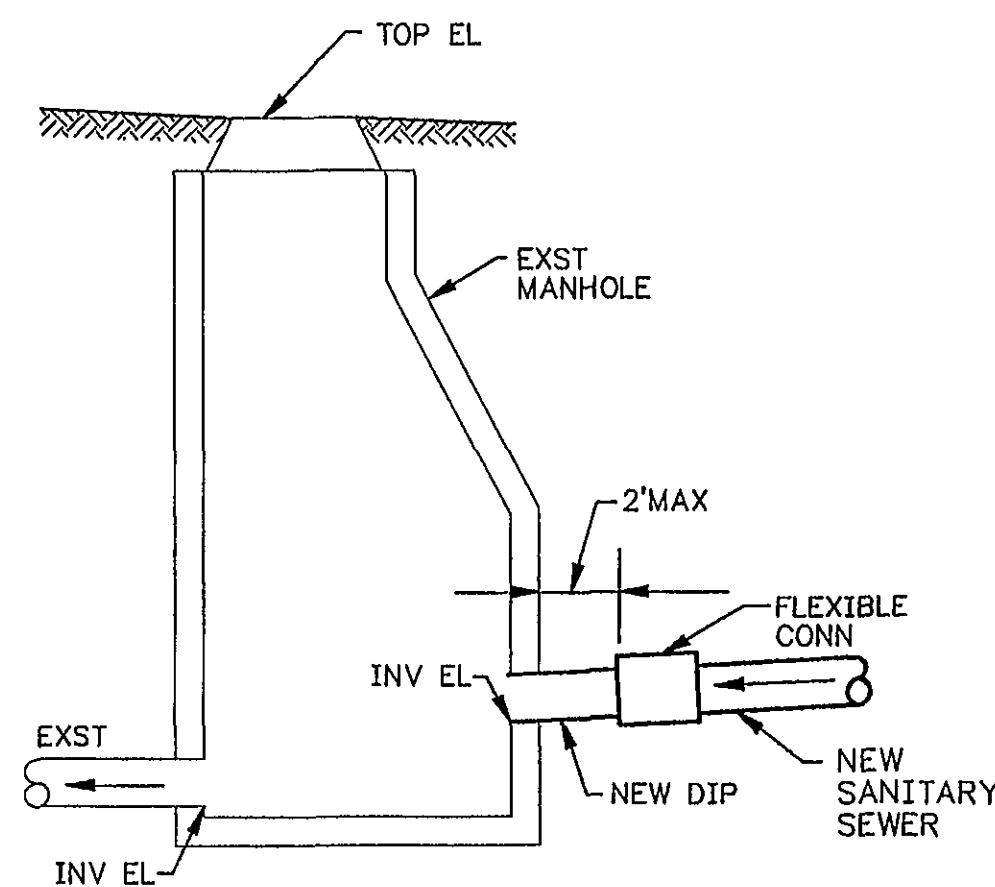


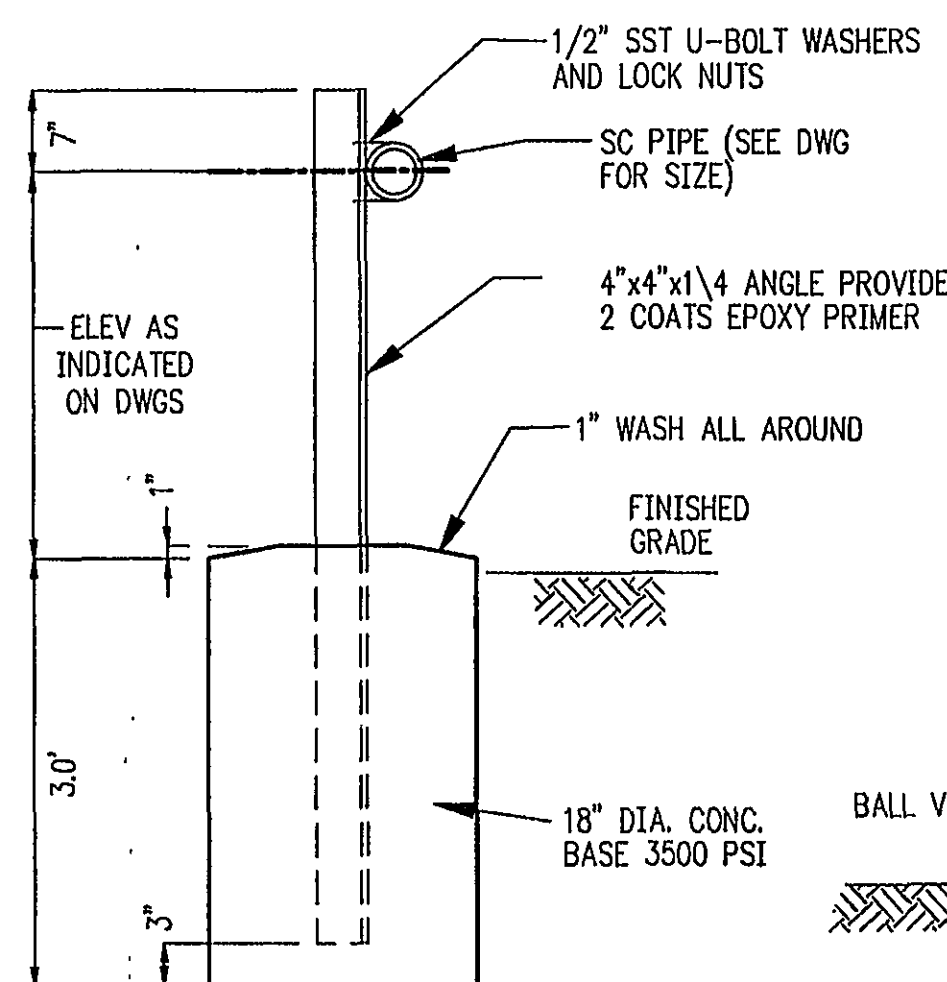
SECTION L
SPILL CONTAINMENT TANK
NO SCALE



NOTES:

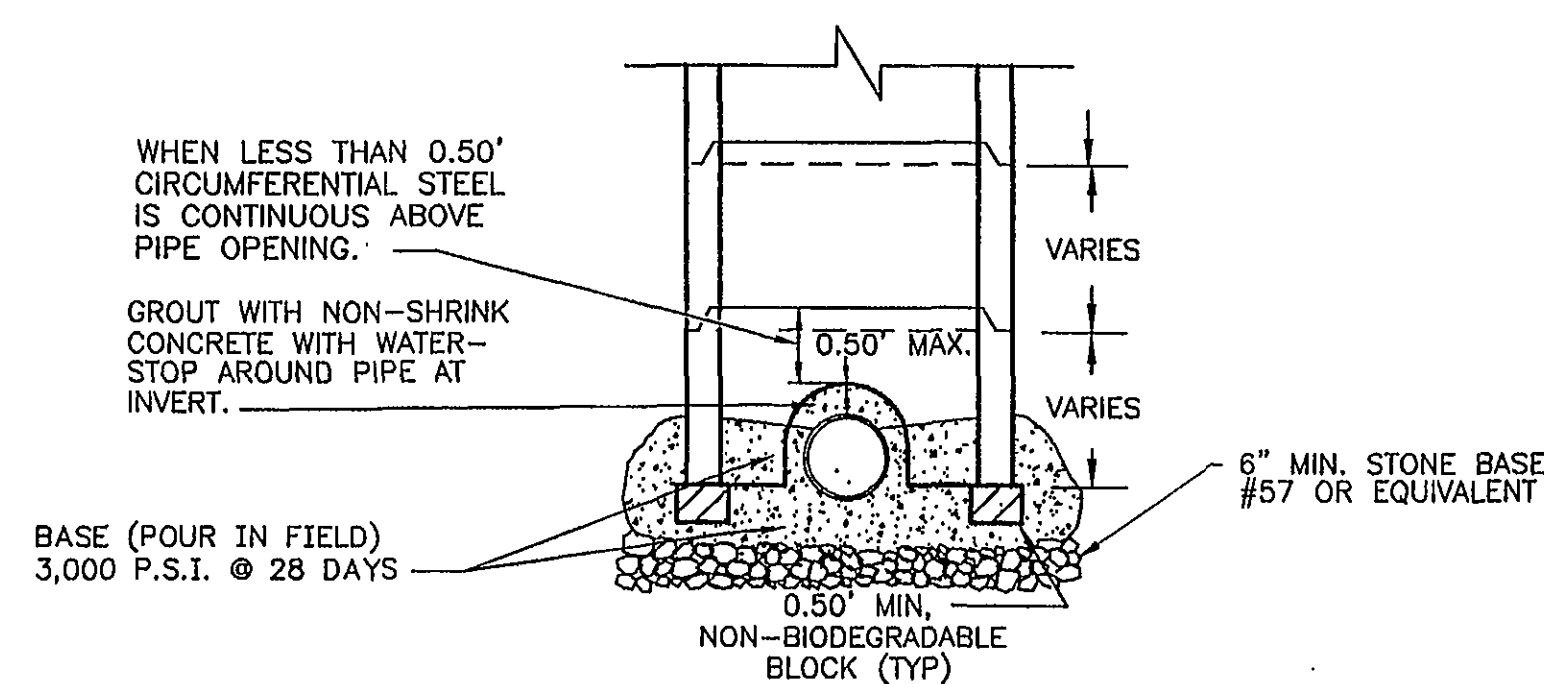
1. TAP INTO EXST MANHOLE BY CORING
2. SECURE 8" DIP SPOOL PIECE, IN PLACE,
WITH NON-SHRINK GROUT
3. CONNECT 8" DIP SPOOL PIECE TO NEW 8"
SANITARY SEWER WITH A FLEXIBLE CONNECTION
4. RESHAPE MANHOLE INVERT

CONNECTION TO EXST MANHOLE
NO SCALE (MH#100B)

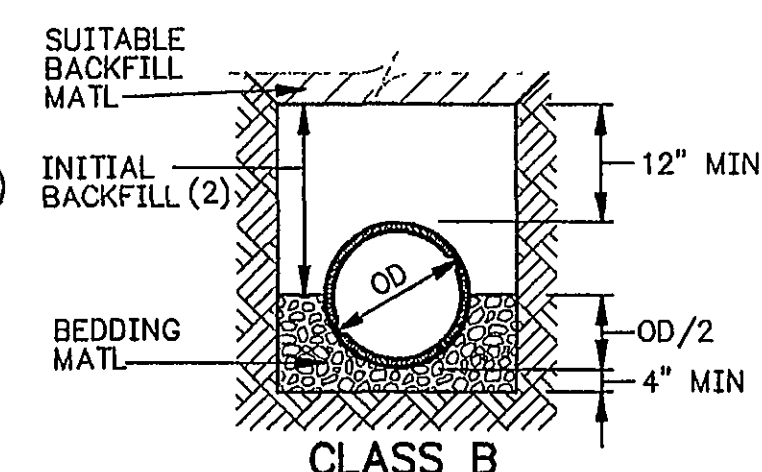


PIPE SUPPORT

- (1) 36" DIA. CLEAR OPENING FLANGED MANWAY.(ALUMINUM)
- (2) 10" CONNECTION
- (3) 4" VENT (SLOPE @ 1% TOWARD TANK) (10 FT. ABOVE FLOOR) (WITH FLAME ARRESTOR) (INSECT SCREEN)
- (4) 10" FLANGED NOZZLE
- (5) PUMP P-21
- (6) 10" BCS-150 DROP TUBE
- (7) DIELECTRIC FLANGE
- (8) LOADING PAD (SEE DETAIL THIS SHEET)
- (9) LEVEL GAUGE
- (10) PIPE SUPPORT (TYP)
- (11) THREADED CAP
- (12) 3'x3'x6" CONC. SUPPORT PAD
- (13) LADDER RUNGS TO BOTTOM OF TANK
- (14) STRIKER/WEAR PLATE BELOW 10" NOZZLE AND MANWAY
- (15) SECURE 10" DROP TUBE TO BOTTOM OF TANK
- (16) 4" VENT PIPE
SLOPE AT 1% TOWARD TANK
- (17) 6" SC (PUMP DISCHARGE TO STORM MANHOLE)
- (18) 6" GATE VALVE
- (19) HIGH WATER ALARM FLOAT
- (20) 6" SC PUMP SUCTION
- (21) 6" FLANGED NOZZLE SPARE
- (22) CUT PIPE AT 45°
- (23) PUMP PAD FOUNDATION
- (24) 3" STICK GAUGE/SAMPLE
PORT RISER
- (25) CONSTRUCTION FLANGE



DOGHOUSE MANHOLE (MH#100)
NO SCALE

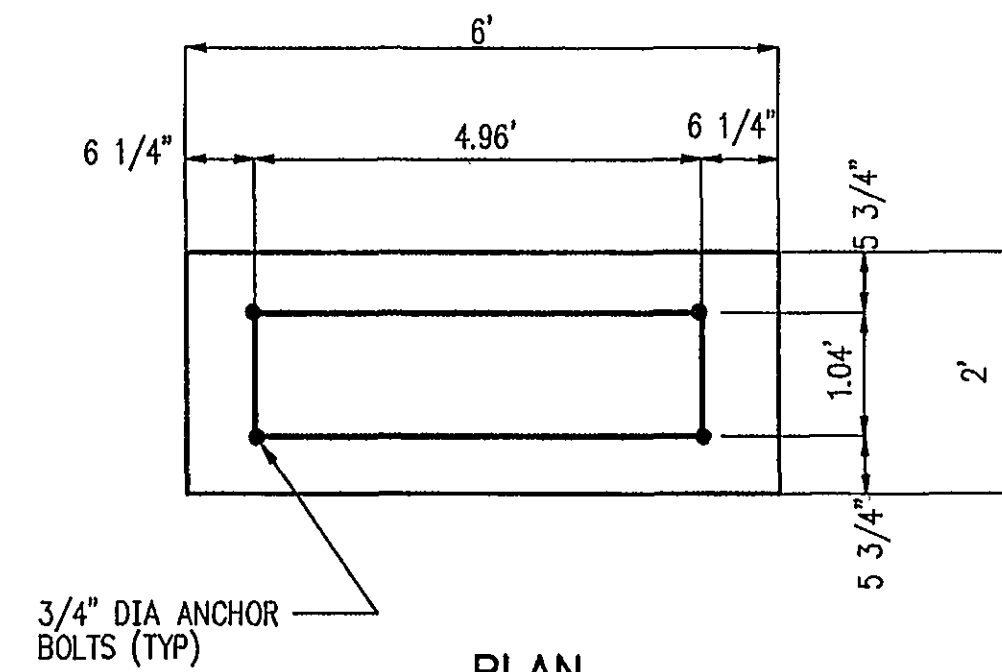


- (1) WIDTHS SHOWN ARE MAX TRENCH WIDTH FROM 12" ABOVE TOP OF PIPE TO BOT OF TRENCH. TRENCH WIDTHS SHALL ALSO CONFORM W/ THE MIN WIDTHS INDICATED.

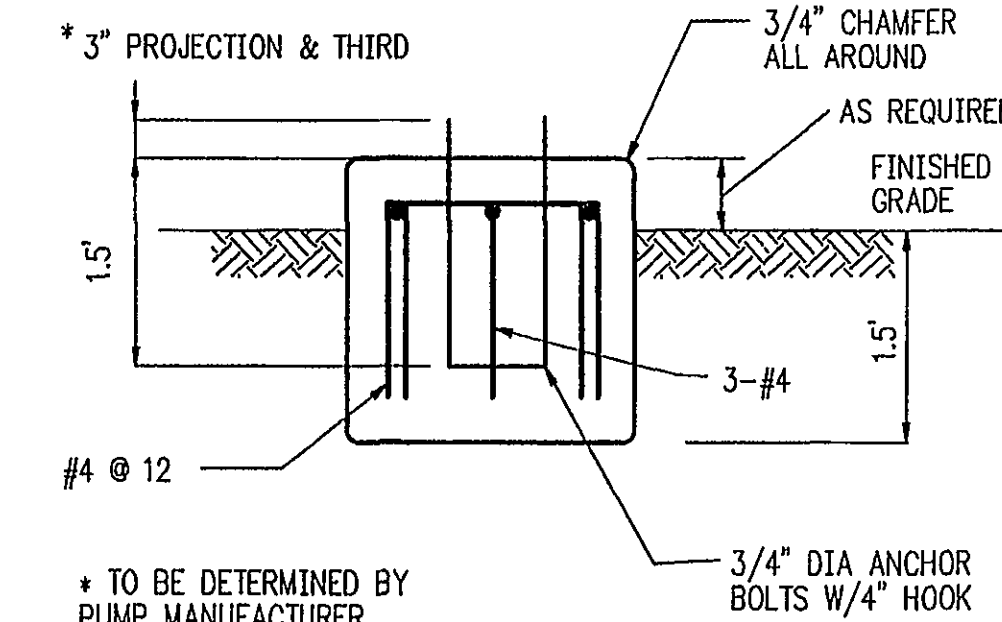
- (2) MATERIAL FOR INITIAL BACKFILL SHALL BE AS SPECIFIED.

TRENCH WIDTH	
NOMINAL PIPE DIA	TRENCH ⁽¹⁾ WIDTH
4" & 6"	2'-0"
8" THRU 12"	2'-8"
15" THRU 21"	PIPE OD + 20"
24" THRU 30"	PIPE OD + 24"

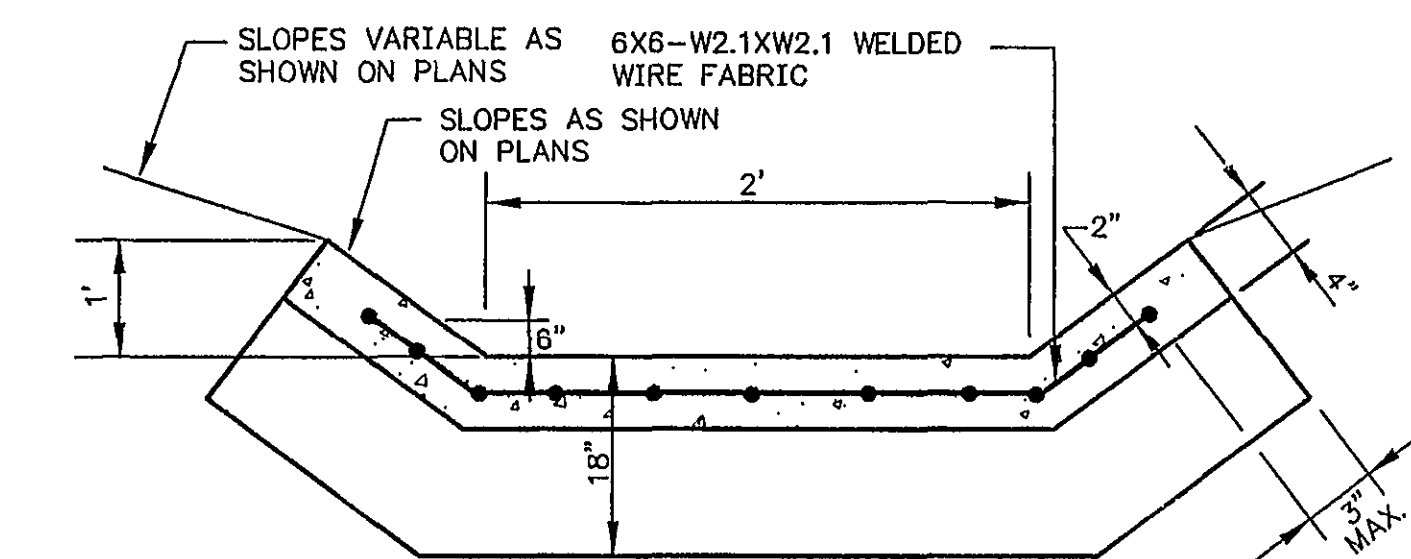
PIPE TRENCH
NO SCALE



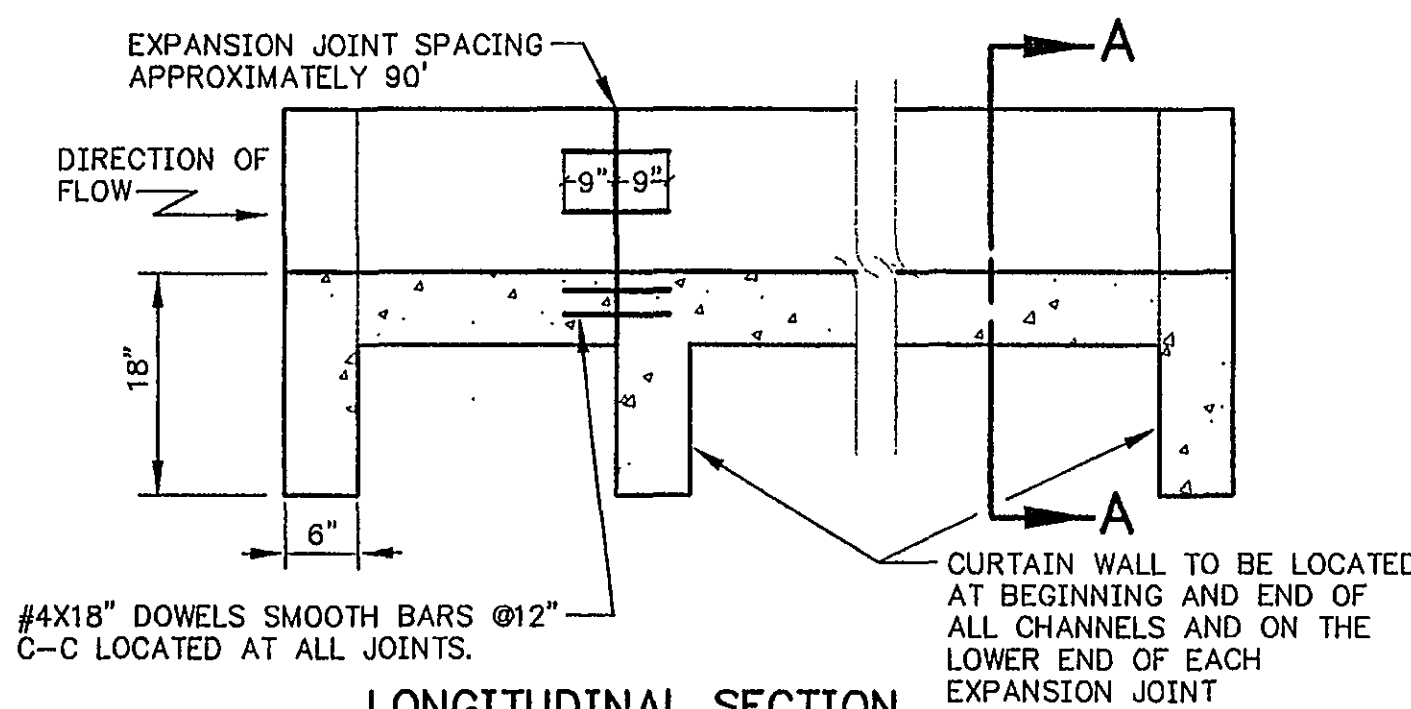
PLAN



MANUFACTURER
PUMP P-21 FOUNDATION

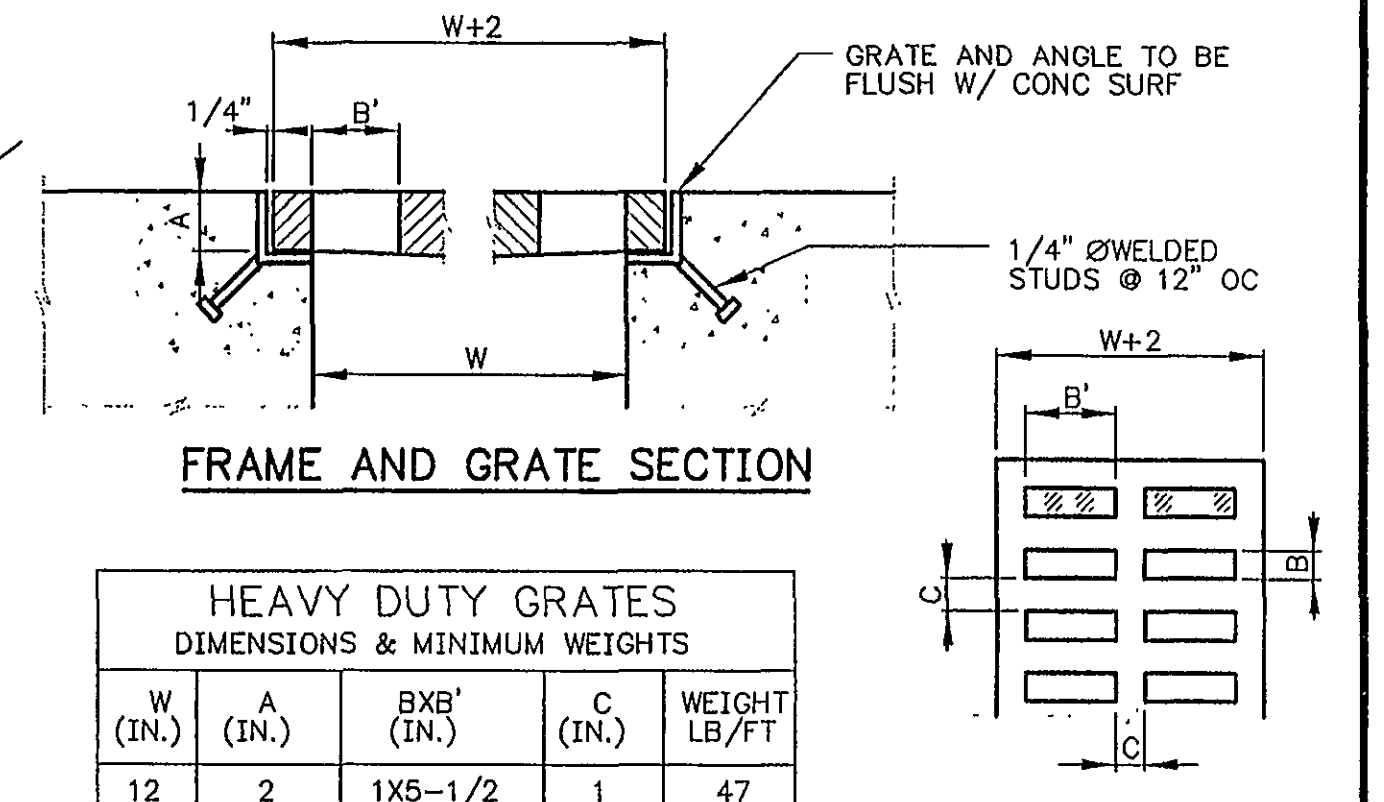


CONCRETE TO BE 3000 PSI SECTION A-A



LONGITUDINAL SECTION

CONCRETE PAVED DITCH
NO SCALE



FRAME AND GRATE SECTION

HEAVY DUTY GRATES				
DIMENSIONS & MINIMUM WEIGHTS				
W (IN.)	A (IN.)	BXB' (IN.)	C (IN.)	WEIGHT LB/FT
12	2	1X5-1/2	1	47

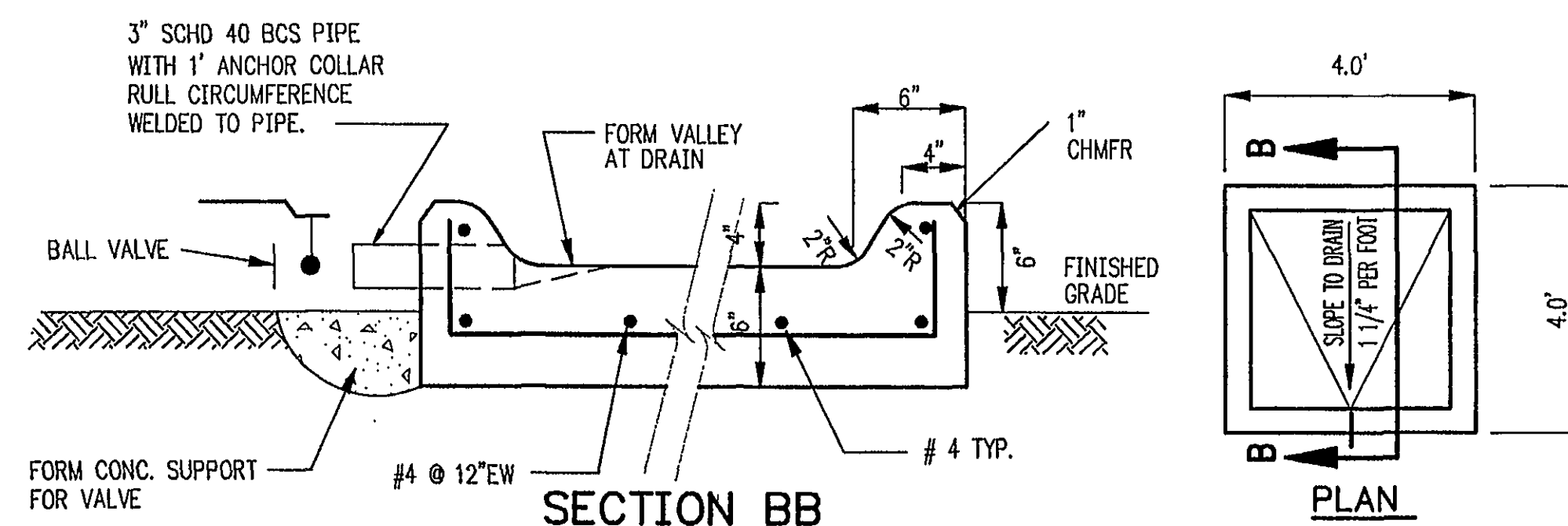
GRATE SHALL NOT BE BOLTED
TO FRAME UNLESS INDICATED

GRATE PLAN

NOTES:

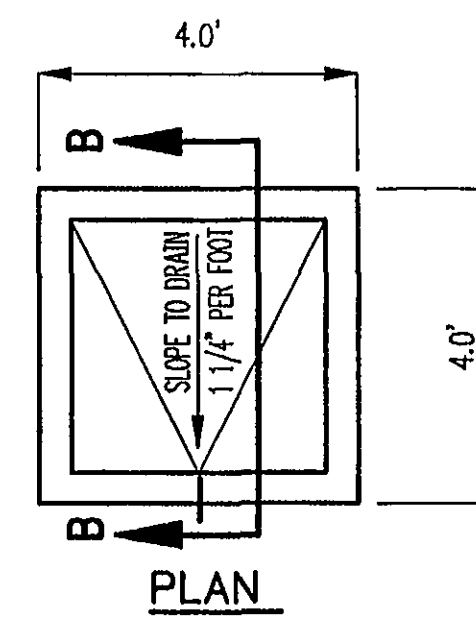
1. ALL GRATES AND FRAMES SHALL BE HEAVY DUTY
2. GRATE AND FRAME SHALL BE GRAY CAST IRON OR DUCTILE CAST IRON.

TRENCH DRAIN
NO SCALE



SECTION BB

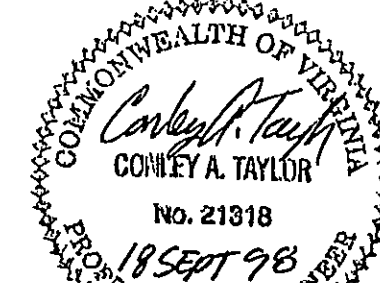
LOADING PAD
NO SCALE



PLAN

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REVISION	DATE	DESCRIPTION	BY	APP.	
DESIGNED	CAT	 PLANT UPGRADES AKZO NOBEL PLANT ROANOKE, VIRGINIA			
DRAWN	CAT				
CHECKED	GWB				
APPROVED	PPA				
SUBMITTED	DRS				
HAYES, SEAY, MATTERN & MATTERN, INC.			SCALE AS NOTED	COMM. NO.	6345
ARCHITECTS — ENGINEERS — PLANNERS			DATE	SHEET	C5
ROANOKE, VIRGINIA			18 SEPT 1978		