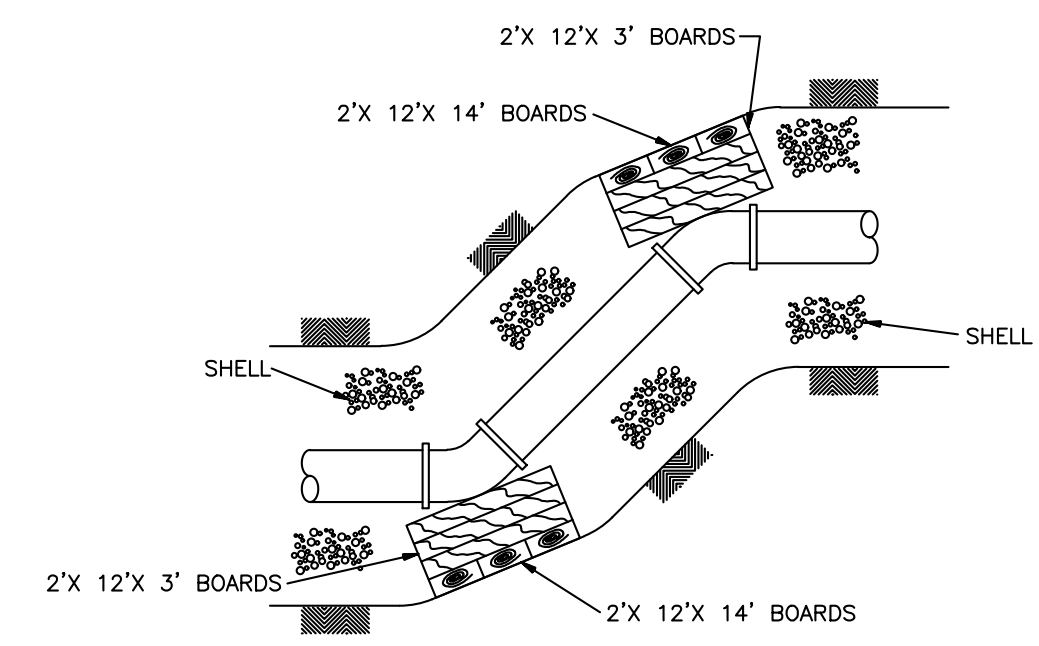
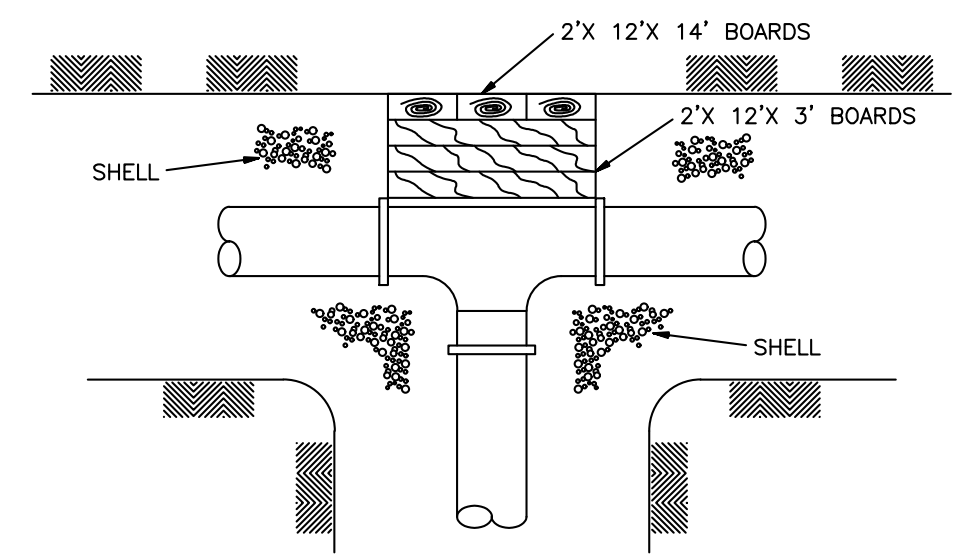


FRAME COVER

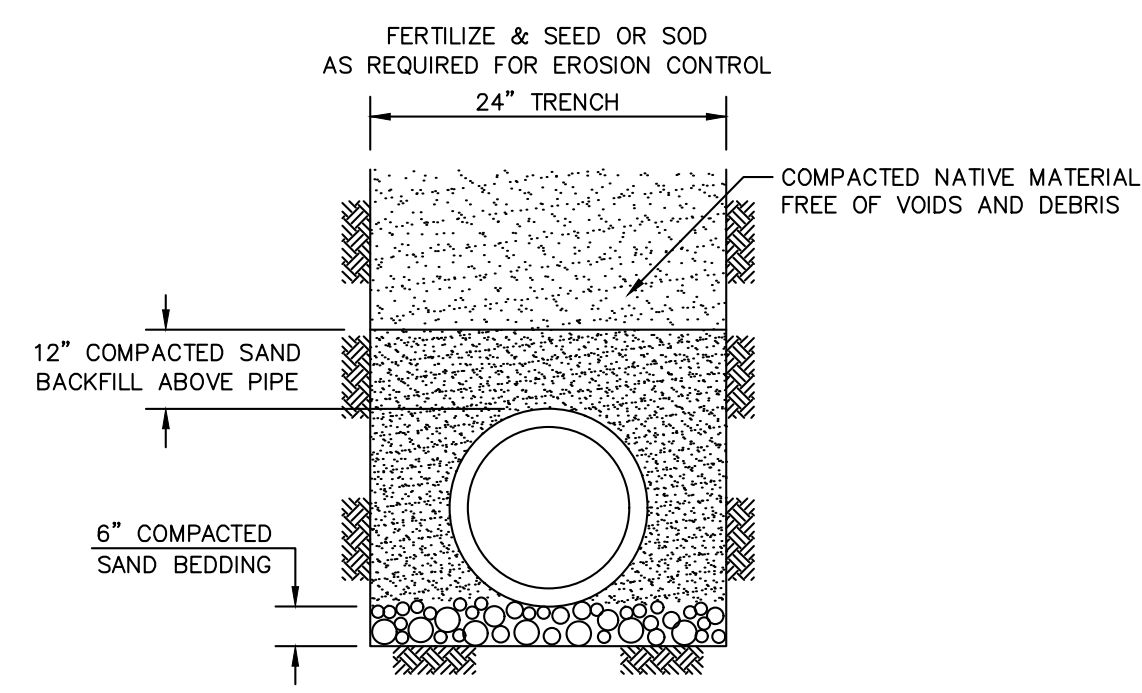


FRAME SECTION

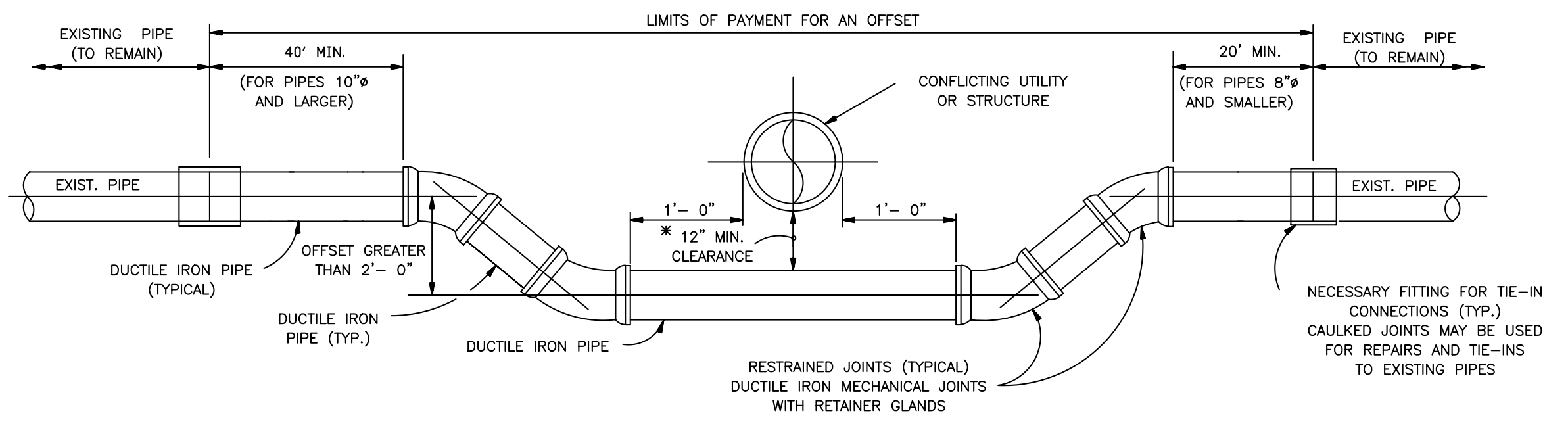
MANHOLE COVER
N.T.S.



THRUST BLOCKING DETAILS
N.T.S.



PIPE BEDDING BACKFILL DETAIL
N.T.S.



TYPICAL OFFSET DETAILS (VERTICAL OR HORIZONTAL
OFFSET) FOR WATER AND SEWER FORCE MAINS
N.T.S.

18" MIN. CLEARANCE BETWEEN SEWER FORCE MAINS AND WATER LINES



ENGINEER OF RECORD
NAME: ALLISON B. FROEBA
LICENSE NO. 32492
NUMBER: 617724

DATE	DESCRIPTION	REV. NO.	ISSUE NO.
			A

CADD NO.:	FDN. DWG	DATE	06/17/2024
DRAWN BY:	LAB	SCALE	AS NOTED
ISSUE NO.	27	REV. NO.	C 0



ALMEDIA GARDENS SUBDIVISION
MISCELLANEOUS WATER DETAILS

ST. CHARLES PARISH

LA COA: 5809



ENGINEER OF RECORD
 NAME: ALLISON B. FROEBA
 LICENSE NO. 32492

DATE	DESCRIPTION	REV. NO.	ISSUE NO.
			A

DATE	DESCRIPTION	REV. NO.	ISSUE NO.
			28

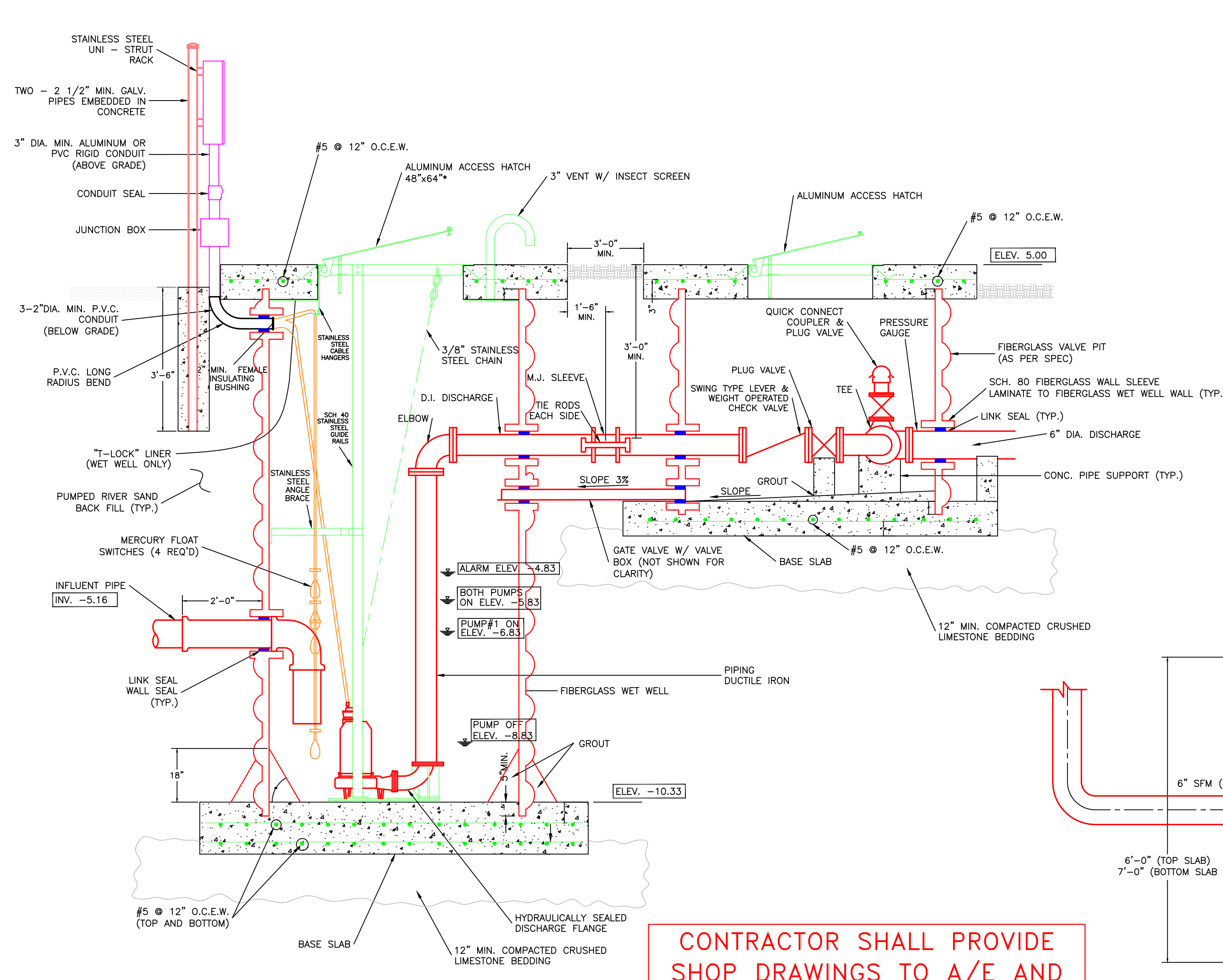
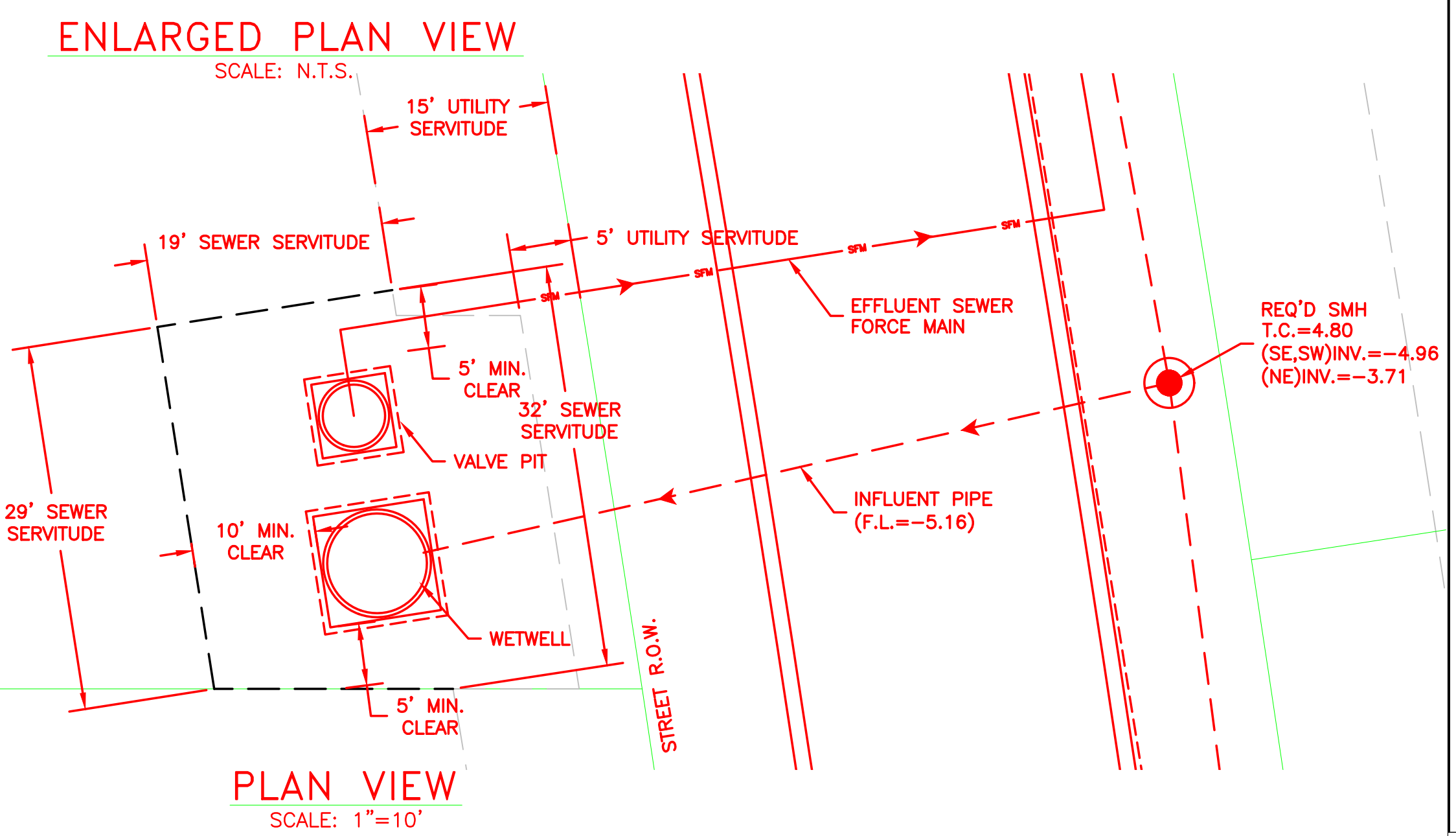
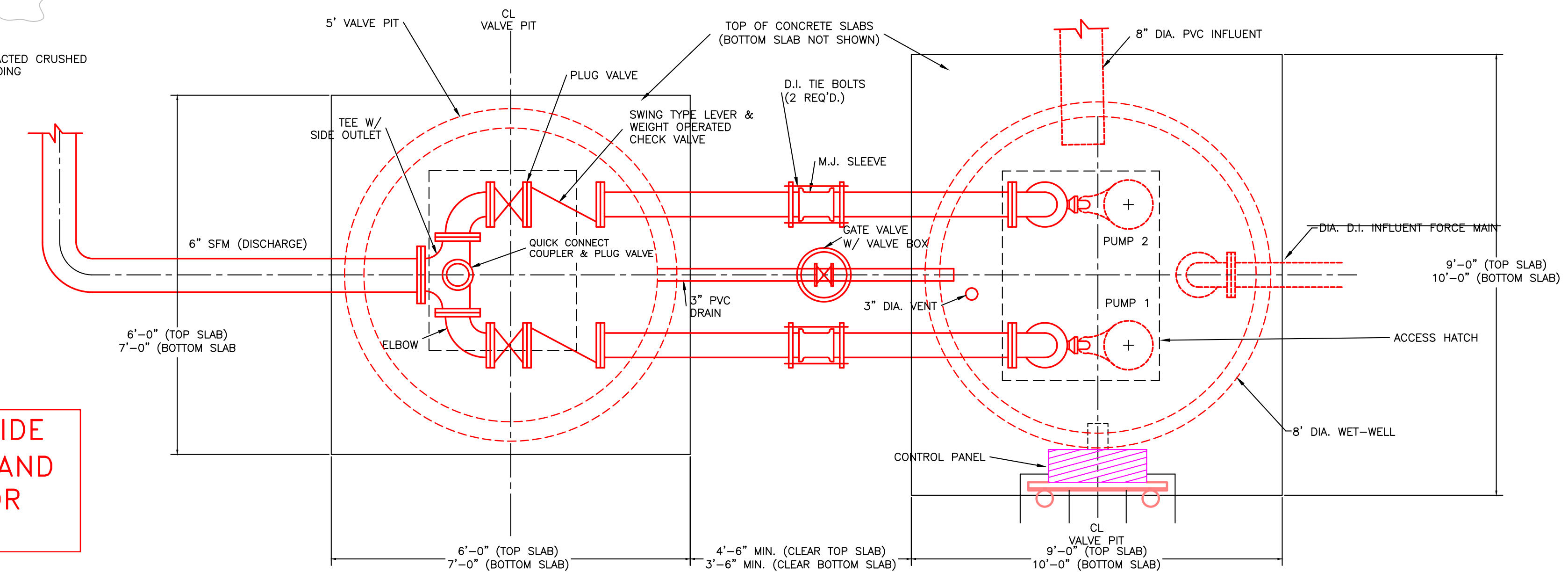
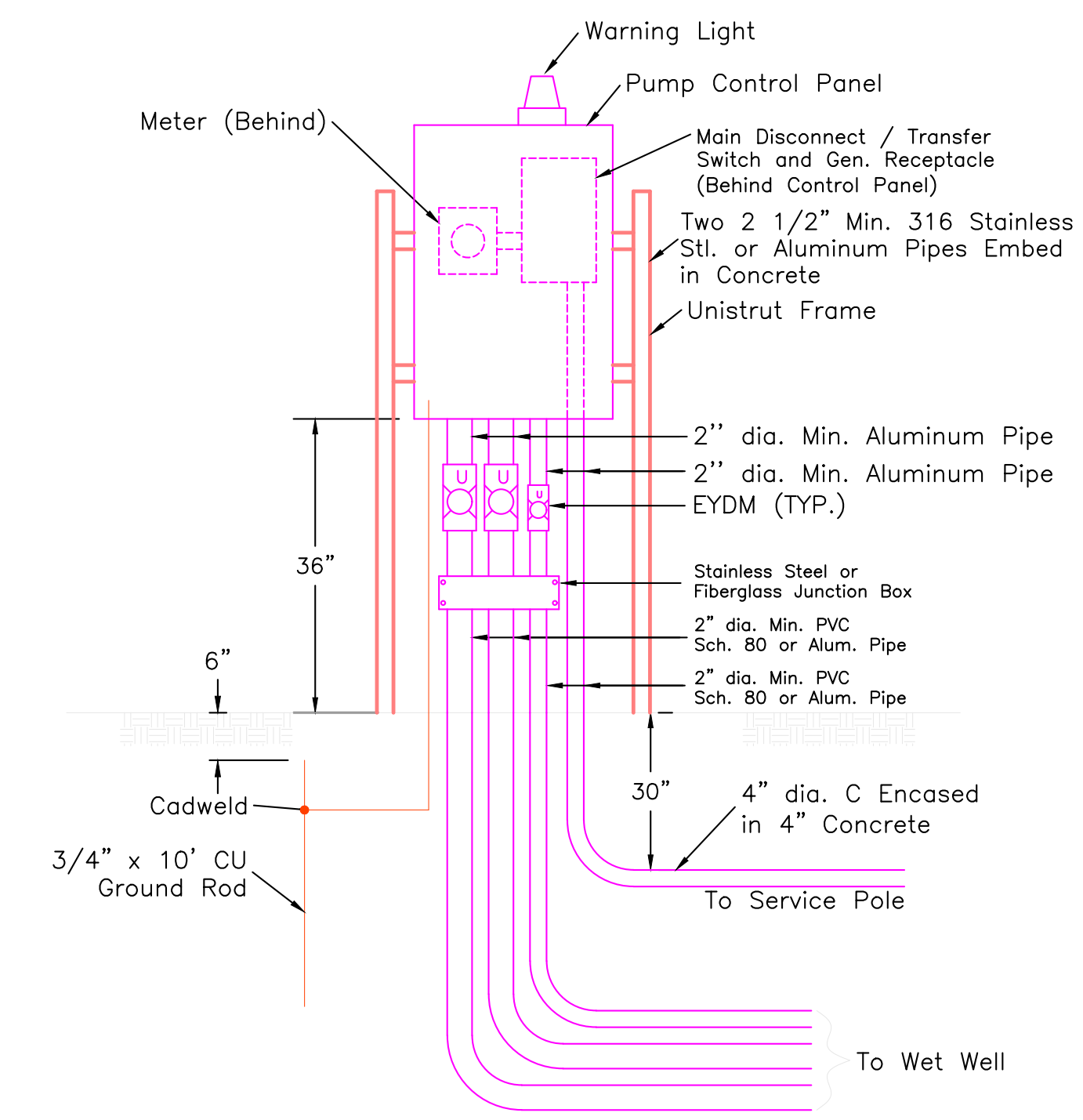
DATE	DESCRIPTION	REV. NO.	ISSUE NO.
			0

ALMEDIA GARDENS SUBDIVISION
 SEWER LIFT STATION DETAILS



- ELECTRICAL NOTES:**
- ALL CONDUITS ABOVE GRADE SHALL BE SCHEDULE 40 ALUMINUM OR SCHEDULE 80 PVC, AND CONDUITS BELOW GRADE SHALL BE SCHEDULE 80 PVC. CONDUITS TO BE PACKED AND SEALED.
 - MOUNT EQUIPMENT ON 316 STAINLESS STEEL POLES AND 316 STAINLESS STEEL UNI-STRUT FRAME. FASTENERS AND UNI-STRUT TO BE STAINLESS STEEL.
 - MAINTAIN ELECTRICAL SERVICE TO EXISTING FACILITIES DURING CONSTRUCTION OR PROVIDE TEMPORARY POWER AS REQUIRED. SERVICE TO THE LIFT STATION SHALL NOT BE INTERRUPTED WITHOUT PRIOR APPROVAL OF THE ST. CHARLES PARISH DEPARTMENT OF PUBLIC WORKS/WASTEWATER.
 - EXISTING ELECTRICAL WIRING AND EQUIPMENT SHALL BE REMOVED AND DELIVERED TO THE OWNER OR DISPOSED OF AS DIRECTED BY THE ENGINEER.
 - ENCLOSURE FOR TRANSFER SWITCH / DISCONNECT SHALL BE NEMA 3R, STAINLESS STEEL, PROVIDE ENGRAVED PLASTIC NAMEPLATES TO DENOTE "NORMAL POWER", "EMERGENCY POWER", AND "VOLTAGE - 480, 3 PHASE".
 - ALL EQUIPMENT SHALL BE NEMA 4 RATED.
 - ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE, LATEST REVISION, AND ENERGY SERVICE STANDARDS.
 - NEW SERVICE SHALL BE 277/480 VOLT, 3 PHASE, 60 HZ
 - CONTRACTOR TO PROVIDE NECESSARY TRANSFORMER TO SUPPLY VOLTAGE REQUIRED FROM UNDERGROUND FEED.
- NOTE:** SOME ITEMS IN THIS VIEW HAVE BEEN ROTATED FOR CLARITY.

ELECTRICAL EQUIPMENT INSTALLATION



CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO A/E AND ST. CHARLES PARISH FOR APPROVAL

LIFT STATION SECTION VIEW
 SCALE: N.T.S.

PUMP STATION DATA TABLE			
PUMP STATION NUMBER	ALMEDIA GARDENS FULL DEVELOPMENT & CHARLESTOWNE	ALMEDIA GARDENS PHASE 1 & CHARLESTOWNE	ALMEDIA GARDENS PHASE 1 & 2 & CHARLESTOWNE
NUMBER OF PUMPS	2	2	2
TYPE OF DRIVE	CONSTANT	CONSTANT	CONSTANT
DESIGN CAPACITY PER PUMP, G.P.M.	462.5	401.56	440.63
TOTAL DYNAMIC HEAD, FT.	48.66	39.42	45.42
MIN. EFF. AT DESIGN CAPACITY, %	65.5	60.3	63.5
DESIGN SPEED, MAX R.P.M.	1750	1750	1750
MIN. HORSEPOWER PER PUMP, HP	15	15	15
MIN. SIZE SOLIDS, INCHES	3.0	3.0	3.0
MIN. DISCHARGE SIZE, INCHES	4	4	4
IMPELLER DIA. SIZE, INCHES	8.13	7.5	7.88

DATE	REVISION
3-8-05	REVISE "CABLE" TO "CHAIN"
5-18-05	UNISTRUT, 3 2" PVC CONDUITS, PRES. GAUGE, REVISE NOTE 13.

**SEWER LIFT STATION
 DETAIL**

ST. CHARLES PARISH
 DEPARTMENT OF WASTEWATER

DESIGNED BY: T.M.D. DRAWN BY: T.M.D. CHECKED BY: L.P.Z.

SCALE: NTS
 DATE: 7-17-03
 J.N.
 SHEET NO. 1 OF 1

- LIFT STATION NOTES:**
- CONCRETE SHALL BE 4000 PSI AT 28 DAYS WITH 4" MAXIMUM SLUMP. REINFORCING BARS SHALL BE ASTM A615, GRADE 60. LIMESTONE SHALL BE INCLUDED. CONTRACTOR SHALL COORDINATE WITH ST. CHARLES PARISH WASTEWATER DEPARTMENT PRIOR TO CONSTRUCTION FOR MIX DESIGN AND DETAILS.
 - PROVIDE 3/4" CHAMFER ON EXPOSED EDGES AND RUBBED FINISH ON EXPOSED SURFACES OF TOP SLABS.
 - FIBERGLASS WET WELL AND VALVE PIT SHALL BE MANUFACTURED BY HUTCHINS CORP. OR APPROVED EQUAL. PROVIDE SCHEDULE 80 FIBERGLASS PIPE WALL SLEEVES FOR ALL WALL PENETRATIONS. LAMINATE WALL SLEEVES TO FIBERGLASS WET WELL AND VALVE PIT WALLS. SEAL ANNULAR SPACE WITH "LINK - SEALS" USING ALL STAINLESS STEEL BOLTS AND HARDWARE.
 - COMPLETED WET WELL AND VALVE PIT SHALL BE COMPLETELY WATERTIGHT.
 - PROVIDE LINER OR EPOXY IN UNDERSIDE OF NEW WET WELL TOP SLAB AND NEW TOP SLAB FOR EXISTING WET WELL. ALL EXPOSED CONCRETE SHALL BE COATED WITH EPOXY AT MINIMUMS AS APPROVED BY ST. CHARLES PARISH.
 - ALL INTERNAL PIPING SHALL BE FLANGED DUCTILE IRON. DUCTILE IRON PIPING OUTSIDE THE WET WELL SHALL HAVE MECHANICAL JOINTS WITH RESTRAINER GLANDS. CONNECT TO EXISTING FORCE MAINS USING MECHANICAL JOINTS AND RESTRAINER GLANDS. (EBAA IRON OR UNIFLANGE)
 - ALL FASTENERS, BRACKETS, PLATES, HANGERS, ETC. (INCLUDE FLANGE BOLTS) IN THE WET WELL SHALL BE 316 STAINLESS STEEL ONLY.
 - DISCHARGE CHECK VALVES SHALL BE SWING TYPE WITH OUTSIDE LEVER AND WEIGHT. PLUG VALVES SHALL BE FULL PORTED, ECCENTRIC, NON-LUBRICATED PLUG VALVES WITH GEARED OPERATORS.
 - PUMPS SHALL BE SUBMERSIBLE NON-CLOG WASTEWATER PUMPS. PUMPS SHALL BE MANUFACTURED BY HYDOMATIC (MODEL S4MP1500C) OR APPROVED EQUAL. PUMPS SHALL BE 3" SUBMERSIBLE, 5 HP, 1150 RPM MOTORS, CAPACITY OF EACH PUMP SHALL BE 463 GPM AT 48.66 T.D.H. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF LIFT STATION INCLUDING PUMPS AND MOTOR PRIOR TO CONSTRUCTION FOR APPROVAL.
 - MOTORS SHALL BE SUBMERSIBLE TYPE, SUITABLE FOR 120/240 VOLT, 3 PHASE, 60 HERTZ SERVICE. MOTORS SHALL BE NON-OVERLOADING ANYWHERE ON THE PUMP OPERATING CURVE. (CONTRACTOR SHALL PROVIDE STEP DOWN TRANSFORMER FROM UNDERGROUND SERVICE TO ELIMINATE OVERHEAD FEED).
 - CONTROLS SHALL AUTOMATICALLY OPERATE ONE OR BOTH PUMPS AS REQUIRED BY THE LIQUID LEVEL IN THE WET WELL AND SHALL AUTOMATICALLY ALTERNATE LEAD AND LAG PUMPS EACH CYCLE. LEVEL CONTROLS SHALL BE MERCURY FLOAT SWITCHES. ALL EQUIPMENT SHALL BE NEMA 4 RATED. CONTROL ENCLOSURE SHALL BE WELDED STAINLESS STEEL.
 - CONTRACTOR SHALL BACK FILL EXCAVATIONS WITH PUMPED RIVER SAND. EXCESS EXCAVATED MATERIAL SHALL BE HAULED OFF SITE AND DISPOSED OF BY CONTRACTOR.
 - THE FLOATS SHALL BE SET TO AVOID SURCHARGING OF ALL INFLUENT PIPES AND TO MAINTAIN MINIMUM PUMP EFFICIENCY.