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# STATE OF VERMONT AGENCY OF TRANSPORTATION

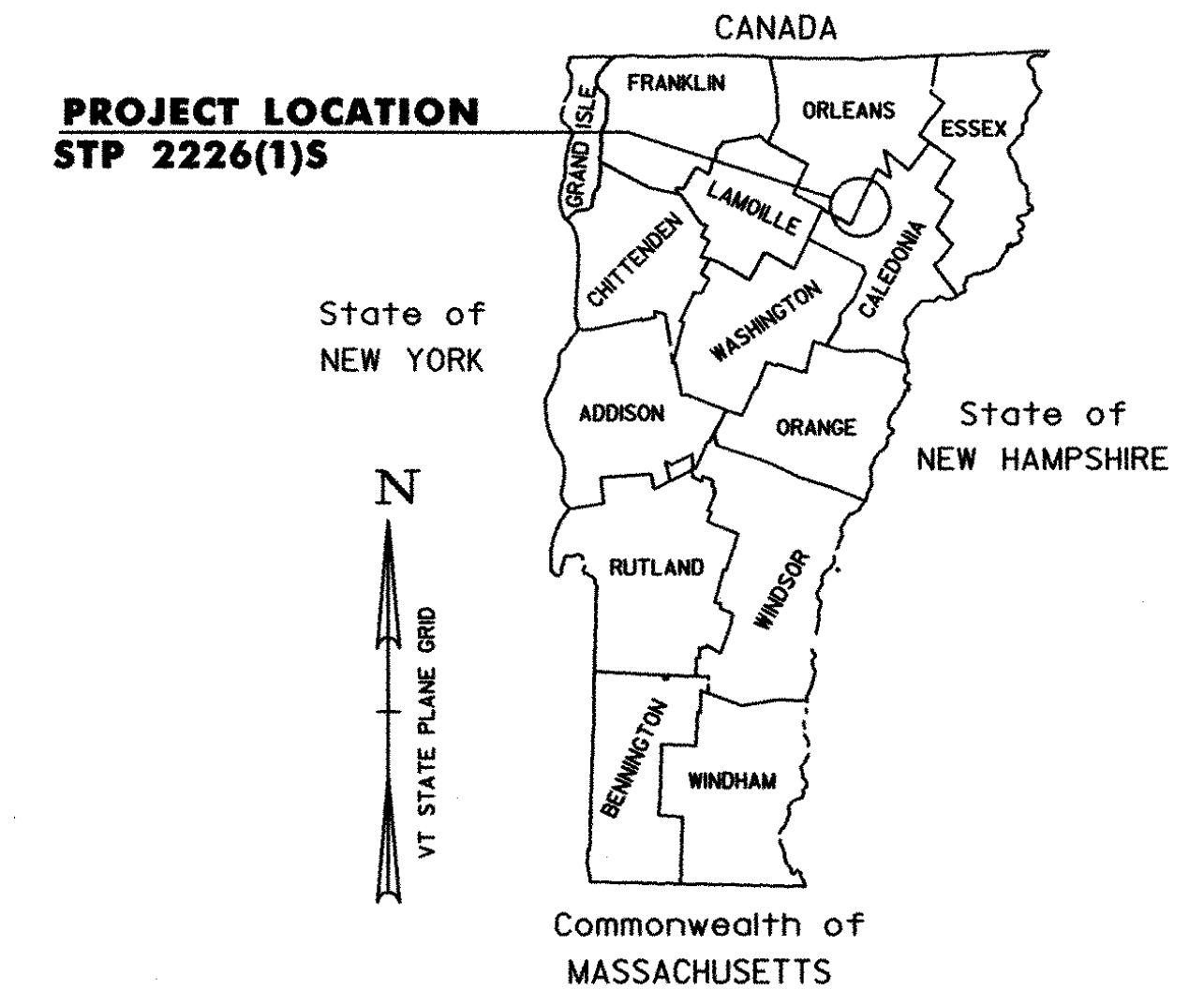
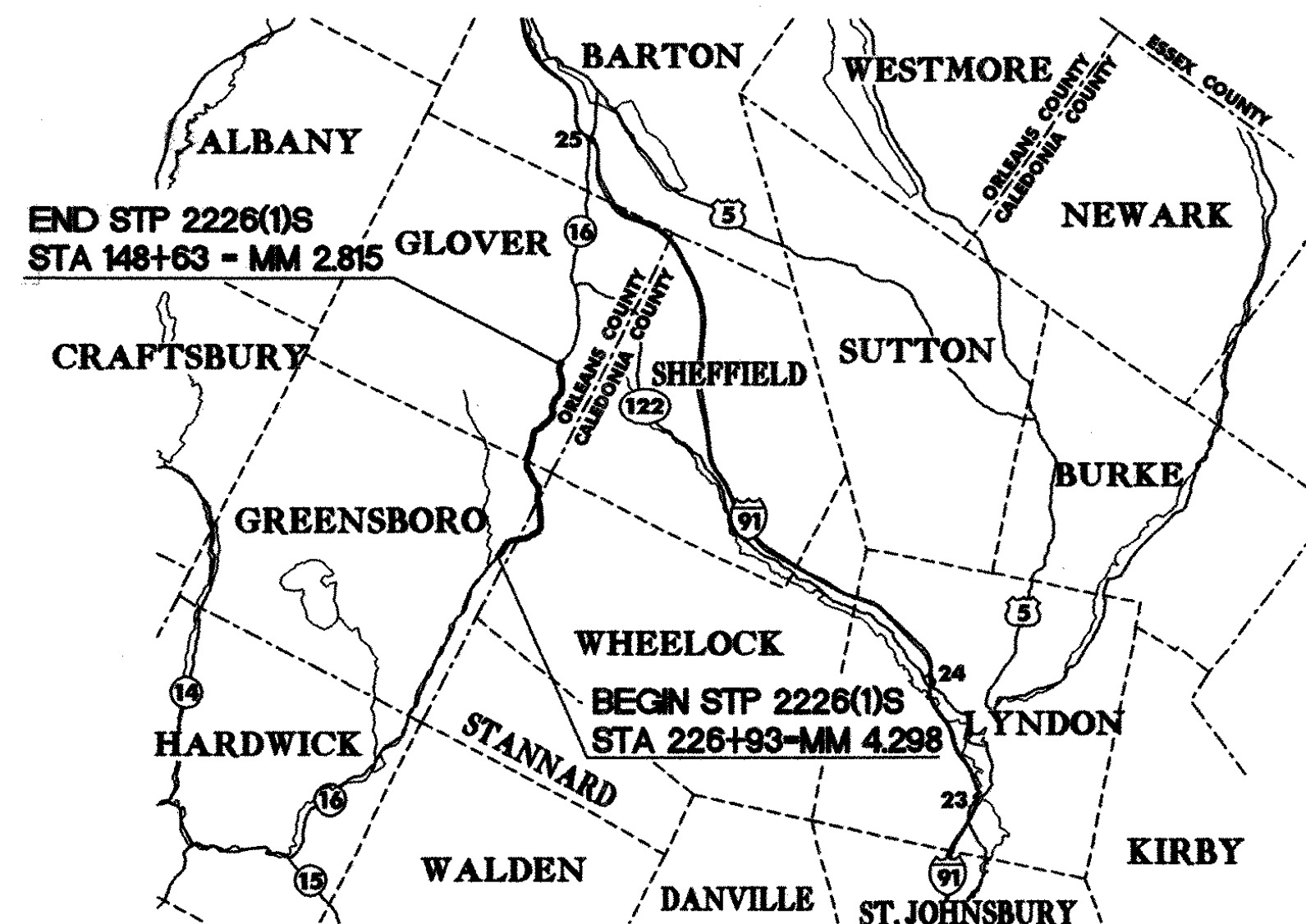


## PROPOSED IMPROVEMENTS TOWNS OF GREENSBORO, WHEELOCK, and GLOVER COUNTIES OF ORLEANS and CALEDONIA VT ROUTE 16

BEGINNING AT STATION 226+93 (MM 4.298) OF VT ROUTE 16 IN THE TOWN OF GREENSBORO AND EXTENDING NORTHERLY ALONG VT ROUTE 16 THROUGH THE TOWN OF WHEELOCK AND INTO THE TOWN OF GLOVER FOR A DISTANCE OF APPROXIMATELY 29,402 FEET (5.568 MILES) TO THE END OF THE PROJECT AT STATION 148+63 (M.M. 2.815) IN THE TOWN OF GLOVER.

STATION TO STATION DATA	LENGTH	(FEET)	(MILES)
TOWN OF GREENSBORO STA 226+93 TO STA 305+72 (MM 4.298 TO MM 5.790)	7,879		1.492
TOWN OF WHEELOCK STA 0+00 TO STA 66+60 (MM 0.000 TO MM 1.261)	6,660		1.261
TOWN OF GLOVER STA 0+00 TO STA 148+63 (MM 0.000 TO MM 2.815)	14,863		2.815
<b>PROJECT TOTALS</b>	<b>29,402</b>		<b>5.568</b>

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.



**TRAFFIC DATA**

	ADT		DHV		ESAL'S (2007-2017)	ESAL'S (2007-2027)
	2007	2017	2007	2017		
BEGINNING OF PROJECT TO SHADOW LAKE ROAD MM 2.66	1,400	1,600	200	230	434,000	1,050,000
SHADOW LAKE ROAD TO END OF PROJECT	2,400	2,700	310	340	966,000	2,502,000

**RECORD PLANS**

CONTRACTOR: PIKE INDUSTRIES, INC. - BERLIN, VT

RESIDENT ENGINEER: DOUG BUMPS

CONSTRUCTION BEGAN: APRIL 25, 2007

CONSTRUCTION COMPLETE: OCTOBER 3, 2007

RECORD PLANS BY: DOUG BUMPS & C. PIERCE

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

BY *Doug Bumps* RESIDENT ENGINEER

DATE 1/23/08

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.

**CONVENTIONAL SIGNS**

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

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

BY:

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



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

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

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

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

DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED <u><i>Richard J. ...</i></u>	DATE <u>1/23/08</u>
PROJECT MANAGER : WOOLAVER	
PROJECT NAME : <b>GREENSBORO - GLOVER</b>	
PROJECT NUMBER : <b>STP 2226(1)S</b>	
SHEET <b>1</b> OF <b>19</b> SHEETS	

**NOTES**

1. THE PAVEMENT WEARING COURSE SHALL BE TYPE IV.

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. AN ESTIMATED THICKNESS OF 3/4in. 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.

2. EMULSIFIED ASPHALT SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES, BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED SURFACES AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER.

3. BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- 1/4in (TOTAL THICKNESS EXCLUDING LEVELING).

4. 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 RESIDENT ENGINEER. THIS WORK WILL BE PAID FOR USING THE APPROPRIATE RENTAL ITEMS SUCH AS ALL PURPOSE EXCAVATOR RENTAL, GRADER RENTAL, LOADER RENTAL, TRUCK RENTAL, AND POWER BROOM RENTAL. THE METHOD OF REMOVAL AND THE USE OF RENTAL ITEMS SHALL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO ANY WORK BEING DONE. MATERIAL REMOVED SHALL BE REPLACED WITH SUBBASE OF CRUSHED GRAVEL, FINE GRADED.

5. 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.

6. 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.

7. ITEM 604.412 IS AN ESTIMATED QUANTITY AND SHALL BE PERFORMED AT LOCATIONS INDICATED ON THE LAYOUT SHEETS AND AS DIRECTED BY THE RESIDENT ENGINEER. ALL D.I.'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS LEVEL WITH THE SURROUNDING TERRAIN.

8. 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.

9. AN ESTIMATED QUANTITY OF EARTH BORROW HAS BEEN INCLUDED FOR THE PROVISIONS OF CONSTRUCTING GUARD RAIL END SECTIONS WHICH SHALL BE CAPPED WITH AN ESTIMATED 3' DEPTH OF AGGREGATE SHOULDER MATERIAL UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 25 CUBIC YARDS OF EARTH BORROW AND 5 TONS OF AGGREGATE SHOULDER MATERIAL FOR EACH GUARD RAIL TERMINAL.

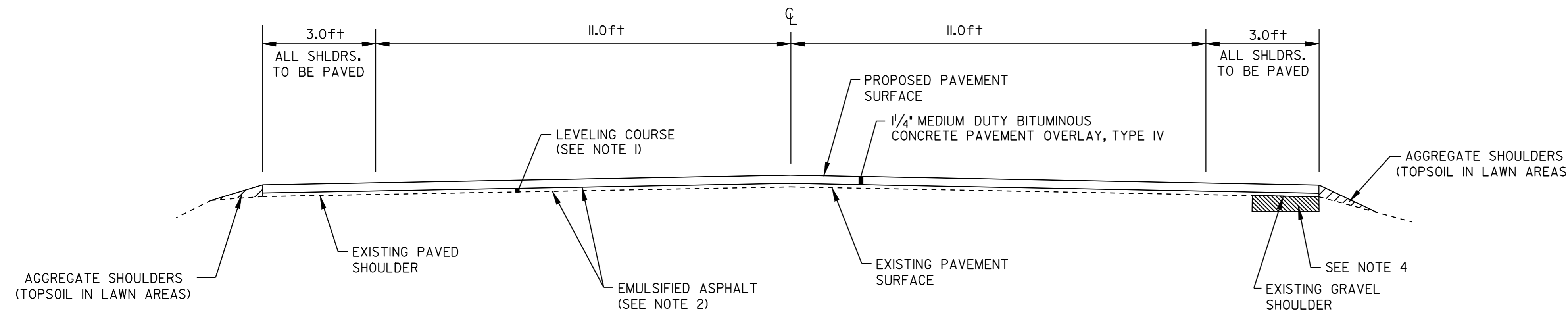
10. BITUMINOUS CONCRETE PAVEMENT WORK, WHICH COULD INVOLVE SOME HAND-WORK (SUCH AS DRIVE AND SIDEROAD APPROACHES AND AROUND DRAINAGE/UTILITY STRUCTURES), SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ITEM 406.27, MEDIUM DUTY BITUMINOUS CONCRETE PAVEMENT (PG 58-34).

11. ALL EDGES OF PAVEMENT SHALL BE BACKED UP FULL HEIGHT WITH AGGREGATE SHOULDER MATERIAL AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.12, AGGREGATE SHOULDERS.

12. COMPACTION, GRADING, AND CLEAN UP OF ITEM 301.28, SUBBASE OF CRUSHED GRAVEL, ITEM 402.12, AGGREGATE SHOULDERS, AND ITEM 651.35, TOPSOIL, IS TO BE INCLUDED IN THE CONTRACT PRICE OF EACH ITEM.

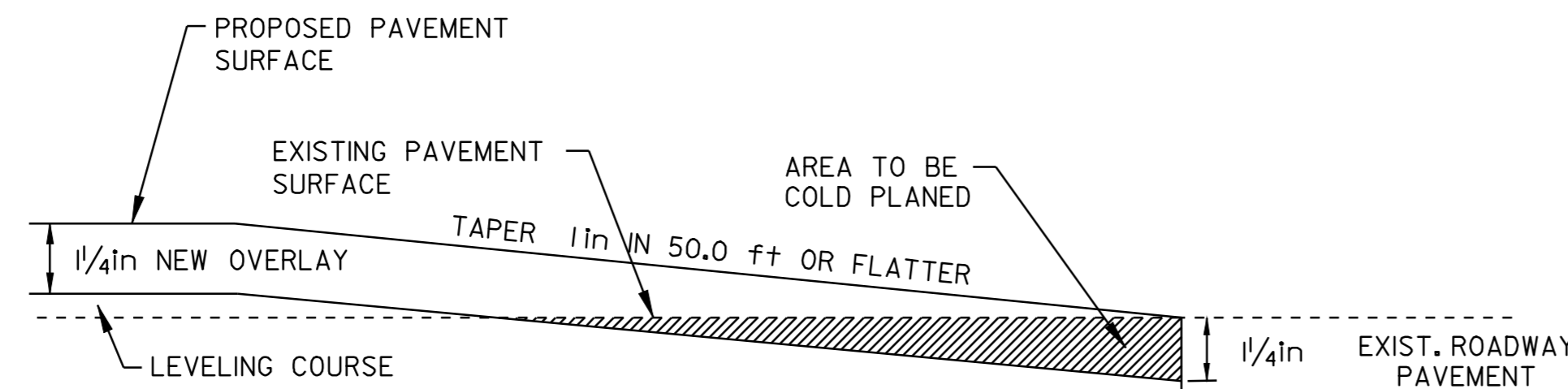
13. YIELDING MARKER POSTS ARE TO BE USED TO REPLACE NON-YIELD MARKER POSTS AT PIPE INLETS AND OUTLETS ONLY, AS DIRECTED BY THE RESIDENT ENGINEER.

14. STEEL BEAM GUARD RAIL WITH STEEL POSTS SHALL BE USED ON THIS PROJECT.



**OVERLAY TYPICAL SECTION**

**GREENSBORO**  
**STA 226+93 TO 254+67**  
**WHEELLOCK**  
**STA 0+00 TO 66+60**  
**GREENSBORO**  
**STA 254+67 TO 305+72**  
**GLOVER**  
**STA 0+00 TO 148+63**



**-APPROACH AREA DETAIL-**

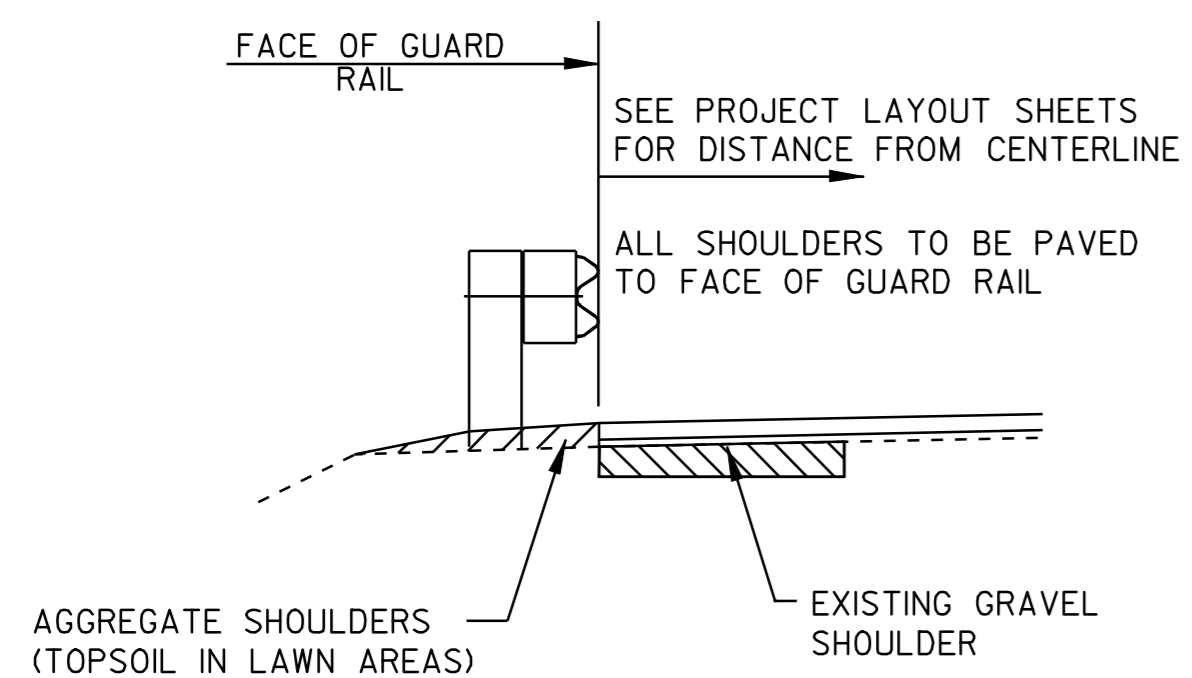
**GREENSBORO**  
**STA 226+93 TO 227+56 (BEGIN PROJECT)**  
**GLOVER**  
**STA 148+00 TO 148+63 (END PROJECT)**

**PROJECT PAVING LIMITS**

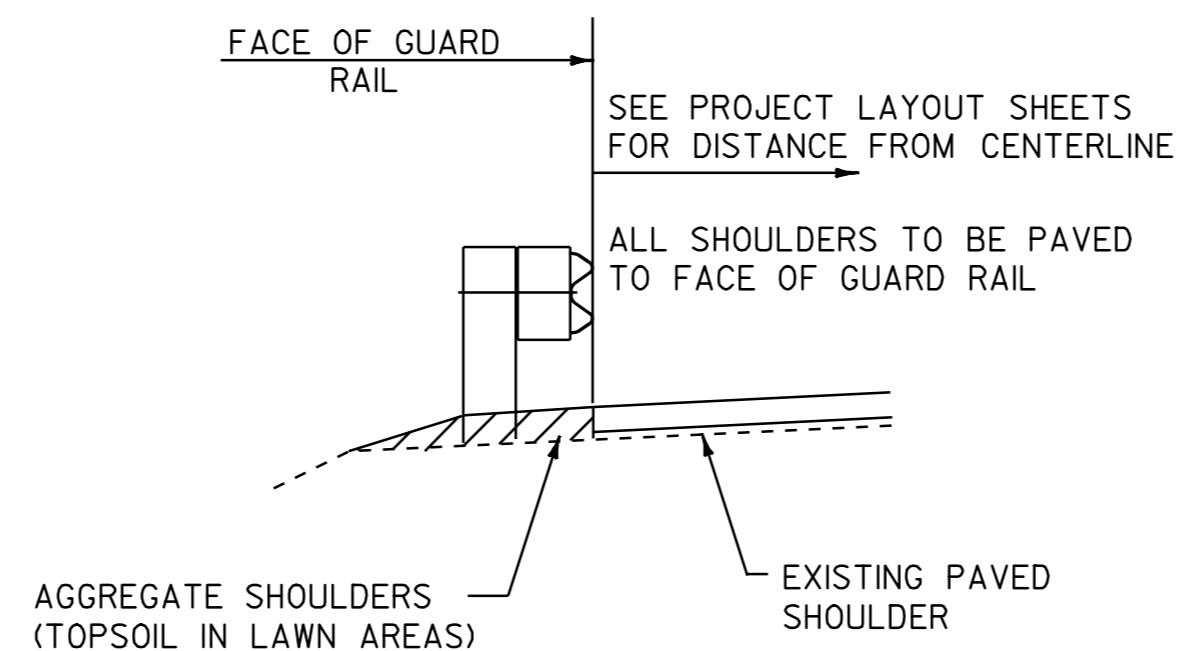
TOWN & ROUTE	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING Tons	NOTES
GREENSBORO - VT ROUTE 16	226+93	254+67	3.0ft-11.0ft-11.0ft-3.0ft	1/4in	360	LEVEL & PAVE W/1/4" TYPE IV
WHEELLOCK - VT ROUTE 16	0+00	66+60	3.0ft-11.0ft-11.0ft-3.0ft	1/4in	870	LEVEL & PAVE W/1/4" TYPE IV
GREENSBORO - VT ROUTE 16	254+67	305+72	3.0ft-11.0ft-11.0ft-3.0ft	1/4in	670	LEVEL & PAVE W/1/4" TYPE IV
GLOVER - VT ROUTE 16	0+00	148+63	3.0ft-11.0ft-11.0ft-3.0ft	1/4in	1,930	LEVEL & PAVE W/1/4" TYPE IV

**PROJECT TYPICAL SHEET #1**

DESIGNED BY	BCE/PJM	DATE	4-06
DRAWN BY	C.E.A., INC.	DATE	4-06
DESIGN FILE NO.	p00B056.dgn		
PRF FILE	p00B056+typl	DATE PLOTTED	15-MAY-2008
PROJ. NAME	GREENSBORO - GLOVER		
PROJ. NO.	STP 2226(1)S		
SHEET	2	OF	19 SHEETS



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



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

**CONSERVATION SEED MIX**  
RURAL AREA - SEED MIXTURE

% WT.	Ibs./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 IBS/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 #2**

DESIGNED BY BCE/PJM DATE 4-06  
 DRAWN BY C.E.A., INC. DATE 4-06  
 DESIGN FILE NO. p00B056.dgn  
 PRF FILE p00B056+yp2.1 DATE 15-MAY-2008 14  
 PLOTTED  
 PROJ. NAME **GREENSBORO - GLOVER**  
 PROJ. NO. **STP 2226(1)S**  
 SHEET **3** OF **19** SHEETS





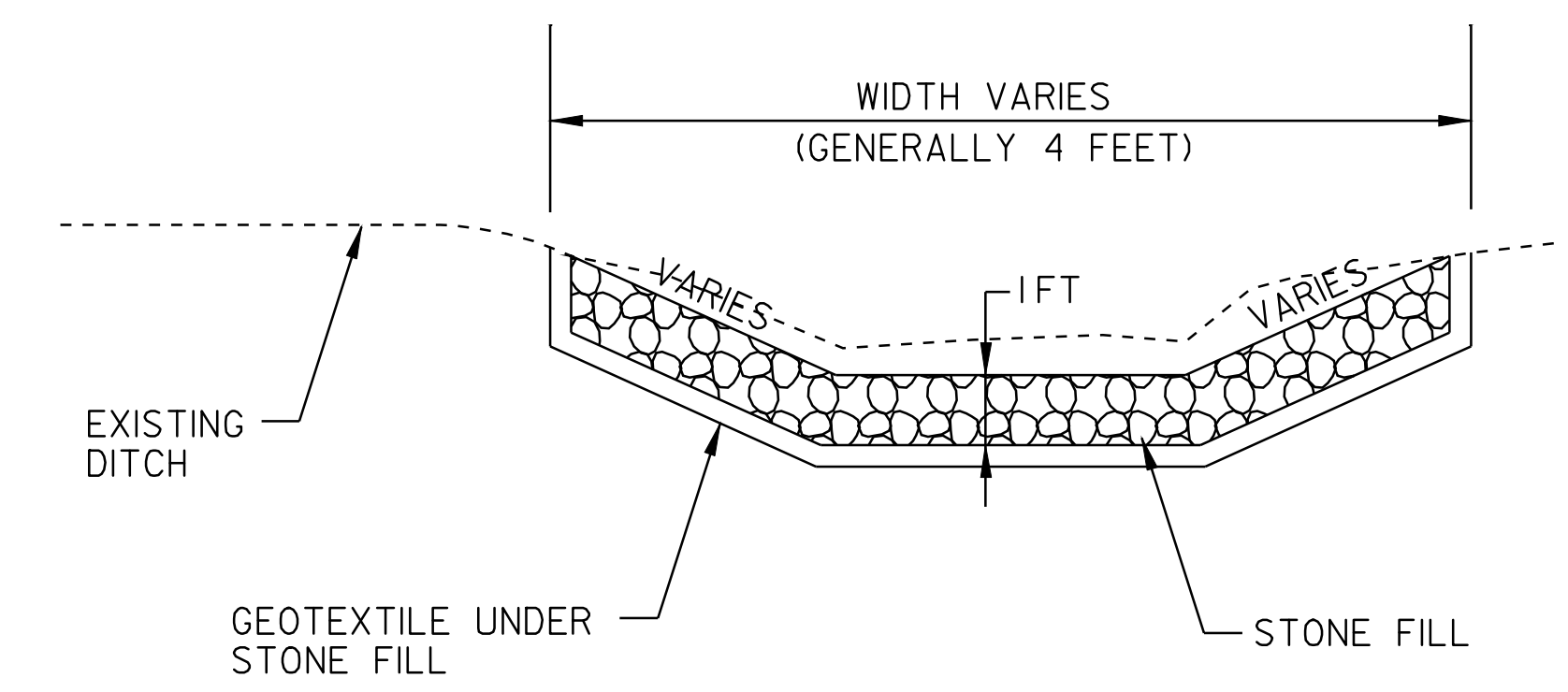
# ITEM DETAIL SUMMARY SHEET

LOCATION			MISCELLANEOUS ITEMS										DRAINAGE ITEMS							GUARD RAIL ITEMS											REMARKS	
STA	STA	POS.	201.31	203.15	203.30		204.22	301.28	402.12	616.47	617.12	604.40	604.412	NEW PIPE					605.10	619.17	621.20	621.205	621.21	621.50	621.51	621.60	621.76	621.77	621.80	621.81		676.10
			THIN TRIM FOR SIGNS	COM. EXCAV.	EARTH BORROW	WASTE DITCHING MATERIAL	TRENCH EXC. OF EARTH, EXPLOR. (N.A.B.I.)	SUBBASE OF CRUSHED GRAVEL, FINE	AGG. SHOULD.	B. CONC. GUTTER & TRAF. ISLAND	RELOCATE MAIL BOX MULTIPLE SUPPORT	CHANGE ELEV.	REHAB. D.I. CLASS I	DIA.	CSP (0.064)	RCP	CPEP		6" UNDER-DRAIN	YIELD. MARKER POSTS	STEEL BEAM G.R., GALV.	STEEL BEAM G.R. 8ft POSTS	HEAVY DUTY S.B. G.R.	MANUF. TERMINAL SECTION, FLARED	MANUF. TERMINAL SECTION, TANG.	ANCHOR FOR S.B. RAIL	REPLACE G.R. POST ASSEMBLY	REPLACE G.R. BEAM UNIT	REMOVE & DISP. OF GUARD RAIL	REMOVE & DISP. OF GUIDE POSTS		DELIN. w/STEEL POSTS
GREENSBORO			EA	CY	CY	CY	CY	TON	TON	TON	EA	EA	EA	in	FT	FT	FT		FT	EA	FT	FT	FT	EA	EA	EA	EA	EA	FT	EA	EA	ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.
226+93	254+67	LT&RT					1		210																							
235+10	242+47	RT			50				10											687.5				2					664	2	REPLACE CABLE RAIL WITH STEEL BEAM GUARD RAIL.	
WHEELLOCK																																ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.
0+00	66+60	LT&RT							490																							
1+25	36+88	RT			50				10											250	3,237.5			2					3,475	2	REPLACE CABLE RAIL WITH STEEL BEAM GUARD RAIL.	
13+85		LT																														REHAB THROAT D. I.
28+60		LT																														REHAB THROAT D. I.
(WHEEL.) (GREENS.)	63+59	259+25	RT		50				10											313	374.5			2					665	2	REPLACE CABLE RAIL WITH STEEL BEAM GUARD RAIL.	
GREENSBORO																																ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.
254+67	305+72	LT&RT							380																							
257+92	261+66	LT			50				10												300			2					175	2	REPLACE CABLE RAIL WITH STEEL BEAM GUARD RAIL.	
294+40	299+02	LT			50				10											387.5			2						385	2	REPLACE CABLE RAIL WITH STEEL BEAM GUARD RAIL.	
299+10		RT																														REHAB THROAT D. I.
GLOVER																																ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.
0+00	148+60	LT&RT							1,080											2												
8+07	13+68	LT			50				10					15			40			525				1		2			510	2	REPLACE CABLE RAIL WITH STEEL BEAM GUARD RAIL.	
35+00	38+12	LT			50				10											237.5				2					312	2	REPLACE EXISITNG STEEL BEAM GUARD RAIL.	
38+45	50+57	LT			50				10											887.5	250			2					1,212	2	REPLACE EXISITNG STEEL BEAM GUARD RAIL.	
60+45	65+95	LT			25				5												475		1	1					550	2	REPLACE CABLE RAIL WITH STEEL BEAM GUARD RAIL.	
66+89	76+26	LT			50				10											477.5	385			2					890	2	REPLACE CABLE RAIL WITH STEEL BEAM GUARD RAIL.	
88+56	92+68	LT			50				10											175	162.5			2					410	2	REPLACE CABLE RAIL WITH STEEL BEAM GUARD RAIL.	
97+37		RT																														REHAB THROAT D. I.
98+55	104+92	LT			25				5												562.5			1	1				635	2	REPLACE CABLE RAIL WITH STEEL BEAM GUARD RAIL.	
109+80	114+66	LT			50				10					15			40			175	275			1		2			400	2	REPLACE CABLE RAIL WITH STEEL BEAM GUARD RAIL.	
121+38	126+87	LT			50				10											475				2					480	2	REPLACE CABLE RAIL WITH STEEL BEAM GUARD RAIL.	
121+39		RT																														REHAB THROAT D. I.
<b>SHEET SUB-TOTALS</b>					650		1		2,290				5	15			80			2	4,590.5	6,022		24	2	4			10,763	28		
<b>ROUNDING</b>					--		--		10			--	--		--	--	--			--	9.5	3		--	--	--			37	--		
<b>SHEET TOTALS</b>					650		1		2,300			5	15			80			2	4,600	6,025		24	2	4			10,800	28			

## ITEM DETAIL SUMMARY SHEET

DESIGNED BY BCE/PJM DATE 8-05  
 DRAWN BY C.E.A., INC. DATE 8-05  
 DESIGN FILE NO. p00B056.dgn  
 PRF FILE p00B0561ds.1 DATE PLOTTED 15-MAY-2008 14:44  
 PROJ. NAME: **GREENSBORO - GLOVER**  
 PROJ. NO.: **STP 2226(1)S**  
 SHEET **6** OF **19** SHEETS

LOCATION				FEET OF DITCHING				MISC. ITEMS			REMARKS	LOCATION				FEET OF DITCHING				MISC. ITEMS			REMARKS			
SITE	STATION	STATION	POS.	PERCENT GRADE				653.20	613.10	649.31		SITE	STATION	STATION	POS.	PERCENT GRADE				653.20	613.10	649.31				
				0-1	1-2.5	2.5-10	>10	TEMP. EROS. MATT.	STONE FILL TYP. I	GEOT. UNDER STONE FILL						TEMP. EROS. MATT.	STONE FILL TYP. I	GEOT. UNDER STONE FILL	0-1	1-2.5	2.5-10	>10		TEMP. EROS. MATT.	STONE FILL TYP. I	GEOT. UNDER STONE FILL
VT ROUTE 16, WHEELLOCK DISTRICT #9								SY	CY	SY									SY	CY	SY					
1	0+00	1+30	LT		130			58																		
2	11+25	13+85	LT	260																		RESET DRIVEWAY CULVERT.				
VT ROUTE 16, GREENSBORO																										
3	289+75	291+50	LT		175			78																		
RUNAWAY POND REST AREA/PULL OFF																										
4	RT SIDE AT ENTRY		RT	400																						
5	LT&RT AT EXIT		LT&RT	300																						
VT ROUTE 16, GLOVER																										
6	41+50	43+75	RT		225			100																		
7	52+75	72+20	RT	1,390	555			247																		
8	74+75	84+50	RT	975																						
9	112+10	125+60	RT	200		1,150												170			767					
10	114+70	120+75	LT	200		405												60			270					
PROJECT SUBTOTALS				3,725	1,085	1,555		483	230	1,037																
ROUNDING				25	15	45		17	20	13																
PROJECT TOTALS				3,750	1,100	1,600		500	250	1,050																



**DITCH DETAIL**  
NOT TO SCALE

NOTES:

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

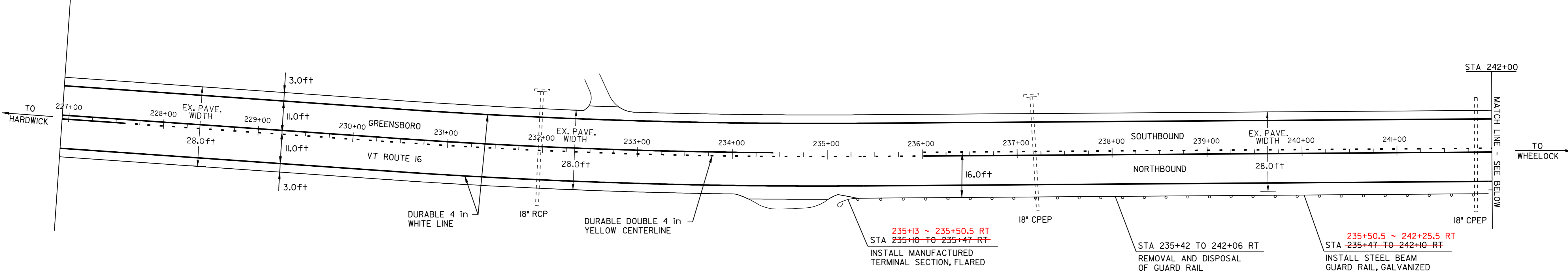
ESTIMATED QUANTITIES OF TEMPORARY EROSION MATTING, AND STONE FILL TYPE I HAVE BEEN INCLUDED. TEMPORARY EROSION MATTING SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 1 AND 2 1/2 PERCENT AND STONE FILL TYPE I SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 2 1/2 AND 10 PERCENT.

<b>DITCH CLEANING DETAIL SHEET</b>	PROJECT :	GREENSBORO - GLOVER	PROJECT NO. :	STP 2226(I)S
	DESIGN FILE NAME:	p00B056.dgn	PLOT DATE:	15-MAY-2008 1
	IPARM FILE NAME:	p00B056.dit.1	SURVEY DATE:	8-05
	SURVEYED BY:	BCE/PJM	DRAWN BY:	C.E.A., INC.
	SQUAD LEADER:	BCE	SHEET:	7 OF 19

TEMPORARY AND DURABLE 4 in YELLOW LINE	
STA 226+93 TO 227+57	SOLID LT&RT
STA 227+57 TO 234+43	SOLID LT & DASHED RT
STA 234+43 TO 236+02	DASHED
STA 236+02 TO 243+94	DASHED LT & SOLID RT
STA 243+94 TO 247+10	SOLID LT&RT
STA 247+10 TO 254+50	SOLID LT & DASHED RT
STA 254+50 TO 254+67	DASHED

TEMPORARY AND DURABLE 4 in WHITE LINE	
STA 226+93 TO 254+67	SOLID LT&RT

VT ROUTE 16  
STA 226+93 = MM 4.298  
BEGIN PROJECT STP 2226(1)S

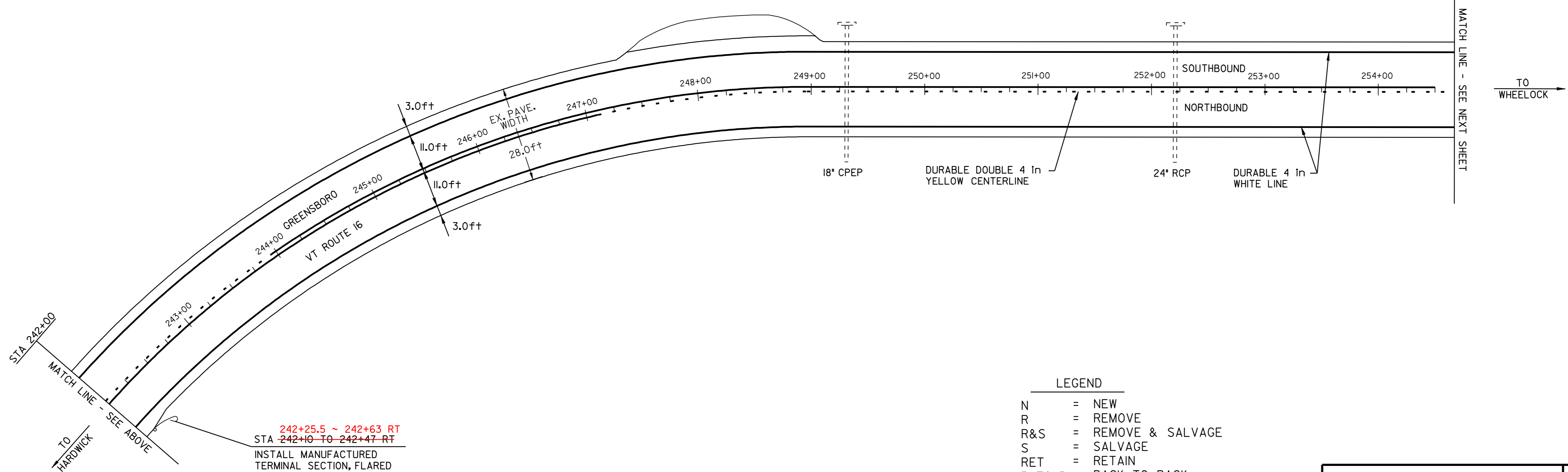


REMOVAL AND DISPOSAL OF GUARD RAIL  
STA 235+42 TO 242+06 RT

MANUFACTURED TERMINAL SECTION, FLARED  
STA 235+10 TO 235+47 RT 235+13 ~ 235+50.5 RT  
STA 242+10 TO 242+47 RT 242+25.5 ~ 242+63 RT

STEEL BEAM GUARD RAIL, GALVANIZED  
STA 235+47 TO 242+10 RT 235+50.5 ~ 242+25.5 RT

TOWN LINE  
GREENSBORO STA 254+67 (MM 4.823)  
WHEELLOCK STA 0+00 (MM 0.000)



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

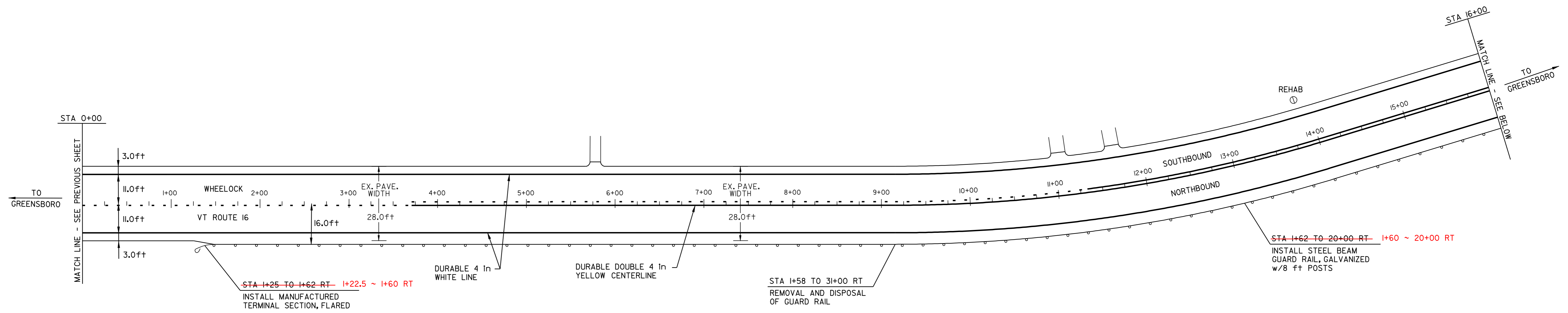
<h1>PAVING PROJECT LAYOUT SHEET #1</h1>	DESIGNED BY	BCE/PJM	DATE	3-06
	DRAWN BY	C.E.A., INC.	DATE	3-06
	DESIGN FILE NO.	p00B056.dgn		
	PRF FILE	p00B056(0).l	DATE PLOTTED	15-MAY-2008 14
	PROJ. NAME	GREENSBORO-GLOVER		
PROJ. NO.	STP 2226(1)S			
SHEET	8	OF	19	SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE  
 STA 0+00 TO 3+70 DASHED LT & SOLID RT  
 STA 3+70 TO 11+35 SOLID LT&RT  
 STA 11+35 TO 31+00

TEMPORARY AND DURABLE 4 in WHITE LINE  
 STA 0+00 TO 31+00 SOLID LT&RT

REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S  
 STA 13+85 LT  
 STA 28+60 LT

DITCHING LOCATIONS (REFER TO SHEET 7 FOR DETAILS)  
 STA 0+00 TO 1+30 LT  
 STA 11+25 TO 13+85 LT

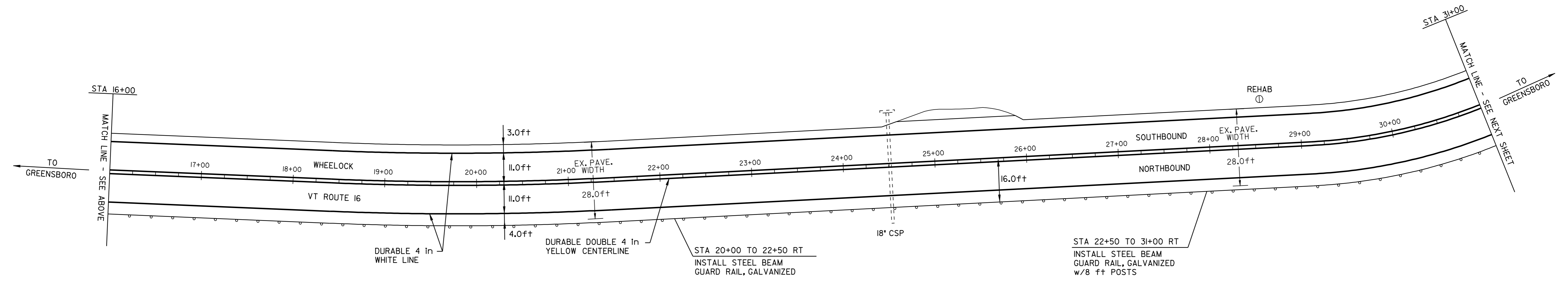


REMOVAL AND DISPOSAL OF GUARD RAIL  
 STA 1+58 TO 31+00 RT

MANUFACTURED TERMINAL SECTION, FLARED  
 STA 1+25 TO 1+62 RT - 1+22.5 ~ 1+60 RT

STEEL BEAM GUARD RAIL, GALVANIZED w/8ft POSTS  
 STA 1+62 TO 20+00 RT - 1+60 ~ 20+00 RT  
 STA 22+50 TO 31+00 RT

STEEL BEAM GUARD RAIL, GALVANIZED  
 STA 20+00 TO 22+50 RT



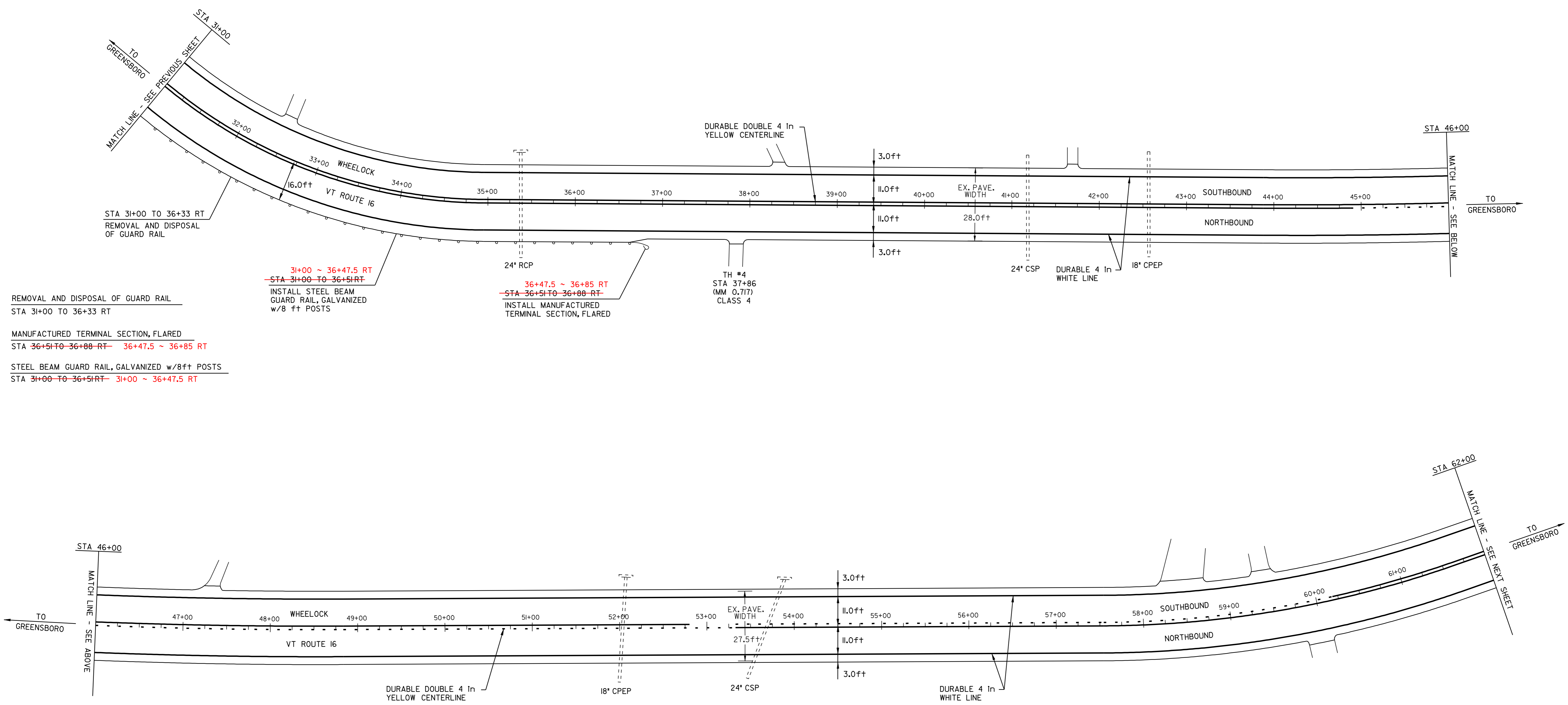
- LEGEND
- N = NEW
  - R = REMOVE
  - R&S = REMOVE & SALVAGE
  - S = SALVAGE
  - RET = RETAIN
  - B-TO-B = BACK TO BACK
  - ⊕ ⊞ ⊠ = CATCH BASIN/DI
  - ⊙ ⊠ = EXISTING THROAT DI
  - I = MARKER POST
  - ⊗ = UTILITY POLE
  - ⊗/I = UTIL. POLE W/UNDERGROUND UTIL.
  - ⌌ = DRIVE

## PAVING PROJECT LAYOUT SHEET #2

DESIGNED BY	BCE/PJM	DATE	3-06
DRAWN BY	C.E.A., INC.	DATE	3-06
DESIGN FILE NO.	p00B056.dgn		
PRF FILE	p00B056102.1	DATE PLOTTED	15-MAY-2008 14
PROJ. NAME	GREENSBORO-GLOVER		
PROJ. NO.	STP 2226(1)S		
SHEET	9	OF	19 SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE  
 STA 31+00 TO 44+88 SOLID LT&RT  
 STA 44+88 TO 52+80 SOLID LT & DASHED RT  
 STA 52+80 TO 53+33 DASHED  
 STA 53+33 TO 60+19 DASHED LT & SOLID RT  
 STA 60+19 TO 62+00 SOLID LT&RT

TEMPORARY AND DURABLE 4 in WHITE LINE  
 STA 31+00 TO 62+00 SOLID LT&RT



REMOVAL AND DISPOSAL OF GUARD RAIL  
 STA 31+00 TO 36+33 RT

MANUFACTURED TERMINAL SECTION, FLARED  
 STA ~~36+51 TO 36+88 RT~~ 36+47.5 ~ 36+85 RT

STEEL BEAM GUARD RAIL, GALVANIZED w/8ft POSTS  
 STA ~~31+00 TO 36+51 RT~~ 31+00 ~ 36+47.5 RT

31+00 ~ 36+47.5 RT  
~~STA 31+00 TO 36+51 RT~~  
 INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 ft POSTS

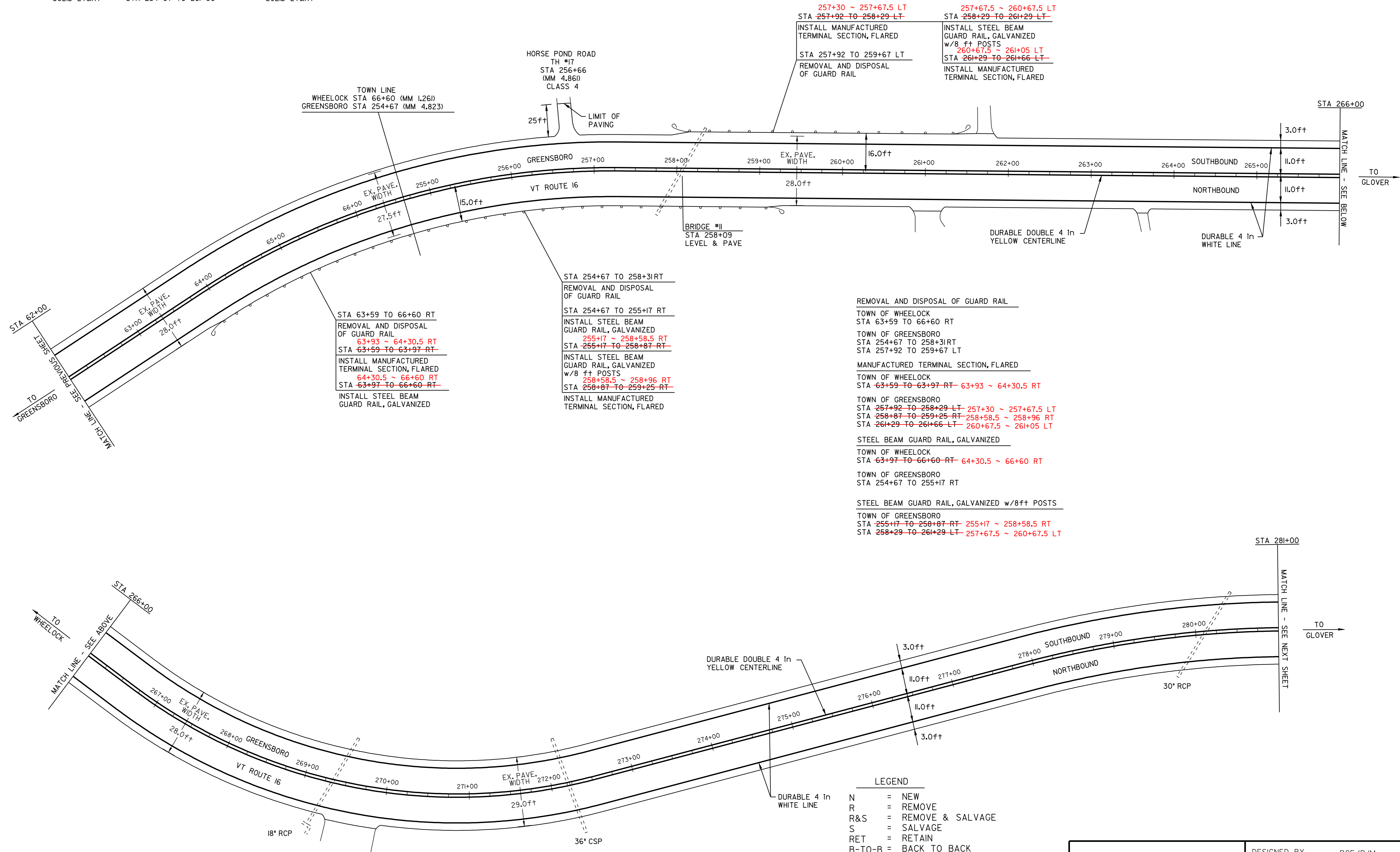
36+47.5 ~ 36+85 RT  
~~STA 36+51 TO 36+88 RT~~  
 INSTALL MANUFACTURED TERMINAL SECTION, FLARED

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

## PAVING PROJECT LAYOUT SHEET #3

DESIGNED BY	BCE/PJM	DATE	3-06
DRAWN BY	C.E.A., INC.	DATE	3-06
DESIGN FILE NO.	p00B056.dgn		
PRF FILE	p00B056i03.i	DATE PLOTTED	15-MAY-2008 14
PROJ. NAME	GREENSBORO-GLOVER		
PROJ. NO.	STP 2226(1)S		
SHEET	10	OF	19 SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE	TEMPORARY AND DURABLE 4 in WHITE LINE
TOWN OF WHEELLOCK STA 62+00 TO 66+60 SOLID LT&RT	TOWN OF WHEELLOCK STA 62+00 TO 66+60 SOLID LT&RT
TOWN OF GREENSBORO STA 254+67 TO 281+00 SOLID LT&RT	TOWN OF GREENSBORO STA 254+67 TO 281+00 SOLID LT&RT



STA 63+59 TO 66+60 RT  
REMOVAL AND DISPOSAL OF GUARD RAIL  
~~63+93 ~ 64+30.5 RT~~  
~~STA 63+59 TO 63+97 RT~~  
INSTALL MANUFACTURED TERMINAL SECTION, FLARED  
~~64+30.5 ~ 66+60 RT~~  
STA 63+97 TO 66+60 RT  
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

STA 254+67 TO 258+31RT  
REMOVAL AND DISPOSAL OF GUARD RAIL  
STA 254+67 TO 255+17 RT  
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED  
~~255+17 ~ 258+58.5 RT~~  
~~STA 255+17 TO 258+87 RT~~  
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 ft POSTS  
~~258+58.5 ~ 258+96 RT~~  
~~STA 258+87 TO 259+25 RT~~  
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

~~257+30 ~ 257+67.5 LT~~  
~~STA 257+92 TO 258+29 LT~~  
INSTALL MANUFACTURED TERMINAL SECTION, FLARED  
STA 257+92 TO 259+67 LT  
REMOVAL AND DISPOSAL OF GUARD RAIL

~~257+67.5 ~ 260+67.5 LT~~  
~~STA 258+29 TO 261+29 LT~~  
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 ft POSTS  
~~260+67.5 ~ 261+05 LT~~  
~~STA 261+29 TO 261+66 LT~~  
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

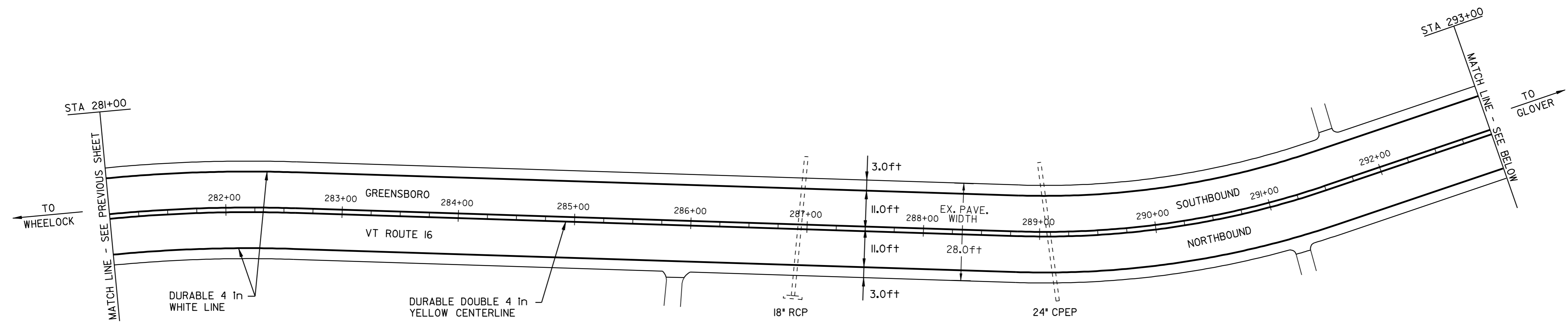
REMOVAL AND DISPOSAL OF GUARD RAIL  
TOWN OF WHEELLOCK  
STA 63+59 TO 66+60 RT  
TOWN OF GREENSBORO  
STA 254+67 TO 258+31RT  
STA 257+92 TO 259+67 LT  
MANUFACTURED TERMINAL SECTION, FLARED  
TOWN OF WHEELLOCK  
STA 63+59 TO 63+97 RT- 63+93 ~ 64+30.5 RT  
TOWN OF GREENSBORO  
STA 257+92 TO 258+29 LT- 257+30 ~ 257+67.5 LT  
STA 258+87 TO 259+25 RT- 258+58.5 ~ 258+96 RT  
STA 261+29 TO 261+66 LT- 260+67.5 ~ 261+05 LT  
STEEL BEAM GUARD RAIL, GALVANIZED  
TOWN OF WHEELLOCK  
STA 63+97 TO 66+60 RT- 64+30.5 ~ 66+60 RT  
TOWN OF GREENSBORO  
STA 254+67 TO 255+17 RT  
STEEL BEAM GUARD RAIL, GALVANIZED w/8ft POSTS  
TOWN OF GREENSBORO  
STA 255+17 TO 258+87 RT- 255+17 ~ 258+58.5 RT  
STA 258+29 TO 261+29 LT- 257+67.5 ~ 260+67.5 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
⊗/I	=	UTIL. POLE W/UNDERGROUND UTIL.
⌌	=	DRIVE

## PAVING PROJECT LAYOUT SHEET #4

DESIGNED BY	BCE/PJM	DATE	3-06
DRAWN BY	C.E.A., INC.	DATE	3-06
DESIGN FILE NO.	p00B056.dgn		
PRF FILE	p00B056I04.I	DATE PLOTTED	15-MAY-2008 14
PROJ. NAME	GREENSBORO-GLOVER		
PROJ. NO.	STP 2226(1)S		
SHEET	11	OF	19 SHEETS

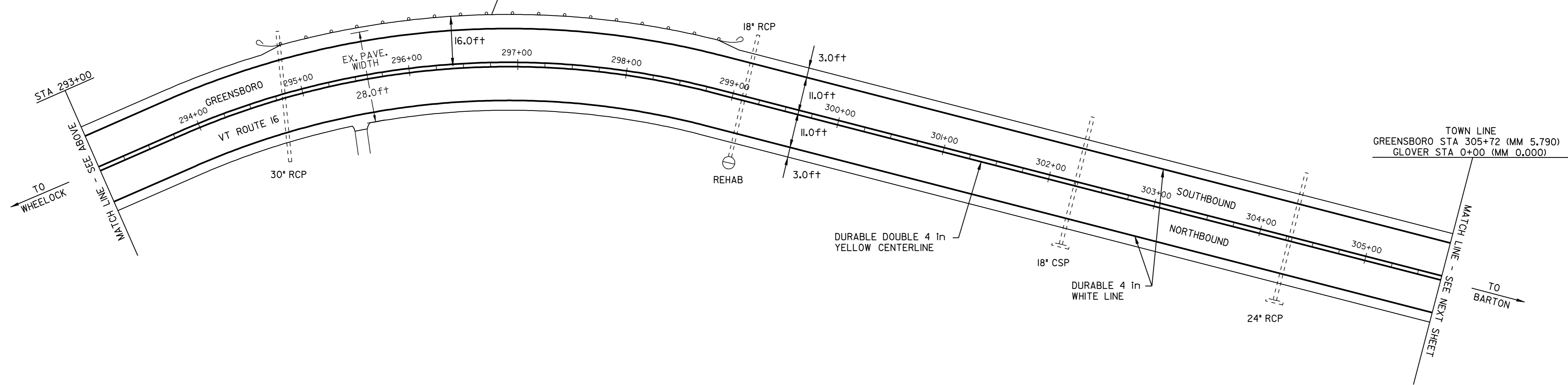


REMOVAL AND DISPOSAL OF GUARD RAIL  
STA 294+64 TO 298+51LT

MANUFACTURED TERMINAL SECTION, FLARED  
STA 294+40 TO 294+77 LT- 294+7.5 ~ 294+55 LT  
STA 298+65 TO 299+02 LT- 298+7.5 ~ 298+55 LT

STEEL BEAM GUARD RAIL, GALVANIZED  
STA 294+77 TO 298+65 LT- 294+55 ~ 298+7.5 LT

STA 294+64 TO 298+51LT  
REMOVAL AND DISPOSAL OF GUARD RAIL  
294+7.5 ~ 294+55 LT  
~~STA 294+40 TO 294+77 LT~~  
INSTALL MANUFACTURED TERMINAL SECTION, FLARED  
294+55 ~ 298+7.5 LT  
~~STA 294+77 TO 298+65 LT~~  
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED  
298+7.5 ~ 298+55 LT  
~~STA 298+65 TO 299+02 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
⊗		UTIL. POLE W/UNDERGROUND UTIL.
⊞		DRIVE

## PAVING PROJECT LAYOUT SHEET #5

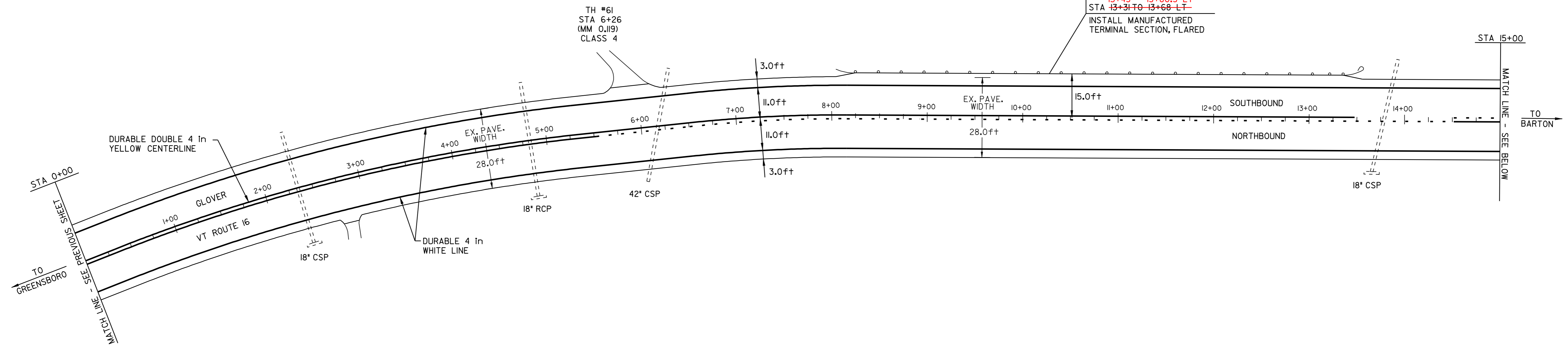
DESIGNED BY	BCE/PJM	DATE	3-06
DRAWN BY	C.E.A., INC.	DATE	3-06
DESIGN FILE NO.	p00B056.dgn		
PRF FILE	p00B056105.I	DATE PLOTTED	15-MAY-2008 14
PROJ. NAME	<b>GREENSBORO-GLOVER</b>		
PROJ. NO.	<b>STP 2226(1)S</b>		
SHEET	12	OF	19 SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE  
 STA 0+00 TO 5+54 SOLID LT&RT  
 STA 5+54 TO 13+46 SOLID LT & DASHED RT  
 STA 13+46 TO 14+52 DASHED  
 STA 14+52 TO 21+91 DASHED LT & SOLID RT  
 STA 21+91 TO 30+00 SOLID LT&RT

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

DITCHING LOCATIONS (REFER TO SHEET 7 FOR DETAILS)  
 RUNAWAY POND REST AREA/PULL OFF

STA 8+07 TO 13+19 LT  
 REMOVAL AND DISPOSAL OF GUARD RAIL  
~~7+93 LT~~  
~~STA 8+07 TO 13+31 LT~~  
 INSTALL BURIED END TERMINAL, SEE SHEET 19 FOR DETAIL  
~~7+93 ~ 13+43 LT~~  
~~STA 8+07 TO 13+31 LT~~  
 INSTALL STEEL BEAM GUARD RAIL, GALVANIZED  
~~13+43 ~ 13+80.5 LT~~  
~~STA 13+31 TO 13+68 LT~~  
 INSTALL MANUFACTURED TERMINAL SECTION, FLARED

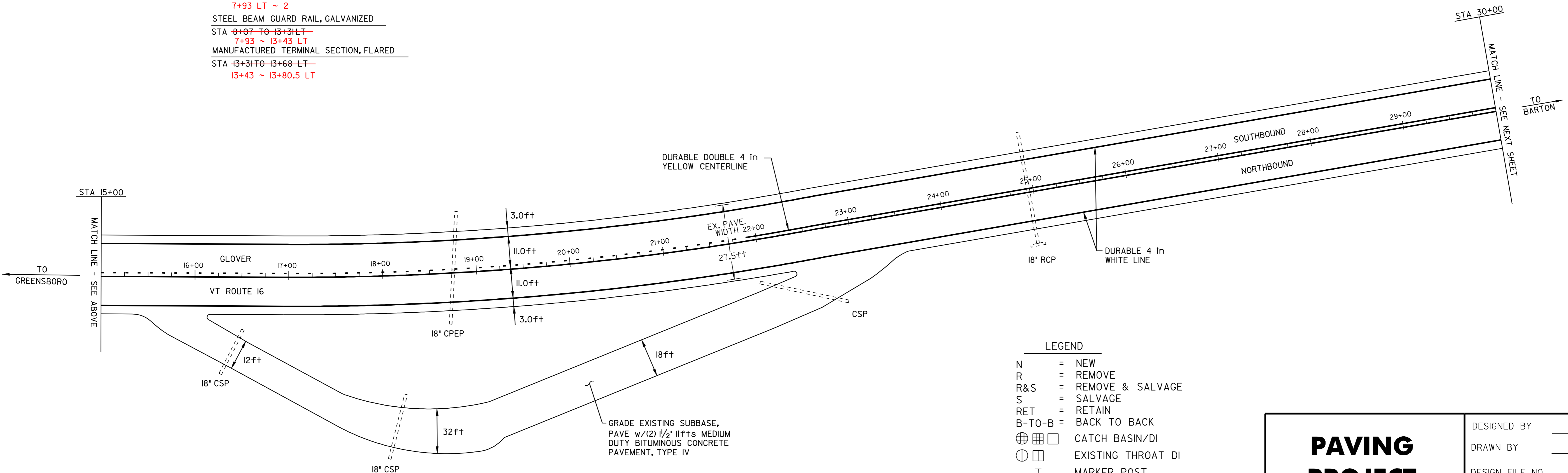


REMOVAL AND DISPOSAL OF GUARD RAIL  
 STA 8+07 TO 13+19 LT

ANCHOR FOR STEEL BEAM RAIL  
~~STA 8+07 LT - 2~~  
~~7+93 LT ~ 2~~

STEEL BEAM GUARD RAIL, GALVANIZED  
~~STA 8+07 TO 13+31 LT~~  
~~7+93 ~ 13+43 LT~~

MANUFACTURED TERMINAL SECTION, FLARED  
~~STA 13+31 TO 13+68 LT~~  
~~13+43 ~ 13+80.5 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
  - ⊗/I UTIL. POLE W/UNDERGROUND UTIL.
  - ⊞ DRIVE

## PAVING PROJECT LAYOUT SHEET #6

DESIGNED BY BCE/PJM DATE 3-06

DRAWN BY C.E.A., INC. DATE 3-06

DESIGN FILE NO. p00B056.dgn

PRF FILE p00B056I06.1 DATE PLOTTED 15-MAY-2008 14

PROJ. NAME **GREENSBORO-GLOVER**

PROJ. NO. **STP 2226(1)S**

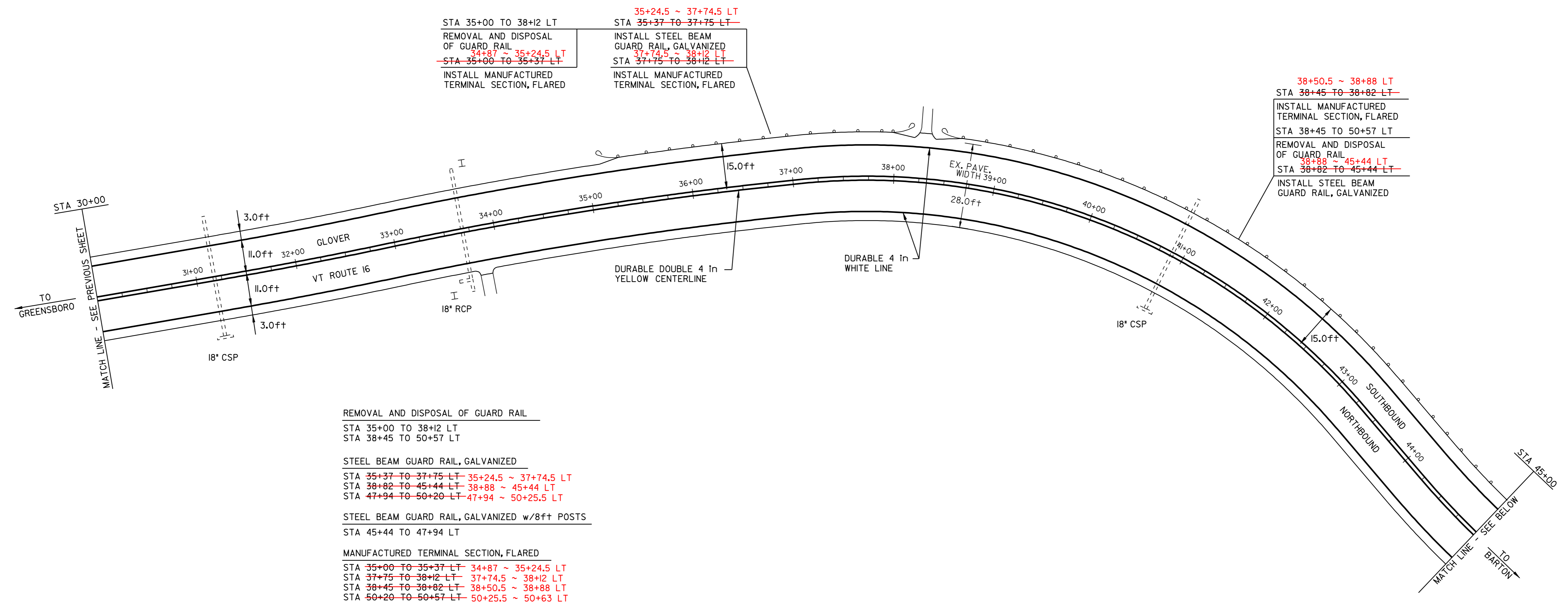
SHEET **13** OF **19** SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE  
 STA 30+00 TO 60+00 SOLID LT&RT

TEMPORARY AND DURABLE 4 in WHITE LINE  
 STA 30+00 TO 60+00 SOLID LT&RT

~~YIELDING MARKER POST  
 STA 33+67 LT&RT 2~~

DITCHING LOCATIONS (REFER TO SHEET 7 FOR DETAILS)  
 STA 41+50 TO 43+75 RT  
 STA 52+75 TO 60+00 RT



STA 35+00 TO 38+12 LT  
 REMOVAL AND DISPOSAL OF GUARD RAIL  
~~34+87 ~ 35+24.5 LT~~  
~~STA 35+00 TO 35+37 LT~~  
 INSTALL MANUFACTURED TERMINAL SECTION, FLARED

35+24.5 ~ 37+74.5 LT  
~~STA 35+37 TO 37+75 LT~~  
 37+74.5 ~ 38+12 LT  
~~STA 37+75 TO 38+12 LT~~  
 INSTALL STEEL BEAM GUARD RAIL, GALVANIZED  
 INSTALL MANUFACTURED TERMINAL SECTION, FLARED

38+50.5 ~ 38+88 LT  
~~STA 38+45 TO 38+82 LT~~  
 INSTALL MANUFACTURED TERMINAL SECTION, FLARED  
 STA 38+45 TO 50+57 LT  
 REMOVAL AND DISPOSAL OF GUARD RAIL  
 38+88 ~ 45+44 LT  
~~STA 38+82 TO 45+44 LT~~  
 INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

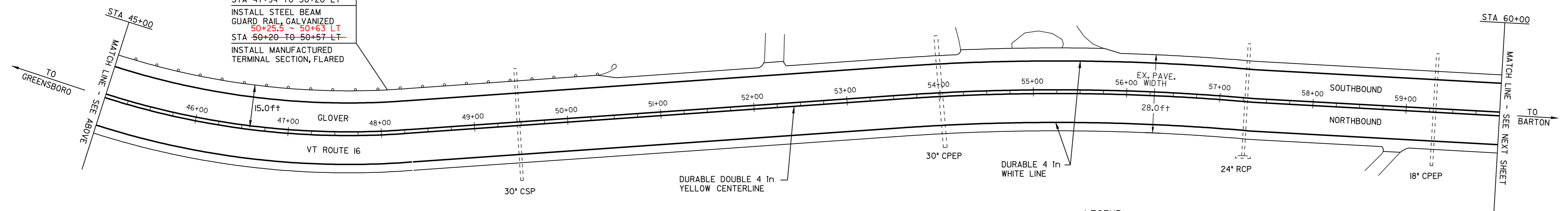
REMOVAL AND DISPOSAL OF GUARD RAIL  
 STA 35+00 TO 38+12 LT  
 STA 38+45 TO 50+57 LT

STEEL BEAM GUARD RAIL, GALVANIZED  
 STA 35+37 TO 37+75 LT 35+24.5 ~ 37+74.5 LT  
 STA 38+82 TO 45+44 LT 38+88 ~ 45+44 LT  
 STA 47+94 TO 50+20 LT 47+94 ~ 50+25.5 LT

STEEL BEAM GUARD RAIL, GALVANIZED w/8ft POSTS  
 STA 45+44 TO 47+94 LT

MANUFACTURED TERMINAL SECTION, FLARED  
 STA 35+00 TO 35+37 LT 34+87 ~ 35+24.5 LT  
 STA 37+75 TO 38+12 LT 37+74.5 ~ 38+12 LT  
 STA 38+45 TO 38+82 LT 38+50.5 ~ 38+88 LT  
 STA 50+20 TO 50+57 LT 50+25.5 ~ 50+63 LT

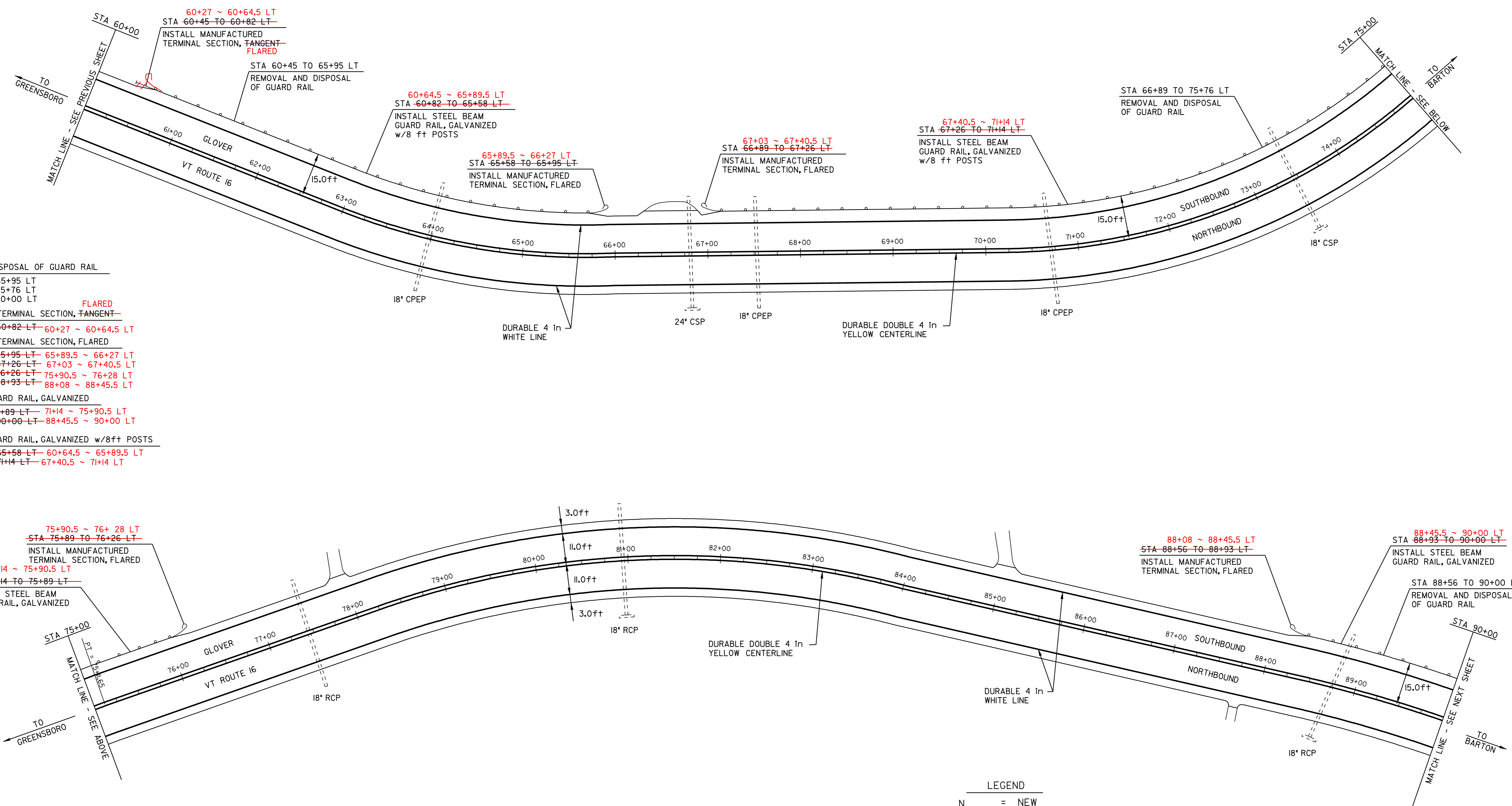
STA 45+44 TO 47+94 LT  
 INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 ft POSTS  
 47+94 ~ 50+25.5 LT  
~~STA 47+94 TO 50+20 LT~~  
 INSTALL STEEL BEAM GUARD RAIL, GALVANIZED  
 50+25.5 ~ 50+63 LT  
~~STA 50+20 TO 50+57 LT~~  
 INSTALL MANUFACTURED TERMINAL SECTION, FLARED



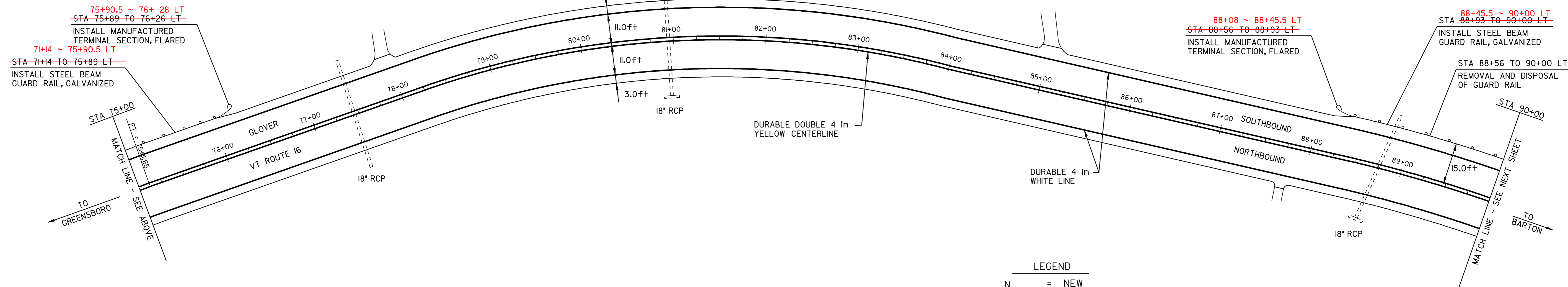
- LEGEND
- N = NEW
  - R = REMOVE
  - R&S = REMOVE & SALVAGE
  - S = SALVAGE
  - RET = RETAIN
  - B-TO-B = BACK TO BACK
  - ⊕ ⊞ ⊠ = CATCH BASIN/DI
  - ⊕ ⊞ = EXISTING THROAT DI
  - I = MARKER POST
  - ⊗ = UTILITY POLE
  - ⊗/⊗ = UTIL. POLE W/UNDERGROUND UTIL.
  - ⊏ = DRIVE

## PAVING PROJECT LAYOUT SHEET #7

DESIGNED BY	BCE/PJM	DATE	3-06
DRAWN BY	C.E.A., INC.	DATE	3-06
DESIGN FILE NO.	p00B056.dgn		
PRF FILE	p00B056107.i	DATE PLOTTED	15-MAY-2008 14
PROJ. NAME	GREENSBORO-GLOVER		
PROJ. NO.	STP 2226(1)S		
SHEET	14	OF	19 SHEETS



- REMOVAL AND DISPOSAL OF GUARD RAIL  
 STA 60+45 TO 65+95 LT  
 STA 66+89 TO 75+76 LT  
 STA 88+56 TO 90+00 LT
- MANUFACTURED TERMINAL SECTION, TANGENT-FLARED  
 STA ~~60+45 TO 60+82 LT~~ 60+27 ~ 60+64.5 LT
- MANUFACTURED TERMINAL SECTION, FLARED  
 STA ~~65+58 TO 65+95 LT~~ 65+89.5 ~ 66+27 LT  
 STA ~~66+89 TO 67+26 LT~~ 67+03 ~ 67+40.5 LT  
 STA ~~75+89 TO 76+26 LT~~ 75+90.5 ~ 76+28 LT  
 STA ~~88+56 TO 88+93 LT~~ 88+08 ~ 88+45.5 LT
- STEEL BEAM GUARD RAIL, GALVANIZED  
 STA ~~71+14 TO 75+89 LT~~ 71+14 ~ 75+90.5 LT  
 STA ~~88+93 TO 90+00 LT~~ 88+45.5 ~ 90+00 LT
- STEEL BEAM GUARD RAIL, GALVANIZED w/8ft POSTS  
 STA ~~60+82 TO 65+58 LT~~ 60+64.5 ~ 65+89.5 LT  
 STA ~~67+26 TO 71+14 LT~~ 67+40.5 ~ 71+14 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
  - ⊗/I = UTIL. POLE W/UNDERGROUND UTIL.
  - ⊞ = DRIVE

## PAVING PROJECT LAYOUT SHEET #8

DESIGNED BY	BCE/PJM	DATE	3-06
DRAWN BY	C.E.A., INC.	DATE	3-06
DESIGN FILE NO.	p00B056.dgn		
PRF FILE	p00B056I08.1	DATE PLOTTED	15-MAY-2008 14
PROJ. NAME	GREENSBORO-GLOVER		
PROJ. NO.	STP 2226(1)S		
SHEET	15	OF	19 SHEETS

TEMPORARY AND DURABLE 4 in YELLOW LINE  
 STA 90+00 TO 120+00 SOLID LT&RT  
 STA 105+90 DOUBLE SOLID RT  
 (WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY AND DURABLE 4 in WHITE LINE  
 STA 90+00 TO 120+00 SOLID LT&RT  
 (WITH EDGE LINE BREAKS FOR TOWN HIGHWAYS)

REMOVING SIGNS  
 2

REHABILITATION OF C.B.'S, D.I.'S, OR M.H.'S  
 STA 97+37 RT

DITCHING LOCATIONS (REFER TO SHEET 7 FOR DETAILS)  
 STA 112+10 TO 120+00 RT  
 STA 114+70 TO 120+00 LT

TEMPORARY AND DURABLE 24 in STOP BAR  
 STA 105+90 RT SQUARE ROAD

TEMPORARY AND DURABLE LETTER OR SYMBOL  
 STA 105+90 RT "STOP"

STA 90+00 TO 92+68 LT  
 REMOVAL AND DISPOSAL OF GUARD RAIL  
 STA 90+00 TO 90+68 LT  
 INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

90+68 ~ 92+45.5 LT  
 STA 90+68 TO 92+31LT  
 INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 ft POSTS  
 STA 92+31 TO 92+68 LT 92+45.5 ~ 92+83 LT  
 INSTALL MANUFACTURED TERMINAL SECTION, FLARED

98+57 ~ 104+95.5 LT  
 STA 98+92 TO 104+55 LT  
 INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 ft POSTS

98+57 LT - DRIVE RADIUS W/ 2 ANCHORS  
 STA 98+55 TO 98+92 LT  
 INSTALL MANUFACTURED TERMINAL SECTION, TANGENT

STA 98+59 TO 104+84 LT  
 REMOVAL AND DISPOSAL OF GUARD RAIL

REMOVAL AND DISPOSAL OF GUARD RAIL  
 STA 90+00 TO 92+68 LT  
 STA 98+59 TO 104+84 LT  
 STA 110+04 TO 114+04 LT

MANUFACTURED TERMINAL SECTION, FLARED  
 STA 92+31 TO 92+68 LT 92+45.5 ~ 92+83 LT  
 STA 104+55 TO 104+92 LT 104+95.5 ~ 105+33 LT  
 STA 109+80 TO 110+17 LT 109+79.5 ~ 110+17 LT

MANUFACTURED TERMINAL SECTION, TANGENT  
 STA 98+55 TO 98+92 LT

STEEL BEAM GUARD RAIL, GALVANIZED  
 STA 90+00 TO 90+68 LT  
 STA 110+17 TO 111+92 LT

STEEL BEAM GUARD RAIL, GALVANIZED w/8ft POSTS  
 STA 90+68 TO 92+31LT 90+68 ~ 92+45.5 LT  
 STA 98+92 TO 104+55 LT 98+57 ~ 104+95.5 LT  
 STA 111+92 TO 114+66 LT 111+92 ~ 114+92 LT

ANCHOR FOR STEEL BEAM RAIL  
 STA 114+66 LT - 2 114+92 LT - 2  
 98+57 LT - 2

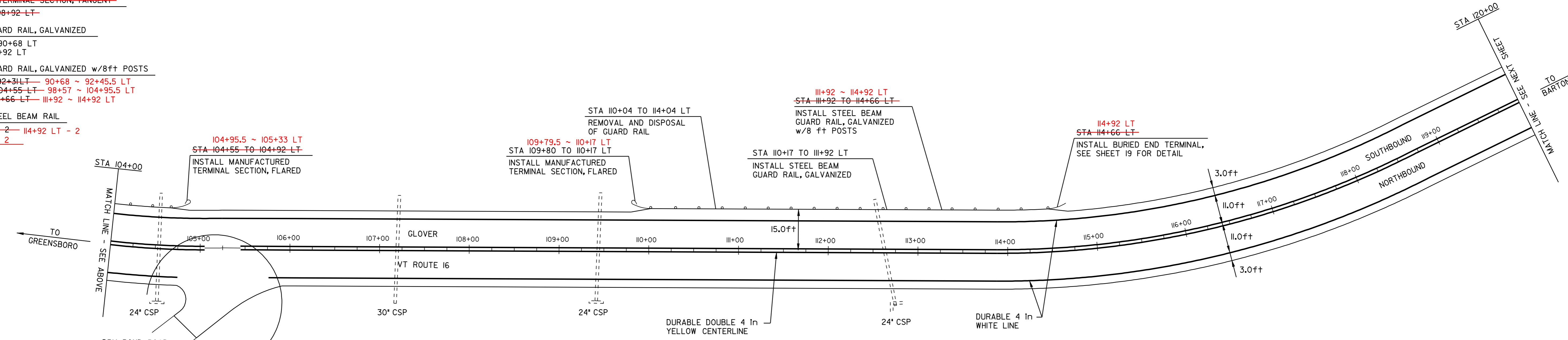
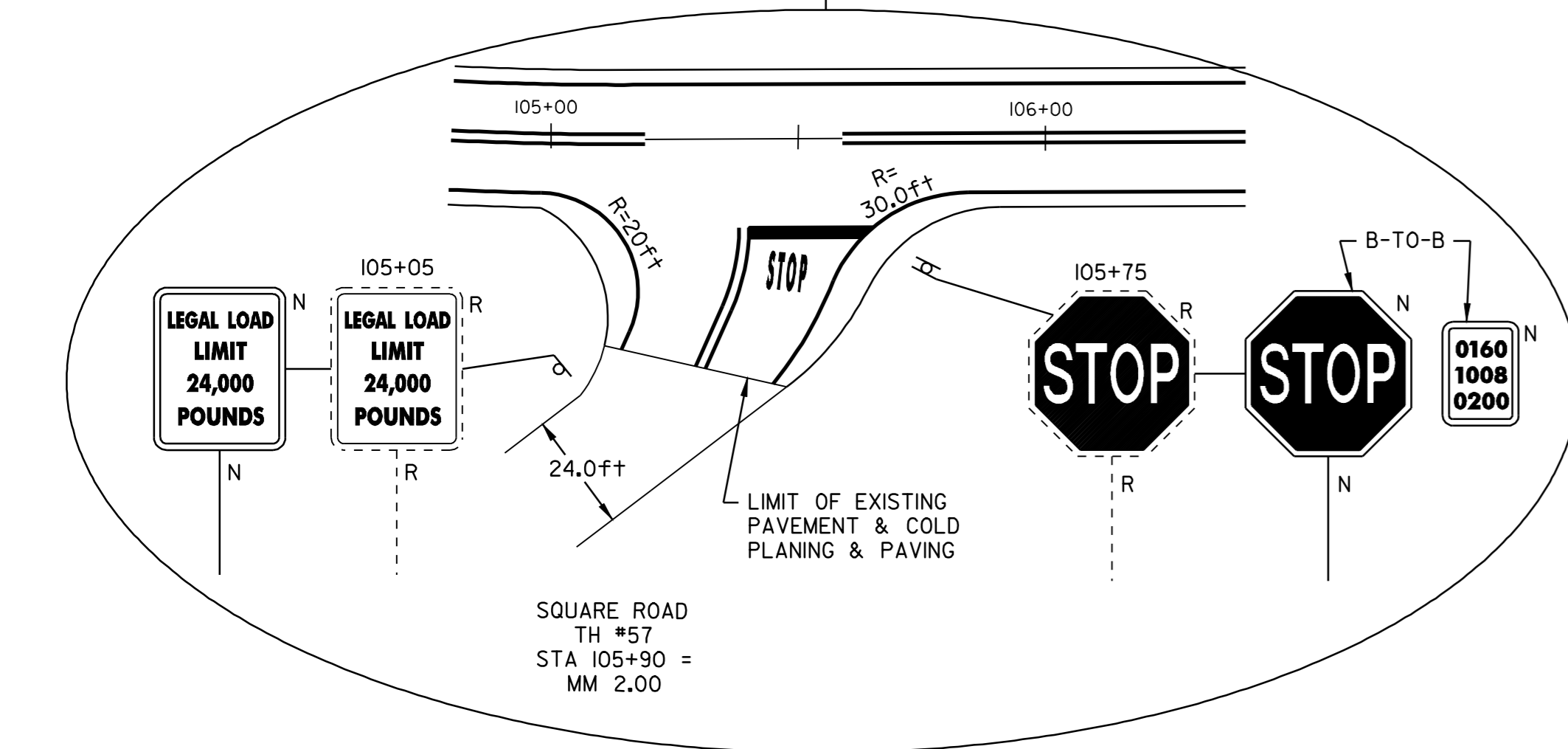
104+95.5 ~ 105+33 LT  
 STA 104+55 TO 104+92 LT  
 INSTALL MANUFACTURED TERMINAL SECTION, FLARED

STA 110+04 TO 114+04 LT  
 REMOVAL AND DISPOSAL OF GUARD RAIL  
 109+79.5 ~ 110+17 LT  
 STA 109+80 TO 110+17 LT  
 INSTALL MANUFACTURED TERMINAL SECTION, FLARED

111+92 ~ 114+92 LT  
 STA 111+92 TO 114+66 LT  
 INSTALL STEEL BEAM GUARD RAIL, GALVANIZED w/8 ft POSTS  
 STA 110+17 TO 111+92 LT  
 INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

114+92 LT  
 STA 114+66 LT  
 INSTALL BURIED END TERMINAL, SEE SHEET 19 FOR DETAIL

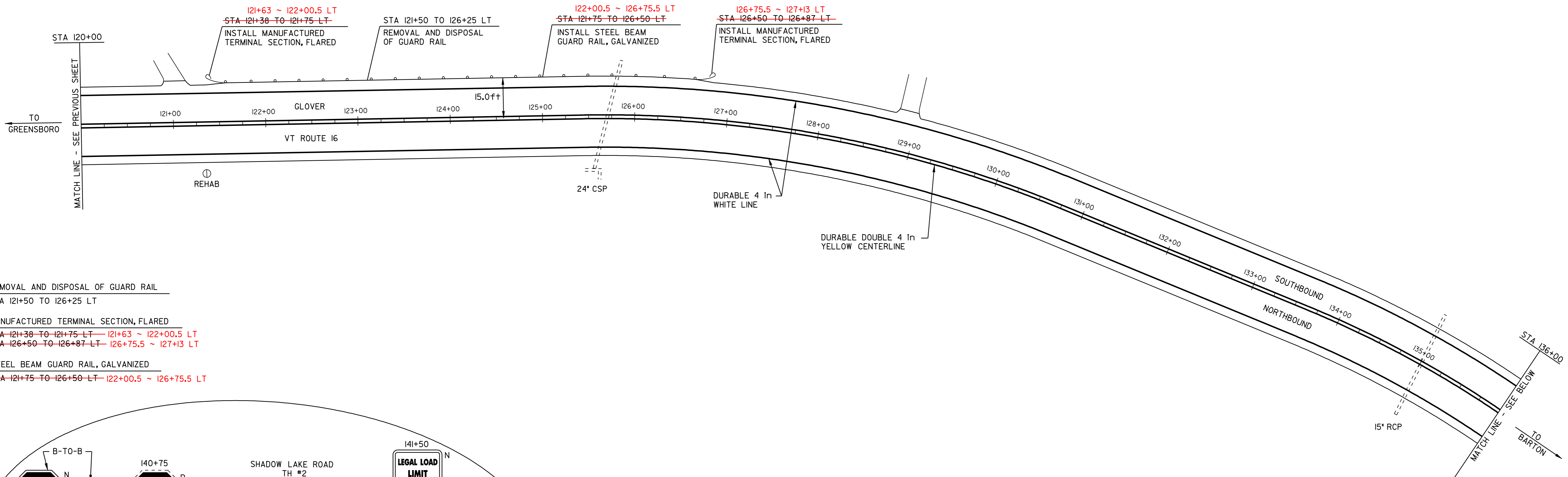
TO GREENSBORO  
 MATCH LINE - SEE ABOVE  
 STA 104+00  
 24" CSP  
 DRY POND ROAD TH #57  
 STA 105+90 = MM 2.00



- 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 #9

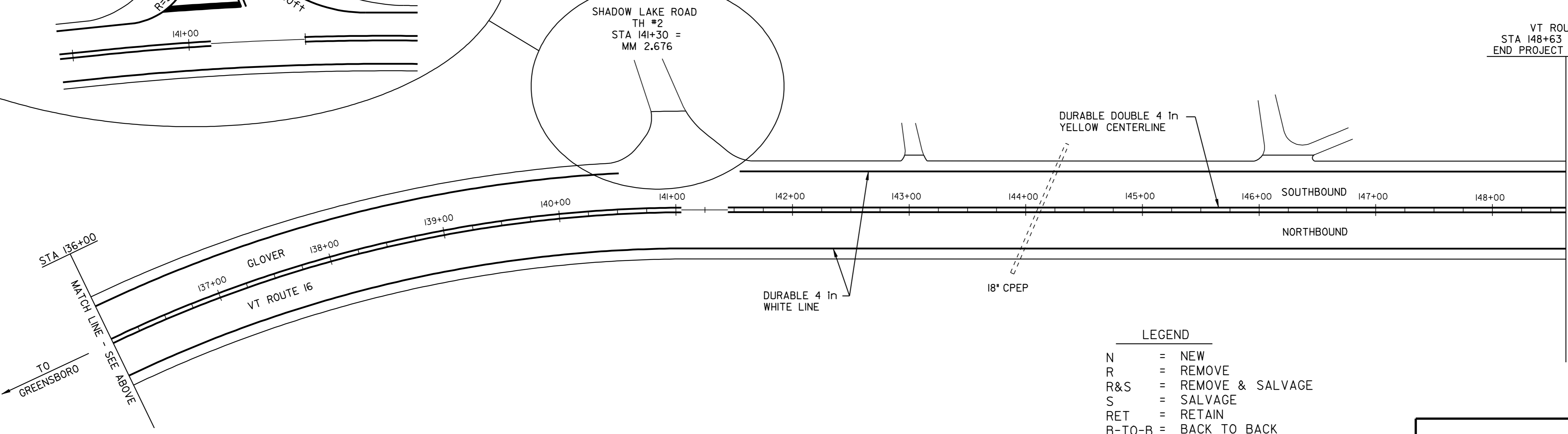
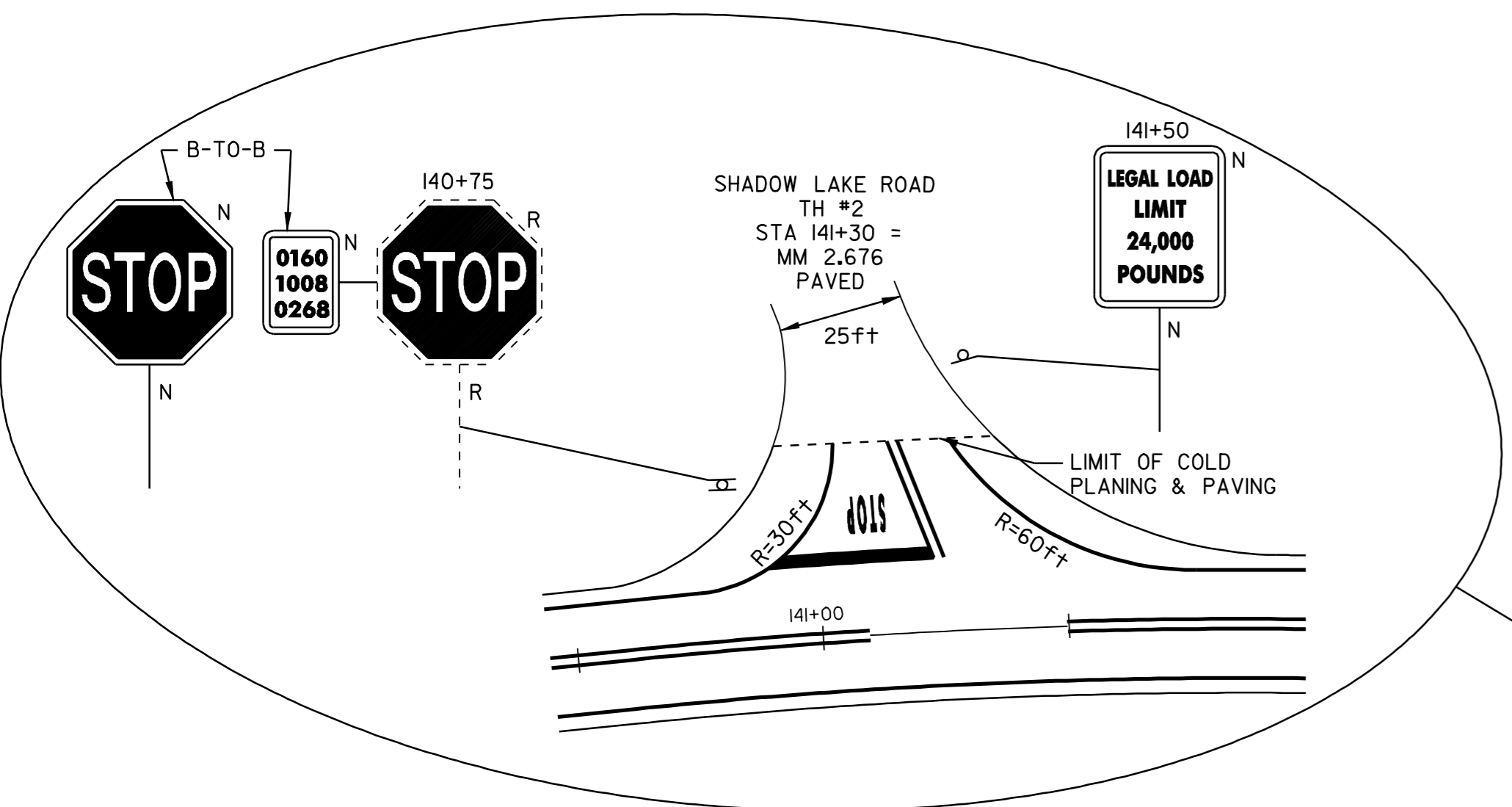
DESIGNED BY BCE/PJM DATE 3-06  
 DRAWN BY C.E.A., INC. DATE 3-06  
 DESIGN FILE NO. p00B056.dgn  
 PRF FILE p00B056I09.1 DATE PLOTTED 15-MAY-2008 14  
 PROJ. NAME **GREENSBORO-GLOVER**  
 PROJ. NO. **STP 2226(1)S**  
 SHEET **16** OF **19** SHEETS



REMOVAL AND DISPOSAL OF GUARD RAIL  
 STA 121+50 TO 126+25 LT

MANUFACTURED TERMINAL SECTION, FLARED  
~~STA 121+30 TO 121+75 LT~~ I21+63 ~ I22+00.5 LT  
~~STA 126+50 TO 126+87 LT~~ I26+75.5 ~ I27+13 LT

STEEL BEAM GUARD RAIL, GALVANIZED  
~~STA 121+75 TO 126+50 LT~~ I22+00.5 ~ I26+75.5 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
  - ⊗/I = UTIL. POLE W/UNDERGROUND UTIL.
  - ⌌ = DRIVE

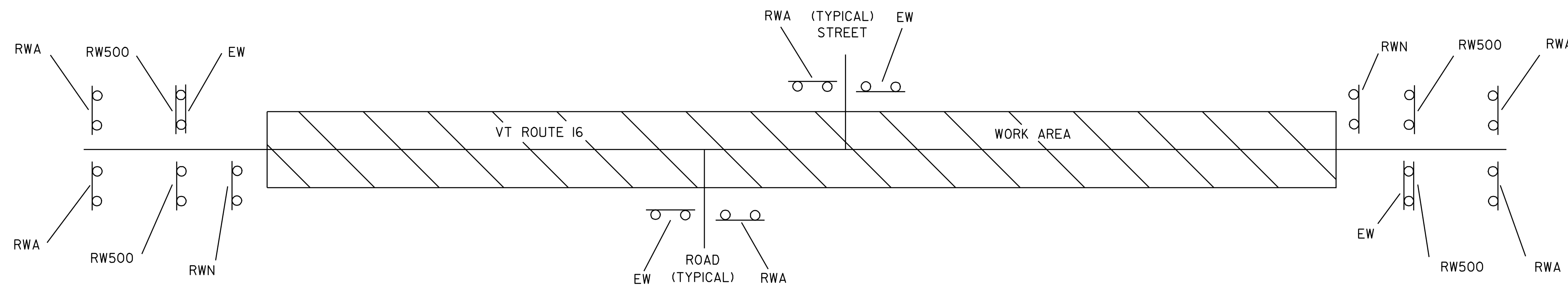
## PAVING PROJECT LAYOUT SHEET #10

DESIGNED BY	BCE/PJM	DATE	3-06
DRAWN BY	C.E.A., INC.	DATE	3-06
DESIGN FILE NO.	p00B056.dgn		
PRF FILE	p00B056110.1	DATE PLOTTED	15-MAY-2008 14
PROJ. NAME	<b>GREENSBORO-GLOVER</b>		
PROJ. NO.	<b>STP 2226(1)S</b>		
SHEET	17	OF	19 SHEETS

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			lb/ft			FOUNDATION	lb/ft				FTG. SIZE		WEIGHT	POST SIZE				
											1.12	2.0	3.0	1.75	2.0	2.5		3.0	4.0	4.0 MOD.	3.0	3.5	4.0						5.0
GLOVER 105+05 RT		1	24	30	5.0					1			X		X												REFER TO STANDARD E-121 FOR PLACEMENT.		E-141
105+75 RT		1	30	30	6.25					1			X		X												BACK TO BACK		E-143 E-138
140+75 LT		1	30	30	6.25					1			X		X												BACK TO BACK		E-143 E-138
141+50 LT		1	24	30	5.0					1			X		X												REFER TO STANDARD E-121 FOR PLACEMENT.		E-141

LIST OF  
CONSTRUCTION SIGNS

TOWN HIGHWAY	RWA	RW500	EW	RWN
GREENSBORO				
BEGIN PROJECT	2	2	1	1
GLOVER				
SQUARE ROAD - TH#57	1		1	
SHADOW LAKE ROAD - TH#2	1		1	
END PROJECT	2	2	1	1
TOTALS	6	4	4	2



LEGEND

- RWA = ROAD WORK AHEAD
- RW500 = ROAD WORK 500 FEET
- EW = END WORK
- RWN = ROAD WORK NEXT 5 1/2 MILES

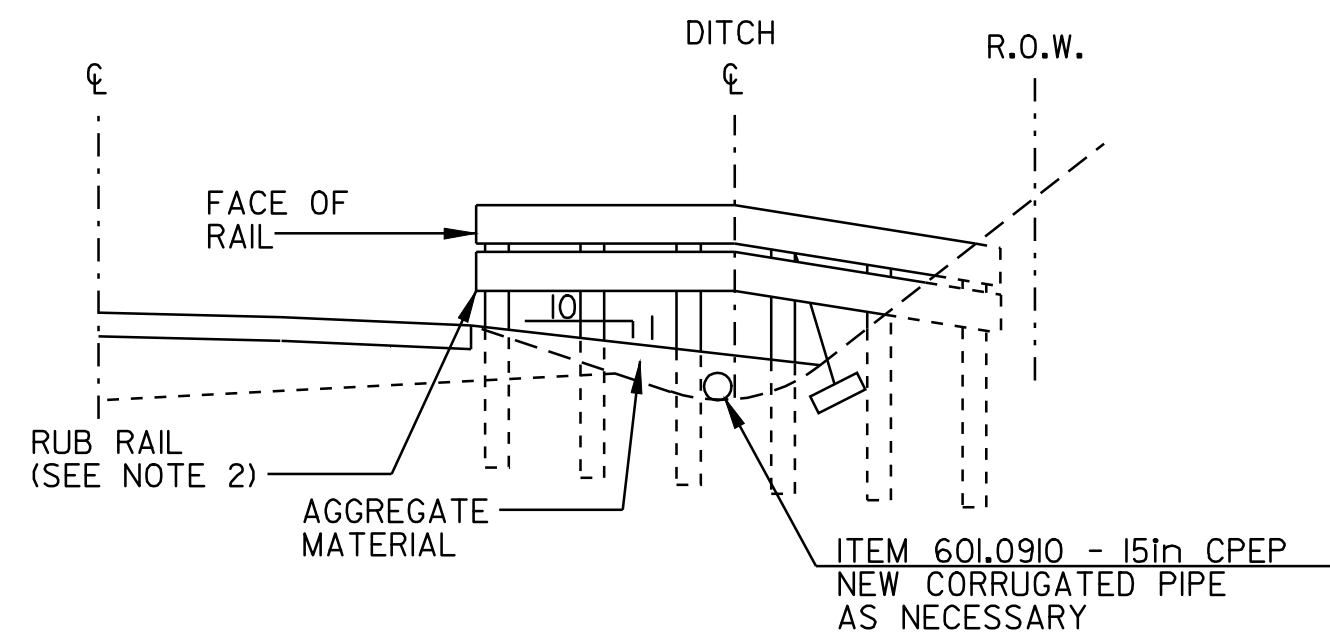
**CONSTRUCTION APPROACH SIGNING**

SEE STD. E-100 FOR SIGN PLACEMENT

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

NOTE:

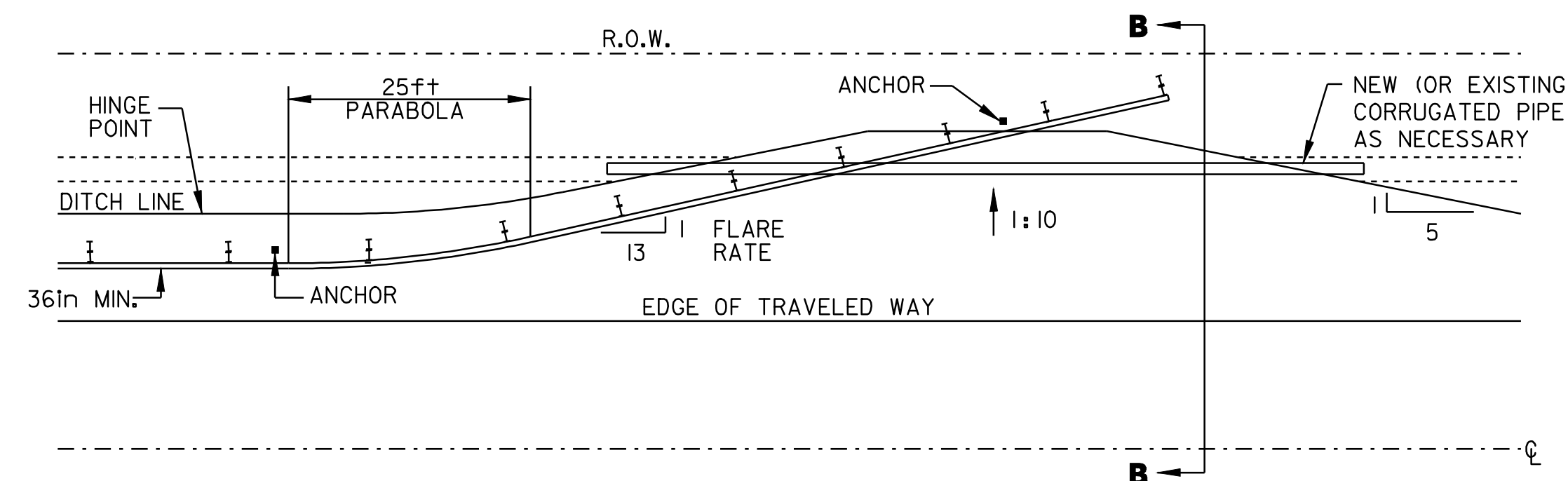
THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH STANDARD E-103 AND MUTCD PART 6, FIGURE 6H-10. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.



NOTES:

1. PRIMARY RAIL SHALL REMAIN AT A CONSTANT HEIGHT RELATIVE TO ROADWAY GRADE TO POINT OF DITCH BOTTOM.
2. ADDITION OF RUB RAIL IS REQUIRED WHEN OPENING BENEATH PRIMARY RAIL EXCEEDS 18in. RUB RAIL EXTENDS FROM THE EDGE OF SHOULDER TO THE BACK SLOPE.

SECTION B-B



**DETAIL FOR BURIED GUARDRAIL ENDS INTO BACKSLOPES**

NOT TO SCALE  
STA 8+07 LT GLOVER  
STA 114+66 LT GLOVER

**CONSTRUCTION APPROACH  
SIGNING & BURIED END  
TERMINAL DETAIL SHEET**

DESIGNED BY BCE/PJM DATE 4-06  
 DRAWN BY C.E.A., INC. DATE 4-06  
 DESIGN FILE NO. p00B056.dgn  
 PRF FILE p00B056cas.1 DATE 15-MAY-2008 14:54  
 PROJ. NAME **GREENSBORO - GLOVER**  
 PROJ. NO. **STP 2226(1)S**  
 SHEET **19** OF **19** SHEETS

DATUM  
 VERTICAL N/A  
 HORIZONTAL N/A