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SB-R6-82	BRIDGE RAILING - HEAVY DUTY STEEL BEAM	01-06-95

STATE OF VERMONT AGENCY OF TRANSPORTATION

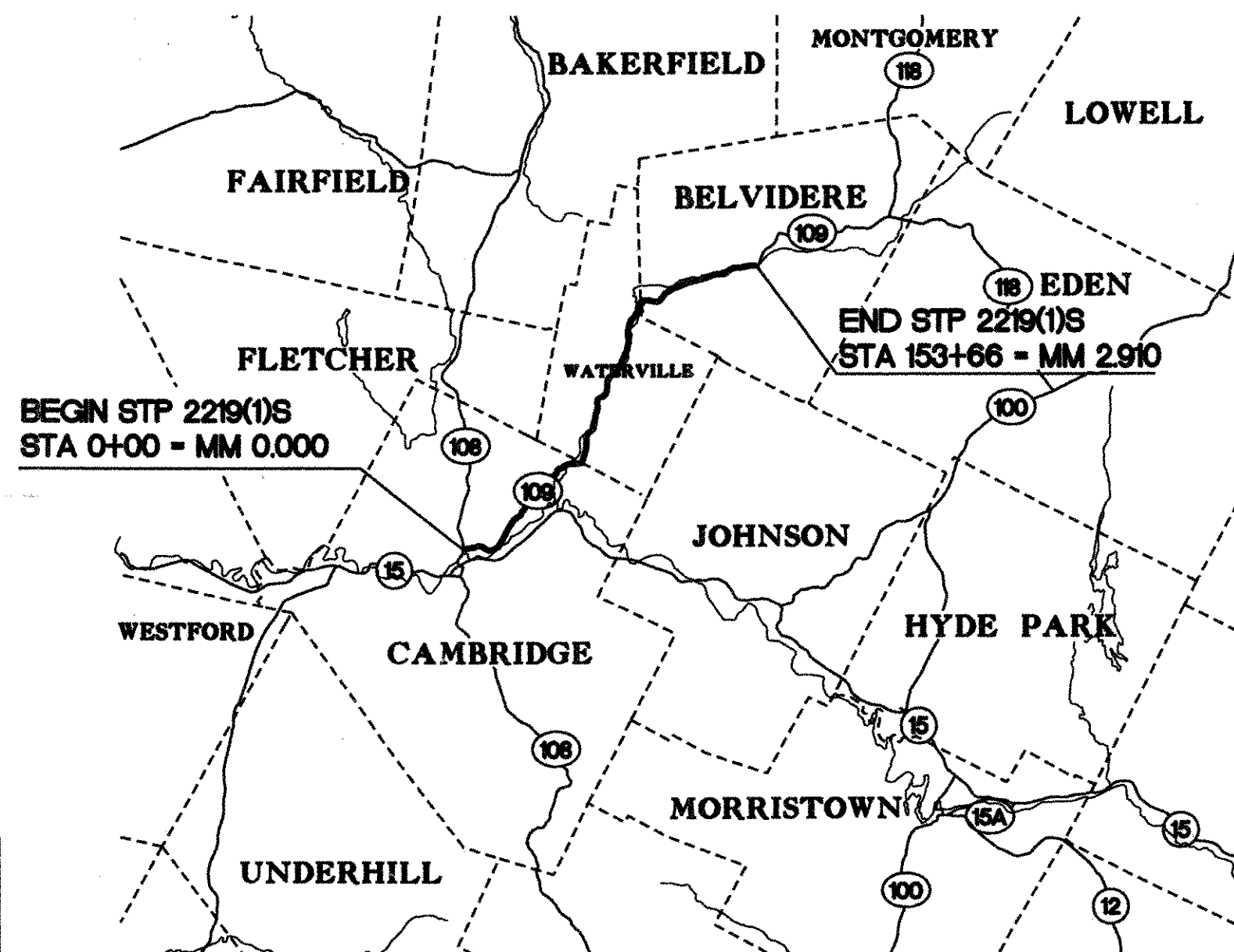


PROPOSED IMPROVEMENTS TOWNS OF CAMBRIDGE, WATERVILLE, AND BELVIDERE COUNTY OF LAMOILLE VT ROUTE 109

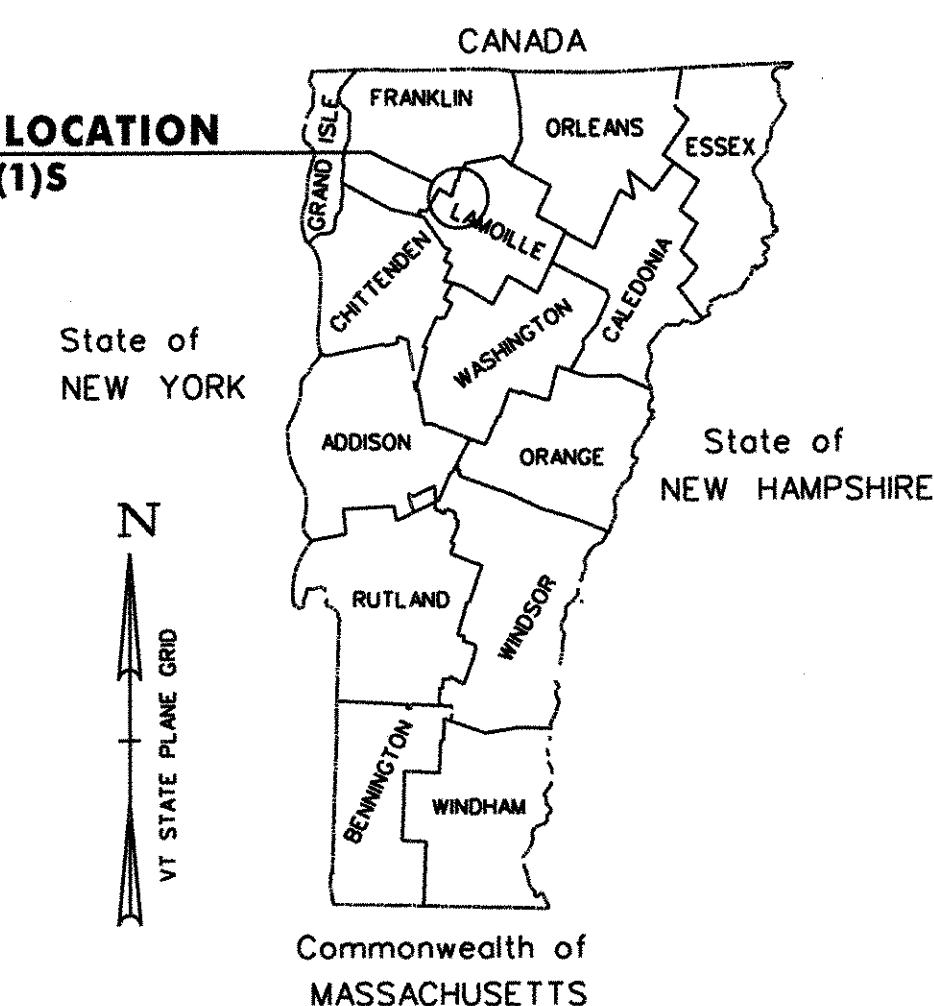
BEGINNING AT THE INTERSECTION OF VT ROUTES 108 & 109 IN THE TOWN OF CAMBRIDGE AT STA 0+00 (MM 0.000) AND EXTENDING NORTHERLY ALONG VT ROUTE 109 THROUGH THE TOWN OF WATERVILLE AND INTO THE TOWN OF BELVIDERE FOR A DISTANCE OF APPROXIMATELY 57,831 FEET (10.952 MILES) TO THE END OF THE PROJECT AT STATION 153+66 (M.M. 2.910) IN THE TOWN OF BELVIDERE.

STATION TO STATION DATA	LENGTH	
	(FEET)	(MILES)
TOWN OF CAMBRIDGE STA 0+00 TO STA 202+14 (MM 0.000 TO MM 3.828)	20,214	3.828
TOWN OF WATERVILLE STA 0+00 TO STA 222+51 (MM 0.000 TO MM 4.214)	22,251	4.214
TOWN OF BELVIDERE STA 0+00 TO STA 153+66 (MM 0.000 TO MM 2.910)	15,366	2.910
PROJECT TOTALS	57,831	10.952

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES RESURFACING OF THE EXISTING HIGHWAY WITH COLD PLANING & OVERLAY SECTIONS (LEVELING AND WEARING COURSE), NEW PAVEMENT MARKINGS, GUARD RAIL INSTALLATION, DRAINAGE IMPROVEMENTS AND INCIDENTAL ITEMS.



**PROJECT LOCATION
STP 2219(1)S**



TRAFFIC DATA

	ADT		DHV		ESAL'S (2006-2016)	ESAL'S (2006-2026)
	2006	2016	2006	2016		
BEGINNING OF PROJECT TO WATERVILLE MM 0.190	1,400	1,600	200	230	268,000	622,000
WATERVILLE MM 0.190 TO BELVIDERE MM 0.180	1,000	1,100	160	170	177,000	423,000
BELVIDERE MM 0.180 TO BELVIDERE MM 2.910 END OF PROJECT	440	500	110	120	69,000	166,000

RECORD PLANS

CONTRACTOR: PIKE INDUSTRIES, INC. - BERLIN, VT

RESIDENT ENGINEER: JEFF COTA

CONSTRUCTION BEGAN: MARCH 15, 2006

CONSTRUCTION COMPLETE: AUGUST 1, 2006

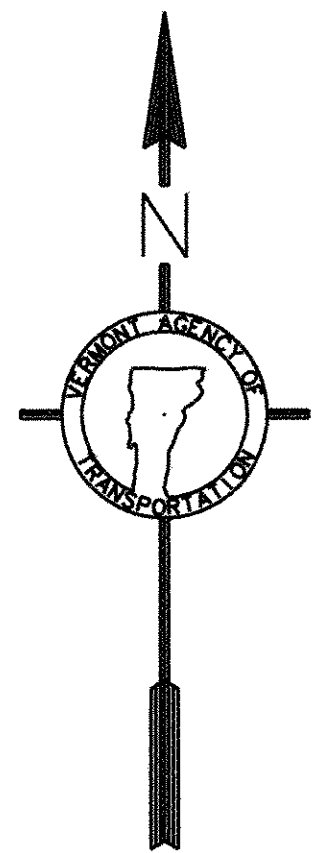
RECORD PLANS BY: JEFF COTA & C. PIERCE

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

BY: [Signature] RESIDENT ENGINEER

DATE: 6/19/07

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.



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 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.

CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	- - - -
LIMITS OF ACCESS	○—○—○—○
POINT OF ACCESS	○—○—○—○ X
FENCE LINE	—x—x—x—x—
STONE WALL	=====
TRAVELED WAY	=====
GUARD RAIL	—o—o—o—o—
RAILROAD	—+—+—+—+—
SURVEY LINE	—+—+—+—+—
CULVERT	—+—+—+—+—
POWER POLE	⊕
TELEPHONE POLE	⊕
TREES	⊙ * ⊙
CONTROL OF ACCESS	—+—+—+—+—
PROPERTY LINE	—+—+—+—+—
R.O.W. TAKING LINE	—+—+—+—+—
SLOPE RIGHTS	—o—o—o—o—
TOP OF CUT	—△—△—△—△—
TOE OF SLOPE	—○—○—○—○—

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

BY: [Signature]

CIVIL ENGINEERING ASSOCIATES, INC.
P.O. BOX 488 SHELBURNE, VT 05482
802-985-2323 FAX: 802-985-2271 web: www.cao-vt.com

DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED: <u>[Signature]</u>	DATE: <u>1-23-06</u>
PROJECT MANAGER: WOOLAVER	
PROJECT NAME: CAMBRIDGE - BELVIDERE	
PROJECT NUMBER: STP 2219(1)S	
SHEET 1 OF 37 SHEETS	

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STATE OF VERMONT AGENCY OF TRANSPORTATION

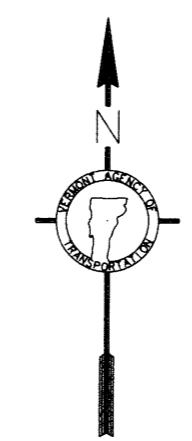
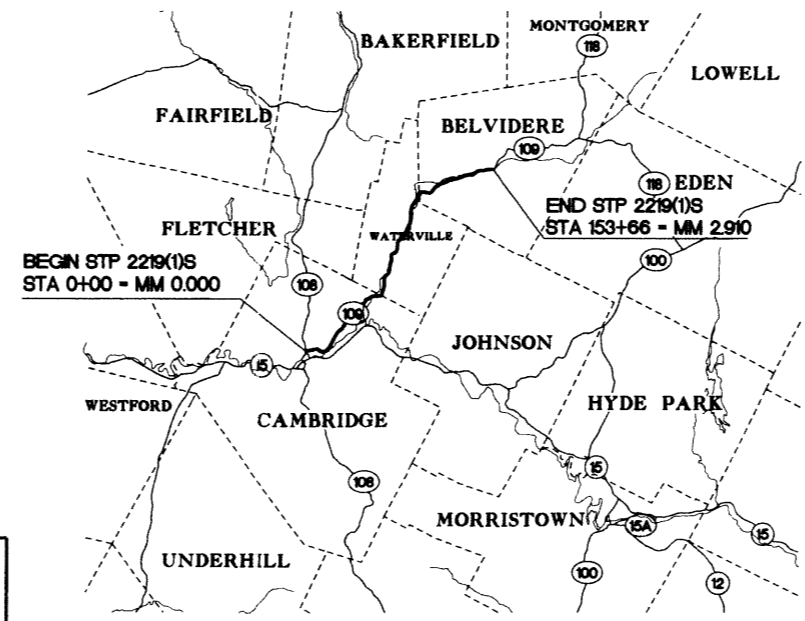


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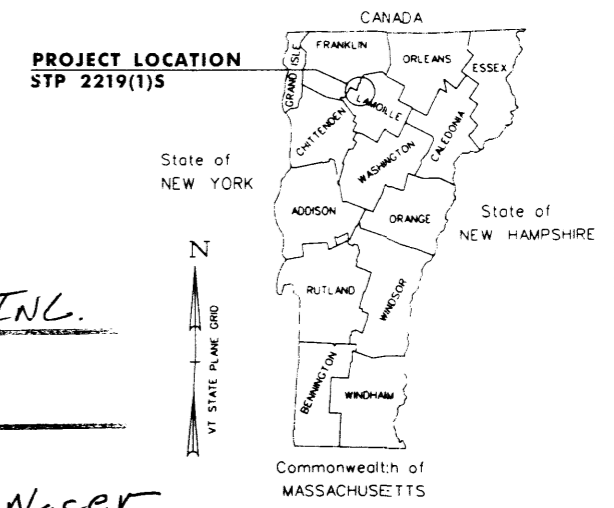
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PIKE IND. INC.
Contractor
[Signature]
Signature
Construction Manager
Title

TRAFFIC DATA

	ADT		DHW		ESAL'S (2006-2016)	ESAL'S (2006-2026)
	2006	2016	2006	2016		
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[Signature]
Director of Transportation
Date: 4/6/06

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CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	- - - -
LIMITS OF ACCESS	○-○-○-○-○
POINT OF ACCESS	X
FENCE LINE	x-x-x-x-x
STONE WALL	o-o-o-o-o
TRAVELED WAY	=====
GUARD RAIL	o-o-o-o-o
RAILROAD	o-o-o-o-o
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]

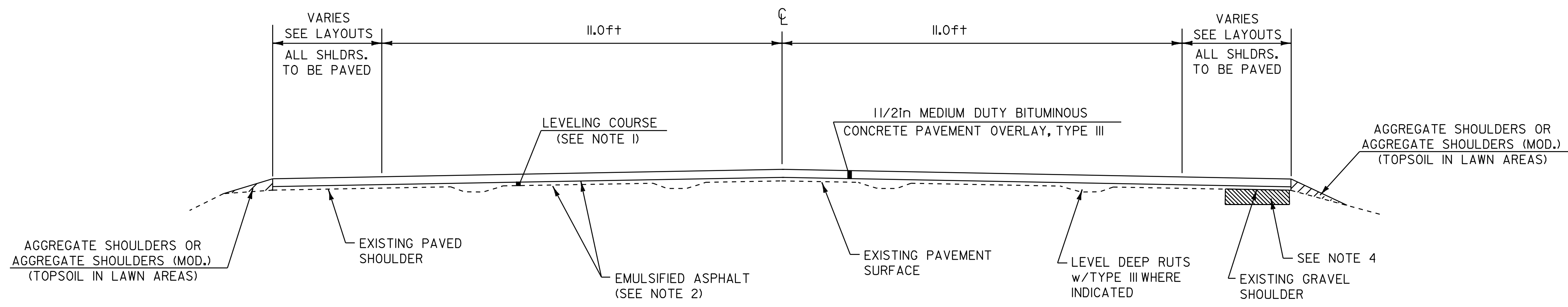
CIVIL ENGINEERING ASSOCIATES, INC.
P.O. BOX 486
SHELBORNE, VT 05482
802-985-2323 FAX: 802-985-2271 www.ceo-vt.com

DIRECTOR OF PROGRAM DEVELOPMENT	APPROVED	DATE
PROJECT MANAGER: WOOLAYER		
PROJECT NAME: CAMBRIDGE - BELVIDERE		
PROJECT NUMBER: STP 2219(1)S		
SHEET 1 OF 37 SHEETS		

NOTES

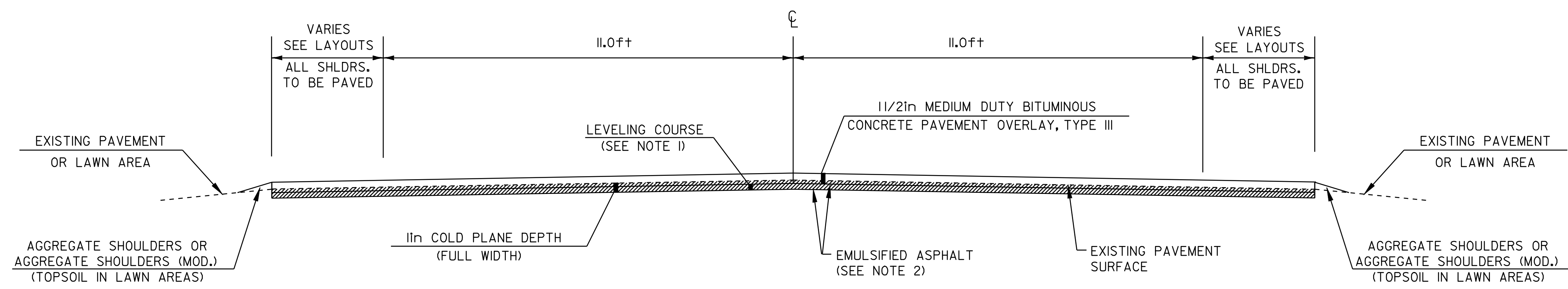
- THE PAVEMENT WEARING COURSE SHALL BE TYPE III.
THE LEVELING COURSE SHALL BE TYPE IV UNLESS OTHERWISE SHOWN IN THE PLANS OR DIRECTED BY THE RESIDENT ENGINEER. LEVELING HAS BEEN INCLUDED TO RESHAPE THE ROADWAY PRIOR TO PAVING THE TOP COURSE ALONG THE OVERLAY AND COLD PLANE TYPICAL SECTIONS. AN ESTIMATED THICKNESS OF 1/2in. OF ITEM 406.27 HAS BEEN INCLUDED TO COVER THIS PROVISION.

ALL ASPHALT CEMENT USED IN THE BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 58-34.
- EMULSIFIED ASPHALT SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES, BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED SURFACES AT THE RATE OF 0.015 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
- BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- 1/4in (TOTAL THICKNESS EXCLUDING LEVELING).
- 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 ENGINEER PRIOR TO ANY WORK BEING DONE. MATERIAL REMOVED SHALL BE REPLACED WITH SUBBASE OF CRUSHED GRAVEL (FINE GRADED) OR AGGREGATE SHOULDERS (MOD.).
- 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.
- ITEMS 604.40 & 604.412 ARE ESTIMATED QUANTITIES 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.
- PIPE INLET AND OUTLET AREAS, AND DITCH CLEANING THROUGH THE PROJECT, SHALL BE PERFORMED AT LOCATIONS AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE EQUIPMENT RENTAL ITEM(S).
- ALL DRIVES SHALL RECEIVE A PAVED APRON AS DIRECTED BY THE RESIDENT ENGINEER. ANY AND ALL REQUIRED EXCAVATION IN DRIVE AREAS SHALL BE AS DIRECTED AND WILL BE PAID FOR UNDER THE APPLICABLE RENTAL ITEM(S). IF REQUIRED, A NEW DRIVEWAY 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 406.27. ESTIMATED QUANTITIES OF THE ABOVE ITEMS HAVE BEEN INCLUDED TO PAY FOR THIS WORK.
- ESTIMATED QUANTITIES OF ITEM 608.25, EXCAVATOR RENTAL AND 608.37, TRUCK RENTAL HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARD RAIL END SECTIONS WITH EXCAVATED DITCHING MATERIAL. 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 SHOULDER (MOD.) 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 AND SIDEROAD APPROACHES AND AROUND DRAINAGE/UTILITY STRUCTURES), SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ITEM 406.27, MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT (PG 58-34).
- ALL EDGES OF PAVEMENT AND TREATED TIMBER CURB SHALL BE BACKED UP FULL HEIGHT WITH COLD PLANE GRINDINGS AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.12, AGGREGATE SHOULDERS (MOD.). ADDITIONAL MATERIAL REQUIRED AFTER THE COLD PLANE GRINDINGS ARE USED WILL BE PAID FOR UNDER ITEM 402.12, AGGREGATE SHOULDERS.
- COMPACTION, GRADING, AND CLEAN UP OF ITEM 301.28, SUBBASE OF CRUSHED GRAVEL, ITEM 402.12, AGGREGATE SHOULDER MATERIAL, AND ITEM 651.35, TOPSOIL, IS TO BE INCLUDED IN THE CONTRACT PRICE OF EACH ITEM.
- YIELDING MARKER POSTS ARE TO BE USED TO REPLACE NON-YIELD MARKER POSTS AT PIPE INLETS AND OUTLETS ONLY.



OVERLAY TYPICAL SECTION

CAMBRIDGE
~~STA 0+00 TO 202+14~~
~~3+50~~
WATERVILLE
~~STA 0+00 TO 18+50~~ ~~17+75~~
~~34+00~~ ~~TO 222+51~~
~~34+50~~
BELVIDERE
~~STA 0+00 TO 133+00~~
~~131+00~~



COLD PLANED TYPICAL SECTION

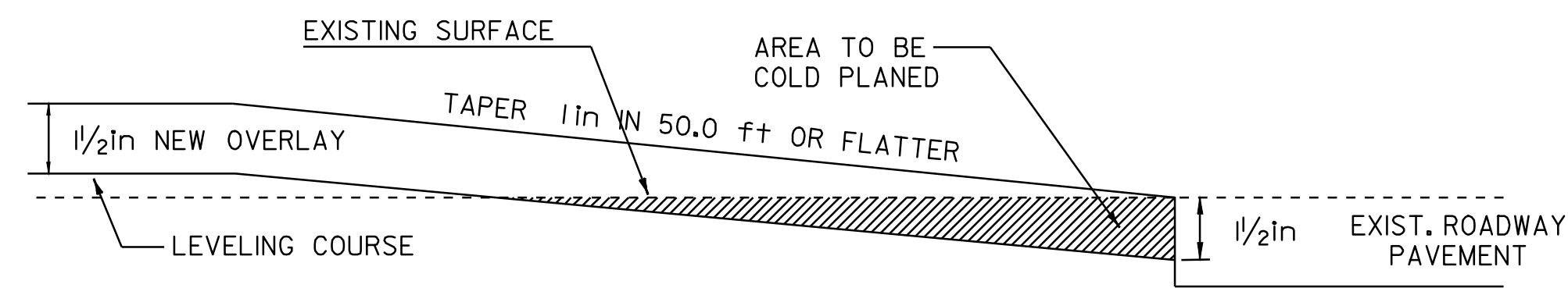
WATERVILLE
~~STA 18+50 TO 34+00~~
~~17+75~~ ~~34+50~~
BELVIDERE
~~STA 133+00 TO 153+66~~
~~131+00~~
CAMBRIDGE
~~STA. 0+00 TO 3+50~~

PROJECT PAVING LIMITS

TOWN & ROUTE	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING Tons	NOTES
CAMBRIDGE - VT ROUTE 109	3+50 0+00	202+14	2.0ft-11.0ft-11.0ft-2.0ft	1 1/2 in	2,430	LEVEL DEEP RUTS w/TYPE III, LEVEL & PAVE W/1 1/2 in TYPE III
WATERVILLE - VT ROUTE 109	0+00	17+75 18+50 34+00	2.0ft-11.0ft-11.0ft-2.0ft	1 1/2 in	150	LEVEL & PAVE W/1 1/2 in TYPE III
	17+75 18+50 34+00	222+51	2.0ft-11.0ft-11.0ft-2.0ft	1 1/2 in	130	COLD PLANE 1 in, LEVEL & PAVE W/1 1/2 in TYPE III
	34+00	222+51	VARIES-11.0ft-11.0ft-VARIES	1 1/2 in	1,530	LEVEL & PAVE W/1 1/2 in TYPE III
BELVIDERE - VT ROUTE 109	0+00	131+00 133+00	3.0ft-11.0ft-11.0ft-3.0ft	1 1/2 in	1,140	LEVEL & PAVE W/1 1/2 in TYPE III
	133+00	153+66	3.0ft-11.0ft-11.0ft-3.0ft	1 1/2 in	190	COLD PLANE 1 in, LEVEL & PAVE W/1 1/2 in TYPE III
	131+00					

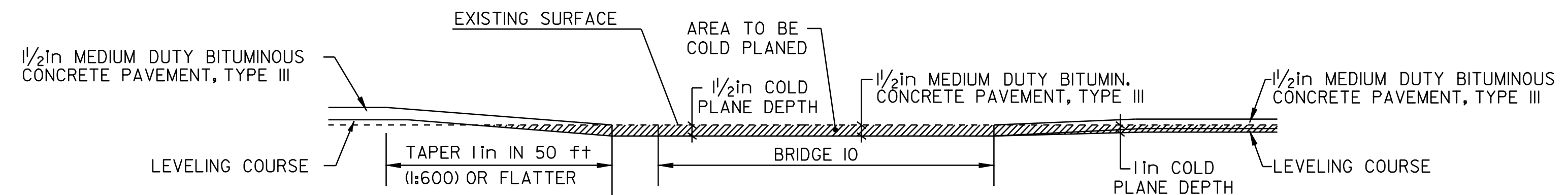
PROJECT TYPICAL SHEET #1

DESIGNED BY BCE/PJM DATE 8-05
 DRAWN BY C.E.A., INC. DATE 8-05
 DESIGN FILE NO. p99c190.dgn
 PRF FILE p99c190+typ1.i DATE 12-DEC-2008
 PROJ. NAME **CAMBRIDGE - BELVIDERE**
 PROJ. NO. **STP 2219(1)S**
 SHEET **2** OF **37** SHEETS



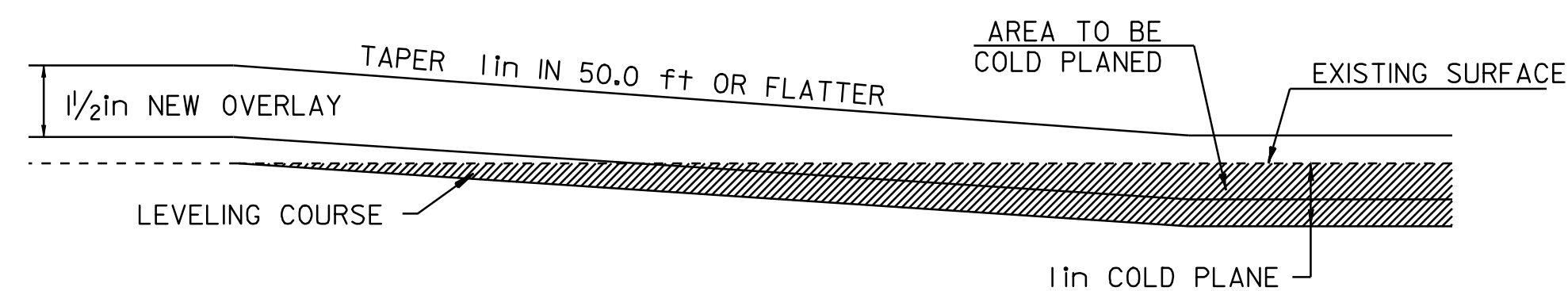
-APPROACH AREA DETAIL-

CAMBRIDGE
STA ~~0+21~~ TO ~~0+96~~ (BEGIN PROJECT)
 0+00 4+00



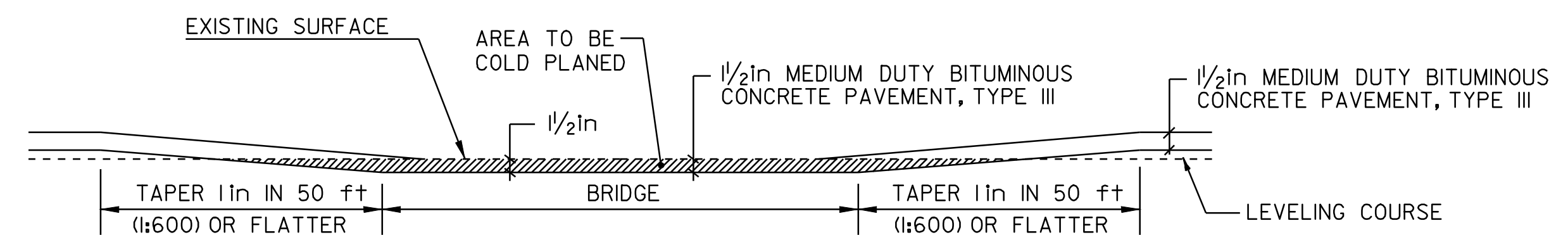
- TRANSITION AREA DETAIL -

BELVIDERE
STA ~~132+63~~ (BRIDGE #10 TO END OF PROJECT)
 130+50



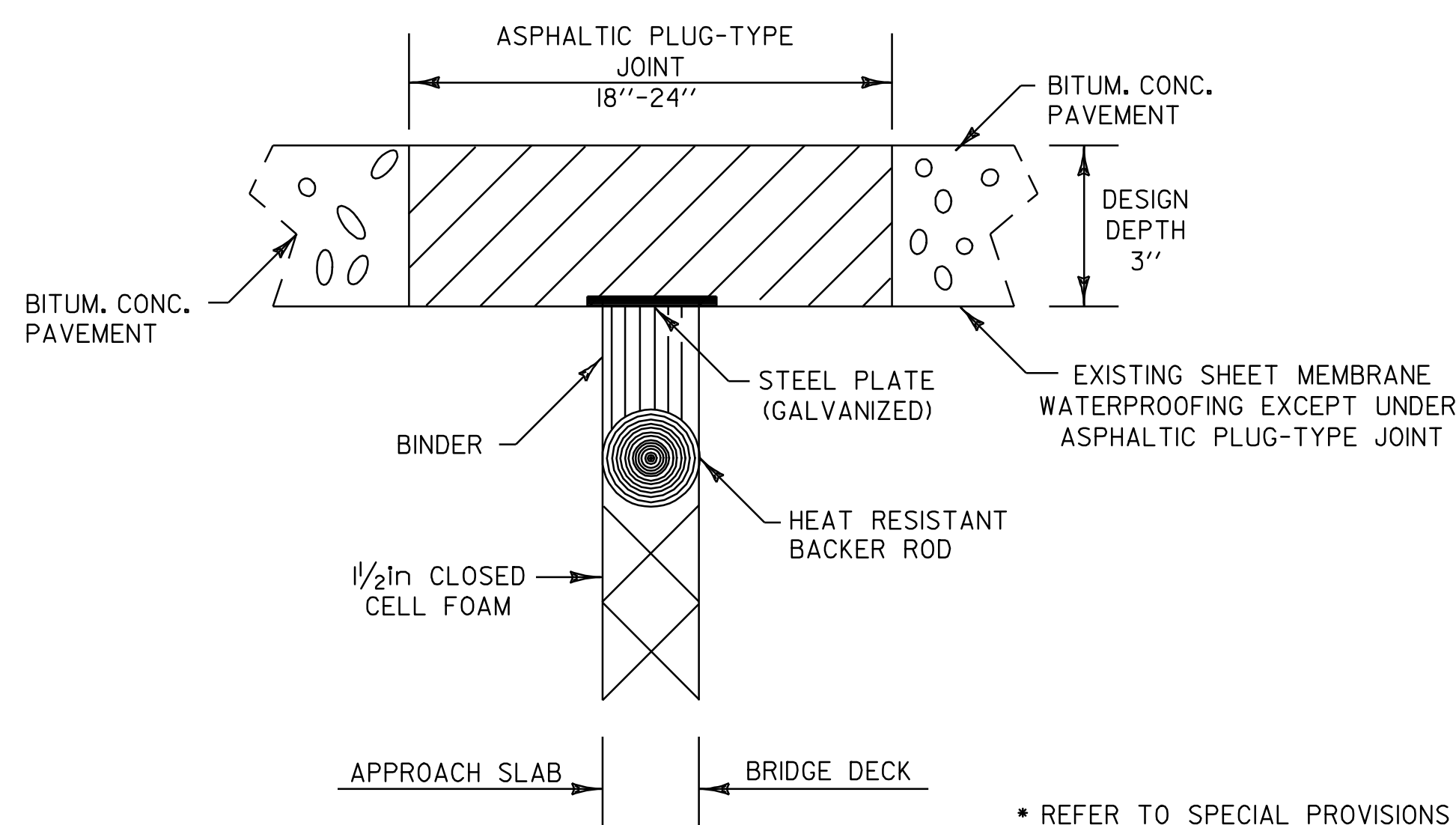
-TRANSITION AREA DETAIL-

WATERVILLE
STA ~~18+00~~ TO ~~18+50~~ (END OVERLAY/BEGIN COLD PLANE)
STA ~~34+00~~ TO ~~34+50~~ (END COLD PLANE/BEGIN OVERLAY)
 17+25 17+75
 34+50 35+00



-COLD PLANING DETAIL @ BRIDGES-

CAMBRIDGE
BRIDGE #2 - STA 143+77
BRIDGE #3 - STA 187+90
WATERVILLE
BRIDGE #4 - STA 47+98
BELVIDERE
BRIDGE #7 - STA 8+07



LOCATION

CAMBRIDGE

BRIDGE #3 (20ft) - STA 187+48
 BRIDGE #3 (20ft) - STA 188+22

WATERVILLE

BRIDGE #4 (30ft) - STA 47+38
 BRIDGE #4 (~~30ft~~) - STA 48+76 31ft

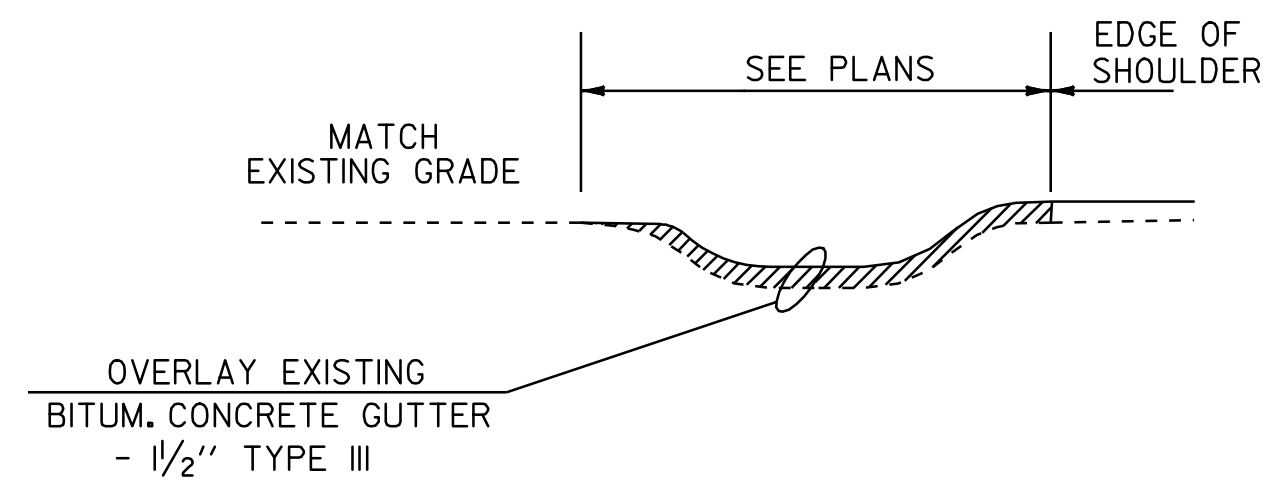
BELVIDERE

BRIDGE #7 (~~29ft~~) - STA 7+56 28ft
 BRIDGE #7 (~~29ft~~) - STA 8+41 28ft
 BRIDGE #10 (20ft) - STA 132+40
 BRIDGE #10 (20ft) - STA 132+83

* REFER TO SPECIAL PROVISIONS FOR BASIS OF PAYMENT

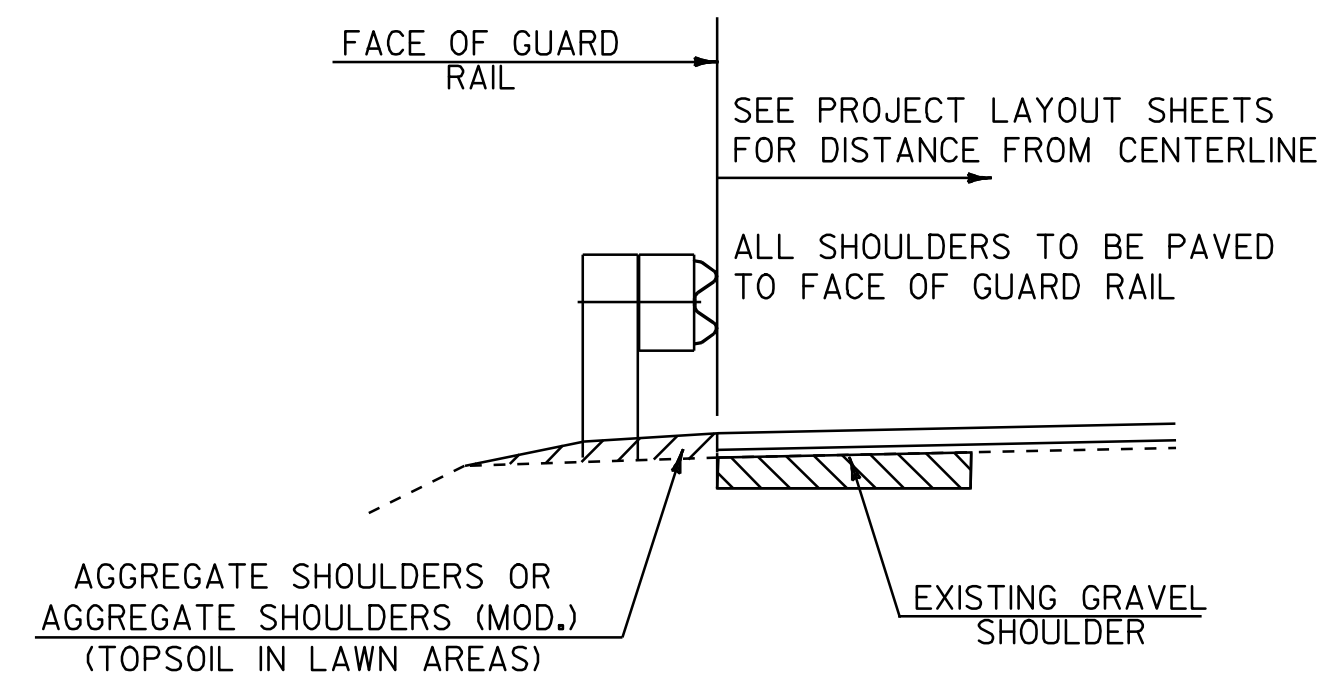
- ASPHALTIC PLUG TYPE JOINT DETAIL -

PROJECT TYPICAL SHEET #2	DESIGNED BY	BCE/PJM	DATE	8-05
	DRAWN BY	C.E.A., INC.	DATE	8-05
	DESIGN FILE NO.	p99cl90.dgn		
	PRF FILE	p99cl90+yp2.i	DATE PLOTTED	12-DEC-2008 03
	PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S			
SHEET	3	OF	37	SHEETS

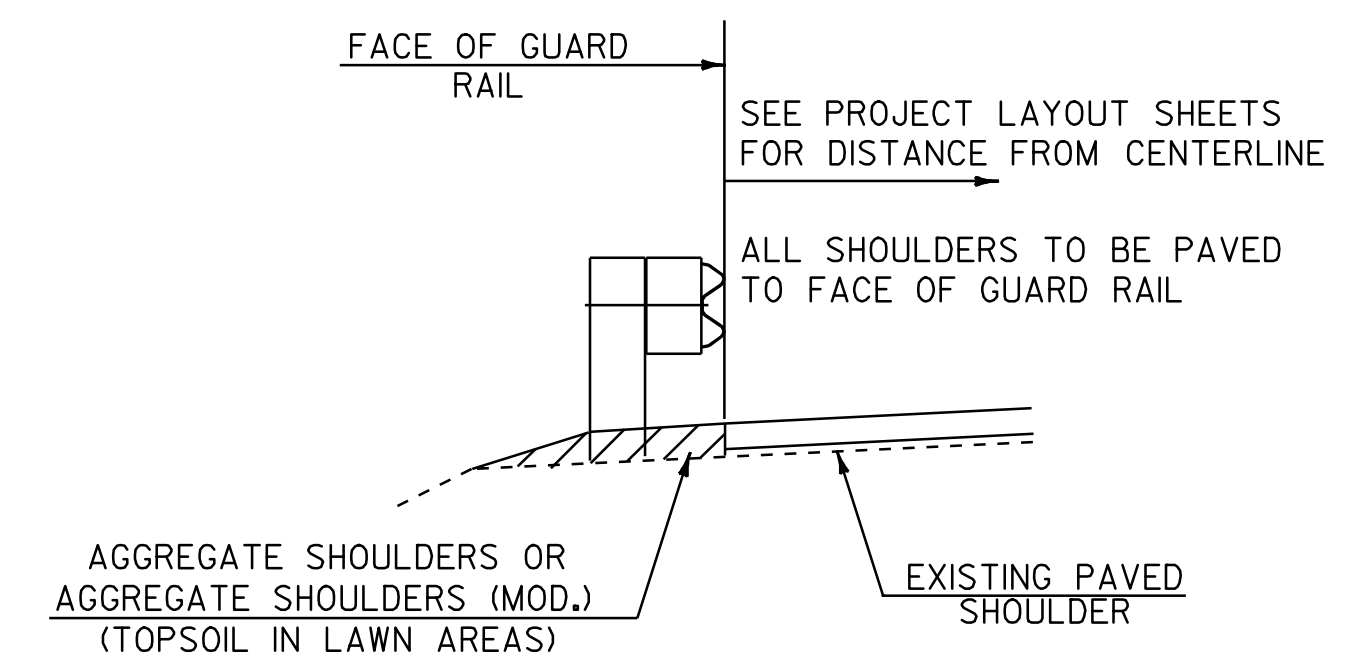


**BITUMINOUS CONCRETE
GUTTER DETAIL**

WATERVILLE
 STA ~~19+90 TO 21+90 RT~~ ~~19+50 - 21+75 RT~~ 172+00 - 173+43 LT
 STA ~~25+90 TO 31+60 RT~~ 25+75 - 28+00 RT
~~STA 31+90 TO 34+00 LT~~
 STA 32+00 TO 33+20 RT
~~STA 39+20 TO 40+75 RT~~
 STA 34+46 RT
 BELVIDERE
 STA 112+05 TO 112+50 LT
 STA 142+46 LT



- TYPICAL SECTION AT GUARD RAIL -
 (@ EXISTING GRAVEL SHOULDER)



- TYPICAL SECTION AT GUARD RAIL -
 (@ EXISTING PAVED SHOULDER)

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.

**PROJECT
TYPICAL
SHEET #3**

DESIGNED BY BCE/PJM DATE 8-05
 DRAWN BY C.E.A., INC. DATE 8-05
 DESIGN FILE NO. p99cl90.dgn
 PRF FILE p99cl90+yp3.t DATE 12-DEC-2008 PLOTTED
 PROJ. NAME **CAMBRIDGE - BELVIDERE**
 PROJ. NO. **STP 2219(1)S**
 SHEET **4** OF **37** SHEETS

ITEM DETAIL SUMMARY SHEET #1

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		613.10	605.10	616.35	619.17	621.20		621.21	621.505	621.60	621.75	621.76	621.77	621.80		676.10					
			THIN TRIM FOR SIGNS	COM. EXCAV.	EARTH BORROW	WASTE DITCHING MATERIAL	TRENCH EXCAV. OF EARTH	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.	LENGTH /THCL	STONE FILL TYPE I	6" UNDER-DRAIN	TIMBER CURB	YIELD. MARKER POSTS	STEEL POST G.R.	(MOD.) 8 ft STEEL POST G.R.	HEAVY DUTY S.B. G.R.	MANUF. TERMINAL SECTION (FLARED)	ANCHOR FOR G.R.	REMOVE AND RESET G.R.	REPLACE POST ASSEMBLY	REPLACE BEAM UNIT	REMOVE & DISP. OF G.R.		DELIN. w/STEEL POSTS					
			EA	CY	CY	CY	CY	T	T	T	T	EA	EA	EA	in	FT	CY	FT	FT	EA	FT	FT	FT	EA	EA	FT	EA	EA	FT	EA						
CAMBRIDGE																																				
0+00	202+14	LT&RT			-50-0		-1-0																													
			ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.																																	
4+23	8+35	RT				50				10																										
			REPLACE EXISTING S.B. GUARD RAIL. STONE FILL FOR EROSION @ STA 5+60.																																	
49+13	54+13	RT				50				10																										
			REPLACE EXISTING S.B. GUARD RAIL.																																	
142+78	143+40	LT				25				5																										
			ATTACH TO NEW BRIDGE RAIL @ STA. 143+40 LT.																																	
142+78	143+40	RT				25				5																										
			ATTACH TO NEW BRIDGE RAIL @ STA. 143+40 RT.																																	
143+65	144+27	LT				25				5																										
			ATTACH TO NEW BRIDGE RAIL @ STA. 143+65 LT.																																	
143+65	144+27	RT				25				5																										
			ATTACH TO NEW BRIDGE RAIL @ STA. 143+65 RT.																																	
186+75	187+44	RT				25				5																										
			ATTACH TO NEW BRIDGE RAIL @ STA. 187+44 RT.																																	
186+94	187+44	LT				25				5																										
			ATTACH TO NEW BRIDGE RAIL @ STA. 187+44 LT.																																	
188+25	189+01	RT				25				5																										
			ATTACH TO NEW BRIDGE RAIL @ STA. 188+25 RT.																																	
188+25	188+93	LT				25				5																										
			ATTACH TO NEW BRIDGE RAIL @ STA. 188+25 LT.																																	
WATERVILLE																																				
0+00	222+51	LT&RT			-50-0				1,910	390																										
			ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.																																	
15+80	18+92	LT				50				10																										
			REPLACE EXISTING S.B. GUARD RAIL.																																	
19+90	21+90	RT									10.195																									
			BITUMINOUS CONCRETE GUTTER, SEE DETAIL, SHEET 4.																																	
25+90	31+60	RT																																		
			BITUMINOUS CONCRETE GUTTER, SEE DETAIL, SHEET 4.																																	
31+90		LT&RT												2																						
			REHAB D. I. 'S LT & RT.																																	
31+90	34+00	LT																																		
			BITUMINOUS CONCRETE GUTTER, SEE DETAIL, SHEET 4.																																	
32+00	33+20	RT																																		
			BITUMINOUS CONCRETE GUTTER, SEE DETAIL, SHEET 4.																																	
32+60		LT												1																						
			REHAB D. I. LT.																																	
34+40	40+26	LT				50				10																										
			REPLACE EXISTING S.B. GUARD RAIL. REDUCED POST SPACING AT POWER POLES AT STATIONS 35+15, 36+22, AND 37+42.																																	
34+46		RT																																		
			REHAB D. I. RT., BITUMINOUS CONCRETE GUTTER, SEE DETAIL SHEET 4.																																	
39+20	40+75	RT																																		
			BITUMINOUS CONCRETE GUTTER, SEE DETAIL, SHEET 4.																																	
41+19		LT																																		
			REHAB D. I. LT.																																	
41+92		LT																																		
			REHAB D. I. LT.																																	
42+87		LT																																		
			REHAB D. I. LT.																																	
43+01		RT																																		
			REHAB D. I. RT.																																	
44+68		RT																																		
			REHAB D. I. RT.																																	
47+98		RT																																		
			2 NEW DELINEATORS @ BRIDGE #4																																	
73+88	76+62	RT				50				10																										
			REPLACE EXISTING S.B. GUARD RAIL.																																	
78+65		RT																																		
			REHAB D.I. RT																																	
91+02		LT																																		
			REHAB D. I. LT.																																	
85+00		RT																																		
			STONE FILL FOR EROSION/SHOULDER STABILIZATION @ CULVERT OUTLET.																																	
89+66	93+27	RT				50				10																										
			REPLACE EXISTING S.B. GUARD RAIL.																																	
111+48	120+05	RT				50				10																										
			REPLACE EXISTING S.B. GUARD RAIL.																																	
125+75		LT																																		
			REHAB D.I. LT																																	
131+50		RT																																		
			RELOCATE MAILBOX, MULTIPLE SUPPORT.																																	
131+65	134+14	RT				50				10																										
			REPLACE EXISTING S.B. GUARD RAIL.																																	
149+26	151+75	RT				50				10																										
			REPLACE EXISTING S.B. GUARD RAIL.																																	
149+71	151+91	LT				50				10																										
			REPLACE EXISTING S.B. GUARD RAIL.																																	
159+11	165+22	RT				50				10																										
			REPLACE EXISTING S.B. GUARD RAIL.																																	

SHEET SUB-TOTALS					100-0	750*	± 0		4,170	540	46-	± 0	± 0	± 0																						
			*SHOWN FOR INFORMATION ONLY																																	
			25.62																																	
			13																																	
			-75-0																																	
			-4 0																																	
			1,797.5																																	
			2,570.0																																	
			277.6																																	
			21																																	
			9																																	
			-8 0																																	
			-4 0																																	
			5,200.1																																	
			30																																	
			5537.6																																	
			32																																	

ITEM DETAIL SUMMARY SHEET #1

DESIGNED BY BCE/PJM DATE 8-05

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

DESIGN FILE NO. p99cl90.dgn

PRF FILE p99cl901dsl.i DATE PLOTTED 12-DEC-2008 09

PROJ. NAME: **CAMBRIDGE - BELVIDERE**

PROJ. NO.: **STP 2219(1)S**

SHEET **7** OF **37** SHEETS

ITEM DETAIL SUMMARY SHEET #2

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		613.10	605.10	616.35	619.17	621.20		621.21	621.505	621.60	621.75	621.76	621.77	621.80	676.10																						
			THIN TRIM FOR SIGNS	COM. EXCAV.	EARTH BORROW	WASTE DITCHING MATERIAL	TRENCH EXCAV. OF EARTH	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.	LENGTH /TH/CL	STONE FILL TYPE I	6" UNDER-DRAIN	TIMBER CURB	YIELD. MARKER POSTS	STEEL POST G.R.	(MOD.) 8 FT STEEL POST G.R.	HEAVY DUTY S.B. G.R.	MANUF. TERMINAL SECTION (FLARED)	ANCHOR FOR G.R.	REMOVE AND RESET G.R.	REPLACE POST ASSEMBLY	REPLACE BEAM UNIT	REMOVE & DISP. OF G.R.	DELIN. w/STEEL POSTS																						
164+92		LT	EA	CY	CY	CY	CY	T	T	T	T	EA	EA	EA	1	in	FT	CY	FT	FT	EA	FT	FT	EA	EA	FT	EA	EA	FT	EA	REHAB D. I. LT.																					
172+41	178+80	RT				50				10											0	437.5	462.5							537.5	2	REPLACE EXISTING S.B. GUARD RAIL.																				
172+00	173+43	LT									8																				BITUMINOUS CONCRETE GUTTER, SEE DETAIL SHEET 4																					
173+43		LT											1																		REHAB D. I. LT.																					
211+70	220+41	RT				50				10												825		2					900	2	REPLACE EXISTING S.B. GUARD RAIL.																					
0+00	151+93	LT&RT			-50.0				1,080	400												-2.0									ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.																					
2+02	4+41	LT				50				10																			237.5	2	REPLACE EXISTING S.B. GUARD RAIL.																					
6+94	7+56	LT				25				5																			37.5	1	ATTACH TO NEW BRIDGE RAIL @ STA. 7+56 LT.																					
6+94	7+56	RT				25				5																			62.5	1	ATTACH TO NEW BRIDGE RAIL @ STA. 7+56 RT.																					
8+43	8+68	LT				25				5																			37.5	1	ATTACH TO NEW BRIDGE RAIL @ STA. 8+43 LT																					
8+43	8+80	RT				25				5																			25	1	ATTACH TO NEW BRIDGE RAIL @ STA. 8+43 RT.																					
10+57	17+65	RT																	650			650		1	1				712.5	2	REPLACE EXISTING S.B. GUARD RAIL, AND TREATED TIMBER CURB.																					
10+70		RT											1																		REHAB D. I. RT.																					
18+50		LT											1																			REHAB D. I. LT.																				
34+42		RT											1																			REHAB D. I. RT.																				
68+83	73+69	LT				50				10												412.5		2					487.5	2	REPLACE EXISTING S.B. GUARD RAIL.																					
71+72	73+38	RT				50				10												112.5		2					162.5	2	REPLACE EXISTING S.B. GUARD RAIL.																					
75+95	79+94	RT				50				10												325		2					400	2	REPLACE EXISTING S.B. GUARD RAIL.																					
76+44	80+43	LT				50				10												325		2					400	2	REPLACE EXISTING S.B. GUARD RAIL.																					
85+31	90+43	LT				50				10												437.5		2					512.5	2	REPLACE EXISTING S.B. GUARD RAIL.																					
99+50		RT											1																			REHAB D. I. RT.																				
101+91	106+65	LT				50				10												400		2					475	2	REPLACE EXISTING S.B. GUARD RAIL.																					
112+05	112+50	LT									2.615																					BITUMINOUS CONCRETE GUTTER, SEE DETAIL, SHEET 4.																				
112+09		LT									-2			1																		REHAB D. I. LT.																				
117+30	120+83	LT				50				10																				350	2	REPLACE EXISTING S.B. GUARD RAIL.																				
119+74	120+97	RT				50				10																				112.5	2	REPLACE EXISTING S.B. GUARD RAIL.																				
121+97	125+33	LT				50				10																				337.5	2	REPLACE EXISTING S.B. GUARD RAIL.																				
131+90	132+40	LT				25				5												25		25	1				37.5	1	ATTACH TO NEW BRIDGE RAIL @ STA. 7+56 LT.																					
131+90	132+40	RT				25				5												25		25	1				37.5	1	ATTACH TO NEW BRIDGE RAIL @ STA. 7+56 RT.																					
132+90	133+40	LT				25				5												-25.0		25	1				37.5	1	ATTACH TO NEW BRIDGE RAIL @ STA. 8+43 LT																					
132+90	133+52	RT				25				5												37.5		25	1				37.5	1	ATTACH TO NEW BRIDGE RAIL @ STA. 8+43 RT.																					
142+46		LT									2.615			1																		REHAB D. I. LT. BITUMINOUS CONCRETE GUTTER, SEE DETAIL SHEET 4																				
144+53		LT											1																			REHAB D. I. LT.																				
153+00		RT											1																			REHAB D.I. RT																				
SHEET 8 SUB-TOTALS					-50.0	800	--	1,080	560	2	--	--	-9.10						650	-2.0	4,325.0	762.5	240.0	-23.22	-11.12	--	--	6,037.5	34																							
SHEET 7 SUB-TOTALS					100.0	750	1.0	4,170	540	46.25	62.10	1.0	1.0	10.13					75.0	-4.0	1,797.5	2,570.0	277.6	21	9	-8.0	-4.0	5,200.1	-30.32			5537.6																				
SUB-TOTALS					150.0	1,550	1.0	5,250	1,100	48.38	85.10	1.0	1.0	19.23					650	-6.0	6,122.5	3,332.5	517.6	44.43	20.21	-8.0	-4.0	11,237.6	64.66			11475.1																				
ROUNDING					--	50	--	--	--	2	--	--	--	--					-5	--	-27.5	-17.5	-2.4	--	--	--	--	12.4	--																							
PROJECT TOTALS					150.0	1,600*	1.0	5,250	1,100	50	85.10	1.0	1.0	19.23				75.0	-6.0	6,150.0	3,350.0	520	44.43	20.21	-8.0	-4.0	11,250.0	64			11475.1																					
												*SHOWN FOR INFORMATION ONLY																																								
																				SHEET 8	3921	112.5																														
																				SHEET 7	1800.5	2916																														
																				TOTAL	5721.5	4028.5																														

ITEM DETAIL SUMMARY SHEET #2

DESIGNED BY BCE/PJM DATE 8-05
 DRAWN BY C.E.A., INC. DATE 8-05
 DESIGN FILE NO. p99ci90.dgn
 PRF FILE p99ci901ds2.1 DATE PLOTTED 12-DEC-2008 09
 PROJ. NAME: **CAMBRIDGE - BELVIDERE**
 PROJ. NO.: **STP 2219(1)S**
 SHEET **8** OF **37** SHEETS

LOCATION				FEET OF DITCHING				MISC. ITEMS			REMARKS	LOCATION				FEET OF DITCHING				MISC. ITEMS			REMARKS								
SITE	STATION	STATION	POS.	PERCENT GRADE				654.10	613.10	649.31		SITE	STATION	STATION	POS.	PERCENT GRADE				654.10	613.10	649.31									
				0-1	1-2.5	2.5-10	>10									0-1	1-2.5	2.5-10	>10												
				EROS. MATT.	STONE FILL TYP. I	GEOT. UNDER STONE FILL	EROS. MATT.	STONE FILL TYP. I	GEOT. UNDER STONE FILL																						
VT ROUTE 109, CAMBRIDGE								SY	CY	SY	VT ROUTE 109, WATERVILLE (CONT'D)								SY	CY	SY										
DISTRICT *X 8											VT ROUTE 109, BELVIDERE																				
1	4+18 -4+15	6+32 -6+25	LT		214 -210			51.5 -31	178.3 -93		41	74+00	76+50	LT	250				28 -37	156 -111		92+66 99+31	93+19 99+80	RT RT		53 49			13.7 13.6	41.2 40.8	
2	15+72 +15+50	18+62 +18+50	RT		100 -250	218 -50		77.8 +110	56.5 -7	181.7 -22	42	79+27 -79+50	81+14 -82+00	LT		172 -250			0 -325	371 -800		0 -145	82 -118	309 -356							
3	15+72 +15+90	17+26 +17+05	LT		0 +115	154 -154		0 -50	42.8 -42.8	128.3 -128.3	43	94+15 -94+00	97+86 +105+25	LT		0 -100			0 +100	174 -174		0 -45	39 -39	145 -145							
4	23+08 -23+20	27+02 +27+00	LT		107 +100	289 -280		83.2 -45	80.3 -41	240.8 +124	44	109+08 +109+25	110+82 +110+25	LT		0 +100			0 +100	174 -174		0 -45	39 -39	145 -145							
5	27+78 -27+00	28+79 +28+80	LT		101 +100			25.25 +15	84.2 -44		45	119+43 +119+50	125+22 +123+50	LT		579 -400			579 -400			86 -59	482 -178								
6	30+45 -31+75	33+60 +34+10	LT		0 +165	254 -70		0 -75	66.7 +10	206.9 -31	46	125+90 +126+00	126+82 +127+00	LT		92 -100			92 -100			14 -15	77 -44								
7	36+35 -36+25	38+51 +37+25	LT		216 +100			168 -45			47	128+50 +129+75	130+23 +131+50	LT	0 -175	173			134.6			388 -148	1247 -444								
8	39+22 -39+25	40+68 +40+45	LT		146 -120			35.1 -18	121.7 -53		48	135+29 +135+00	150+25 +145+00	LT		1496 -1,000			1496 -1,000			388 -148	1247 -444								
9	41+47 -42+50	45+92 +45+70	LT		445 -320			123.6 -47	370.8 -142		49	211+04 -210+40	216+18 +216+50	LT		514 -610			514 -610			133 -90	428 -271								
10	53+08 -53+00	65+63 +59+50	LT	0 +150	263 -200	993 -300		204.6 -90	257	828	50	21+00 II +24+63	21+16	RT		5			5			0.7 -5	2.2 -10								
11	60+00	63+00	LT		300			44	133		51	24+55	24+83	RT		20			20			3 -5	8.9 -10								
12	73+90 -73+75	74+55 +74+50	LT		65 -75			17 -11	54 -33		52	62+12 -62+00	68+96 +68+60	RT		684 -285	0 -375		760 -125			0 -55	0 -167								
13	73+75	75+75	RT		100	100		45	15	44	53	113+65 +114+00	117+71 +117+50	RT	0 -360	406			315.8												
14	77+52 -77+50	82+09 +82+10	LT		457 -460			106 -60	381 -204		PROJECT SUBTOTALS				1,830	4,145	9,400		1,835	1,354	4,060										
15	84+58 -84+45	85+14 +85+00	LT		56 -55			10 -8	47 -24		ROUNDING				20	5	--		15	21	40										
16	85+55 -86+00	90+00	LT		445 -400			103 -59	371 -178		PROJECT TOTALS				1,850	4,150	9,400		1,850	1,375	4,100										
17	90+24 -92+85	95+55 +96+50	LT		333 -365			90 -54	277 +162																						
18	99+75 -99+60	101+25 +100+40	LT		0 -80	150		0 -35	42	125	VT ROUTE 109 WATERVILLE (CONT'D)																				
19	104+59 +104+50	107+00 +106+75	LT		241 +225			187.4 +100			20	5+19 78+72	5+82 79+26	RT LT		63 54			49 36												
20	108+91 +108+50	112+07 +111+95	LT		0 +345	256		0 +150	66	213	21	112+44 +112+25	115+81 +115+50	LT		0 +150	179 -175		0 -66	39 -26	150 -78										
21	112+44 +112+25	115+81 +115+50	LT		0 +150	179 -175		0 -66	39 -26	150 -78	22	116+22 +116+00	122+69 +122+35	LT		0 +100	533 -535		0 -45	120 -79	444 -238										
22	116+00	122+35	LT		100	535		45	79	238	23	130+07 +130+25	132+42 +132+15	LT		235 +190			52 -28	196 -84											
24	130+44 +130+25	131+60 +131+35	RT		116 +110			26 -16	97 -49		24	130+44 +130+25	131+60 +131+35	RT		116 +110			116 +110			26 -16	97 -49								
25	124+35 +134+80	125+57 +138+15	LT	335				23	102		25	124+35 +134+80	125+57 +138+15	LT	335				23	102											
26	138+91 +140+25	142+40 +143+00	LT		349 -275			65 -41	291 +122		26	138+91 +140+25	142+40 +143+00	LT		349 -275			65 -41	291 +122											
27	146+73 +146+50	158+00 +155+50	LT	200	711 -250	197 -450		553 -110	48 -67	165 -200	27	146+73 +146+50	158+00 +155+50	LT	200	711 -250	197 -450		553 -110	48 -67	165 -200										
28	158+44 +158+00	163+24 +163+25	LT		20 -75	264 -450		15.6 -35	59 -67	220 -200	28	158+44 +158+00	163+24 +163+25	LT		20 -75	264 -450		15.6 -35	59 -67	220 -200										
29	168+34 +168+00	173+36 +172+75	LT		69 -475	352		53.7 -210	69	294	29	168+34 +168+00	173+36 +172+75	LT		69 -475	352		53.7 -210	69	294										
30	176+10 +176+50	180+17 +178+00	LT		78 +150	177		60.6 -22	29 -67	147 -67	30	176+10 +176+50	180+17 +178+00	LT		78 +150	177		60.6 -22	29 -67	147 -67										
31	180+50	183+72 +183+50	LT	0 -300	249	94		193.7	21	78	31	180+50	183+72 +183+50	LT	0 -300	249	94		193.7	21	78										
VT ROUTE 109, WATERVILLE											VT ROUTE 109 BELVIDERE (CONT'D)																				
32	3+85 +82	6+00 +4+84	RT		215 +302			-95 +234.9			32	3+85 +82	6+00 +4+84	RT		215 +302			-95 +234.9												
33	4+50 +70	6+25 +2+18	LT		175 +87			75 +37.3			33	4+50 +70	6+25 +2+18	LT		175 +87			75 +37.3												
34	11+00 +10+88	12+25 +12+75	RT		187 +125			145.4 +18	0 -55		34	11+00 +10+88	12+25 +12+75	RT		187 +125			145.4 +18	0 -55											
35	19+20	19+90	RT	70							35	19+20	19+90	RT	70																
36	13+05 -55+00	13+85 -59+00	LT		80 -200	0 -200		62.2 -90	0 -30	0 -89	36	13+05 -55+00	13+85 -59+00	LT		80 -200	0 -200		62.2 -90	0 -30	0 -89										
37	54+40 -66+35	58+85 -67+50	LT	0	274 +115	172		182.7 -50	48	143	37	54+40 -66+35	58+85 -67+50	LT	0	274 +115	172		182.7 -50	48	143										
					(3694)	(7366)		(2768.5)	(1771.75)	(6135.7)																					
	31+82	32+41	RT		59			45.9																							
	34+40	34+63	RT		23			17.9																							
	49+14	49+54	LT		40			26.7																							
	59+56	61+44	LT		188			125.3																							
	61+85	62+36	LT		51			34																							
	73+58	77+61	LT		388																										

TEMPORARY AND DURABLE 4 in YELLOW LINE
STA 0+00 TO 30+00
SOLID LT&RT

TEMPORARY AND DURABLE 4 in WHITE LINE
STA 0+00 TO 30+00
SOLID LT&RT

REMOVING SIGNS
I

TEMPORARY AND DURABLE 24 in STOP BAR
STA 0+44 LT
VT ROUTE 109

TEMPORARY AND DURABLE LETTER OR SYMBOL
STA 0+50 LT
STA 8+20 LT
"STOP"
"STOP AHEAD"

REMOVAL AND DISPOSAL OF GUARD RAIL
STA 4+23 TO 8+35 RT

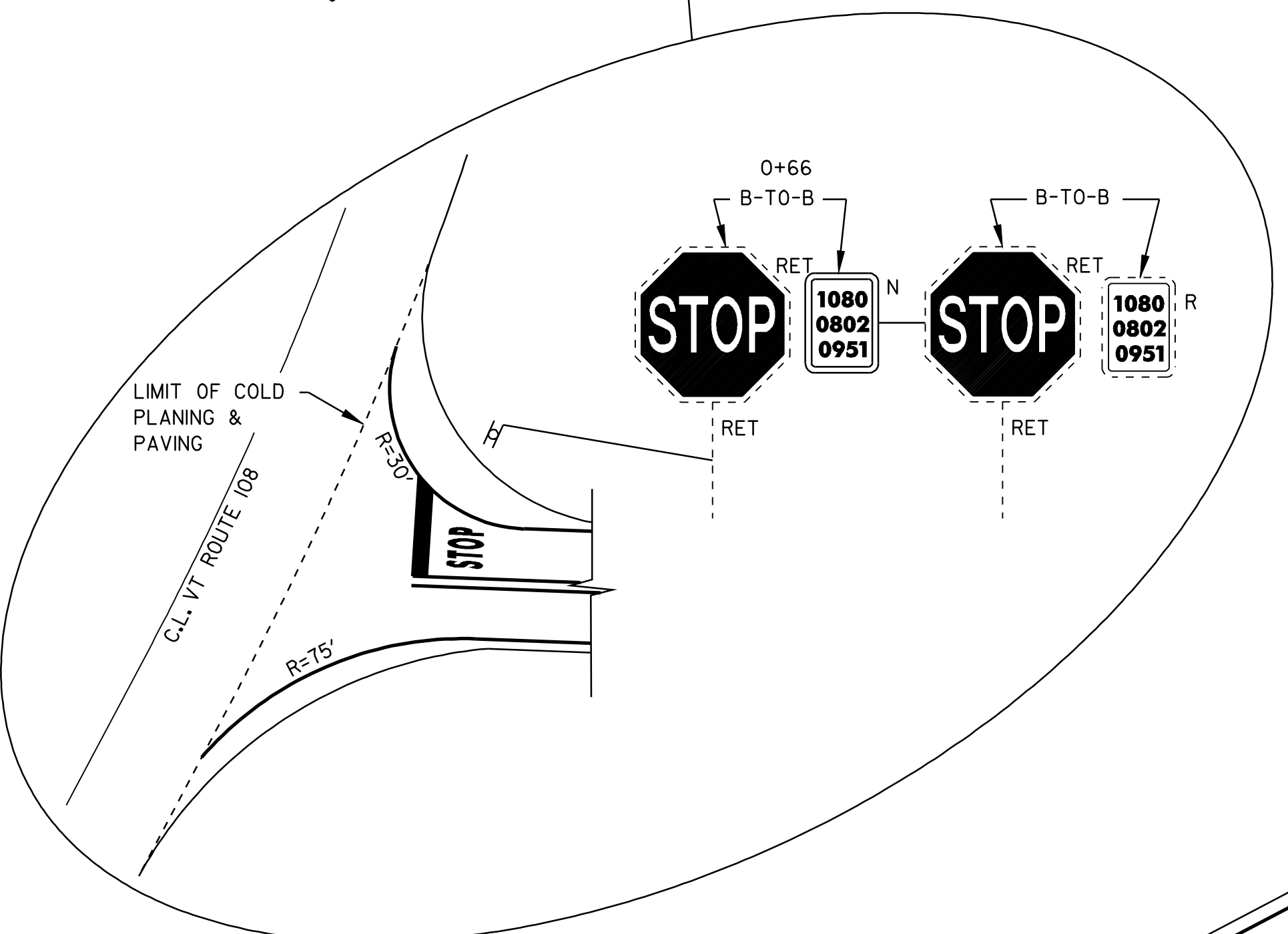
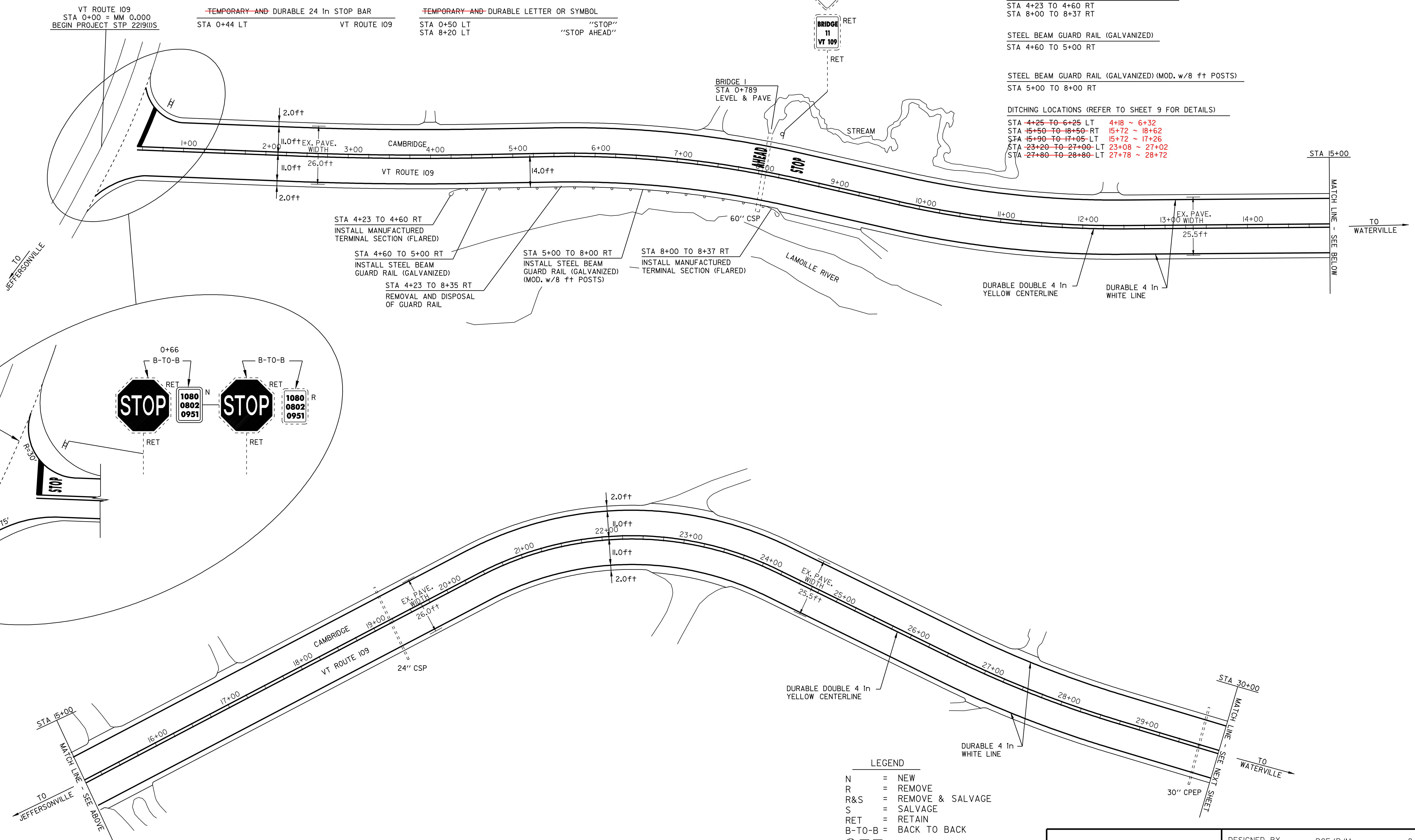
MANUFACTURED TERMINAL SECTION (FLARED)
STA 4+23 TO 4+60 RT
STA 8+00 TO 8+37 RT

STEEL BEAM GUARD RAIL (GALVANIZED)
STA 4+60 TO 5+00 RT

STEEL BEAM GUARD RAIL (GALVANIZED) (MOD. w/8 ft POSTS)
STA 5+00 TO 8+00 RT

DITCHING LOCATIONS (REFER TO SHEET 9 FOR DETAILS)

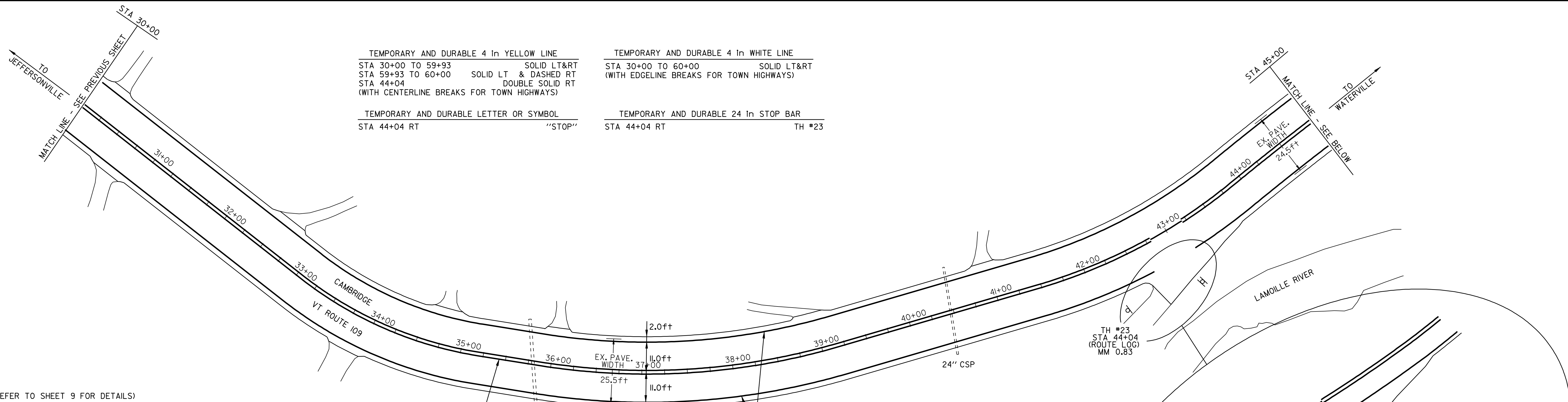
STA 4+25 TO 6+25 LT 4+18 ~ 6+32
STA 15+50 TO 18+50 RT 15+72 ~ 18+62
STA 15+90 TO 17+05 LT 15+72 ~ 17+26
STA 23+20 TO 27+00 LT 23+08 ~ 27+02
STA 27+80 TO 28+80 LT 27+78 ~ 28+72



- 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 #1

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99c190.dgn		
PRF FILE	p99c190101.i	DATE PLOTTED	12-DEC-2008 09
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	10	OF	37 SHEETS



TEMPORARY AND DURABLE 4 in YELLOW LINE		TEMPORARY AND DURABLE 4 in WHITE LINE	
STA 30+00 TO 59+93	SOLID LT&RT	STA 30+00 TO 60+00	SOLID LT&RT
STA 59+93 TO 60+00	SOLID LT & DASHED RT	(WITH EDGE LINE BREAKS FOR TOWN HIGHWAYS)	
STA 44+04	DOUBLE SOLID RT		
(WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)			
TEMPORARY AND DURABLE LETTER OR SYMBOL		TEMPORARY AND DURABLE 24 in STOP BAR	
STA 44+04 RT	"STOP"	STA 44+04 RT	TH #23

DITCHING LOCATIONS (REFER TO SHEET 9 FOR DETAILS)

STA 34+75 TO 34+10 LT	30+45 ~ 33+60
STA 36+25 TO 37+25 LT	36+35 ~ 38+51
STA 39+25 TO 40+45 LT	39+22 ~ 40+68
STA 42+50 TO 45+70 LT	44+47 ~ 45+92
STA 53+00 TO 59+50 LT	53+08 ~ 65+63

REMOVAL AND DISPOSAL OF GUARD RAIL

STA 49+13 TO 54+13 RT

MANUFACTURED TERMINAL SECTION (FLARED)

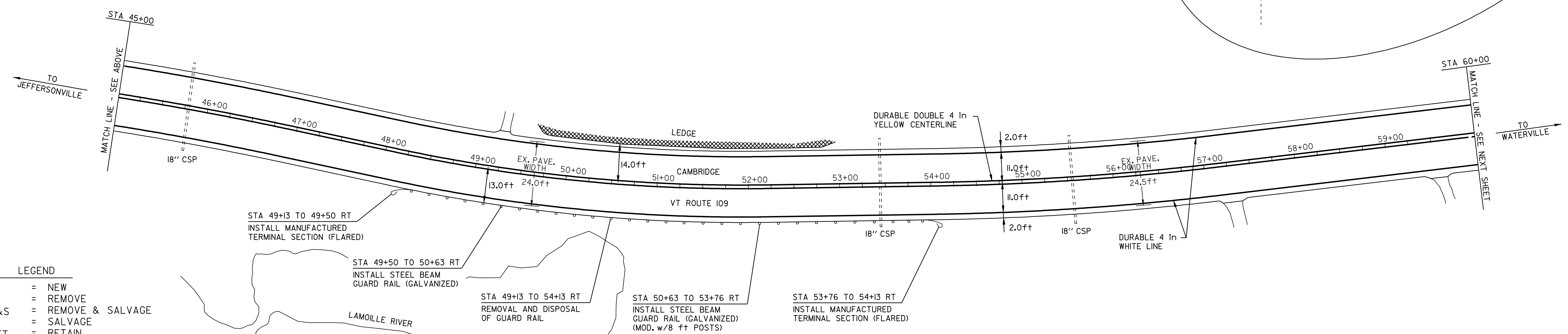
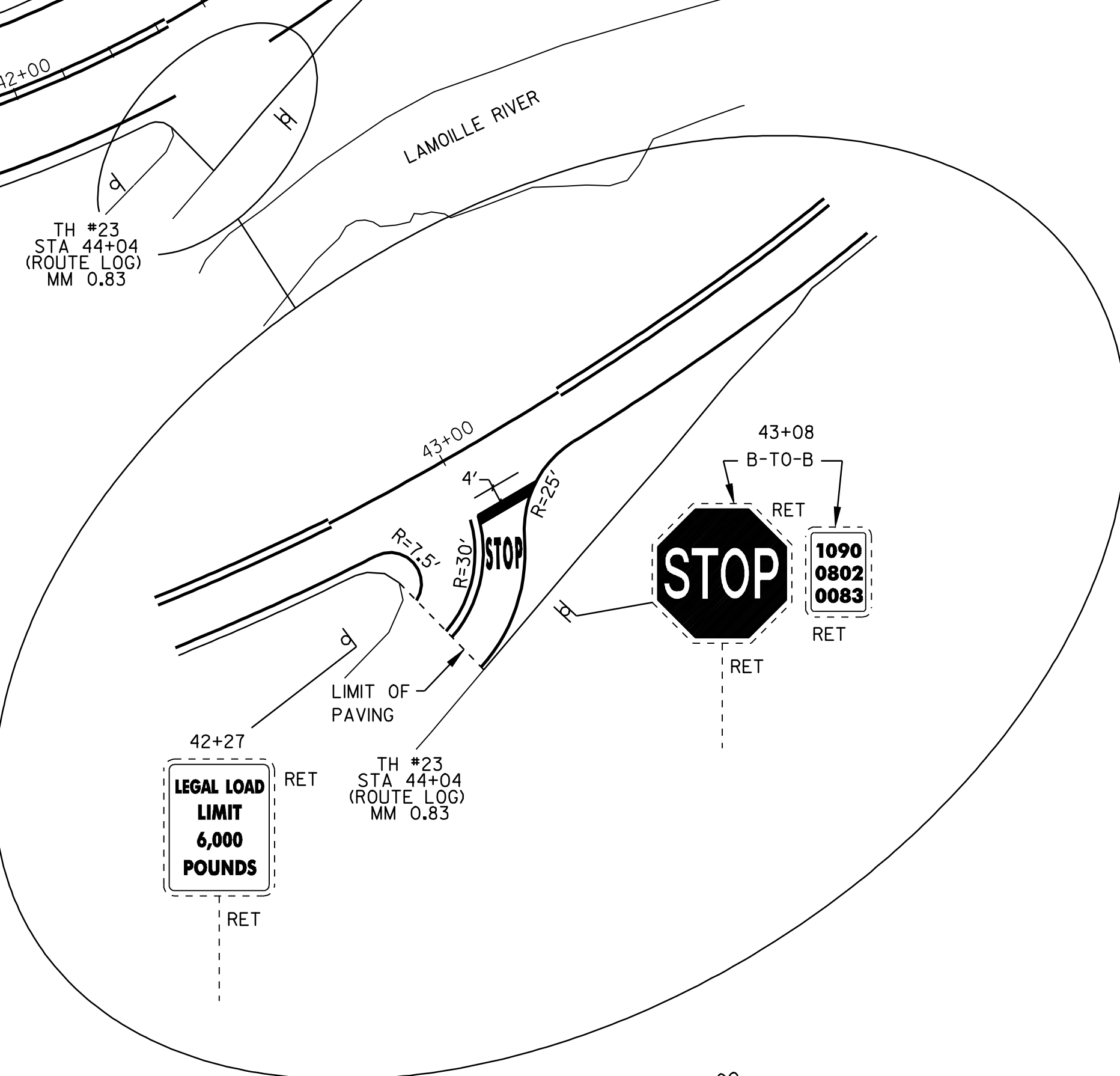
STA 49+13 TO 49+50 RT
STA 53+76 TO 54+13 RT

STEEL BEAM GUARD RAIL (GALVANIZED)

STA 49+50 TO 50+63 RT

STEEL BEAM GUARD RAIL (GALVANIZED) (MOD. w/8 ft POSTS)

STA 50+63 TO 53+76 RT



- STA 49+13 TO 49+50 RT
INSTALL MANUFACTURED TERMINAL SECTION (FLARED)
- STA 49+50 TO 50+63 RT
INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)
- STA 49+13 TO 54+13 RT
REMOVAL AND DISPOSAL OF GUARD RAIL
- STA 50+63 TO 53+76 RT
INSTALL STEEL BEAM GUARD RAIL (GALVANIZED) (MOD. w/8 ft POSTS)
- STA 53+76 TO 54+13 RT
INSTALL MANUFACTURED TERMINAL SECTION (FLARED)

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

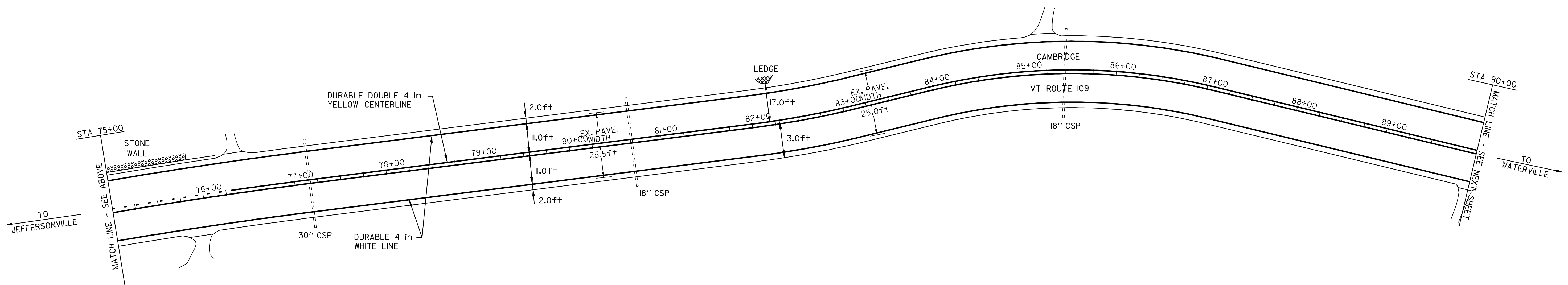
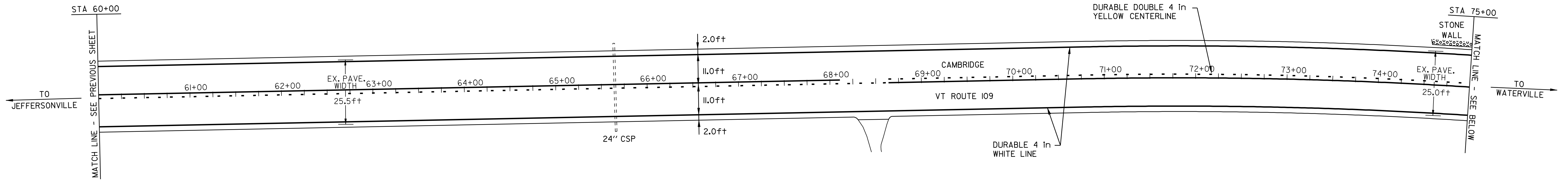
DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99ci90.dgn		
PRF FILE	p99ci90i02.1	DATE PLOTTED	12-DEC-2008 03
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	11	OF	37 SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 60+00 TO 68+00 SOLID LT & DASHED RT
 STA 68+00 TO 68+64 DASHED
 STA 68+64 TO 76+30 DASHED LT & SOLID RT
 STA 76+30 TO 90+00 SOLID LT & RT

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 60+00 TO 90+00 SOLID LT&RT

DITCHING LOCATIONS (REFER TO SHEET 9 FOR DETAILS)

STA ~~60+00 TO 63+00~~ LT 60+00 ~ 65+63
 STA ~~73+75 TO 74+50~~ LT 73+90 ~ 74+55
 STA ~~73+75 TO 75+75~~ RT
 STA ~~77+50 TO 82+10~~ LT 77+52 ~ 82+09
 STA ~~84+45 TO 85+00~~ LT 84+58 ~ 85+14
 STA ~~86+00 TO 90+00~~ LT
 85+55



- 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 #3

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99ci90.dgn		
PRF FILE	p99ci90i03.i	DATE PLOTTED	12-DEC-2008 09
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	12	OF	37 SHEETS

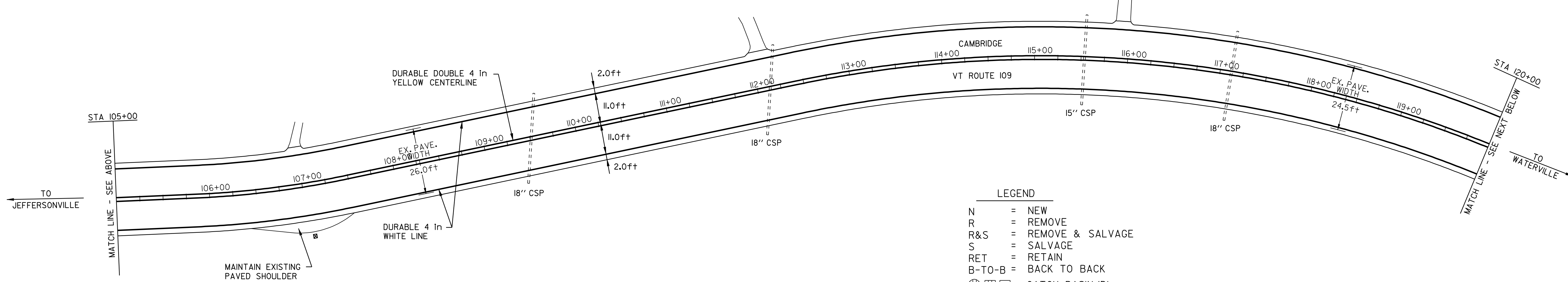
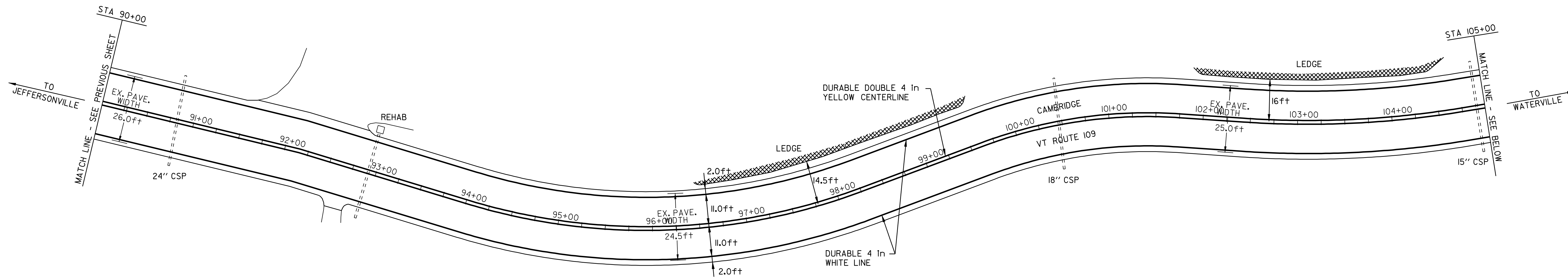
TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 90+00 TO 135+00 SOLID LT & RT

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 90+00 TO 135+00 SOLID LT&RT

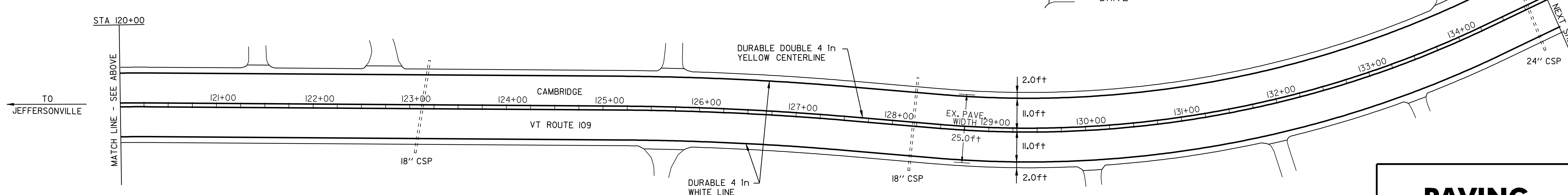
REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S
 STA 92+85 IT

DITCHING LOCATIONS (REFER TO SHEET 9 FOR DETAILS)

STA 92+85 TO 96+50-LT	90+24 ~ 95+55
STA 99+60 TO 100+40-LT	99+75 ~ 101+25
STA 104+50 TO 106+75-LT	104+59 ~ 107+00
STA 108+50 TO 111+95-LT	108+91 ~ 112+07
STA 112+25 TO 115+50-LT	112+44 ~ 115+81
STA 116+00 TO 122+35-LT	116+22 ~ 122+69
STA 130+25 TO 131+35-RT	130+07 ~ 132+42-LT
STA 134+80 TO 135+00-LT	130+44 ~ 131+60-RT
	124+35 ~ 125+57-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
 - I MARKER POST
 - ⊗ UTILITY POLE
 - ⊗/I UTIL. POLE W/UNDERGROUND UTIL.
 - ⊔ DRIVE



PAVING PROJECT LAYOUT SHEET #4

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99cl90.dgn		
PRF FILE	p99cl90i04.i	DATE PLOTTED	12-DEC-2008 09
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	13	OF	37 SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 135+00 TO 165+00 SOLID LT&RT
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 135+00 TO 165+00 SOLID LT&RT
 (WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

REMOVING SIGNS
 3

REMOVAL AND DISPOSAL OF GUARD RAIL

STA 142+78 TO 143+40 RT
 STA 142+78 TO 143+40 LT
 STA 143+65 TO 144+27 RT
 STA 143+65 TO 144+27 LT

MANUFACTURED TERMINAL SECTION (FLARED)

STA 142+78 TO 143+15 RT
 STA 142+78 TO 143+15 LT
 STA 143+90 TO 144+27 RT
 STA 143+90 TO 144+27 LT

H.D. STEEL BEAM GUARD RAIL (GALVANIZED)

STA 143+15 TO 143+40 RT
 STA 143+15 TO 143+40 LT
 STA 143+65 TO 143+90 RT
 STA 143+65 TO 143+90 LT

DITCHING LOCATIONS (REFER TO SHEET 9 FOR DETAILS)

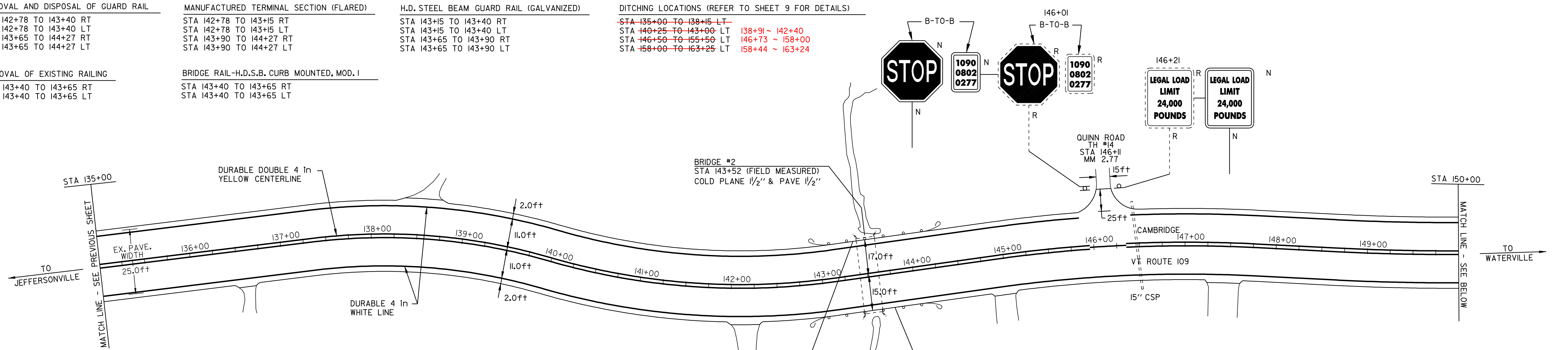
~~STA 135+00 TO 139+15 LT~~
~~STA 140+25 TO 143+00 LT~~ 138+91 ~ 142+40
~~STA 146+50 TO 155+50 LT~~ 146+73 ~ 158+00
~~STA 158+00 TO 163+25 LT~~ 158+44 ~ 163+24

REMOVAL OF EXISTING RAILING

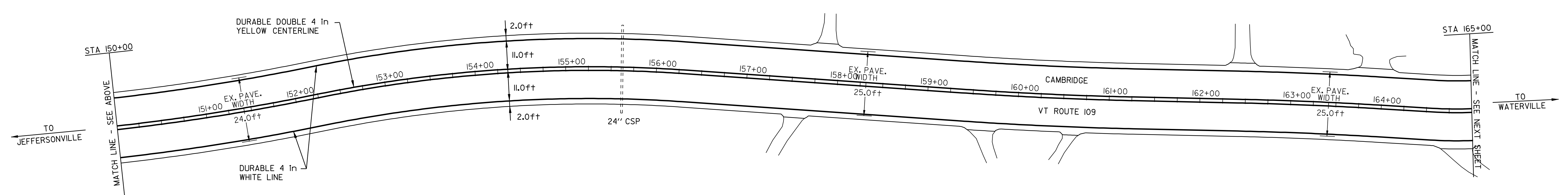
STA 143+40 TO 143+65 RT
 STA 143+40 TO 143+65 LT

BRIDGE RAIL-H.D.S.B. CURB MOUNTED, MOD. 1

STA 143+40 TO 143+65 RT
 STA 143+40 TO 143+65 LT



STA 142+78 TO 143+15 LT INSTALL MANUFACTURED TERMINAL SECTION (FLARED) STA 142+78 TO 143+40 LT REMOVAL AND DISPOSAL OF GUARD RAIL STA 143+15 TO 143+40 LT INSTALL H.D.S.B. GUARD RAIL STA 143+40 TO 143+65 LT REMOVAL OF EXISTING RAILING	STA 143+40 TO 143+65 LT BRIDGE RAIL-H.D.S.B. CURB MNTD, MOD. 1 STA 143+65 TO 143+90 LT INSTALL H.D.S.B. GUARD RAIL STA 143+65 TO 144+27 LT REMOVAL AND DISPOSAL OF GUARD RAIL STA 143+90 TO 144+27 LT INSTALL MANUFACTURED TERMINAL SECTION (FLARED)	STA 142+78 TO 143+15 RT INSTALL MANUFACTURED TERMINAL SECTION (FLARED) STA 142+78 TO 143+40 RT REMOVAL AND DISPOSAL OF GUARD RAIL STA 143+15 TO 143+40 RT INSTALL H.D.S.B. GUARD RAIL STA 143+40 TO 143+65 RT REMOVAL OF EXISTING RAILING	STA 143+40 TO 143+65 RT BRIDGE RAIL-H.D.S.B. CURB MNTD, MOD. 1 STA 143+65 TO 143+90 RT INSTALL H.D.S.B. GUARD RAIL STA 143+65 TO 144+27 RT REMOVAL AND DISPOSAL OF GUARD RAIL STA 143+90 TO 144+27 RT INSTALL MANUFACTURED TERMINAL SECTION (FLARED)
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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

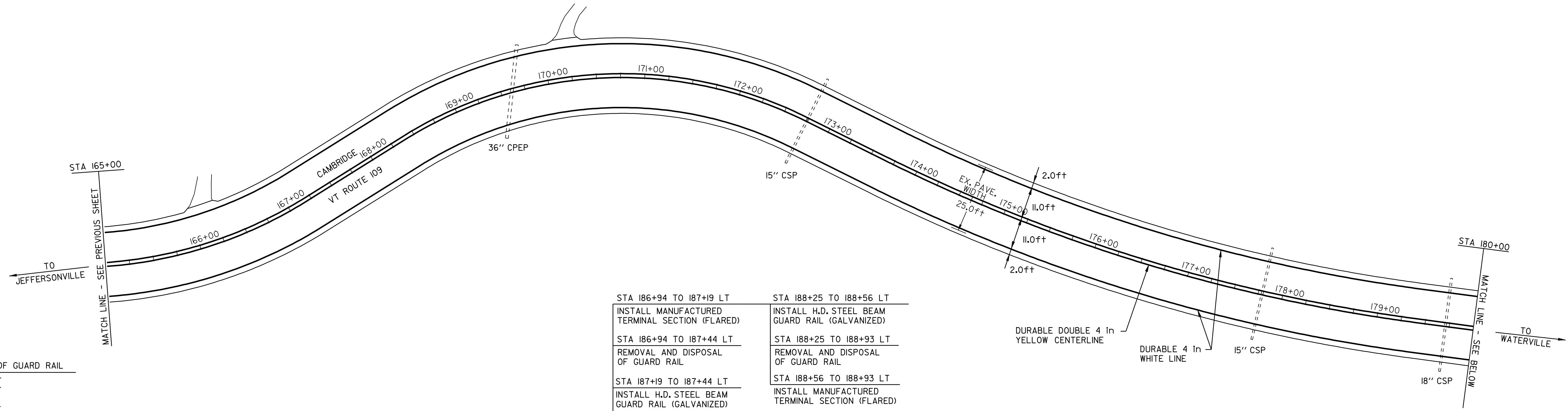
PAVING PROJECT LAYOUT SHEET #5

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99cl90.dgn		
PRF FILE	p99cl90i05.1	DATE PLOTTED	12-DEC-2008 03
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	14	OF	37 SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 165+00 TO 195+00 SOLID LT&RT
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 165+00 TO 195+00 SOLID LT&RT
 (WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

REMOVING SIGNS
 7



REMOVAL AND DISPOSAL OF GUARD RAIL

- STA 186+75 TO 187+44 RT
- STA 186+94 TO 187+44 LT
- STA 188+25 TO 189+01 RT
- STA 188+25 TO 188+93 LT

REMOVAL OF EXISTING RAILING

- STA 187+44 TO 188+25 RT
- STA 187+44 TO 188+25 LT

BRIDGE RAIL-H.D.S.B. FASCIA MOUNTED, MOD. I

- STA 187+44 TO 188+25 RT
- STA 187+44 TO 188+25 LT

H.D. STEEL BEAM GUARD RAIL (GALVANIZED)

- STA 187+12 TO 187+44 RT
- STA 187+19 TO 187+44 LT
- STA 188+25 TO 188+50 RT
- STA 188+25 TO 188+56 LT

STEEL BEAM GUARD RAIL (GALVANIZED)

- STA 188+50 TO 188+64 RT

MANUFACTURED TERMINAL SECTION (FLARED)

- STA 186+75 TO 187+12 RT
- STA 186+94 TO 187+19 LT
- STA 188+64 TO 189+01 RT
- STA 188+56 TO 188+93 LT

DITCHING LOCATIONS (REFER TO SHEET 9 FOR DETAILS)

- STA 168+00 TO 172+75 LT 168+34 ~ 173+36
- STA 176+50 TO 178+00 LT 176+10 ~ 180+17
- STA 180+50 TO 183+50 LT 183+72

STA 186+94 TO 187+19 LT

INSTALL MANUFACTURED TERMINAL SECTION (FLARED)

STA 186+94 TO 187+44 LT

REMOVAL AND DISPOSAL OF GUARD RAIL

STA 187+19 TO 187+44 LT

INSTALL H.D. STEEL BEAM GUARD RAIL (GALVANIZED)

STA 187+44 TO 188+25 LT

REMOVAL OF EXISTING RAILING

STA 187+44 TO 188+25 LT

BRIDGE RAIL-H.D.S.B. FASCIA MNTD, MOD. I

STA 188+25 TO 188+56 LT

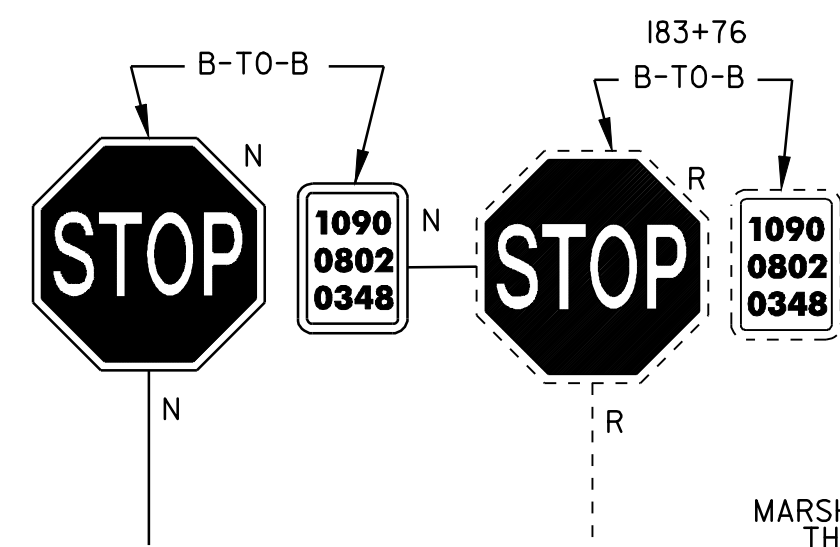
INSTALL H.D. STEEL BEAM GUARD RAIL (GALVANIZED)

STA 188+25 TO 188+93 LT

REMOVAL AND DISPOSAL OF GUARD RAIL

STA 188+56 TO 188+93 LT

INSTALL MANUFACTURED TERMINAL SECTION (FLARED)



MARSH ROAD TH #15
 STA 183+86
 MM 3.482

BRIDGE #3
 STA 187+85
 COLD PLANE 1/2" & PAVE 1 1/2"

NORTH BRANCH - LAMOILLE RIVER

STREAM

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 #6

DESIGNED BY BCE/PJM DATE 8-05
 DRAWN BY C.E.A., INC. DATE 8-05
 DESIGN FILE NO. p99ci90.dgn
 PRF FILE p99ci90i06.1 DATE 12-DEC-2008
 PLOTTED 12-DEC-2008 09:30
 PROJ. NAME **CAMBRIDGE - BELVIDERE**
 PROJ. NO. **STP 2219(1)S**
 SHEET **15** OF **37** SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE
TOWN OF CAMBRIDGE
STA 195+00 TO 200+10

TEMPORARY AND DURABLE 4 in WHITE LINE
TOWN OF CAMBRIDGE
STA 165+00 TO 195+00

TEMPORARY AND DURABLE LETTER OR SYMBOL
TOWN OF WATERVILLE
STA 1+72 RT
STA 10+27 RT

TEMPORARY AND DURABLE 24 in STOP BAR
TOWN OF WATERVILLE
STA 1+72 RT
STA 10+27 RT

REMOVING SIGNS
TOWN OF WATERVILLE
5

TOWN OF WATERVILLE
STA 0+00 TO 2+00
STA 1+72
STA 10+27
(WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TOWN OF WATERVILLE
STA 0+00 TO 2+00
(WITH EDGE LINE BREAKS FOR TOWN HIGHWAYS)

REMOVAL AND DISPOSAL OF GUARD RAIL
STA 15+80 TO 18+92 LT
12+42

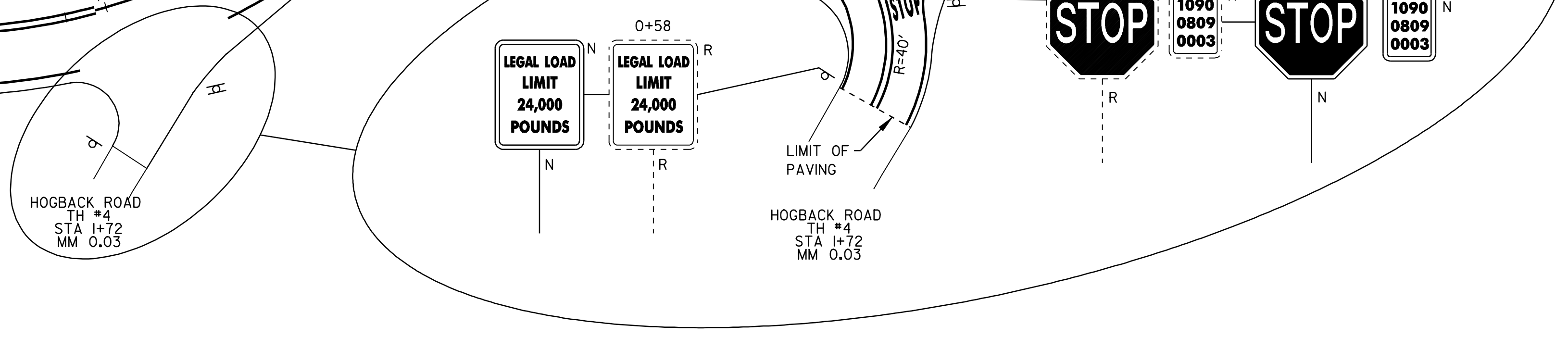
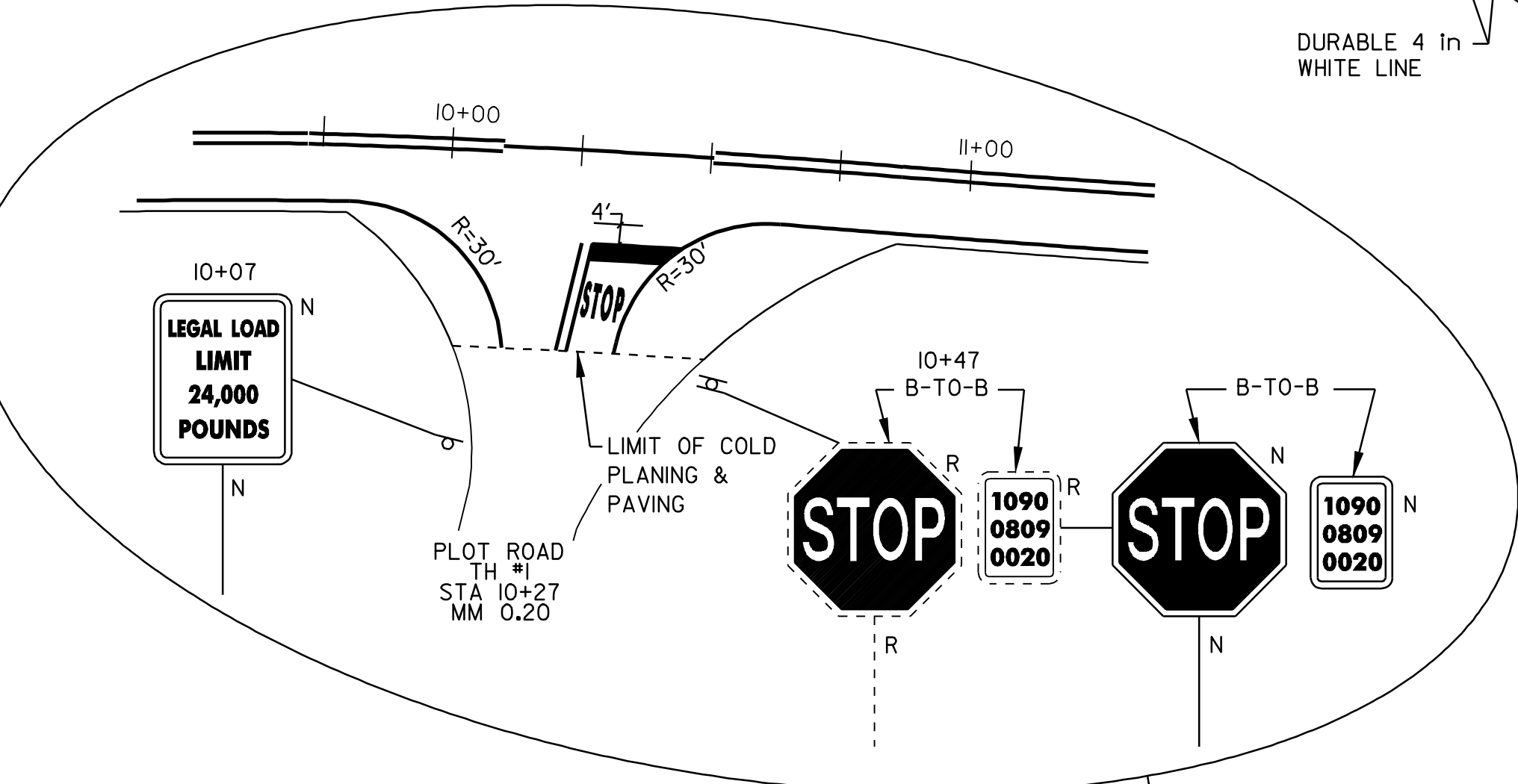
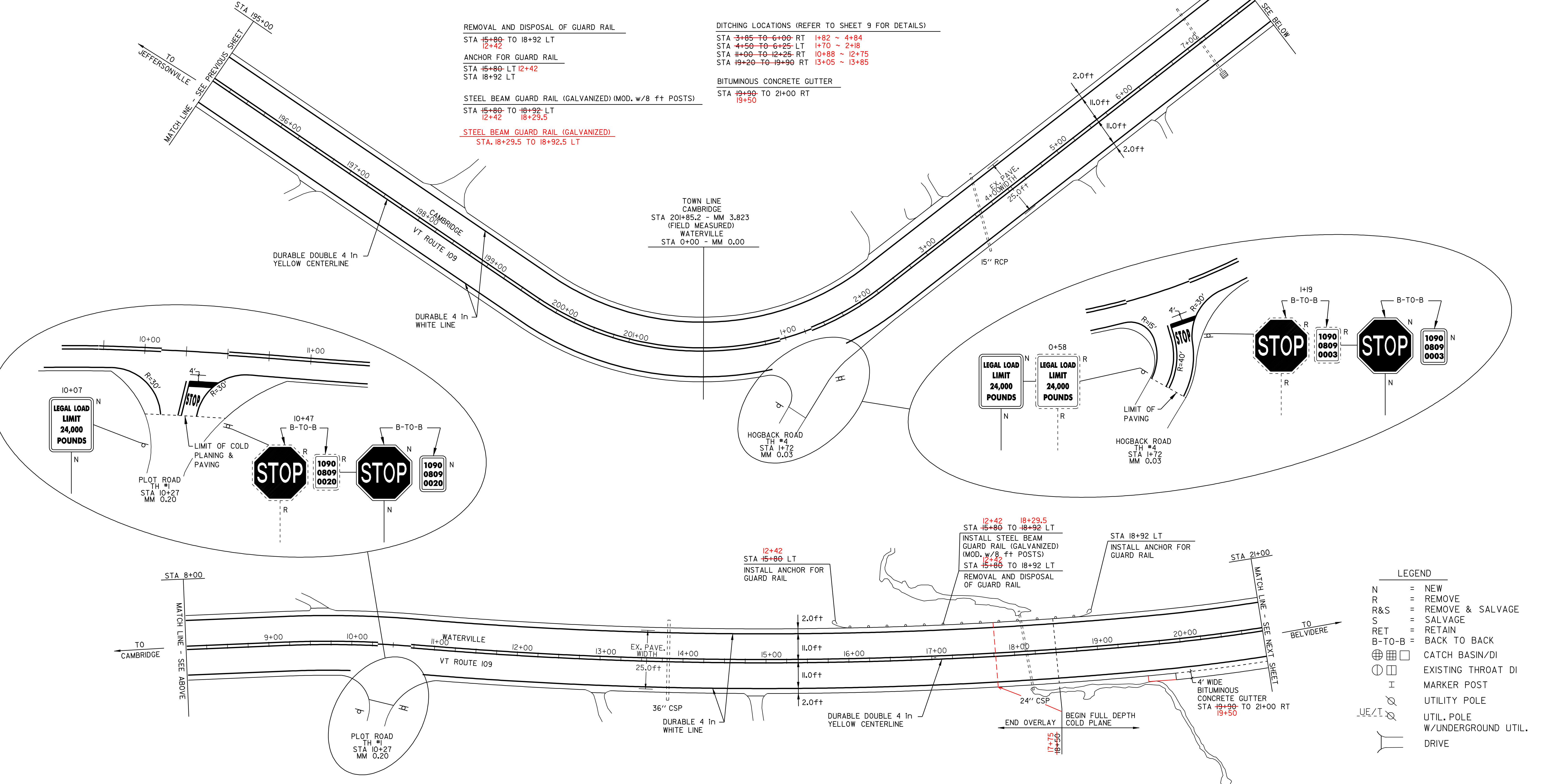
ANCHOR FOR GUARD RAIL
STA 15+80 LT 12+42
STA 18+92 LT

STEEL BEAM GUARD RAIL (GALVANIZED) (MOD. w/8 ft POSTS)
STA 15+80 TO 18+92 LT
12+42 18+29.5

STEEL BEAM GUARD RAIL (GALVANIZED)
STA. 18+29.5 TO 18+92.5 LT

DITCHING LOCATIONS (REFER TO SHEET 9 FOR DETAILS)
STA 3+85 TO 6+00 RT 1+82 ~ 4+84
STA 4+50 TO 6+25 LT 1+70 ~ 2+18
STA 11+00 TO 12+25 RT 10+88 ~ 12+75
STA 19+20 TO 19+90 RT 13+05 ~ 13+85

BITUMINOUS CONCRETE GUTTER
STA 19+90 TO 21+00 RT
19+50



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 #7

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99ci90.dgn		
PRF FILE	p99ci90i07.1	DATE PLOTTED	12-DEC-2008 03
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	16	OF	37 SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 21+00 TO 36+00
 SOLID LT&RT
 DOUBLE SOLID LT
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 21+00 TO 36+00
 SOLID LT&RT
 (WITH EDGE LINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE LETTER OR SYMBOL
 STA 28+13 LT "STOP"

TEMPORARY AND DURABLE 24 in STOP BAR
 STA 28+13 LT CHURCH STREET

REMOVING SIGNS
 7
 8

REMOVAL AND DISPOSAL OF GUARD RAIL
 STA 34+40 TO 36+00 LT

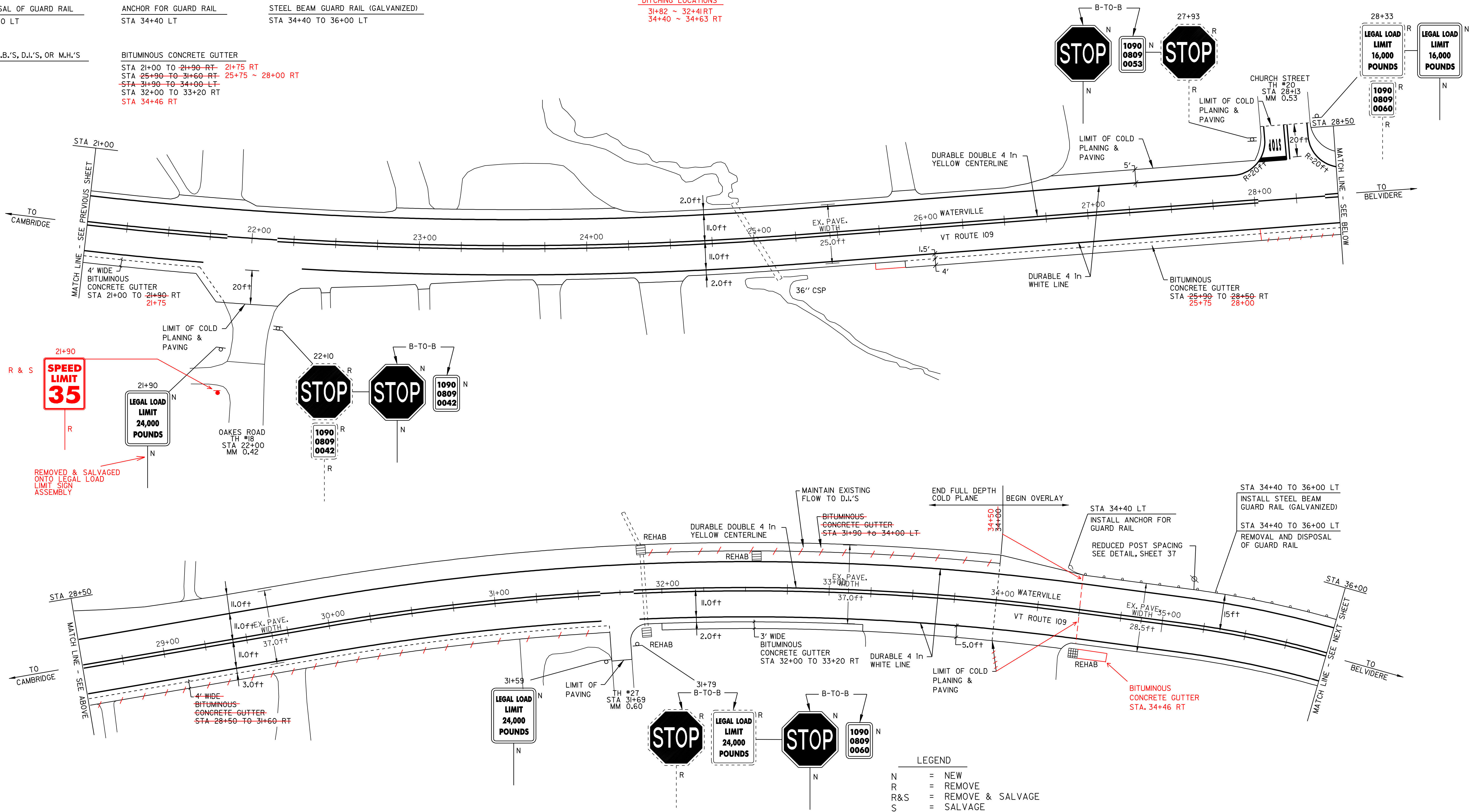
ANCHOR FOR GUARD RAIL
 STA 34+40 LT

STEEL BEAM GUARD RAIL (GALVANIZED)
 STA 34+40 TO 36+00 LT

DITCHING LOCATIONS
 31+82 ~ 32+41 RT
 34+40 ~ 34+63 RT

REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S
 STA 31+90 LT&RT
 STA 32+60 LT
 STA 34+46 RT

BITUMINOUS CONCRETE GUTTER
 STA 21+00 TO 21+90 RT 21+75 RT
 STA 25+90 TO 31+60 RT 25+75 ~ 28+00 RT
 STA 31+90 TO 34+00 LT
 STA 32+00 TO 33+20 RT
 STA 34+46 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
 - 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.	p99ci90.dgn		
PRF FILE	p99ci90i08.i	DATE PLOTTED	12-DEC-2008 09
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	17	OF	37 SHEETS

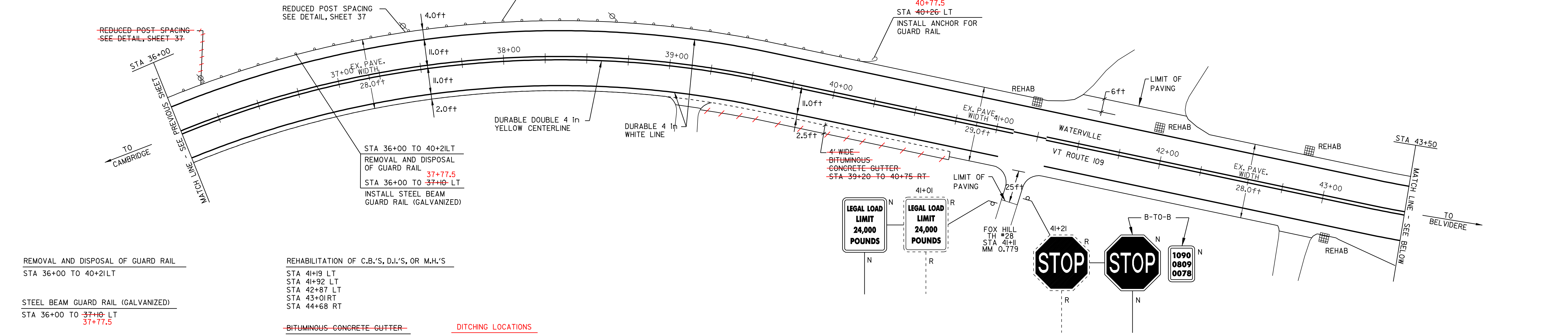
TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 36+00 TO 5+00 SOLID LT&RT
 STA 49+52 DOUBLE SOLID LT
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 36+00 TO 5+00 SOLID LT&RT
 (WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

REMOVING SIGNS
 -R-

TEMPORARY AND DURABLE LETTER OR SYMBOL
 STA 49+52 LT "STOP"

TEMPORARY AND DURABLE 24 in STOP BAR
 STA 49+52 LT LAPLAND ROAD



REMOVAL AND DISPOSAL OF GUARD RAIL
 STA 36+00 TO 40+21LT

REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S
 STA 41+9 LT
 STA 41+92 LT
 STA 42+87 LT
 STA 43+01RT
 STA 44+68 RT

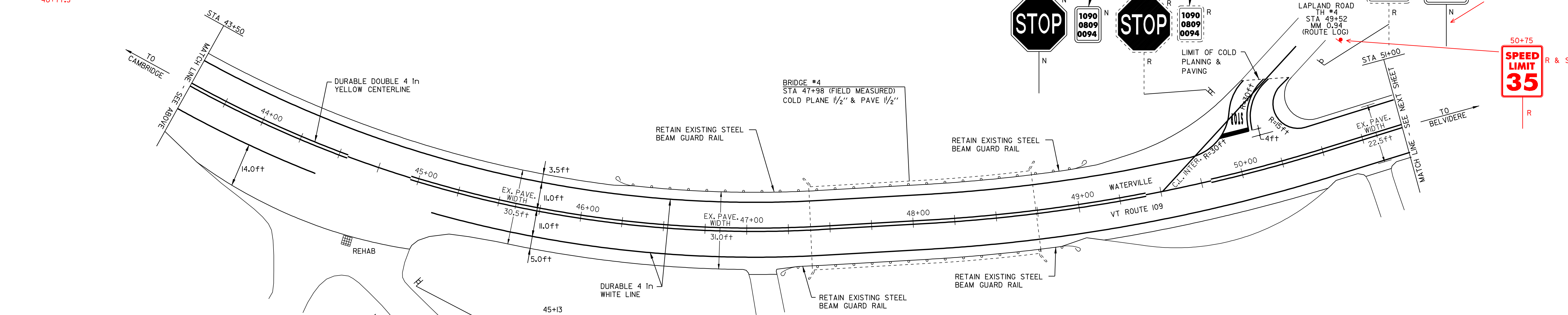
STEEL BEAM GUARD RAIL (GALVANIZED)
 STA 36+00 TO 37+00 LT
 37+77.5

~~BITUMINOUS CONCRETE CUTTER~~
~~STA 39+20 TO 40+75 RT~~

DITCHING LOCATIONS
 49+14 ~ 49+54 LT

STEEL BEAM GUARD RAIL (GALVANIZED) (MOD. w/8 ft POSTS)
 STA 37+00 TO 40+26-LT
 37+77.5 40+77.5

ANCHOR FOR GUARD RAIL
 STA 40+26-LT
 40+77.5



LEGAL LOAD LIMIT 24,000 POUNDS
 LEGAL LOAD LIMIT 24,000 POUNDS

45+13
SPEED LIMIT 35

STOP STOP
 1090 0809 0085 1090 0809 0085

- 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 #9

DESIGNED BY BCE/PJM DATE 8-05
 DRAWN BY C.E.A., INC. DATE 8-05
 DESIGN FILE NO. p99ci90.dgn
 PRF FILE p99ci90i09.i DATE PLOTTED 12-DEC-2008 09
 PROJ. NAME **CAMBRIDGE - BELVIDERE**
 PROJ. NO. **STP 2219(1)S**
 SHEET **18** OF **37** SHEETS

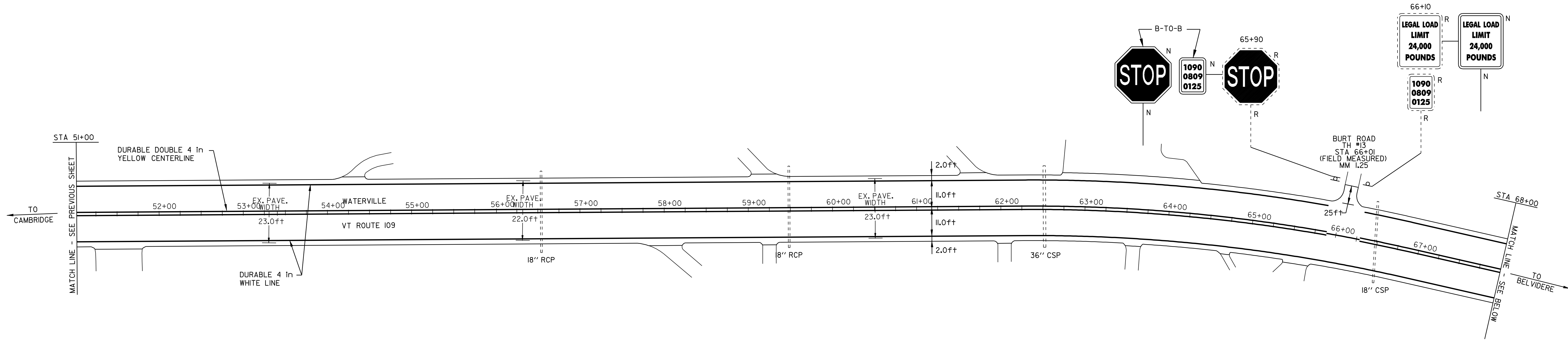
REMOVED & SALVAGED ONTO LEGAL LOAD LIMIT SIGN ASSEMBLY

REMOVED & SALVAGED ONTO LEGAL LOAD LIMIT SIGN ASSEMBLY

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 51+00 TO 85+00 SOLID LT&RT
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 51+00 TO 85+00 SOLID LT&RT
 (WITH EDGE LINE BREAKS FOR TOWN HIGHWAYS)

REMOVING SIGNS
 3



REMOVAL AND DISPOSAL OF GUARD RAIL

STA 73+88 TO 76+60 RT

ANCHOR FOR GUARD RAIL

STA 73+88 RT
 STA 76+62 RT

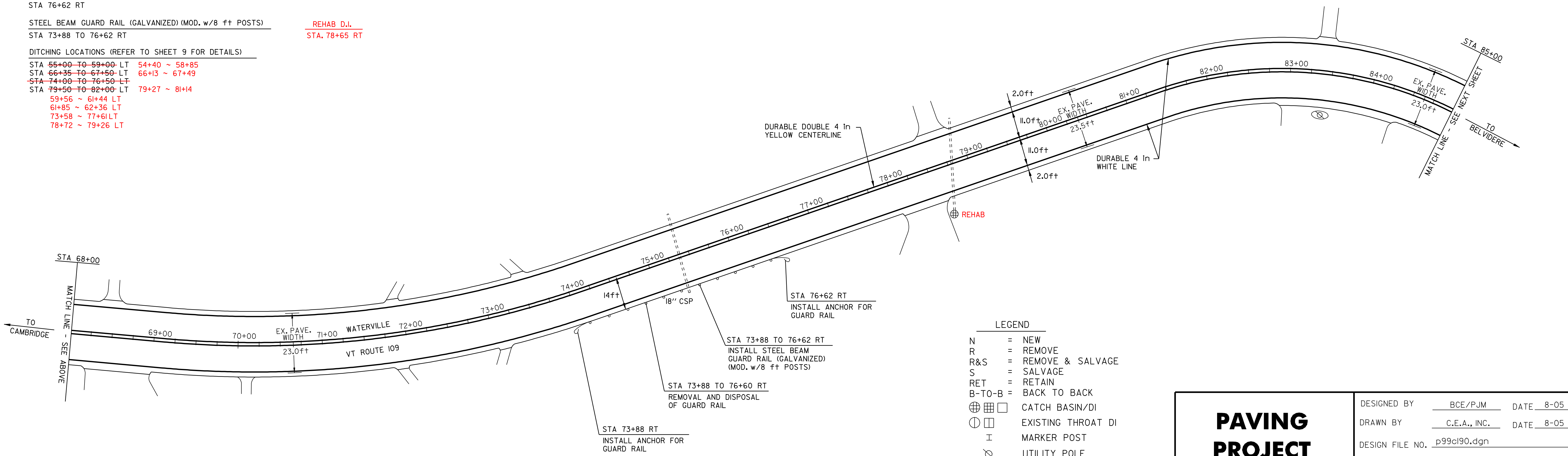
STEEL BEAM GUARD RAIL (GALVANIZED) (MOD. w/8 ft POSTS)

STA 73+88 TO 76+62 RT

REHAB D.I.
 STA. 78+65 RT

DITCHING LOCATIONS (REFER TO SHEET 9 FOR DETAILS)

- STA 55+00 TO 59+00 LT 54+40 ~ 58+85
- STA 66+38 TO 67+50 LT 66+13 ~ 67+49
- STA 74+00 TO 76+50 LT
- STA 79+50 TO 82+00 LT 79+27 ~ 81+14
- 59+56 ~ 61+44 LT
- 61+85 ~ 62+36 LT
- 73+58 ~ 77+61 LT
- 78+72 ~ 79+26 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 #10

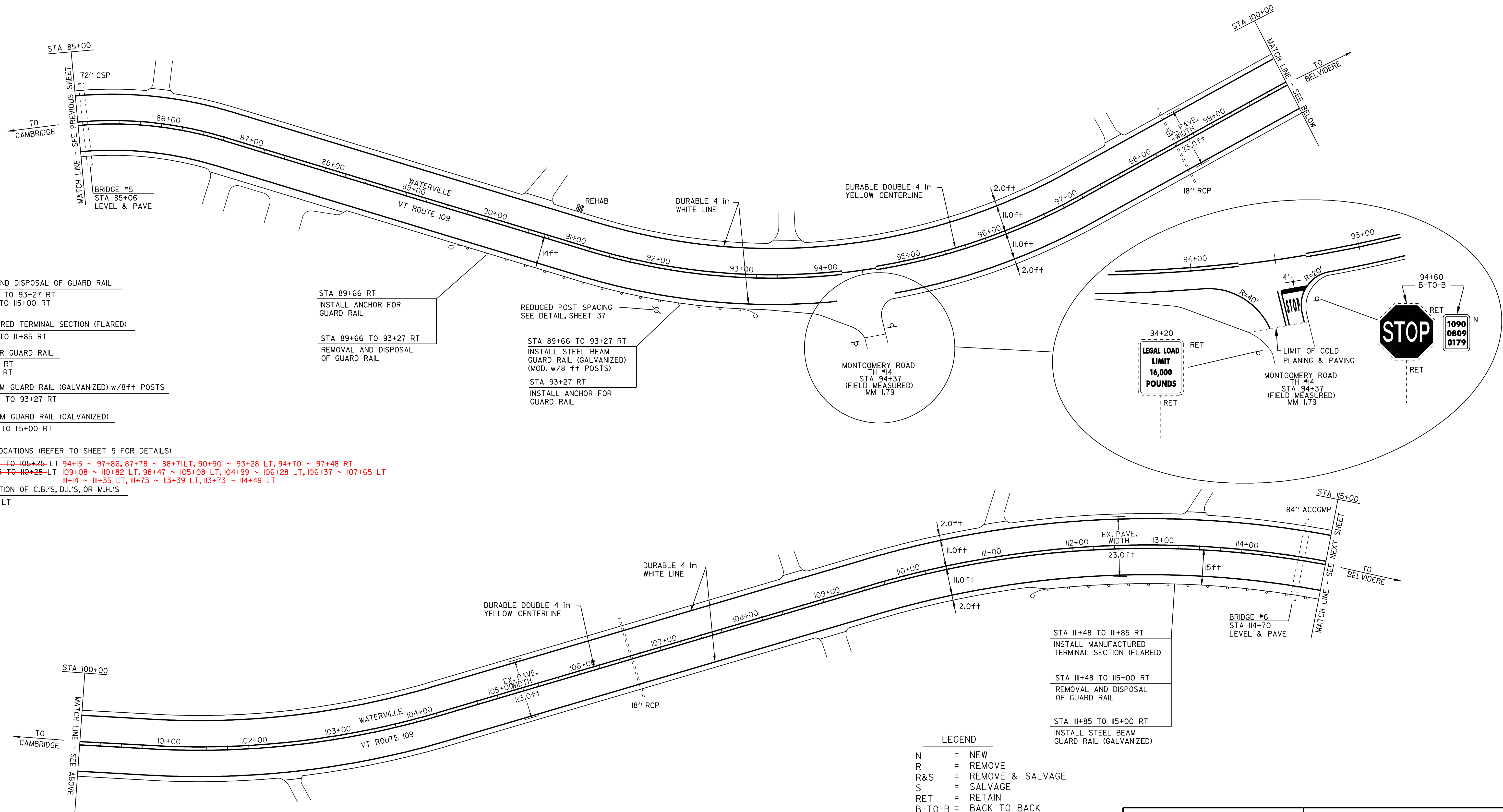
DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99ci90.dgn		
PRF FILE	p99ci90i10.1	DATE PLOTTED	12-DEC-2008 09
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	19	OF	37 SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 85+00 TO 115+00 SOLID LT&RT
 STA 94+37 DOUBLE SOLID RT
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 85+00 TO 115+00 SOLID LT&RT
 (WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE LETTER OR SYMBOL
 STA 94+37 RT "STOP"

TEMPORARY AND DURABLE 24 in STOP BAR
 STA 94+37 RT MONTGOMERY ROAD



REMOVAL AND DISPOSAL OF GUARD RAIL
 STA 89+66 TO 93+27 RT
 STA 111+48 TO 115+00 RT

MANUFACTURED TERMINAL SECTION (FLARED)
 STA 111+48 TO 111+85 RT

ANCHOR FOR GUARD RAIL
 STA 89+66 RT
 STA 93+27 RT

STEEL BEAM GUARD RAIL (GALVANIZED) w/8ft POSTS
 STA 89+66 TO 93+27 RT

STEEL BEAM GUARD RAIL (GALVANIZED)
 STA 111+85 TO 115+00 RT

DITCHING LOCATIONS (REFER TO SHEET 9 FOR DETAILS)

STA 94+00 TO 105+25 LT 94+15 ~ 97+86, 87+78 ~ 88+71 LT, 90+90 ~ 93+28 LT, 94+70 ~ 97+48 RT
 STA 109+25 TO 110+25 LT 109+08 ~ 110+82 LT, 98+47 ~ 105+08 LT, 104+99 ~ 106+28 LT, 106+37 ~ 107+65 LT
 111+14 ~ 111+35 LT, 111+73 ~ 113+39 LT, 113+73 ~ 114+49 LT

REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S
 STA 91+02 LT

STA 89+66 RT
 INSTALL ANCHOR FOR
 GUARD RAIL

STA 89+66 TO 93+27 RT
 REMOVAL AND DISPOSAL
 OF GUARD RAIL

REDUCED POST SPACING
 SEE DETAIL, SHEET 37

STA 89+66 TO 93+27 RT
 INSTALL STEEL BEAM
 GUARD RAIL (GALVANIZED)
 (MOD. w/8 ft POSTS)
 STA 93+27 RT
 INSTALL ANCHOR FOR
 GUARD RAIL

MONTGOMERY ROAD
 TH #14
 STA 94+37
 (FIELD MEASURED)
 MM 1.79

94+20
 LEGAL LOAD
 LIMIT
 16,000
 POUNDS

MONTGOMERY ROAD
 TH #14
 STA 94+37
 (FIELD MEASURED)
 MM 1.79

94+60
 B-T-O-B
 RET
 STOP
 RET
 1090
 0809
 0179

STA 111+48 TO 111+85 RT
 INSTALL MANUFACTURED
 TERMINAL SECTION (FLARED)

STA 111+48 TO 115+00 RT
 REMOVAL AND DISPOSAL
 OF GUARD RAIL

STA 111+85 TO 115+00 RT
 INSTALL STEEL BEAM
 GUARD RAIL (GALVANIZED)

- 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 #11

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99ci90.dgn		
PRF FILE	p99ci90III.1	DATE PLOTTED	12-DEC-2008 09
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	20	OF	37 SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 115+00 TO 145+00 SOLID LT&RT
 STA 120+20 DOUBLE SOLID RT
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 115+00 TO 145+00 SOLID LT&RT
 (WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE LETTER OR SYMBOL
 STA 120+20 RT "STOP"

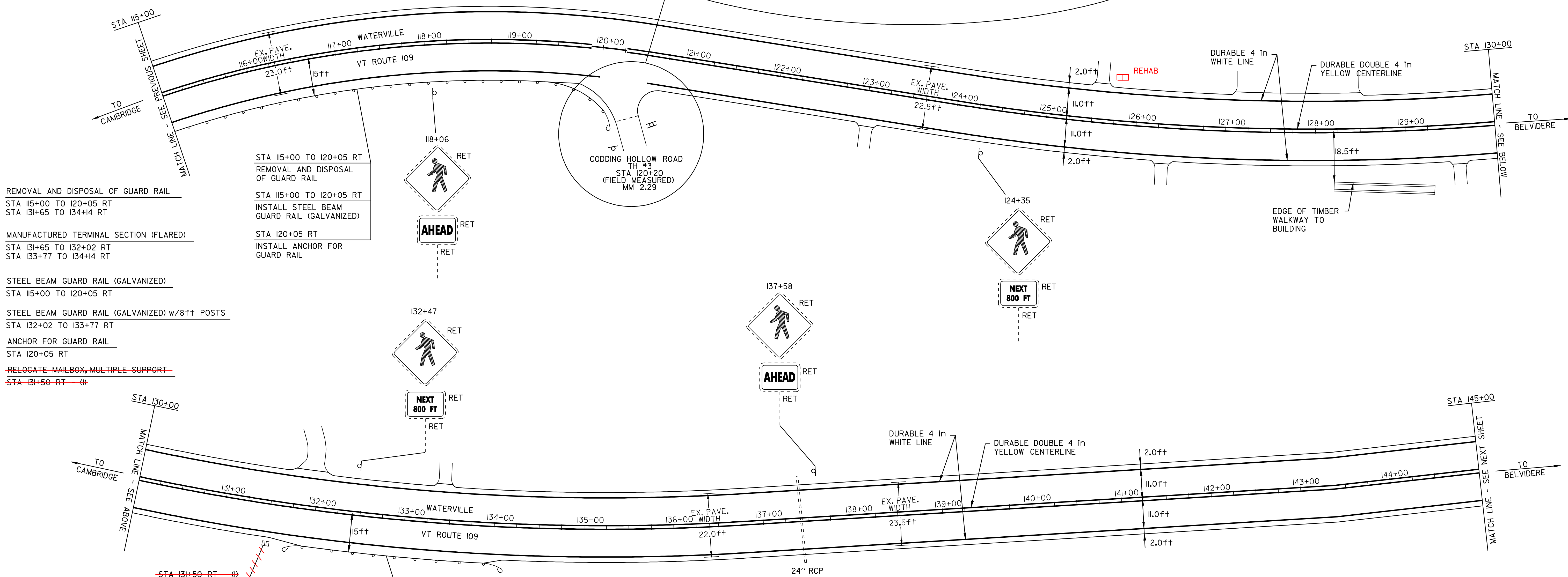
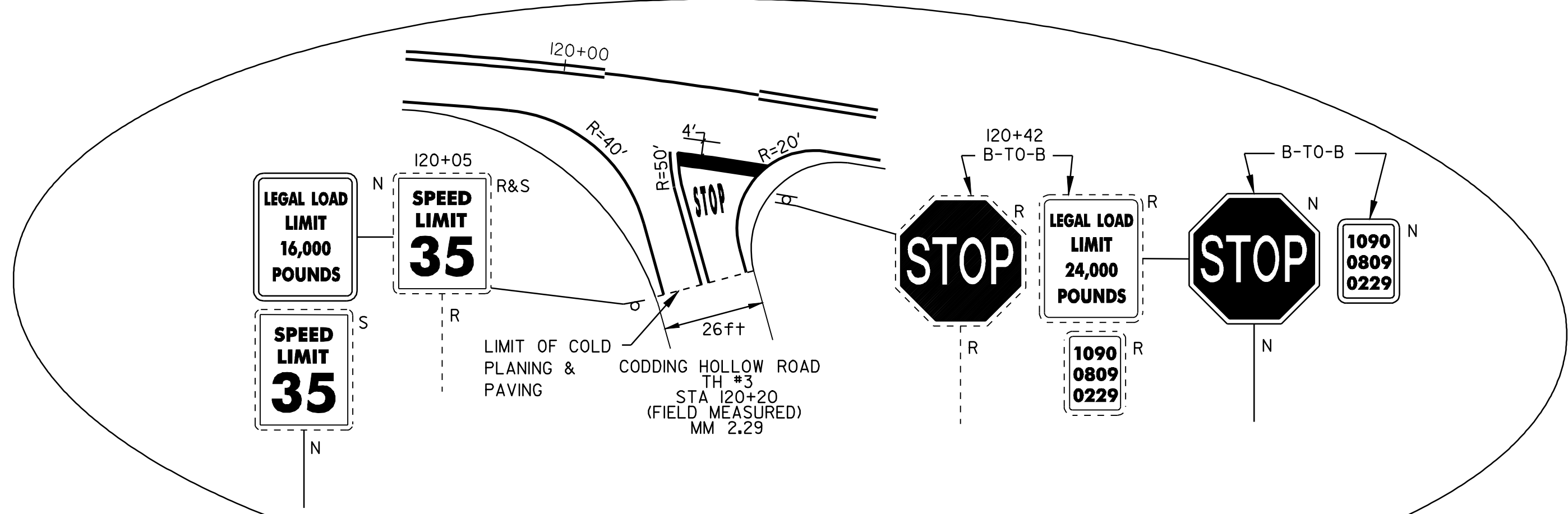
TEMPORARY AND DURABLE 24 in STOP BAR
 STA 120+20 RT CODDING HOLLOW ROAD

REMOVING SIGNS
 4

DITCHING LOCATIONS (REFER TO SHEET 9 FOR DETAILS)

STA 119+50 TO 123+50 LT 119+43 ~ 125+22
 STA 126+00 TO 127+00 LT 125+90 ~ 126+82
 STA 129+75 TO 131+50 LT 128+50 ~ 130+23
 STA 135+00 TO 145+00 LT 135+29 ~ 150+25

REHAB D.I.
 STA 125+75 LT



REMOVAL AND DISPOSAL OF GUARD RAIL
 STA 115+00 TO 120+05 RT
 STA 131+65 TO 134+14 RT

STA 115+00 TO 120+05 RT
 REMOVAL AND DISPOSAL
 OF GUARD RAIL
 STA 115+00 TO 120+05 RT
 INSTALL STEEL BEAM
 GUARD RAIL (GALVANIZED)

MANUFACTURED TERMINAL SECTION (FLARED)
 STA 131+65 TO 132+02 RT
 STA 133+77 TO 134+14 RT

STA 120+05 RT
 INSTALL ANCHOR FOR
 GUARD RAIL

STEEL BEAM GUARD RAIL (GALVANIZED)
 STA 115+00 TO 120+05 RT

STEEL BEAM GUARD RAIL (GALVANIZED) w/8ft POSTS
 STA 132+02 TO 133+77 RT

ANCHOR FOR GUARD RAIL
 STA 120+05 RT

RELOCATE MAILBOX, MULTIPLE SUPPORT
 STA 131+50 RT (4)

STA 131+65 TO 132+02 RT
 INSTALL MANUFACTURED
 TERMINAL SECTION (FLARED)
 STA 131+65 TO 134+14 RT
 REMOVAL AND DISPOSAL
 OF GUARD RAIL
 STA 132+02 TO 133+77 RT
 INSTALL STEEL BEAM
 GUARD RAIL (GALVANIZED)
 (MOD. w/8 ft POSTS)
 STA 133+77 TO 134+14 RT
 INSTALL MANUFACTURED
 TERMINAL SECTION (FLARED)

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 #12

DESIGNED BY BCE/PJM DATE 8-05
 DRAWN BY C.E.A., INC. DATE 8-05
 DESIGN FILE NO. p99cl90.dgn
 PRF FILE p99cl90il2.i DATE 12-DEC-2008
 PLOTTED 12-DEC-2008
 PROJ. NAME **CAMBRIDGE - BELVIDERE**
 PROJ. NO. **STP 2219(1)S**
 SHEET **21** OF **37** SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 145+00 TO 175+00
 SOLID LT&RT

TEMPORARY AND DURABLE LETTER OR SYMBOL
 STA 174+40 RT
 "SCHOOL"

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 145+00 TO 175+00
 SOLID LT&RT

REMOVAL AND DISPOSAL OF GUARD RAIL
 STA 149+26 TO 151+75 RT
 STA 149+71 TO 151+95 LT
 STA 159+11 TO 165+22 RT
 STA 172+41 TO 175+00 RT

MANUFACTURED TERMINAL SECTION (FLARED)
 STA 149+26 TO 149+63 RT
 STA 149+71 TO 150+08 LT
 STA 151+38 TO 151+75 RT
 STA 151+58 TO 151+95 LT
 STA 159+11 TO 159+48 RT
 STA 164+85 TO 165+22 RT
 STA 172+41 TO 172+78 RT

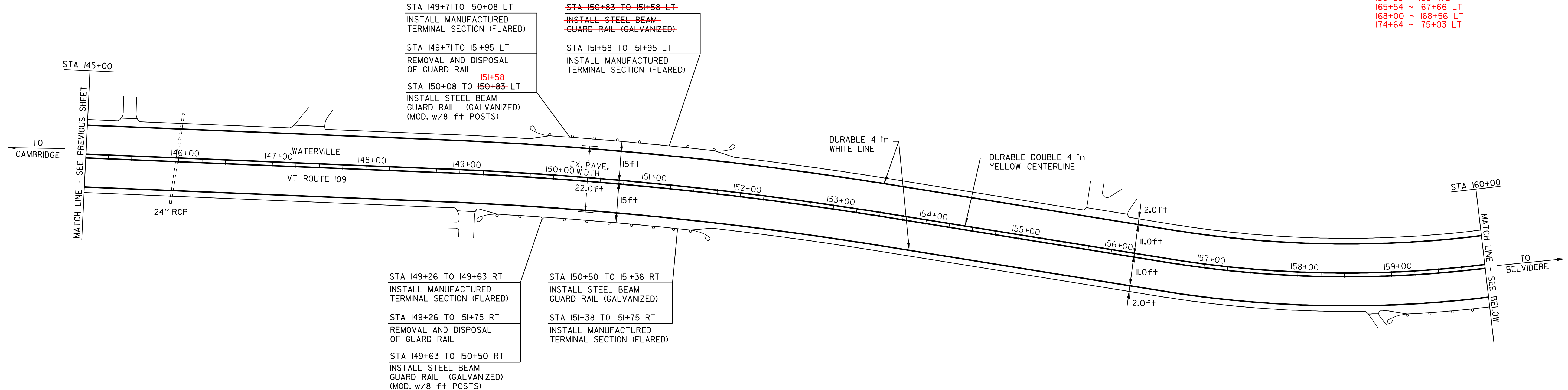
STEEL BEAM GUARD RAIL (GALVANIZED) (MOD. w/8 ft POSTS)
 STA 149+63 TO 150+50 RT
 STA 150+08 TO 150+83 LT 151+58
 STA 159+48 TO 162+60 RT
 STA 174+78 TO 175+00 RT
 172+78

STEEL BEAM GUARD RAIL (GALVANIZED)
 STA 150+50 TO 151+38 RT
~~STA 150+83 TO 151+58 LT~~
 STA 162+60 TO 164+85 RT
~~STA 172+78 TO 174+78 RT~~

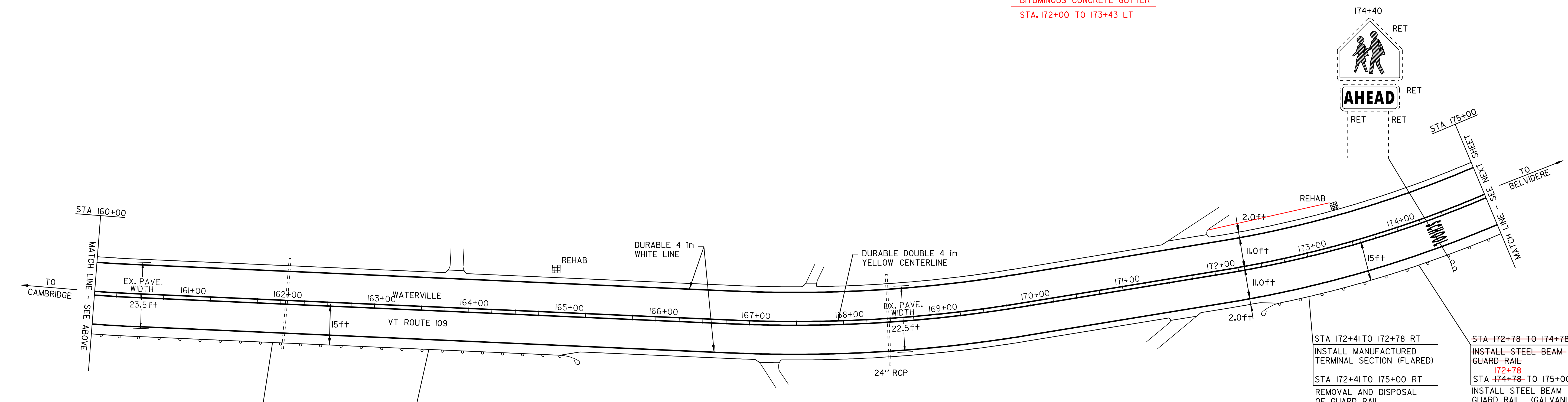
REHABILITATION OF C.B.'S, D.J.'S, OR M.H.'S
 STA 164+92 LT
 STA 173+43 LT

DITCHING LOCATIONS

152+29 ~ 155+21 LT
 159+32 ~ 160+71 LT
 165+54 ~ 167+66 LT
 168+00 ~ 168+56 LT
 174+64 ~ 175+03 LT



BITUMINOUS CONCRETE GUTTER
 STA 172+00 TO 173+43 LT



STA 159+11 TO 159+48 RT
 INSTALL MANUFACTURED
 TERMINAL SECTION (FLARED)

STA 159+11 TO 165+22 RT
 REMOVAL AND DISPOSAL
 OF GUARD RAIL

STA 159+48 TO 162+60 RT
 INSTALL STEEL BEAM
 GUARD RAIL (GALVANIZED)
 (MOD. w/8 ft POSTS)

STA 162+60 TO 164+85 RT
 INSTALL STEEL BEAM
 GUARD RAIL (GALVANIZED)

STA 164+85 TO 165+22 RT
 INSTALL MANUFACTURED
 TERMINAL SECTION (FLARED)

STA 172+41 TO 172+78 RT
 INSTALL MANUFACTURED
 TERMINAL SECTION (FLARED)

STA 172+41 TO 175+00 RT
 REMOVAL AND DISPOSAL
 OF GUARD RAIL

~~STA 172+78 TO 174+78 RT~~
~~INSTALL STEEL BEAM~~
~~GUARD RAIL~~
 172+78
 STA 174+78 TO 175+00 RT
 INSTALL STEEL BEAM
 GUARD RAIL (GALVANIZED)
 (MOD. w/8 ft 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
 - I = MARKER POST
 - ⊗ = UTILITY POLE
 - ⊗/I = UTIL. POLE W/UNDERGROUND UTIL.
 - ⌋ ⌌ = DRIVE

PAVING PROJECT LAYOUT SHEET #13

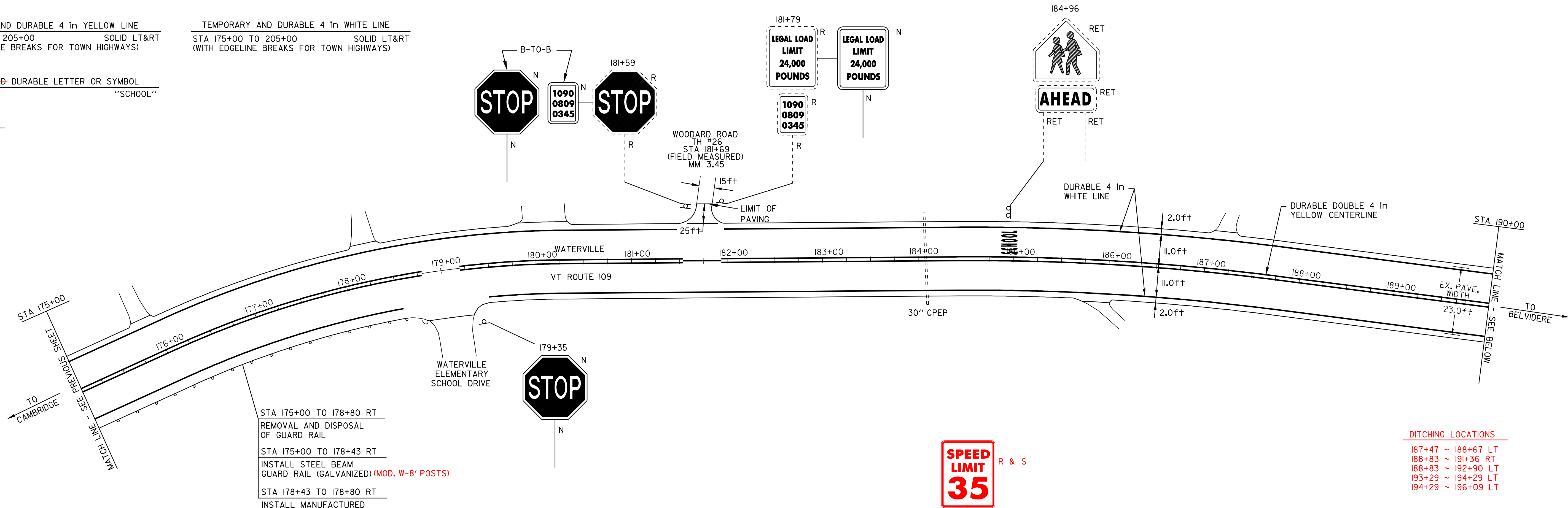
DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99ci90.dgn		
PRF FILE	p99ci90i3.i	DATE PLOTTED	12-DEC-2008 09
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	22	OF	37 SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 175+00 TO 205+00 SOLID LT&RT
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 175+00 TO 205+00 SOLID LT&RT
 (WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE LETTER OR SYMBOL
 STA 184+96 LT "SCHOOL"

REMOVING SIGNS
 6
 7



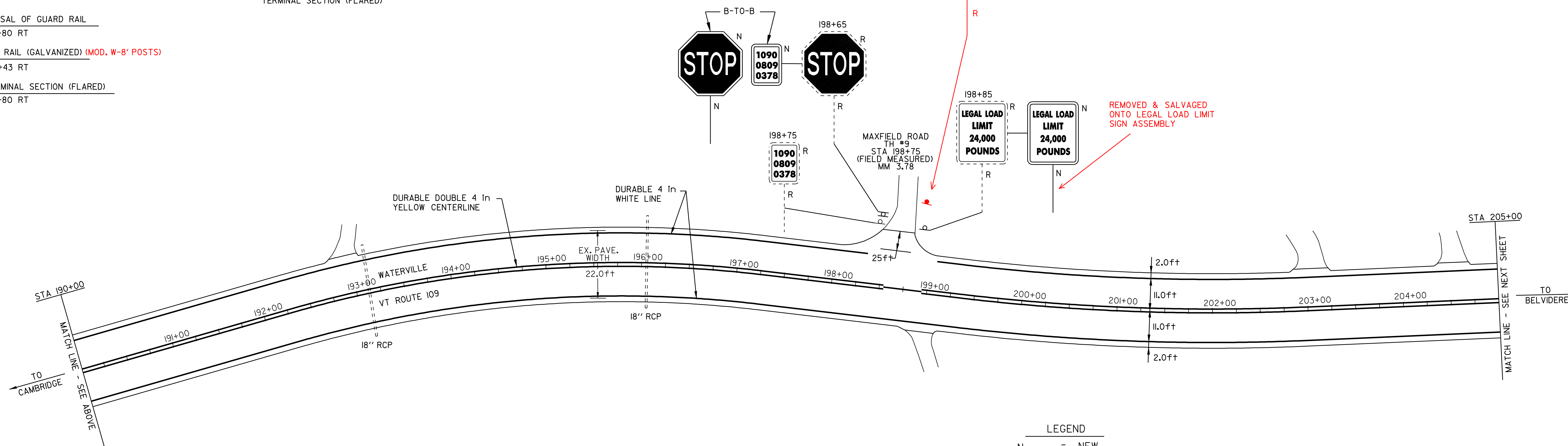
STA 175+00 TO 178+80 RT
 REMOVAL AND DISPOSAL
 OF GUARD RAIL
 STA 175+00 TO 178+43 RT
 INSTALL STEEL BEAM
 GUARD RAIL (GALVANIZED) (MOD. W-8' POSTS)
 STA 178+43 TO 178+80 RT
 INSTALL MANUFACTURED
 TERMINAL SECTION (FLARED)

DITCHING LOCATIONS
 187+47 ~ 188+67 LT
 188+83 ~ 191+36 RT
 188+83 ~ 192+90 LT
 193+29 ~ 194+29 LT
 194+29 ~ 196+09 LT

REMOVAL AND DISPOSAL OF GUARD RAIL
 STA 175+00 TO 178+80 RT

STEEL BEAM GUARD RAIL (GALVANIZED) (MOD. W-8' POSTS)
 STA 175+00 TO 178+43 RT

MANUFACTURED TERMINAL SECTION (FLARED)
 STA 178+43 TO 178+80 RT



REMOVED & SALVAGED
 ONTO LEGAL LOAD LIMIT
 SIGN ASSEMBLY

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 #14

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99ci90.dgn		
PRF FILE	p99ci90i1.1	DATE PLOTTED	12-DEC-2008 09
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	23	OF	37 SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE

TOWN OF WATERVILLE
 STA 205+00 TO 221+91 SOLID LT&RT
 STA 220+75 DOUBLE SOLID LT
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TOWN OF BELVIDERE
 STA 0+00 TO 12+00 SOLID LT&RT
 STA 9+00 LT DOUBLE SOLID LT
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE

TOWN OF WATERVILLE
 STA 205+000 TO 221+91 SOLID LT&RT
 (WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

TOWN OF BELVIDERE
 STA 0+00 TO 12+00 SOLID LT&RT
 (WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE LETTER OR SYMBOL

TOWN OF WATERVILLE
 STA 220+75 LT "STOP"

TOWN OF BELVIDERE
 STA 9+00 LT "STOP"

TEMPORARY AND DURABLE 24 in STOP BAR

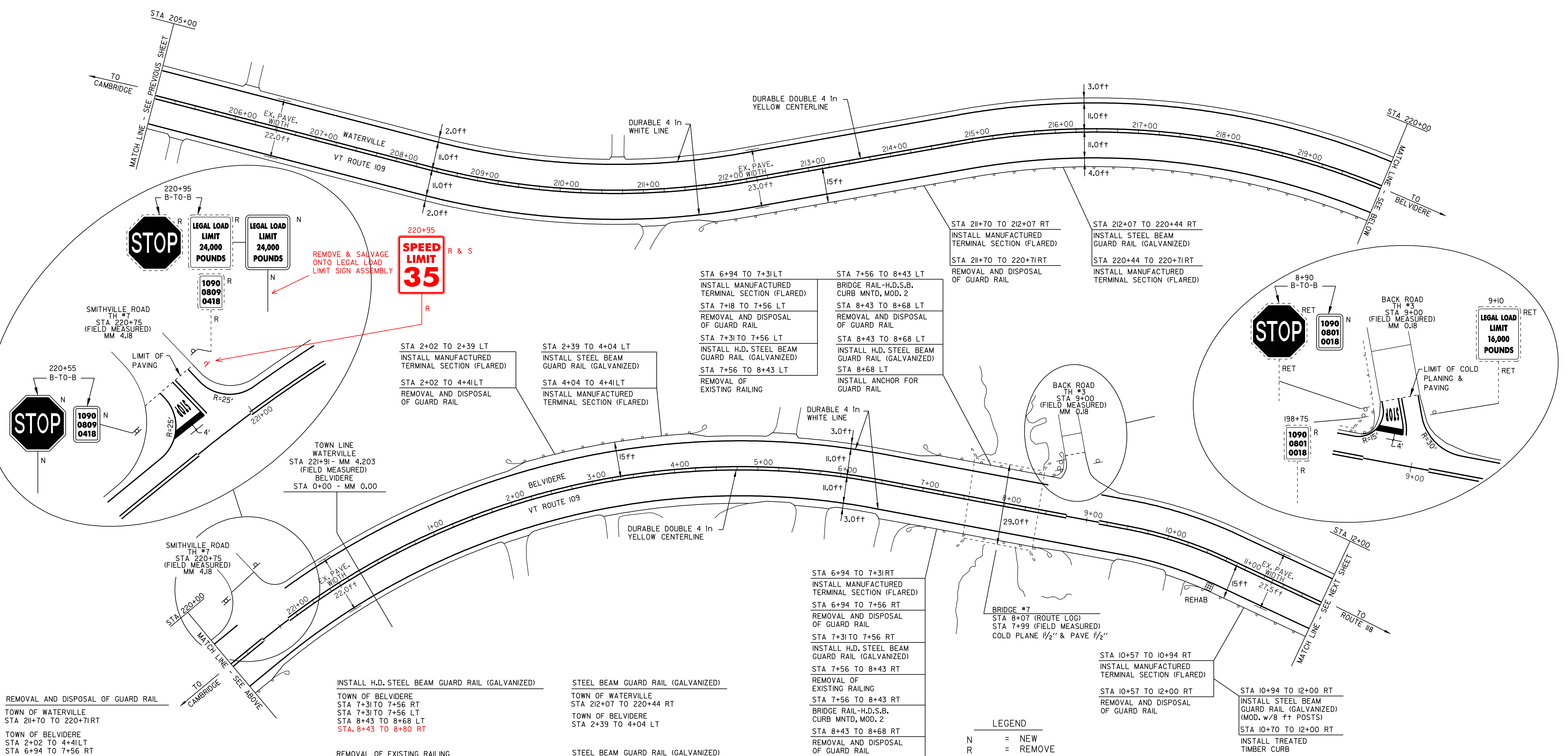
TOWN OF WATERVILLE
 STA 220+75 LT SMITHVILLE ROAD

TOWN OF BELVIDERE
 STA 9+00 LT BACK ROAD

REMOVING SIGNS

TOWN OF WATERVILLE
 -3-4

TOWN OF BELVIDERE
 I



REMOVAL AND DISPOSAL OF GUARD RAIL

TOWN OF WATERVILLE
 STA 211+70 TO 220+71RT

TOWN OF BELVIDERE
 STA 2+02 TO 4+41LT
 STA 6+94 TO 7+56 RT
 STA 7+18 TO 7+56 LT
 STA 8+43 TO 8+68 RT
 STA 8+43 TO 8+68 LT
 STA 10+57 TO 10+94 RT

MANUFACTURED TERMINAL SECTION (FLARED)

TOWN OF WATERVILLE
 STA 211+70 TO 212+07 RT
 STA 220+44 TO 220+71RT

TOWN OF BELVIDERE
 STA 2+02 TO 2+39 LT
 STA 4+04 TO 4+41LT
 STA 6+94 TO 7+31RT
 STA 6+94 TO 7+31LT
 STA 8+43 TO 8+80 RT
 STA 10+57 TO 12+00 RT
 10+94

INSTALL H.D. STEEL BEAM GUARD RAIL (GALVANIZED)

TOWN OF BELVIDERE
 STA 7+31 TO 7+56 RT
 STA 7+31 TO 7+56 LT
 STA 8+43 TO 8+68 LT
 STA 8+43 TO 8+80 RT

REMOVAL OF EXISTING RAILING

TOWN OF BELVIDERE
 STA 7+56 TO 8+43 RT
 STA 7+56 TO 8+43 LT

ANCHOR FOR GUARD RAIL

TOWN OF BELVIDERE
 STA 8+68 LT
 STA 8+80 RT
 BRIDGE RAILING-H.D.S.B. CURB MOUNTED, MOD. 2

TOWN OF BELVIDERE

STA 7+56 TO 8+43 RT
 STA 7+56 TO 8+43 LT

STEEL BEAM GUARD RAIL (GALVANIZED)

TOWN OF WATERVILLE
 STA 212+07 TO 220+44 RT

TOWN OF BELVIDERE
 STA 2+39 TO 4+04 LT

STEEL BEAM GUARD RAIL (GALVANIZED) (MOD. w/8 ft POSTS)

TOWN OF BELVIDERE
 STA 10+94 TO 12+00 RT

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

TOWN OF BELVIDERE
 STA 10+70 RT

TREATED TIMBER CURB

TOWN OF BELVIDERE
 STA 10+70 TO 12+00 RT

DITCHING LOCATIONS (REFER TO SHEET 9 FOR DETAILS)
 TOWN OF WATERVILLE STA 210+40 TO 216+50 LT 210+14 ~ 210+69 LT 211+04 ~ 216+18 LT
 TOWN OF BELVIDERE STA 8+93 ~ 10+02 LT BELVIDERE

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 #15

DESIGNED BY BCE/PJM DATE 8-05

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

DESIGN FILE NO. p99cl90.dgn

PRF FILE p99cl90i15.1 DATE PLOTTED 12-DEC-2008 09:30

PROJ. NAME **CAMBRIDGE - BELVIDERE**

PROJ. NO. **STP 2219(1)S**

SHEET **24** OF **37** SHEETS

STA 6+94 TO 7+31RT
 INSTALL MANUFACTURED TERMINAL SECTION (FLARED)

STA 6+94 TO 7+56 RT
 REMOVAL AND DISPOSAL OF GUARD RAIL

STA 7+31 TO 7+56 RT
 INSTALL H.D. STEEL BEAM GUARD RAIL (GALVANIZED)

STA 7+56 TO 8+43 RT
 REMOVAL OF EXISTING RAILING

STA 8+43 TO 8+68 RT
 REMOVAL AND DISPOSAL OF GUARD RAIL

STA 8+43 TO 8+80 RT
~~INSTALL MANUFACTURED TERMINAL SECTION (FLARED)~~
 INSTALL H.D. STEEL BEAM GUARD RAIL (GALVANIZED)

STA 8+80 RT
 INSTALL ANCHOR FOR GUARD RAIL

STA 6+94 TO 7+31LT
 INSTALL MANUFACTURED TERMINAL SECTION (FLARED)

STA 7+18 TO 7+56 LT
 REMOVAL AND DISPOSAL OF GUARD RAIL

STA 7+31 TO 7+56 LT
 INSTALL H.D. STEEL BEAM GUARD RAIL (GALVANIZED)

STA 7+56 TO 8+43 LT
 REMOVAL OF EXISTING RAILING

STA 7+56 TO 8+43 LT
 BRIDGE RAIL-H.D.S.B. CURB MNTD, MOD. 2

STA 8+43 TO 8+68 LT
 REMOVAL AND DISPOSAL OF GUARD RAIL

STA 8+43 TO 8+68 LT
 INSTALL H.D. STEEL BEAM GUARD RAIL (GALVANIZED)

STA 8+68 LT
 INSTALL ANCHOR FOR GUARD RAIL

STA 2+02 TO 2+39 LT
 INSTALL MANUFACTURED TERMINAL SECTION (FLARED)

STA 2+02 TO 4+41LT
 REMOVAL AND DISPOSAL OF GUARD RAIL

STA 2+39 TO 4+04 LT
 INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)

STA 4+04 TO 4+41LT
 INSTALL MANUFACTURED TERMINAL SECTION (FLARED)

STA 211+70 TO 212+07 RT
 INSTALL MANUFACTURED TERMINAL SECTION (FLARED)

STA 211+70 TO 220+71RT
 REMOVAL AND DISPOSAL OF GUARD RAIL

STA 212+07 TO 220+44 RT
 INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)

STA 220+44 TO 220+71RT
 INSTALL MANUFACTURED TERMINAL SECTION (FLARED)

STOP

1090 0801 0018

LEGAL LOAD LIMIT 16,000 POUNDS

STOP

LEGAL LOAD LIMIT 24,000 POUNDS

1090 0809 0418

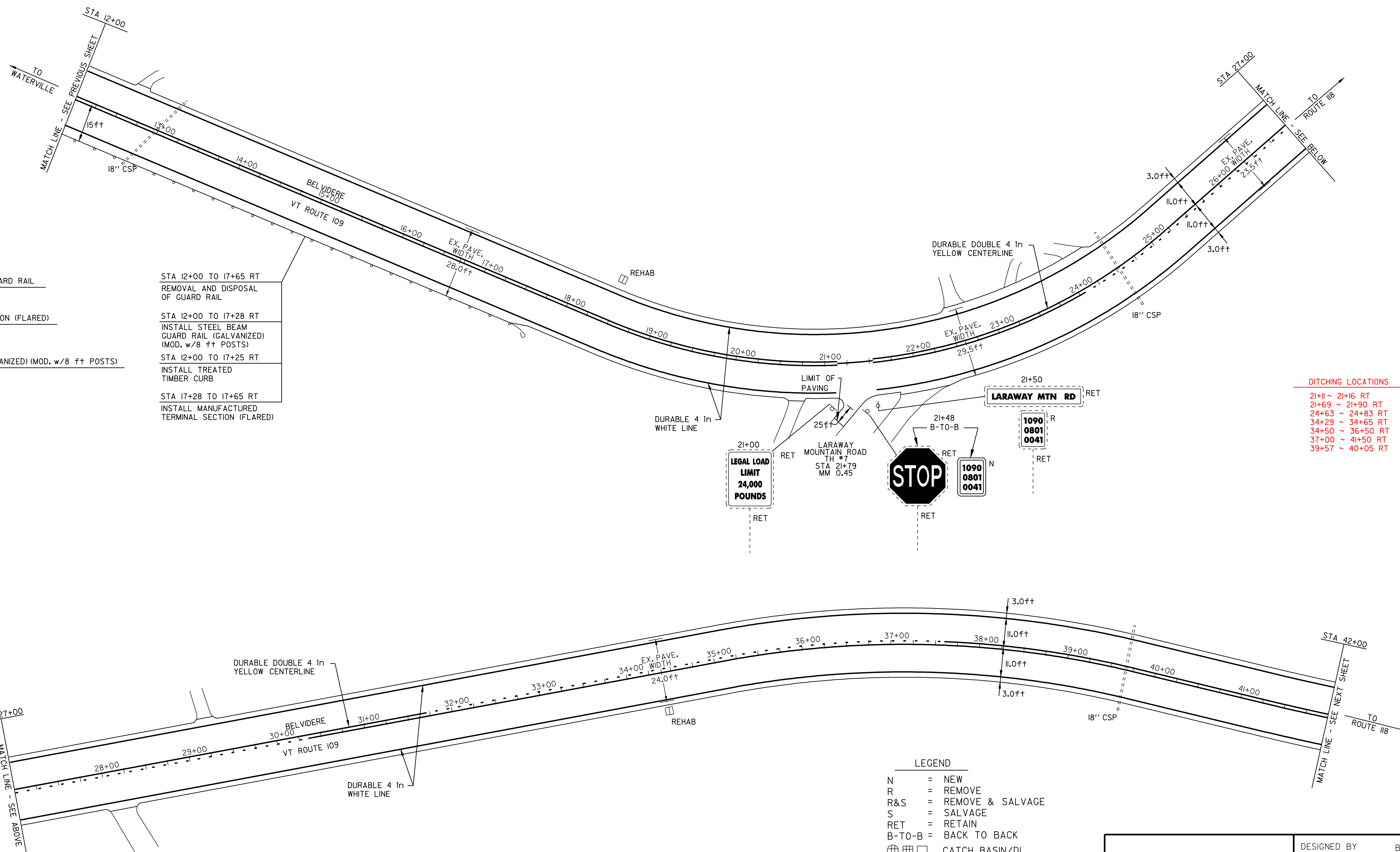
SPEED LIMIT 35

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 12+00 TO 24+06 SOLID LT&RT
 STA 24+06 TO 30+36 SOLID LT & DASHED RT
 STA 30+36 TO 31+68 SOLID LT & RT
 STA 31+68 TO 37+60 DASHED LT & SOLID RT
 STA 37+60 TO 42+00 SOLID LT & RT
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 12+00 TO 42+00 SOLID LT&RT
 (WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

REHABILITATION OF C.B.'S, D.J.'S, OR M.H.'S
 STA 18+50 LT
 STA 34+42 RT

REMOVING SIGNS
 1



- REMOVAL AND DISPOSAL OF GUARD RAIL
 STA 12+00 TO 17+65 RT
- MANUFACTURED TERMINAL SECTION (FLARED)
 STA 17+28 TO 17+65 RT
- STEEL BEAM GUARD RAIL (GALVANIZED) (MOD. w/8 ft POSTS)
 STA 12+00 TO 17+28 RT
- TREATED TIMBER CURB
 STA 12+00 TO 17+25 RT
- STA 12+00 TO 17+65 RT
 REMOVAL AND DISPOSAL OF GUARD RAIL
- STA 12+00 TO 17+28 RT
 INSTALL STEEL BEAM GUARD RAIL (GALVANIZED) (MOD. w/8 ft POSTS)
- STA 12+00 TO 17+25 RT
 INSTALL TREATED TIMBER CURB
- STA 17+28 TO 17+65 RT
 INSTALL MANUFACTURED TERMINAL SECTION (FLARED)

- DITCHING LOCATIONS**
- 21+11 ~ 21+16 RT
 - 21+69 ~ 21+90 RT
 - 24+63 ~ 24+83 RT
 - 34+29 ~ 34+65 RT
 - 34+50 ~ 36+50 RT
 - 37+00 ~ 41+50 RT
 - 39+57 ~ 40+05 RT

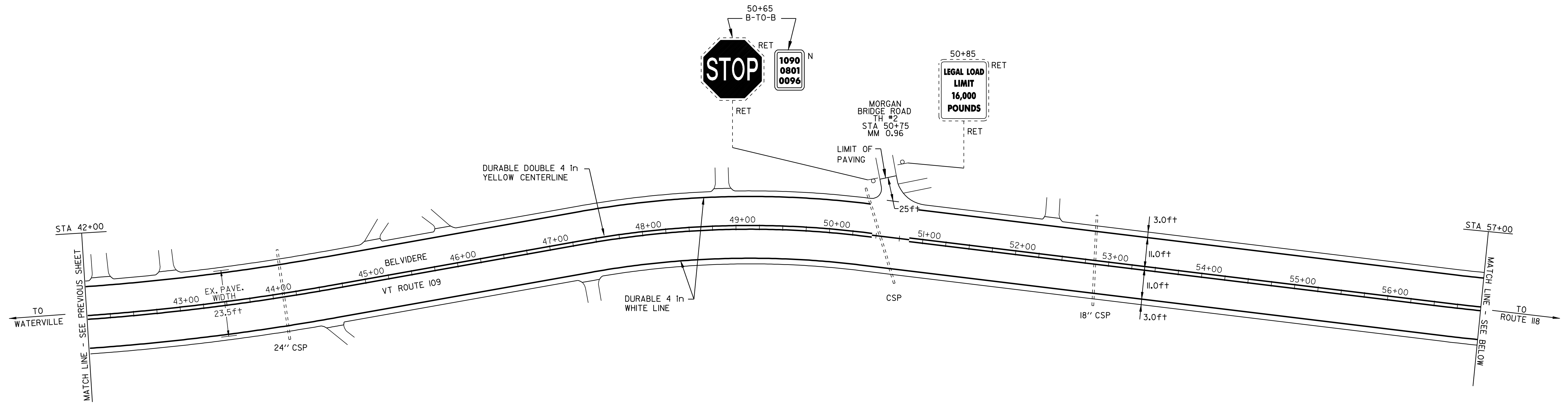
- LEGEND**
- N = NEW
 - R = REMOVE
 - R&S = REMOVE & SALVAGE
 - S = SALVAGE
 - RET = RETAIN
 - B-TO-B = BACK TO BACK
 - ⊕ ⊞ □ = CATCH BASIN/DI
 - ⊕ □ = EXISTING THROAT DI
 - I = MARKER POST
 - ⊗ = UTILITY POLE
 - ⊗/I = UTIL. POLE W/UNDERGROUND UTIL.
 - ⌌ = DRIVE

PAVING PROJECT LAYOUT SHEET #16

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99ci90.dgn		
PRF FILE	p99ci90i16.i	DATE PLOTTED	12-DEC-2008 03
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	25	OF	37 SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 42+00 TO 72+00
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 42+00 TO 72+00
 (WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)



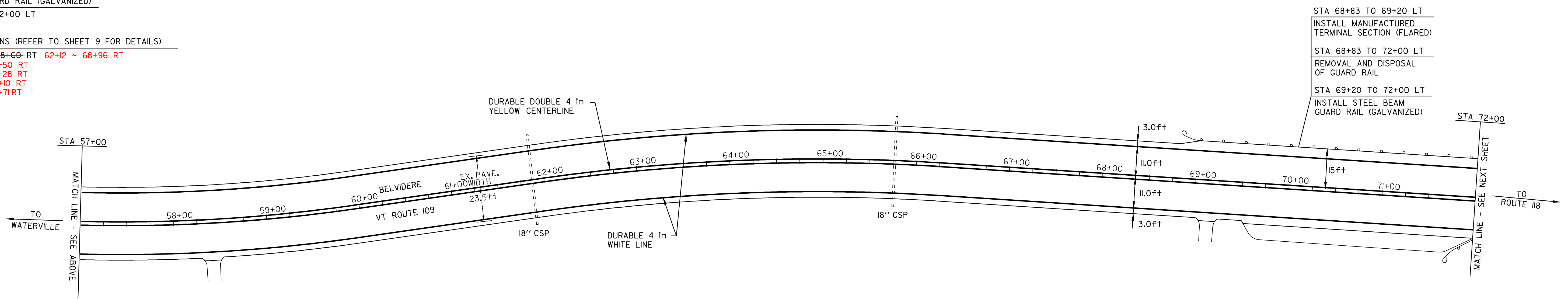
REMOVAL AND DISPOSAL OF GUARD RAIL
 STA 68+83 TO 72+00 LT

MANUFACTURED TERMINAL SECTION (FLARED)
 STA 68+83 TO 69+20 LT

STEEL BEAM GUARD RAIL (GALVANIZED)
 STA 69+20 TO 72+00 LT

DITCHING LOCATIONS (REFER TO SHEET 9 FOR DETAILS)

STA 62+00 TO 68+60 RT 62+12 ~ 68+96 RT
 42+65 ~ 43+50 RT
 46+43 ~ 47+28 RT
 47+70 ~ 50+10 RT
 69+38 ~ 70+71 RT



STA 68+83 TO 69+20 LT
 INSTALL MANUFACTURED
 TERMINAL SECTION (FLARED)
 STA 68+83 TO 72+00 LT
 REMOVAL AND DISPOSAL
 OF GUARD RAIL
 STA 69+20 TO 72+00 LT
 INSTALL STEEL BEAM
 GUARD RAIL (GALVANIZED)

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 #17

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99cl90.dgn		
PRF FILE	p99cl90l17.1	DATE PLOTTED	12-DEC-2008 09
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	26	OF	37 SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 72+00 TO 74+31 SOLID LT & DASHED RT
 STA 74+31 TO 80+78 SOLID LT & DASHED RT
 STA 80+78 TO 81+84 SOLID LT & DASHED RT
 STA 81+84 TO 87+75 DASHED LT & SOLID RT
 STA 87+75 TO 94+40 SOLID LT & DASHED RT
 STA 94+40 TO 95+40 DASHED
 STA 95+40 TO 102+00 DASHED LT & SOLID RT

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 72+00 TO 102+00 SOLID LT&RT
 REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S
 STA 99+50 RT

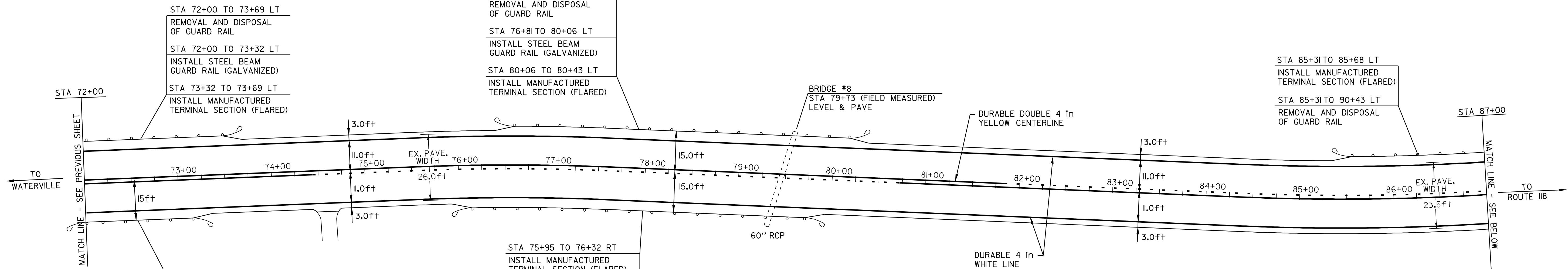
REMOVAL AND DISPOSAL OF GUARD RAIL
 STA 71+72 TO 73+38 RT
 STA 72+00 TO 73+69 LT
 STA 75+95 TO 79+94 RT
 STA 76+44 TO 80+42 LT
 STA 85+31 TO 90+43 LT

MANUFACTURED TERMINAL SECTION (FLARED)
 STA 71+72 TO 72+09 RT
 STA 73+00 TO 73+38 RT
 STA 73+32 TO 73+69 LT
 STA 75+95 TO 76+32 RT
 STA 76+44 TO 76+81 LT
 STA 79+57 TO 79+94 RT
 STA 80+06 TO 80+43 LT
 STA 85+31 TO 85+68 LT
 STA 90+06 TO 90+43 LT

STEEL BEAM GUARD RAIL (GALVANIZED)
 STA 72+09 TO 73+00 RT
 STA 72+00 TO 73+32 LT
 STA 76+32 TO 79+57 RT
 STA 76+81 TO 80+06 LT
 STA 85+68 TO 90+06 LT

STA 76+44 TO 76+81 LT
 INSTALL MANUFACTURED TERMINAL SECTION (FLARED)
 STA 76+44 TO 80+42 LT
 REMOVAL AND DISPOSAL OF GUARD RAIL
 STA 76+81 TO 80+06 LT
 INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)
 STA 80+06 TO 80+43 LT
 INSTALL MANUFACTURED TERMINAL SECTION (FLARED)

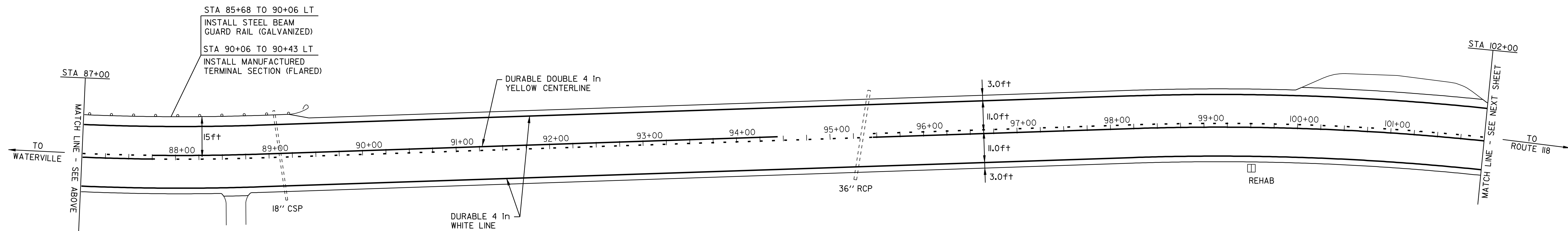
STA 85+31 TO 85+68 LT
 INSTALL MANUFACTURED TERMINAL SECTION (FLARED)
 STA 85+31 TO 90+43 LT
 REMOVAL AND DISPOSAL OF GUARD RAIL



STA 71+72 TO 72+09 RT
 INSTALL MANUFACTURED TERMINAL SECTION (FLARED)
 STA 71+72 TO 73+38 RT
 REMOVAL AND DISPOSAL OF GUARD RAIL
 STA 72+09 TO 73+00 RT
 INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)
 STA 73+00 TO 73+38 RT
 INSTALL MANUFACTURED TERMINAL SECTION (FLARED)

STA 75+95 TO 76+32 RT
 INSTALL MANUFACTURED TERMINAL SECTION (FLARED)
 STA 75+95 TO 79+94 RT
 REMOVAL AND DISPOSAL OF GUARD RAIL
 STA 76+32 TO 79+57 RT
 INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)
 STA 79+57 TO 79+94 RT
 INSTALL MANUFACTURED TERMINAL SECTION (FLARED)

DITCHING LOCATIONS
 80+15 ~ 80+82 RT
 81+12 ~ 82+04 RT
 89+18 ~ 89+46 RT
 92+66 ~ 93+19 RT
 99+31 ~ 99+80 RT
 101+70 ~ 102+68 RT



STA 85+68 TO 90+06 LT
 INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)
 STA 90+06 TO 90+43 LT
 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
 - ⊗/I UTIL. POLE W/UNDERGROUND UTIL.
 - ⌌ DRIVE

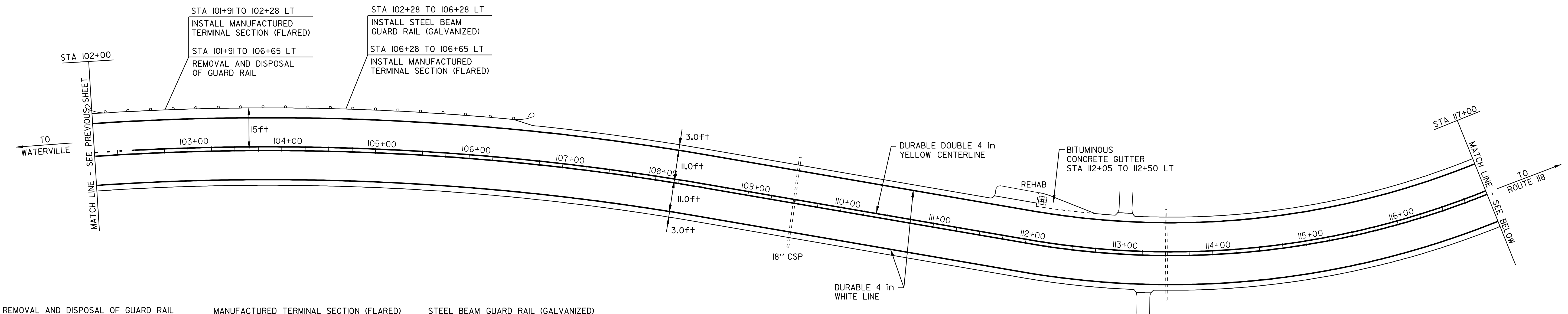
PAVING PROJECT LAYOUT SHEET #18

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99ci90.dgn		
PRF FILE	p99ci90i8.1	DATE PLOTTED	12-DEC-2008 09
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	27	OF	37 SHEETS

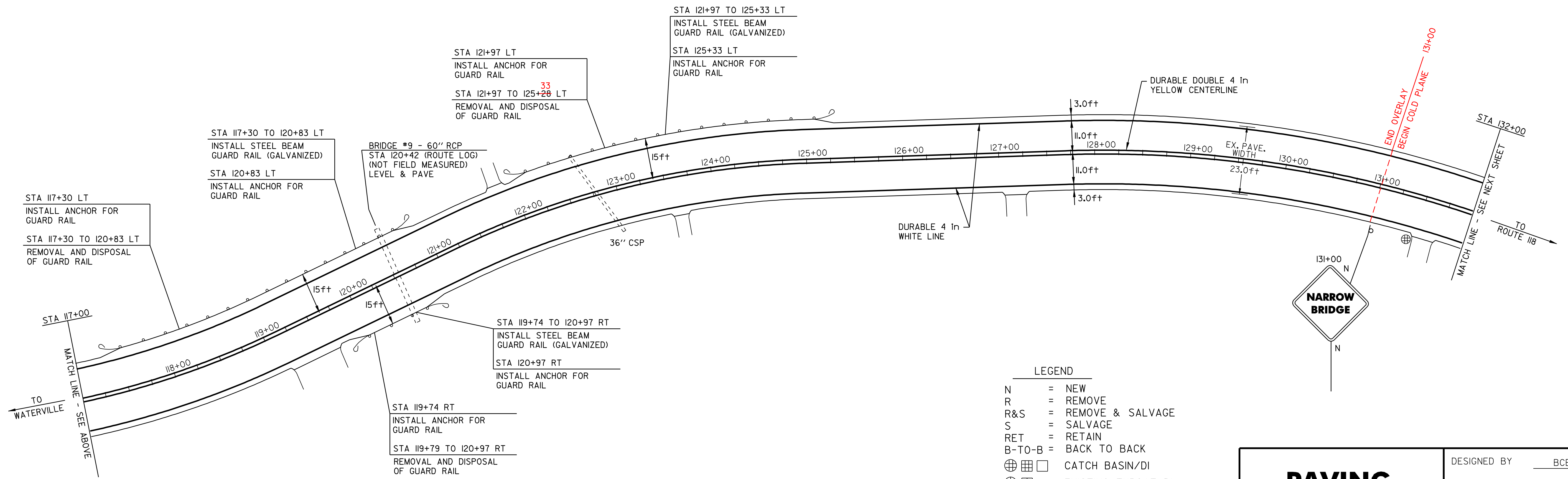
TEMPORARY AND DURABLE 4 in YELLOW LINE
 STA 102+00 TO 102+43 DASHED LT & SOLID RT
 STA 102+43 TO 132+00 SOLID LT&RT

TEMPORARY AND DURABLE 4 in WHITE LINE
 STA 102+00 TO 132+00 SOLID LT&RT

REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S
 STA 112+09 LT



- | | | |
|---|--|---|
| REMOVAL AND DISPOSAL OF GUARD RAIL
STA 101+91 TO 106+65 LT
STA 117+30 TO 120+83 LT
STA 119+79 TO 120+97 RT
STA 121+97 TO 125+28 LT | MANUFACTURED TERMINAL SECTION (FLARED)
STA 101+91 TO 102+28 LT
STA 106+28 TO 106+65 LT | STEEL BEAM GUARD RAIL (GALVANIZED)
STA 102+28 TO 106+28 LT
STA 117+30 TO 120+83 LT
STA 119+74 TO 120+97 RT
STA 121+97 TO 125+33 LT |
| | ANCHOR FOR GUARD RAIL
STA 117+30 LT
STA 119+74 RT
STA 120+83 LT
STA 120+97 RT
STA 121+97 LT
STA 125+33 LT | DITCHING LOCATIONS (REFER TO SHEET 9 FOR DETAILS)
STA 114+00 TO 117+50 RT 113+65 ~ 117+71 RT
101+70 ~ 102+68 RT |
| | | BITUMINOUS CONCRETE GUTTER
STA 112+05 TO 112+50 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

PAVING PROJECT LAYOUT SHEET #19

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99c190.dgn		
PRF FILE	p99c190119.1	DATE PLOTTED	12-DEC-2008 09
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	28	OF	37 SHEETS

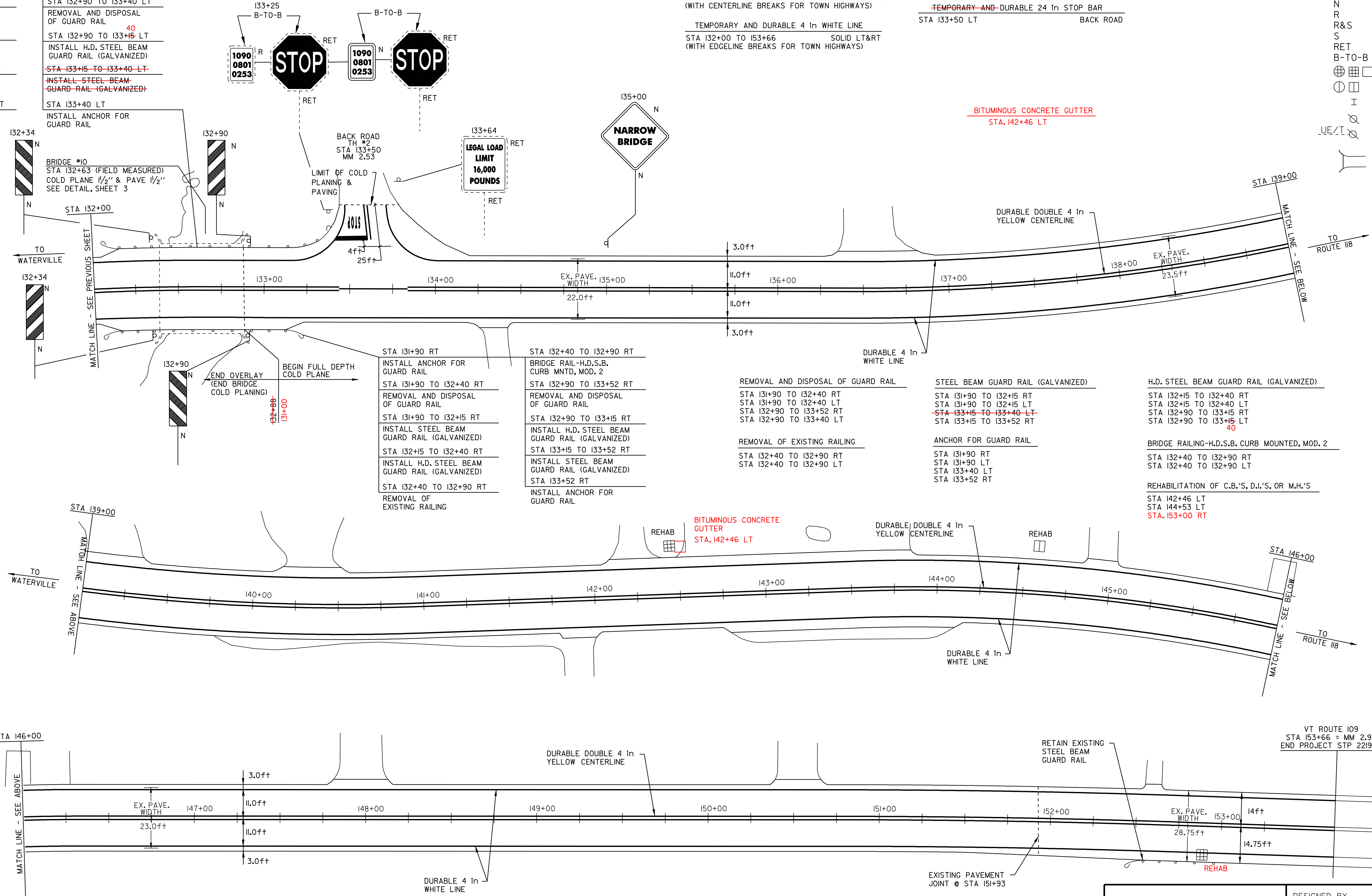
STA 131+90 LT	INSTALL ANCHOR FOR GUARD RAIL
STA 131+90 TO 132+40 LT	REMOVAL AND DISPOSAL OF GUARD RAIL
STA 131+90 TO 132+15 LT	INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)
STA 132+15 TO 132+40 LT	INSTALL H.D. STEEL BEAM GUARD RAIL (GALVANIZED)
STA 132+40 TO 132+90 LT	REMOVAL OF EXISTING RAILING
STA 132+90 TO 133+40 LT	BRIDGE RAIL-H.D.S.B. CURB MNTD, MOD. 2
STA 132+90 TO 133+40 LT	REMOVAL AND DISPOSAL OF GUARD RAIL
STA 132+90 TO 133+15 LT	INSTALL H.D. STEEL BEAM GUARD RAIL (GALVANIZED)
STA 132+15 TO 133+40 LT	INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)
STA 133+40 LT	INSTALL ANCHOR FOR GUARD RAIL

TEMPORARY AND DURABLE 4 In YELLOW LINE	STA 132+00 TO 153+66	SOLID LT&RT
	STA 133+50	DOUBLE SOLID LT
		(WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)
TEMPORARY AND DURABLE 4 In WHITE LINE	STA 132+00 TO 153+66	SOLID LT&RT
		(WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE LETTER OR SYMBOL	STA 133+50 LT	"STOP"
TEMPORARY AND DURABLE 24 In STOP BAR	STA 133+50 LT	BACK ROAD

REMOVING SIGNS	I
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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



BRIDGE #10	STA 132+63 (FIELD MEASURED)
	COLD PLANE 1/2" & PAVE 1/2"
	SEE DETAIL, SHEET 3

STA 131+90 RT	INSTALL ANCHOR FOR GUARD RAIL
STA 131+90 TO 132+40 RT	REMOVAL AND DISPOSAL OF GUARD RAIL
STA 131+90 TO 132+15 RT	INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)
STA 132+15 TO 132+40 RT	INSTALL H.D. STEEL BEAM GUARD RAIL (GALVANIZED)
STA 132+40 TO 132+90 RT	REMOVAL OF EXISTING RAILING
STA 132+90 TO 133+40 RT	BRIDGE RAIL-H.D.S.B. CURB MNTD, MOD. 2

STA 132+90 TO 133+52 RT	REMOVAL AND DISPOSAL OF GUARD RAIL
STA 132+90 TO 133+15 RT	INSTALL H.D. STEEL BEAM GUARD RAIL (GALVANIZED)
STA 133+15 TO 133+52 RT	INSTALL STEEL BEAM GUARD RAIL (GALVANIZED)
STA 133+52 RT	INSTALL ANCHOR FOR GUARD RAIL

REMOVAL AND DISPOSAL OF GUARD RAIL	STA 131+90 TO 132+40 RT
REMOVAL AND DISPOSAL OF GUARD RAIL	STA 131+90 TO 132+40 LT
REMOVAL AND DISPOSAL OF GUARD RAIL	STA 132+90 TO 133+52 RT
REMOVAL AND DISPOSAL OF GUARD RAIL	STA 132+90 TO 133+40 LT
REMOVAL OF EXISTING RAILING	STA 132+40 TO 132+90 RT
REMOVAL OF EXISTING RAILING	STA 132+40 TO 132+90 LT
ANCHOR FOR GUARD RAIL	STA 131+90 RT
ANCHOR FOR GUARD RAIL	STA 131+90 LT
ANCHOR FOR GUARD RAIL	STA 133+40 LT
ANCHOR FOR GUARD RAIL	STA 133+52 RT

H.D. STEEL BEAM GUARD RAIL (GALVANIZED)	STA 132+15 TO 132+40 RT
H.D. STEEL BEAM GUARD RAIL (GALVANIZED)	STA 132+15 TO 132+40 LT
H.D. STEEL BEAM GUARD RAIL (GALVANIZED)	STA 132+90 TO 133+15 RT
H.D. STEEL BEAM GUARD RAIL (GALVANIZED)	STA 132+90 TO 133+15 LT
BRIDGE RAILING-H.D.S.B. CURB MOUNTED, MOD. 2	STA 132+40 TO 132+90 RT
BRIDGE RAILING-H.D.S.B. CURB MOUNTED, MOD. 2	STA 132+40 TO 132+90 LT
REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S	STA 142+46 LT
REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S	STA 144+53 RT
REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S	STA 153+00 RT

REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S	STA 142+46 LT
REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S	STA 144+53 RT
REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S	STA 153+00 RT

REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S	STA 142+46 LT
REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S	STA 144+53 RT
REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S	STA 153+00 RT

PAVING PROJECT LAYOUT SHEET #20

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99c190.dgn		
PRF FILE	p99c190120.1	DATE PLOTTED	12-DEC-2008 09
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	29	OF	37 SHEETS

VT ROUTE 109
 STA 153+66 = MM 2.910
 END PROJECT STP 2219(1)S

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST	NO. OF POSTS	NEW SIGN POSTS																REMARKS	SIGN DETAIL							
		E	A	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	1.2	2.0	3.0	1.75	2.0	2.5	A SECTION	B SECTION	3.0	4.0	4.0 MOD.	FOUNDATION	3.0	3.5				4.0	5.0	FTG. SIZE		WEIGHT	POST SIZE
																																24"	30"		
CAMBRIDGE 0+66 LT		1		6	10	0.42				1																							MOUNT NEW MILE MARKER BACK TO BACK WITH RETAINED STOP SIGN.	E-138	
146+01 LT		1		30	30	6.25				1		X	X																				BACK TO BACK	E-143 E-138	
146+21 RT		1		24	30	5.0				1		X	X																				REFER TO STANDARD E-121 FOR PLACEMENT.	E-141	
182+50 RT		1		30	30	6.25				1		X	X																					E-154	
183+76 LT		1		30	30	6.25				1		X	X																				BACK TO BACK	E-143 E-138	
183+96 LT		1		24	30	5.0				1		X	X																				REFER TO STANDARD E-121 FOR PLACEMENT.	E-141	
187+42 LT		1		12	36	3.0				1		X	X																					E-120	
187+42 RT		1		12	36	3.0				1		X	X																					E-120	
188+27 RT		1		12	36	3.0				1		X	X																					E-120	
188+27 LT		1		12	36	3.0				1		X	X																					E-120	
WATERVILLE 0+58 RT		1		24	30	5.0				1		X	X																				REFER TO STANDARD E-121 FOR PLACEMENT.	E-141	
1+19 RT		1		30	30	6.25				1		X	X																				BACK TO BACK	E-143 E-138	

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST RETAIN	NO. OF POSTS	NEW SIGN POSTS																REMARKS	SIGN DETAIL							
		E	A	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	A	S	MOD.	FOUNDATION	3.0	4.0	5.0	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					3.0	4.0	4.0	3.0	3.5				4.0	5.0	24"	30"		

OPTION ITEMS																													
10+07 RT		1	24	30	5.0						1			X		X												REFER TO STANDARD E-121 FOR PLACEMENT.	E-141
10+47 RT		1	30	30	6.25						1			X		X											BACK TO BACK	E-143 E-138	
21+90 RT		1	24	30	5.0						1			X		X											REFER TO STANDARD E-121 FOR PLACEMENT. PLACE SALVAGED SPEED LIMIT SIGN ON LEGAL LOAD LIMIT SIGN	E-141	
22+10 RT		1	30	30	6.25						1			X		X											BACK TO BACK	E-143 E-138	
27+93 LT		1	30	30	6.25						1			X		X											BACK TO BACK	E-143 E-138	
28+33 LT		1	24	30	5.0						1			X		X											REFER TO STANDARD E-121 FOR PLACEMENT.	E-141	
31+59 RT		1	24	30	5.0						1			X		X											REFER TO STANDARD E-121 FOR PLACEMENT.	E-141	
31+79 RT		1	30	30	6.25						1			X		X												E-143 E-138	
41+01 RT		1	24	30	5.0						1			X		X											REFER TO STANDARD E-121 FOR PLACEMENT.	E-141	
41+21 RT		1	30	30	6.25						1			X		X												E-143 E-138	
45+07 RT		1	24	30	5.0						1			X		X											REFER TO STANDARD E-121 FOR PLACEMENT. PLACE SALVAGED SPEED LIMIT SIGN ON LEGAL LOAD LIMIT SIGN	E-141	
45+13 RT		1	30	30	6.25						1			X		X											BACK TO BACK	E-143 E-138	

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	70.02		2			180			180																			

TRAFFIC SIGN SUMMARY SHEET #2	PROJECT: CAMBRIDGE - BELVIDERE	PROJECT NO.: STP 2219(1)S
	DESIGN FILE NAME: p99cl90.dgn	PLOT DATE: 12-DEC-2008 09:54
	IPARM FILE NAME: p99cl90tss2.i	SURVEY DATE:
	SURVEYED BY: C.E.A., INC.	DRAWN BY: C.E.A., INC.
	SQUAD LEADER: C.E.A., INC.	SHEET: 31 OF 37

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST RETAIN	NO. OF POSTS	NEW SIGN POSTS																REMARKS	SIGN DETAIL					
		E	A	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	2.0	3.0	1.75	2.0	2.5	3.0	4.0	4.0 MOD.	FOUNDA-TION	3.0	3.5	4.0	5.0		FTG. SIZE			WEIGHT	POST SIZE	
																											1.12					2.0

OPTION ITEMS																														
49+45 LT		1	30	30	6.25																								BACK TO BACK	E-143
		1	6	10	0.42																								E-138	
50+65 LT		1	24	30	5.0																								REFER TO STANDARD E-121 FOR PLACEMENT.	E-141
65+90 LT		1	30	30	6.25																								BACK TO BACK	E-143
		1	6	10	0.42																								E-138	
66+10 LT		1	24	30	5.0																								REFER TO STANDARD E-121 FOR PLACEMENT.	E-141
94+60 RT		1	6	10	0.42																							MOUNT NEW MILE MARKER BACK TO BACK WITH RETAINED STOP SIGN.	E-138	
120+05 RT		1	24	30	5.0																								REFER TO STANDARD E-121 FOR PLACEMENT.	E-141
120+42 RT		1	30	30	6.25																								BACK TO BACK	E-143
		1	6	10	0.42																								E-138	
179+35 RT		1	30	30	6.25																									E-143
181+59 LT		1	30	30	6.25																								BACK TO BACK	E-143
		1	6	10	0.42																								E-138	
181+79 LT		1	24	30	5.0																								REFER TO STANDARD E-121 FOR PLACEMENT.	E-141
198+65 LT		1	30	30	6.25																								BACK TO BACK	E-143
		1	6	10	0.42																								E-138	
198+85 LT		1	24	30	5.0																								REFER TO STANDARD E-121 FOR PLACEMENT. PLACE SALVAGED SPEED LIMIT SIGN ON LEGAL LOAD LIMIT SIGN	E-141

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	65.02		3			165			165																				

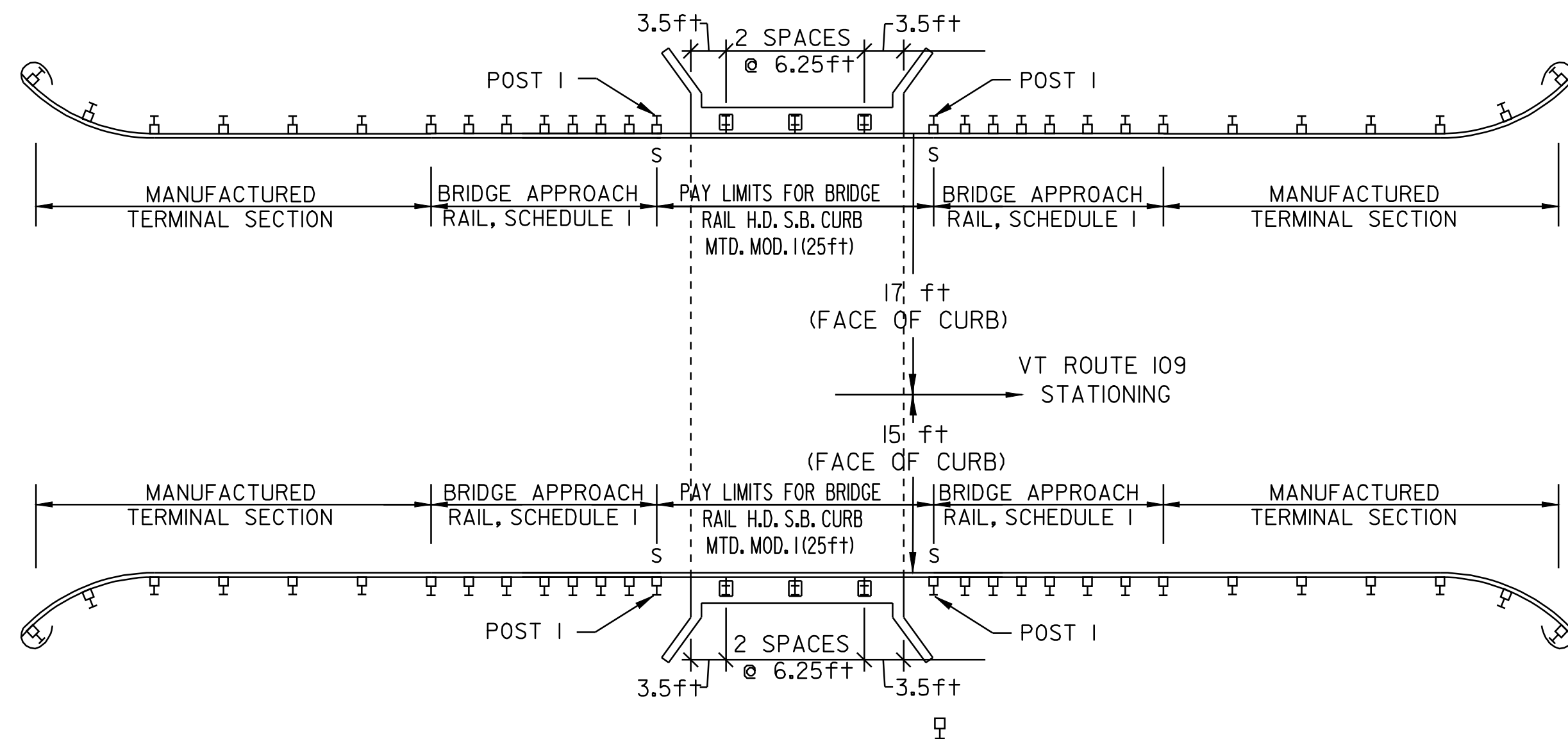
TRAFFIC SIGN SUMMARY SHEET #3	PROJECT: CAMBRIDGE - BELVIDERE	PROJECT NO.: STP 2219(1)S
	DESIGN FILE NAME: p99cl90.dgn	PLOT DATE: 12-DEC-2008 09:54
	IPARM FILE NAME: p99cl90tss3.l	SURVEY DATE:
	SURVEYED BY: C.E.A., INC.	DRAWN BY: C.E.A., INC.
	SQUAD LEADER: C.E.A., INC.	SHEET: 32 OF 37

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST RETAINED	NO. OF POSTS	NEW SIGN POSTS																				REMARKS	SIGN DETAIL	
		E	A	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	lb/ft	lb/ft	1.75	2.0	2.5	3.0	4.0	4.0 MOD.	FOUNDA-TION	3.0	3.5	4.0	5.0	FTG. SIZE					WEIGHT	POST SIZE
																										1.12	2.0					
OPTION ITEMS																																
220+55 LT		1	30	30	6.25				1			X		X														BACK TO BACK	E-143 E-138			
220+95 LT		1	24	30	5.0				1			X		X														REFER TO STANDARD E-121 FOR PLACEMENT.	E-141			
BELVIDERE 8+90 LT		1	6	10	0.42				1																			MOUNT NEW MILE MARKER BACK TO BACK WITH RETAINED STOP SIGN.	E-138			
21+48 RT		1	6	10	0.42				1																			MOUNT NEW MILE MARKER BACK TO BACK WITH RETAINED STOP SIGN.	E-138			
50+65 LT		1	6	10	0.42				1																			MOUNT NEW MILE MARKER BACK TO BACK WITH RETAINED STOP SIGN.	E-138			
131+00 RT		1	30	30	6.25				1			X		X															E-154			
132+34 LT		1	12	36	3.0				1			X		X															E-120			
132+34 RT		1	12	36	3.0				1			X		X															E-120			
132+90 RT		1	12	36	3.0				1			X		X															E-120			
132+90 LT		1	12	36	3.0				1			X		X															E-120			
133+25 LT		1	6	10	0.42				1																			MOUNT NEW MILE MARKER BACK TO BACK WITH RETAINED STOP SIGN.	E-138			
135+00 LT		1	30	30	6.25				1			X		X															E-154			

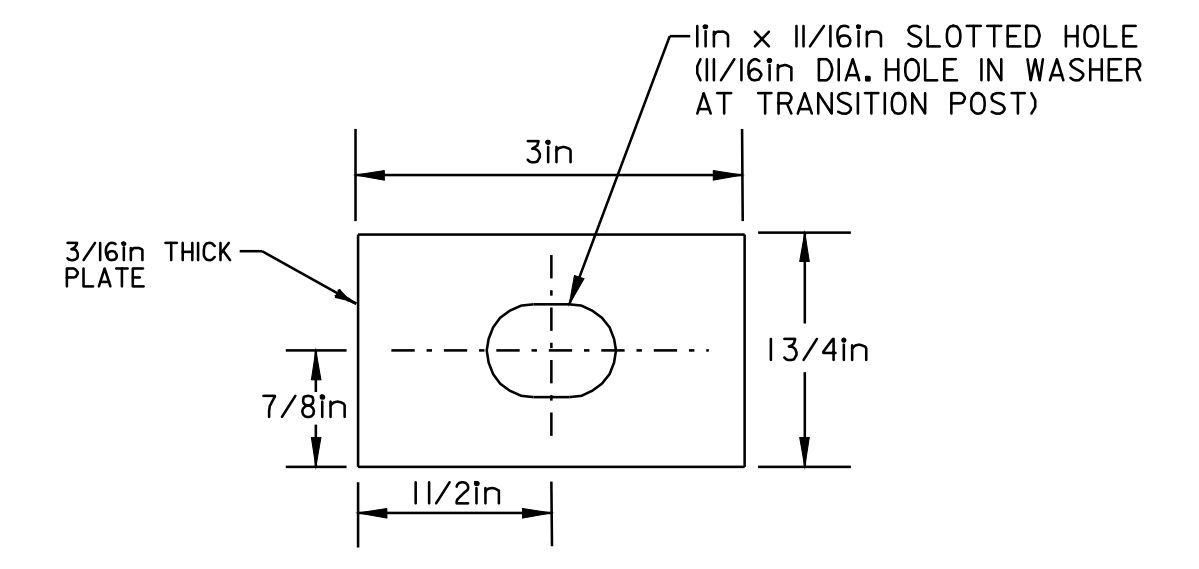
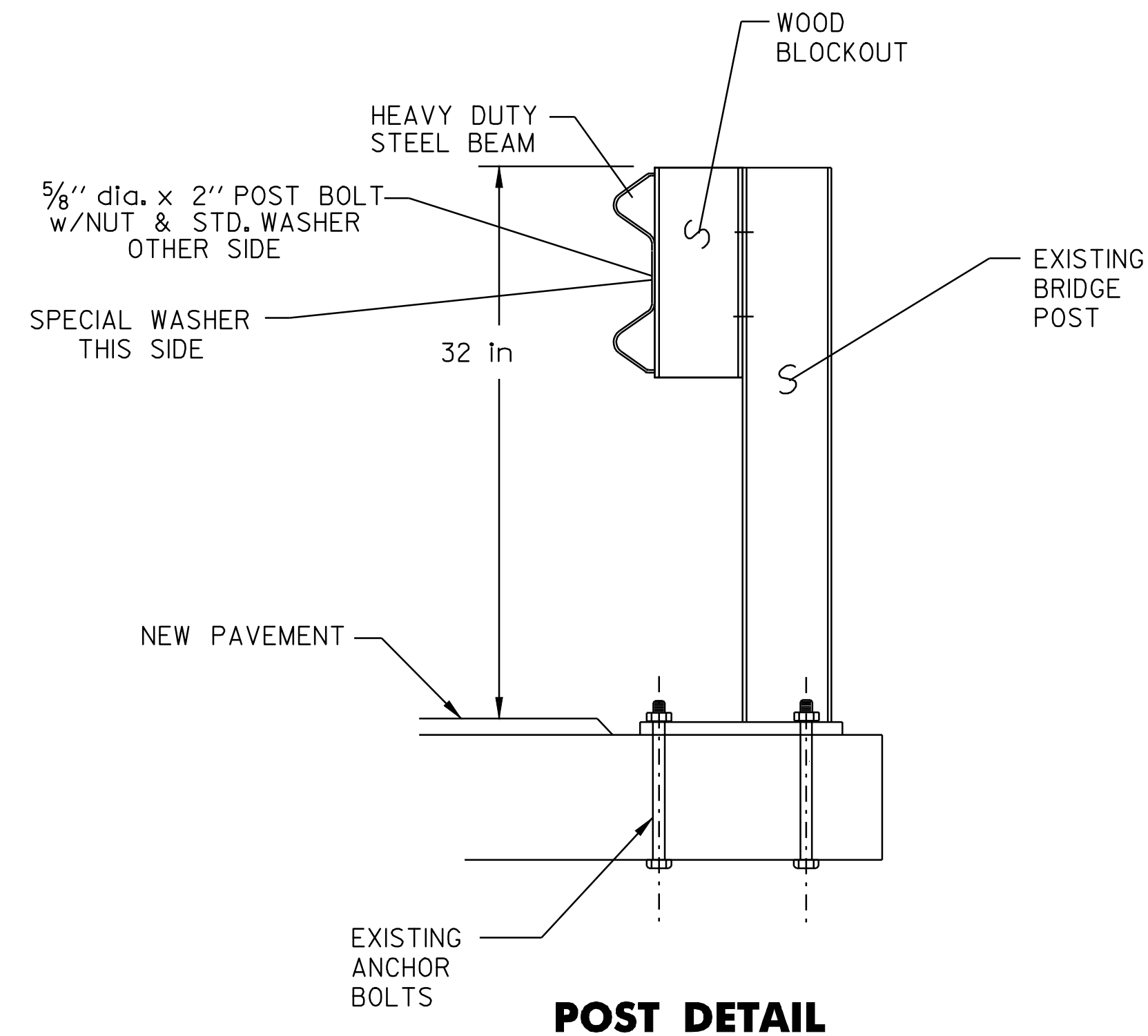
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."

	SF	SF	EA.	SF	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
SIGN SHEET #1	53.68																												
SIGN SHEET #2	70.02		2																										
SIGN SHEET #3	65.02		13																										
SIGN SHEET #4	37.85		1																										
PROJECT TOTALS	226.57		16																										

TRAFFIC SIGN SUMMARY SHEET #4	PROJECT: CAMBRIDGE - BELVIDERE	PROJECT NO.: STP 2219(1)5
	DESIGN FILE NAME: p99cl90.dgn	PLOT DATE: 12-DEC-2008 09:54
	IPARM FILE NAME: p99cl90+ss4.1	SURVEY DATE:
	SURVEYED BY: C.E.A., INC.	DRAWN BY: C.E.A., INC.
	SQUAD LEADER: C.E.A., INC.	SHEET: 33 OF 37



CAMBRIDGE - BRIDGE #2
STA 143+52 - MM 2.718
(FIELD MEASURED)

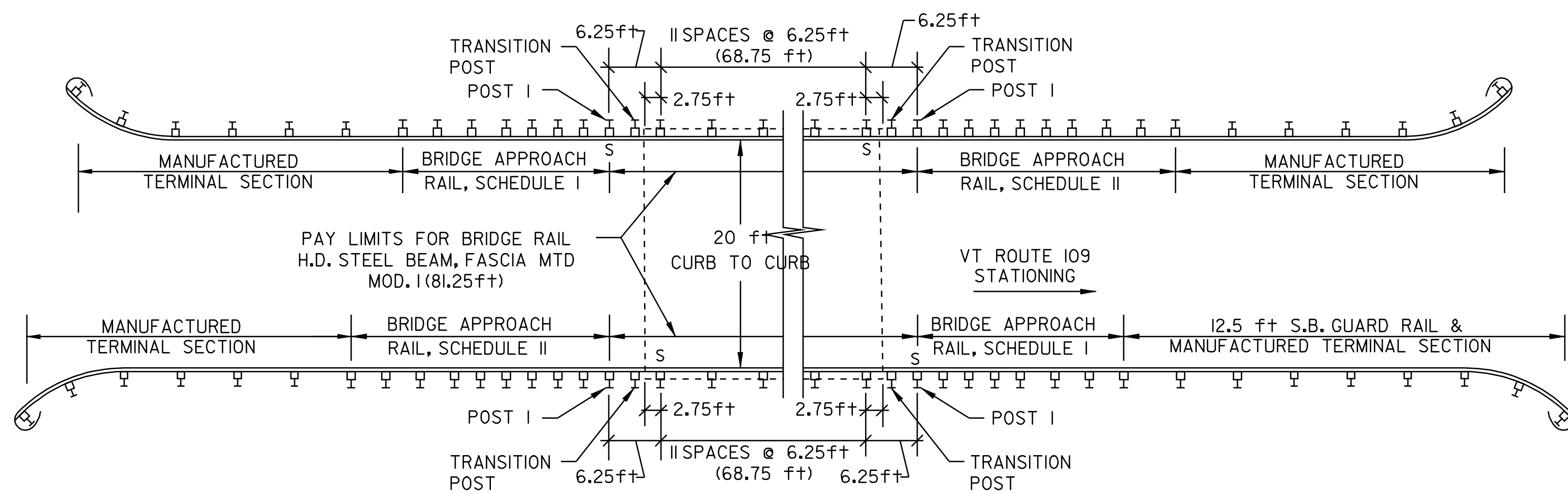


SPECIAL WASHER DETAIL
 (MATERIAL SHALL MEET AASHTO M270/M270 GRADE 345W)

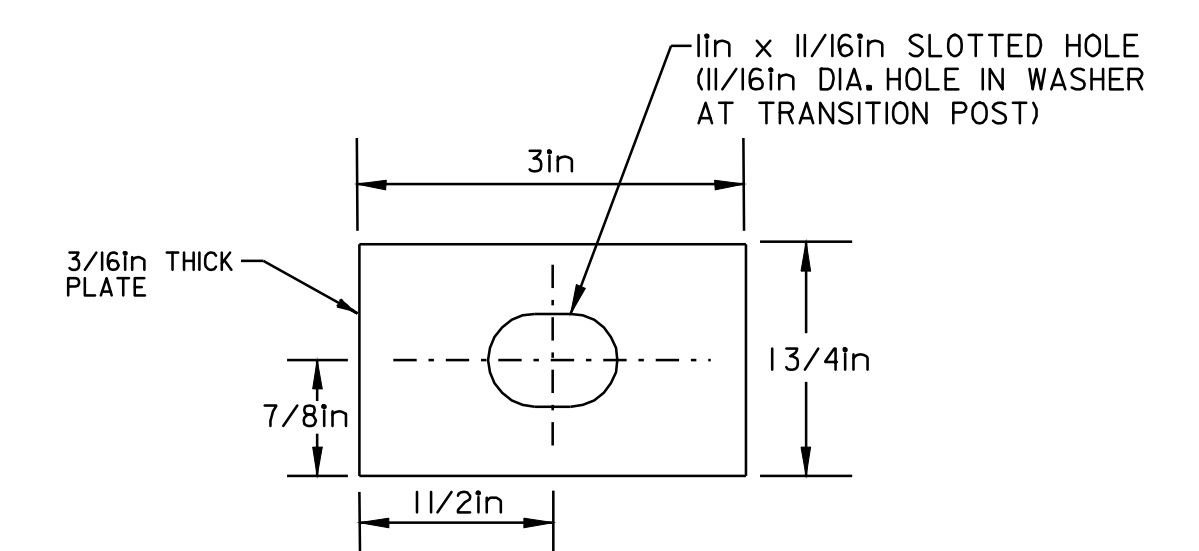
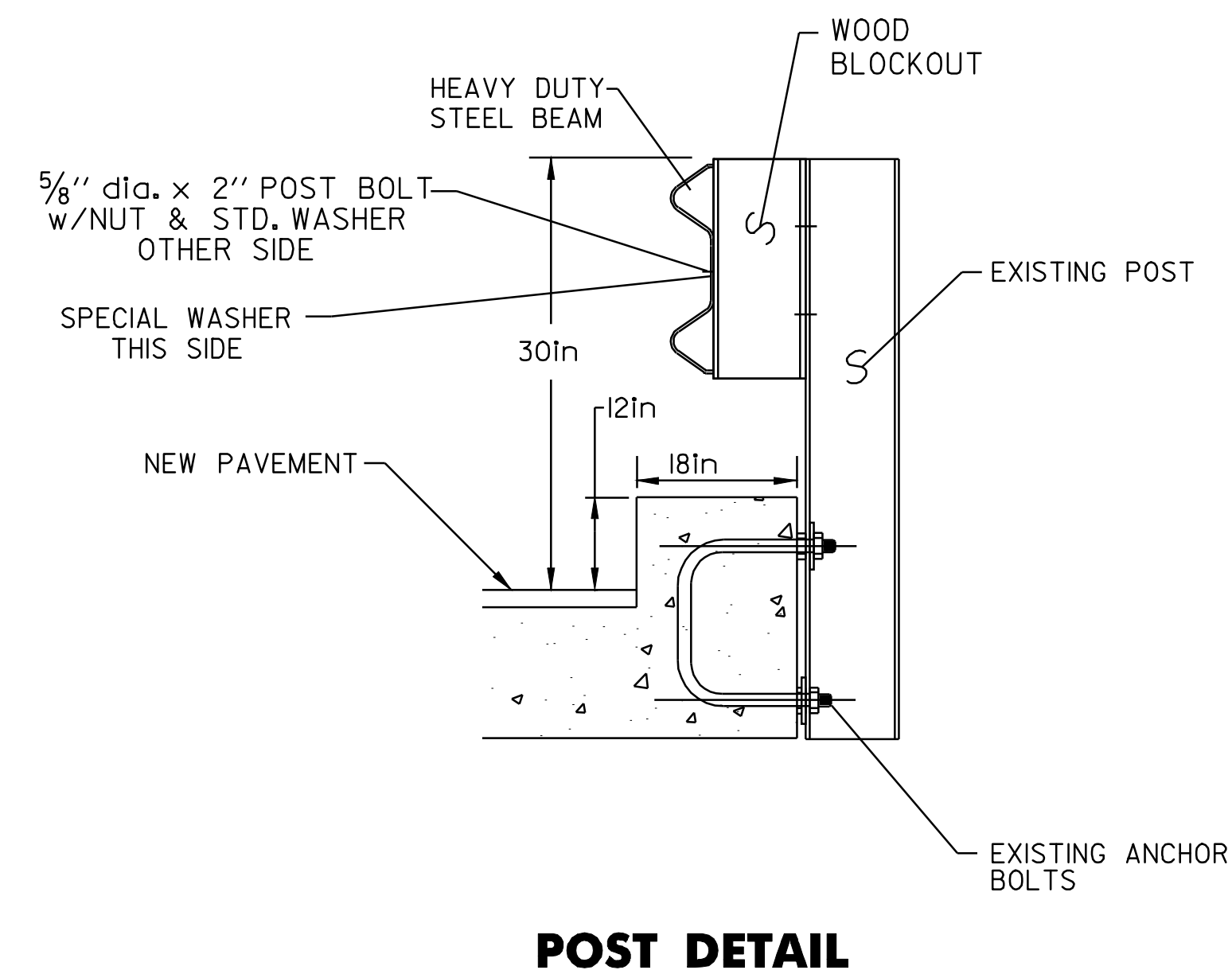
POST DETAILS

NOTES:

1. BOLTS, NUTS & WASHERS SHALL BE GALVANIZED AND CONFORM TO SECTION 714.05, 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 M270/M270 GRADE 345W (GRADE 50W) STEEL



CAMBRIDGE - BRIDGE #3
STA 187+85 - MM 3.559

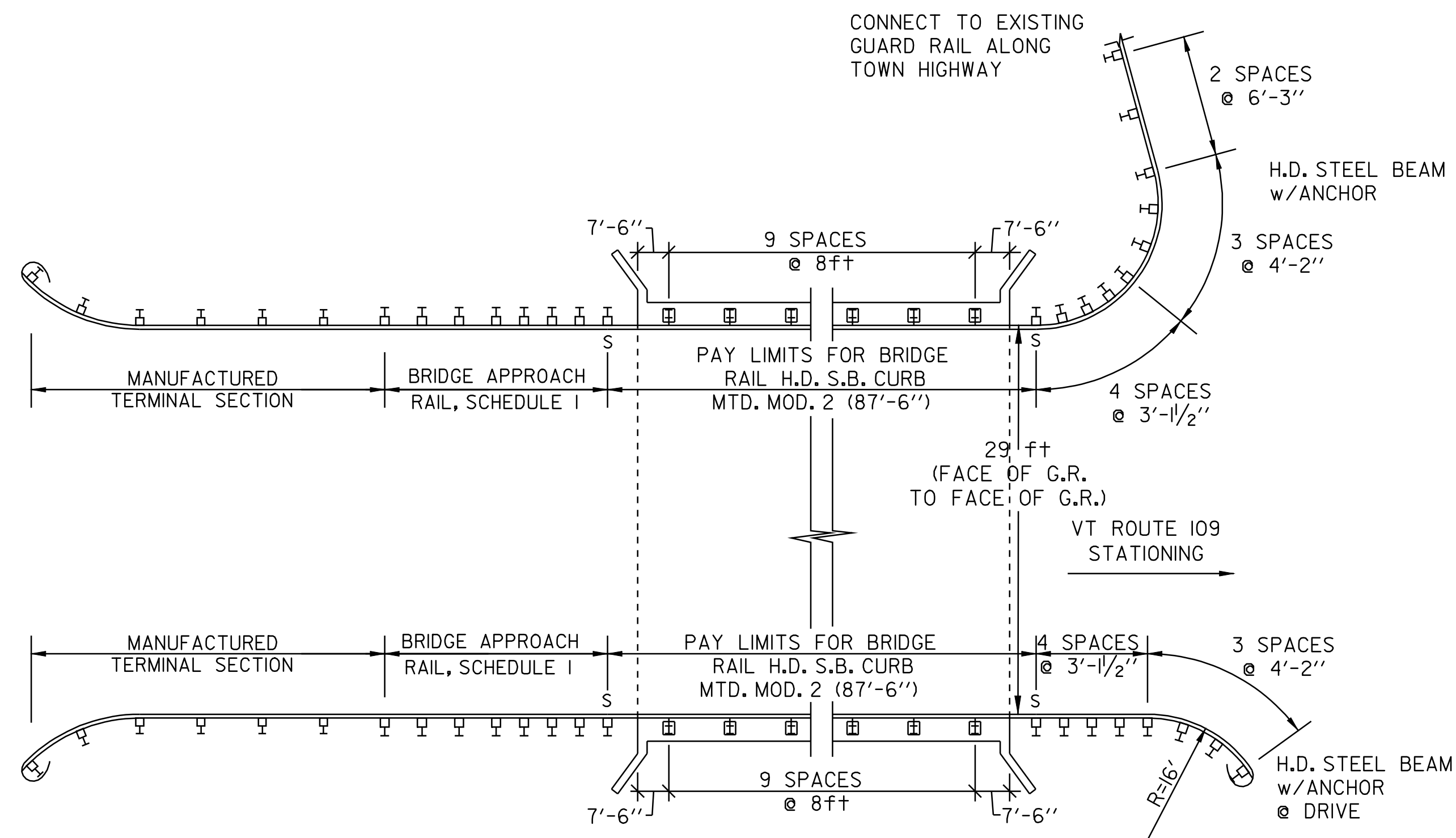


SPECIAL WASHER DETAIL
 (MATERIAL SHALL MEET AASHTO M270/M270 GRADE 345W)

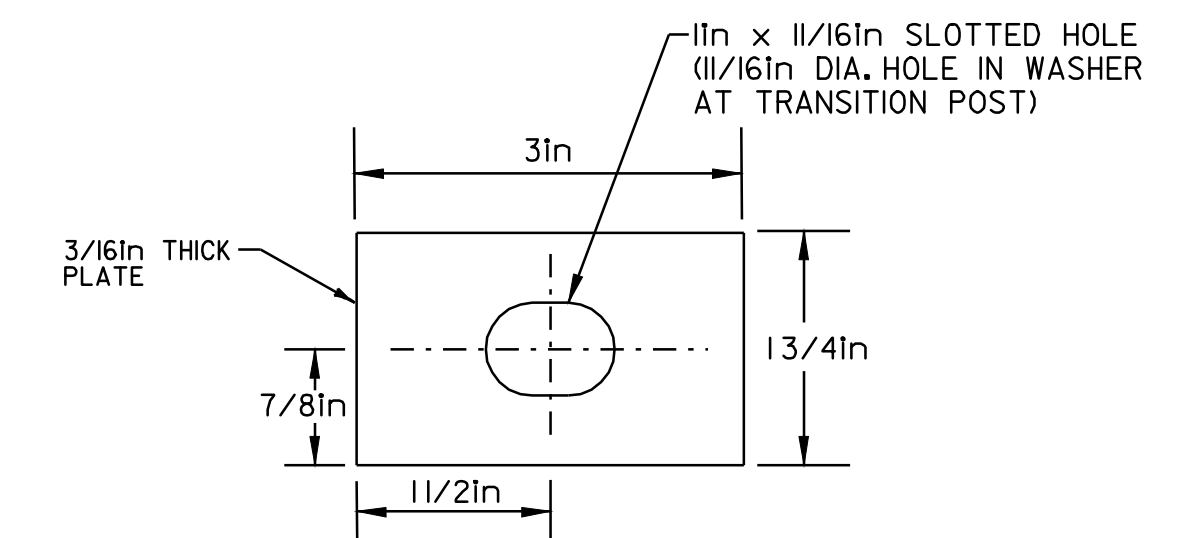
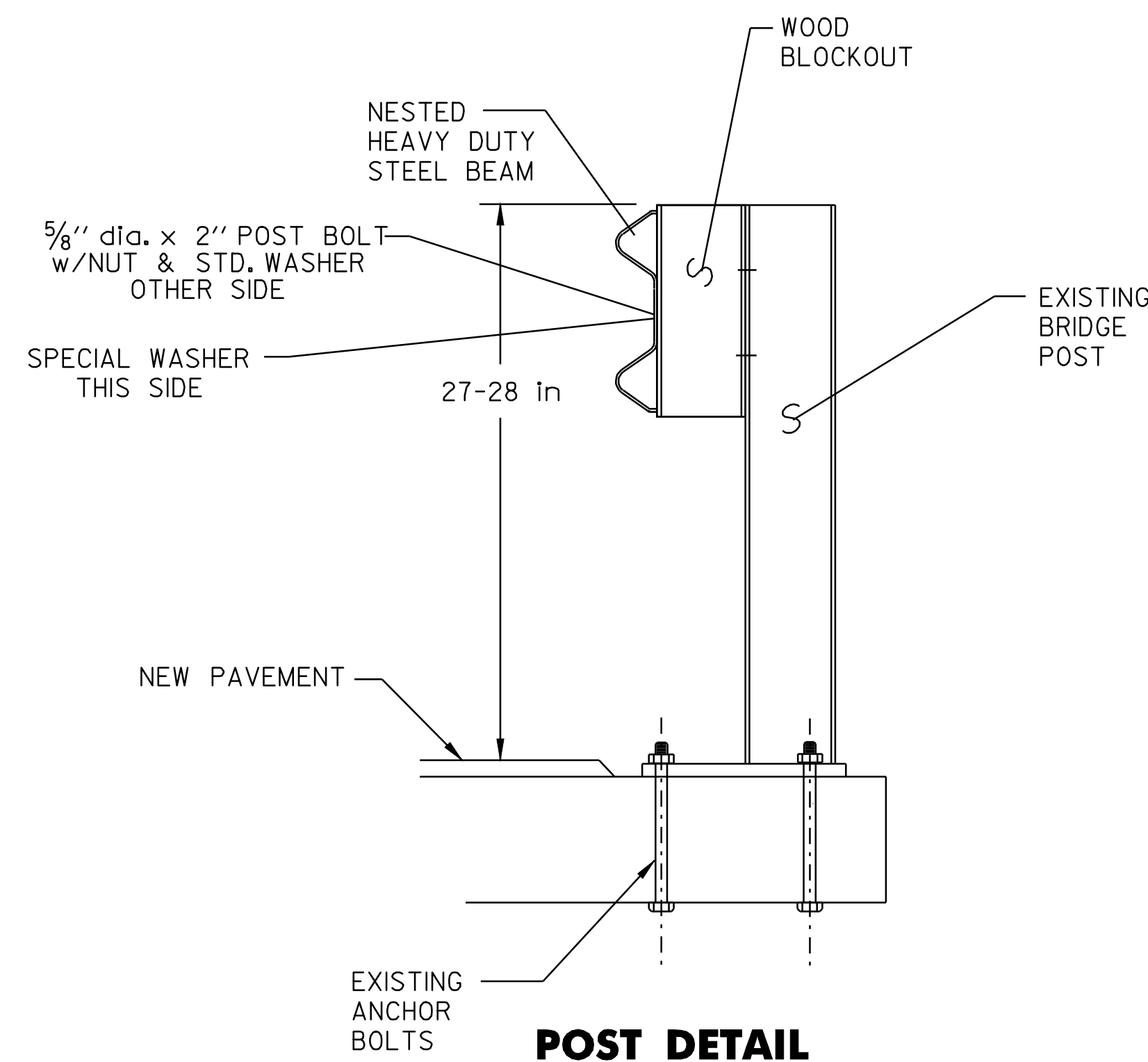
POST DETAIL

**BRIDGE
 DETAIL
 SHEET
 #2**

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99ci90.dgn		
PRF FILE	p99ci90bd2.1	DATE PLOTTED	12-DEC-2008 09
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	35	OF	37 SHEETS



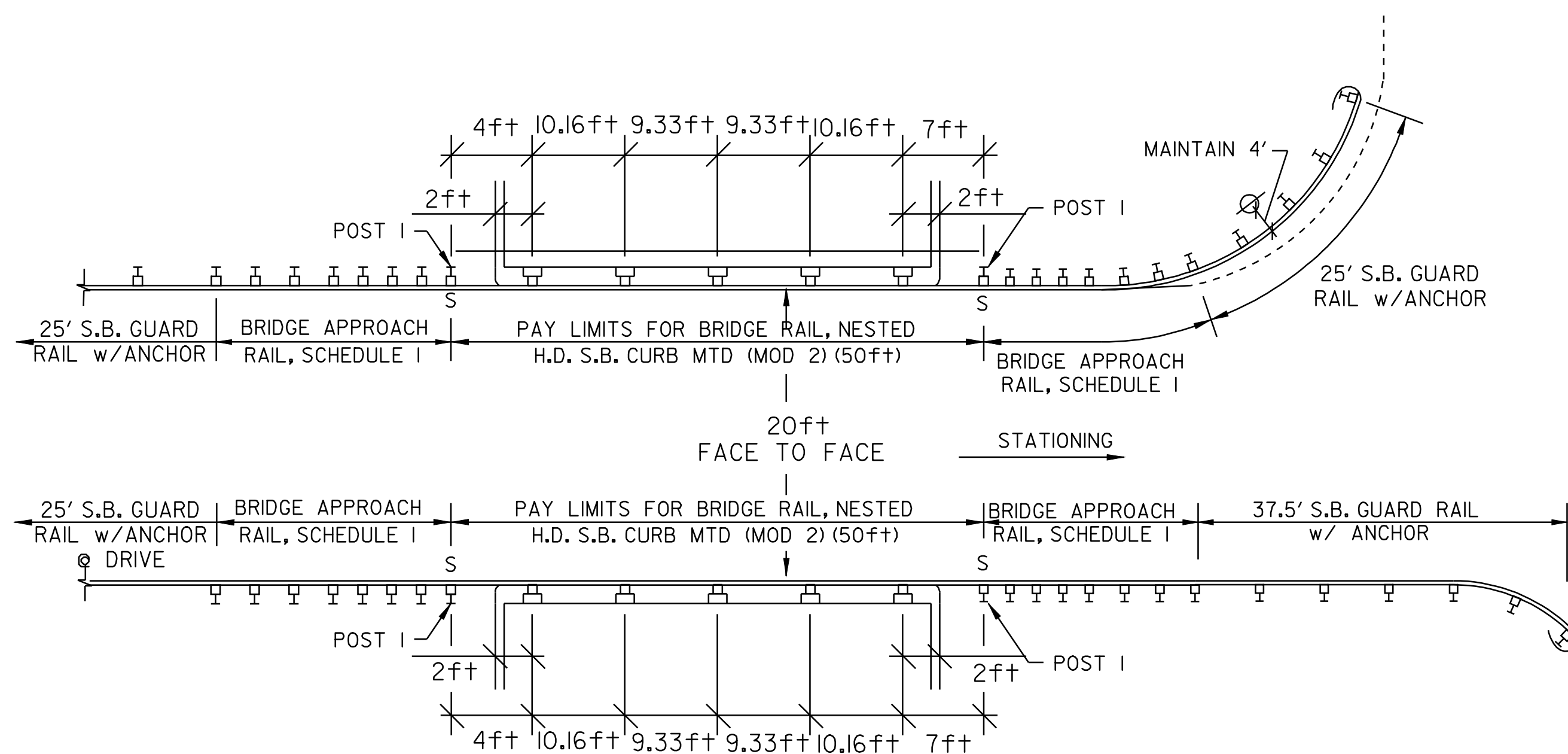
BELVIDERE - BRIDGE #7
STA 8+07 (ROUTE LOG) - MM 0.153
STA 7+99 (FIELD MEASURED)



SPECIAL WASHER DETAIL
(MATERIAL SHALL MEET AASHTO M270/M270 GRADE 345W)

POST DETAILS

- NOTES:
1. BOLTS, NUTS & WASHERS SHALL BE GALVANIZED AND CONFORM TO SECTION 714.05, 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 M270/M270 GRADE 345W (GRADE 50W) STEEL



BELVIDERE - BRIDGE #10
STA 132+63 (FIELD MEASURED) = MM 2.512

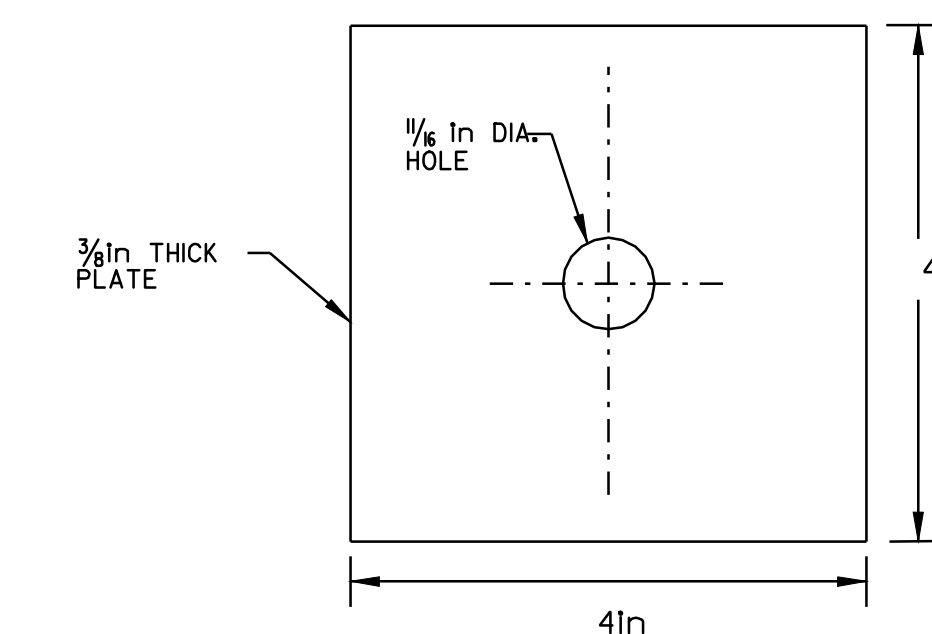
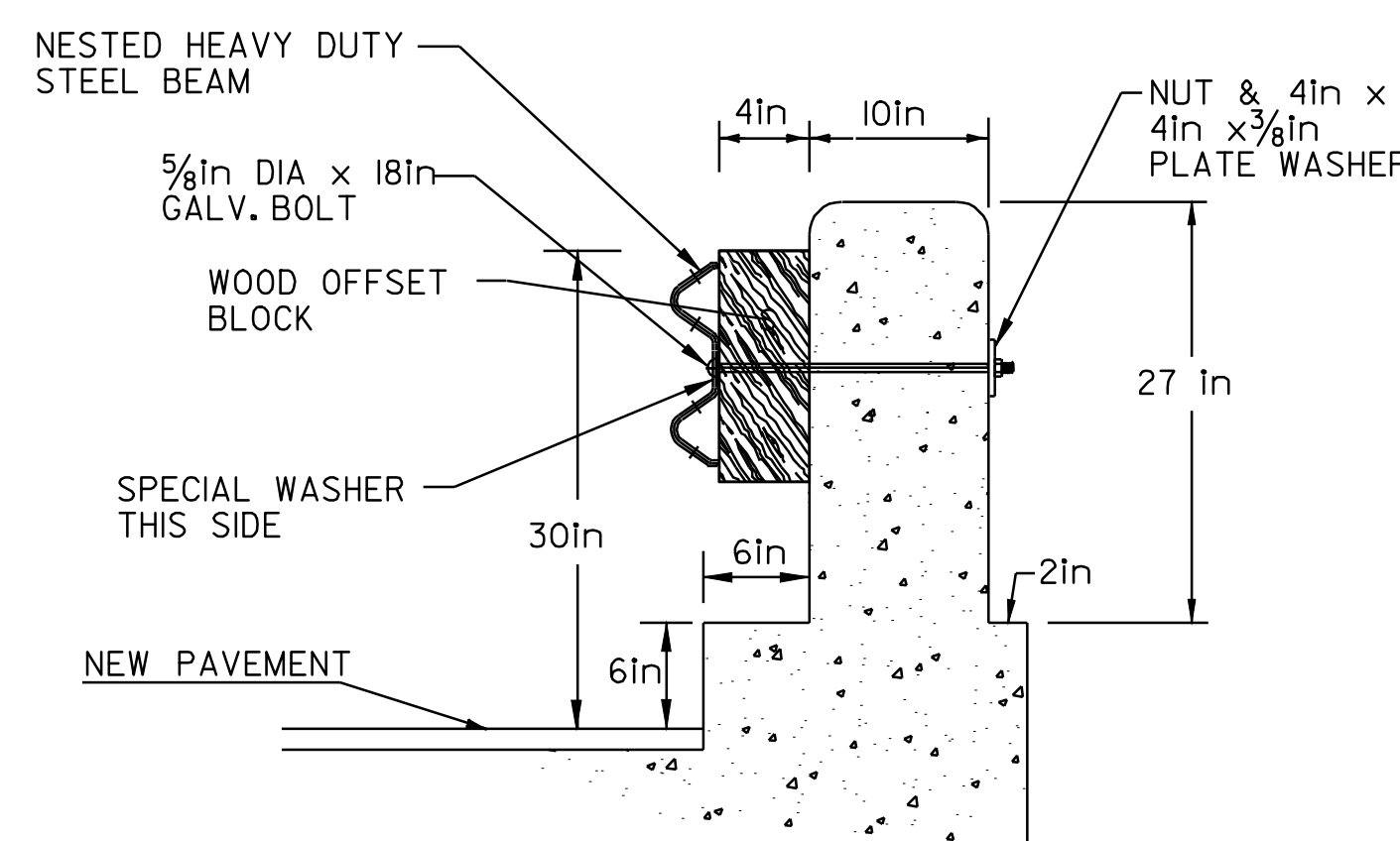
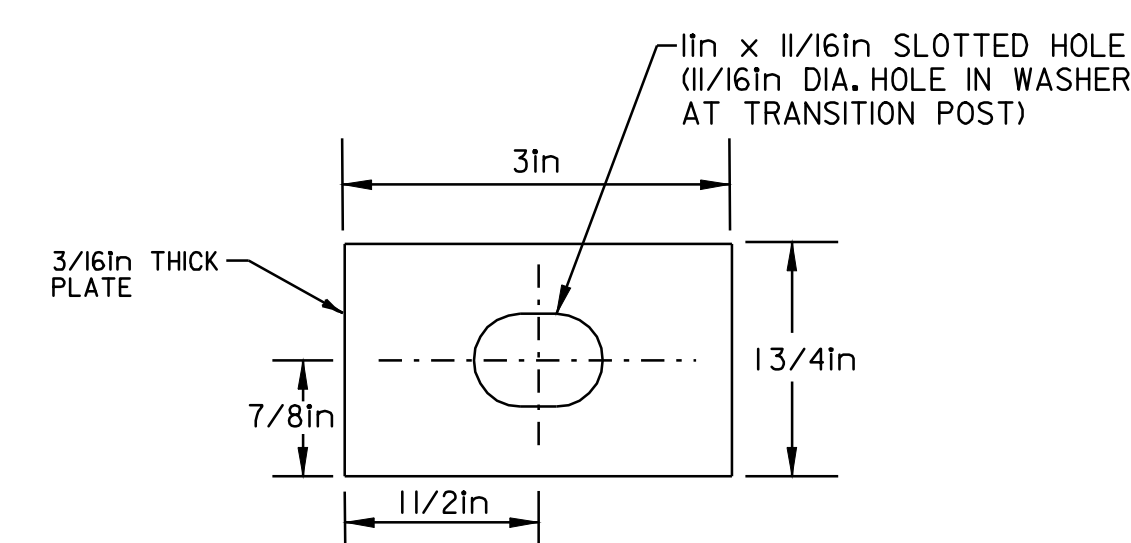


PLATE WASHER DETAIL
(MATERIAL SHALL MEET AASHTO M270/M270 GRADE 345W)

- NOTES: BOLTS, NUTS & WASHERS SHALL BE GALVANIZED AND CONFORM TO SECTION 714.05.



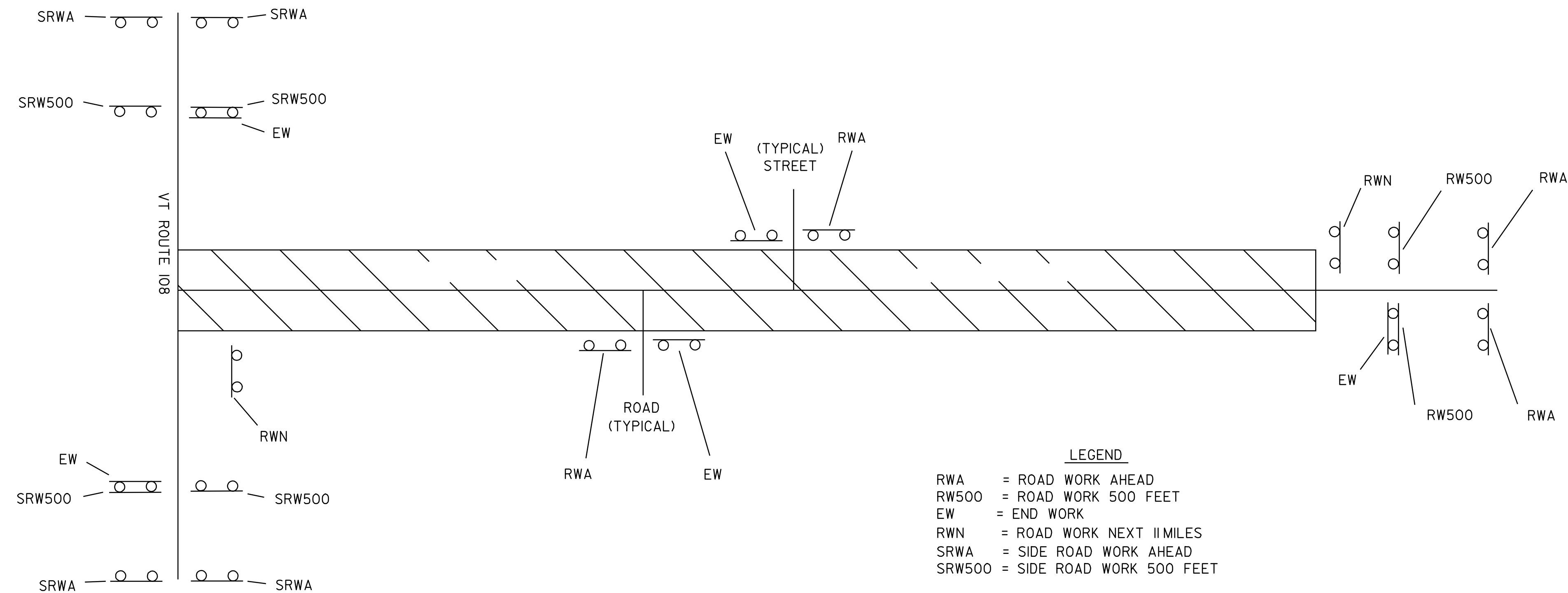
SPECIAL WASHER DETAIL
(MATERIAL SHALL MEET AASHTO M270/M270 GRADE 345W)

**BRIDGE
DETAIL
SHEET
#3**

DESIGNED BY	BCE/PJM	DATE	8-05
DRAWN BY	C.E.A., INC.	DATE	8-05
DESIGN FILE NO.	p99ci90.dgn		
PRF FILE	p99ci90bd3.1	DATE PLOTTED	12-DEC-2008 09:30
PROJ. NAME	CAMBRIDGE - BELVIDERE		
PROJ. NO.	STP 2219(1)S		
SHEET	36	OF	37 SHEETS

LIST OF
CONSTRUCTION SIGNS

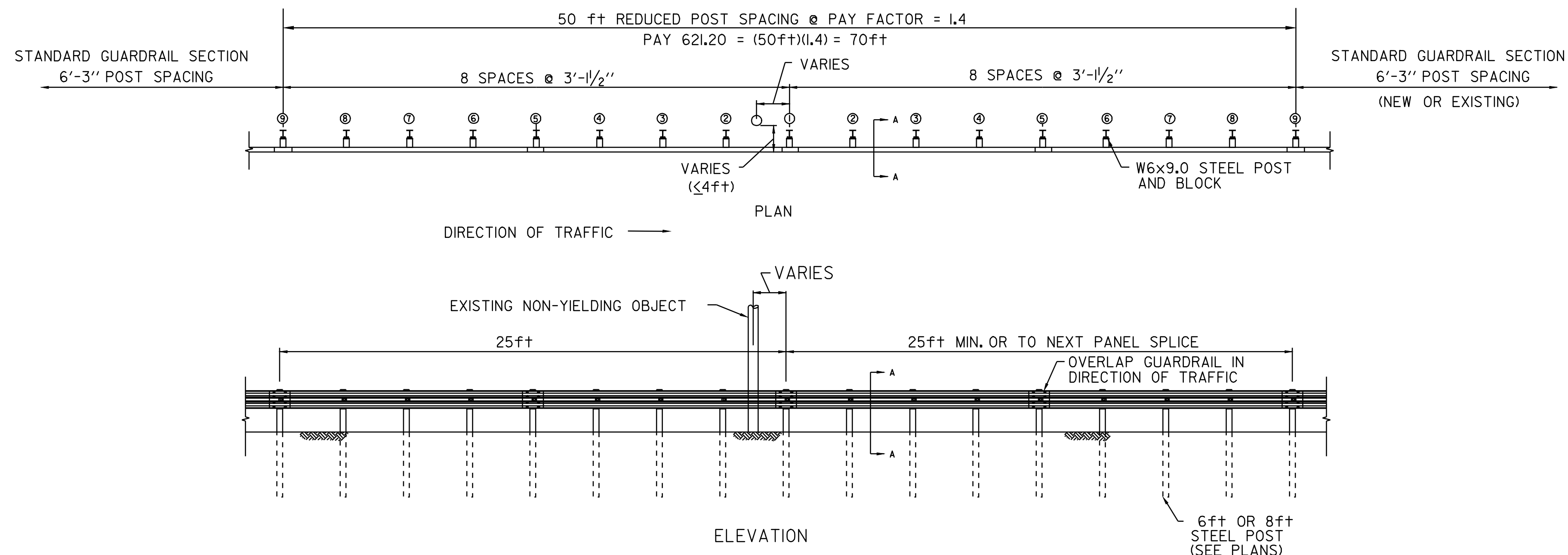
TOWN HIGHWAY	RWA	RW500	EW	RWN	SRWA	SRW500
CAMBRIDGE						
BEGIN PROJECT			2		4	4
TH#23						
QUINN ROAD - TH#14						
MARSH ROAD - TH#15						
WATERVILLE						
HOGBACK ROAD - TH#4						
PLOT ROAD - TH#1						
OAKES ROAD - TH#18						
CHURCH STREET - TH#20						
TH#27						
FOX HILL - TH#28						
BEALS HILL - TH#12						
LAPLAND ROAD - TH#4						
BURT ROAD - TH#13						
MONTGOMERY ROAD - TH#14						
CODDING HOLLOW ROAD - TH#3						
WOODARD ROAD - TH#26						
MAXFIELD ROAD - TH#9						
SMITHVILLE ROAD - TH#7						
BELVIDERE						
BACK ROAD - TH#3						
LARAWAY MOUNTAIN ROAD - TH#7						
MORGAN BRIDGE ROAD - TH#2						
BACK ROAD - TH#3						
END PROJECT	2	2				
TOTALS	23	2	24	1	4	4



CONSTRUCTION APPROACH SIGNING

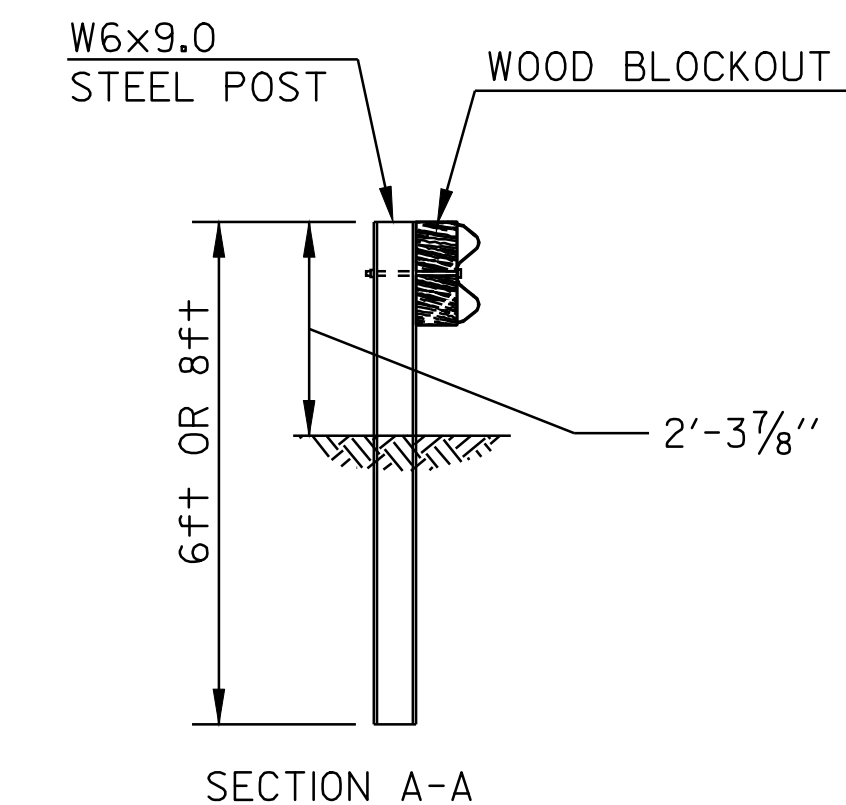
SEE STD. E-100 FOR SIGN PLACEMENT
RESIDENT ENGINEER, AT HIS OR HER DISCRETION, SHALL ELIMINATE CONSTRUCTION APPROACH SIGNING AT DEAD END LOCATIONS.

NOTE:
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.



NON-YIELDING OBJECT APPROACH DETAIL

WATERVILLE
STA 35+15 LT
~~STA 36+22 LT~~
STA 37+42 LT
STA 92+11 RT



**CONSTRUCTION APPROACH
SIGNING &
NON-YIELDING OBJECT
APPROACH DETAILS**

DESIGNED BY BCE/PJM DATE 8-05
DRAWN BY C.E.A., INC. DATE 8-05
DESIGN FILE NO. p99cl90.dgn
PRF FILE p99cl90cas.l DATE PLOTTED 12-DEC-2008 09
PROJ. NAME CAMBRIDGE - BELVIDERE
PROJ. NO. STP 2219(1)S
SHEET 37 OF 37 SHEETS

DATUM
VERTICAL N/A
HORIZONTAL N/A