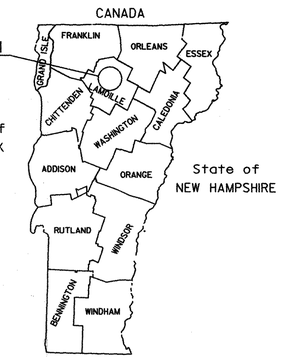
STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROPOSED IMPROVEMENTS
TOWNS OF JOHNSON AND HYDE PARK
COUNTY OF LAMOILLE
VT ROUTE 100C

BEGINNING IN THE TOWN OF JOHNSON AT STA 0+00 (MM 0.000) AND EXTENDING NORTHERLY ALONG VT ROUTE 100C THROUGH THE TOWN OF JOHNSON AND INTO THE TOWN OF HYDE PARK FOR A DISTANCE OF APPROXIMATELY 24,261 FEET (4.595 MILES) TO THE END OF VT ROUTE 100C AT THE INTERSECTION WITH VT ROUTE 100, STA 4+59, MM 0.087.

PROJECT LOCATION
STP 2215(1)S



RECORD PLANS

CONTRACTOR: PIKE INDUSTRIES BERLIN, VT

RESIDENT ENGINEER: JON P. DAY

CONSTRUCTION BEGAN:

CONSTRUCTION COMPLETE:

RECORD PLANS BY: JON P. DAY & MIKE BOOTH

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

BY Jonathan Day RESIDENT ENGINEER

DATE 12/31/08

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.

N

VT STATE PLANE GRID

TRAFFIC DATA

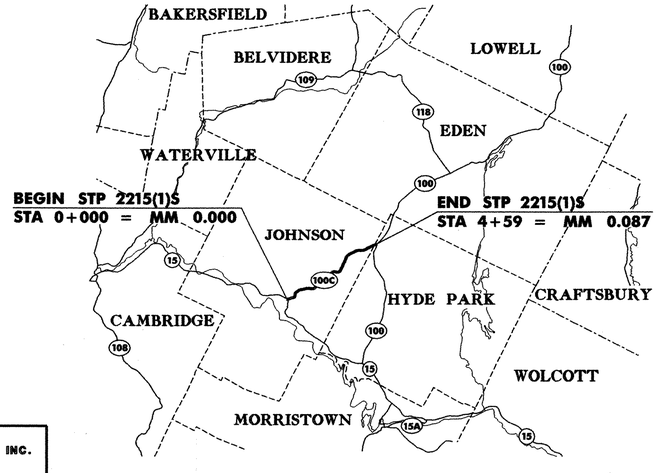
SECTION	ADT 2008	ADT 2018	DHV 2008	DHV 2018	FLEXIBLE ESAL'S (2008-2018)	FLEXIBLE ESAL'S (2008-2028)
BEGIN PROJECT TO SINCLAIR ROAD	4,200	5,100	470	570	1,300,000	3,510,000
SINCLAIR ROAD TO END PROJECT	3,000	3,600	340	410	962,000	2,293,000

JOHNSON - HYDE PARK VT ROUTE 100C, MM 0.000 TO MM 0.087	
BITUMINOUS CONCRETE PAVEMENT SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL	1,755,000
DESIGN NUMBER OF GYRATIONS	75
PERFORMANCE GRADED ASPHALT BINDER	PG 58-34

STATION TO STATION DATA

	LENGTH (FEET)	LENGTH (MILES)
TOWN OF JOHNSON		
STA 0+00 TO STA 238+02 (MM 0.000 TO MM 4.508)	23,802	4.508
TOWN OF HYDE PARK		
STA 0+00 TO STA 4+59 (MM 0.000 TO MM 0.087)	459	0.087
PROJECT TOTALS	24,261	4.595

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



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VERMONT AGENCY OF TRANSPORTATION

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

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

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

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

DIRECTOR OF PROGRAM DEVELOPMENT

APPROVED _____ DATE 11/13/07

PROJECT MANAGER : TED DOMEY

PROJECT NAME : **JOHNSON - HYDE PARK**

PROJECT NUMBER : **STP 2215(1)S**

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

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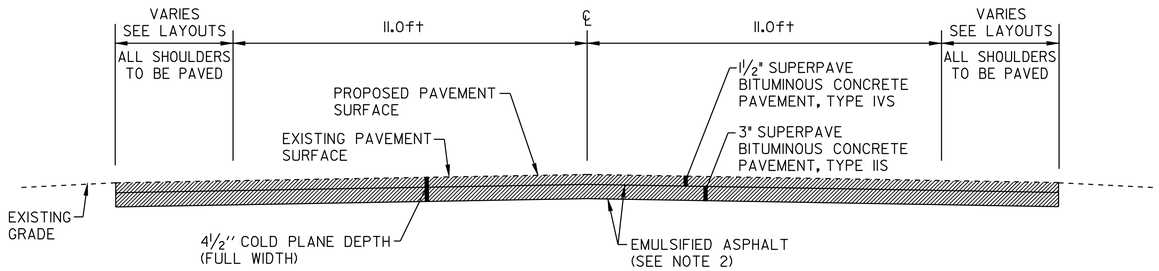
CONVENTIONAL SYMBOLS

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

DATUM
VERTICAL N/A
HORIZONTAL N/A

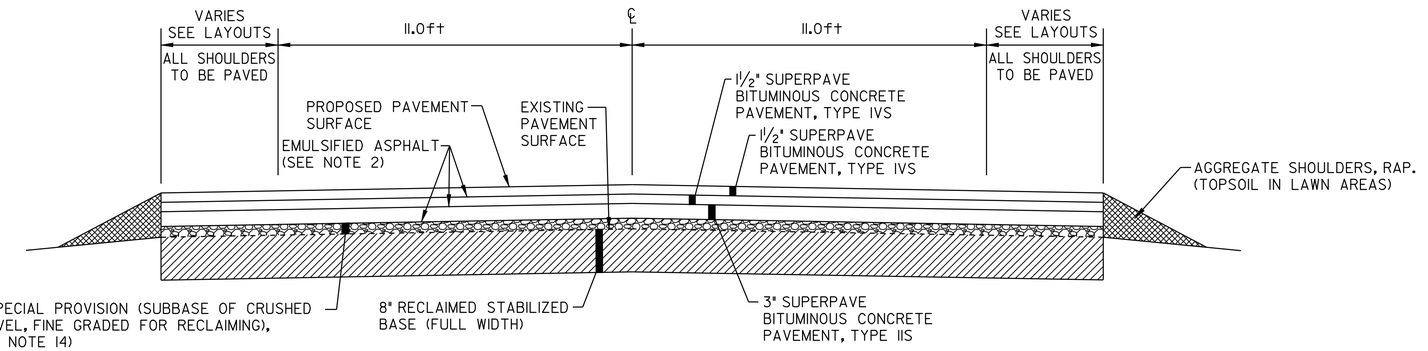
BY: STATE OF VERMONT J. CLARKE ELLIOTT 15694 REGISTERED PROFESSIONAL ENGINEER

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



COLD PLANED TYPICAL SECTION

JOHNSON
0+00 TO 54+90



RECLAIM TYPICAL SECTION

JOHNSON
54+90 TO 238+02
HYDE PARK
STA 0+00 TO 4+59

PROJECT PAVING LIMITS

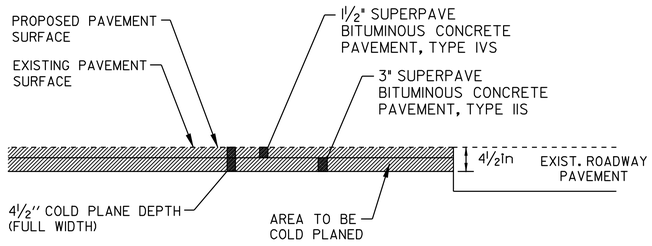
TOWN & ROUTE	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING Tons	NOTES
JOHNSON - VT ROUTE 100C	0+00	54+90	VARIES -11.0FT-11.0FT- VARIES	1½in	--	COLD PLANE 4½", PAVE w/3" TYPE IIS AND 1½" TYPE IVS.
	54+90	238+02	VARIES -11.0FT-11.0FT- VARIES	1½in	--	RECLAIM 8", MIX 2" SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL, FINE GRADED FOR RECLAIMING), IN RECLAIM AREA, PAVE w/ 3" TYPE IIS, & 2 - LIFTS 1½" TYPE IVS.
HYDE PARK - VT ROUTE 100C	0+00	4+59	VARIES -11.0FT-11.0FT- VARIES	1½in	--	RECLAIM 8", MIX 2" SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL, FINE GRADED FOR RECLAIMING), IN RECLAIM AREA, PAVE w/ 3" TYPE IIS, & 2 - LIFTS 1½" TYPE IVS.

NOTES

1. THE PAVEMENT WEARING COURSE SHALL BE TYPE IVS. ALL ASPHALT CEMENT USED IN THE BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 58-34.
2. EMULSIFIED ASPHALT, TYPE RS-1, SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES, (NOT INCLUDING RECLAIMING SURFACES) BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED SURFACES AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER. EMULSIFIED ASPHALT, TYPE RS-1, SHALL BE APPLIED TO THE FINE GRADED RECLAIMED SURFACE FOR THE PURPOSE OF DUST CONTROL AT A RATE OF 0.10 TO 0.15 GAL/SY. QUANTITIES OF EMULSIFIED ASPHALT TO BE USED FOR DUST CONTROL HAVE BEEN ESTIMATED AT 0.125 GAL/SY. PAYMENT WILL BE UNDER ITEM EMULSIFIED ASPHALT.
3. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/-¼in (TOTAL THICKNESS EXCLUDING LEVELING).
4. PRIOR TO RECLAIMING, EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE RESIDENT ENGINEER WILL BE EXCAVATED TO A DEPTH OF 3 In +/- OR AS DIRECTED BY THE RESIDENT ENGINEER. EXCAVATED MATERIAL WILL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT, AS DIRECTED BY THE RESIDENT ENGINEER. THIS WORK WILL BE PAID FOR USING THE APPROPRIATE RENTAL ITEMS SUCH AS ALL PURPOSE EXCAVATOR RENTAL, TYPE I, POWER GRADER RENTAL, LOADER RENTAL, TYPE I, TRUCK RENTAL, AND POWER BROOM RENTAL, TYPE I. THE METHOD OF REMOVAL AND THE USE OF RENTAL ITEMS SHALL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO ANY WORK BEING DONE. MATERIAL REMOVED SHALL BE REPLACED WITH SUBBASE OF CRUSHED GRAVEL, FINE GRADED.
5. THREE FEET OF BACKING IS REQUIRED BEHIND THE FACE OF GUARD RAIL WITH 6ft POSTS. IF THIS CANNOT BE OBTAINED THEN 8ft POSTS SHALL BE USED.
6. STEEL BEAM GUARD RAIL WITH STEEL POSTS SHALL BE USED ON THIS PROJECT.
7. COLD PLANING TO BE COMPLETED ACCORDING TO THE TYPICAL OR AS NOTED OTHERWISE ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGIN/END AND AT ALL SIDE ROAD APPROACHES AS DENOTED ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. ALL BUTT JOINTS SHALL BE SAW CUT, INCIDENTAL TO ITEM 210.10.
8. ITEMS 604.412, 604.42, & 629.20 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, MANHOLES, AND WATER VALVES SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW FINISH GRADE ELEVATION IS LEVEL WITH THE SURROUNDING TERRAIN.
9. ALL EDGES OF PAVEMENT SHALL BE BACKED UP FULL HEIGHT WITH AGGREGATE SHOULDERS, RAP AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.13, AGGREGATE SHOULDERS, RAP.
10. ALL DRIVES SHALL RECEIVE A PAVED APRON TO THE SIDEWALK, OR AS DIRECTED BY THE RESIDENT ENGINEER. ANY REQUIRED EXCAVATION SHALL BE AS DIRECTED AND WILL BE PAID FOR UNDER CONTRACT ITEM 210.10 OR THE APPLICABLE RENTAL ITEM(S). IF REQUIRED, A NEW SUBBASE SHALL BE CONSTRUCTED AND WILL BE PAID FOR UNDER ITEM 301.28, SUBBASE OF CRUSHED GRAVEL, FINE GRADED. A NEW BITUMINOUS SURFACE SHALL BE CONSTRUCTED AS DIRECTED AND WILL BE PAID FOR UNDER ITEM 490.30. ESTIMATED QUANTITIES OF THE ABOVE ITEMS HAVE BEEN INCLUDED TO PAY FOR THIS WORK.
11. ESTIMATED QUANTITIES OF ITEMS 608.25, ALL PURPOSE EXCAVATOR RENTAL, TYPE I, 608.37, TRUCK RENTAL, AND 608.40, LOADER RENTAL, TYPE I HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARD RAIL END SECTION FLARES WITH EXCAVATED DITCHING MATERIAL. AN ESTIMATED QUANTITY OF 203.30, EARTH BORROW HAS BEEN INCLUDED IN THE CASE THAT THE DITCHING MATERIAL IS NOT SUITABLE TO USE IN THE GUARD RAIL END SECTION FLARE. 25 CUBIC YARDS OF EARTH BORROW HAS BEEN ESTIMATED FOR EACH NEW GUARD RAIL END SECTION FLARE. GUARD RAIL END SECTION FLARES SHALL BE CAPPED WITH AN ESTIMATED 3" DEPTH OF AGGREGATE SHOULDERS,RAP, UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 5 TONS OF ITEM 402.13, AGGREGATE SHOULDERS,RAP, FOR EACH NEW GUARD RAIL END SECTION FLARE. ITEM 653.20, TEMPORARY EROSION MATTING, SHALL BE PLACED ON SLOPES GREATER THAN 1:6 CREATED BY THE GUARD RAIL END SECTION FLARE. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20, TEMPORARY EROSION MATTING FOR EACH NEW GUARD RAIL END SECTION FLARE.
12. 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 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
13. COMPACTION, GRADING, AND CLEAN UP OF ITEM 301.28-SUBBASE OF CRUSHED GRAVEL, FINE GRADED, ITEM 402.13-AGGREGATE SHOULDERS, RAP AND ITEM 651.35-TOPSOIL, IS TO BE INCLUDED IN THE CONTRACT PRICE OF EACH ITEM.
14. AN ESTIMATED THICKNESS OF 2" OF SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL, FINE GRADED FOR RECLAIMING), HAS BEEN INCLUDED FOR THE PROVISION OF IMPROVING GRADATION DEFICIENCIES AND/OR CORRECTING SUPERELEVATION, AS NECESSARY, OR AS DIRECTED BY THE RESIDENT ENGINEER. THIS MATERIAL SHALL BE RECLAIMED INTO THE RECLAIMED STABILIZED BASE. PAYMENT FOR THIS SECOND RECLAIMING OPERATION WILL BE INCIDENTAL TO ITEM 900.680 SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL, FINE GRADED FOR RECLAIMING).
15. STABILIZING AGENT FOR RECLAIMED STABILIZED BASE WILL BE WATER. PAYMENT SHALL BE INCIDENTAL TO ITEM 310.20.
16. AN ESTIMATED QUANTITY OF ITEM 619.17, YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE CULVERT ENDS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE RESIDENT ENGINEER.

PROJECT TYPICAL SHEET #1

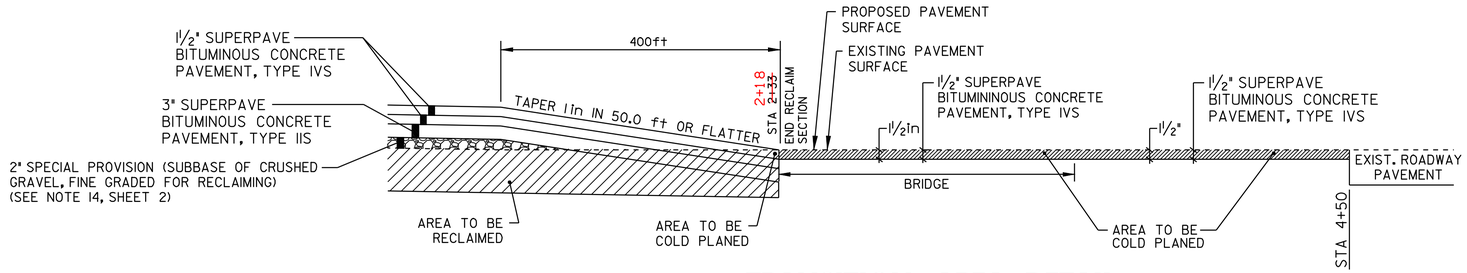
DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p99c182.dgn
PRF FILE p99c182typ1.i DATE PLOTTED 08-JAN-2009
PROJ. NAME **JOHNSON - HYDE PARK**
PROJ. NO. **STP 2215(1)S**
SHEET **2** OF **33** SHEETS



– APPROACH AREA DETAIL –

JOHNSON

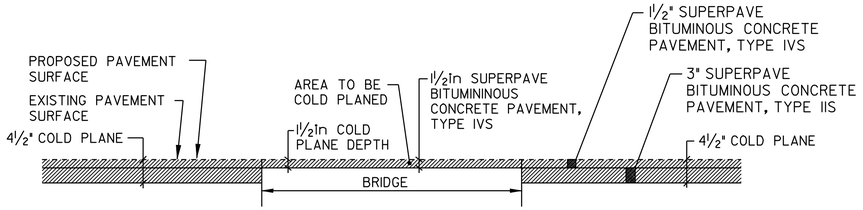
STA 0+35 (BEGIN PROJECT)



– TRANSITION AREA DETAIL –

HYDE PARK

BRIDGE #6 TO END OF PROJECT

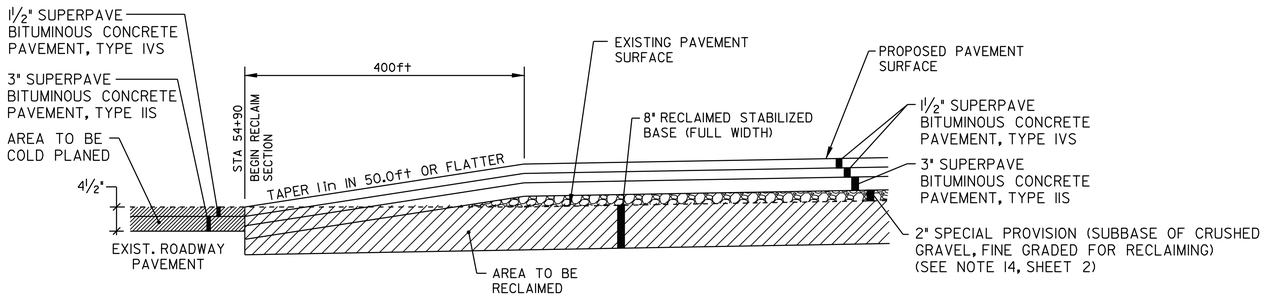


– COLD PLANING DETAIL @ BRIDGES –

JOHNSON

BRIDGE #1 – STA 51+34

BRIDGE #2 – STA 52+82



–TRANSITION AREA DETAIL–

JOHNSON

STA 54+90

(END COLD PLANING/BEGIN RECLAIMING)

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)

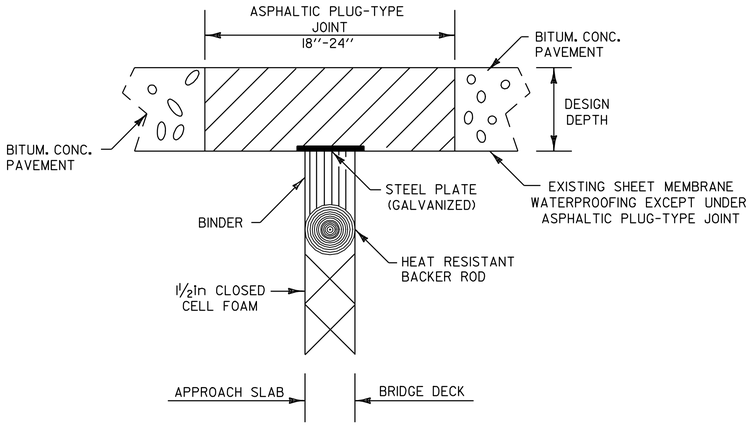
AGRICULTURAL LIMESTONE:
TO BE APPLIED AT THE RATE OF 2.0 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

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 RESIDENT ENGINEER.

PROJECT TYPICAL SHEET #2

DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p99cl82.dgn
PRF FILE p99cl82typ2.1 DATE PLOTTED 08-JAN-2009
PROJ. NAME **JOHNSON – HYDE PARK**
PROJ. NO. **STP 2215(1)S**
SHEET **3** OF **33** SHEETS



– ASPHALTIC PLUG TYPE JOINT DETAIL –

LOCATION

HYDE PARK

BRIDGE #6 (32ft) - STA 2+35
BRIDGE #6 (32ft) - STA 3+30

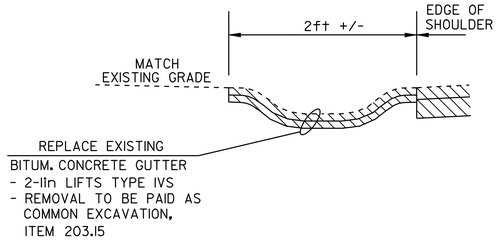
– ASPHALTIC PLUG BRIDGE JOINT – GENERAL NOTES

INSTALLATION:

1. THE JOINT SHALL BE LOCATED CENTRALLY OVER THE DECK EXPANSION GAP OR FIXED JOINT MARKED OUT TO THE MANUFACTURERS RECOMMENDED WIDTH.
2. THE JOINT SHALL BE EXCAVATED AS SHOWN ON THE PLANS BY USE OF SAWS AND PNEUMATIC HAMMER OR A HAMMER AND CHISEL.
3. THE JOINT SHALL BE BLAST CLEANED OF DEBRIS AND ASPHALT. THE JOINT AREA SHALL BE THOROUGHLY DRIED USING HOT COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.
4. SPALLED AND DEFECTIVE CONCRETE SHALL BE REPAIRED WITH AN APPROVED MATERIAL AS AGREED UPON BY THE RESIDENT ENGINEER.
5. PROPERLY SIZED HEAT RESISTANT BACKER ROD SHALL BE PLACED IN THE MOVEMENT GAP ALLOWING FOR 1INCH+/- OF BINDER ABOVE THE ROD.
6. THE BINDER MATERIAL SHALL BE HEATED AND PLACED AS RECOMMENDED BY THE MANUFACTURER.
7. PLACE 1/4INCH THICK BY 8 INCH WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRESTAMPED HOLES INTO THE BACKER ROD AND COVER WITH HOT BINDER.
   a. THE STEEL PLATES MAY BE OMITTED WHERE THE APPROACH SLAB IS COVERED WITH A STONE BASE OR BITUMINOUS PAVEMENT, AND VERTICAL MOVEMENT OF THE PLATES MIGHT OCCUR.
8. THE BINDER MATERIAL AND AGGREGATE SHALL BE HEATED AND MIXED AS RECOMMENDED BY THE MANUFACTURER.
9. THE INSTALLATION OF MATERIAL, COMPACTION AND TOPCOATING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
10. IMMEDIATELY AFTER TOPCOATING, AN ANTI-SKID MATERIAL SHALL BE CAST OVER THE JOINT TO REDUCE THE RISK OF TRACKING.
11. JOINT SHALL BE PROTECTED FROM TRAFFIC UNTIL THE MATERIAL HAS COOLED TO 125 DEGREES F +/-.

WEATHER LIMITATIONS:

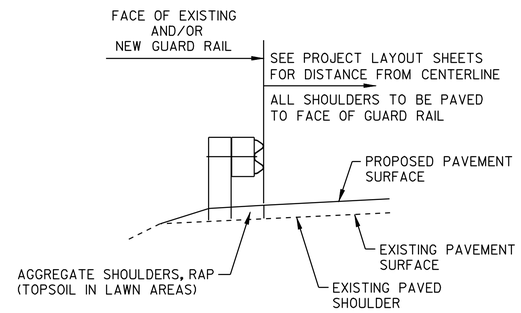
1. BINDER MATERIAL SHALL BE APPLIED ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL:
   a. THE AMBIENT AIR TEMPERATURE IS AT LEAST 50 DEGREES F AND RISING.
   b. THE ROAD SURFACE IS SUFFICIENTLY DRY.
   c. WEATHER CONDITIONS OR OTHER CONDITIONS ARE FAVORABLE AND ARE EXPECTED TO REMAIN SO FOR THE PERFORMANCE OF THE SATISFACTORY WORK.



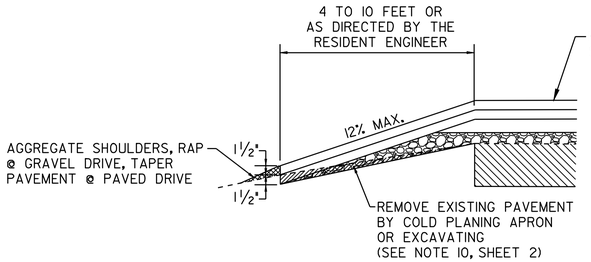
BITUMINOUS CONCRETE GUTTER DETAIL

JOHNSON

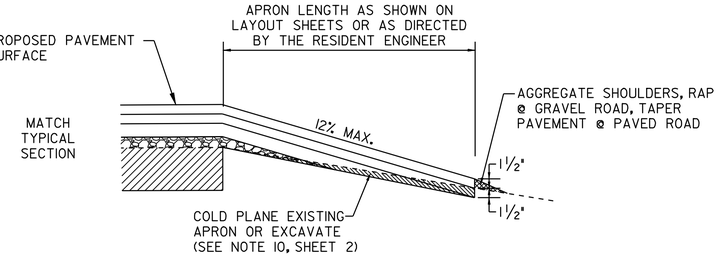
10+25
STA 4+80 TO ~~9+40~~ LT
~~STA 38+40 TO 40+00 LT~~
STA 0+00 TO 2+00 LT
STA 6+65 TO 10+00 RT



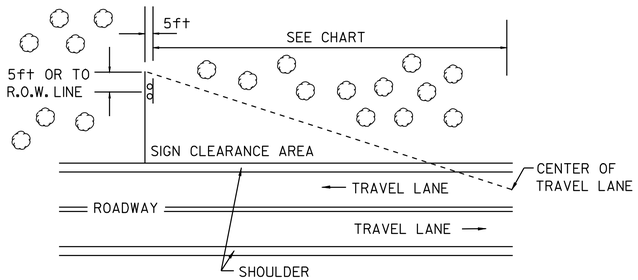
– TYPICAL SECTION AT GUARD RAIL –



DRIVEWAY TRANSITION DETAIL @ RECLAIM AREAS



TOWN HIGHWAY TRANSITION DETAIL @ RECLAIM AREAS



THE CONTRACTOR SHALL REMOVE ALL WOODY STEMMED GROWTH INCLUDING BRUSH, SAPLINGS, TREE LIMBS, GROWING WITHIN OR PROJECTING INTO THE CLEARANCE AREA AND DOWN TO GROUND LEVEL OR AT LEAST 10 FEET BELOW THE BOTTOM OF THE SIGN, WHICHEVER IS LESS. PAYMENT WILL BE FOR THINNING AND TRIMMING FOR SIGNS, ITEM 201.31. AND PAID FOR PER EACH. NO CHEMICALS (POISONS, OR DEFOLIANTS) ALLOWED.

MINIMUM SIGN SIGHT DISTANCE CHART

APPROACH SPEED (mph)	SIGHT DISTANCE (feet)
30 OR LESS	300
35	350
40	400
45	450
50	500
55	550

CLEARING LIMITS FOR SIGNS ON CONVENTIONAL ROADS

PROJECT TYPICAL SHEET #3

DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p99cl82.dgn
PRF FILE p99cl82typ3.1 DATE PLOTTED 08-JAN-2009
PROJ. NAME **JOHNSON - HYDE PARK**
PROJ. NO. **STP 2215(1)S**
SHEET **4** OF **33** SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

APPROXIMATE SUMMARY OF QUANTITIES

EMPLOYEE TRAINEESHIP	FULL CE	NON GOV'T PARTICIPATING	GOV'T PARTICIPATING		QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
			BRIDGE	ROADWAY					
				1	1	EA	THINNING AND TRIMMING FOR SIGNS	201.31	EST
				15	15	CY	COMMON EXCAVATION	203.15	3
				1,250	1,250	CY	EARTH BORROW	203.30	EST
				1	1	CY	TRENCH EXCAV. OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	EST
				19,250	19,250	SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	375
				340	340	TON	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.28	EST
				63,500	63,500	SY	RECLAIMED STABILIZED BASE	310.20	590
				3,000	3,000	TON	AGGREGATE SHOULDERS, RAP.	402.13	EST
				1,000	1,000	CWT	EMULSIFIED ASPHALT	404.65	EST
				1	1	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	--
				28,200	28,200	TON	SUPERPAVE BITUMINOUS CONC. PAVE. (PG 58-34)	490.30	550
				1	1	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	EST
				1	1	LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	EST
				1	1	LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	EST
				1	1	LU	LONG. JOINT COMPACTION PAY ADJUST. (N.A.B.I.)	490.34	EST
			65		65	LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	1
				20	20	LF	15" CPEP	601.0910	EST
				8	8	EA	REHABILITATION OF D.I., C.B. OR M.H. CLASS I	604.412	EST
		3			3	EA	CHANGING ELEVATION OF SEWER MANHOLES	604.42	EST
				50	50	HR	POWER GRADER RENTAL	608.15	EST
				260	260	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST
				50	50	HR	POWER BROOM RENTAL, TYPE I	608.30	EST
				20	20	HR	POWER BROOM RENTAL, TYPE II	608.31	EST
				520	520	HR	TRUCK RENTAL	608.37	EST
				70	70	HR	LOADER RENTAL, TYPE I	608.40	EST
				10	10	MGAL	DUST CONTROL WITH WATER	609.10	--
				775	775	CY	STONE FILL, TYPE I	613.10	EST
				120	120	LF	TREATED TIMBER CURB	616.35	--
				25	25	TON	BITUMINOUS CONC. GUTTERS & TRAFFIC ISLANDS	616.47	1
				1	1	EA	RELOCATE MAILBOX, SINGLE SUPPORT	617.10	--
				10	10	EA	YIELDING MARKER POST	619.17	EST
				3,450	3,450	LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	50
				3,050	3,050	LF	STEEL BEAM GUARDRAIL, GALVANIZED W/8FT POSTS	621.205	25
				33	33	EA	MANUFACTURED TERMINAL SECTION, FLARED	621.50	--
				1	1	EA	MANUFACTURED TERMINAL SECTION, TANGENT	621.51	--
				8	8	EA	TERMINAL CONNECTOR FOR STEEL BEAM GUARD RAIL	621.53	--
				11	11	EA	ANCHOR FOR STEEL BEAM RAIL	621.60	--
				4	4	EA	GUARD RAIL APPROACH SECTION, GALV., TYPE I	621.70	--
				7,500	7,500	LF	REMOVAL AND DISPOSAL OF GUARD RAIL	621.80	24.5
		3			3	EA	ADJUST ELEVATION OF VALVE BOX	629.20	--

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COLD PLANING - BITUMINOUS PAVEMENT
16,980	SY	JOHNSON - COLD PLANE SECTION
710	SY	HYDE PARK, BRIDGE #6 - END OF PROJECT
885	SY	TOWN HIGHWAYS
300	SY	DRIVES
375	SY	ROUNDING
19,250	SY	TOTAL
		SUPERPAVE BITUMINOUS CONC. PAVEMENT (PG 58-34)
		TYPE IVS (BINDER)
5,450	TON	JOHNSON
80	TON	HYDE PARK
120	TON	TOWN HIGHWAYS
40	TON	DRIVES
		TYPE IVS (WEARING)
7,080	TON	JOHNSON
150	TON	HYDE PARK
120	TON	TOWN HIGHWAYS
40	TON	DRIVES
		TYPE IIS
14,110	TON	JOHNSON
150	TON	HYDE PARK
230	TON	TOWN HIGHWAYS
80	TON	DRIVES
550	TON	ROUNDING
28,200	TON	TOTAL

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		SUBBASE OF CRUSHED GRAVEL, FINE GRADED
340	TON	ESTIMATED QUANTITIES FOR DRIVES/TH'S
		RECLAIMED STABILIZED BASE
62,110	SY	JOHNSON
800	SY	HYDE PARK
590	SY	ROUNDING
63,500	SY	TOTAL
		STONE FILL, TYPE I
100	CY	ITEM DETAIL SHEET
675	CY	DITCH CLEANING DETAIL SHEET
775	CY	TOTAL
		TEMPORARY EROSION MATTING
850	SY	GUARD RAIL END FLARE
850	SY	DITCH CLEANING DETAIL SHEET
1,700	SY	TOTAL
		SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL, FINE GRADED FOR RECLAIMING)
7,060	TON	JOHNSON RECLAIM SECTION
100	TON	HYDE PARK RECLAIM SECTION
40	TON	ROUNDING
7,200	TON	TOTAL
		EMULSIFIED ASPHALT
350	CWT	USED AS TACK COAT
650	CWT	USED FOR DUST CONTROL
1,000	CWT	TOTAL

STATIONS		PAVEMENT WIDTHS			EQUATIONS		FEET	MILES	REMARKS
FROM	TO				+	-			

TOTALS

QUANTITY SHEET #1

PROJECT NAME **JOHNSON - HYDE PARK** p99cl82.dgn
PROJECT NUMBER **STP 2215(1)S** p99cl82qsl.l

DATE PLOTTED 08-JAN-2009
SHEET **5** OF **33** SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 2

APPROXIMATE SUMMARY OF QUANTITIES

EMPLOYEE TRAINEESHIP	FULL CE	NON GOV'T PARTICIPATING	GOV'T PARTICIPATING BRIDGE	GOV'T PARTICIPATING ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
				1,000	1,000	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST
				4,000	4,000	HR	FLAGGERS	630.15	EST
	1				1	LS	FIELD OFFICE, ENGINEERS	631.10	--
	1				1	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	--
	1				1	LU	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.25	EST
				1	1	LS	MOBILIZATION/DEMOBILIZATION	635.11	EST
				1	1	LS	TRAFFIC CONTROL	641.10	EST
				48,500	48,500	LF	DURABLE 4 IN WHITE LINE, THERMOPLASTIC	646.402	--
				46,000	46,000	LF	DURABLE 4 IN YELLOW LINE, THERMOPLASTIC	646.412	--
				170	170	LF	DURABLE 24 IN STOP BAR, THERMOPLASTIC	646.482	--
				54	54	EA	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	--
				97,000	97,000	LF	TEMPORARY 4 IN WHITE LINE, PAINT	646.602	EST
				92,000	92,000	LF	TEMPORARY 4 IN YELLOW LINE, PAINT	646.612	EST
				310	310	LF	TEMPORARY 24 IN STOP BAR, PAINT	646.682	EST
				100	100	EA	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	--
				1,750	1,750	EA	LINE STRIPING TARGETS	646.76	EST
				3,000	3,000	SY	GEOTEXTILE UNDER STONE FILL	649.31	100
				120	120	LB	SEED	651.15	EST
				1,000	1,000	LB	FERTILIZER	651.18	EST
				4	4	TON	AGRICULTURAL LIMESTONE	651.20	EST
				4	4	TON	HAY MULCH	651.25	EST
				50	50	CY	TOPSOIL	651.35	EST
				1,700	1,700	SY	TEMPORARY EROSION MATTING	653.20	17
				42	42	SF	TRAFFIC SIGNS, TYPE A	675.20	0.91
							- BEGIN OPTION ITEMS -		
				210	210	LF	FLANGED CHANNEL SIGN POSTS	675.301	EST
				210	210	LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	EST
							- END OPTION ITEMS -		
				19	19	EA	REMOVING SIGNS	675.50	--
				6	6	EA	ERECTING SALVAGED SIGNS	675.60	--
				50	50	EA	DELINEATORS WITH STEEL POST	676.10	EST
				1	1	EA	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	EST
				7,200	7,200	TON	SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL, FINE GRADED FOR RECLAIMING)	900.680	EST

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

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

TOTALS

QUANTITY SHEET #2

PROJECT NAME **JOHNSON - HYDE PARK** p99cl82.dgn
PROJECT NUMBER **STP 2215(1)S** p99cl82qs2.1

DATE PLOTTED 08-JAN-2009

ITEM DETAIL SUMMARY SHEET 1

LOCATION			MISCELLANEOUS ITEMS								DRAINAGE ITEMS					613.11	GUARD RAIL ITEMS											REMARKS
STA	STA	POS.	201.31 THINNING AND TRIMMING FOR SIGNS	203.15 COM. EXCAV.	203.30 EARTH BORROW		402.13 AGG. SHOULD. RAP.	616.47 B. CONC. GUTTER & TRAF. ISLAND	617.10 RELOCATE MAILBOX SINGLE SUPPORT	900.680 SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL FINE GRADED, FOR RECLAIMING)	604.412 REHAB. D.I. CLASS I	NEW PIPE DIA.	NEW PIPE CSP (0.064)	NEW PIPE RCP	NEW PIPE CPEP	~~613.10~~ STONE FILL, TYPE X II	616.35 TREATED TIMBER CURB	619.17 YIELDING MARKER POSTS	621.20 STEEL BEAM G.R., GALV.	621.205 STEEL BEAM G.R. 8ft POSTS	621.50 MANUF. TERMINAL SECTION, FLARED	621.51 MANUF. TERMINAL SECTION, TANGENT	621.53 TERMINAL CONNECT.	621.60 ANCHOR FOR S.B. RAIL	621.70 GUARD RAIL APPROACH SECTION TYPE I	621.80 REMOVE & DISP. OF GUARD RAIL	676.10 DELIN. w/STEEL POSTS	
			EA	CY	CY		TON	TON	EA	TON	EA	in	LF	LF	LF	CY	LF	EA	LF	LF	EA	EA	EA	EA	EA	LF	EA	
JOHNSON																												
0+00	238+02	LT&RT					2,720			~~7,060~~								10										ESTIMATED QUANTITIES TO BE USED AS DIRECTED
0+69		LT								6,116	1																	BY THE RESIDENT ENGINEER.
0+70		RT									1																	REHAB D.I.
0+00	2+00	LT																										BITUMINOUS CONCRETE GUTTER
4+80	~~9+40~~	LT	10+25	10				20			1																	REHAB D.I., REPLACE EXISTING BITUMINOUS CONCRETE GUTTER.
6+65	10+00	RT																										BITUMINOUS CONCRETE GUTTER
6+66		LT									1																	REHAB D.I.
6+69		RT									1																	REHAB D.I.
10+49																198.6				162.5								
~~10+50~~	17+37	LT			50		10									~~100~~			529	~~687.5~~				2		687.5	2	REPLACE EXISTING STEEL BEAM GUARD RAIL, STONE FILL FOR SLOPE
	26+75																		441.5							425		EROSION @ ~~STA 14+85 TO 16+25~~. STA 15+00 TO 16+75 LT
22+40	~~26+90~~	LT			50		10												~~450~~					2		~~450~~	2	REPLACE EXISTING STEEL BEAM GUARD RAIL.
~~38+40~~	~~40+00~~	~~LT~~		~~2~~				~~1~~																				~~REPLACE EXISTING BITUMINOUS CONCRETE GUTTER~~.
40+31	47+05																		679							675		
~~40+80~~	~~47+17~~	LT			50		10												~~637.5~~					2		~~637.5~~	2	REPLACE EXISTING STEEL BEAM GUARD RAIL.
~~49+10~~		~~RT~~									~~1~~																	REHAB D.I.
50+80	51+18																		14.5					1				
~~50+65~~	~~51+15~~	RT			25		5					~~15~~			~~20~~				~~12.5~~				~~2~~			25	1	REPLACE EXISTING STEEL BEAM GUARD RAIL, INSTALL BURIED END
50+92	51+18																											TERMINAL @ STA 50+65. COORDINATE W/TERMINAL CONNECTOR, SHEET 28.
~~50+90~~	~~51+15~~	LT			25		5												2					1		25	1	REPLACE EXISTING STEEL BEAM GUARD RAIL, COORDINATE W/TERMINAL
51+50	51+76																											CONNECTOR, SHEET 28.
~~51+55~~	~~51+80~~	RT			25		5												2					1		25	1	REPLACE EXISTING STEEL BEAM GUARD RAIL, COORDINATE W/TERMINAL
51+50	51+76																											CONNECTOR, SHEET 28.
~~51+55~~	~~51+80~~	LT			25		5												2					1		25	1	REPLACE EXISTING STEEL BEAM GUARD RAIL, COORDINATE W/TERMINAL
52+33	52+56																											CONNECTOR, SHEET 28.
~~52+30~~	~~52+55~~	LT			25		5												2					1		25	1	REPLACE EXISTING STEEL BEAM GUARD RAIL, COORDINATE W/TERMINAL
52+33	52+56																											CONNECTOR, SHEET 28.
~~52+30~~	~~52+55~~	RT			25		5												2					1		25	1	REPLACE EXISTING STEEL BEAM GUARD RAIL, COORDINATE W/TERMINAL
53+07																			114.5									CONNECTOR, SHEET 28.
~~53+10~~	54+47	LT			25		5												~~112.5~~					1		75	1	REPLACE EXISTING STEEL BEAM GUARD RAIL, COORDINATE W/TERMINAL
53+07	53+45																		14.5									CONNECTOR, SHEET 28.
~~53+10~~	~~53+47~~	RT			25		5												~~12.5~~					1		25	1	REPLACE EXISTING STEEL BEAM GUARD RAIL, COORDINATE W/TERMINAL
60+15	63+67																			354						350		CONNECTOR, SHEET 28.
~~59+97~~	~~63+60~~	LT			50		10													~~362.5~~				2		~~362.5~~	2	REPLACE EXISTING STEEL BEAM GUARD RAIL.
59+83.5	72+25.5																											
~~69+90~~	~~72+27~~	LT			50		10													162.5	2					237.5	2	REPLACE EXISTING STEEL BEAM GUARD RAIL.
69+85	72+22																											
~~69+90~~	~~72+27~~	RT			50		10													162.5	2					237.5	2	REPLACE EXISTING STEEL BEAM GUARD RAIL.
80+00	86+15																		275	250						512.5		
~~80+25~~	~~85+25~~	LT			50		10												~~287.5~~	~~125~~	1	1				~~500~~	2	REPLACE EXISTING STEEL BEAM GUARD RAIL.
122+26	125+38																			225								
~~122+56~~	~~125+44~~	RT			50		10													~~212.5~~	2					287.5	2	REPLACE EXISTING STEEL BEAM GUARD RAIL.
123+50	126+49																											
~~123+42~~	~~126+42~~	LT			50		10												225		2					300	2	REPLACE EXISTING STEEL BEAM GUARD RAIL.
174+00	175+37																			100						79		
~~174+18~~	~~175+30~~	LT			50		10													~~37.5~~	~~2~~ 1			1		~~100~~	2	REPLACE EXISTING CABLE RAIL.
	175+75																			50						67		
174+50	~~175+37~~	RT			50		10													~~12.5~~	2					~~75~~	2	REPLACE EXISTING CABLE RAIL.
182+64	188+53																			387						490		
~~182+62~~	~~186+00~~	RT			50		10		1										125	~~262.5~~	2					~~300~~	2	REPLACE EXISTING CABLE RAIL, RELOCATE MAILBOX, SINGLE SUPPORT @
184+41																				375								STA 184+20.
~~184+40~~	189+65	LT			50		10												75	~~450~~	2					375	2	REPLACE EXISTING CABLE RAIL.
~~186+80~~	~~188+55~~	~~RT~~			~~50~~		~~10~~												~~100~~		~~2~~					~~175~~	~~2~~	REPLACE EXISTING CABLE RAIL.
198+31	202+20																			187.5						315		
~~198+35~~	~~202+22~~	RT			50		10												125	~~312.5~~	2					~~312~~	2	REPLACE EXISTING CABLE RAIL.
198+78	202+00																			250						282		
~~198+70~~	~~201+82~~	LT			50		10													~~237.5~~	2					~~275~~	2	REPLACE EXISTING CABLE RAIL.
	219+91																		375							623		
212+67	~~219+92~~	RT			50		10												~~650~~	297.5	2					~~625~~	2	REPLACE EXISTING CABLE RAIL.
SHEET SUB-TOTALS				12	1,050		2,930	24	1	~~7,060~~		5	15		~~20~~	~~100~~		10	~~2,487.5~~	~~3,025~~	~~25~~	1	8	11		6,187	~~42~~	
										6,116					50	198.6			3003	2963.5	22			17		6,193.5	40	

ITEM DETAIL SUMMARY SHEET #1

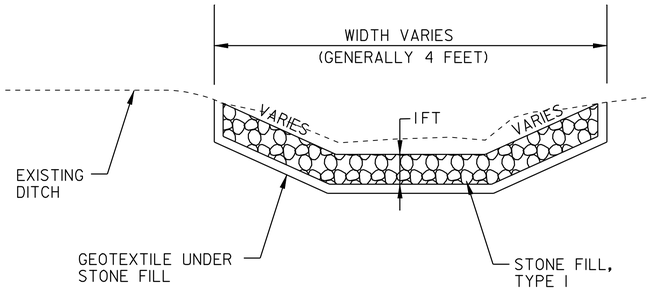
DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p99cl82.dgn
PRF FILE p99cl821dsl.i DATE PLOTTED 08-JAN-2009 0
PROJ. NAME: **JOHNSON - HYDE PARK**
PROJ. NO.: **STP 2215(1)S**
SHEET **7** OF **33** SHEETS

ITEM DETAIL SUMMARY SHEET 2

LOCATION			MISCELLANEOUS ITEMS											DRAINAGE ITEMS						GUARD RAIL ITEMS											REMARKS
STA	STA	POS.	201.31	203.15	203.30		402.13	616.47	617.10	900.680				604.412	NEW PIPE				613.10	616.35	619.17	621.20	621.205	621.50	621.51	621.53	621.60	621.70	621.80	676.10	
			THINNING AND TRIMMING FOR SIGNS	COM. EXCAV.	EARTH BORROW		AGG. SHOULD. RAP.	B. CONC. GUTTER & TRAF. ISLAND	RELOCATE MAILBOX SINGLE SUPPORT	SPECIAL PROVISION (SUBBASE OF CRUSHED GRAVEL FINE GRADED, FOR RECLAIMING)				REHAB. D.I. CLASS I	DIA.	CSP (0.064)	RCP	CPEP	STONE FILL, TYPE I	TREATED TIMBER CURB	YIELDING MARKER POSTS	STEEL BEAM G.R., GALV.	STEEL BEAM G.R. 8ft POSTS	MANUF. TERMINAL SECTION, FLARED	MANUF. TERMINAL SECTION, TANGENT	TERMINAL CONNECT.	ANCHOR FOR S.B. RAIL	GUARD RAIL APPROACH SECTION TYPE I	REMOVE & DISP. OF GUARD RAIL	DELIN. w/STEEL POSTS	
			EA	CY	CY		TON	TON	EA	TON				EA	in	LF	LF	LF	LF	LF	EA	LF	LF	EA	EA	EA	EA	EA	LF	EA	
217+48	220+34																					125							237		
~~217+47~~	~~220+35~~	LT			50		10															~~212.5~~	110	2					~~238~~	2	REPLACE EXISTING CABLE RAIL.
223+15	227+27																					175							330		
~~223+10~~	~~227+22~~	RT			50		10															~~337.5~~	162.5	2					~~338~~	2	REPLACE EXISTING CABLE RAIL.
237+00		LT												1																	REHAB D. I.
238+00		LT												1																	REHAB D. I.
HYDE	PARK																														
0+00	4+59	LT&RT	1				30			~~100~~																					ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.
0+50	2+25	RT			25		5													13		87.5		1				1	175	1	REPLACE EXISTING STEEL BEAM GUARD RAIL, COORDINATE WITH SHEETS 30 & 31.
1+28																															
~~1+30~~	2+42	LT			25		5															25		1				1	112.5	1	REPLACE EXISTING STEEL BEAM GUARD RAIL, COORDINATE WITH SHEETS 30 & 31.
3+20	4+25	RT			25		5							1						~~25~~24		87.5		1				1	175	1	REPLACE EXISTING STEEL BEAM GUARD RAIL, COORDINATE WITH SHEETS 30 & 31.
3+37	4+50	LT			25		5													~~95~~ 96		162.5		1				1	250	1	REPLACE EXISTING STEEL BEAM GUARD RAIL, COORDINATE WITH SHEETS 30 & 31.
																						662.5							1279.5		
SHEET SUB-TOTALS			1	--	200		70	--	--	~~100~~				3	--			--	--	~~120~~	--	~~912.5~~	~~272~~.5	8	--	--	--	4	~~1,208.5~~	8	
ID#1 SUB-TOTALS			--	12	1,050		2,930	24	1	~~7,060~~				5	15			~~20~~50	~~100~~	~~133~~	10	~~2,487.5~~	~~3,025~~	~~25~~22	1	8	~~11~~7	6193.5	~~6,187~~	~~42~~ 40	
PROJECT SUB-TOTALS			1	12	1,250		3,000	24	1	~~7,160~~				8	15			~~20~~50	~~100~~	~~120~~	10	3,400	~~3,025~~	33	1	8	11	4	7,475.5	50	
ROUNDING			--	3	--		--	1	--	~~40~~				--	--			--	--	~~133~~	3883	50	25	2763.5	--	--	--	--	24.5	--	
PROJECT TOTALS			1	15	1,250		3,000	25	1	~~7,200~~				8	15			~~20~~50	~~100~~	~~120~~	10	3,450	3,050	~~33~~	1	8	~~11~~7	4	~~7,500~~	~~50~~ 48	
										6,116										133		3665.5	3236	30					7473		

ITEM DETAIL SUMMARY SHEET #2	DESIGNED BY BCE/PJM DATE 6-07 DRAWN BY C.E.A., INC. DATE 6-07 DESIGN FILE NO. p99cl82.dgn PRF FILE p99cl82ds2.l DATE PLOTTED 08-JAN-2009 0 PROJ. NAME: **JOHNSON - HYDE PARK** PROJ. NO.: **STP 2215(1)S** SHEET **8** OF **33** SHEETS

LOCATION				FEET OF DITCHING				MISC. ITEMS 653.20	MISC. ITEMS 613.10	MISC. ITEMS 649.31	REMARKS
SITE	STATION	STATION	POS.	PERCENT GRADE 0–1	1–2.5	2.5–10	>10	TEMP. EROS. MATT.	STONE FILL TYP. I	GEOT. UNDER STONE FILL	
VT ROUTE 100C, JOHNSON								SY	CY	SY	
DISTRICT #8											
	19+17	22+74							59.5	171	
1	~~12+00~~	~~22+50~~	RT	450	200	400		~~89~~	~~59~~	~~267~~	
	32+26	36+39							110.6	287	
2	~~31+75~~	~~47+25~~	RT	1,150		400			~~59~~	~~267~~	
	37+72	38+65	RT			1,014		235	206.5	530	
3	76+75 70	~~87+00~~	RT	86+84		~~1,025~~			~~152~~	~~683~~	
	93+24	106+19						957			
4	~~88+75~~	~~106+50~~	LT		1,675	100		~~744~~	~~15~~	~~67~~	
	112+56	121+44							210	617	
5	~~110+50~~	~~121+50~~	LT			1,100			~~163~~	~~733~~	
	112+82	114+25									
6	~~113+00~~	~~116+25~~	RT			325		106	~~48~~	~~217~~	
7	~~119+50~~	~~121+25~~	RT			175			~~26~~	~~117~~	
8	~~125+50~~	~~127+50~~	RT			200			~~30~~	~~133~~	
9	~~134+50~~	~~138+00~~	RT			350			~~52~~	~~233~~	
	137+56	139+67		156							
10	~~139+00~~	~~140+00~~	LT	~~100~~				156			
11	164+50	169+00	RT	450							
	176+28	178+64							52.4	164	
12	~~176+50~~	~~179+25~~	LT			275			~~41~~	~~183~~	
13	220+40	222+00	LT	160							
PROJECT SUBTOTALS				2,310	1,875	4,350		~~833~~	~~645~~	~~2,900~~	
ROUNDING				40	25	50		17	30	100	
PROJECT TOTALS				2,350	1,900	4,400		~~850~~	675	~~3,000~~	
	69+67	72+58				291			70	202	
	61+72	62+51						61.4			
	63+03	64+00						75.4			
	72+58	73+24						179.0			
	86+84	88+60									
	129+84	137+56							233.9	534	
	172+00	174+63							68.2	153	
	227+59	230+05						~~310~~			
	230+26	231+98									
	23+10	26+05							32.8	25	
	14+34.5	15+00							16.3	201	
	48+23	48+96							14.9	190	
	49+67	51+17							30.6		
	51+43	52+67							25.3	26	
	HP 0+50	0+72							8.9		
	44+09	48+19							500.9	3100.0	
								304			
								2383.8			
								say			
								2384			



DITCH DETAIL

NOT TO SCALE

NOTES:

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

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

DITCH CLEANING DETAIL SHEET

PROJECT : JOHNSON - HYDE PARK

PROJECT NO. : STP 2215(11)S

DESIGN FILE NAME: p99c182.dgn

IPARM FILE NAME: p99c182dcs.I

PLOT DATE: 08-JAN-2009

SURVEYED BY: CEA

SURVEY DATE:

SQUAD LEADER: BCE

DRAWN BY: PJM

SHEET: 9 OF 33


TEMPORARY 4in YELLOW LINE (PAINT)
DURABLE 4in YELLOW LINE (THERMOPLASTIC)
STA ~~0+40~~ 0+35 TO 11+50 SOLID LT&RT
(WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)
TEMPORARY 4in WHITE LINE (PAINT)
DURABLE 4in WHITE LINE (THERMOPLASTIC)
STA ~~0+40~~ 0+00 TO 11+50 SOLID LT&RT
(WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)
TEMPORARY LETTER OR SYMBOL (PAINT)
DURABLE LETTER OR SYMBOL (THERMOPLASTIC)
STA ~~0+46~~ LT 0+56 "STOP"
STA 6+00 LT "STOP AHEAD"
TEMPORARY 24in STOP BAR (PAINT)
DURABLE 24in STOP BAR (THERMOPLASTIC)
STA 0+40 LT VT ROUTE 100C
VT ROUTE 100C
STA 0+00 = MM 0.000
BEGIN PROJECT STP 2215(1)S
BITUMINOUS CONCRETE GUTTER
STA 0+00 TO 2+00 LT
CHANGE ELEVATION OF SEWER MANHOLE
STA 10+63 LT DONE BY TOWN OF JOHNSON
BITUMINOUS CONCRETE GUTTER
STA 4+80 TO ~~9+40~~ 10+25 LT
REHABILITATION OF D.I.'S, C.B.'S, OR M.H.'S
STA 0+70 RT
STA 4+80 LT
STA 6+66 LT
STA 6+69 RT
STA 0+69 LT
ADJUST ELEVATION OF VALVE BOX
STA 0+65 C.L. DONE BY TOWN OF JOHNSON
~~STA 6+76 RT~~
~~STA 8+17 LT~~
LIMIT OF COLD PLANING & PAVING
0+95
B-TO-B
RET
0150
0806
0428
1003
0806
0000
STOP
EX. BITUM. CONC. S.W.
M.H. (N.W.)
(N.W.)
W.V.
1+00
1+20
4ft
5ft
EX. PAVE. WIDTH
29.5ft
11ft
3ft
2+00
VT ROUTE 100C
3+00
4+00
JOHNSON
SOUTHBOUND
NORTHBOUND
EX. PAVE. WIDTH
25.0ft
DURABLE DOUBLE 4in YELLOW CENTERLINE
DURABLE 4in WHITE LINE
C.S. (N.W.)
2.0ft
2ft
REHAB
5+00
1.5ft
STA 5+50
MATCH LINE - SEE BELOW
TO HYDE PARK
VT ROUTE 15
GRAVEL
REHAB
EXISTING CONCRETE SIDEWALK
W.V. (2) (N.W.)
C.S. (N.W.)
MAINTAIN EXISTING SIDEWALK RAMP, AND DETECTABLE WARNING SURFACE
1+35
REMOVAL AND DISPOSAL OF GUARD RAIL
STA ~~10+50~~ 10+49 TO 11+50 LT
STEEL BEAM GUARD RAIL ~~W/8 FOOT POSTS, GALVANIZED~~
STA ~~10+50~~ 10+49 TO 11+50 LT
ANCHOR FOR STEEL BEAM RAIL
STA ~~10+50~~ 10+49 LT
STA ~~10+50~~ 10+49 LT
INSTALL ANCHOR FOR STEEL BEAM RAIL
STA ~~10+50~~ 10+49 TO 11+50 LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED ~~W/8 FOOT POSTS~~
STA ~~10+50~~ 10+49 TO 11+50 LT
REMOVAL AND DISPOSAL OF GUARD RAIL
THE ASPHALT CEMENT FAILED IN THE BASE LIFT (TYPE II) FROM STA. 0+45 ~ 11+50 LT&RT
6+00
STA 5+50
MATCH LINE - SEE ABOVE
BITUMINOUS CONCRETE GUTTER 10+25
STA 4+80 TO ~~9+40~~ LT
(SEE DETAIL, SHEET 4)
DURABLE DOUBLE 4in YELLOW CENTERLINE
REHAB
3ft
2ft
C.S.
AHEAD
STOP
VT ROUTE 100C
20
7+00
EX. PAVE. WIDTH
28.0ft
11ft
8+00
9+00
SOUTHBOUND 10+00
NORTHBOUND
JOHNSON
W.V.
REHAB
DURABLE 4in WHITE LINE
4ft
M.H.
EX. PAVE. WIDTH
27.0ft
11+00
16ft
14.5ft
2
CONCRETE BLOCK RETAINING WALL
STA 11+50
MATCH LINE - SEE NEXT SHEET
TO HYDE PARK
BITUMINOUS CONCRETE GUTTER STA. 6+65 ~ 10+00 RT
TO JOHNSON VILLAGE

PAVEMENT CORES -

#	TOTAL DEPTH (in)	DRAINABLE BASE	SOLID CORE	COMMENTS
1	8.0	NO	NO	APPEARS TO BE TREATED GRAVEL
20	13.0	NO	YES	--
2	11.0	NO	YES	CONCRETE RETAINING WALL

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

LEGEND

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

PAVING PROJECT LAYOUT SHEET #1

DESIGNED BY BCE/PJM DATE 7-07
DRAWN BY C.E.A., INC. DATE 7-07
DESIGN FILE NO. p99c182.dgn
PRF FILE p99c182p101.i DATE PLOTTED 08-JAN-2009
PROJ. NAME JOHNSON-HYDE PARK
PROJ. NO. STP 2215(1)S

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

STA 11+50 TO 22+00	SOLID LT&RT
STA 19+80	DOUBLE SOLID LT

(WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

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

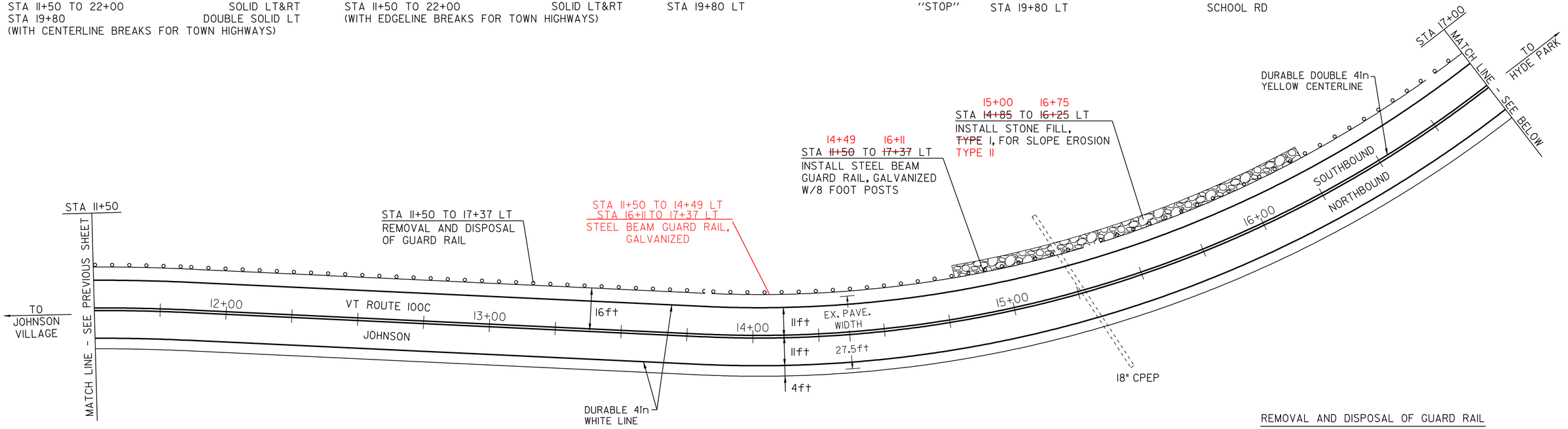
STA 11+50 TO 22+00 SOLID LT&RT
(WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY LETTER OR SYMBOL (PAINT)
DURABLE LETTER OR SYMBOL (THERMOPLASTIC)

STA 19+80 LT "STOP"

TEMPORARY 24in STOP BAR (PAINT)
DURABLE 24in STOP BAR (THERMOPLASTIC)

STA 19+80 LT SCHOOL RD

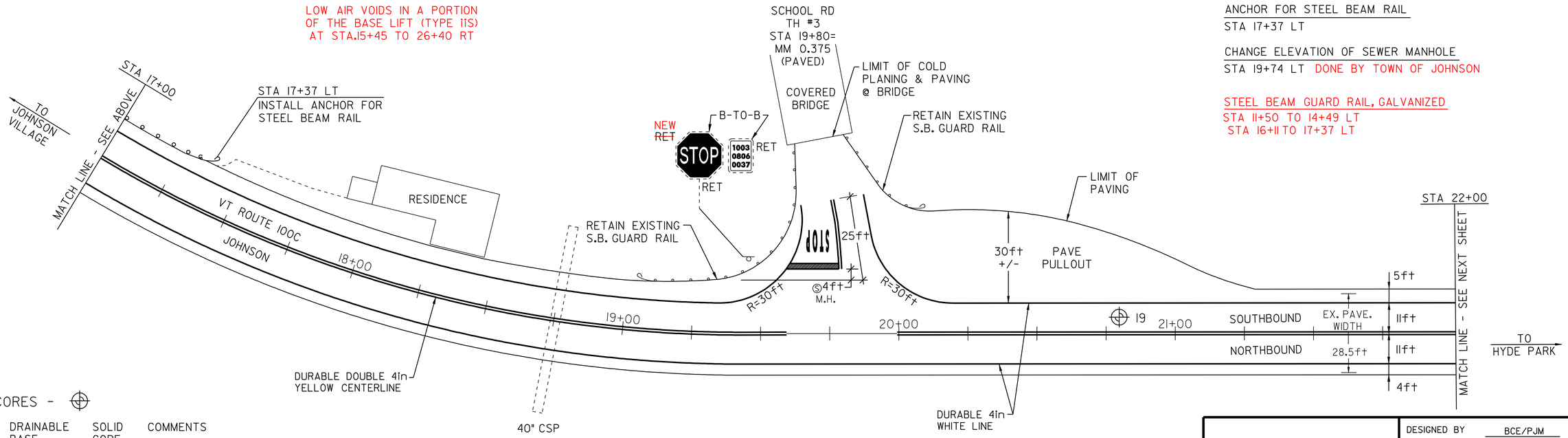


THE ASPHALT CEMENT FAILED IN THE BAS LIFT (TYPE IIS) AT STA. 11+50 ~ 14+85 LT AND STA. 11+50 ~ 15+45 RT

LOW AIR VOIDS IN A PORTION OF THE BASE LIFT (TYPE IIS) AT STA.15+45 TO 26+40 RT

REMOVE SIGNS

2



REMOVAL AND DISPOSAL OF GUARD RAIL
STA 11+50 TO 17+37 LT

STEEL BEAM GUARD RAIL W/8 FOOT POSTS, GALVANIZED
STA 11+50 TO 17+37 LT
14+49 16+11

ANCHOR FOR STEEL BEAM RAIL
STA 17+37 LT

CHANGE ELEVATION OF SEWER MANHOLE
STA 19+74 LT DONE BY TOWN OF JOHNSON

STEEL BEAM GUARD RAIL, GALVANIZED
STA 11+50 TO 14+49 LT
STA 16+11 TO 17+37 LT

PAVEMENT CORES -

#	TOTAL DEPTH (in)	DRAINABLE BASE	SOLID CORE	COMMENTS
19	7.0	NO	YES	POWER HOUSE BRIDGE

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

PAVING PROJECT LAYOUT SHEET #2

DESIGNED BY	BCE/PJM	DATE	7-07
DRAWN BY	C.E.A., INC.	DATE	7-07
DESIGN FILE NO.	p99c182.dgn		
PRF FILE	p99c182p102.i	DATE PLOTTED	08-JAN-2009
PROJ. NAME	**JOHNSON–HYDE PARK**		
PROJ. NO.	**STP 2215(1)S**		
SHEET	**11** OF **33** SHEETS		

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

STA 22+00 TO 52+25 SOLID LT&RT
STA 49+59 DOUBLE SOLID RT
(WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

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

STA 22+00 TO 52+25 SOLID LT&RT
(WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY LETTER OR SYMBOL (PAINT)
DURABLE LETTER OR SYMBOL (THERMOPLASTIC)

STA 49+59 RT "STOP"

TEMPORARY 24in STOP BAR (PAINT)
DURABLE 24in STOP BAR (THERMOPLASTIC)

STA 49+59 RT SINCLAIR RD

REMOVE SIGNS
6

BITUMINOUS CONCRETE GUTTER
~~STA 38+40 TO 40+00 LT~~

CHANGE ELEVATION OF SEWER MANHOLE
STA 49+70 RT
STA 22+50 LT
DONE BY TOWN OF JOHNSON

PAVEMENT CORES - ⊕

#	TOTAL DEPTH (in)	DRAINABLE BASE	SOLID CORE	COMMENTS
3	6.5	NO	YES	--
I8	7.75	NO	YES	CABIN COVE RD
I7	9.0	NO	YES	CABIN COVE RD

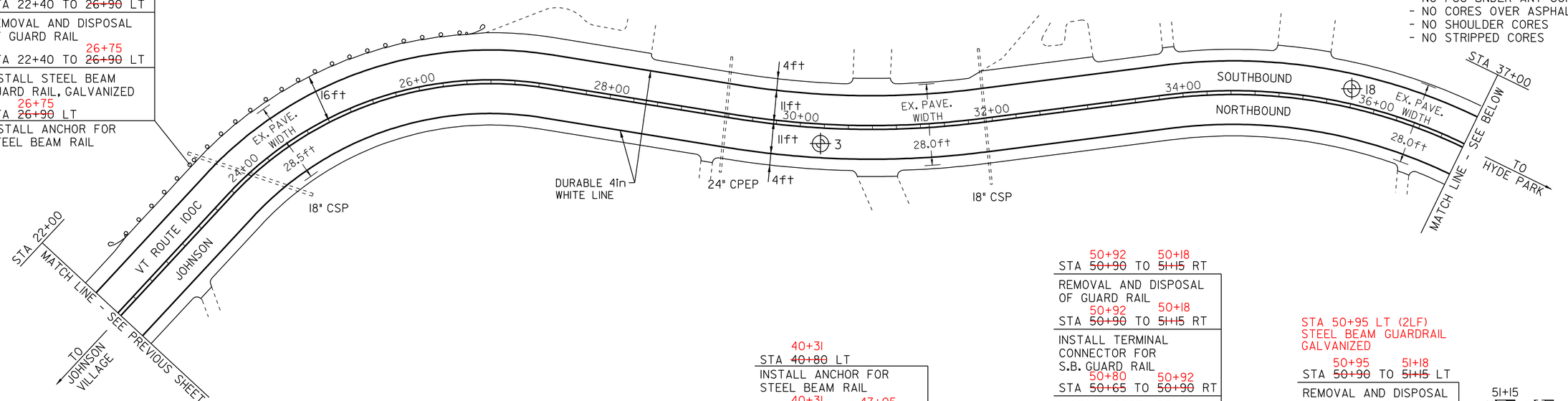
NOTE:
- NO PCC UNDER ANY CORES
- NO CORES OVER ASPHALTED
- NO SHOULDER CORES
- NO STRIPPED CORES

STA 22+40 LT
INSTALL ANCHOR FOR STEEL BEAM RAIL
26+75
STA 22+40 TO ~~26+90~~ LT

REMOVAL AND DISPOSAL OF GUARD RAIL
26+75
STA 22+40 TO ~~26+90~~ LT

INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
26+75
STA ~~26+90~~ LT

INSTALL ANCHOR FOR STEEL BEAM RAIL



40+31
STA ~~40+80~~ LT
INSTALL ANCHOR FOR STEEL BEAM RAIL
40+31 47+05
STA ~~40+80~~ TO ~~47+17~~ LT

REMOVAL AND DISPOSAL OF GUARD RAIL
40+31 47+05
STA ~~40+80~~ TO ~~47+17~~ LT

INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
47+05
STA ~~47+17~~ LT

INSTALL ANCHOR FOR STEEL BEAM RAIL

50+92 50+18
STA ~~50+90~~ TO ~~51+15~~ RT

REMOVAL AND DISPOSAL OF GUARD RAIL
50+92 50+18
STA ~~50+90~~ TO ~~51+15~~ RT

INSTALL TERMINAL CONNECTOR FOR S.B. GUARD RAIL
50+80 50+92
STA ~~50+65~~ TO ~~50+90~~ RT

INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
50+92
STA ~~50+65~~ RT
~~INSTALL BURIED END TERMINAL~~
~~SEE DETAIL, SHEET 33~~
ANCHOR FOR STEEL BEAM RAIL

STA 50+95 LT (2LF)
STEEL BEAM GUARDRAIL GALVANIZED

50+95 51+18
STA ~~50+90~~ TO ~~51+15~~ LT

REMOVAL AND DISPOSAL OF GUARD RAIL
50+95 51+18
STA ~~50+90~~ TO ~~51+15~~ LT

INSTALL TERMINAL CONNECTOR FOR S.B. GUARD RAIL
STA 50+95 LT
ANCHOR FOR STEEL BEAM RAIL

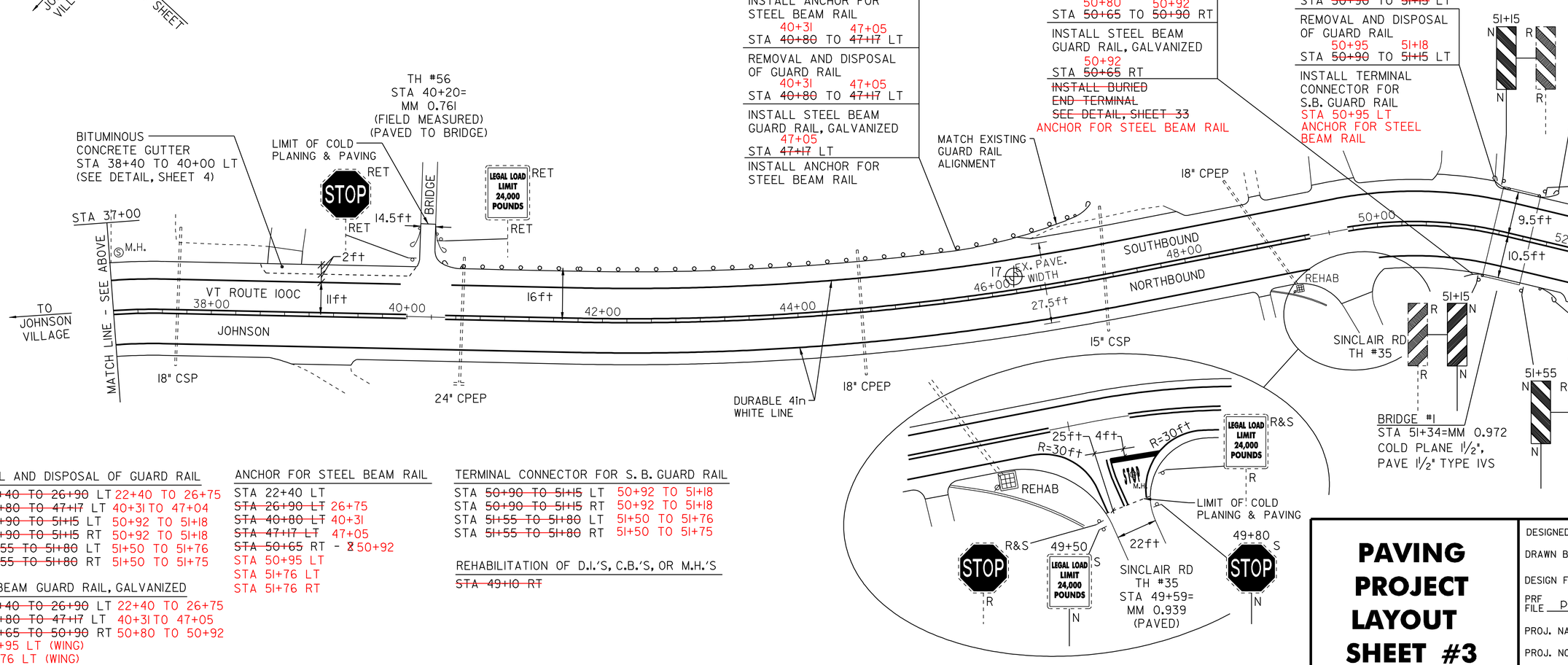
STA 51+76 LT (2LF)
STEEL BEAM GUARDRAIL GALVINIZED

STA 51+76 LT
ANCHOR FOR STEEL BEAM RAIL

51+50 51+76
STA ~~51+55~~ TO ~~51+80~~ LT

REMOVAL AND DISPOSAL OF GUARD RAIL
51+50 51+76
STA ~~51+55~~ TO ~~51+80~~ LT

INSTALL TERMINAL CONNECTOR FOR S.B. GUARD RAIL



REMOVAL AND DISPOSAL OF GUARD RAIL

STA ~~22+40 TO 26+90~~ LT 22+40 TO 26+75
STA ~~40+80 TO 47+17~~ LT 40+31 TO 47+04
STA ~~50+90 TO 51+15~~ LT 50+92 TO 51+18
STA ~~50+90 TO 51+15~~ RT 50+92 TO 51+18
STA ~~51+55 TO 51+80~~ LT 51+50 TO 51+76
STA ~~51+55 TO 51+80~~ RT 51+50 TO 51+75

STEEL BEAM GUARD RAIL, GALVANIZED

STA ~~22+40 TO 26+90~~ LT 22+40 TO 26+75
STA ~~40+80 TO 47+17~~ LT 40+31 TO 47+05
STA ~~50+65 TO 50+90~~ RT 50+80 TO 50+92
STA 50+95 LT (WING)
STA 51+76 LT (WING)
STA 51+76 RT (WING)

ANCHOR FOR STEEL BEAM RAIL

STA 22+40 LT
~~STA 26+90 LT~~ 26+75
~~STA 40+80 LT~~ 40+31
~~STA 47+17 LT~~ 47+05
~~STA 50+65~~ RT - 250+92
STA 50+95 LT
STA 51+76 LT
STA 51+76 RT

TERMINAL CONNECTOR FOR S. B. GUARD RAIL

STA ~~50+90 TO 51+15~~ LT 50+92 TO 51+18
STA ~~50+90 TO 51+15~~ RT 50+92 TO 51+18
STA ~~51+55 TO 51+80~~ LT 51+50 TO 51+76
STA ~~51+55 TO 51+80~~ RT 51+50 TO 51+75

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

~~STA 49+10 RT~~

PAVING PROJECT LAYOUT SHEET #3

DESIGNED BY BCE/PJM DATE 7-07
DRAWN BY C.E.A., INC. DATE 7-07
DESIGN FILE NO. p99c182.dgn
PRF FILE p99c182p103.i DATE PLOTTED 08-JAN-2009
PROJ. NAME **JOHNSON – HYDE PARK**
PROJ. NO. **STP 2215(1)S**
SHEET **12** OF **33** SHEETS

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

STA 52+25 TO 83+00 SOLID LT&RT
STA 76+56 DOUBLE SOLID RT
(WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

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

STA 52+25 TO 83+00 SOLID LT&RT
(WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY LETTER OR SYMBOL (PAINT)
DURABLE LETTER OR SYMBOL (THERMOPLASTIC)

STA 76+56 RT "STOP"

TEMPORARY 24in STOP BAR (PAINT)
DURABLE 24in STOP BAR (THERMOPLASTIC)

STA 76+56 RT ROCKY RD

YIELDING MARKER POST

~~STA 64+00 LT~~

REMOVE SIGNS

5

REMOVAL AND DISPOSAL OF GUARD RAIL

STA ~~52+30~~ TO ~~52+55~~ LT 52+33 TO 52+56
STA ~~52+30~~ TO ~~52+55~~ RT 52+33 TO 52+56
STA ~~53+10~~ TO ~~53+85~~ LT 53+07 TO 54+08
STA ~~53+10~~ TO ~~53+35~~ RT 53+07 TO 53+47
STA ~~59+97~~ TO ~~63+60~~ LT 60+09 TO 63+65
STA ~~69+90~~ TO ~~72+27~~ LT 69+85 TO 72+22
STA ~~69+90~~ TO ~~72+27~~ RT 69+85 TO 72+22
STA ~~80+25~~ TO 83+00 LT 79+96

MANUFACTURED TERMINAL SECTION, FLARED

STA ~~69+90~~ TO ~~70+27~~ RT 69+85 TO 72+22
STA ~~69+90~~ TO ~~70+27~~ LT 69+83.5 TO 72+21
STA ~~71+90~~ TO ~~72+27~~ LT 71+88 TO 72+25.5
STA ~~71+90~~ TO ~~72+27~~ RT 71+85 TO 72+22

MANUFACTURED TERMINAL SECTION, TANGENT

STA ~~80+25~~ TO ~~80+75~~ LT 80+00 80+53

STEEL BEAM GUARD RAIL, GALVANIZED

STA ~~53+35~~ TO 54+47 LT 53+32 TO 54+47
STA ~~53+35~~ TO ~~53+47~~ RT 53+32 TO 54+45
STA ~~82+00~~ TO ~~83+00~~ LT 81+03 TO 81+78
STA 52+33 RT (WING)
STA 52+33 LT (WING)

ANCHOR FOR STEEL BEAM RAIL

STA ~~54+47~~ LT
STA ~~53+47~~ RT 53+32
STA ~~59+97~~ LT 60+15
STA ~~63+60~~ LT 63+59
STA 52+33 LT
STA 52+33 RT

STEEL BEAM GUARD RAIL W/8 FOOT POSTS, GALVANIZED

STA ~~59+97~~ TO ~~63+60~~ LT 60+06.5 TO 63+67
STA ~~70+27~~ TO ~~71+90~~ LT 70+21 TO 71+88
STA ~~70+27~~ TO ~~71+90~~ RT 70+22 TO 71+85
~~STA 80+75 TO 82+00 LT~~
STA 81+78 TO 83+00 LT
STA 80+53 TO 81+03 LT

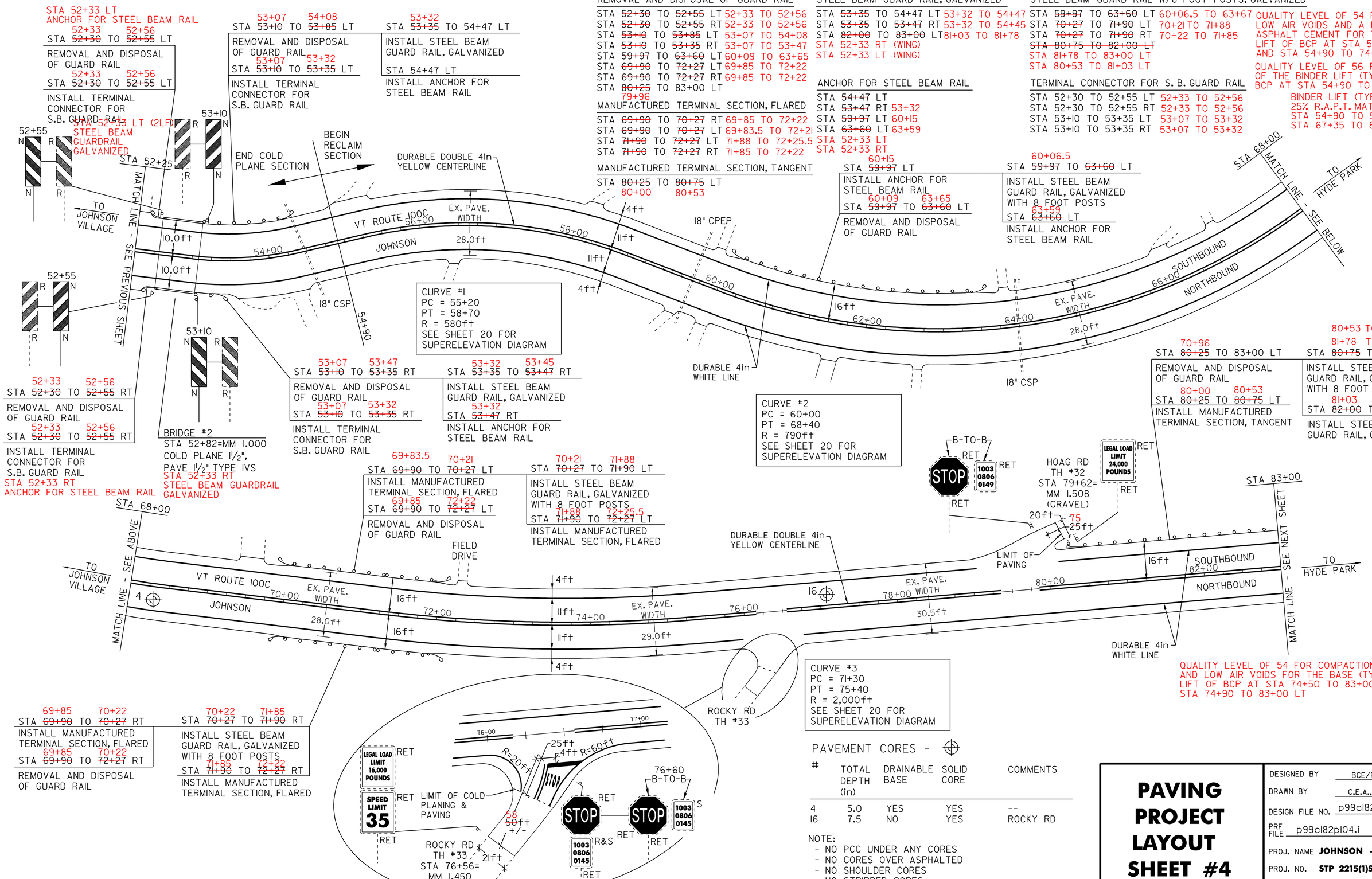
TERMINAL CONNECTOR FOR S.B. GUARD RAIL

STA 52+30 TO 52+55 LT 52+33 TO 52+56
STA 52+30 TO 52+55 RT 52+33 TO 52+56
STA 53+10 TO 53+35 LT 53+07 TO 53+32
STA 53+10 TO 53+35 RT 53+07 TO 53+32

QUALITY LEVEL OF 54 FOR COMPACTION LOW AIR VOIDS AND A FAILURE ON THE ASPHALT CEMENT FOR THE BASE (TYPEIIS) LIFT OF BCP AT STA 54+90 TO 74+90 LT AND STA 54+90 TO 74+50 RT

QUALITY LEVEL OF 56 FOR COMPACTION OF THE BINDER LIFT (TYPE IVS) OF BCP AT STA 54+90 TO 83+00 RT

BINDER LIFT (TYPE IVS) CONTAINS 25% R.A.P.T. MATERIAL
STA 54+90 TO 55+50 LT AND
STA 67+35 TO 83+00 LT



QUALITY LEVEL OF 54 FOR COMPACTION AND LOW AIR VOIDS FOR THE BASE (TYPE IIS) LIFT OF BCP AT STA 74+50 TO 83+00 RT AND STA 74+90 TO 83+00 LT

PAVEMENT CORES -

#	TOTAL DEPTH (In)	DRAINABLE BASE	SOLID CORE	COMMENTS
4	5.0	YES	YES	--
16	7.5	NO	YES	ROCKY RD

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

PAVING PROJECT LAYOUT SHEET #4

DESIGNED BY BCE/PJM DATE 7-07
DRAWN BY C.E.A., INC. DATE 7-07
DESIGN FILE NO. p99c182.dgn
PRF FILE p99c182p104.i DATE PLOTTED 08-JAN-2009
PROJ. NAME **JOHNSON - HYDE PARK**
PROJ. NO. **STP 2215(1)S**
SHEET **13** OF **33** SHEETS

TEMPORARY 4in YELLOW LINE (PAINT)
DURABLE 4in YELLOW LINE (THERMOPLASTIC)
STA 83+00 TO 115+00 SOLID LT&RT

TEMPORARY 4in WHITE LINE (PAINT)
DURABLE 4in WHITE LINE (THERMOPLASTIC)
STA 83+00 TO 115+00 SOLID LT&RT

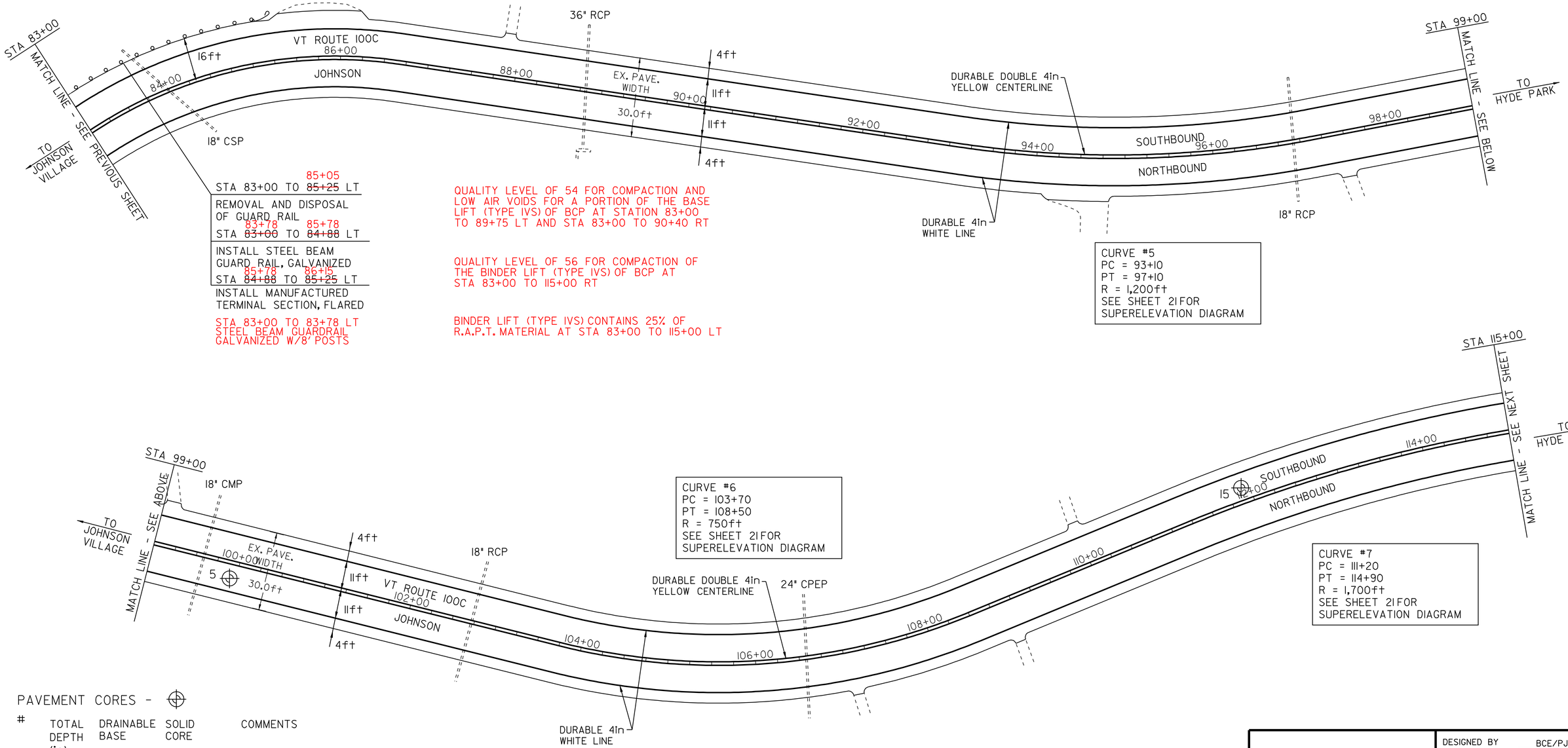
REMOVAL AND DISPOSAL OF GUARD RAIL
STA 83+00 TO ~~85+25~~ 85+05 LT

STEEL BEAM GUARD RAIL, GALVANIZED
STA ~~83+00~~ 83+78 TO ~~84+88~~ 85+78 LT

MANUFACTURED TERMINAL SECTION, FLARED
STA ~~84+88~~ 85+78 TO ~~85+25~~ 86+15 LT

STEEL BEAM GUARDRAIL, GALVANIZED W/8' POSTS
STA 83+00 TO 83+78 LT

CURVE #4
PC = 83+00
PT = 86+70
R = 500ft
SEE SHEET 20 FOR
SUPERELEVATION DIAGRAM



~~85+05~~
STA 83+00 TO ~~85+25~~ LT

REMOVAL AND DISPOSAL OF GUARD RAIL
~~83+78~~ ~~85+78~~
STA ~~83+00~~ TO ~~84+88~~ LT

INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
~~85+78~~ ~~86+15~~
STA ~~84+88~~ TO ~~85+25~~ LT

INSTALL MANUFACTURED TERMINAL SECTION, FLARED

STA 83+00 TO 83+78 LT
STEEL BEAM GUARDRAIL
GALVANIZED W/8' POSTS

QUALITY LEVEL OF 54 FOR COMPACTION AND LOW AIR VOIDS FOR A PORTION OF THE BASE LIFT (TYPE IVS) OF BCP AT STATION 83+00 TO 89+75 LT AND STA 83+00 TO 90+40 RT

QUALITY LEVEL OF 56 FOR COMPACTION OF THE BINDER LIFT (TYPE IVS) OF BCP AT STA 83+00 TO 115+00 RT

BINDER LIFT (TYPE IVS) CONTAINS 25% OF R.A.P.T. MATERIAL AT STA 83+00 TO 115+00 LT

CURVE #5
PC = 93+10
PT = 97+10
R = 1,200ft
SEE SHEET 21 FOR
SUPERELEVATION DIAGRAM

CURVE #6
PC = 103+70
PT = 108+50
R = 750ft
SEE SHEET 21 FOR
SUPERELEVATION DIAGRAM

CURVE #7
PC = 111+20
PT = 114+90
R = 1,700ft
SEE SHEET 21 FOR
SUPERELEVATION DIAGRAM

PAVEMENT CORES - ⊕

#	TOTAL DEPTH (in)	DRAINABLE BASE	SOLID CORE	COMMENTS
5	5.0	NO	YES	STEARNS RD
15	7.75	NO	YES	--

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

PAVING PROJECT LAYOUT SHEET #5

DESIGNED BY BCE/PJM DATE 7-07
DRAWN BY C.E.A., INC. DATE 7-07
DESIGN FILE NO. p99c182.dgn
PRF FILE p99c182p105.i DATE PLOTTED 08-JAN-2009
PROJ. NAME **JOHNSON – HYDE PARK**
PROJ. NO. **STP 2215(1)S**
SHEET **14** OF **33** SHEETS

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

STA 115+00 TO 145+00 SOLID LT&RT
STA 141+21 DOUBLE SOLID RT
(WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

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

STA 115+00 TO 145+00 SOLID LT&RT
(WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY LETTER OR SYMBOL (PAINT)
DURABLE LETTER OR SYMBOL (THERMOPLASTIC)

STA 141+21 RT "STOP"

TEMPORARY 24in STOP BAR (PAINT)
DURABLE 24in STOP BAR (THERMOPLASTIC)

STA 141+21 RT WHITCOMB ISLAND RD

REMOVE SIGNS
1

QUALITY LEVEL OF 56 FOR THE COMPACTION OF THE BINDER LIFT (TYPE IVS) OF BCP AT STA 115+00 TO 131+50 RT

THE BINDER LIFT (TYPE IVS) OF BCP CONTAINS 25% R.A.P.T. MATERIAL AT STA 115+00 TO 145+00 LT AND AT STA 131+50 TO 145+00 RT

STA 115+00 MATCH LINE - SEE PREVIOUS SHEET

TO JOHNSON VILLAGE

EX. PAVE. WIDTH 116+00

30.0ft

4ft

11ft 118+00

VT ROUTE 100C

JOHNSON

11ft

4ft

18" RCP

120+00

DURABLE DOUBLE 4in YELLOW CENTERLINE

FIELD DRIVE

STEARNS RD
TH #68
STA 123+26=
MM 2.334
(CLASS III)

122+00

124+00

16ft

16ft

DURABLE 4in WHITE LINE

MINOR FAILURE ON #200 FOR ITEM 900.680

122+52 125+38
STA ~~122+56~~ TO ~~125+44~~ RT
REMOVAL AND DISPOSAL OF GUARD RAIL

122+36 122+75
STA ~~122+56~~ TO ~~122+93~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

122+75 125+00
STA ~~122+93~~ TO ~~125+07~~ RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED WITH 8 FOOT POSTS

125+00 125+38
STA ~~125+07~~ TO ~~125+44~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

123+57 126+43
STA ~~123+42~~ TO ~~126+42~~ LT
REMOVAL AND DISPOSAL OF GUARD RAIL

123+50 123+87
STA ~~123+42~~ TO ~~123+79~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

123+87 126+12
STA ~~123+79~~ TO ~~126+05~~ LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

126+12 126+49
STA ~~126+05~~ TO ~~126+42~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

CURVES #8 & #9
PC = 119+70
PCC = 122+10
R = 720ft
PCC = 122+10
PT = 127+50
R = 560ft
SEE SHEET 22 FOR SUPERELEVATION DIAGRAM

126+00

5ft
11ft
11ft
5ft

128+00

SOUTHBOUND
NORTHBOUND

STA 129+50 MATCH LINE - SEE BELOW

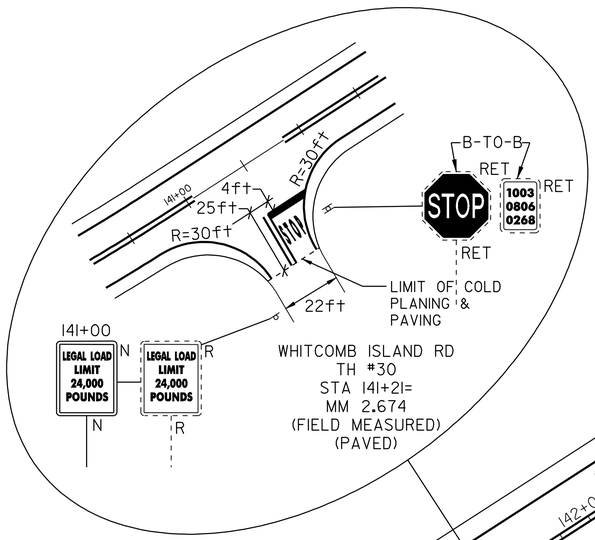
TO HYDE PARK

REMOVAL AND DISPOSAL OF GUARD RAIL
STA ~~122+56~~ TO ~~125+44~~ RT 122+52 TO 125+38
STA ~~123+42~~ TO ~~126+42~~ LT 123+57 TO 126+43

STEEL BEAM GUARD RAIL, GALVANIZED
STA ~~123+79~~ TO ~~126+05~~ LT 123+87 TO 126+12

STEEL BEAM GUARD RAIL W/8 FOOT POSTS, GALVANIZED
STA ~~122+93~~ TO ~~125+07~~ RT 122+75 TO 125+00

MANUFACTURED TERMINAL SECTION, FLARED
STA ~~122+56~~ TO ~~122+93~~ RT 122+36 TO 122+75
STA ~~123+42~~ TO ~~123+79~~ LT 123+50 TO 123+87
STA ~~125+07~~ TO ~~125+44~~ RT 125+00 TO 125+38
STA ~~126+05~~ TO ~~126+42~~ LT 126+12 TO 126+44



CURVE #10
PC = 129+20
PT = 140+90
R = 790ft
SEE SHEET 22 FOR SUPERELEVATION DIAGRAM

TO JOHNSON VILLAGE

MATCH LINE - SEE ABOVE

STA 129+50

130+00

VT ROUTE 100C

JOHNSON

132+00

EX. PAVE. WIDTH 134+00

30.0ft

136+00

DURABLE DOUBLE 4in YELLOW CENTERLINE

138+00

EX. PAVE. WIDTH 140+00

30.5ft

24" CSP

DURABLE 4in WHITE LINE

WHITCOMB ISLAND RD
TH #30

STA 145+00 MATCH LINE - SEE NEXT SHEET

TO HYDE PARK

5ft
11ft
11ft
5ft

144+00

SOUTHBOUND
NORTHBOUND

6

EX. PAVE. WIDTH 142+00

26.0ft

PAVEMENT CORES -

#	TOTAL DEPTH (in)	DRAINABLE BASE	SOLID CORE	COMMENTS
6	5.0	NO	YES	CHIP SEAL

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

PAVING PROJECT LAYOUT SHEET #6

DESIGNED BY BCE/PJM DATE 7-07
DRAWN BY C.E.A., INC. DATE 7-07
DESIGN FILE NO. p99c182.dgn
PRF FILE p99c182p106.i DATE PLOTTED 08-JAN-2009
PROJ. NAME **JOHNSON - HYDE PARK**
PROJ. NO. **STP 2215(1)S**
SHEET **15** OF **33** SHEETS

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

STA 145+00 TO ~~152+59~~ 151+90	SOLID LT&RT
STA 151+51	DOUBLE SOLID LT&RT
STA ~~152+59~~ TO ~~156+56~~	SOLID LT & DASHED RT
STA ~~156+56~~ TO ~~163+68~~	DASHED
STA ~~163+68~~ TO ~~170+02~~	DASHED LT & SOLID RT
STA ~~170+02~~ TO ~~174+00~~	SOLID LT&RT

(WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)
151+90 TO 155+67
155+67 TO 162+64
162+64 TO 169+22
169+22 TO 174+00

TEMPORARY LETTER OR SYMBOL (PAINT)
DURABLE LETTER OR SYMBOL (THERMOPLASTIC)

STA 151+51 LT	"STOP"
STA 151+51 RT	"STOP"

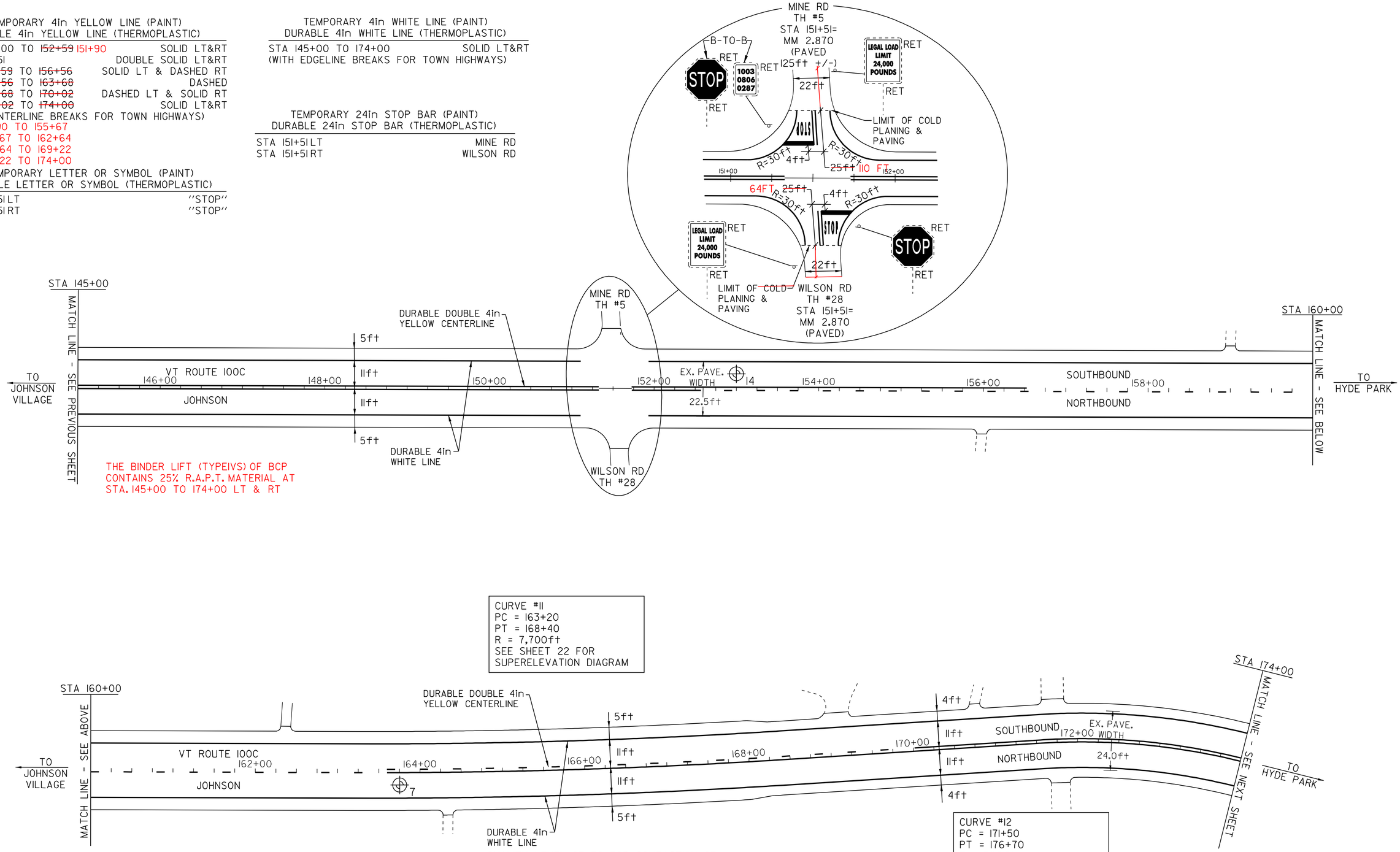
TEMPORARY 4in WHITE LINE (PAINT)
DURABLE 4in WHITE LINE (THERMOPLASTIC)

STA 145+00 TO 174+00	SOLID LT&RT

(WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY 24in STOP BAR (PAINT)
DURABLE 24in STOP BAR (THERMOPLASTIC)

STA 151+51 LT	MINE RD
STA 151+51 RT	WILSON RD



PAVEMENT CORES - ⊕

#	TOTAL DEPTH (in)	DRAINABLE BASE	SOLID CORE	COMMENTS
14	5.0	NO	NO	--
7	5.25	NO	YES	--

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

PAVING PROJECT LAYOUT SHEET #7

DESIGNED BY BCE/PJM DATE 7-07
DRAWN BY C.E.A., INC. DATE 7-07
DESIGN FILE NO. p99c182.dgn
PRF FILE p99c182p107.1 DATE PLOTTED 08-JAN-2009
PROJ. NAME **JOHNSON - HYDE PARK**
PROJ. NO. **STP 2215(1)S**
SHEET **16** OF **33** SHEETS

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

STA 174+00 TO 206+00 SOLID LT&RT
STA 175+03 DOUBLE SOLID LT
(WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)

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

STA 174+00 TO 206+00 SOLID LT&RT
(WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)

TEMPORARY LETTER OR SYMBOL (PAINT)
DURABLE LETTER OR SYMBOL (THERMOPLASTIC)

STA 175+03 LT "STOP"

TEMPORARY 24in STOP BAR (PAINT)
DURABLE 24in STOP BAR (THERMOPLASTIC)

STA 175+03 LT OBER HILL RD

RELOCATE MAILBOX, SINGLE SUPPORT
STA 184+20 RT

REMOVE SIGNS
4

BRIDGE #3
STA 174+93=MM 3.313
RECLAIM & PAVE

OBER HILL RD
TH #26

STA 174+00
MATCH LINE - SEE PREVIOUS SHEET

TO JOHNSON VILLAGE

VT ROUTE 100C
JOHNSON
13

EX. PAVE. WIDTH 23.5ft

4ft
11ft
11ft
4ft

16ft
16ft
16ft

DURABLE 4in WHITE LINE

DURABLE DOUBLE 4in YELLOW CENTERLINE

STA 184+20 RT
RELOCATE MAILBOX
SINGLE SUPPORT

DRIVE ABANDONED

STA 189+50
MATCH LINE - SEE BELOW

TO HYDE PARK

SOUTHBOUND
NORTHBOUND

18" RCP

18" CSP

OBER HILL RD
TH #26
STA 175+03=
MM 3.315
(PAVED)

20ft (PAVED)

SPEED LIMIT 35 R&S

LEGAL LOAD LIMIT 24,000 POUNDS

SPEED LIMIT 35

STOP
1003 0806 0331
B-TO-B

R=30ft
R=75ft
R=20ft

4ft

LIMIT OF COLD PLANING & PAVING

16ft

THE BINDER LIFT (TYPE IVS) OF THE BCP CONTAINS 25% R.A.P.T. MATERIAL AT STA 174+00 TO 206+00 LT & RT

QUALITY LEVEL OF 50 FOR COMPACTION FOR THE BINDER (TYPE IVS) LIFT OF BCP AT STA 174+00 TO 206+00 LT
QUALITY LEVEL OF 37 FOR COMPACTION FOR THE BINDER LIFT (TYPE IVS) OF BCP AT STA 199+40 TO 206+00 RT

CURVE #13
PC = 181+40
PT = 184+70
R = 2,200ft
SEE SHEET 23 FOR SUPERELEVATION DIAGRAM

CURVE #14
PC = 190+30
PT = 193+00
R = 3,300ft
SEE SHEET 23 FOR SUPERELEVATION DIAGRAM

CURVE #15
PC = 196+70
PT = 201+00
R = 760ft
SEE SHEET 24 FOR SUPERELEVATION DIAGRAM

174+37 175+16
STA ~~174+30~~ TO ~~175+30~~ LT

REMOVAL AND DISPOSAL OF GUARD RAIL
174+00 174+38
STA ~~174+18~~ TO ~~174+55~~ LT

INSTALL MANUFACTURED TERMINAL SECTION, FLARED
174+38 175+37
STA ~~174+55~~ TO ~~174+93~~ LT

INSTALL STEEL BEAM GUARD RAIL, GALVANIZED WITH 8 FOOT POSTS

~~STA 174+93 TO 175+30 LT~~
~~INSTALL MANUFACTURED TERMINAL SECTION, FLARED~~
STA 175+35 LT
ANCHOR FOR STEEL BEAM GUARD RAIL

174+68 175+35
STA ~~174+62~~ TO ~~175+37~~ RT

REMOVAL AND DISPOSAL OF GUARD RAIL
174+88
STA 174+50 TO ~~174+87~~ RT

INSTALL MANUFACTURED TERMINAL SECTION, FLARED

174+88 175+38
STA ~~174+87~~ TO ~~175+00~~ RT

INSTALL STEEL BEAM GUARD RAIL, GALVANIZED WITH 8 FOOT POSTS
175+38 175+75
STA ~~175+00~~ TO ~~175+37~~ RT

INSTALL MANUFACTURED TERMINAL SECTION, FLARED

175+85
STA 175+35 LT
ANCHOR FOR STEEL BEAM GUARD RAIL

183+06 TO 186+04
STA ~~183+00~~ TO ~~186+00~~ RT

REMOVAL AND DISPOSAL OF GUARD RAIL
182+64 TO 183+02
STA ~~182+62~~ TO ~~183+00~~ RT

INSTALL MANUFACTURED TERMINAL SECTION, FLARED

STA 187+27 TO 188+14 RT
183+02 TO 186+02
STA ~~183+00~~ TO ~~185+63~~ RT

INSTALL STEEL BEAM GUARD RAIL, GALVANIZED WITH 8 FOOT POSTS

~~STA 185+63 TO 186+00 RT~~
~~INSTALL MANUFACTURED TERMINAL SECTION, FLARED~~

184+45 188+20
STA ~~184+40~~ TO ~~188+15~~ LT

REMOVAL AND DISPOSAL OF GUARD RAIL
184+41 184+78
STA ~~184+40~~ TO ~~184+77~~ LT

INSTALL MANUFACTURED TERMINAL SECTION, FLARED
185+53
STA ~~184+77~~ TO 189+28 LT

INSTALL STEEL BEAM GUARD RAIL, GALVANIZED WITH 8 FOOT POSTS

STA 189+28 TO 189+65 LT

INSTALL MANUFACTURED TERMINAL SECTION, FLARED
STA 184+78 TO 185+53 LT
STEEL BEAM GUARD RAIL, GALVANIZED

186+50 188+42
STA ~~186+65~~ TO ~~188+40~~ RT

REMOVAL AND DISPOSAL OF GUARD RAIL

~~STA 186+80 TO 187+17 RT~~
~~INSTALL MANUFACTURED TERMINAL SECTION, FLARED~~
186+02 187+27
STA ~~187+17~~ TO ~~188+18~~ RT

INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
188+14 188+53
STA ~~188+18~~ TO ~~188+55~~ RT

INSTALL MANUFACTURED TERMINAL SECTION, FLARED

198+76 201+58
STA ~~198+70~~ TO ~~201+45~~ LT

REMOVAL AND DISPOSAL OF GUARD RAIL
198+78 199+15
STA ~~198+70~~ TO ~~199+07~~ LT

INSTALL MANUFACTURED TERMINAL SECTION, FLARED

STA ~~199+07~~ TO ~~201+45~~ LT 199+15 TO 201+63

INSTALL STEEL BEAM GUARD RAIL, GALVANIZED WITH 8 FOOT POSTS
201+63 202+00
STA ~~201+45~~ TO ~~201+82~~ LT

INSTALL MANUFACTURED TERMINAL SECTION, FLARED

PAVEMENT CORES -

#	TOTAL DEPTH (in)	DRAINABLE BASE	SOLID CORE	COMMENTS
13	6.75	NO	NO	--
8	6.0	NO	NO	8' RT OF C.L.

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

BRIDGE #4
STA 199+91=MM 3.786
RECLAIM & PAVE

DURABLE DOUBLE 4in YELLOW CENTERLINE

DURABLE 4in WHITE LINE

STA 189+50
MATCH LINE - SEE ABOVE

TO JOHNSON VILLAGE

VT ROUTE 100C
JOHNSON
8

EX. PAVE. WIDTH 23.5ft

4ft
11ft
11ft
4ft

15.5 FT
15ft
15.5 FT

18" RCP

STA 206+00
MATCH LINE - SEE NEXT SHEET

TO HYDE PARK

EX. PAVE. WIDTH 23.0ft

SOUTHBOUND
NORTHBOUND

198+38 201+53
STA ~~198+35~~ TO ~~201+47~~ RT

REMOVAL AND DISPOSAL OF GUARD RAIL
198+31 198+68
STA ~~198+35~~ TO ~~198+72~~ RT

INSTALL MANUFACTURED TERMINAL SECTION, FLARED
198+68 200+07
STA ~~198+72~~ TO ~~201+85~~ RT & STA 201+32 TO 201+82 RT

INSTALL STEEL BEAM GUARD RAIL, GALVANIZED WITH 8 FOOT POSTS
201+82 202+20
STA ~~201+85~~ TO ~~202+22~~ RT

INSTALL MANUFACTURED TERMINAL SECTION, FLARED
STA 200+07 TO 201+32 RT
STEEL BEAM GUARD RAIL, GALVANIZED

MANUFACTURED TERMINAL SECTION, FLARED

STA ~~174+18 TO 174+55~~ LT	174+00 TO 174+38
STA ~~174+50 TO 174+87~~ RT	174+50 TO 174+88
STA ~~174+93 TO 175+30~~ LT	
STA ~~175+00 TO 175+37~~ RT	175+38 TO 175+75
STA ~~182+62 TO 183+00~~ RT	182+64 TO 183+02
STA ~~184+40 TO 184+77~~ LT	188+41 TO 184+78
STA ~~185+63 TO 186+00~~ RT	
STA ~~186+80 TO 187+17~~ RT	
STA ~~188+18 TO 188+55~~ RT	188+14 TO 188+53
STA 189+28 TO 189+65 LT	
STA ~~198+35 TO 198+72~~ RT	198+31 TO 198+68
STA ~~198+70 TO 199+07~~ LT	198+78 TO 199+15
STA ~~201+45 TO 201+82~~ LT	201+63 TO 202+00
STA ~~201+85 TO 202+22~~ RT	201+82 TO 202+20

REMOVAL AND DISPOSAL OF GUARD RAIL

STA ~~174+30~~ TO ~~175+30~~ LT	174+37 TO 175+16
STA ~~174+62~~ TO ~~175+37~~ RT	174+68 TO 175+35
STA ~~183+00~~ TO ~~186+00~~ RT	183+06 TO 186+04
STA ~~184+40~~ TO ~~188+15~~ LT	184+45 TO 188+20
STA ~~186+65~~ TO ~~188+40~~ RT	186+50 TO 188+42
STA ~~198+35~~ TO ~~201+47~~ RT	198+38 TO 201+53
STA ~~198+70~~ TO ~~201+45~~ LT	198+76 TO 201+58

ANCHOR FOR STEEL BEAM GUARD RAIL
STA 175+85 LT

STEEL BEAM GUARD RAIL W/8 FOOT POSTS, GALVANIZED

STA ~~174+55~~ TO ~~174+93~~ LT	174+88 TO 175+87
STA ~~174+87~~ TO ~~175+00~~ RT	174+88 TO 175+38
STA ~~183+00~~ TO ~~185+63~~ RT	183+02 TO 186+02
STA ~~184+77~~ TO 189+28 LT	185+53 TO 189+28
STA ~~198+72~~ TO ~~201+85~~ RT	198+68 TO 200+07
STA ~~199+07~~ TO ~~201+45~~ LT	199+15 TO 201+63

STA 187+27 TO 188+14 RT STA 201+32 TO 201+82 RT

STEEL BEAM GUARD RAIL, GALVANIZED

STA ~~187+17~~ TO ~~188+18~~ RT	186+02 TO 187+27

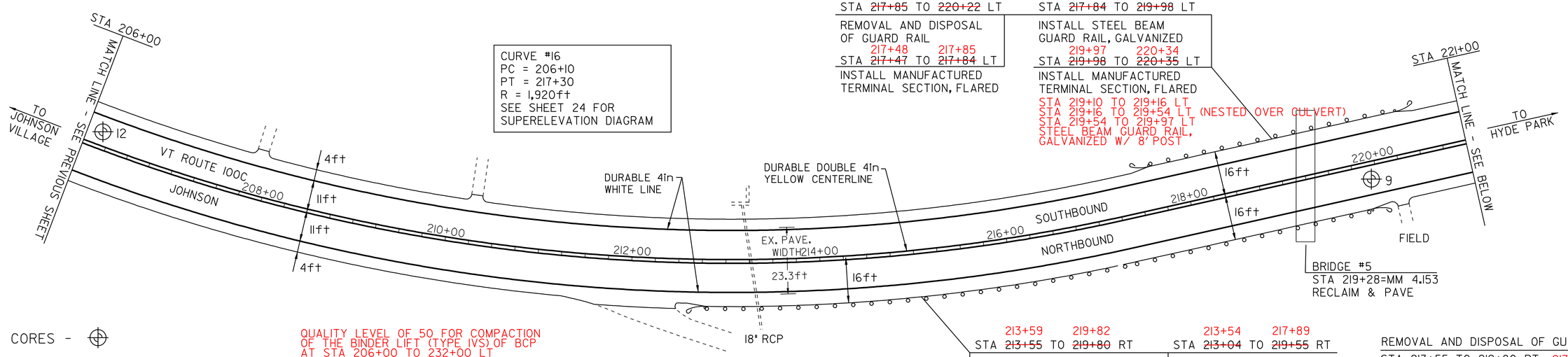
STA 184+78 TO 185+53 LT
STA 200+07 TO 201+32 RT

PAVING PROJECT LAYOUT SHEET #8

DESIGNED BY	BCE/PJM	DATE	7-07
DRAWN BY	C.E.A., INC.	DATE	7-07
DESIGN FILE NO.	p99c182.dgn		
PRF FILE	p99c182pl08.i	DATE PLOTTED	08-JAN-2009
PROJ. NAME	**JOHNSON - HYDE PARK**		
PROJ. NO.	**STP 2215(1)S**		
SHEET	**17** OF **33** SHEETS		

TEMPORARY 4in YELLOW LINE (PAINT)
DURABLE 4in YELLOW LINE (THERMOPLASTIC)
STA 206+00 TO 232+00 SOLID LT&RT

TEMPORARY 4in WHITE LINE (PAINT)
DURABLE 4in WHITE LINE (THERMOPLASTIC)
STA 206+00 TO 232+00 SOLID LT&RT



CURVE #16
PC = 206+10
PT = 217+30
R = 1,920ft
SEE SHEET 24 FOR SUPERELEVATION DIAGRAM

217+83 220+20
STA ~~217+85~~ TO ~~220+22~~ LT
REMOVAL AND DISPOSAL OF GUARD RAIL
217+48 217+85
STA ~~217+47~~ TO ~~217+84~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

217+85 219+10
STA ~~217+84~~ TO ~~219+98~~ LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
219+97 220+34
STA ~~219+98~~ TO ~~220+35~~ LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

STA 219+10 TO 219+16 LT
STA 219+16 TO 219+54 LT (NESTED OVER CULVERT)
STA 219+54 TO 219+97 LT
STEEL BEAM GUARD RAIL, GALVANIZED W/ 8' POST

PAVEMENT CORES -

#	TOTAL DEPTH (in)	DRAINABLE BASE	SOLID CORE	COMMENTS
12	6.0	NO	NO	LOT OF PATCHING
9	5.0	NO	YES	CULVERT
11	5.0	NO	NO	ROSE WOOD LN.

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

QUALITY LEVEL OF 50 FOR COMPACTION OF THE BINDER LIFT (TYPE IVS) OF BCP AT STA 206+00 TO 232+00 LT

QUALITY LEVEL OF 37 FOR COMPACTION OF THE BINDER LIFT (TYPE IVS) OF BCP AT STA 206+00 TO 232+00 RT

THE BINDER LIFT (TYPE IVS) OF THE BCP CONTAINS 25% R.A.P.T. MATERIAL AT STA 206+00 TO 232+00 RT & LT

THE WEARING LIFT (TYPE IVS) OF BCP CONTAINS 25% R.A.P.T. MATERIAL AT STA 220+18 TO 232+00 LT

213+59 219+82
STA ~~213+55~~ TO ~~219+80~~ RT
REMOVAL AND DISPOSAL OF GUARD RAIL
STA 212+67 TO 213+04 RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

213+54 217+89
STA ~~213+04~~ TO ~~219+55~~ RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
219+54 219+91
STA ~~219+55~~ TO ~~219+92~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

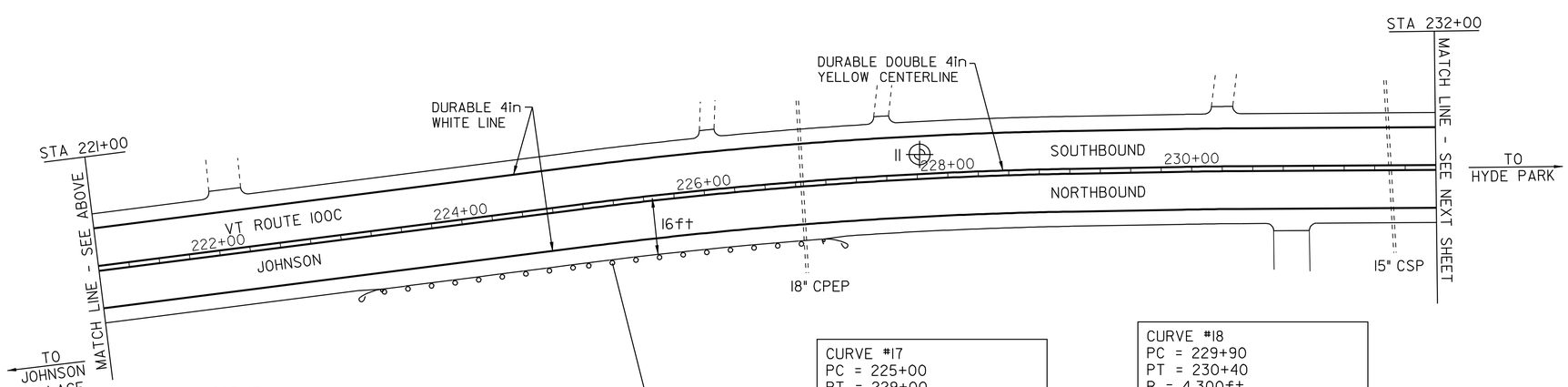
STA 213+04 TO 213+54 RT
STA 217+89 TO 219+04 RT
STA 219+04 TO 219+41 RT (NESTED OVER CULVERT)
STA 219+41 TO 219+54 RT
STEEL BEAM GUARD RAIL GALVANIZED W/ 8' POSTS

REMOVAL AND DISPOSAL OF GUARD RAIL
STA ~~213+55~~ TO ~~219+80~~ RT 213+59 TO 219+82
STA ~~217+85~~ TO ~~220+22~~ LT 217+83 TO 220+20
STA ~~223+10~~ TO ~~226+47~~ RT 223+15 TO 226+45

STEEL BEAM GUARD RAIL, GALVANIZED
STA ~~213+04~~ TO ~~219+55~~ RT 213+54 TO 217+89
STA ~~217+84~~ TO ~~219+98~~ LT 217+85 TO 219+10
STA ~~223+47~~ TO ~~226+85~~ RT 223+52 TO 225+27

MANUFACTURED TERMINAL SECTION, FLARED
STA 212+67 TO 213+04 RT
STA ~~217+47~~ TO ~~217+84~~ LT 217+48 TO 217+85
STA ~~219+55~~ TO ~~219+92~~ RT 219+54 TO 219+91
STA ~~219+98~~ TO ~~220+35~~ LT 219+97 TO 220+34
STA ~~223+10~~ TO ~~223+47~~ RT 223+15 TO 223+52
STA ~~226+85~~ TO ~~227+22~~ RT 226+90 TO 227+27

STEEL BEAM GUARD RAIL, GALVANIZED W/ 8' POSTS
STA 219+10 TO 219+16 LT
STA 219+16 TO 219+54 LT (NESTED OVER CULVERT)
STA 219+54 TO 219+97 LT
STA 213+04 TO 213+54 RT
STA 217+89 TO 219+04 RT
STA 219+04 TO 219+41 RT (NESTED VOER CULVERT)
STA 219+41 TO 219+54 RT
STA 225+27 TO 226+90 RT



CURVE #17
PC = 225+00
PT = 229+00
R = 3,700ft
SEE SHEET 25 FOR SUPERELEVATION DIAGRAM

CURVE #18
PC = 229+90
PT = 230+40
R = 4,300ft
SEE SHEET 25 FOR SUPERELEVATION DIAGRAM

223+15 226+45
STA ~~223+10~~ TO ~~226+47~~ RT
REMOVAL AND DISPOSAL OF GUARD RAIL
223+15 223+52
STA ~~223+10~~ TO ~~223+47~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

223+52 225+27
STA ~~223+47~~ TO ~~226+85~~ RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED
226+90 227+27
STA ~~226+85~~ TO ~~227+22~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

STA 225+27 TO 226+90 RT
STEEL BEAM GAURD RAIL
GALVANIZED W/ 8 FOOT POSTS

PAVING PROJECT LAYOUT SHEET #9

DESIGNED BY BCE/PJM DATE 7-07
DRAWN BY C.E.A., INC. DATE 7-07
DESIGN FILE NO. p99c182.dgn
PRF FILE p99c182p109.i DATE PLOTTED 08-JAN-2009
PROJ. NAME **JOHNSON - HYDE PARK**
PROJ. NO. **STP 2215(1)S**
SHEET **18** OF **33** SHEETS

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

TOWN OF JOHNSON	
STA 232+00 TO 238+02	SOLID LT&RT
TOWN OF HYDE PARK	
0+00 TO 4+05	SOLID LT&RT
(WITH CENTERLINE BREAKS FOR TOWN HIGHWAYS)	

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

TOWN OF JOHNSON	
STA 232+00 TO 238+02	SOLID LT&RT
TOWN OF HYDE PARK	
0+00 TO 4+05	SOLID LT&RT
(WITH EDGELINE BREAKS FOR TOWN HIGHWAYS)	

TEMPORARY LETTER OR SYMBOL (PAINT)
DURABLE LETTER OR SYMBOL (THERMOPLASTIC)

TOWN OF JOHNSON	
STA 233+70 RT	"STOP AHEAD"
TOWN OF HYDE PARK	
STA ~~3+90~~ RT	2 - "STOP"
4+00	

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

TOWN OF JOHNSON
STA 237+00 LT
STA 238+00 LT

TOWN OF HYDE PARK
STA ~~3+43~~ RT
3+90

TEMPORARY 24in STOP BAR (PAINT)
DURABLE 24in STOP BAR (THERMOPLASTIC)

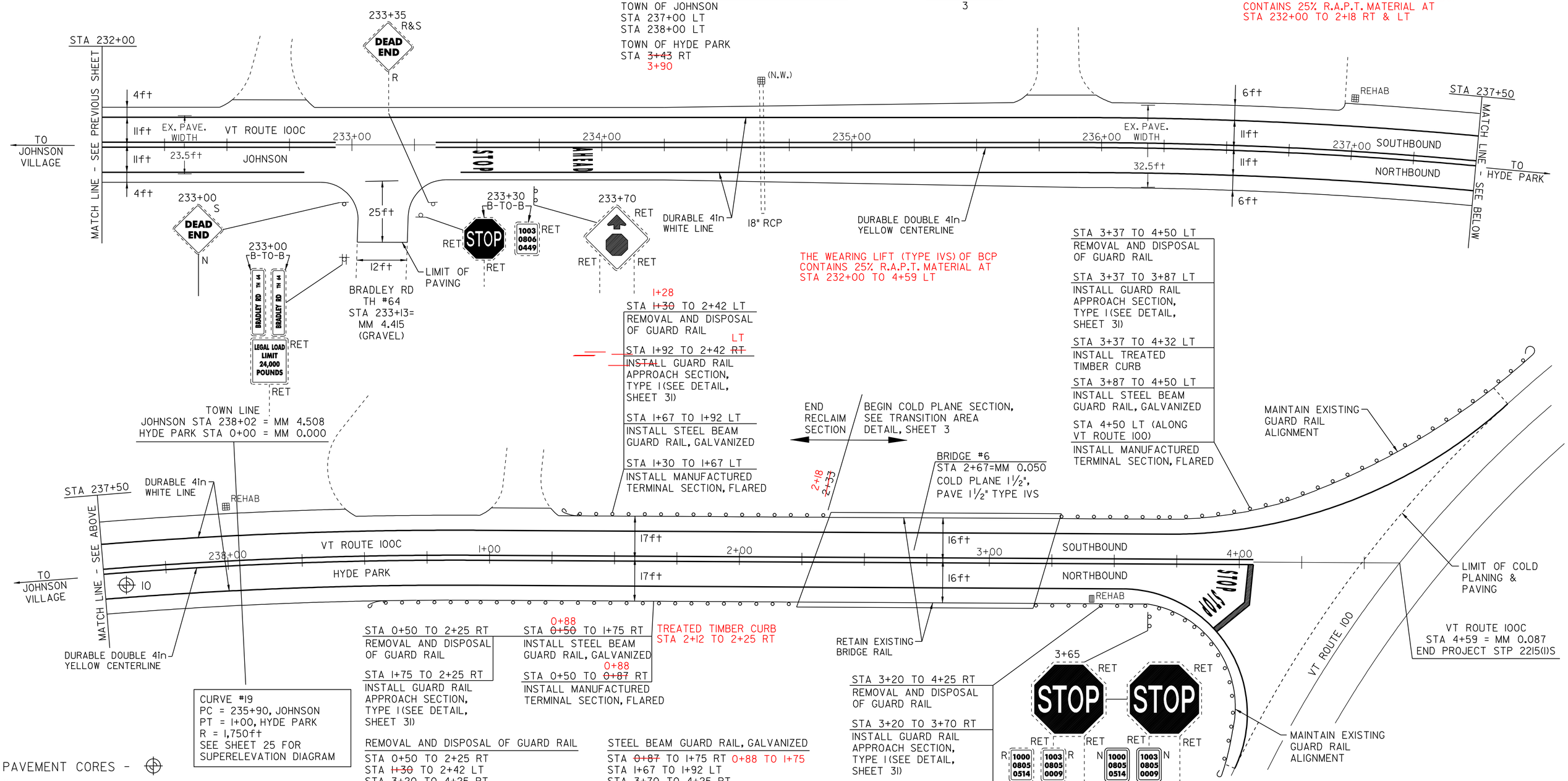
TOWN OF HYDE PARK	
STA ~~4+05~~ RT	VT ROUTE 100C/100
4+25	INTERSECTION

REMOVE SIGNS
3

QUALITY LEVEL OF 50 FOR CAMPACTION OF THE BINDER LIFT (TYPE IVS) OF BCP AT STA 232+00 TO 2+18 LT

QUALITY LEVEL OF 37 FOR COMPACTION OF THE BINDER LIFT (TYPE IVS) OF BCP AT STA 232+00 TO 2+18 RT

THE BINDER LIFT (TYPE IVS) OF THE BCP CONTAINS 25% R.A.P.T. MATERIAL AT STA 232+00 TO 2+18 RT & LT



THE WEARING LIFT (TYPE IVS) OF BCP CONTAINS 25% R.A.P.T. MATERIAL AT STA 232+00 TO 4+59 LT

TOWN LINE
JOHNSON STA 238+02 = MM 4.508
HYDE PARK STA 0+00 = MM 0.000

CURVE #19
PC = 235+90, JOHNSON
PT = 1+00, HYDE PARK
R = 1,750ft
SEE SHEET 25 FOR SUPERELEVATION DIAGRAM

STA 1+28
STA ~~1+30~~ TO 2+42 LT
REMOVAL AND DISPOSAL OF GUARD RAIL LT

STA 1+92 TO 2+42 ~~RT~~
~~INSTAL~~L GUARD RAIL APPROACH SECTION, TYPE I (SEE DETAIL, SHEET 31)

STA 1+67 TO 1+92 LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

STA 1+30 TO 1+67 LT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

END RECLAIM SECTION / BEGIN COLD PLANE SECTION, SEE TRANSITION AREA DETAIL, SHEET 3

2+18
2+33

BRIDGE #6
STA 2+67=MM 0.050
COLD PLANE 1½", PAVE 1½" TYPE IVS

STA 3+37 TO 4+50 LT
REMOVAL AND DISPOSAL OF GUARD RAIL

STA 3+37 TO 3+87 LT
INSTALL GUARD RAIL APPROACH SECTION, TYPE I (SEE DETAIL, SHEET 31)

STA 3+37 TO 4+32 LT
INSTALL TREATED TIMBER CURB

STA 3+87 TO 4+50 LT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

STA 4+50 LT (ALONG VT ROUTE 100)
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

STA 0+50 TO 2+25 RT
REMOVAL AND DISPOSAL OF GUARD RAIL

STA 1+75 TO 2+25 RT
INSTALL GUARD RAIL APPROACH SECTION, TYPE I (SEE DETAIL, SHEET 31)

0+88
STA ~~0+50~~ TO 1+75 RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

0+88
STA 0+50 TO ~~0+87~~ RT
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

TREATED TIMBER CURB
STA 2+12 TO 2+25 RT

STA 3+20 TO 4+25 RT
REMOVAL AND DISPOSAL OF GUARD RAIL

STA 3+20 TO 3+70 RT
INSTALL GUARD RAIL APPROACH SECTION, TYPE I (SEE DETAIL, SHEET 31)

STA 3+20 TO 3+45 RT
INSTALL TREATED TIMBER CURB

STA 3+70 TO 4+25 RT
INSTALL STEEL BEAM GUARD RAIL, GALVANIZED

STA 4+25 RT (ALONG VT ROUTE 100)
INSTALL MANUFACTURED TERMINAL SECTION, FLARED

3+65
RET
RET
STOP
STOP
RET
RET
RET
RET
R 1000 0805 0514
1003 0805 0009 R
B-TO-B
N 1000 0805 0514
1003 0805 0009 N
B-TO-B

REMOVAL AND DISPOSAL OF GUARD RAIL
STA 0+50 TO 2+25 RT
STA ~~1+30~~ TO 2+42 LT
STA 3+20 TO 4+25 RT
STA 3+37 TO 4+50 LT

GUARD RAIL APPROACH SECTION, TYPE I
STA 1+75 TO 2+25 RT
STA 1+92 TO 2+42 LT 1+28 TO 2+42
STA 3+20 TO 3+70 RT
STA 3+37 TO 3+87 LT

TREATED TIMBER CURB
STA 3+20 TO 3+45 RT
STA 3+37 TO 4+32 LT
STA 2+12 TO 2+25 RT

STEEL BEAM GUARD RAIL, GALVANIZED
STA ~~0+87~~ TO 1+75 RT 0+88 TO 1+75
STA 1+67 TO 1+92 LT
STA 3+70 TO 4+25 RT
STA 3+87 TO 4+50 LT

MANUFACTURED TERMINAL SECTION, FLARED
STA 0+50 TO ~~0+87~~ RT 0+50 TO 0+88
STA 1+30 TO 1+67 LT
STA 4+25 RT (ALONG VT ROUTE 100)
STA 4+50 LT (ALONG VT ROUTE 100)

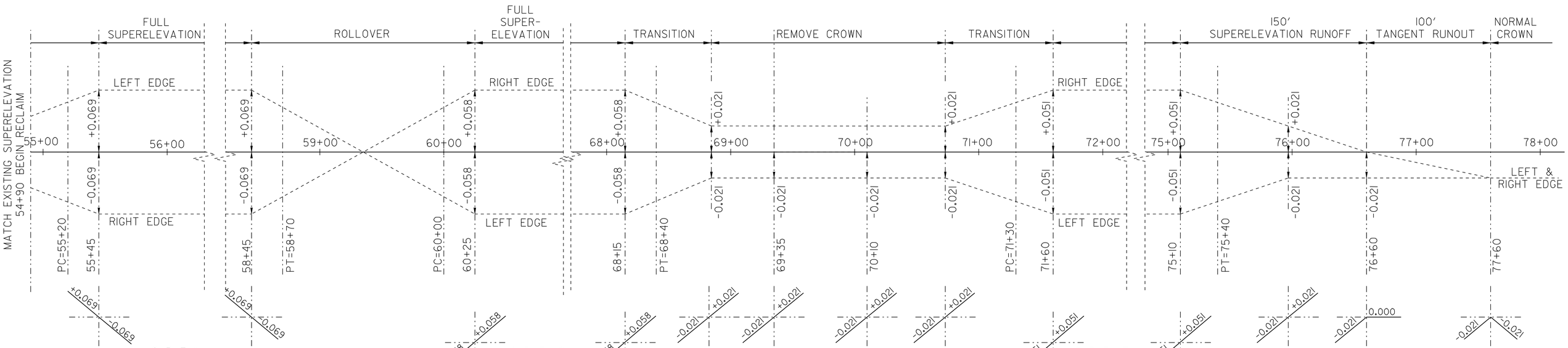
PAVEMENT CORES -

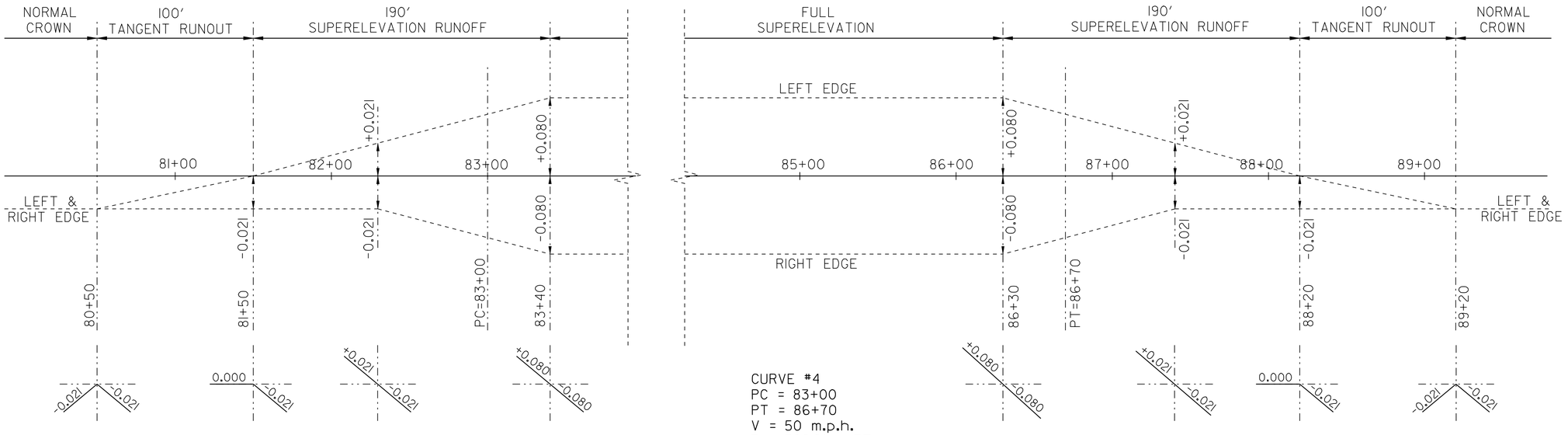
#	TOTAL DEPTH (in)	DRAINABLE BASE	SOLID CORE	COMMENTS
10	5.5	YES	YES	BRIDGE RECONSTRUCT TYPICAL

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

PAVING PROJECT LAYOUT SHEET #10

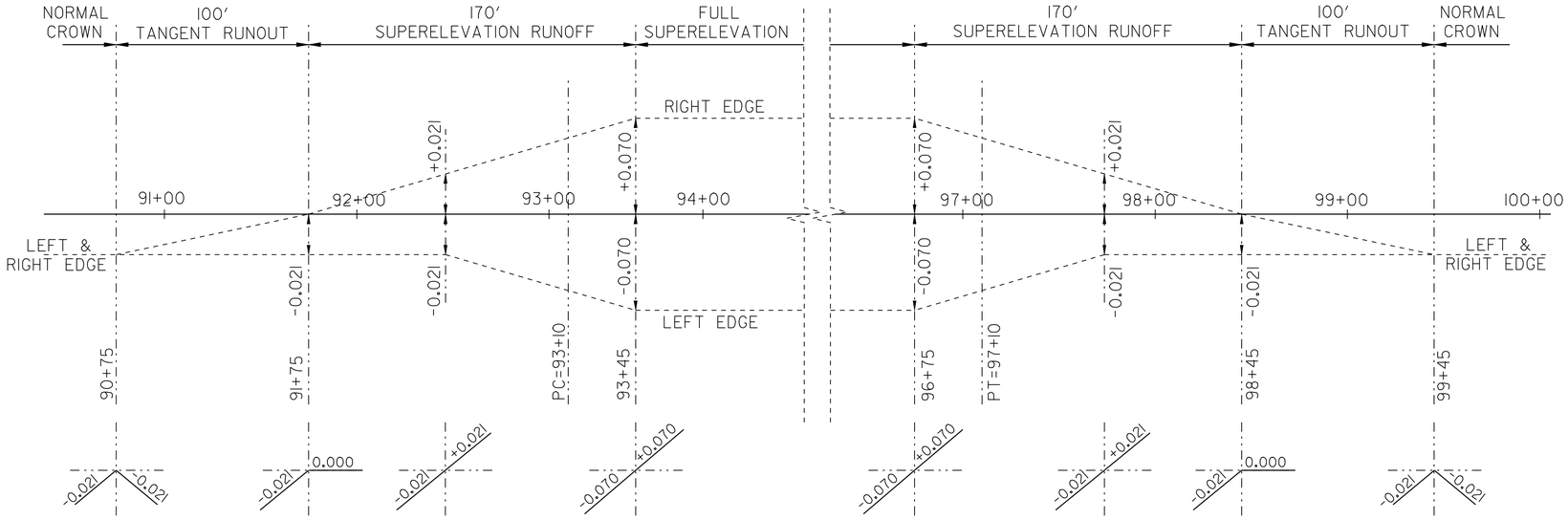
DESIGNED BY	BCE/PJM	DATE	7-07
DRAWN BY	C.E.A., INC.	DATE	7-07
DESIGN FILE NO.	p99cl82.dgn		
PRF FILE	p99cl82pl10.1	DATE PLOTTED	08-JAN-2009
PROJ. NAME	**JOHNSON-HYDE PARK**		
PROJ. NO.	**STP 2215(1)S**		
SHEET	**19** OF **33** SHEETS		



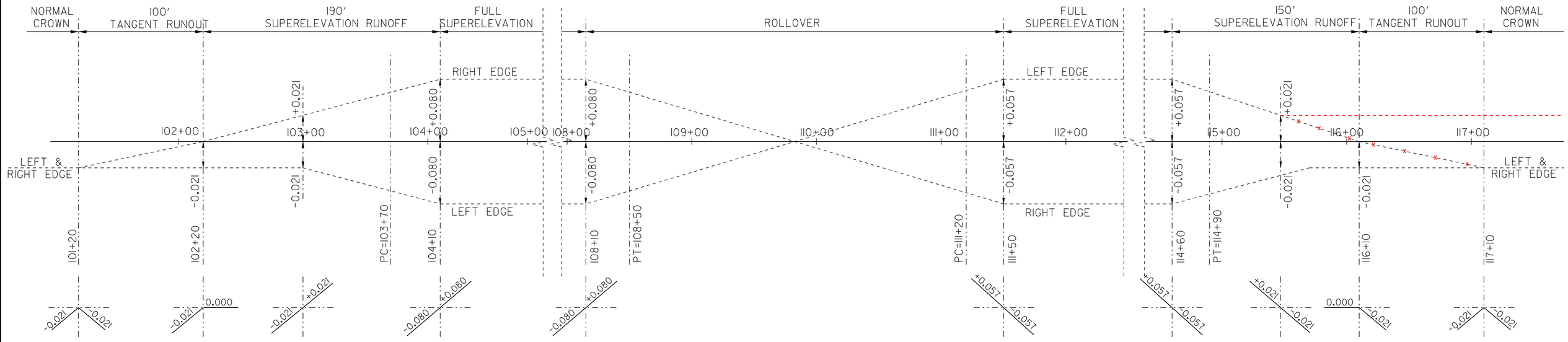


SUPERELEVATION BANKING DIAGRAM SHEET #1

DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p99cl82.dgn		
PRF FILE	p99cl82sbdl.i	DATE PLOTTED	08-JAN-2009 08
PROJ. NAME	**JOHNSON - HYDE PARK**		
PROJ. NO.	**STP 2215(1)S**		
SHEET **20** OF **33** SHEETS			



CURVE #5
PC = 93+10
PT = 97+10
V = 50 m.p.h.
R = 1,200ft - LT
D = 4^46'
e = 0.070
L = 170

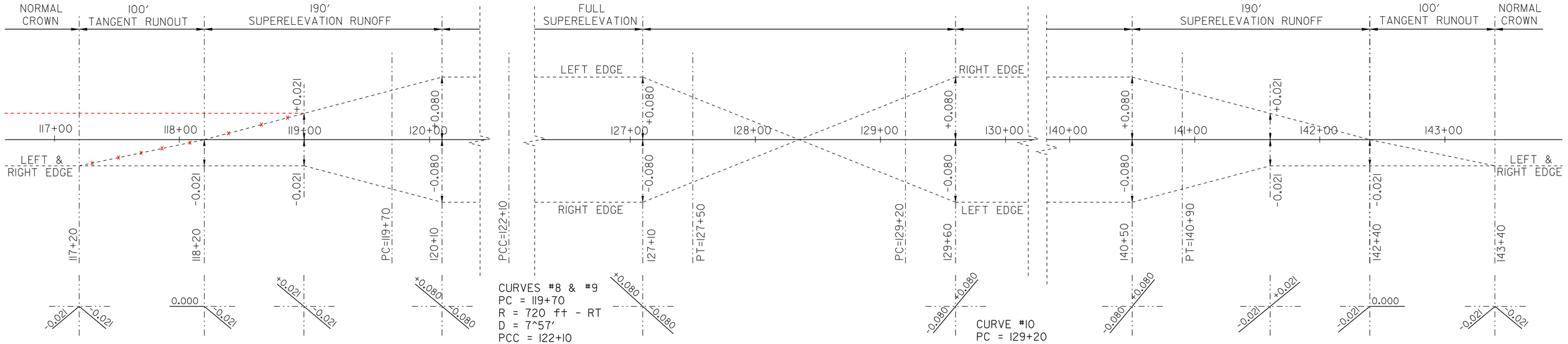


CURVE #6
PC = 103+70
PT = 108+50
V = 50 m.p.h.
R = 750ft - LT
D = 7^38'
e = 0.080
L = 190

CURVE #7
PC = 111+20
PT = 114+90
V = 50 m.p.h.
R = 1,700ft - RT
D = 3^22'
e = 0.057
L = 150

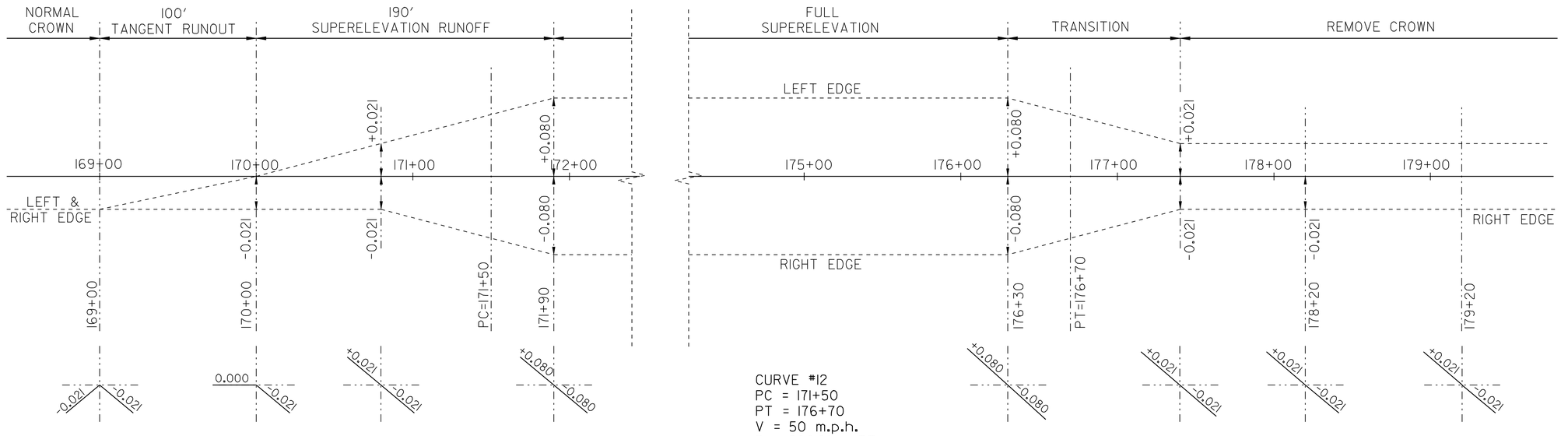
SUPERELEVATION BANKING DIAGRAM SHEET #2

DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p99cl82.dgn		
PRF FILE	p99cl82sbd2.i	DATE PLOTTED	08-JAN-2009 08
PROJ. NAME	JOHNSON - HYDE PARK		
PROJ. NO.	STP 2215(1)S		
SHEET	21 OF 33 SHEETS		



CURVES #8 & #9
PC = 119+70
R = 720 ft - RT
D = 7^57'
PCC = 122+10
R = 560 ft - RT
D = 10^14'
PT = 127+50
V = 50 m.p.h.
e = 0.080
L = 190

CURVE #10
PC = 129+20
PT = 140+90
V = 50 m.p.h.
R = 790ft - LT
D = 7^15'
e = 0.080
L = 190

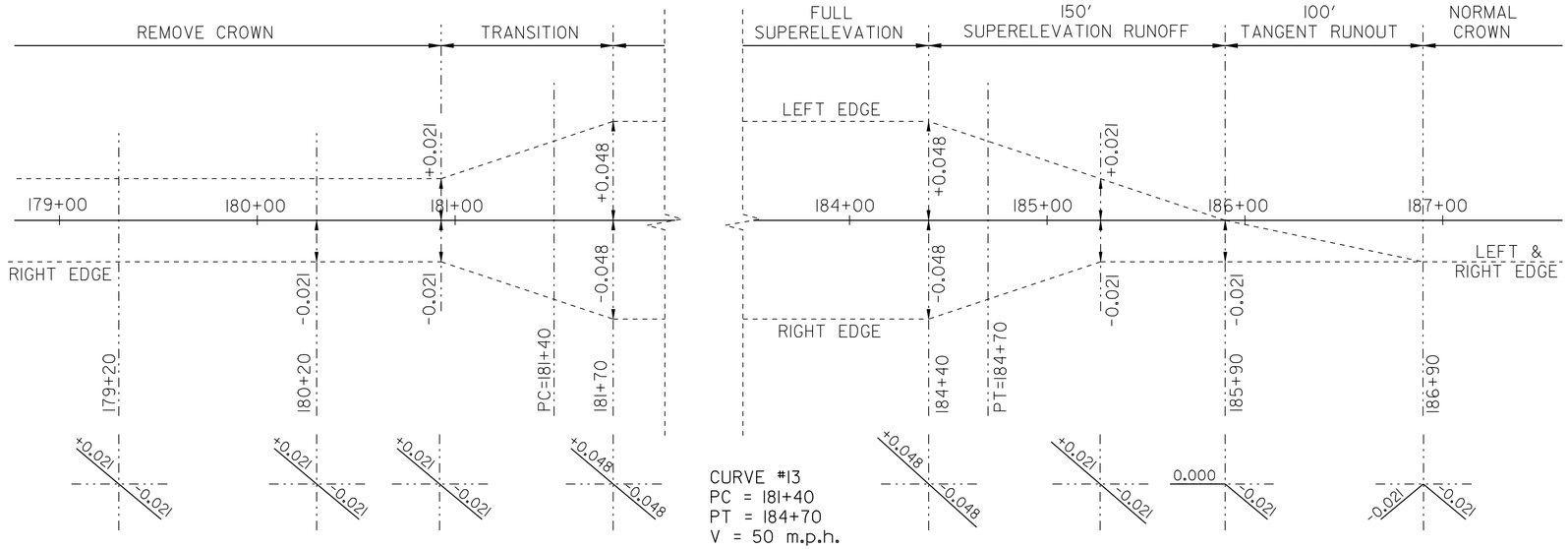


CURVE #11
PC = 163+20
PT = 168+40
V = 50 m.p.h.
R = 7,700ft - LT
D = 0^44'
NORMAL CROWN

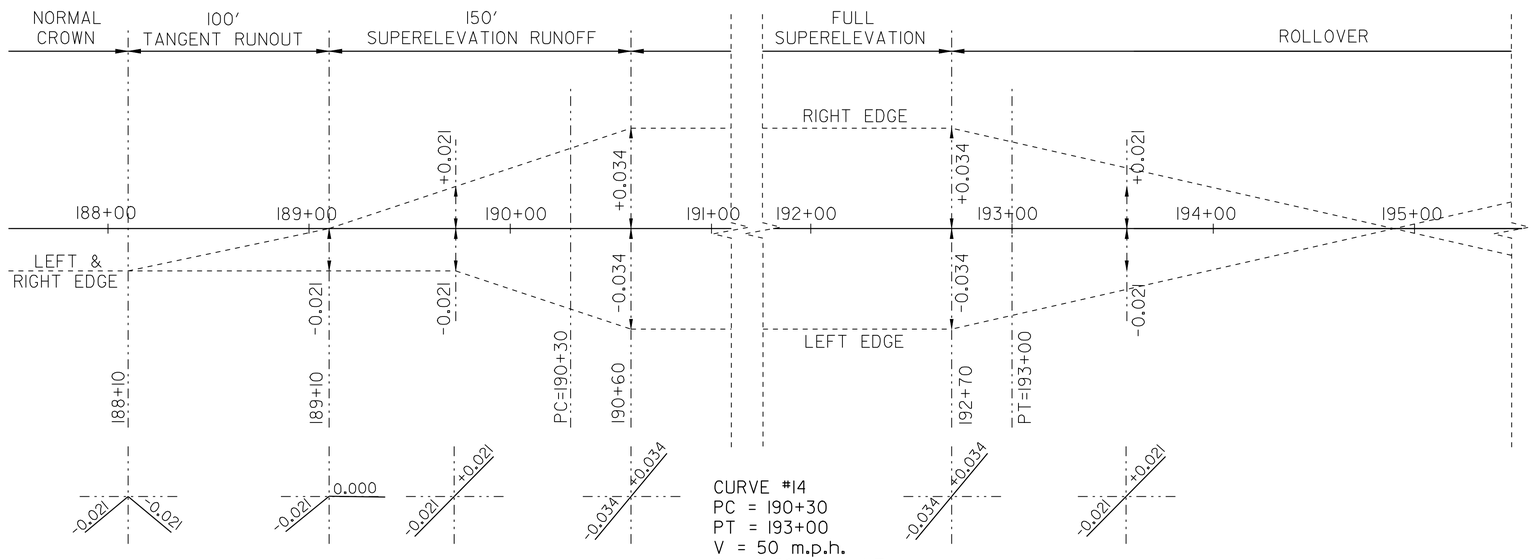
CURVE #12
PC = 171+50
PT = 176+70
V = 50 m.p.h.
R = 800ft - RT
D = 9^09'
e = 0.080
L = 190

SUPERELEVATION BANKING DIAGRAM SHEET #3

DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p99cl82.dgn		
PRF FILE	p99cl82sbd3.i	DATE PLOTTED	08-JAN-2009 08
PROJ. NAME	**JOHNSON - HYDE PARK**		
PROJ. NO.	**STP 2215(1)S**		
SHEET	**22** OF **33** SHEETS		



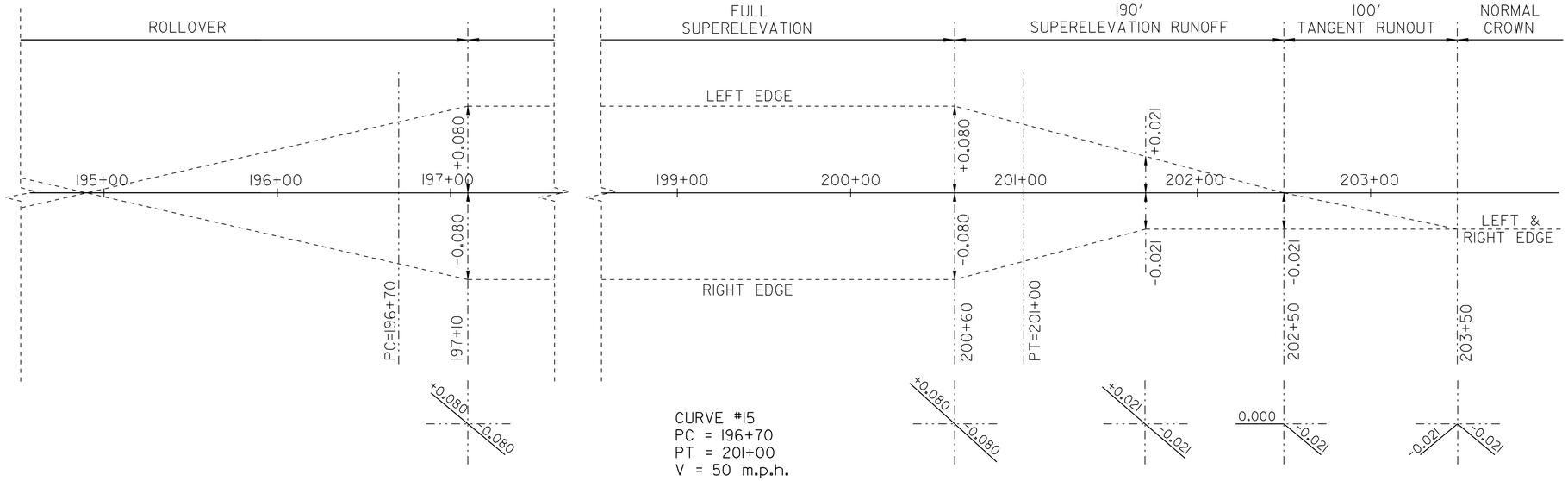
CURVE #13
PC = 181+40
PT = 184+70
V = 50 m.p.h.
R = 2,200ft - RT
D = 2^36'
e = 0.048
L = 150



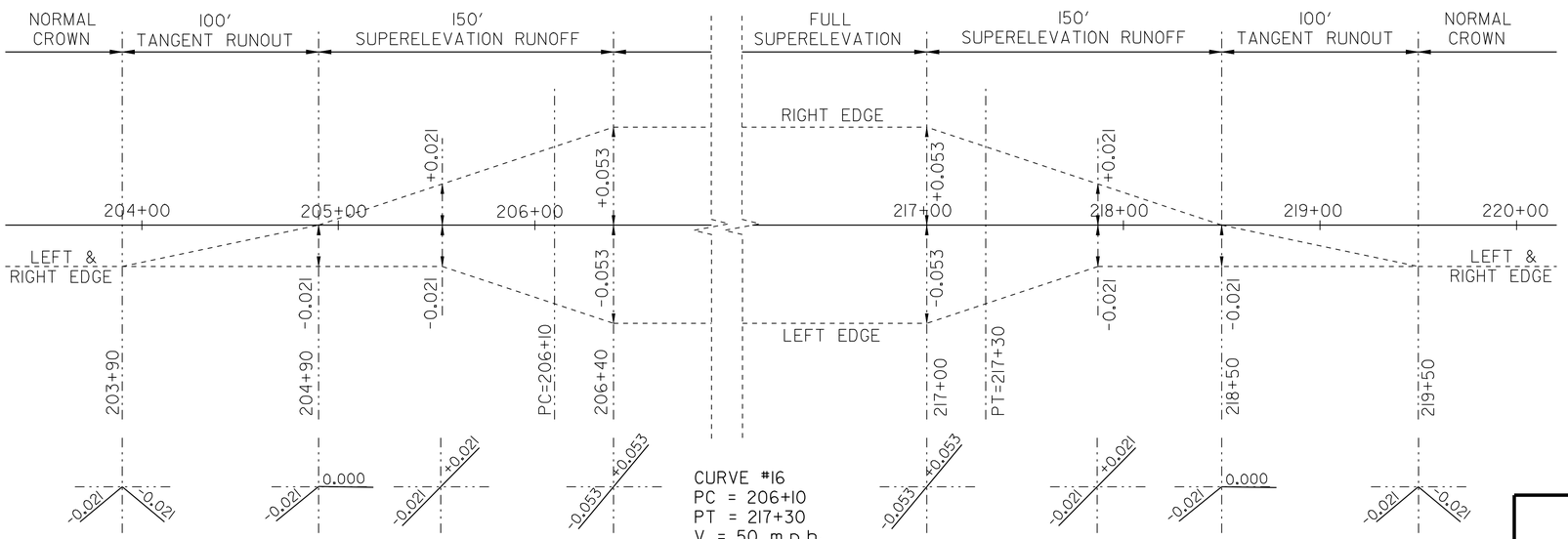
CURVE #14
PC = 190+30
PT = 193+00
V = 50 m.p.h.
R = 3,300ft - LT
D = 1^44'
e = 0.034
L = 150

SUPERELEVATION BANKING DIAGRAM SHEET #4

DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p99cl82.dgn		
PRF FILE	p99cl82sbd4.i	DATE PLOTTED	08-JAN-2009 08
PROJ. NAME	**JOHNSON - HYDE PARK**		
PROJ. NO.	**STP 2215(1)S**		
SHEET	**23** OF **33** SHEETS		



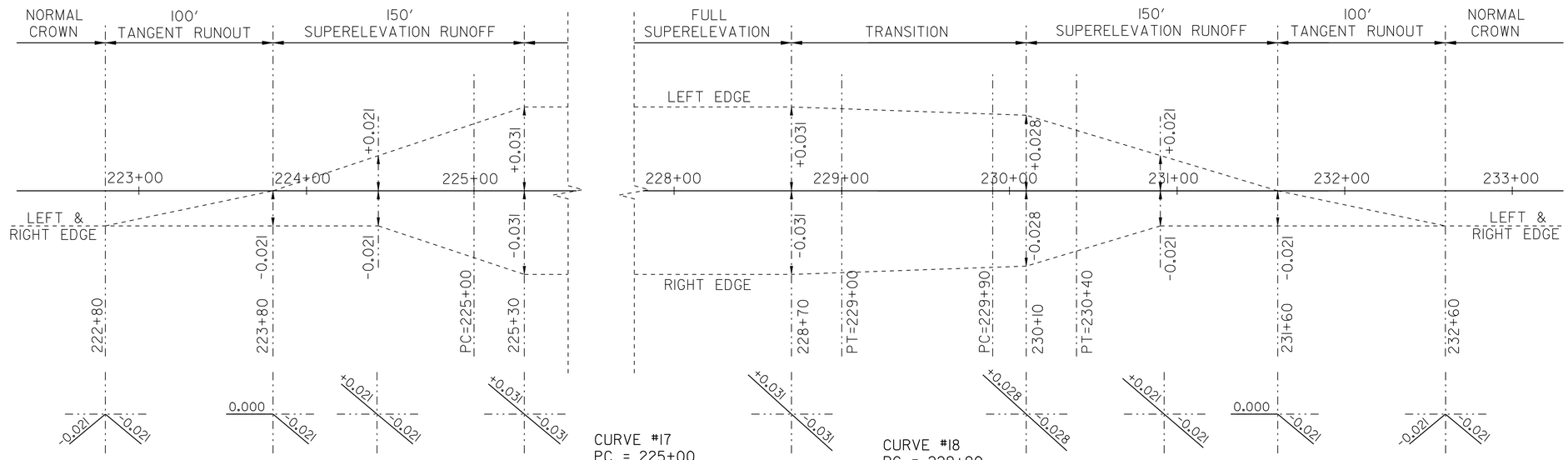
CURVE #15
PC = 196+70
PT = 201+00
V = 50 m.p.h.
R = 760ft - RT
D = 7^32'
e = 0.080
L = 190



CURVE #16
PC = 206+10
PT = 217+30
V = 50 m.p.h.
R = 1,920ft - LT
D = 2^59'
e = 0.053
L = 150

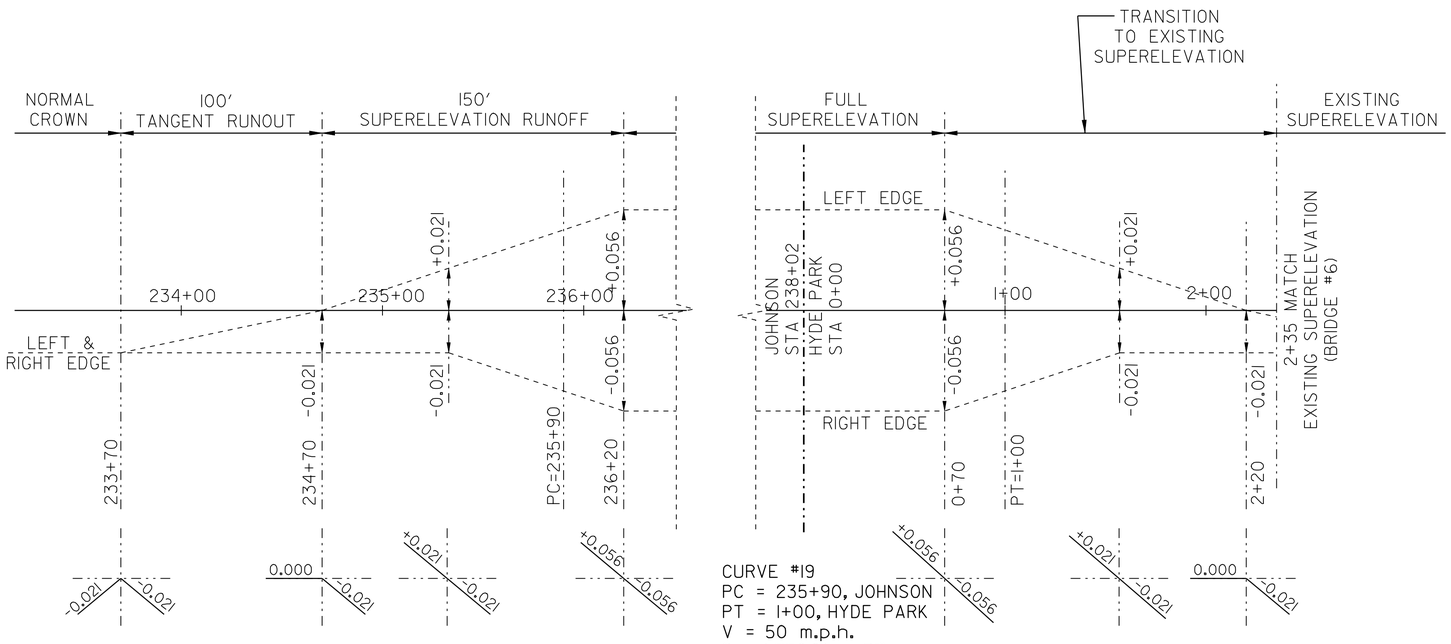
SUPERELEVATION BANKING DIAGRAM SHEET #5

DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p99cl82.dgn		
PRF FILE	p99cl82sbd5.i	DATE PLOTTED	08-JAN-2009 08
PROJ. NAME	**JOHNSON - HYDE PARK**		
PROJ. NO.	**STP 2215(1)S**		
SHEET	**24** OF **33** SHEETS		



CURVE #17
PC = 225+00
PT = 229+00
V = 50 m.p.h.
R = 3,700ft - RT
D = 1^32'
e = 0.031
L = 150

CURVE #18
PC = 229+90
PT = 230+40
V = 50 m.p.h.
R = 4,300ft - RT
D = 1^20'
e = 0.028
L = 150



CURVE #19
PC = 235+90, JOHNSON
PT = 1+00, HYDE PARK
V = 50 m.p.h.
R = 1,750ft - RT
D = 3^16'
e = 0.056
L = 150

SUPERELEVATION BANKING DIAGRAM SHEET #6

DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p99cl82.dgn		
PRF FILE	p99cl82sbd6.i	DATE PLOTTED	08-JAN-2009 08
PROJ. NAME	**JOHNSON - HYDE PARK**		
PROJ. NO.	**STP 2215(1)S**		
SHEET	**25** OF **33** SHEETS		

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 1

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.16	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0 MOD. lb/ft 1.7	FOUNDATION	TUBULAR STEEL Ø (in) 3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
														OPTION ITEMS																							
JOHNSON 49+50 RT	LEGAL LOAD LIMIT 24,000 POUNDS						1				1			13 X		X																		RELOCATE EXISTING SIGN.		
49+80 RT	STOP						1				1			13 X		X																		RELOCATE EXISTING SIGN.		
19+50 LT	STOP	1	30	30	6.25																															
51+15 LT		1	12	36	3.0						1			11 X		X																				E-120
51+15 RT		1	12	36	3.0						1			11 X		X																				E-120
51+55 RT		1	12	36	3.0						1			11 X		X																				E-120
51+55 LT		1	12	36	3.0						1			11 X		X																				E-120
52+55 LT		1	12	36	3.0						1			11 X		X																				E-120
52+55 RT		1	12	36	3.0						1			11 X		X																				E-120
53+10 RT		1	12	36	3.0						1			11 X		X																				E-120
53+10 LT		1	12	36	3.0						1			11 X		X																				E-120
76+60 RT	1003 0806 0145						1																											REMOVE EXISTING MILEMARKER AND REMOUNT BACK-TO-BACK ON EXISTING STOP SIGN.		
141+00 RT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.0						1			14 X		X																		REFER TO STANDARD E-121 FOR PLACEMENT.		E-141
					SF	SF	EA.	SF			LF	LF	LF 128 ~~165~~	LF	LF ~~165~~	LF		EA.	LB	LB	LB	EA.	LB	LB	LB	LB	EA.	EA.	LB						
		SHEET TOTALS			35.25 ~~29.0~~		3					128 ~~165~~				~~165~~																				

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.'

TRAFFIC SIGN SUMMARY SHEET #1

PROJECT: **JOHNSON - HYDE PARK**
PROJECT NO.: **STP 2215(1)S**
DATE: 7-07

DESIGN FILE NAME: p99c182.dgn
IPARM FILE NAME: p99c182tsl.l
SURVEYED BY:
SQUAD LEADER:

PLOT DATE: 08-JAN-2009 08:5
SURVEY DATE:
DRAWN BY: C.E.A., INC.
SHEET: **26** OF **33**

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 2

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	FLANGED CHANNEL lb/ft 2.0	FLANGED CHANNEL lb/ft 3.0	SQUARE STEEL (in) lb/ft 1.75 / 1.88	SQUARE STEEL (in) lb/ft 2.0 / 2.16	SQUARE STEEL (in) lb/ft 2.5 / 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0 / 1.3	TUBULAR ALUMINUM Ø (in) lb/ft 4.0 / 1.7	TUBULAR ALUMINUM Ø (in) lb/ft 4.0 MOD. / 1.7	FOUNDATION	TUBULAR STEEL Ø (in) lb/ft 3.0 / 7.6	TUBULAR STEEL Ø (in) lb/ft 3.5 / 9.0	TUBULAR STEEL Ø (in) lb/ft 4.0 / 10.8	TUBULAR STEEL Ø (in) lb/ft 5.0 / 14.6	W-SHAPE STEEL FTG. SIZE 24"	W-SHAPE STEEL FTG. SIZE 30"	W-SHAPE STEEL WEIGHT	W-SHAPE STEEL POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	SIGN DETAIL STD. SHEET NUMBER
														OPTION ITEMS																								
175+85 LT	STOP 1003 0806 0331	1	30	30	6.25		1				1			14 X		X																				BACK TO BACK		E-143
176+40 LT	LEGAL LOAD LIMIT 24,000 POUNDS	1	24	30	5.0						1			16 X		X																				REFER TO STANDARD E-121 FOR PLACEMENT.		E-141
	SPEED LIMIT 35						1																													MOUNT EXISTING SIGN WITH NEW LEGAL LOAD LIMIT.		
233+00 RT	DEAD END						1				1			13 X		X																						
HYDE PARK 3+65 RT	1000 0805 0514 / 1003 0805 0009	2	6	10	0.84																														REPLACE EXISTING MILEMARKERS, MOUNT BACK-TO-BACK TO EACH OTHER ON EXISTING STOP SIGN.		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."

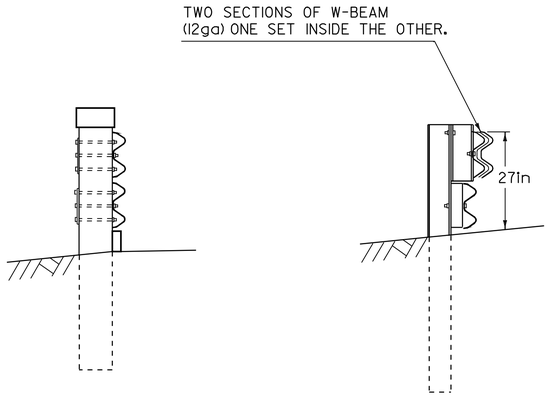
	SF	SF	EA.	SF	LF	LF	LF	LF	LF	LF	EA.	LB	LB	LB	EA.	LB	LB	LB	LB	EA.	EA.	LB
SHEET TOTALS	12.09		3				~~45~~		~~45~~													
							43															
	35.25						128															
SIGN SHEET #1	~~29.0~~		3				~~165~~		~~165~~													
SIGN SHEET #2	12.09		3				~~45~~		~~45~~													
PROJECT TOTALS	47.34 ~~41.09~~		6		171 ~~210~~		43		~~210~~													

TRAFFIC SIGN SUMMARY SHEET #2

PROJECT: **JOHNSON - HYDE PARK**
PROJECT NO.: **STP 2215(1)S**
DATE: 7-07

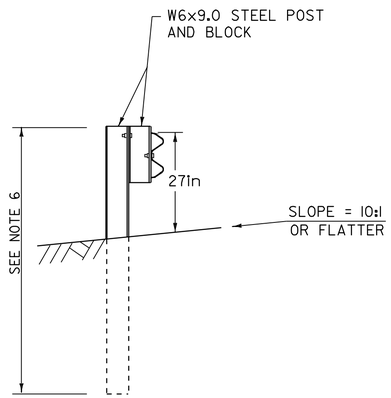
DESIGN FILE NAME: p99c182.dgn
IPARM FILE NAME: p99c182ts2.i
SURVEYED BY:
SQUAD LEADER:

PLOT DATE: 08-JAN-2009 08:5
SURVEY DATE:
DRAWN BY: C.E.A., INC.
SHEET: **27** OF **33**



SECTION A–A

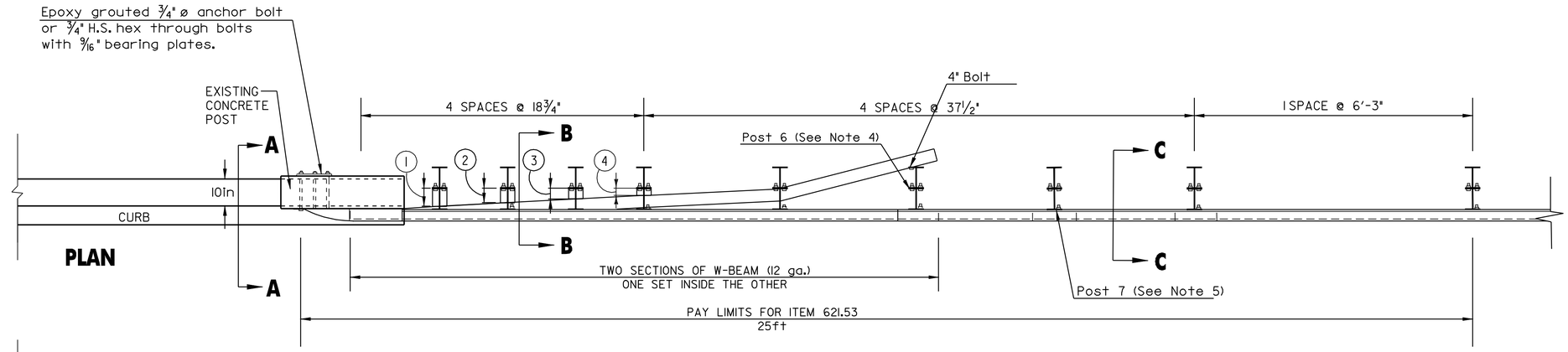
SECTION B–B



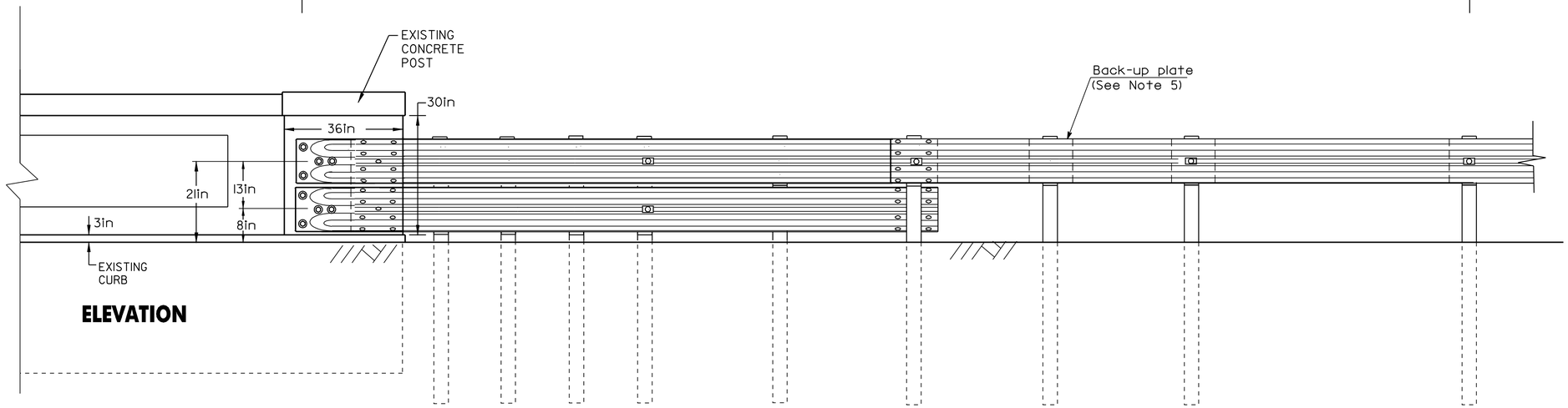
SECTION C–C

NOTES

1. THIS GUARD RAIL TRANSTION IS FOR CONNECTION TO A VERTICAL CONCRETE BRIDGE AND SHOULD NOT BE CONNECTED DIRECTLY TO A CONCRETE SAFTEY SHAPE.
2. BOTTOM BEAM BLOCKS ARE OFFSET DRILLED TO SIT SQUARELY ON THE POST FLANGE. BLOCKS ARE ATTACHED WITH 9/16" CARRIAGE BOLTS.
3. THE RUBRAIL MAY BE SHOP BENT IN THE LAST 3 FEET TO FACILITATE INSTALLATION.
4. POSTS 1, 2, 3, 4, AND 6 REQUIRE AN ADDITIONAL HOLE TO ATTACH LOWER BLOCKS AND OR LOWER BEAM.
5. AT POST 7, BACK-UP PLATE BOLTED TO BLOCK ONLY.
6. POSTS WILL BE 6 FT STEEL POSTS.



PLAN



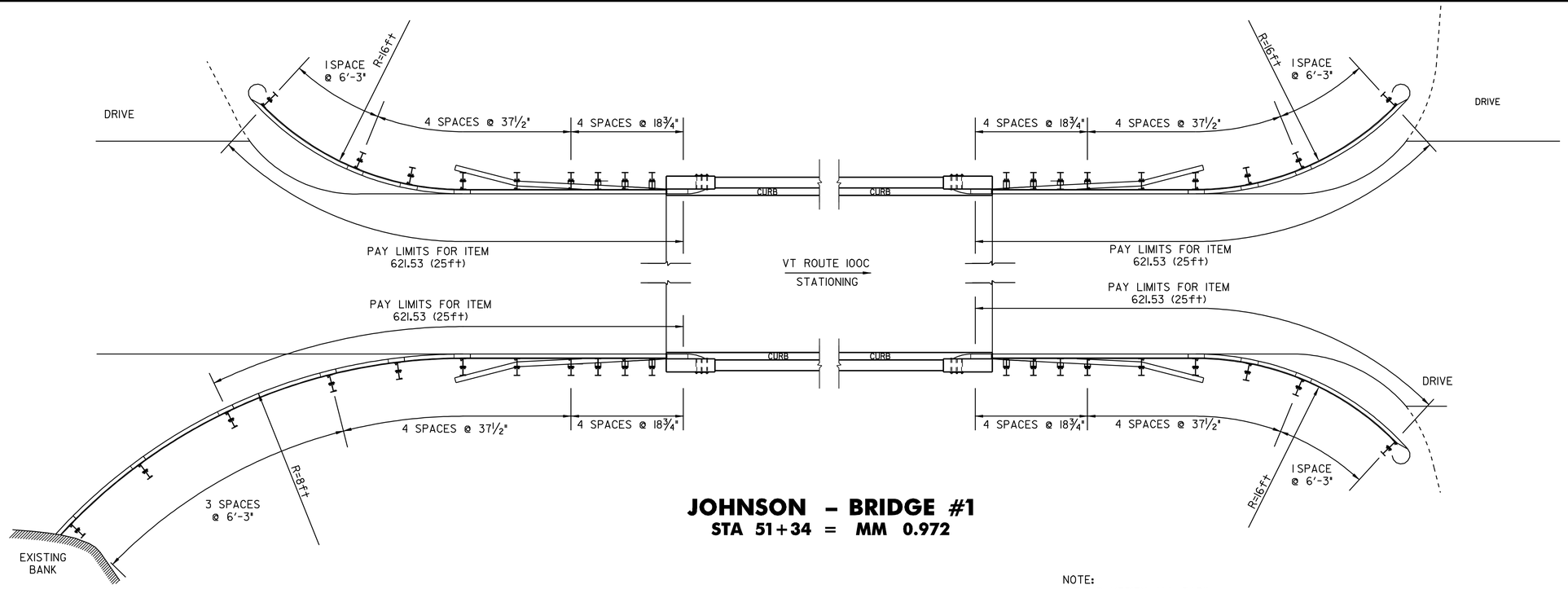
ELEVATION

No Scale

BOTTOM BEAM WOOD BLOCKS 14" x 4 1/2"	
POST #	THICKNESS
1	5In
2	4In
3	3In
4	2In

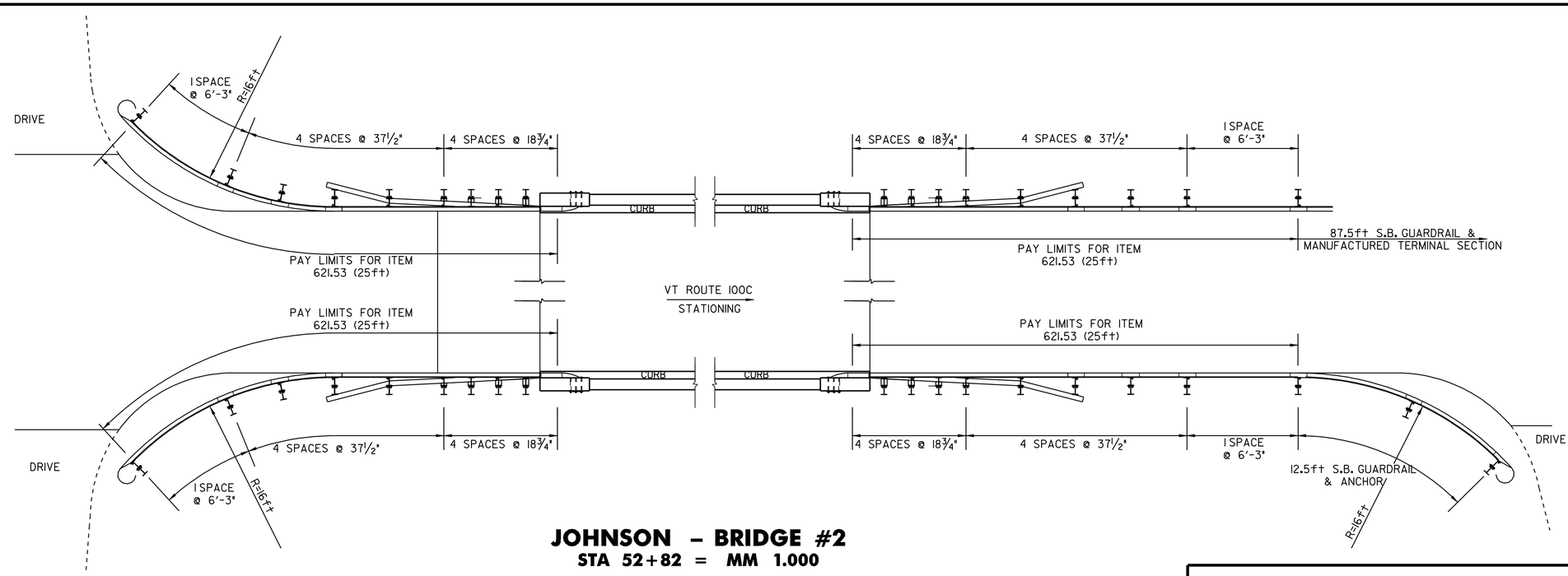
TERMINAL CONNECTOR FOR STEEL BEAM GUARD RAIL W/STEEL POSTS

DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p99cl82.dgn
PRF FILE p99cl82tc.1 DATE PLOTTED 08-JAN-2009 08
PROJ. NAME **JOHNSON – HYDE PARK**
PROJ. NO. **STP 2215(1)S**
SHEET **28** OF **33** SHEETS



JOHNSON – BRIDGE #1
STA 51+34 = MM 0.972

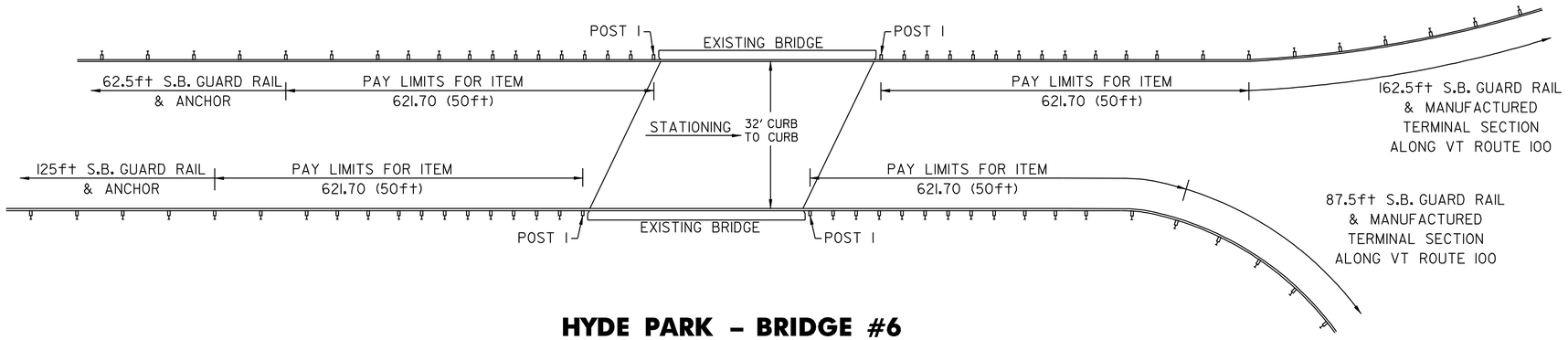
NOTE:
FIELD VERIFY ALL RADII.



JOHNSON – BRIDGE #2
STA 52+82 = MM 1.000

BRIDGE DETAIL SHEET #1

DESIGNED BY	BCE/PJM	DATE	6-07
DRAWN BY	C.E.A., INC.	DATE	6-07
DESIGN FILE NO.	p99cl82.dgn		
PRF FILE	p99cl82bdl.1	DATE PLOTTED	08-JAN-2009 08
PROJ. NAME	**JOHNSON – HYDE PARK**		
PROJ. NO.	**STP 2215(1)S**		
SHEET	**29** OF **33** SHEETS		



HYDE PARK – BRIDGE #6

STA 2+67 = MM 0.050

BRIDGE DETAIL
SHEET #2

DESIGNED BY BCE/PJM DATE 9-07

DRAWN BY C.E.A., INC. DATE 9-07

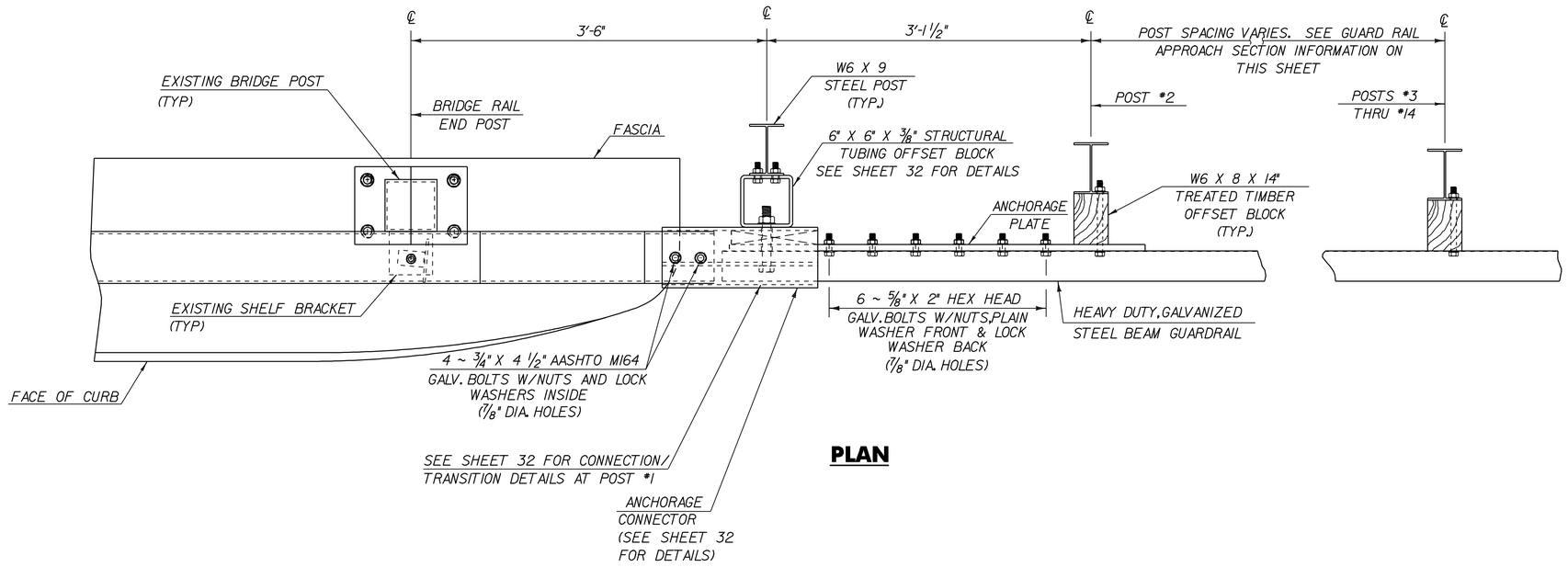
DESIGN FILE NO. p99c182.dgn

PRF FILE p99c182bd2.i DATE PLOTTED 08-JAN-2009 08

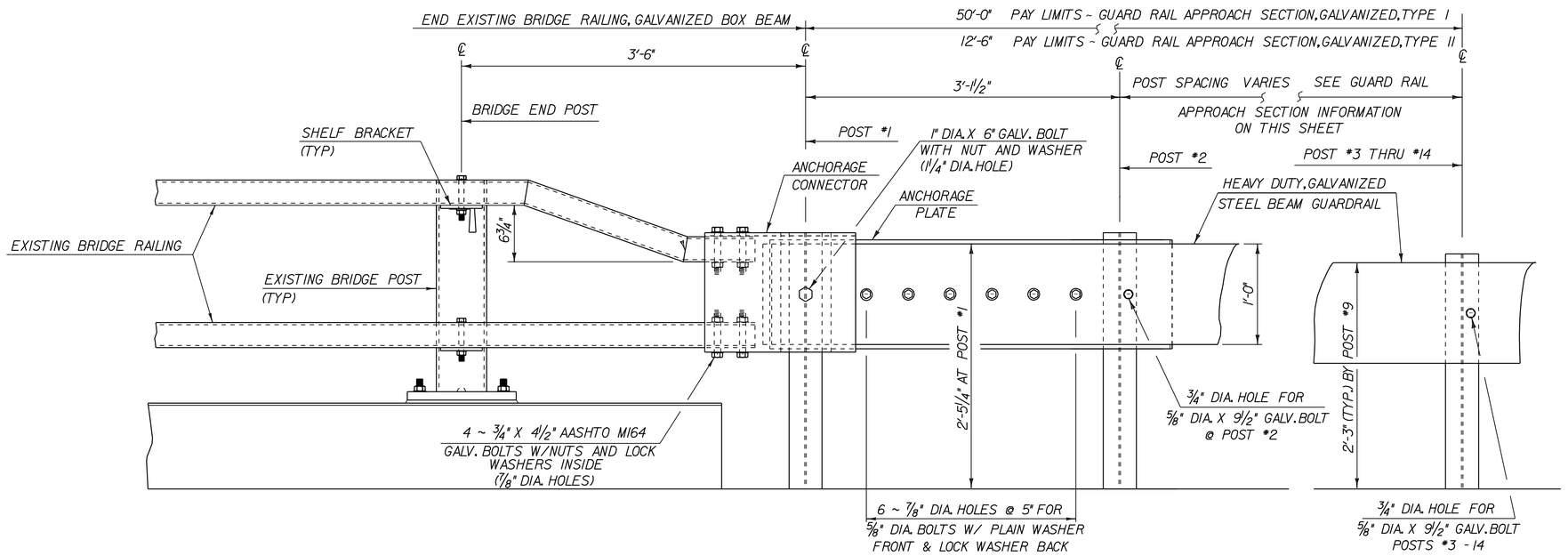
PROJ. NAME **JOHNSON – HYDE PARK**

PROJ. NO. **STP 2215(1)S**

SHEET **30** OF **33** SHEETS



PLAN



ELEVATION

GUARDRAIL APPROACH SECTION TYPE I

POST NO.	SPACING
1	
2	3'-1 1/2"
3	3'-1 1/2"
4	3'-1 1/2"
5	3'-1 1/2"
6	3'-1 1/2"
7	3'-1 1/2"
8	3'-1 1/2"
9	4'-2"
10	4'-2"
11	4'-2"
12	6'-3"
13	6'-3"
14	

50'-0" PAY LIMIT GUARDRAIL APPROACH SECTION, TYPE I

GUARDRAIL APPROACH SECTION TYPE II

POST NO.	SPACING
1	
2	3'-1 1/2"
3	4'- 8 1/4"
4	4'- 8 1/4"

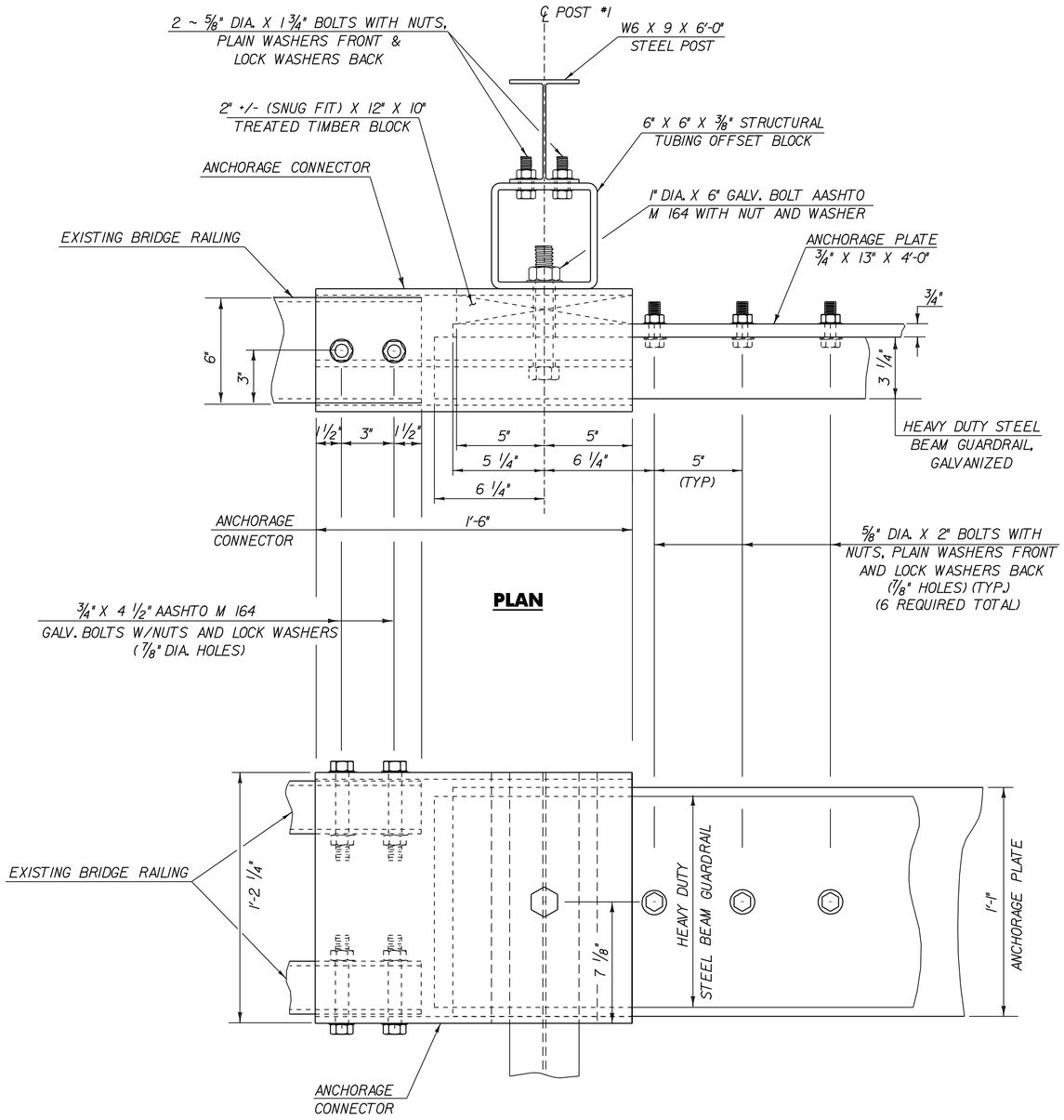
12'-6" PAY LIMIT GUARD RAIL APPROACH SECTION TYPE II

GUARDRAIL APPROACH SECTION DETAIL

DETAILS ARE NOT TO SCALE

GUARDRAIL APPROACH SECTION DETAIL SHEET #1

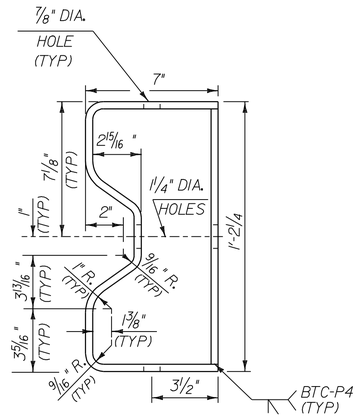
DESIGNED BY _____ DATE 9-07
DRAWN BY _____ DATE 9-07
DESIGN FILE NO. p99cl82.dgn
PRF FILE p99cl82gasdl.1 DATE PLOTTED 08-JAN-2009 08:5
PROJ. NAME **JOHNSON – HYDE PARK**
PROJ. NO. **STP 2215(1)S**
SHEET **31** OF **33** SHEETS



PLAN

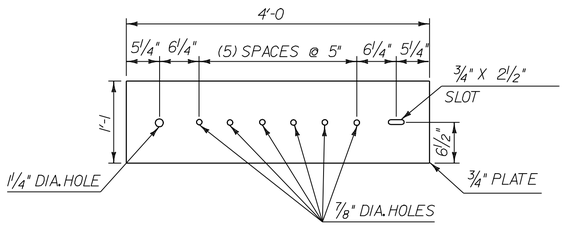
ELEVATION

CONNECTION/TRANSITION DETAILS AT POST NO. 1



ANCHORAGE CONNECTOR DETAIL

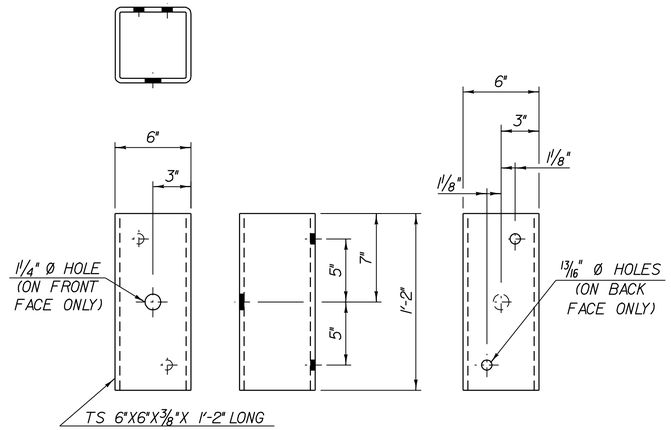
(SEE NOTE 8)



ANCHOR PLATE DETAIL

APPROACH RAIL NOTES:

1. REFER TO STANDARD G-1 FOR ADDITIONAL RAIL DETAILS.
2. ALL POSTS FOR HEAVY DUTY STEEL BEAM GUARD RAIL SHALL BE STEEL, IN ACCORDANCE WITH SECTION 728 "GUARD RAIL, GUIDE POSTS AND BARRIERS" UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.
3. APPROACH RAIL SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
4. ANCHORAGE CONNECTOR AND ANCHORAGE PLATE SHALL BE AASHTO M 270, GRADE 250 GALVANIZED TO AASHTO M 111 AFTER FABRICATION.
5. ALL BOLTS, NUTS AND WASHERS SHALL BE AASHTO M 164 GALVANIZED TO AASHTO M 232 AFTER FABRICATION.
6. STRUCTURAL TUBING OFFSET BLOCK SHALL BE AASHTO M 183 GALVANIZED TO AASHTO M 111 AFTER FABRICATION.
7. APPROACH RAILING SHALL BE HEAVY DUTY STEEL BEAM FOR 50'-0" FROM THE CL OF POST #1 FOR TYPE I AND 12'-6" FROM THE CL OF POST #1 FOR TYPE II.
8. ALLOWABLE DIMENSIONAL TOLERANCE FOR BENT SECTIONS IS +/- 1/16 OF AN INCH.
9. THE UNIT PRICES BID FOR EITHER TYPE OF GUARD RAIL APPROACH SECTION SHALL INCLUDE ANCHORAGE CONNECTOR, ANCHORAGE PLATE, HEAVY DUTY STEEL BEAM GUARD RAIL, POSTS, OFFSET BLOCKS, BLOCKING, BOLTS, AND ALL NECESSARY HARDWARE.



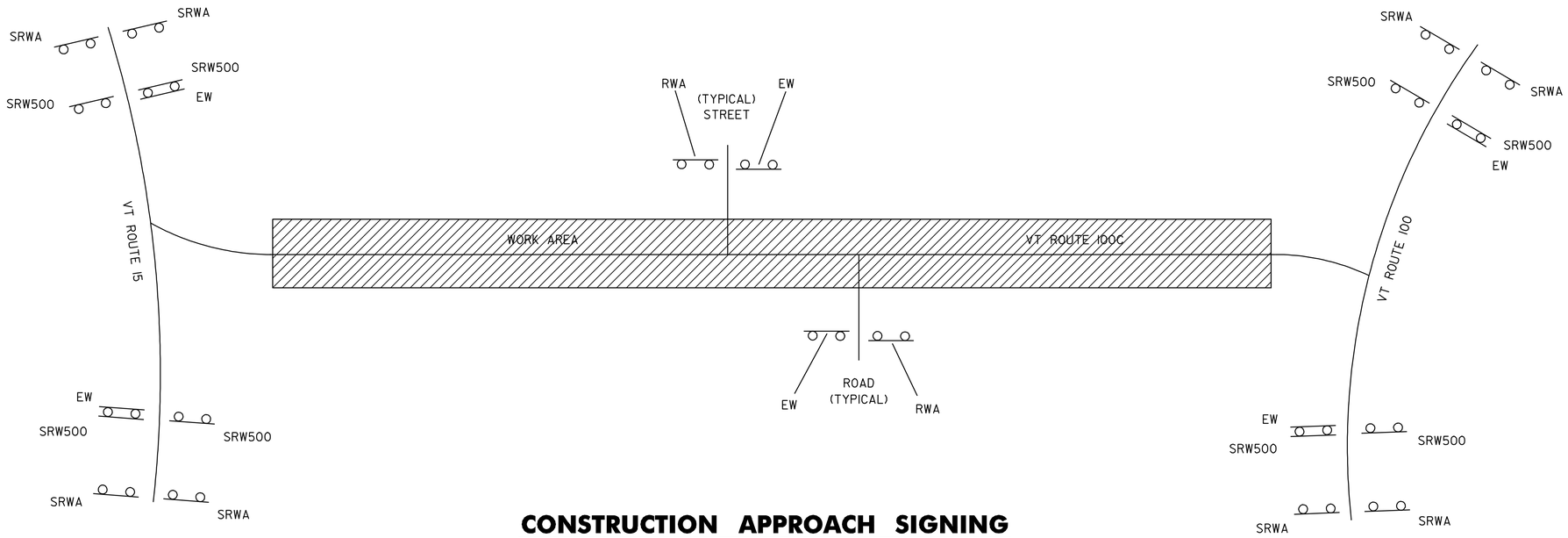
STRUCTURAL TUBING OFFSET BLOCK DETAILS

(OCCURS AT POST #1 WHEN USING APPROACH RAIL UTILIZING STEEL POSTS)

DETAILS ARE NOT TO SCALE

GUARDRAIL APPROACH SECTION DETAIL SHEET #2

DESIGNED BY		DATE	9-07
DRAWN BY		DATE	9-07
DESIGN FILE NO.	p99cl82.dgn		
PRF FILE	p99cl82gasd2.l	DATE PLOTTED	08-JAN-2009 08
PROJ. NAME	**JOHNSON – HYDE PARK**		
PROJ. NO.	**STP 2215(1)S**		
SHEET	**32** OF **33** SHEETS		



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.

LIST OF CONSTRUCTION SIGNS

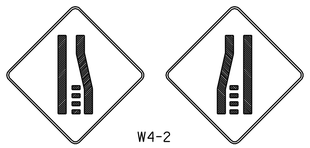
TOWN HIGHWAY	RWA	EW	SRWA	SRW500
JOHNSON				
BEGIN PROJECT		2	4	4
SCHOOL ROAD	1	1		
TH #56	1	1		
SINCLAIR ROAD	1	1		
ROCKY ROAD	1	1		
HOAG ROAD	1	1		
WHITCOMB ISLAND ROAD	1	1		
MINE ROAD	1	1		
WILSON ROAD	1	1		
OBER HILL ROAD	1	1		
BRADLEY ROAD	1	1		
HYDE PARK				
END PROJECT		2	4	4
TOTALS	10	14	8	8

LEGEND

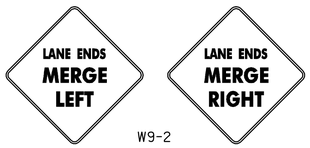
RWA = SIDE ROAD WORK AHEAD
SRWA = SIDE ROAD WORK AHEAD
SRW500 = SIDE ROAD WORK 500 FEET
EW = END WORK

NOTES:

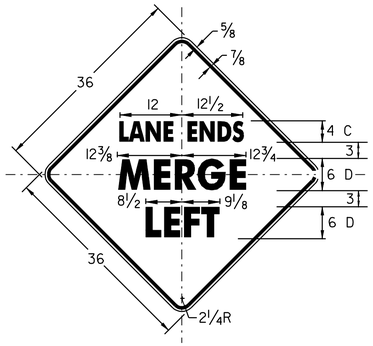
1. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL NOT BE PAID SEPARATELY BUT SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".
2. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION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



W4-2

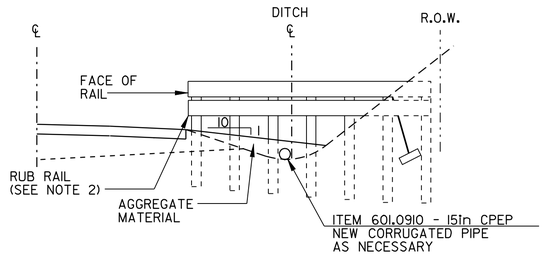


W9-2

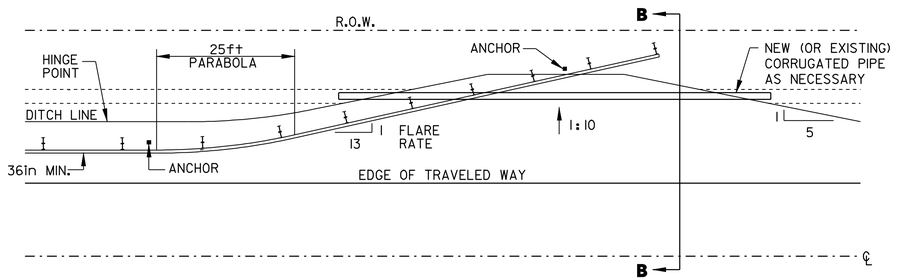


W9-2
MATERIALS & COLORS:
PER VAOT STANDARD E-154

DATUM
VERTICAL N/A
HORIZONTAL N/A



SECTION B–B



DETAIL FOR BURIED GUARDRAIL ENDS INTO BACKSLOPES

NOT TO SCALE

JOHNSON
STA 50+65 RT

NOTES:

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

CONSTRUCTION APPROACH SIGNING AND BURIED END TERMINAL DETAIL SHEET

DESIGNED BY BCE/PJM DATE 6-07
DRAWN BY C.E.A., INC. DATE 6-07
DESIGN FILE NO. p99cl82.dgn
PRF FILE p99cl82cas.1 DATE PLOTTED 08-JAN-2009 08
PROJ. NAME **JOHNSON – HYDE PARK**
PROJ. NO. **STP 2215(1)S**
SHEET **33** OF **33** SHEETS