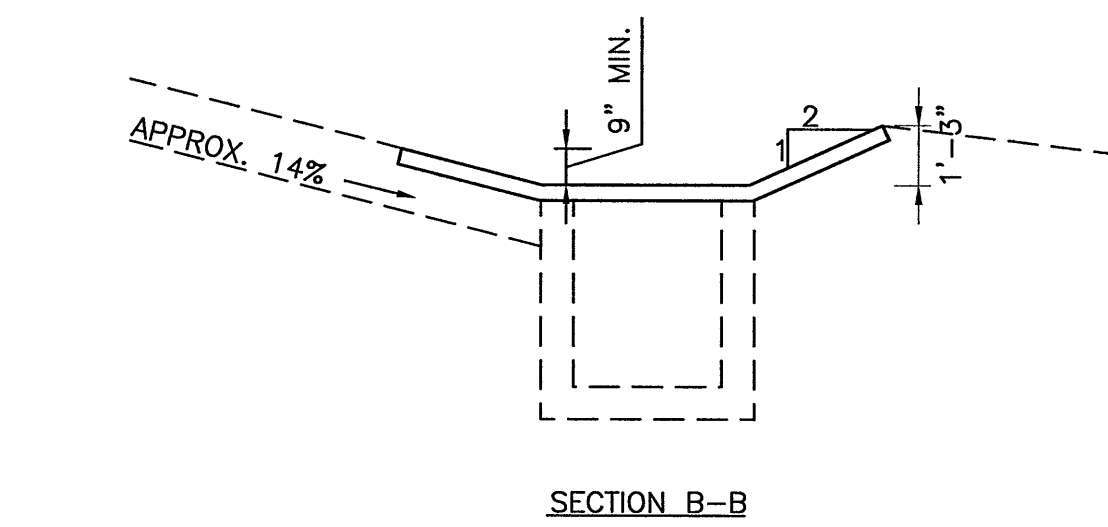
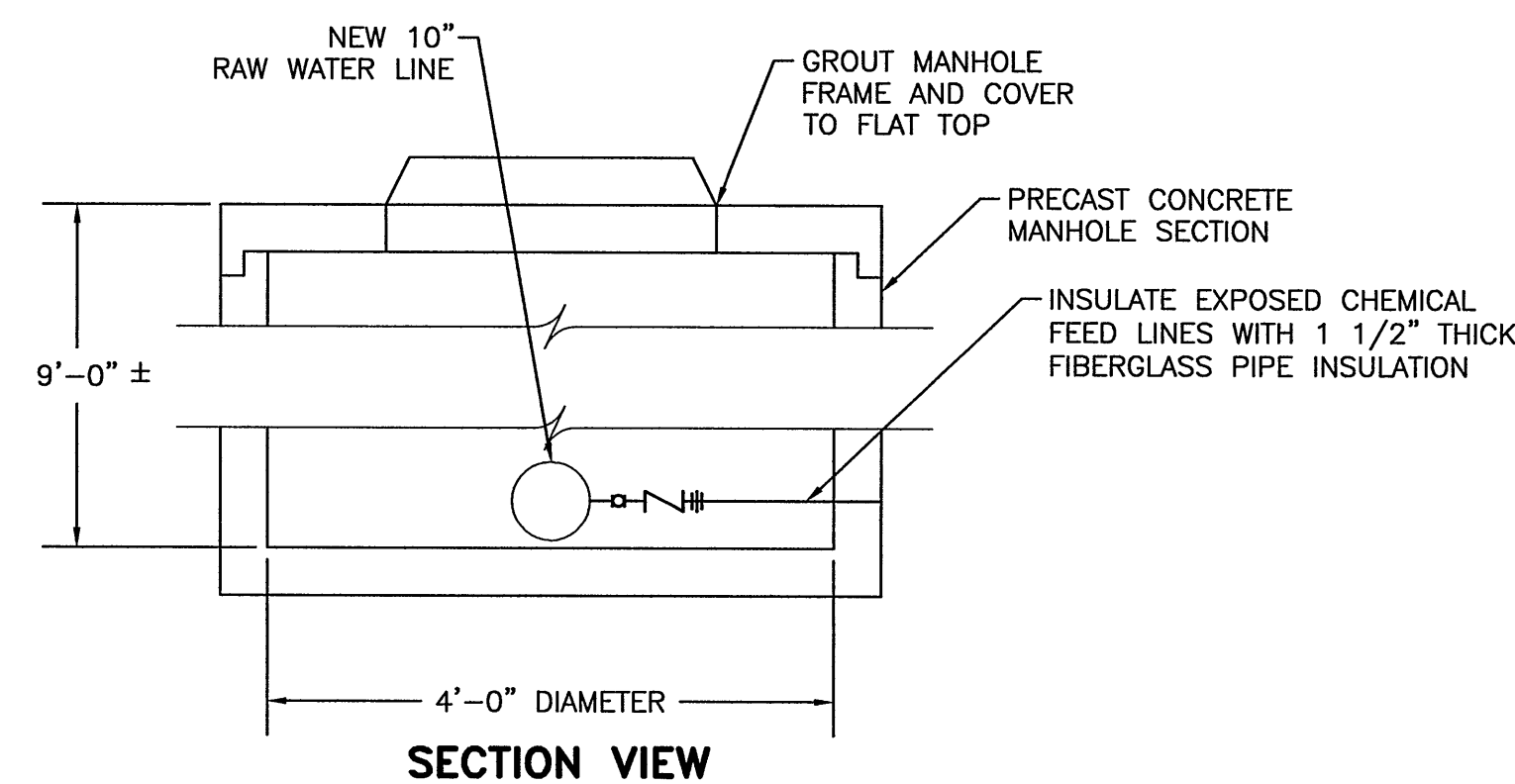
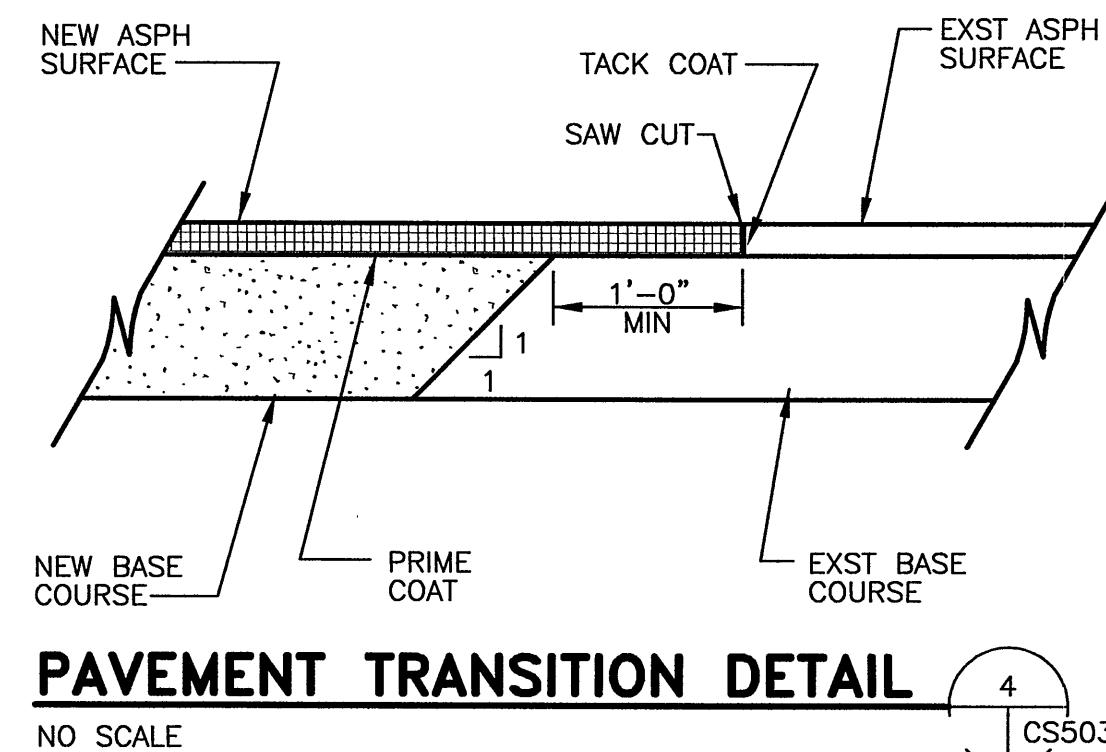




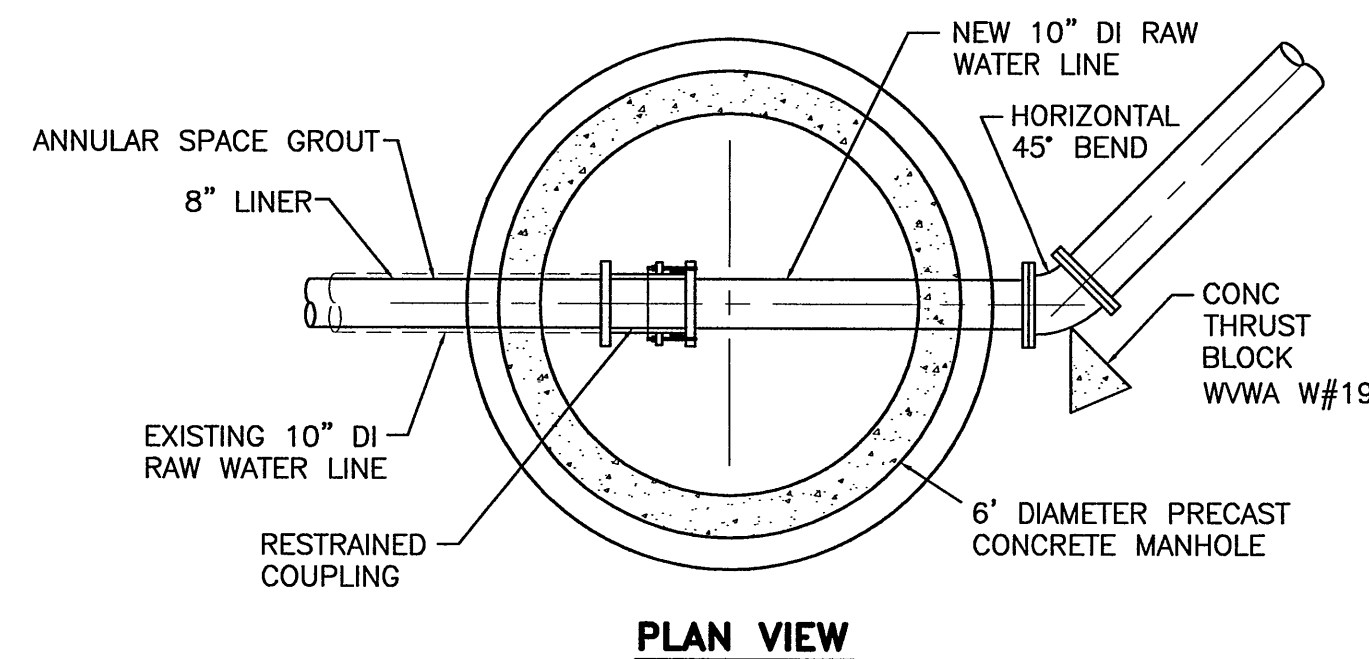
NO SCALE



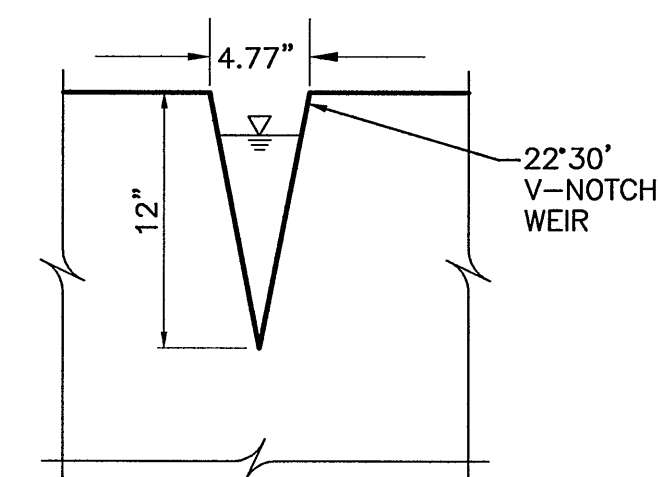
NO SCALE



NO SCALE



NO SCALE

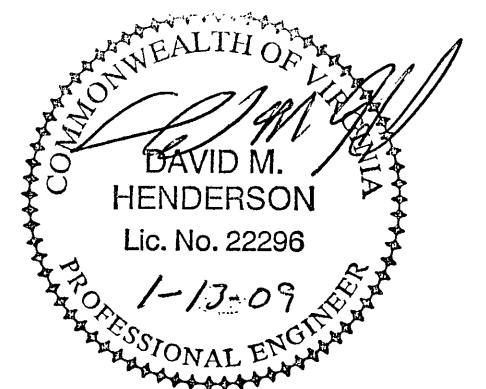


WEIR RATING TABLE			
H (INCHES)	Q (GPM)	H (INCHES)	Q (GPM)
0.00	0	6.00	39.86
0.25	0.01	6.25	44.14
0.50	0.08	6.50	48.69
0.75	0.22	6.75	53.5
1.00	0.45	7.00	58.59
1.25	0.79	7.25	63.97
1.50	1.25	7.50	69.83
1.75	1.83	7.75	75.57
2.00	2.56	8.00	81.82
2.25	3.43	8.25	88.36
2.50	4.47	8.50	95.21
2.75	5.67	8.75	102.36
3.00	7.05	9.00	109.83
3.25	8.61	9.25	117.62
3.50	10.36	9.50	125.73
3.75	12.31	9.75	134.16
4.00	14.46	10.00	142.93
4.25	16.83	10.25	152.03
4.50	19.42	10.50	161.47
4.75	22.23	10.75	171.25
5.00	25.27	11.00	181.38
5.25	28.54	11.25	191.86
5.50	32.06	11.50	202.7
5.75	35.83	11.75	213.9
		12.00	225.4

$$Q = \frac{8}{15} \cdot C_d \tan\left(\frac{\Theta}{2}\right) \sqrt{2g \cdot H^2}$$

Q = FLOW, CFS (MULTIPLY BY 448.8 TO CONVERT TO GPM)
 8/15 = CONSTANT
 Cd = WEIR COEFFICIENT, 0.59
 Θ = WEIR ANGLE (22.5 DEGREES)
 g = GRAVITATION CONSTANT, 32.2 FT/SEC²
 H = HEAD ABOVE V-NOTCH (FT)

SEALS



CONSULTANT



BEDFORD COUNTY, VIRGINIA

[illegible]

REV	DATE	DESCRIPTION	APP
PROJECT NO: 61034		PROJECT PH: REGULATORY REVIEW	
ISSUE DATE: JANUARY 12, 2009			
DESIGNED BY: DMH		DRAWN BY:MEW/REH/DWG	
CHECKED BY: CGH		SUBMITTED BY: DMH	

CIVIL

DETAILS

CS503