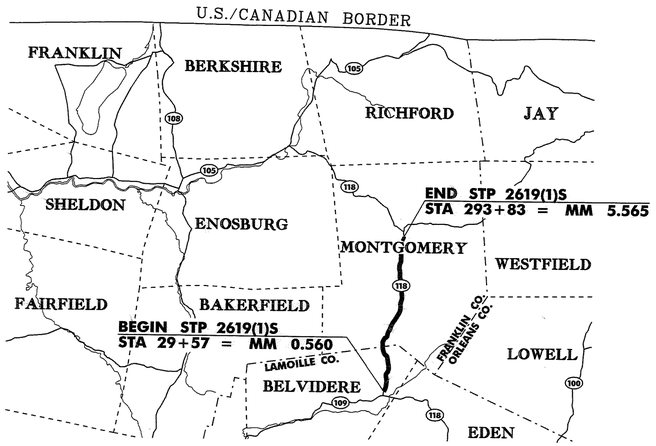
STATE OF VERMONT
AGENCY OF TRANSPORTATION

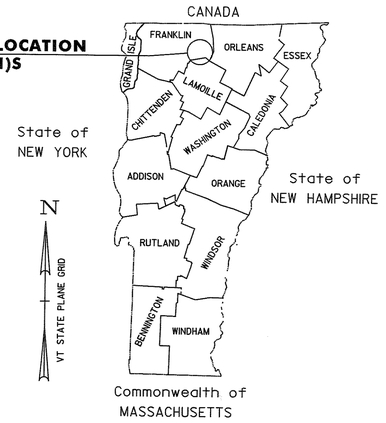
PROPOSED IMPROVEMENTS
TOWNS OF BELVIDERE, AND MONTGOMERY
COUNTIES OF LAMOILLE and FRANKLIN
VT ROUTE 118

BEGINNING IN THE TOWN OF BELVIDERE AT STA 29+57 (MM 0.560) AND EXTENDING NORTHERLY ALONG VT ROUTE 118 INTO THE TOWN OF MONTGOMERY FOR A DISTANCE OF APPROXIMATELY 41,849 FEET (7.926 MILES) TO STA 293+83, (MM 5.565).

STATION TO STATION DATA	LENGTH (FEET)	(MILES)
TOWN OF BELVIDERE STA 29+57 TO STA 154+23 (MM 0.560 TO MM 2.921)	12,466	2.361
TOWN OF MONTGOMERY STA 0+00 TO STA 293+83 (MM 0.000 TO MM 5.565)	29,383	5.565
PROJECT TOTALS	41,849	7.926

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES RECLAIMING AND RESURFACING OF THE EXISTING HIGHWAY WITH A COMBINATION OF WEARING AND BASE COURSES, NEW PAVEMENT MARKINGS, GUARD RAIL INSTALLATION, DRAINAGE IMPROVEMENTS AND INCIDENTAL ITEMS.





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TRAFFIC DATA

	ADT		DHV		FLEXIBLE ESAL'S	
	2007	2017	2007	2017	(2007-2017)	(2007-2027)
PROJECT BEGIN (MM 0.560) TO SADEN ROAD (MONT. MM 4.37)	630	720	220	230	139,000	326,000
SADEN ROAD (MONT. MM 4.37) TO NOTCH ROAD (VT 58, MM 5.59)	1,000	1,200	260	290	157,000	382,000

BELVIDERE - MONTGOMERY VT ROUTE 118, MM 0.560 TO MM 5.565	
BITUMINOUS CONCRETE PAVEMENT SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL	382,000
DESIGN NUMBER OF GYRATIONS	50
PERFORMANCE GRADED ASPHALT BINDER	PG 58-34

CONVENTIONAL SIGNS

COUNTY LINE
TOWN LINE
LIMITS OF ACCESS
POINT OF ACCESS
FENCE LINE
STONE WALL
TRAVELED WAY
GUARD RAIL
RAILROAD
SURVEY LINE
CULVERT
POWER POLE
TELEPHONE POLE
TREES
CONTROL OF ACCESS
PROPERTY LINE
R.O.W. TAKING LINE
SLOPE RIGHTS
TOP OF CUT
TOE OF SLOPE

RECORD PLANS

CONTRACTOR: PIKE INDUSTRIES, INC. – BERLIN, VT
RESIDENT ENGINEER: JON DAY
CONSTRUCTION BEGAN: APRIL 2, 2008
CONSTRUCTION COMPLETE: NOVEMBER 6, 2008
RECORD PLANS BY: JON DAY & C. PIERCE

I HEREBY CERTIFY THAT ALL THE CONSTUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY _____ RESIDENT ENGINEER
DATE 10-23-09

NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives.

DATUM
VERTICAL N/A
HORIZONTAL N/A

BY:

CIVIL ENGINEERING ASSOCIATES, INC.
P.O. BOX 485 SHELBURNE, VT 05482
802-985-2323 FAX: 802-985-2271 web: cea-vt.com

RIGHT-OF-WAY LIMITS, IF APPLICABLE, ARE PROVIDED SOLELY FOR THE CONVENIENCE OF THE STATE AND ITS CONTRACTOR DURING THE COURSE OF THIS PAVING PROJECT. ANY REFERENCES TO OFFSETS ON THESE PLANS ARE APPROXIMATE AND SHOULD NOT BE RELIED UPON FOR ANY OTHER PURPOSES.

UNLESS OTHERWISE NOTED, ALL DRAWINGS AND DETAILS ON THESE PLANS ARE DRAWN 'NOT TO SCALE'.

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

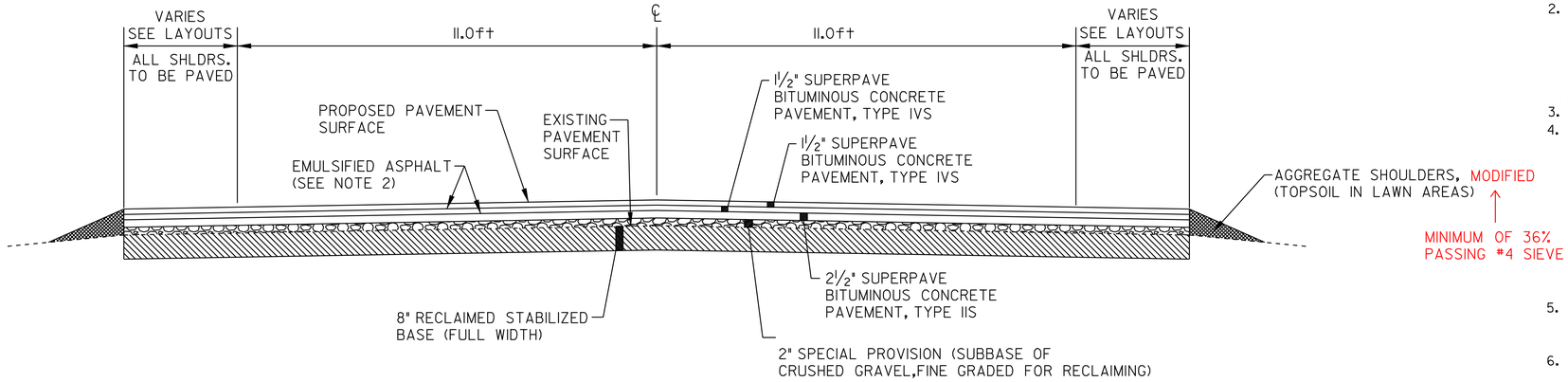
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED _____ DATE 10/27/09

PROJECT MANAGER : TED DOMEY

PROJECT NAME : **BELVIDERE – MONTGOMERY**
PROJECT NUMBER : **STP 2619(1)S**

SHEET **1** OF **33** SHEETS



RECLAIM TYPICAL SECTION

BELVIDERE

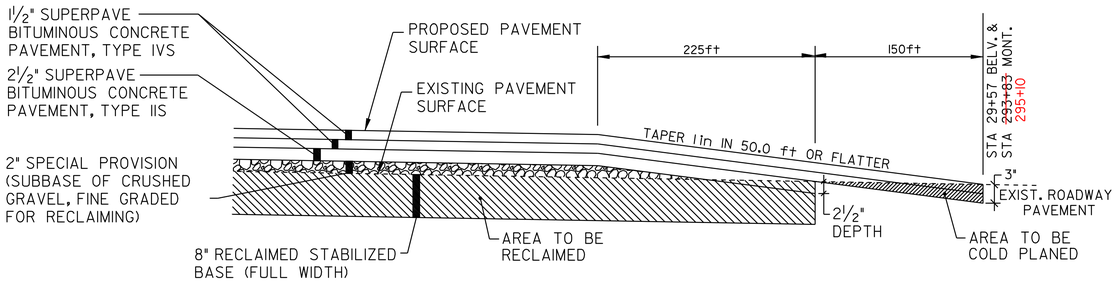
STA ~~29+57~~ 31+07 TO 154+23

MONTGOMERY

STA 0+00 TO 293+83

PROJECT PAVING LIMITS

TOWN & ROUTE	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING Tons	NOTES
BELVIDERE - VT ROUTE 118	29+57	154+23	VARIES -11.0FT-11.0FT- VARIES	1½in	--	RECLAIM 8", MIX 2" SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL, FINE GRADED, FOR RECLAIMING) IN RECLAIM AREA, PAVE w/ 2½" TYPE IIS, & 2 - LIFTS 1½" TYPE IVS
MONTGOMERY - VT ROUTE 118	0+00	293+83	VARIES -11.0FT-11.0FT- VARIES	1½in	--	RECLAIM 8", MIX 2" SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL, FINE GRADED FOR RECLAIMING), IN RECLAIM AREA, PAVE w/ 2½" TYPE IIS, & 2 - LIFTS 1½" TYPE IVS



– APPROACH AREA DETAIL –

BELVIDERE

STA 29+57 (BEGIN PROJECT)

MONTGOMERY

STA ~~293+83~~ (END PROJECT)
295+10

CONSERVATION SEED MIX

RURAL AREA - SEED MIXTURE

% WT.	lbs./ACRE	NAME	PUR%	GERM%
37.5	22.5	CREEPING RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3	RED TOP	95	90
15.0	9	BIRDSFOOT TREFOIL	98	85
5.0	3	ANNUAL RYEGRASS	95	85
100.0	60			

SEED MIXTURE:
SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED:
TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER:
FORMULA 10-20-10, TO BE USED WITH SEED , APPLIED AT THE RATE OF 500 lbs/ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA)

AGRICULTURAL LIMESTONE:
TO BE APPLIED AT THE RATE OF 2.0 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

HAY MULCH:
TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2.0 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

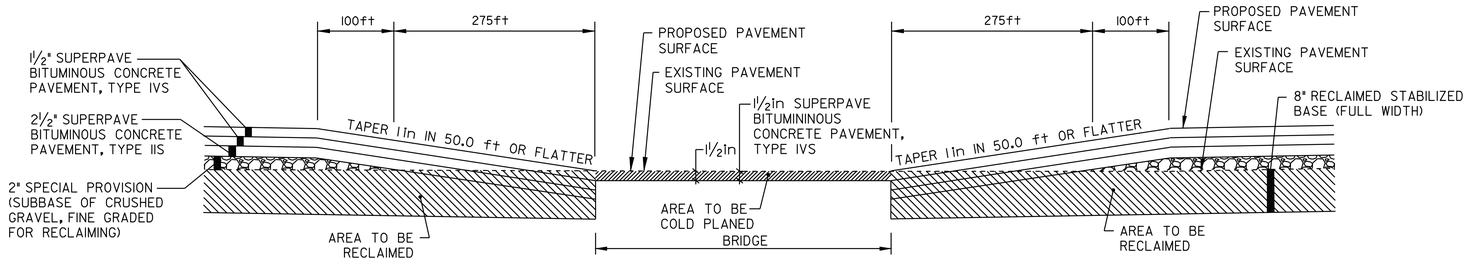
TOPSOIL:
TO BE USED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

NOTES

1. THE PAVEMENT WEARING COURSE SHALL BE TYPE IVS. ALL ASPHALT CEMENT USED IN THE BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 58-34.
2. EMULSIFIED ASPHALT, TYPE RS-1, SHALL BE APPLIED BETWEEN ALL COURSES OF PAVEMENT (NOT INCLUDING RECLAIMED SURFACES) AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER. EMULSIFIED ASPHALT, TYPE RS-1, SHALL BE APPLIED TO THE FINE GRADED RECLAIMED SURFACE FOR THE PURPOSE OF DUST CONTROL AT A RATE OF 0.10 TO 0.15 GAL/SY. QUANTITIES OF EMULSIFIED ASPHALT TO BE USED FOR DUST CONTROL HAVE BEEN ESTIMATED AT 0.125 GAL/SY. PAYMENT WILL BE UNDER ITEM 404.65 EMULSIFIED ASPHALT.
3. BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/-¼in (TOTAL THICKNESS).
4. PRIOR TO RECLAIMING, EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE RESIDENT ENGINEER WILL BE EXCAVATED TO A DEPTH OF 3 in +/- OR AS DIRECTED BY THE RESIDENT ENGINEER. EXCAVATED MATERIAL WILL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT, AS DIRECTED BY THE RESIDENT ENGINEER. THIS WORK WILL BE PAID FOR USING THE APPROPRIATE RENTAL ITEMS SUCH AS ALL PURPOSE EXCAVATOR RENTAL, TYPE I, POWER GRADER RENTAL, LOADER RENTAL, TYPE I, TRUCK RENTAL, AND POWER BROOM RENTAL, TYPE I. THE METHOD OF REMOVAL AND THE USE OF RENTAL ITEMS SHALL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO ANY WORK BEING DONE. MATERIAL REMOVED SHALL BE REPLACED WITH SUBBASE OF CRUSHED GRAVEL, FINE GRADED.
5. THREE FEET OF BACKING IS REQUIRED BEHIND THE FACE OF GUARD RAIL WITH 6ft POSTS. IF THIS CANNOT BE OBTAINED THEN 8ft POSTS SHALL BE USED.
6. STEEL BEAM GUARD RAIL WITH STEEL POSTS SHALL BE USED ON THIS PROJECT.
7. COLD PLANING TO BE COMPLETED ACCORDING TO THE DETAILS OR AS NOTED OTHERWISE ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGIN/END AND AT ALL SIDE ROAD APPROACHES AS DENOTED ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
8. ITEM 604.412 IS AN ESTIMATED QUANTITY AND SHALL BE PERFORMED AT LOCATIONS INDICATED ON THE LAYOUT SHEETS AND AS DIRECTED BY THE RESIDENT ENGINEER. ALL D.I.'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS LEVEL WITH THE SURROUNDING TERRAIN.
9. ALL EDGES OF PAVEMENT AND TREATED TIMBER CURB SHALL BE BACKED UP FULL HEIGHT WITH ITEM 402.12, AGGREGATE SHOULDERS AS DIRECTED BY THE RESIDENT ENGINEER.
10. ALL DRIVES SHALL RECEIVE A PAVED APRON OF 4 TO 10ft, AS DIRECTED BY THE RESIDENT ENGINEER. ANY REQUIRED EXCAVATION SHALL BE AS DIRECTED AND WILL BE PAID FOR UNDER THE APPLICABLE RENTAL ITEM(S). IF REQUIRED, A NEW SUBBASE SHALL BE CONSTRUCTED AND WILL BE PAID FOR UNDER ITEM 301.28, SUBBASE OF CRUSHED GRAVEL, FINE GRADED. A NEW BITUMINOUS SURFACE SHALL BE CONSTRUCTED AS DIRECTED AND WILL BE PAID FOR UNDER ITEM 490.30. ESTIMATED QUANTITIES OF THE ABOVE ITEMS HAVE BEEN INCLUDED TO PAY FOR THIS WORK.
11. ESTIMATED QUANTITIES OF ITEMS 608.25, ALL PURPOSE EXCAVATOR RENTAL, TYPE I, 608.37, TRUCK RENTAL, AND 608.40, LOADER RENTAL, TYPE I HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARD RAIL END SECTION FLARES WITH EXCAVATED DITCHING MATERIAL. AN ESTIMATED QUANTITY OF 203.30, EARTH BORROW HAS BEEN INCLUDED IN THE CASE THAT THE DITCHING MATERIAL IS NOT SUITABLE TO USE IN THE GUARD RAIL END SECTION FLARE. 25 CUBIC YARDS OF EARTH BORROW HAS BEEN ESTIMATED FOR EACH NEW GUARD RAIL END SECTION FLARE. GUARD RAIL END SECTION FLARES SHALL BE CAPPED WITH AN ESTIMATED 3" DEPTH OF AGGREGATE SHOULDERS UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 5 TONS OF ITEM 402.12, AGGREGATE SHOULDERS FOR EACH NEW GUARD RAIL END SECTION FLARE. ITEM 653.20, TEMPORARY EROSION MATTING, SHALL BE PLACED ON SLOPES GREATER THAN 1:6 CREATED BY THE GUARD RAIL END SECTION FLARE. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20, TEMPORARY EROSION MATTING FOR EACH NEW GUARD RAIL END SECTION FLARE.
12. COMPACTION, GRADING, AND CLEAN UP OF ITEM 301.28-SUBBASE OF CRUSHED GRAVEL, FINE GRADED, ITEM 402.12-AGGREGATE SHOULDERS, AND ITEM 651.35-TOPSOIL, IS TO BE INCLUDED IN THE CONTRACT PRICE OF EACH ITEM.
13. AN ESTIMATED THICKNESS OF 2" OF SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL, FINE GRADED FOR RECLAIMING), HAS BEEN INCLUDED FOR THE PROVISION OF IMPROVING GRADATION DEFICIENCIES AND/OR CORRECTING SUPERELEVATION, AS NECESSARY, OR AS DIRECTED BY THE RESIDENT ENGINEER. THIS MATERIAL SHALL BE RECLAIMED INTO THE RECLAIMED STABILIZED BASE. PAYMENT FOR THIS SECOND RECLAIMING OPERATION WILL BE INCIDENTAL TO ITEM 900.680 SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL, FINE GRADED FOR RECLAIMING).
14. STABILIZING AGENT FOR RECLAIMED STABILIZED BASE WILL BE WATER. PAYMENT SHALL BE INCIDENTAL TO ITEM 310.20.
15. AN ESTIMATED QUANTITY OF ITEM 619.17, YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE CULVERT ENDS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE RESIDENT ENGINEER.

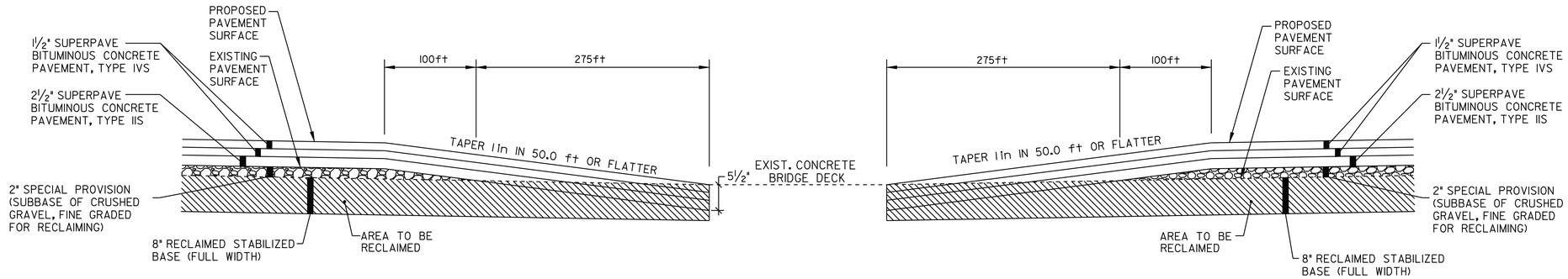
PROJECT TYPICAL SHEET #1

DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p06cl62.dgn
PRF FILE p06cl62tsl.1 DATE PLOTTED 03-NOV-2009
PROJ. NAME **BELVIDERE - MONTGOMERY**
PROJ. NO. **STP 2619(1)S**
SHEET **2** OF **33** SHEETS



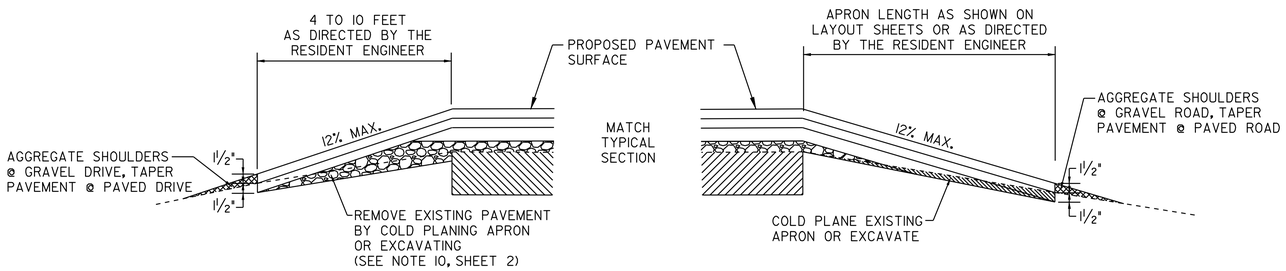
– COLD PLANING DETAIL @ BRIDGE –

MONTGOMERY
BRIDGE #12 – STA 157+15



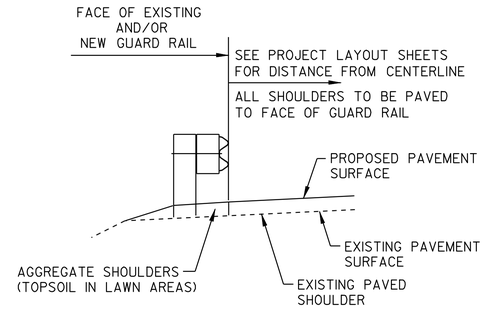
– BRIDGE APPROACH DETAIL –

MONTGOMERY
BRIDGE #11
STA 119+64 = MM 2.266



DRIVEWAY TRANSITION DETAIL @ RECLAIM AREAS

TOWN HIGHWAY TRANSITION DETAIL @ RECLAIM AREAS



– TYPICAL SECTION AT GUARD RAIL –

PROJECT TYPICAL SHEET #2

DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p06cl62.dgn
PRF FILE p06cl62ts2.i DATE PLOTTED 03-NOV-2009
PROJ. NAME **BELVIDERE – MONTGOMERY**
PROJ. NO. **STP 2619(1)S**
SHEET **3** OF **33** SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

APPROXIMATE SUMMARY OF QUANTITIES

R.O.W.	EMPLOYEE TRAINEESHIP	FULL CE	GOV'T PARTICIPATING BRIDGE	GOV'T PARTICIPATING ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
				1,900	1,900	CY	EARTH BORROW	203.30	25
				1	1	CY	TRENCH EXCAV. OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	EST
				1,550	1,550	SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	40
				250	250	TON	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.28	EST
				137,500	137,500	SY	RECLAIMED STABILIZED BASE	310.20	880
				5,100	5,100	TON	AGGREGATE SHOULDERS	402.12	EST
				2,030	2,030	CWT	EMULSIFIED ASPHALT	404.65	EST
				1	1	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	--
				46,000	46,000	TON	SUPERPAVE BITUMINOUS CONC. PAVE. (PG 58-34)	490.30	1,450
				1	1	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	EST
				1	1	LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	EST
				1	1	LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	EST
				1	1	LU	LONG. JOINT COMPACTION PAY ADJUST. (N.A.B.I.)	490.34	EST
			200		200	LB	REINFORCING STEEL	507.15	EST
			50		50	LF	REMOVAL OF EXISTING RAILING	525.10	0
			1		1	CY	REMOVAL OF CONCRETE OR MASONRY	529.25	EST
			1		1	CY	CONCRETE, CLASS A	541.22	EST
				240	240	LF	15" CPEP	601.0910	EST
				3	3	EA	REHABILITATION OF D.I., C.B. OR M.H. CLASS I	604.412	EST
				100	100	HR	POWER GRADER RENTAL	608.15	EST
				260	260	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST
				80	80	HR	POWER BROOM RENTAL, TYPE I	608.30	EST
				520	520	HR	TRUCK RENTAL	608.37	EST
				120	120	HR	LOADER RENTAL, TYPE I	608.40	EST
				10	10	MGAL	DUST CONTROL WITH WATER	609.10	--
				1,280	1,280	CY	STONE FILL, TYPE 1	613.10	8
				435	435	LF	TREATED TIMBER CURB	616.35	0
				6	6	EA	RELOCATE MAILBOX, SINGLE SUPPORT	617.10	EST
				10	10	EA	YIELDING MARKER POST	619.17	EST
				11,400	11,400	LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	40
				5,800	5,800	LF	STEEL BEAM GUARDRAIL, GALVANIZED W/8FT POSTS	621.205	12.5
				115	115	LF	H.D. STEEL BEAM GUARD RAIL, GALVANIZED	621.21	0
				69	69	EA	MANUFACTURED TERMINAL SECTION, FLARED	621.50	--
				20	20	EA	ANCHOR FOR STEEL BEAM RAIL	621.60	--
				19,750	19,750	LF	REMOVAL AND DISPOSAL OF GUARD RAIL	621.80	162.5
				1,500	1,500	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST
				5,000	5,000	HR	FLAGGERS	630.15	EST
		1			1	LS	FIELD OFFICE, ENGINEERS	631.10	--
		1			1	LS	TESTING EQUIPMENT, CONCRETE	631.16	--
		1			1	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	--

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COLD PLANING - BITUMINOUS PAVEMENT
500	SY	BELVIDERE - BEGIN PROJECT
70	SY	MONTGOMERY - BRIDGE #12
500	SY	MONTGOMERY - END PROJECT
390	SY	TOWN HIGHWAYS
50	SY	DRIVES
40	SY	ROUNDING
1,550	SY	TOTAL
		SUPERPAVE BIT. CONCRETE PAVEMENT (PG 58-34)
		TYPE IVS (WEARING)
3,640	TON	BELVIDERE
8,410	TON	MONTGOMERY
		TYPE IVS (BINDER)
3,640	TON	BELVIDERE
8,410	TON	MONTGOMERY
		TYPE IIS (BASE)
6,060	TON	BELVIDERE
14,020	TON	MONTGOMERY
220	TON	TOWN HIGHWAYS
150	TON	DRIVES
1,450	TON	ROUNDING
46,000	TON	TOTAL

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL, FINE GRADED FOR RECLAIMING)
4,700	TON	BELVIDERE RECLAIM SECTION
10,900	TON	MONTGOMERY RECLAIM SECTION
15,600	TON	ESTIMATED TOTALS
		SUBBASE OF CRUSHED GRAVEL, FINE GRADED
250	TON	ESTIMATED QUANTITIES FOR DRIVES/TH'S
		RECLAIMED STABILIZED BASE
41,050	SY	BELVIDERE
95,570	SY	MONTGOMERY
880	SY	ROUNDING
137,500	SY	TOTAL
		TEMPORARY EROSION MATTING
2,600	SY	DITCHING
1,725	SY	GUARD RAIL END SECTIONS
4,325	SY	TOTAL
		EMULSIFIED ASPHALT
580	CWT	USED AS TACK COAT
1,450	CWT	USED FOR DUST CONTROL
2,030	CWT	TOTAL

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS			EQUATIONS +	EQUATIONS -	FEET	MILES	REMARKS

TOTALS

QUANTITY SHEET #1

PROJECT NAME **BELVIDERE - MONTGOMERY** p06cl62.dgn
PROJECT NUMBER **STP 2619(1)S** p06cl62qsl.i

DATE PLOTTED 03-NOV-2009
SHEET **4** OF **33** SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 2

APPROXIMATE SUMMARY OF QUANTITIES

R.O.W.	EMPLOYEE TRAINEESHIP	FULL CE	GOV'T PARTICIPATING BRIDGE	GOV'T PARTICIPATING ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
		1			1	LU	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.25	EST
	520				520	HR	EMPLOYEE TRAINEESHIP	634.10	EST
				1	1	LS	MOBILIZATION/DEMOBILIZATION	635.11	EST
				1	1	LS	TRAFFIC CONTROL	641.10	EST
				83,700	83,700	LF	DURABLE 4 IN WHITE LINE, THERMOPLASTIC	646.402	--
				73,400	73,400	LF	DURABLE 4 IN YELLOW LINE, THERMOPLASTIC	646.412	--
				60	60	LF	DURABLE 24 IN STOP BAR, THERMOPLASTIC	646.482	--
				12	12	EA	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	--
				167,400	167,400	LF	TEMPORARY 4 IN WHITE LINE, PAINT	646.602	EST
				146,800	146,800	LF	TEMPORARY 4 IN YELLOW LINE, PAINT	646.612	EST
				120	120	LF	TEMPORARY 24 IN STOP BAR, PAINT	646.682	EST
				24	24	EA	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	--
				1,500	1,500	EA	LINE STRIPING TARGETS	646.76	EST
				5,750	5,750	SY	GEOTEXTILE UNDER STONE FILL	649.31	16
				120	120	LB	SEED	651.15	EST
				1,000	1,000	LB	FERTILIZER	651.18	EST
				4	4	TON	AGRICULTURAL LIMESTONE	651.20	EST
				4	4	TON	HAY MULCH	651.25	EST
				100	100	CY	TOPSOIL	651.35	EST
				4,325	4,325	SY	TEMPORARY EROSION MATTING	653.20	EST
				37	37	SF	TRAFFIC SIGNS, TYPE A	675.20	0.73
							- BEGIN OPTION ITEMS -		
				90	90	LF	FLANGED CHANNEL SIGN POSTS	675.301	EST
				90	90	LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	EST
							- END OPTION ITEMS -		
				13	13	EA	REMOVING SIGNS	675.50	--
				1	1	EA	ERECTING SALVAGED SIGNS	675.60	--
				79	79	EA	DELINEATORS WITH STEEL POST	676.10	EST
				1	1	EA	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	EST
			50		50	LF	SPECIAL PROVISION (BRIDGE RAILING REPAIR, TYPE I)	900.640	0
				15,600	15,600	TON	SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL, FINE GRADED FOR RECLAIMING)	900.680	EST

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

STATIONS FROM	STATIONS TO	PAVEMENT WIDTHS			EQUATIONS +	EQUATIONS -	FEET	MILES	REMARKS

TOTALS

QUANTITY SHEET #2

PROJECT NAME **BELVIDERE - MONTGOMERY** p06cl62.dgn
PROJECT NUMBER **STP 2619(1)S** p06cl62qs2.l

DATE PLOTTED 03-NOV-2009
SHEET **5** OF **33** SHEETS

ITEM DETAIL SUMMARY SHEET 1

LOCATION			MISCELLANEOUS ITEMS													DRAINAGE ITEMS					GUARD RAIL ITEMS												REMARKS
STA	STA	POS.		203.30	301.28	402.12	617.10	653.20								604.412	NEW PIPE				616.35	619.17	621.20	621.205	621.21	621.50	621.60	621.80	676.10	900.680		
				EARTH BORROW	SUBBASE OF CRUSHED GRAVEL, FINE	AGG. SHOULD.	RELOCATE MAILBOX SINGLE SUPPORT	TEMP. EROSION MATTING								REHAB. D.I. CLASS I	DIA.	CSP (0.064)	RCP	CPEP	TREATED TIMBER CURB	YIELDING MARKER POSTS	STEEL BEAM G.R.	STEEL BEAM G.R. 8ft POSTS	HEAVY DUTY S.B. G.R.	MANUF. TERMINAL SECTION, FLARED	ANCHOR FOR S.B. RAIL	REMOVE & DISP. OF GUARD RAIL	DELIN. w/STEEL POSTS	SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL, FINE GRADED FOR RECLAIMING)		
				CY	TON	TON	EA	SY								EA	in	LF	LF	LF	LF	EA	LF	LF	LF	EA	EA	LF	EA	TON		
BELVIDERE																																
29+57	154+23	LT&RT			50	1,400																								4,700		ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.
31+88		RT					~~1~~																									~~RELOCATE MAILBOX, SINGLE SUPPORT.~~
70.5	58																					687.5						887.5				
31+~~88~~	40+~~63~~	RT		50		10		50														~~800~~	125		2		~~875~~	2			REPLACE EXISTING STEEL BEAM GUARD RAIL.
03	83																						375					287.5				
78+~~00~~	80+~~75~~	RT		50		10		50														175	~~200~~		2		~~275~~	2			REPLACE EXISTING STEEL BEAM GUARD RAIL.
62.5	37.5																					212.5										
78+~~50~~	81+~~25~~	LT		50		10		50														~~200~~			2		275	2			REPLACE EXISTING STEEL BEAM GUARD RAIL.
62	39																					325										
102+~~60~~	106+~~35~~	RT		50		10		50														~~300~~			2		375	2			REPLACE EXISTING STEEL BEAM GUARD RAIL.
03	03																															
104+~~00~~	106+~~00~~	LT		50		10		50															125		2		200	2			REPLACE EXISTING STEEL BEAM GUARD RAIL.
115+04	79																					87.5										
~~114+94~~	119+~~69~~	LT		50		10		50														~~400~~	325		2		475	2			REPLACE EXISTING STEEL BEAM GUARD RAIL.
5+83.5	126+21																					962.5					1012.5					
116+05	~~125+80~~	RT		50		10		50														~~900~~			2		~~975~~	2			REPLACE EXISTING STEEL BEAM GUARD RAIL.
65	65																															
149+~~37~~	153+~~37~~	LT		50		10		50															325		2		400	2			REPLACE EXISTING STEEL BEAM GUARD RAIL.
BELV.	MONT.																					612.5										
150+~~42~~	~~4+20~~	RT		50		10		50														~~725~~	112.5		2		800	2			REPLACE EXISTING STEEL BEAM GUARD RAIL.
58	3+85																															
MONTGOMERY																					10											
0+00	293+83	LT&RT			200	3,305																								10,900		ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.
63	63																					137.5										
10+~~89~~	15+~~88~~	RT		50		10		50														~~425~~	287.5		2		500	2			REPLACE EXISTING STEEL BEAM GUARD RAIL.
70	19+85																					175										
13+~~89~~	~~20+14~~	LT		50		10		25														~~607.5~~	432.5		~~1~~ 2	~~2~~ 0	625	2			REPLACE EXISTING STEEL BEAM GUARD RAIL. ~~INSTALL B.E.T. @ STA 20+14,~~ REDUCED POST SPACING @ STA 16+20, SEE DETAILS, SHEET 32.
38.5	51																					575	882.5				12.5					
22+~~66~~	37+~~66~~	LT		50		10		50													435	~~920~~	525		2		1,~~500~~	2			REPLACE EXISTING STEEL BEAM GUARD RAIL & TIMBER CURB, REDUCED POST. SPACING REQUIRED @ STA 35+25.
26+30		RT														1				10												REHAB D. I.
31+32		RT														1																REHAB D. I.
36.5	50																					137.5										
58+~~57~~	63+~~57~~	LT		50		10		50														~~425~~	300		2		500	2			REPLACE EXISTING STEEL BEAM GUARD RAIL.
57	70																						325				4					
71+~~77~~	77+~~90~~	RT		50		10		25									15			30	50	250	575		~~1~~ 2	~~2~~ 0	61~~2~~.5	2			REPLACE EXISTING STEEL BEAM GUARD RAIL. ~~INSTALL BURIED END TERMINAL~~ W/CULVERT @ STA 71+77, SEE DETAIL SHEET 32.
71+76	13																						287.5									
~~72+03~~	79+~~40~~	LT		50		10											15			30	0	487.5	737.5		1	~~4~~ 2	737.5	2			REPLACE EXISTING STEEL BEAM GUARD RAIL. INSTALL BURIED END TERMINALS ~~1~~ @ STA 72+03 (W/CULVERT) & 79+40 (W/O CULVERT), SEE DETAIL SHEET 32.
68.5	31																						387.5									
81+~~80~~	87+~~42~~	RT		50		10		25									15			30	60	137.5	525		~~1~~ 2	~~2~~ 0	562.5	2			REPLACE EXISTING STEEL BEAM GUARD RAIL. ~~INSTALL BURIED END TERMINAL~~ W/CULVERT @ STA 81+80, SEE DETAIL SHEET 32.
68.5	31																						162.5									
83+~~84~~	88+~~46~~	LT		50		10		25									15			30	50	262.5	425		~~1~~ 2	~~2~~ 0	462.5	2			REPLACE EXISTING STEEL BEAM GUARD RAIL. ~~INSTALL BURIED END TERMINAL~~ W/CULVERT @ STA 83+84, SEE DETAIL SHEET 32.
44	58																					275					412.5					
95+~~50~~	99+~~75~~	RT		50		10		50														~~350~~	62.5		2		~~425~~	2			REPLACE EXISTING STEEL BEAM GUARD RAIL.
11	62																						25									
99+~~20~~	101+~~70~~	LT		50		10		50														150	~~175~~		2		250	2			REPLACE EXISTING STEEL BEAM GUARD RAIL.
58	58																						225									
101+~~65~~	107+~~65~~	RT		50		10		50														300	~~525~~		2		600	2			REPLACE EXISTING STEEL BEAM GUARD RAIL.
07	72																					252										
104+~~18~~	108+~~80~~	LT		50		10		50														~~387.5~~	175		~~2~~ 1	1	462.5	2			REPLACE EXISTING STEEL BEAM GUARD RAIL.
111+93		RT														1	15			10		62.5						1				
117+40	118+90	LT		25		5		25														~~112.5~~	50		1		150	1			REPLACE EXISTING STEEL BEAM GUARD RAIL, ATTACH TO EXISTING BRIDGE APPROACH RAIL.
119+65	120+02	LT		25		5		25																	1		25	1			REPLACE EXISTING STEEL BEAM GUARD RAIL.
119+88	120+25	RT		25		5		25														52.5			1		37.5	1			REPLACE EXISTING STEEL BEAM GUARD RAIL.
62	39																					150										
149+~~55~~	151+~~30~~	RT		50		10		25									15			30	60	~~137.5~~	12.5		~~1~~ 2	~~2~~ 0	175	2			REPLACE EXISTING STEEL BEAM GUARD RAIL. ~~INSTALL BURIED END TERMINAL~~ W/CULVERT @ STA 149+55, SEE DETAIL SHEET 32.
SHEET SUB-TOTALS				1,175	250	4,940	~~1~~ 0	1,000								~~2~~ 3	15			~~150~~ 240	435	10	~~6,690~~ 6,467	~~4,137.5~~ 4,665	--	~~40~~ 45	~~14~~ 3	~~12,275~~ 12,339	~~47~~ 48	15,600		

ITEM DETAIL SUMMARY SHEET #1

DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p06cl62.dgn
PRF FILE p06cl62tdl.l DATE PLOTTED 03-NOV-2009 10
PROJ. NAME: **BELVIDERE – MONTGOMERY**
PROJ. NO.: **STP 2619(1)S**
SHEET **6** OF **33** SHEETS

ITEM DETAIL SUMMARY SHEET 2

LOCATION			MISCELLANEOUS ITEMS					DRAINAGE ITEMS					GUARD RAIL ITEMS										REMARKS
STA	STA	POS.	203.30 EARTH BORROW	301.28 SUBBASE OF CRUSHED GRAVEL, FINE	402.12 AGG. SHOULD.	617.10 RELOCATE MAILBOX SINGLE SUPPORT	653.20 TEMP. EROSION MATTING	604.412 REHAB. D.I. CLASS I	NEW PIPE DIA.	NEW PIPE CSP (0.064)	NEW PIPE RCP	NEW PIPE CPEP	616.35 TREATED TIMBER CURB	619.17 YIELDING MARKER POSTS	621.20 STEEL BEAM G.R.	621.205 STEEL BEAM G.R. 8ft POSTS	621.21 HEAVY DUTY S.B. G.R.	621.50 MANUF. TERMINAL SECTION, FLARED	621.60 ANCHOR FOR S.B. RAIL	621.80 REMOVE & DISP. OF GUARD RAIL	676.10 DELIN. w/STEEL POSTS	900.680 SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL, FINE GRADED FOR RECLAIMING)	
			CY	TON	TON	EA	SY	EA	in	LF	LF	LF	LF	EA	LF	LF	LF	EA	EA	LF	EA	TON	
MONTGOMERY CONT'D																							
156+42		LT				~~1~~																	RELOCATE MAILBOX, SINGLE SUPPORT
156+43	157+05	LT			5		25										32.5	1		50	1		ATTACH TO NEW BRIDGE RAIL @ STA. 157+05, COORD. WITH SHEET 31.
156+55	157+05	RT			5		25								27	32.5 ~~17.5~~		~~1~~	1	50	1		ATTACH TO NEW BRIDGE RAIL @ STA. 157+05, COORD. WITH SHEET 31.
157+30	157+92	LT			5		25								27		32.5	~~1~~	1	25	1		ATTACH TO NEW BRIDGE RAIL @ STA. 157+30, COORD. WITH SHEET 31.
157+30	157+92	RT			5		25										32.5	1		37.5	1		ATTACH TO NEW BRIDGE RAIL @ STA. 157+30, COORD. WITH SHEET 31.
21	21																						
166+~~19~~	171+~~19~~	RT	50		10		50								425			2		500	2		REPLACE EXISTING STEEL BEAM GUARD RAIL.
98	73															812.5							
166+~~95~~	175+~~70~~	LT	50		10		50									~~800~~		2		875	2		REPLACE EXISTING STEEL BEAM GUARD RAIL.
61	24															162.5				362.5			
178+~~53~~	182+~~27~~	RT	50		10		25		15			~~30~~			350	~~337.5~~		~~1~~ 2	~~2~~	~~375~~	2		REPLACE EXISTING STEEL BEAM GUARD RAIL. ~~INSTALL BURIED END TERMINAL~~ W/CULVERT @ STA 182+27, SEE DETAIL SHEET 32.
59.5	22															687.5				762.5			
178+~~53~~	186+~~03~~	LT	50		10	1	50								~~362.5~~	~~312.5~~		2		~~750~~	2		REPLACE EXISTING STEEL BEAM GUARD RAIL. RELOCATE MAILBOX, SINGLE SUPPORT @ STA 185+40.
7+14.5	89														432.5								
206+~~82~~	211+~~57~~	RT	50		10		50								~~420~~			2		387.5	2		REPLACE 2 SECTIONS OF EXISTING STEEL BEAM GUARD RAIL REDUCED POST SPACING REQUIRED @ STA 211+05, SEE DETAIL, SHEET 32.
64.5	2+02																						
214+~~22~~	221+~~60~~	RT	50		10	~~1~~	25		15			~~30~~			700			~~1~~ 2	~~2~~	737.5	2		REPLACE EXIST. S.B. GUARD RAIL. INSTALL ~~B.E.T. W/CULVERT @ STA 214+22~~, SEE DETAIL SHEET 32, RELOCATE MAILBOX SINGLE SUPPORT @ STA 221+60.
8+29	90																						
217+~~88~~	222+~~50~~	LT	50		10		25		15			~~30~~			425			~~1~~ 2	~~2~~	462.5	2		REPLACE EXISTING STEEL BEAM GUARD RAIL. ~~INSTALL BURIED END TERMINAL~~ W/CULVERT @ STA 217+88, SEE DETAIL SHEET 32.
3+34	46.5																						
232+~~91~~	235+~~04~~	RT	50		10		50								137.5			2		212.5	2		REPLACE EXISTING STEEL BEAM GUARD RAIL.
57	57																						
233+~~10~~	235+~~10~~	LT	50		10		50								125			2		200	2		REPLACE EXISTING STEEL BEAM GUARD RAIL.
9+18	93														700					775			
238+~~58~~	246+~~46~~	LT	50		10	~~1~~	50								~~712.5~~			2		~~787.5~~	2		REPLACE EXISTING STEEL BEAM GUARD RAIL, RELOCATE MAILBOX, SINGLE SUPPORT, STA 238+70.
5+15	89																						
254+~~49~~	257+~~24~~	LT	50		10		50								200			2		275	2		REPLACE EXISTING STEEL BEAM GUARD RAIL.
8+63	60+49																						
257+~~91~~	259+~~78~~	LT	50		10		50								112.5			2		187.5	2		REPLACE EXISTING STEEL BEAM GUARD RAIL.
4+35	3+35																						
263+~~67~~	272+~~67~~	LT	50		10	1	50								825			2		900	2		REPLACE EXISTING STEEL BEAM GUARD RAIL, RELOCATE MAILBOX, SINGLE SUPPORT, STA 269+90.
98	9+02														300	125							
273+~~25~~	278+~~25~~	LT	50		10	~~1~~	50								~~225~~	~~200~~		2		500	2		REPLACE EXISTING STEEL BEAM GUARD RAIL.
293+40		RT						~~1~~ 0															~~REHAB D.I.~~
SHEET SUB-TOTALS			700	--	160	~~5~~ 3	725	~~1~~ 0	15			~~90~~	--	--	4786.5 ~~4,670~~	1787.5 ~~1,650~~ 325	130 ~~115~~	~~29~~30	~~6~~ 2	300 7,~~31~~2.5	32	--	
ID#1 SUB-TOTALS			1,175	250	4,940	~~1~~	1,000	~~2~~ 3	15		240	~~150~~	435	10	467~~6,690~~	4,~~137.5~~ 2537.5	130 ~~115~~	~~40~~ 45	~~14~~ 3	12,~~275~~	~~47~~ 8	15,600	
PROJECT SUB-TOTALS			1,875	250	5,100	~~6~~ 3	1,725	3	15			240	435	10	11,~~360~~	5,~~787.5~~ 6452.5	115 ~~130~~	~~69~~ 75	~~20~~ 5	19,~~587.5~~	~~79~~ 80	15,600	
ROUNDING			25	--	--	--	--	--	--			--	--	--	40	12.5	130 ~~115~~	--	--	162.5	--	--	
PROJECT TOTALS			1,900	250	5,100	~~6~~ 3	1,725	3	15			240	435	10	11,400	5,~~800~~ 6452.5	115 ~~130~~	~~69~~ 75	~~20~~ 5	19,~~750~~	~~79~~ 80	15,600	

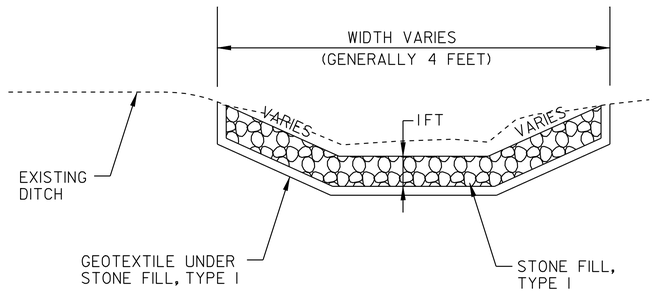
339
639
639

ITEM DETAIL SUMMARY SHEET #2

DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p06cl62.dgn
PRF FILE p06cl62ld2.l DATE PLOTTED 03-NOV-2009 10
PROJ. NAME: **BELVIDERE - MONTGOMERY**
PROJ. NO.: **STP 2619(1)S**
SHEET **7** OF **33** SHEETS

LOCATION				FEET OF DITCHING				MISC. ITEMS			REMARKS
				PERCENT GRADE				653.20	613.10	649.31	
SITE	STATION	STATION	POS.	0–1	1–2.5	2.5–10	>10	TEMP. EROS. MATT.	STONE FILL TYP. I	GEOT. UNDER STONE FILL	
								SY	CY	SY	
VT ROUTE 118, BELVIDERE											
DISTRICT #8											
1	55+10	59+00	RT	390							
2	59+00	66+10	LT		380	330		169	49	220	
3	72+15	77+75	LT	560							
4	123+65	133+00	LT		345	590		153	87	393	
5	144+30	149+40	LT			510			75	340	
6	144+30	150+30	RT			600			89	400	
VT ROUTE 118, MONTGOMERY											
7	18+00	43+60	RT	330		2,230			330	1,487	
8	55+80	71+80	RT		1,600			711			
9	78+00	81+80	RT			380			56	253	
10	92+50	95+00	LT&RT			500			74	333	
11	111+50	118+90	RT		410	330		182	49	220	
12	111+90	117+00	LT		290	220		129	32	147	
13	134+50	148+90	LT	800		640			95	427	
14	134+50	149+20	RT	800		670			99	447	
15	157+70	166+00	RT	830							
16	171+20	178+50	RT	730							
17	182+30	190+30	RT		800			355			
18	211+60	214+10	RT			250			37	167	
19	221+80	232+70	RT	320		770			114	513	
20	235+10	238+50	LT		340			151			
21	235+00	239+00	RT		400			178			
22	246+70	255+80	RT		910			404			
23	259+20	274+20	RT	1,500							
24	277+20	286+30	RT		330	580		147	86	387	
PROJECT SUBTOTALS				6,260	5,805	8,600		2,579	1,272	5,734	
ROUNDING				40	45	50		21	8	16	
PROJECT TOTALS				6,300	5,850	8,650		2,600	1,280	5,750	

SEE LAYOUT SHEETS FOR LOCATION CHANGES



DITCH DETAIL

NOT TO SCALE

NOTES:

1. PIPE INLET AND OUTLET AREAS, AND DITCH CLEANING THROUGH PROJECT, SHALL BE PERFORMED AT LOCATIONS INDICATED ON THIS SHEET AND AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE EQUIPMENT RENTAL ITEM(S).

2. ESTIMATED QUANTITIES OF TEMPORARY EROSION MATTING, SEED, AND STONE FILL TYPE I HAVE BEEN INCLUDED AS NEEDED. DITCHES WITH A GRADE LESS THAN 1 PERCENT SHALL BE SEEDED. TEMPORARY EROSION MATTING SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 1 AND 2½ PERCENT AND STONE FILL TYPE I SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 2½ AND 10 PERCENT.

DITCH CLEANING DETAIL SHEET

PROJECT : BELVIDERE - MONTGOMERY

PROJECT NO. : STP 2619(I)S

DESIGN FILE NAME: p06cl62.dgn

IPARM FILE NAME: p06cl62dcd.i

PLOT DATE: 03-NOV-2009

SURVEYED BY: CEA

SURVEY DATE:

SQUAD LEADER: BCE

DRAWN BY: PJM

SHEET: 8 OF 33

TEMPORARY 4in YELLOW LINE (PAINT)
DURABLE 4in YELLOW LINE (THERMOPLASTIC)

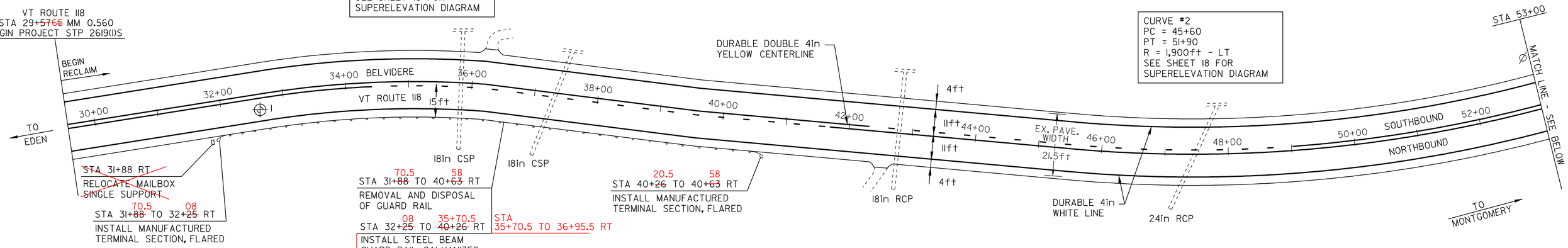
65STA 29+~~57~~ TO 34+~~30~~ 25 SOLID LT&RT
25STA 34+~~30~~ TO 4I+~~70~~ 57 SOLID LT & DASHED RT
57STA 4I+~~70~~ TO 42+~~20~~ I5 SOLID LT&RT
I5STA 42+~~20~~ TO 49+~~I0~~ 05 DASHED LT & SOLID RT
05STA 49+~~I0~~ TO 75+50 SOLID LT&RT

TEMPORARY 4in WHITE LINE (PAINT)
DURABLE 4in WHITE LINE (THERMOPLASTIC)

STA 29+~~57~~ TO 75+50 SOLID LT&RT
65

VT ROUTE II8
STA 29+~~5765~~ MM 0.560
BEGIN PROJECT STP 2619(I)S

CURVE #I
PC = 32+I0
PT = 37+50
R = 2,000ft - RT
SEE SHEET I8 FOR
SUPERELEVATION DIAGRAM



CURVE #2
PC = 45+60
PT = 5I+90
R = I,900ft - LT
SEE SHEET I8 FOR
SUPERELEVATION DIAGRAM

REMOVAL AND DISPOSAL OF GUARD RAIL
STA 3I+~~88~~ TO 40+~~63~~ RT
70.5 58

MANUFACTURED TERMINAL SECTION, FLARED
70.5 STA 3I+~~88~~ TO 32+~~25~~ RT 08
STA 40+~~26~~ TO 40+~~63~~ RT
20.5 58

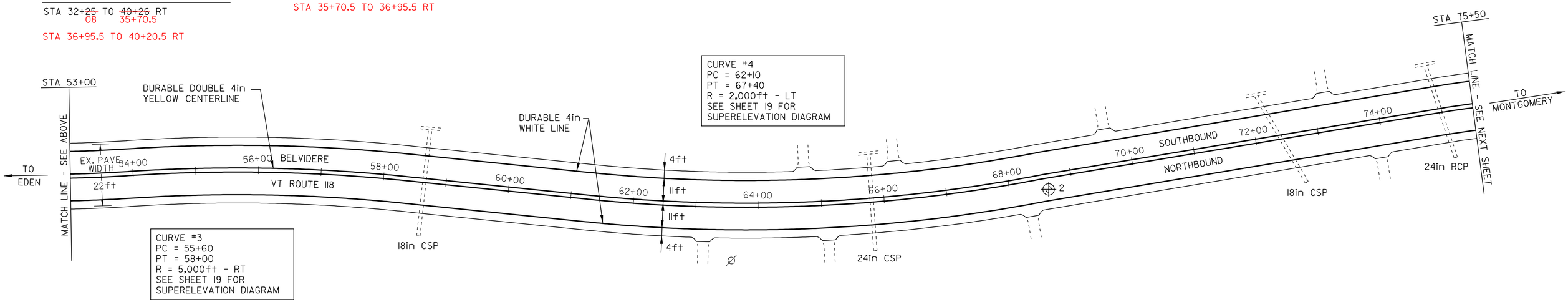
STEEL BEAM GUARD RAIL, GALVANIZED
STA 32+~~25~~ TO ~~40+26~~ RT
08 35+70.5
STA 36+95.5 TO 40+20.5 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/ 8' STEEL POSTS
STA 35+70.5 TO 36+95.5 RT

~~RELOCATE MAILBOX, SINGLE SUPPORT~~
~~STA 3I+88 RT~~ - I

DITCHING LOCATIONS (REFER TO SHEET 8 FOR DETAILS)
STA 55+I0 TO 59+00 RT STA 49+44 TO 5I+94 LT
STA 59+00 TO 66+I0 LT STA 63+83 TO 66+72 LT
STA 72+I5 TO 75+50 LT STA 67+85 TO 68+83 RT

STA 29+65 - 55+50 LT
5.3 AIR VOIDS (I OF 4 TESTS)
TYPE IVS (INTERMEDIATE LIFT) MIX



CURVE #3
PC = 55+60
PT = 58+00
R = 5,000ft - RT
SEE SHEET I9 FOR
SUPERELEVATION DIAGRAM

CURVE #4
PC = 62+I0
PT = 67+40
R = 2,000ft - LT
SEE SHEET I9 FOR
SUPERELEVATION DIAGRAM

PAVEMENT CORES -

#	TOTAL DEPTH (in)	SOLID CORE	DRAINABLE BASE	COMMENTS
I	5.0	NO	YES	RUT 1½" S.B.
2	4.0	YES	YES	RUT ½"

NOTE:
- NO PCC UNDER ANY CORES
- NO CORES OVER ASPHALTED
- NO SHOULDER CORES

LEGEND

N	= NEW
R	= REMOVE
R&S	= REMOVE & SALVAGE
S	= SALVAGE
RET	= RETAIN
B-TO-B	= BACK TO BACK
⊕ ▦ □	CATCH BASIN/DI
◫	EXISTING THROAT DI
(N.W.)	NO WORK REQUIRED (TYP. FOR W.V.'S, C.S.'S, D.I.'S, C.B.'S WHERE NOTED)
I	YIELDING MARKER POST
	UTILITY POLE
	DRIVE

PAVING PROJECT LAYOUT SHEET #1

DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p06cl62.dgn
PRF FILE p06cl62ppll.i DATE PLOTTED 03-NOV-2009
PROJ. NAME **BELVIDERE – MONTGOMERY**
PROJ. NO. **STP 2619(1)S**
SHEET **9** OF **33** SHEETS

TEMPORARY 4in YELLOW LINE (PAINT)
DURABLE 4in YELLOW LINE (THERMOPLASTIC)

STA 75+50 TO 97+65 SOLID LT&RT
STA 97+65 TO 105+~~58~~ 60 SOLID LT & DASHED RT
60STA 105+~~58~~ TO 113+~~50~~ 40 DASHED
40STA 113+~~50~~ TO ~~120+87~~121+00 DASHED LT & SOLID RT
~~STA 120+87 TO 121+00 SOLID LT&RT~~

TEMPORARY 4in WHITE LINE (PAINT)
DURABLE 4in WHITE LINE (THERMOPLASTIC)

STA 75+50 TO 121+00 SOLID LT&RT

STA 92+78 - 121+00 LT
2.6% AIR VOIDS (1 OF 4 TESTS)
TYPE IVS MIX (INTERMEDIATE LIFT)

STA 91+50 - 121+00 RT
5.3% AIR VOIDS (1 OF 4 TESTS)
TYPE IVS MIX (INTERMEDIATE LIFT)

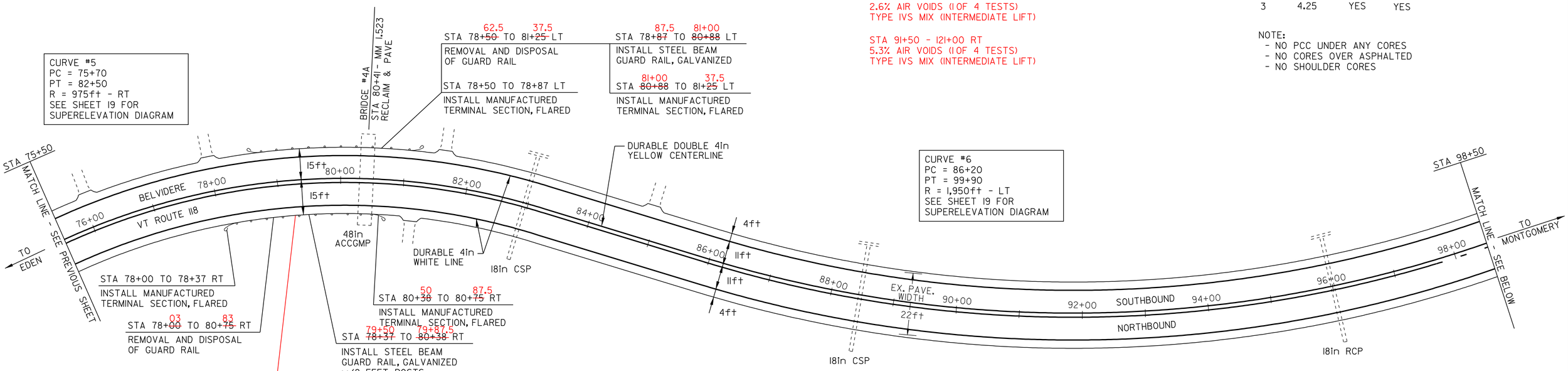
PAVEMENT CORES -

#	TOTAL DEPTH (in)	SOLID CORE	DRAINABLE BASE	COMMENTS
3	4.25	YES	YES	

NOTE:
- NO PCC UNDER ANY CORES
- NO CORES OVER ASPHALTED
- NO SHOULDER CORES

CURVE #5
PC = 75+70
PT = 82+50
R = 975ft - RT
SEE SHEET 19 FOR SUPERELEVATION DIAGRAM

CURVE #6
PC = 86+20
PT = 99+90
R = 1,950ft - LT
SEE SHEET 19 FOR SUPERELEVATION DIAGRAM



STA 78+00 TO 78+37 RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

03 83
STA 78+~~00~~ TO 80+~~75~~ RT
REMOVAL AND DISPOSAL OF GUARD RAIL

50 87.5
STA 80+~~38~~ TO 80+~~75~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

79+50 79+87.5
STA ~~78+37~~ TO ~~80+38~~ RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS

STA 78+37 TO 79+50 RT
STA 79+87.5 TO 80+50 RT
STEEL BEAM GUARDRAIL, GALVANIZED

62.5 37.5
STA 78+~~50~~ TO 81+~~25~~ LT
REMOVAL AND DISPOSAL OF GUARD RAIL

STA 78+50 TO 78+87 LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

87.5 81+00
STA 78+~~87~~ TO ~~80+88~~ LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

81+00 37.5
STA ~~80+88~~ TO 81+~~25~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

REMOVAL AND DISPOSAL OF GUARD RAIL
STA 78+~~00~~ TO 80+~~75~~ RT83
62.5STA 78+~~50~~ TO 81+~~25~~ LT37.5
STA 102+60~~2~~TO 106+35~~9~~RT
STA 104+00~~3~~TO 106+00~~3~~LT
STA 114+~~54~~ TO 119+~~69~~ LT
STA ~~116+05~~ TO 121+00 RT
115+83.5

STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
79+50 79+87.5
STA ~~78+37~~ TO ~~80+38~~ RT
40.5STA 104+~~37~~ TO 105+~~63~~ LT65.5
STA 116+16.5 TO 119+41.5 LT
STEEL BEAM GUARD RAIL, GALVANIZED
81+00
STA 78+87~~5~~TO ~~80+88~~ LT
76.5STA 102+97 TO 105+98 RT01.5
41.5STA 115+~~32~~ TO 119+~~32~~ LT16.5
STA 116+42~~1~~TO 121+00 RT
STA 78+37 TO 79+50 RT
STA 79+87.5 TO 80+50 RT
STA 119+41.5 TO 119+54 LT

MANUFACTURED TERMINAL SECTION, FLARED
STA 78+00 TO 78+37 RT
STA 78+50 TO 78+87 LT
50STA 80+~~38~~ TO 80+~~75~~ RT87.5
81+00STA ~~80+88~~ TO 81+~~25~~ LT37.5
39STA 102+~~60~~ TO 102+~~97~~ RT76.5
03STA 104+~~00~~ TO 104+~~37~~ LT40.5
65.5STA 105+~~63~~ TO 106+~~00~~ LT03
106+01STA ~~105+98~~ TO 106+~~35~~ RT39
115+04STA ~~114+94~~ TO 115+~~32~~ LT41.5
115+83.5STA ~~116+05~~ TO 116+~~42~~ RT21
54STA 119+~~32~~ TO 119+~~69~~ LT91.5

DITCHING LOCATIONS (REFER TO SHEET 8 FOR DETAILS)
STA 75+50 TO 77+75 LT
STA 95+95 TO 97+03 LT

STEEL BEAM GUARDRAIL, GALVANIZED W/ 8' STEEL POSTS
STA 116+16.5 TO 119+41.5 LT
STA 119+41.5 TO 119+54 LT

03 03
STA 104+~~00~~ TO 106+~~00~~ LT
REMOVAL AND DISPOSAL OF GUARD RAIL

03 40.5
STA 104+~~00~~ TO 104+~~37~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

40.5 65.5
STA 104+~~37~~ TO 105+~~63~~ LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS

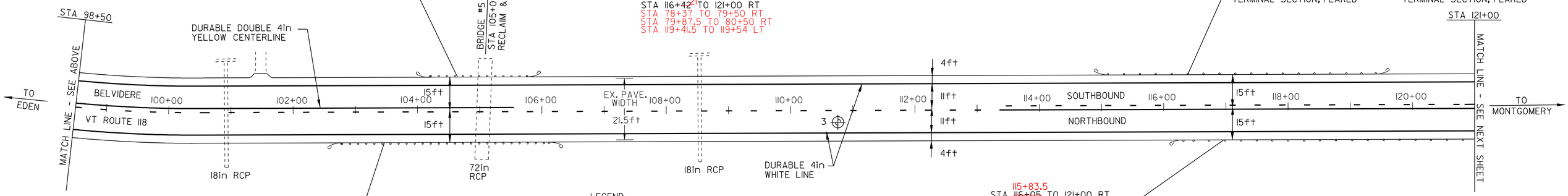
65.5 03
STA 105+~~63~~ TO 106+~~00~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

115+04 79
STA ~~114+94~~ TO 119+~~69~~ LT
REMOVAL AND DISPOSAL OF GUARD RAIL

115+04 41.5
STA ~~114+94~~ TO 115+~~32~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

41.5 116+16.5
STA 115+~~32~~ TO ~~119+32~~ LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

54 91.5
STA 119+~~32~~ TO 119+~~69~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED



62 39
STA 102+~~60~~ TO 106+~~35~~ RT
REMOVAL AND DISPOSAL OF GUARD RAIL

39 76.5
STA 102+~~60~~ TO 102+~~97~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

76.5 106+01.5
STA 102+~~97~~ TO ~~105+98~~ RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

106+01 39
STA ~~105+98~~ TO 106+~~35~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

115+83.5
STA ~~116+05~~ TO 121+00 RT
REMOVAL AND DISPOSAL OF GUARD RAIL

115+83.5 21
STA ~~116+05~~ TO 116+~~42~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

21
STA 116+~~42~~ TO 121+00 RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

LEGEND

N	= NEW
R	= REMOVE
R&S	= REMOVE & SALVAGE
S	= SALVAGE
RET	= RETAIN
B-TO-B	= BACK TO BACK
	CATCH BASIN/DI
	EXISTING THROAT DI
(N.W.)	NO WORK REQUIRED (TYP. FOR W.V.'S, C.S.'S, D.I.'S, C.B.'S WHERE NOTED)
	YIELDING MARKER POST
	UTILITY POLE
	DRIVE

PAVING PROJECT LAYOUT SHEET #2

DESIGNED BY	BCE/PJM DATE 6-07
DRAWN BY	C.E.A., INC. DATE 6-07
DESIGN FILE NO.	p06cl62.dgn
PRF FILE	p06cl62ppl2.i DATE PLOTTED 03-NOV-2009
PROJ. NAME	**BELVIDERE – MONTGOMERY**
PROJ. NO.	**STP 2619(1)S**
SHEET	**10** OF **33** SHEETS

TEMPORARY 4in YELLOW LINE (PAINT)
DURABLE 4in YELLOW LINE (THERMOPLASTIC)

TOWN OF BELVIDERE	
STA 121+~~00~~ 10 TO 149+~~37~~ 33	SOLID LT&RT
STA 149+~~37~~33 TO 154+23	SOLID LT & DASHED RT
STA 121+00 TO 121+10	DASHED LT & SOLID RT
TOWN OF MONTGOMERY	
STA 0+00 TO 1+~~57~~52	SOLID LT & DASHED RT
52STA 1+~~57~~ TO 2+~~36~~ 88	SOLID LT&RT
88STA 2+~~36~~ TO ~~8+98~~ 9+08	DASHED LT & SOLID RT
STA ~~8+98~~ TO 13+00	SOLID LT&RT
9+08	

TEMPORARY 4in WHITE LINE (PAINT)
DURABLE 4in WHITE LINE (THERMOPLASTIC)

TOWN OF BELVIDERE	
STA 121+00 TO 154+23	SOLID LT&RT
TOWN OF MONTGOMERY	
STA 0+00 TO 13+00	SOLID LT&RT

PAVEMENT CORES -

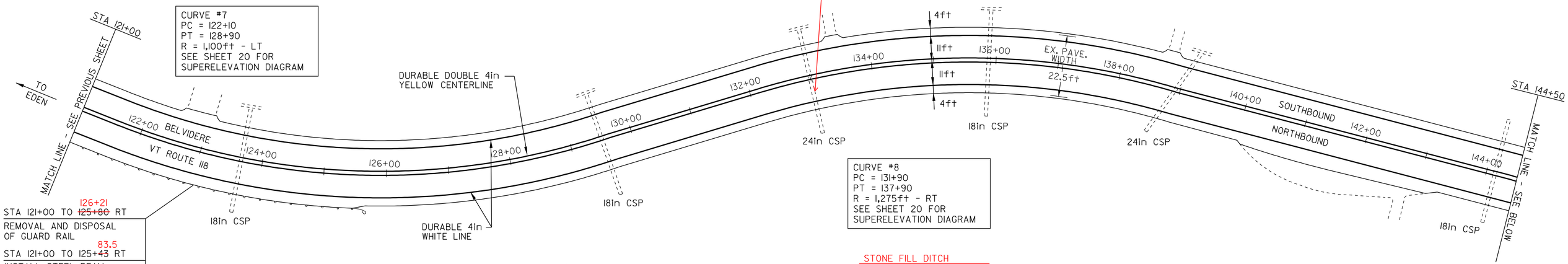
#	TOTAL DEPTH (in)	SOLID CORE	DRAINABLE BASE	COMMENTS
4	7.0	YES	YES	LITTLE RUT, LEVELED

NOTE:
- NO PCC UNDER ANY CORES
- NO CORES OVER ASPHALTED
- NO SHOULDER CORES

STA 121+00 - 154+23 LT
STA 0+00 - 13+00 LT
2.6% AIR VOIDS (1 OF 4 TESTS)
TYPE IVS MIX (INTERMEDIATELIFT)

STA 121+00 - 154+33
5.3% AIR VOIDS (1 OF 4 TESTS)
TYPE IVS MIX (INTERMEDIATELIFT)

MINOR COMPACTION FAILURE IN THE SUBBASE MATERIAL (94.53%)



STA 121+00 TO ~~125+80~~ 126+21 RT
REMOVAL AND DISPOSAL OF GUARD RAIL
STA 121+00 TO 125+~~43~~ 83.5 RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
STA 125+~~43~~ 83.5 TO ~~125+80~~ 126+21 RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

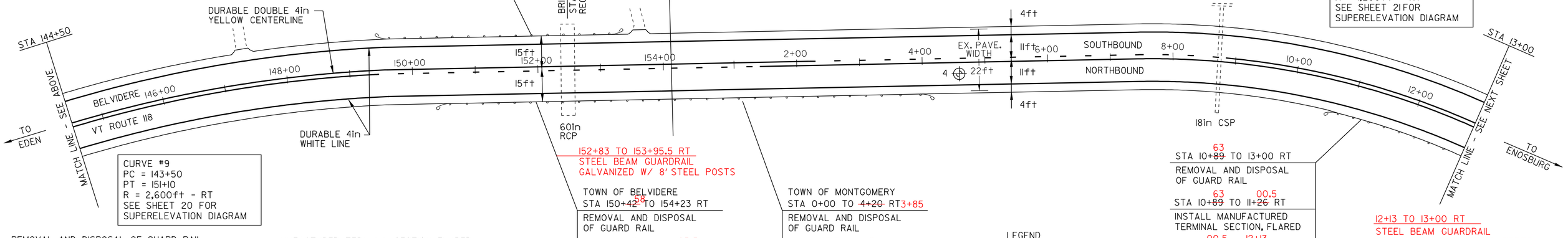
STONE FILL DITCH
STA 124+95 TO 128+63 RT

65 65
STA 149+~~37~~ TO 153+~~37~~ LT
REMOVAL AND DISPOSAL OF GUARD RAIL
65 150+02.5
STA 149+~~37~~ TO ~~149+74~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

150+02.5 27.5
STA ~~149+74~~ TO 153+~~00~~ LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
27.5 65
STA 153+~~00~~ TO 153+~~37~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

BRIDGE #6
STA 152+50 - MM 2.888
RECLAIM & PAVE

TOWN LINE
BELVIDERE STA 154+23 - MM 2.921
MONTGOMERY STA 0+00 - MM 0.000



CURVE #9
PC = 143+50
PT = 151+10
R = 2,600ft - RT
SEE SHEET 20 FOR SUPERELEVATION DIAGRAM

CURVE #10
PC = 7+60
PT = 13+30
R = 1,200ft - RT
SEE SHEET 21 FOR SUPERELEVATION DIAGRAM

152+83 TO 153+95.5 RT
STEEL BEAM GUARDRAIL
GALVANIZED W/ 8' STEEL POSTS

TOWN OF BELVIDERE
STA 150+~~42~~ 58 TO 154+23 RT
REMOVAL AND DISPOSAL OF GUARD RAIL
58 95.5
STA 150+~~42~~ TO 150+~~79~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
95.5 152+83
STA 150+~~79~~ TO ~~154+23~~ RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
& STA 153+95.5 TO 154+23 RT

TOWN OF MONTGOMERY
STA 0+00 TO ~~4+20~~ RT 3+85
REMOVAL AND DISPOSAL OF GUARD RAIL
47.5 3+85
STA 3+~~83~~ TO ~~4+20~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
47.5
STA 0+00 TO 3+~~83~~ RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

63
STA 10+~~89~~ TO 13+00 RT
REMOVAL AND DISPOSAL OF GUARD RAIL
63 00.5
STA 10+~~89~~ TO 11+~~26~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
00.5 12+13
STA 11+~~26~~ TO ~~13+00~~ RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

12+13 TO 13+00 RT
STEEL BEAM GUARDRAIL
GALVANIZED W/ 8' STEEL POSTS

REMOVAL AND DISPOSAL OF GUARD RAIL
TOWN OF BELVIDERE
STA 121+00 TO ~~125+80~~ RT 126+21
65 STA 149+~~37~~ TO 153+~~37~~ LT 65
58 STA 150+~~42~~ TO 154+23 RT
TOWN OF MONTGOMERY
STA 0+00 TO ~~4+20~~ RT 3+85
STA 10+~~89~~ 63 TO 13+00 RT

MANUFACTURED TERMINAL SECTION, FLARED
TOWN OF BELVIDERE
83.5 STA 125+~~43~~ TO ~~125+80~~ RT 126+21
65 STA 149+~~37~~ TO ~~149+74~~ LT 150+02.5
58 STA 150+~~42~~ TO 150+~~79~~ RT 95.5
27.5 STA 153+~~00~~ TO 153+~~37~~ LT 65
TOWN OF MONTGOMERY
47.5 STA 3+~~83~~ TO ~~4+20~~ RT 3+85
63 STA 10+~~89~~ TO 11+~~26~~ RT 00.5

STEEL BEAM GUARD RAIL, GALVANIZED
TOWN OF BELVIDERE
STA 121+00 TO 125+~~43~~ RT 83.5
95.5 STA 150+~~79~~ TO ~~154+23~~ RT 152+83
STA 153+95.5 TO 154+23 RT
TOWN OF MONTGOMERY
STA 0+00 TO 3+~~83~~ RT 47.5
STA 11+~~26~~ TO ~~13+00~~ RT 12+13
00.5

STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
TOWN OF BELVIDERE
150+02.5 STA ~~149+74~~ TO 153+~~00~~ LT 27.5
STA 152+83 TO 153+95.5 RT
STA 12+13 TO 13+00 RT

DITCHING LOCATIONS (REFER TO SHEET 8 FOR DETAILS)
~~STA 123+65 TO 133+00 LT~~
STA ~~144+30~~ TO ~~149+40~~ LT 143+60 TO 144+68 LT
STA 144+30 TO 150+30 RT

LEGEND

N	= NEW
R	= REMOVE
R&S	= REMOVE & SALVAGE
S	= SALVAGE
RET	= RETAIN
B-TO-B	= BACK TO BACK
	CATCH BASIN/DI
	EXISTING THROAT DI
(N.W.)	NO WORK REQUIRED (TYP. FOR W.V.'S, C.S.'S, D.I.'S, C.B.'S WHERE NOTED)
	YIELDING MARKER POST
	UTILITY POLE
	DRIVE

PAVING PROJECT LAYOUT SHEET #3

DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p06cl62.dgn
PRF FILE p06cl62ppl3.i DATE PLOTTED 03-NOV-2009 10
PROJ. NAME **BELVIDERE – MONTGOMERY**
PROJ. NO. **STP 2619(1)S**
SHEET **11** OF **33** SHEETS


TEMPORARY 4in YELLOW LINE (PAINT)
DURABLE 4in YELLOW LINE (THERMOPLASTIC)
STA 13+00 TO 36+93 37+60 SOLID LT&RT
STA 36+93 37+60 TO 44+87 45+15 SOLID LT & DASHED RT
STA 44+87 45+15 TO 60+50 DASHED
TEMPORARY 4in WHITE LINE (PAINT)
DURABLE 4in WHITE LINE (THERMOPLASTIC)
STA 13+00 TO 60+50 SOLID LT&RT
REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S
STA 26+30 RT
STA 31+32 RT
STA 14+00 TO 18+12.5 LT
STEEL BEAM GUARDRAIL GALVANIZED W/ 8' STEEL POSTS
STA 13+89 70 TO 20+14 19+85 LT
REMOVAL AND DISPOSAL OF GUARD RAIL
STA 14+26 18+12.5 TO 20+14 19+87.5 LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
STA 13+89 62.5 TO 14+26 00 LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
BRIDGE #7 STA 15+33 - MM 0.290 RECLAIM & PAVE
STA 20+14 LT
INSTALL BURIED END TERMINAL, SEE SHEET 32 FOR DETAIL
STA 19+87.5 TO 20+25 LT
MANUFACTURED TERMINAL SECTION, FLARED
STA 16+20 LT
REDUCED POST SPACING REQUIRED, SEE DETAIL, SHEET 32.
3.5ft
DURABLE DOUBLE 4in YELLOW CENTERLINE
STA 13+00
MATCH LINE - SEE PREVIOUS SHEET
TO BELVIDERE
14+00
15ft
15ft 14.5
16+00
MONTGOMERY
VT ROUTE 118
18+00
16ft
20+00
22+00
CGMPP ARCH
DURABLE 4in WHITE LINE
CURVE #11
PC = 18+80
PT = 22+30
R = 750ft - RT
SEE SHEET 21 FOR SUPERELEVATION DIAGRAM
STA 13+00 TO 15+88 63 RT
REMOVAL AND DISPOSAL OF GUARD RAIL
STA 13+00 15+00.5 TO 15+51 25.5 RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
STA 15+51 25.5 TO 15+88 63 RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
13+00 TO 15+00.5 RT
STEEL BEAM GUARDRAIL GALVANIZED W/ 8' STEEL POSTS
STA 41+10 - 60+50 LT
5.4% AIR VOIDS (1 OF 5 TESTS)
IN THE TYPE IVS (INTERMEDIATE LIFT) MIX
STA 13+00 - 41+10 LT
2.6% AIR VOIDS (1 OF 4 TESTS)
TYPE IVS (INTERMEDIATE LIFT) MIX
EX. PAVE. WIDTH
24+00
23ft
15ft
11ft
4ft
24in CSP
34+76 TO 35+26 LT
REDUCED SPC. 50' x 1.4
35+26 TO 36+26 LT
STA 22+66 38.5 TO 23+03 22+76 LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
STA 22+66 38.5 TO 37+66 51 LT
REMOVAL AND DISPOSAL OF GUARD RAIL
STA 23+03 22+76 TO 24+03 13.5 LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
STA 28+13.5 TO 31+63.5 LT
STEEL BEAM G.R. (6' POSTS)
STA 24+03 13.5 TO 29+28 28+13.5 LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
31+63.5 - 34+76 LT
STA 24+85 65 TO 29+20 00 LT
INSTALL TREATED TIMBER CURB
STA 29+28 36+26 TO 37+29 13.5 LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
18in CSP
26+00
15ft
28+00
REHAB
STA 26+20 - 26+30 RT
INSTALL 15' x 10' CPEP
CURVE #12
PC = 25+40
PT = 28+70
R = 420ft - LT
SEE SHEET 21 FOR SUPERELEVATION DIAGRAM
PAVEMENT CORES
STA 35+25 LT
REDUCED POST SPACING REQUIRED, SEE DETAIL, SHEET 32.
STA 36+00
24in CSP
5ft
2ft
15 16ft
EX. PAVE. WIDTH
34+00
32+00
22.5ft
SOUTHBOUND
NORTHBOUND
30+00
MATCH LINE - SEE BELOW
TO ENOSBURG
REHAB
CURVE #13
PC = 31+90
PT = 33+10
R = 750ft - RT
SEE SHEET 22 FOR SUPERELEVATION DIAGRAM
STA 58+57 36.5 TO 58+94 74 LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
STA 58+94 74 TO 60+50 59+74 LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
STA 58+57 50 TO 60+50 LT
REMOVAL AND DISPOSAL OF GUARD RAIL
59+74 TO 60+50 LT
STEEL BEAM GUARDRAIL GALVANIZED W/ 8' POSTS
STA 36+00
STA 37+29 13.5 TO 37+66 51 LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
DURABLE DOUBLE 4in YELLOW CENTERLINE
CURVE #15
PC = 45+70
PT = 50+60
R = 4,000ft - LT
SEE SHEET 22 FOR SUPERELEVATION DIAGRAM
STA 60+50
MATCH LINE - SEE ABOVE
18in CSP
38+00
40+00
MONTGOMERY
VT ROUTE 118
42+00
44+00
EX. PAVE. WIDTH
21.5ft
46+00
4ft
11ft
48+00
50+00
52+00
54+00
EX. PAVE. WIDTH
22ft
56+00
SOUTHBOUND
NORTHBOUND
58+00
60+00
MATCH LINE - SEE NEXT SHEET
TO BELVIDERE
18in CSP
DURABLE 4in WHITE LINE
30in CSP
TO ENOSBURG
STONE FILL DITCH
STA 22+26 - 36+72 RT
CURVE #14
PC = 37+10
PT = 40+10
R = 2,100ft - RT
SEE SHEET 22 FOR SUPERELEVATION DIAGRAM
CURVE #16
PC = 52+60
PT = 57+90
R = 5,000ft - RT
SEE SHEET 22 FOR SUPERELEVATION DIAGRAM

PAVEMENT CORES

#	TOTAL DEPTH (in)	SOLID CORE	DRAINABLE BASE	COMMENTS
5	5.0	NO	NO	BROKE UP, END OF LEVELING

NOTE:
- NO PCC UNDER ANY CORES
- NO CORES OVER ASPHALTED
- NO SHOULDER CORES

REMOVAL AND DISPOSAL OF GUARD RAIL
STA 13+00 TO 15+88 RT 63
70 STA 13+89 TO 20+14 LT 19+85
38.5 STA 22+66 TO 37+66 LT 51
50 STA 58+57 TO 60+50 LT

MANUFACTURED TERMINAL SECTION, FLARED
62.5 STA 13+89 TO 14+26 LT 00
25.5 STA 15+51 TO 15+88 RT 63
38.5 STA 22+66 TO 23+03 LT 22+76
13.5 STA 37+29 TO 37+66 LT 51
36.5 STA 58+57 TO 58+94 LT 74
STA 19+87.5 TO 20+25 LT

STEEL BEAM GUARD RAIL, GALVANIZED
STA 13+00 TO 15+51 RT 15+00.5 TO 15+25.5 RT
STA 14+26 TO 20+14 LT 18+12.5 TO 19+87.5 LT
22+76 STA 23+03 TO 24+03 LT 13.5
STA 29+28 TO 37+29 LT ALSO:
STA 58+94 TO 60+50 LT STA 28+13.5 TO 31+63.5 LT
74 59+74 STA 36+26 TO 37+13.5 LT

STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
STA 24+03 TO 29+28 LT (13 / 8 13.5)
STA 13+00 - 15+00.5 RT
STA 14+00 - 18+12.5 LT
STA 31+63.5 - 36+26 LT
STA 59+74 - 60+50 LT

ANCHOR FOR STEEL BEAM RAIL
STA 20+14 LT - 2

TREATED TIMBER CURB
STA 24+85 TO 29+20 LT
65 00

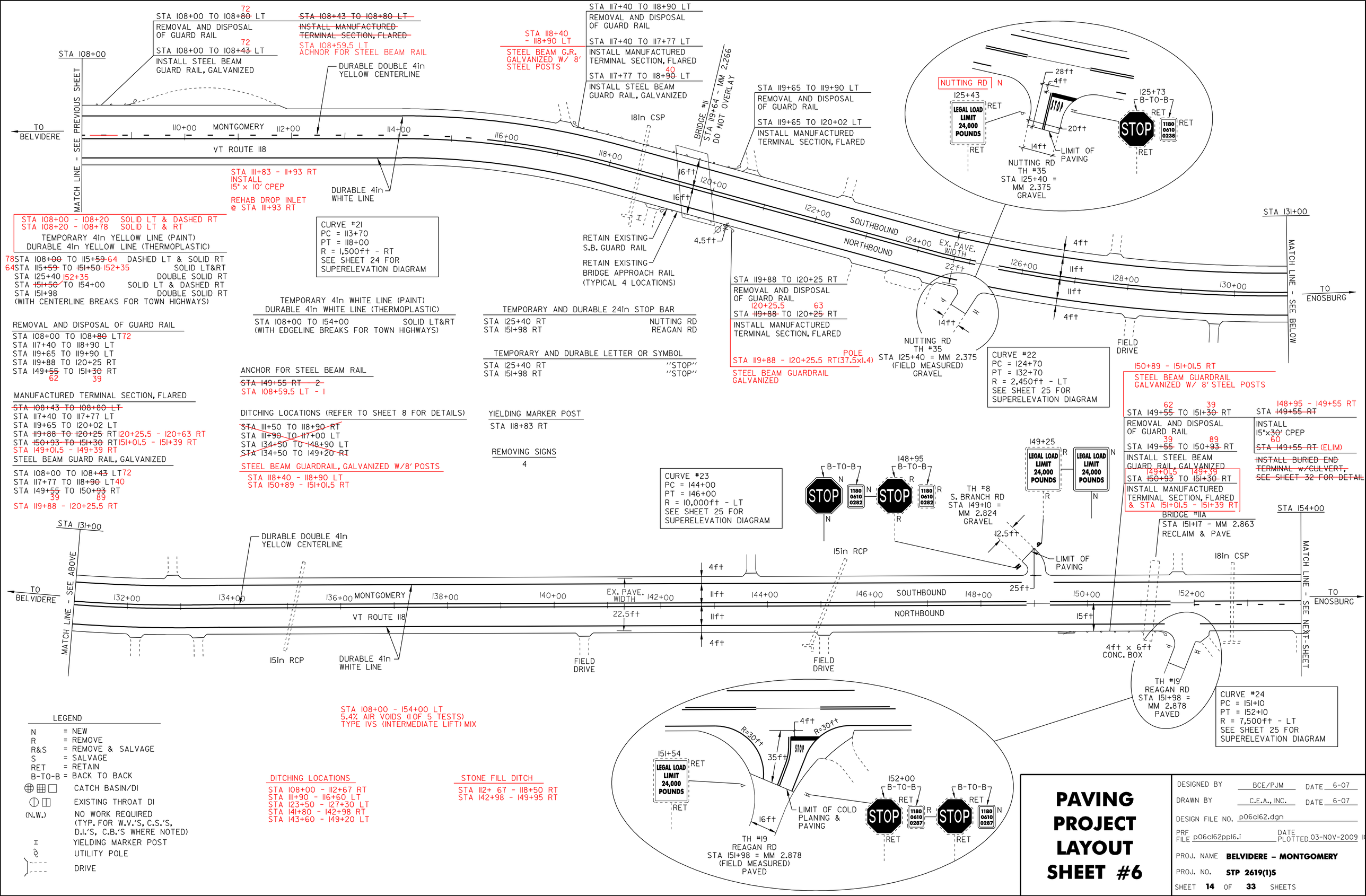
DITCHING LOCATIONS (REFER TO SHEET 8 FOR DETAILS)
STA 18+00 (20) TO 43+60 RT 22+26 36+72 - 43+49 RT
STA 55+80 TO 60+50 RT 49+44 - 51+60 RT

LEGEND
N = NEW
R = REMOVE
R&S = REMOVE & SALVAGE
S = SALVAGE
RET = RETAIN
B-TO-B = BACK TO BACK
CATCH BASIN/DI
EXISTING THROAT DI
(N.W.) NO WORK REQUIRED (TYP. FOR W.V.'S, C.S.'S, D.I.'S, C.B.'S WHERE NOTED)
YIELDING MARKER POST
UTILITY POLE
DRIVE

PAVING PROJECT LAYOUT SHEET #4

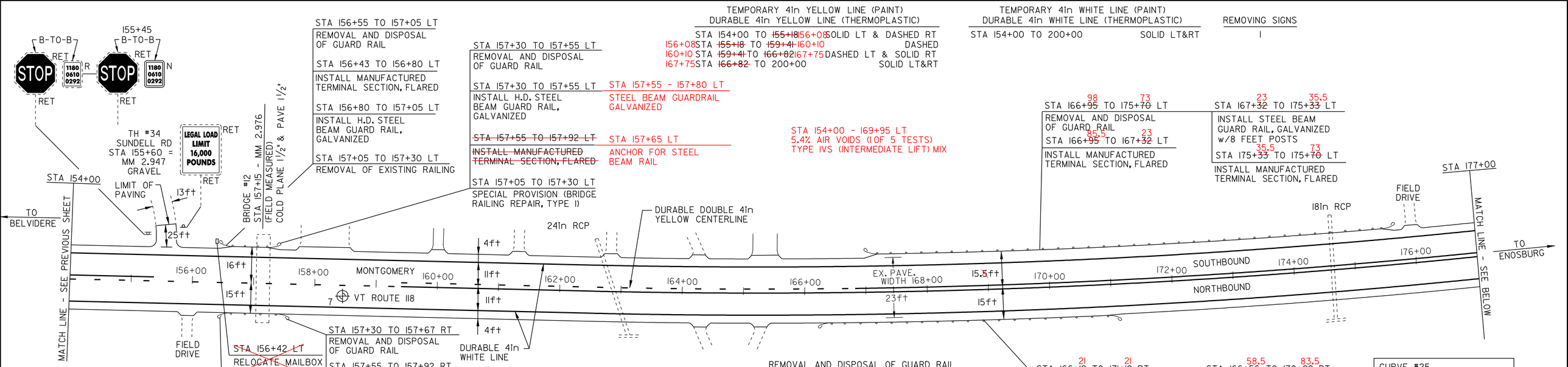
DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p06c162.dgn		
PRF FILE	p06c162pp14.i	DATE PLOTTED	03-NOV-2009
PROJ. NAME	**BELVIDERE - MONTGOMERY**		
PROJ. NO.	**STP 2619(1)S**		
SHEET	**12** OF **33** SHEETS		


TEMPORARY 4in YELLOW LINE (PAINT)
DURABLE 4in YELLOW LINE (THERMOPLASTIC)
STA 60+50 TO 68+09 25 DASHED
25 STA 68+09 TO 76+00 20 DASHED LT & SOLID RT
20 STA 76+00 TO 80+75 85 SOLID LT&RT
85 STA 80+75 TO 88+17 37 SOLID LT & DASHED RT
37 STA 88+17 TO 96+07 30 DASHED LT & SOLID RT
30 STA 96+07 TO 101+61 102+05 SOLID LT&RT
STA 101+61 TO 107+94 108+00 SOLID LT & DASHED RT
STA 107+94 TO 108+00 DASHED LT & SOLID RT
102+05
TEMPORARY 4in WHITE LINE (PAINT)
DURABLE 4in WHITE LINE (THERMOPLASTIC)
STA 60+50 TO 108+00 SOLID LT&RT
DITCHING LOCATIONS (REFER TO SHEET 8 FOR DETAILS)
STA 60+50 TO 71+80 70+93 RT
STA 78+00 TO 81+80 RT
STA 92+50 TO 95+00 LT&RT
STA 71+43 - 72+20 RT
STA 78+30 - 78+96 RT
STA 80+50 - 82+80 LT
STA 96+30 - 98+70 RT
STA 107+80 - 112+67 RT
STONE FILL DITCH
STA 82+80 - 82+96 LT
STA 83+36 - 84+02 LT
STA 78+96 - 80+90 RT
STA 81+46 - 82+51 RT
STA 71+00 TO 71+37.5 LT
MANUFACTURED TERMINAL SECTION, FLARED
CURVE #19
PC = 72+90
PT = 79+10
R = 5,000ft - LT
SEE SHEET 23 FOR SUPERELEVATION DIAGRAM
PAVEMENT CORES -
| # | TOTAL DEPTH (In) | SOLID CORE | DRAINABLE BASE | COMMENTS |
| 6 | 5.0 | NO | NO | BROKE UP, SOME RUTTING |
NOTE:
- NO PCC UNDER ANY CORES
- NO CORES OVER ASPHALTED
- NO SHOULDER CORES
STA 60+50 TO 63+57 50 LT
REMOVAL AND DISPOSAL OF GUARD RAIL
STA 60+50 62+74 TO 63+20 11.5 LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
STA 63+20 11.5 TO 63+57 49 LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
60+50 TO 62+74 LT
STEEL BEAM GUARDRAIL GALVANIZED W/ 8' POSTS
STA 72+03 LT
INSTALL 15"x30' CPEP
STA 72+03 LT
INSTALL BURIED END TERMINAL w/CULVERT, SEE SHEET 32 FOR DETAIL
71+37.5 - 73+13
STEEL BEAM G.R. W/ 6' POSTS
76+00.5 - 79+13
STA 72+03 71+76 TO 79+40 13 LT
REMOVAL AND DISPOSAL OF GUARD RAIL
STA 72+03 73+13 TO 79+40 76+00.5 LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
STA 79+40 13 LT
INSTALL BURIED END TERMINAL, SEE SHEET 32 FOR DETAIL
DURABLE DOUBLE 4in YELLOW CENTERLINE
STA 83+84 LT
INSTALL BURIED END TERMINAL w/CULVERT, SEE SHEET 32 FOR DETAIL
82+91 - 83+41 LT
STA 83+84 LT
INSTALL 15"x30' 50 CPEP
STA 83+31 - 83+68.5 LT
MANUFACTURED TERMINAL SECTION, FLARED
STA 85+00
TO ENOSBURG
STA 60+50
MATCH LINE - SEE PREVIOUS SHEET
18in RCP
4ft
15ft
62+00 WIDTH
EX. PAVE.
22ft
64+00
MONTGOMERY
VT ROUTE 118
66+00
68+00
70+00
11ft
11ft
4ft
72+00
74+00
EX. PAVE. WIDTH
22.5ft
76+00
15ft
15ft
SOUTHBOUND
NORTHBOUND
78+00
80+00
82+00
84+00
15ft
16ft
MATCH LINE - SEE BELOW
18in CSP
24in CSP
CURVE #17
PC = 59+60
PT = 62+60
R = 4,000ft - RT
SEE SHEET 23 FOR SUPERELEVATION DIAGRAM
TO BELVIDERE
CURVE #18
PC = 64+20
PT = 69+20
R = 4,200ft - RT
SEE SHEET 23 FOR SUPERELEVATION DIAGRAM
DURABLE 4in WHITE LINE
STA 71+77 RT ELIM.
INSTALL BURIED END TERMINAL w/CULVERT, SEE SHEET 32 FOR DETAIL
70+93 - 71+43 RT
STA 71+77 RT
INSTALL 15"x30' 50 CPEP
71+20 - 71+57.5 RT
MANUFACTURED TERMINAL SECTION, FLARED
STA 71+77 57 TO 77+90 70 RT
REMOVAL AND DISPOSAL OF GUARD RAIL
STA 71+77 74+07.5 TO 77+53 32.5 RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
18in CSP
STA 77+53 32.5 TO 77+90 70 RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
71+57.5 - 74+07.5 RT
STEEL BEAM GUARDRAIL GALVANIZED
STA 81+80 RT
INSTALL BURIED END TERMINAL w/CULVERT, SEE SHEET 32 FOR DETAIL
80+87 - 81+47 RT
STA 81+80 RT
INSTALL 15"x30' 60' CPEP
STA 81+31 - 81+68.5 RT
MANUFACTURED TERMINAL SECTION, FLARED
STA 81+80 68.5 TO 87+42 31 RT
REMOVAL AND DISPOSAL OF GUARD RAIL
STA 81+80 82+43.5 TO 87+05 86+31 RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
81+68.5 - 82+43.5 RT
STEEL BEAM G.R. (6' POSTS)
86+31 - 86+93.5 RT
STEEL BEAM G.R. (6' POSTS)
STA 60+50 - 108+00 LT
5.4% AIR VOIDS (1 OF 5 TESTS)
TYPE IVS (INTERMEDIATE LIFT) MIX
83+68.5 TO 84+06 LT
STEEL BEAM G.R. W/ 6' POSTS
85+68.5 TO 87+93.5 LT
STA 83+84 68.5 TO 88+46 31 LT
REMOVAL AND DISPOSAL OF GUARD RAIL
STA 83+84 84+06 TO 88+09 85+68.5 LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
STA 88+09 87+93.5 TO 88+46 31 LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
BRIDGE #8 STA 86+45 (FIELD MEASURED) - MM 1.638 RECLAIM & PAVE
STA 85+00
MATCH LINE - SEE ABOVE
TO BELVIDERE
CURVE #20
PC = 91+60
PT = 106+10
R = 2,800ft - LT
SEE SHEET 24 FOR SUPERELEVATION DIAGRAM
86+00
MONTGOMERY
VT ROUTE 118
88+00
4ft
11ft
11ft
90+00
EX. PAVE. WIDTH
21.5ft
4ft
18in CSP
DURABLE DOUBLE 4in YELLOW CENTERLINE
92+00
94+00
96+00
98+00
100+00
15ft
15ft
SOUTHBOUND
NORTHBOUND
102+00
104+00
106+00
EX. PAVE. WIDTH
23ft
15ft
15ft
72in ACCGMP
STA 87+05 86+93.5 TO 87+42 31 RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
DURABLE 4in WHITE LINE
72in ACCGMP
48in ACCGMP
18in CSP
STA 99+20 12 TO 99+57 49.5 LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
STA 99+20 11 TO 101+70 62 LT
REMOVAL AND DISPOSAL OF GUARD RAIL
STA 99+57 49.5 TO 101+33 99+74.5 LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
STA 101+33 24.5 TO 101+70 62 LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
STA 99+74.5 - 101+24.5 LT
STEEL BEAM GUARDRAIL GALVANIZED
BRIDGE #9 STA 99+30 (FIELD MEASURED) - MM 1.881 RECLAIM & PAVE
BRIDGE #10 STA 104+65 (FIELD MEASURED) - MM 1.982 RECLAIM & PAVE
STA 104+18 09.5 TO 104+55 47 LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
STA 104+18 07 TO 108+00 LT
REMOVAL AND DISPOSAL OF GUARD RAIL
STA 104+55 47 TO 108+00 106+22 LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
& STA 107+97 - 108+00 LT
STA 106+22 - 107+97 LT
STEEL BEAM G.R. GALVANIZED W/8' POSTS
STA 108+00
MATCH LINE - SEE NEXT SHEET
TO ENOSBURG
STA 104+20.5 - 107+20.5 RT
STEEL BEAM GUARDRAIL GALVANIZED
STA 101+65 58 TO 102+02 101+95.5 RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
STA 101+65 58 TO 107+65 RT
REMOVAL AND DISPOSAL OF GUARD RAIL
STA 102+02 101+95.5 TO 107+28 104+20.5 RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
STA 107+28 20.5 TO 107+65 58 RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
REMOVAL AND DISPOSAL OF GUARD RAIL
57 STA 71+77 71+76 TO 77+90 RT 70
STA 72+03 TO 79+40 LT 13
68.5 STA 81+80 TO 87+42 RT 31
68.5 STA 83+84 TO 88+46 LT 31
44 STA 95+50 TO 99+75 RT 58
11 STA 99+20 TO 101+70 LT 62
55 STA 101+65 TO 107+65 RT 58
07 STA 104+18 TO 108+00 LT
MANUFACTURED TERMINAL SECTION, FLARED
11.5 STA 63+20 TO 63+57 LT 49 STA 71+20-71+57.5 RT
32.5 STA 77+53 TO 77+90 RT 70 STA 71+00-71+37.5 LT
STA 86+93.5 87+05 TO 87+42 RT 31 STA 81+31-81+68.5 RT
STA 87+93.5 88+09 TO 88+46 LT 31 STA 83+31-83+68.5 LT
45.5 STA 95+50 TO 95+87 RT 83
12 STA 99+20 TO 99+57 LT 49.5
20.5 STA 99+38 TO 99+75 RT 58
24.5 STA 101+33 TO 101+70 LT 62
58 STA 101+65 TO 102+02 RT 101+95.5
09.5 STA 104+18 TO 104+55 LT 47
20.5 STA 107+28 TO 107+65 RT 58
ANCHOR FOR STEEL BEAM RAIL
STA 71+77 RT - 2 STA 79+00.5 LT - 1
STA 72+03 LT - 2 STA 78+38 LT - 1
STA 79+40 LT - 2
STA 81+80 RT - 2
STA 83+84 LT - 2
STEEL BEAM GUARD RAIL, GALVANIZED
STA 60+50 62+74 TO 63+20 11.5 LT
83 STA 95+87 TO 99+38 RT 97+08
47 STA 104+55 TO 108+00 LT 106+22
STA 83+68.5 - 84+06 LT
STA 85+68.5 - 87+93.5 LT
STA 97+70.5 - 99+20.5 RT
STA 99+74.5 - 101+24.5 LT
STA 104+20.5 - 107+20.5 RT
STA 107+97 - 108+00 LT
STA 71+37.5 - 73+13 LT
STA 76+00.5 - 79+13 LT
STA 71+57.5 - 74+07.5 RT
STA 81+68.5 - 82+43.5 RT
STA 86+31 - 86+93.5 RT
STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
STA 71+77 74+07.5 TO 77+53 32.5 RT
STA 72+03 TO 79+40 LT STA 73+13 TO 76+00.5 LT
STA 81+80 TO 87+05 RT STA 82+43.5 TO 86+31 RT
84+06 STA 83+84 TO 88+09 LT 85+68.5 STA 97+08 - 97+70.5 RT
49.5 STA 99+57 TO 101+33 LT 99+74.5
STA 102+02 TO 107+28 RT STA 101+95.5 TO 104+20.5 RT
STA 60+50 TO 62+74 LT STA 106+22 TO 107+97 LT
STA 95+50 45.5 TO 95+87 83 RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
STA 95+50 44 TO 99+75 58 RT
REMOVAL AND DISPOSAL OF GUARD RAIL
STA 95+87 83 TO 99+38 97+08 RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
& 97+70.5 - 99+20.5 RT
STA 99+38 20.5 TO 99+75 58 RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED
STA 97+08 - 97+70.5 RT
STEEL BEAM GUARDRAIL GALVANIZED W/ 8' POSTS
LEGEND
N = NEW
R = REMOVE
R&S = REMOVE & SALVAGE
S = SALVAGE
RET = RETAIN
B-TO-B = BACK TO BACK
CATCH BASIN/DI
EXISTING THROAT DI
(N.W.) NO WORK REQUIRED (TYP. FOR W.V.'S, C.S.'S, D.I.'S, C.B.'S WHERE NOTED)
YIELDING MARKER POST
UTILITY POLE
DRIVE
PAVING PROJECT LAYOUT SHEET #5
DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p06c162.dgn
PRF FILE p06c162pp15.i DATE PLOTTED 03-NOV-2009
PROJ. NAME BELVIDERE - MONTGOMERY
PROJ. NO. STP 2619(1)S
SHEET 13 OF 33 SHEETS



PAVING PROJECT LAYOUT SHEET #6

DESIGNED BY	BCE/PJM — DATE 6-07
DRAWN BY	C.E.A., INC. — DATE 6-07
DESIGN FILE NO.	p06cl62.dgn
PRF FILE	p06cl62ppl6.i — DATE PLOTTED 03-NOV-2009
PROJ. NAME	**BELVIDERE – MONTGOMERY**
PROJ. NO.	**STP 2619(1)S**
SHEET	**14** OF **33** SHEETS



STA 156+55 TO 157+05 LT
REMOVAL AND DISPOSAL OF GUARD RAIL

STA 156+43 TO 156+80 LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

STA 156+80 TO 157+05 LT
INSTALL H.D. STEEL BEAM GUARD RAIL, GALVANIZED

STA 157+05 TO 157+30 LT
REMOVAL OF EXISTING RAILING

STA 157+30 TO 157+55 LT
REMOVAL AND DISPOSAL OF GUARD RAIL

STA 157+30 TO 157+55 LT
INSTALL H.D. STEEL BEAM GUARD RAIL, GALVANIZED

~~STA 157+55 TO 157+92 LT~~
~~INSTALL MANUFACTURED TERMINAL SECTION, FLARED~~

STA 157+05 TO 157+30 LT
SPECIAL PROVISION (BRIDGE RAILING REPAIR, TYPE I)

STA 157+55 - 157+80 LT
STEEL BEAM GUARDRAIL GALVANIZED

STA 157+65 LT
ANCHOR FOR STEEL BEAM RAIL

TEMPORARY 4in YELLOW LINE (PAINT)
DURABLE 4in YELLOW LINE (THERMOPLASTIC)

STA 154+00 TO ~~155+18~~ 156+08 SOLID LT & DASHED RT
156+08 STA ~~155+18~~ TO ~~159+41~~ 160+10 DASHED
160+10 STA ~~159+41~~ TO ~~166+82~~ 167+75 DASHED LT & SOLID RT
167+75 STA ~~166+82~~ TO 200+00 SOLID LT&RT

STA 154+00 - 169+95 LT
5.4% AIR VOIDS (1 OF 5 TESTS)
TYPE IVS (INTERMEDIATE LIFT) MIX

TEMPORARY 4in WHITE LINE (PAINT)
DURABLE 4in WHITE LINE (THERMOPLASTIC)

STA 154+00 TO 200+00 SOLID LT&RT

REMOVING SIGNS
1

98 73
STA 166+~~95~~ TO 175+~~70~~ LT
REMOVAL AND DISPOSAL OF GUARD RAIL
85.5 23
STA 166+~~95~~ TO 167+~~32~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

23 35.5
STA 167+~~32~~ TO 175+~~33~~ LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
35.5 73
STA 175+~~33~~ TO 175+~~70~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

STA 157+30 TO 157+67 RT
REMOVAL AND DISPOSAL OF GUARD RAIL

STA 157+55 TO 157+92 RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

STA 157+30 TO 157+55 RT
INSTALL H.D. STEEL BEAM GUARD RAIL, GALVANIZED

STA 157+05 TO 157+30 RT
SPECIAL PROVISION (BRIDGE RAILING REPAIR, TYPE I)

STA 156+42 LT
~~RELOCATE MAILBOX SINGLE SUPPORT~~

STA 156+55 TO 157+05 RT
REMOVAL AND DISPOSAL OF GUARD RAIL

~~STA 156+55 TO 156+92 RT~~
~~INSTALL MANUFACTURED TERMINAL SECTION, FLARED~~

STA 156+67.5 RT
ANCHOR FOR STEEL BEAM RAIL

80
STA 156+~~92~~ TO 157+05 RT
INSTALL H.D. STEEL BEAM GUARD RAIL, GALVANIZED

156+55 - 156+80 RT
STEEL BEAM G.R. GALVANIZED

STA 157+05 TO 157+30 RT
REMOVAL OF EXISTING RAILING

REMOVAL OF EXISTING RAILING
STA 157+05 TO 157+30 RT
STA 157+05 TO 157+30 LT

SPECIAL PROVISION (BRIDGE RAILING REPAIR, TYPE I)
STA 157+05 TO 157+30 RT
STA 157+05 TO 157+30 LT

H.D. STEEL BEAM GUARD RAIL, GALVANIZED
STA 156+80 TO 157+05 LT
80 STA 156+~~92~~ TO 157+05 RT
STA 157+30 TO 157+55 RT
STA 157+30 TO 157+55 LT

REMOVAL AND DISPOSAL OF GUARD RAIL
STA 156+55 TO 157+05 RT
STA 156+55 TO 157+05 LT
STA 157+30 TO 157+67 RT
STA 157+30 TO 157+55 LT
2 STA 166+~~19~~ TO 171+~~19~~ RT 21
98 STA 166+~~95~~ TO 175+~~70~~ LT 73
6 STA 178+~~53~~ TO 182+~~15~~ RT 24
59.5 STA 178+~~53~~ TO 186+~~03~~ LT 22

STEEL BEAM GUARD RAIL, GALVANIZED
58.5 STA 166+~~56~~ TO 170+~~92~~ RT 83.5
~~STA 182+03 TO 185+66 LT~~
STA 156+55 - 156+80 RT STA 178+98.5 - 180+11 RT
STA 157+55 - 157+80 LT STA 181+73.5 - 184+11 RT

MANUFACTURED TERMINAL SECTION, FLARED
STA 156+43 TO 156+80 LT
~~STA 156+55 TO 156+92 RT~~
~~STA 157+55 TO 157+92 LT~~
STA 157+55 TO 157+92 RT
3 STA 166+~~19~~ TO 166+~~56~~ RT 58.5
85.5 STA 166+~~95~~ TO 167+~~32~~ LT 23
83.5 STA 170+~~92~~ TO 171+~~19~~ RT 21
35.5 STA 175+~~33~~ TO 175+~~70~~ LT 73
6 STA 178+~~53~~ TO 178+~~90~~ RT 98.5
59.5 STA 178+~~53~~ TO 178+~~90~~ LT 97
84.5 STA 185+~~66~~ TO 186+~~03~~ LT 22
STA 184+11 - 184+48.5 RT

21 21
STA 166+~~19~~ TO 171+~~19~~ RT
REMOVAL AND DISPOSAL OF GUARD RAIL
21 58.5
STA 166+~~19~~ TO 166+~~56~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

58.5 83.5
STA 166+~~56~~ TO 170+~~92~~ RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
83.5 21
STA 170+92 TO 171+~~19~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

CURVE #25
PC = 170+10
PT = 177+20
R = 6,000ft - LT
SEE SHEET 25 FOR SUPERELEVATION DIAGRAM

STEEL BEAM GUARD RAIL, GALVANIZED w/8 FOOT POSTS
23 STA 167+~~32~~ TO 175+~~33~~ LT 35.5
~~STA 178+90 TO 182+27 RT~~
97 STA 178+~~90~~ TO ~~182+03~~ LT 185+84.5
STA 180+11 - 181+73.5 RT

ANCHOR FOR STEEL BEAM RAIL
~~STA 182+27 RT — 2~~ STA 156+67.5 RT-1
STA 157+65 LT-1

DITCHING LOCATIONS (REFER TO SHEET 8 FOR DETAILS)
STA 157+70 TO 166+00 RT
STA 171+20 TO 178+50 RT
STA 182+30 TO 190+30 RT

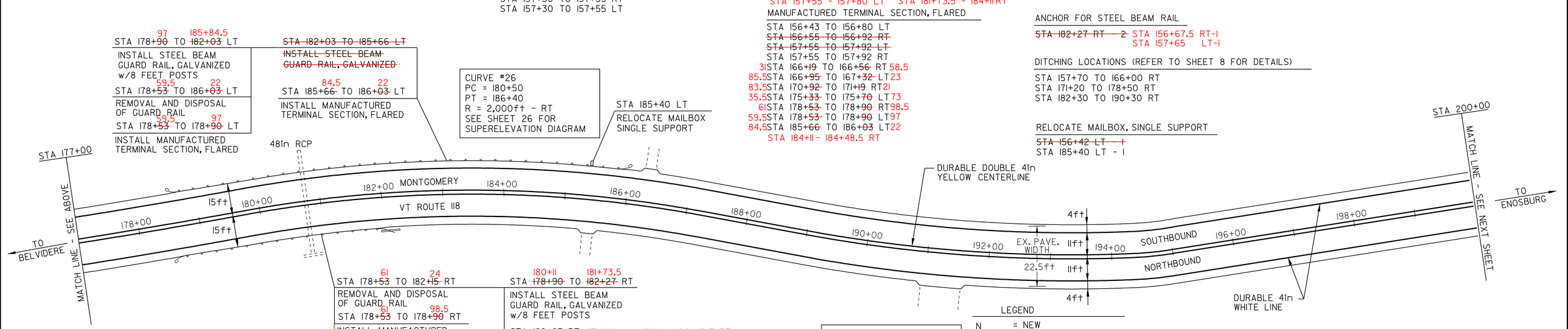
RELOCATE MAILBOX, SINGLE SUPPORT
~~STA 156+42 LT — 1~~
STA 185+40 LT - 1

97 185+84.5
STA 178+~~90~~ TO ~~182+03~~ LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
59.5 22
STA 178+~~53~~ TO 186+~~03~~ LT
REMOVAL AND DISPOSAL OF GUARD RAIL
59.5 97
STA 178+~~53~~ TO 178+~~90~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

~~STA 182+03 TO 185+66 LT~~
~~INSTALL STEEL BEAM GUARD RAIL, GALVANIZED~~
84.5 22
STA 185+~~66~~ TO 186+~~03~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

CURVE #26
PC = 180+50
PT = 186+40
R = 2,000ft - RT
SEE SHEET 26 FOR SUPERELEVATION DIAGRAM

STA 185+40 LT
RELOCATE MAILBOX SINGLE SUPPORT



6 181+73.5
STA 178+~~53~~ TO 182+~~15~~ RT
REMOVAL AND DISPOSAL OF GUARD RAIL
6 98.5
STA 178+~~53~~ TO 178+~~90~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

181+73.5 - 184+11 RT
178+98.5 - 180+11 RT
STEEL BEAM GUARDRAIL GALVANIZED

180+11 181+73.5
STA ~~178+90~~ TO ~~182+27~~ RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
~~STA 182+27 RT~~ (ELIM.)
~~INSTALL BURIED END TERMINAL w/CULVERT, SEE SHEET 32 FOR DETAIL~~
STA 182+27 RT
INSTALL 15"x30' CPEP

184+11 - 184+48.5 RT
MANUFACTURED TERMINAL SECTION, FLARED

DITCHING LOCATIONS
STA 152+50 - 154+00 RT

CURVE #27
PC = 189+50
PT = 194+30
R = 1,900ft - LT
SEE SHEET 26 FOR SUPERELEVATION DIAGRAM

PAVEMENT CORES -

#	TOTAL DEPTH (in)	SOLID CORE	DRAINABLE BASE	COMMENTS
7	3.0	NO	NO	RUTTING IN RIGHT LANE

NOTE:
- NO PCC UNDER ANY CORES
- NO CORES OVER ASPHALTED
- NO SHOULDER CORES

LEGEND

N	= NEW
R	= REMOVE
R&S	= REMOVE & SALVAGE
S	= SALVAGE
RET	= RETAIN
B-TO-B	= BACK TO BACK
	CATCH BASIN/DI
	EXISTING THROAT DI
(N.W.)	NO WORK REQUIRED (TYP. FOR W.V.'S, C.S.'S, D.I.'S, C.B.'S WHERE NOTED)
I	YIELDING MARKER POST
	UTILITY POLE
	DRIVE

PAVING PROJECT LAYOUT SHEET #7

DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p06cl62.dgn
PRF FILE p06cl62ppl7.i DATE PLOTTED 03-NOV-2009
PROJ. NAME **BELVIDERE - MONTGOMERY**
PROJ. NO. **STP 2619(1)S**
SHEET **15** OF **33** SHEETS

TEMPORARY 4in YELLOW LINE (PAINT)
DURABLE 4in YELLOW LINE (THERMOPLASTIC)

STA 200+00 TO 246+00	SOLID LT&RT
STA 210+60	DOUBLE SOLID LT

(WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY 4in WHITE LINE (PAINT)
DURABLE 4in WHITE LINE (THERMOPLASTIC)

STA 200+00 TO 246+00	SOLID LT&RT

(WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 24in STOP BAR

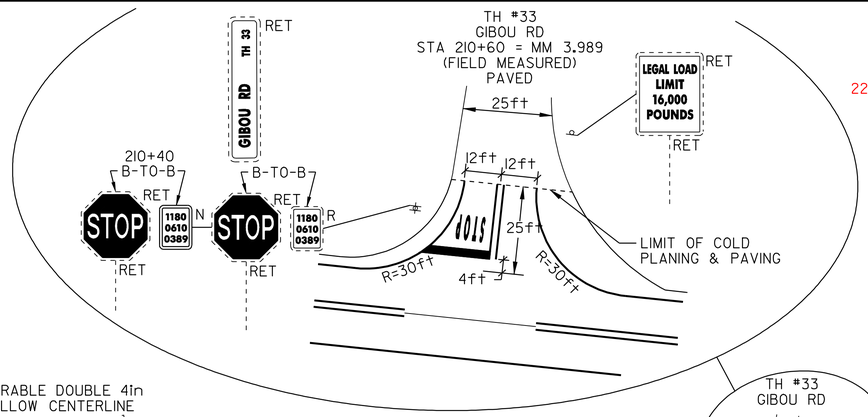
STA 210+60 LT	GIBOU RD

TEMPORARY AND DURABLE LETTER OR SYMBOL

STA 210+60 LT	"STOP"

REMOVING SIGNS

8



DITCHING LOCATIONS (REFER TO SHEET 8 FOR DETAILS)

~~STA 211+60 TO 214+10 RT~~
222+42 STA ~~221+80~~ TO 232+70 RT
STA 235+10 TO 238+50 LT
STA 235+00 TO ~~239+00~~ RT 242+89

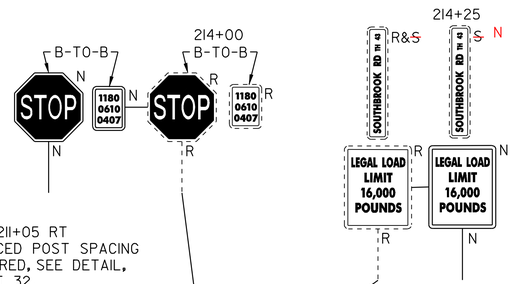
STA 201+84 - 203+55 LT
STA 202+11 - 204+23 RT
STA 214+00 - 216+00 RT
STA 214+00 - 217+00 LT

RELOCATE MAILBOX, SINGLE SUPPORT

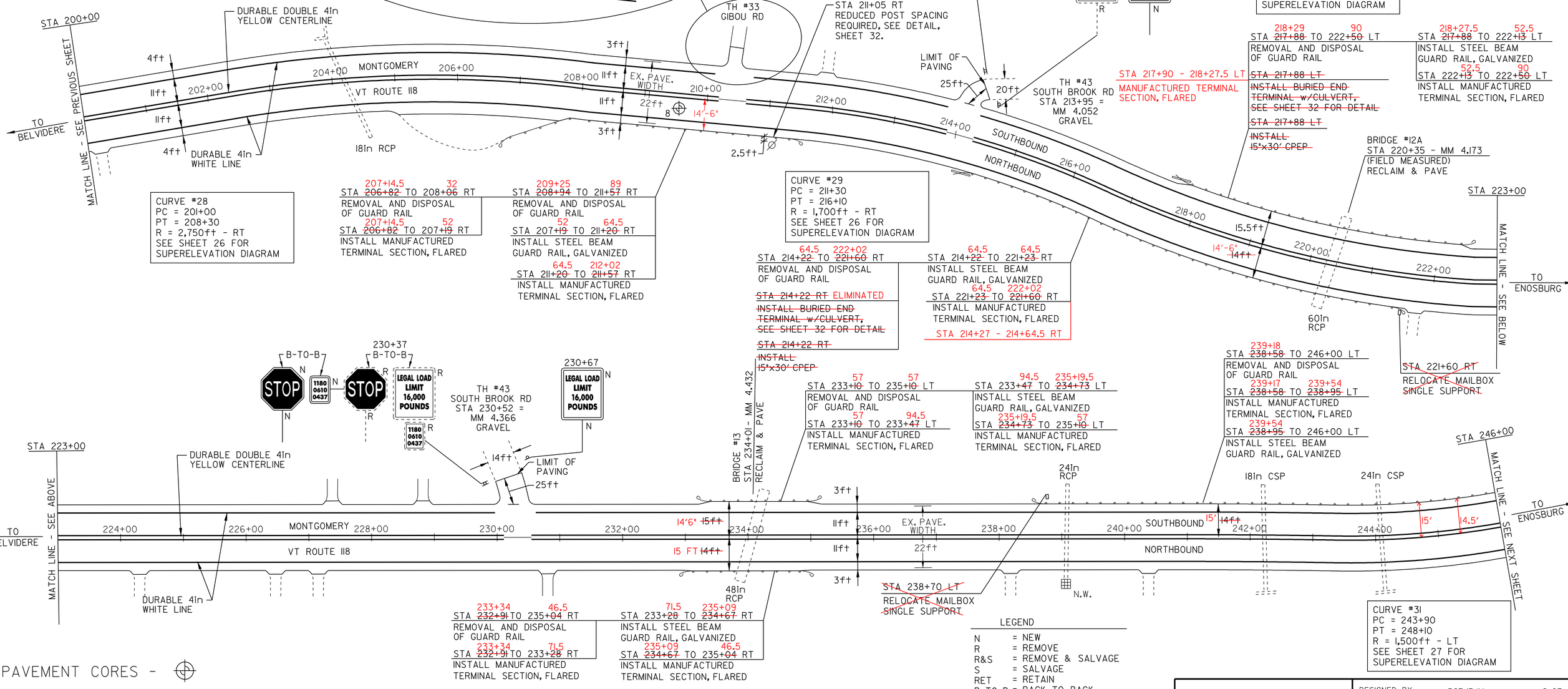
STA 221+60 RT - 1
STA 238+70 LT - 1

STONE FILL DITCH

STA 203+45 - 208+18 LT
STA 204+23 - 204+54 RT
STA 223+02 - 225+60 LT
STA 242+89 - 245+05 RT



CURVE #30
PC = 217+50
PT = 224+70
R = 2,000ft - LT
SEE SHEET 26 FOR SUPERELEVATION DIAGRAM



CURVE #28
PC = 201+00
PT = 208+30
R = 2,750ft - RT
SEE SHEET 26 FOR SUPERELEVATION DIAGRAM

207+14.5 32
STA ~~206+82~~ TO 208+~~06~~ RT
REMOVAL AND DISPOSAL OF GUARD RAIL

207+14.5 52
STA ~~206+82~~ TO 207+~~19~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

209+25 89
STA ~~208+94~~ TO 211+~~57~~ RT
REMOVAL AND DISPOSAL OF GUARD RAIL

52 64.5
STA 207+~~19~~ TO 211+~~20~~ RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

64.5 212+02
STA 211+~~20~~ TO 211+~~57~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

CURVE #29
PC = 211+30
PT = 216+10
R = 1,700ft - RT
SEE SHEET 26 FOR SUPERELEVATION DIAGRAM

64.5 222+02
STA 214+~~22~~ TO ~~221+60~~ RT
REMOVAL AND DISPOSAL OF GUARD RAIL

~~STA 214+22 RT~~ ELIMINATED

~~INSTALL BURIED END TERMINAL w/CULVERT, SEE SHEET 32 FOR DETAIL~~

~~STA 214+22 RT~~
~~INSTALL~~
~~15'x30' CPEP~~

64.5 64.5
STA 214+~~22~~ TO 221+~~23~~ RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

64.5 222+02
STA 221+~~23~~ TO ~~221+60~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

STA 214+27 - 214+64.5 RT

STA 217+90 - 218+27.5 LT
MANUFACTURED TERMINAL SECTION, FLARED

218+29 90
STA ~~217+88~~ TO 222+~~50~~ LT
REMOVAL AND DISPOSAL OF GUARD RAIL

~~STA 217+88 LT~~
~~INSTALL BURIED END TERMINAL w/CULVERT, SEE SHEET 32 FOR DETAIL~~

~~STA 217+88 LT~~
~~INSTALL~~
~~15'x30' CPEP~~

218+27.5 52.5
STA ~~217+88~~ TO 222+~~13~~ LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

52.5 90
STA 222+~~13~~ TO 222+~~50~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

239+18
STA ~~238+58~~ TO 246+00 LT
REMOVAL AND DISPOSAL OF GUARD RAIL

239+17 239+54
STA ~~238+58~~ TO ~~238+95~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

239+54
STA ~~238+95~~ TO 246+00 LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

STA 221+60 RT
RELOCATE MAILBOX
~~SINGLE SUPPORT~~

233+34 46.5
STA ~~232+91~~ TO 235+~~04~~ RT
REMOVAL AND DISPOSAL OF GUARD RAIL

233+34 71.5
STA ~~232+91~~ TO 233+~~28~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

71.5 235+09
STA 233+~~28~~ TO ~~234+67~~ RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

235+09 46.5
STA ~~234+67~~ TO 235+~~04~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

57 57
STA 233+~~10~~ TO 235+~~10~~ LT
REMOVAL AND DISPOSAL OF GUARD RAIL

57 94.5
STA 233+~~10~~ TO 233+47 LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

94.5 235+19.5
STA 233+~~47~~ TO ~~234+73~~ LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

235+19.5 57
STA ~~234+73~~ TO 235+~~10~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

STA 238+70 LT
RELOCATE MAILBOX
~~SINGLE SUPPORT~~

CURVE #31
PC = 243+90
PT = 248+10
R = 1,500ft - LT
SEE SHEET 27 FOR SUPERELEVATION DIAGRAM

PAVEMENT CORES -

#	TOTAL DEPTH (In)	SOLID CORE	DRAINABLE BASE	COMMENTS
8	3.0	NO	NO	RUTTING

NOTE:
- NO PCC UNDER ANY CORES
- NO CORES OVER ASPHALTED
- NO SHOULDER CORES

REMOVAL AND DISPOSAL OF GUARD RAIL

207+14.5 STA ~~206+82~~ TO 208+~~06~~ RT 32
209+25 STA ~~208+94~~ TO 211+~~57~~ RT 89
64.5 STA 214+~~22~~ TO ~~221+60~~ RT 222+02
218+29 STA ~~217+88~~ TO 222+~~50~~ LT 90
233+34 STA ~~232+91~~ TO 235+~~04~~ RT 46.5
57 STA 233+~~10~~ TO 235+~~10~~ LT 57
239+18 STA ~~238+58~~ TO 246+00 LT

MANUFACTURED TERMINAL SECTION, FLARED

207+14.5 STA ~~206+82~~ TO 207+~~19~~ RT 52
64.5 STA 211+~~20~~ TO ~~211+57~~ RT 212+02
64.5 STA 221+~~23~~ TO ~~221+60~~ RT 222+02
52.5 STA 222+~~13~~ TO 222+~~50~~ LT 90
233+34 STA ~~232+91~~ TO 233+~~28~~ RT 71.5
57 STA 233+~~10~~ TO 233+~~47~~ LT 94.5
235+09 STA ~~234+67~~ TO 235+~~04~~ RT 46.5
235+19.5 STA ~~234+73~~ TO 235+~~10~~ LT 57
239+17 STA ~~238+58~~ TO ~~238+95~~ LT 239+54

STA 214+27 - 214+64.5 RT
STA 217+90 - 218+27.5 LT

STEEL BEAM GUARD RAIL, GALVANIZED

52 STA 207+~~19~~ TO 211+~~20~~ RT 64.5
27 STA 214+~~22~~ TO 221+~~23~~ RT 64.5
218+27.5 STA ~~217+88~~ TO 222+~~13~~ LT 52.5
71.5 STA 233+~~28~~ TO ~~234+67~~ RT 235+09
94.5 STA 233+~~47~~ TO ~~234+73~~ LT 235+19.5
239+54 STA ~~238+95~~ TO 246+00 LT

ANCHOR FOR STEEL BEAM RAIL

~~STA 214+22 RT - 2~~
~~STA 217+88 LT - 2~~

LEGEND

N	= NEW
R	= REMOVE
R&S	= REMOVE & SALVAGE
S	= SALVAGE
RET	= RETAIN
B-TO-B	= BACK TO BACK
	CATCH BASIN/DI
	EXISTING THROAT DI
(N.W.)	NO WORK REQUIRED (TYP. FOR W.V.'S, C.S.'S, D.I.'S, C.B.'S WHERE NOTED)
	YIELDING MARKER POST
	UTILITY POLE
	DRIVE

PAVING PROJECT LAYOUT SHEET #8

DESIGNED BY	BCE/PJM — DATE 6-07
DRAWN BY	C.E.A., INC. — DATE 6-07
DESIGN FILE NO.	p06cl62.dgn
PRF FILE	p06cl62ppl8.i — DATE PLOTTED 03-NOV-2009
PROJ. NAME	**BELVIDERE – MONTGOMERY**
PROJ. NO.	**STP 2619(1)S**
SHEET	**16** OF **33** SHEETS

TEMPORARY 4in YELLOW LINE (PAINT)
DURABLE 4in YELLOW LINE (THERMOPLASTIC)

STA 246+00 TO ~~293+83~~ 295+10 SOLID LT&RT

TEMPORARY 4in WHITE LINE (PAINT)
DURABLE 4in WHITE LINE (THERMOPLASTIC)

STA 246+00 TO ~~293+83~~ 295+10 SOLID LT&RT

~~DITCHING LOCATIONS (REFER TO SHEET 8 FOR DETAILS)~~

STA 246+70 TO 255+80 RT
STA 259+20 TO ~~274+20~~ RT
STA 277+20 TO 286+30 RT

RELOCATE MAILBOX, SINGLE SUPPORT

STA 269+90 LT - 1

~~REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S~~

~~STA 293+40 RT~~

255+15 89
STA ~~254+49~~ TO 257+~~24~~ LT
REMOVAL AND DISPOSAL
OF GUARD RAIL
255+15 255+52
STA ~~254+49~~ TO ~~254+86~~ LT
INSTALL MANUFACTURED
TERMINAL SECTION, FLARED

255+52 257+52
STA ~~254+86~~ TO ~~256+87~~ LT
INSTALL STEEL BEAM
GUARD RAIL, GALVANIZED
257+52 89
STA ~~256+87~~ TO 257+~~24~~ LT
INSTALL MANUFACTURED
TERMINAL SECTION, FLARED

BRIDGE #14
STA 257+77 - MM 4.884
(FIELD MEASURED)
RECLAIM & PAVE

258+63 260+49
STA ~~257+91~~ TO ~~259+78~~ LT
REMOVAL AND DISPOSAL
OF GUARD RAIL
258+63 259+00
STA ~~257+91~~ TO ~~258+28~~ LT
INSTALL MANUFACTURED
TERMINAL SECTION, FLARED

259+00 260+13
STA ~~258+28~~ TO ~~259+41~~ LT
INSTALL STEEL BEAM
GUARD RAIL, GALVANIZED
260+13 260+50
STA ~~259+41~~ TO ~~259+78~~ LT
INSTALL MANUFACTURED
TERMINAL SECTION, FLARED

PAVEMENT CORES -

#	TOTAL DEPTH (in)	SOLID CORE	DRAINABLE BASE	COMMENTS
9	4.5	NO	NO	1" RUTTING

NOTE:
- NO PCC UNDER ANY CORES
- NO CORES OVER ASPHALTED
- NO SHOULDER CORES

93
STA 246+00 TO 246+~~46~~ LT
REMOVAL AND DISPOSAL
OF GUARD RAIL
54
STA 246+00 TO 246+~~09~~ LT
INSTALL STEEL BEAM
GUARD RAIL, GALVANIZED
54 92
STA 246+~~09~~ TO 246+~~46~~ LT
INSTALL MANUFACTURED
TERMINAL SECTION, FLARED

264+35 273+35
STA ~~263+67~~ TO ~~272+67~~ LT
REMOVAL AND DISPOSAL
OF GUARD RAIL
264+35 72.5
STA ~~263+67~~ TO 264+~~04~~ LT
INSTALL MANUFACTURED
TERMINAL SECTION, FLARED

STA 246+00
MATCH LINE - SEE PREVIOUS SHEET
14.5
TO BELVIDERE
248+00
250+00 MONTGOMERY
VT ROUTE 118
252+00
254+00
256+00
15ft
24in RCP
24in RCP
6ft MULTI-PLATE
258+00
15ft
260+00 11ft
3ft
11ft
EX. PAVE. WIDTH 21.5ft
262+00
SOUTHBOUND
NORTHBOUND
264+00
14ft 14.5
15in RCP
266+00
9
268+00
STA 269+00
MATCH LINE - SEE BELOW
TO ENOSBURG
DURABLE DOUBLE 4in YELLOW CENTERLINE
DURABLE 4in WHITE LINE
24in CSP

CURVE #32
PC = 254+50
PT = 261+60
R = 1,200ft - RT
SEE SHEET 27 FOR
SUPERELEVATION DIAGRAM

255+15
258+63
264+35

REMOVAL AND DISPOSAL OF GUARD RAIL
STA 246+00 TO 246+~~46~~ LT 93
STA ~~254+49~~ TO 257+~~24~~ LT 89
STA ~~257+91~~ TO ~~259+78~~ LT 260+49
STA ~~263+67~~ TO ~~272+67~~ LT 273+35
STA 273+~~25~~ TO ~~278+25~~ LT
98 279+02

MANUFACTURED TERMINAL SECTION, FLARED
54 STA 246+~~09~~ TO 246+~~46~~ LT 92
255+15 STA ~~254+49~~ TO ~~254+86~~ LT 255+52
257+52 STA ~~256+87~~ TO 257+~~24~~ LT 89
258+63 STA ~~257+91~~ TO ~~258+28~~ LT 259+00
260+13 STA ~~259+41~~ TO ~~259+78~~ LT 260+50
264+35 STA ~~263+67~~ TO 264+~~04~~ LT 72.5
97.5 STA 272+~~30~~ TO ~~272+67~~ LT 273+35
98 STA 273+~~25~~ TO ~~273+62~~ LT 274+35
278+65 STA ~~277+88~~ TO ~~278+25~~ LT 279+02

STEEL BEAM GUARD RAIL, GALVANIZED
STA 246+00 TO 246+~~09~~ LT 54
255+52 STA ~~254+86~~ TO ~~256+87~~ LT 257+52
259+00 STA ~~258+28~~ TO ~~259+41~~ LT 260+13
72.5 STA 264+~~04~~ TO 272+~~30~~ LT 97.5
60 STA 275+~~62~~ TO ~~277+88~~ LT 278+65

STEEL BEAM GUARD RAIL, GALVANIZED w/8 FEET POSTS
STA ~~273+62~~ TO 275+~~62~~ LT
274+35 60

98 274+35
STA 273+~~25~~ TO ~~273+62~~ LT
INSTALL MANUFACTURED
TERMINAL SECTION, FLARED
274+35 60
STA ~~273+62~~ TO 275+~~62~~ LT
INSTALL STEEL BEAM
GUARD RAIL, GALVANIZED
w/8 FEET POSTS
98 279+02
STA 273+~~25~~ TO ~~278+25~~ LT
REMOVAL AND DISPOSAL OF GUARD RAIL 500'
60 278+65
STA 275+~~62~~ TO ~~277+88~~ LT
INSTALL STEEL BEAM
GUARD RAIL, GALVANIZED
278+65 279+02
STA ~~277+88~~ TO ~~278+25~~ LT
INSTALL MANUFACTURED
TERMINAL SECTION, FLARED

STA 269+90 LT
RELOCATE MAILBOX
SINGLE SUPPORT

72.5 97.5
STA 264+~~04~~ TO 272+~~30~~ LT
INSTALL STEEL BEAM
GUARD RAIL, GALVANIZED
97.5 273+35
STA 272+~~30~~ TO ~~272+67~~ LT
INSTALL MANUFACTURED
TERMINAL SECTION, FLARED

STA 269+00
MATCH LINE - SEE ABOVE
14ft 14'6"
270+00
FIELD DRIVE
272+00 MONTGOMERY
VT ROUTE 118
274+00
276+00
15ft
278+00
280+00
282+00
284+00
EX. PAVE. WIDTH 23ft
286+00
288+00
290+00
292+00
SOUTHBOUND
NORTHBOUND
4ft
11ft
11ft
3ft
22ft
EX. PAVE. WIDTH
REHAB
TO ENOSBURG
TO BELVIDERE
30in RCP
24in RCP
24in CSP
18in RCP
24in RCP
FIELD DRIVE
DURABLE DOUBLE 4in YELLOW CENTERLINE
DURABLE 4in WHITE LINE

STA 275+60 LT
RELOCATE MAILBOX
SINGLE SUPPORT

CURVE #33
PC = 269+60
PT = 273+50
R = 4,000ft - RT
SEE SHEET 28 FOR
SUPERELEVATION DIAGRAM

CURVE #34
PC = 280+00
PT = 285+70
R = 1,050ft - LT
SEE SHEET 28 FOR
SUPERELEVATION DIAGRAM

VT ROUTE 118
STA 293+83 = MM 5.565
END PROJECT STP 2619(1)S

STONE FILL DITCH
STA 251+67 - 257+68 RT
STA 283+45 - 283+87 RT

265+50 - 293+83 LT
265+30 - 293+83 RT
ASPHALT CEMENT FAILED IN THE TYPE II (BASE) MIX

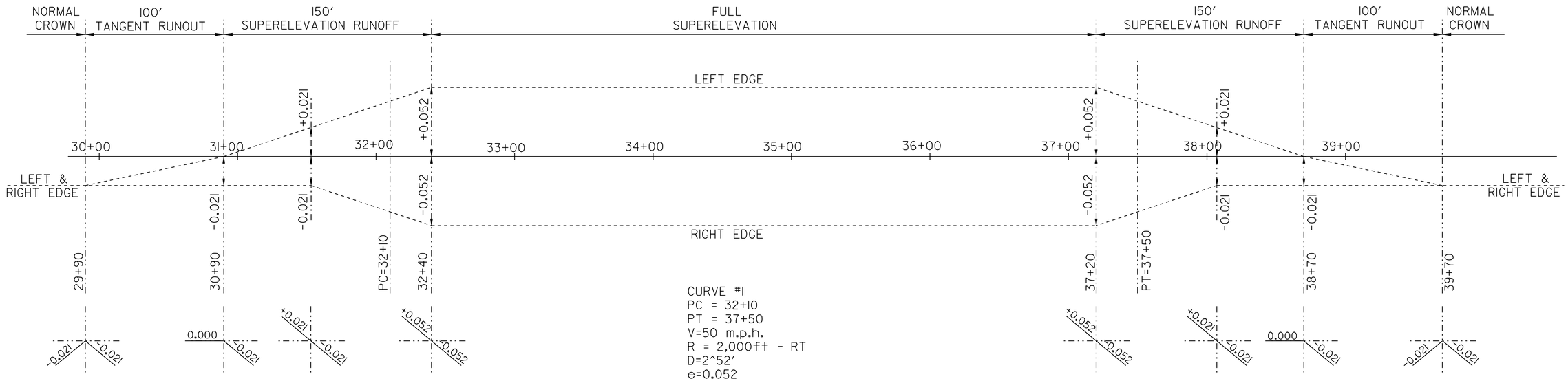
DITCHING LOCATIONS
STA 249+48 - 251+67 RT
STA 262+65 - 268+30 RT
STA 270+73 - 272+15 RT
STA 279+00 - 281+00 RT

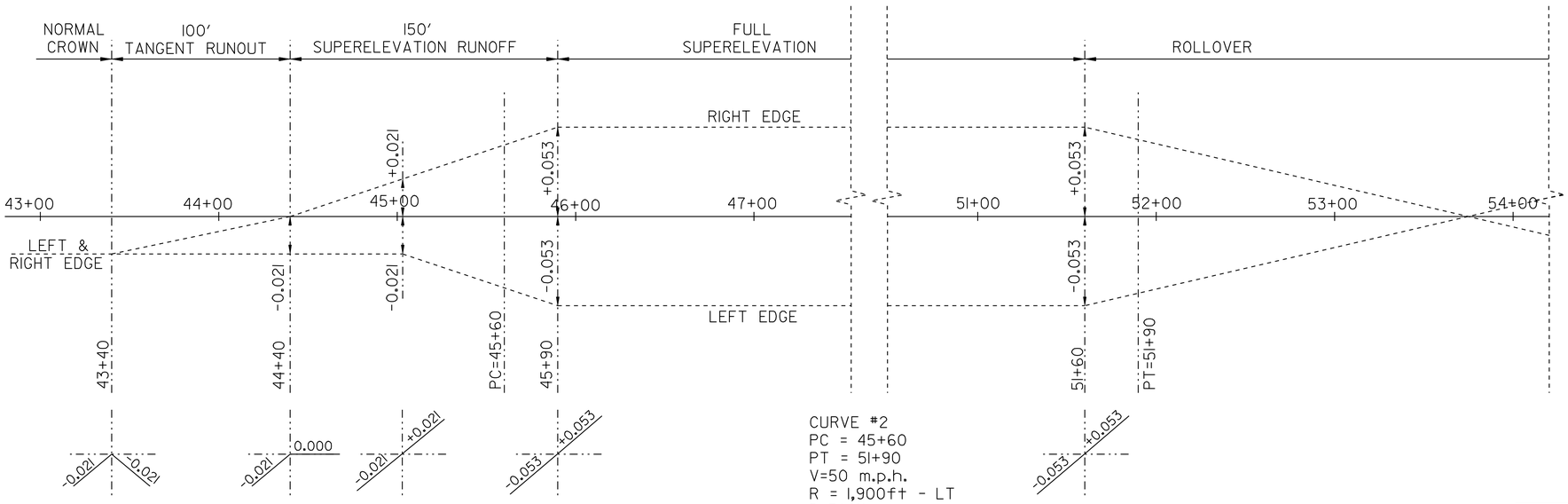
LEGEND

N	= NEW
R	= REMOVE
R&S	= REMOVE & SALVAGE
S	= SALVAGE
RET	= RETAIN
B-TO-B	= BACK TO BACK
	CATCH BASIN/DI
	EXISTING THROAT DI
(N.W.)	NO WORK REQUIRED (TYP. FOR W.V.'S, C.S.'S, D.I.'S, C.B.'S WHERE NOTED)
I	YIELDING MARKER POST
	UTILITY POLE
	DRIVE

PAVING PROJECT LAYOUT SHEET #9

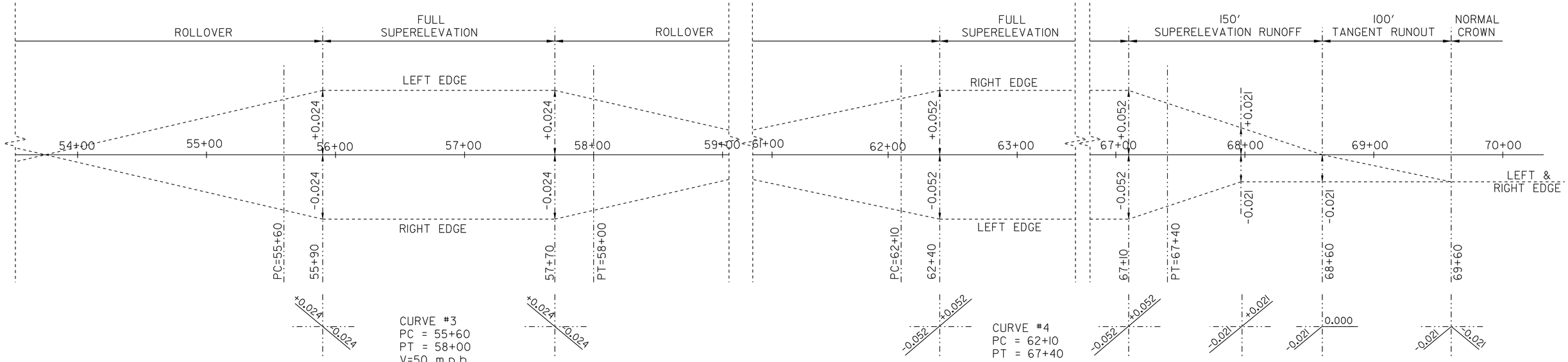
DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p06cl62.dgn
PRF FILE p06cl62ppl9.i DATE PLOTTED 03-NOV-2009
PROJ. NAME **BELVIDERE - MONTGOMERY**
PROJ. NO. **STP 2619(1)S**
SHEET **17** OF **33** SHEETS

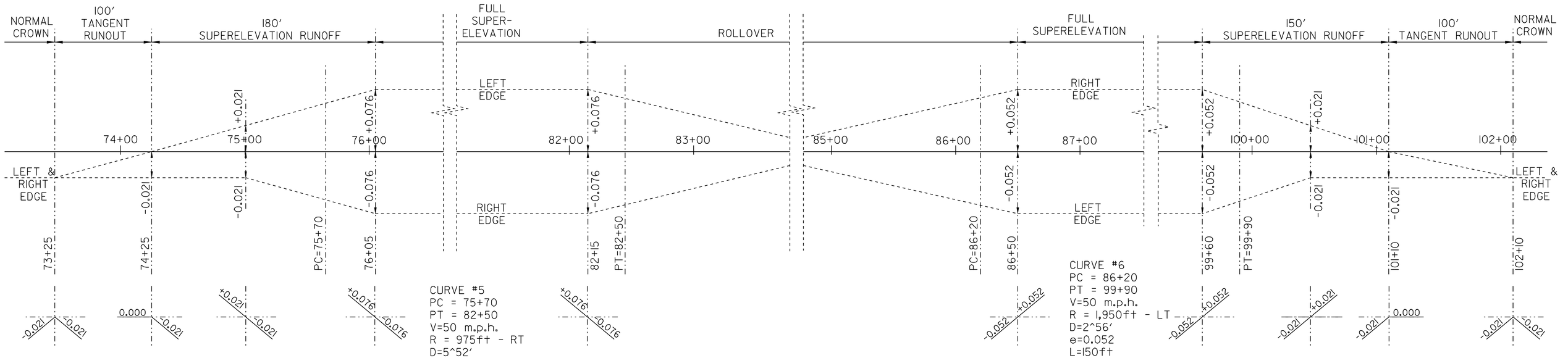




SUPERELEVATION BANKING DIAGRAM SHEET #1

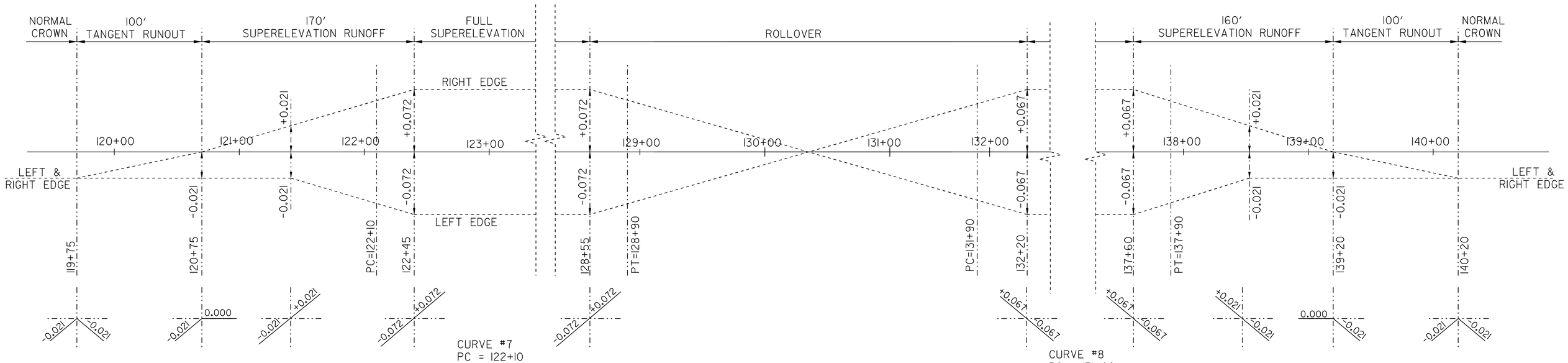
DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p06cl62.dgn
PRF FILE p06cl62sbd01.i DATE PLOTTED 03-NOV-2009 10
PROJ. NAME **BELVIDERE - MONTGOMERY**
PROJ. NO. **STP 2619(1)S**
SHEET **18** OF **33** SHEETS

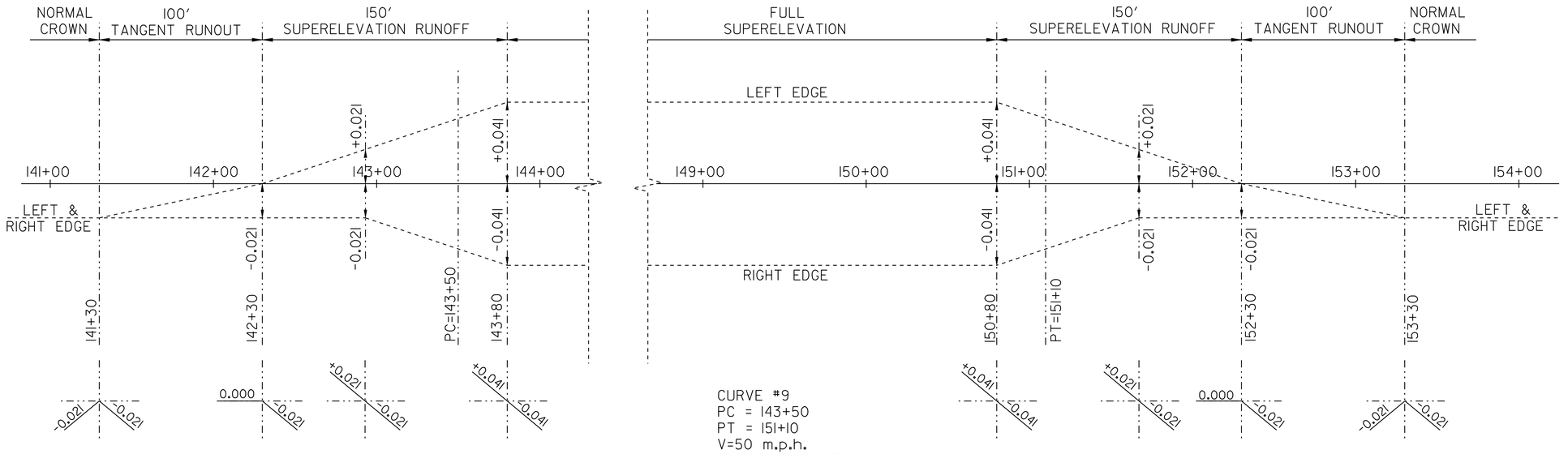




SUPERELEVATION BANKING DIAGRAM SHEET #2

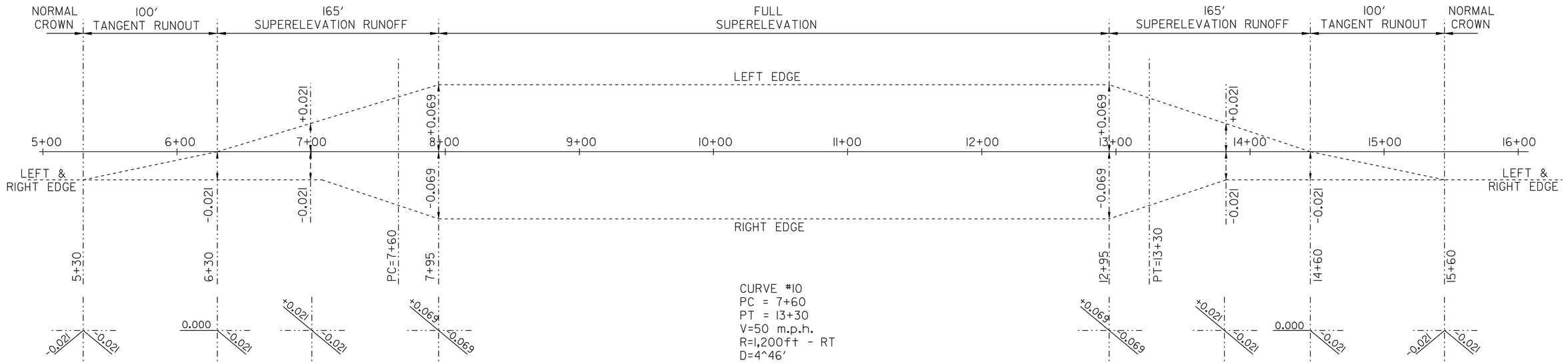
DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p06cl62.dgn		
PRF FILE	p06cl62sbd02.i	DATE PLOTTED	03-NOV-2009 10
PROJ. NAME	**BELVIDERE - MONTGOMERY**		
PROJ. NO.	**STP 2619(1)S**		
SHEET	**19** OF **33** SHEETS		



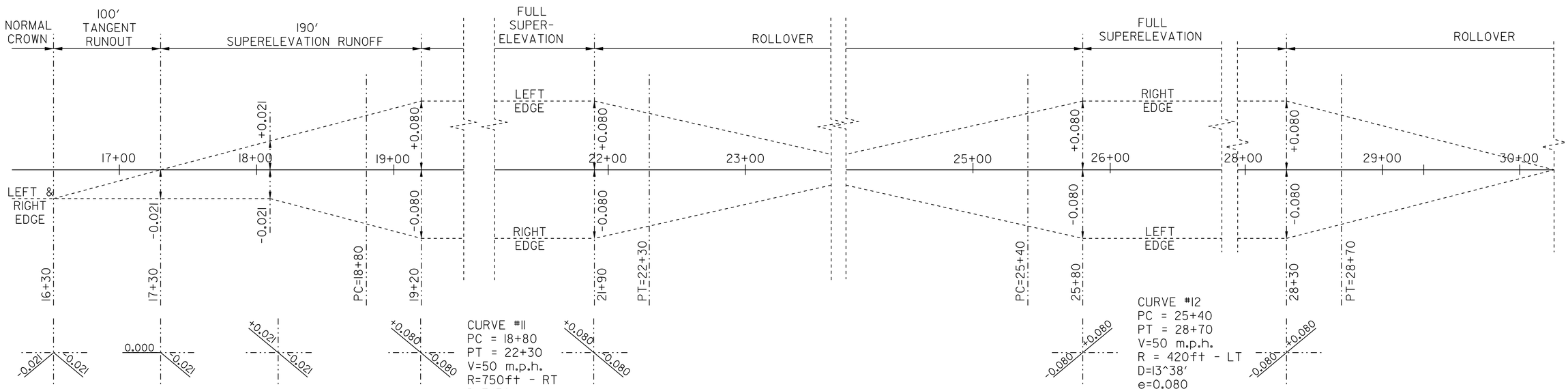


SUPERELEVATION BANKING DIAGRAM SHEET #3

DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p06cl62.dgn		
PRF FILE	p06cl62sbd03.i	DATE PLOTTED	03-NOV-2009 10
PROJ. NAME	**BELVIDERE - MONTGOMERY**		
PROJ. NO.	**STP 2619(1)S**		
SHEET	**20** OF **33** SHEETS		



CURVE #10
PC = 7+60
PT = 13+30
V=50 m.p.h.
R=1,200ft - RT
D=4^46'
e=0.069
L=165

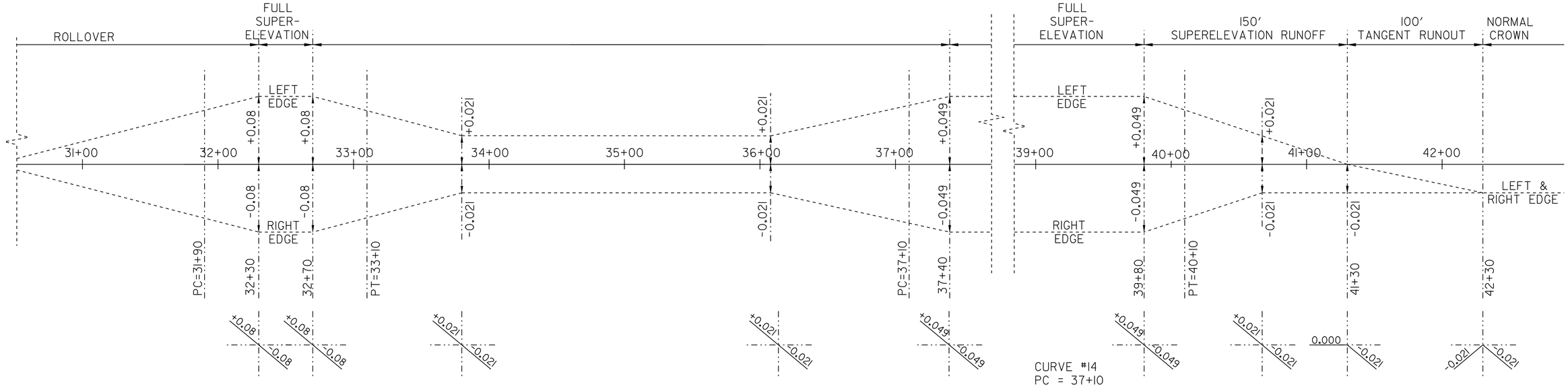


CURVE #11
PC = 18+80
PT = 22+30
V=50 m.p.h.
R=750ft - RT
D=7^38'
e=0.080
L=190

CURVE #12
PC = 25+40
PT = 28+70
V=50 m.p.h.
R = 420ft - LT
D=13^38'
e=0.080
L=190ft

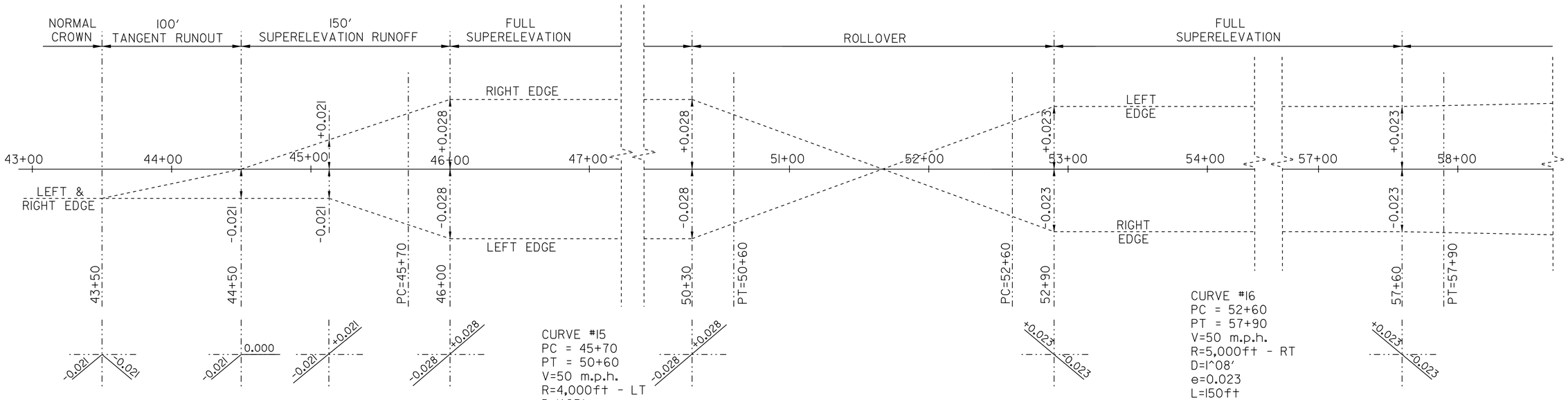
SUPERELEVATION BANKING DIAGRAM SHEET #4

DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p06cl62.dgn		
PRF FILE	p06cl62sbd04.i	DATE PLOTTED	03-NOV-2009 10
PROJ. NAME	**BELVIDERE - MONTGOMERY**		
PROJ. NO.	**STP 2619(1)S**		
SHEET	**21** OF **33** SHEETS		



CURVE #13
PC = 31+90
PT = 33+10
V=50 m.p.h.
R = 750ft - RT
D=7^38'
e=0.080
L=190ft

CURVE #14
PC = 37+10
PT = 40+10
V=50 m.p.h.
R = 2,100ft - RT
D=2^43'
e=0.049
L=150ft

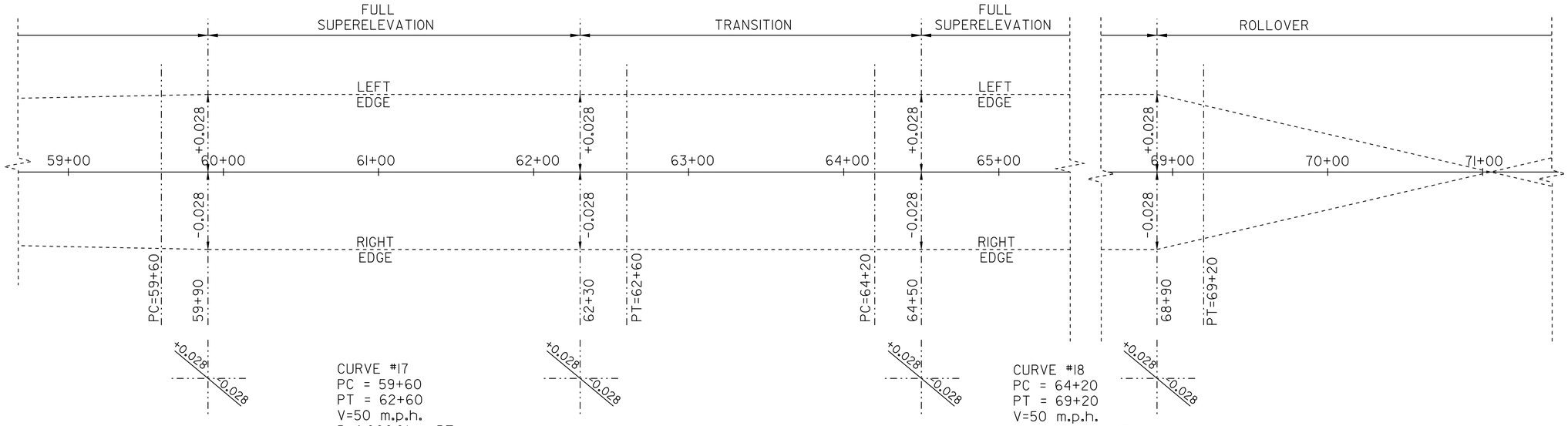


CURVE #15
PC = 45+70
PT = 50+60
V=50 m.p.h.
R=4,000ft - LT
D=1^25'
e=0.028
L=150ft

CURVE #16
PC = 52+60
PT = 57+90
V=50 m.p.h.
R=5,000ft - RT
D=1^08'
e=0.023
L=150ft

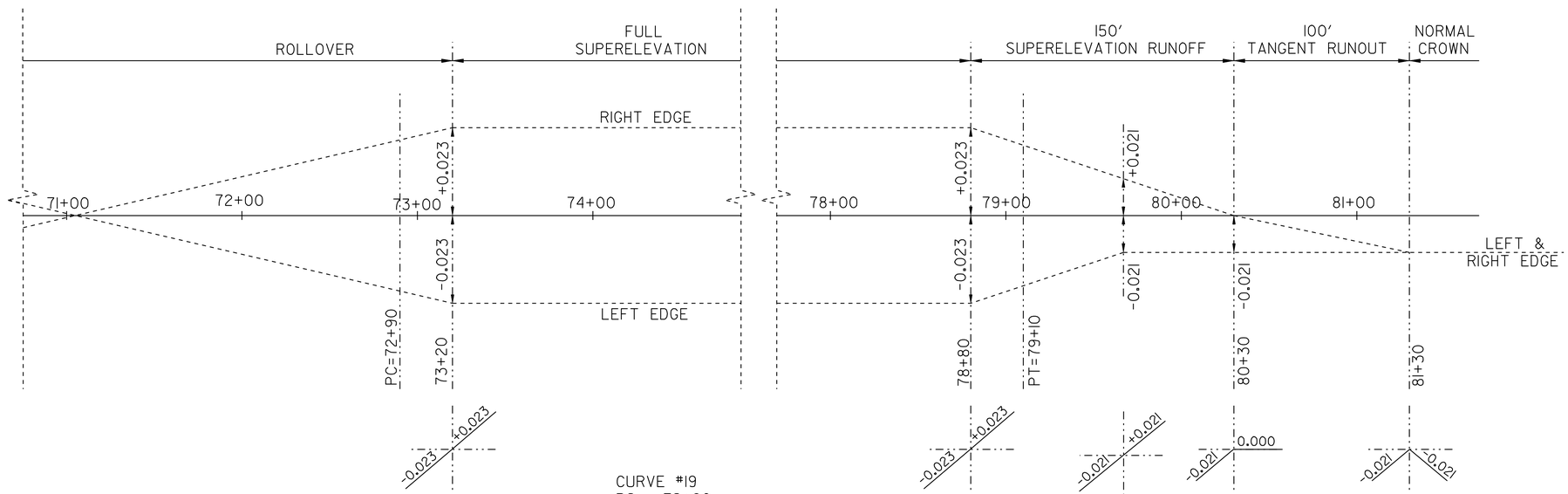
SUPERELEVATION BANKING DIAGRAM SHEET #5

DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p06cl62.dgn		
PRF FILE	p06cl62sbd05.1	DATE PLOTTED	03-NOV-2009 10
PROJ. NAME	**BELVIDERE – MONTGOMERY**		
PROJ. NO.	**STP 2619(1)S**		
SHEET **22** OF **33** SHEETS			



CURVE #17
PC = 59+60
PT = 62+60
V=50 m.p.h.
R=4,000ft - RT
D=1^25'
e=0.028
L=150ft

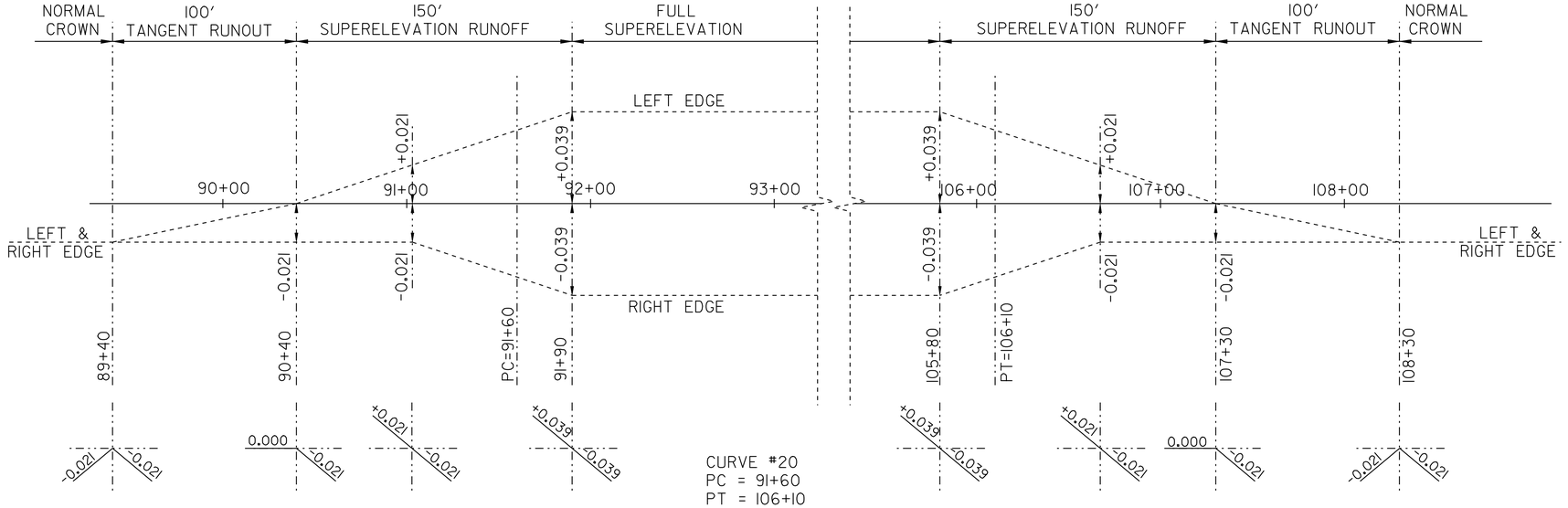
CURVE #18
PC = 64+20
PT = 69+20
V=50 m.p.h.
R=4,200ft - RT
D=1^22'
e=0.028
L=150



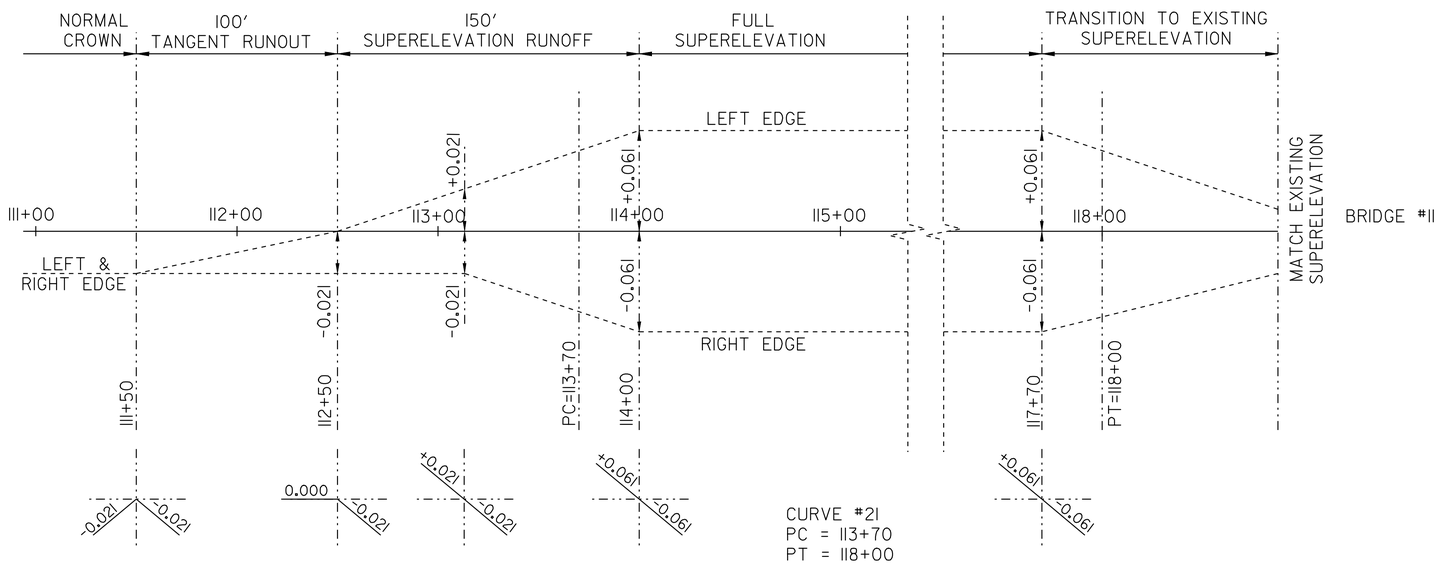
CURVE #19
PC = 72+90
PT = 79+10
V=50 m.p.h.
R = 5,000ft - LT
D=1^08'
e=0.023
L=150ft

SUPERELEVATION BANKING DIAGRAM SHEET #6

DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p06cl62.dgn
PRF FILE p06cl62sbd06.1 DATE PLOTTED 03-NOV-2009 10
PROJ. NAME **BELVIDERE - MONTGOMERY**
PROJ. NO. **STP 2619(1)S**
SHEET **23** OF **33** SHEETS



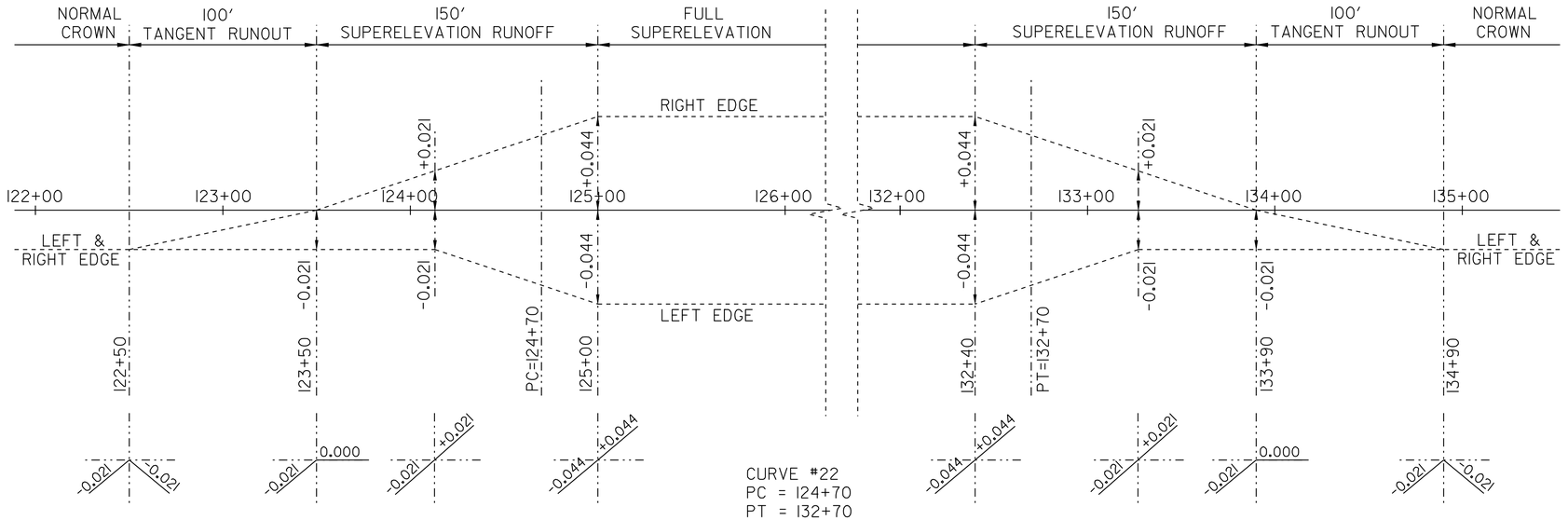
CURVE #20
PC = 91+60
PT = 106+10
V=50 m.p.h.
R = 2,800ft - LT
D=2^03'
e=0.039
L=150



CURVE #21
PC = 113+70
PT = 118+00
V=50 m.p.h.
R = 1,500ft - RT
D=3^49'
e=0.061
L=150

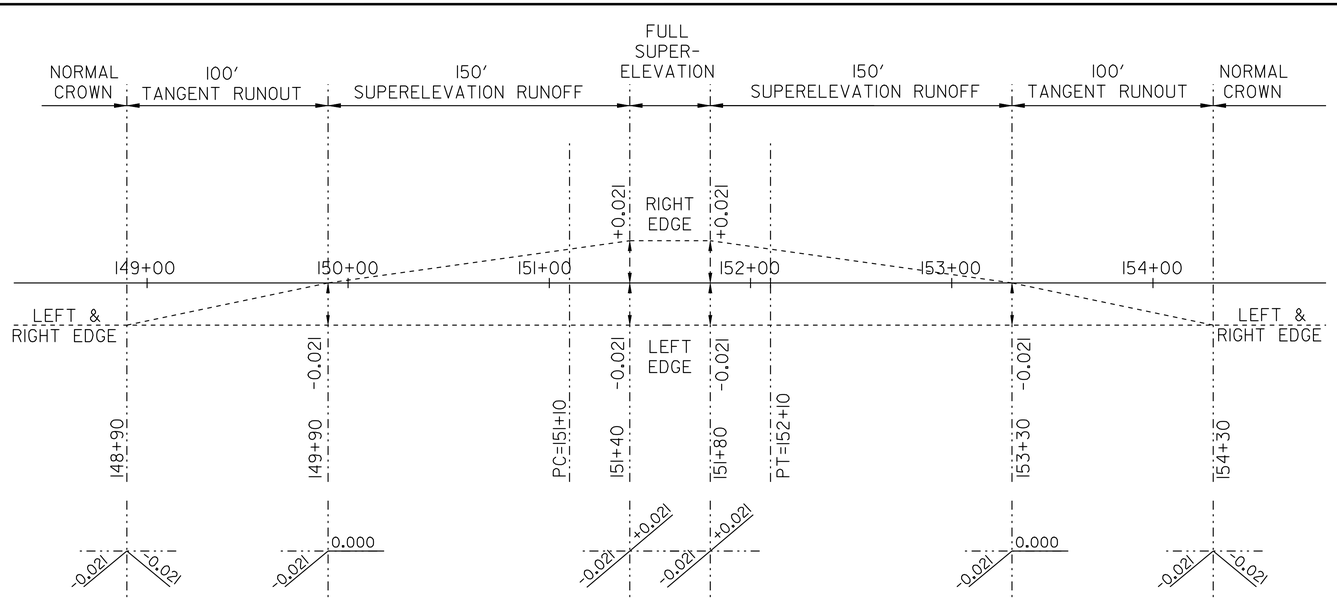
SUPERELEVATION BANKING DIAGRAM SHEET #7

DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p06cl62.dgn		
PRF FILE	p06cl62sbd07.i	DATE PLOTTED	03-NOV-2009 10
PROJ. NAME	**BELVIDERE - MONTGOMERY**		
PROJ. NO.	**STP 2619(1)S**		
SHEET	**24** OF **33** SHEETS		

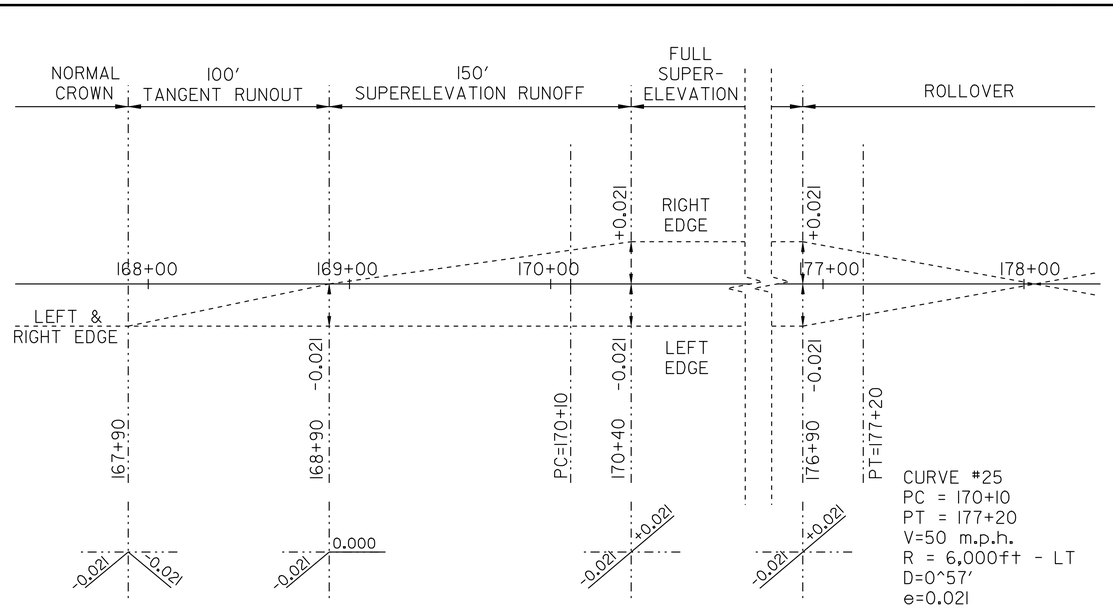


CURVE #22
PC = 124+70
PT = 132+70
V=50 m.p.h.
R = 2,450ft - LT
D=2^20'
e=0.044
L=150

CURVE #23
PC = 144+00
PT = 146+00
V=50 m.p.h.
R = 10,000ft - LT
D=0^34'
NORMAL CROWN



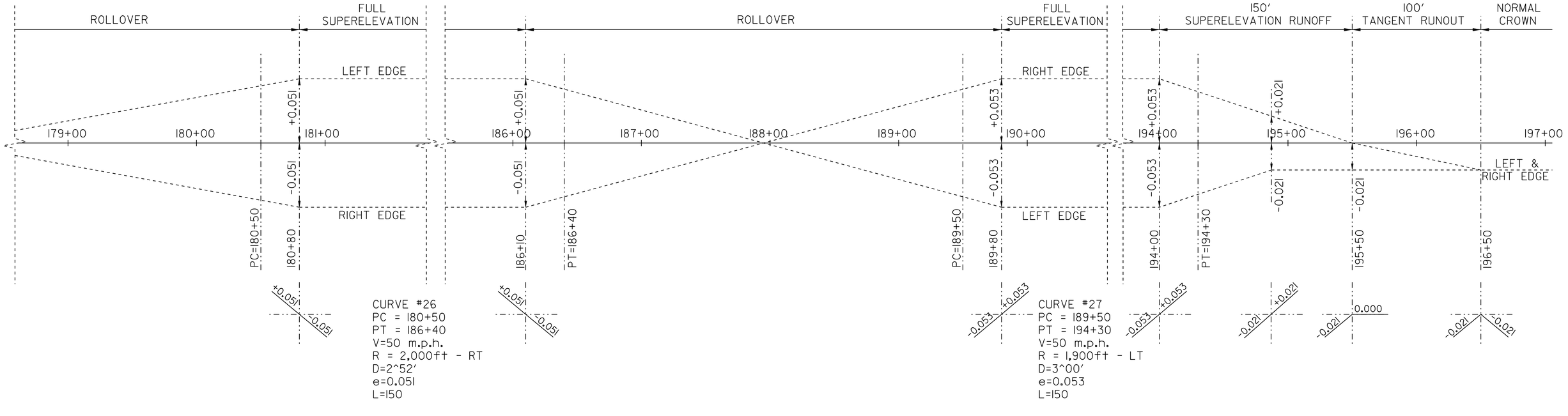
CURVE #24
PC = 151+10
PT = 152+10
V=50 m.p.h.
R = 7,500ft - LT
D=0^45'
e=R.C.
(REMOVE ADVERSE CROWN, SUPERELEVATE AT NORMAL CROWN SLOPE)
L=150

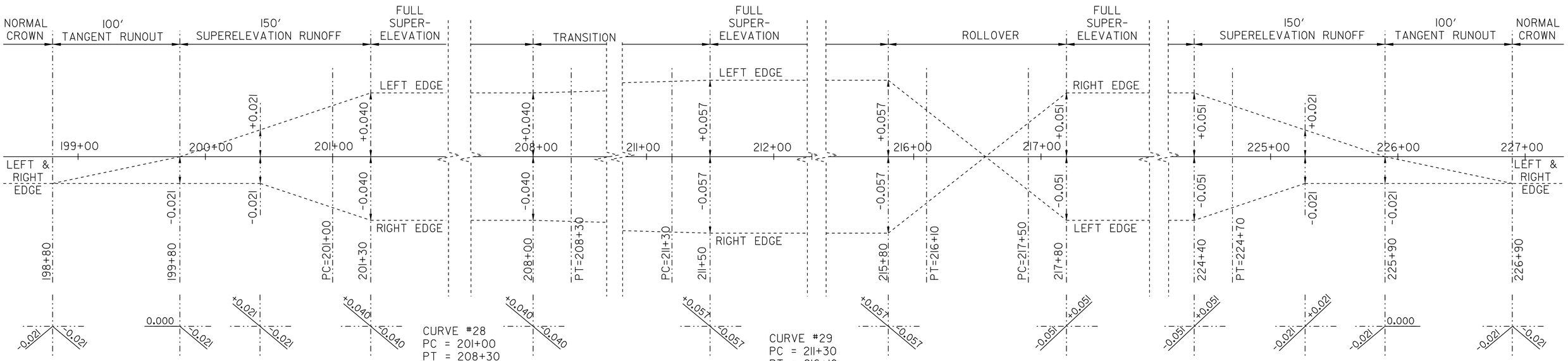


CURVE #25
PC = 170+10
PT = 177+20
V=50 m.p.h.
R = 6,000ft - LT
D=0^57'
e=0.021
L=150

SUPERELEVATION BANKING DIAGRAM SHEET #8

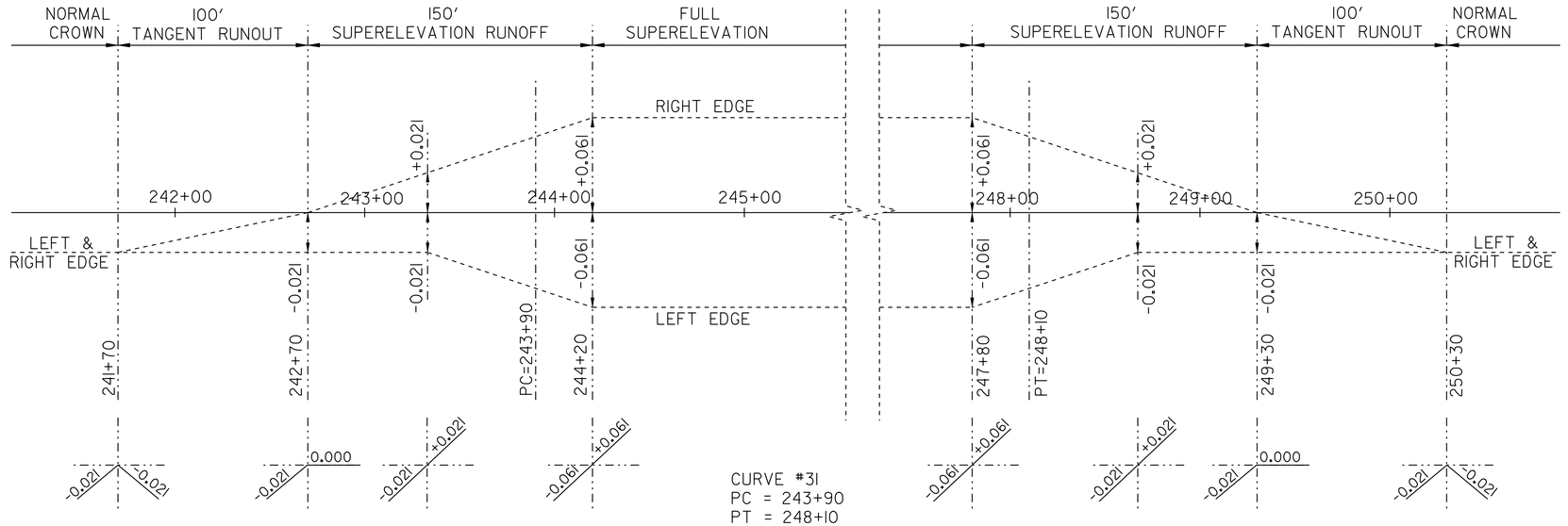
DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p06cl62.dgn		
PRF FILE	p06cl62sbd08.l	DATE PLOTTED	03-NOV-2009 10
PROJ. NAME	**BELVIDERE - MONTGOMERY**		
PROJ. NO.	**STP 2619(1)S**		
SHEET	**25** OF **33** SHEETS		

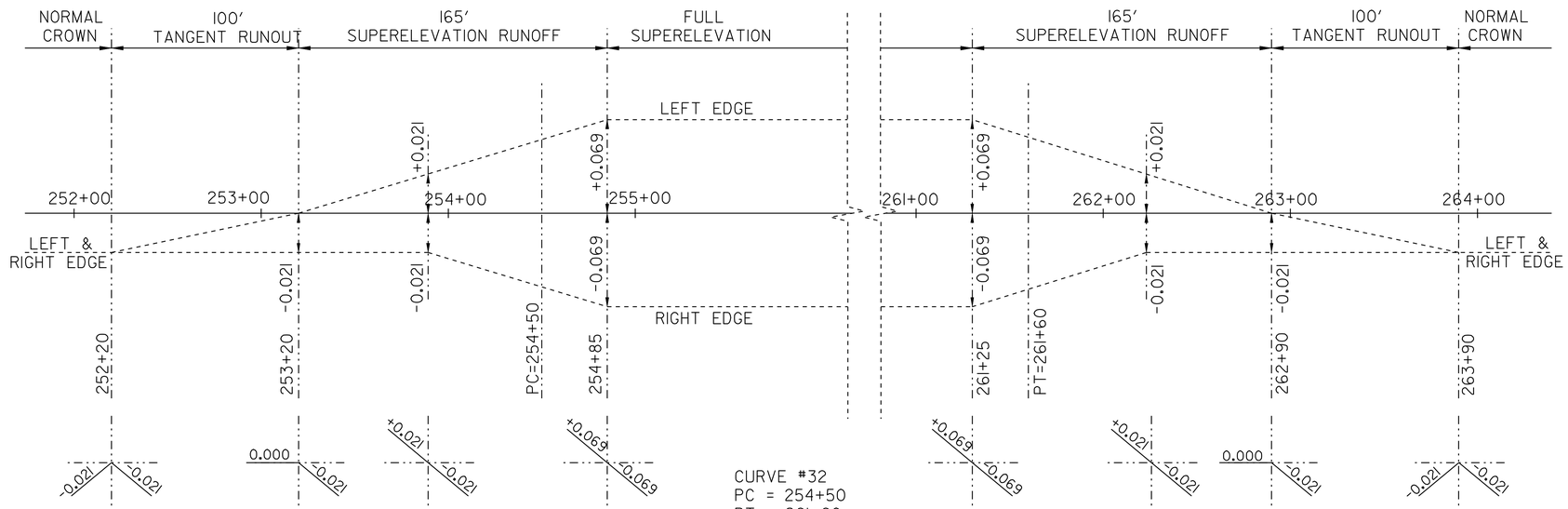




SUPERELEVATION BANKING DIAGRAM SHEET #9

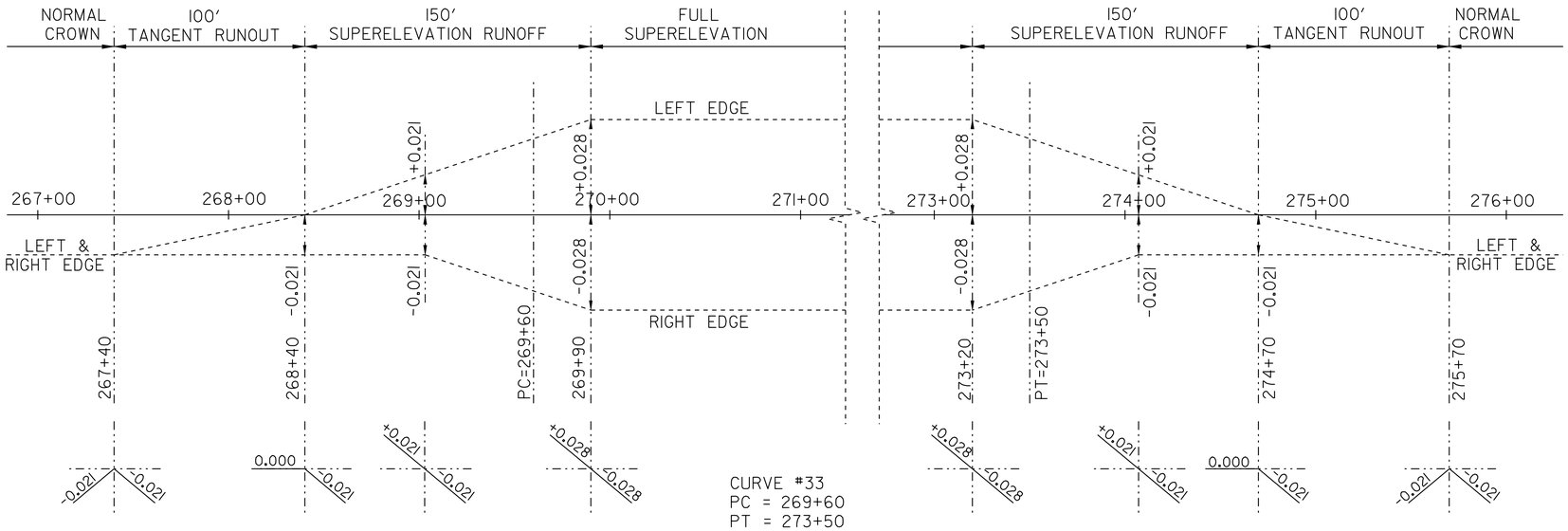
DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p06cl62.dgn		
PRF FILE	p06cl62sbd09.i	DATE PLOTTED	03-NOV-2009 10
PROJ. NAME	**BELVIDERE - MONTGOMERY**		
PROJ. NO.	**STP 2619(1)S**		
SHEET	**26** OF **33** SHEETS		



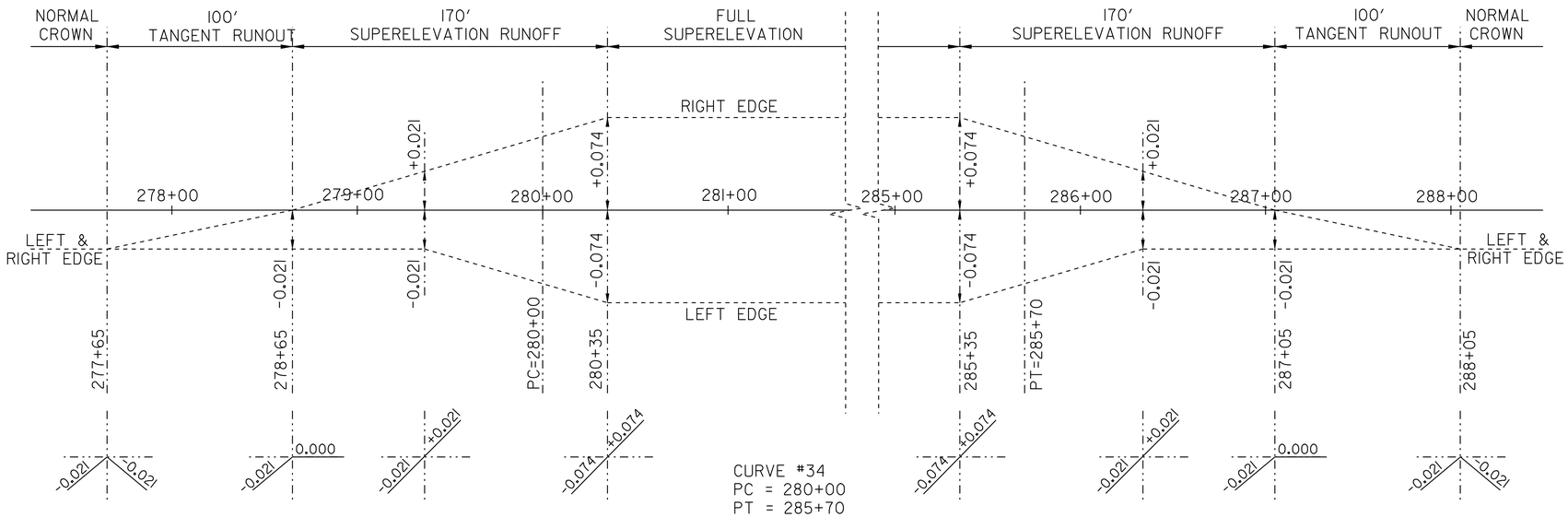


SUPERELEVATION BANKING DIAGRAM SHEET #10

DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p06cl62.dgn		
PRF FILE	p06cl62sbdl0.i	DATE PLOTTED	03-NOV-2009 10
PROJ. NAME	**BELVIDERE – MONTGOMERY**		
PROJ. NO.	**STP 2619(1)S**		
SHEET	**27** OF **33** SHEETS		



CURVE #33
PC = 269+60
PT = 273+50
V=50 m.p.h.
R = 4,000ft - RT
D=1^25'
e=0.028
L=150



CURVE #34
PC = 280+00
PT = 285+70
V=50 m.p.h.
R = 1,050ft - LT
D=5^27'
e=0.074
L=170

SUPERELEVATION BANKING DIAGRAM SHEET #11

DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p06cl62.dgn		
PRF FILE	p06cl62sbdll.l	DATE PLOTTED	03-NOV-2009 10
PROJ. NAME	**BELVIDERE – MONTGOMERY**		
PROJ. NO.	**STP 2619(1)S**		
SHEET	**28** OF **33** SHEETS		

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																						REMARKS	SIGN DETAIL	
		EA	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN	SALV TIS	RETAIN	SALVAGE	NO. OF POSTS	FLANGED CHANNEL			SQUARE STEEL (in)			ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in)			FOUNDATION	TUBULAR STEEL Ø (in)				W-SHAPE STEEL				SIGN FRAME REQUIRED		DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
															1.75	2.0	2.5			3.0	4.0	4.0 MOD		3.0	3.5	4.0	5.0	FTG. SIZE 24"	30"	WEIGHT	POST SIZE				
												lb/ft 1.12	2.0	3.0	lb/ft 1.88	2.16	3.35			lb/ft 1.3	1.7	1.7		lb/ft 7.6	9.0	10.8	14.6								
												OPTION ITEMS																							
MONTGOMERY 125+40 RT	NUTTING RD		36	12	3.00																														
148+95 LT		1 1	30 6	30 10	6.25 0.42						1			16 X		X																	BACK TO BACK		E-143 E-138
149+25 LT		1	24	30	5.0						1			14 X		X																	REFER TO STANDARD E-121 FOR PLACEMENT.		E-141
																																			E-138
152+00 RT		1	6	10	0.42																												MOUNT NEW MILE MARKER BACK TO BACK WITH EXISTING STOP SIGN		
155+45 LT		1	6	10	0.42																												MOUNT NEW MILE MARKER BACK TO BACK WITH EXISTING STOP SIGN		E-138
210+40 LT		1	6	10	0.42																												MOUNT NEW MILE MARKER BACK TO BACK WITH EXISTING STOP SIGN		E-138
214+00 LT		1 1	30 6	30 10	6.25 0.42						1			14 X		X																	BACK TO BACK		E-143 E-138
			36	12	3.00		~~1~~																										SIGN TO BE MOUNTED USING POST TOP MOUNTING BRACKET. PERPENDICULAR TO LEGAL LOAD SIGN.		
214+25 LT		1	24	30	5.0						1			14 X		X																	REFER TO STANDARD E-121 FOR PLACEMENT.		E-141
230+37 LT		1 1	30 6	30 10	6.25 0.42						1			14 X		X																	BACK TO BACK		E-143 E-138
230+67 LT		1	24	30	5.0						1			14 X		X																	REFER TO STANDARD E-121 FOR PLACEMENT.		E-141
					SF	SF	EA.	SF				LF	LF	LF 90	LF	LF 90	LF		EA.	LB	LB	LB	EA.	LB	LB	LB	LB	EA.	EA.	LB					
				PROJECT TOTALS	42 ~~36.~~ 27		~~1~~					86 ~~90~~			~~90~~																				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE ROADWAY, TRAFFIC & SAFETY DIVISION'S 'SIGN POST DESIGN GUIDELINE.'

TRAFFIC SIGN SUMMARY SHEET

PROJECT: **BELVIDERE - MONTGOMERY**
PROJECT NO.: **STP 2619(1)S**
DATE: 6-07

DESIGN FILE NAME: p06cl62.dgn
IPARM FILE NAME: p06cl62tss.i
SURVEYED BY:
SQUAD LEADER:

PLOT DATE: 03-NOV-2009 10:5
SURVEY DATE:
DRAWN BY: C.E.A., INC.
SHEET: **29** OF **33**

BRIDGE QUANTITY SHEET

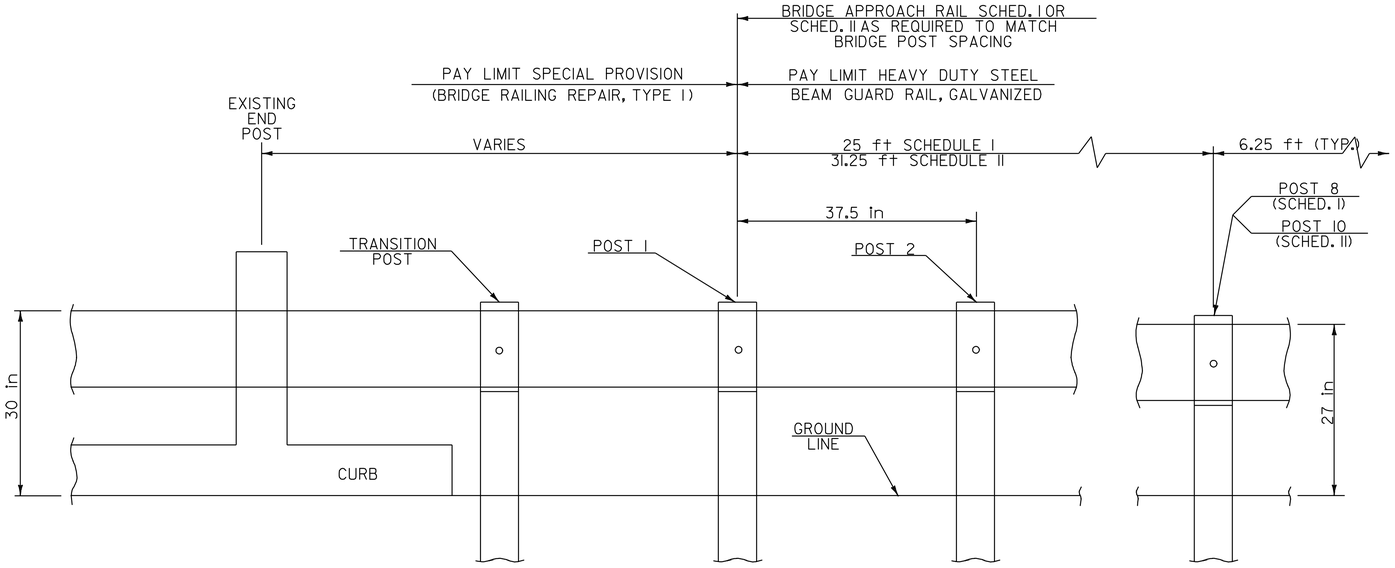
STATION	POS.	BRIDGE NO.	OFFSET BLOCK	525.10	900.640 TYPE I								REMARKS
			IN	LF	LF								
MONTGOMERY													
STA 157+05 TO 157+30	LT	12	8	25	25								
STA 157+05 TO 157+30	RT	12	8	25	25								
SUBTOTAL				50	50								
ROUNDING				--	--								
TOTALS				50	50								

NOTES

1. BRIDGE RAIL SHALL BE HEAVY DUTY STEEL BEAM RAIL.
2. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25 FEET.
3. APPROACH RAILING SHALL BE HEAVY DUTY STEEL BEAM, GALVANIZED, FOR 25 FEET FROM THE ENDS OF THE BRIDGE, UNLESS OTHERWISE INDICATED.
4. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS PRACTICAL TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH RAIL POST 1.
5. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.

ITEM 541.22	CONCRETE CLASS A	1 CY (EST)
ITEM 507.15	REINFORCING STEEL	200 LBS (EST)

AN ESTIMATED QUANTITY OF ITEM 541.22, CONCRETE CLASS A, AND ITEM 507.15, REINFORCING STEEL, HAS BEEN ADDED TO REPAIR DAMAGED BRIDGE POSTS/DECK @ POST ANCHOR BOLTS IF NECCESARY. REMOVAL OF EXISTING DAMAGED BRIDGE POSTS/DECK WILL BE AS DIRECTED BY THE ENGINEER AND WILL BE PAID FOR AS REMOVAL OF CONCRETE OR MASONRY, ITEM 529.25.



BRIDGE APPROACH RAILING

BRIDGE APPROACH RAILING

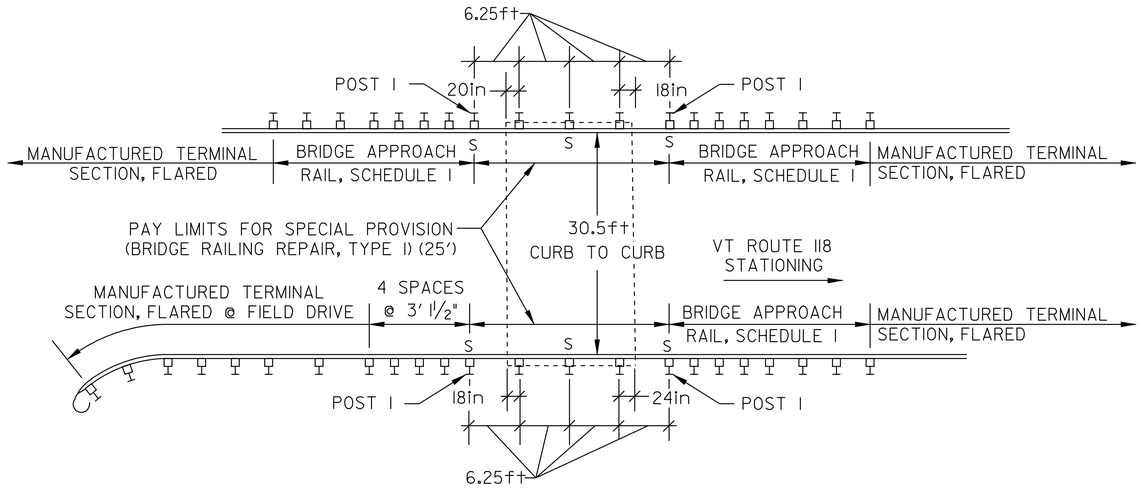
WHEN A RAIL PANEL SPLICE OCCURS AT POST NO. 1 USE SCHEDULE I FOR APPROACH RAILING WHEN A RAIL PANEL SPLICE OCCURS AT BRIDGE END POST USE SCHEDULE II FOR APPROACH RAILING.

SCHEDULE I		
POST NO.	SPACING	PAYMENT FACTOR
1	3'-1½''	1.4 x 12.5 ft
2	3'-1½''	
3	3'-1½''	
4	3'-1½''	
5	4'-2''	1.2 x 12.5 ft
6	4'-2''	
7	4'-2''	
8	6'-3'' (TYP.)	1.0 (TYP.)
9		

SCHEDULE II		
POST NO.	SPACING	PAYMENT FACTOR
1	3'-1½''	1.4 X 18.75 ft
2	3'-1½''	
3	3'-1½''	
4	3'-1½''	
5	3'-1½''	
6	3'-1½''	
7	4'-2''	1.2 x 12.5 ft
8	4'-2''	
9	4'-2''	
10	6'-3'' (TYP.)	1.0 (TYP.)
11		

BRIDGE DETAIL SHEET #1

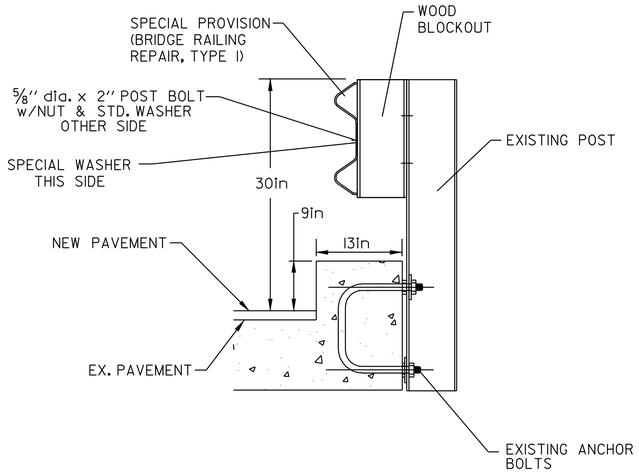
DESIGNED BY BCE/PJM DATE 8-05
DRAWN BY C.E.A., INC. DATE 8-05
DESIGN FILE NO. p06cl62.dgn
PRF FILE p06cl62bdl.1 DATE PLOTTED 03-NOV-2009 10
PROJ. NAME **BELVIDERE - MONTGOMERY**
PROJ. NO. **STP 2619(1)S**
SHEET **30** OF **33** SHEETS



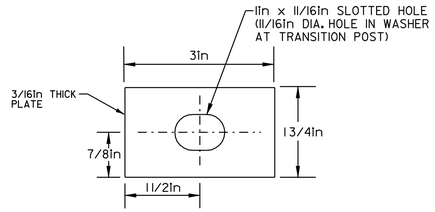
MONTGOMERY – BRIDGE #12

STA 157+15 = MM 2.976

(FIELD MEASURED)



POST DETAIL



SPECIAL WASHER DETAIL

(MATERIAL SHALL MEET AASHTO M 270M/M 270 GRADE 345)

POST DETAILS

NOTES:

1. BOLTS, NUTS & WASHERS SHALL BE GALVANIZED AND CONFORM TO SUBSECTION 714.07, EXCEPT THAT POST BOLTS SHALL CONFORM TO STANDARD G-1 REQUIREMENTS AND BE CORROSION RESISTANT.
2. POSTS, PLATE AND SPECIAL WASHER SHALL BE OF AASHTO M 270M/M 270 GRADE 345 (GRADE 50) STEEL

BRIDGE DETAIL SHEET #2

DESIGNED BY BCE/PJM DATE 6-07

DRAWN BY C.E.A., INC. DATE 6-07

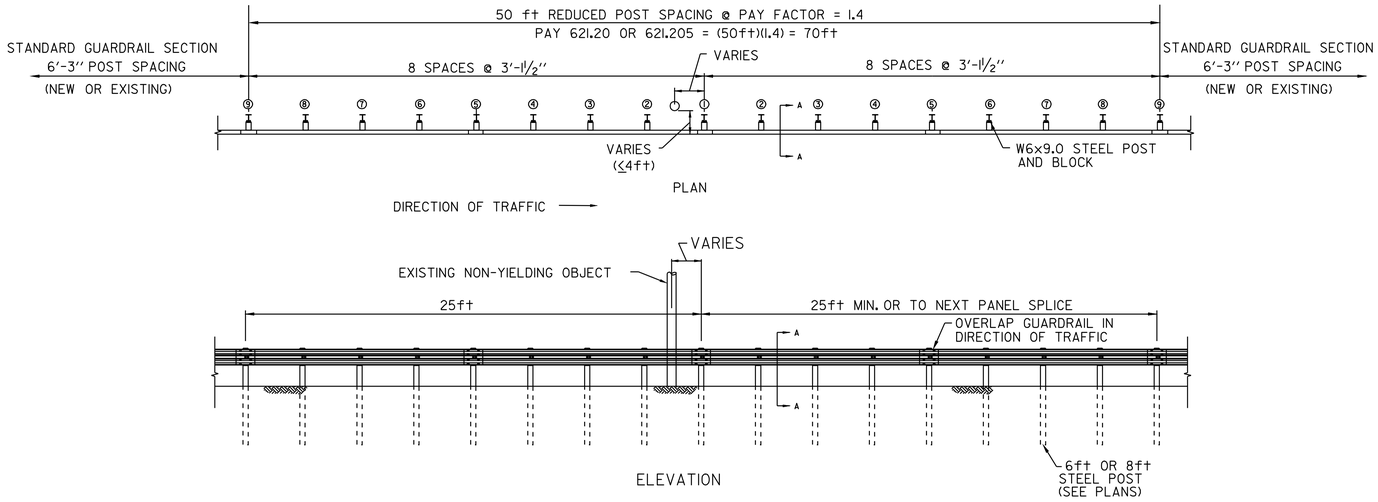
DESIGN FILE NO. p06cl62.dgn

PRF FILE p06cl62bd2.i DATE PLOTTED 03-NOV-2009 10

PROJ. NAME **BELVIDERE – MONTGOMERY**

PROJ. NO. **STP 2619(1)S**

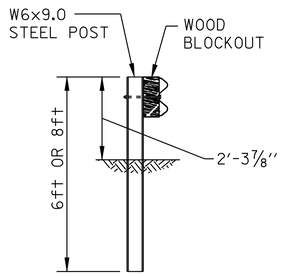
SHEET **31** OF **33** SHEETS



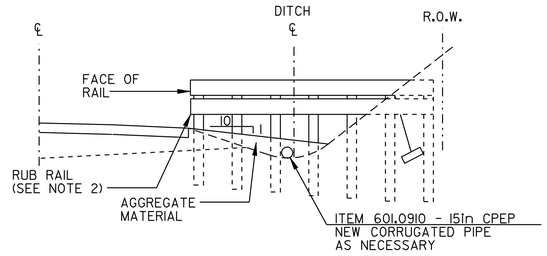
NON-YIELDING OBJECT APPROACH DETAIL

MONTGOMERY

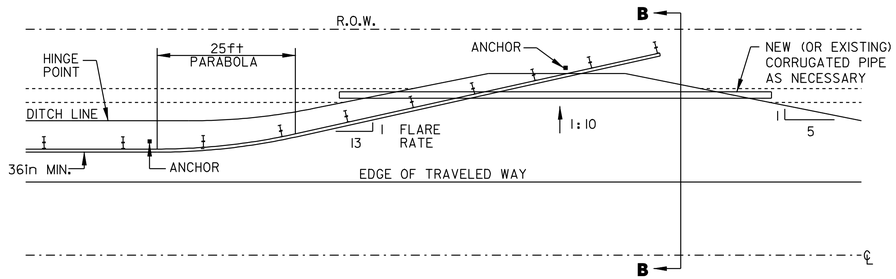
STA 16+20 LT
STA 35+25 LT
STA 211+05 RT



SECTION A–A



SECTION B–B



DETAIL FOR BURIED GUARDRAIL ENDS INTO BACKSLOPES

NOT TO SCALE

MONTGOMERY

STA 20+14 LT	STA 83+84 LT
STA 71+77 RT	STA 149+55 RT
STA 72+03 LT	STA 182+27 RT
STA 79+40 LT	STA 214+22 RT
STA 81+80 RT	STA 217+88 LT

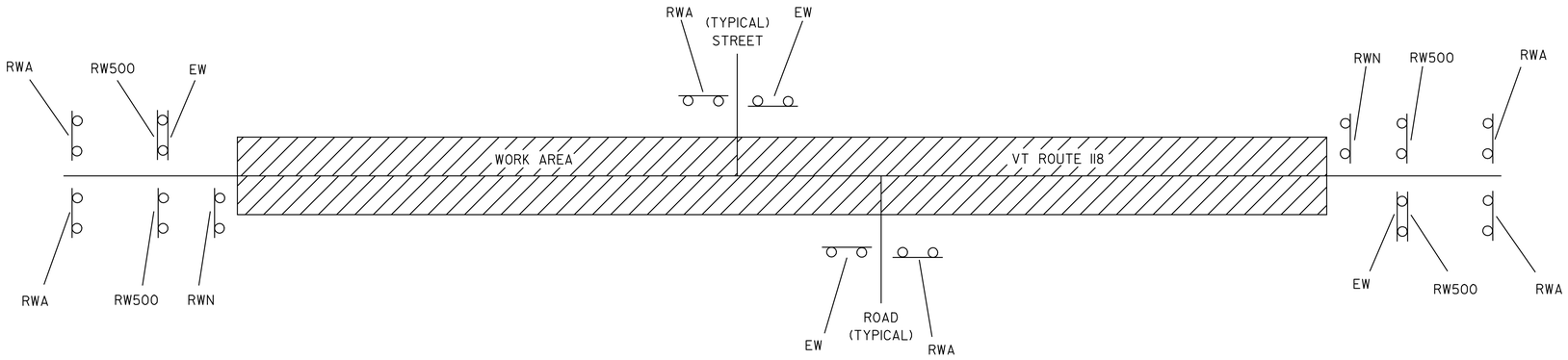
NOTES:

1. PRIMARY RAIL SHALL REMAIN AT A CONSTANT HEIGHT (LEVEL) RELATIVE TO THE HEIGHT OF RAIL AT THE EDGE OF SHOULDER.
2. ADDITION OF RUB RAIL IS REQUIRED WHEN OPENING BENEATH PRIMARY RAIL EXCEEDS 18in. RUB RAIL EXTENDS FROM THE EDGE OF SHOULDER TO THE BACK SLOPE.

DATUM
VERTICAL N/A
HORIZONTAL N/A

NON-YIELDING OBJECT APPROACH and BURIED END TERMINAL DETAIL SHEET

DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p06cl62.dgn
PRF FILE p06cl62det.1 DATE PLOTTED 03-NOV-2009 10
PROJ. NAME **BELVIDERE - MONTGOMERY**
PROJ. NO. **STP 2619(1)S**
SHEET **32** OF **33** SHEETS



LIST OF
CONSTRUCTION SIGNS

TOWN HIGHWAY	RWA	RW500	EW	RWN
BELVIDERE				
BEGIN PROJECT	2	2	1	1
MONTGOMERY				
NUTTING RD	1		1	
S. BRANCH RD	1		1	
REAGAN RD	1		1	
SUNDELL RD	1		1	
GIBOU RD	1		1	
SOUTH BROOK RD	1		1	
SOUTH BROOK RD	1		1	
END PROJECT	2	2	1	1
TOTALS	11	4	9	2

LEGEND

RWA = ROAD WORK AHEAD
RW500 = ROAD WORK 500 FEET
EW = END WORK
RWN = ROAD WORK NEXT 8 MILES

CONSTRUCTION APPROACH SIGNING

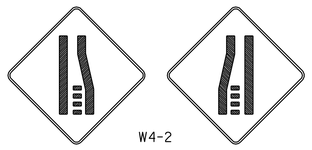
SEE STANDARDS E-100 AND E-100A FOR SIGN PLACEMENT

PAYMENT FOR CONSTRUCTION SIGNING WILL BE MADE UNDER ITEM 641.10, TRAFFIC CONTROL.

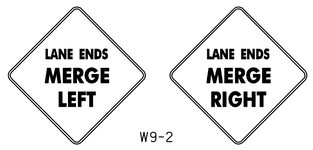
RESIDENT ENGINEER, AT HIS OR HER DISCRETION, SHALL ELIMINATE CONSTRUCTION APPROACH SIGNING AT DEAD END LOCATIONS.

NOTES:

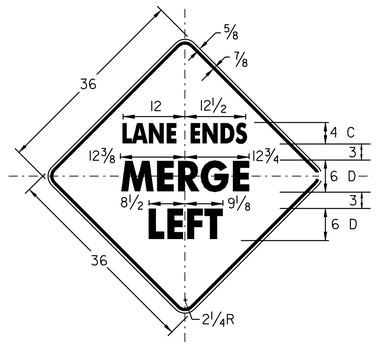
1. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL NOT BE PAID SEPARATELY BUT SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".
2. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN APPROACH PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH VTRANS STANDARD E-103. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".
3. THE MUTCD 2003 SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS, SIGNALS AND MARKINGS SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC CONTROL DEVICES ARE ERECTED OR PLACED OR EXISTING TRAFFIC CONTROL DEVICES ARE REPLACED OR REPAIRED THE EQUIPMENT, DESIGN, METHOD OF INSTALLATION, PLACEMENT OR REPAIR SHALL CONFORM TO THESE STANDARDS.
4. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.
5. ON VTRANS STANDARD E-103, SIGN W4-2 MAY BE REPLACED WITH W9-2:



W4-2



W9-2



W9-2
MATERIALS & COLORS:
PER VAOT STANDARD E-154

DATUM
VERTICAL N/A
HORIZONTAL N/A

CONSTRUCTION APPROACH SIGNING AND DETAIL SHEET

DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p06cl62.dgn
PRF FILE p06cl62cas.i DATE PLOTTED 03-NOV-2009 10
PROJ. NAME **BELVIDERE - MONTGOMERY**
PROJ. NO. **STP 2619(1)S**
SHEET **33** OF **33** SHEETS