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STATE OF VERMONT AGENCY OF TRANSPORTATION



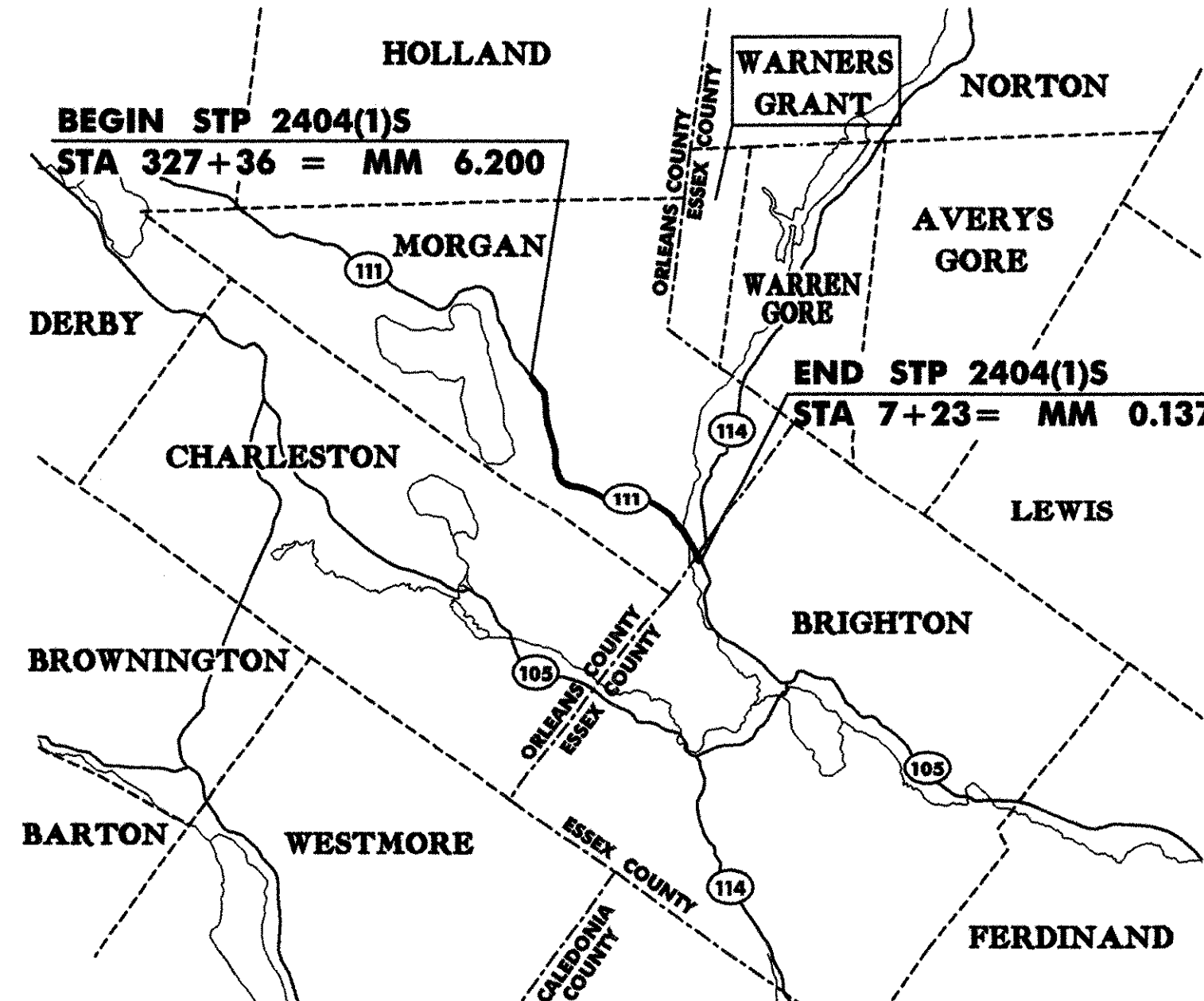
PROPOSED IMPROVEMENTS TOWNS OF MORGAN, AND BRIGHTON COUNTIES OF ORLEANS & ESSEX

VT ROUTE 111

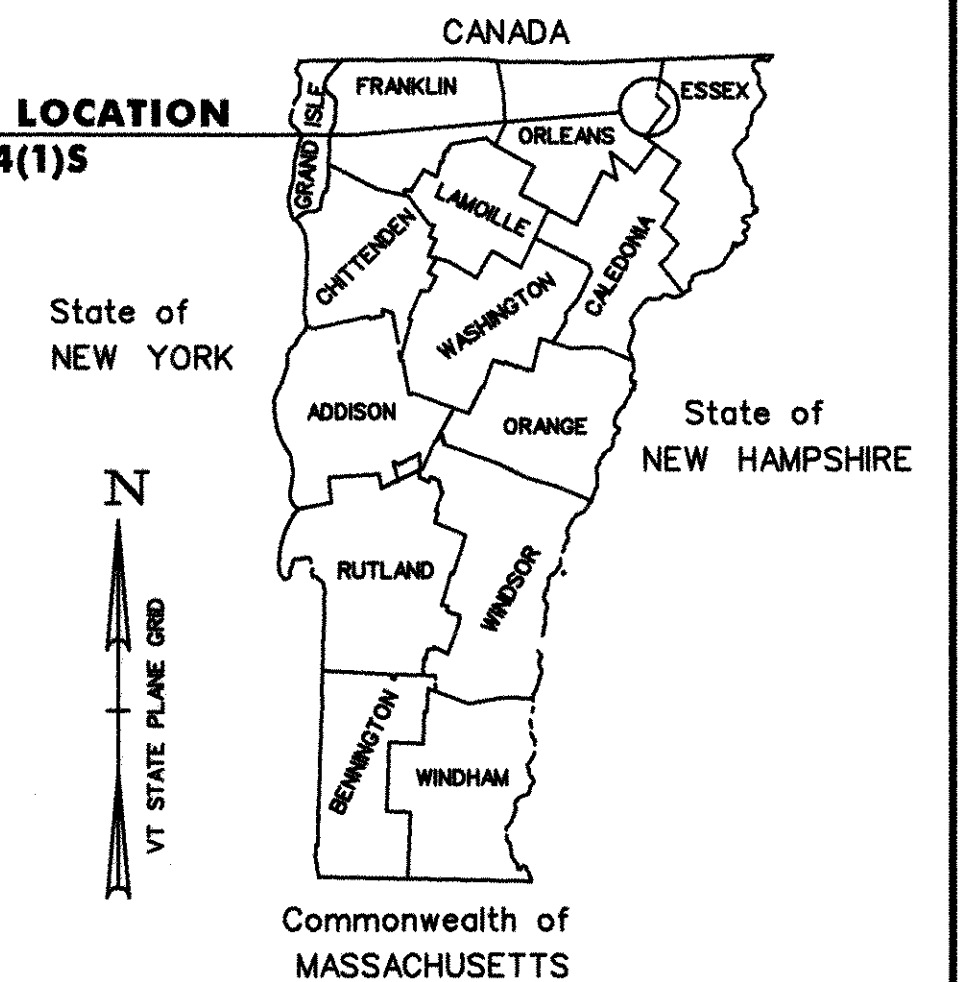
BEGINNING IN THE TOWN OF MORGAN AT STA 327+36 (MM 6.200)
AND EXTENDING EASTERLY ALONG VT ROUTE 111 FOR A DISTANCE OF
APPROXIMATELY 26,526 FEET (5.024 MILES) INTO THE TOWN OF BRIGHTON TO
THE INTERSECTION OF VT ROUTES 111 & 114, STATION 7+23 (M.M. 0.137).

STATION TO STATION DATA	LENGTH	
	(FEET)	(MILES)
TOWN OF MORGAN STA 327+36 TO STA 585+39 (MM 6.200 TO MM 11.087)	25,803	4.887
TOWN OF BRIGHTON STA 0+000 TO STA 7+23 (MM 0.000 TO MM 0.137)	723	0.137
PROJECT TOTALS	26,526	5.024

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



**PROJECT LOCATION
STP 2404(1)S**



RECORD PLANS	
CONTRACTOR:	PIKE INDUSTRIES, INC. - BERLIN, VT.
RESIDENT ENGINEER:	DOUG BUMPS
CONSTRUCTION BEGAN:	
CONSTRUCTION COMPLETE:	
RECORD PLANS BY:	DOUG BUMPS & CHIP PIERCE
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY:	<i>Douglas Bumps</i> RESIDENT ENGINEER
DATE:	5/11/07
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.	

TRAFFIC DATA

	ADT		DHV		ESAL'S (2006-2016)	ESAL'S (2006-2026)
	2006	2016	2006	2016		
MORGAN MM 6.200 (BEGIN PROJECT) TO BRIGHTON MM 0.137 (END PROJECT)	830	950	150	160	190,000	448,000

MORGAN - BRIGHTON VT ROUTE 111, MM 6.200 TO MM 0.137	
BITUMINOUS CONCRETE PAVEMENT SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL	224,000
DESIGN NUMBER OF GYRATIONS	50
PERFORMANCE GRADED ASPHALT BINDER	PG 58-34

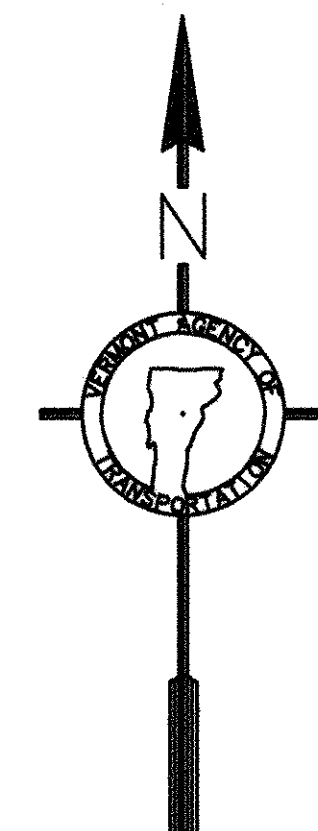
CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	- - - -
LIMITS OF ACCESS	○-○-○
POINT OF ACCESS	○-○-○ X
FENCE LINE	-x-x-
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	○ SR △
TOP OF CUT	△
TOE OF SLOPE	○

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

BY: *[Signature]*

CIVIL ENGINEERING ASSOCIATES, INC.
P.O. BOX 400 SHRELBURNE, VT 05482
802-985-2323 FAX: 802-985-2271 web: www.caa-vt.com



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CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001 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 <i>[Signature]</i>	DATE 3-9-06
PROJECT MANAGER: WOOLAVER	
PROJECT NAME: MORGAN - BRIGHTON	
PROJECT NUMBER: STP 2404(1)S	
SHEET 1 OF 26 SHEETS	

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CONTRACT DATED MAY 11, 2006
CONTRACTOR: PIKE INDUSTRIES INC.
 249 GRANGER ROAD - BERLIN BARRE, VT 05641

CONSTRUCTION BEGAN JULY 21, 2006
SUPERINTENDENT: JOSEPH STARR
 PO BOX 256 TROY, VT 05868

CONSTRUCTION COMPLETED OCT. 18, 2006
RESIDENT ENGINEER: DOUG BUMPS
 PO BOX 617 DERBY, VT 05829

ANTICIPATED COMPLETION OCT. 13, 2006

SUB-CONTRACTORS:
 NICOM COATINGS CORP.
 NORTHERN VT TRAFFIC CONTROL
 L & D SAFETY MARKINGS
 RC CONTRACTORS INC.
 ADA TRAFFIC CONTROL INC.
 VT RECREATIONAL SURFACING & FENCING INC.


CONVENTIONAL SIGNS

COUNTY LINE	----
TOWN LINE	- - - -
LIMITS OF ACCESS	○-○-○-○
POINT OF ACCESS	X
FENCE LINE	-x-x-x-
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	----- SR
SLOPE RIGHTS	△
TOP OF CUT	△
TOE OF SLOPE	○

DATUM

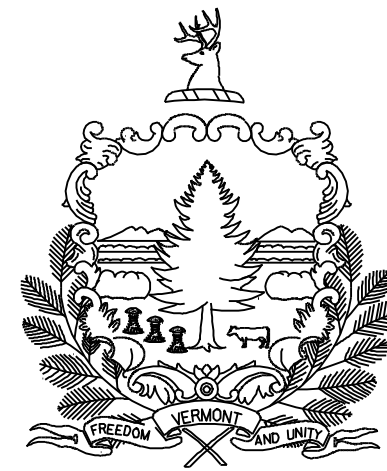
VERTICAL	N/A
HORIZONTAL	N/A

BY:



CIVIL ENGINEERING ASSOCIATES, INC.
 P.O. BOX 486 SHELBURNE, VT 05482
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STATE OF VERMONT AGENCY OF TRANSPORTATION



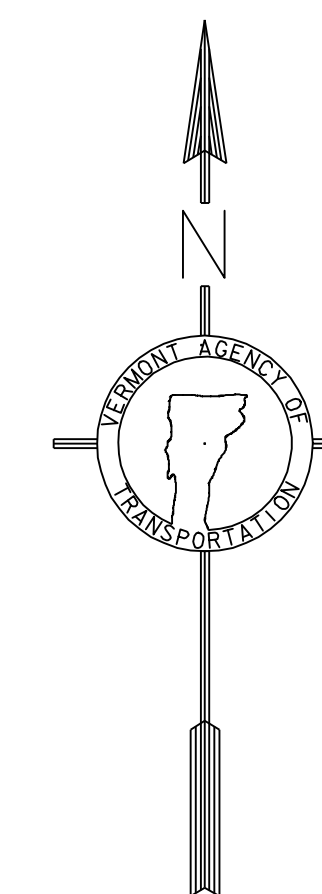
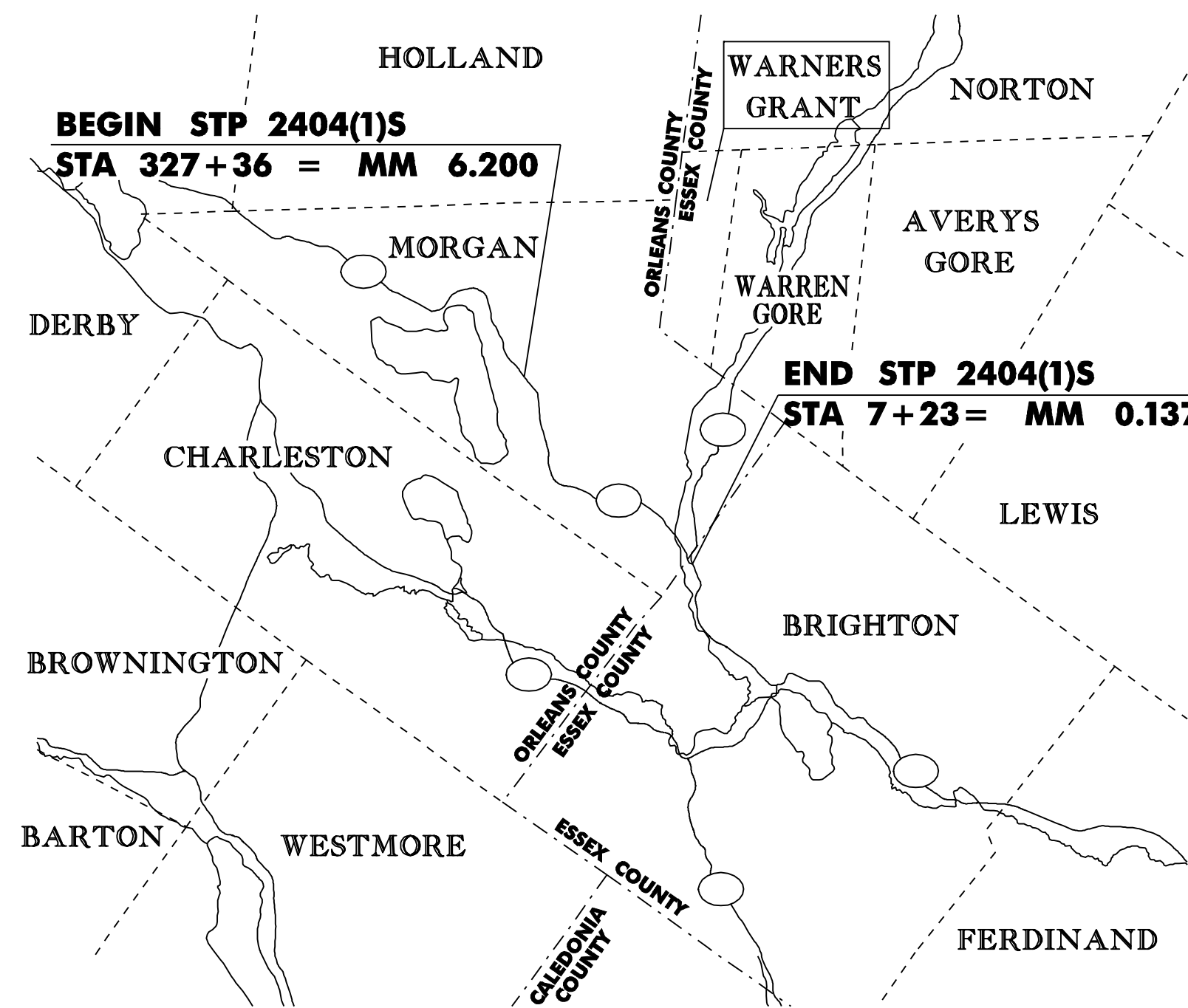
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VT ROUTE 111

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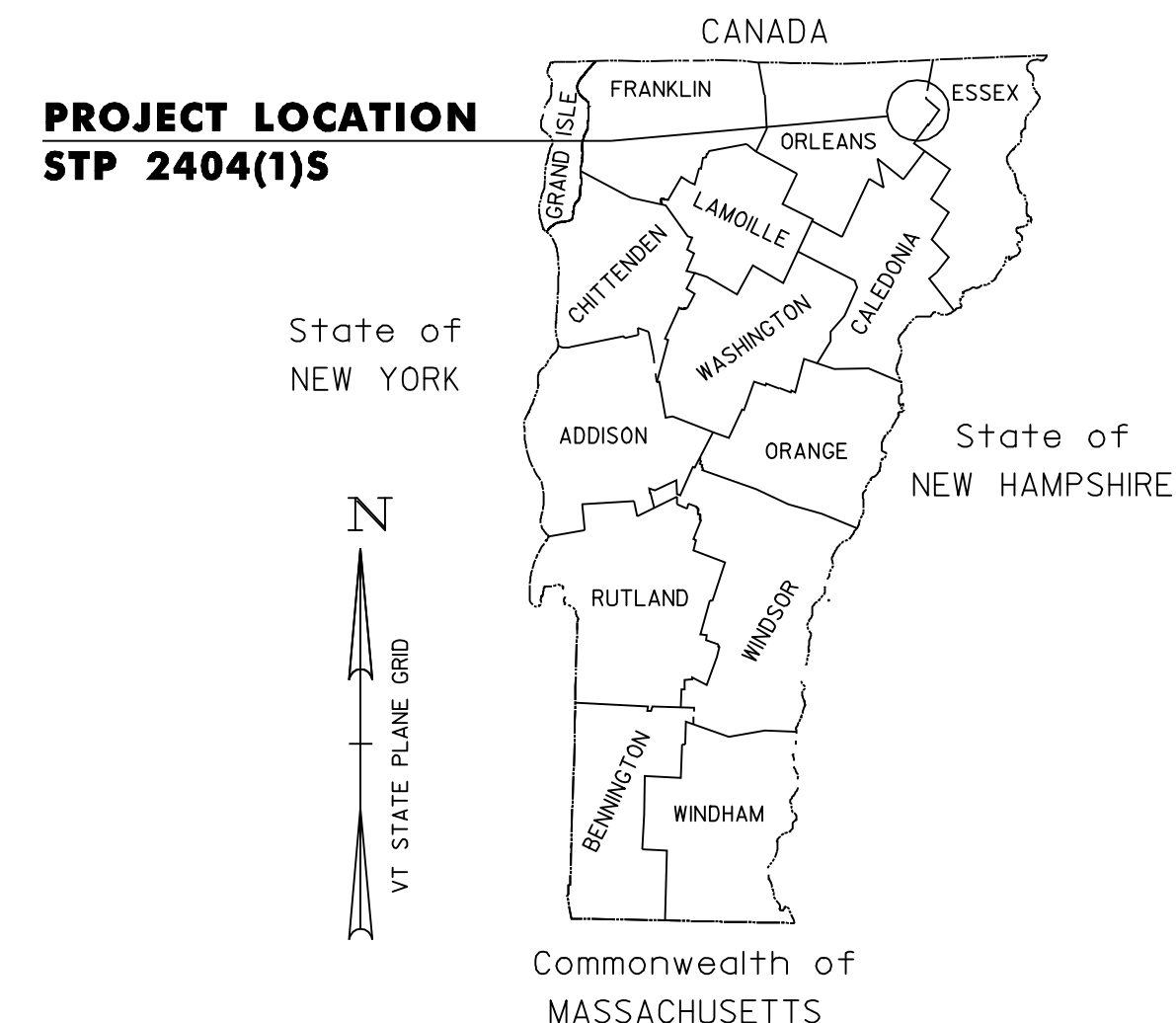
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BITUMINOUS CONCRETE PAVEMENT SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL	224,000
DESIGN NUMBER OF GYRATIONS	50
PERFORMANCE GRADED ASPHALT BINDER	PG 58-34

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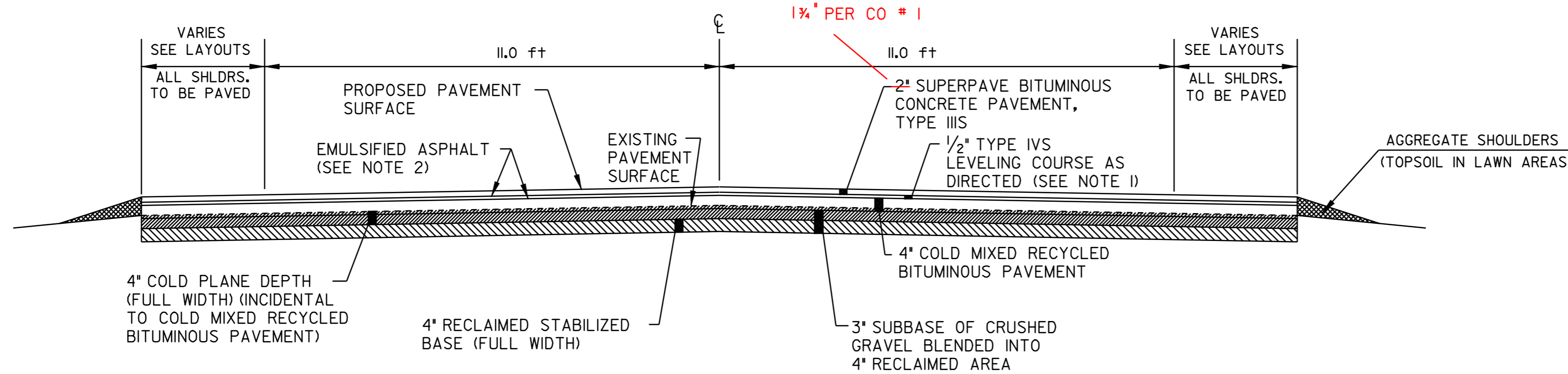
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DIRECTOR OF PROGRAM DEVELOPMENT
 APPROVED _____ DATE _____

PROJECT MANAGER : WOOLAVER

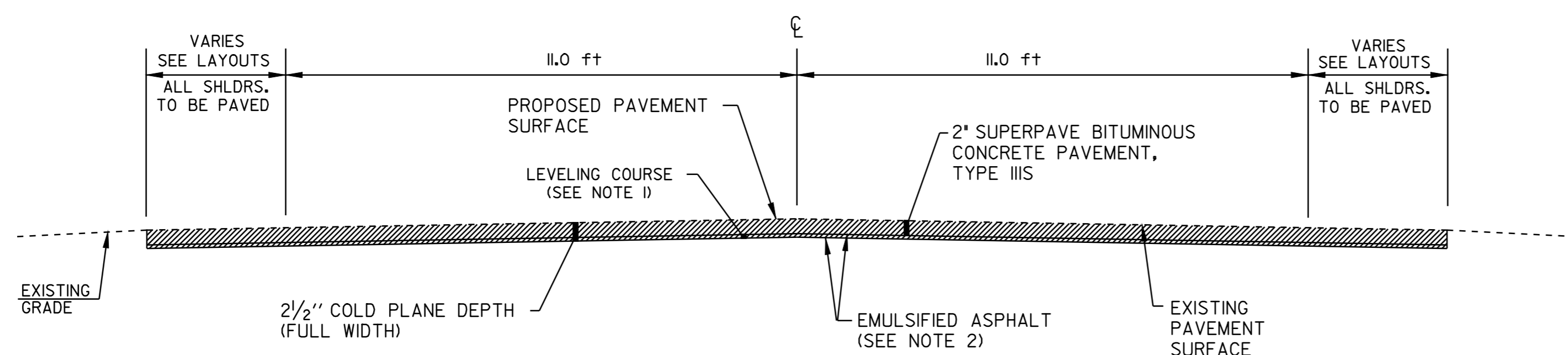
PROJECT NAME : MORGAN - BRIGHTON
PROJECT NUMBER : STP 2404(1)S

SHEET 1 OF 26 SHEETS



COLD MIXED RECYCLED BITUMINOUS PAVEMENT /RECLAIM TYPICAL SECTION

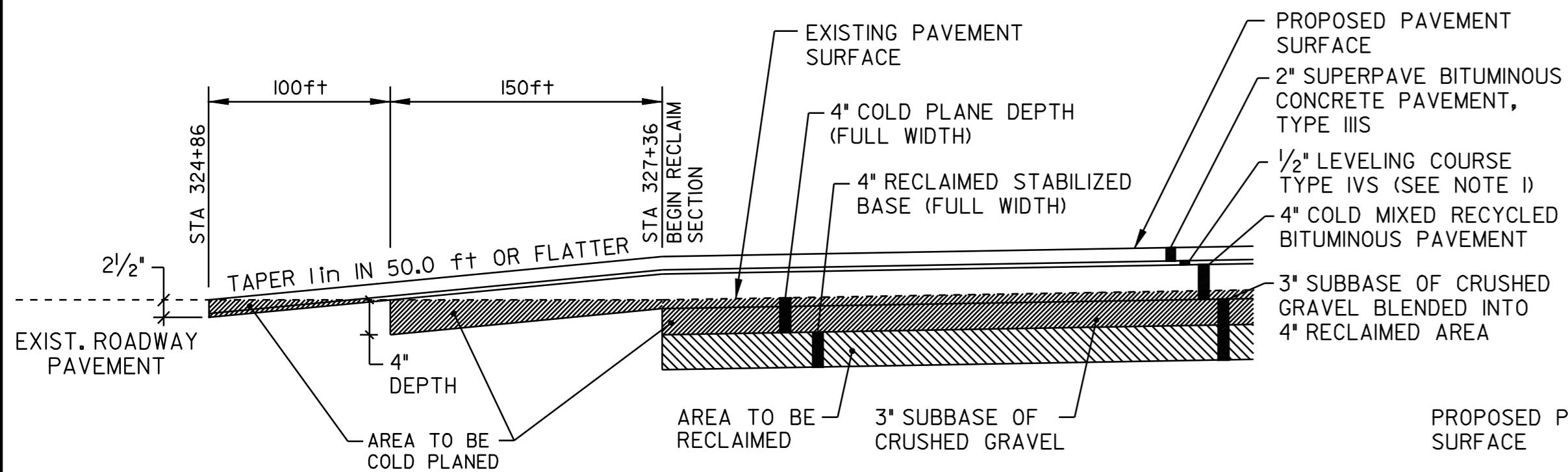
**MORGAN
STA 327+36 TO 580+80**



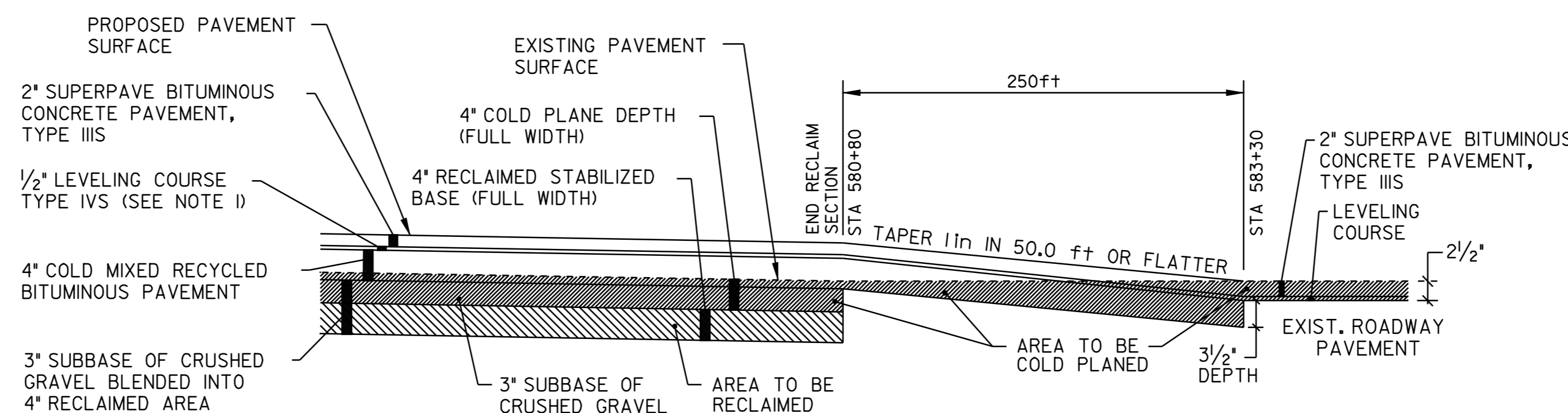
COLD PLANED TYPICAL SECTION

**MORGAN
STA 580+80 TO 585+39**

**BRIGHTON
STA 0+00 TO 7+05**



**- APPROACH AREA DETAIL -
MORGAN
STA 327+36 (BEGIN PROJECT)**



**-TRANSITION AREA DETAIL-
MORGAN
STA 580+80 TO 583+30
(END RECLAIM/BEGIN COLD PLANING)**

PROJECT PAVING LIMITS

TOWN & ROUTE	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING Tons	NOTES
MORGAN - VT ROUTE III	327+36	580+80	VARIES -11.0FT-11.0FT- VARIES	2 in	535	COLD PLANE 4", RECLAIM 4", MIX 3" SUBBASE OF CRUSHED GRAVEL IN RECLAIM AREA, PAVE w/4" COLD MIX AND 2" TYPE III
	580+80	583+30	VARIES -11.0FT-11.0FT- VARIES	2 in	25	COLD PLANE (DEPTH VARIES - SEE TRANSITION AREA DETAIL), LEVEL AND PAVE w/4" COLD MIX AND 2" TYPE III
	583+30	585+39	VARIES -11.0FT-11.0FT- VARIES	2 in	30	COLD PLANE 2 1/2", LEVEL AND PAVE w/2" TYPE III
BRIGHTON - VT ROUTE III	0+00	7+05	VARIES-11.0FT-11.0FT-VARIES	2 in	80	COLD PLANE 2 1/2", LEVEL AND PAVE w/2" TYPE III

NOTES

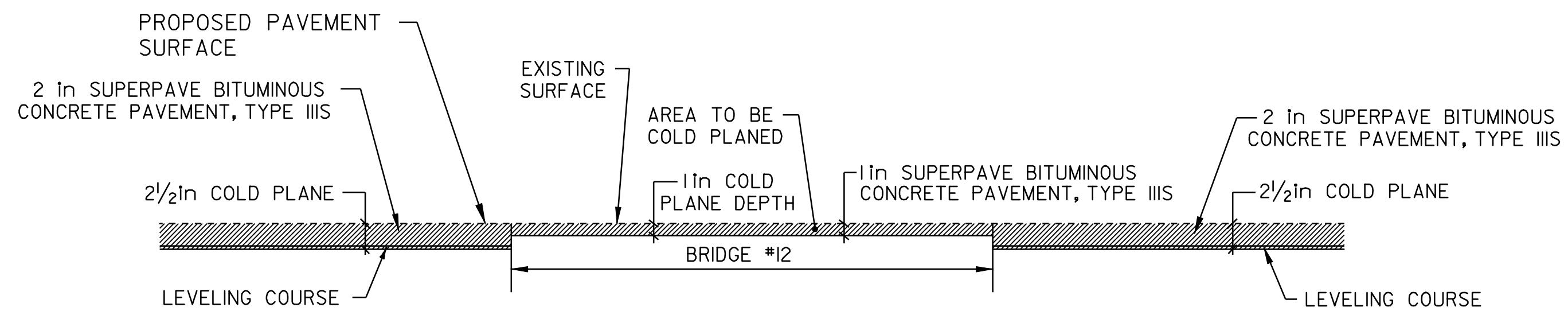
- THE PAVEMENT WEARING COURSE SHALL BE TYPE III.
- THE LEVELING COURSE SHALL BE TYPE IVS UNLESS OTHERWISE SHOWN IN THE PLANS OR DIRECTED BY THE RESIDENT ENGINEER. LEVELING HAS BEEN INCLUDED TO RESHAPE THE ROADWAY PRIOR TO PAVING THE TOP COURSE ALONG THE COLD PLANED TYPICAL SECTION. AN ESTIMATED THICKNESS OF 1/2" OF ITEM 490.30 HAS BEEN INCLUDED TO COVER THIS PROVISION.
- AN ESTIMATED QUANTITY OF LEVELING (TYPE IVS) HAS BEEN INCLUDED FOR THE RECLAIM/COLD MIXED RECYCLED BITUMINOUS PAVEMENT SEGMENT OF THIS PROJECT TO ELIMINATE ANY IRREGULARITIES PRIOR TO PLACEMENT OF THE WEARING COURSE, AS DIRECTED BY THE RESIDENT ENGINEER. A 1/2" LIFT HAS BEEN INCLUDED FOR AN ESTIMATED .25% OF THE COLD MIXED RECYCLED BITUMINOUS PAVEMENT SURFACE AREA.
- ALL ASPHALT CEMENT USED IN THE BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 58-34.
- EMULSIFIED ASPHALT SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES, (NOT INCLUDING RECLAIMING SURFACES) BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED SURFACES AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
- ALL LIQUID BINDER USED IN COLD MIXED RECYCLED BITUMINOUS PAVEMENT, AS DIRECTED BY THE RESIDENT ENGINEER, SHALL BE PAID FOR UNDER ITEM 404.65, EMULSIFIED ASPHALT (MOD.)
- EMULSIFIED ASPHALT (MOD.) HAS BEEN ESTIMATED AT THE RATE OF 1.0 gal/sy.
- EMULSIFIED ASPHALT (MOD.) APPLICATION RATE MAY BE ALTERED AS DIRECTED BY THE RESIDENT ENGINEER TO SUIT FIELD CONDITIONS.
- BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- 1/4 in (TOTAL THICKNESS EXCLUDING LEVELING).
- 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 ENGINEER. EXCAVATED MATERIAL WILL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT, AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR USING THE APPROPRIATE RENTAL ITEMS SUCH AS ALL PURPOSE EXCAVATOR RENTAL, GRADER RENTAL, LOADER RENTAL, TRUCK RENTAL, AND POWER BROOM RENTAL. 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).
- THREE FEET OF BACKING IS REQUIRED BEHIND THE FACE OF GUARD RAIL WITH 6 ft POSTS. IF THIS CANNOT BE OBTAINED THEN 8ft POSTS SHALL BE USED.
- COLD PLANING TO BE COMPLETED ACCORDING TO THE TYPICAL OR AS NOTED OTHERWISE ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGINNING/END AND AT ALL SIDE ROAD APPROACHES AS DENOTED ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
- ALL DRIVES AND TOWN HIGHWAYS SHALL RECEIVE A PAVED APRON 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.
- ESTIMATED QUANTITIES OF ITEM 608.25, EXCAVATOR RENTAL, TYPE I AND 608.37, TRUCK RENTAL HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARD RAIL END SECTIONS. THE GUARD RAIL END SECTIONS SHALL BE CAPPED WITH AN ESTIMATED 3 in DEPTH OF AGGREGATE SHOULDER MATERIAL UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 5 TONS OF AGGREGATE SHOULDERS AND 25 CUBIC YARDS OF EARTH BORROW FOR EACH GUARD RAIL TERMINAL.
- ITEM 616.47, BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS WILL BE PAID ONLY WHERE SPECIFIED IN THE PLANS. ALL OTHER BITUMINOUS CONCRETE PAVEMENT WORK, WHICH COULD INVOLVE SOME HAND WORK (SUCH AS DRIVE APPROACHES AND AROUND DRAINAGE/UTILITY STRUCTURES), SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-34).
- ALL EDGES OF PAVEMENT SHALL BE BACKED UP FULL HEIGHT WITH ITEM 402.12, AGGREGATE SHOULDERS AS DIRECTED BY THE RESIDENT ENGINEER.
- COMPACTION, GRADING, AND CLEAN UP OF ITEM 301.28, SUBBASE OF CRUSHED GRAVEL, ITEM 402.12, AGGREGATE SHOULDERS, AND ITEM 651.35, TOPSOIL, IS TO BE INCLUDED IN THE CONTRACT PRICE OF EACH ITEM.
- STABILIZING AGENT FOR THE RECLAIMED STABILIZED BASE WILL BE WATER. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO ITEM 310.20.
- ESTIMATED QUANTITIES OF CULVERT HAVE BEEN INCLUDED FOR THE PROVISION OF REPLACING AND/OR EXTENDING EXISTING CULVERTS, AS NECESSARY, OR AS DIRECTED BY THE RESIDENT ENGINEER.
- AN ESTIMATED THICKNESS OF 3" OF CRUSHED GRAVEL HAS BEEN INCLUDED FOR THE PROVISION OF IMPROVING GRADATION DEFICIENCIES AND/OR CORRECTING SUPERELEVATION, AS NECESSARY, OR AS DIRECTED BY THE RESIDENT ENGINEER.
- YIELDING MARKER POSTS ARE TO BE USED TO REPLACE NON-YIELDING MARKER POSTS AT PIPE INLETS AND OUTLETS ONLY.
- THE CONTRACTOR MAY PLACE TWO EQUAL LIFTS (2" EACH LIFT) OF COLD MIXED RECYCLED BITUMINOUS PAVEMENT AS AN ALTERNATIVE TO THE PROPOSED 4" LIFT DETAILED IN THE TYPICAL SECTION. IF THE CONTRACTOR ELECTS TO PLACE THIS MATERIAL IN TWO LIFTS, THERE SHALL NOT BE ANY EXTRA COMPENSATION TO DO SO.
- THE COLD MIXED RECYCLED BITUMINOUS PAVEMENT SHALL BE PRODUCED FROM THE COLD PLANE GRINDINGS GENERATED FROM THIS PROJECT. IF THERE IS NOT SUFFICIENT SUPPLY OF GRINDINGS TO PRODUCE THE INDICATED 4" LIFT OF COLD MIXED RECYCLED BITUMINOUS PAVEMENT, THE CONTRACTOR SHALL OBTAIN COLD PLANE GRINDINGS FROM ANOTHER SOURCE TO COMPLETE THE PROPOSED 4" LIFT. IF ADDITIONAL GRINDINGS ARE REQUIRED, THE COST OF PROVIDING THEM SHALL BE INCIDENTAL TO ITEM 415.20, COLD MIXED RECYCLED BITUMINOUS PAVEMENT.

IN THE EVENT THAT THERE IS A SURPLUS OF COLD PLANE GRINDINGS AFTER THE 4" LIFT OF COLD MIXED RECYCLED BITUMINOUS PAVEMENT HAS BEEN PLACED, THOSE GRINDINGS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

PER CO #1
SHIMMED 100% OF
COLD MIXED SURFACE

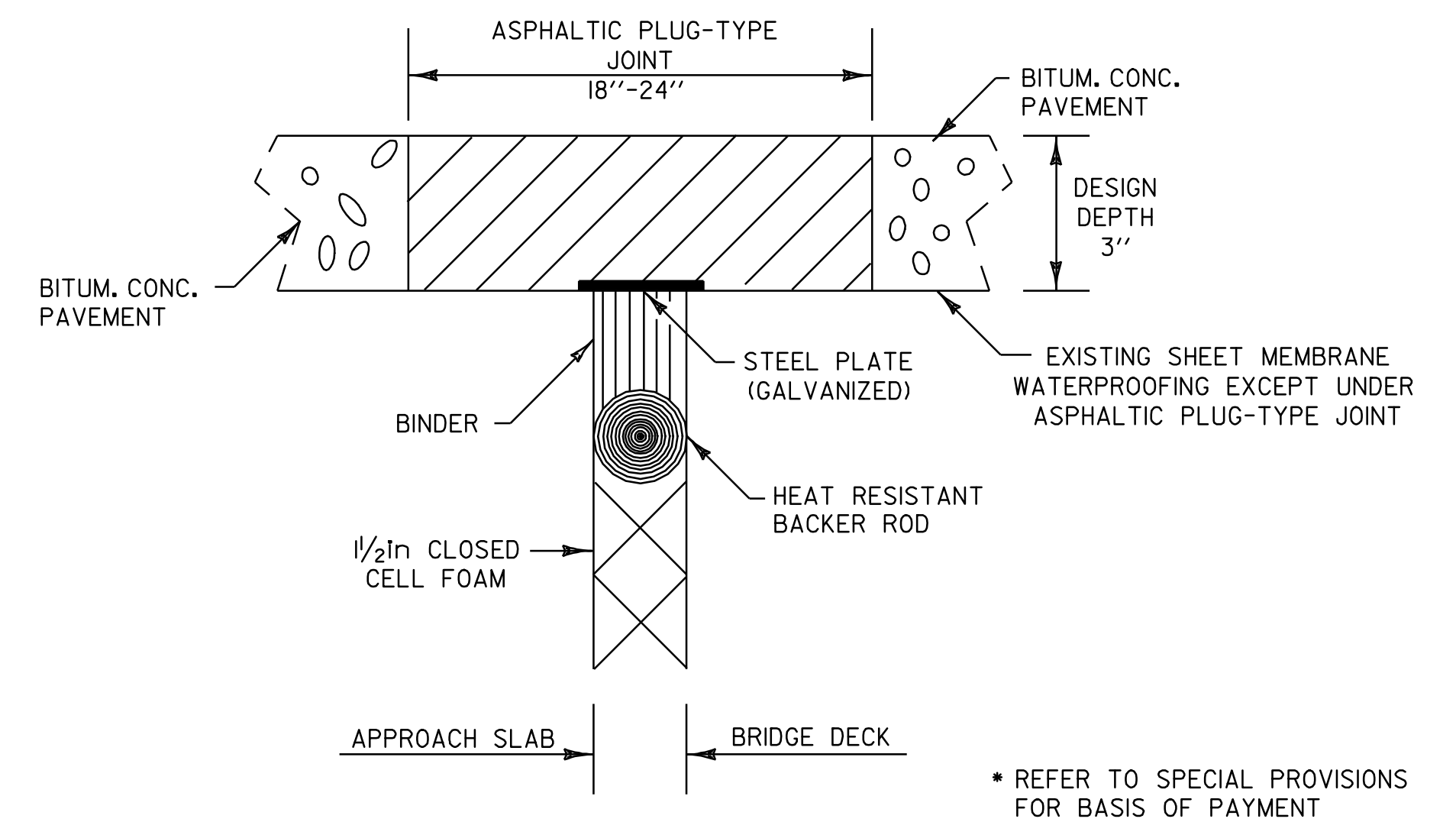
PROJECT TYPICAL SHEET #1

DESIGNED BY BCE/PJM DATE 8-05
 DRAWN BY C.E.A., INC. DATE 8-05
 DESIGN FILE NO. /pave/04c036/p04c036.dgn
 PRF FILE p04c036+yp1 DATE PLOTTED 11-JUN-2007 14
 PROJ. NAME **MORGAN - BRIGHTON**
 PROJ. NO. **STP 2404(1)S**
 SHEET **2** OF **26** SHEETS



- COLD PLANING DETAIL @ BRIDGE -
BRIGHTON
BRIDGE #12 - STA 4+86

NOTE:
 PRECAUTIONS MUST BE TAKEN ON BRIDGE #12 TO AVOID DAMAGE TO THE EXISTING MEMBRANE (EXISTENCE UNDETERMINED). ANY COSTS ASSOCIATED WITH REPAIRING OR REPLACING THIS MEMBRANE, FROM DAMAGE DURING COLD PLANING OPERATIONS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.



- ASPHALTIC PLUG TYPE JOINT DETAIL -

LOCATION
BRIGHTON
 BRIDGE #12 (38.5ft) - STA 4+63
 BRIDGE #12 (38.5ft) - STA 5+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.

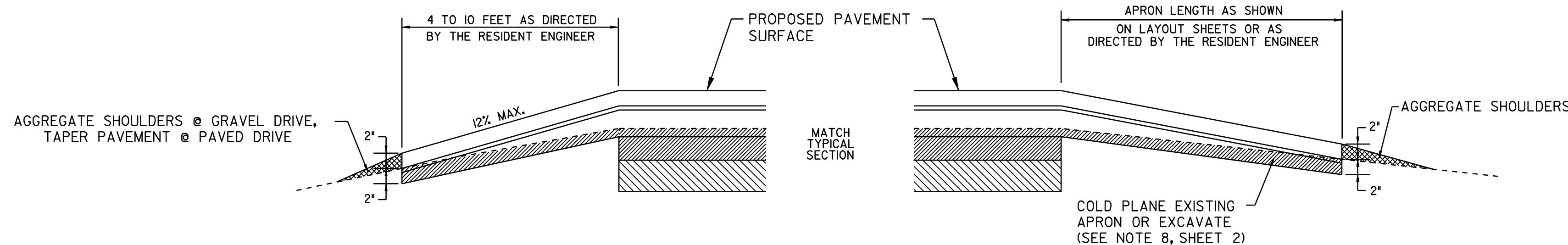
SEED:
 TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

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.

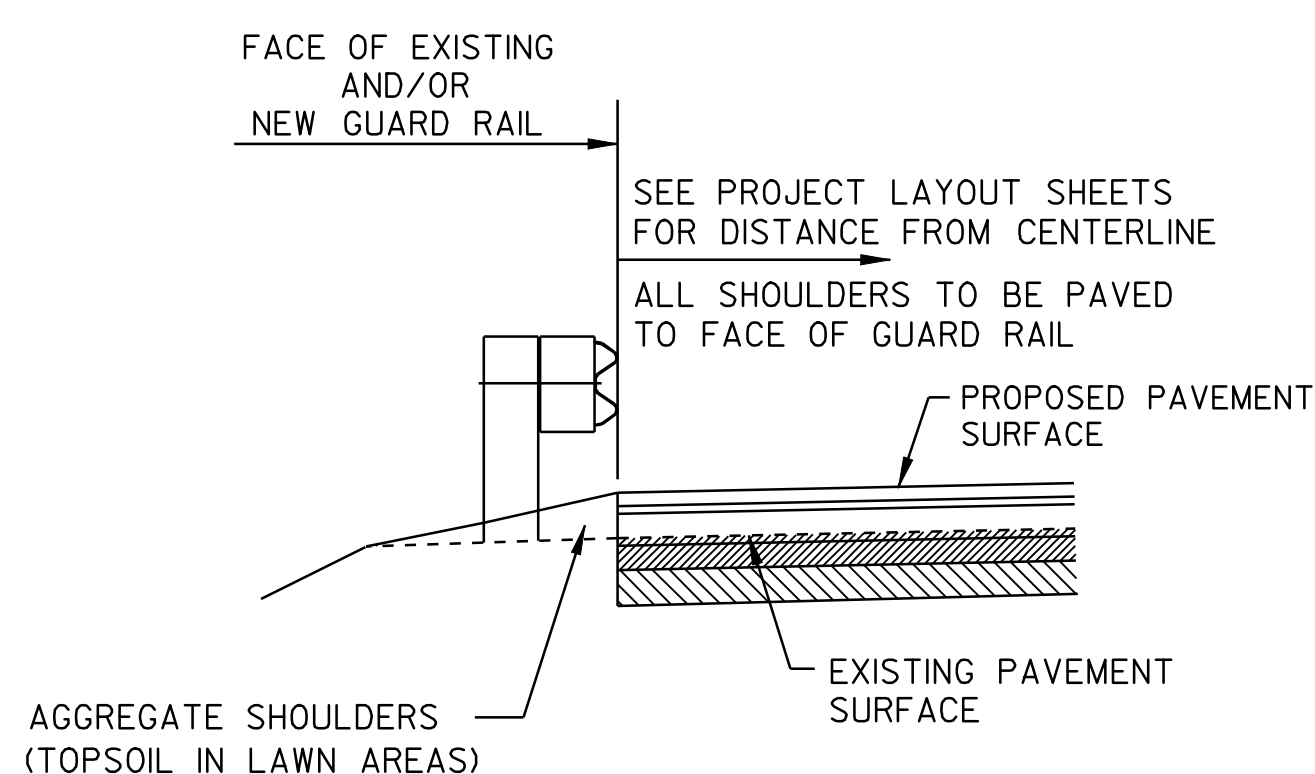
HAY MULCH:
 TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2.0 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

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

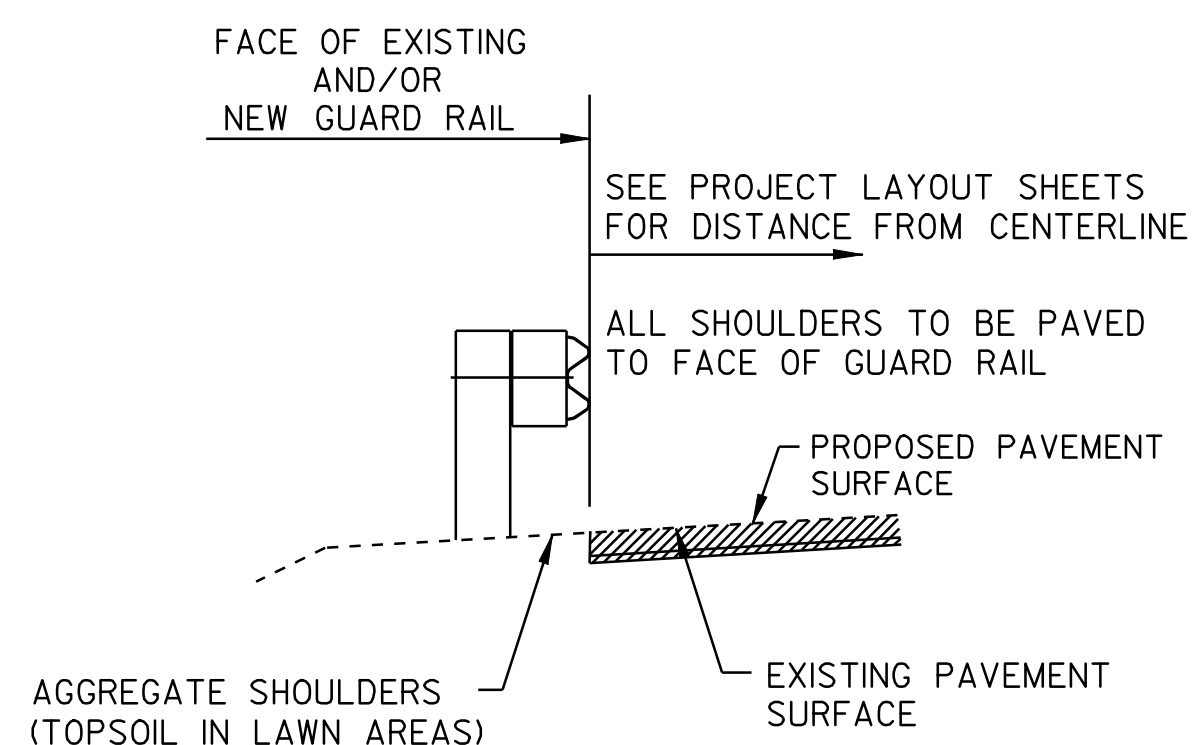


DRIVEWAY TRANSITION DETAIL
@ COLD PLANE/RECLAIM AREAS

TOWN HIGHWAY TRANSITION DETAIL
@ COLD PLANE/RECLAIM AREAS



- TYPICAL SECTION AT GUARD RAIL -
 RECLAIM SECTION



- TYPICAL SECTION AT GUARD RAIL -
 COLD PLANE SECTION

PROJECT
TYPICAL
SHEET #2

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	/pave/04c036/p04c036.dgn		
PRF FILE	p04c036+yp2.i	DATE PLOTTED	11-JUN-2007 14:50
PROJ. NAME	MORGAN - BRIGHTON		
PROJ. NO.	STP 2404(1)5		
SHEET	3	OF	26 SHEETS

ITEM DETAIL SUMMARY SHEET

LOCATION			MISCELLANEOUS ITEMS										DRAINAGE ITEMS										GUARD RAIL ITEMS										REMARKS	
STA	STA	POS.	201.31	203.15	203.30		204.20	301.28	402.12	402.12	616.47	617.12	604.40	604.412	NEW PIPE					605.10	619.17	621.20	621.20	621.21	621.505	621.60	621.76	621.77	621.80	621.81	676.10			
			THIN TRIM FOR SIGNS	COM. EXCAV.	EARTH BORROW	WASTE DITCHING MATERIAL	TRENCH EXCAV. OF EARTH (N.A.B.I.)	SUBBASE OF CRUSHED GRAVEL	AGG. SHOULD.	AGG. SHOULD. (MOD.)	B. CONC. GUTTER & TRAF. ISLAND	RELOCATE MAIL BOX MULTIPLE SUPPORT	CHANGE ELEV.	REHAB. D.I. CLASS I	DIA.	CSP (0.064)	RCP	CPEP	CSPE5 (0.064)	6" UNDER-DRAIN	YIELD. MARKER POSTS	STEEL BEAM G.R.	8 ft STEEL BEAM G.R. (MOD.)	HEAVY DUTY S.B. G.R.	MANUF. TERMINAL SECTION (FLARED)	ANCHOR FOR S.B. RAIL	REPLACE POST ASSEMBLY	REPLACE BEAM UNIT	REMOVE & DISP. OF G.R.	REMOVE & DISP. OF GUIDE POSTS	DELIN. w/STEEL POSTS			
			EA	CY	CY	CY	CY	TON	TON	TON	TON	EA	EA	EA	in	FT	FT	FT	EA	FT	EA	FT	FT	FT	EA	EA	EA	EA	FT	EA	EA			
MORGAN																																		
327+36	585+39	LT&RT			2,650		1	14,500	2,930		3				15	100				200	2													
															18	100	100	100	5															
328+18	329+80	LT			50				10														87.5			2					3	2	REPLACE EXISTING GUIDE POSTS.	
328+70	330+70	RT			50				10														125.0			2					8	2	REPLACE EXISTING GUIDE POSTS.	
438+40	442+50	RT			50				10														337.5			2					13	2	REPLACE EXISTING GUIDE POSTS.	
504+73	508+35	RT			50				10														287.5			2					362.5	2	REPLACE EXISTING STEEL BEAM GUARD RAIL.	
505+00	508+50	LT			50				10														275.0			2					337.5	2	REPLACE EXISTING STEEL BEAM GUARD RAIL.	
BRIGHTON																																		
3+30	4+55	LT			25				5														62.5		32.5	1					125	1	ATTACH TO NEW BRIDGE RAIL @ STA 4+55 LT	
3+26	4+76	RT			25				5														87.5		32.5	1					150	1	ATTACH TO NEW BRIDGE RAIL @ STA 4+76 RT	
5+05	6+43	LT			25				5														75		32.5	1					137.5	1	ATTACH TO NEW BRIDGE RAIL @ STA 5+05 LT	
5+26	6+51	RT			25				5														62.5		32.5	1					125	1	ATTACH TO NEW BRIDGE RAIL @ STA 5+26 RT	
SHEET SUB-TOTALS					3,000		1	14,500	3,000		3												200	2	1,187.5	212.5	130	14			1,237.5	24	14	
ROUNDING					--		--	--	--		--												--	--	--	--	--				2.5	--	--	
SHEET TOTALS					3,000		1	14,500	3,000		3				15	100	--	--	--					200	2	1,200.0	225.0	130	14			1,240	24	14
															18	100	100	100	5															

ITEM DETAIL SUMMARY SHEET

DESIGNED BY BCE/PJM DATE 8-05

DRAWN BY C.E.A., INC. DATE 8-05

DESIGN FILE NO. /pave/04c036/p04c036.dgn

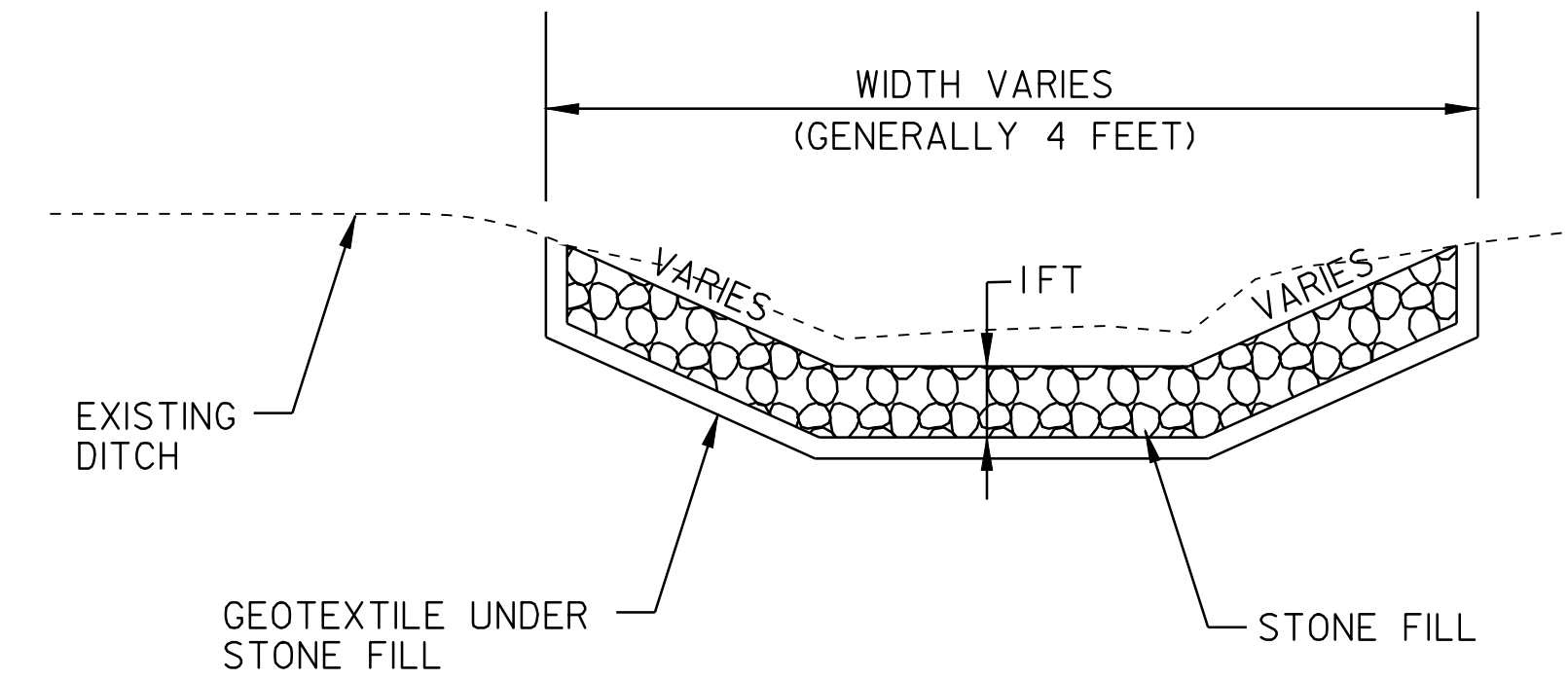
PRF FILE p04c036lds.l DATE PLOTTED 11-JUN-2007 14:5

PROJ. NAME: **MORGAN - BRIGHTON**

PROJ. NO.: **STP 2404(1)S**

SHEET **6** OF **26** SHEETS

LOCATION				FEET OF DITCHING				MISC. ITEMS			REMARKS	LOCATION				FEET OF DITCHING				MISC. ITEMS			REMARKS		
SITE	STATION	STATION	POS.	PERCENT GRADE				EROS. MATT.	STONE FILL TYP. I	GEOT. UNDER STONE FILL		SITE	STATION	STATION	POS.	PERCENT GRADE				EROS. MATT.	STONE FILL TYP. I	GEOT. UNDER STONE FILL			
				0-1	1-2.5	2.5-10	>10									0-1	1-2.5	2.5-10	>10					654.10	613.10
VT ROUTE 111, MORGAN DISTRICT #9								SY	CY	SY									SY	CY	SY				
1	340+00	345+50	LT	300	250			110																	
2	368+50	371+50	LT		300			130																	
PROJECT SUBTOTALS				300	550			240																	
ROUNDING				--	--			10																	
PROJECT TOTALS				300	550			250																	
								100	300	ESTIMATED ITEMS FOR USE AS DIRECTED BY THE RESIDENT ENGINEER.															



DITCH DETAIL
NOT TO SCALE

NOTES:

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

ESTIMATED QUANTITIES OF EROSION MATTING, AND STONE FILL, TYPE I, HAVE BEEN INCLUDED. 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, OR AS DIRECTED BY THE RESIDENT ENGINEER.

DITCH CLEANING DETAIL SHEET	PROJECT : MORGAN - BRIGHTON	PROJECT NO. : STP 2404(IIS)
	DESIGN FILE NAME: /pave/04c036/p04c036.dgn	
	IPARM FILE NAME: p04c036dl+1	PLOT DATE: 11-JUN-2007 14:31
	SURVEYED BY: CEA	SURVEY DATE:
	SQUAD LEADER: WOOLLAVER	DRAWN BY: CEA
		SHEET: 7 OF 26

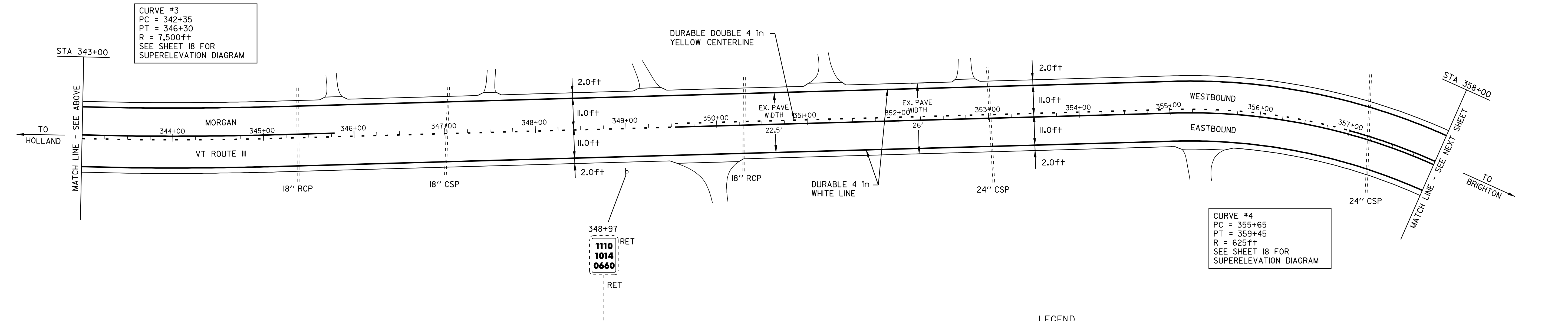
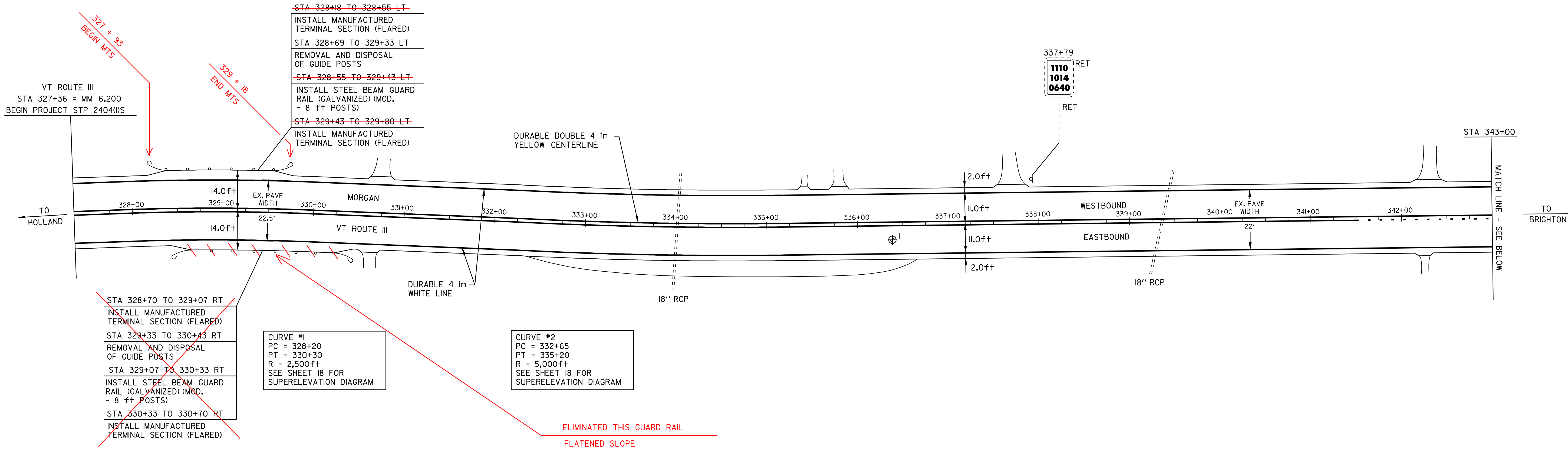
TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 327+36 TO 341+50 SOLID LT & DASHED RT
 STA 341+50 TO 345+80 SOLID LT & DASHED RT
 STA 345+80 TO 349+55 DASHED
 STA 349+55 TO 357+00 DASHED LT & SOLID RT
 STA 357+00 TO 358+00 SOLID LT&RT

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 327+36 TO 358+00 SOLID LT&RT

REMOVAL AND DISPOSAL OF GUIDE POSTS
 STA 328+69 TO 329+33 LT - 3
 STA 329+33 TO 330+43 RT - 8

MANUFACTURED TERMINAL SECTION (FLARED)
~~STA 328+18 TO 328+55 LT~~
~~STA 328+70 TO 329+07 RT~~
~~STA 329+43 TO 329+80 LT~~
~~STA 330+33 TO 330+70 RT~~
 327+93 ~ 328+30.5 LT
 328+80.5 ~ 329+18 LT

STEEL BEAM GUARD RAIL (GALVANIZED) (MOD. - 8 ft POSTS)
~~STA 328+55 TO 329+43 LT~~
~~STA 329+07 TO 330+33 RT~~
 328+30.5 ~ 328+80.5 LT
 DITCHING LOCATIONS (REFER TO SHEET 7 FOR DETAILS)
 STA 340+00 TO 345+50 LT



PAVEMENT CORES -

#	TOTAL DEPTH (in)	SOLID CORE	COMMENTS
1	6	YES	NON-DRAINABLE BASE

NOTE:
 - NO PCC UNDER ANY CORES
 - NO CORES OVER ASPHALTED (UNLESS NOTED)
 - NO SHOULDER CORES

- LEGEND
- N = NEW
 - R = REMOVE
 - R&S = REMOVE & SALVAGE
 - S = SALVAGE
 - RET = RETAIN
 - B-T0-B = BACK TO BACK
 - CATCH BASIN/DI
 - EXISTING THROAT DI
 - MARKER POST
 - UTILITY POLE
 - UTIL. POLE W/UNDERGROUND UTIL.
 - DRIVE

PAVING PROJECT LAYOUT SHEET #1

DESIGNED BY BCE/PJM DATE 8-05

DRAWN BY C.E.A., INC. DATE 8-05

DESIGN FILE NO. /pave/04c036/p04c036.dgn

PRF FILE p04c036i01.i DATE PLOTTED II-JUN-2007 14:

PROJ. NAME **MORGAN - BRIGHTON**

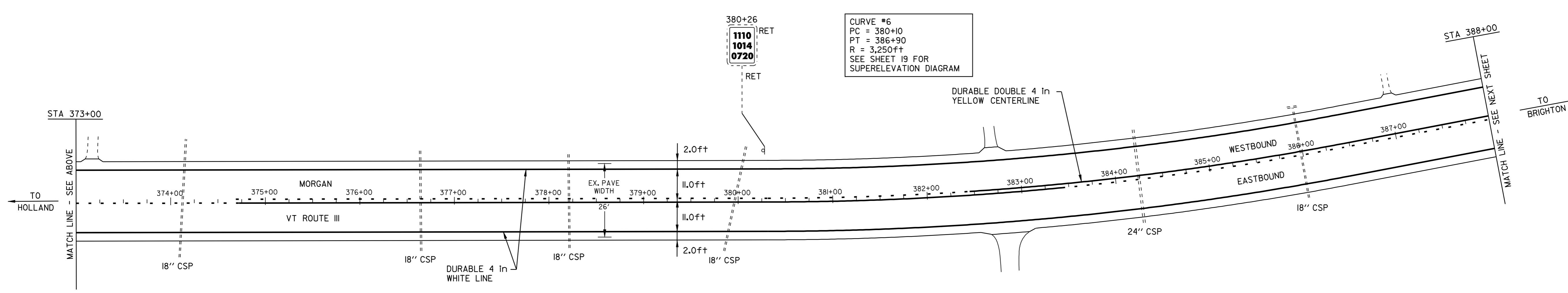
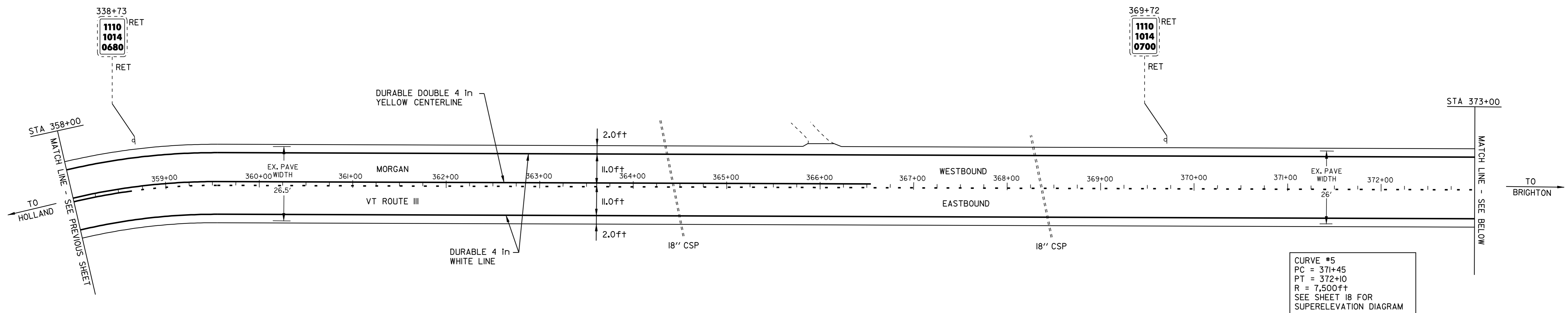
PROJ. NO. **STP 2404(1)S**

SHEET **8** OF **26** SHEETS

TEMPORARY AND DURABLE 4 In YELLOW LINE
 STA 358+00 TO 358+60 SOLID LT&RT
 STA 358+60 TO 366+55 SOLID LT & DASHED RT
 STA 366+55 TO 374+70 DASHED
 STA 374+70 TO 382+40 DASHED LT & SOLID RT
 STA 382+40 TO 383+35 SOLID LT&RT
 STA 383+35 TO 388+00 SOLID LT & DASHED RT

TEMPORARY AND DURABLE 4 In WHITE LINE
 STA 358+00 TO 388+00 SOLID LT&RT

DITCHING LOCATIONS (REFER TO SHEET 7 FOR DETAILS)
 STA 368+50 TO 371+50 LT



- LEGEND
- N = NEW
 - R = REMOVE
 - R&S = REMOVE & SALVAGE
 - S = SALVAGE
 - RET = RETAIN
 - B-T-O-B = BACK TO BACK
 - ⊕ ⊞ ⊠ CATCH BASIN/DI
 - ⊙ ⊞ EXISTING THROAT DI
 - I MARKER POST
 - ⊗ UTILITY POLE
 - ⊗ UTIL. POLE W/UNDERGROUND UTIL.
 - ⊗ DRIVE

PAVING PROJECT LAYOUT SHEET #2

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	/pave/04c036/p04c036.dgn		
PRF FILE	p04c036i02.1	DATE PLOTTED	11-JUN-2007 14:51
PROJ. NAME	MORGAN - BRIGHTON		
PROJ. NO.	STP 2404(1)S		
SHEET	9	OF	26 SHEETS

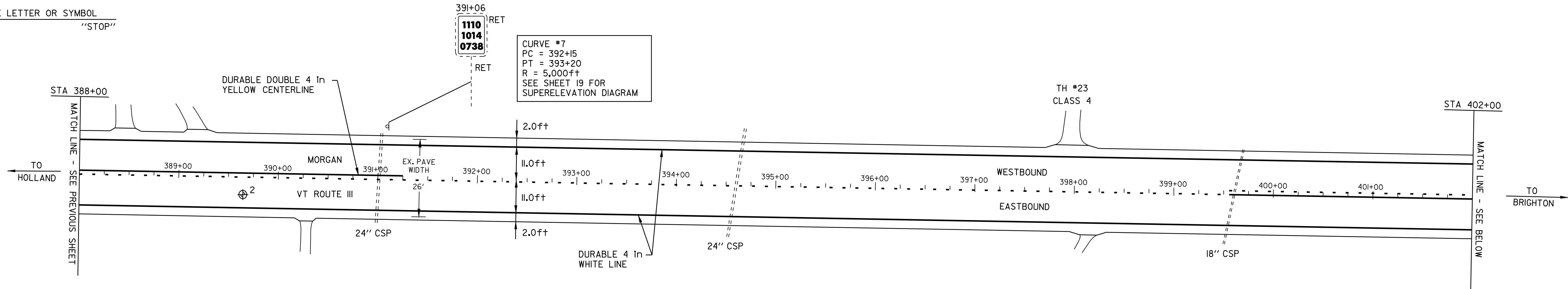
TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 388+00 TO 391+25 SOLID LT & DASHED RT
 STA 391+25 TO 399+60 DASHED LT & DASHED RT
 STA 399+60 TO 403+20 DASHED LT & SOLID RT
 STA 403+20 TO 417+00 SOLID LT&RT
 STA 403+50 DOUBLE SOLID RT
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 388+00 TO 417+00 SOLID LT&RT
 (WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 24 in STOP BAR
 STA 403+50 RT TH #24

REMOVING SIGNS
 3

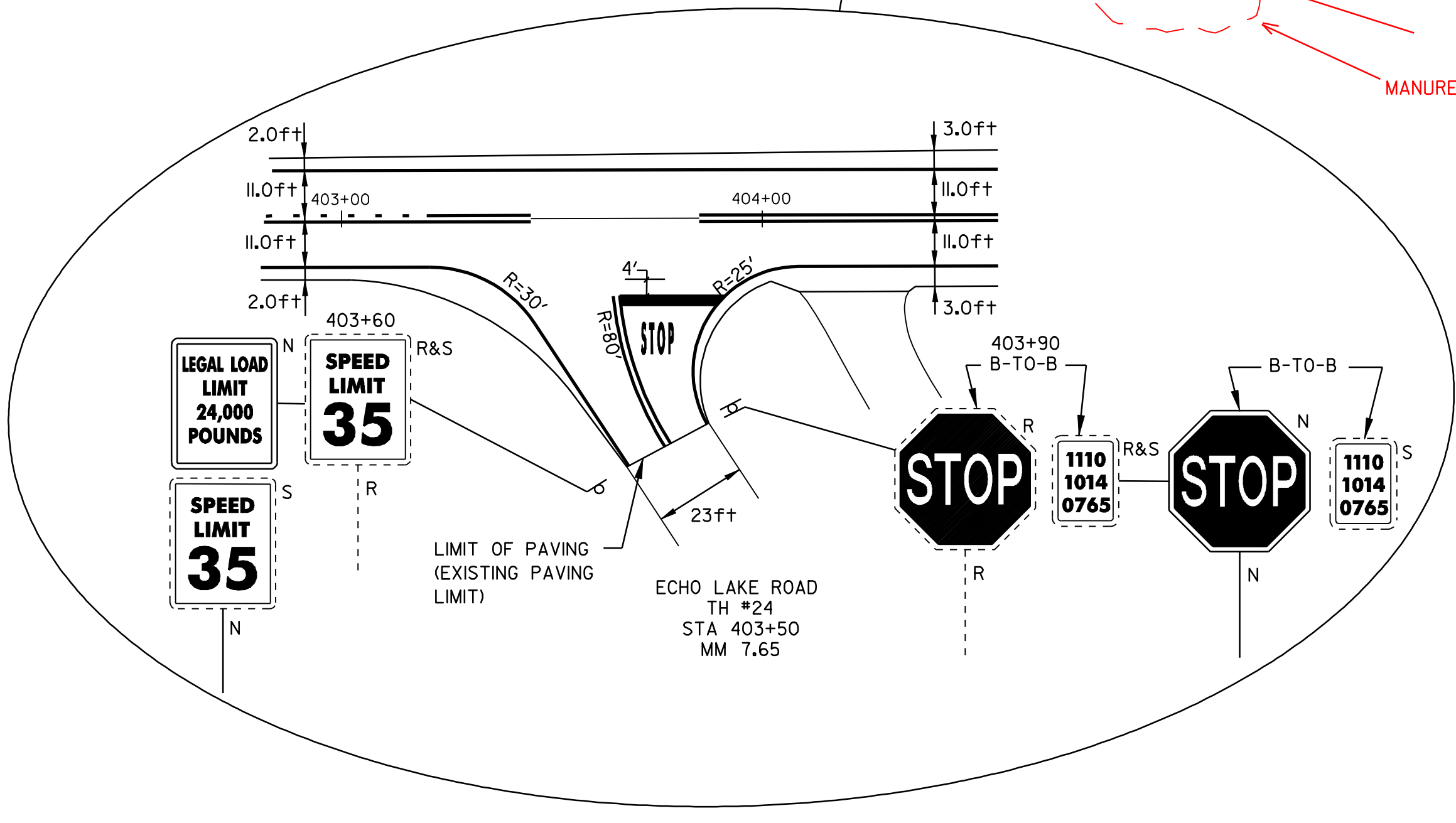
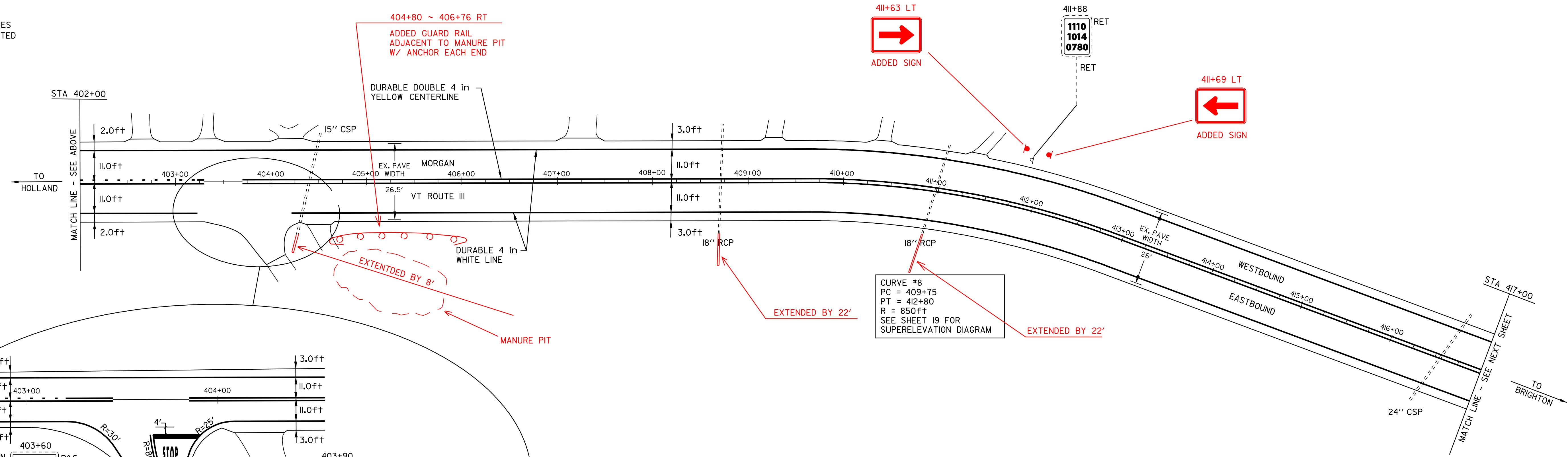
TEMPORARY AND DURABLE LETTER OR SYMBOL
 STA 403+50 RT "STOP"



PAVEMENT CORES -

#	TOTAL DEPTH (In)	SOLID CORE	COMMENTS
2	6	YES	NON-DRAINABLE BASE

NOTE:
 - NO PCC UNDER ANY CORES
 - NO CORES OVER ASPHALTED (UNLESS NOTED)
 - NO SHOULDER CORES



LEGEND

N	=	NEW
R	=	REMOVE
R&S	=	REMOVE & SALVAGE
S	=	SALVAGE
RET	=	RETAIN
B-T-O-B	=	BACK TO BACK
⊕	=	CATCH BASIN/DI
⊙	=	EXISTING THROAT DI
I	=	MARKER POST
⊗	=	UTILITY POLE
⊗/I	=	UTIL. POLE W/UNDERGROUND UTIL.
⌋	=	DRIVE

PAVING PROJECT LAYOUT SHEET #3

DESIGNED BY BCE/PJM DATE 8-05
 DRAWN BY C.E.A., INC. DATE 8-05
 DESIGN FILE NO. /pave/04c036/p04c036.dgn
 PRF FILE p04c036i03.i DATE PLOTTED II-JUN-2007 14:
 PROJ. NAME **MORGAN - BRIGHTON**
 PROJ. NO. **STP 2404(1)S**
 SHEET **10** OF **26** SHEETS

TEMPORARY AND DURABLE 4 In YELLOW LINE
STA 417+00 TO 447+00
SOLID LT&RT

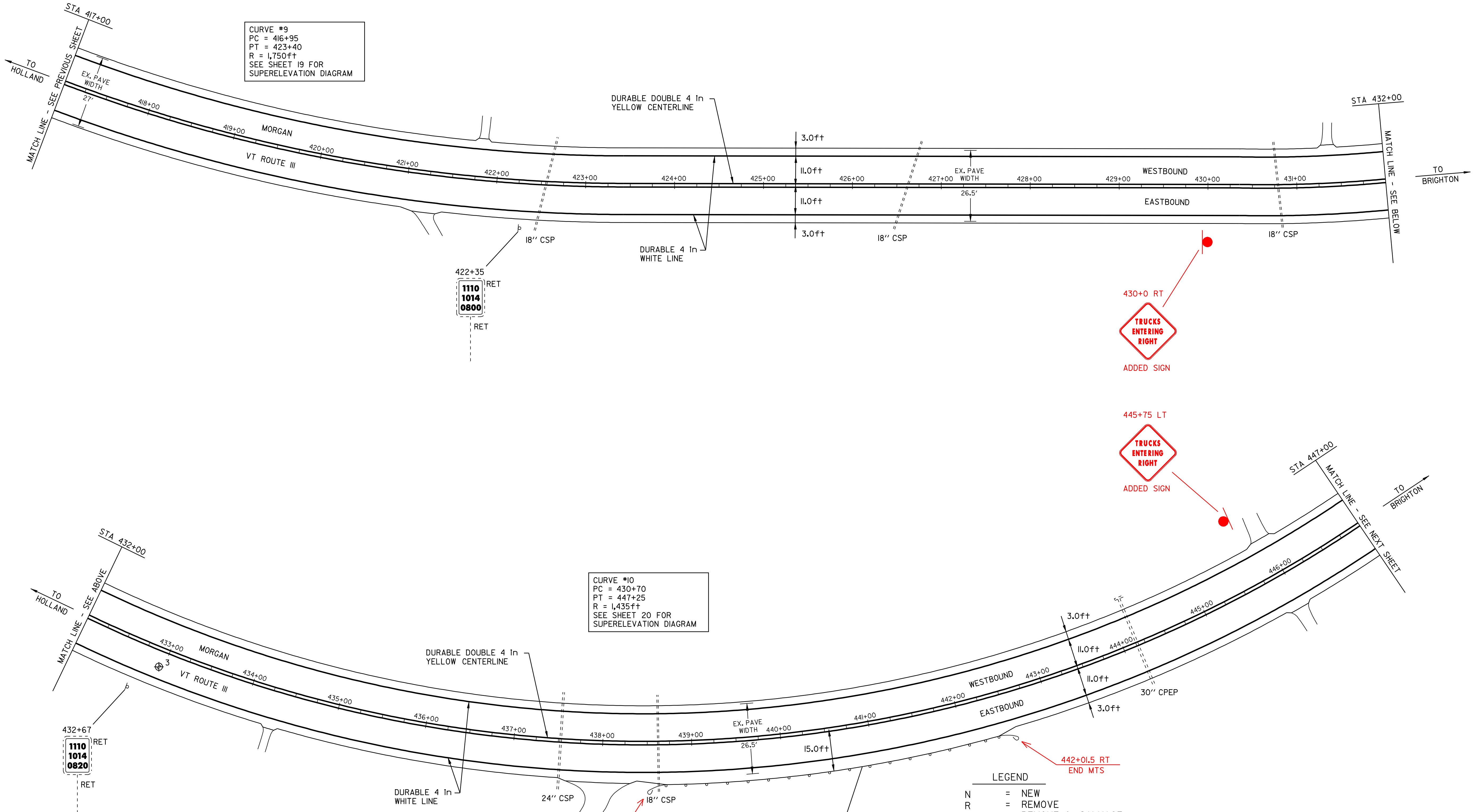
TEMPORARY AND DURABLE 4 In WHITE LINE
STA 417+00 TO 447+00
SOLID LT&RT

REMOVAL AND DISPOSAL OF GUIDE POSTS
STA 439+20 TO 441+73 RT - I3

MANUFACTURED TERMINAL SECTION (FLARED)
~~STA 438+40 TO 438+77 RT~~
~~STA 442+13 TO 442+50 RT~~

STEEL BEAM GUARD RAIL (GALVANIZED)
~~STA 438+77 TO 442+13 RT~~
439+01.5 ~ 441+64 RT

438+64 ~ 439+01.5 RT
441+64 ~ 442+01.5 RT



PAVEMENT CORES -

#	TOTAL DEPTH (In)	SOLID CORE	COMMENTS
3	5 1/2	YES	NON-DRAINABLE BASE, BOTTOM 2" BROKE UP

NOTE:
- NO PCC UNDER ANY CORES
- NO CORES OVER ASPHALTED (UNLESS NOTED)
- NO SHOULDER CORES

CURVE #10
PC = 430+70
PT = 447+25
R = 1,435ft
SEE SHEET 20 FOR SUPERELEVATION DIAGRAM

CURVE #9
PC = 416+95
PT = 423+40
R = 1,750ft
SEE SHEET 19 FOR SUPERELEVATION DIAGRAM

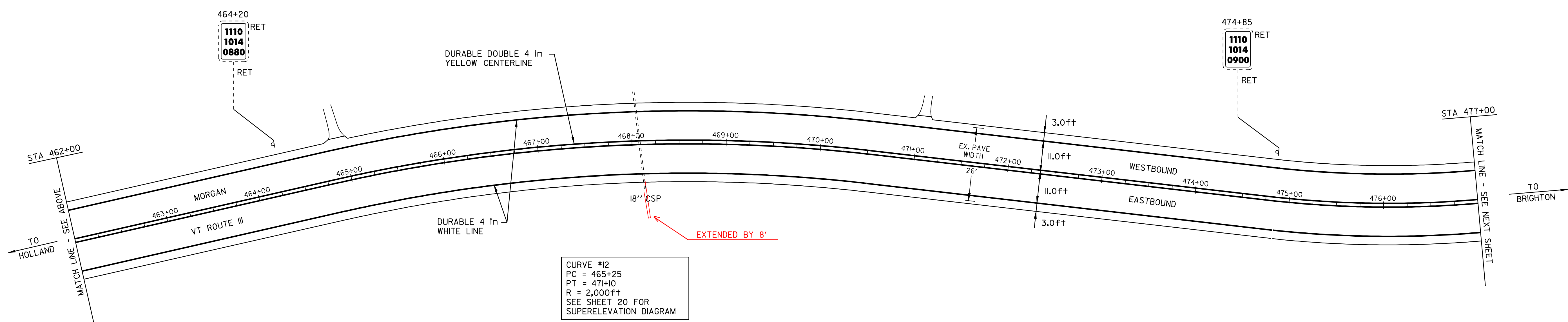
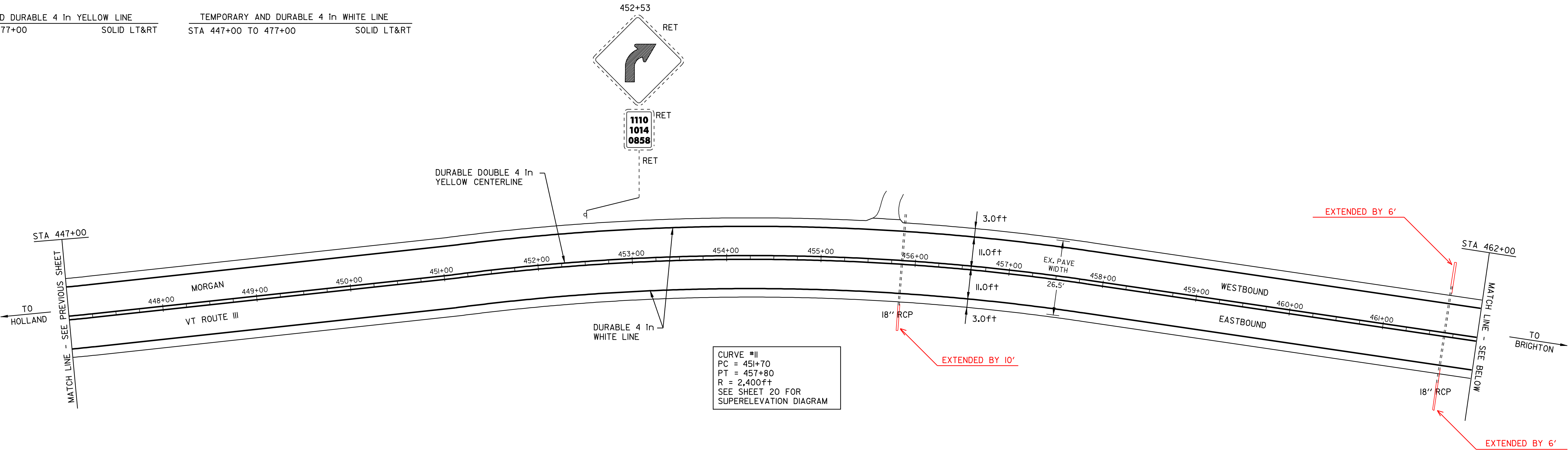
LEGEND

N	=	NEW
R	=	REMOVE
R&S	=	REMOVE & SALVAGE
S	=	SALVAGE
RET	=	RETAIN
B-TO-B	=	BACK TO BACK
⊕	⊗	CATCH BASIN/DI
⊕	⊗	EXISTING THROAT DI
I		MARKER POST
⊗		UTILITY POLE
⊗		UTIL. POLE W/UNDERGROUND UTIL.
⊗		DRIVE

~~STA 438+40 TO 438+77 RT~~
INSTALL MANUFACTURED TERMINAL SECTION (FLARED)
STA 439+20 TO 441+73 RT
REMOVAL AND DISPOSAL OF GUIDE POSTS
~~STA 438+77 TO 442+13 RT~~
INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)
~~STA 442+13 TO 442+50 RT~~
INSTALL MANUFACTURED TERMINAL SECTION (FLARED)

PAVING PROJECT LAYOUT SHEET #4

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	/pave/04c036/p04c036.dgn		
PRF FILE	p04c036i04.r	DATE PLOTTED	II-JUN-2007 14:
PROJ. NAME	MORGAN - BRIGHTON		
PROJ. NO.	STP 2404(1)S		
SHEET	11	OF	26 SHEETS



- 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
 - I = MARKER POST
 - ⊗ = UTILITY POLE
 - ⊗/I = UTIL. POLE W/UNDERGROUND UTIL.
 - ⌋ = DRIVE

PAVING PROJECT LAYOUT SHEET #5

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	/pave/04c036/p04c036.dgn		
PRF FILE	p04c036l05.l	DATE PLOTTED	II-JUN-2007 14:54
PROJ. NAME	MORGAN - BRIGHTON		
PROJ. NO.	STP 2404(1)S		
SHEET	12	OF	26 SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 477+00 TO 507+00 SOLID LT&RT
 STA 499+32 DOUBLE SOLID LT
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 477+00 TO 507+00 SOLID LT&RT
 (WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

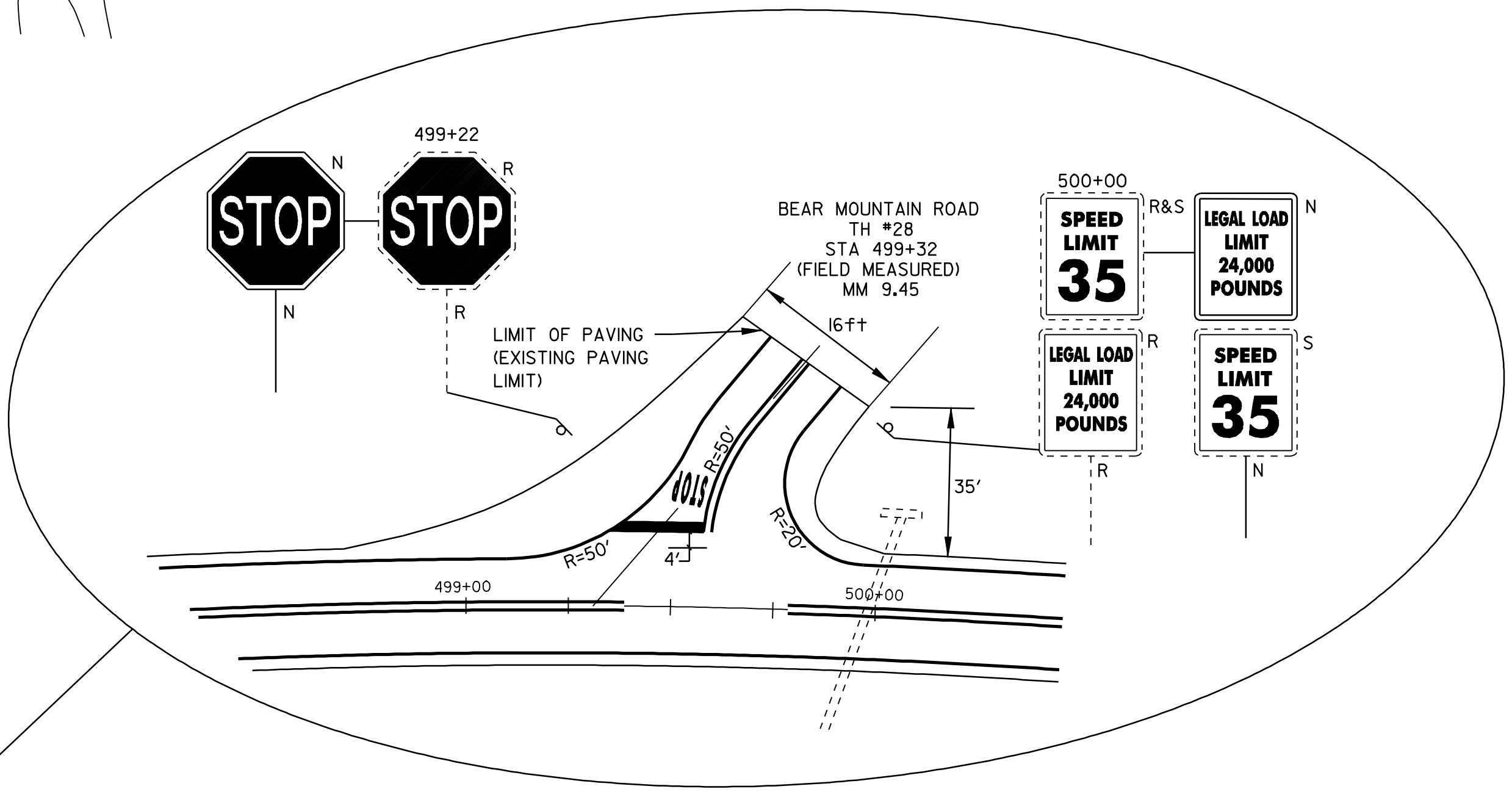
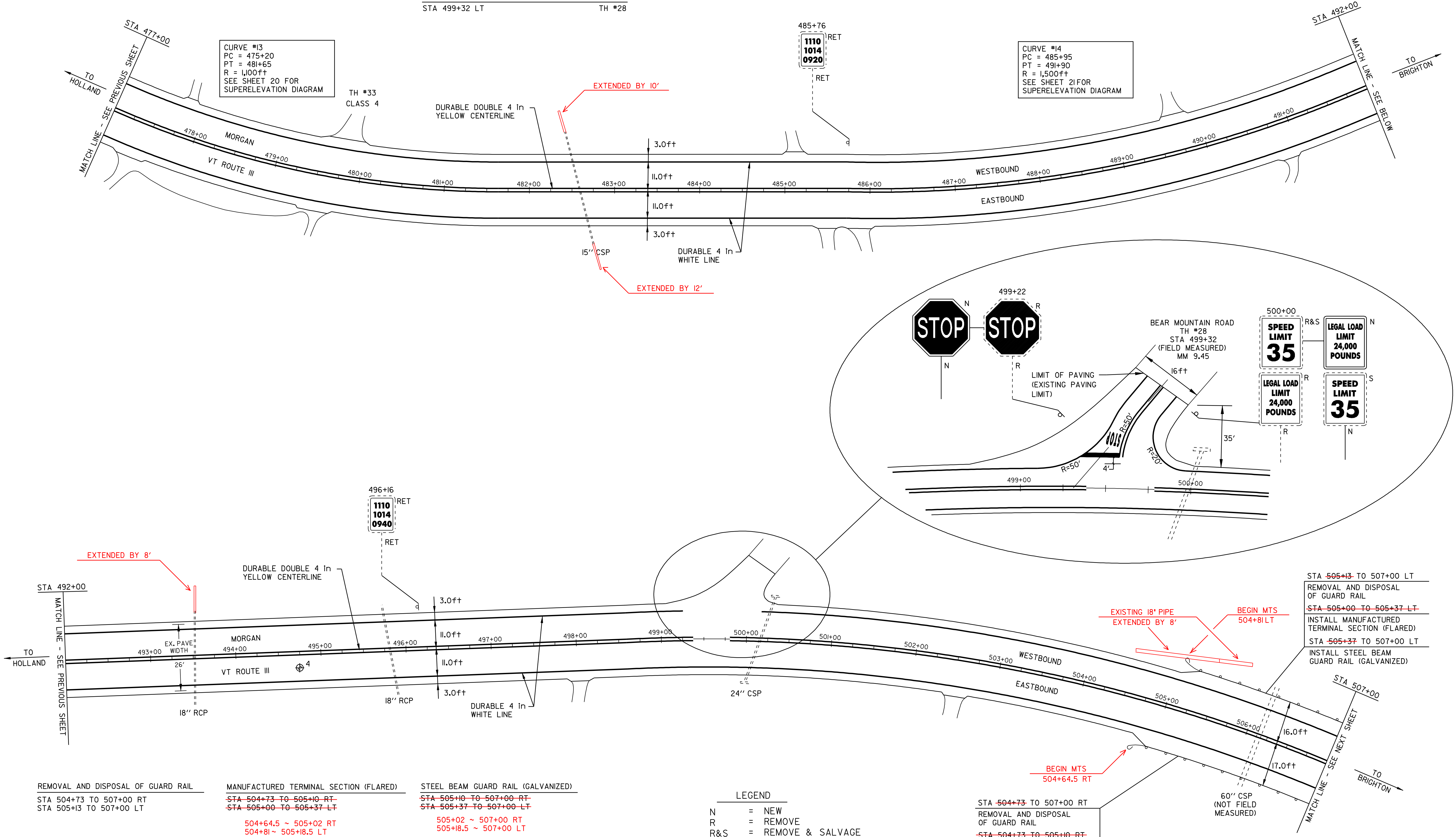
TEMPORARY AND DURABLE LETTER OR SYMBOL
 STA 499+32 LT "STOP"

REMOVING SIGNS
 3

TEMPORARY AND DURABLE 24 in STOP BAR
 STA 499+32 LT TH #28

CURVE #13
 PC = 475+20
 PT = 481+65
 R = 1,100ft
 SEE SHEET 20 FOR
 SUPERELEVATION DIAGRAM

CURVE #14
 PC = 485+95
 PT = 491+90
 R = 1,500ft
 SEE SHEET 21 FOR
 SUPERELEVATION DIAGRAM



STA 505+13 TO 507+00 LT
 REMOVAL AND DISPOSAL
 OF GUARD RAIL
~~STA 505+00 TO 505+37 LT~~
 INSTALL MANUFACTURED
 TERMINAL SECTION (FLARED)
 STA 505+37 TO 507+00 LT
 INSTALL STEEL BEAM
 GUARD RAIL (GALVANIZED)

REMOVAL AND DISPOSAL OF GUARD RAIL
 STA 504+73 TO 507+00 RT
 STA 505+13 TO 507+00 LT

MANUFACTURED TERMINAL SECTION (FLARED)
 STA 504+73 TO 505+10 RT
 STA 505+00 TO 505+37 LT
 504+64.5 ~ 505+02 RT
 504+81 ~ 505+18.5 LT

STEEL BEAM GUARD RAIL (GALVANIZED)
 STA 505+10 TO 507+00 RT
 STA 505+37 TO 507+00 LT
 505+02 ~ 507+00 RT
 505+18.5 ~ 507+00 LT

- 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
 - I = MARKER POST
 - ⊗ = UTILITY POLE
 - ⊗ = UTIL. POLE
 - ⊗ = W/UNDERGROUND UTIL.
 - ⊗ = DRIVE

STA 504+73 TO 507+00 RT
 REMOVAL AND DISPOSAL
 OF GUARD RAIL
~~STA 504+73 TO 505+10 RT~~
 INSTALL MANUFACTURED
 TERMINAL SECTION (FLARED)
 STA 505+10 TO 507+00 RT
 INSTALL STEEL BEAM
 GUARD RAIL (GALVANIZED)

PAVEMENT CORES - ⊕

#	TOTAL DEPTH (in)	SOLID CORE	COMMENTS
4	7 1/2	YES	NON-DRAINABLE BASE

NOTE:
 - NO PCC UNDER ANY CORES
 - NO CORES OVER ASPHALTED (UNLESS NOTED)
 - NO SHOULDER CORES

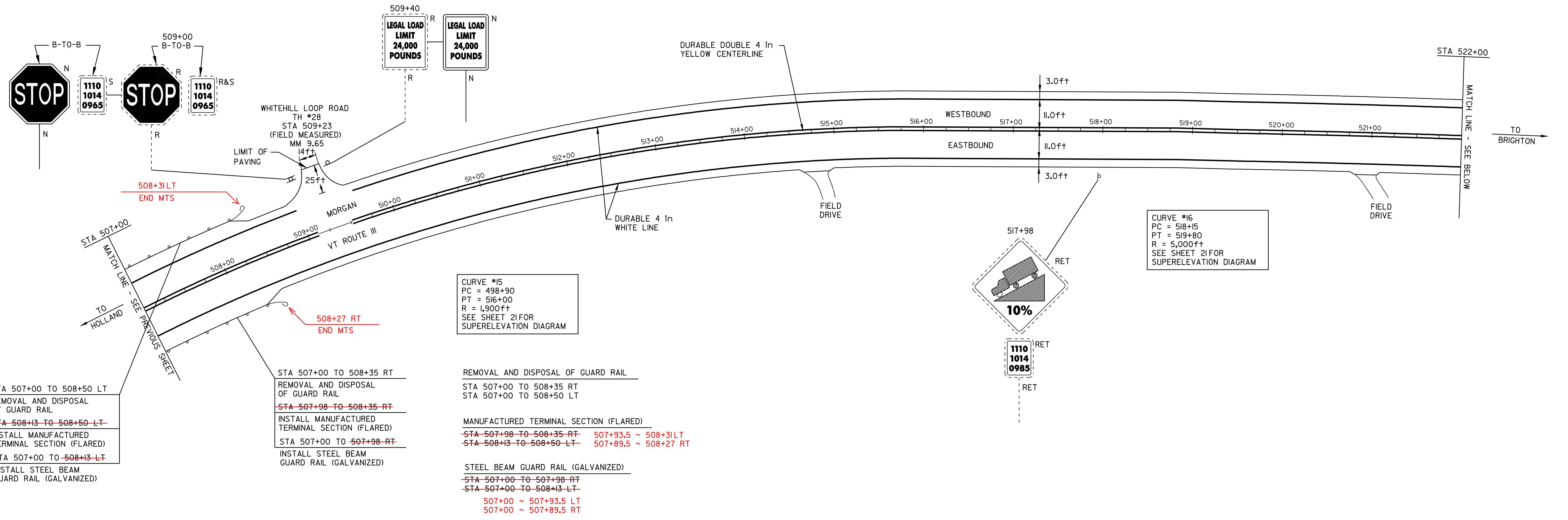
PAVING PROJECT LAYOUT SHEET #6

DESIGNED BY BCE/PJM DATE 8-05
 DRAWN BY C.E.A., INC. DATE 8-05
 DESIGN FILE NO. /pave/04c036/p04c036.dgn
 PRF FILE p04c036i06.1 DATE PLOTTED II-JUN-2007 14:
 PROJ. NAME **MORGAN - BRIGHTON**
 PROJ. NO. **STP 2404(1)S**
 SHEET **13** OF **26** SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 507+00 TO 528+30 SOLID LT&RT
 STA 528+30 TO 535+65 SOLID LT & DASHED RT
 STA 535+65 TO 537+00 DASHED LT & SOLID RT
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 507+00 TO 537+00 SOLID LT&RT
 (WITH EDGE LINE BREAKS FOR TOWN HIGHWAYS)

REMOVING SIGNS
 3



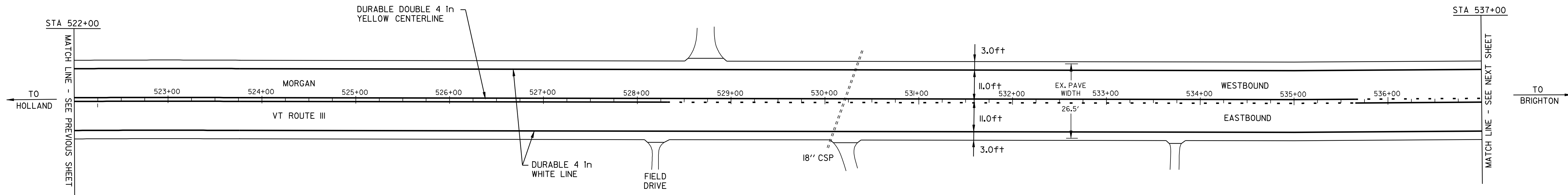
STA 507+00 TO 508+50 LT
 REMOVAL AND DISPOSAL
 OF GUARD RAIL
~~STA 508+13 TO 508+50 LT~~
 INSTALL MANUFACTURED
 TERMINAL SECTION (FLARED)
 STA 507+00 TO ~~508+13~~ LT
 INSTALL STEEL BEAM
 GUARD RAIL (GALVANIZED)

STA 507+00 TO 508+35 RT
 REMOVAL AND DISPOSAL
 OF GUARD RAIL
~~STA 507+98 TO 508+35 RT~~
 INSTALL MANUFACTURED
 TERMINAL SECTION (FLARED)
 STA 507+00 TO ~~507+98~~ RT
 INSTALL STEEL BEAM
 GUARD RAIL (GALVANIZED)

REMOVAL AND DISPOSAL OF GUARD RAIL
 STA 507+00 TO 508+35 RT
 STA 507+00 TO 508+50 LT

MANUFACTURED TERMINAL SECTION (FLARED)
~~STA 507+98 TO 508+35 RT~~ 507+93.5 ~ 508+31LT
~~STA 508+13 TO 508+50 LT~~ 507+89.5 ~ 508+27 RT

STEEL BEAM GUARD RAIL (GALVANIZED)
~~STA 507+00 TO 507+98 RT~~
~~STA 507+00 TO 508+13 LT~~
 507+00 ~ 507+93.5 LT
 507+00 ~ 507+89.5 RT



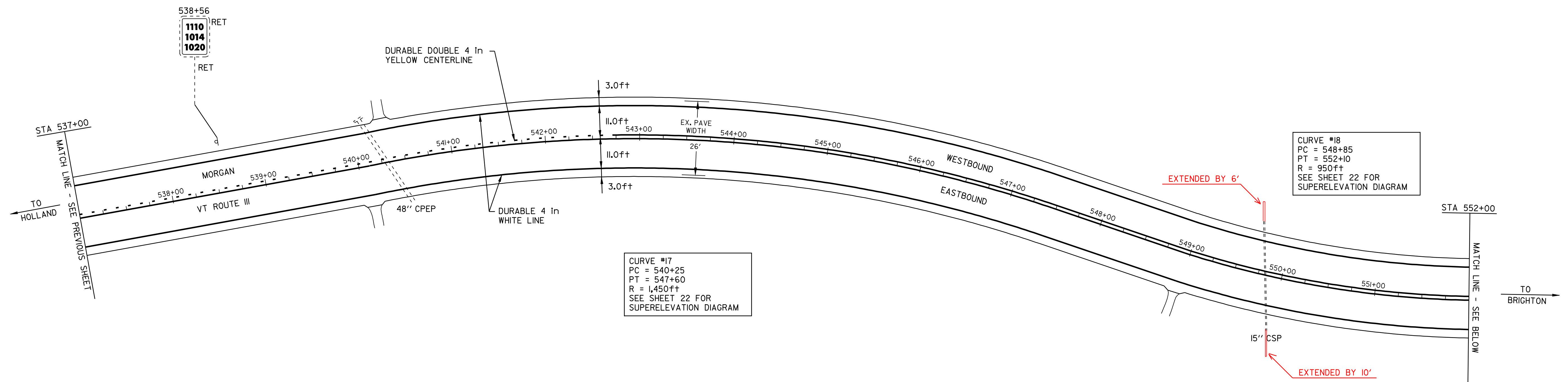
- LEGEND
- N = NEW
 - R = REMOVE
 - R&S = REMOVE & SALVAGE
 - S = SALVAGE
 - RET = RETAIN
 - B-T-O-B = BACK TO BACK
 - ⊕ ⊞ ⊠ = CATCH BASIN/DI
 - ⊙ ⊠ = EXISTING THROAT DI
 - I = MARKER POST
 - ⊗ = UTILITY POLE
 - ⊗/I = UTIL. POLE W/UNDERGROUND UTIL.
 - ⌋ = DRIVE

PAVING PROJECT LAYOUT SHEET #7

DESIGNED BY BCE/PJM DATE 8-05
 DRAWN BY C.E.A., INC. DATE 8-05
 DESIGN FILE NO. /pave/04c036/p04c036.dgn
 PRF FILE p04c036i07.1 DATE PLOTTED II-JUN-2007 14:
 PROJ. NAME **MORGAN - BRIGHTON**
 PROJ. NO. **STP 2404(1)S**
 SHEET **14** OF **26** SHEETS

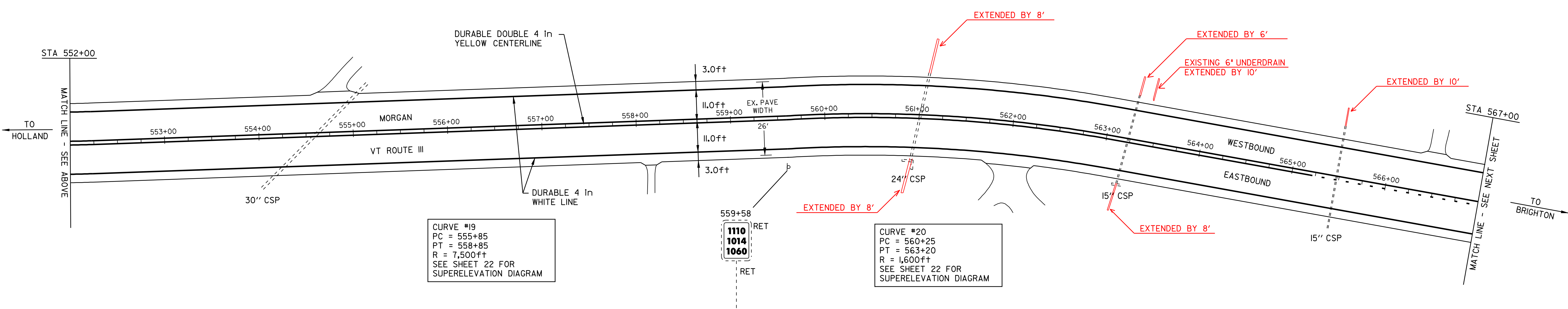
TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 537+00 TO 542+70 DASHED LT & SOLID RT
 STA 542+70 TO 565+20 SOLID LT&RT
 STA 565+20 TO 567+00 SOLID LT & DASHED RT

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 537+00 TO 567+00 SOLID LT&RT



CURVE #17
 PC = 540+25
 PT = 547+60
 R = 1,450ft
 SEE SHEET 22 FOR
 SUPERELEVATION DIAGRAM

CURVE #18
 PC = 548+85
 PT = 552+10
 R = 950ft
 SEE SHEET 22 FOR
 SUPERELEVATION DIAGRAM



CURVE #19
 PC = 555+85
 PT = 558+85
 R = 7,500ft
 SEE SHEET 22 FOR
 SUPERELEVATION DIAGRAM

CURVE #20
 PC = 560+25
 PT = 563+20
 R = 1,600ft
 SEE SHEET 22 FOR
 SUPERELEVATION DIAGRAM

- 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
 - I = MARKER POST
 - ⊗ = UTILITY POLE
 - ⊗/I = UTIL. POLE W/UNDERGROUND UTIL.
 - ⌌ = DRIVE

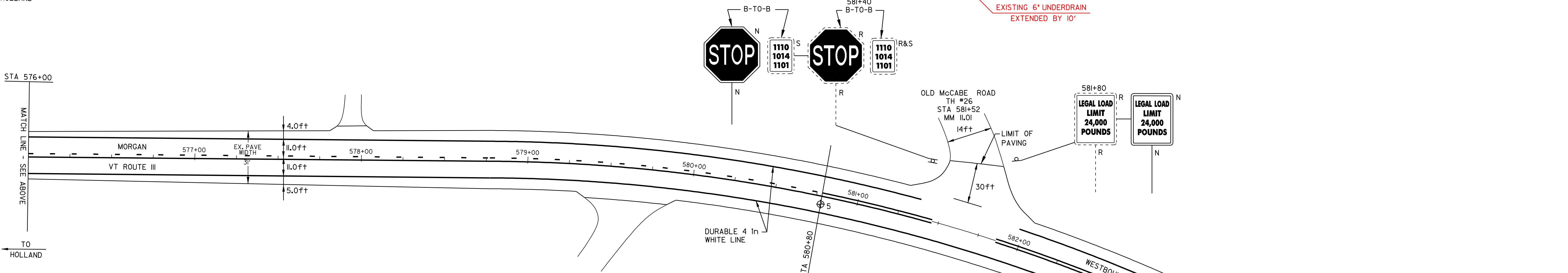
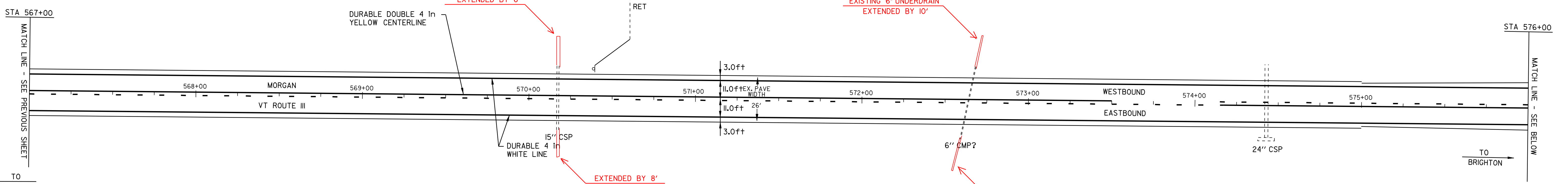
PAVING PROJECT LAYOUT SHEET #8

DESIGNED BY BCE/PJM DATE 8-05
 DRAWN BY C.E.A., INC. DATE 8-05
 DESIGN FILE NO. /pave/04c036/p04c036.dgn
 PRF FILE p04c036i08.1 DATE PLOTTED 11-JUN-2007 14:44
 PROJ. NAME **MORGAN - BRIGHTON**
 PROJ. NO. **STP 2404(1)S**
 SHEET **15** OF **26** SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 567+00 TO 573+50 SOLID LT & DASHED RT
 STA 573+50 TO 574+15 DASHED
 STA 574+15 TO 580+80 DASHED LT & SOLID RT
 STA 580+80 TO 585+39 SOLID LT&RT
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 567+00 TO 585+39 SOLID LT&RT
 (WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)
 TEMPORARY AND DURABLE LETTER OR SYMBOL
 STA 584+00 RT "STOP AHEAD"

REMOVING SIGNS
 4



END COLD PLANE/RECLAIM SECTION
 BEGIN FULL DEPTH COLD PLANE SECTION

CURVE #21
 PC = 579+15
 PT = 582+80
 R = 850ft
 SEE SHEET 22 FOR SUPERELEVATION DIAGRAM

PAVEMENT CORES -

#	TOTAL DEPTH (in)	SOLID CORE	COMMENTS
5	6	YES	NON-DRAINABLE BASE, NEW TYPICAL

NOTE:
 - NO PCC UNDER ANY CORES
 - NO CORES OVER ASPHALTED (UNLESS NOTED)
 - NO SHOULDER CORES

- LEGEND
- N = NEW
 - R = REMOVE
 - R&S = REMOVE & SALVAGE
 - S = SALVAGE
 - RET = RETAIN
 - B-T-O-B = BACK TO BACK
 - ⊕ ⊞ ⊠ = CATCH BASIN/DI
 - ⊙ ⊞ = EXISTING THROAT DI
 - I = MARKER POST
 - ⊗ ⊘ = UTILITY POLE
 - ⊗ ⊘ ⊗ ⊘ = UTIL. POLE W/UNDERGROUND UTIL.
 - ⊔ = DRIVE

PAVING PROJECT LAYOUT SHEET #9

DESIGNED BY BCE/PJM DATE 8-05
 DRAWN BY C.E.A., INC. DATE 8-05
 DESIGN FILE NO. /pave/04c036/p04c036.dgn
 PRF FILE p04c036i09.1 DATE PLOTTED II-JUN-2007 14:
 PROJ. NAME **MORGAN - BRIGHTON**
 PROJ. NO. **STP 2404(1)S**
 SHEET **16** OF **26** SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 0+00 to 7+05
 SOLID LT&RT

TEMPORARY AND DURABLE LETTER OR SYMBOL
 STA 7+02 RT
 "STOP"

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 0+00 to 7+05
 SOLID LT&RT

TEMPORARY AND DURABLE 24 in STOP BAR
 STA 7+02 RT
 VT ROUTE 114

REMOVING SIGNS
 2

REMOVAL AND DISPOSAL OF GUARD RAIL
 STA 3+26 TO 4+76 RT
 STA 3+30 TO 4+55 LT
 STA 5+26 TO 6+51 RT
 STA 5+05 TO 6+43 LT

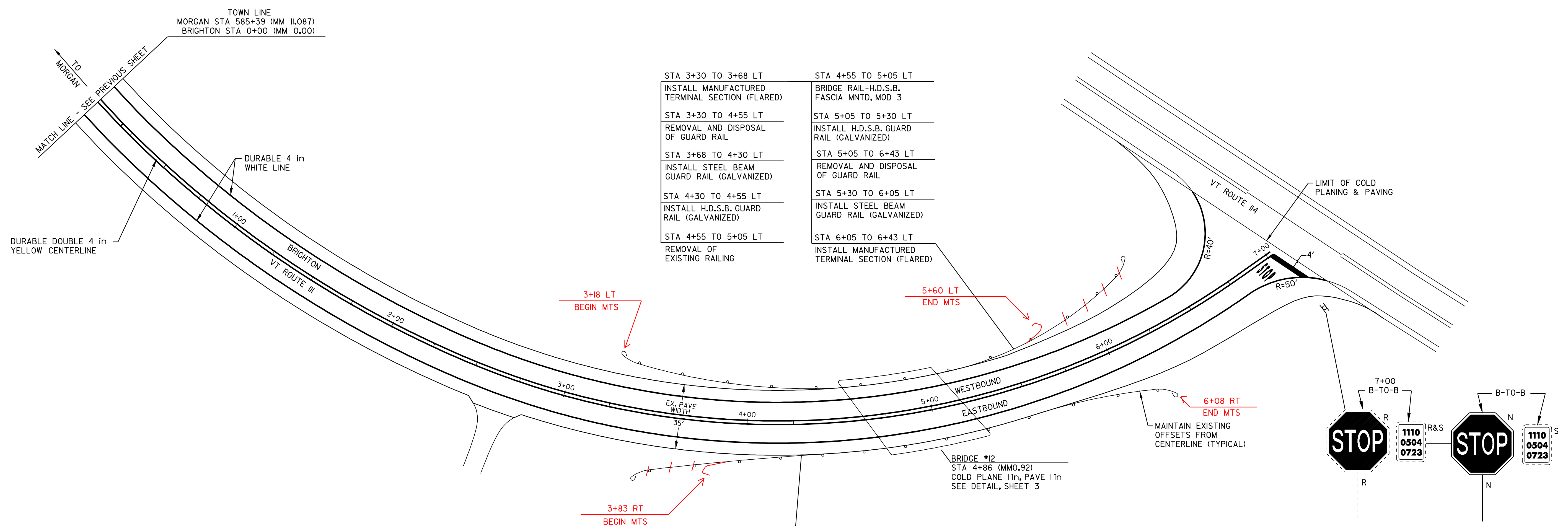
MANUFACTURED TERMINAL SECTION (FLARED)
 STA 3+26 TO 3+64 RT
 STA 3+30 TO 3+68 LT
 STA 6+05 TO 6+43 LT
 STA 6+14 TO 6+51 RT

STEEL BEAM GUARD RAIL (GALVANIZED)
 STA 3+64 TO 4+51 RT
 STA 3+68 TO 4+30 LT
 STA 5+30 TO 6+05 LT
 STA 5+51 TO 6+14 RT

H.D. STEEL BEAM GUARD RAIL (GALVANIZED)
 STA 4+30 TO 4+55 LT
 STA 4+51 TO 4+76 RT
 STA 5+05 TO 5+30 LT
 STA 5+26 TO 5+51 RT

REMOVAL OF EXISTING RAILING
 STA 4+55 TO 5+05 LT
 STA 4+76 TO 5+26 RT

BRIDGE RAIL - H.D.S.B. FASCIA MOUNTED, MOD. 3
 STA 4+76 TO 5+26 RT
 STA 4+55 TO 5+05 LT



STA 3+30 TO 3+68 LT INSTALL MANUFACTURED TERMINAL SECTION (FLARED)	STA 4+55 TO 5+05 LT BRIDGE RAIL-H.D.S.B. FASCIA MNTD, MOD 3
STA 3+30 TO 4+55 LT REMOVAL AND DISPOSAL OF GUARD RAIL	STA 5+05 TO 5+30 LT INSTALL H.D.S.B. GUARD RAIL (GALVANIZED)
STA 3+68 TO 4+30 LT INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)	STA 5+05 TO 6+43 LT REMOVAL AND DISPOSAL OF GUARD RAIL
STA 4+30 TO 4+55 LT INSTALL H.D.S.B. GUARD RAIL (GALVANIZED)	STA 5+30 TO 6+05 LT INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)
STA 4+55 TO 5+05 LT REMOVAL OF EXISTING RAILING	STA 6+05 TO 6+43 LT INSTALL MANUFACTURED TERMINAL SECTION (FLARED)

STA 3+26 TO 3+64 RT INSTALL MANUFACTURED TERMINAL SECTION (FLARED)	STA 4+76 TO 5+26 RT BRIDGE RAIL-H.D.S.B. FASCIA MNTD, MOD 3
STA 3+26 TO 4+76 RT REMOVAL AND DISPOSAL OF GUARD RAIL	STA 5+26 TO 5+51 RT INSTALL H.D.S.B. GUARD RAIL (GALVANIZED)
STA 3+64 TO 4+51 RT INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)	STA 5+26 TO 6+51 RT REMOVAL AND DISPOSAL OF GUARD RAIL
STA 4+51 TO 4+76 RT INSTALL H.D.S.B. GUARD RAIL (GALVANIZED)	STA 5+51 TO 6+14 RT INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)
STA 4+76 TO 5+26 RT REMOVAL OF EXISTING RAILING	STA 6+14 TO 6+51 RT INSTALL MANUFACTURED TERMINAL SECTION (FLARED)

- 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
 - I MARKER POST
 - ⊗ UTILITY POLE
 - ⊗ UTIL. POLE W/UNDERGROUND UTIL.
 - ⊗ DRIVE

PAVING PROJECT LAYOUT SHEET #10

DESIGNED BY BCE/PJM DATE 8-05

DRAWN BY C.E.A., INC. DATE 8-05

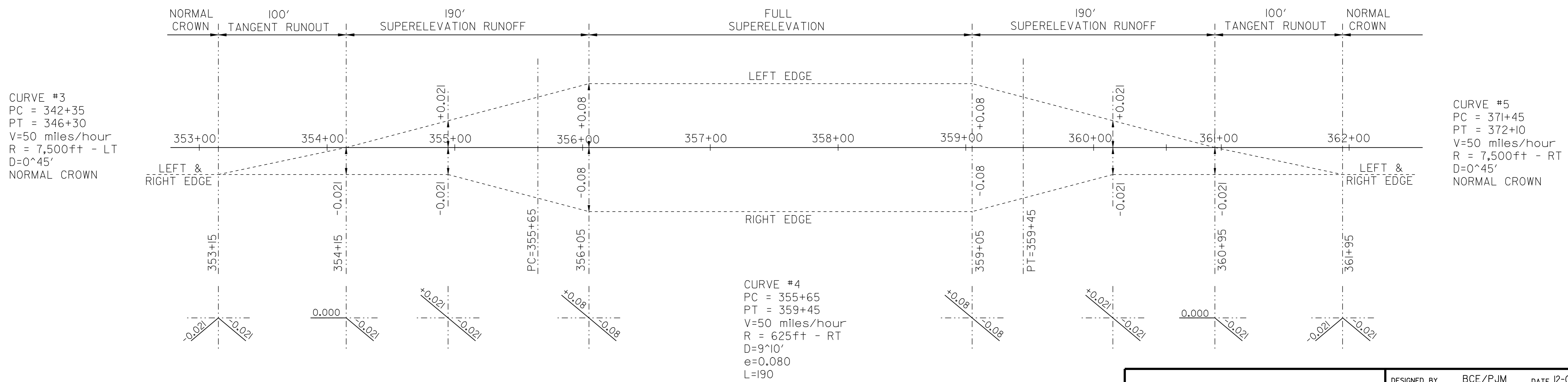
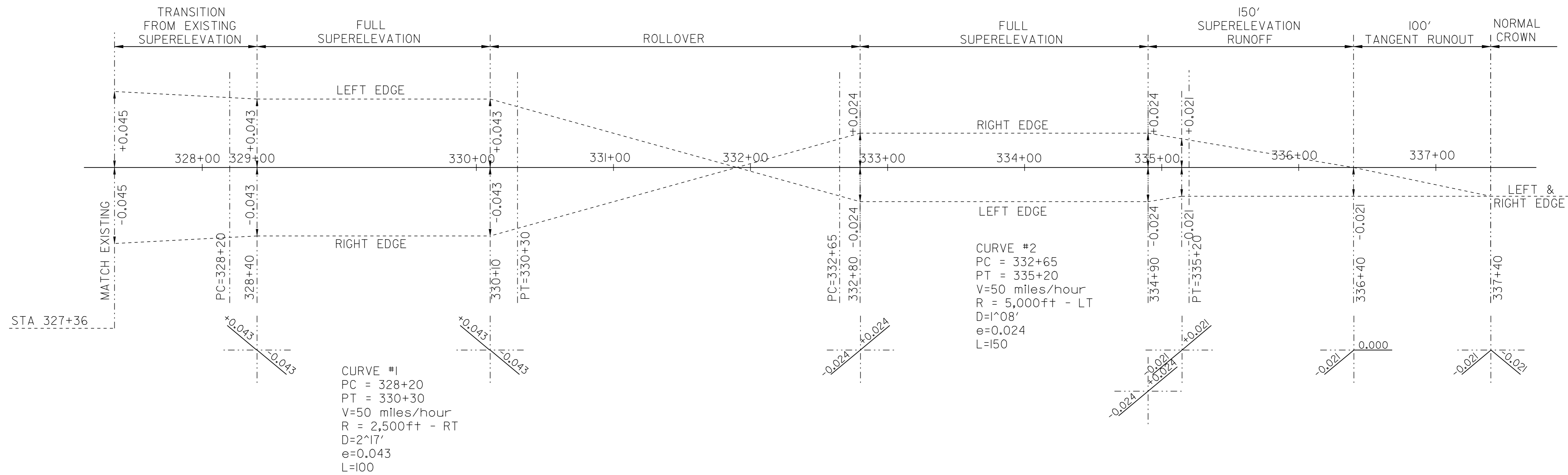
DESIGN FILE NO. /pave/04c036/p04c036.dgn

PRF FILE p04c036i10.1 DATE PLOTTED II-JUN-2007 14:30

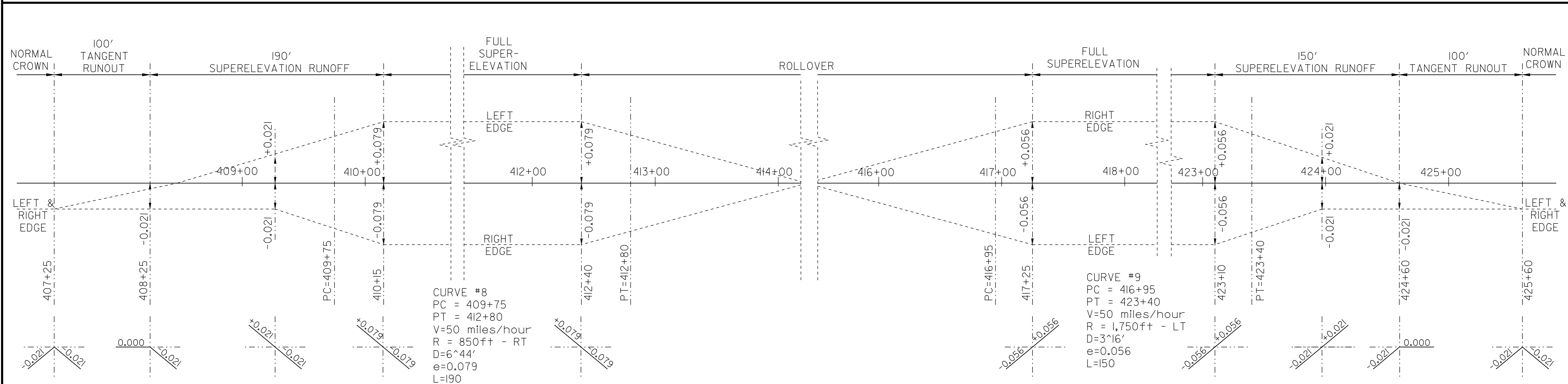
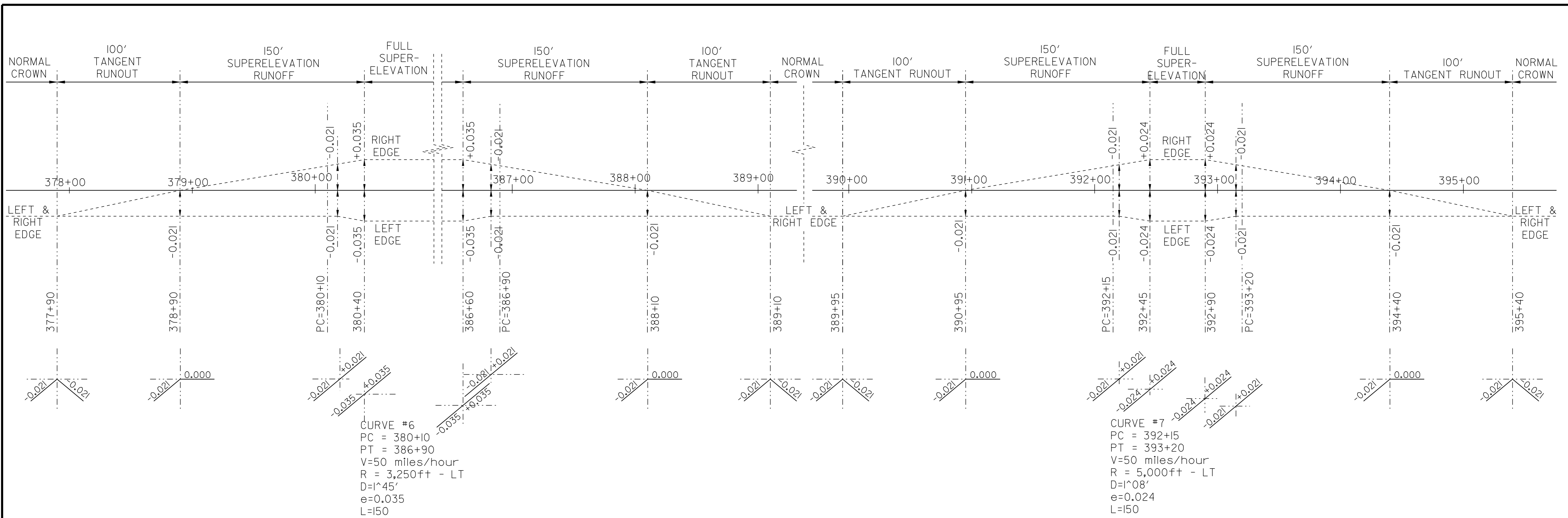
PROJ. NAME **MORGAN - BRIGHTON**

PROJ. NO. **STP 2404(1)S**

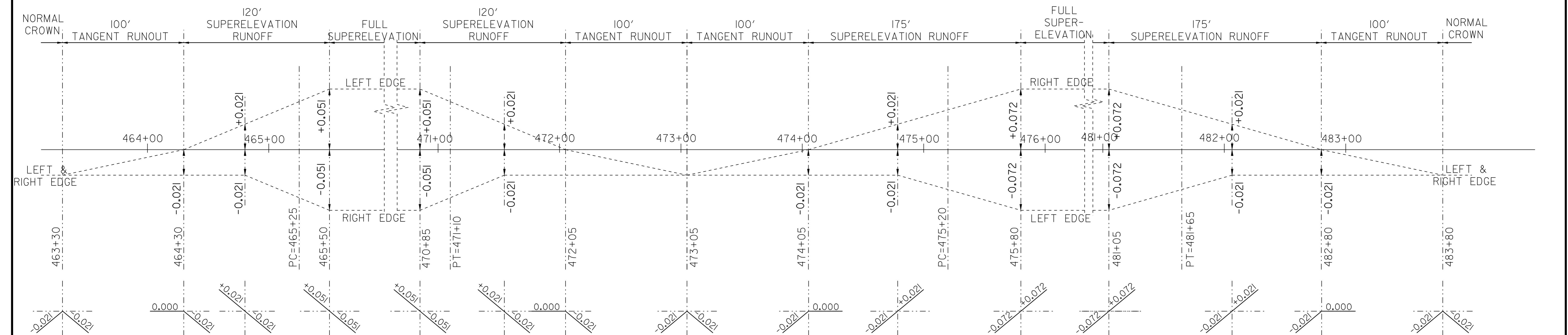
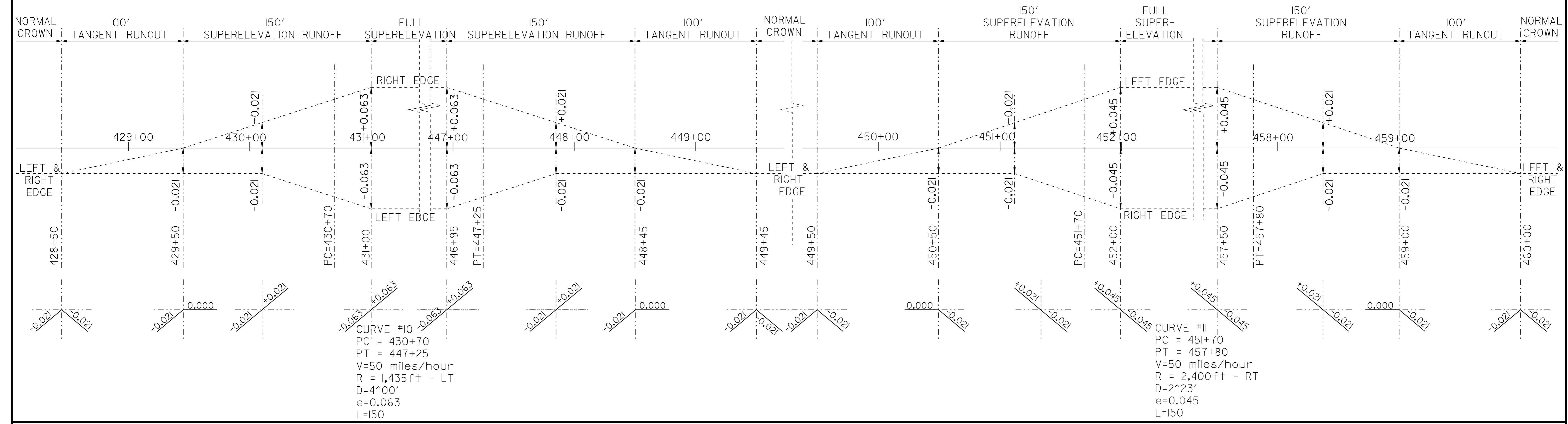
SHEET **17** OF **26** SHEETS



<h2 style="margin: 0;">SUPERELEVATION BANKING DIAGRAM SHEET #1</h2>		DESIGNED BY <u>BCE/PJM</u> DATE <u>12-05</u>
		DRAWN BY <u>C.E.A., INC.</u> DATE <u>12-05</u>
		DESIGN FILE NO. <u>/pave/04c036/p04c036.dgn</u>
PRF FILE <u>p04c036bd.l</u>	DATE <u>11-JUN-2007 14:5</u>	
PROJ. NAME MORGAN - BRIGHTON		
PROJ. NO. STP 2404(1)S		
SHEET 18 OF 26 SHEETS		

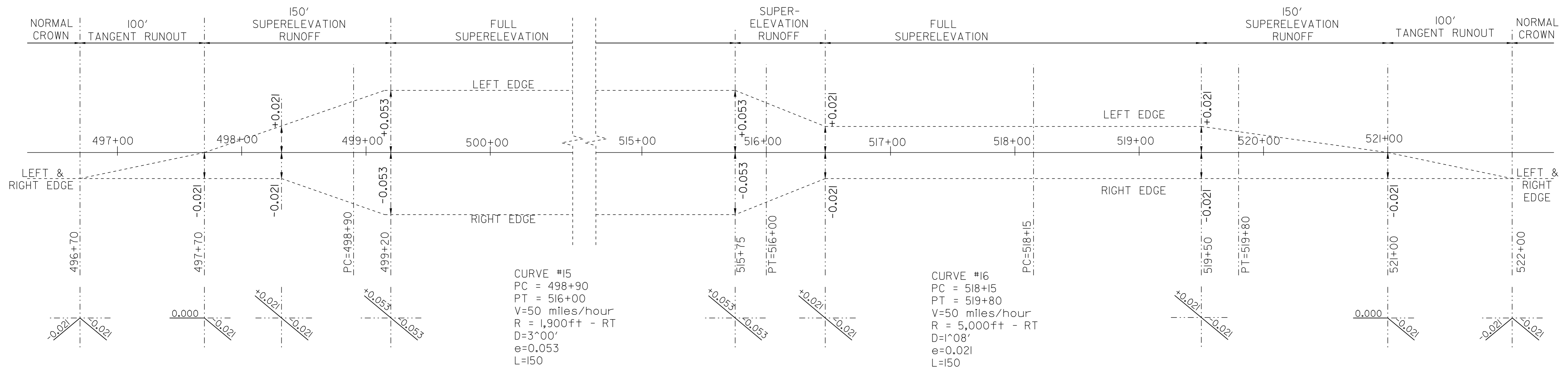
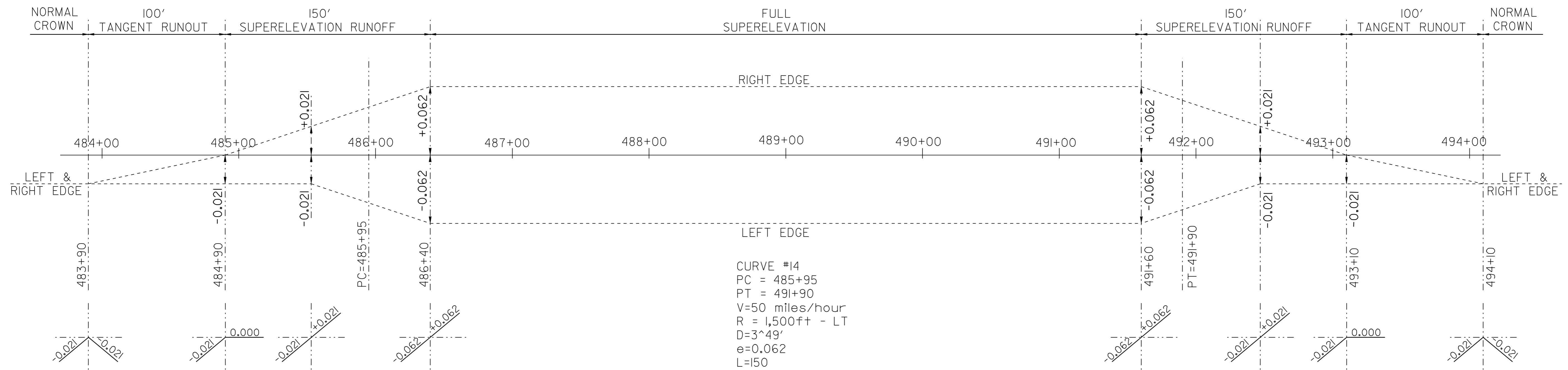


<h2>SUPERELEVATION BANKING DIAGRAM SHEET #2</h2>	DESIGNED BY	BCE/PJM	DATE	12-05
	DRAWN BY	C.E.A., INC.	DATE	12-05
	DESIGN FILE NO.	/pave/04c036/p04c036.dgn		
	PRF FILE	p04c036bd2.i	DATE PLOTTED	11-JUN-2007 14:5
	PROJ. NAME	MORGAN - BRIGHTON		
PROJ. NO.	STP 2404(1)S			
SHEET	19	OF	26	SHEETS

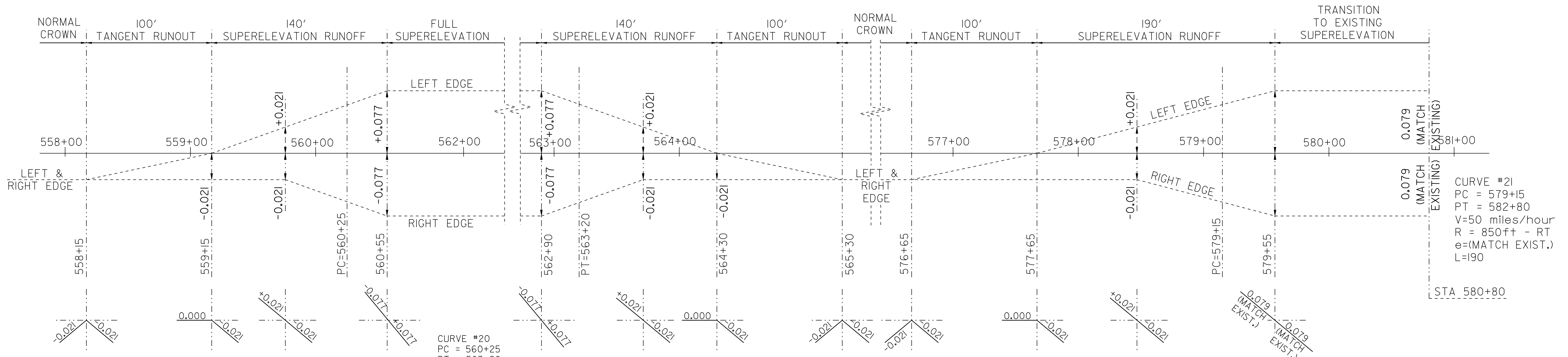
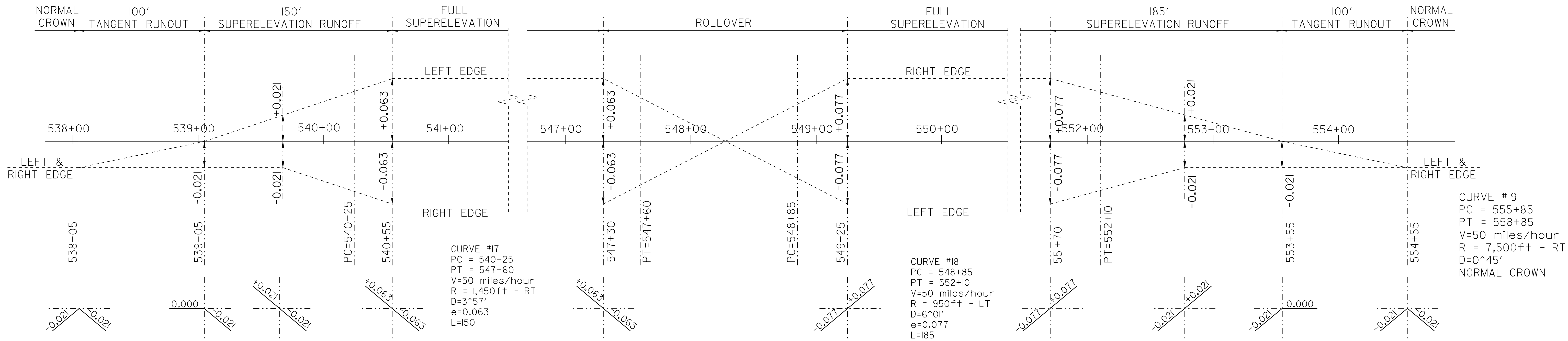


SUPERELEVATION BANKING DIAGRAM SHEET #3

DESIGNED BY	<u>BCE/PJM</u>	DATE	<u>12-05</u>
DRAWN BY	<u>C.E.A., INC.</u>	DATE	<u>12-05</u>
DESIGN FILE NO.	<u>/pave/04c036/p04c036.dgn</u>		
PRF FILE	<u>p04c036bd3.1</u>	DATE PLOTTED	<u>11-JUN-2007 14:5</u>
PROJ. NAME	MORGAN - BRIGHTON		
PROJ. NO.	STP 2404(1)S		
SHEET	20	OF	26 SHEETS



<h2>SUPERELEVATION BANKING DIAGRAM SHEET #4</h2>	DESIGNED BY	BCE/PJM	DATE	12-05
	DRAWN BY	C.E.A., INC.	DATE	12-05
	DESIGN FILE NO.	/pave/04c036/p04c036.dgn		
	PRF FILE	p04c036bd4.1	DATE PLOTTED	11-JUN-2007 14:5
	PROJ. NAME	MORGAN - BRIGHTON		
PROJ. NO.	STP 2404(1)S			
SHEET	21	OF	26	SHEETS



SUPERELEVATION BANKING DIAGRAM SHEET #5

DESIGNED BY	BCE/PJM	DATE	12-05
DRAWN BY	C.E.A., INC.	DATE	12-05
DESIGN FILE NO.	/pave/04c036/p04c036.dgn		
PRF FILE	p04c036bd5.1	DATE PLOTTED	11-JUN-2007 14:5
PROJ. NAME	MORGAN - BRIGHTON		
PROJ. NO.	STP 2404(1)S		
SHEET	22	OF	26 SHEETS

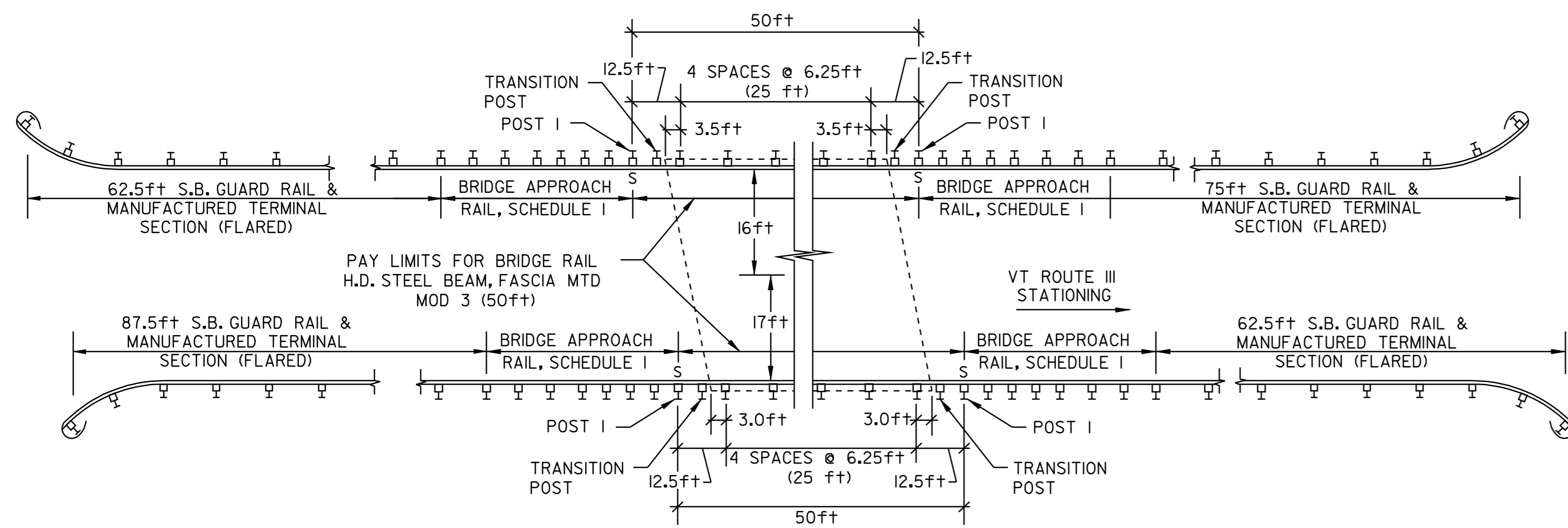
STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

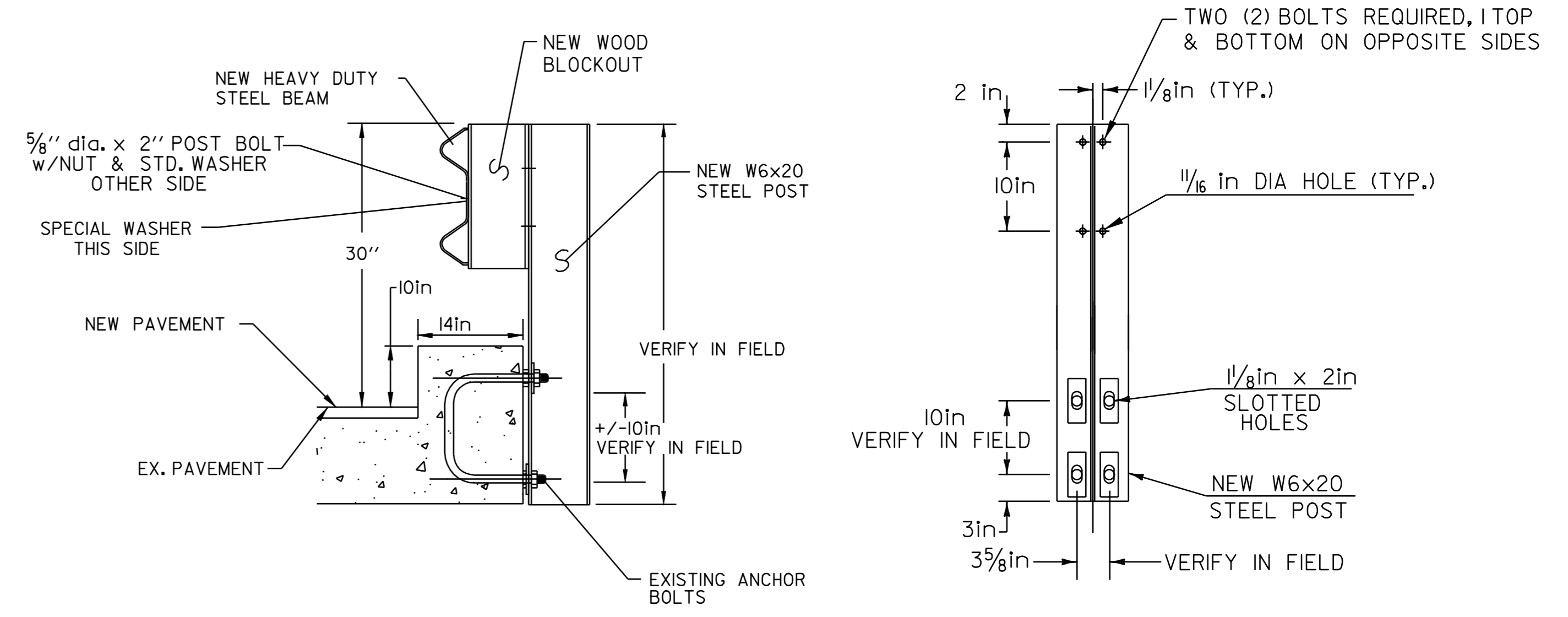
MILE MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST	NO. OF POSTS	NEW SIGN POSTS																				REMARKS	SIGN DETAIL	
		EA	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN			SALV TIS	FLANGED CHANNEL				SQUARE STEEL (in)			TUBULAR ALUMINUM (in)			TUBULAR STEEL (in)				W-SHAPE STEEL			DETAIL ON SHEET NUMBER	STD. SHEET NUMBER			
											lb/ft		1.75	2.0	2.5	ANCHOR	SUPPORTS	3.0	4.0	4.0 MOD	FOUND-ACTION	3.0	3.5	4.0	5.0	FTG. SIZE					WEIGHT	POST SIZE
											1.12	2.0	3.0	1.88	2.16			3.35	1.3	1.7		1.7	7.6	9.0	10.8	14.6	24"					
MORGAN 403+60 RT		1	24	30	5.0				1			X		X														REFER TO STANDARD E-121 FOR PLACEMENT.	E-141			
403+90 RT		1	30	30	6.25				1			X		X														BACK TO BACK	E-143			
499+22 LT		1	30	30	6.25				1			X		X															E-143			
500+00 LT		1	24	30	5.0				1			X		X														REFER TO STANDARD E-121 FOR PLACEMENT.	E-141			
509+00 LT		1	30	30	6.25				1			X		X														BACK TO BACK	E-143			
509+40 LT		1	24	30	5.0				1			X		X														REFER TO STANDARD E-121 FOR PLACEMENT.	E-141			
581+40 LT		1	30	30	6.25				1			X		X														BACK TO BACK	E-143			
581+80 LT		1	24	30	5.0				1			X		X														REFER TO STANDARD E-121 FOR PLACEMENT.	E-141			
584+00 RT		1	36	36	9.0				2			X		X															E-150			
BRIGHTON 7+00 RT		1	30	30	6.25				1			X		X														BACK TO BACK	E-143			
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S *SIGN POST DESIGN GUIDELINE.*					SF	SF	EA.	SF			FT	FT	FT	FT	FT	FT	EA.	LB	LB	LB	EA.	LB	LB	LB	EA.	EA.	LB					
SHEET TOTALS					60.25		6				165																					

TRAFFIC SIGN SUMMARY SHEET

PROJECT: **MORGAN - BRIGHTON** PROJECT NO.: **STP 2404(1)S**
 DATE: 9-05
 DESIGN FILE NAME: /pave/04c036/p04c036.dgn PLOT DATE: 11-JUN-2007 14:52
 IPARM FILE NAME: p04c036+ssl.l SURVEY DATE:
 SURVEYED BY: C.E.A., INC. DRAWN BY: C.E.A., INC.
 SQUAD LEADER: WOOLAVER SHEET: **23** OF **26**



BRIGHTON - BRIDGE #12
STA 4+86 - MM 0.92



POST DETAILS

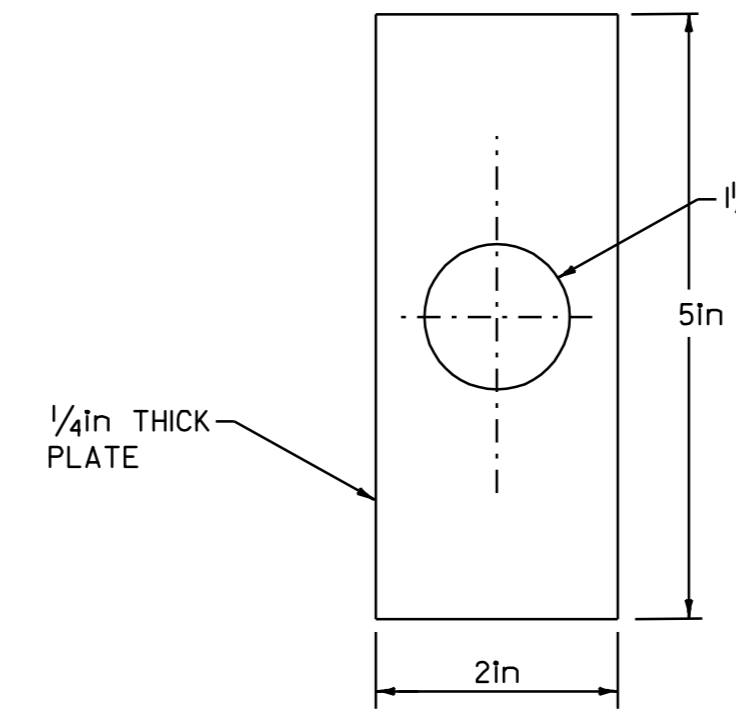
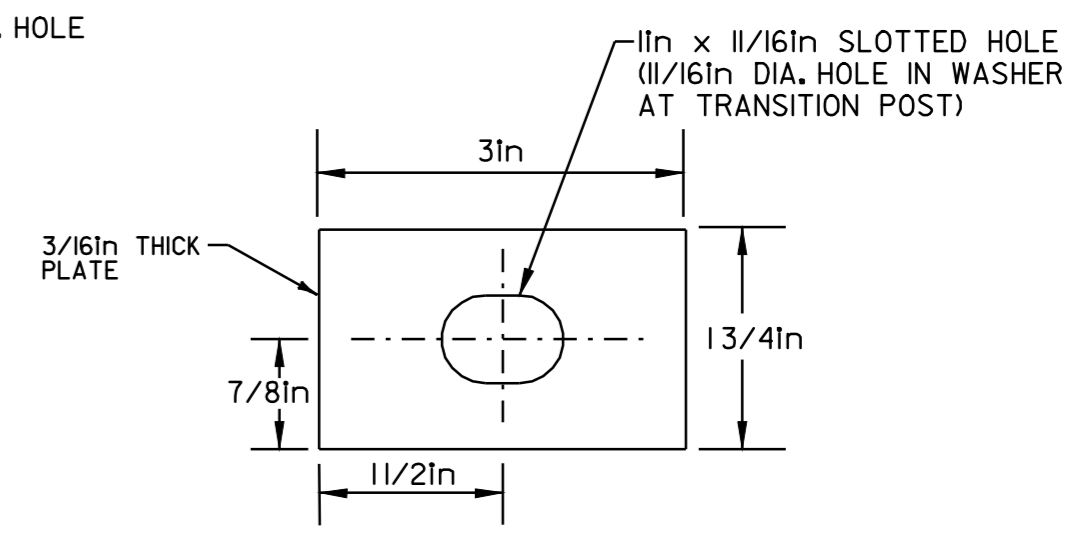


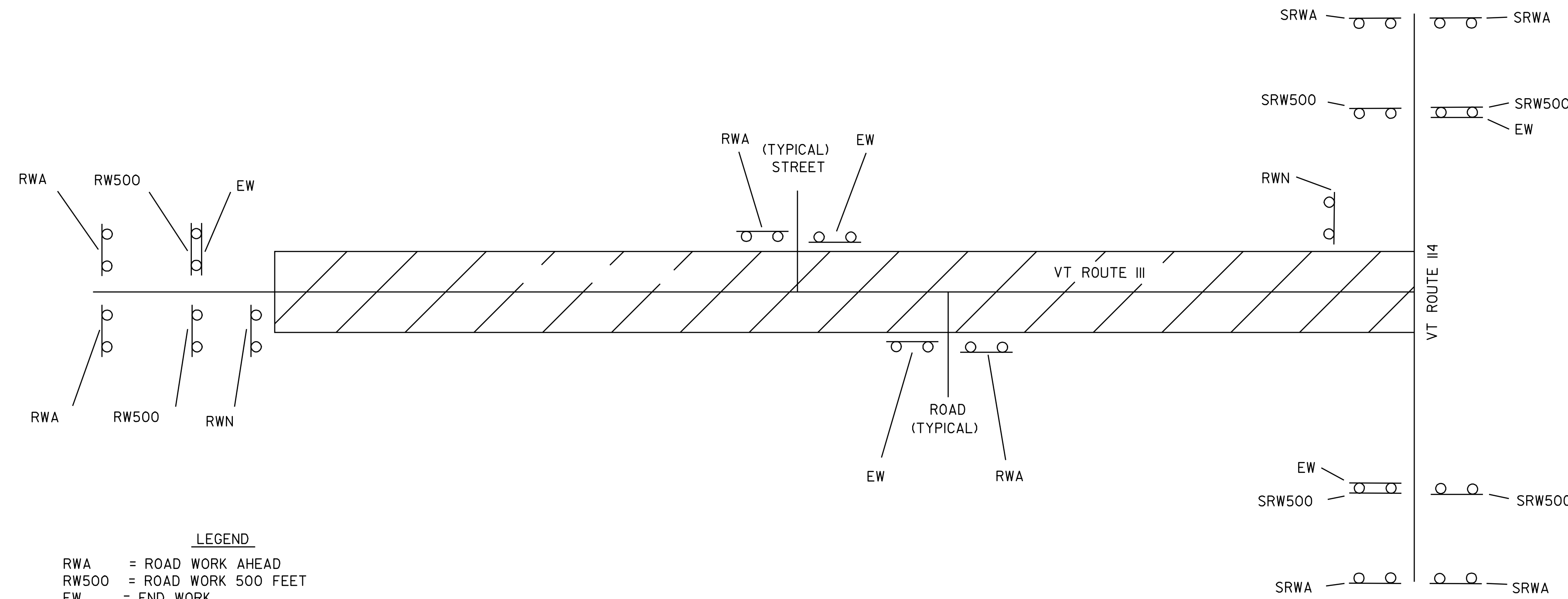
PLATE WASHER DETAIL



SPECIAL WASHER DETAIL

- NOTES:
1. BOLTS, NUTS & WASHERS SHALL BE GALVANIZED AND CONFORM TO SECTION 714.05, EXCEPT THAT POST BOLTS SHALL CONFORM TO STANDARD G-I REQUIREMENTS AND BE CORROSION RESISTANT.
 2. POSTS, PLATE AND SPECIAL WASHER SHALL BE AASHTO M270M/M270 GRADE 345W STEEL

<p>BRIDGE DETAIL SHEET #2</p>	DESIGNED BY	BCE/PJM	DATE	8-05
	DRAWN BY	C.E.A., INC.	DATE	8-05
	DESIGN FILE NO.	/pave/04c036/p04c036.dgn		
	PRF FILE	p04c036br2.1	DATE PLOTTED	11-JUN-2007 14:52
	PROJ. NAME	MORGAN - BRIGHTON		
PROJ. NO.	STP 2404(1)S			
SHEET	25	OF	26	SHEETS



- LEGEND**
- RWA = ROAD WORK AHEAD
 - RW500 = ROAD WORK 500 FEET
 - EW = END WORK
 - RWN = ROAD WORK NEXT 5 MILES
 - SRWA = SIDE ROAD WORK AHEAD
 - SRW500 = SIDE ROAD WORK 500 FEET

CONSTRUCTION APPROACH SIGNING

SEE STANDARD E-100 AND E-103 FOR SIGN PLACEMENT

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

LIST OF CONSTRUCTION SIGNS

TOWN HIGHWAY	RWA	RW500	EW	RWN	SRWA	SRW500
MORGAN						
BEGIN PROJECT	2	2	1	1		
ECHO LAKE ROAD - TH*24	1		1			
BEAR MOUNTAIN ROAD - TH*28	1		1			
WHITEHILL LOOP ROAD - TH*28	1		1			
OLD McCABE ROAD - TH*26	1		1			
END PROJECT			2	1	4	4
TOTALS	6	2	7	2	4	4

- NOTES:**
- THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH STANDARD E-103. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.
 - THREE (3) PORTABLE CHANGEABLE MESSAGE SIGNS WILL BE PROVIDED FOR USE ALONG THIS PROJECT. THE PLACEMENT OF THESE MESSAGE SIGNS AS WELL AS THEIR MESSAGE WILL BE APPROVED BY THE RESIDENT ENGINEER. THIS QUANTITY IS PAID FOR AS ITEM, 641.15, PORTABLE CHANGEABLE MESSAGE SIGN.

DATUM
 VERTICAL N/A
 HORIZONTAL N/A

CONSTRUCTION APPROACH SIGNING

DESIGNED BY BCE/PJM DATE 8-05
 DRAWN BY C.E.A., INC. DATE 8-05
 DESIGN FILE NO. /pave/04c036/p04c036.dgn
 PRF FILE p04c036cas.1 DATE PLOTTED 11-JUN-2007 14:5
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 PROJ. NO. **STP 2404(1)S**
 SHEET **26** OF **26** SHEETS