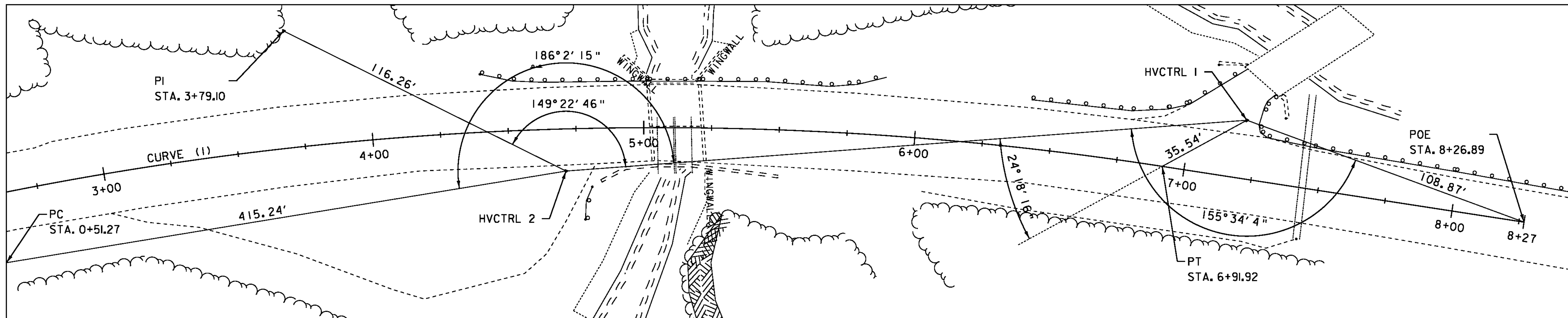
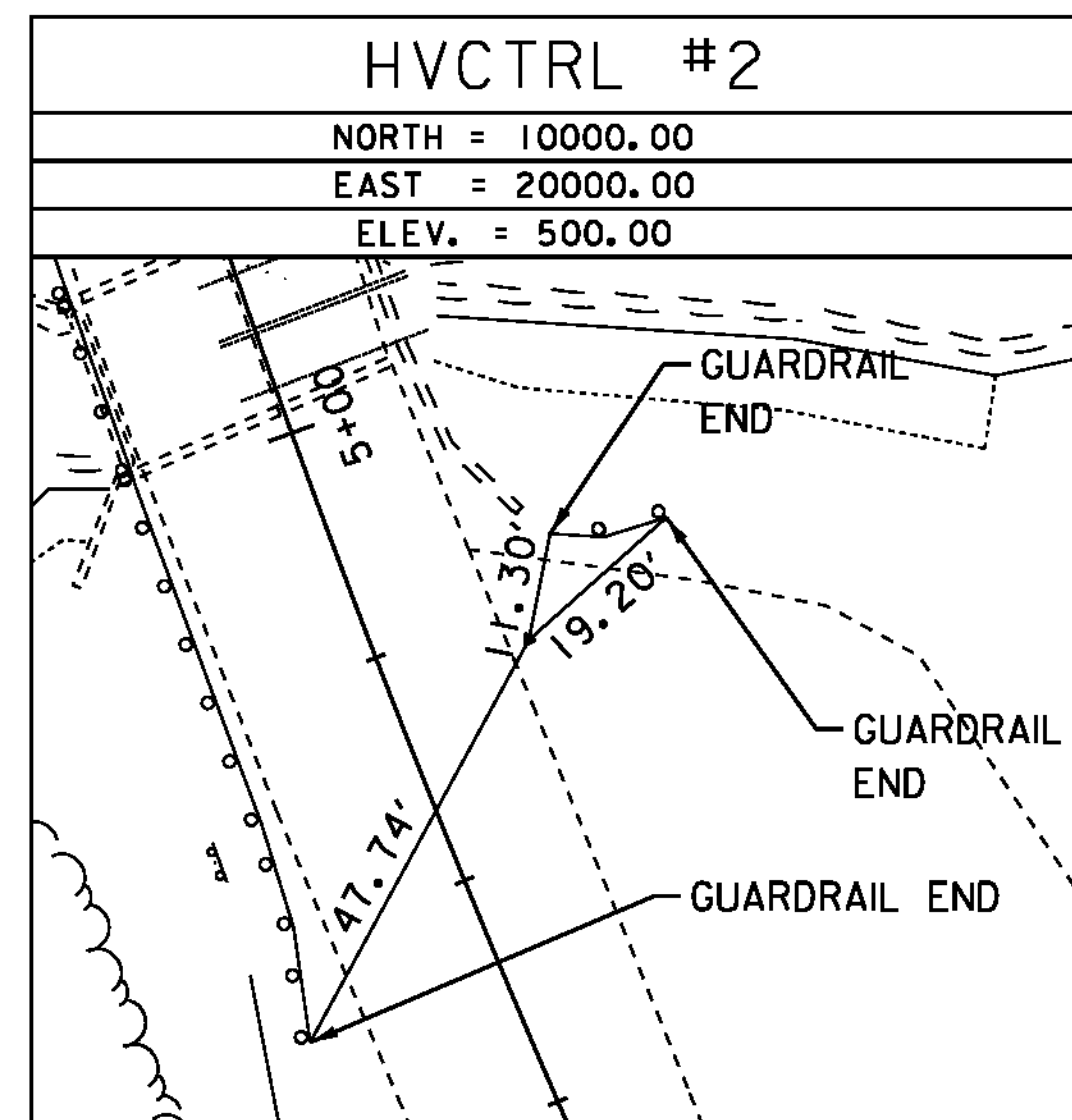
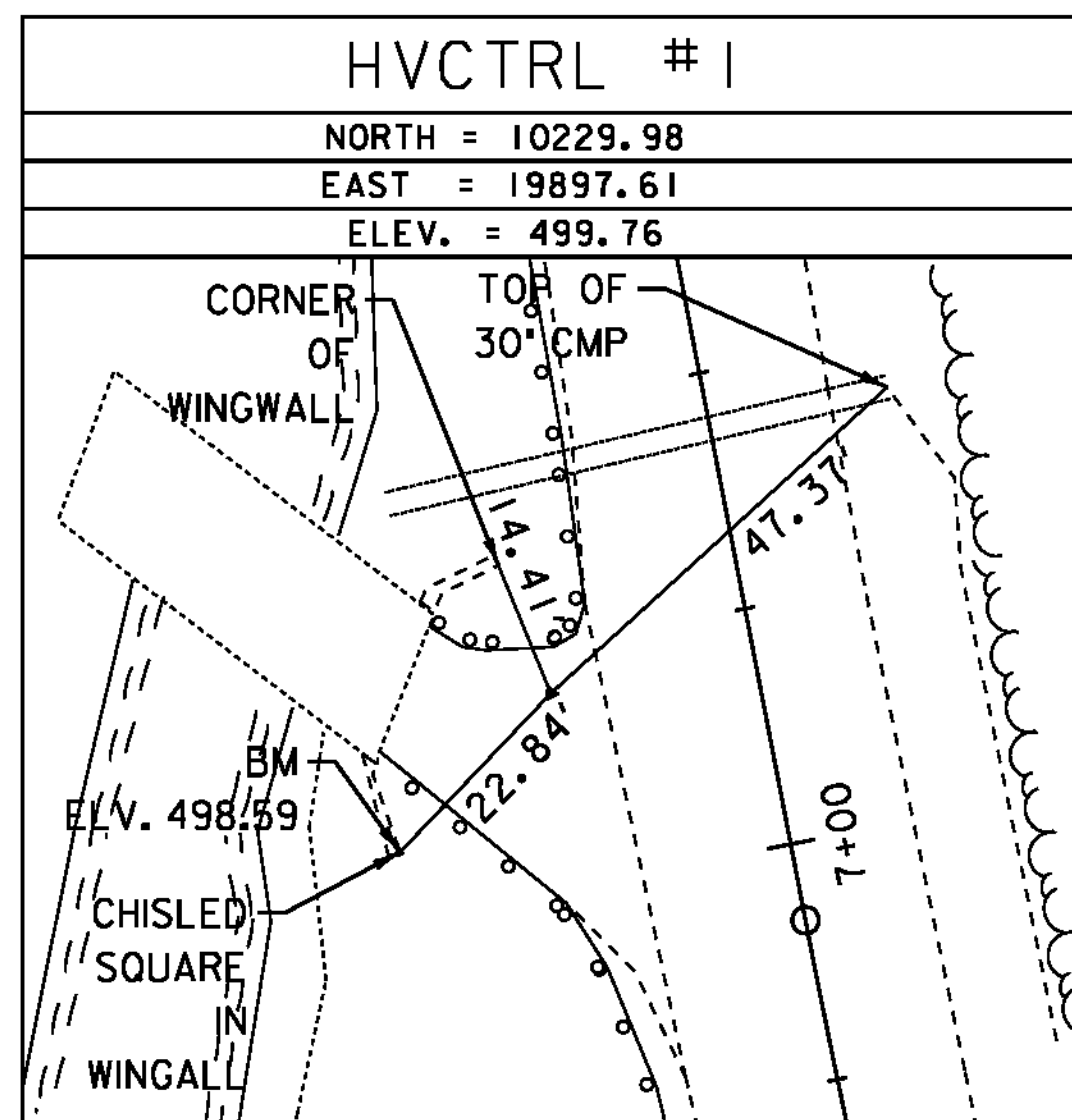


ALIGNMENT TIES



TRAVERSE TIES



GEOMETRIC COORDINATES

	STATION	NORTHING	EASTING
POB	STA. 0+00.00	9598.169	20235.038
POC	STA. 0+51.27	9636.900	20201.437
PI	STA. 3+79.10	9884.515	19986.594
POT	STA. 6+91.92	10206.343	19924.144
POE	STA. 8+26.89	10338.846	19898.433

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANT.
203.15	COMMON EXCAVATION	CY	1000
203.27	UNCLASSIFIED CHANNEL EXCAVATION	CY	80
203.31	SAND BORROW	CY	280
204.22	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	CY	1
204.30	GRANULAR BACKFILL FOR STRUCTURES	CY	450
208.30	COFFERDAM EXCAVATION, EARTH	CY	675
208.35	COFFERDAM EXCAVATION, ROCK	CY	75
208.40	COFFERDAM (STA. 4+92)	LS	1
208.40	COFFERDAM (STA. 5+30)	LS	1
301.15	SUBBASE OF GRAVEL	CY	480
301.40	SUBBASE, RAP	TON	450
404.65	EMULSIFIED ASPHALT	CWT	5
519.20	SHEET MEMBRANE WATERPROOFING, TORCH APPLIED	SY	220
525.33	BRIDGE RAILING, GALVANIZED NETC 2 RAIL	LF	68.66
529.15	REMOVAL OF STRUCTURE (640 SF - EST.)	EA	1
540.10	PRECAST CONCRETE STRUCTURE (32'-0" X 7'-5" X 37'-0" RIGID FRAME)	LS	1
613.10	STONE FILL, TYPE I	CY	17
613.12	STONE FILL, TYPE III	CY	195
616.26	PRECAST REINFORCED CONCRETE CURB, TYPE B	LF	160
621.21	HD STEEL BEAM GUARDRAIL, GALVANIZED	LF	131.0
621.60	ANCHOR FOR STEEL BEAM RAIL	EA	3
621.72	GUARDRAIL APPROACH SECTION, GALVANIZED NETC 2 RAIL	EA	4
621.80	REMOVAL AND DISPOSAL OF GUARDRAIL	LF	216
631.16	TESTING EQUIPMENT, CONCRETE	LS	1
635.11	MOBILIZATION/DEMOLITION	LS	1
649.31	GEOTEXTILE UNDER STONE FILL	SY	85
651.15	SEED	LB	5
651.18	FERTILIZER	LB	40

ITEM NO.	DESCRIPTION	UNIT	QUANT.
651.20	AGRICULTURAL LIMESTONE	TON	0.25
651.25	HAY MULCH	TON	0.25
651.35	TOPSOIL	CY	45
900.615	SPECIAL PROVISION (EROSION PREVENTION AND SEDIMENT CONTROL MEASURES) (N.A.B.I.)	DOLLAR	3000
900.615	SPECIAL PROVISION (MAINTENANCE OF EPSC PLAN) (N.A.B.I.)	DOLLAR	1500
900.630	SPECIAL PROVISION (MONITORING EPSC PLAN)	HR	40
900.645	SPECIAL PROVISION (EPSC PLAN)	LS	1
900.645	SPECIAL PROVISION (PEDESTAL WALL) (ABUTMENT NO. 1)	LS	1
900.645	SPECIAL PROVISION (PEDESTAL WALL) (ABUTMENT NO. 2)	LS	1
900.645	SPECIAL PROVISION (TRAFFIC CONTROL, ALL-INCLUSIVE)	LS	1

DATUM
 VERTICAL ASSUMED
 HORIZONTAL ASSUMED



TIE SHEET & ESTIMATED QUANTITIES

PROJECT NAME: WARREN
 PROJECT NUMBER: ER-STP 013-4 (36)

FILE NAME:
 PROJECT LEADER: JWT
 DESIGNED BY: RHB
 PLOT FILE:
 PLOT DATE: 11/4/2011
 DRAWN BY: BMB
 CHECKED BY: EPD
 SHEET 4 OF 19