Note: Inve	vert Elevation	s indica	ited are	for Ini	formation F		nly and	should be	verified by t	he contractor	NA DE DIVISI R for project cor PIPES, I	ON OF REGION Instruction stak	F HIGF AL TIE reout.	IWAY R	ĨS										DOCU	T REFERENCE NO. R-5861 MENT NOT CONS S ALL SIGNATUR	SHEET NO. 3D-1 SIDERED FINAL SES COMPLETED
LINE & STATION	OFFSET STRUCTURE NO.	TOP ELEVATION	INVERT ELEVATION INVERT ELEVATION	% MINIMUM REQUIRED SLOPE	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC)				R.C. PIPE CLASS III		R.C. PIPE CLASS IV		PIPE AS NOTED STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE)		FRAME, GRATES, AND HOOD STANDARD 840.03	CONCRETE TRANSITIONAL SECTION 840.15 STD. 840.16	.17 OR 840.26 .18 OR 840.27 .19 OR 840.28	FLAT GRATES SID. 840.20 GRATES STD. 840.22 I TWO GRATES STD. 840.24 O FLAT GRATES. STD. 840.29	.IN. FT. STD. 840.30 STD. 840.13 2	E (BICYCLE SAFE) SP DETAIL 2C-6 STD. 840.54	STD 14" CONCRETE PAVED DITCH SY)		S NO. & SIZE	lG, C.Y. STD. 840.71	C.Y. STD. 840.72	C.B. N.D.I. D.I. G.D.I. G.D.I.(N.S.) J.B. M.H. T.B.D.I. T.B.J.B.	BBREVIATIONS CATCH BASIN NARROW DROP INL DROP INLET GRATED DROP INL (NARROW SLOT) JUNCTION BOX MANHOLE TRAFFIC BEARING DROP INLET TRAFFIC BEARING JUNCTION BOX
SIZE THICKNESS OR GAUGE	FROM			12	" 15" 18" 24	." 30" 36" 42'	- 48" . DO NOT USE RCP-III	DO NOT USE CSP DO NOT USE CAAP DO NOT USE HDPE, PP, OR PVC	' 15" 18" 24" 30"	36" 42" 48" 12" ·	15" 18" 24" 30" 36" 42	2" 48" Trenchless Installati Welded Steel	CU. YARDS CU. YARDS	5.0' THRU 10.0' >	TYPE OF GRATE	DROP INLET CATCH BASIN D.I. STD. 840.14 OR STD. D.I. FRAME AND GRATE:	G.D.I. TYPE "A" STD. 840 G.D.I. TYPE "B" STD. 840 G.D.I. TYPE "D" STD. 840	G.D.I. FRAME WITH TWO G.D.I. FRAME WITH TWO G.D.I. (N.S.) FRAME WITH G.D.I. (N.S.) FR. WITH TW	DRIVEWAY DROP INLET D.I. IN APPROACH SLAB J.B. STD. 840.31 OR 840.3 TBJB STD. 840.34	T.B.D.I. STD. 840.36 STEEL GRATE AND FRAM M.H. FRAME AND COVER AD HIST JR	ADJUST CB ADJUST CB ADJUST DI BERM DRAINAGE OUTLE	CONV DI TO JBMH CONV JB TO OTCB CONV CB TO JB	OTCB Std 840.04 or 840.0 FLOWABLE FILL (CY) DRAINAGE PIPE ELBOM	CONC. & BRICK PIPE PLI	CONC. COLLARS CL. "B"	PIPE REMOVAL LIN. FT.	REMARKS
-L_DET1- - Y12- 32+62.38 - L- 22+73.49 - L- 22+73.28 - L- 22+73.28 L_DET1- 19+77.00	LT D1-1 LT D1-4 D1-5 -38 LT D1-5 LT D1-5 D1-6 19 RT D1-6	1764.1 1764.1 1758.8	724.3 1706.7 759.9 1759.0 759.0 1755.8	0.4%	88 20 92									0.1			1								0.4465	88 29 92	
L_DET1- 19+77.00 - L- 26+52.70 - L- 26+52.70 - DR2- 11+04.44 - L- 26+52.70	RT D1-6 D1-7 -16 LT D1-8 D1-9 LT D1-8 D1-9 D1-9 RT D1-25 D1-2 -16 LT D1-9 D1-9	1777.2 17 6 1777.2	755.8 1738.8 772.3 1764.0		84 88 20												1								0.3999		
L_DET1- 27+92.76 L_DET1- 27+92.77 -L- 33+30.21 -L- 33+30.21 L_DET1- 31+15.00 L_DET1- 31+15.00	19 RT D1-10 RT D1-10 D1-1 -37 LT D1-11 LT D1-11 D1-1 10 RT D1-12 RT D1-12 D1-12	1753.3 2 17 1745.1	772.1 1740.4 740.4 1740.3 738.5 1738.4	0.7%	324	24																				0 324 SPECIAL DETAIL 2 24 20	PC-6
L_DET1- 31+31.74 L_DET1- 31+31.74 - Y12- 32+62.38 - Y12- 32+62.38 L_DET1- 34+07.34	10 RT D1-19 RT D1-19 D1-2 -30 LT D1-13 LT D1-13 D1-2 10 RT D1-22 RT D1-22 D1-1	1600.4 2 17 1732.1	737.4 1733.7 732.9 1728.8 728.8 1726.3	0.5%	44		88																			88 44 52	
L_DET1- 34+07.34 DET1- 36+21.34 DET1- 36+21.34 - Y12- 32+62.38 - Y12- 32+62.38 - L- 40+42.04	RT D1-22 D1-1 18 RT D1-21 D1-1 RT D1-21 D1-1 D1-1 -20 LT D1-15 D1-1 LT D1-15 D1-1 D1-1	1733.4 5 17 1600.4 6 17	728.8 1726.3 730.6 1730.1 729.8 1725.8 720.0 1719.2	0.5%	52 140 72																				0.656	32 140 72 12	
-L_DET2 -L-86+00.00 -L-86+00.00 _DET2-26+35.36 _DET2-31+62.00 _DET2-31+62.00 L_DET2-32+10	-17 LT D2-1 LT D2-1 D2-2 -18 LT D2-6 -32 LT D2-4 LT D2-4 D2-5 -30 LT D2-7	1739.3	663.2 1657.4 735.1 1732.8		64 36 64 64	84																	1 1			64 36 SPECIAL DETAIL 2 84	2C-10
-L_DET3 DET3- 16+82.82 DET3- 16+82.82 DET3- 18+06.72	-30 L1 D2-7 -22 LT D3-4 LT D3-4 D3-5 -34 LT D3-6	1657.6	647.0 1637.1	0.5%	104 36									5.0 0.7												104 36	
-L_DET4 DET4- 13+36.26 DET4- 15+09.75 DET4- 15+09.75 DET4- 16+13.00 r_DR19- 11+08.10	21 RT D4-4 38 RT D4-1 RT D4-1 D4-2 -64 LT D4-3 RT D4-15 D4-1	6 16	656.1 1653.7 665.5 1664.9	1.8%	40 68	104 20								5.0 4.0											0.656	40 123 68 105	
T_DR19- 11+08.10 _DET4- 27+53.47 _DET4- 27+53.47 HEET TOTALS	RT D4-4 D4-1 38 RT D4-10 RT D4-10 D4-10	1725.4	719.8 1719.6 722.7 1719.8		68 56 0 852 708	0 116 148							1	7 123 47				1					1 0 0 TOTAL		2.1584	68 56 1864	

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