

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Symmetrical Parabola	PVC	T 9+75.00	689.70	240	-1.13%	3.95%	47	1.52	
	POVC	T 10+00.00	689.49						
	VLOW	T 10+28.30	689.40						
	POVC	T 10+50.00	689.45						
	PVI	T 10+95.00	688.35						
	POVC	T 11+00.00	689.95						
	POVC	T 11+50.00	690.97						
	POVC	T 12+00.00	692.52						
	PVT	T 12+15.00	693.09						
	PVT	T 12+15.00	693.09						
POVT	T 12+50.00	694.47							
POVT	T 13+00.00	696.45							
POVT	T 13+50.00	698.42							
POVT	T 14+00.00	700.40							
PVC	T 14+05.20	700.60	130	3.95%	-0.32%	30	-0.69	318	
PVC	T 14+05.20	700.60							
POVC	T 14+50.00	702.04							
PVI	T 14+70.20	703.16							
POVC	T 15+00.00	702.87							
VHIGH	T 15+25.49	702.97	225	-0.32%					
PVT	T 15+35.20	702.96							
PVT	T 15+35.20	702.96							
POVT	T 15+50.00	702.91							
POVT	T 16+00.00	702.75							
EQNBK	POVT	T 16+25.50	702.67	225	-0.32%				
EQNAHD	POVT	T 16+25.00	702.67						
Linear	POVT	T 16+50.00	702.59						
	POVT	T 17+00.00	702.43						
	POVT	T 17+50.00	702.27						
	PVC	T 17+60.00	702.24						
	PVC	T 17+60.00	702.24	150	-0.32%	1.86%	69	0.41	
VLOW	T 17+81.98	702.20							
POVC	T 18+00.00	702.23							
PVI	T 18+35.00	702.00							
POVC	T 18+50.00	702.54							
POVC	T 19+00.00	703.21	95	1.86%					
PVT	T 19+10.00	703.39							
PVT	T 19+10.00	703.39							
POVT	T 19+50.00	704.13							
POVT	T 20+00.00	705.06							
Symmetrical Parabola	PVC	T 20+05.00	705.16	220	1.86%	7.16%	41	1.46	
	POVC	T 20+50.00	706.24						
	POVC	T 21+00.00	708.01						
	PVI	T 21+15.00	707.20						
	POVC	T 21+50.00	710.39						
POVC	T 22+00.00	713.36	70	7.16%					
PVT	T 22+25.00	715.08							
PVT	T 22+25.00	715.08							
POVT	T 22+50.00	716.87							
PVC	T 22+95.00	720.09							
Symmetrical Parabola	PVC	T 22+95.00	720.09	130	7.16%	-0.51%	17	-1.25	206
	POVC	T 23+00.00	720.44						
	POVC	T 23+50.00	723.14						
	PVI	T 23+60.00	724.75						
	POVC	T 24+00.00	724.36						
VHIGH	T 24+16.32	724.44	95	-0.51%					
PVT	T 24+25.00	724.42							
PVT	T 24+25.00	724.42							
POVT	T 24+50.00	724.29							
POVT	T 25+00.00	724.03							
Symmetrical Parabola	PVC	T 25+20.00	723.93	90	-0.51%	-5.28%	19	-0.54	271
	POVC	T 25+50.00	723.54						
	PVI	T 25+65.00	723.70						
	POVC	T 26+00.00	721.82						
	PVT	T 26+10.00	721.32						
Linear	PVT	T 26+10.00	721.32	85	-5.28%				
	POVT	T 26+50.00	719.21						
	PVC	T 26+95.00	716.83						
	PVC	T 26+95.00	716.83						
	POVC	T 27+00.00	716.57						
Symmetrical Parabola	POVC	T 27+50.00	714.14	270	-5.28%	-1.38%	69	1.32	
	POVC	T 28+00.00	712.08						
	PVI	T 28+30.00	709.70						
	POVC	T 28+50.00	710.38						
	POVC	T 29+00.00	709.03						
	POVC	T 29+50.00	708.05						
	PVT	T 29+65.00	707.83						
	PVT	T 29+65.00	707.83						
Linear	POVT	T 30+00.00	707.35	65	-1.38%				
	PVC	T 30+30.00	706.93						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Symmetrical Parabola	PVC	T 30+30.00	706.93	140	-1.38%	-5.90%	31	-0.79	309
	POVC	T 30+50.00	706.59						
	PVI	T 31+00.00	705.96						
	POVC	T 31+50.00	702.94						
	PVT	T 31+70.00	701.83						
	PVT	T 31+70.00	701.83						
POVT	T 32+00.00	700.06							
POVT	T 32+50.00	697.11							
POVT	T 33+00.00	694.15							
POVT	T 33+50.00	691.20							
Symmetrical Parabola	POVT	T 34+00.00	688.25	350	-5.90%	1.40%	48	3.20	
	PVC	T 34+02.00	688.13						
	POVC	T 34+50.00	685.54						
	POVC	T 35+00.00	683.35						
	POVC	T 35+50.00	681.68						
	PVI	T 35+77.00	677.80						
	POVC	T 36+00.00	680.53						
	POVC	T 36+50.00	679.91						
	VLOW	T 36+84.85	679.78						
	POVC	T 37+00.00	679.81						
Symmetrical Parabola	POVC	T 37+50.00	680.23	252	1.40%	9.50%	31	2.55	
	PVCC	T 37+52.00	680.25						
	PVCC	T 37+52.00	680.25						
	POVC	T 38+00.00	681.30						
	POVC	T 38+50.00	683.17						
	PVI	T 38+78.00	682.02						
	POVC	T 39+00.00	685.85						
	POVC	T 39+50.00	689.33						
	POVC	T 40+00.00	693.61						
	PVT	T 40+04.00	693.99						
PVT	T 40+04.00	693.99							
POVT	T 40+50.00	698.39							
POVT	T 41+00.00	703.17							
POVT	T 41+50.00	707.39							
Linear	POVT	T 42+00.00	710.76						
	POVT	T 42+50.00	711.46						
	POVT	T 42+93.00	710.53						

### VERTICAL ALIGNMENT SHEET 9

PROJECT NAME: VERSHIRE-THETFORD

PROJECT NUMBER: STP 2911(I)

FILE NAME: pl0c224.dgn

PLOT DATE: 1/29/2013

PROJECT LEADER: PTS

DRAWN BY: JLS

DESIGNED BY: NULL

CHECKED BY: PTS

IPARM FILE NAME: IOC224\_I08

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