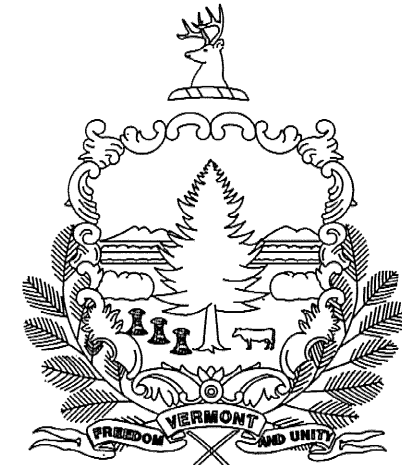


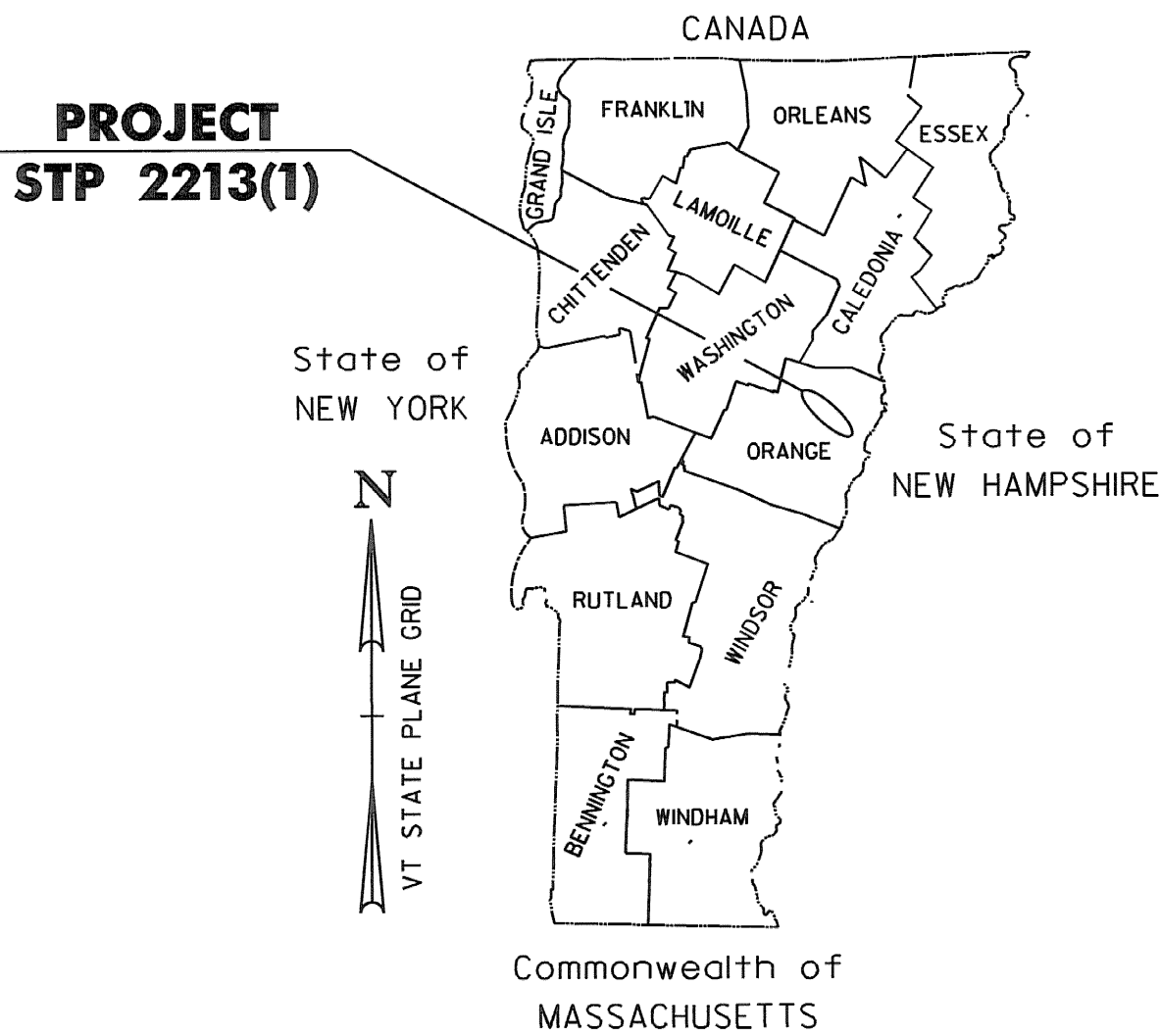
INDEX OF SHEETS
SEE SHEET 2

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
TOWNS OF BRADFORD, CORINTH, TOPSHAM & ORANGE
COUNTY OF ORANGE
VT ROUTE 25

BEGINNING IN THE TOWN OF BRADFORD AT STA. 332+48.16 (MM 6.297) AND EXTENDING NORTHERLY ALONG VT ROUTE 25 FOR A DISTANCE OF 60,392.64 FEET (11.438 MILES)
THROUGH THE TOWNS OF CORINTH AND TOPSHAM TO THE TOWN OF ORANGE AT THE INTERSECTION OF U.S. ROUTE 302 AT STA. 16+31.52 (MM 0.309).



RECORD PLANS	
CONTRACTOR:	PIKE INDUSTRIES, INC. - BERLIN, VT
RESIDENT ENGINEER:	CARL FIELDER
CONSTRUCTION BEGAN:	AUGUST 3, 2009
CONSTRUCTION COMPLETE:	NOVEMBER 12, 2009
RECORD PLANS BY:	CARL FIELDER & C. PIERCE
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY <u>Carl H. Fielder</u>	RESIDENT ENGINEER
DATE <u>April 23, 2010</u>	
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.	

PROJECT DATA:	LENGTH (FEET)	LENGTH (MILES)
TOWN OF BRADFORD VT ROUTE 25 STA. 332+48.16 TO 367+38.24 MM 6.297 TO 6.958	3,490.08	0.661
TOWN OF CORINTH VT ROUTE 25 STA 0+00.00 TO 209+93.28 MM 0.000 TO 3.976	20,993.28	3.976
TOWN OF TOPSHAM VT ROUTE 25 STA 0+00.00 TO 342+77.76 MM 0.000 TO 6.492	34,277.76	6.492
TOWN OF ORANGE VT ROUTE 25 STA. 0+00.00 TO 16+31.52 MM 0.000 TO 0.309	1,631.52	0.309

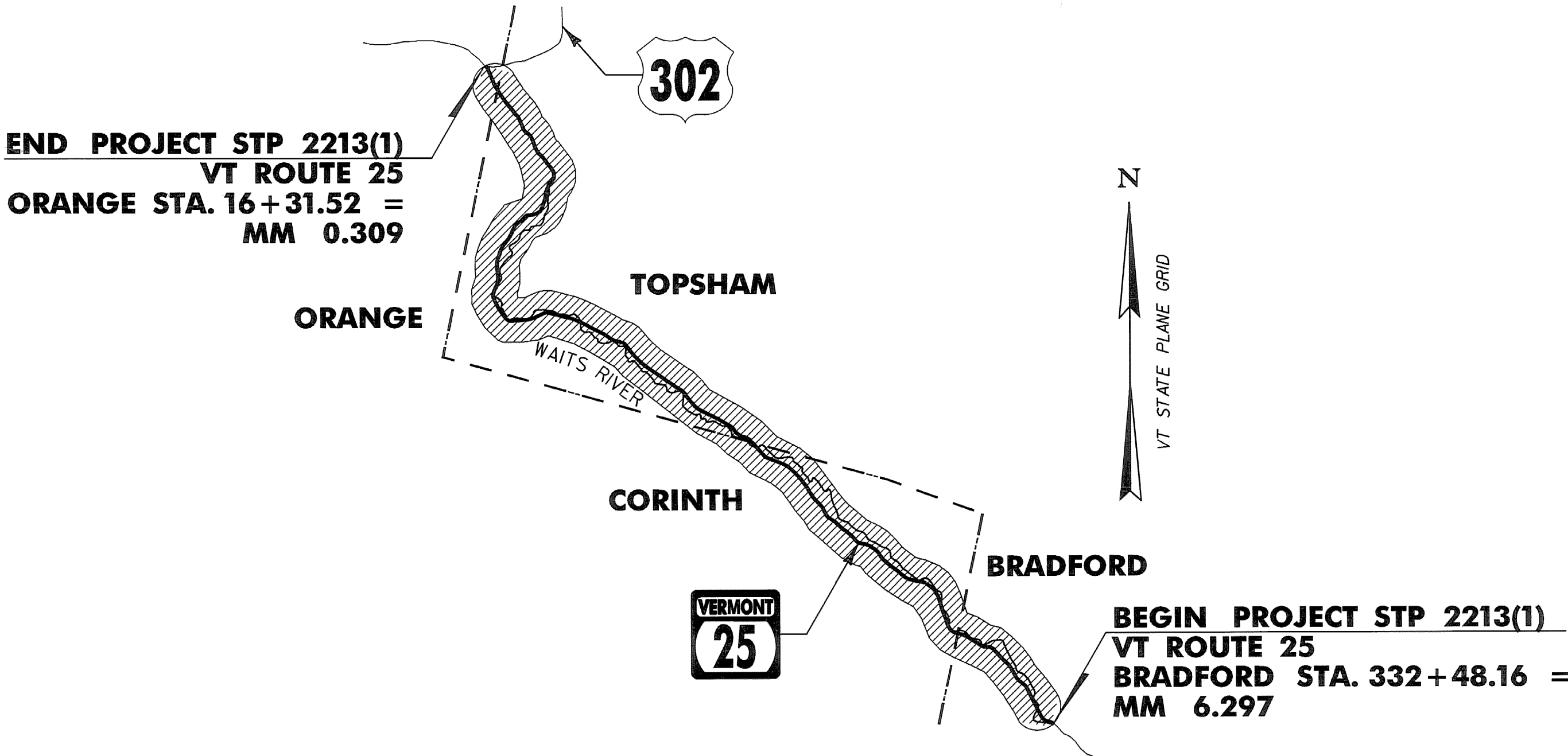
SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESALS	848,500
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADE ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS

TRAFFIC DATA
VT ROUTE 25

LOCATION	AADT		DHV		ESALS	
	2008	2018	2008	2018	2008-2018	2008-2028
BEGIN PROJECT TO BROOK ROAD IN CORINTH	2,700	3,000	310	340	709,000	1,697,000
BROOK ROAD TO PIKE HILL ROAD IN TOPSHAM	2,200	2,500	250	280	577,000	1,404,000
PIKE HILL ROAD TO END PROJECT	1,600	1,800	180	200	453,000	1,097,000

TOTAL LENGTH OF PROJECT: 60,392.64 FEET = 11.438 MILES
TOTAL LENGTH OF ROADWAY: 60,392.64 FEET = 11.438 MILES

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE EXISTING HIGHWAY WITH A LEVELING COURSE AND A WEARING COURSE, NEW PAVEMENT MARKINGS, GUARD RAIL, SIGNS AND OTHER INCIDENTAL ITEMS



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 PURPOSES.

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.

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

DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED <u>Paul J. Fitch</u>	DATE <u>5-20-09</u>
PROJECT MANAGER : TED DOMEY	
PROJECT NAME : BRADFORD-ORANGE	
PROJECT NUMBER : STP 2213(1)	
SHEET 1 OF 84 SHEETS	



p99bl78.dgn
p99bl78+1.s.i

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

SURVEYED BY : N/A
SURVEYED DATE : N/A
DATUM
VERTICAL N/A
HORIZONTAL N/A

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS
3-4	PROJECT TYPICAL SHEETS
5	ASPHALTIC PLUG JOINT DETAIL SHEET
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9-14	ITEM DETAIL SUMMARY SHEETS
15-16	DRIVE DETAIL SHEETS
17	DITCH CLEANING DETAIL SHEET
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72	GUARDRAIL DETAIL SHEET
73-81	BRIDGE DETAIL SHEETS
82	TEMPORARY TRAFFIC CONTROL PLAN
83	MISCELLANEOUS DETAIL SHEET
84	STRUCTURE DETAIL SHEET

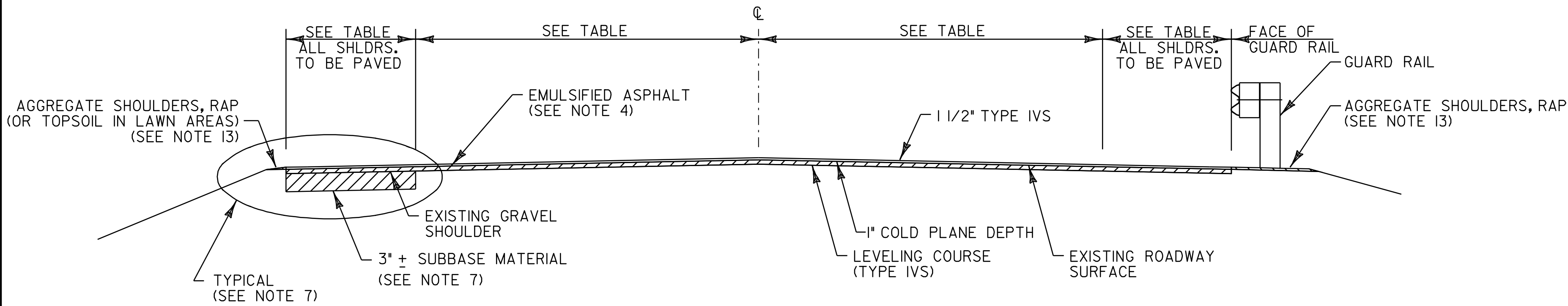
VAOT STANDARDS

C-10	02-11-08
D-6	06-01-94
D-8	01-03-00
D-9	06-01-94
D-15	06-01-94
D-16	06-01-94
E-100	01-02-04
E-100A	01-02-04
E-101	05-30-03
E-102	06-30-03
E-102A	05-01-04
E-106	03-01-04
E-108	12-08-08
E-108A	12-08-08
E-110	08-08-95
E-121	08-08-95
E-123	03-16-04
E-128B	08-08-95
E-134	08-08-95
E-136A	08-08-95
E-136B	08-08-95
E-138	05-30-03
E-141	09-20-95
E-142	09-20-95
E-143	06-15-04
E-150	05-01-04
E-151	05-01-04
E-153	05-01-04
E-154	05-01-04
E-155	05-01-04
E-160	05-20-99
E-161	08-18-95
E-162	05-20-99
E-163	05-20-99
E-164	05-20-99
E-191	02-01-99
E-192	10-12-00
E-193	08-18-95
G-1	01-03-00
G-1d	01-03-00
G-10	02-23-95
G-19	11-15-02
J-3	08-07-95
SB-R4B-82	03-30-88
SB-R6-82	01-06-95

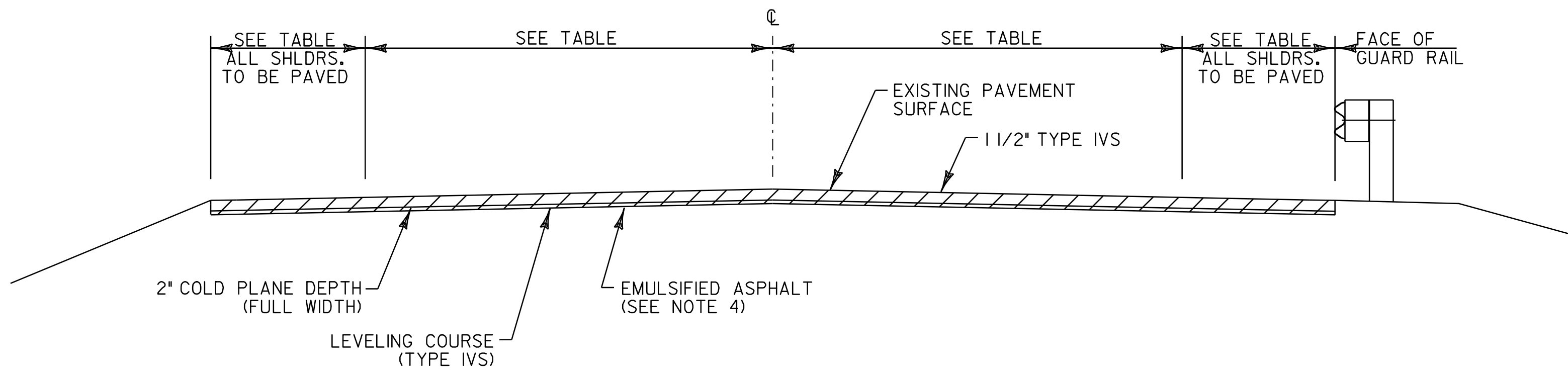


INDEX OF SHEETS

PROJECT NAME: BRADFORD - ORANGE	
PROJECT NUMBER: STP 2213(1)	
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178pts01.i	SHEET 2 OF 84



COLD PLANE & OVERLAY TYPICAL SECTION
VT ROUTE 25 BRADFORD STA. 332+48.16 TO TOPSHAM STA. 233+37.60



COLD PLANE & OVERLAY TYPICAL SECTION
VT ROUTE 25 TOPSHAM STA. 233+37.60 TO ORANGE STA. 16+31.52
U.S. ROUTE 302 ORANGE STA. 319+44 TO 322+03

NOTES

1. THE PAVEMENT WEARING COURSE SHALL BE 65 GYRATION SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS. THE ESTIMATED 1/2\"/>
2. GRASS GROWING ADJACENT TO PAVEMENT OR THROUGH CRACKS IN THE PAVEMENT WHICH MAY HAMPER THE PLACEMENT OF NEW BITUMINOUS CONCRETE SHALL BE REMOVED BY THE CONTRACTOR AS DIRECTED BY THE VAO T RESIDENT ENGINEER. PAYMENT FOR THIS WORK WILL NOT BE MADE DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
3. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = ±1/4\"/>
4. EMULSIFIED ASPHALT SHALL BE APPLIED ON EXISTING PAVEMENT SURFACES, BETWEEN ALL COURSES OF PAVEMENT AND ON COLD PLANED SURFACES AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE VAO T RESIDENT ENGINEER.
5. COLD PLANING TO BE COMPLETED ACCORDING TO THE TYPICAL OR AS NOTED OTHERWISE ON THE PLANS. THE COLD PLANING AND PAVING SHALL MATCH THE EXISTING CONDITIONS AT THE BEGINNING AND END OF CONSTRUCTION AREAS BY THE USE OF A VERTICAL COLD PLANE JOINT. SEE DETAIL ON SHEET 3.
6. BITUMINOUS CONCRETE PAVEMENT WORK WHICH COULD INVOLVE SOME HAND-WORK (SUCH AS AROUND SEWER MANHOLES AND DROP INLETS, ETC.) SHALL BE PAID AS ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
7. EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE VAO T RESIDENT ENGINEER SHALL BE EXCAVATED TO A DEPTH OF 3\"/>
8. QUANTITIES FOR ITEMS 604.412, 604.415 AND 604.418 REHAB. DROP INLETS, CATCH BASINS OR MANHOLES, CLASS I, II OR III HAVE BEEN INCLUDED IN THE QUANTITIES TO BE USED AS DIRECTED BY THE VAO T RESIDENT ENGINEER. ALL D'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS EVEN WITH THE SURROUNDING TERRAIN.
9. ESTIMATED QUANTITIES OF ITEMS 608.25 ALL PURPOSE EXCAVATOR RENTAL, TYPE I, ITEM 608.37 TRUCK RENTAL AND ITEM 608.40 LOADER RENTAL, TYPE I HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL 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 GUARDRAIL END SECTION FLARE AREA. 25 CUBIC YARDS OF EARTH BORROW HAVE BEEN ESTIMATED FOR EACH NEW GUARDRAIL END SECTION FLARE. ITEM 653.20 TEMPORARY EROSION MATTING SHALL BE PLACED ON ALL SLOPES CREATED BY THE GUARDRAIL END SECTION FLARE. THE QUANTITIES INCLUDED REFLECT 25 SY OF ITEM 653.20 TEMPORARY EROSION MATTING FOR EACH NEW GUARDRAIL END SECTION FLARE.
10. THE PROPOSED GUARDRAIL SHALL BE INSTALLED A MINIMUM OF 16 FEET FROM THE CENTER OF THE ROAD OR A DISTANCE THAT MAXIMIZES THE DISTANCE FROM THE CENTER OF THE ROAD TO THE FACE OF GUARDRAIL AS DIRECTED BY THE VAO T RESIDENT ENGINEER. 3' OF BACKING IS REQUIRED BEHIND THE FACE OF GUARDRAIL WITH 6' POSTS. IF THIS CANNOT BE OBTAINED, THEN 8' POSTS SHALL BE USED.
11. ALL PUBLIC, PRIVATE OR FIELD DRIVES SHALL RECEIVE A MINIMUM 4' PAVED APRON PAYABLE UNDER ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES) UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. ALL OTHER BITUMINOUS MATERIALS PLACED WITHIN THE PROJECT LIMITS WHETHER BY HAND OR MECHANICAL METHODS SHALL BE PAID UNDER THE APPROPRIATE CONTRACT ITEM FOR BITUMINOUS CONCRETE PAVEMENT.
12. AN ESTIMATED QUANTITY OF ITEM 619.17 YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE VAO T RESIDENT ENGINEER.
13. ALL EDGES OF PAVEMENT SHALL BE BACKED UP TO FULL HEIGHT WITH COLD PLANE GRINDINGS AS DIRECTED BY THE VAO T RESIDENT ENGINEER, AND WILL BE PAID FOR UNDER ITEM 402.13 AGGREGATE SHOULDERS, RAP.
14. 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 SIDE ROAD APPROACHES, AND AROUND DRAINAGE/UTILITY STRUCTURES), SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.

BRADFORD, VT ROUTE 25		332+48.16	356+49.7	VARIES		1 1/2"	1/2"	PROJECT PAVING LIMITS
TOWN & ROUTE	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	LEVELING DEPTH	NOTES		
BRADFORD, VT ROUTE 25	332+48.16 356+49.7	367+38.24	VARIES - SEE LAYOUT SHEETS	1 1/2"	1/2"	COLD PLANE 1", LEVEL WITH TYPE IVS, THEN OVERLAY WITH 1 1/2" TYPE IVS		
CORINTH, VT ROUTE 25	0+00.0	209+93.28	VARIES - SEE LAYOUT SHEETS	1 1/2"	1/2"	COLD PLANE 1", LEVEL WITH TYPE IVS, THEN OVERLAY WITH 1 1/2" TYPE IVS		
TOPSHAM, VT ROUTE 25	0+00.0	233+37.60	VARIES - SEE LAYOUT SHEETS	1 1/2"	1/2"	COLD PLANE 1", LEVEL WITH TYPE IVS, THEN OVERLAY WITH 1 1/2" TYPE IVS		
TOPSHAM, VT ROUTE 25	233+37.60	342+77.76	VARIES - SEE LAYOUT SHEETS	1 1/2"	1/2"	COLD PLANE 2", LEVEL WITH TYPE IVS, THEN OVERLAY WITH 1 1/2" TYPE IVS		
ORANGE, VT ROUTE 25	0+00.0	16+31.52	VARIES - SEE LAYOUT SHEETS	1 1/2"	1/2"	COLD PLANE 2", LEVEL WITH TYPE IVS, THEN OVERLAY WITH 1 1/2" TYPE IVS		
ORANGE, U.S. ROUTE 302	319+44	322+03	VARIES - SEE LAYOUT SHEET #40	1 1/2"	1/2"	COLD PLANE 2", LEVEL WITH TYPE IVS, THEN OVERLAY WITH 1 1/2" TYPE IVS		

332+48.16 - 333+48.16 COLD PLANE TRANSITION .5" TO 0" THEN OVERLAY 1.5"
333+48.16 - 356+49.7 OVERLAY 1.5"

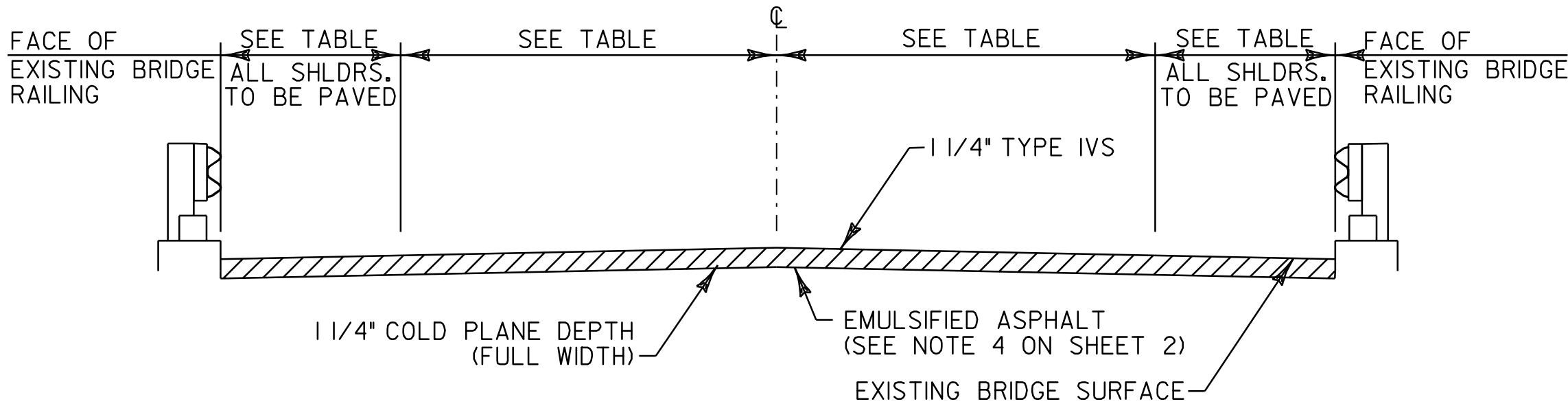
NO TREATMENT ON US 302

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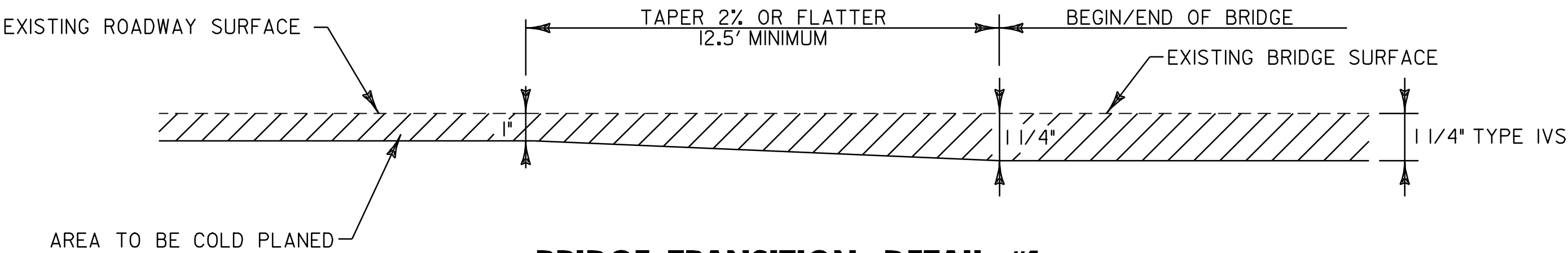
**PROJECT
TYPICAL
SHEET #1**

PROJECT NAME: BRADFORD - ORANGE	
PROJECT NUMBER: SIP 2213(1)	
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178pts01.i	SHEET 3 OF 84



COLD PLANE TYPICAL SECTION - BRIDGE

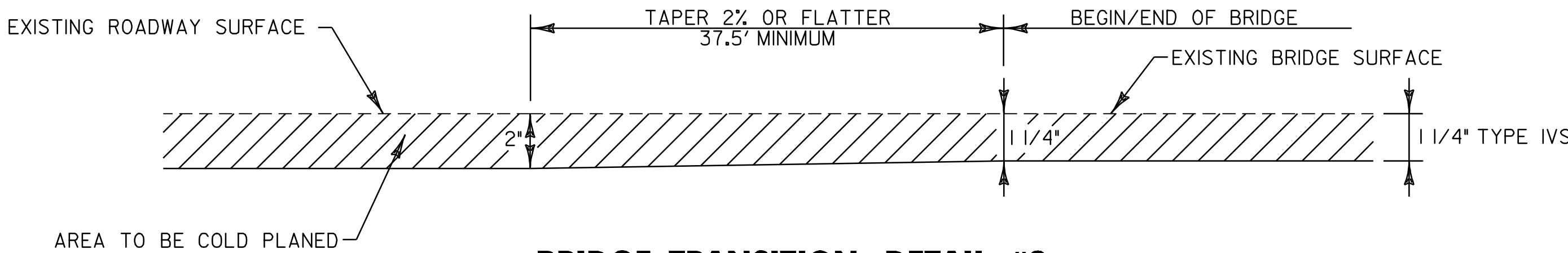
BR#11	CORINTH STA. 120+80.9 TO 120+96.7
BR#12	CORINTH STA. 205+00.5 TO 205+38.5
BR#16	TOPSHAM STA. 128+40.6 TO 129+24.7
BR#17	TOPSHAM STA. 145+07.0 TO 145+91.5
BR#19	TOPSHAM STA. 234+58.1 TO 234+71.6
BR#20	TOPSHAM STA. 271+47.6 TO 271+79.0
BR#21	TOPSHAM STA. 273+84.4 TO 273+92.4
BR#22	TOPSHAM STA. 292+05.3 TO 292+12.8
BR#23	TOPSHAM STA. 300+95.1 TO 301+38.0



BRIDGE TRANSITION DETAIL #1

FULL ROADWAY WIDTH

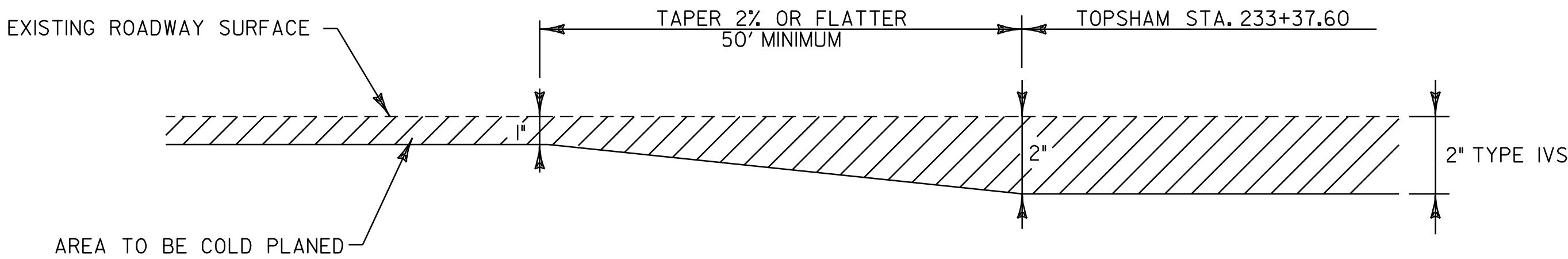
BR #11	CORINTH STA. 120+68.4 TO 120+80.9
BR #11	CORINTH STA. 120+96.7 TO 121+09.2
BR #12	CORINTH STA. 204+88.0 TO 205+00.5
BR #12	CORINTH STA. 205+38.5 TO 205+51.0
BR #16	TOPSHAM STA. 128+28.1 TO 128+40.6
BR #16	TOPSHAM STA. 129+24.7 TO 129+37.2
BR #17	TOPSHAM STA. 144+94.5 TO 145+07.0
BR #17	TOPSHAM STA. 145+91.5 TO 146+04.0



BRIDGE TRANSITION DETAIL #2

FULL ROADWAY WIDTH

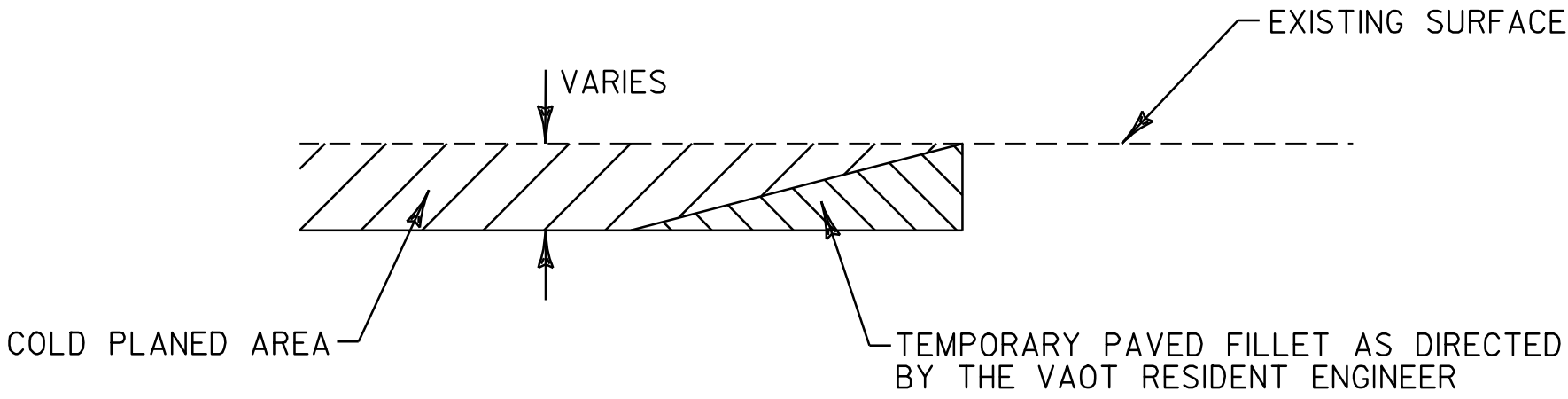
BR #19	TOPSHAM STA. 234+45.6 TO 234+58.1
BR #19	TOPSHAM STA. 234+71.6 TO 234+84.1
BR #20	TOPSHAM STA. 271+35.1 TO 271+47.6
BR #20	TOPSHAM STA. 271+79 TO 271+91.5
BR #21	TOPSHAM STA. 273+71.9 TO 273+84.4
BR #21	TOPSHAM STA. 273+92.4 TO 274+04.9
BR #22	TOPSHAM STA. 291+92.7 TO 292+05.2
BR #22	TOPSHAM STA. 292+12.8 TO 292+25.3
BR #23	TOPSHAM STA. 300+82.6 TO 300+95.1
BR #23	TOPSHAM STA. 301+38.0 TO 301+50.5
BR #24	ORANGE STA. 14+88 +/-



COLD PLANE TRANSITION DETAIL

FULL ROADWAY WIDTH

TOPSHAM STA. 232+87.60 TO 233+37.60



DETAIL AT VERTICAL COLD PLANE JOINTS

NOTE: THIS DETAIL SHALL BE USED AT THE LOCATIONS LISTED BELOW AND AT ALL DRIVES AS DIRECTED BY THE VAOT RESIDENT ENGINEER. PAYMENT SHALL BE INCIDENTAL TO ITEM 490.30.

FULL ROADWAY WIDTH

BRADFORD STA. 332+48.16 (BEGIN PROJECT)
BRADFORD STA. 352+32, LT (TAPLIN HILL RD.)
CORINTH STA. 69+14, RT (VILLAGE RD.)
CORINTH STA. 81+51, LT (FAIRGROUND RD.)
CORINTH STA. 113+62, LT (BROOK RD.)
CORINTH STA. 191+01, LT (LIMLAW RD. EAST)
CORINTH STA. 192+62, LT (LIMLAW RD. WEST)
CORINTH STA. 206+55, RT (BRULEIGH RD.)
TOPSHAM STA. 5+43, RT (WAITS RIVER VALLEY SCHOOL RD.)
TOPSHAM STA. 42+42, RT (WATSON HILL RD.)
TOPSHAM STA. 72+88, LT (PIKE HILL RD.)
TOPSHAM STA. 73+13, RT (GENDRON RD.)
TOPSHAM STA. 143+45, RT (PERRY/WATERMAN RD.)
TOPSHAM STA. 168+02, LT (E. ORANGE RD. EAST)
TOPSHAM STA. 173+03, LT (E. ORANGE RD. WEST)
ORANGE STA. 16+31.52 (END PROJECT)

RURAL AREAS - SEED MIXTURE

% WT	LBS/A	NAME	PUR %	GERM %
37.5	22.5	CREEPING RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85

100 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 VAOT RESIDENT 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 TONS/ACRE, OR AS DIRECTED
BY THE VAOT RESIDENT ENGINEER.

TEMPORARY EROSION MATTING:
TO BE PLACED ON EARTH SLOPES AS DIRECTED BY THE VAOT RESIDENT ENGINEER.

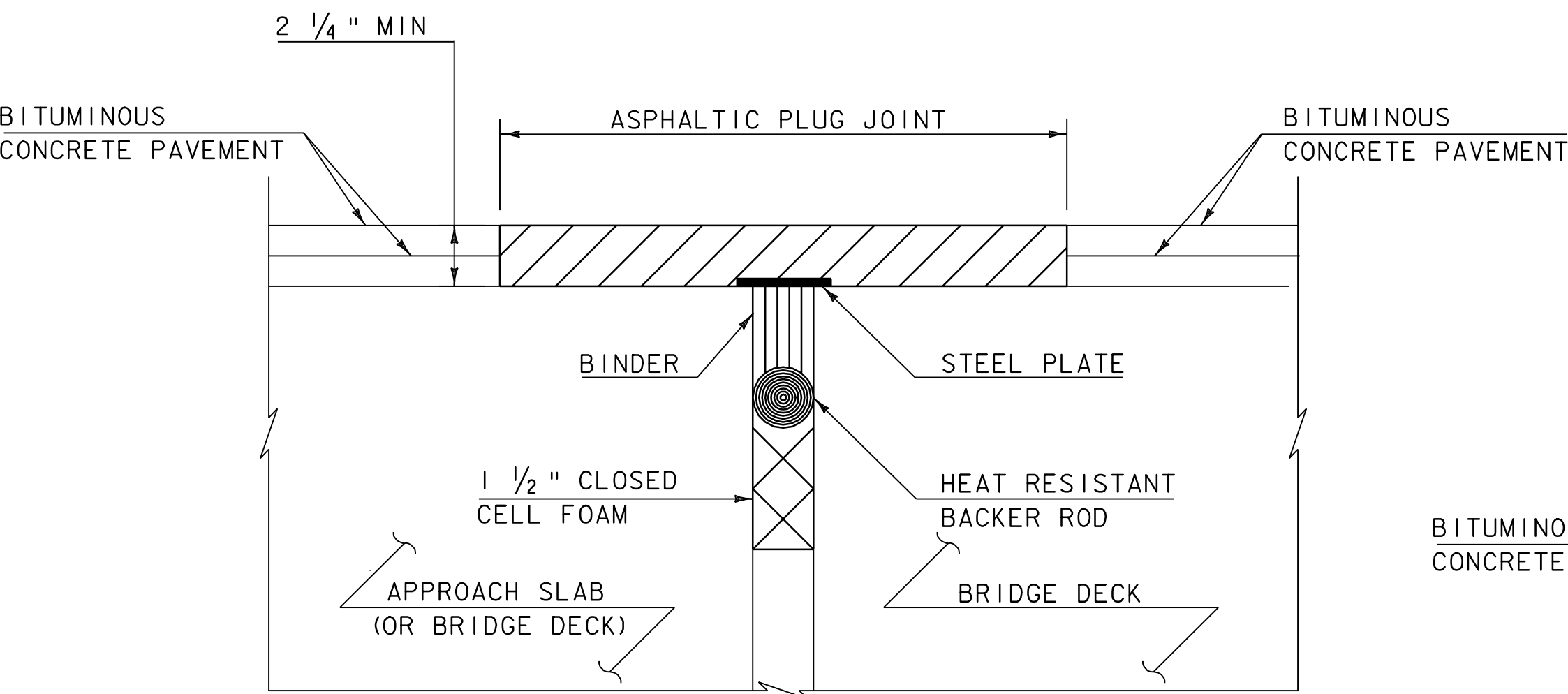
TOPSOIL:
TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY
THE VAOT RESIDENT ENGINEER.

NOT TO SCALE



PROJECT
TYPICAL
SHEET #2

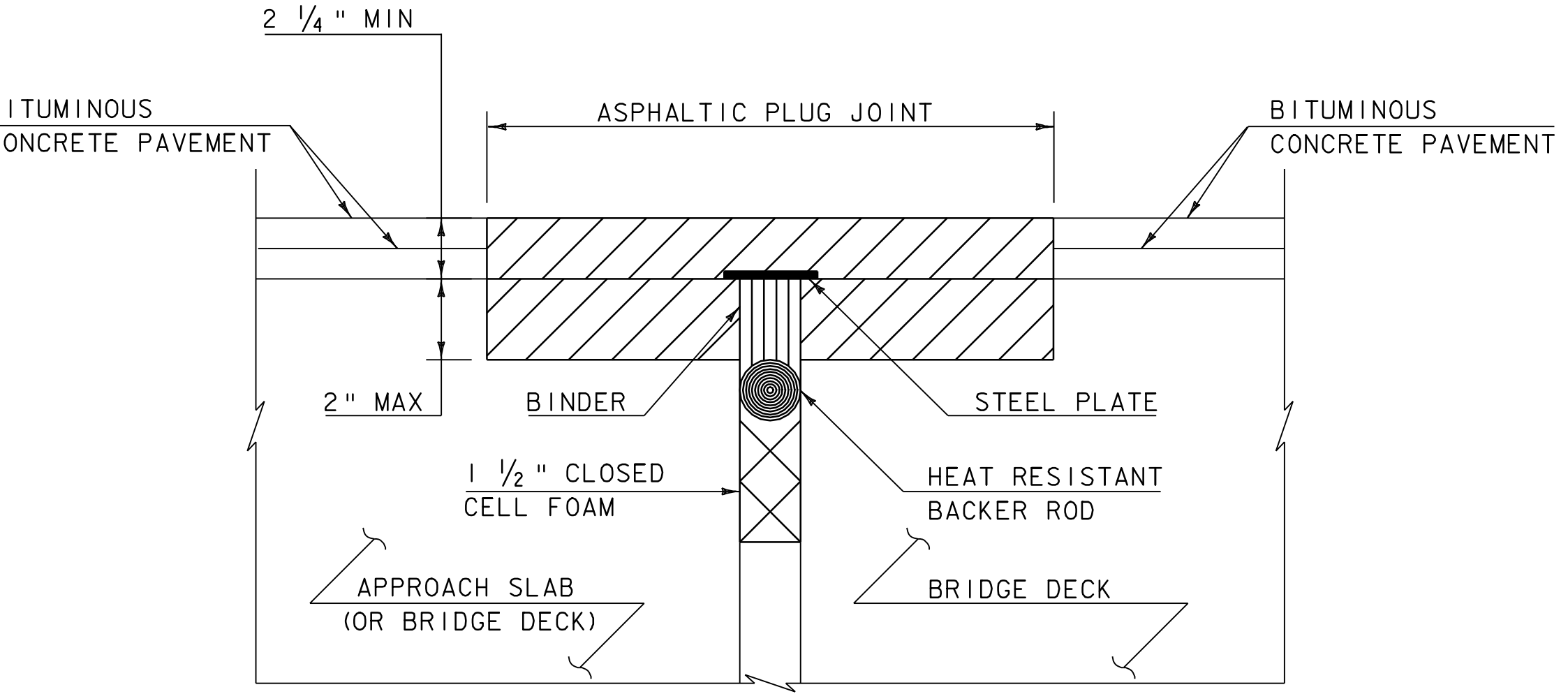
PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178pts02.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	4 OF 84



ASPHALTIC PLUG-TYPE
JOINT DETAIL

(NOT TO SCALE)

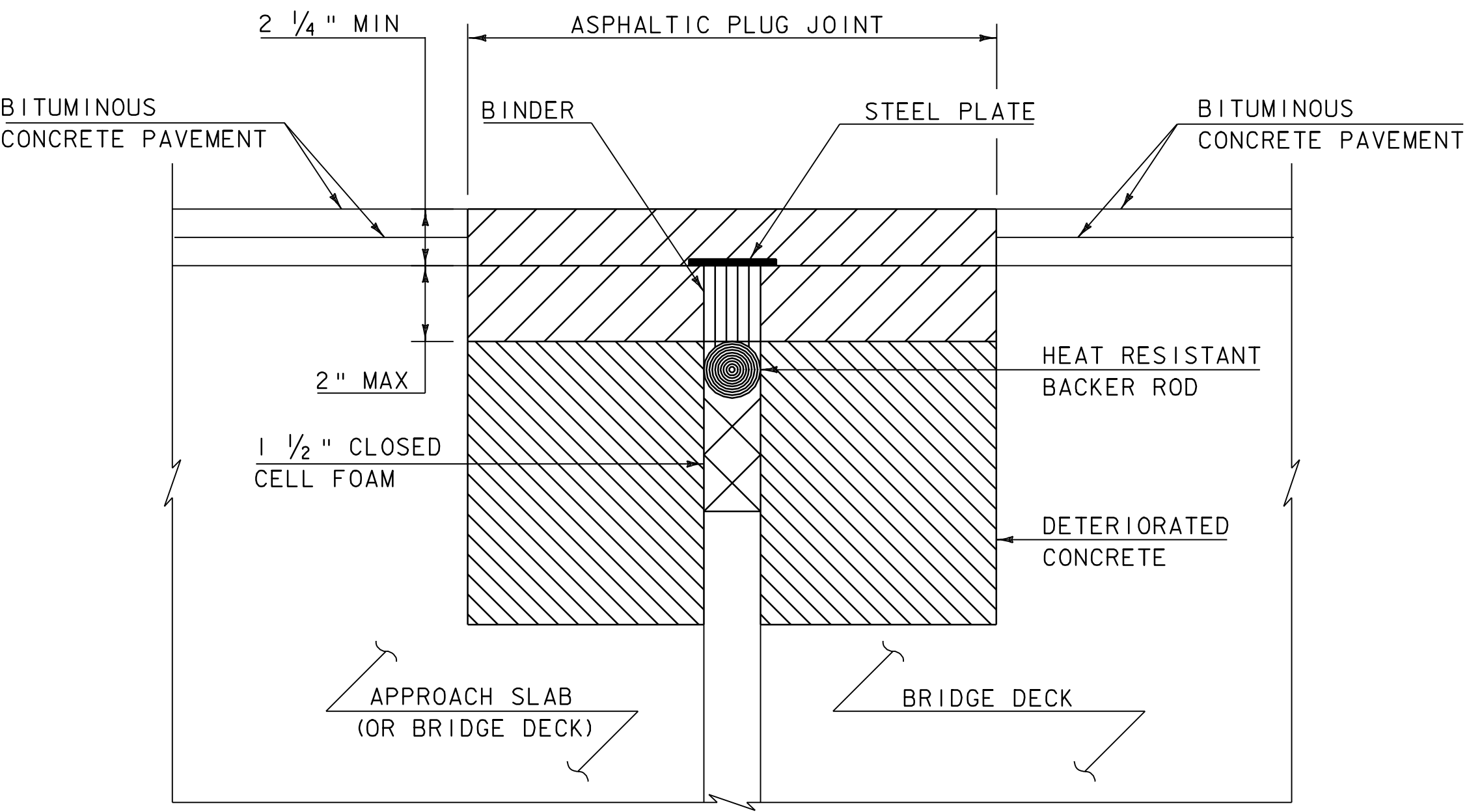
BR 11	U.S. ROUTE 25	CORINTH	STA. 120+80.9	(33 LF)
BR 11	U.S. ROUTE 25	CORINTH	STA. 120+96.7	(33 LF)
BR 12	U.S. ROUTE 25	CORINTH	STA. 205+00.5	(26 LF)
BR 12	U.S. ROUTE 25	CORINTH	STA. 205+38.5	(26 LF)
BR 16	U.S. ROUTE 25	TOPSHAM	STA. 128+40.6	(35 LF)
BR 16	U.S. ROUTE 25	TOPSHAM	STA. 129+24.7	(35 LF)
BR 17	U.S. ROUTE 25	TOPSHAM	STA. 145+07.0	(33 LF)
BR 17	U.S. ROUTE 25	TOPSHAM	STA. 145+91.5	(33 LF)
BR 19	U.S. ROUTE 25	TOPSHAM	STA. 234+58.1	(27 LF)
BR 19	U.S. ROUTE 25	TOPSHAM	STA. 234+71.6	(27 LF)
BR 20	U.S. ROUTE 25	TOPSHAM	STA. 271+47.6	(30 LF)
BR 20	U.S. ROUTE 25	TOPSHAM	STA. 271+79.0	(30 LF)
BR 21	U.S. ROUTE 25	TOPSHAM	STA. 273+84.4	(30 LF)
BR 21	U.S. ROUTE 25	TOPSHAM	STA. 273+92.4	(30 LF)
BR 22	U.S. ROUTE 25	TOPSHAM	STA. 292+05.2	(29 LF)
BR 22	U.S. ROUTE 25	TOPSHAM	STA. 292+12.8	(29 LF)
BR 23	U.S. ROUTE 25	TOPSHAM	STA. 300+95.1	(31LF)
BR 23	U.S. ROUTE 25	TOPSHAM	STA. 301+38.0	(31LF)



ASPHALTIC PLUG-TYPE JOINT DETAIL
REMOVAL OF < 2" DETERIORATED CONCRETE

NOTES: (NOT TO SCALE)

- UPON ENCOUNTERING UP TO 2" AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH THE ASPHALTIC PLUG JOINT MATERIAL AS DIRECTED BY THE RESIDENT ENGINEER.
- REMOVAL OF THE DETERIORATED CONCRETE WILL NOT BE PAID SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10. THE ADDITIONAL PLUG JOINT MATERIAL BELOW THE DESIGN DEPTH TO REPLACE THE DETERIORATED CONCRETE WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10.



ASPHALTIC PLUG-TYPE JOINT DETAIL
REMOVAL OF > 2" DETERIORATED CONCRETE

(NOT TO SCALE)

NOTES:

- UPON ENCOUNTERING GREATER THAN 2" AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE FORMED TO EXISTING ELEVATION.
- REMOVAL OF THE DETERIORATED CONCRETE WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 580.20 "RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE".
- REINFORCING STEEL NOT SHOWN FOR CLARITY.

ASPHALTIC PLUG JOINT NOTES

I. INSTALLATION

- LOCATE THE JOINT CENTRALLY OVER THE DECK OVERLAY EXPANSION GAP OR FIXED JOINT MARKED OUT TO THE MANUFACTURER'S RECOMMENDED WIDTH.
 - REMOVE THE BITUMINOUS CONCRETE PAVEMENT FULL DEPTH AS SHOWN ON THE PLANS. THE PAVEMENT SHALL BE DRY AND SAW CUT TO THE LIMITS REQUIRED TO PLACE THE JOINT. A PNUMATIC HAMMER AND CHISEL MAY BE USED ADJACENT TO THE CURB ONLY WHEN SAW CUTTING IS NOT POSSIBLE.
 - BLAST CLEAN THE JOINT AREA OF DEBRIS, ASPHALT AND SHEET MEMBRANE. THOROUGHLY DRY THE JOINT AREA WITH COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.
 - REPAIR SPALLED AND DEFECTIVE CONCRETE WITH AN APPROVED MATERIAL AS AGREED UPON BY THE ENGINEER.
 - PLACE PROPERLY SIZED HEAT RESISTANT BACKER ROD IN THE MOVEMENT GAP ALLOWING FOR 1" +/- OF BINDER ABOVE THE ROD.
 - HEAT AND PLACE THE BINDER MATERIAL AS RECOMMENDED BY THE MANUFACTURER.
 - PLACE 1/4" THICK BY 8" WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE THE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRESTAMPED HOLES INTO BACKER ROD AND COVER WITH HOT BINDER. THE STEEL PLATES MAY BE OMITTED WHERE THE ENGINEER DETERMINES THAT THE APPROACH SLAB OR BRIDGE DECK WILL PROVIDE INADEQUATE SUPPORT AND WHERE VERTICAL MOVEMENT OF THE PLATES MIGHT OCCUR.
 - HEAT AND MIX THE BINDER MATERIAL AND AGGREGATE AS RECOMMENDED BY THE MANUFACTURER.
 - INSTALLATION OF MATERIAL, COMPACTION, AND TOP COATING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
 - IMMEDIATELY AFTER TOP COATING, CAST AN ANTI-SKID MATERIAL OVER THE JOINT TO REDUCE THE RISK OF TRACKING.
 - ONCE THE JOINT REACHES 82 DEG C (180 DEG F) +/-, WATER MAY BE USED TO EXPEDITE THE COOLING PROCESS.
 - PROTECT JOINT FROM TRAFFIC UNTIL THE MATERIAL HAS COOLED TO 51 DEG C (125 DEG F) +/-.
2. WEATHER LIMITATIONS. (APPLY BINDER MATERIAL ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL OR AS RECOMMENDED BY THE MANUFACTURER):
- THE AMBIENT AIR TEMPERATURE IS AT LEAST 10 DEG C (50 DEG F) AND RISING.
 - THE ROAD SURFACE IS DRY.
 - WEATHER CONDITIONS OR OTHER CONDITIONS ARE FAVORABLE AND ARE EXPECTED TO REMAIN SO FOR THE PERFORMANCE OF SATISFACTORY WORK.

NOT TO SCALE

ASPHALTIC
PLUG JOINT
DETAIL SHEET

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	STP 2213(I)
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178apjds.i	SHEET 5 OF 84



ITEM DETAIL SUMMARY SHEET 1

LOCATION			GUARDRAIL													MISCELLANEOUS				REMARKS		
BEGIN STATION	END STATION	POS.	62I.20	62I.205	62I.2I	62I.50	62I.5I	62I.60	62I.70	62I.7I	62I.76	62I.77	62I.79	62I.80	62I.8I	203.I5	203.30	203.40	60I.09I5			
			S.B. GR. GALV. LF	S.B. GR. GALV. W/ 8 FT POSTS LF	HD S.B. G.R. GALV. LF	MTS, FLARED EA	MTS, TANGENT EA	ANCHOR FOR S.B. RAIL EA	G.R. APP. SECTION GALV. TYPE I EACH	G.R. APP. SECTION GALV. TYPE II EACH	REPLACE G.R. POST ASSEMBLY EACH	REPLACE G.R. BEAM UNIT EACH	ADJUST HEIGHT OF G.R. LF	REMOVAL & DISPOSAL OF GUARDRAIL LF	REMOVAL & DISPOSAL OF GUIDE POSTS EACH	COMMON EXCAVATION CY	EARTH BORROW CY	SHOULDER BERM REMOVAL LF	I8" CPEP LF			
VT ROUTE 25																						
BRADFORD ORANGE																						
332+48	I6+32	LT&RT									55	28	345							QUANTITIES FOR USE AS DIRECTED BY THE VAOT RESIDENT ENGINEER		
BRADFORD																						
336+44	344+83	RT	762.5			2								839			50			INSTALL M.T.S., FLARED @ 336+44 AND 344+44, RT		
345+3I		LT														I.I				ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
347+2I		RT														I.I				ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
362+45	366+20	RT	300			2								3I4			50			INSTALL M.T.S., FLARED @ 362+45 AND 365+82.5, RT		
CORINTH																						
0+I0	2+48	RT																238		RETAIN EXISTING GUARD RAIL		
II+29	I8+79	RT	675			2											50			INSTALL M.T.S., FLARED @ II+29 AND I8+4I.5, RT		
I4+30		RT														I.I				ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
2I+00	25+50	RT	375			2											50			INSTALL M.T.S., FLARED @ 2I+00 AND 25+I2.5, RT		
32+79	4I+80	RT	7I2.5	I I2.5		2								867			50			INSTALL M.T.S., FLARED @ 32+80 AND 4I+42.5, RT		
36+25		RT														I.I				ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
36+45		RT														I.I				ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
47+64	49+89	LT	I87.5			I		2						I I3			25			INSTALL M.T.S., FLARED @ 47+64, LT : SEE VAOT STANDARD SHEET G-I0, PROVIDE 2 ANCHORS AT 49+89, LT		
48+73	5I+35.5	RT	I87.5			2								I79			50			INSTALL M.T.S., FLARED @ 48+73 AND 50+98, RT		
52+I2.5	56+37.5	RT	350			2											50			INSTALL M.T.S., FLARED @ 52+I2.5 AND 56+00, RT		
59+4I	68+37	RT																896		RETAIN EXISTING GUARD RAIL		
67+50		LT														I.I				ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
7I+00		LT														I.I				ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
72+77.5	77+02.5	RT	350			2									23		50		20	INSTALL M.T.S., FLARED @ 72+77.5 AND 76+65, RT; CONSTRUCT DRAINAGE AT M.T.S. AT STA 76+65, RT - SEE GUARD RAIL DETAIL SHEET		
78+00	78+50	RT														9.3				ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
87+I6		LT														I.I				ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
I I9+39	I2I+28	RT	I00		73.25			2						I64						SEE VAOT STANDARD SHEET G-Id, PROVIDE ANCHOR AT I I9+45.25 AND I2I+26.5, RT		
I I9+57.75	I23+70.25	LT	250		82.5	2								I26			50			INSTALL M.T.S., FLARED @ I I9+57.75 AND I23+32.75, LT		
I39+I5		RT														I.I				ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
I49+97.5	I58+35	RT	487.5	3I2.5		I		I									25			INSTALL M.T.S., FLARED @ I49+97.5, RT; SEE VAOT STANDARD SHEET G-I0, PROVIDE ANCHOR AT I58+35, RT; INSTALL TREATED TIMBER CURB I52+75 TO I53+50, RT		
I52+77		RT														I.I				ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
I56+48		RT														I.I				ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
I57+99		RT														I.I				ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
204+00.38	206+30	RT	75		82.5	I		I						I73			25			INSTALL M.T.S., FLARED @ 204+00.38, RT; SEE VAOT STD. SHEET G-ID; PROVIDE ANCHOR AT 206+I9.I3, RT		
204+26	208+38.6	LT	262.5		82.5	I		I						I76			25			SEE VAOT STD. SHEET G-Id; PROVIDE ANCHOR AT 204+32.38, LT; INSTALL M.T.S. FLARED @ 208+0I.I, LT		
SHEET SUBTOTALS:			5075	425	320.75	22		7			55	28	345	295I	23		22.5	550	I I34	20		
																				ITEM DETAIL SUMMARY SHEET #1	PROJECT NAME: BRADFORD - ORANGE	
																					PROJECT NUMBER: S I P 22I3(I I)	
																					FILE NAME: p99bI78.dgn	PLOT DATE: 28-MAY-20I0 I3:4
																					PROJECT LEADER: JLL	DRAWN BY: S I A N I T E C
																				DESIGNED BY: S I A N I T E C	CHECKED BY: JLL	
																				IPARM_FILE: p99bI78Idss0I.I	SHEET 9 OF 84	

ITEM DETAIL SUMMARY SHEET 2

LOCATION			MISCELLANEOUS															REMARKS		
BEGIN STATION	END STATION	POS.	604.40 CHANGE ELEV OF DI, CB OR MH	604.412 REHAB DI, CB, OR MH, CLASS I	604.415 REHAB DI, CB, OR MH, CLASS II	604.418 REHAB DI, CB, OR MH, CLASS III	613.10 STONE FILL, TYPE I	616.35 TREATED TIMBER CURB	616.47 BIT. CONC. GUTTERS AND TRAFFIC ISLANDS	619.17 YIELDING MARKER POSTS	649.31 GEOTEXTILE UNDER STONE FILL	653.20 TEMP. EROSION MATTING	676.10 DELINEATOR WITH STEEL POST	676.12 REMOVAL OF EXISTING DELINEATOR						
			EA	EA	EA	EA	CY	LF	TON	EACH	SY	SY	EACH	EACH						
VT ROUTE 25																				
BRADFORD ORANGE																				
332+48	16+32	LT&RT	I	4	4	4				240								QUANTITIES FOR USE AS DIRECTED BY THE VAOT RESIDENT ENGINEER		
BRADFORD																				
336+44	344+83	RT										50	2	2				INSTALL M.T.S., FLARED @ 336+44 AND 344+44, RT		
345+31		LT					I.I				7.2							ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
347+21		RT					I.I				7.2							ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
362+45	366+20	RT										50	2	2				INSTALL M.T.S., FLARED @ 362+45 AND 365+82.5, RT		
CORINTH																				
0+10	2+48	RT																RETAIN EXISTING GUARD RAIL		
13+12.5	17+37.5	RT										50	2					INSTALL M.T.S., FLARED @ 11+29 AND 18+41.5, RT		
14+30		RT					I.I				7.2							ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
21+62.5	25+50	RT										50	2					INSTALL M.T.S., FLARED @ 21+00 AND 25+12.5, RT		
32+79	41+80	RT										50	2	2				INSTALL M.T.S., FLARED @ 32+80 AND 41+42.5, RT		
36+25		RT					I.I				7.2							ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
36+45		RT					I.I				7.2							ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
47+64	49+89	LT										25	2	2				INSTALL M.T.S., FLARED @ 47+64, LT : SEE VAOT STANDARD SHEET G-10, PROVIDE 2 ANCHORS AT 49+89, LT		
48+73	51+10.5	RT										50	2	2				INSTALL M.T.S., FLARED @ 48+73 AND 50+98, RT		
52+12.5	56+37.5	RT										50	2					INSTALL M.T.S., FLARED @ 52+12.5 AND 56+00, RT		
59+41	68+37	RT																RETAIN EXISTING GUARD RAIL		
67+50		LT					I.I				7.2							ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
71+00		LT					I.I				7.2							ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
72+77.5	77+02.5	RT										50	2					INSTALL M.T.S., FLARED @ 72+77.5 AND 76+65, RT; CONSTRUCT DRAINAGE AT M.T.S. AT STA 76+65, RT - SEE GUARD RAIL DETAIL SHEET		
78+00	78+50	RT					9.3				47							ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
87+16		LT					I.I				7.2							ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
119+39	121+28	RT											2	2				SEE VAOT STANDARD SHEET G-1d, PROVIDE ANCHOR AT 119+45.25 AND 121+26.5, RT		
119+57.75	123+70.25	LT										50	2	2				INSTALL M.T.S., FLARED @ 119+57.75 AND 123+32.75, LT		
139+15		RT					I.I				7.2							ITEMS TO BE USED WITH SLOPE EROSION REPAIR		
147+97.5	158+35	RT						75				25	2					INSTALL M.T.S., FLARED @ 149+97.5, RT; SEE VAOT STANDARD SHEET G-10, PROVIDE ANCHOR AT 158+35, RT; INSTALL TREATED TIMBER CURB 152+75 TO 153+50, RT		
152+77		RT					I.I				7.2									

ITEM DETAIL SUMMARY SHEET 3

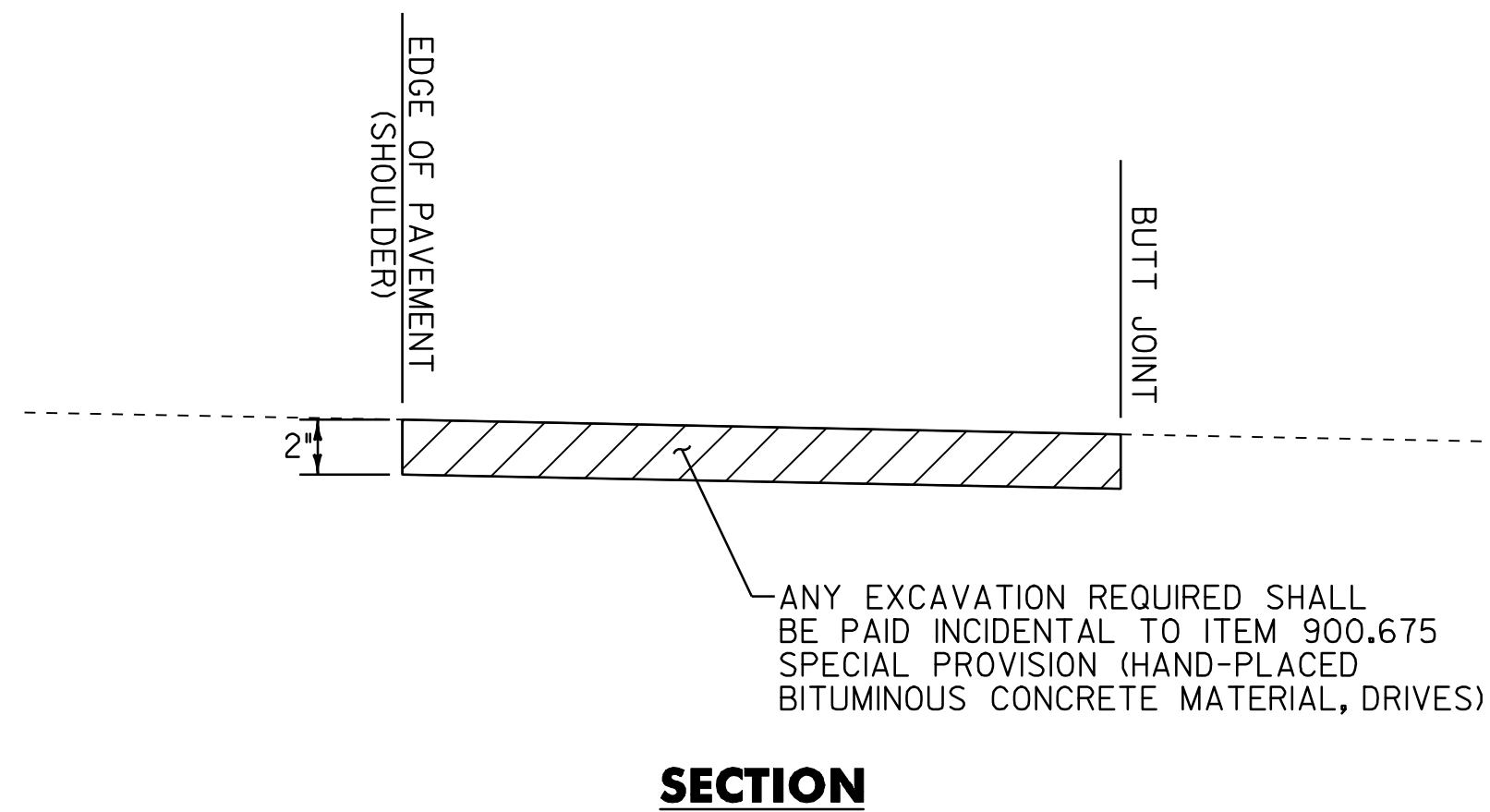
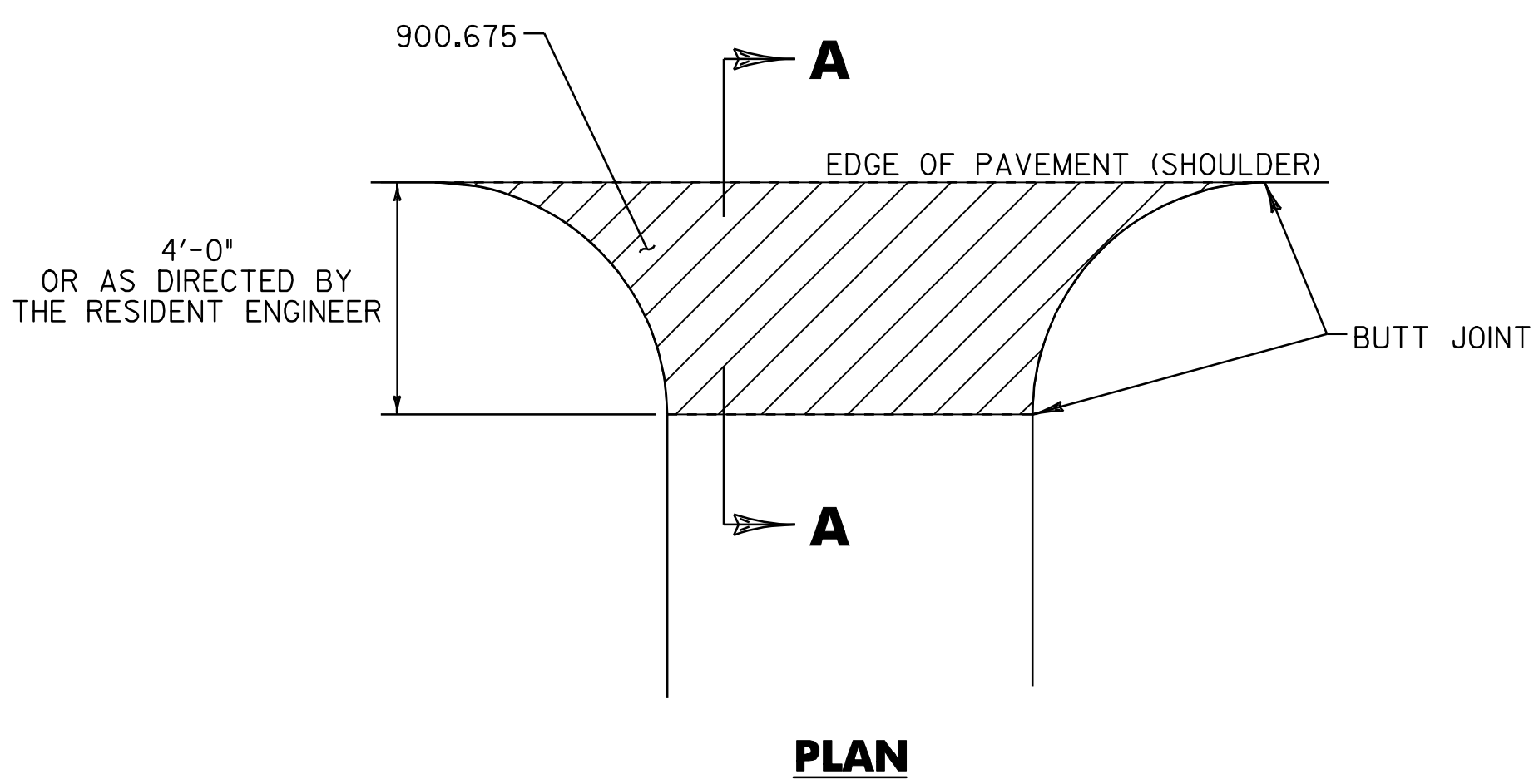
LOCATION			GUARDRAIL													MISCELLANEOUS				REMARKS	
BEGIN STATION	END STATION	POS.	621.20	621.205	621.21	621.50	621.51	621.60	621.70	621.71	621.76	621.77	621.79	621.80	621.81	203.15	203.30	203.40	601.0915		
			S.B. GR. GALV. LF	S.B. GR. GALV. W/ 8 FT POSTS LF	HD S.B. G.R. GALV. LF	MTS, FLARED EA	MTS, TANGENT EA	ANCHOR FOR S.B. RAIL EA	G.R. APP. SECTION GALV. TYPE I EACH	G.R. APP. SECTION GALV. TYPE II EACH	REPLACE G.R. POST ASSEMBLY EACH	REPLACE G.R. BEAM UNIT EACH	ADJUST HEIGHT OF G.R. LF	REMOVAL & DISPOSAL OF GUARDRAIL LF	REMOVAL & DISPOSAL OF GUIDE POSTS EACH	COMMON EXCAVATION CY	EARTH BORROW CY	SHOULDER BERM REMOVAL LF	18" CPEP LF		
VT ROUTE 25 TOPSHAM																					
2+12.5	5+50	LT	262.5			2											50			INSTALL M.T.S., FLARED @ 2+12.5 AND 5+12.5, LT	
16+66.5	21+97	LT	362.5			2								75			50	93		CONNECT NEW STEEL BEAM GUARDRAIL TO EXISTING GUARDRAIL @ 20+66.5, LT INSTALL M.T.S., FLARED @ 16+66.5 AND 21+59.5, LT	
20+82	22+22	RT				2								75			50	65		INSTALL M.T.S., FLARED @ 20+82 AND 21+84.5, RT; CONNECT TO EXISTING GUARDRAIL	
50+85	56+23	LT	190	302.5		2								530			50			INSTALL M.T.S., FLARED @ 50+85 AND 55+85, LT	
51+05	52+42.5	RT	62.5			2								74			50			INSTALL M.T.S., FLARED @ 51+05 AND 52+05, RT	
58+01.5	65+95	LT	87.5	625		2								793			50			INSTALL M.T.S., FLARED @ 58+01.5 AND 65+51.5, LT	
60+06		LT														3.7				ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
85+44		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
87+66		RT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
94+23		RT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
98+18	101+88	LT				2								75			50	295		INSTALL M.T.S., FLARED @ 98+18 AND 101+50.5, LT; CONNECT TO EXISTING GUARDRAIL	
99+56	100+92	RT																136		RETAIN EXISTING GUARDRAIL	
100+96		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
103+34	108+84	LT	475			2								443			50			INSTALL M.T.S., FLARED @ 103+34 AND 108+46.5, LT	
126+62	131+43.5	RT	62.5			2								75			50	344		INSTALL M.T.S., FLARED @ 126+62 AND 131+06, RT; CONNECT NEW GUARDRAIL TO EXISTING GUARDRAIL	
127+46	131+06	LT				2								75			50	285		INSTALL M.T.S., FLARED @ 127+46 AND 130+68.5, LT; CONNECT TO EXISTING GUARDRAIL	
129+20		LT														1.9				CONSTRUCT STONE FILL, TYPE I SLOPE GUTTER	
144+42	145+05.5	LT				1				1				63.5			25			INSTALL M.T.S., FLARED @ 144+55.5, LT; CONNECT G.R. APP. SECTION, GALV. TYPE II TO EXIST. BRIDGE RAIL ON BR 17	
144+56	145+05.5	RT	25					1		1				49.5						SEE VAOT STANDARD SHEET G-1d, PROVIDE ANCHOR @ 144+68, RT; CONNECT G.R. APP. SECTION, GALV. TYPE II TO EXIST. BRIDGE RAIL ON BR 17	
145+92	147+55	RT	112.5			1				1				77			25			INSTALL M.T.S., FLARED @ 147+17.5, RT; CONNECT G.R. APP. SECTION, GALV. TYPE II TO EXIST. BRIDGE RAIL ON BR 17	
145+92	147+30	LT	50			1			1					77			25			INSTALL M.T.S., FLARED @ 146+92.5, LT; CONNECT G.R. APP. SECTION, GALV. TYPE I TO EXIST. BRIDGE RAIL ON BR 17	
148+50	154+50	LT	525			2											50			INSTALL M.T.S., FLARED @ 148+50 AND 154+12.5, LT	
159+50	164+50	RT	425			2											50			INSTALL M.T.S., FLARED @ 159+50 AND 164+12.5, RT	
171+62.5	176+37.5	RT	400			2											50			INSTALL M.T.S., FLARED @ 171+62.5 AND 176+00, RT	
182+75	196+87.5	RT	1337.5			2											50			INSTALL M.T.S., FLARED @ 182+75 AND 196+50, RT	
183+76	188+26	LT	375			2											50			INSTALL M.T.S., FLARED @ 183+76 AND 187+88.5, LT	
193+40	194+59	RT														22				ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
230+98.75	235+30	RT	50	225	73.75	2								389			50			INSTALL M.T.S., FLARED @ 230+98.75 AND 234+92.5, RT	
232+93.75	237+50	LT	300		73.75	2								100			50			INSTALL M.T.S., FLARED @ 232+93.75 AND 237+12.5, LT	
234+21		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
SHEET SUBTOTALS:			5102.5	1152.5	147.5	37		1	1	3				2971			33.1	925	1218		

ITEM DETAIL SUMMARY SHEET 4

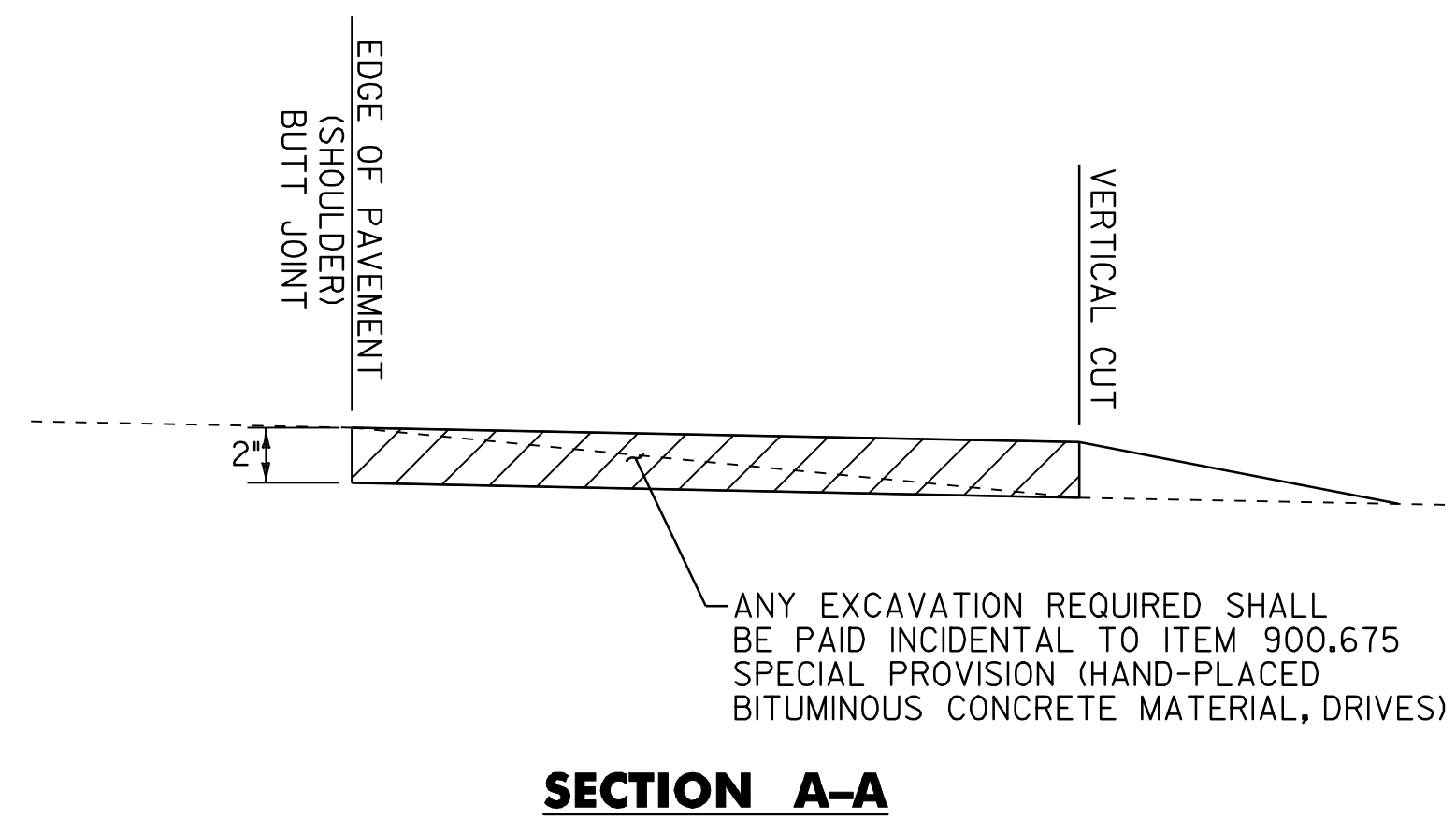
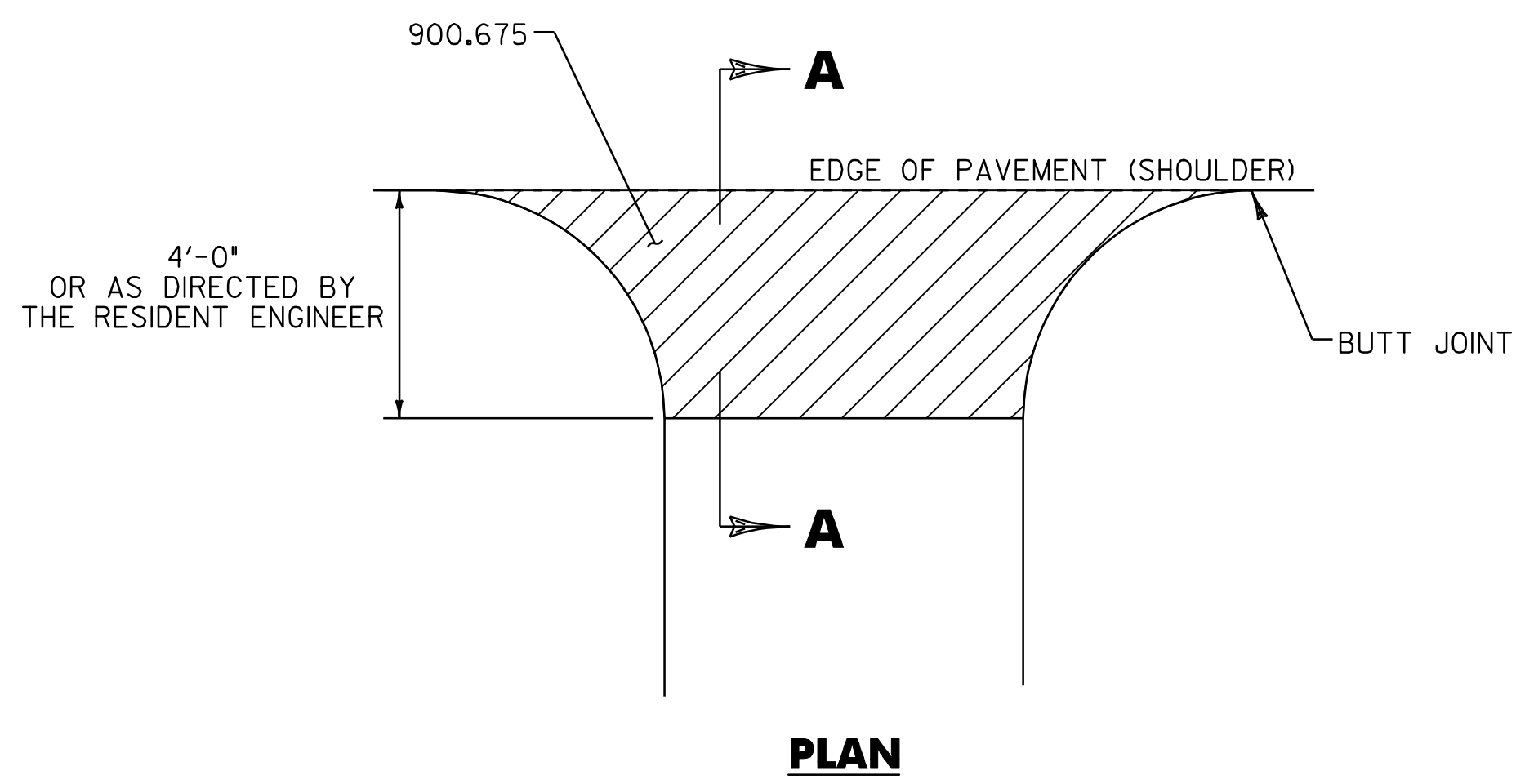
LOCATION			MISCELLANEOUS															REMARKS		
BEGIN STATION	END STATION	POS.	604.40	604.412	604.415	604.418	613.10	616.35	616.47	619.17	649.31	653.20	676.10	676.12						
			CHANGE ELEV OF DI, CB OR MH	REHAB DI, CB, OR MH, CLASS I	REHAB DI, CB, OR MH, CLASS II	REHAB DI, CB, OR MH, CLASS III	STONE FILL, TYPE I	TREATED TIMBER CURB	BIT. CONC. GUTTERS AND TRAFFIC ISLANDS	YIELDING MARKER POSTS	GEOTEXTILE UNDER STONE FILL	TEMP. EROSION MATTING	DELINEATOR WITH STEEL POST	REMOVAL OF EXISTING DELINEATOR						
			EA	EA	EA	EA	CY	LF	TON	EACH	SY	SY	EACH	EACH						
VT ROUTE 25 TOPSHAM																				
2+12.5	5+50	LT										50	2						INSTALL M.T.S., FLARED @ 2+12.5 AND 5+12.5, LT	
16+66.5	21+97	LT										50	2	2					CONNECT NEW STEEL BEAM GUARDRAIL TO EXISTING GUARDRAIL @ 20+66.5, LT INSTALL M.T.S., FLARED @ 16+66.5 AND 21+59.5, LT	
20+82	22+22	RT										50	2	2					INSTALL M.T.S., FLARED @ 20+82 AND 21+84.5, RT; CONNECT TO EXISTING GUARDRAIL	
50+85	56+23	LT										50	2	2					INSTALL M.T.S., FLARED @ 50+85 AND 55+85, LT	
51+05	52+42.5	RT										50	2	2					INSTALL M.T.S., FLARED @ 51+05 AND 52+05, RT	
58+01.5	65+95	LT										50	2	2					INSTALL M.T.S., FLARED @ 58+01.5 AND 65+51.5, LT	
60+06		LT					3.7				20								ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
85+44		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
87+66		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
94+23		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
98+18	101+88	LT									50	2	2						INSTALL M.T.S., FLARED @ 98+18 AND 101+50.5, LT; CONNECT TO EXISTING GUARDRAIL	
99+56	100+92	RT																	RETAIN EXISTING GUARD RAIL	
100+96		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
103+34	108+84	LT									50	2							INSTALL M.T.S., FLARED @ 103+34 AND 108+46.5, LT	
126+62	130+81	RT									50	2	2						INSTALL M.T.S., FLARED @ 126+62 AND 131+06, RT; CONNECT NEW GUEARDRAIL TO EXISTING GUARDRAIL	
127+46	131+06	LT									50	2	2						INSTALL M.T.S., FLARED @ 127+46 AND 130+68.5, LT; CONNECT TO EXISTING GUARDRAIL	
29+20		LT					1.9				8.3								CONSTRUCT STONE FILL, TYPE I SLOPE GUTTER	
144+42	145+05.5	LT									25	1	1						INSTALL M.T.S., FLARED @ 144+55.5, LT; CONNECT G.R. APP. SECTION, GALV. TYPE II TO EXIST. BRIDGE RAIL ON BR 17	
144+56	145+05.5	RT											1	1					SEE VAOT STANDARD SHEET G-1d, PROVIDE ANCHOR @ 144+68, RT; CONNECT G.R. APP. SECTION, GALV. TYPE II TO EXIST. BRIDGE RAIL ON BR 17	
145+92	146+80	RT									25	1	1						INSTALL M.T.S., FLARED @ 147+17.5, RT; CONNECT G.R. APP. SECTION, GALV. TYPE II TO EXIST. BRIDGE RAIL ON BR 17	
145+92	147+29.5	LT									25	1							INSTALL M.T.S., FLARED @ 146+92.5, LT; CONNECT G.R. APP. SECTION, GALV. TYPE I TO EXIST. BRIDGE RAIL ON BR 17	
148+50	154+50	LT									50	2							INSTALL M.T.S., FLARED @ 148+50 AND 154+12.5, LT	
159+50	164+50	RT									50	2							INSTALL M.T.S., FLARED @ 159+50 AND 164+12.5, RT	
171.62	176+37.5	RT									50	2							INSTALL M.T.S., FLARED @ 171+62.5 AND 176+00, RT	
184+87.5	186+12.5	RT									50	2							INSTALL M.T.S., FLARED @ 182+75 AND 196+50, RT	
184+87.5	186+12.5	LT									50	2							INSTALL M.T.S., FLARED @ 183+76 AND 187+88.5, LT	
193+40	194+59	RT					22				109								ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
230+98.75	235+30	RT									50	2	2						INSTALL M.T.S., FLARED @ 230+98.75 AND 234+92.5, RT	
232+93.75	237+50	LT									50	2	2						INSTALL M.T.S., FLARED @ 232+93.75 AND 237+12.5, LT	
234+21		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR	
SHEET SUBTOTALS:							33.1				173.3	925	38	23						

ITEM DETAIL SUMMARY SHEET 5																				
LOCATION			GUARDRAIL												MISCELLANEOUS				REMARKS	
BEGIN STATION	END STATION	POS.	621.20	621.205	621.21	621.50	621.51	621.60	621.70	621.71	621.76	621.77	621.79	621.80	621.81	203.15	203.30	203.40		601.0915
			S.B. GR. GALV.	S.B. GR. GALV. W/ 8 FT POSTS	HD S.B. G.R. GALV.	MTS, FLARED	MTS, TANGENT	ANCHOR FOR S.B. RAIL	G.R. APP. SECTION GALV. TYPE I	G.R. APP. SECTION GALV. TYPE II	REPLACE G.R. POST ASSEMBLY	REPLACE G.R. BEAM UNIT	ADJUST HEIGHT OF G.R.	REMOVAL & DISPOSAL OF GUARDRAIL	REMOVAL & DISPOSAL OF GUIDE POSTS	COMMON EXCAVATION	EARTH BORROW	SHOULDER BERM REMOVAL		18" CPEP
			LF	LF	LF	EA	EA	EA	EACH	EACH	EACH	EACH	LF	LF	EACH	CY	CY	LF		LF
VT ROUTE 25 TOPSHAM																				
240+70	240+86	LT														0.4				CONSTRUCT BITUMINOUS CONCRETE GUTTER (4'-6" WIDE)
242+11	245+86	RT														9.3				CONSTRUCT BITUMINOUS CONCRETE GUTTER (4' WIDE)
259+88	261+96	RT														3.9				CONSTRUCT BITUMINOUS CONCRETE GUTTER (3' WIDE)
260+65	261+65	RT	12.5			I	I							91			50			INSTALL M.T.S., FLARED @ 260+65, RT; INSTALL M.T.S., TANGENT @ 261+15, RT
261+16	261+23	RT														1.3				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
262+82	269+60	RT																678		RETAIN EXISTING GUARD RAIL
267+27		RT														1.9				CONSTRUCT STONE FILL, TYPE I SLOPE GUTTER
268+83		RT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
269+82	271+94	RT	137.5		73.25			2						152.3						WRAP GUARD RAIL TO MEET EXISTING RAIL @ MILL ROAD; SEE VAOT STANDARD SHEET G-1d, PROVIDE ANCHOR @ 269+82 AND 271+94, RT
270+85		RT														1.9				CONSTRUCT STONE FILL, TYPE I SLOPE GUTTER
271+23	272+97.3	LT	37.5		71.25	I		I						83.3			25			INSTALL ANCHOR FOR HD S.B. RAIL @ 271+23, LT; INSTALL M.T.S., FLARED @ 272+60.13, LT
273+55	294+58	LT	1658.1	329.4	73.75	I		I						2081.3			25			INSTALL ANCHOR FOR S.B. RAIL @ 273+55, LT; INSTALL M.T.S., FLARED @ 294+16.13, LT
273+70	275+09.88	RT	50		50	I		I						37.3			25		20	INSTALL ANCHOR FOR S.B. RAIL @ 273+70, RT; INSTALL M.T.S., FLARED @ 274+72.38, RT CONSTRUCT DRAINAGE AT M.T.S. STA. 274+72.38, SEE GUARDRAIL DETAIL SHEET
280+29		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
280+82		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
280+91		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
298+25	302+03	LT	262.5		65	I		I						316			25			INSTALL M.T.S., FLARED @ 298+27; INSTALL ANCHOR FOR S.B. RAIL @ 302+03, LT
300+14	310+49	RT	600	337.5	65			2						984						INSTALL ANCHOR FOR S.B. RAIL @ 300+14 AND 310+43.5, RT
302+07		RT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
310+83	319+97.5	RT	912.5					2						845						INSTALL ANCHOR FOR S.B. RAIL @ 310+85 AND 319+97.5, RT
318+34		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
334+49		LT														1.1				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
ORANGE																				
0+92.5	9+17.5	RT	750			2								397			50			INSTALL M.T.S., FLARED @ 0+92.5 AND 8+80, RT
5+83	7+01	LT														21.9				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
7+90	8+60	LT														13				ITEMS TO BE USED WITH SLOPE EROSION REPAIR
13+84	RTE 302	RT																169		RETAIN EXISTING GUARD RAIL
14+39	RTE 302	LT																250		RETAIN EXISTING GUARD RAIL
SHEET 1 SUBTOTALS:			5075	425	320.75	22	-	7	-	-	55	28	345	2951	23	22.5	550	1134	20	
SHEET 3 SUBTOTALS:			5102.5	1152.5	147.5	37	-	1	1	3	-	-	-	2971	-	33.1	925	1218	-	
SHEET 5 SUBTOTALS:			4410.6	666.9	398.25	7	1	10	-	-	-	-	-	4987.2	-	61.3	200	1097	20	
ROUNDINGS:			11.9	5.6	8.5	-	-	-	-	-	-	-	-	-	-	3.1	-	1	-	
TOTALS:			14600	2250	875	66	1	18	1	3	55	28	345	10909	23	120	1675	3450	40	
ITEM DETAIL SUMMARY SHEET #5																	PROJECT NAME: BRADFORD - ORANGE			
																	PROJECT NUMBER: SIP 2213(1)			
																	FILE NAME: p99b178.dgn			PLOT DATE: 28-MAY-2010 13:4
																	DESIGNED BY: STANTEC			CHECKED BY: JLL
																	IPARM FILE: p99b178idss05.i			SHEET 13 OF 84

ITEM DETAIL SUMMARY SHEET 6																									
LOCATION			MISCELLANEOUS															REMARKS							
BEGIN STATION	END STATION	POS.	604.40	604.412	604.415	604.418	613.10	616.35	616.47	619.17	649.31	653.20	676.10	676.12											
			CHANGE ELEV OF DI, CB OR MH	REHAB DI, CB, OR MH, CLASS I	REHAB DI, CB, OR MH, CLASS II	REHAB DI, CB, OR MH, CLASS III	STONE FILL, TYPE I	TREATED TIMBER CURB	BIT. CONC. GUTTERS AND TRAFFIC ISLANDS	YIELDING MARKER POSTS	GEOTEXTILE UNDER STONE FILL	TEMP. EROSION MATTING	DELINEATOR WITH STEEL POST	REMOVAL OF EXISTING DELINEATOR											
			EA	EA	EA	EA	CY	LF	TON	EACH	SY	SY	EACH	EACH											
VT ROUTE 25 TOPSHAM																									
240+70	240+86	LT							0.8										CONSTRUCT BITUMINOUS CONCRETE GUTTER (4'-6" WIDE)						
242+11	245+86	RT							18.6										CONSTRUCT BITUMINOUS CONCRETE GUTTER (4' WIDE)						
259+88	261+96	RT							7.8										CONSTRUCT BITUMINOUS CONCRETE GUTTER (3' WIDE)						
260+65	261+65	RT										50	2	2					INSTALL M.T.S., FLARED @ 260+65, RT; INSTALL M.T.S., TANGENT @ 261+15, RT						
261+16	261+23	RT					1.3				8								ITEMS TO BE USED WITH SLOPE EROSION REPAIR						
262+82	269+60	RT																	RETAIN EXISTING GUARD RAIL						
267+27		RT					1.9				8.3								CONSTRUCT STONE FILL, TYPE I SLOPE GUTTER						
268+83		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR						
269+82	271+94	RT											2	2					WRAP GUARD RAIL TO MEET EXISTING RAIL @ MILL ROAD; SEE VAOT STANDARD SHEET G-1d, PROVIDE ANCHOR @ 269+82 AND 271+94, RT						
270+85		RT					1.9				8.3								CONSTRUCT STONE FILL, TYPE I SLOPE GUTTER						
271+23	272+97.6	LT										25	2	2					INSTALL ANCHOR FOR HD S.B. RAIL @ 271+23, LT; INSTALL M.T.S., FLARED @ 272+60.13, LT						
273+55	294+58	LT										25	2	2					INSTALL ANCHOR FOR S.B. RAIL @ 273+55, LT; INSTALL M.T.S., FLARED @ 294+16.13, LT						
273+70	275+09.88	RT										25	2	2					INSTALL ANCHOR FOR S.B. RAIL @ 273+70, RT; INSTALL M.T.S., FLARED @ 274+72.38, RT						
280+29		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR						
280+82		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR						
280+91		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR						
298+25	302+03	LT										25	2	2					INSTALL M.T.S., FLARED @ 298+27; INSTALL ANCHOR FOR S.B. RAIL @ 302+03, LT						
300+14	310+49	RT						270					2	2					INSTALL ANCHOR FOR S.B. RAIL @ 300+14 AND 310+43.5, RT						
302+07		RT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR						
310+83	319+97.5	RT																	INSTALL ANCHOR FOR S.B. RAIL @ 310+85 AND 319+97.5, RT						
318+34		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR						
334+49		LT					1.1				7.2								ITEMS TO BE USED WITH SLOPE EROSION REPAIR						
ORANGE																									
1+30	7+80	RT										50	2	2					INSTALL M.T.S., FLARED @ 0+92.5 AND 8+80, RT						
5+83	7+01	LT					21.9				108								ITEMS TO BE USED WITH SLOPE EROSION REPAIR						
7+90	8+60	LT					13				65								ITEMS TO BE USED WITH SLOPE EROSION REPAIR						
13+84	RTE 302	RT																	RETAIN EXISTING GUARD RAIL						
14+39	RTE 302	LT																	RETAIN EXISTING GUARD RAIL						
SHEET 2 SUBTOTALS:			1	4	4	4	22.5	75	-	240	133.4	550	28	18											
SHEET 4 SUBTOTALS:			-	-	-	-	33.1	-	-	-	173.3	925	38	23											
SHEET 6 SUBTOTALS:			-	-	-	-	47.7	270	27.2	-	248	200	16	16											
ROUNDINGS:			-	-	-	-		5	0.8	-	-	-	-	-											
TOTALS:			1	4	4	4	103.3	350	28	240	554.7	1675	82	57											
ITEM DETAIL SUMMARY SHEET #6														PROJECT NAME: BRADFORD - ORANGE											
														PROJECT NUMBER: SIP 2213(1)											
														FILE NAME: p99b178.dgn						PLOT DATE: 28-MAY-2010 13:4					
														PROJECT LEADER: JLL						DRAWN BY: SIANTEC					
														DESIGNED BY: SIANTEC						CHECKED BY: JLL					
														IPARM FILE: p99b178idss06.i						SHEET 14 OF 84					



HANDWORK DETAILS FOR PAVED DRIVES

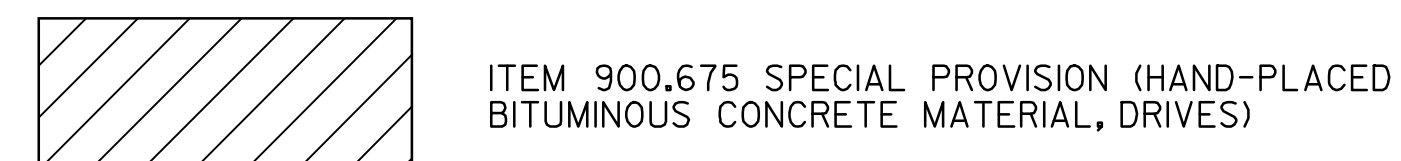


HANDWORK DETAILS FOR GRAVEL DRIVES

NOTES:

1. PAVING LIFT SHALL BE A MINIMUM OF 1 1/2" AND A MAXIMUM OF 2".
2. THE COST OF PROVIDING AND PLACING SUBBASE MATERIAL, CLEANING EXISTING PAVED SURFACES, INCLUDING POWER EQUIPMENT, AND FOR FILLING JOINTS, CRACKS AND HOLES WILL NOT BE PAID DIRECTLY BUT WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).
3. EXCAVATION NEEDED TO ACHIEVE PROPER DRIVE SLOPES WILL NOT BE PAID DIRECTLY BUT WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).

LEGEND



NOT TO SCALE



**DRIVE
DETAIL
SHEET #1**

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	STP 2213(I)
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178ds01.i	SHEET 15 OF 84

STATION	POSITION	ITEM 900.675 QUANTITY (SY)
STP 2213(I)		
VT ROUTE 25		
BRADFORD		
337+43	LT	13
340+01	RT	25
344+54	LT	30
346+95	LT	20
349+02	RT	16
355+48	RT	5
360+95	RT	33
361+86	LT	17
363+90	LT	62
366+00	LT	65
370+53	RT	13
CORINTH		
0+59	LT	8
2+16	LT	22
3+21	RT	25
3+96	LT	13
12+64	LT	22
19+04	LT	16
25+70	RT	19
32+43	RT	22
38+74	LT	23
48+47	RT	17
50+01	LT	10
69+08	RT	48
71+25	RT	9
79+95	RT	24
79+96	LT	26
83+40	RT	179
96+15	RT	8
97+39	RT	10
98+98	LT	11
100+61	LT	10
111+04	LT	23
111+71	RT	11
112+50	LT	40
112+86	RT	12
113+38	RT	19
113+92	RT	19
115+37	LT	65
119+18	LT	26
119+20	RT	16
120+34	RT	5
SUBTOTAL		1057

STATION	POSITION	ITEM 900.675 QUANTITY (SY)
STP 2213(I)		
VT ROUTE 25		
CORINTH (CONT.)		
123+94	LT	22
125+24	LT	17
133+79	RT	17
134+41	LT	38
135+27	RT	107
139+17	LT	13
140+08	RT	9
143+30	LT	11
144+54	LT	13
145+88	LT	13
147+83	RT	13
150+86	LT	16
157+73	LT	12
158+68	RT	23
159+24	RT	13
162+15	RT	8
169+01	LT	13
169+37	RT	55
173+11	LT	19
173+91	LT	23
177+38	RT	11
178+93	LT	24
182+38	RT	18
182+45	LT	36
184+68	RT	11
185+80	RT	12
189+83	RT	8
191+81	RT	16
195+19	RT	12
201+95	RT	10
202+20	LT	21
203+69	RT	13
204+12	LT	12
206+50	RT	17
TOPSHAM		
0+85	LT	9
5+43	RT	38
11+22	RT	26
13+21	RT	16
16+27	RT	52
20+63	RT	17
22+34	RT	11
SUBTOTAL		845

STATION	POSITION	ITEM 900.675 QUANTITY (SY)
STP 2213(I)		
VT ROUTE 25		
TOPSHAM (CONT.)		
26+12	RT	12
26+23	LT	12
27+28	RT	16
32+71	LT	14
33+93	RT	12
41+14	RT	13
43+21	LT	12
49+89	LT	66
49+95	RT	32
56+66	RT	16
66+09	RT	20
66+17	LT	8
68+40	RT	12
69+96	LT	15
70+91	RT	13
71+92	LT	17
72+53	LT	13
73+16	RT	16
76+09	LT	114
76+39	RT	9
78+43	LT	38
79+82	LT	6
80+46	RT	18
82+91	RT	7
88+64	RT	8
89+42	RT	7
90+99	LT	5
92+08	RT	10
92+27	LT	20
93+44	RT	8
98+38	RT	10
99+34	RT	7
102+84	LT	11
103+49	RT	13
109+05	LT	11
111+44	LT	28
111+69	RT	14
114+47	RT	8
116+28	RT	16
117+95	RT	10
119+17	RT	12
122+62	LT	18
SUBTOTAL		727

STATION	POSITION	ITEM 900.675 QUANTITY (SY)
STP 2213(I)		
VT ROUTE 25		
TOPSHAM (CONT.)		
122+71	RT	27
126+31	RT	7
127+26	LT	12
131+30	LT	21
133+79	LT	11
135+19	LT	24
136+24	LT	23
136+68	RT	7
137+90	LT	25
144+23	LT	19
144+36	RT	15
147+72	LT	17
148+59	RT	7
152+69	RT	4
154+11	RT	12
154+67	RT	13
157+33	RT	13
161+73	LT	12
165+73	LT	23
171+40	LT	10
175+05	LT	18
176+95	RT	10
178+85	RT	11
179+94	RT	6
180+51	LT	6
181+91	RT	18
198+37	LT	7
203+13	RT	8
204+38	RT	9
204+57	LT	8
208+70	RT	9
209+76	LT	6
210+28	RT	11
216+85	LT	9
218+77	LT	8
221+39	LT	11
222+35	LT	16
224+61	LT	9
225+26	LT	12
228+77	LT	11
232+41	LT	11
235+45	RT	7
SUBTOTAL		523

STATION	POSITION	ITEM 900.675 QUANTITY (SY)
STP 2213(I)		
VT ROUTE 25		
TOPSHAM (CONT.)		
236+17	RT	5
238+67	LT	12
239+00	RT	9
239+56	RT	9
240+46	LT	6
240+47	RT	6
240+92	RT	12
241+70	LT	14
249+24	LT	18
249+63	RT	13
250+62	LT	19
252+59	RT	149
255+50	RT	10
257+44	RT	26
258+50	RT	8
259+45	LT	25
260+99	RT	5
261+79	RT	8
262+41	LT	9
264+99	LT	12
267+27	LT	8
269+28	LT	12
270+27	LT	20
272+79	RT	14
273+39	LT	10
279+84	RT	17
289+93	RT	24
317+83	LT	13
321+06	LT	14
327+09	LT	22
334+01	LT	20
334+12	RT	12
334+99	LT	14
336+52	RT	12
336+69	LT	12
342+66	LT	8
ORANGE		
2+85	LT	10
5+17	LT	10
7+14	LT	11
10+88	LT	18
SUBTOTAL		656
COLUMN 1		1057
COLUMN 2		845
COLUMN 3		727
COLUMN 4		523
COLUMN 5		656
SUBTOTAL		3808
ROUNDING		42
TOTAL		3850

NOT TO SCALE



DRIVE
DETAIL
SHEET #2

PROJECT NAME:	BRADFORD - ORANGE		
PROJECT NUMBER:	STP 2213(I)		
FILE NAME:	p99b178.dgn	PLOT DATE:	28-MAY-2010 13:4
PROJECT LEADER:	JLL	DRAWN BY:	SIANTEC
DESIGNED BY:	SIANTEC	CHECKED BY:	JLL
IPARM FILE:	p99b178ds02.i	SHEET	16 OF 84

NOTE: FOR DRIVE DETAILS SEE DRIVE DETAIL SHEET 1

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 336+81.5 TO 338+50, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 336+44 TO 336+81.5, RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 336+44 TO 338+50, RT

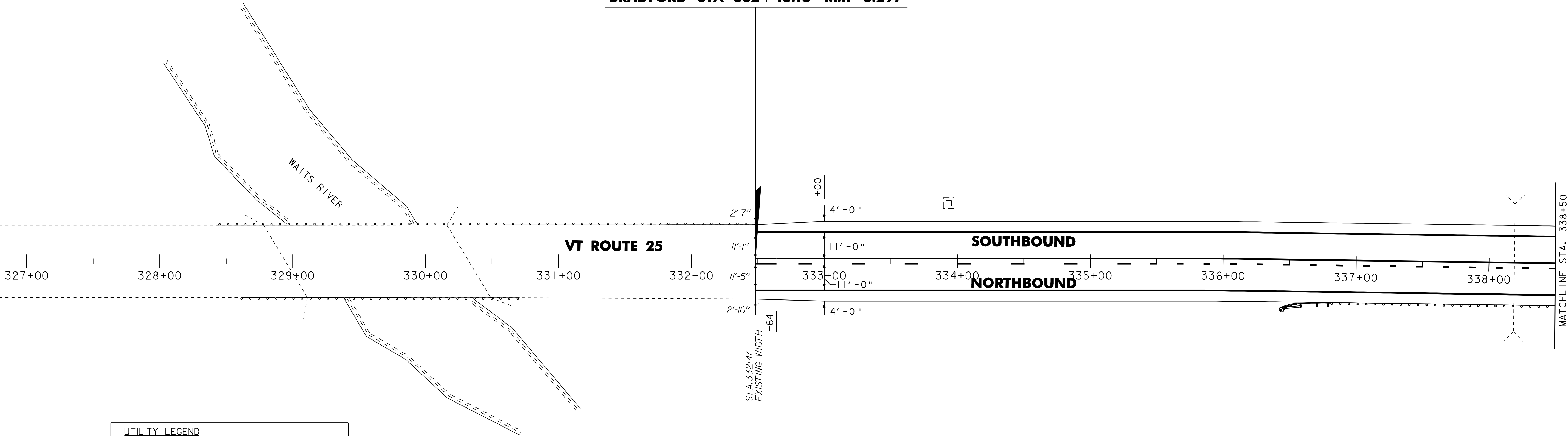
646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 332+48 TO 338+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 332+48 TO 332+64, SOLID LT & RT
STA. 332+64 TO 338+50, SOLID LT, DASHED RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 332+48 TO 338+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 332+48 TO 332+64, SOLID LT & RT
STA. 332+64 TO 338+50, SOLID LT, DASHED RT

BEGIN STP 2213(1) VT ROUTE 25
BRADFORD STA 332+48.16=MM 6.297



UTILITY LEGEND

- EXISTING HYDRANT
- EXISTING DI
- EXISTING MANHOLE
- EXISTING TELEPHONE MANHOLE
- EXISTING ELECTRIC MANHOLE
- EXISTING SEWER MANHOLE
- EXISTING WATER SHUTOFF
- EXISTING GAS SHUTOFF
- EXISTING MAILBOX

SIGN LEGEND

- NEW
- REMOVE
- REMOVE & SALVAGE
- SALVAGE SIGN
- RETAIN
- BACK TO BACK

NOTE:
ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.

NOT TO SCALE

PROJECT
LAYOUT
SHEET #1

PROJECT NAME: BRADFORD - ORANGE
PROJECT NUMBER: STP 2213(1)

FILE NAME: p99b178.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p99b178101.i
PLOT DATE: 28-MAY-2010 13:4
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 18 OF 84



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 338+50 TO 344+44, RT
56.5

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 344+44 TO 344+81.5, RT
344+56.5 344+94

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 338+50 TO 344+83, RT

646.20
646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC
STA. 338+50 TO 349+50, SOLID LT & RT

646.21
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC
STA. 338+50 TO 339+24, SOLID LT & DASHED RT
STA. 339+24 TO 342+14, DASHED C
STA. 342+14 TO 349+50, DASHED LT, SOLID RT

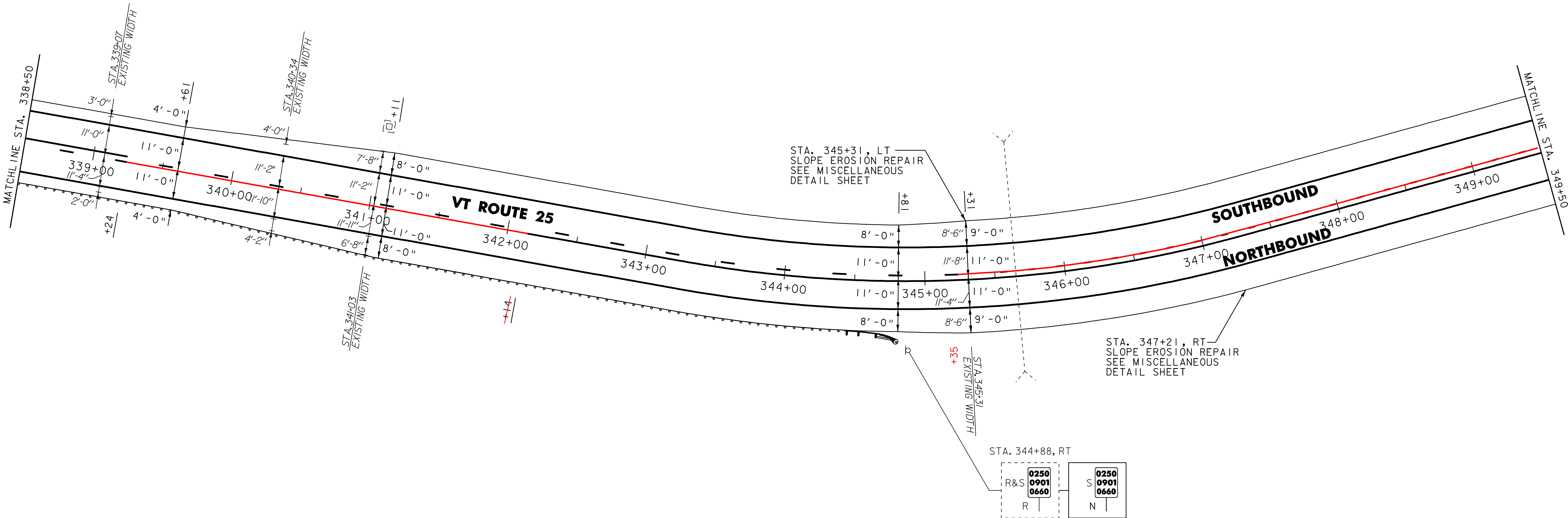
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 338+50 TO 349+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 338+50 TO 339+24, SOLID LT & DASHED RT
STA. 339+24 TO 342+14, DASHED C LT & SOLID RT
STA. 342+14 TO 349+50, DASHED LT, SOLID RT
345+20 345+20 SOLID

675.50 REMOVING SIGNS
AS SHOWN - I

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - I

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/ 8' POSTS
STA 338+81.5 TO 343+81.5 RT (225')



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT
LAYOUT
SHEET #2



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	SIANTEC
IPARM FILE:	p99b178IO2.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	SIANTEC
CHECKED BY:	JLL
SHEET	19 OF 84

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 349+50 TO 360+50, SOLID LT & RT
(ALL LINES WILL INCLUDE EDGE LINE BREAKS OR RADII
AT SIDE ROADS)
STA. 352+32, DOUBLE SOLID LT (TAPLIN HILL RD)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 349+50 TO 349+54, DASHED LT, SOLID RT
STA. 349+54 TO 360+50, SOLID LT & RT
(ALL LINES WILL INCLUDE @ BREAKS AT SIDE ROADS)
STA. 352+32, DOUBLE SOLID LT (TAPLIN HILL RD)

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 349+50 TO 360+50, SOLID LT & RT
(ALL LINES WILL INCLUDE EDGELINE BREAKS OR RADII
AT SIDE ROADS)
STA. 352+32, DOUBLE SOLID LT (TAPLIN HILL RD)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 349+50 TO 349+54, DASHED LT, SOLID RT
STA. 349+54 TO 360+50, SOLID LT & RT
(ALL LINES WILL INCLUDE @ BREAKS AT SIDE ROADS)
STA. 352+32, DOUBLE SOLID LT (TAPLIN HILL RD)

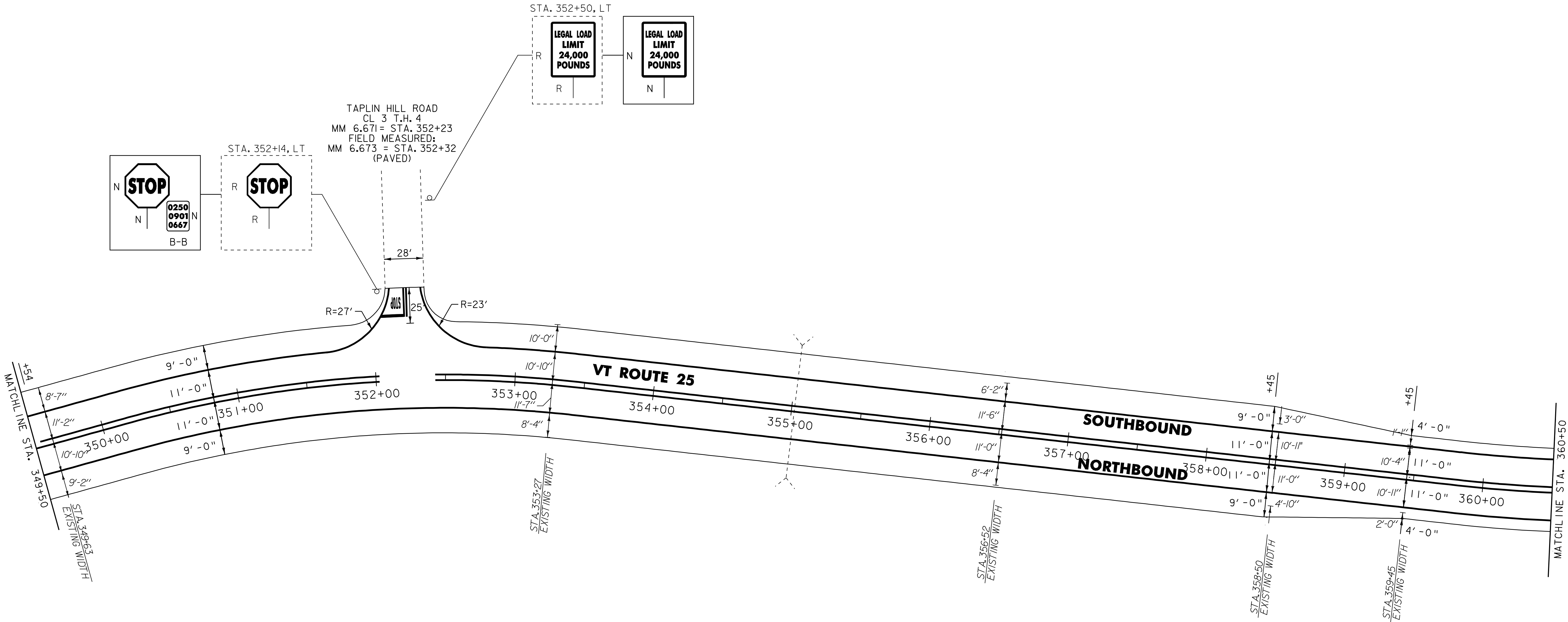
646.26
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 352+32, LT (TAPLIN HILL RD)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 352+32, LT - "STOP"

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 352+32, LT (TAPLIN HILL RD)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
STA. 352+32, LT - "STOP"

675.50 REMOVING SIGNS
AS SHOWN - 2



NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT
LAYOUT
SHEET #3

PROJECT NAME: BRADFORD - ORANGE
PROJECT NUMBER: STP 2213(1)

FILE NAME: p99b178.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p99b178103.i
PLOT DATE: 28-MAY-2010 13:4
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 20 OF 84



621.205
~~621.20~~ STEEL BEAM GUARDRAIL, GALVANIZED W/ 8' POSTS
BRADFORD STA. 362+82.5 TO 365+82.5, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
BRADFORD STA. 362+45 TO 362+82.5, RT
BRADFORD STA. 365+82.5 TO 366+20, RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
BRADFORD STA. 362+93 TO 366+07, RT

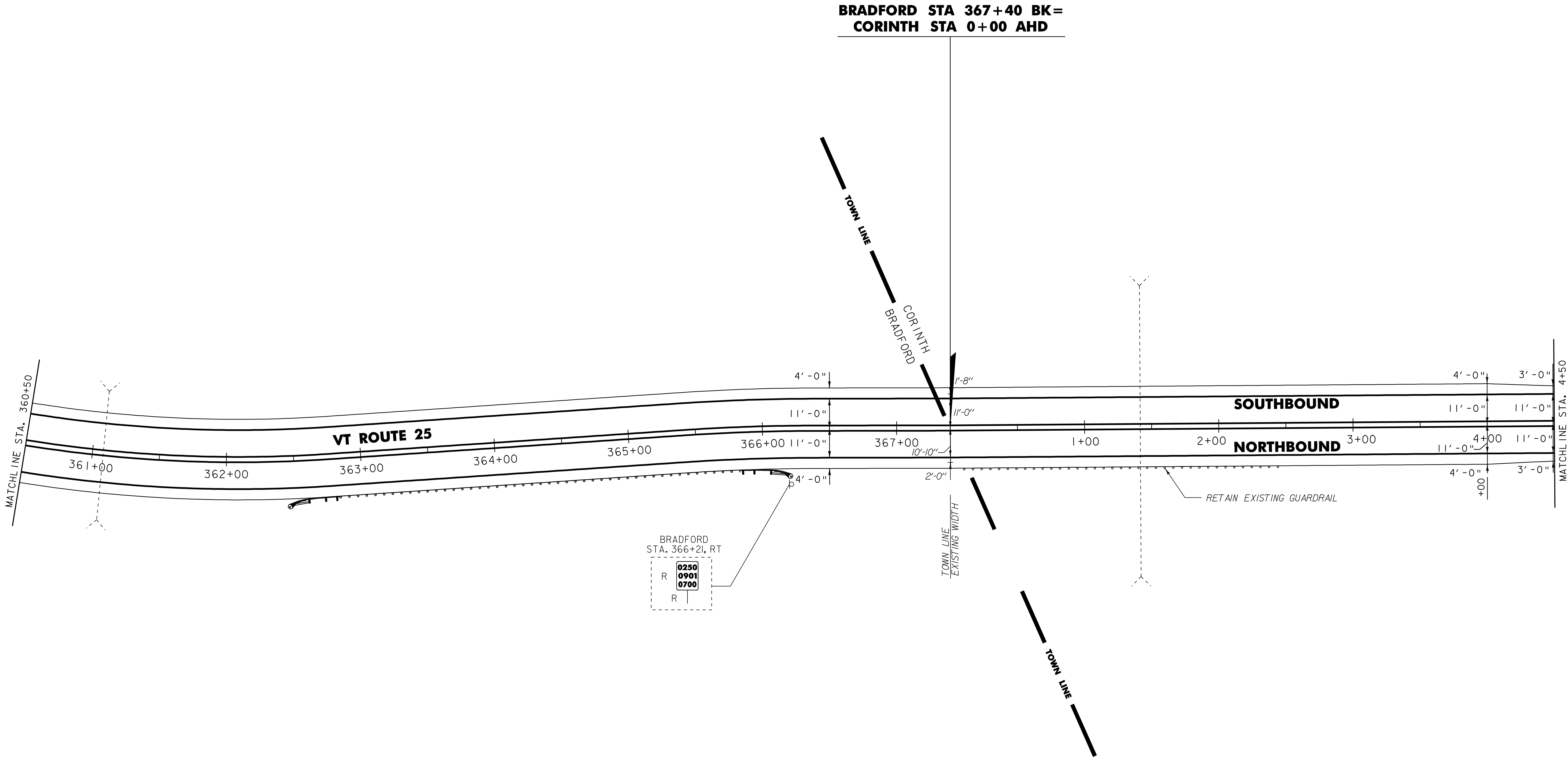
646.20
~~646.402~~ DURABLE 4 INCH WHITE LINE, THERMOPLASTIC
BRADFORD STA. 360+50 TO CORINTH STA. 4+50, SOLID LT & RT

646.21
~~646.412~~ DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC
BRADFORD STA. 360+50 TO CORINTH STA. 4+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
BRADFORD STA. 360+50 TO CORINTH STA. 4+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
BRADFORD STA. 360+50 TO CORINTH STA. 4+50, SOLID LT & RT

675.50 REMOVING SIGNS
AS SHOWN - I



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE



PROJECT
LAYOUT
SHEET #4

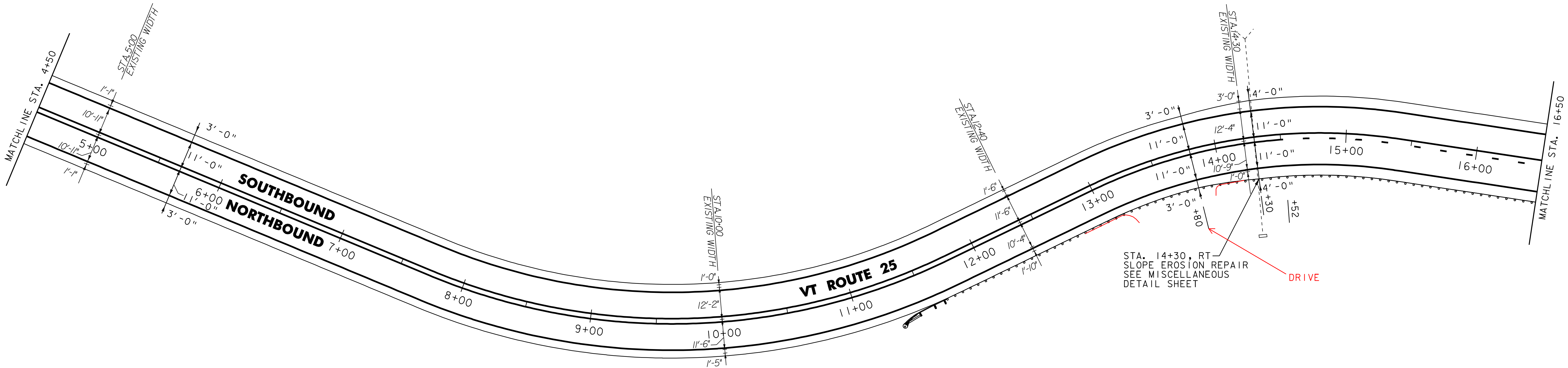
PROJECT NAME: BRADFORD - ORANGE	
PROJECT NUMBER: S1P 2213(1)	
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178104.i	SHEET 21 OF 84

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 11+66.5 TO 16+50, RT
14+16.5 TO 16+50 RT
621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 11+29 TO 11+66.5, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 4+50 TO 16+50, SOLID LT & RT
646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 4+50 TO 14+52, SOLID LT & RT
STA. 14+52 to 16+50, SOLID LT, DASHED RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 4+50 TO 16+50, SOLID LT & RT
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 4+50 TO 14+52, SOLID LT & RT
STA. 14+52 to 16+50, SOLID LT, DASHED RT

~~621.60 ANCHOR FOR STEEL BEAM GUARDRAIL~~
STA 13+06, RT
STA 14+16.5, RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

**PROJECT
LAYOUT
SHEET #5**



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178105.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	22 OF 84

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 16+50 TO 18+41.5, RT
STA. 21+37.5 TO 25+12.5, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 18+41.5 TO 18+79, RT
STA. 21+00 TO 21+37.5, RT
STA. 25+12.5 TO 25+50, RT

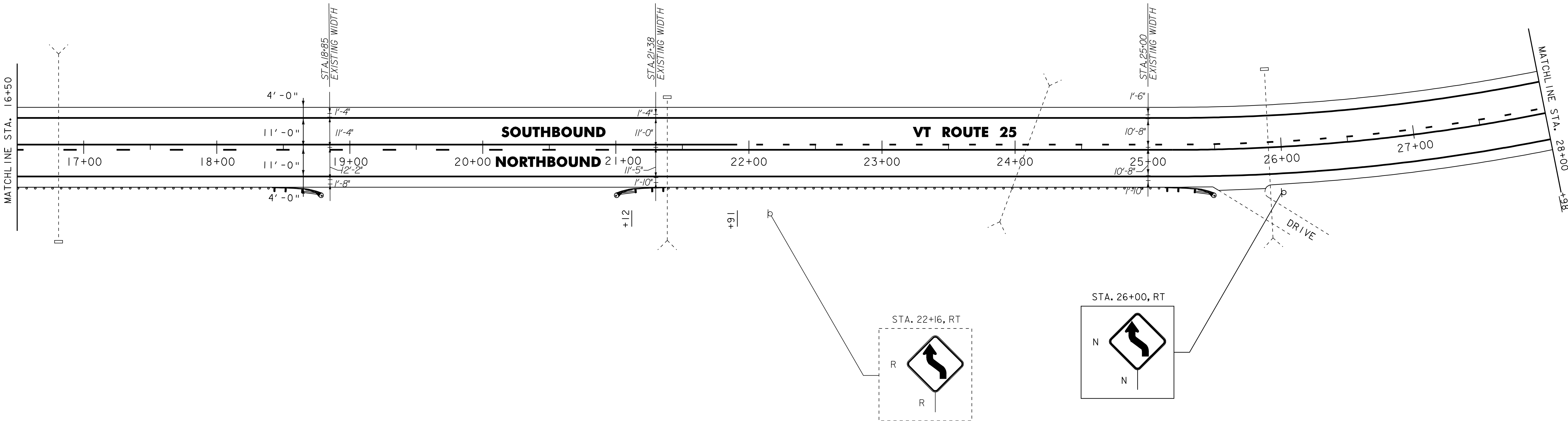
646.20
~~646.402 DURABLE~~ 4 INCH WHITE LINE, THERMOPLASTIC
STA. 16+50 TO 28+00, SOLID LT & RT

646.21
~~646.412 DURABLE~~ 4 INCH YELLOW LINE, THERMOPLASTIC
STA. 16+50 TO 21+12, SOLID LT, DASHED RT
STA. 21+12 TO 21+91, SOLID LT & RT
STA. 21+91 TO 27+98, DASHED LT, SOLID RT
STA. 27+98 TO 28+00, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 16+50 TO 28+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 16+50 TO 21+12, SOLID LT, DASHED RT
STA. 21+12 TO 21+91, SOLID LT & RT
STA. 21+91 TO 27+98, DASHED LT, SOLID RT
STA. 27+98 TO 28+00, SOLID LT & RT

675.50 REMOVING SIGNS
AS SHOWN - 1



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT
LAYOUT
SHEET #6



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178106.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	23 OF 84

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 33+17.5 TO ~~35+30~~, RT 40+00
~~STA. 36+42.5 TO 40+00, RT~~

~~621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS~~
~~STA. 35+30 TO 36+42.5, RT~~

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 32+80 TO 33+17.5, RT

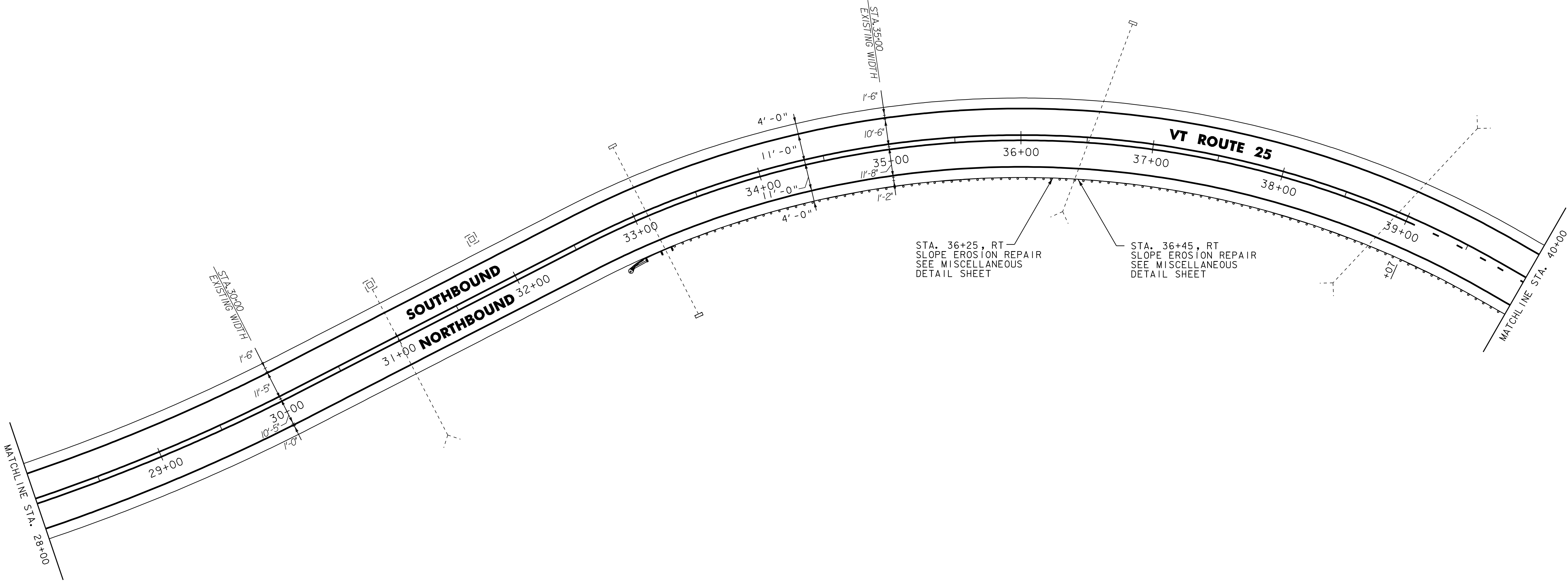
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 32+79 TO 40+00, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 28+00 TO 40+00, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 28+00 TO 39+07, SOLID LT & RT
STA. 39+07 TO 40+00, SOLID LT, DASHED RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 28+00 TO 40+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 28+00 TO 39+07, SOLID LT & RT
STA. 39+07 TO 40+00, SOLID LT, DASHED RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

**PROJECT
LAYOUT
SHEET #7**



PROJECT NAME: <u>BRADFORD - ORANGE</u>	
PROJECT NUMBER: <u>STP 2213(1)</u>	
FILE NAME: <u>p99b178.dgn</u>	PLOT DATE: <u>28-MAY-2010 13:4</u>
PROJECT LEADER: <u>JLL</u>	DRAWN BY: <u>SIANTEC</u>
DESIGNED BY: <u>SIANTEC</u>	CHECKED BY: <u>JLL</u>
IPARM FILE: <u>p99b178107.i</u>	SHEET <u>24</u> OF <u>84</u>

STA. 40+00 TO 41+42.5, RT
STA. 48+01.5 TO 49+89, LT
STA. 49+10.5 TO 50+98, RT 51+50
~~(LAST 2 SECTIONS WILL BE 16'-
RAD II WITH 2 ANCHORS)~~

~~STA. 41+42.5 TO 41+80, RT~~
~~STA. 47+64 TO 48+01.5, LT~~
~~STA. 48+73 TO 49+10.5, RT~~
~~STA. 50+98 TO 51+35.5, RT~~

STA. 49+89, LT ~~(2 EACH)~~

STA. 40+00 TO 41+46, RT
STA. 48+73 TO 50+52, RT
STA. 48+76 TO 49+89, LT

~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 40+00 TO 51+50, SOLID LT & RT

~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 40+00 TO 45+94, SOLID LT, DASHED RT
STA. 45+94 TO 51+22, DASHED C
STA. 51+22 TO 51+50, DASHED LT, SOLID RT

STA. 40+00 TO 51+50, SOLID LT & RT

STA. 40+00 TO 45+94, SOLID LT, DASHED RT
STA. 45+94 TO 51+22, DASHED C
STA. 51+22 TO 51+50, DASHED LT, SOLID RT



STA. ~~52+50~~ TO 56+00, RT
51+50

~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 51+50 TO 63+00, SOLID LT & RT

STA. 51+50 TO 63+00, SOLID LT & RT

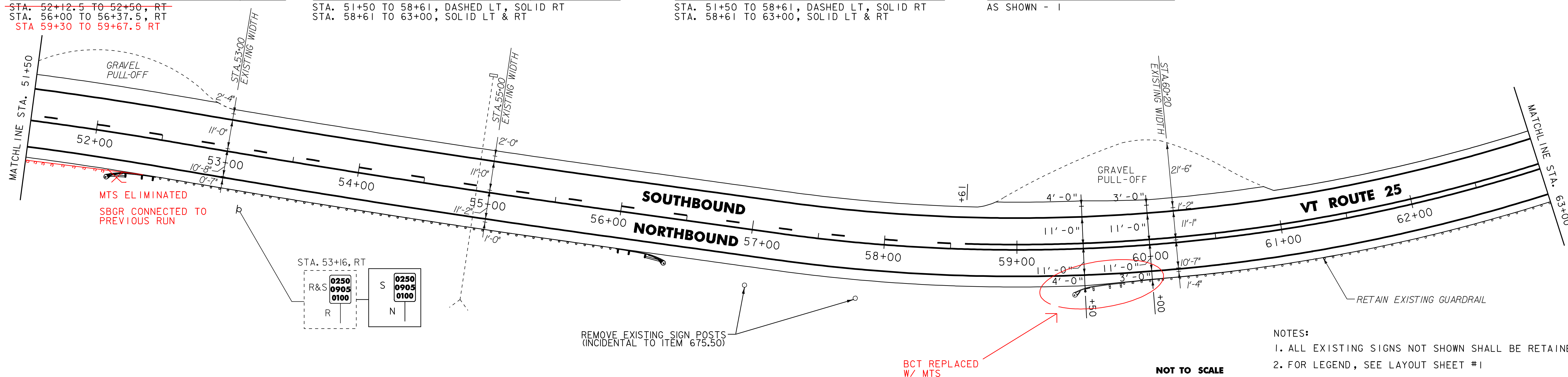
AS SHOWN - 1

STA. 52+12.5 TO 52+50, RT
STA. 56+00 TO 56+37.5, RT
STA 59+30 TO 59+67.5 RT

~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 51+50 TO 58+61, DASHED LT, SOLID RT
STA. 58+61 TO 63+00, SOLID LT & RT

STA. 51+50 TO 58+61, DASHED LT, SOLID RT
STA. 58+61 TO 63+00, SOLID LT & RT

AS SHOWN - 1



1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #8

PROJECT NUMBER: STP 2213(1)

PLOT DATE: 28-MAY-2010 13:

DRAWN BY: STANTEC

DESIGNED BY: STANTEC
IPARM FILE: p99b178lO8.i

CHECKED BY: JLL
SHEET 25 OF 84



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 73+15 TO 74+50, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 72+77.5 TO 73+15,RT
STA 67+87.5 - 68+25 RT

621.81 REMOVAL AND DISPOSAL OF GUIDE POSTS
STA. 73+17 TO 74+50, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 63+00 TO 74+50, SOLID LT & RT
STA. 69+14, DOUBLE SOLID RT (T.H. I)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 63+00 TO 74+50, SOLID LT & RT
STA. 69+14, DOUBLE SOLID RT (T.H. I)

646.26
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 69+14, RT (T.H. I)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 69+14, RT - "STOP"

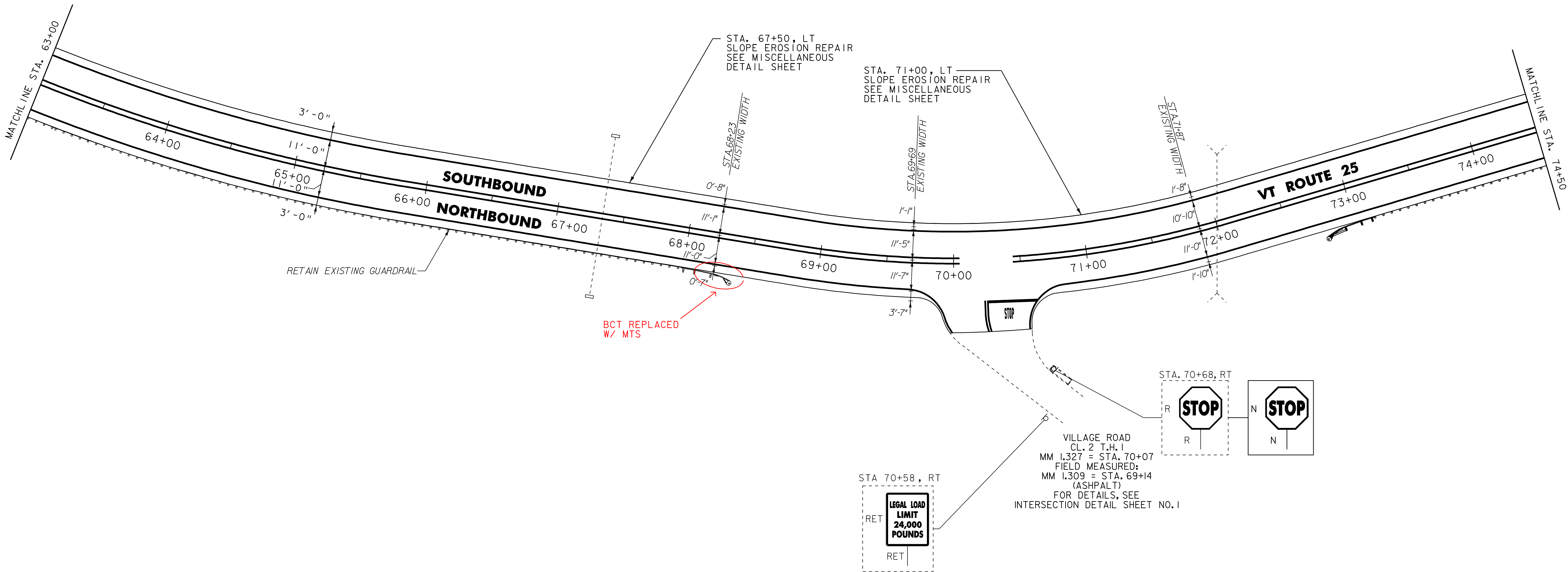
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 63+00 TO 74+50, SOLID LT & RT
STA. 69+14, DOUBLE SOLID RT (T.H. I)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 63+00 TO 74+50, SOLID LT & RT
STA. 69+14, DOUBLE SOLID RT (T.H. I)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 69+14, RT (T.H. I)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
~~STA. 69+14, RT - "STOP"~~

675.50 REMOVING SIGNS
AS SHOWN - I



NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT
LAYOUT
SHEET #9

PROJECT NAME: BRADFORD - ORANGE
PROJECT NUMBER: S1P_2213(1)

FILE NAME: p99b178.dgn PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL DRAWN BY: STANTEC
DESIGNED BY: STANTEC CHECKED BY: JLL
IPARM FILE: p99b178109.i SHEET 26 OF 84



621.81 REMOVAL AND DISPOSAL OF GUIDE POSTS
STA. 74+50 TO 76+59, RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 74+50 TO 82+63, SOLID LT & RT
STA. 82+63 TO 86+50, SOLID LT, DASHED RT
STA. 80+00 TO 81+75, DOUBLE SOLID LT (T.H. 28)
STA. 88+14, DOUBLE SOLID LT (T.H. 28)

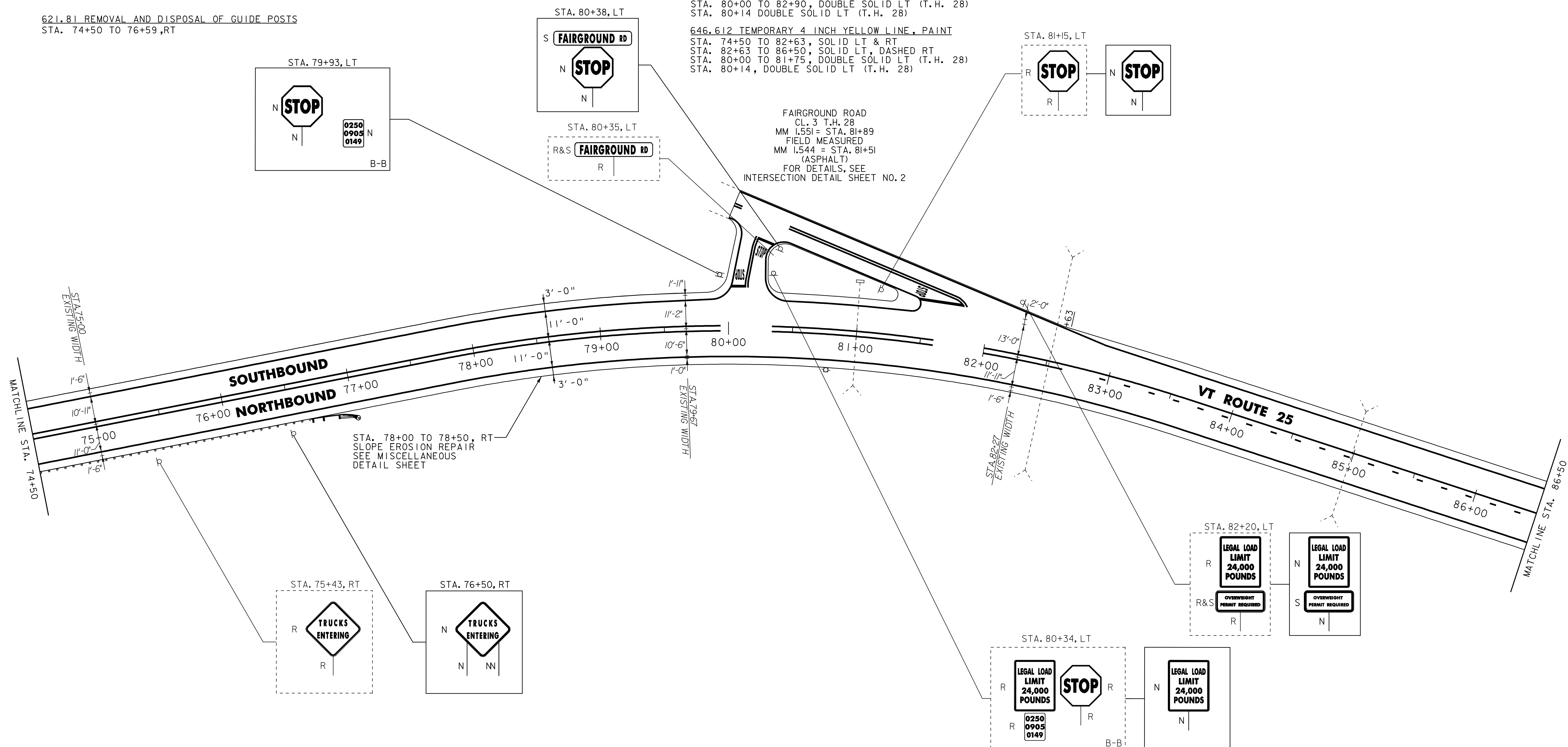
646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
2 - STA. 80+14, LT - "STOP"
STA. 81+62, LT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 74+50 TO 86+50, SOLID LT & RT
STA. 80+00 TO 82+90, DOUBLE SOLID LT (T.H. 28)
STA. 80+14 DOUBLE SOLID LT (T.H. 28)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 74+50 TO 82+63, SOLID LT & RT
STA. 82+63 TO 86+50, SOLID LT, DASHED RT
STA. 80+00 TO 81+75, DOUBLE SOLID LT (T.H. 28)
STA. 80+14, DOUBLE SOLID LT (T.H. 28)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~2 STA. 80+14, LT "STOP"~~
~~STA. 81+62, LT "STOP"~~

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 2



NOTES:

1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #10



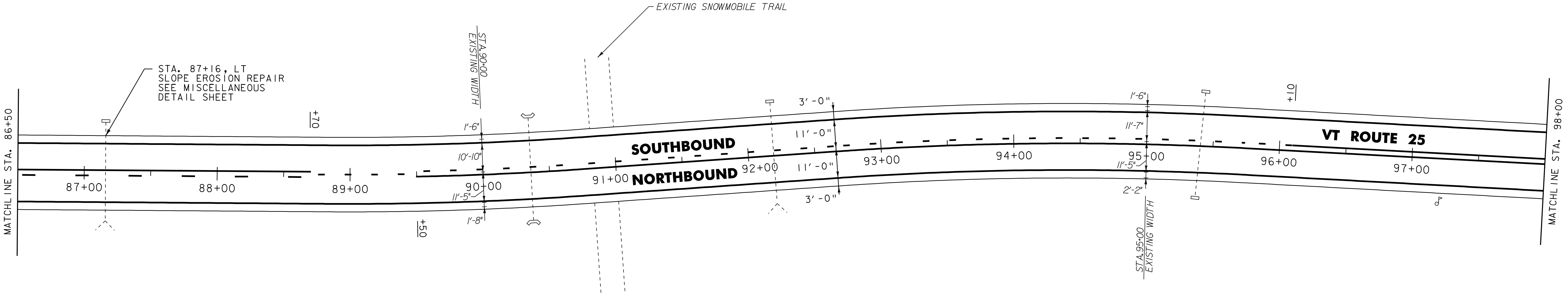
PROJECT NAME: <u>BRADFORD - ORANGE</u>	
PROJECT NUMBER: <u>STP 2213(I)</u>	
FILE NAME: <u>p99b178.dgn</u>	PLOT DATE: <u>28-MAY-2010 13:</u>
PROJECT LEADER: <u>JLL</u>	DRAWN BY: <u>STANTEC</u>
DESIGNED BY: <u>STANTEC</u>	CHECKED BY: <u>JLL</u>
IPARM FILE: p99b17810.i	SHEET <u>27</u> OF <u>84</u>

646.20
~~646.402 DURABLE~~ 4 INCH WHITE LINE, THERMOPLASTIC
STA. 86+50 TO 98+00, SOLID LT & RT

646.21
~~646.412 DURABLE~~ 4 INCH YELLOW LINE, THERMOPLASTIC
STA. 86+50 TO 88+70, SOLID LT, DASHED RT
STA. 88+70 TO 89+50, DASHED C
STA. 89+50 TO 96+10, DASHED LT, SOLID RT
STA. 96+10 TO 98+00, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 86+50 TO 98+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 86+50 TO 88+70, SOLID LT, DASHED RT
STA. 88+70 TO 89+50, DASHED C
STA. 89+50 TO 96+10, DASHED LT, SOLID RT
STA. 96+10 TO 98+00, SOLID LT & RT

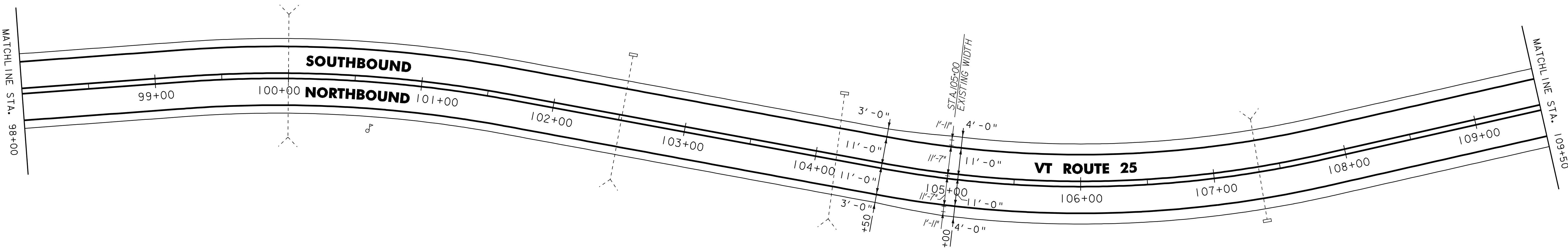


646.20
~~646.402 DURABLE~~ 4 INCH WHITE LINE, ~~THERMOPLASTIC~~
STA. 98+00 TO 109+50, SOLID LT & RT

646.21
~~646.412 DURABLE~~ 4 INCH YELLOW LINE, ~~THERMOPLASTIC~~
STA. 98+00 TO 109+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 98+00 TO 109+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 98+00 TO 109+50, SOLID LT & RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT
LAYOUT
SHEET #11



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP_2213(1)
FILE NAME:	p99b178.dgn
PLOT DATE:	28-MAY-2010 13:4
PROJECT LEADER:	JLL
DRAWN BY:	SIANTEC
DESIGNED BY:	SIANTEC
CHECKED BY:	JLL
IPARM FILE:	p99b17811.i
SHEET	28 OF 84

525.10 REMOVAL OF EXISTING RAILING
STA. 120+76.5 TO 121+01.5, LT
STA. 120+76.5 TO 121+01.5, RT

525.40 BRIDGE RAILING, GALVANIZED HD STEEL BEAM/CURB MOUNTED
STA. 120+76.5 TO 121+01.5, RT

525.60 BRIDGE RAILING REPAIR, TYPE III
STA. 120+76.5 TO 121+01.5, LT

529.25 REMOVAL OF CONCRETE OR MASONRY
STA. 120+81 TO 120+97, RT

617.10 RELOCATE MAILBOX, SINGLE SUPPORT
STA. 119+43, RT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
82.75 STA. 119+45.25 TO 120+45.25, RT
120+20.25 STA. 119+95.25 TO 120+45.25, LT
STA. 121+32.75 TO 121+50, LT

621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
STA. 120+45.25 TO 120+76.5, LT
STA. 120+45.25 TO 120+76.5, RT
STA. 121+01.5 TO 121+26.5, RT
STA. 121+01.5 TO 121+32.75, LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA 119+57.75 TO 119+95.25, LT
STA 119+45.25 TO 119+82.75 RT

621.60 ANCHOR FOR STEEL BEAM RAIL
STA. 119+45.25, RT
STA. 121+26.5, RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 119+39 TO 120+76.5, RT
STA 120+40 TO 121+50, LT
STA. 121+01.5 TO 121+28, RT

646.20
646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC
STA. 109+50 TO 121+50, SOLID LT & RT
STA. 113+62, DOUBLE SOLID LT (T.H. 4)

646.21
646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC
STA. 109+50 TO 121+50, SOLID LT & RT
STA. 113+62, DOUBLE SOLID LT (T.H. 4)

646.26
646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC
STA. 113+62, LT (T.H. 4)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 113+62, LT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 109+50 TO 121+50, SOLID LT & RT
STA. 113+62, DOUBLE SOLID LT (T.H. 4)

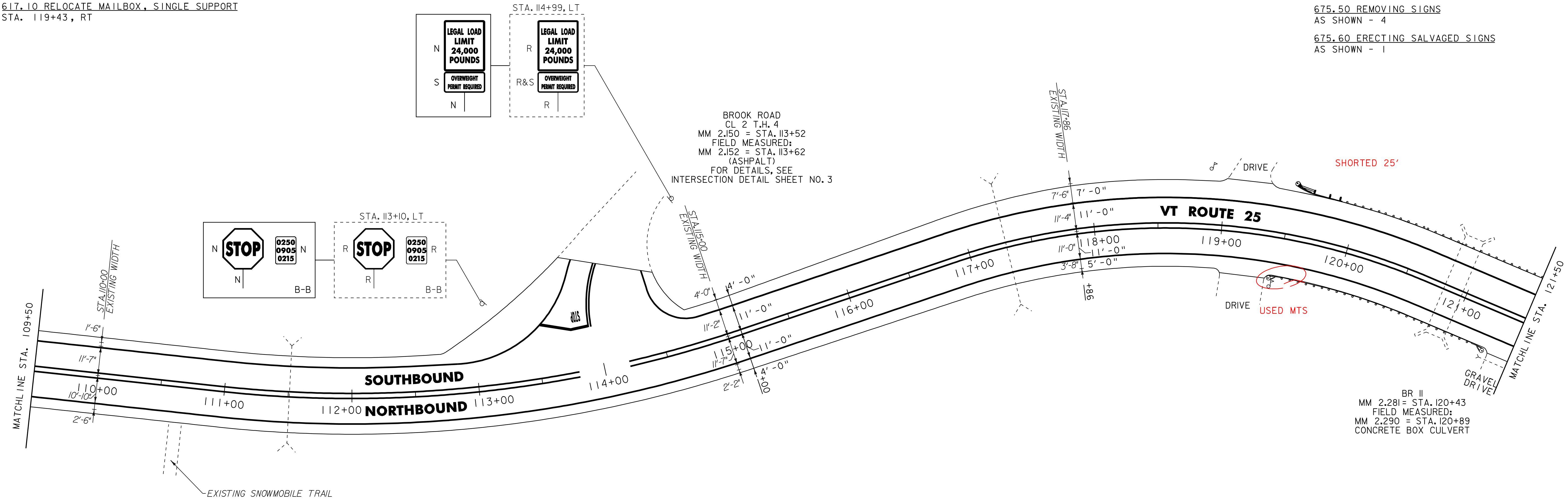
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 109+50 TO 121+50, SOLID LT & RT
STA. 113+62, DOUBLE SOLID LT (T.H. 4)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 113+62, LT (T.H. 4)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
STA. 113+62, LT - "STOP"

675.50 REMOVING SIGNS
AS SHOWN - 4

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1



NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. FOR LEGEND, SEE LAYOUT SHEET #1



NOT TO SCALE

PROJECT
LAYOUT
SHEET #12

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(I)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178112.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	29 OF 84

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 121+50 TO ~~+23+32.75~~, LT
~~121+95.25~~

646.20
~~646.402 DURABLE~~ 4 INCH WHITE LINE, ~~THERMOPLASTIC~~
STA. 121+50 TO 133+50, SOLID LT & RT

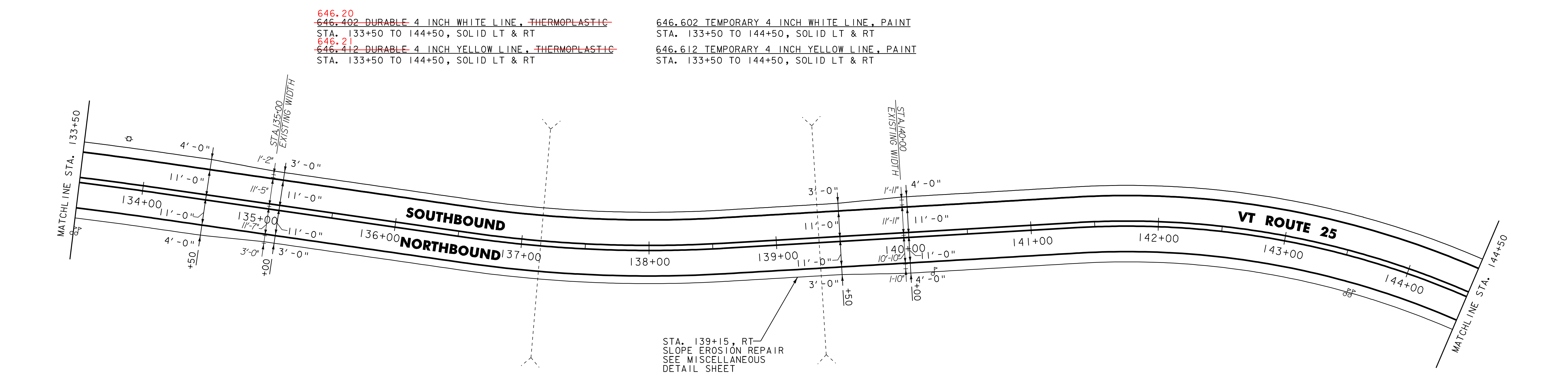
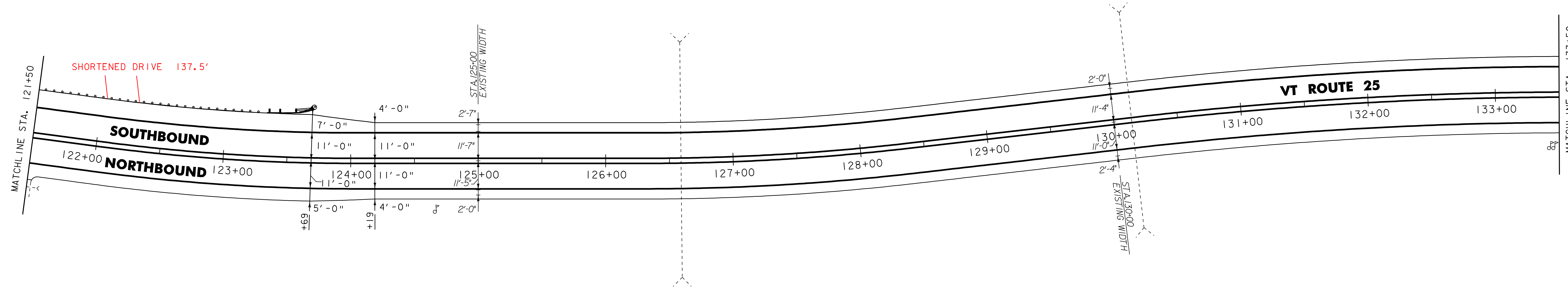
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 121+50 TO 133+50, SOLID LT & RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. ~~+23+32.75~~ TO ~~+23+70.25~~, LT
~~121+95.25~~ 122+32.75

646.21
~~646.412 DURABLE~~ 4 INCH YELLOW LINE, ~~THERMOPLASTIC~~
STA. 121+50 TO 133+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 121+50 TO 133+50, SOLID LT & RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 121+50 TO 121+66, LT



- NOTES:
- 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 - 2. FOR LEGEND, SEE LAYOUT SHEET #1



NOT TO SCALE

PROJECT
LAYOUT
SHEET #13

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(I)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	SIANTEC
IPARM FILE:	p99b178113.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	SIANTEC
CHECKED BY:	JLL
SHEET	30 OF 84

~~616.35 TREATED TIMBER CURB~~
~~STA. 152+75 TO 153+50, RT~~
~~621.20 STEEL BEAM GUARDRAIL, GALVANIZED~~
~~STA. 153+47.5 TO 156+50, RT~~

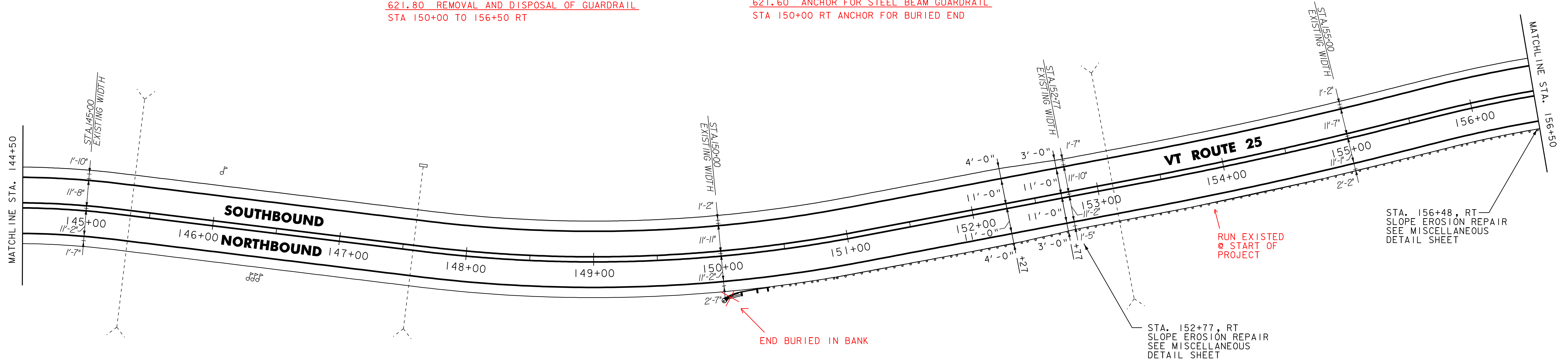
621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 150+35 TO 153+47.5, RT
150+00 156+50
621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 149+97.5 TO 150+35, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 144+50 TO 156+50, SOLID LT & RT
646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 144+50 TO 156+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 144+50 TO 156+50, SOLID LT & RT
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 144+50 TO 156+50, SOLID LT & RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA 150+00 TO 156+50 RT

621.60 ANCHOR FOR STEEL BEAM GUARDRAIL
STA 150+00 RT ANCHOR FOR BURIED END

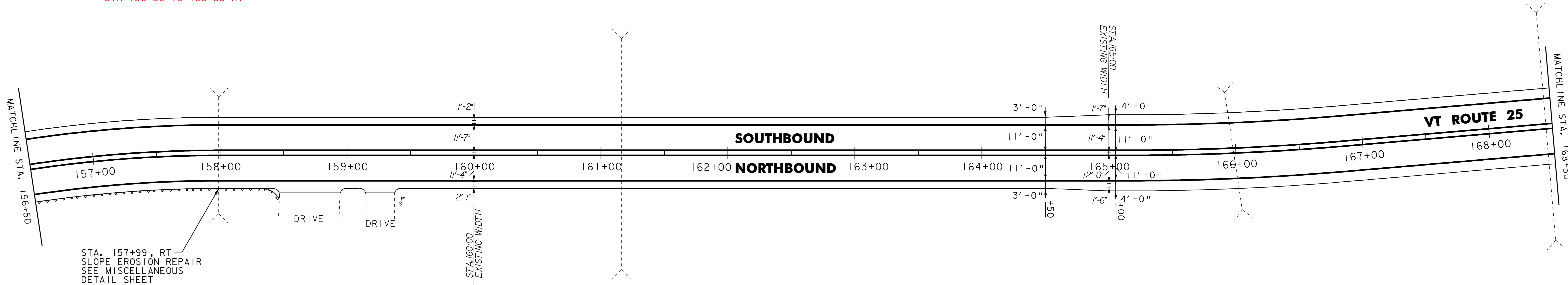


621.205 ~~STEEL BEAM GUARDRAIL, GALVANIZED~~ W/ 8' POSTS
STA. 156+50 TO 158+35, RT
621.60 ANCHOR FOR STEEL BEAM RAIL
STA. 158+35, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 156+50 TO 168+50, SOLID LT & RT
646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 156+50 TO 168+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 156+50 TO 168+50, SOLID LT & RT
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 156+50 TO 168+50, SOLID LT & RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA 156+50 TO 158+35 RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

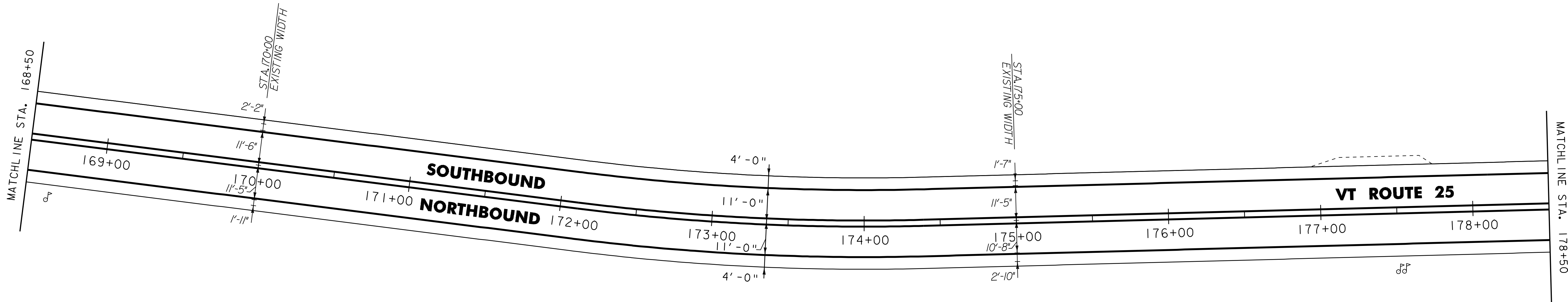


PROJECT
LAYOUT
SHEET #14

PROJECT NAME: BRADFORD - ORANGE	
PROJECT NUMBER: STP 2213(I)	
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178114.i	SHEET 31 OF 84

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 168+50 TO 178+50, SOLID LT & RT
646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 168+50 TO 178+50, SOLID LT & RT

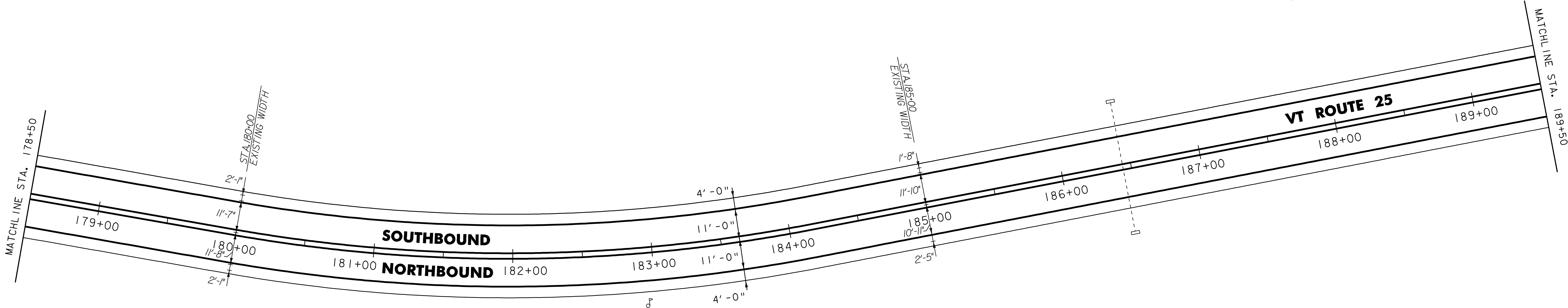
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 168+50 TO 178+50, SOLID LT & RT
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 168+50 TO 178+50, SOLID LT & RT



616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
STA 186+51 LT & RT CULVERT CROSSING

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 178+50 TO 189+50, SOLID LT & RT
646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 178+50 TO 189+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 178+50 TO 189+50, SOLID LT & RT
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 178+50 TO 189+50, SOLID LT & RT



- NOTES:
- 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 - 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE



PROJECT
LAYOUT
SHEET #15

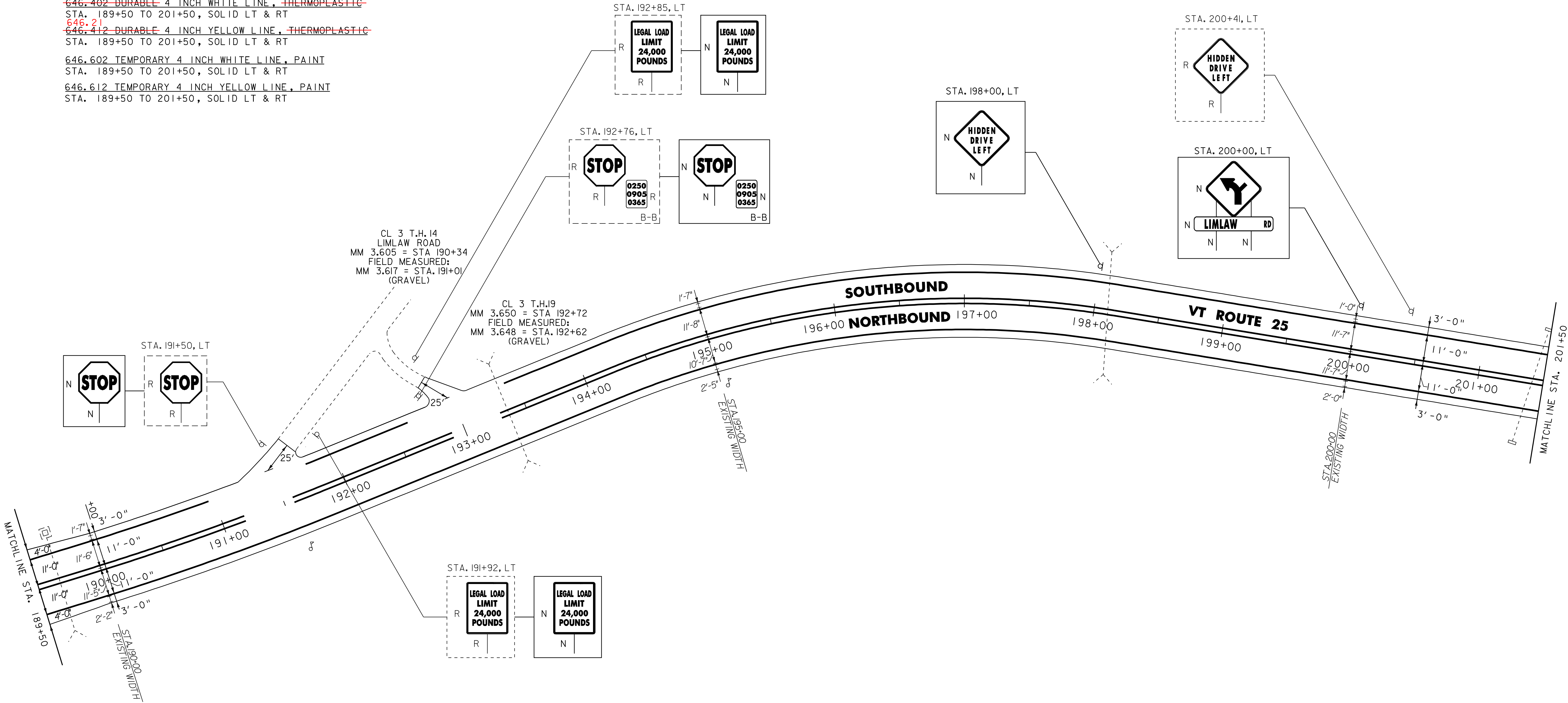
PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178115.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	32 OF 84

604.412, 604.415, OR 604.418 REHAB.
DI'S, CB'S OR MH'S, CLASS I, II OR III
STA. 189+67, LT
~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 189+50 TO 201+50, SOLID LT & RT
~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 189+50 TO 201+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 189+50 TO 201+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 189+50 TO 201+50, SOLID LT & RT

675.50 REMOVING SIGNS
AS SHOWN - 6



- NOTES:
- 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 - 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT
LAYOUT
SHEET #16



PROJECT NAME: BRADFORD - ORANGE	
PROJECT NUMBER: STP 2213(1)	
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178116.i	SHEET 33 OF 84

525.60 BRIDGE RAILING REPAIR, TYPE III
CORINTH STA. 204+94.13 TO 205+37.88, RT
CORINTH STA. 205+01.13 TO 205+44.88, LT

~~617.12 RELOCATE MAILBOX, MULTIPLE SUPPORT~~
~~CORINTH STA. 206+32, RT~~

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
CORINTH STA. 204+32.38 TO 204+69.88, LT
CORINTH STA. 204+37.88 TO 204+62.88, RT
CORINTH STA. 205+69.13 TO 206+19.13, RT
CORINTH STA. 205+76.1 TO 208+01.1, LT
TOPSHAM STA. 2+50 TO 3+50, LT

621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
CORINTH STA. 204+62.88 TO 204+94.13, RT
CORINTH STA. 204+69.88 TO 205+01.13, LT
CORINTH STA. 205+37.88 TO 205+69.13, RT
CORINTH STA. 205+44.88 TO 205+76.1, LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
CORINTH STA. 204+00.38 TO 204+37.88, RT
CORINTH STA. 208+01.1 TO 208+38.6, LT
TOPSHAM STA. 2+12.5 TO 2+50, LT

621.60 ANCHOR FOR STEEL BEAM RAIL
CORINTH STA. 204+32.38, LT
CORINTH STA. 206+19.13, RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL

CORINTH STA. 204+26 TO 206+02, LT
CORINTH STA. 204+57 TO 206+30, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
CORINTH STA. 201+50 TO TOPSHAM STA 3+50, SOLID LT & RT
646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
CORINTH STA. 201+50 TO TOPSHAM STA 3+50, SOLID LT & RT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
TOPSHAM STA. 0+41, RT - "SCHOOL"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT

CORINTH STA. 201+50 TO TOPSHAM STA 3+50, SOLID LT & RT

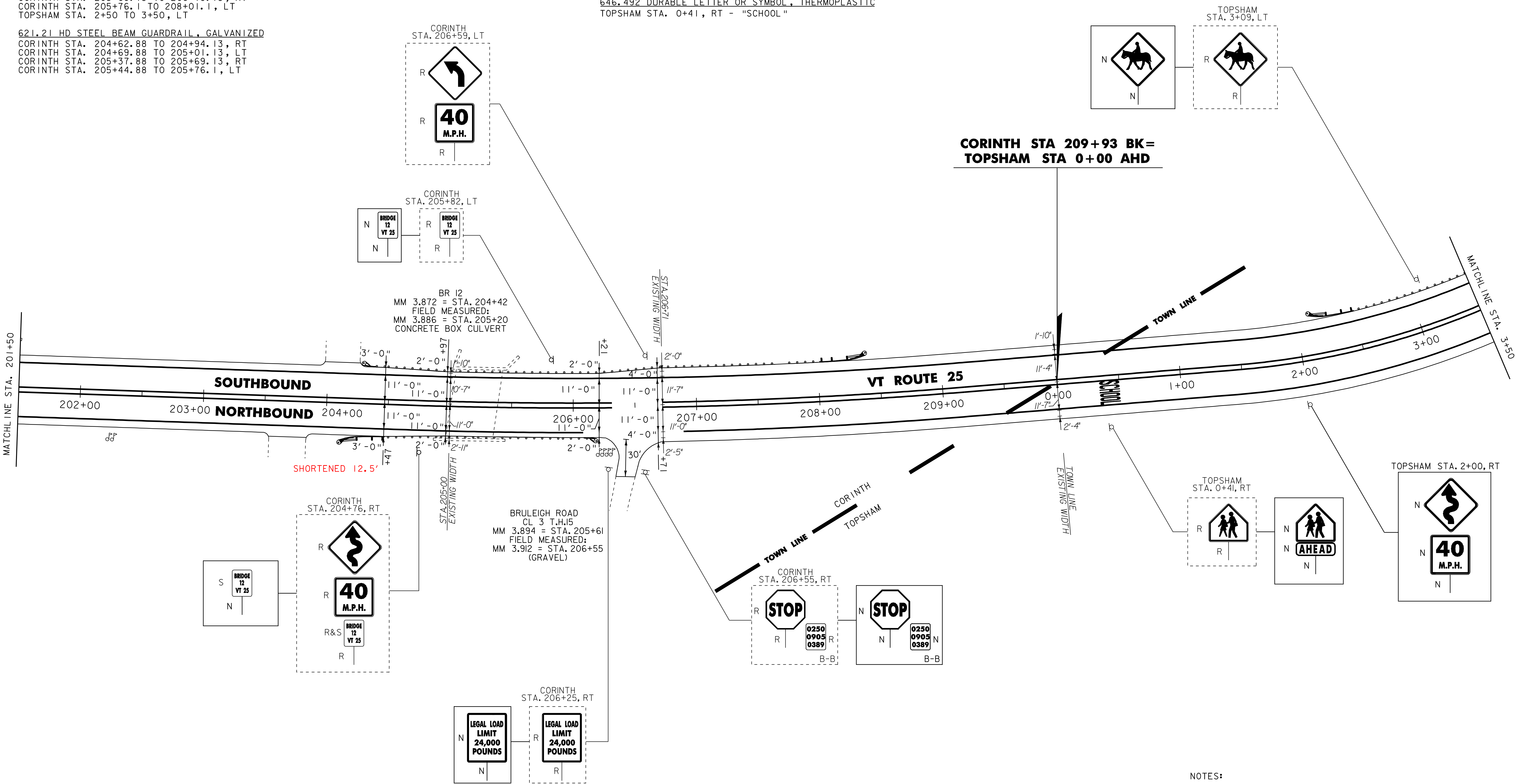
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
CORINTH STA. 201+50 TO TOPSHAM STA 3+50, SOLID LT & RT

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~TOPSHAM STA. 0+41, RT - "SCHOOL"~~

675.50 REMOVING SIGNS

AS SHOWN - 11

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT
LAYOUT
SHEET #17



PROJECT NAME: BRADFORD - ORANGE	
PROJECT NUMBER: SIP 2213(I)	
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178117.i	SHEET 34 OF 84

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 3+50 TO 5+12.5, LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 5+12.5 TO 5+50, LT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 3+50 TO 15+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 3+50 TO 15+50, SOLID LT & RT
STA. 5+43, DOUBLE SOLID RT. (T.H. 76)

646.21
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 5+43, RT (T.H. 76)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 5+43, RT - "STOP"
STA. 10+06, LT - "SCHOOL "

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 3+50 TO 15+50, SOLID LT & RT

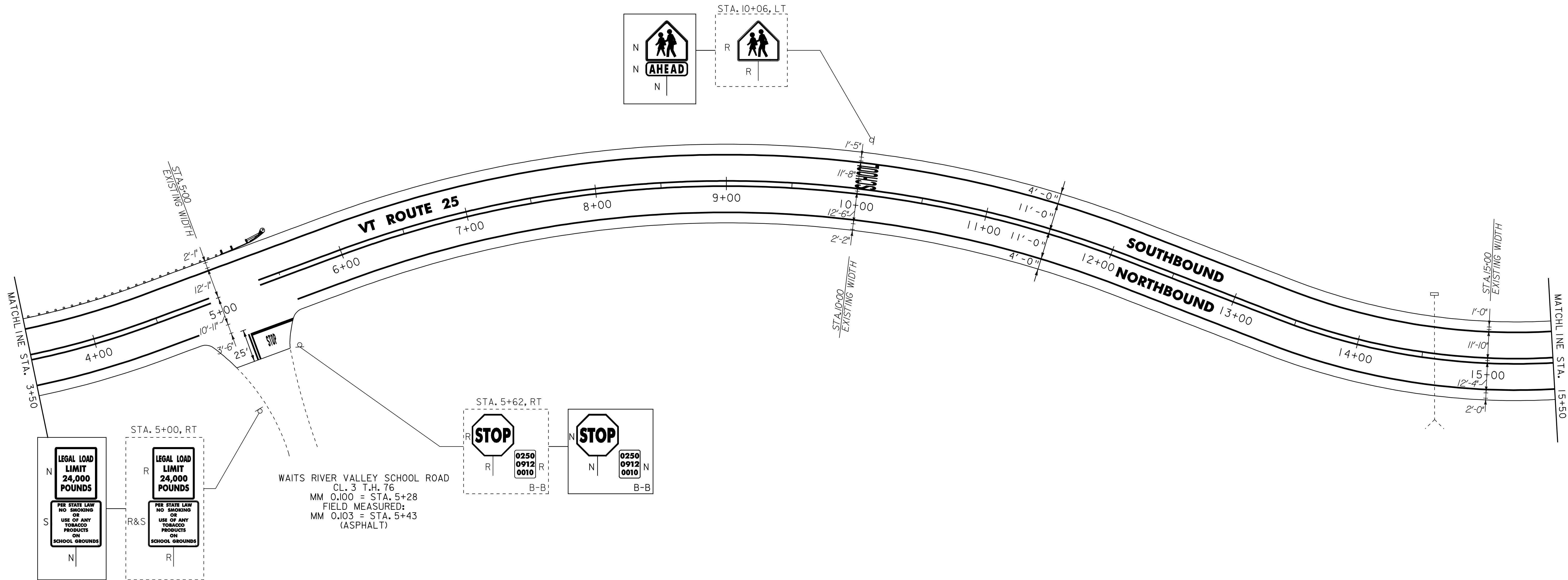
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 3+50 TO 15+50, SOLID LT & RT
STA. 5+43, DOUBLE SOLID RT. (T.H. 76)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 5+43, RT (T.H. 76)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~STA. 5+43, RT - "STOP"~~
~~STA. 10+06, LT - "SCHOOL "~~

675.50 REMOVING SIGNS
AS SHOWN - 5

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1



NOTES:

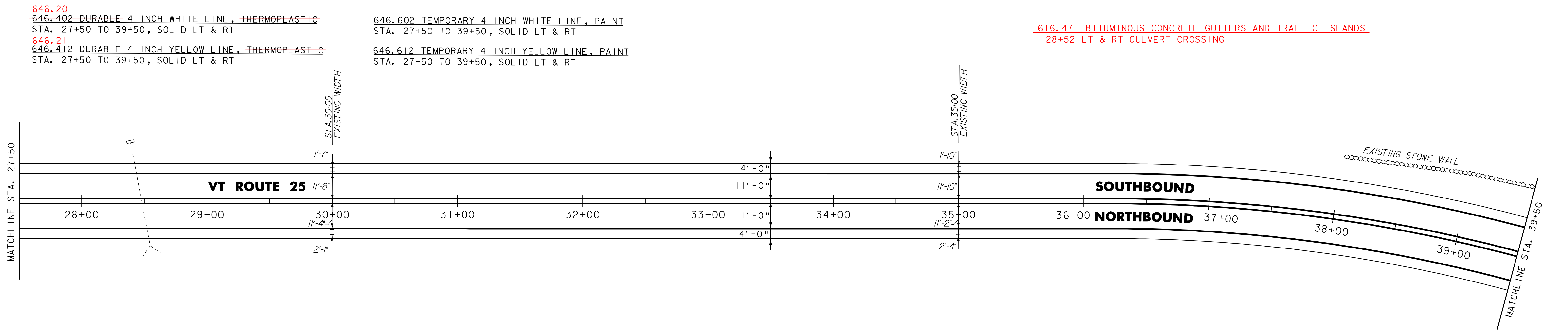
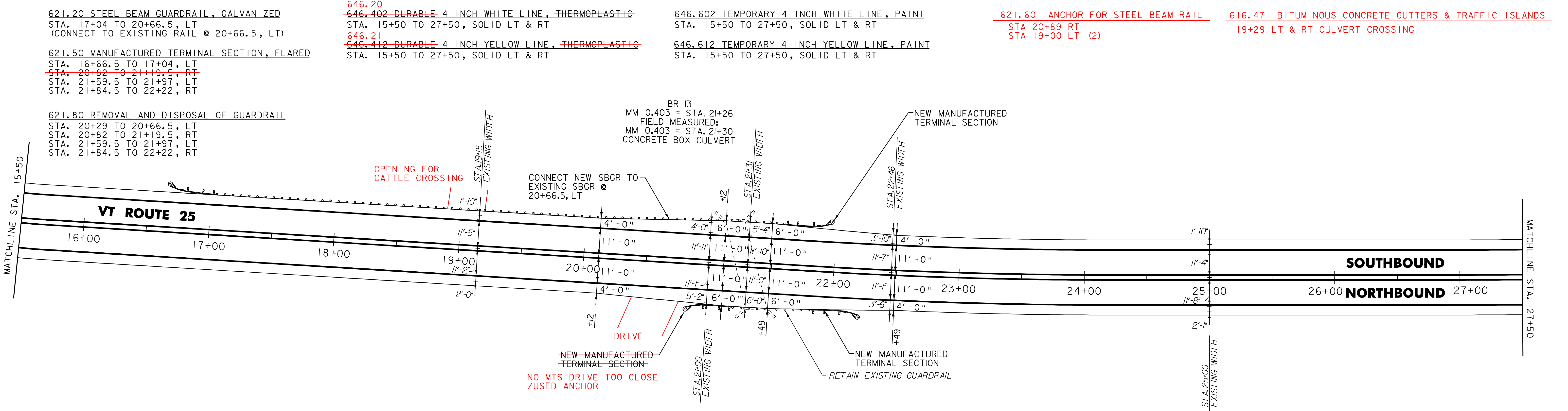
- ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
- FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

**PROJECT
LAYOUT
SHEET #18**



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178118.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	35 OF 84



NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE



PROJECT
LAYOUT
SHEET #19

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP_2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178119.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	36 OF 84

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 51+42.5 TO 51+50, RT

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 51+22.5 TO 51+50, LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED

STA. 50+85 TO 51+22.5, LT
~~STA. 51+05 TO 51+42.5, RT~~

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL

STA. 50+93 TO 51+50, LT
STA. 51+05 TO 51+50, RT

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 39+50 TO 51+50, SOLID LT & RT
STA. 42+42, DOUBLE SOLID RT (T.H. 38)

~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 39+50 TO 51+50, SOLID LT & RT

~~646.26~~
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 42+58, RT (T.H. 38)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 42+58, RT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 39+50 TO 51+50, SOLID LT & RT
STA. 42+42, DOUBLE SOLID RT (T.H. 38)

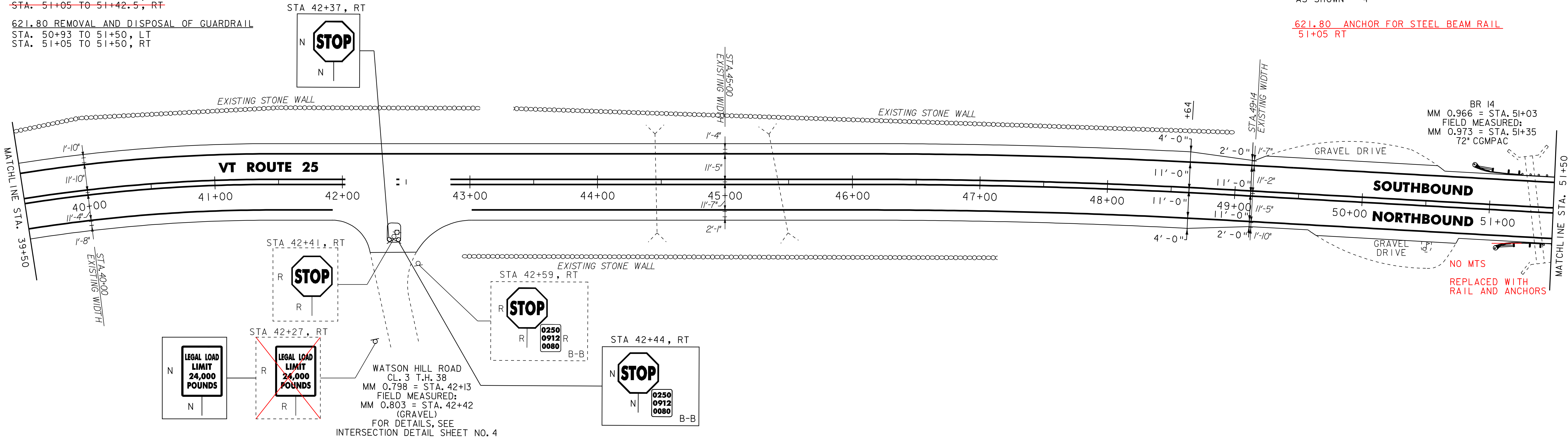
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 39+50 TO 51+50, SOLID LT & RT

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 42+58, RT (T.H. 38)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~STA. 42+58, LT - "STOP"~~

675.50 REMOVING SIGNS
AS SHOWN - 4

621.80 ANCHOR FOR STEEL BEAM RAIL
51+05 RT



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 51+50 TO 52+05, RT
STA. 54+10 TO 55+85, LT
STA. 58+39 TO 59+26.5, LT
57+87.5 63+50

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 51+50 TO 54+10, LT 54+00
~~STA. 59+26.5 TO 63+50, LT~~

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 52+05 TO 52+42.5, RT
STA. 55+85 TO 56+22.5, LT 77.5
STA. 58+01.5 TO 58+39, LT
57+50 57+87.5

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 51+50 TO 51+79, RT
STA. 51+50 TO 56+23, LT
STA. 58+01.5 TO 63+50, LT

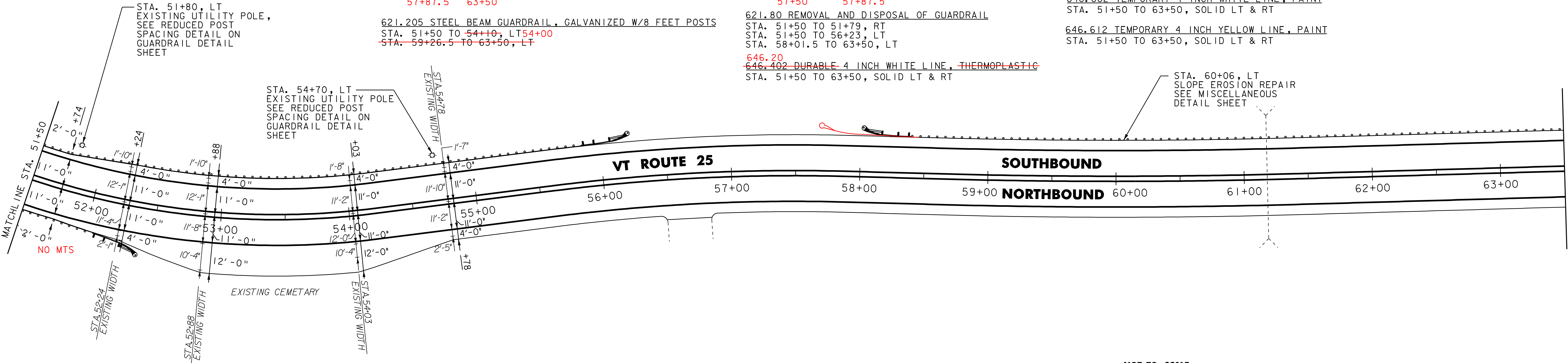
~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 51+50 TO 63+50, SOLID LT & RT

~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 51+50 TO 63+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 51+50 TO 63+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 51+50 TO 63+50, SOLID LT & RT

621.60 ANCHOR FOR STEEL BEAM RAIL
STA 51+80 RT



NOTES:

1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. FOR LEGEND, SEE LAYOUT SHEET #1



NOT TO SCALE	
PROJECT LAYOUT SHEET #20	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: SIP 2213(I)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
PROJECT LAYOUT SHEET #20	PROJECT LEADER: JLL
	DRAWN BY: STANTEC
	CHECKED BY: JLL
PROJECT LAYOUT SHEET #20	DESIGNED BY: STANTEC
	IPARM FILE: p99b178120.i
PROJECT LAYOUT SHEET #20	SHEET 37 OF 84

621.20
~~621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS~~
STA. 63+50 TO 65+51.5, LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 65+51.5 TO 65+89, LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 63+50 TO 65+95, LT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 63+50 TO 75+50, SOLID LT & RT
STA. 72+88, DOUBLE SOLID LT (T.H. 57)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 63+50 TO 75+50, SOLID LT & RT
STA. 72+88, DOUBLE SOLID LT (T.H. 57)

646.26
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 72+88, LT (T.H. 57)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 72+88, LT - "STOP"

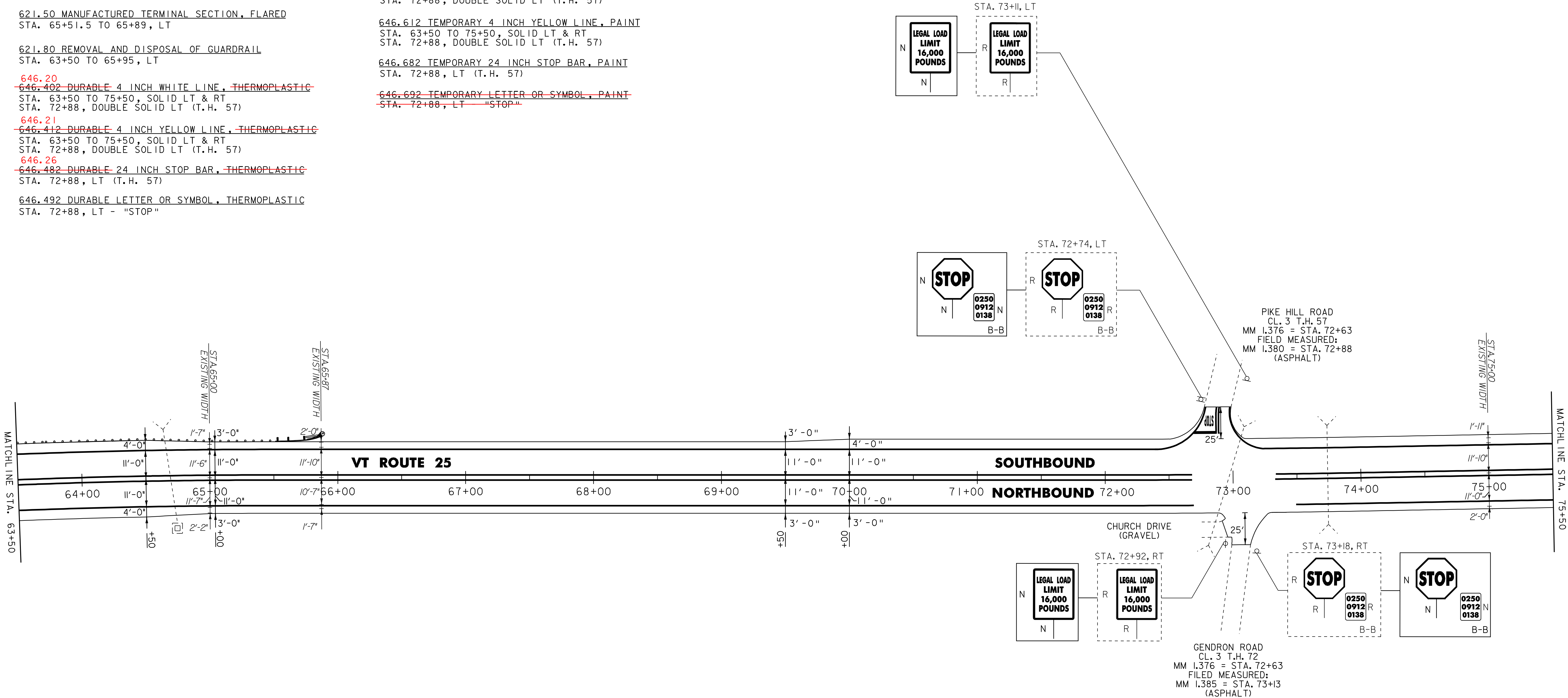
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 63+50 TO 75+50, SOLID LT & RT
STA. 72+88, DOUBLE SOLID LT (T.H. 57)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 63+50 TO 75+50, SOLID LT & RT
STA. 72+88, DOUBLE SOLID LT (T.H. 57)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 72+88, LT (T.H. 57)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~STA. 72+88, LT - "STOP"~~

675.50 REMOVING SIGNS
AS SHOWN - 6



- NOTES:
- ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 - FOR LEGEND, SEE LAYOUT SHEET #1



NOT TO SCALE

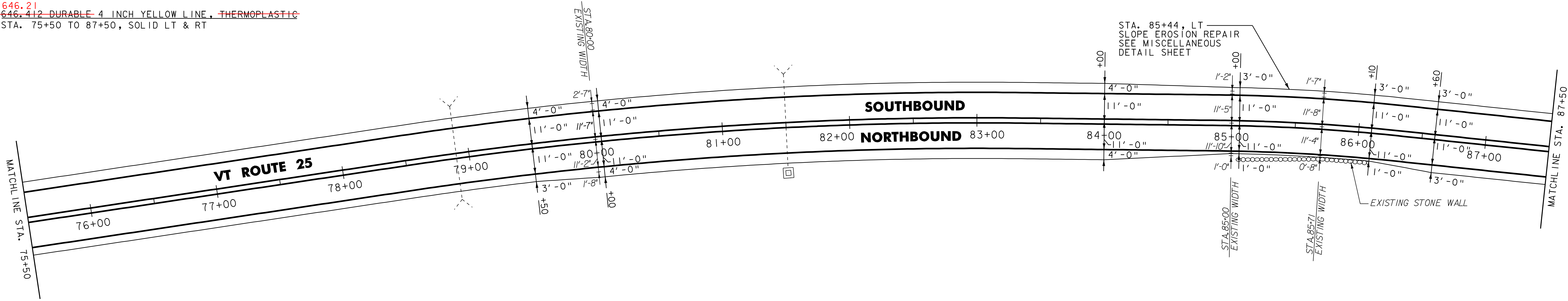
PROJECT
LAYOUT
SHEET #21

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP_2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	SIANTEC
IPARM FILE:	p99b178121.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	SIANTEC
CHECKED BY:	JLL
SHEET	38 OF 84

604.412, 604.415, OR 604.418 REHAB.
DI'S, CB'S OR MH'S, CLASS I, II OR III
STA. 81+51, RT **NO WORK WAS DONE**
~~646.20~~
~~646.402 DURABLE~~ 4 INCH WHITE LINE, ~~THERMOPLASTIC~~
STA. 75+50 TO 87+50, SOLID LT & RT
~~646.21~~
~~646.412 DURABLE~~ 4 INCH YELLOW LINE, ~~THERMOPLASTIC~~
STA. 75+50 TO 87+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 75+50 TO 87+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 75+50 TO 87+50, SOLID LT & RT



621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 98+18 TO 98+55.5, LT

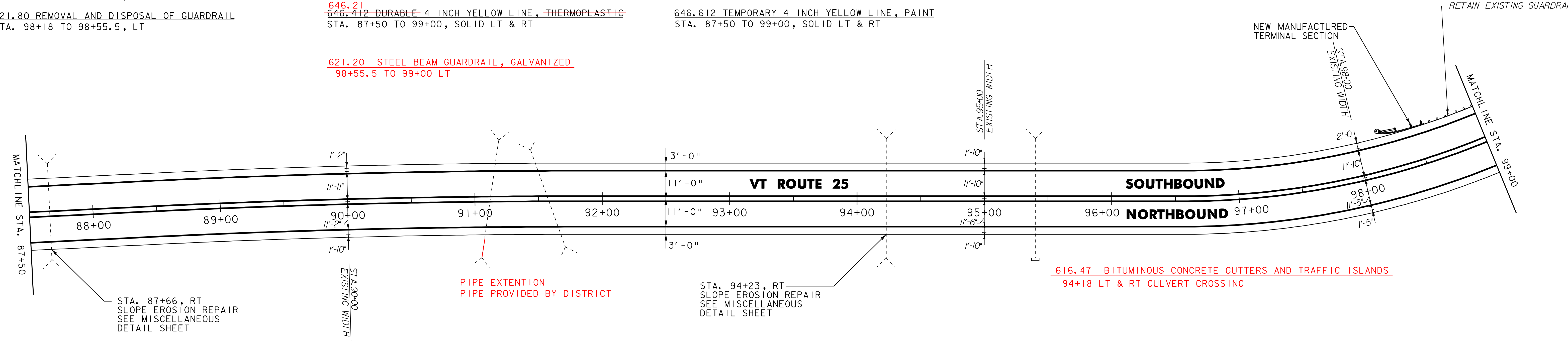
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 98+18 TO 98+55.5, LT

~~646.20~~
~~646.402 DURABLE~~ 4 INCH WHITE LINE, ~~THERMOPLASTIC~~
STA. 87+50 TO 99+00, SOLID LT & RT
~~646.21~~
~~646.412 DURABLE~~ 4 INCH YELLOW LINE, ~~THERMOPLASTIC~~
STA. 87+50 TO 99+00, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 87+50 TO 99+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 87+50 TO 99+00, SOLID LT & RT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
98+55.5 TO 99+00 LT



- NOTES:
- ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 - FOR LEGEND, SEE LAYOUT SHEET #1



NOT TO SCALE

**PROJECT
LAYOUT
SHEET #22**

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178122.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	39 OF 84

100+17.5 TO 100+90 RT (UP HONEY CORNERS RD)

621.20 STEEL BEAM GUARDRAIL, GALVANIZED

STA. 103+71.5 TO 108+46.5, LT
99+00 TO 101+50.5 LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED

STA. 101+50.5 TO 101+88, LT
STA. 103+34 TO 103+71.5, LT
STA. 108+46.5 TO 108+84, LT
99+00 TO 100+17.5 RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL

STA. 101+50.5 TO 101+88, LT
STA. 104+41 TO 108+84, LT

621.60 ANCHORS FOR STEEL BEAM RAIL

STA 100+90 RT (AT TANGENT)

STA 100+90 RT (RADUIS ON HONEY CORNERS RD)

646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC

STA. 99+00 TO 111+00, SOLID LT & RT

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC

STA. 99+00 TO 111+00, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT

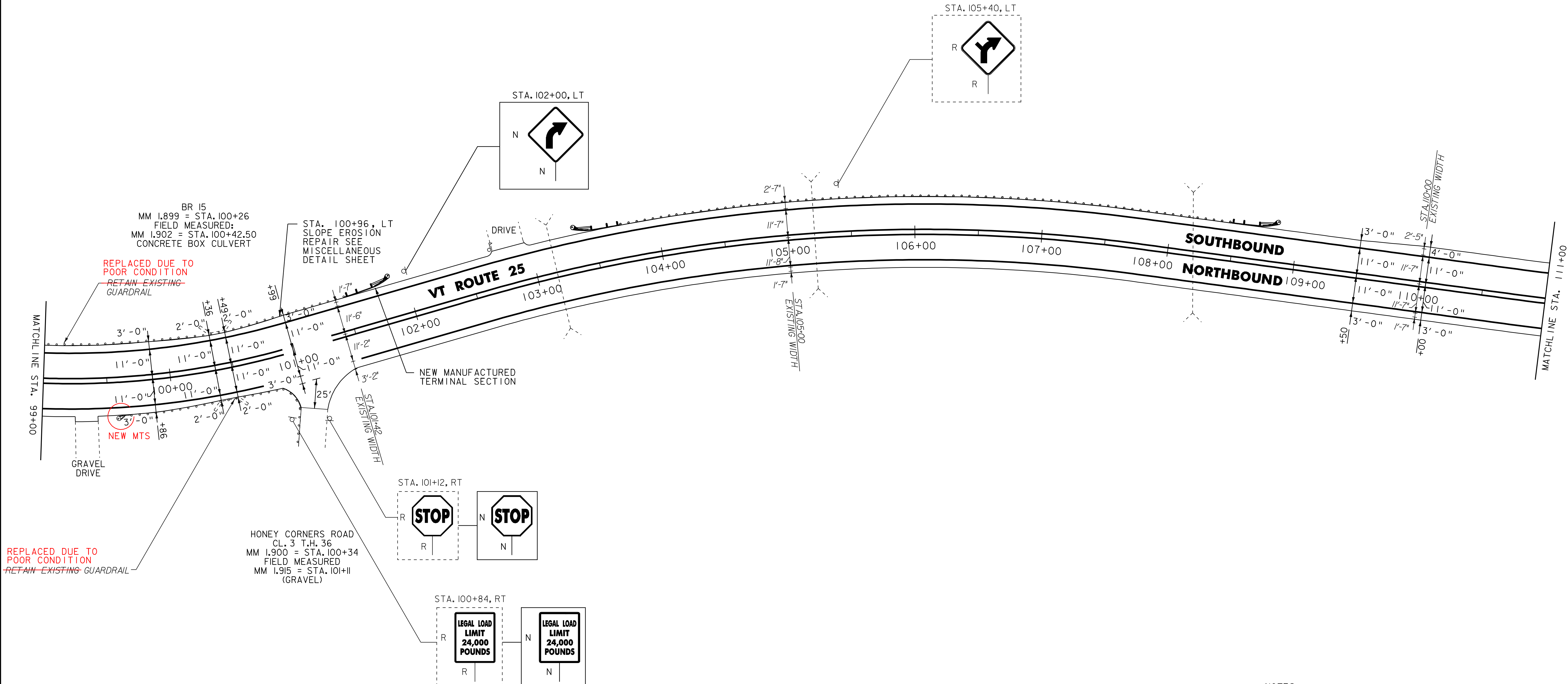
STA. 99+00 TO 111+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT

STA. 99+00 TO 111+00, SOLID LT & RT

675.50 REMOVING SIGNS

AS SHOWN - 3



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT
LAYOUT
SHEET #23

PROJECT NAME: BRADFORD - ORANGE

PROJECT NUMBER: STP 2213(1)

FILE NAME: p99b178.dgn

PROJECT LEADER: JLL

DESIGNED BY: STANTEC

IPARM FILE: p99b178123.i

PLOT DATE: 28-MAY-2010 13:4

DRAWN BY: STANTEC

CHECKED BY: JLL

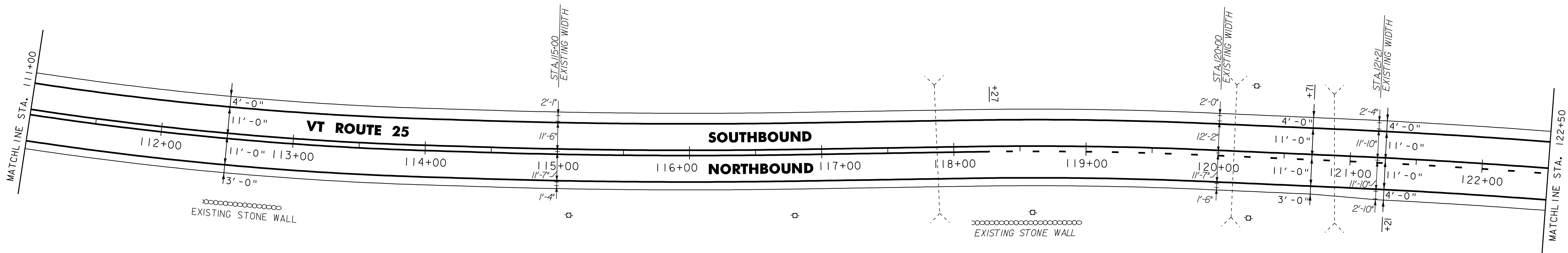
SHEET 40 OF 84



646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 111+00 TO 122+50, SOLID LT & RT
646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 111+00 TO 118+27, SOLID LT & RT
STA. 118+27 TO 122+50, SOLID LT, DASHED RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 111+00 TO 122+50, SOLID LT & RT
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 111+00 TO 118+27, SOLID LT & RT
STA. 118+27 TO 122+50, SOLID LT, DASHED RT

616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
120+83 RT & LT CULVERT CROSSING

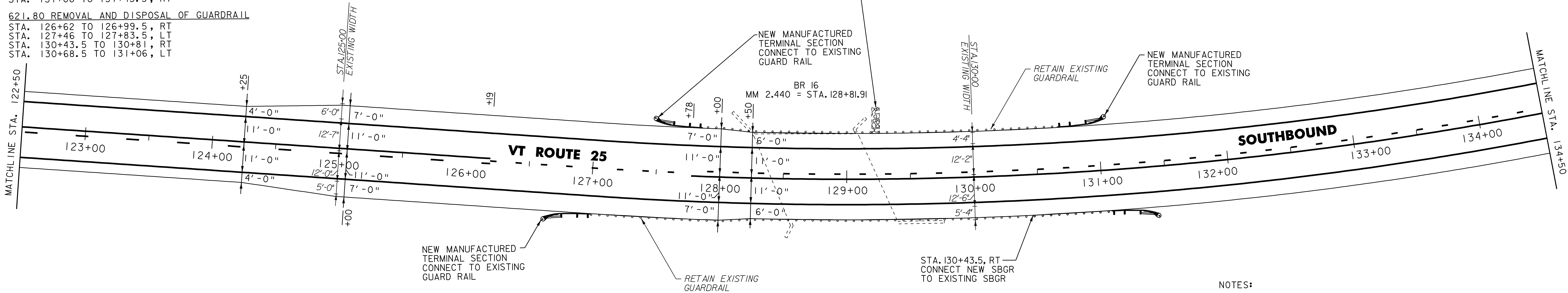


621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 130+43.5 TO 131+06, RT
621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 126+62 TO 126+99.5, RT
STA. 127+46 TO 127+83.5, LT
STA. 130+68.5 TO 131+06, LT
STA. 131+06 TO 131+43.5, RT
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 126+62 TO 126+99.5, RT
STA. 127+46 TO 127+83.5, LT
STA. 130+43.5 TO 130+81, RT
STA. 130+68.5 TO 131+06, LT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 122+50 TO 134+50, SOLID LT & RT
646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 122+50 TO 126+19, SOLID LT, DASHED RT
STA. 126+19 TO 127+78, DASHED C
STA. 127+78 TO 134+50, DASHED LT, SOLID RT

STA. 129+20, LT REMOVE EXISTING
BITUMINOUS GUTTER, CONSTRUCT
STONE FILL, TYPE I. SEE
MISCELLANEOUS DETAIL SHEET

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 122+50 TO 134+50, SOLID LT & RT
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 122+50 TO 126+19, SOLID LT, DASHED RT
STA. 126+19 TO 127+78, DASHED C
STA. 127+78 TO 134+50, DASHED LT, SOLID RT



NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE



PROJECT
LAYOUT
SHEET #24

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(I)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178124.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	41 OF 84

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 144+68 TO 144+93, RT
STA. 146+05 TO 146+50, RT
STA. 146+42.5 TO 146+50, LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 144+55.5 TO 144+93, LT

621.60 ANCHOR FOR STEEL BEAM RAIL
STA. ~~144+68~~, RT
144+53.5

621.70 GUARDRAIL APPROACH SECTION, GALVANIZED TYPE I
STA. 145+92.5 TO 146+42.5, LT
(CONNECT TO EXISTING BRIDGE RAIL ON BR 17)

621.71 GUARDRAIL APPROACH SECTION, GALVANIZED TYPE II
STA. 144+93 TO 145+05.5, LT
STA. 144+93 TO 145+05.5, RT
STA. 145+92.5 TO 146+05, RT
(CONNECT ALL SECTIONS TO THE
EXISTING BRIDGE RAIL ON BR 17)

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 144+42 TO 145+05.5, LT
STA. 144+56 TO 145+05.5, RT
STA. 145+92 TO 146+50, LT
STA. 145+92 TO 146+50, RT

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 134+50 TO 146+50, SOLID LT & RT
STA. 143+45, DOUBLE SOLID RT. (T.H. 49)
~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 134+50 TO 134+64, DASHED LT, SOLID RT
STA. 134+64 TO 146+50, SOLID LT & RT
STA. 143+45, DOUBLE SOLID RT. (T.H. 49)

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC
STA. 143+45, RT (T.H. 49)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 143+45, RT - "STOP"

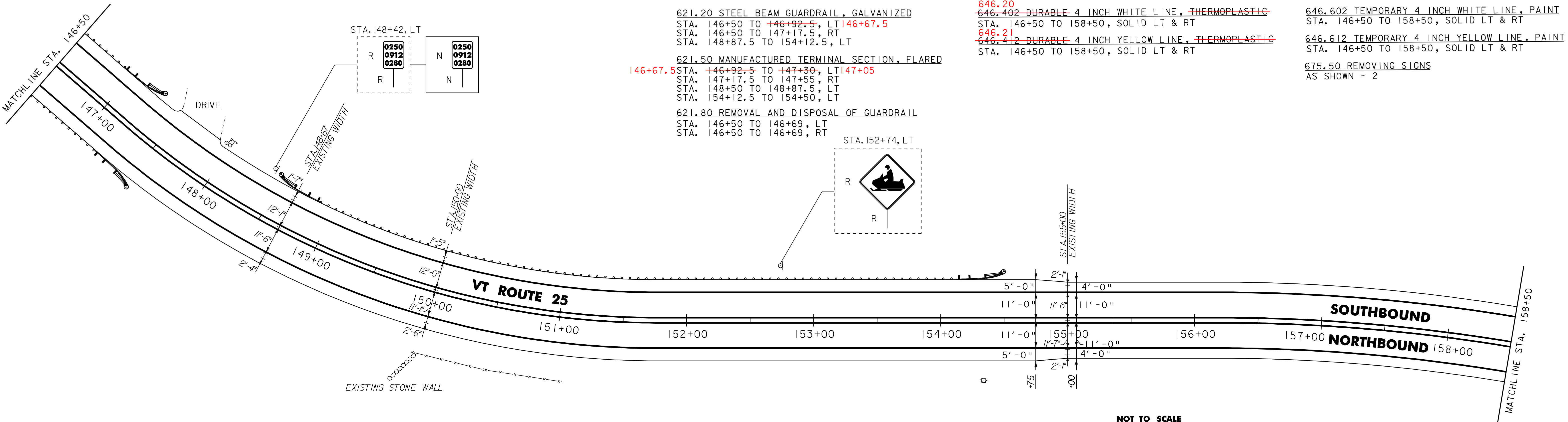
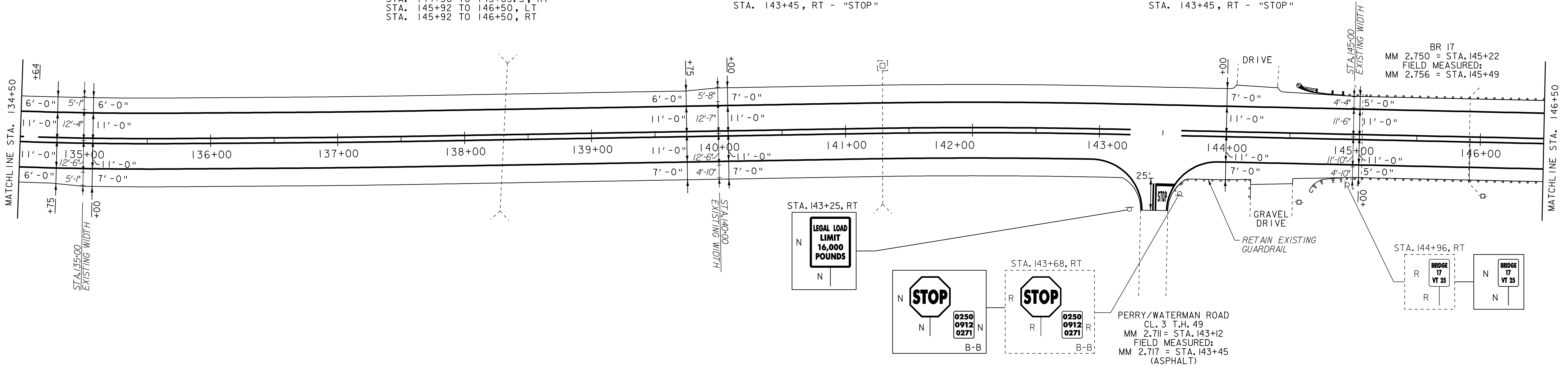
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 134+50 TO 146+50, SOLID LT & RT
STA. 143+45, DOUBLE SOLID RT. (T.H. 49)

675.50 REMOVING SIGNS
AS SHOWN - 3

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 134+50 TO 134+64, DASHED LT, SOLID RT
STA. 134+64 TO 146+50, SOLID LT & RT
STA. 143+45, DOUBLE SOLID RT. (T.H. 49)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 143+45, RT (T.H. 49)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
STA. 143+45, RT - "STOP"



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 146+50 TO ~~146+92.5~~, LT 146+67.5
STA. 146+50 TO 147+17.5, RT
STA. 148+87.5 TO 154+12.5, LT
621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. ~~146+92.5~~ TO ~~147+30~~, LT 147+05
STA. 147+17.5 TO 147+55, RT
STA. 148+50 TO 148+87.5, LT
STA. 154+12.5 TO 154+50, LT
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 146+50 TO 146+69, LT
STA. 146+50 TO 146+69, RT

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 146+50 TO 158+50, SOLID LT & RT
~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 146+50 TO 158+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 146+50 TO 158+50, SOLID LT & RT
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 146+50 TO 158+50, SOLID LT & RT
675.50 REMOVING SIGNS
AS SHOWN - 2

NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. FOR LEGEND, SEE LAYOUT SHEET #1



NOT TO SCALE

PROJECT
LAYOUT
SHEET #25

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(I)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178125.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	42 OF 84

604.412, 604.415, OR 604.418 REHAB.
DI'S, CB'S OR MH'S, CLASS I, II OR III
STA. 167+59, LT **NO WORK WAS DONE**

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 159+87.5 TO 164+12.5, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 159+50 TO 159+87.5, RT
STA. 164+12.5 TO 164+50, RT

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 158+50 TO 170+50, SOLID LT & RT
STA. 168+02, DOUBLE SOLID LT (T.H. 3)

~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 158+50 TO 170+50, SOLID LT & RT
STA. 168+02, DOUBLE SOLID LT. (T.H. 3)

~~646.26~~
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 168+02, LT (T.H. 3)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 168+02, LT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 158+50 TO 170+50, SOLID LT & RT
STA. 168+02, DOUBLE SOLID LT (T.H. 3)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 158+50 TO 170+50, SOLID LT & RT
STA. 168+02, DOUBLE SOLID LT. (T.H. 3)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 168+02, LT (T.H. 3)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~STA. 168+02, LT "STOP"~~

675.50 REMOVING SIGNS
AS SHOWN - 5

STA. 168+80, LT

LEGAL LOAD LIMIT 24,000 POUNDS

N

R

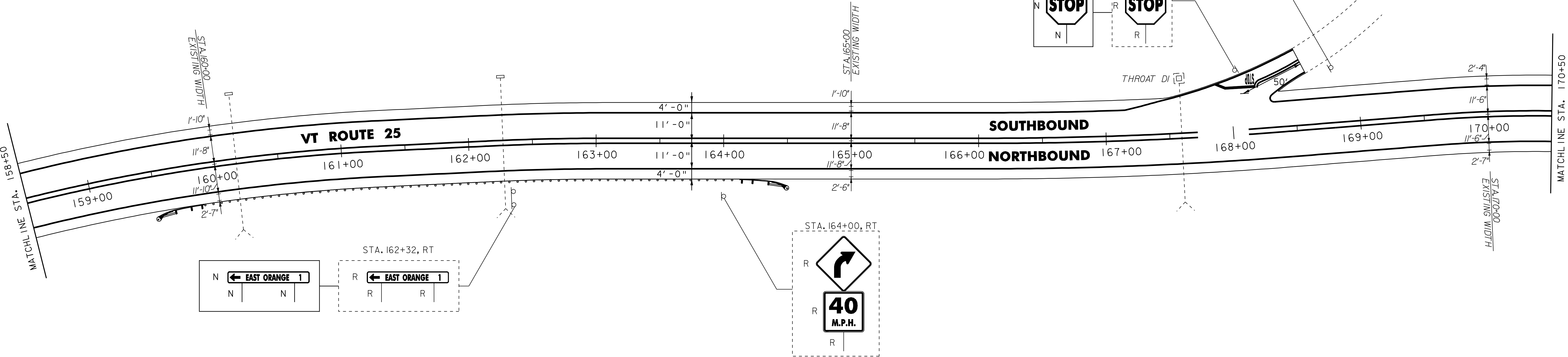
STA. 168+03, LT

STOP

N

R

E. ORANGE ROAD
CL. 2 T.H. 3
MM 3.189 = STA. 168+38
FIELD MEASURED:
MM 3.182 = STA. 168+02
(ASPHALT)



NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. FOR LEGEND, SEE LAYOUT SHEET #1



NOT TO SCALE

PROJECT LAYOUT SHEET #26

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178126.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	43 OF 84

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 172+00 TO 176+00, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 171+62.5 TO 172+00, RT
STA. 176+00 TO 176+37.5, RT

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 170+50 TO 182+50, SOLID LT & RT
STA. 173+03, DOUBLE SOLID LT (T.H. 48)

~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 170+50 TO 182+50, SOLID LT & RT
STA. 173+03, DOUBLE SOLID LT (T.H. 48)

~~646.26~~
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 173+03, LT (T.H. 48)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 173+03, LT - "STOP"

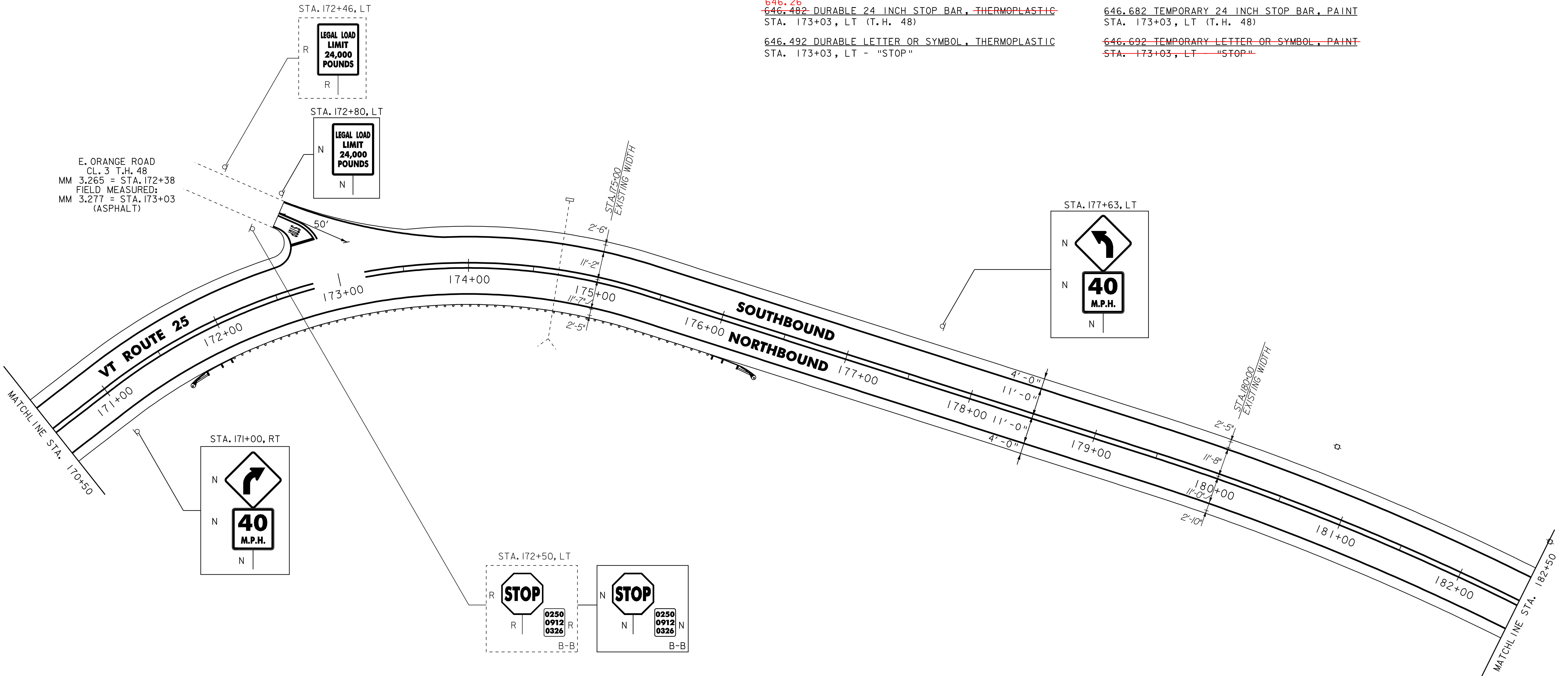
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 170+50 TO 182+50, SOLID LT & RT
STA. 173+03, DOUBLE SOLID LT (T.H. 48)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 170+50 TO 182+50, SOLID LT & RT
STA. 173+03, DOUBLE SOLID LT (T.H. 48)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 173+03, LT (T.H. 48)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~STA. 173+03, LT - "STOP"~~

675.50 REMOVING SIGNS
AS SHOWN - 3



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

**PROJECT
LAYOUT
SHEET #27**

PROJECT NAME: <u>BRADFORD - ORANGE</u>	
PROJECT NUMBER: <u>SIP 2213(I)</u>	
FILE NAME: <u>p99b178.dgn</u>	PLOT DATE: <u>28-MAY-2010 13:4</u>
PROJECT LEADER: <u>JLL</u>	DRAWN BY: <u>SIANTEC</u>
DESIGNED BY: <u>SIANTEC</u>	CHECKED BY: <u>JLL</u>
IPARM FILE: <u>p99b178127.i</u>	
SHEET <u>44</u> OF <u>84</u>	



621.20 STEEL BEAM GUARDRAIL GALVANIZED

STA. 183+12.5 TO ~~194+50~~, RT ~~187+89~~
STA. 184+13.5 TO 187+88.5, LT
STA 188+14 TO 194+50 RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED

STA. 182+75 TO 183+12.5, RT
STA. 183+76 TO 184+13.5, LT
STA. 187+88.5 TO 188+26, LT

621.60 ANCHOR

STA 187+89 RT (DRIVE OPENING)
STA 188+14 RT (DRIVE OPENING)

646.20

~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 182+50 TO 194+50, SOLID LT & RT

646.21

~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 182+50 TO 194+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT

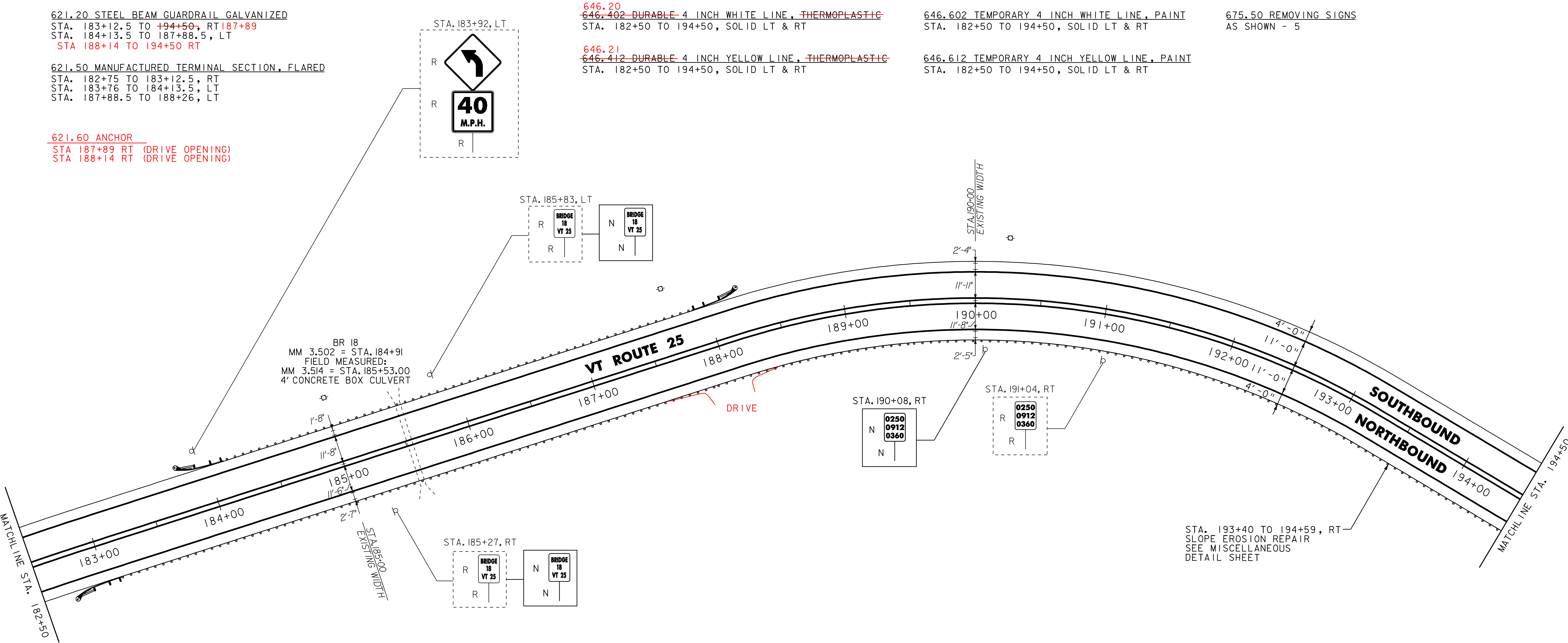
STA. 182+50 TO 194+50, SOLID LT & RT

675.50 REMOVING SIGNS

AS SHOWN - 5

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT

STA. 182+50 TO 194+50, SOLID LT & RT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT
LAYOUT
SHEET #28

PROJECT NAME: BRADFORD - ORANGE
PROJECT NUMBER: STP 2213(1)

FILE NAME: p99b178.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p99b178128.i
PLOT DATE: 28-MAY-2010 13:4
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 45 OF 84



621.20 STEEL BEAM GUARDRAIL, GALVANIZED
194+50 TO 196+50, RT

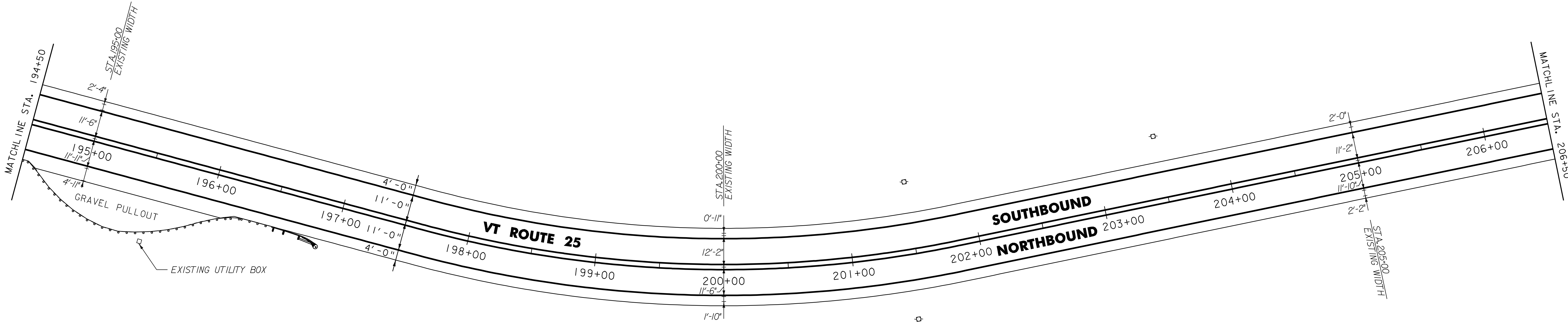
621.50 MANUFACTURED TERMINAL SECTION, FLARED
196+50 TO 196+87.5, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 194+50 TO 206+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 194+50 TO 206+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 194+50 TO 206+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 194+50 TO 206+50, SOLID LT & RT



- NOTES:
- 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 - 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT
LAYOUT
SHEET #29



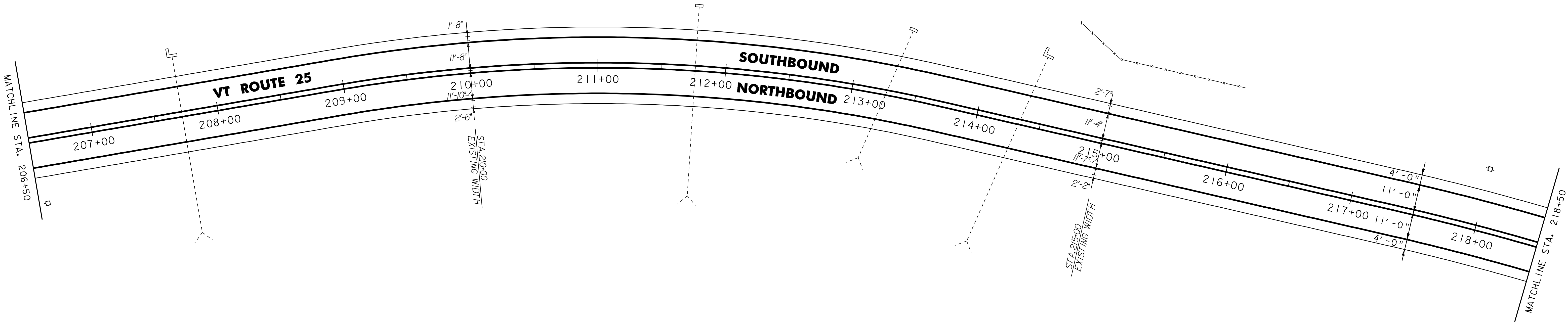
PROJECT NAME: BRADFORD - ORANGE	
PROJECT NUMBER: STP 2213(1)	
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178129.i	SHEET 46 OF 84

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 206+50 TO 218+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 206+50 TO 218+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 206+50 TO 218+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 206+50 TO 218+50, SOLID LT & RT

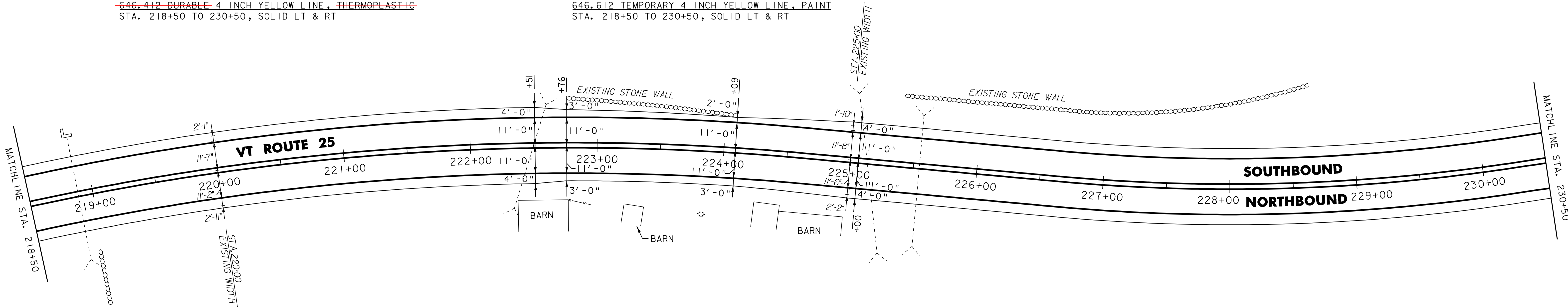


646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 218+50 TO 230+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 218+50 TO 230+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 218+50 TO 230+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 218+50 TO 230+50, SOLID LT & RT



- NOTES:
- 1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 - 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE



PROJECT
LAYOUT
SHEET #30

PROJECT NAME: BRADFORD - ORANGE	
PROJECT NUMBER: STP 2213(1)	
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178130.i	SHEET 47 OF 84

525.60 BRIDGE RAILING REPAIR, TYPE III
STA. 234+42.5 TO 234+67.5, RT
STA. 234+62.5 TO 234+87.5, LT

604.412, 604.415, OR 604.418 REHAB.
DI'S, CB'S OR MH'S, CLASS I, II OR III
STA. 236+34, RT

616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
STA. 240+70 TO 240+86, LT
STA. 242+11 TO 243+00, RT

~~617.10 RELOCATE MAILBOX, SINGLE SUPPORT~~
~~STA. 235+55, RT~~

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
~~STA. 233+31.25 TO 234+31.25, LT~~
~~STA. 233+61.25 TO 234+11.25, RT~~
~~STA. 235+12.5 TO 237+12.5, LT~~
~~236+07.5~~

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 231+36.25 TP 233+61.25, RT

621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
STA. 234+11.25 TO 234+42.5, RT
STA. 234+31.25 TO 234+62.5, LT
STA. 234+67.5 TO 234+92.5, RT
STA. 234+87.5 TO 235+12.5, LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 230+98.75 TO 231+36.25, RT
~~STA. 232+93.75 TO 233+31.25, LT NO MTS~~
~~STA. 234+92.5 TO 235+30, RT NO MTS~~
~~STA. 237+12.5 TO 237+50, LT~~
~~235+96.5 TO 236+34~~

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 230+99 TO 235+13, RT
STA. 234+27 TO 235+52, LT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 230+50 TO 243+00, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 230+50 TO 243+00, SOLID LT & RT

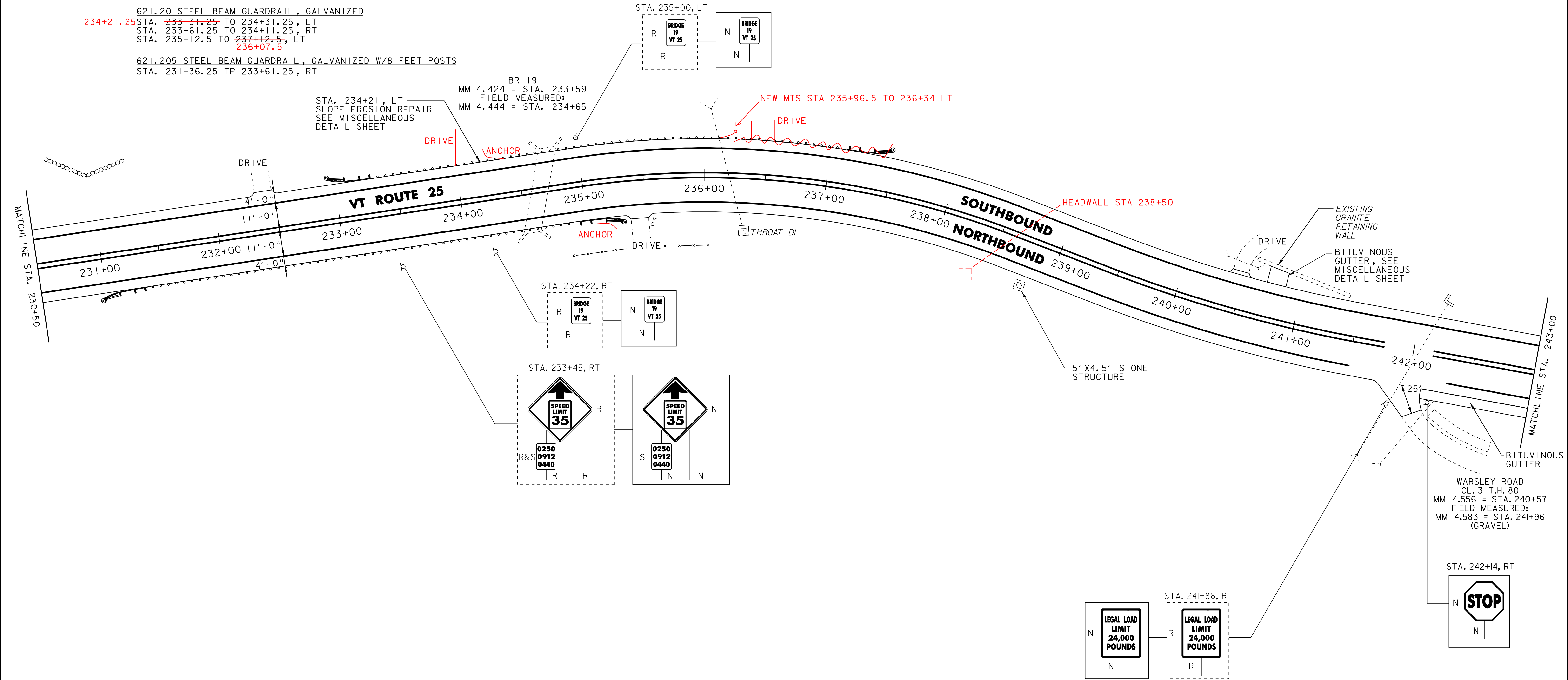
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 230+50 TO 243+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 230+50 TO 243+00, SOLID LT & RT

675.50 REMOVING SIGNS
AS SHOWN - 5

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1

621.60 ANCHOR
234+92 RT
234+28 LT



NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT
LAYOUT
SHEET #31

PROJECT NAME: BRADFORD - ORANGE
PROJECT NUMBER: STP 2213(I)
FILE NAME: p99b178.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p99b178131.i
PLOT DATE: 28-MAY-2010 13:4
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 48 OF 84



616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
STA. 243+00 TO 245+86, RT

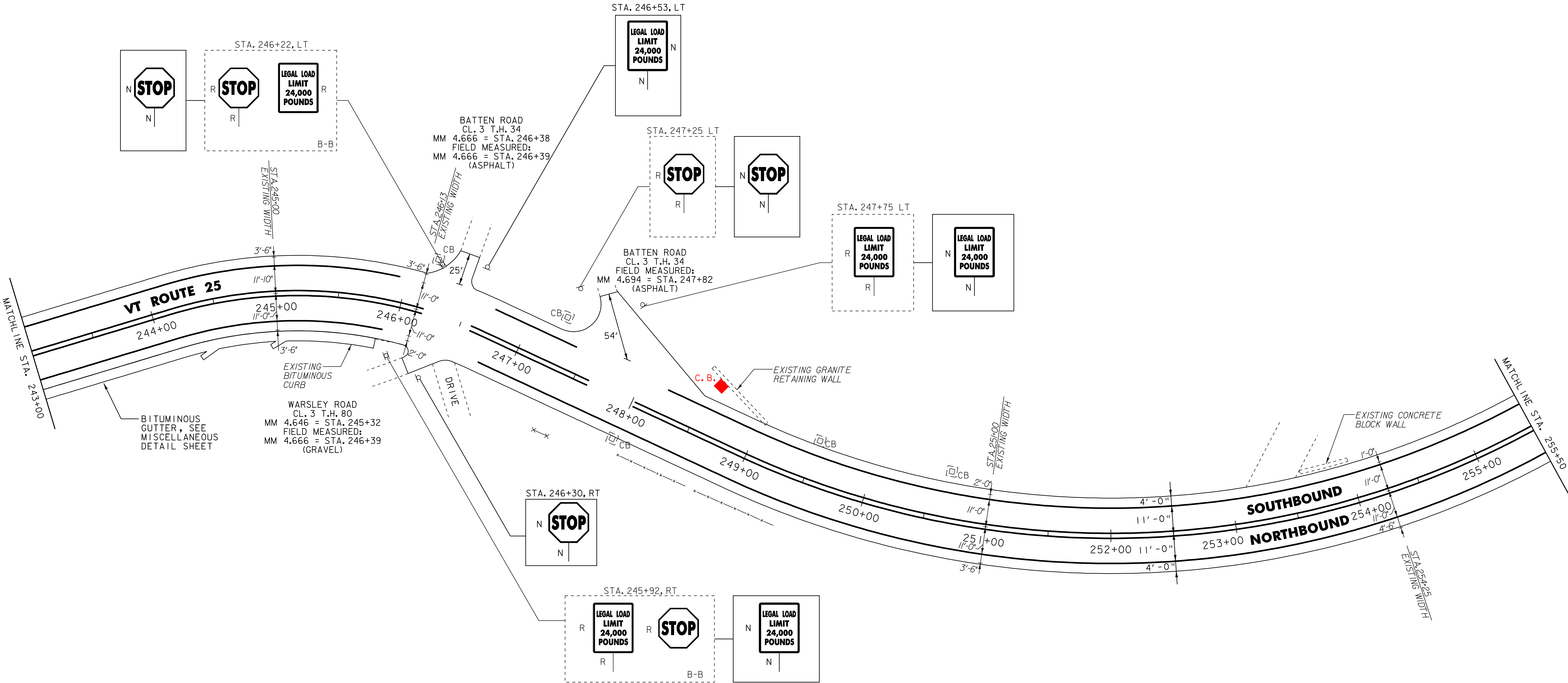
646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 243+00 TO 255+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 243+00 TO 255+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 243+00 TO 255+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 243+00 TO 255+50, SOLID LT & RT

675.50 REMOVING SIGNS
AS SHOWN - 6



NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT
LAYOUT
SHEET #32



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	STP 2213(I)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178132.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	49 OF 84

604.412, 604.415, OR 604.418 REHAB.
DI'S, CB'S OR MH'S, CLASS I, II OR III
STA. 265+88, LT

616.47 BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
STA. 259+88 TO 261+96, RT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED — NO SBGR
STA. 261+02.5 TO 261+15, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
~~STA. 260+65 TO 261+02.5, RT~~ STA 260+71.5 TO 261+09 RT
STA 262+87.5 TO 263+25 RT

621.51 MANUFACTURED TERMINAL SECTION, TANGENT
~~STA. 261+15 TO 261+65, RT~~ STA 261+09 TO 261+59 RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 260+73 TO 261+64, RT
STA 263+25 TO 262+87.5 RT

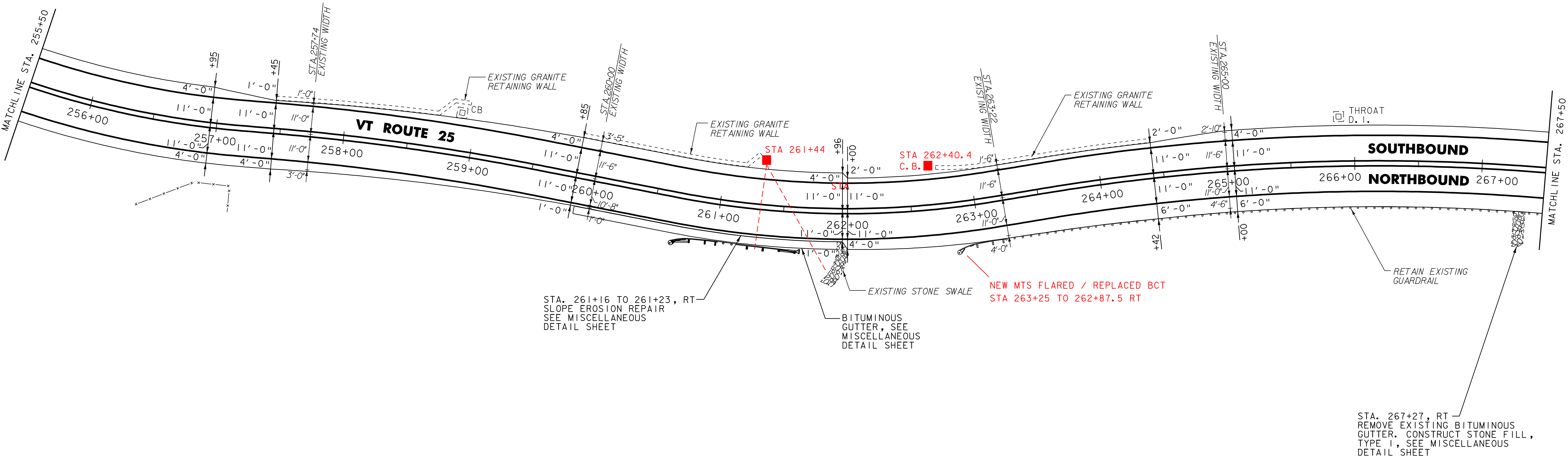
~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 255+50 TO 267+50, SOLID LT & RT

~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 255+50 TO 267+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 255+50 TO 267+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 255+50 TO 267+50, SOLID LT & RT

604.412, 604.415, OR 604.418
STA 261+44 LT



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT
LAYOUT
SHEET #33



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178133.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	50 OF 84

525.60 BRIDGE RAILING REPAIR, TYPE III
~~STA. 271+35.13 TO 271+78.88, RT~~
~~STA. 271+47.63 TO 271+91.38, LT~~
STA. 273+78.63 TO 273+97.38, LT
STA. 273+78.63 TO 273+97.38, RT

~~601.0915 18" GPEP ELIMINATED~~
~~STA. 275+10, RT~~
~~(SEE GUARD RAIL DETAIL SHEET)~~

604.412, 604.415, OR 604.418 REHAB.
DI'S, CB'S OR MH'S, CLASS I, ~~++~~ OR ~~+++~~
STA. 275+30, ~~LT~~ RT
STA. 278+76, RT
268+84.1 LT
269+63.8 LT
270+48.4 LT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 269+82 TO 271+03.88, RT
~~STA. 272+22.63 TO 272+60.13, LT~~ +25
STA. 274+22.38 TO 274+72.38, RT
STA. 274+28.63 TO 278+53.63, LT
25 +50

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. 278+53.63 TO 280+00, LT

621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
STA. 271+03.88 TO 271+35.13, RT
STA. 271+23 TO 271+47.63, LT
STA. 271+78.88 TO 271+94, RT
STA. 271+91.38 TO 272+22.63, LT
STA. 273+55 TO 273+78.63, LT
STA. 273+70 TO 273+78.63, RT
STA. 273+97.38 TO 274+22.38, RT
STA. 273+97.38 TO 274+28.63, LT
271+35.13 TO 271+78.88 RT
271+47.63 TO 271+91.38 LT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. ~~272+60.13 TO 272+97.63, LT~~
STA. 274+72.38 TO 275+09.88, RT

621.60 ANCHOR FOR STEEL BEAM RAIL
STA. 269+82, RT 270+00 RT
STA. 271+23, 5LT 269+50 RT
STA. ~~271+94, RT~~ 273+51.63 RT
STA. 273+55, LT 272+00 RT
STA. ~~273+70, RT~~ 272+50 LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 269+97 TO 271+93, RT
STA. 271+37 TO 272+64, LT
STA. 273+58 TO 280+00, LT
STA. 273+75 TO 274+31, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 267+50 TO 280+00, SOLID LT & RT
STA. 272+23, DOUBLE SOLID RT (T.H. 36)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 267+50 TO 280+00, SOLID LT & RT
STA. 272+23, DOUBLE SOLID RT (T.H. 36)

646.26
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 272+23, RT (T.H. 36)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 272+23, RT - "STOP"

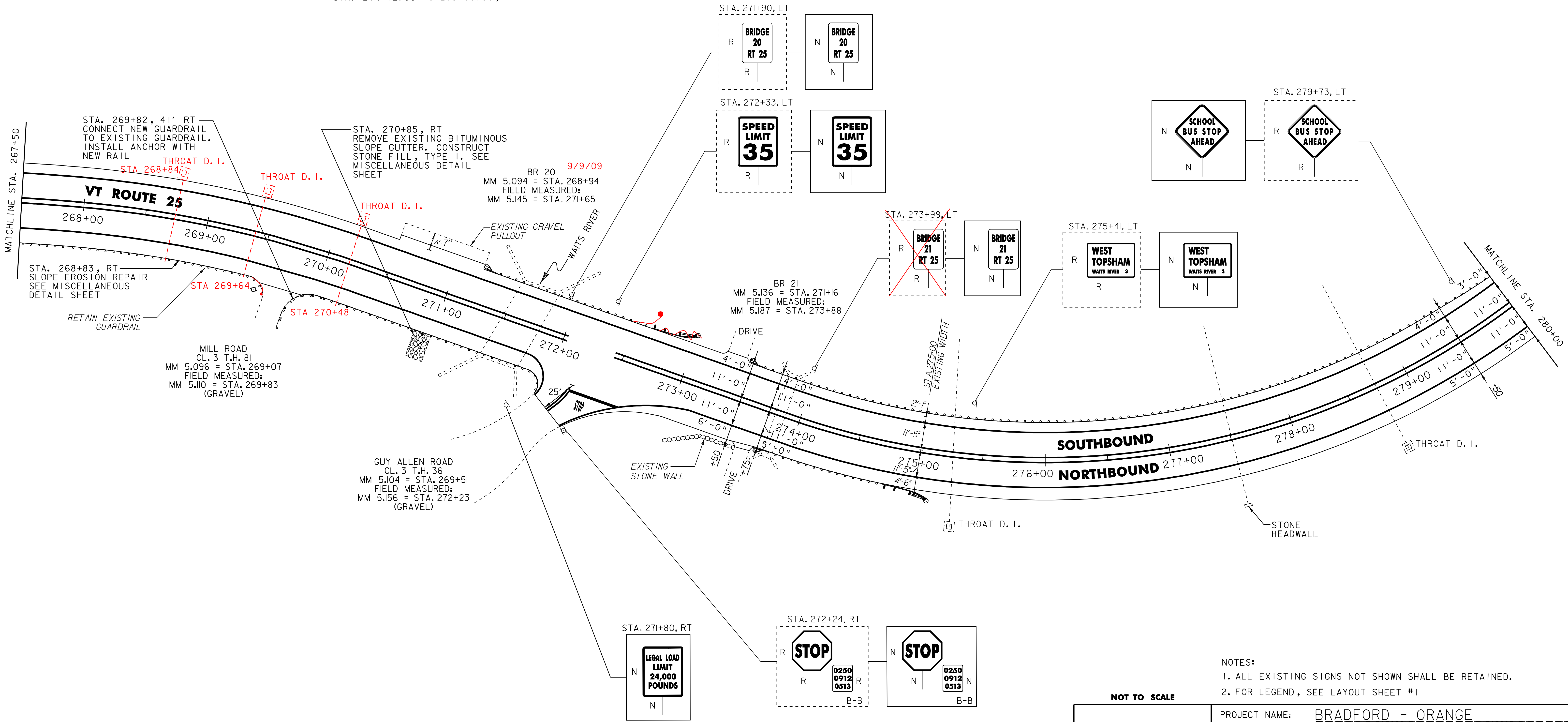
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 267+50 TO 280+00, SOLID LT & RT
STA. 272+23, DOUBLE SOLID RT (T.H. 36)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 267+50 TO 280+00, SOLID LT & RT
STA. 272+23, DOUBLE SOLID RT (T.H. 36)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 272+23, RT (T.H. 36)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~STA. 272+23, RT - "STOP"~~

675.50 REMOVING SIGNS
AS SHOWN - 7



NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT LAYOUT SHEET #34	PROJECT NAME: BRADFORD - ORANGE	
	PROJECT NUMBER: STP 2213(I)	
	FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
	DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178134.i		SHEET 51 OF 84



604.412, 604.415, OR 604.418 REHAB.
DI'S, CB'S OR MH'S, CLASS I, ~~++ OR +++~~
STA. 281+25, RT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. ~~281+83~~ TO 292+00, LT
280+00

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
~~STA. 280+00 TO 281+83, LT~~

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 280+00 TO 292+00, LT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 280+00 TO 292+00, SOLID LT & RT
STA. 291+19, DOUBLE SOLID RT (T.H. 25)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 280+00 TO 292+00, SOLID LT & RT
STA. 291+19, DOUBLE SOLID RT (T.H. 25)

646.26
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 291+19, RT (T.H. 25)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 291+19, RT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 280+00 TO 292+00, SOLID LT & RT
STA. 291+19, DOUBLE SOLID RT (T.H. 25)

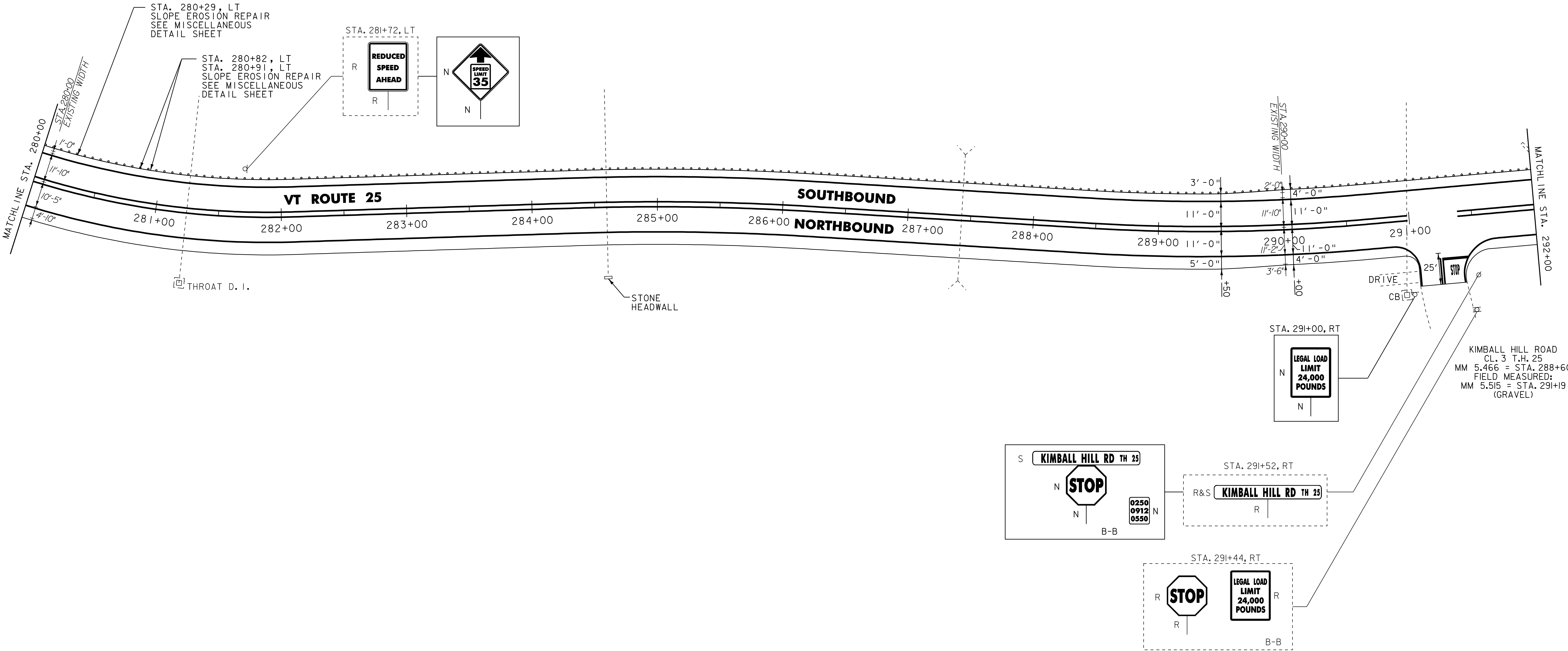
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 280+00 TO 292+00, SOLID LT & RT
STA. 291+19, DOUBLE SOLID RT (T.H. 25)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 291+19, RT (T.H. 25)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~STA. 291+19, RT - "STOP"~~

675.50 REMOVING SIGNS
AS SHOWN - 4

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 1



NOT TO SCALE

PROJECT
LAYOUT
SHEET #35

PROJECT NAME: BRADFORD - ORANGE
PROJECT NUMBER: STP 2213(1)

FILE NAME: p99b178.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p99b178135.i
PLOT DATE: 28-MAY-2010 13:4
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 52 OF 84



525.60 BRIDGE RAILING REPAIR, TYPE III
STA. 300+77 TO 301+27, LT
STA. 301+06 TO 301+56, RT

604.412, 604.415, OR 604.418 REHAB.
DI'S, CB'S OR MH'S, CLASS I, ~~++~~ OR ~~+++~~
STA. 293+55, RT
STA. 298+50, RT

616.35 TREATED TIMBER CURB
~~STA. 300+30 TO 303+00, RT~~

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 292+00 TO 294+16.13, LT
~~STA. 298+64.5 TO 300+52, LT~~
STA. 300+14 TO 300+81, RT
STA. 301+52 TO 302+03, LT
STA. 301+81 TO 303+50, RT

621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
STA. 300+52 TO 300+77, LT
STA. 300+81 TO 301+06, RT
STA. 301+27 TO 301+52, LT
STA. 301+56 TO 301+81, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 294+16.13 TO 294+53.63, LT
STA. 298+27 TO 298+64.5, LT

621.60 ANCHOR FOR STEEL BEAM RAIL
STA. ~~300+14~~, RT ~~300+04~~
STA. ~~302+03~~, LT ~~302+16.5~~

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 292+00 TO 294+58, LT
STA. 298+25 TO 301+91, LT
STA. 300+15 TO 303+50, RT

STA 300+87.5 TO 300+00 RT
STA 301+50 TO 301+75 RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 292+00 TO 303+50, SOLID LT & RT
STA. 299+52, DOUBLE SOLID RT (T.H. 24)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 292+00 TO 303+50, SOLID LT & RT
STA. 299+52, DOUBLE SOLID RT (T.H. 24)

646.26
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 299+52, RT (T.H. 24)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 299+52, RT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 292+00 TO 303+50, SOLID LT & RT
STA. 299+52, DOUBLE SOLID RT (T.H. 24)

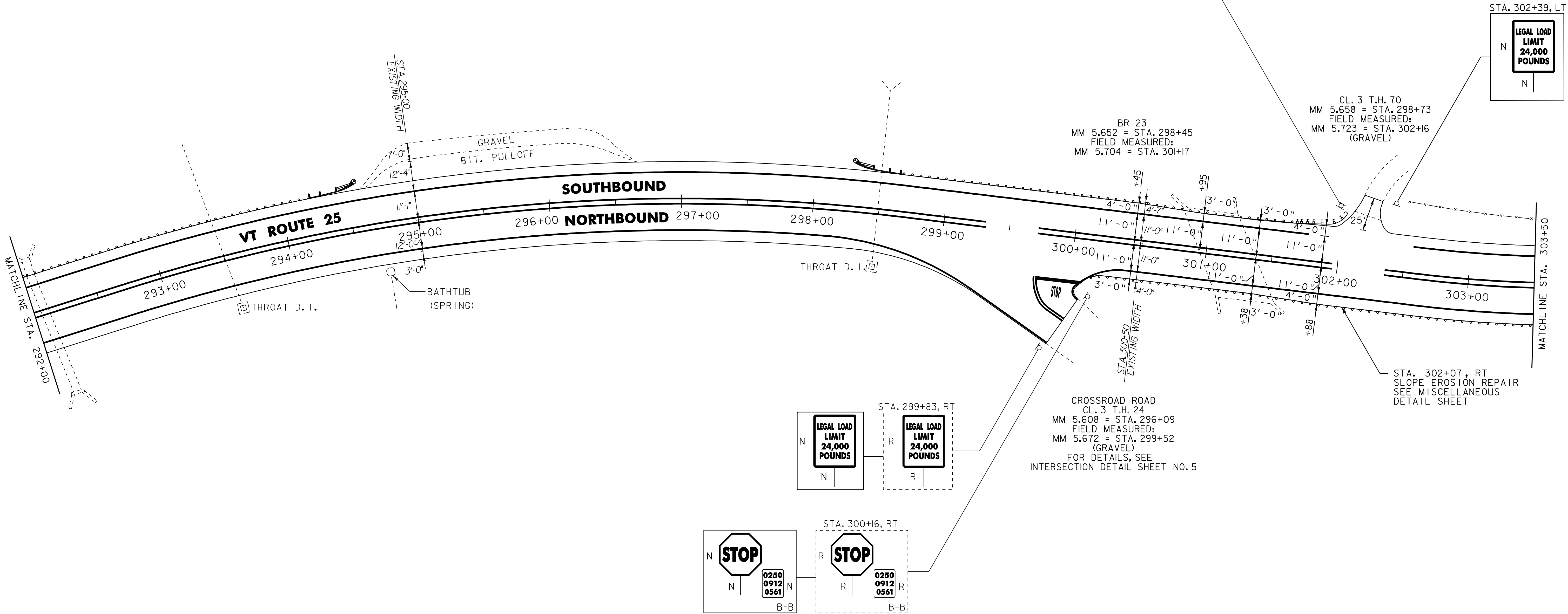
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 292+00 TO 303+50, SOLID LT & RT
STA. 299+52, DOUBLE SOLID RT (T.H. 24)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 299+52, RT (T.H. 24)

~~646.692 TEMPORARY LETTER OR SYMBOL, PAINT~~
~~STA. 299+52, RT - "STOP"~~

675.50 REMOVING SIGNS
AS SHOWN - 6

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/ 8' POSTS
STA 298+64 TO 300+52 LT



NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
2. FOR LEGEND, SEE LAYOUT SHEET #1



NOT TO SCALE

PROJECT
LAYOUT
SHEET #36

PROJECT NAME: BRADFORD - ORANGE	
PROJECT NUMBER: STP 2213(I)	
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178136.i	SHEET 53 OF 84

604.412, 604.415, OR 604.418 REHAB.
DI'S, CB'S OR MH'S, CLASS I, II OR III
STA. 307+02, LT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 303+50 TO 305+18.5, RT **310+00**
~~STA. 308+56 TO 310+43.5, RT~~
STA. **310+85** TO 315+50, RT

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
STA. ~~305+18.5~~ TO ~~308+56~~, RT
310+00 310+64

621.60 ANCHOR FOR STEEL BEAM
STA. 310+43.5, RT
STA. 310+85, RT

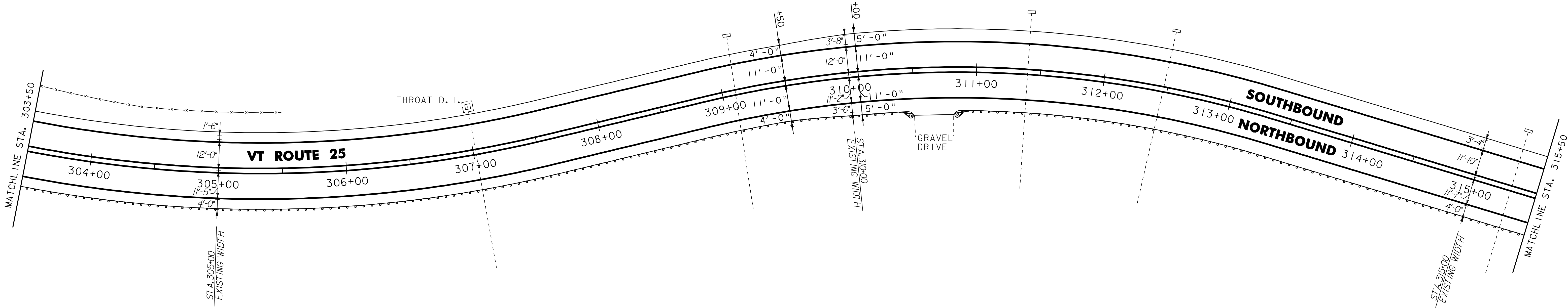
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 303+50 TO 310+49, RT
STA. 310+83 TO 315+50, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 303+50 TO 315+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 303+50 TO 315+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 303+50 TO 315+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 303+50 TO 315+50, SOLID LT & RT



- NOTES:
- ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 - FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE



**PROJECT
LAYOUT
SHEET #37**

PROJECT NAME: <u>BRADFORD - ORANGE</u>	
PROJECT NUMBER: <u>SIP 2213(I)</u>	
FILE NAME: <u>p99b178.dgn</u>	PLOT DATE: <u>28-MAY-2010 13:4</u>
PROJECT LEADER: <u>JLL</u>	DRAWN BY: <u>SIANTEC</u>
DESIGNED BY: <u>SIANTEC</u>	CHECKED BY: <u>JLL</u>
IPARM FILE: p99b178137.i	
SHEET <u>54</u> OF <u>84</u>	

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
STA. 315+50 TO 319+97.5, RT

621.60 ANCHOR FOR STEEL BEAM RAIL
STA. 319+97.5, RT
319+00 RT

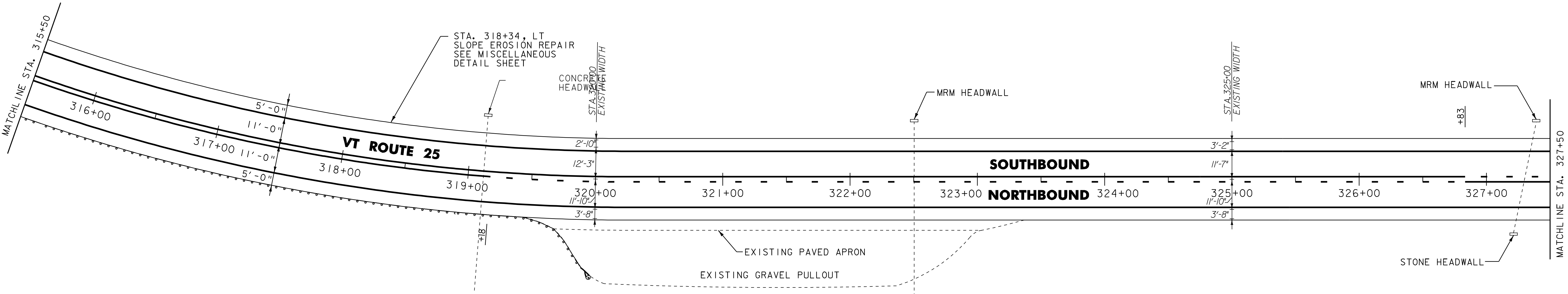
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA. 315+50 TO 319+28, RT

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 315+50 TO 327+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 315+50 TO 319+18, SOLID LT & RT
STA. 319+18 TO 326+83, SOLID LT, DASHED RT
STA. 326+83 TO 327+50, DASHED LT, SOLID RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 315+50 TO 327+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 315+50 TO 319+18, SOLID LT & RT
STA. 219+18 TO 326+83, SOLID LT, DASHED RT
STA. 326+83 TO 327+50, DASHED LT, SOLID RT

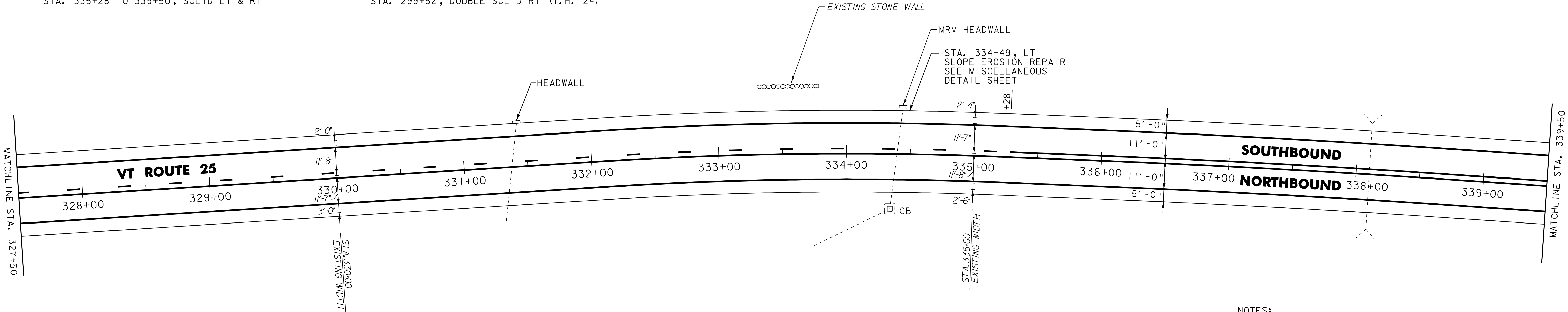


646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 327+50 TO 339+50, SOLID LT & RT

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 327+50 TO 335+28, DASHED LT, SOLID RT
STA. 335+28 TO 339+50, SOLID LT & RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 327+50 TO 339+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 292+00 TO 303+50, SOLID LT & RT
STA. 299+52, DOUBLE SOLID RT (T.H. 24)



- NOTES:
1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

PROJECT
LAYOUT
SHEET #38



PROJECT NAME: BRADFORD - ORANGE	
PROJECT NUMBER: S1P_2213(1)	
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178138.i	SHEET 55 OF 84

604.412, 604.415, OR 604.418 REHAB.
DI'S, CB'S OR MH'S, CLASS I, II OR III
ORANGE STA. 0+03, LT **NO WORK WAS DONE**

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
ORANGE STA. ~~1+30 TO 7+00~~, RT 2+80 TO 3+12.5
ORANGE STA 3+35.5 TO 7+00 RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
ORANGE STA. 0+92.5 TO 1+30, RT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
ORANGE STA. 3+36 TO 7+00, RT

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
TOPSHAM STA. 339+50 TO ORANGE STA. 7+00, SOLID LT & RT

~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
TOPSHAM STA. 339+50 TO ORANGE STA. 7+00, SOLID LT & RT

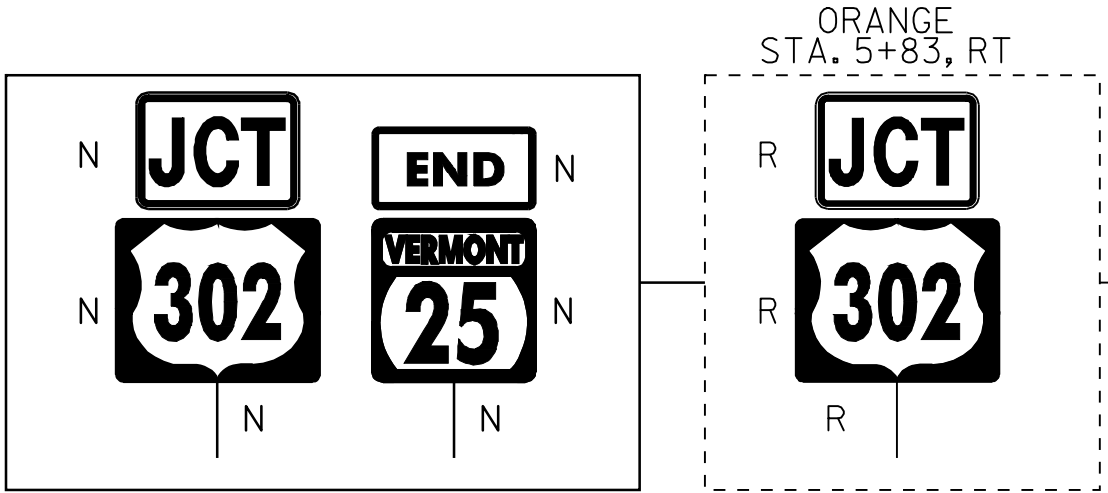
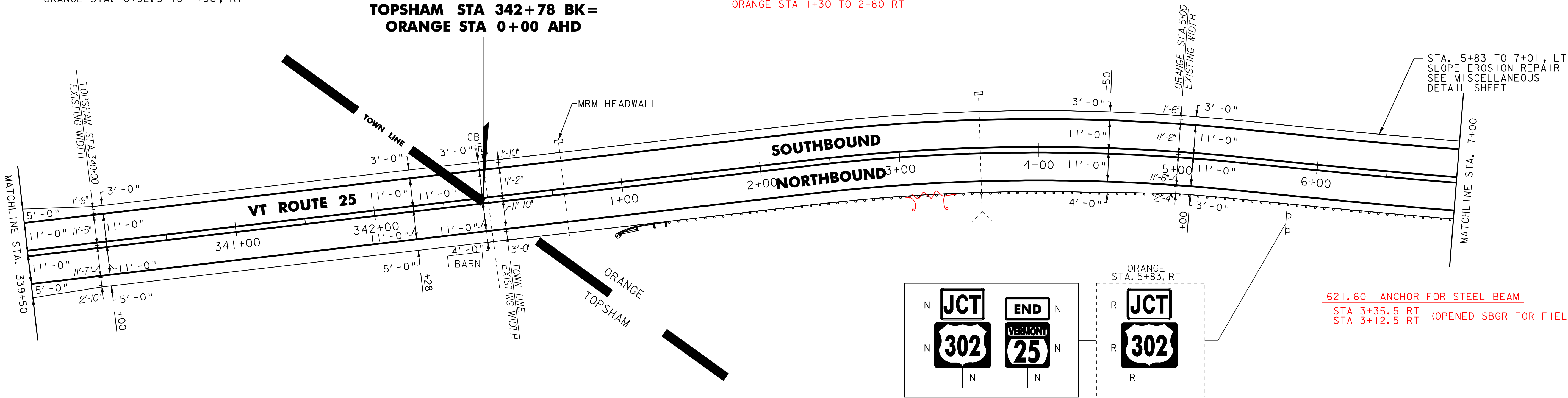
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
TOPSHAM STA. 339+50 TO ORANGE STA. 7+00, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
TOPSHAM STA. 339+50 TO ORANGE STA. 7+00, SOLID LT & RT

675.50 REMOVING SIGNS
AS SHOWN - 2

621.205 STEEL BEAM GUARDRAIL, GALVANIZED W/ 8' POSTS
ORANGE STA 1+30 TO 2+80 RT

**TOPSHAM STA 342+78 BK=
ORANGE STA 0+00 AHD**



621.60 ANCHOR FOR STEEL BEAM
STA 3+35.5 RT
STA 3+12.5 RT (OPENED SBGR FOR FIELD DRIVE)

621.60 ANCHOR FOR STEEL BEAM
14+50 LT (REPLACED BCT)

621.80 REMOVAL & DISPOSAL OF GUARDRAIL
14+50 TO 14+87.5 RT
14+50 TO 14+75 LT

621.20 STEEL BEAM GUARDRAIL, GALVANIZED
ORANGE STA. 7+00 TO 8+80, RT

621.50 MANUFACTURED TERMINAL SECTION, FLARED
STA. 8+80 TO 9+17.5, RT
STA 13+84 TO 14+21.5 RT (REPLACED BCT)

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
ORANGE STA. 7+00 TO 7+33, RT

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 7+00 TO 14+50, SOLID LT & RT

~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 7+00 TO 14+50, SOLID LT & RT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 8+03, RT - "STOP"
STA. 8+43, RT - "AHEAD"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 7+00 TO 14+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 7+00 TO 14+50, SOLID LT & RT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
STA. 8+03, RT - "STOP"
STA. 8+43, RT - "AHEAD"

675.50 REMOVING SIGNS
AS SHOWN - 4

- NOTES:
- ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.
 - FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE

**PROJECT
LAYOUT
SHEET #39**



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP_2213(I)
FILE NAME:	p99b178.dgn
PLOT DATE:	28-MAY-2010 13:4
PROJECT LEADER:	JLL
DRAWN BY:	STANTEC
DESIGNED BY:	STANTEC
CHECKED BY:	JLL
IPARM FILE:	p99b178139.i
SHEET	56 OF 84

646.20 4 INCH WHITE LINE
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
VT ROUTE 25 STA. 14+50 TO STA. 14+94, SOLID LT & RT

646.21 4 INCH YELLOW LINE
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
VT ROUTE 25 STA. 14+50 TO STA. 15+20, DOUBLE SOLID RT

646.26 8 INCH WHITE LINE
~~646.442 DURABLE 8 INCH WHITE LINE, THERMOPLASTIC~~
STA. 15+13 TO STA. 15+76, RT (TRIANGULAR ISLAND & DIAGONALS)

646.26 24 INCH STOP BAR
~~646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC~~
STA. 15+00, RT

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
STA. 15+02, RT - "STOP"

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
VT ROUTE 25 STA. 14+50 TO STA. 14+94, SOLID LT & RT

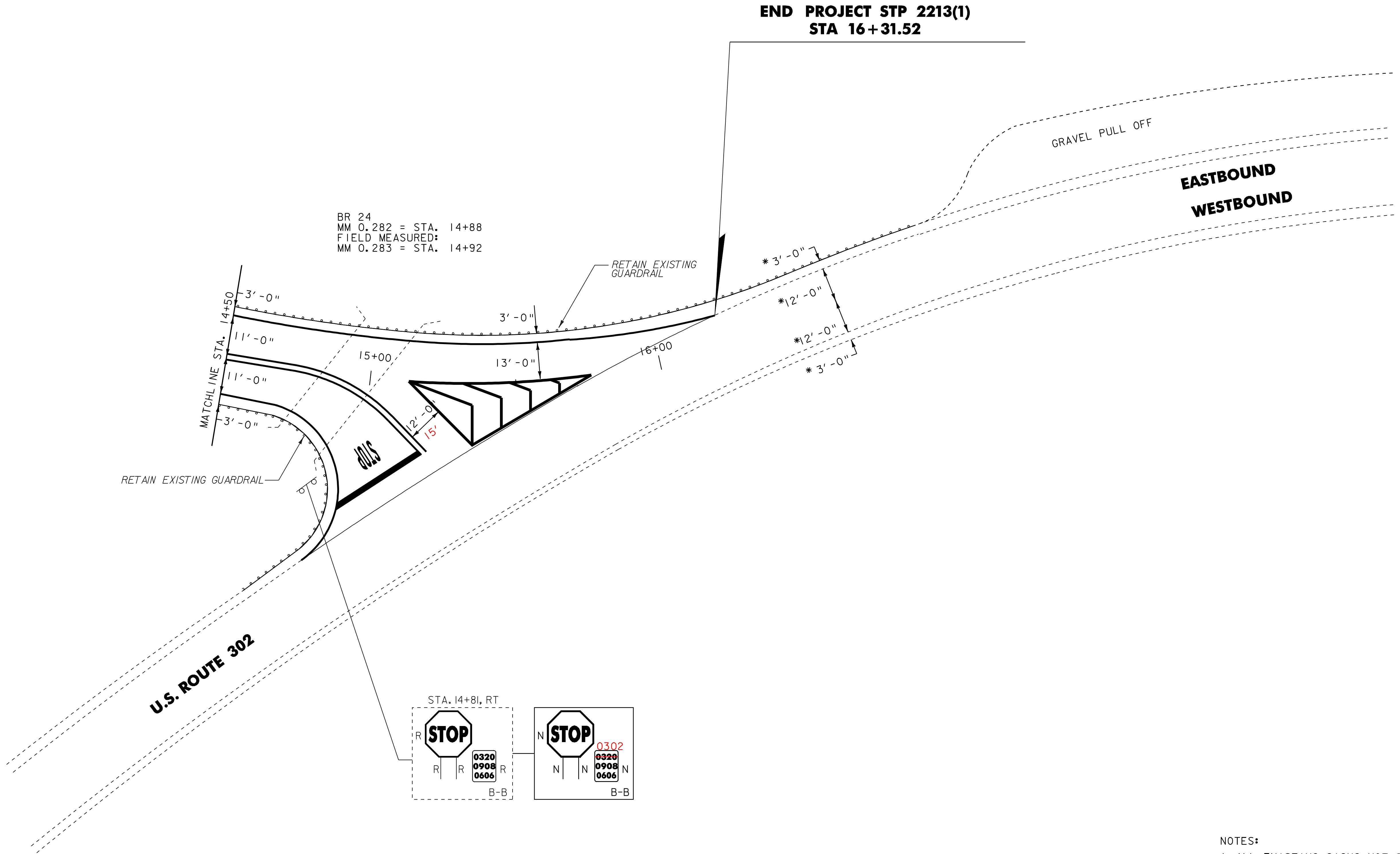
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
VT ROUTE 25 STA. 14+50 TO STA. 15+20, DOUBLE SOLID RT

646.642 TEMPORARY 8 INCH WHITE LINE, PAINT
STA. 15+13 TO STA. 15+76, RT (TRIANGULAR ISLAND & DIAGONALS)

646.682 TEMPORARY 24 INCH STOP BAR, PAINT
STA. 15+00, RT

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
STA. 15+02, RT - "STOP"

675.50 REMOVING SIGNS
AS SHOWN - 2



NOTES:

1. ALL EXISTING SIGNS NOT SHOWN SHALL BE RETAINED.

2. FOR LEGEND, SEE LAYOUT SHEET #1

NOT TO SCALE



**PROJECT
LAYOUT
SHEET #40**

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	STP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178140.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	57 OF 84

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
CORINTH:
STA. 70+24 DOUBLE SOLID RT (T.H. I)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
CORINTH:
STA. 70+24 DOUBLE SOLID RT (T.H. I)

646.26
~~646.482 DURABLE 24" STOP BAR, THERMOPLASTIC~~
CORINTH:
STA. 70+25 RT (T.H. I)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
CORINTH:
STA. 70+40 RT - "STOP"

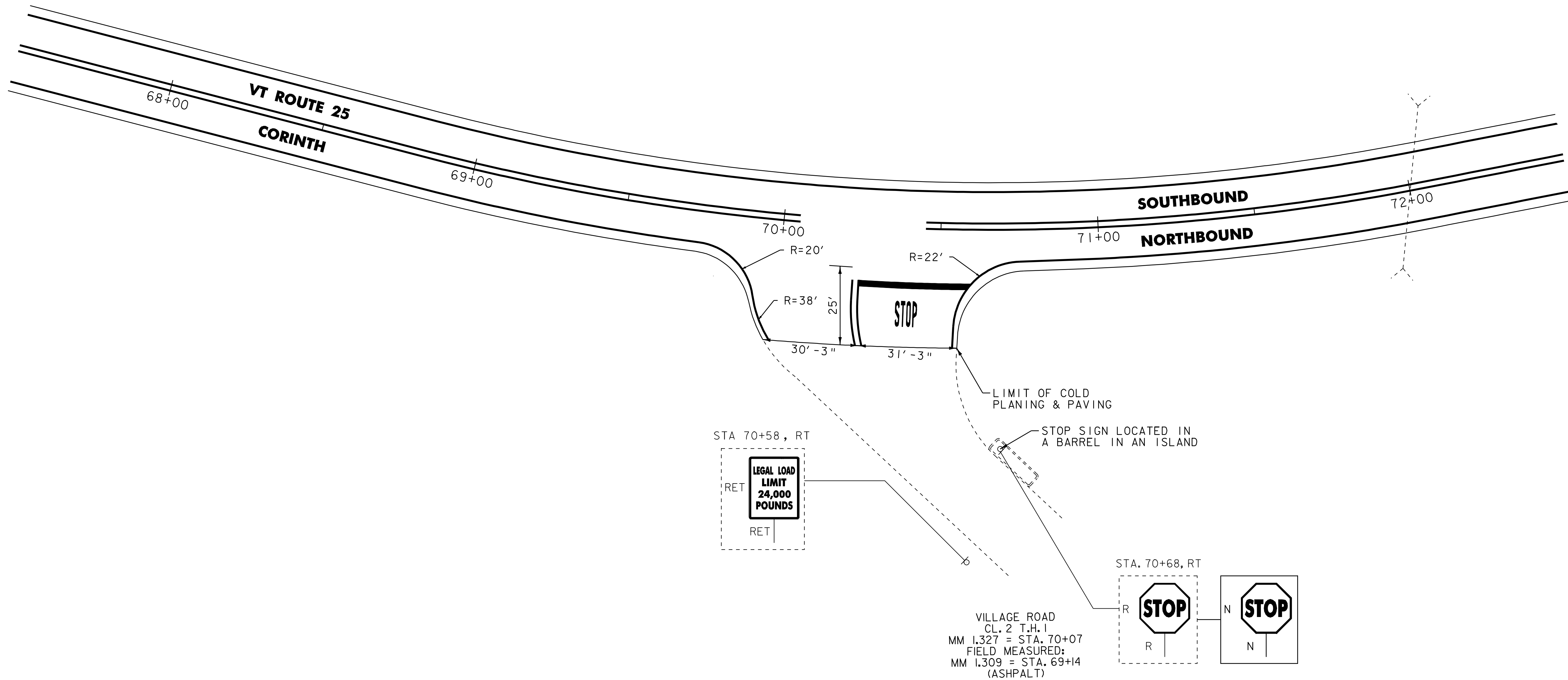
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
CORINTH:
STA. 70+24 DOUBLE SOLID RT (T.H. I)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
CORINTH:
STA. 70+24 DOUBLE SOLID RT (T.H. I)

646.682 TEMPORARY 24" STOP BAR, PAINT
CORINTH:
STA. 70+25 RT (T.H. I)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
CORINTH:
STA. 70+40 RT - "STOP"

675.50 REMOVING SIGNS
AS SHOWN - I



T.H.1 - VILLAGE ROAD
CORINTH MM 1.309 = STA. 69+14

NOTE:

1. PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT BACK FROM VT ROUTE 25 EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

**INTERSECTION
DETAIL SHEET
NO. 1**

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = -----
NEW = -----



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(I)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	SIANTEC
IPARM FILE:	z99b178int01.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	SIANTEC
CHECKED BY:	JLL
SHEET	58 OF 84

~~621.20 STEEL BEAM GUARDRAIL, GALVANIZED~~
STA. 74+50 TO 76+65, RT

~~621.50 MANUFACTURED TERMINAL SECTION, FLARED~~
STA. 76+65 TO 77+02.5, RT
(SEE DRAINAGE AT M.T.S. DETAIL SHEET)

~~621.81 REMOVAL AND DISPOSAL OF GUIDE POSTS~~
STA. 74+50 TO 76+59,RT

~~646.20~~
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
STA. 74+50 TO 86+50, SOLID LT & RT

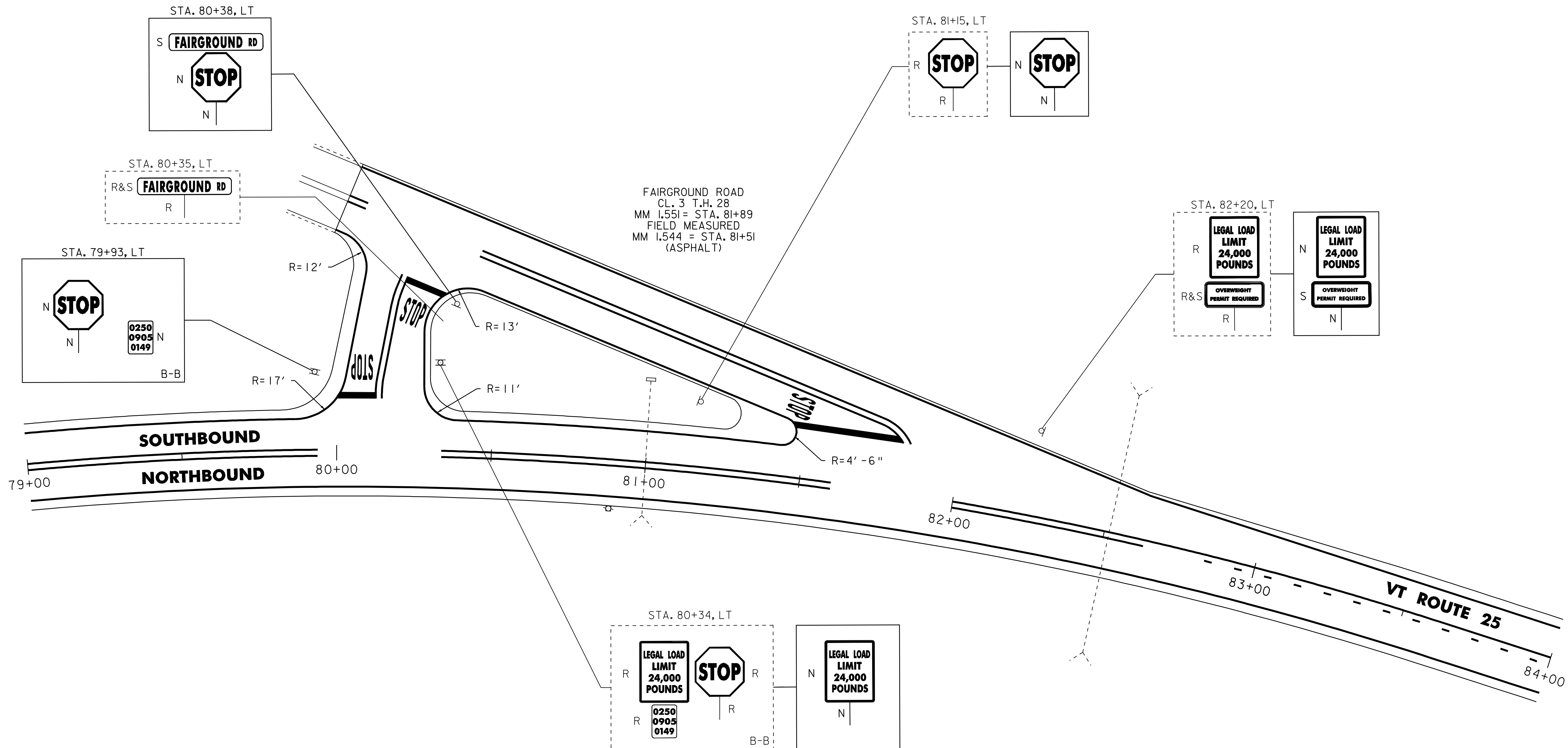
~~646.21~~
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
STA. 74+50 TO 82+63, SOLID LT & RT
STA. 82+63 TO 86+50, SOLID LT, DASHED RT

646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
STA. 74+50 TO 86+50, SOLID LT & RT

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
STA. 74+50 TO 82+63, SOLID LT & RT
STA. 82+63 TO 86+50, SOLID LT, DASHED RT

675.50 REMOVING SIGNS
AS SHOWN - 7

675.60 ERECTING SALVAGED SIGNS
AS SHOWN - 2



T.H.28 - FAIRGROUND ROAD
CORINTH MM 1.544 = STA. 81+51

NOTE:

1. PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT. BACK FROM VT ROUTE 25 EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

**INTERSECTION
DETAIL SHEET
NO. 2**

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = -----
NEW = -----



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	z99b178int02.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	59 OF 84

646.20
~~646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC~~
CORINTH:
STA. 114+00 DOUBLE SOLID LT (T.H. 4)

646.21
~~646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC~~
CORINTH:
STA. 113+62 DOUBLE SOLID LT (T.H. 4)

646.26
~~646.482 DURABLE 24" STOP BAR, THERMOPLASTIC~~
CORINTH:
STA. 113+62 LT (T.H. 4)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
CORINTH:
STA. 113+62 LT - "STOP"

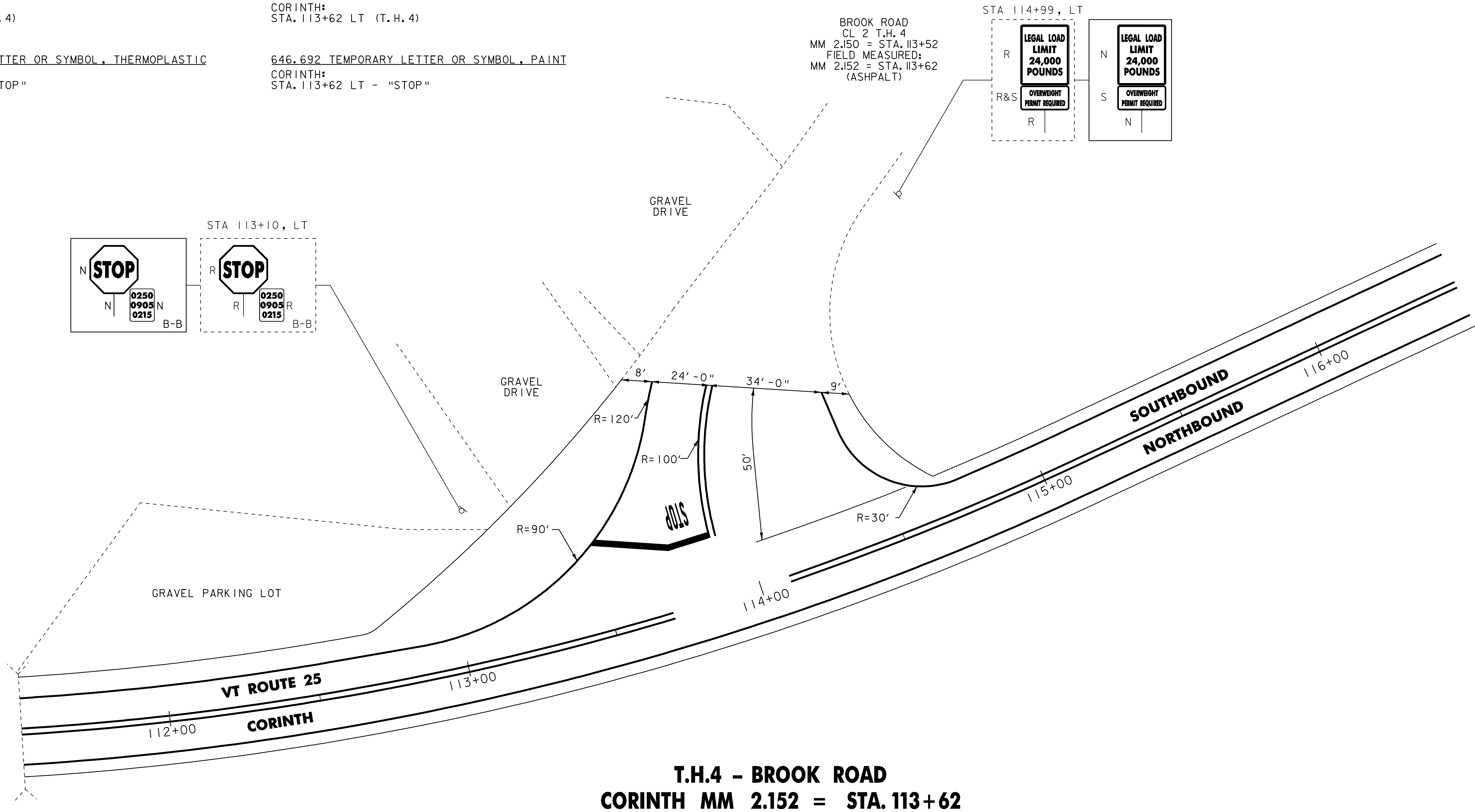
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
CORINTH:
STA. 114+00 DOUBLE SOLID LT (T.H. 4)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
CORINTH:
STA. 113+62 DOUBLE SOLID LT (T.H. 4)

646.682 TEMPORARY 24" STOP BAR, PAINT
CORINTH:
STA. 113+62 LT (T.H. 4)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
CORINTH:
STA. 113+62 LT - "STOP"

675.50 REMOVING SIGNS
AS SHOWN - 4



NOTE:
1. PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT BACK FROM VT ROUTE 25 EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

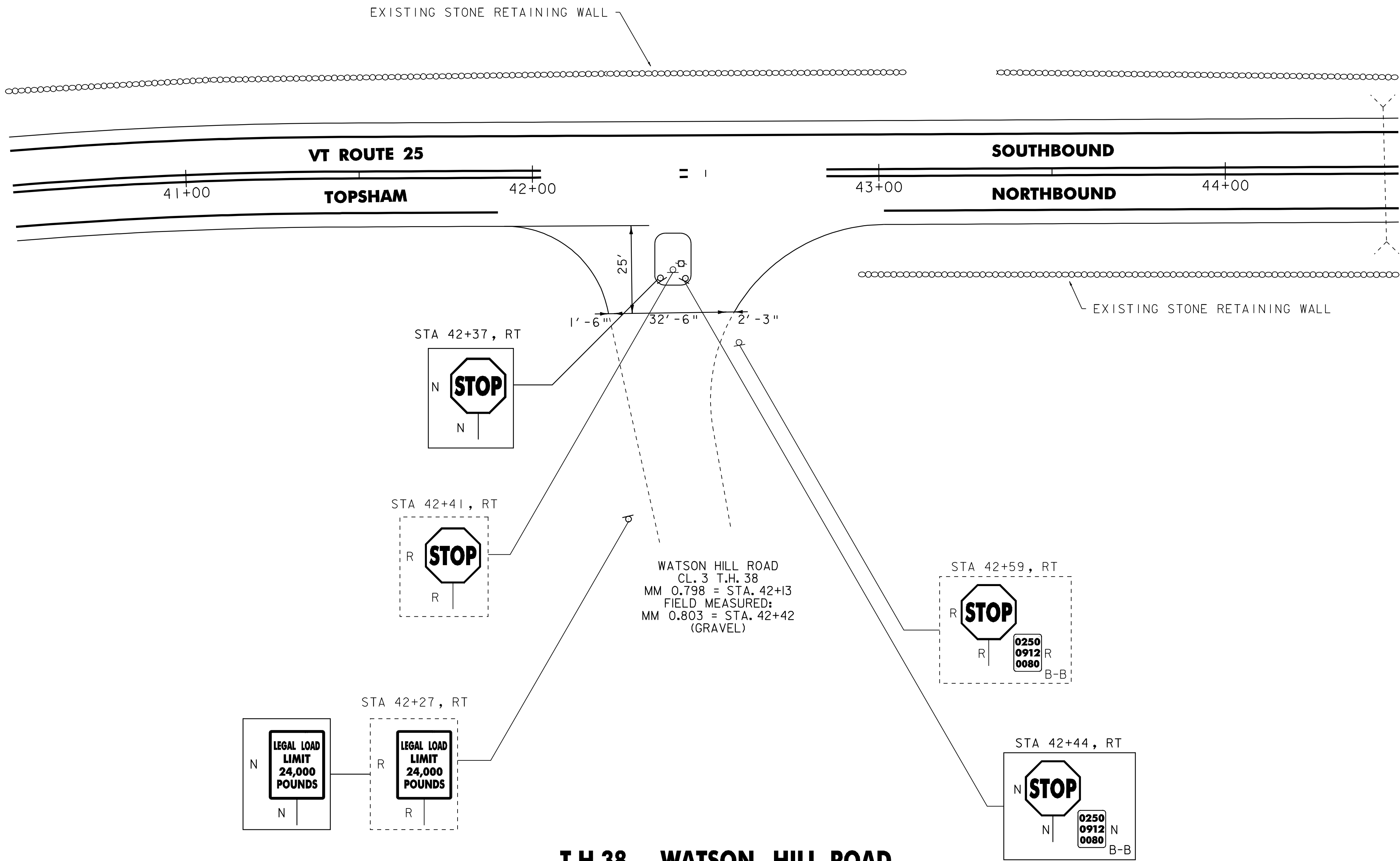
SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = -----
NEW = -----



NOT TO SCALE

INTERSECTION DETAIL SHEET NO. 3

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	STP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	z99b178int03.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	60 OF 84



T.H.38 - WATSON HILL ROAD
TOPSHAM MM 0.803 = STA. 42+42

NOTE:
1. PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT. BACK FROM VT ROUTE 25 EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = -----
NEW = -----



**INTERSECTION
DETAIL SHEET
NO. 4**

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	z99b178int04.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	61 OF 84

646.20
~~646.402 DURABLE~~ 4 INCH WHITE LINE, ~~THERMOPLASTIC~~
TOPSHAM:
STA. 299+52 DOUBLE SOLID RT (T.H. 24)

646.21
~~646.412 DURABLE~~ 4 INCH YELLOW LINE, ~~THERMOPLASTIC~~
TOPSHAM:
STA. 299+52 DOUBLE SOLID RT (T.H. 24)

646.26
~~646.482 DURABLE~~ 24" STOP BAR, ~~THERMOPLASTIC~~
TOPSHAM:
STA. 299+52 RT (T.H. 24)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
TOPSHAM:
STA. 299+52 RT - "STOP"

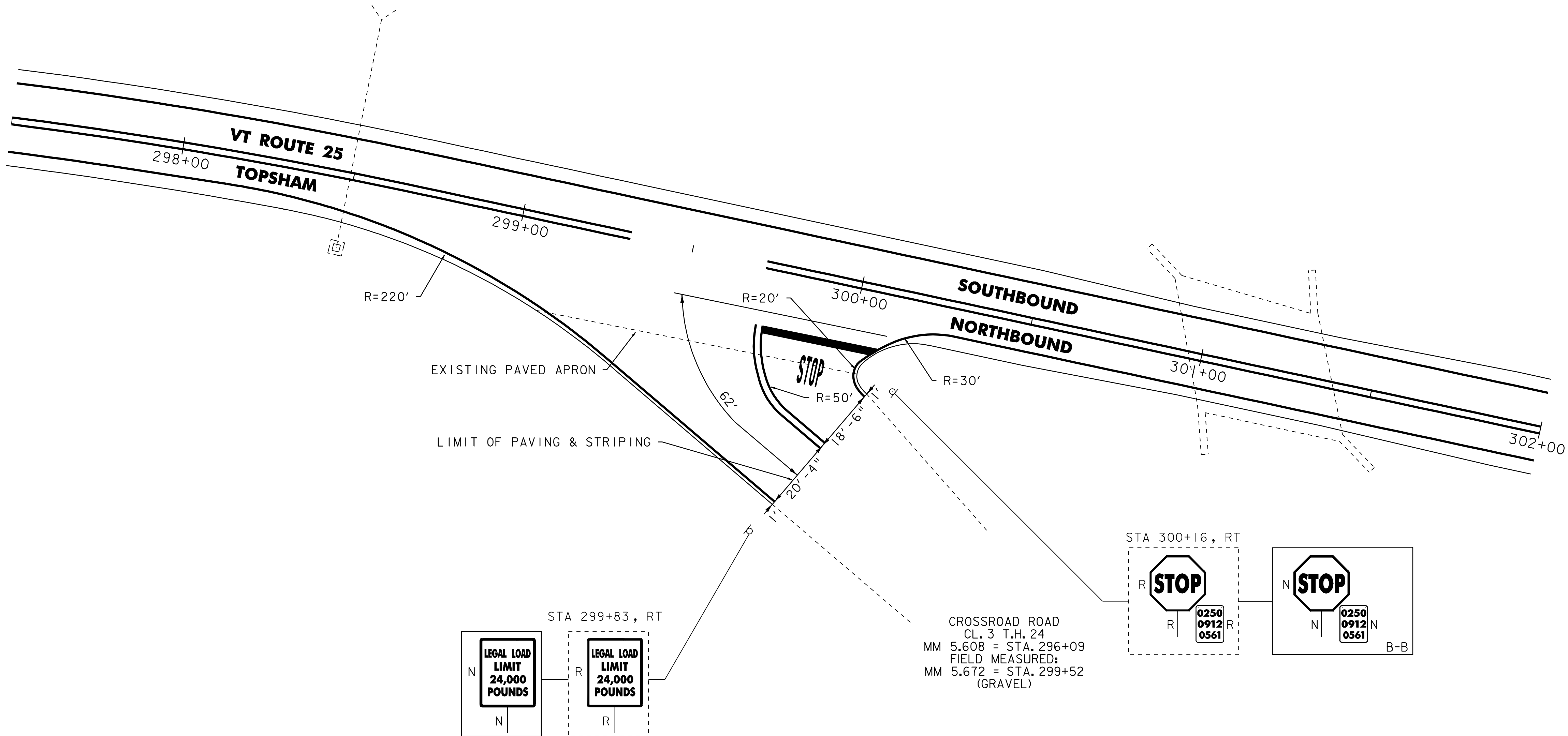
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
TOPSHAM:
STA. 299+52 DOUBLE SOLID RT (T.H. 24)

646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
TOPSHAM:
STA. 299+52 DOUBLE SOLID RT (T.H. 24)

646.682 TEMPORARY 24" STOP BAR, PAINT
TOPSHAM:
STA. 299+52 RT (T.H. 24)

646.692 TEMPORARY LETTER OR SYMBOL, PAINT
TOPSHAM:
STA. 299+52 RT - "STOP"

675.50 REMOVING SIGNS
AS SHOWN - 3



T.H.24 - CROSSROAD ROAD
TOPSHAM MM 5.672 = STA. 299+52

NOTE:
1. PAVING LIMIT ON ALL TOWN HIGHWAYS SHALL BE MEASURED 25 FT. BACK FROM VT ROUTE 25 EDGE OF SHOULDER UNLESS DENOTED OTHERWISE ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.

NOT TO SCALE

SIGN LEGEND
R = REMOVE
S = SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
EXISTING = -----
NEW = _____



**INTERSECTION
DETAIL SHEET
NO. 5**

PROJECT NAME:	BRADFORD - ORANGE		
PROJECT NUMBER:	SIP 2213(I)		
FILE NAME:	p99b178.dgn	PLOT DATE:	28-MAY-2010 13:4
PROJECT LEADER:	JLL	DRAWN BY:	SIANTEC
DESIGNED BY:	SIANTEC	CHECKED BY:	JLL
IPARM FILE:	z99b178int05.i	SHEET	62 OF 84

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

TRAFFIC SIGN SUMMARY SHEET 04

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST RE TAIN S ALV AGE	NO. OF POSTS	NEW SIGN POSTS																	RE QU I R E D S I G N M E D	REMARKS	SIGN DETAIL					
											FLANGED CHANNEL			SQUARE STEEL (in)				TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)				W-SHAPE STEEL					DETAIL ON SHEET NUMBER	STD. SHEET NUMBER				
		E A	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN	SALV TIS			lb/ft	1.75	2.0	2.5	A N C H O R	S L E E V E	3.0	4.0	4.0 MOD	FOUND- ATION	3.0	3.5	4.0	5.0	FTG. SIZE		WEIGHT					POST SIZE			
												1.12	2.0	3.0			1.88	2.42	3.35		1.3	1.7	1.7	7.6	9.0	10.8							14.6	24"	30"
TOPSHAM (CONT.) 73+11, LT		I	24	30	5.00					I					X		X												SIGN ID CODE VR-017		E-141				
73+18, RT	 	I	30	30	6.25					I					X		X												SIGN ID CODE RI-1		E-143				
		I	6	10	0.42																							SIGN ID CODE VD-700 MOUNTED BACK TO BACK AND BELOW STOP SIGN		E-138					
100+84, RT		I	24	30	5.00					I					X		X												SIGN ID CODE VR-017		E-141				
101+12, RT		I	30	30	6.25					I					X		X												SIGN ID CODE RI-1		E-143				
102+00, LT		I	30	30	6.25					I					X		X												SIGN ID CODE WI-2R		E-151				
143+25, RT		I	24	30	5.00					I					X		X												SIGN ID CODE VR-017		E-141				
143+68, RT	 	I	30	30	6.25					I					X		X												SIGN ID CODE RI-1		E-143				
		I	6	10	0.42																							SIGN ID CODE VD-700 MOUNTED BACK TO BACK AND BELOW STOP SIGN		E-138					
144+96, RT		I	6	8	0.33					I				X			X												SIGN ID CODE VD-701		E-134				
148+42, LT		I	6	10	0.42					I				X			X												SIGN ID CODE VD-700		E-138				
162+32, RT		I	72	12	6.00					2					X		X												SIGN ID CODE DI-1		E-123				
168+03, LT		I	30	30	6.25					I					X		X												SIGN ID CODE RI-1		E-143				
168+80, LT		I	24	30	5.00					I					X		X												SIGN ID CODE VR-017		E-141				
171+00, RT	 	I	30	30	6.25					I					X		X												SIGN ID CODE WI-2R		E-151				
		I	18	18	2.25																							SIGN ID CODE WI3-1		E-155					
172+50, LT	 	I	30	30	6.25					I					X		X												SIGN ID CODE RI-1		E-143				
		I	6	10	0.42																							SIGN ID CODE VD-700 MOUNTED BACK TO BACK AND BELOW STOP SIGN		E-138					
172+80, LT		I	24	30	5.00					I					X		X												SIGN ID CODE VR-017		E-141				
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VAOT "SIGN POST DESIGN GUIDELINE."														FT 30	FT 210	FT		EA	LB	LB	LB		LB	LB	LB	LB								PROJECT NAME: BRADFORD-ORANGE PROJECT NUMBER: SIP_2213(1)	
TOTALS					SF 79.01	SF	EA.	SF					FT 240		LB		EA.		LB			EA.	EA.	LB				FILE NAME: p99b178.dgn PROJECT LEADER: JLL DESIGNED BY: STANTEC IPARM_FILE: p99b178tss04.i	PLOT DATE: 28-MAY-2010 13:4 DRAWN BY: STANTEC CHECKED BY: JLL SHEET 66 OF 84						



LOCATION

Technical drawing of a mechanical part with dimensions:

- Overall height: $4 \frac{3}{8}"$
- Top section height: $5"$
- Bottom section height: $5"$
- Bottom flange height: $\frac{7}{8}"$
- Horizontal offset from centerline: $\frac{11}{16}"$
- Overall width: $8 \frac{7}{8}"$

[illegible]**W1-10R**

LOCATION

Technical drawing of a rectangular road sign with rounded corners. The sign is white with a black border and contains the text "LIMLAW RD" in bold, black, sans-serif capital letters. Dimension lines indicate the overall size and internal offsets.

Dimension	Value
Overall Width	48"
Overall Height	13"
Internal Width (Text Area)	43 1/4"
Internal Height (Text Area)	6D
Top Border Offset	3 1/2"
Bottom Border Offset	3 1/2"
Left Border Offset	2 3/8"
Right Border Offset	2 3/8"

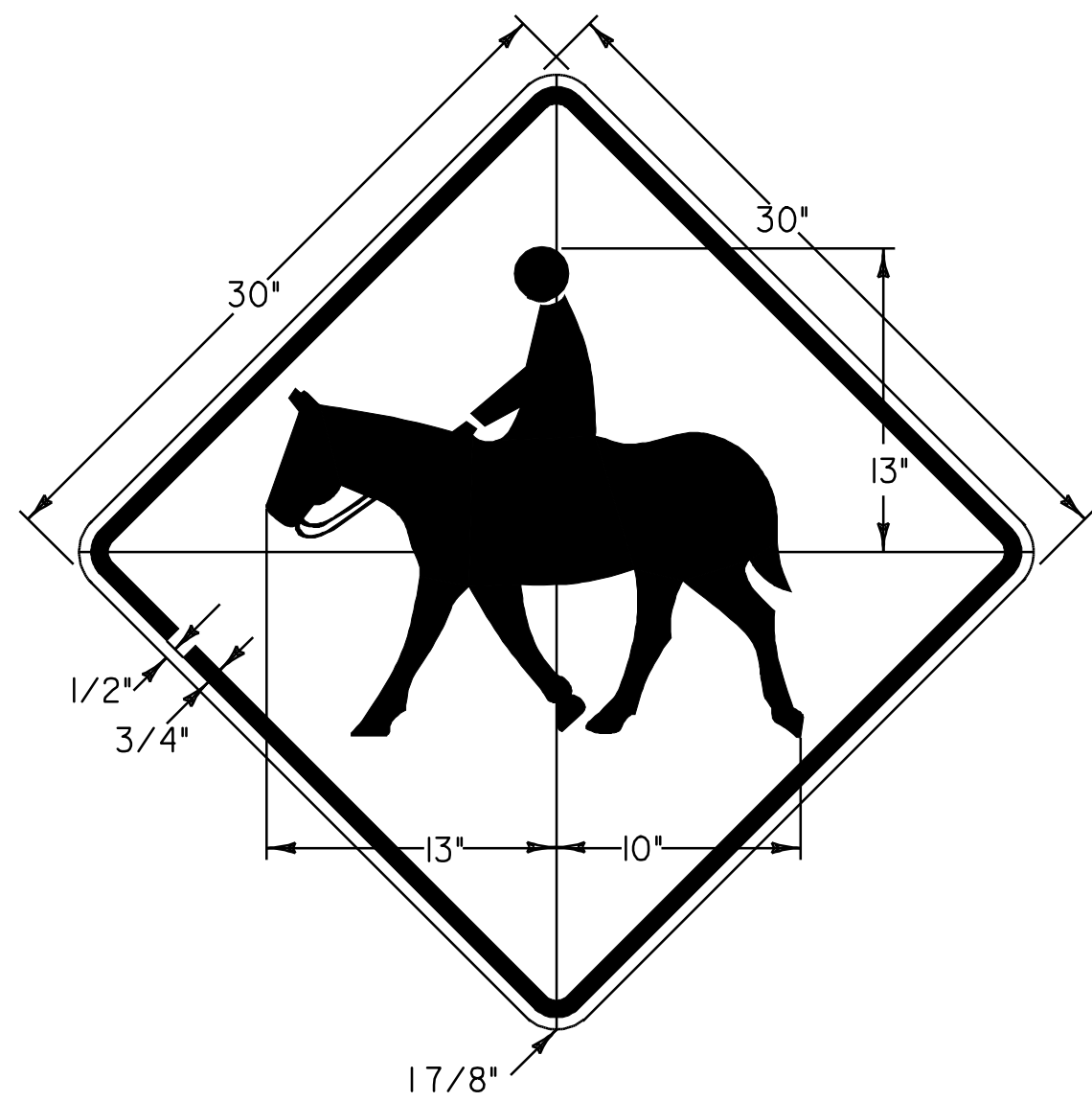
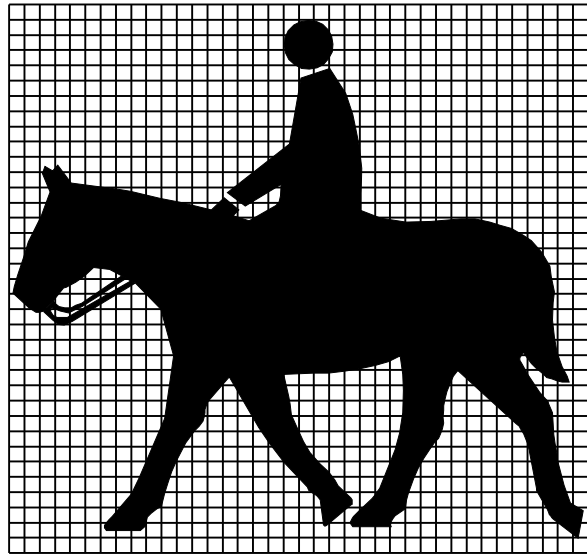
W16-8a

LOCATION

TRAFFIC SIGN DETAILS SHEET 1

PROJECT NAME: <u>BRADFORD - ORANGE</u>	
PROJECT NUMBER: <u>STP 2213(I)</u>	
FILE NAME: p99bl78.dgn	PLOT DATE: 28-MAY-2010 13:45
PROJECT LEADER: <u>JLL</u>	DRAWN BY: <u>STANTEC</u>
DESIGNED BY: <u>STANTEC</u>	CHECKED BY: <u>JLL</u>
IPARM_FILE: p99bl78std01.i	SHEET <u>70</u> OF <u>84</u>

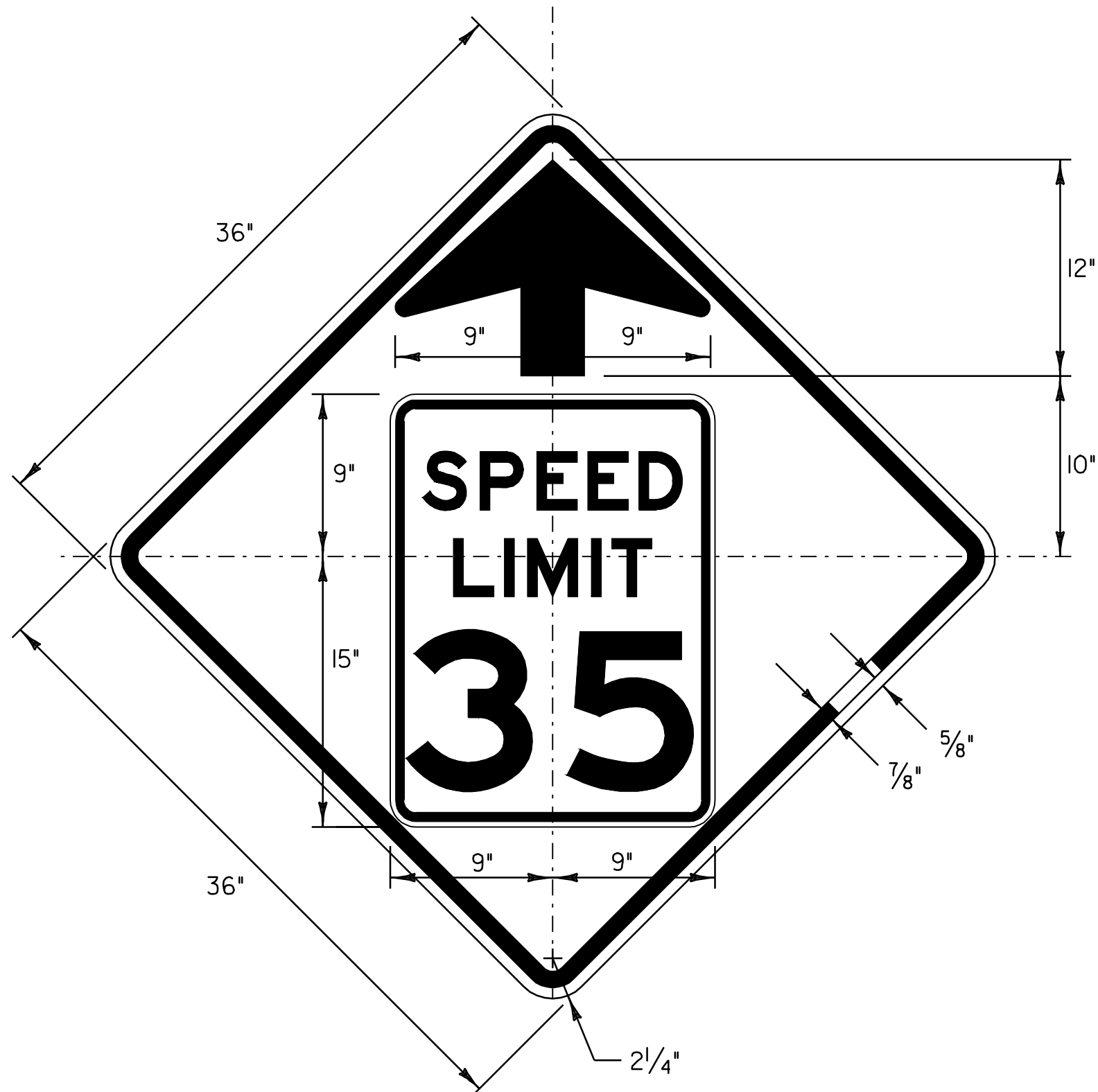




BLACK SYMBOL & BORDER
WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATION

TOPSHAM STA. 3+09, LT

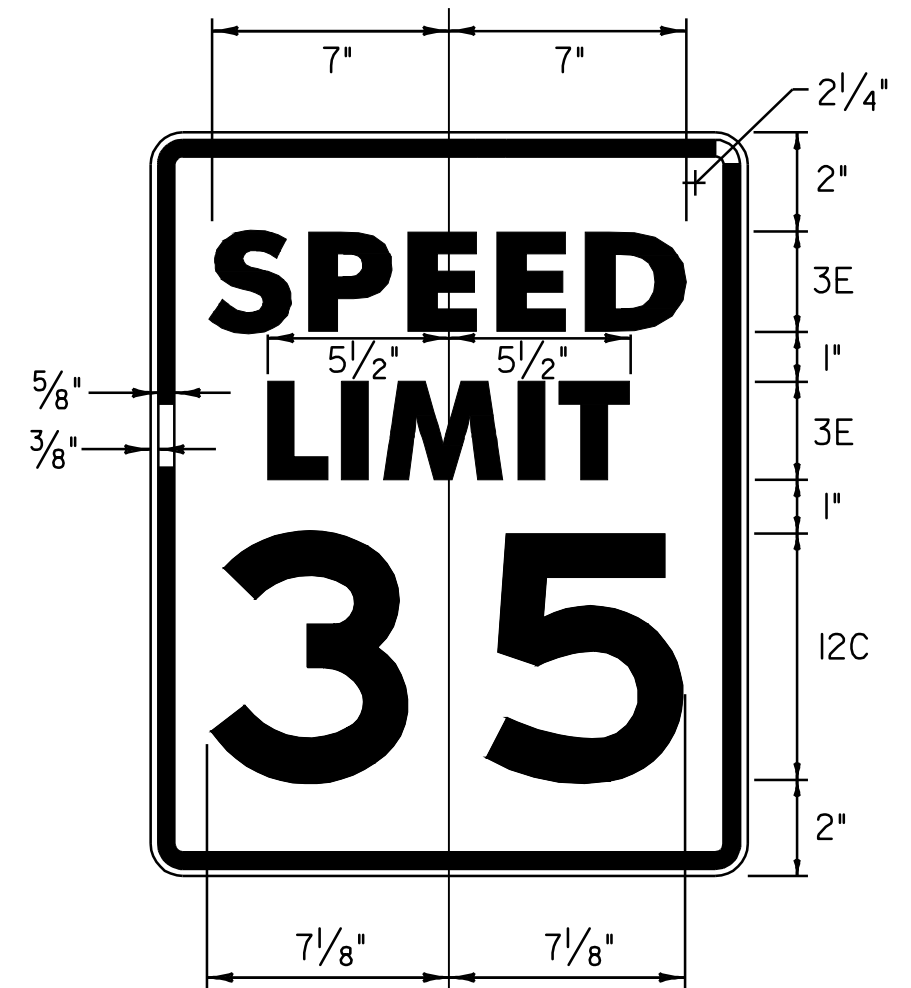


W3-5

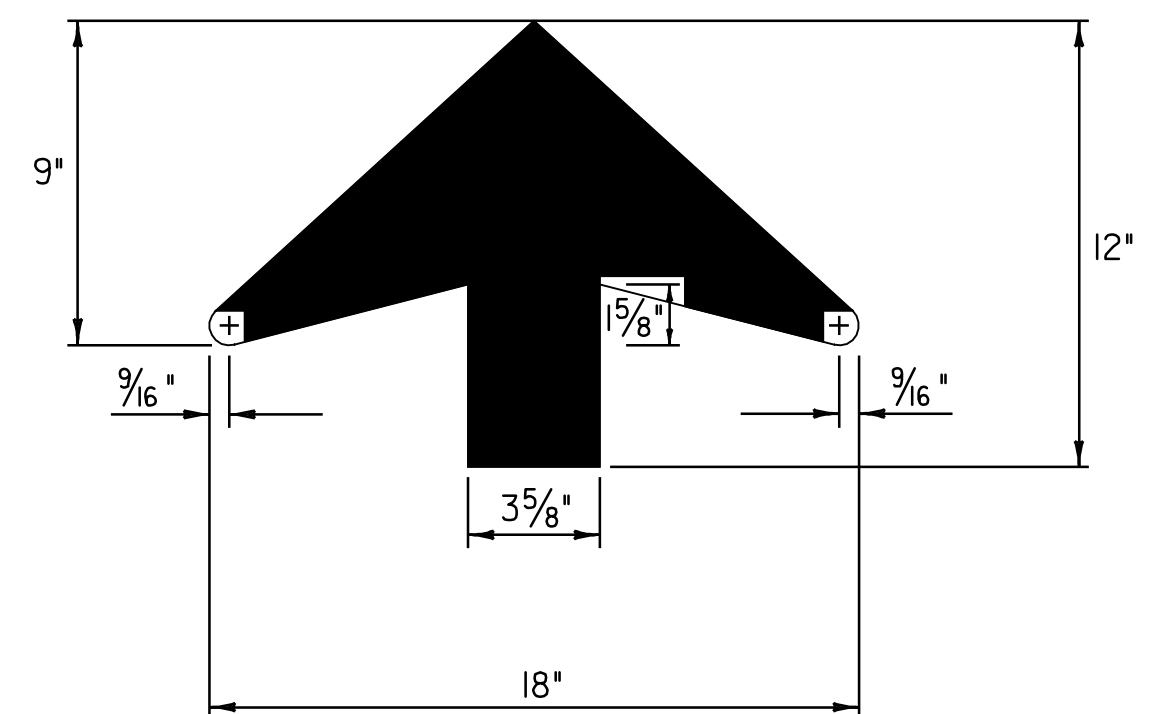
BLACK BORDER & ARROW
WITH ORANGE (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATION

TOPSHAM STA. 233+45, RT
TOPSHAM STA. 281+72, LT



BLACK BORDER & TEXT
WITH YELLOW (RETROREFLECTIVE) BACKGROUND

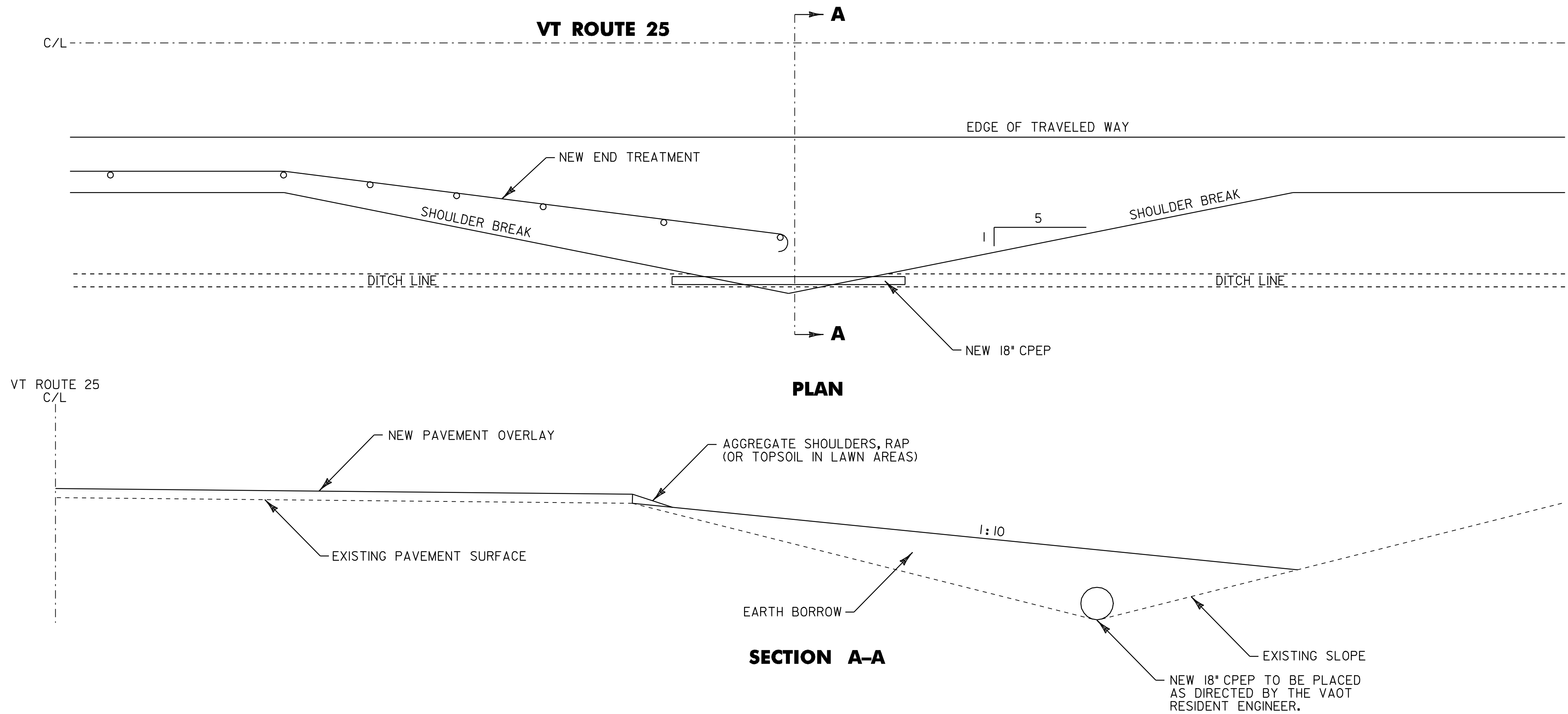


NOT TO SCALE

TRAFFIC SIGN DETAILS SHEET 2

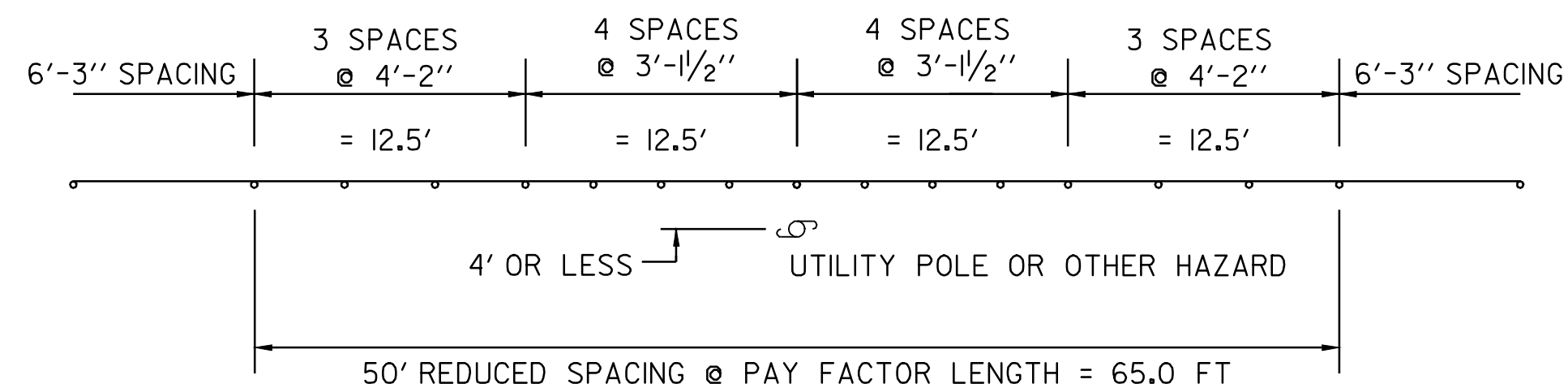
PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(I)
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:4
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p99b178tsd02.i	SHEET 71 OF 84





DETAIL FOR PIPE PLACEMENT @ GUARD RAIL END TREATMENT LOCATION

CORINTH STA. 77+02.5, RT.
TOPSHAM STA. 275+10, RT.



REDUCED GUARD RAIL POST SPACING DETAIL

OBJECTS WITHIN 4 FT OF GUARDRAIL
(N.T.S.)

TOPSHAM STA. 51+80, LT - UTILITY POLE
TOPSHAM STA. 54+70, LT - UTILITY POLE

NOT TO SCALE

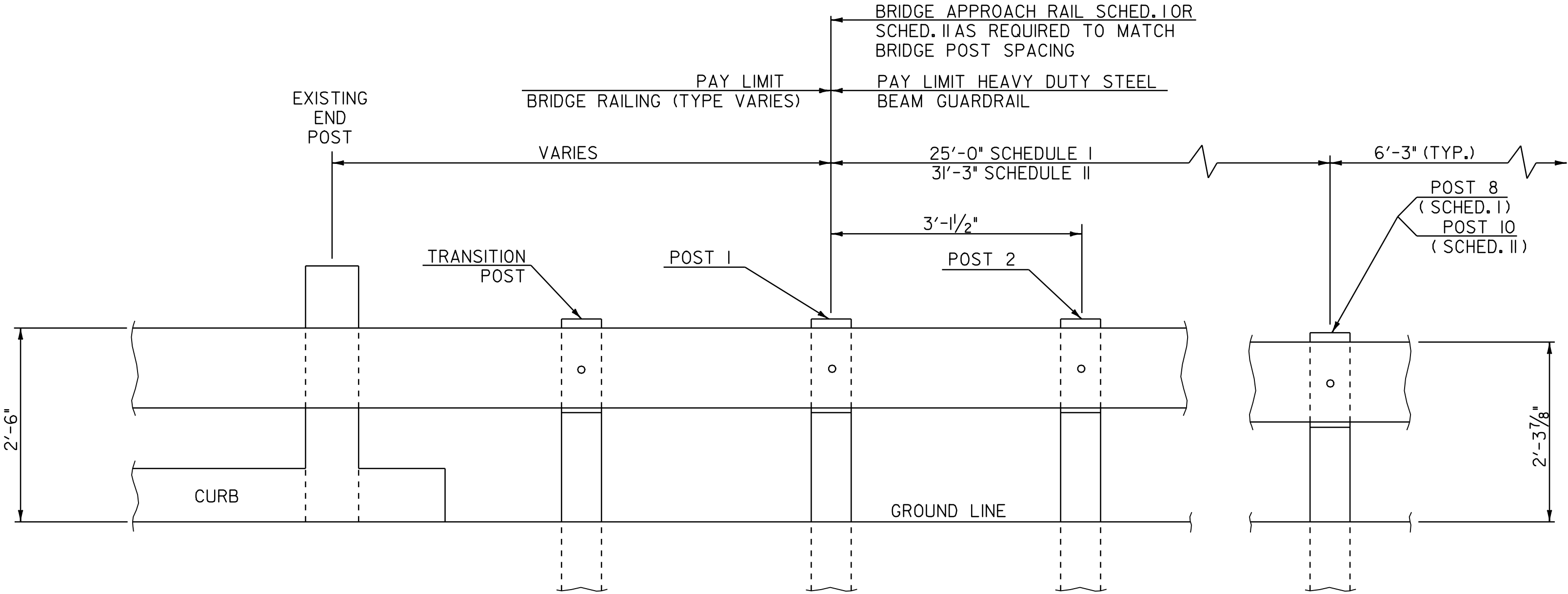


**GUARD
RAIL
DETAIL SHEET**

PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178gds.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	72 OF 84

BRIDGE QUANTITY SHEET

STATION	POS.	BRIDGE NUMBER	OFFSET BLOCK	525.10 (LF)	525.40 (LF)	525.60 (LF)	529.25 (CY)	REMARKS
LOCATION: CORINTH								
120+76.5 - 121+01.5	LT	11	8"	25		25		
120+76.5 - 121+01.5	RT	11	8"	25	25		0.5	
204+94.13 - 205+37.88	RT	12	8"	43.75		43.75		
205+01.13 - 205+44.88	LT	12	8"	43.75		43.75		
TOPSHAM								
145+05.5 - 145+92.5	LT&RT	17						ALL EXISTING BRIDGE RAIL IS TO BE RETAINED
234+42.5 - 234+67.5	RT	19	8"	25		25		
234+62.5 - 234+87.5	LT	19	8"	25		25		
271+35.13 - 271+78.88	RT	20	8"	43.75		43.75		
271+47.63 - 271+91.38	LT	20	8"	43.75		43.75		
273+78.63 - 273+97.38	LT	21	8"	18.75		18.75		
273+78.63 - 273+97.38	RT	21	8"	18.75		18.75		
300+77 - 301+27	LT	23	8"	50		50		
301+06 - 301+56	RT	23	8"	50		50		
SUBTOTALS				412.5	25	387.5	0.5	
ROUNDING				12.5	-	12.5	-	
TOTAL				425	25	400	0.5	



SCHEDULE I		
POST NO.	SPACING	PAYMENT FACTOR
1	3'-1 1/2"	1.4 x 12'-6"
2	3'-1 1/2"	
3	3'-1 1/2"	
4	3'-1 1/2"	
5	4'-2"	
6	4'-2"	1.2 x 12'-6"
7	4'-2"	
8	6'-3"	
9	(TYP.)	1.0 (TYP.)
TOTAL PAY LENGTH = 32' - 6"		

SCHEDULE II		
POST NO.	SPACING	PAYMENT FACTOR
1	3'-11/2"	1.4 x 18'-9"
2	3'-11/2"	
3	3'-11/2"	
4	3'-11/2"	
5	3'-11/2"	
6	3'-11/2"	1.2 x 12'-6"
7	4'-2"	
8	4'-2"	
9	4'-2"	
10	6'-3"	1.0 (TYP.)
11	(TYP.)	
TOTAL PAY LENGTH = 41' - 3"		

SCHEDULE I APPROACH RAILING SHALL BE USED WHEN A RAIL PANEL SPLICE OCCURS AT POST NO.1.
SCHEDULE II APPROACH RAILING SHALL BE USED WHEN A RAIL PANEL SPLICE OCCURS AT THE BRIDGE END POST.

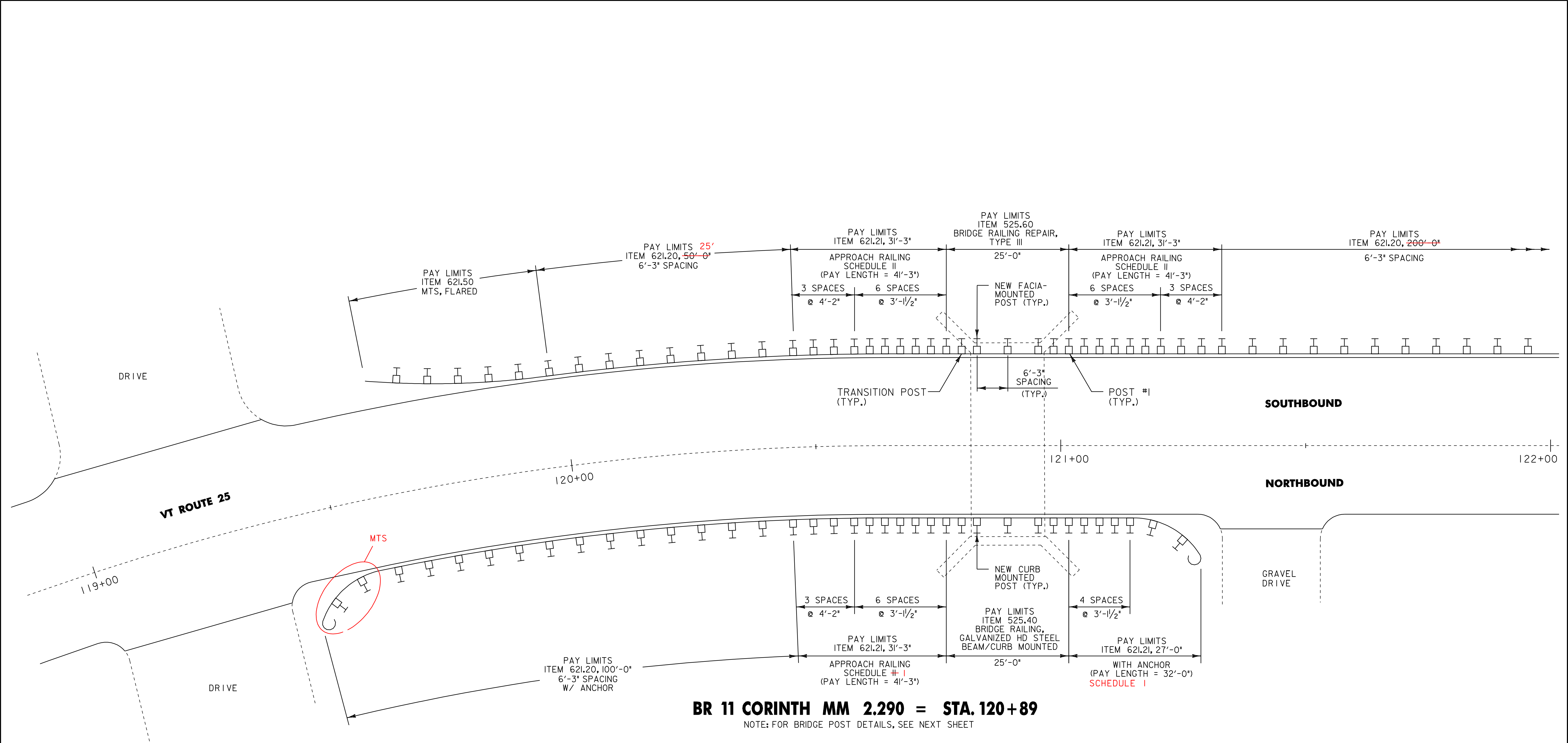
GENERAL NOTES

- BRIDGE RAIL SHALL BE HEAVY DUTY STEEL BEAM GUARDRAIL.
- BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
- APPROACH RAILING SHALL BE HEAVY DUTY STEEL BEAM FOR 25' FROM THE ENDS OF THE BRIDGE UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE RESIDENT ENGINEER.
- FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS PRACTICABLE TO THE MIDPOINT BETWEEN THE BRIDGE END POST AND APPROACH RAIL POST 1.
- SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
- SEE STANDARD SHEET G-1 FOR DELINEATION DETAILS AND PLACEMENT.
- ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 31'-3" APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.
- ALL BRIDGE POSTS, HEAVY DUTY STEEL BEAM BRIDGE RAIL, AND RELATED HARDWARE SHALL BE PAID FOR UNDER THE APPROPRIATE BRIDGE RAILING ITEMS AS DENOTED IN THE PLANS.
- ALL STEEL POSTS, PLATES, OFFSET BLOCKS AND FIXTURES SHALL BE PROVIDED IN ACCORDANCE WITH SUBSECTION 732.04 , UNLESS OTHERWISE NOTED, AND SHALL BE GALVANIZED AFTER FABRICATION.
- SEE STANDARD SHEET G-1 FOR CONNECTION OF STEEL BEAM TO OFFSET BLOCK AND OFFSET BLOCK TO BRIDGE POST.
- NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.

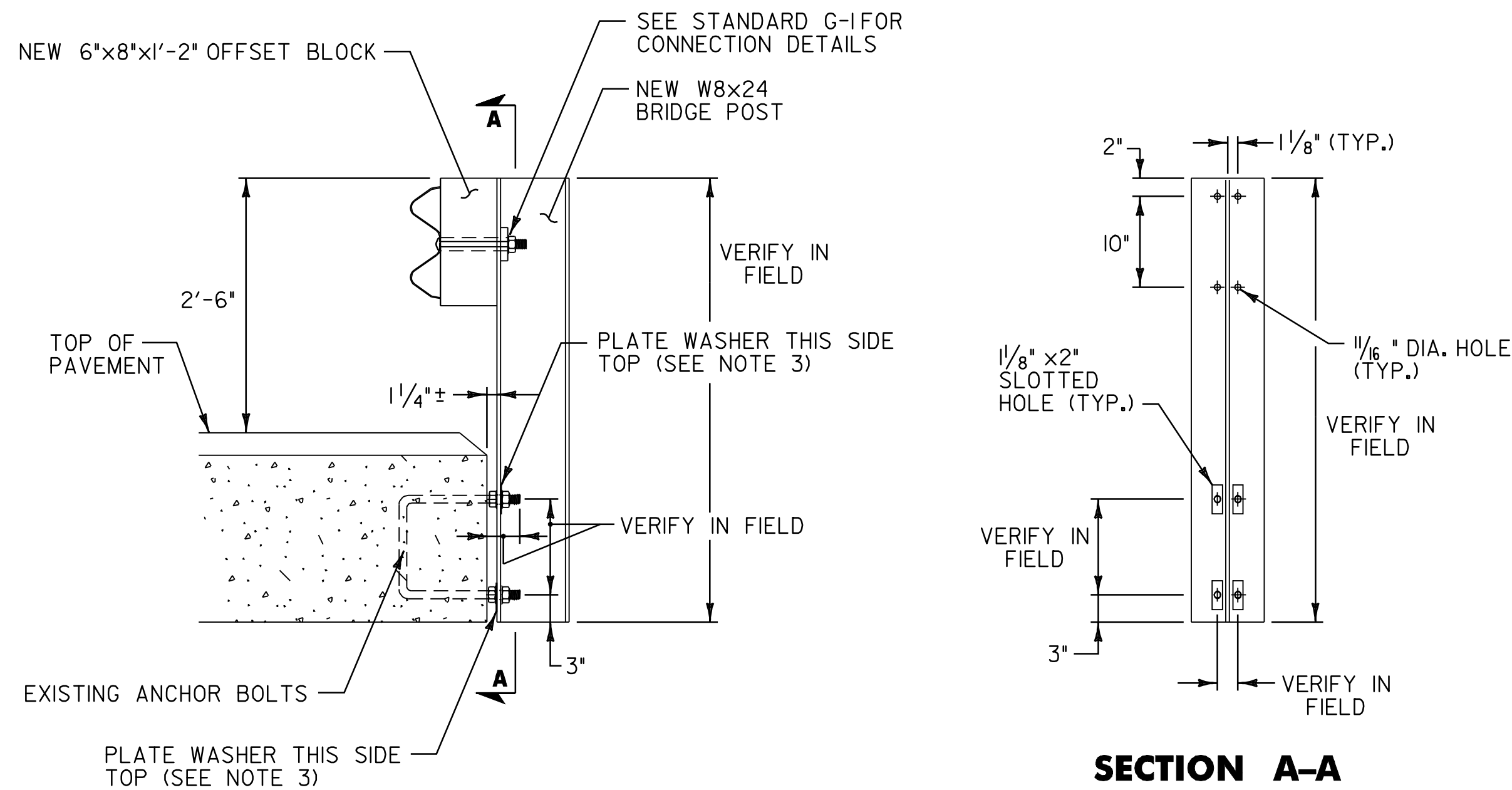
BRIDGE APPROACH RAILING



NOT TO SCALE		PROJECT NAME: BRADFORD - ORANGE	
BRIDGE DETAIL SHEET NO. 1		PROJECT NUMBER: STP 2213(1)	
FILE NAME: p99b178.dgn		PLOT DATE: 28-MAY-2010 13:4	
PROJECT LEADER: JLL		DRAWN BY: STANTEC	
DESIGNED BY: STANTEC		CHECKED BY: JLL	
IPARM FILE: z99b178bds1.i		SHEET 73 OF 84	



NOT TO SCALE	
BRIDGE DETAIL SHEET NO. 2A	
PROJECT NAME: <u>BRADFORD - ORANGE</u>	PROJECT NUMBER: <u>STP 2213(I)</u>
FILE NAME: <u>p99b178.dgn</u>	PLOT DATE: <u>28-MAY-2010 13:4</u>
PROJECT LEADER: <u>JLL</u>	DRAWN BY: <u>SIANTEC</u>
DESIGNED BY: <u>SIANTEC</u>	CHECKED BY: <u>JLL</u>
IPARM FILE: <u>z99b178bds2A.i</u>	SHEET <u>74</u> OF <u>84</u>



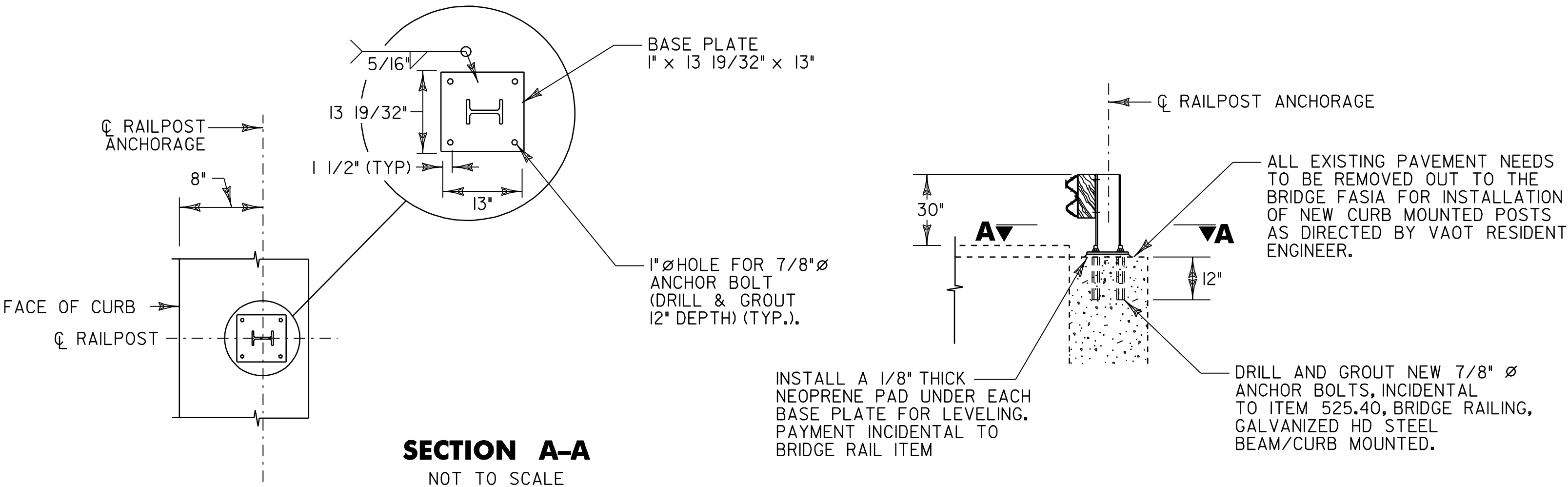
SECTION A-A

BR 11 BRIDGE POST DETAIL (LEFT SIDE ONLY)

CORINTH STA. 120+76.5 TO 121+01.5, LT

NOTES

1. LOCATION OF EXISTING ANCHOR BOLTS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING BRIDGE POSTS.
2. POSTS SHALL BE SHOP CUT AND DRILLED PRIOR TO GALVANIZING.
3. SEE VAOT STANDARD SHEETS G-1, G-1d, AND SB-R6-82 FOR ADDITIONAL DETAILS.
4. ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER ITEM 525.60 BRIDGE RAILING REPAIR, TYPE III.
5. BRIDGE RAIL SHALL BE GALVANIZED HD STEEL BEAM RAIL.
6. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
7. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH POST 1.
8. APPROACH RAILING SHALL BE GALVANIZED HD STEEL BEAM FOR AT LEAST 25' FROM THE ENDS OF THE BRIDGE.
9. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
10. NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
11. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.
12. SEE VAOT STANDARD SHEET G-1 FOR DELINEATION DETAILS AND PLACEMENT.
13. ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 29.5' APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.



SECTION A-A

NOT TO SCALE

ELEVATION VIEW

NOT TO SCALE

PROPOSED BRIDGE RAIL MOUNTING
DETAILS FOR BRIDGE BR 11 (RIGHT SIDE ONLY)

CORINTH STA. 120+76.5 TO 121+01.5, RT

NOTES

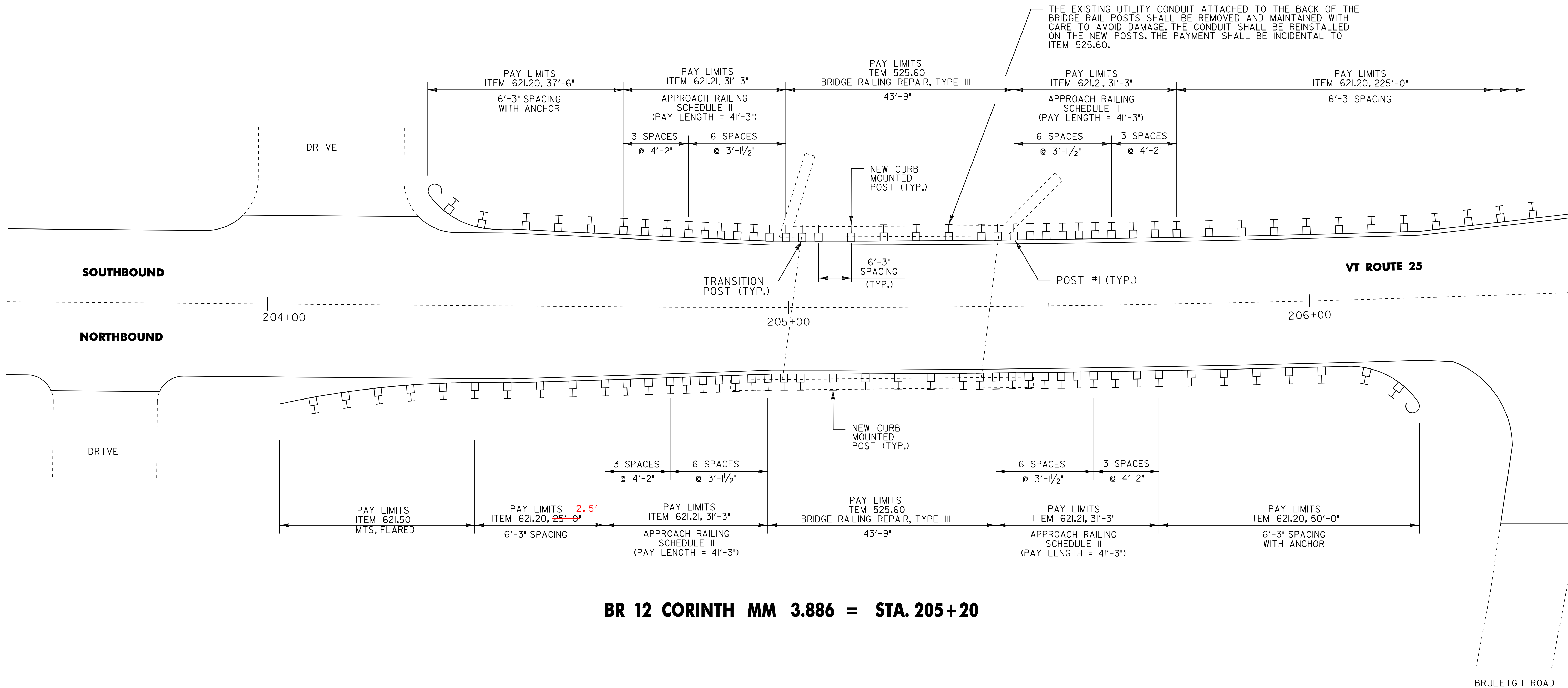
1. SEE VAOT STANDARDS G-1 AND G-1d FOR ADDITIONAL DETAILS.
2. ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER THE ITEM 525.40 BRIDGE RAILING, GALVANIZED HD STEEL BEAM/CURB MOUNTED.
3. BRIDGE RAIL SHALL BE GALVANIZED HD STEEL BEAM RAIL.
4. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
5. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH POST 1.
6. APPROACH RAILING SHALL BE GALVANIZED HD STEEL BEAM FOR AT LEAST 25' FROM THE ENDS OF THE BRIDGE.
7. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
8. NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
9. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.
10. NEW ASTM A-449 7/8" DIAMETER ANCHOR BOLTS TO BE GROUTED IN PLACE SHALL BE FURNISHED WITH ONE NUT AND ONE WASHER. BOLTS, NUTS AND WASHERS SHALL BE INCIDENTAL TO ITEM 525.40.
11. GROUT NEW BOLTS WITH A TYPE IV MORTAR. DRILLING AND GROUTING NEW ANCHOR BOLTS SHALL BE INCIDENTAL TO ITEM 525.60.
12. A MINIMUM PULLOUT STRENGTH OF 70 kips SHALL BE ATTAINED ON ALL NEW BOLTS THAT ARE GROUTED IN PLACE. A SAMPLE GROUTED BOLT WILL BE TESTED BEFORE MATERIALS ARE APPROVED FOR USE, AND THEN RANDOM BOLTS WILL BE FIELD TESTED BY THE STATE OF VERMONT TO ENSURE THIS STRENGTH IS BEING ATTAINED. 48-HOURS ADVANCE NOTICE IS REQUIRED TO ALERT VAOT AS TO WHEN THE CONTRACTOR WILL BE READY FOR THIS TESTING.
13. SEE VAOT STANDARD SHEET G-1 FOR DELINEATION DETAILS AND PLACEMENT.
14. ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 29.5' APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.

NOT TO SCALE

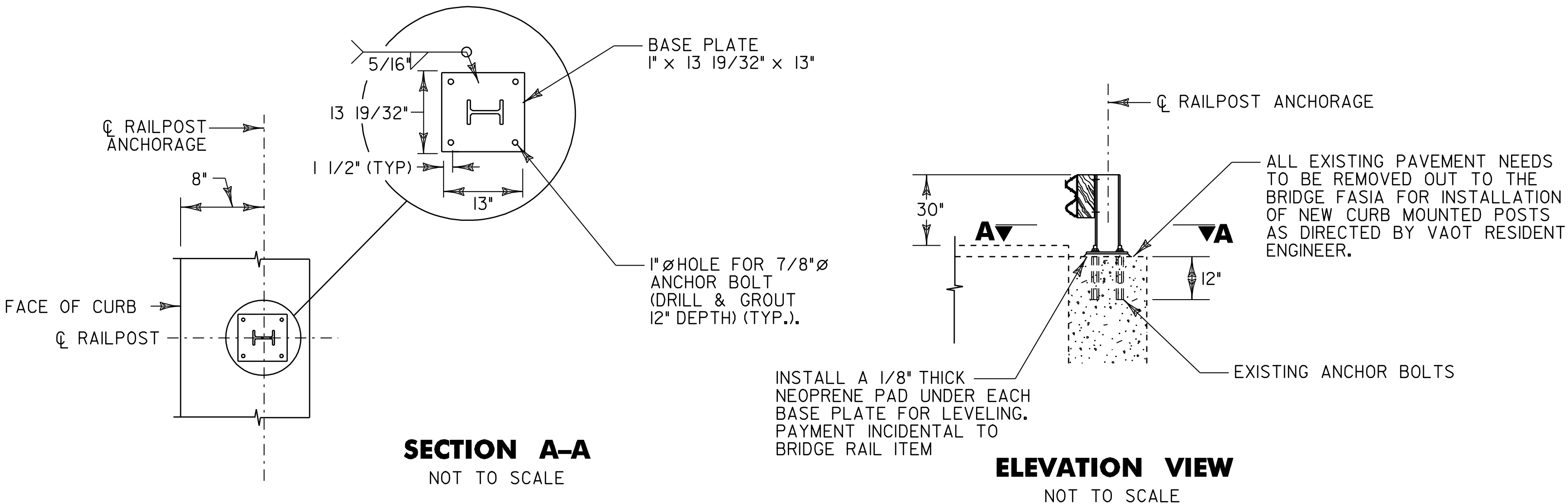
BRIDGE
DETAIL SHEET
NO. 2B



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	z99b178bds2B.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	75 OF 84



BR 12 CORINTH MM 3.886 = STA. 205+20



SECTION A-A
NOT TO SCALE

ELEVATION VIEW
NOT TO SCALE

PROPOSED BRIDGE RAIL MOUNTING
DETAILS FOR BRIDGE BR 12

NOTES

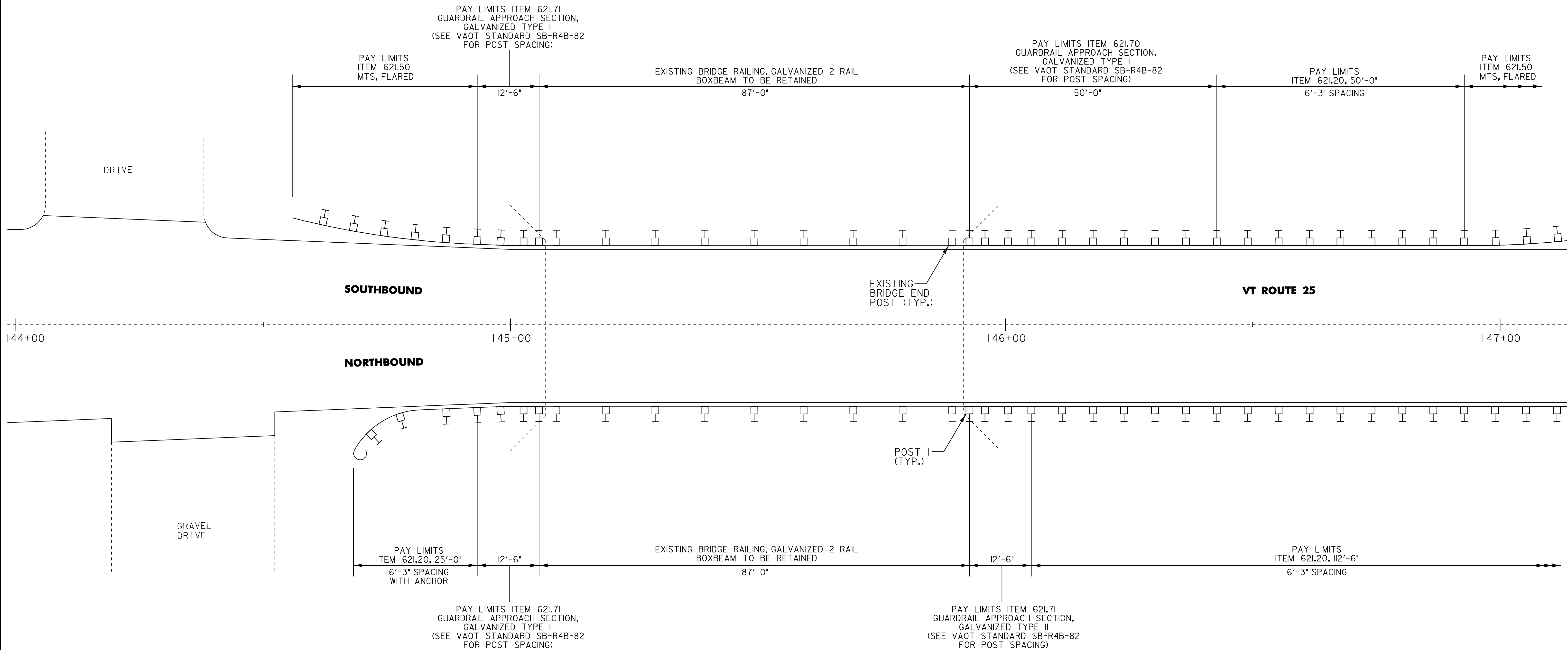
1. SEE VAOT STANDARDS G-I AND G-Id FOR ADDITIONAL DETAILS.
2. ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER THE ITEM 525.60 BRIDGE RAILING REPAIR, TYPE III.
3. BRIDGE RAIL SHALL BE GALVANIZED HD STEEL BEAM RAIL.
4. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
5. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH POST 1.
6. APPROACH RAILING SHALL BE GALVANIZED HD STEEL BEAM FOR AT LEAST 25' FROM THE ENDS OF THE BRIDGE.
7. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
8. NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
9. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.
10. LOCATION OF EXISTING ANCHOR BOLTS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING BRIDGE POSTS.
11. SEE VAOT STANDARD SHEET G-IFOR DELINEATION DETAILS AND PLACEMENT.
12. ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 29.5' APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.

NOT TO SCALE

BRIDGE
DETAIL SHEET
NO. 3



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	STP 2213(I)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	z99b178bds3.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	76 OF 84



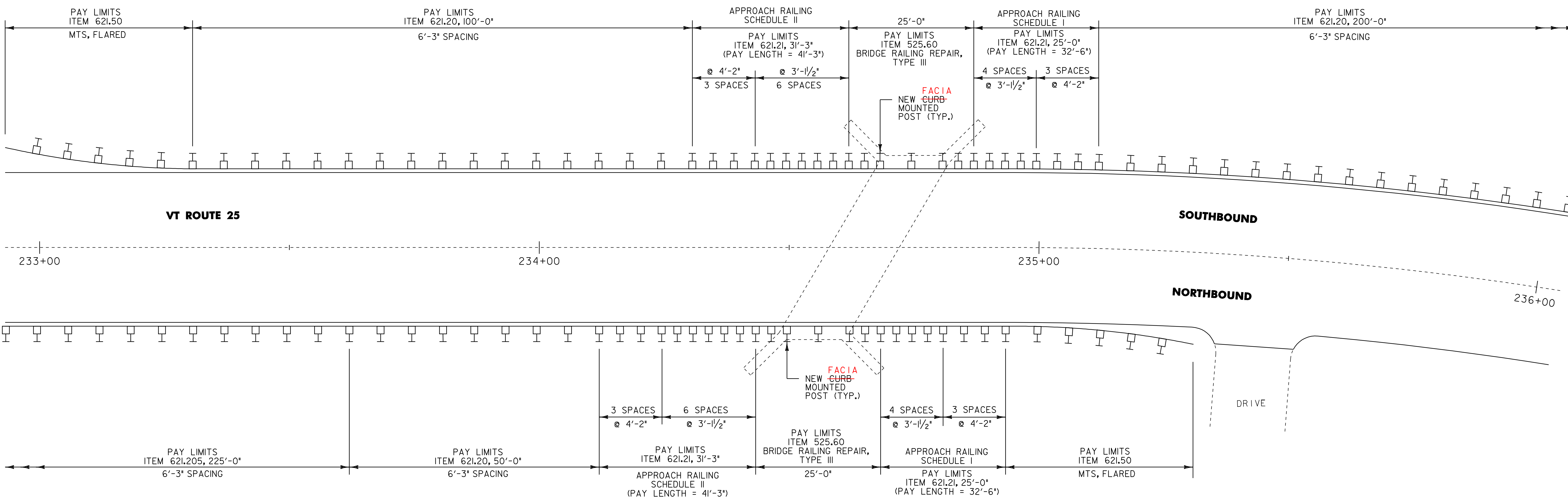
BR 17 TOPSHAM MM 2.756 = STA. 145+49

NOT TO SCALE

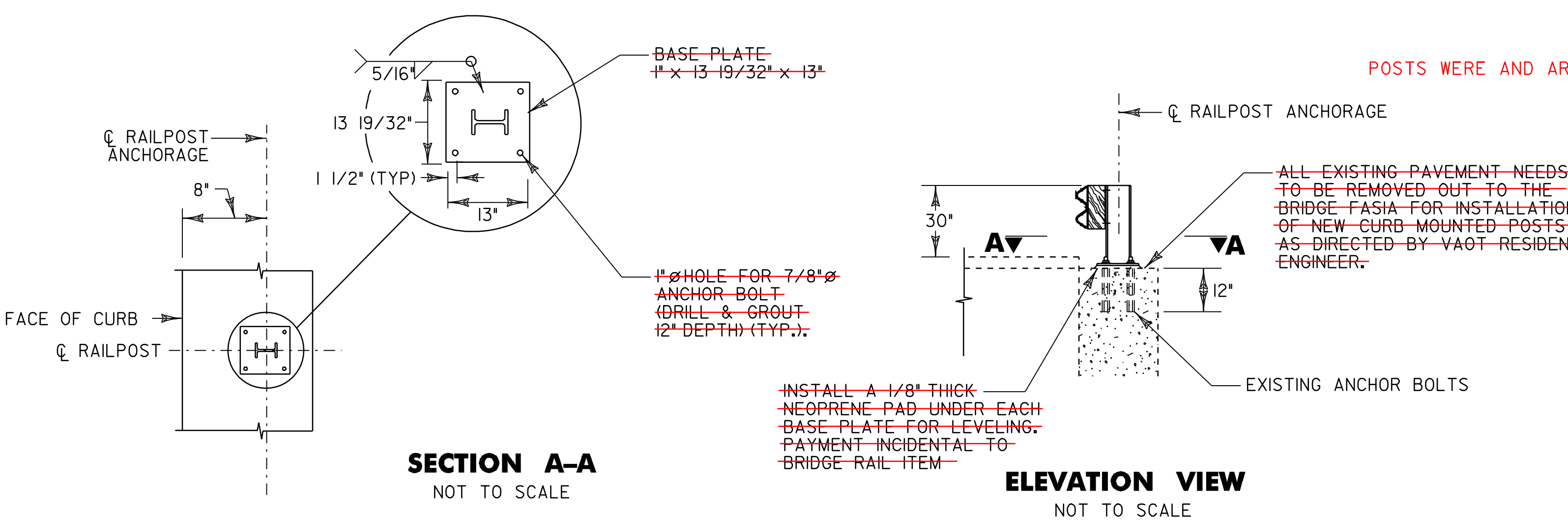
BRIDGE
DETAIL SHEET
NO. 4



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	SIP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	z99b178bds4.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	77 OF 84



BR 19 TOPSHAM MM 4.444 = STA. 234+65



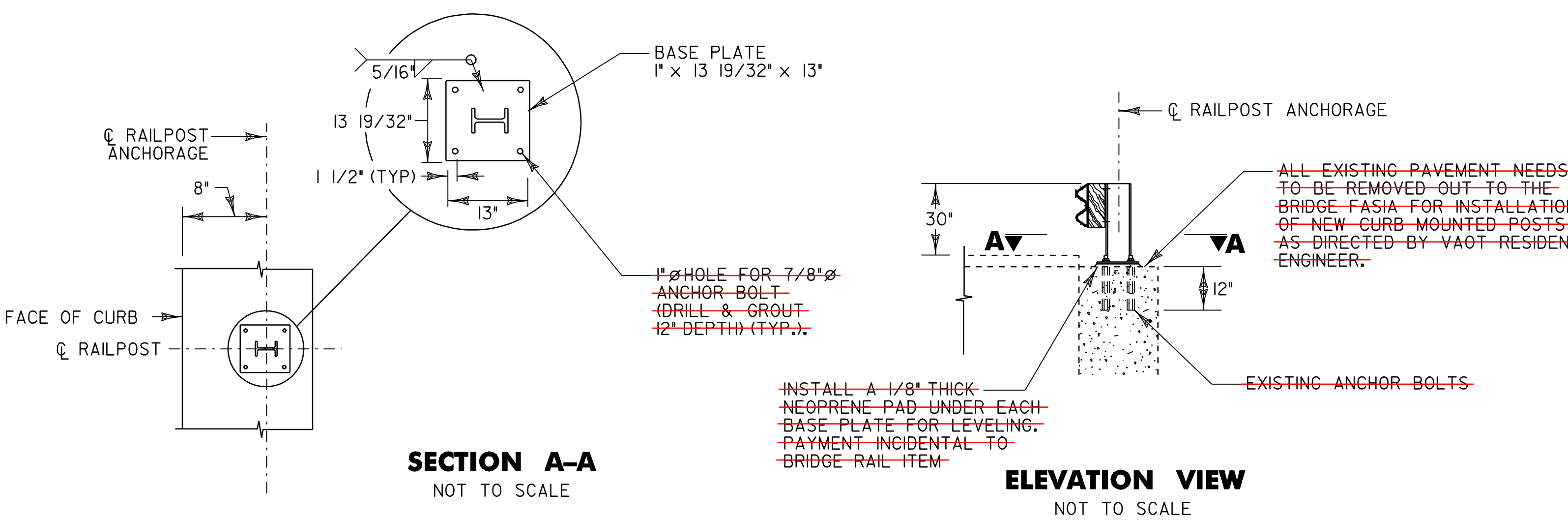
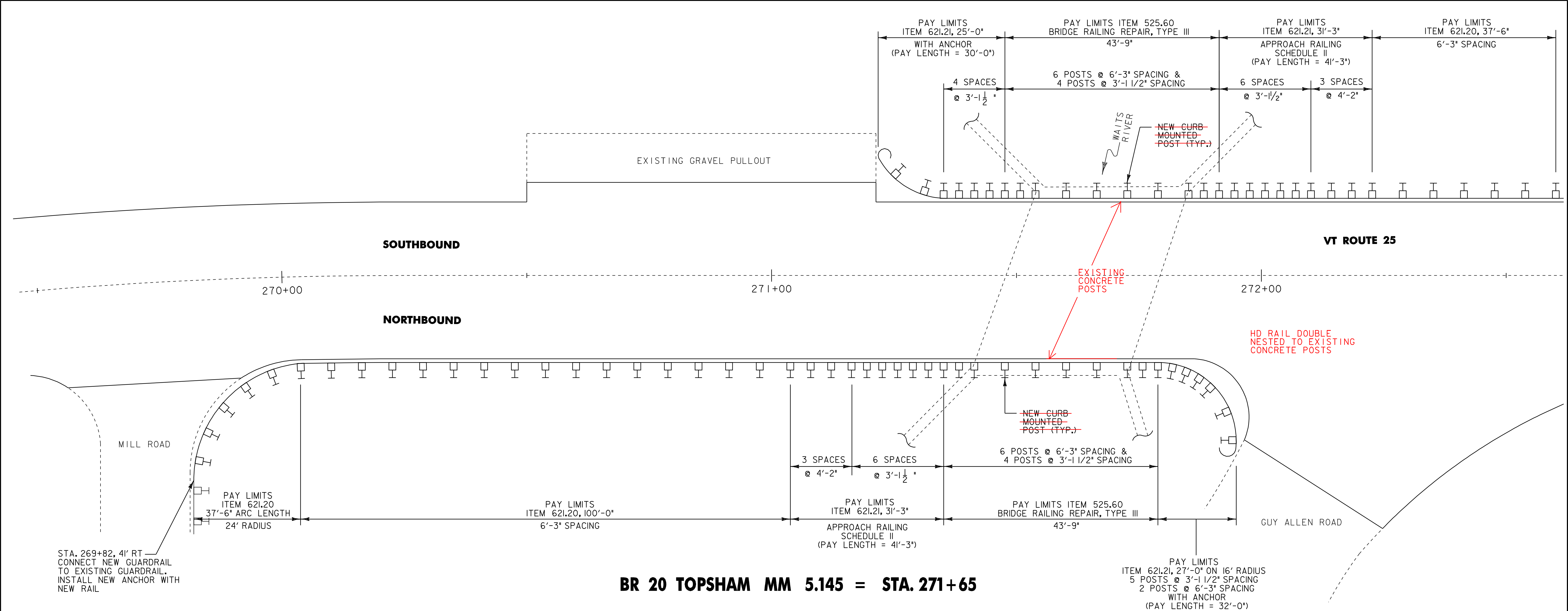
NOTES

1. SEE VAOT STANDARDS G-1 AND G-1d FOR ADDITIONAL DETAILS.
2. ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER ITEM 525.60 BRIDGE RAILING REPAIR, TYPE III.
3. BRIDGE RAIL SHALL BE GALVANIZED HD STEEL BEAM RAIL.
4. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
5. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH POST I.
6. APPROACH RAILING SHALL BE GALVANIZED HD STEEL BEAM FOR AT LEAST 25' FROM THE ENDS OF THE BRIDGE.
7. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
8. NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
9. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10
10. LOCATION OF EXISTING ANCHOR BOLTS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING BRIDGE POSTS.
11. SEE VAOT STANDARD SHEET G-1 FOR DELINEATION DETAILS AND PLACEMENT.
12. ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 29.5' APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.

PROPOSED BRIDGE RAIL MOUNTING
DETAILS FOR BRIDGE BR 19



NOT TO SCALE	
BRIDGE DETAIL SHEET NO. 5	PROJECT NAME: BRADFORD - ORANGE
	PROJECT NUMBER: STP 2213(1)
	FILE NAME: p99b178.dgn
	PLOT DATE: 28-MAY-2010 13:4
IPARM FILE: z99b178bds5.i	DESIGNED BY: STANTEC
	CHECKED BY: JLL
	SHEET 78 OF 84



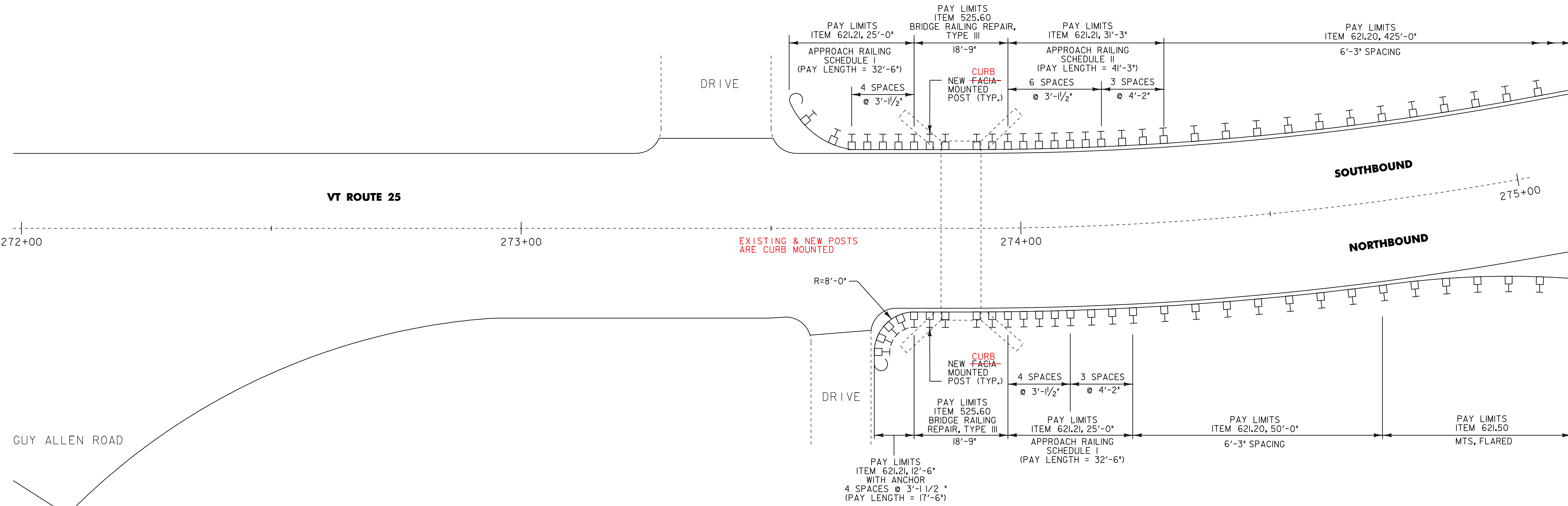
NOTES

1. SEE VAOT STANDARDS G-1 AND G-1d FOR ADDITIONAL DETAILS.
2. ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER ITEM 525.60 BRIDGE RAILING REPAIR, TYPE III.
3. BRIDGE RAIL SHALL BE GALVANIZED HD STEEL BEAM RAIL.
4. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
5. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH POST 1.
6. APPROACH RAILING SHALL BE GALVANIZED HD STEEL BEAM FOR AT LEAST 25' FROM THE ENDS OF THE BRIDGE.
7. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
8. NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
9. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10
10. LOCATION OF EXISTING ANCHOR BOLTS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING BRIDGE POSTS.
11. SEE VAOT STANDARD SHEET G-1 FOR DELINEATION DETAILS AND PLACEMENT.
12. ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 29.5' APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.

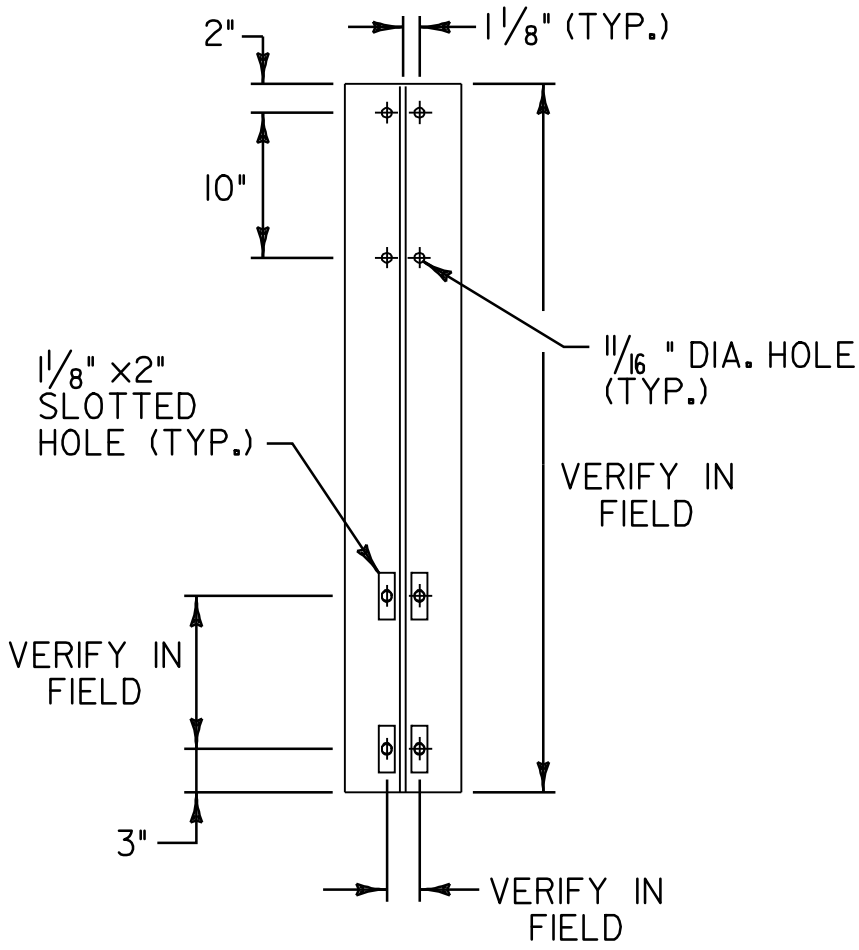
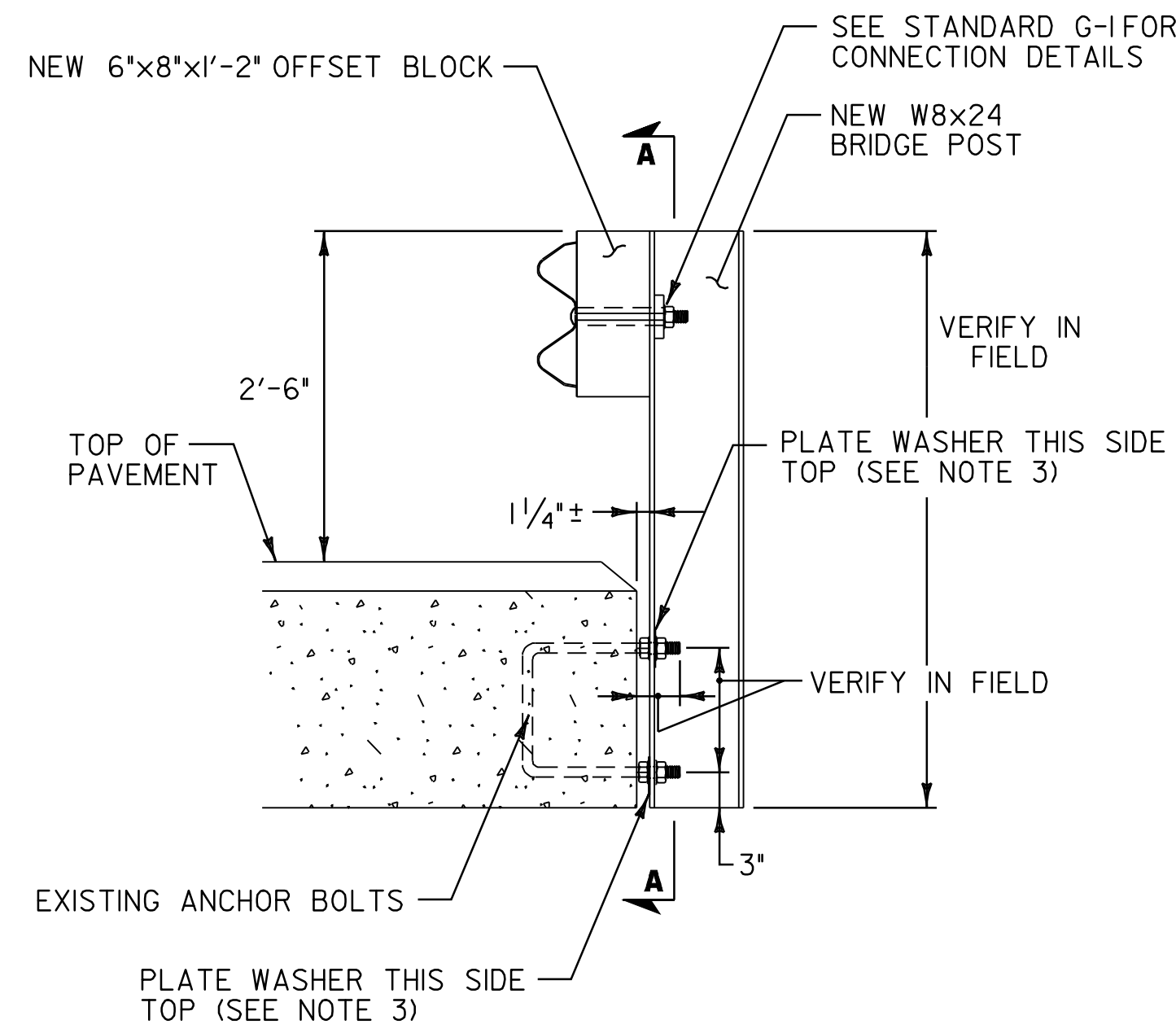
**PROPOSED BRIDGE RAIL MOUNTING
DETAILS FOR BRIDGE BR 20**



NOT TO SCALE	
BRIDGE DETAIL SHEET NO. 6	PROJECT NAME: <u>BRADFORD - ORANGE</u>
	PROJECT NUMBER: <u>SIP 2213(I)</u>
	FILE NAME: <u>p99b178.dgn</u> PLOT DATE: <u>28-MAY-2010 13:4</u>
	PROJECT LEADER: <u>JLL</u> DRAWN BY: <u>STANTEC</u>
DESIGNED BY: <u>STANTEC</u> CHECKED BY: <u>JLL</u>	
IPARM FILE: <u>z99b178bds6.i</u> SHEET <u>79</u> OF <u>84</u>	



BR 21 TOPSHAM MM 5.187 = STA. 273+88



SECTION A-A

NOTES

1. LOCATION OF EXISTING ANCHOR BOLTS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING BRIDGE POSTS.
2. POSTS SHALL BE SHOP CUT AND DRILLED PRIOR TO GALVANIZING.
3. SEE VAOT STANDARD SHEETS G-1, G-1d, AND SB-R6-82 FOR ADDITIONAL DETAILS.
4. ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER ITEM 525.60 BRIDGE RAILING REPAIR TYPE III.
5. BRIDGE RAIL SHALL BE GALVANIZED HD STEEL BEAM RAIL.
6. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
7. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH POST 1.
8. APPROACH RAILING SHALL BE GALVANIZED HD STEEL BEAM FOR AT LEAST 25' FROM THE ENDS OF THE BRIDGE.
9. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
10. NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
11. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.
12. SEE VAOT STANDARD SHEET G-1 FOR DELINEATION DETAILS AND PLACEMENT.
13. ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 29.5' APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.

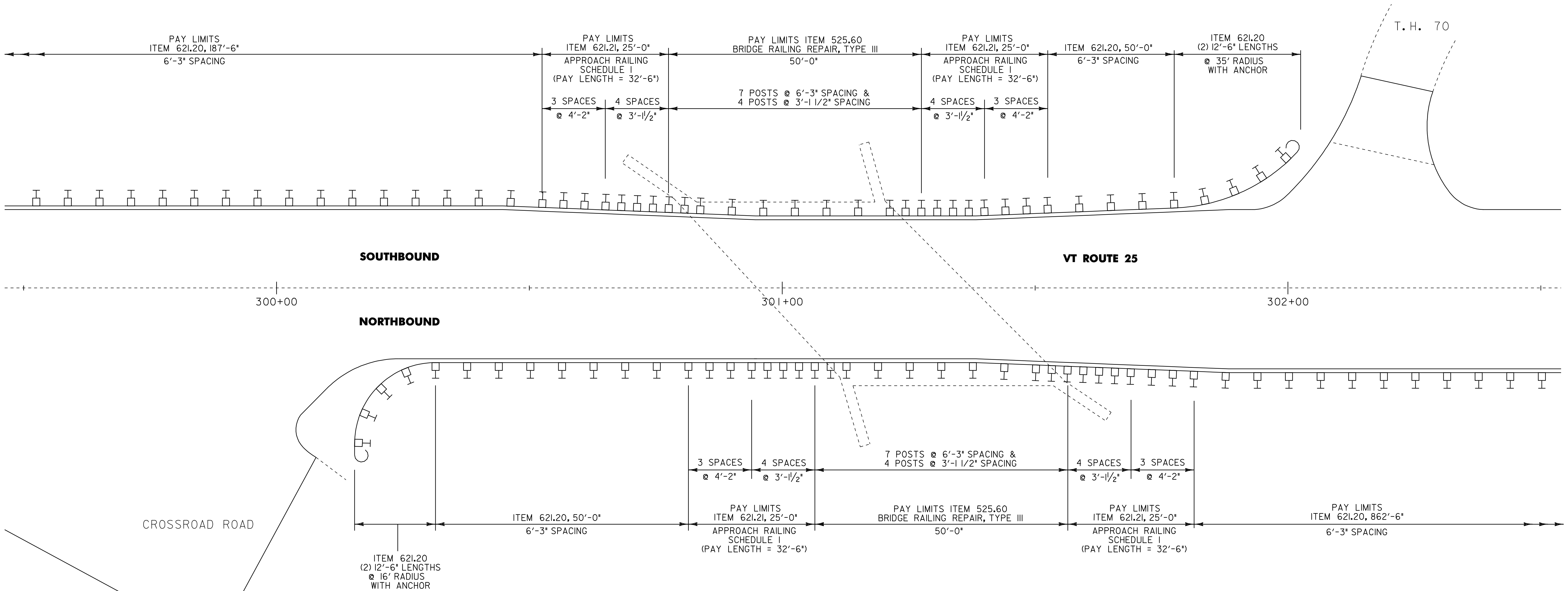
BR 21 BRIDGE POST DETAIL

NOT TO SCALE

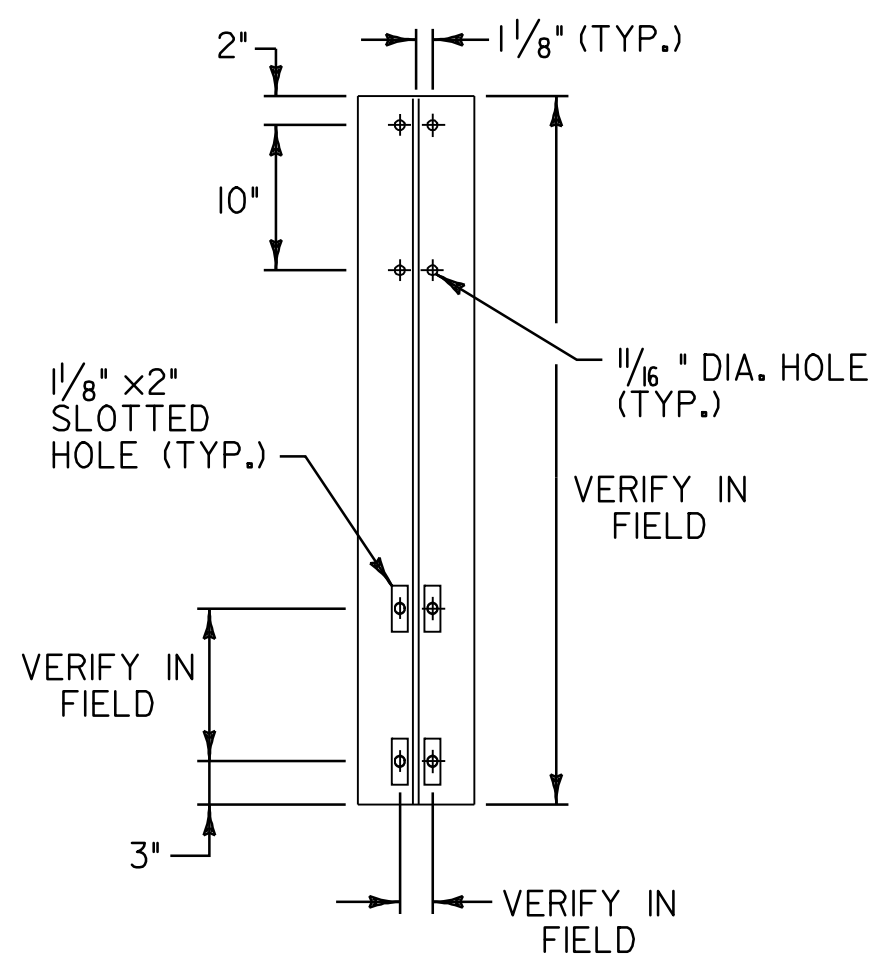
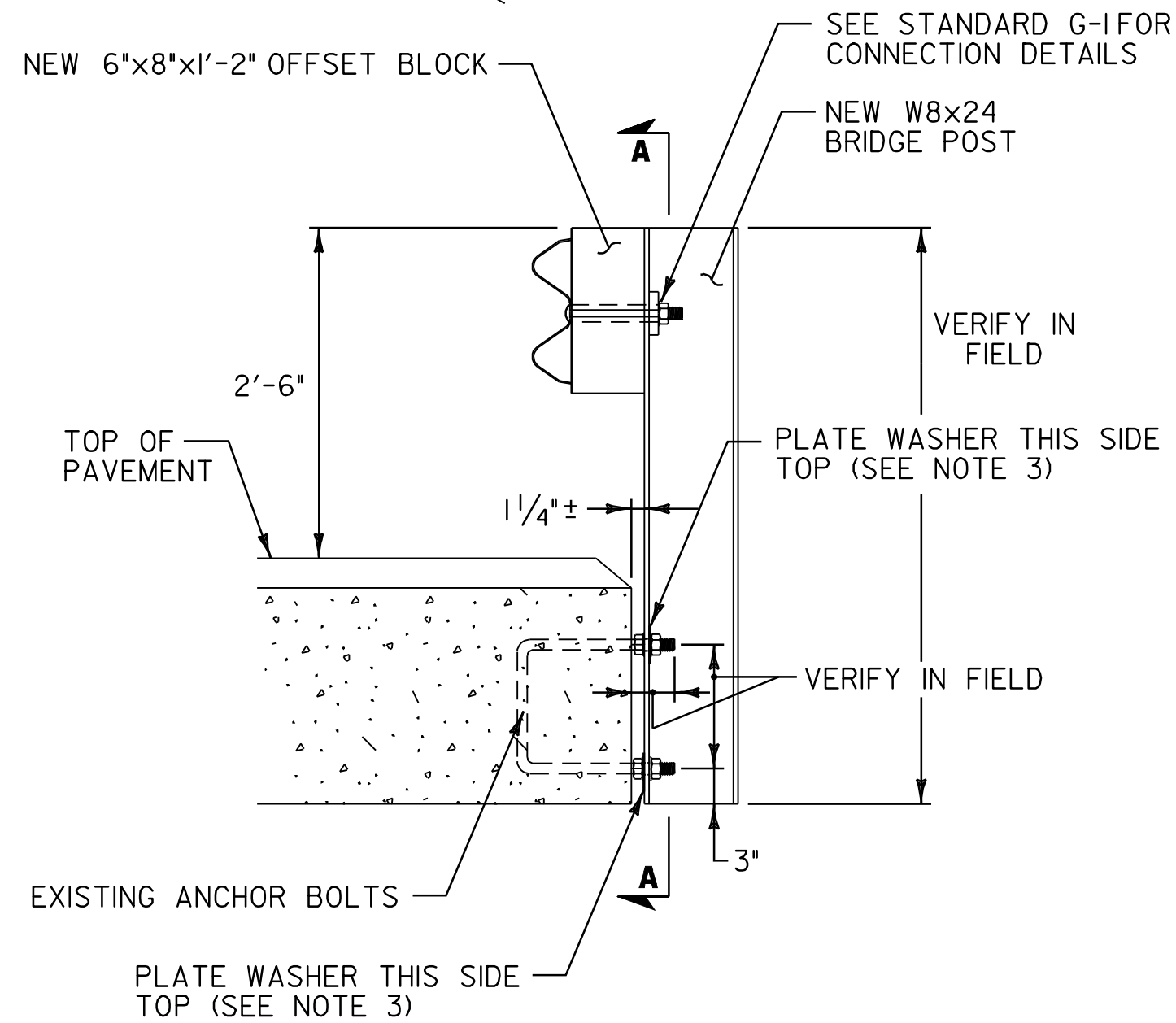
BRIDGE
DETAIL SHEET
NO. 7



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	STP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	z99b178bds7.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	80 OF 84



BR 23 TOPSHAM MM 5.704 = STA. 301+17



SECTION A-A

BR 23 BRIDGE POST DETAIL

NOTES

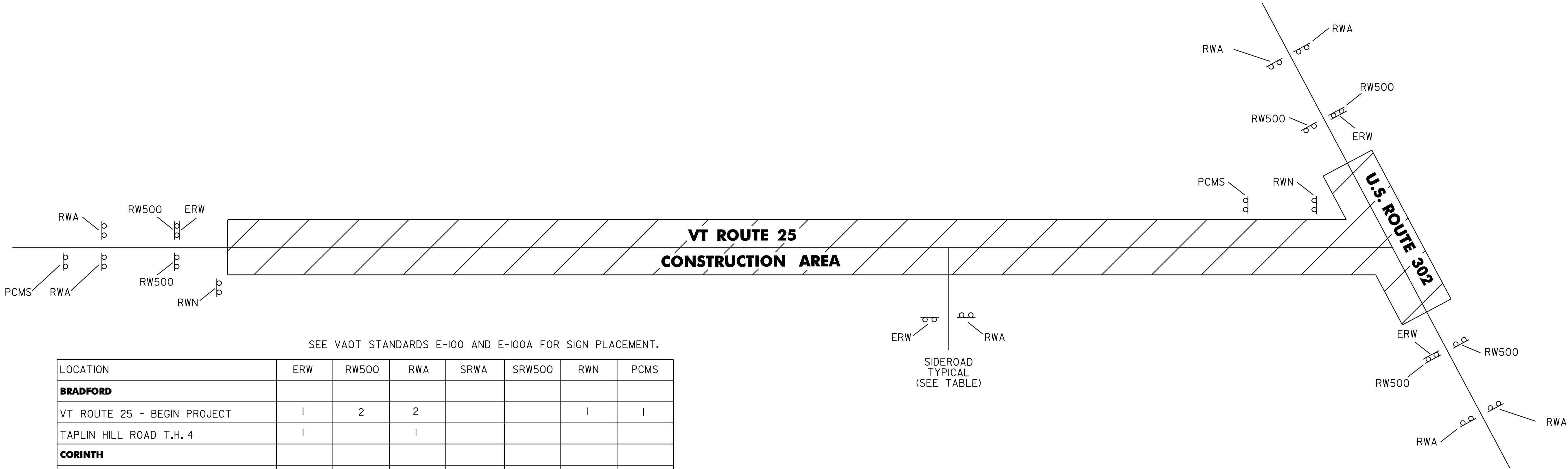
1. LOCATION OF EXISTING ANCHOR BOLTS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING BRIDGE POSTS.
2. POSTS SHALL BE SHOP CUT AND DRILLED PRIOR TO GALVANIZING.
3. SEE VAOT STANDARD SHEETS G-I, G-Id, AND SB-R6-82 FOR ADDITIONAL DETAILS.
4. ALL HEAVY DUTY STEEL BEAM BRIDGE RAIL, OFFSET BLOCKS AND RELATED HARDWARE SHALL BE PAID FOR UNDER ITEM 525.60 BRIDGE RAILING REPAIR, TYPE III.
5. BRIDGE RAIL SHALL BE GALVANIZED HD STEEL BEAM RAIL.
6. BRIDGE APPROACH RAIL HEIGHT SHALL BE TRANSITIONED TO NORMAL ROADWAY RAIL HEIGHT IN 25'.
7. FOR BRIDGE RAILING, THE TRANSITION POST SHALL HAVE AN OFFSET BLOCK AND BE LOCATED AS CLOSE AS POSSIBLE TO THE MID-POINT BETWEEN THE BRIDGE END POST AND APPROACH POST I.
8. APPROACH RAILING SHALL BE GALVANIZED HD STEEL BEAM FOR AT LEAST 25' FROM THE ENDS OF THE BRIDGE.
9. SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
10. NEW BRIDGE RAILING POSTS SHALL BE SET NORMAL TO GRADE.
11. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.
12. SEE VAOT STANDARD SHEET G-IFOR DELINEATION DETAILS AND PLACEMENT.
13. ERECT DELINEATORS ON EVERY FIFTH POST OR APPROXIMATELY 29.5' APART. PAYMENT SHALL BE INCIDENTAL TO OTHER ITEMS.

NOT TO SCALE

**BRIDGE
DETAIL SHEET
NO. 8**



PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	STP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	z99b178bds8.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	81 OF 84



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

LOCATION	ERW	RW500	RWA	SRWA	SRW500	RWN	PCMS
BRADFORD							
VT ROUTE 25 - BEGIN PROJECT		2	2				
TAPLIN HILL ROAD T.H. 4							
CORINTH							
VILLAGE ROAD T.H. 1							
TAPLIN HILL ROAD T.H.28							
FAIRGROUND ROAD							
BROOK ROAD T.H.4							
LIMLAW ROAD T.H.14							
BRULEIGH ROAD T.H. 15							
TOPSHAM							
WAITS RIVER VALLEY SCHOOL ROAD							
WATSON HILL ROAD T.H. 38							
PIKE HILL ROAD T.H. 57							
GENDRON ROAD T.H. 72							
HONEY CORNERS ROAD T.H. 36							
PERRY/WATERMAN ROAD T.H. 49							
E. ORANGE ROAD T.H. 3							
E. ORANGE ROAD T.H. 48							
WARSLEY ROAD T.H. 80							
BATTEN ROAD T.H. 34							
MILL ROAD T.H. 81							
GUY ALLEN ROAD T.H. 36							
KIMBALL HILL ROAD T.H. 25							
CROSSROADS ROAD T.H. 24							
T.H. 70							
U.S ROUTE 302	2	4	4				
VT ROUTE 25 - END PROJECT							
TOTAL	25	6	28			2	2

LEGEND

- ERW

= END ROAD WORK
- RW500

= ROAD WORK 500 FT
- RWA

= ROAD WORK AHEAD
- SRWA

= SIDE ROAD WORK AHEAD
- SRW500

= SIDE ROAD WORK 500 FT
- RWN

= ROAD WORK NEXT 11 1/2 MILES
- PCMS

= PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

1. SEE VAOT STANDARD E-100 FOR ADDITIONAL SIGN PLACEMENT.
2. CONSTRUCTION ZONE SIGN LAYOUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS AND SPECIAL PROVISIONS.
4. DIAMOND SHAPED SIGNS SHALL BE 4' X 4' WITH BLACK TEXT AND BORDER ON A RETROFLECTIVE FLUORESCENT ORANGE BACKGROUND.
5. RETROREFLECTIVE SHEETING SHALL BE TYPE IIIOR VIII AS NOTED ON VAOT STANDARD E-100 AND IN THE SPECIAL PROVISIONS.
6. CONSTRUCTION ZONE SIGNS SHALL BE INSTALLED AS OUTLINED IN THE SPECIAL PROVISIONS.
7. WHERE TEMPORARY SIGNS ARE PLACED BEHIND GUARDRAIL, THEY SHALL BE ADJUSTED SUCH THAT THE BOTTOM OF THE SIGNS IS ABOVE THE TOP OF GUARDRAIL.
8. AS THE PAVING OPERATION MOVES, FLAGGER SIGNS SHALL BE MOVED ACCORDINGLY. AT NO TIME SHOULD THE FLAGGER SYMBOL SIGN BE MORE THAN 1000 FEET FROM THE FLAGGER STATION. FLAGGER SIGNS SHALL BE COVERED OR TURNED AWAY FROM TRAFFIC WHEN FLAGGING OPERATIONS CEASE FOR LONGER THAN 15 MINUTES.
9. PAYMENT FOR CONSTRUCTION SIGNING WILL BE MADE UNDER ITEM 641.10 TRAFFIC CONTROL.
10. CONES SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPARATION FROM THE WORK SPACE ALONG ITS ENTIRE LENGTH.
11. PORTABLE CHANGEABLE MESSAGE SIGNS ARE OPTIONAL AND ARE TO BE USED AS DIRECTED BY THE VAOT RESIDENT ENGINEER. PAYMENT WILL BE MADE UNDER ITEM 641.15.



NOT TO SCALE

TEMPORARY TRAFFIC CONTROL PLAN

PROJECT NAME: BRADFORD - ORANGE

PROJECT NUMBER: SIP 2213(1)

FILE NAME: p99b178.dgn

PROJECT LEADER: JLL

DESIGNED BY: STANTEC

IPARM FILE: p99b178hcp.i

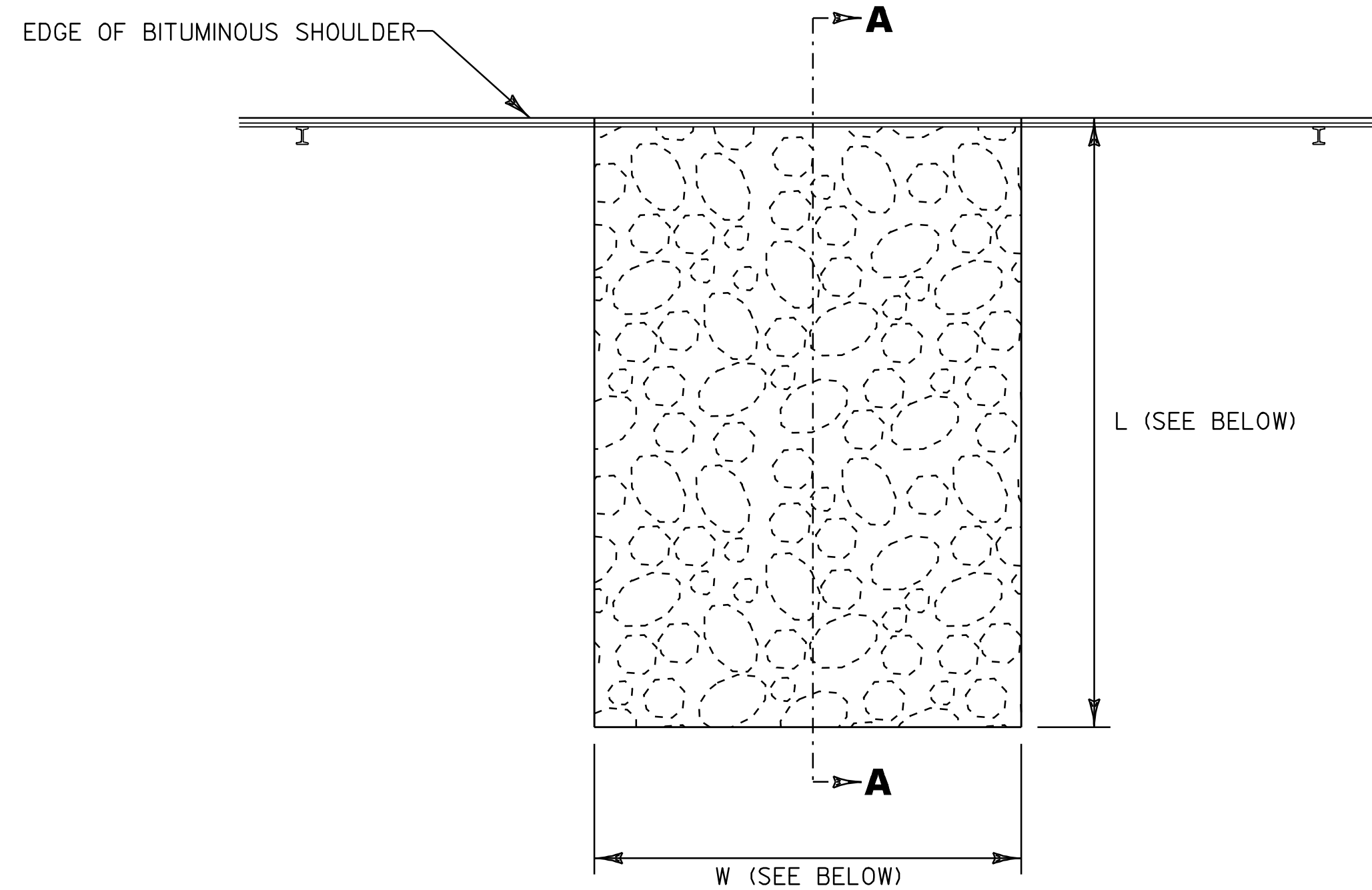
PLOT DATE: 28-MAY-2010 13:4

DRAWN BY: STANTEC

CHECKED BY: JLL

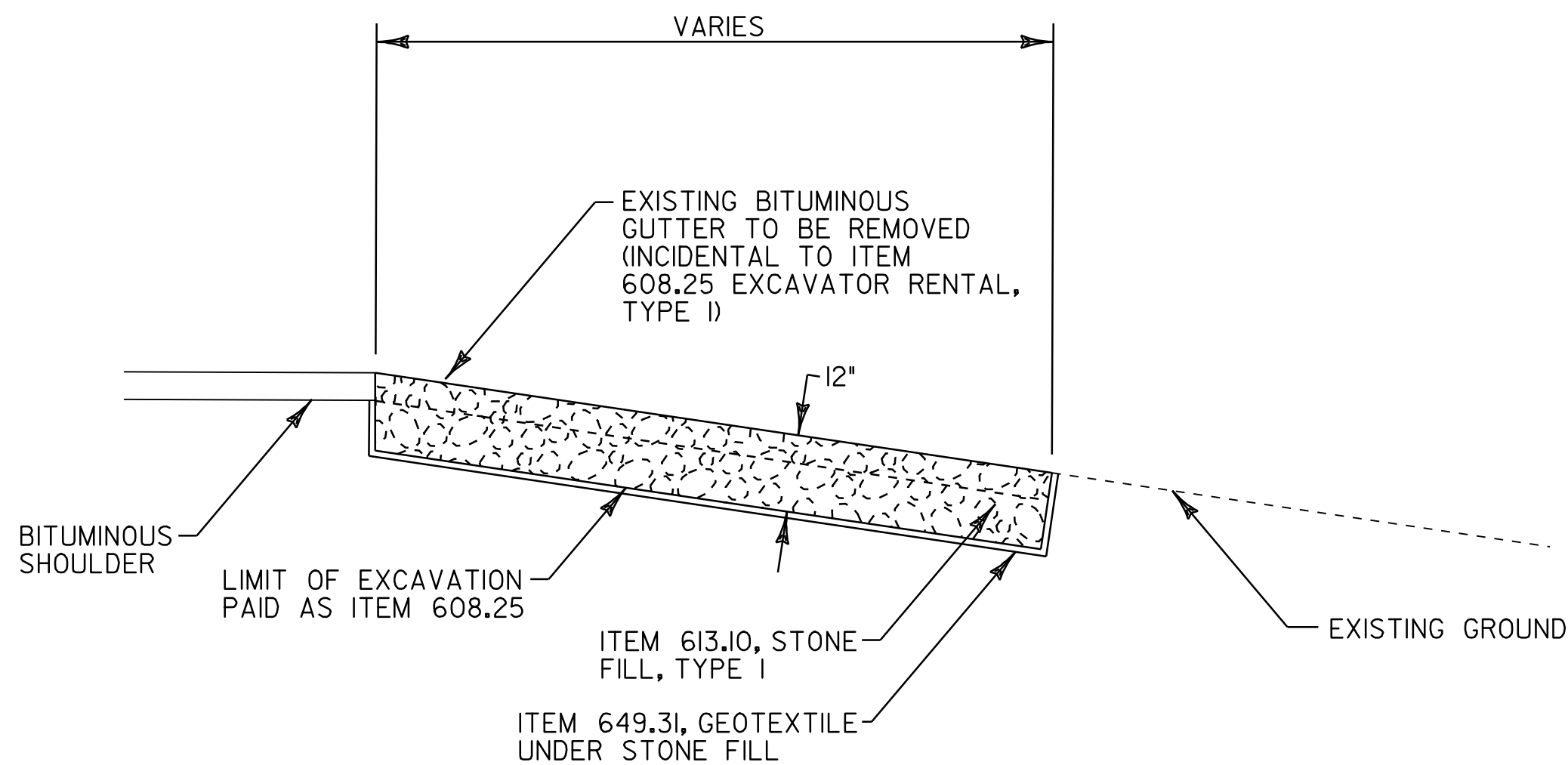
SHEET 82 OF 84

ROADWAY



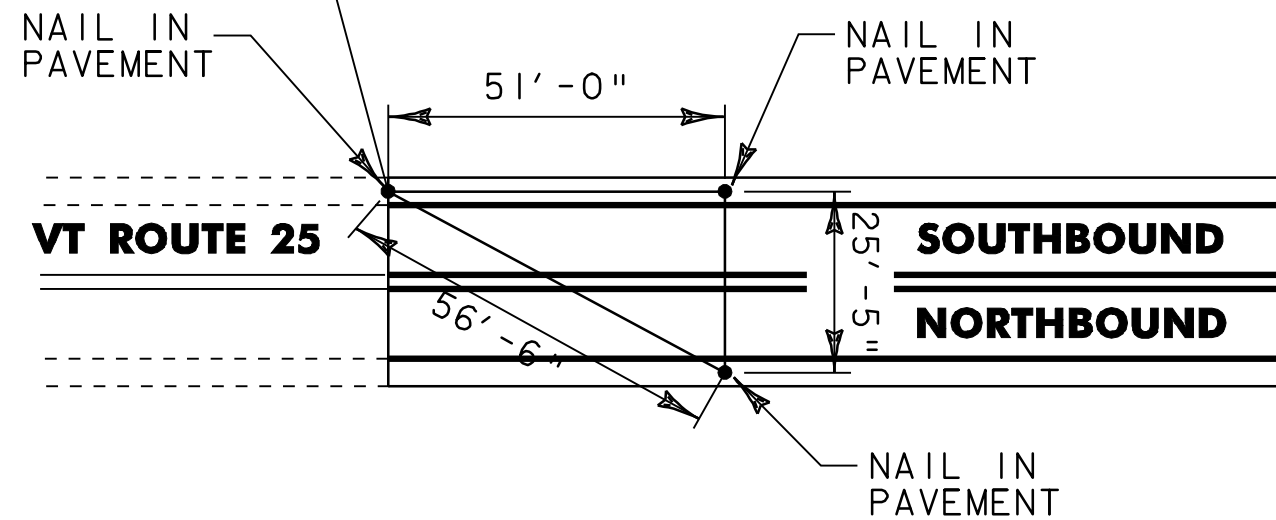
**STONE FILL, TYPE I SLOPE GUTTER
PLAN VIEW**

DIMENSIONS = (L x W x D)
TOPSHAM STA. 129+20, LT (10' x 5' x 1')
TOPSHAM STA. 267+27, RT (10' x 5' x 1')
TOPSHAM STA. 270+85, RT (10' x 5' x 1')

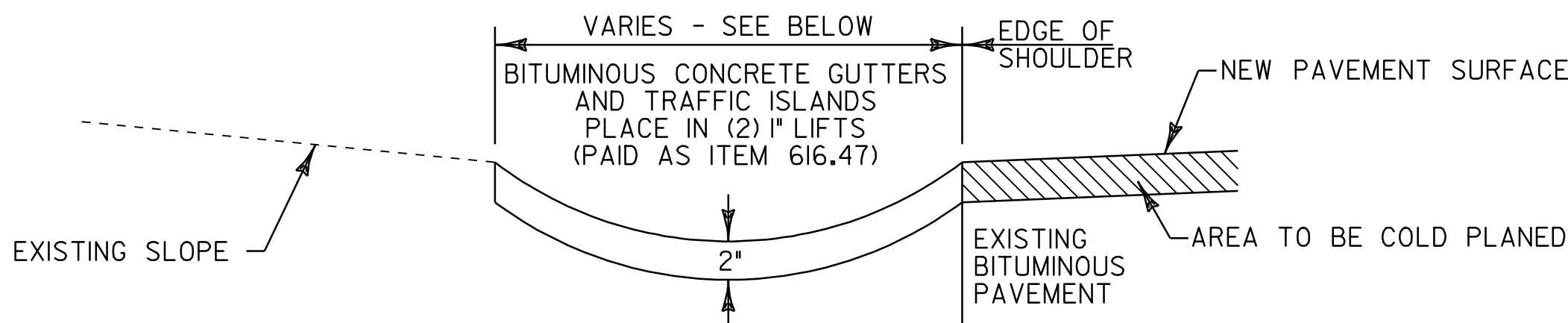


SECTION A-A

BEGIN STP 2213(1)
BRADFORD VT ROUTE 25
MM 6.297 = STA. 332+48.16

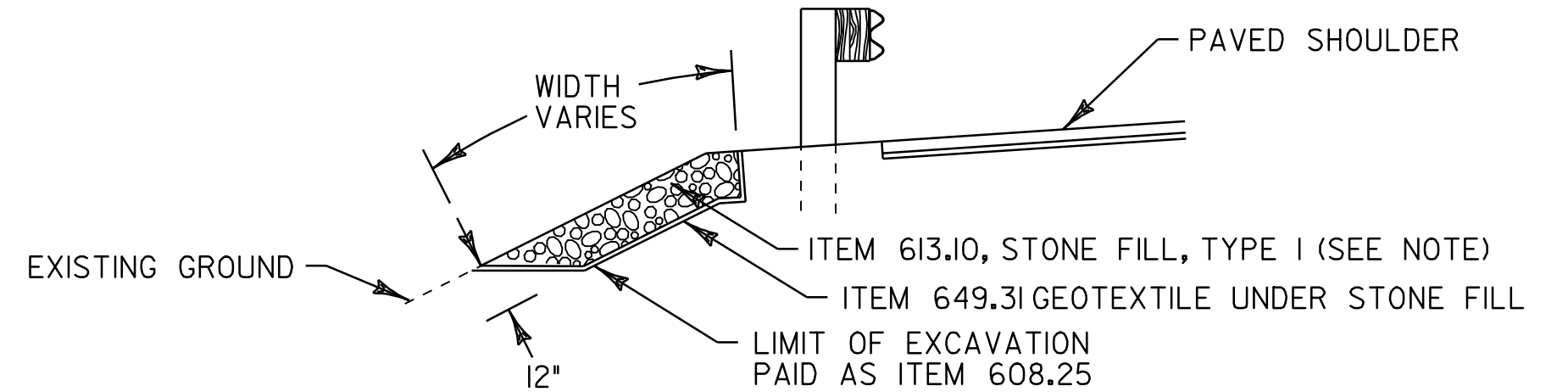


BEGIN PROJECT LOCATION TIES



BITUMINOUS CONCRETE GUTTER DETAIL

TOPSHAM STA. 240+70 TO 240+86, LT (4'-6' WIDE)
TOPSHAM STA. 242+11 TO 245+86, RT (4' WIDE)
TOPSHAM STA. 259+88 TO 261+96, RT (3' WIDE)



SLOPE EROSION REPAIR DETAIL

(ASSUME A 6' LENGTH UNLESS OTHERWISE NOTED)

BRADFORD STA. 345+31, LT
BRADFORD STA. 347+21, RT
CORINTH STA. 14+30, RT
CORINTH STA. 36+25, RT
CORINTH STA. 36+45, RT
CORINTH STA. 67+50, LT
CORINTH STA. 71+00, LT
CORINTH STA. 78+00 TO 78+50, RT (50' ±)
CORINTH STA. 87+16, LT
CORINTH STA. 139+15, RT
CORINTH STA. 152+77, RT
CORINTH STA. 156+48, RT
CORINTH STA. 157+99, RT
TOPSHAM STA. 60+06, LT (20' ±)
TOPSHAM STA. 85+44, LT
TOPSHAM STA. 87+66, RT
TOPSHAM STA. 94+23, RT
TOPSHAM STA. 100+96, LT
TOPSHAM STA. 193+40 TO 194+59, RT (120' ±)
TOPSHAM STA. 234+21, LT
TOPSHAM STA. 261+16 TO 261+23, RT (7' ±)
TOPSHAM STA. 268+83, RT
TOPSHAM STA. 280+29, LT
TOPSHAM STA. 280+82, LT
TOPSHAM STA. 280+91, LT
TOPSHAM STA. 302+07, RT
TOPSHAM STA. 318+34, LT
TOPSHAM STA. 334+49, LT
ORANGE STA. 5+83 TO 7+01, LT (118' ±)
ORANGE STA. 7+90 TO 8+60, LT (70' ±)

NOTE: AN ESTIMATED QUANTITY OF ITEM 613.11 STONE FILL,
TYPE II HAS BEEN INCLUDED FOR USE AS DIRECTED BY
THE RESIDENT ENGINEER.

NOT TO SCALE

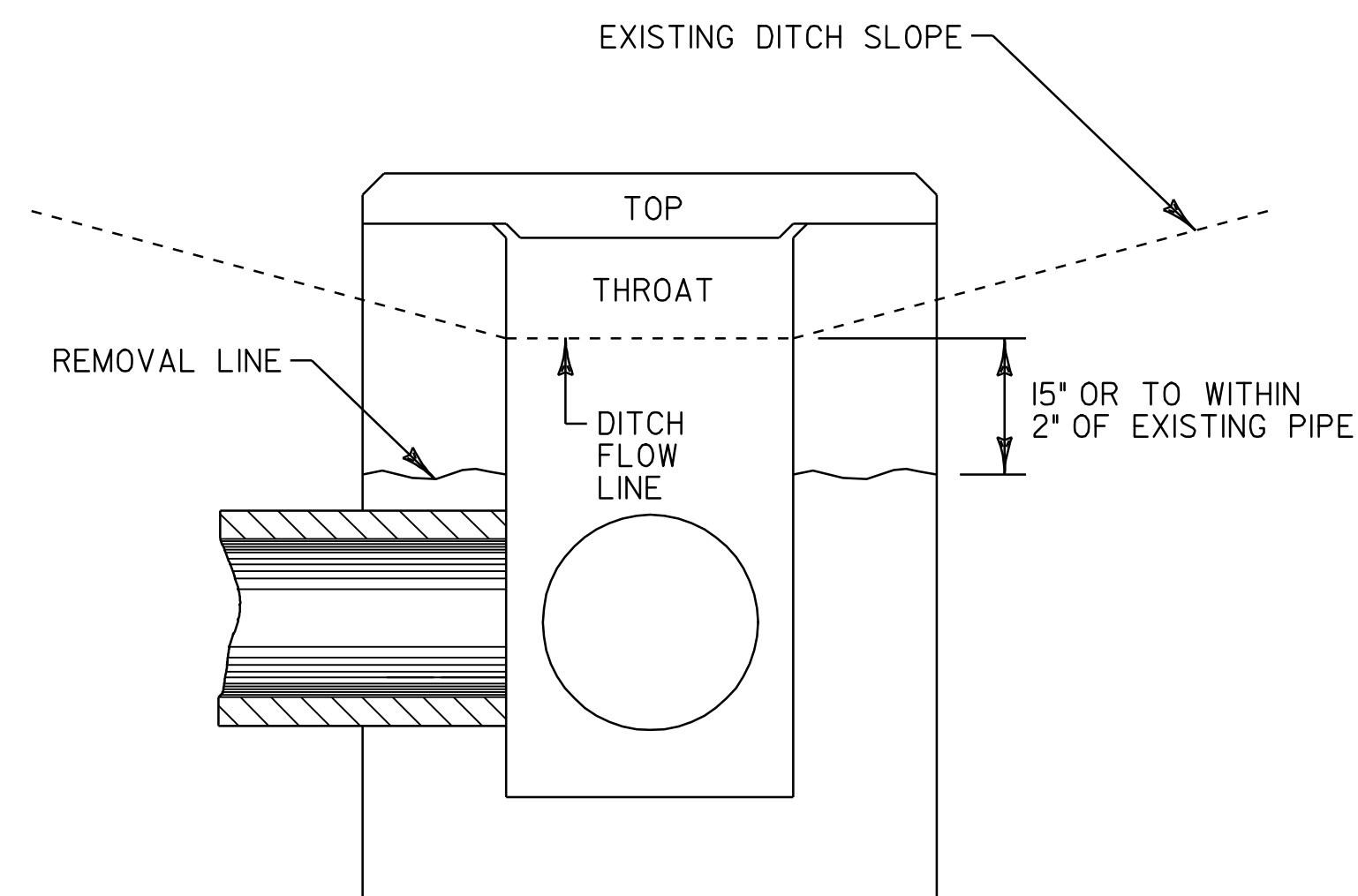
**MISCELLANEOUS
DETAIL
SHEET**



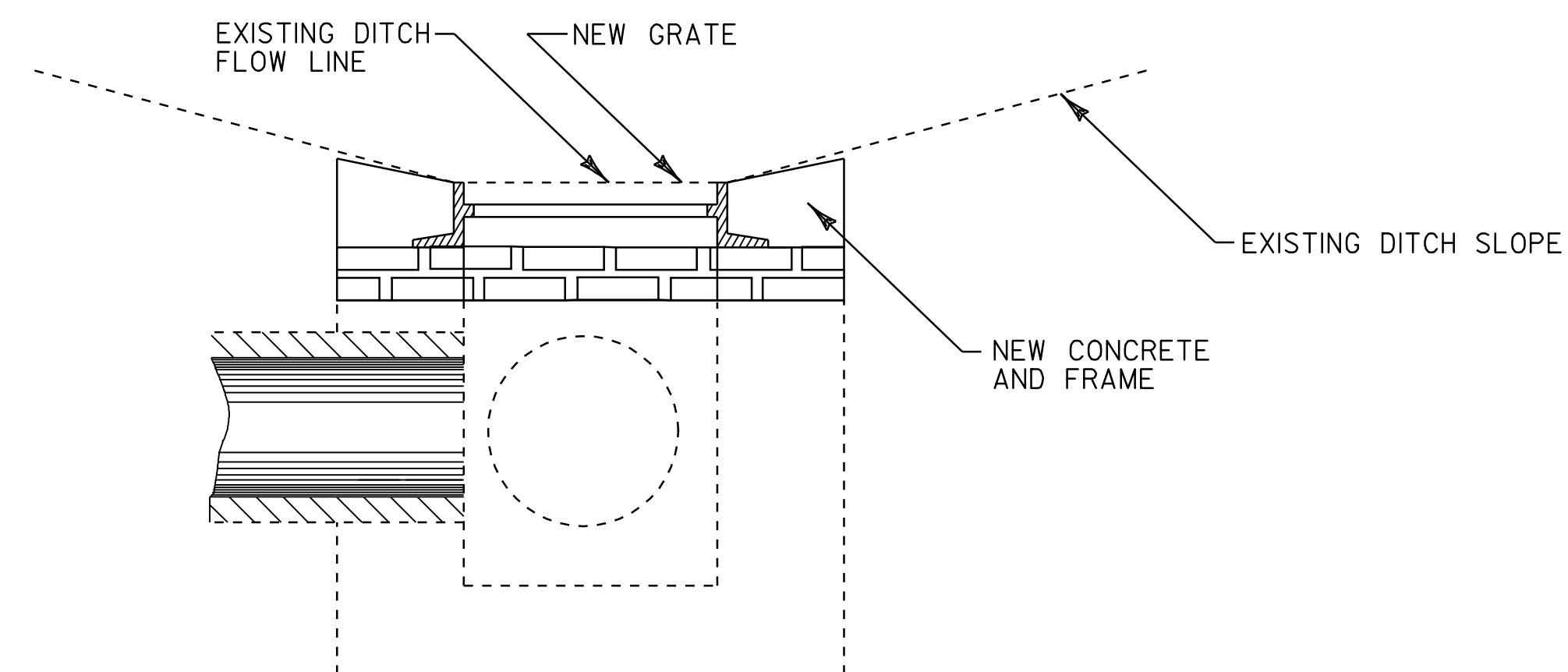
PROJECT NAME:	BRADFORD - ORANGE
PROJECT NUMBER:	STP 2213(1)
FILE NAME:	p99b178.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p99b178md.i
PLOT DATE:	28-MAY-2010 13:4
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	83 OF 84

REHAB. DI'S, CB'S or MH'S, CLASS I, II OR III
(ITEM 604.412, 604.415 OR 604.418)

VT ROUTE 25

[illegible]

THROAT D.I. TOP REMOVAL



NEW D.I. TOP PLACEMENT

NOTES:

1. REMOVE THROAT DROP INLET TOPS, PEDESTALS AND DROP INLET WALLS TO ACCOMMODATE NEW BRICKS, D.I. COVERS, FRAMES AND GRATES TO MAINTAIN EXISTING DITCH FLOW LINES (SEE VAOT STANDARD D-8 FOR EXISTING D.I. DETAILS).
2. REDUCE BRICK COURSES AS NECESSARY TO MAINTAIN EXISTING DITCH FLOW LINE.
3. SEE VAOT STANDARDS D-6 FOR CONCRETE TOP DETAIL AND D-16 FOR GRATE DETAIL.
4. ALL REMOVAL AND RECONSTRUCTION, INCLUDING ALL MATERIALS, LABOR AND INCIDENTALS SHALL BE PAID FOR UNDER ITEM 604.412, 604.415 OR 604.418 AS DIRECTED BY THE VAOT RESIDENT ENGINEER.
5. THESE DETAILS MAY NOT DEPICT ALL EXISTING CONDITIONS FOR ALL EXISTING D.I.'S. REHABILITATION MAY VARY, AS DIRECTED BY VAOT RESIDENT ENGINEER.

NOT TO SCALE

STRUCTURE DETAIL SHEET

PROJECT NAME: <u>BRADFORD - ORANGE</u>	
PROJECT NUMBER: <u>STP 2213(I)</u>	
FILE NAME: p99b178.dgn	PLOT DATE: 28-MAY-2010 13:54
PROJECT LEADER: <u>JLL</u>	DRAWN BY: <u>STANTEC</u>
DESIGNED BY: <u>STANTEC</u>	CHECKED BY: <u>JLL</u>
IPARM FILE: p99b178sd.i	SHEET <u>84</u> OF <u>84</u>

