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- G-1d 01-03-2000
- G-19 11-15-02
- J-3 08-07-95

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
TOWNS OF SHELDON & ENOSBURG
COUNTY OF FRANKLIN
VT ROUTE 105

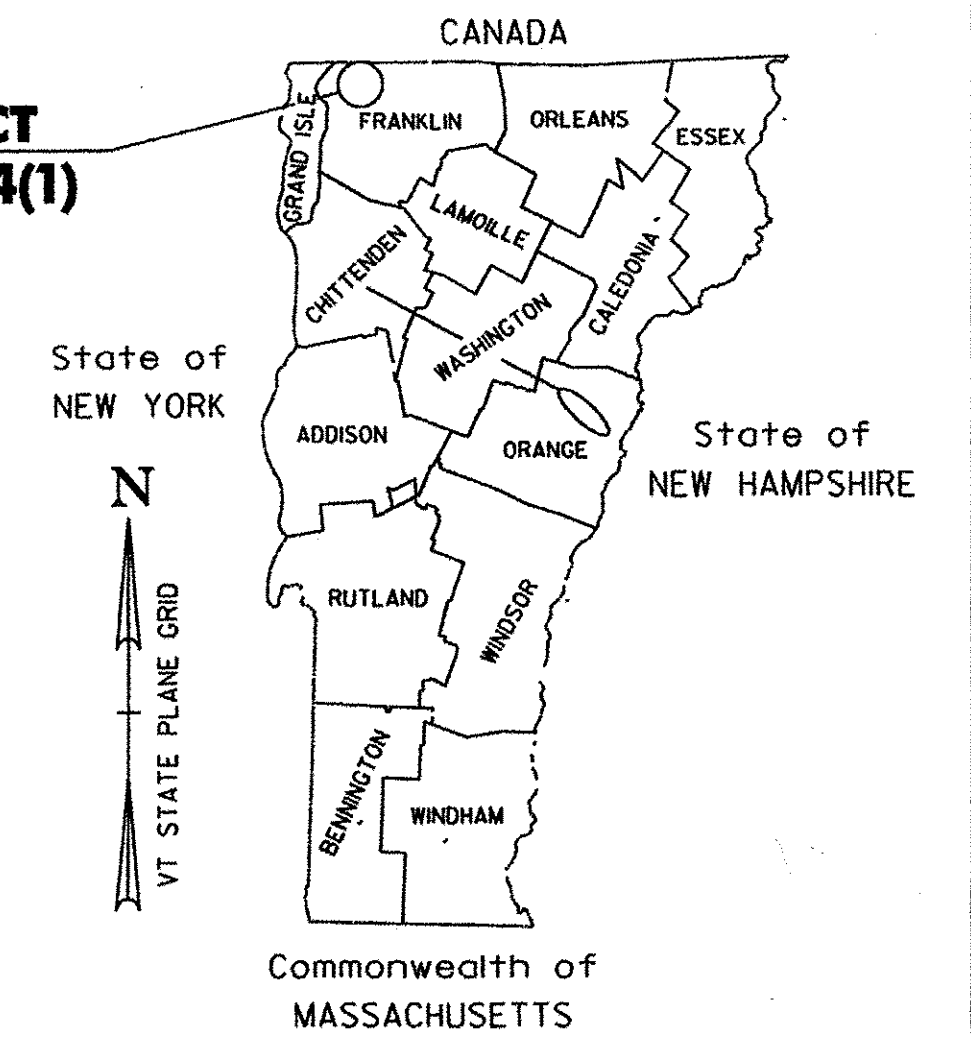
BEGINNING IN THE TOWN OF SHELDON AT MM 2.000 AND EXTENDING EASTERLY ALONG
VT ROUTE 105 FOR A DISTANCE OF 9.479 MILES TO MM 0.464 IN THE TOWN OF ENOSBURG.

RECORD PLANS	
CONTRACTOR:	PIKE INDUSTRIES, INC. - BERLIN, VT
RESIDENT ENGINEER:	JEFF COTA
CONSTRUCTION BEGAN:	APRIL 26, 2010
CONSTRUCTION COMPLETE:	AUGUST 4, 2010
RECORD PLANS BY:	JEFF COTA & AMOS KEMPTON
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY	RESIDENT ENGINEER
DATE	8/3/11
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 (MILES)
TOWN OF SHELDON VT ROUTE 105 MM 2.000 TO 11.015	9.015
TOWN OF ENOSBURG VT ROUTE 105 MM 0.000 TO 0.464	0.464
TOTAL LENGTH OF PROJECT:	9.479 MILES
TOTAL LENGTH OF ROADWAY:	9.479 MILES

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

PROJECT STP 2714(1)

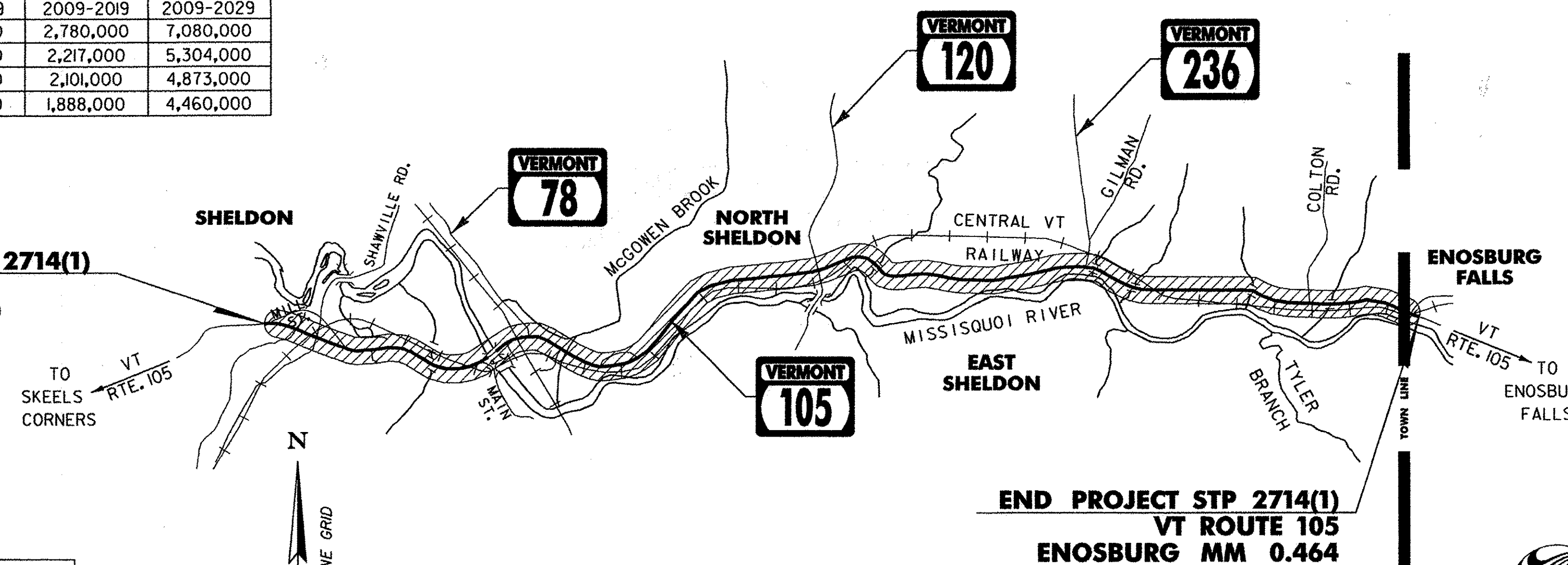


SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESALS	3,540,000
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADE ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS

LOCATION	AADT		DHV		ESALS	
	2009	2019	2009	2019	2009-2019	2009-2029
BEGIN PROJECT TO CONGRESS HALL ROAD (T.H. 43)	6400	7100	720	800	2,780,000	7,080,000
CONGRESS HALL ROAD TO VT ROUTE 120	6000	6700	680	760	2,217,000	5,304,000
VT ROUTE 120 TO VT ROUTE 236	5100	5600	580	630	2,101,000	4,873,000
VT ROUTE 236 TO END PROJECT	5300	5800	600	650	1,888,000	4,460,000

CONVENTIONAL SYMBOLS	
COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
GUARDRAIL	
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	

**BEGIN PROJECT STP 2714(1)
VT ROUTE 105
SHELDON MM 2.000**



**END PROJECT STP 2714(1)
VT ROUTE 105
ENOSBURG MM 0.464**

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

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.

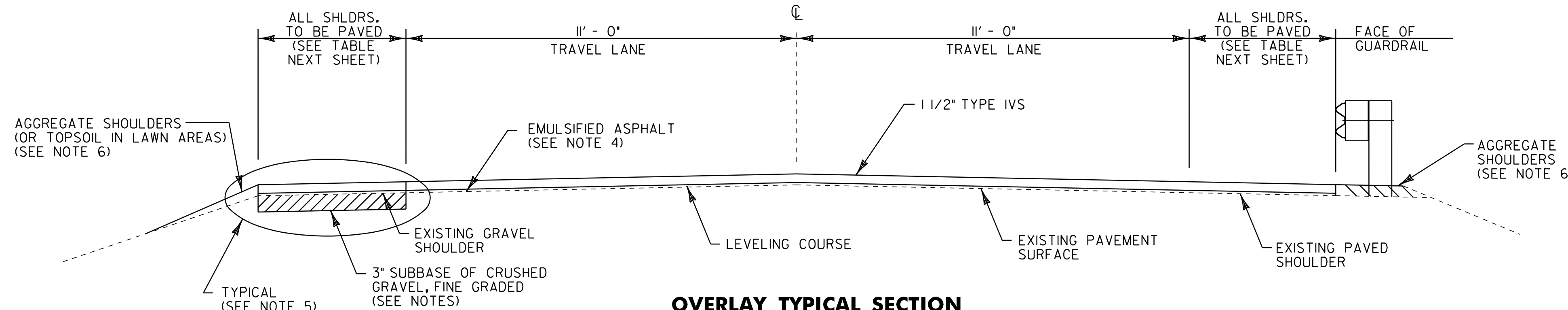
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS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

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



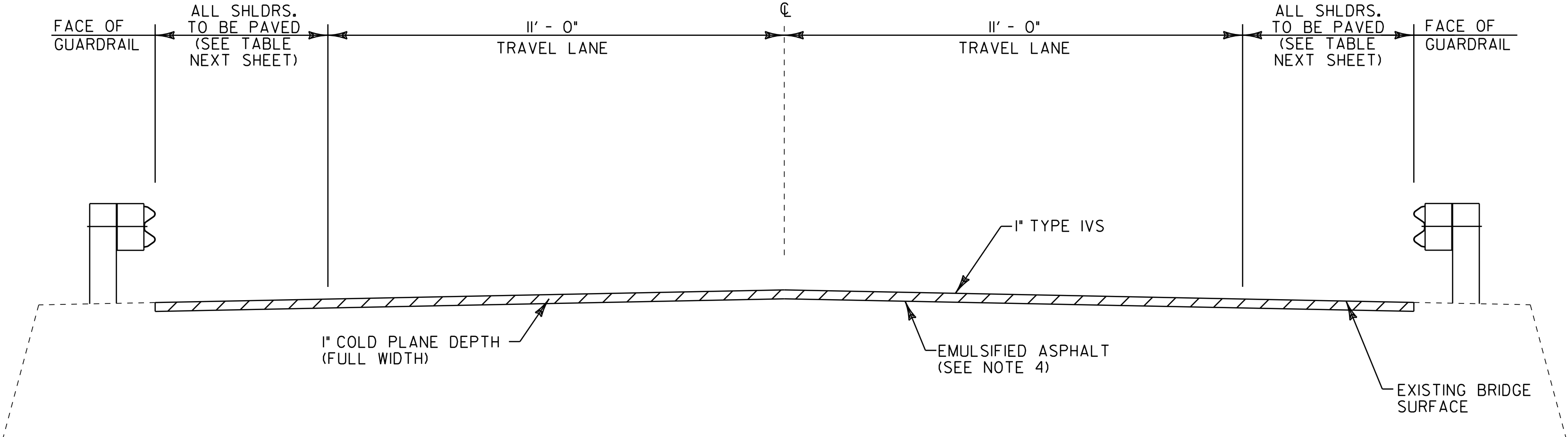
p07b180.dgn
p07b180+1.s

DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED	DATE 8/11/11
PROJECT MANAGER : TED DOMEY	
PROJECT NAME : SHELDON-ENOSBURG	
PROJECT NUMBER : STP 2714(1)	
SHEET 1 OF 29 SHEETS	



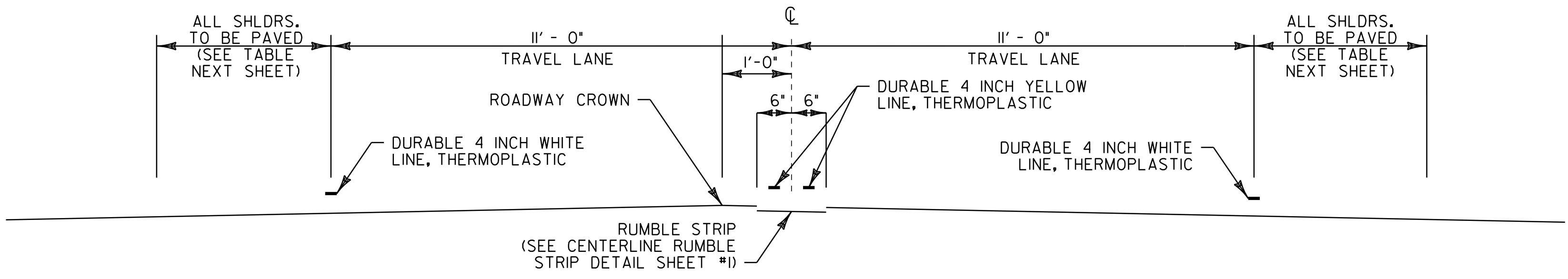
OVERLAY TYPICAL SECTION

SHELDON
 MM 2,000 - 4,054
 MM 4,168 - 9,099
 MM 9,101 - 9,962
 MM 9,964 - 10,520
 MM 10,522 - 11,015
 ENOSBURG
 MM 0,000 - 0,464



COLD PLANE TYPICAL SECTION - BRIDGE NOS. 14, 15, AND 16

SHELDON
 MM 9,099 - 9,101 (BRIDGE NO. 14)
 MM 9,962 - 9,964 (BRIDGE NO. 15)
 MM 10,520 - 10,522 (BRIDGE NO. 16)



RUMBLE STRIP TYPICAL SECTION

SHELDON
 MM 4,700 - 7,043
 MM 7,049 - 9,247
 MM 9,253 - 11,015
 ENOSBURG
 MM 0,000 - 0,105
 MM 0,111 - 0,120

NOTES

1. THE PAVEMENT WEARING COURSE SHALL BE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS. THE ESTIMATED 1/2" LEVELING COURSE SHALL BE SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
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 RESIDENT ENGINEER. PAYMENT FOR THIS WORK WILL NOT BE MADE DIRECTLY, BUT WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
3. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = ± 1/4". (TOTAL THICKNESS EXCLUDING LEVELING)
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 RESIDENT ENGINEER.
5. EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE RESIDENT ENGINEER, SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE RESIDENT ENGINEER.

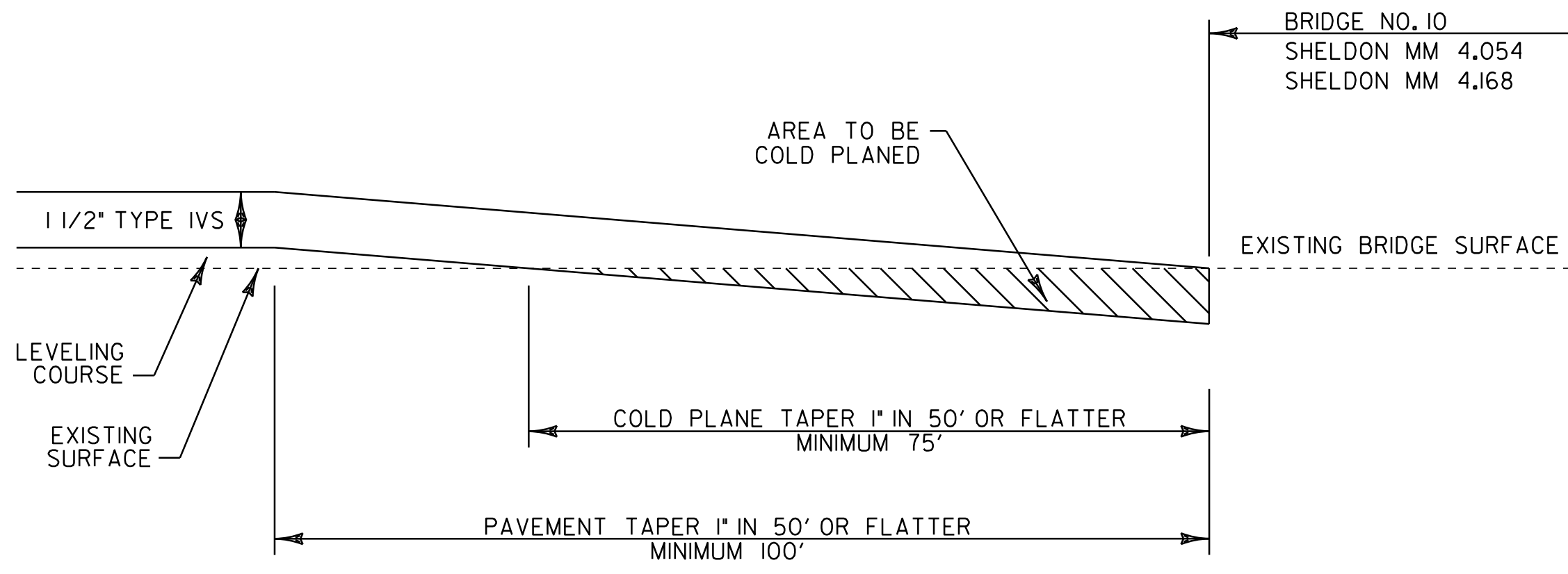
EXCAVATION WILL BE PAID FOR AS ALL PURPOSE EXCAVATOR RENTAL, TYPE I OR POWER GRADER RENTAL.

MATERIAL REMOVED SHALL BE REPLACED WITH ITEM 301.26 SUBBASE OF CRUSHED GRAVEL, FINE GRADED AS DIRECTED BY THE RESIDENT ENGINEER. BECAUSE OF THE LIMITED DEPTH (3" ±) OF THIS ITEM, THE SUBBASE COMPACTION REQUIREMENT PER VAOT SPECIFICATION SECTION 301.06 IS WAIVED FOR THESE SITUATIONS AS DIRECTED BY THE RESIDENT ENGINEER.

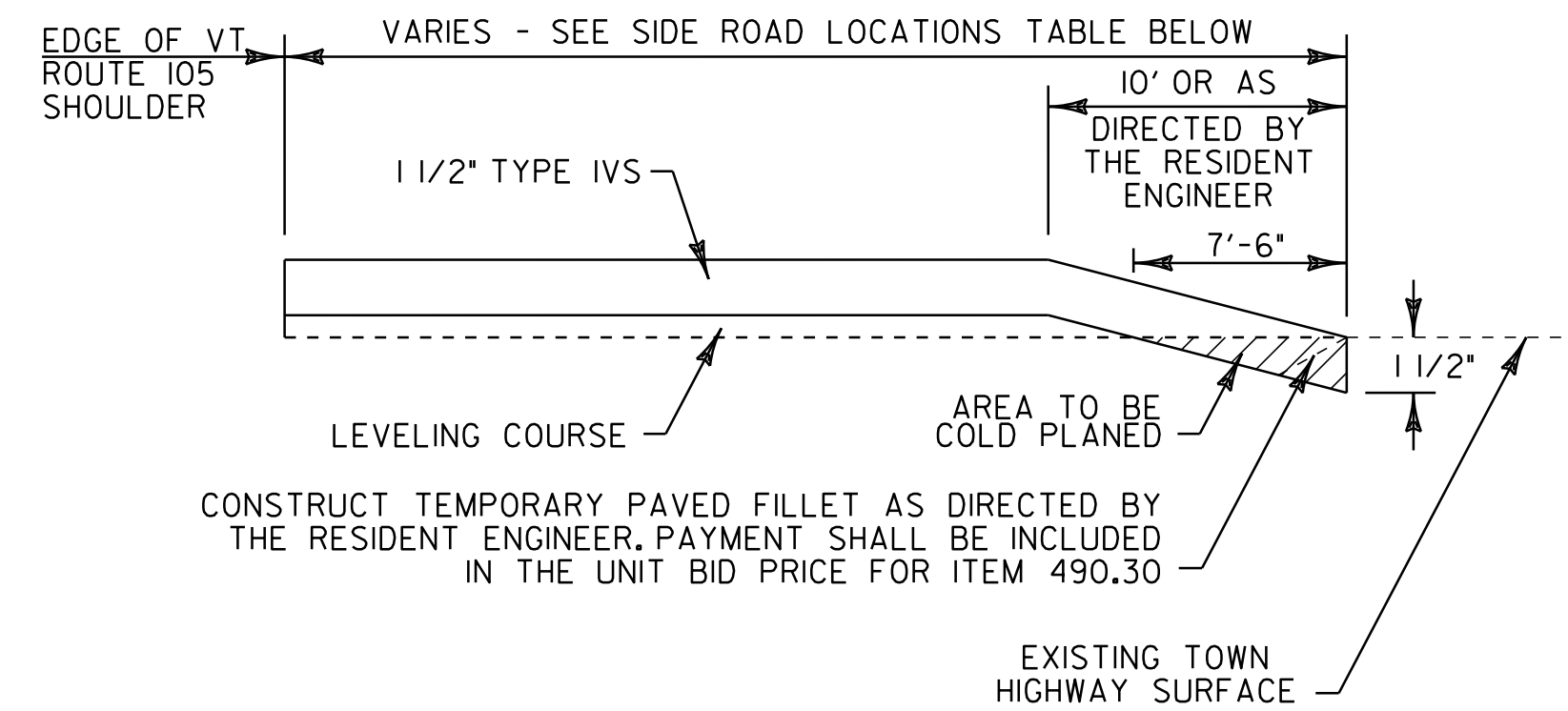
EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM PROJECT, AS DIRECTED BY THE RESIDENT ENGINEER.
6. ITEM 402.12 AGGREGATE SHOULDERS SHALL BE USED TO BACK UP THE NEW PAVEMENT OVERLAY AS DIRECTED BY THE RESIDENT ENGINEER.
7. ESTIMATED QUANTITIES OF ITEMS 608.25 ALL PURPOSE EXCAVATOR 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.
8. THE PROPOSED GUARDRAIL SHALL BE INSTALLED A MINIMUM OF 16 FT FROM THE CENTER OF THE ROAD OR IN A LOCATION THAT MAXIMIZES THE DISTANCE FROM THE CENTER OF THE ROAD TO THE FACE OF GUARDRAIL AS DIRECTED BY THE 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.
9. ALL DRIVES SHALL RECEIVE A PAVED APRON AS DIRECTED BY THE RESIDENT ENGINEER. SEE THE DRIVE DETAIL SHEETS FOR DETAILS, PAYMENT PROVISIONS AND LOCATIONS.
10. 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 RESIDENT ENGINEER.
11. QUANTITIES FOR ITEMS 604.412, 604.415 AND 604.418 REHAB. DROP INLETS, CATCH BASINS OR MANHOLES, CLASS I, II AND III AND ITEM 604.40 CHANGING ELEVATION OF D'S, CB'S OR MH'S HAVE BEEN INCLUDED IN THE QUANTITIES TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER. ALL D'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION IS EVEN WITH THE SURROUNDING TERRAIN. DRAINAGE STRUCTURES CALLING FOR REHAB HAVE BEEN EVENLY DISTRIBUTED BETWEEN ITEMS 604.412, 604.415 AND 604.418 FOR ESTIMATING PURPOSES.
12. STEEL BEAM GUARDRAIL WITH STEEL POSTS SHALL BE USED ON THIS PROJECT.



PROJECT TYPICAL SHEET #1	PROJECT NAME: SHELDON-ENOSBURG	PLOT DATE: 07-NOV-2011 16:45
	PROJECT NUMBER: STP 2714(I)	DRAWN BY: STANTEC
	FILE NAME: p07b180.dgn	CHECKED BY: JLL
	PROJECT LEADER: JLL DESIGNED BY: STANTEC IPARM FILE: p07b180pts01.i	SHEET 2 OF 29



TRANSITION AREA DETAIL AT BRIDGE NO. 10
FULL ROADWAY WIDTH



APPROACH AREA DETAIL - TOWN HIGHWAYS
FULL WIDTH OF TOWN HIGHWAY

NOTE: THIS DETAIL SHALL BE USED FOR THE SIDE ROADS LISTED IN THE TABLE BELOW AS DIRECTED BY THE RESIDENT ENGINEER.

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.

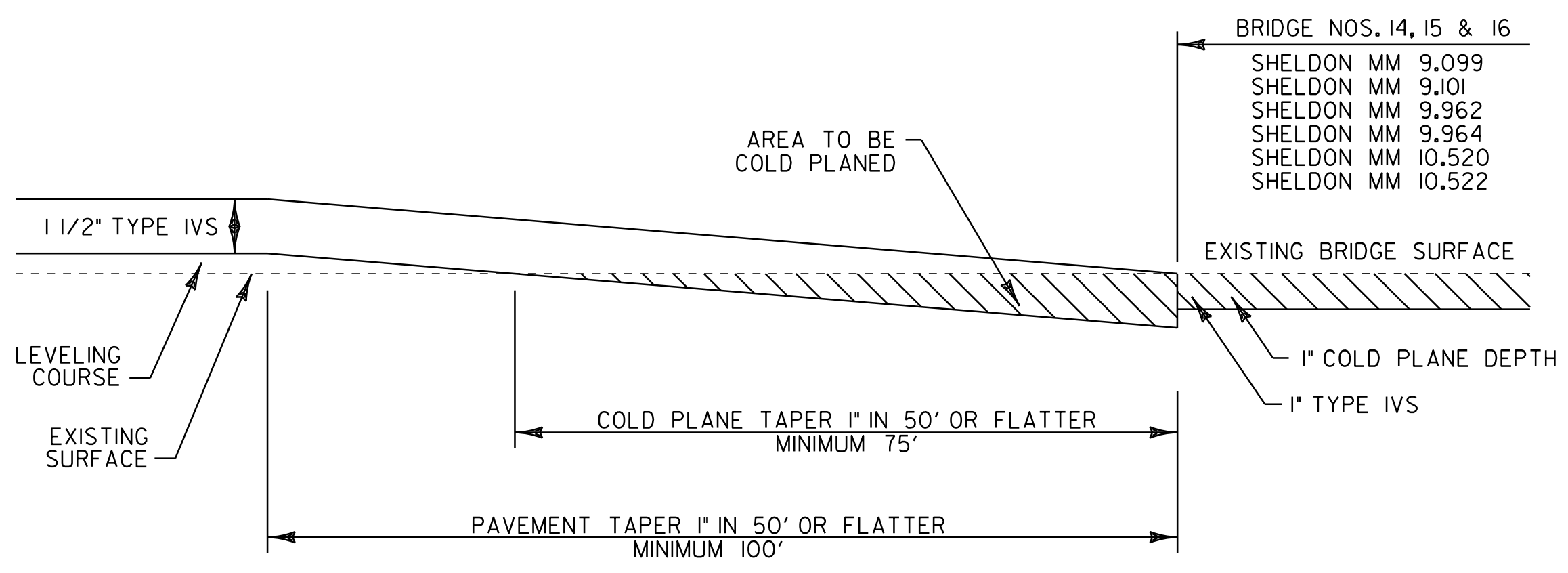
SEED:
TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

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 RESIDENT ENGINEER.

TEMPORARY EROSION MATTING (ITEM 653.20):
TO BE PLACED ON EARTH SLOPES AS DIRECTED BY THE RESIDENT ENGINEER.

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

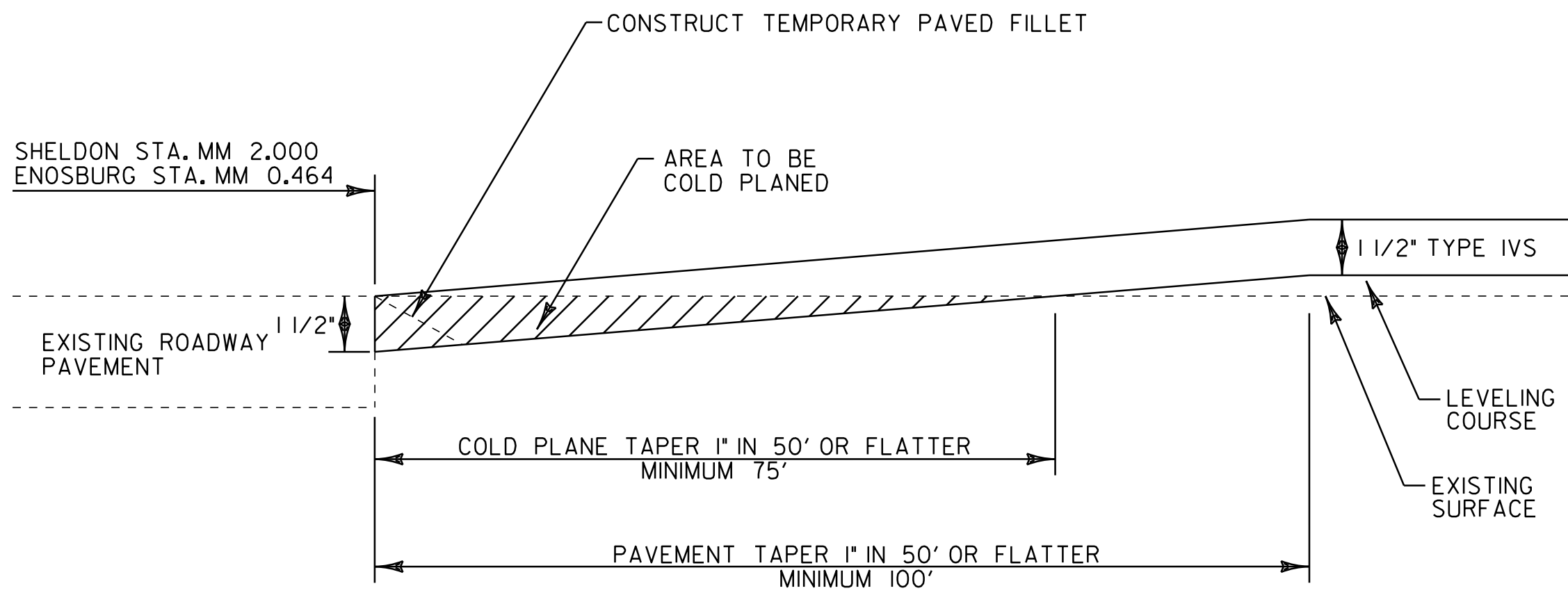


TRANSITION AREA DETAIL AT BRIDGE NO'S. 14, 15 & 16
(LEVEL AND OVERLAY TO COLD PLANE)
FULL ROADWAY WIDTH

SIDE ROAD LOCATIONS

NAME	STATION (MM)	POS.	PAVEMENT LENGTH (FT)
SHELDON VT ROUTE 105			
MILL STREET (TH 43)	2.354	LT	102
SHAWVILLE ROAD (TH 28)	2.752	LT	25
SWEET HOLLOW ROAD (TH 28)	2.752	RT	25
MILL STREET (TH 1)	3.006	LT	162
SCHOOL STREET (TH 48)	3.027	RT	25
POOR FARM ROAD (TH 29)	3.148	RT	25
BERGERON ROAD (TH 21)	3.632	LT	25
MAIN STREET (TH 4)	3.879	RT	25
CLARK ROAD (TH 47)	4.245	LT	25
SEVERANCE ROAD (TH 41)	4.245	RT	25
VT ROUTE 78	4.425	LT	25
CASINO ROAD (TH 40)	4.679	RT	100
SHELDON HEIGHTS (TH 52)	4.727	LT	25
DANYOW ROAD (TH 39)	4.957	LT	50
DANYOW ROAD (TH 39)	5.243	LT	25
VT ROUTE 120	6.711	LT	25
KANE ROAD (TH 3)	6.711	RT	25
VT ROUTE 236	8.720	LT	25
COLTON ROAD (TH 8)	10.398	LT	11
ENOSBURG VT ROUTE 105			
ORCHARD STREET (TH 8)	0.097	LT	25
ST. ALBANS STREET (TH 7)	0.303	RT	25
CENTER STREET	0.426	RT	25

BEGIN STATION (MM)	END STATION (MM)	LENGTH (FT)	TYPICAL LANE CONFIGURATION (FT)	PROP PVMT WIDTH (FT)	EXIST PVMT WIDTH (FT)	WEARING DEPTH (IN)	LEVELING DEPTH (IN)	NOTES
SHELDON VT ROUTE 105								
2.000	2.557	2941	5 - II - II - 5	32	28	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
2.557	2.746	998	3 - II - II - 3	28	27	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
2.746	4.054	6907	5 - II - II - 5	32	28	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
4.054	4.168	602	-	-	29	-	-	BRIDGE NO. 10 (NO TREATMENT)
4.168	4.912	3929	5 - II - II - 5	32	28	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
4.912	5.088	930	3 - II - II - 5	30	29	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
5.088	5.398	1637	5 - II - II - 5	32	28	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
5.398	5.587	998	5 - II - II - 3	30	28	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
5.587	7.008	7503	4 - II - II - 4	30	28	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
7.008	7.055	249	9 - II - II - 9	40	40	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
7.055	7.102	249	10 - II - II - 10	42	42	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
7.102	7.292	1004	11 - II - II - 8	41	41	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
7.292	7.561	1421	9 - II - II - 9	40	40	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
7.561	7.765	1078	5 - II - II - 4	31	27	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
7.765	9.099	7044	3 - II - II - 4	29	27	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
9.099	9.101	11	2 - II - II - 2	26	26	1"	-	BRIDGE NO. 14, COLD PLANE 1" + 1" TYPE IVS
9.101	9.962	4547	3 - II - II - 3	28	27	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
9.962	9.964	11	2 - II - II - 2	26	26	1"	-	BRIDGE NO. 15, COLD PLANE 1" + 1" TYPE IVS
9.964	10.520	2936	3 - II - II - 3	28	27	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
10.520	10.522	11	2 - II - II - 3	27	27	1"	-	BRIDGE NO. 16, COLD PLANE 1" + 1" TYPE IVS
10.522	11.015	3058	4 - II - II - 4	30	27	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
ENOSBURG VT ROUTE 105								
0.000	0.095	502	4 - II - II - 4	30	27	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
0.095	0.189	497	2 - II - II - 4	28	25	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
0.189	0.379	1004	5 - II - II - 4	31	29	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
0.379	0.461	433	11 - II - II - 9	42	42	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS
0.461	0.464	22	5 - II - II - 5	32	32	1 1/2"	1/2"	LEVEL 1/2" TYPE IVS + 1 1/2" TYPE IVS



APPROACH AREA DETAIL
(BEGIN AND END LEVELING AND OVERLAY)
FULL ROADWAY WIDTH

VT ROUTE 105 SHELDON MM 2.000 - BEGIN PROJECT
VT ROUTE 105 ENOSBURG MM 0.464 - END PROJECT



PROJECT TYPICAL SHEET #2

PROJECT NAME: SHELDON-ENOSBURG	PLOT DATE: 07-NOV-2011 16:45
PROJECT NUMBER: STP 2714(1)	DRAWN BY: STANTEC
FILE NAME: p07b180.dgn	CHECKED BY: JLL
PROJECT LEADER: JLL	SHEET 3 OF 29
DESIGNED BY: STANTEC	
IPARM FILE: p07b180pts02.i	

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES					TOTALS	DESCRIPTIONS	ITEM NO.	ROUND	
ALTERNATE A ROADWAY	ALTERNATE B ROADWAY	EROSION CONTROL	FULL C.E. ITEMS	ROADWAY	GRAND TOTAL	UNIT	ITEMS		
				22	22	CY	BEGIN ITEMS COMMON TO ALL ALTERNATES COMMON EXCAVATION	203.15	1
				22	22	CY	EXCAVATION OF SURFACES AND PAVEMENTS	203.28	1
				550	550	CY	EARTH BORROW	203.30	EST.
				1	1	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	EST.
				3550	3550	SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	23
				34000	34000	LF	MILLED RUMBLE STRIPS	213.10	398
				1150	1150	CY	SUBBASE OF CRUSHED GRAVEL, FINE GRADED	301.26	11
				1785	1785	TON	AGGREGATE SHOULDERS	402.12	14
				740	740	CWT	EMULSIFIED ASPHALT	404.65	2.1
				1	1	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-
				1	1	EACH	CHANGING ELEVATION OF DROP INLETS, CATCH BASINS, OR MANHOLES	604.40	EST.
				4	4	EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	EST.
				4	4	EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	EST.
				3	3	EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS III	604.418	EST.
				1	1	EACH	CHANGING ELEVATION OF SEWER MANHOLES	604.42	EST.
				250	250	HR	POWER GRADER RENTAL	608.15	EST.
				250	250	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.
				150	150	HR	POWER BROOM RENTAL, TYPE I	608.30	EST.
				250	250	HR	TRUCK RENTAL	608.37	EST.
				250	250	HR	LOADER RENTAL, TYPE I	608.40	EST.
			215		215	CY	STONE FILL, TYPE I	613.10	2
			50		50	CY	STONE FILL, TYPE II	613.11	EST.
				520	520	LF	TREATED TIMBER CURB	616.35	4
				115	115	TON	BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS	616.47	0.7
				2	2	EACH	RELOCATE MAILBOX, SINGLE SUPPORT	617.10	-
				122	122	EACH	YIELDING MARKER POSTS	619.17	EST.
				8200	8200	LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	37.5
				775	775	LF	STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS	621.205	-
				50	50	LF	STEEL BEAM GUARDRAIL, GALVANIZED/NESTED	621.206	-
				27	27	EACH	MANUFACTURED TERMINAL SECTION, FLARED	621.50	-
				15	15	EACH	ANCHOR FOR STEEL BEAM RAIL	621.60	-
				6968	6968	LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	-
				1	1	EACH	ADJUST ELEVATION OF VALVE BOX	629.20	EST.
				1300	1300	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.
				3900	3900	HR	FLAGGERS	630.15	EST.
				1	1	LS	FIELD OFFICE, ENGINEERS	631.10	-
				1	1	LS	TESTING EQUIPMENT, CONCRETE	631.16	-

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
		COLD PLANING, BITUMINOUS PAVEMENT
521	SY	MAINLINE
2118	SY	BRIDGES
888	SY	SIDERoadS
23	SY	ROUNDING
3550	SY	TOTAL
		STONE FILL, TYPE I
196	CY	DITCH CLEANING
17	CY	SLOPE REPAIR
2	CY	ROUNDING
215	CY	TOTAL

PROJECT NAME: SHELDON-ENOSBURG
PROJECT NUMBER: STP 2714(I)

FILE NAME: p07b180.dgn PLOT DATE: 07-NOV-2011 16:46
PROJECT LEADER: JLL DRAWN BY: STANTEC
DESIGNED BY: STANTEC CHECKED BY: JLL
IPARM FILE: p07b180qs01.i SHEET 4 OF 29

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES					TOTALS	DESCRIPTIONS	ITEM NO.	ROUND	
ALTERNATE A ROADWAY	ALTERNATE B ROADWAY	EROSION CONTROL	FULL C.E. ITEMS	ROADWAY	GRAND TOTAL	UNIT	ITEMS		
			1		1	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-
			1		1	LU	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.25	-
				1	1	LS	MOBILIZATION/DEMOBILIZATION	635.11	-
				1	1	LS	TRAFFIC CONTROL	641.10	-
				2	2	EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-
				101100	101100	LF	DURABLE 4 INCH WHITE LINE, THERMOPLASTIC	646.402	156
				90200	90200	LF	DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC	646.412	139
				345	345	LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	3
				96	96	EACH	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	-
				100	100	LF	DURABLE CROSSWALK MARKING, THERMOPLASTIC	646.502	5
				101100	101100	LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	156
				90200	90200	LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	139
				345	345	LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	3
				96	96	EACH	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	-
				100	100	LF	TEMPORARY CROSSWALK MARKING, PAINT	646.702	5
				5300	5300	EACH	LINE STRIPING TARGETS	646.76	28
		1360			1360	SY	GEOTEXTILE UNDER STONE FILL	649.31	7.4
		36			36	LB	SEED	651.15	EST.
		295			295	LB	FERTILIZER	651.18	EST.
		1.3			1.3	TON	AGRICULTURAL LIMESTONE	651.20	EST.
		70			70	CY	TOPSOIL	651.35	EST.
		7600			7600	SY	TEMPORARY EROSION MATTING	653.20	43
				413	413	SF	TRAFFIC SIGNS, TYPE A	675.20	0.73
				1400	1400	LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	5
				108	108	EACH	REMOVING SIGNS	675.50	-
				14	14	EACH	ERECTING SALVAGED SIGNS	675.60	-
				40	40	EACH	DELINEATOR WITH STEEL POST	676.10	-
				36	36	EACH	REMOVAL OF EXISTING DELINEATOR	676.12	-
				27	27	EACH	REMOVE AND REPLACE REFLECTOR UNIT	676.15	-
				1	1	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-
				2080	2080	SY	SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES) END ITEMS COMMON TO ALL ALTERNATES	900.675	23
							BEGIN ALTERNATE A		
20050					20050	TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	189
	1				1	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-
	1				1	LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-
	1				1	LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	-
	1				1	LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.) END ALTERNATE A	490.34	-

DETAILED SUMMARY OF QUANTITIES		
QUANTITIES	UNIT	ITEMS
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
14,260	TON	MAINLINE WEARING COURSE (TYPE IVS)
398	TON	SIDEROADS (TYPE IVS)
308	TON	PULLOUTS (TYPE IVS)
5	TON	BRIDGES (TYPE IVS)
4890	TON	LEVELING (TYPE IVS)
189	TON	ROUNDING
20,050	TON	TOTAL
		GEOTEXTILE UNDER STONE FILL
880	SY	DITCH CLEANING
472.6	SY	SLOPE REPAIR
7.4	SY	ROUNDING
1360	SY	TOTAL
		TEMPORARY EROSION MATTING
4132	SY	DITCH CLEANING
625	SY	M.T.S. CONSTRUCTION
2420	SY	SEED PROTECTION
380	SY	EXCAVATION OF SURFACES AND PAVEMENTS
43	SY	ROUNDING
7600	SY	TOTAL

PROJECT NAME:	SHELDON-ENOSBURG
PROJECT NUMBER:	STP 2714(I)
FILE NAME:	p07b180.dgn
PROJECT LEADER:	JLL
DESIGNED BY:	STANTEC
IPARM FILE:	p07b180qs02.i
PLOT DATE:	07-NOV-2011 16:46
DRAWN BY:	STANTEC
CHECKED BY:	JLL
SHEET	5 OF 29

ITEM DETAIL SUMMARY SHEET 1

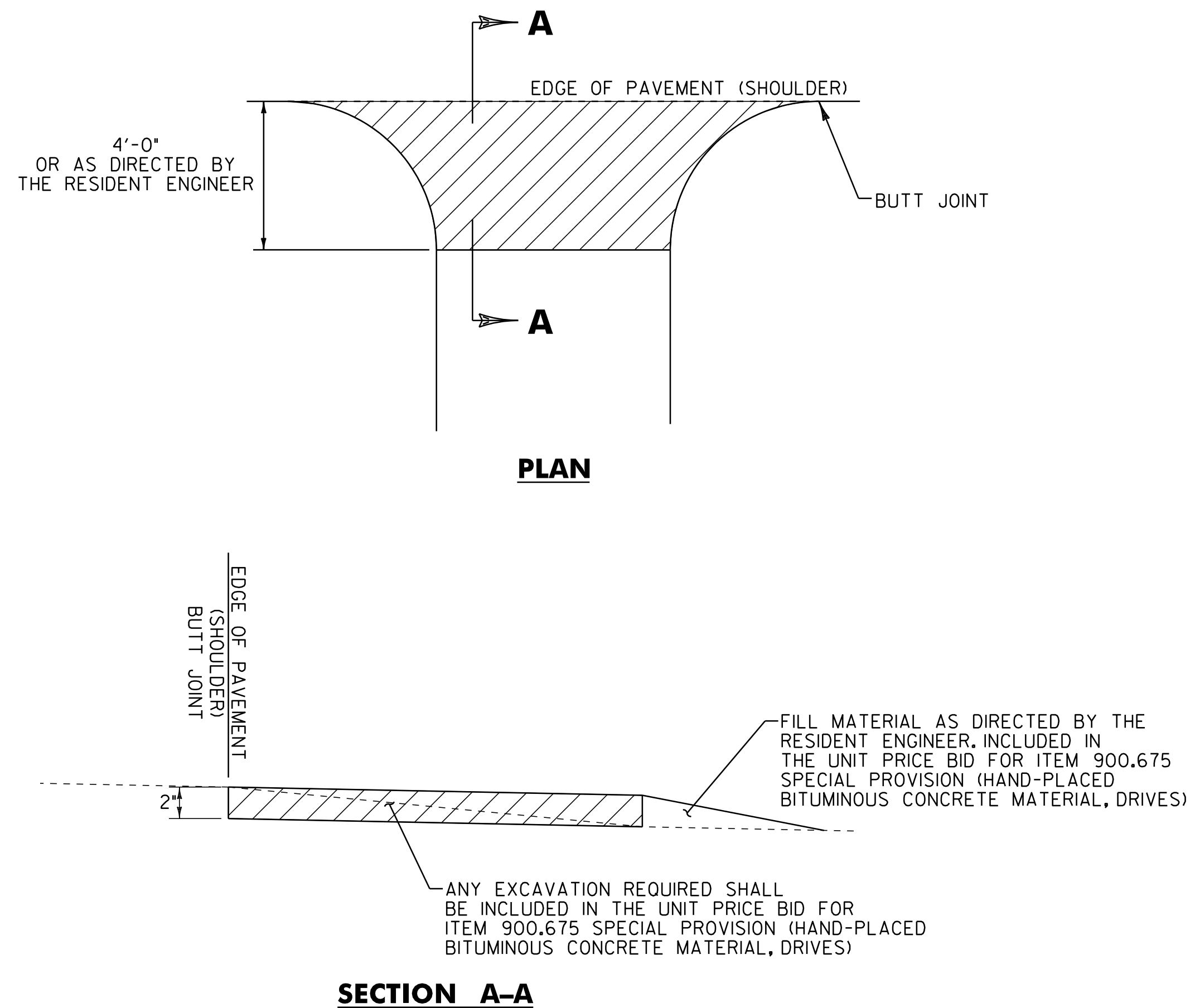
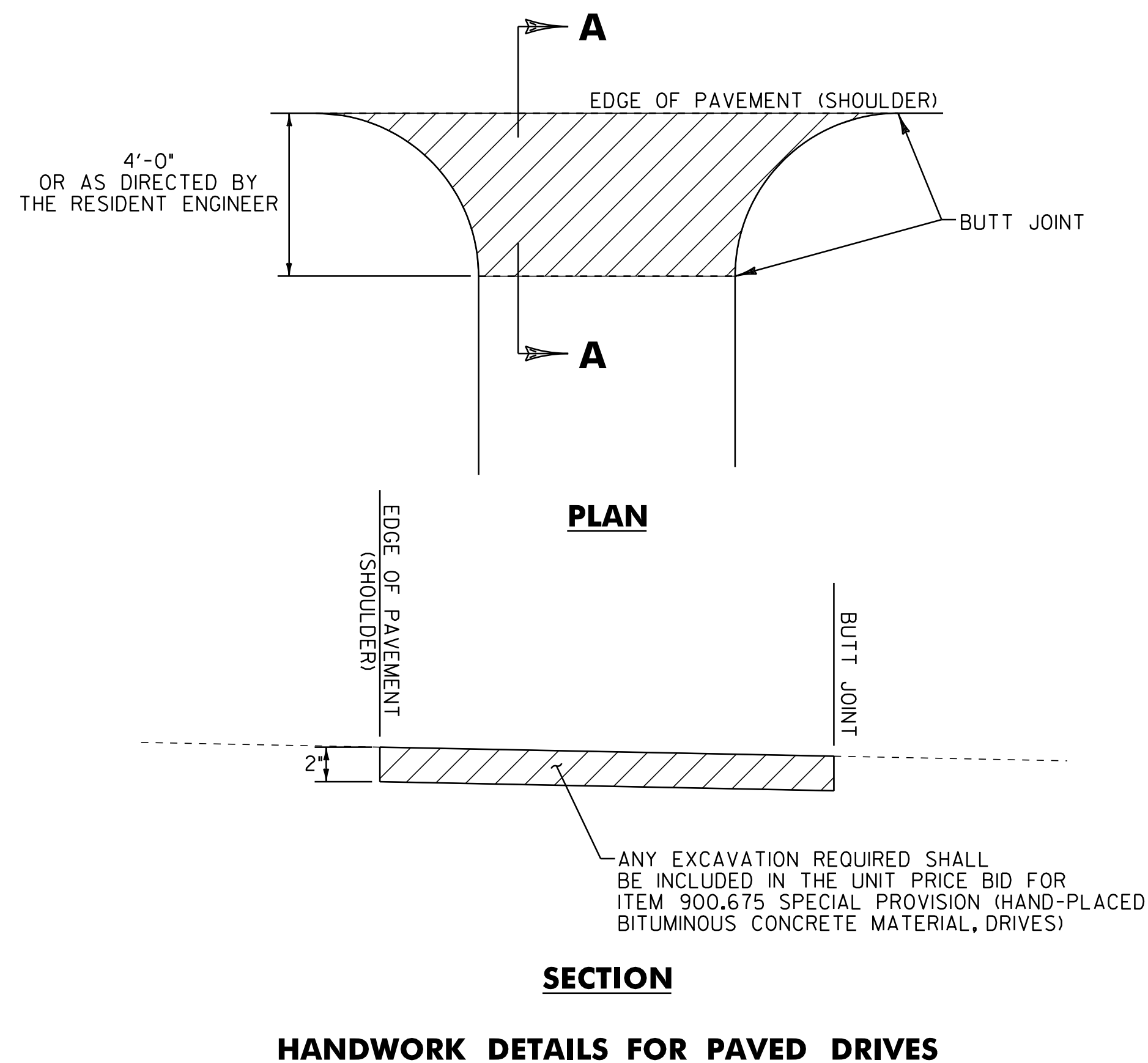
LOCATION			GUARDRAIL						MISCELLANEOUS														REMARKS		
BEGIN MILE MARKER	END MILE MARKER	POS.	621.20	621.205	621.206	621.50	621.60	621.80	203.15	203.30	402.12	604.40	604.412	604.415	604.418	613.10	616.35	616.47	617.10	649.31	653.20	676.10		676.12	676.15
			S.B. G.R. GALV. LF	S.B. G.R. GALV. 8' POST LF	S.B. G.R. GALV./NESTED LF	MTS. FLARED EA	ANCHOR FOR S.B. RAIL EA	REMOVAL & DISPOSAL OF GUARDRAIL LF	COMMON EXCAVATION CY	EARTH BORROW CY	AGGREGATE SHOULDER MATERIAL TON	CHAN ELEV OF DI, CB OR MH EA	REHAB DI, CB, OR MH, CLASS I EA	REHAB DI, CB, OR MH, CLASS II EA	REHAB DI, CB, OR MH, CLASS III EA	STONE FILL, TYPE I CY	TREATED TIMBER CURB LF	BIT. CONC. GUTTERS & TRAFF. ISL. TON	RELOC. MAILBOX, SINGLE SUPP. EACH	GEOTEXTILE UNDER STONE FILL SY	TEMPORARY EROSION MATTING SY	DELINEATOR WITH STEEL POST EACH		REMOVAL OF EXIST. DELINEATOR EACH	REMOVE & REPLACE REFLEC. UNIT EACH
VT ROUTE 105																									
SHELDON	ENOSBURG																								
2.000	0.464	LT&RT											1	4	4	3									
2.000	0.464	LT&RT											1771												
SHELDON																									
2.560	2.675	RT	475	462.5		+2	+0	506													25	2	2		
2.568	2.675	LT	525	512.5		+2	+0	558													25	2	2		
3.315	-3.456 3.45	LT	700 400.0			+2	+0	744													25	2	2		
3.599	3.696	RT	437.5			2															50	2			
3.619	3.663	LT	200			1	2														25	2			
4.050	4.089	LT&RT																							12
4.204	4.245	RT																							6
4.204	4.261	LT																							9
4.506	4.584	LT	412.5 400.0			2	2	409														2	2		
4.538		RT																			7.2				
4.679		RT							21													380			
4.912	5.083	LT																							
5.083	5.237 5.25	RT	737.5 227.0			2	1	391													50	2	2		
5.104 5.083	5.258	LT	737.5 377.5			2	1	441 233.5													50	2	2		
5.148		RT																			7.2				
5.738		LT																			7.2				
6.295		RT																			7.2				
7.035	7.260	RT	375 377	775		2	1	1044													516	50	2	2	
7.202	7.273	LT	300 287.5			2		367													50	2	2		
7.482	7.517	LT	112.5 102.0			2	1	180													50	2	2		
9.115	9.234	RT	525 514.5		25 87.5	2	1	400													50	2	2		
SHEET SUBTOTALS:			5537.5	775	25	18 15	7	5040	21	375	1771	1	4	4	3	4.4	516	78.2		28.8	780	24	20	27	

**ITEM
DETAIL
SUMMARY
SHEET #1**

PROJECT NAME: SHELDON-ENOSBURG
 PROJECT NUMBER: STP 2714(I)
 FILE NAME: p07b180.dgn PLOT DATE: 07-NOV-2011 16:46
 PROJECT LEADER: JLL DRAWN BY: STANTEC
 DESIGNED BY: STANTEC CHECKED BY: JLL
 IPARM FILE: p07b180idss01.i SHEET 7 OF 29

ITEM DETAIL SUMMARY SHEET 2

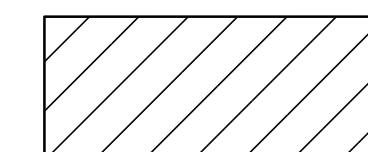
LOCATION			GUARDRAIL						MISCELLANEOUS														REMARKS				
BEGIN MILE MARKER	END MILE MARKER	POS.	621.20	621.205	621.206	621.50	621.60	621.80	203.15	203.30	402.12	604.40	604.412	604.415	604.418	613.10	616.35	616.47	617.10	649.31	653.20	676.10		676.12	676.15		
			S.B. G.R. GALV. LF	S.B. G.R. GALV. 8' POST LF	S.B. G.R. GALV./NESTED LF	MTS. FLARED EA	ANCHOR FOR S.B. RAIL EA	REMOVAL & DISPOSAL OF GUARDRAIL LF	COMMON EXCAVATION CY	EARTH BORROW CY	AGGREGATE SHOULDER MATERIAL TON	CHAN ELEV OF DI, CB OR MH EA	REHAB DI, CB, OR MH, CLASS I EA	REHAB DI, CB, OR MH, CLASS II EA	REHAB DI, CB, OR MH, CLASS III EA	STONE FILL, TYPE I CY	TREATED TIMBER CURB LF	BIT. CONC. GUTTERS & TRAFF. ISL. TON	RELOC. MAILBOX, SINGLE SUPP. EACH	GEOTEXTILE UNDER STONE FILL SY	TEMPORARY EROSION MATTING SY	DELINEATOR WITH STEEL POST EACH		REMOVAL OF EXIST. DELINEATOR EACH	REMOVE & REPLACE REFLEC. UNIT EACH		
VT ROUTE 105 SHELDON (CONT.)																											
9.169	9.233	LT	287.5 227.0		25 37.5		1	2-1	304										1		25	2	2		INSTALL 2 RADIUS UNITS AND 2 ANCHORS AT WEST END; INSTALL S.B. GUARDRAIL, GALVANIZED/NESTED PER THE GUARDRAIL DETAIL SHEET; INSTALL S.B. GUARDRAIL 275 LF EAST OF BR 14; INSTALL MTS FLARED ON EAST END; RELOCATE MAILBOX SUPPORT TO MM 9.167, LT.		
9.509		LT																		1.1		7.2					ITEMS TO BE USED WITH SLOPE EROSION REPAIR.
9.510		RT																		1.1		7.2					ITEMS TO BE USED WITH SLOPE EROSION REPAIR.
9.944		RT																		1.1		7.2					ITEMS TO BE USED WITH SLOPE EROSION REPAIR.
10.015	10.086 10.105	RT	300	302			2-1	1	244												50	2	2		INSTALL S.B. GUARDRAIL 117.5 LF WEST OF AND 182.5 LF EAST OF BR 15 (MM 10.044); INSTALL M.T.S., FLARED ON BOTH ENDS		
10.015	10.105	LT	400	402			2-1	1	242												50	2	2		INSTALL S.B. GUARDRAIL 114.5 LF WEST OF AND 285.5 LF EAST OF BR 15 (MM 10.044); INSTALL M.T.S., FLARED ON BOTH ENDS		
10.580	10.646	RT	275	275			2		123												50	2	2		INSTALL S.B. GUARDRAIL 97 LF WEST OF AND 178 LF EAST OF BR 16 (MM 10.605); INSTALL M.T.S., FLARED ON BOTH ENDS		
10.591	10.667	LT	325 327				2-1	1	176												50	2	2		INSTALL S.B. GUARDRAIL 34.5 LF WEST OF AND 290.5 LF EAST OF BR 16 (MM 10.605); INSTALL M.T.S., FLARED ON BOTH ENDS		
ENOSBURG																											
0.270	0.338	LT	362.5 316.5				1	2-1	281													2	2		INSTALL S.B. GUARDRAIL 175 LF WEST OF AND 187.5 LF EAST OF BR 17 (MM 0.303, LT); INSTALL ANCHOR FOR S.B. RAIL ON BOTH ENDS		
0.259	0.302	RT	225 227				1	2-1	106													2	2		INSTALL S.B. GUARDRAIL 182 LF WEST OF AND 43 LF EAST OF BR 17 (MM 0.294, RT); INSTALL ANCHOR FOR S.B. RAIL ON BOTH ENDS		
0.338	0.417	RT																								CONSTRUCT BITUMINOUS CONCRETE GUTTER, MATCH EXISTING WIDTH.	
0.383	0.469	LT	450 262.5	189.5			1	2-1	452																INSTALL S.B. GUARDRAIL 247 LF WEST OF AND 203 LF EAST OF CULVERT AT MM 0.430, LT; INSTALL ANCHOR FOR S.B. RAIL ON BOTH ENDS; RELOCATE MAILBOX SUPPORT TO MM 0.469, LT		
0.402	0.412	LT																				9.3			422.2	ITEMS TO BE USED WITH SLOPE EROSION REPAIR.	
SHEET 7 SUBTOTALS:			5537.5	775	-25 87.5	-18-15	7-5	-5040	21	375	1771	1	4	4	3	4.4	516	78.2	-	28.8	780	24	20	27			
SHEET 8 SUBTOTALS:			2625	-	-25 37.5	9	8-7	1928	-	175	-	-	-	-	-	12.6	-	36.1	2	443.8	225	16	16	-			
ROUNDINGS:			37.5	-	-	-	-	-	1	-	14	-	-	-	-	-	4	0.7	-	-	-	-	-	-	*THESE TOTALS ARE CARRIED FORWARD TO THE DETAILED SUMMARY OF QUANTITIES ON THE QUANTITY SHEETS		
TOTALS:			8200	775	50 125.0	27-24	15-12	-6968	22	550	1785	1	4	4	3	17*	520	115	2	472.6*	1005*	40	36	27			
ITEM DETAIL SUMMARY SHEET #2																						PROJECT NAME: SHELDON-ENOSBURG					
ITEM DETAIL SUMMARY SHEET #2																						PROJECT NUMBER: STP 2714(I)					
ITEM DETAIL SUMMARY SHEET #2																						FILE NAME: p07b180.dgn					
ITEM DETAIL SUMMARY SHEET #2																						PLOT DATE: 07-NOV-2011 16:46					
ITEM DETAIL SUMMARY SHEET #2																						PROJECT LEADER: JLL					
ITEM DETAIL SUMMARY SHEET #2																						DRAWN BY: STANTEC					
ITEM DETAIL SUMMARY SHEET #2																						DESIGNED BY: STANTEC					
ITEM DETAIL SUMMARY SHEET #2																						CHECKED BY: JLL					
ITEM DETAIL SUMMARY SHEET #2																						IPARM FILE: p07b180idss02.i					
ITEM DETAIL SUMMARY SHEET #2																						SHEET 8 OF 29					



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 PRICE BID 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 PRICE BID FOR ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES).

LEGEND



ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)



**DRIVE
DETAIL
SHEET #1**

PROJECT NAME: SHELDON-ENOSBURG
PROJECT NUMBER: STP 2714(I)

FILE NAME: p07b180.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p07b180ds01.i

PLOT DATE: 07-NOV-2011 16:46
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 9 OF 29

DRIVE LOCATION SUMMARY – ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)

MILE MARKER	POSITION	900.675 (SY)
STP 2714(I) VT ROUTE 105		
SHELDON		
2.031	LT	10
2.227	LT	8
2.294	RT	10
2.316	RT	6
2.334	RT	7
2.356	LT	14
2.366	RT	18
2.375	RT	13
2.436	RT	8
2.470	RT	10
2.555	RT	9
2.683	LT	9
2.694	RT	8
2.708	LT	8
2.797	LT	7
2.839	RT	56
2.869	RT	20
2.896	RT	10
2.924	RT	12
2.953	RT	7
2.956	LT	110
2.995	RT	10
3.028	LT	46
3.053	LT	7
3.073	RT	12
3.130	LT	6
3.168	LT	11
3.228	LT	11
3.252	LT	9
3.261	LT	8
3.288	LT	10
3.298	LT	13
3.472	LT	6
3.491	RT	7
3.523	RT	6
3.529	LT	7
3.588	RT	10
3.804	RT	21
3.831	RT	7
4.010	LT	24
4.013	RT	22
4.263	RT	28
4.315	LT	10
4.330	LT	11
SUBTOTAL		662

MILE MARKER	POSITION	900.675 (SY)
STP 2714(I) VT ROUTE 105		
SHELDON (CONT.)		
4.348	RT	16
4.350	LT	9
4.402	RT	16
4.409	RT	12
4.482	LT	11
4.503	RT	10
4.564	RT	10
4.597	LT	11
4.600	RT	8
4.692	LT	13
4.817	RT	20
4.881	LT	14
4.973	LT	8
5.309	RT	10
5.366	RT	9
5.415	RT	8
5.456	RT	8
5.589	LT	11
5.640	LT	9
5.700	LT	22
5.853	LT	39
5.872	RT	7
5.921	LT	8
5.945	LT	31
6.003	LT	9
6.152	LT	9
6.206	LT	7
6.223	RT	38
6.229	LT	15
6.253	LT	10
6.346	RT	9
6.532	RT	9
6.758	LT	6
6.903	RT	11
6.909	LT	9
7.186	LT	6
7.195	LT	8
7.283	LT	10
7.325	RT	13
7.453	LT	7
7.624	LT	7
7.628	LT	9
7.628	RT	58
7.663	LT	16
SUBTOTAL		586

MILE MARKER	POSITION	900.675 (SY)
STP 2714(I) VT ROUTE 105		
SHELDON (CONT.)		
7.716	LT	12
7.727	RT	9
7.761	RT	9
7.782	LT	12
7.830	LT	12
7.928	RT	12
8.142	RT	8
8.152	LT	13
8.188	LT	13
8.244	RT	12
8.255	LT	9
8.330	RT	7
8.345	LT	7
8.384	LT	9
8.408	LT	16
8.427	RT	14
8.610	RT	13
8.730	LT	14
8.887	LT	11
9.042	LT	12
9.085	LT	24
9.086	RT	8
9.119	LT	25
9.163	LT	11
9.247	LT	8
9.272	LT	9
9.377	LT	8
9.467	LT	18
9.477	RT	8
9.516	LT	14
9.581	LT	13
9.623	LT	9
9.631	RT	11
9.782	RT	8
9.882	LT	8
10.013	RT	7
10.013	LT	7
10.182	LT	15
10.196	LT	8
10.300	RT	8
10.342	RT	8
10.344	LT	8
10.375	LT	9
10.384	LT	10
SUBTOTAL		486

MILE MARKER	POSITION	900.675 (SY)
STP 2714(I) VT ROUTE 105		
SHELDON (CONT.)		
10.412	LT	12
10.510	LT	13
10.567	LT	8
10.576	RT	9
10.798	LT	14
10.799	RT	12
10.848	RT	7
10.853	RT	7
10.853	LT	11
10.998	RT	9
11.000	LT	8
11.034	LT	8
ENOSBURG		
0.114	RT	7
0.160	RT	19
0.195	LT	131
0.220	RT	19
0.240	LT	11
0.247	RT	10
0.250	LT	8
SUBTOTAL		323
COLUMN 1		662
COLUMN 2		586
COLUMN 3		486
COLUMN 4		323
SUBTOTAL		2057
ROUNDING		23
TOTAL		2080

SEE COMPUTATIONS FOLDER

**DRIVE
DETAIL
SHEET #2**

PROJECT NAME: SHELDON-ENOSBURG
PROJECT NUMBER: STP 2714(I)

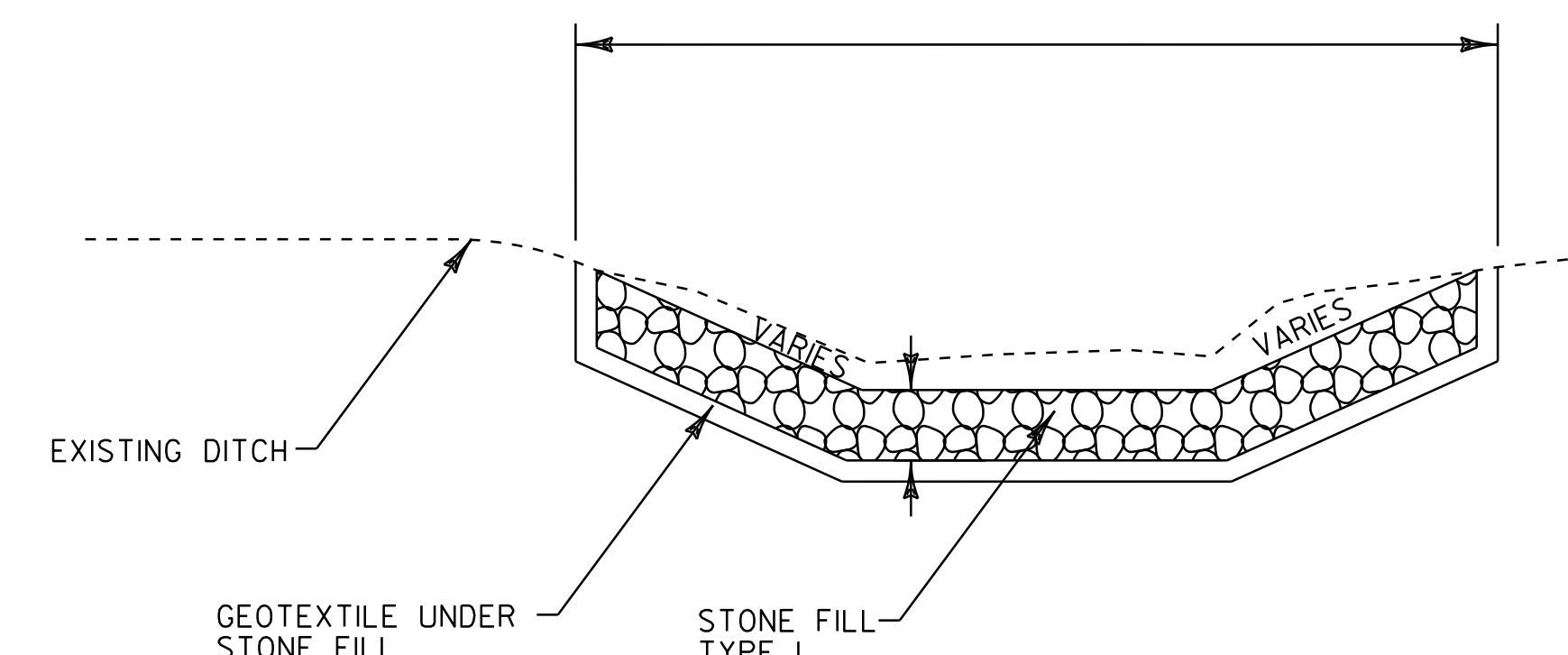
FILE NAME: p07b180.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p07b180ds02.i

PLOT DATE: 07-NOV-2011 16:46
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 10 OF 29



LOCATION				FEET OF DITCHING			MISC. ITEMS			REMARKS
SITE	MILE MARKER	MILE MARKER	POS.	PERCENT GRADE			STONE FILL TYP. I	GEOT. UNDER STONE FILL	TEMP. EROS. MATT.	
				0-1	1-2.5	2.5-10				
				613.10	649.31	653.20				
VT ROUTE 105 SHELDON							CY	SY	SY	
1	2.26	2.51	RT			1320	196	880		
2	2.70	2.71	LT&RT		106				47	
3	2.70	2.95	LT		1320				587	
4	2.92	2.93	RT		53				24	
5	2.95	2.96	RT		53				24	
6	2.98	2.99	LT		53				24	
7	3.74	3.76	LT		106				47	
8	3.85	3.86	LT&RT		106				47	
9	3.89	3.90	RT		53				24	
10	4.43	4.54	RT		581				258	
11	7.58	7.79	LT		1109				493	
12	8.37	8.60	LT&RT		2428				1079	
13	9.21	9.61	LT		2112				939	
14	10.00	10.18	LT		950				422	
15	10.92	10.97	LT		264				117	
PROJECT SUBTOTALS (EST.)					9294	1320	196	880	4132	
ROUNDING					-	-	-	-	-	
PROJECT TOTALS					9294	1320	196	880	4132	

LOCATION				FEET OF DITCHING			MISC. ITEMS			REMARKS
SITE	STATION	STATION	POS.	PERCENT GRADE			STONE FILL TYP. I	GEOT. UNDER STONE FILL	TEMP. EROS. MATT.	
				0-1	1-2.5	2.5-10				
				613.10	649.31	653.20				
							CY	SY	SY	



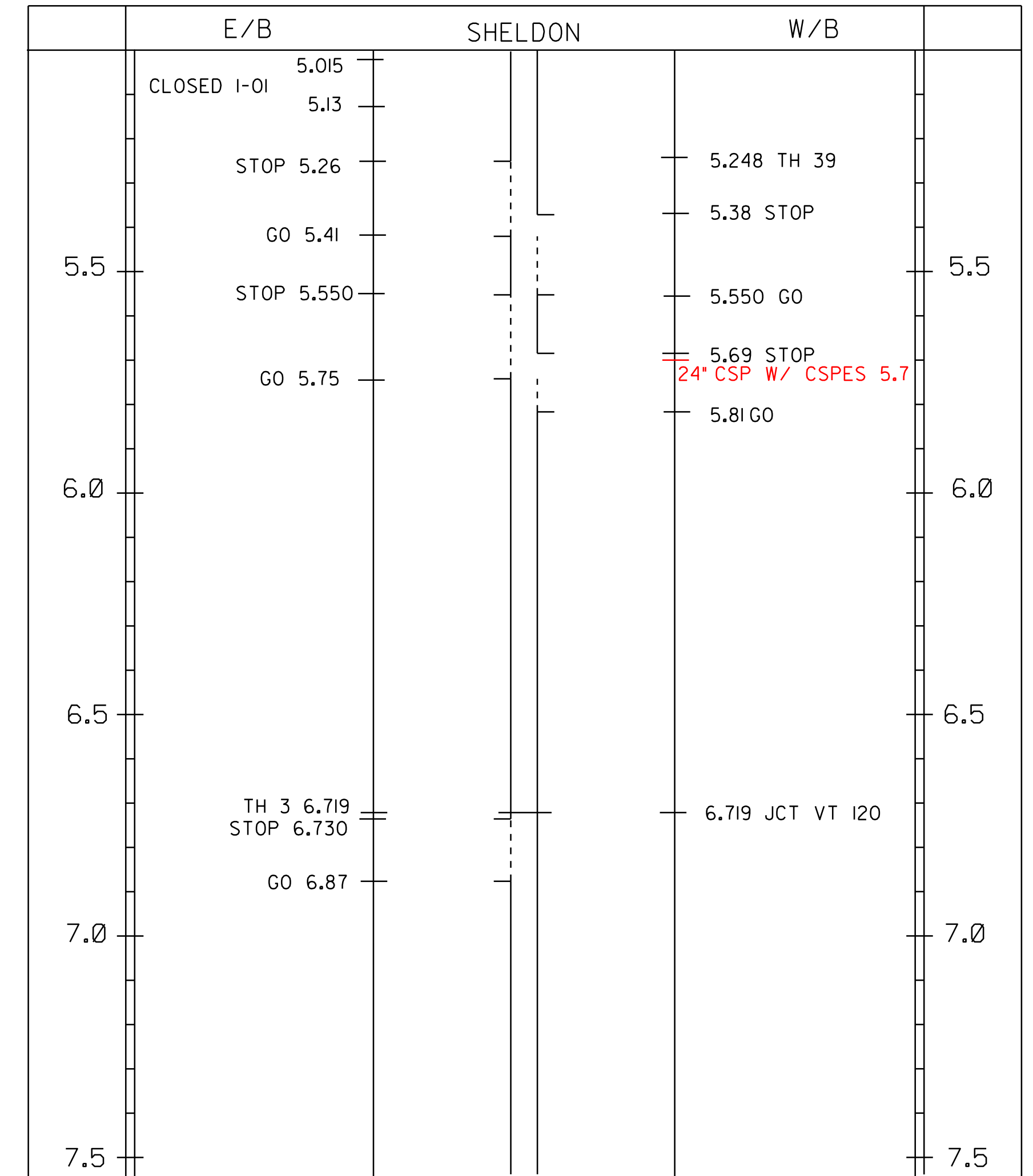
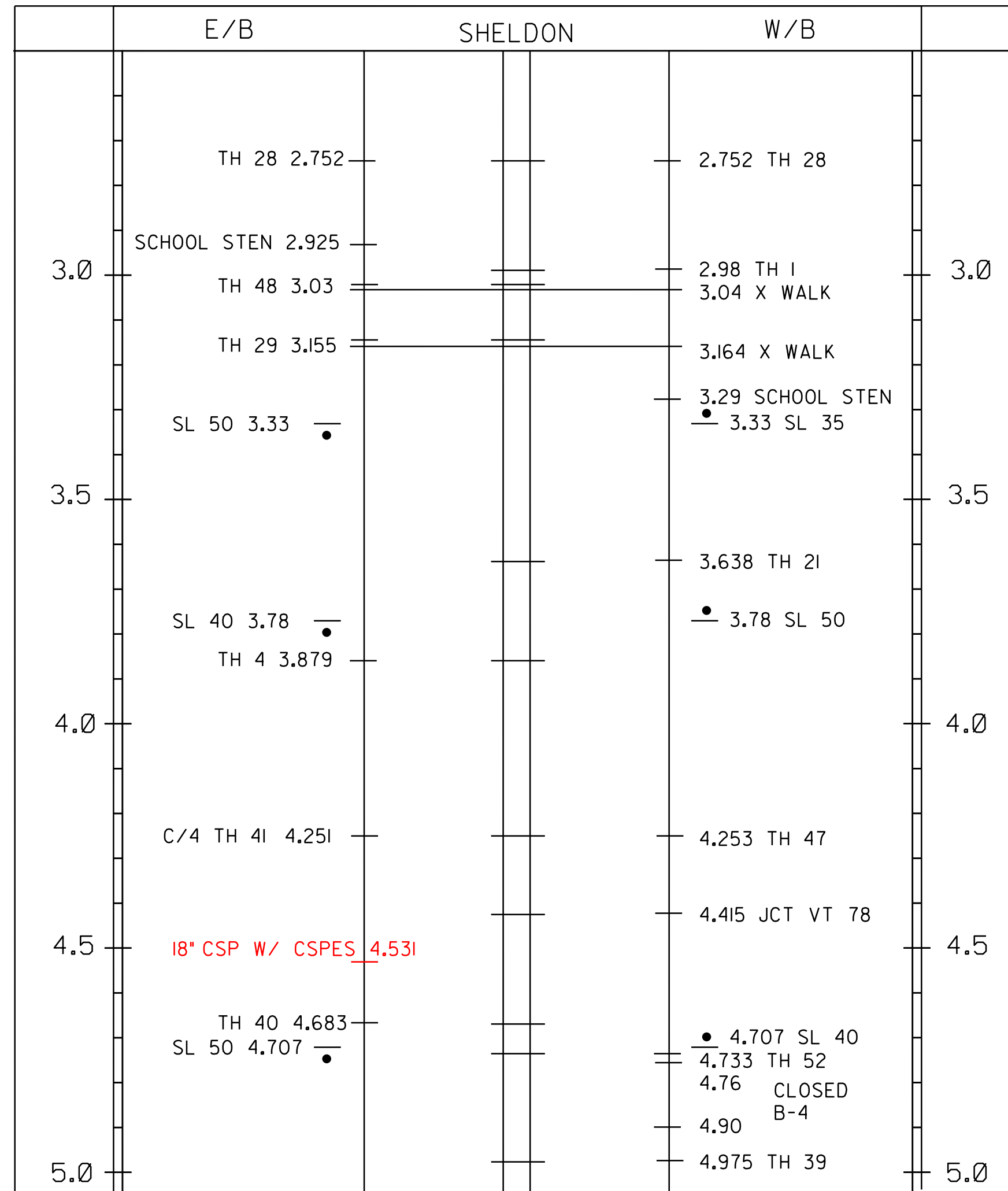
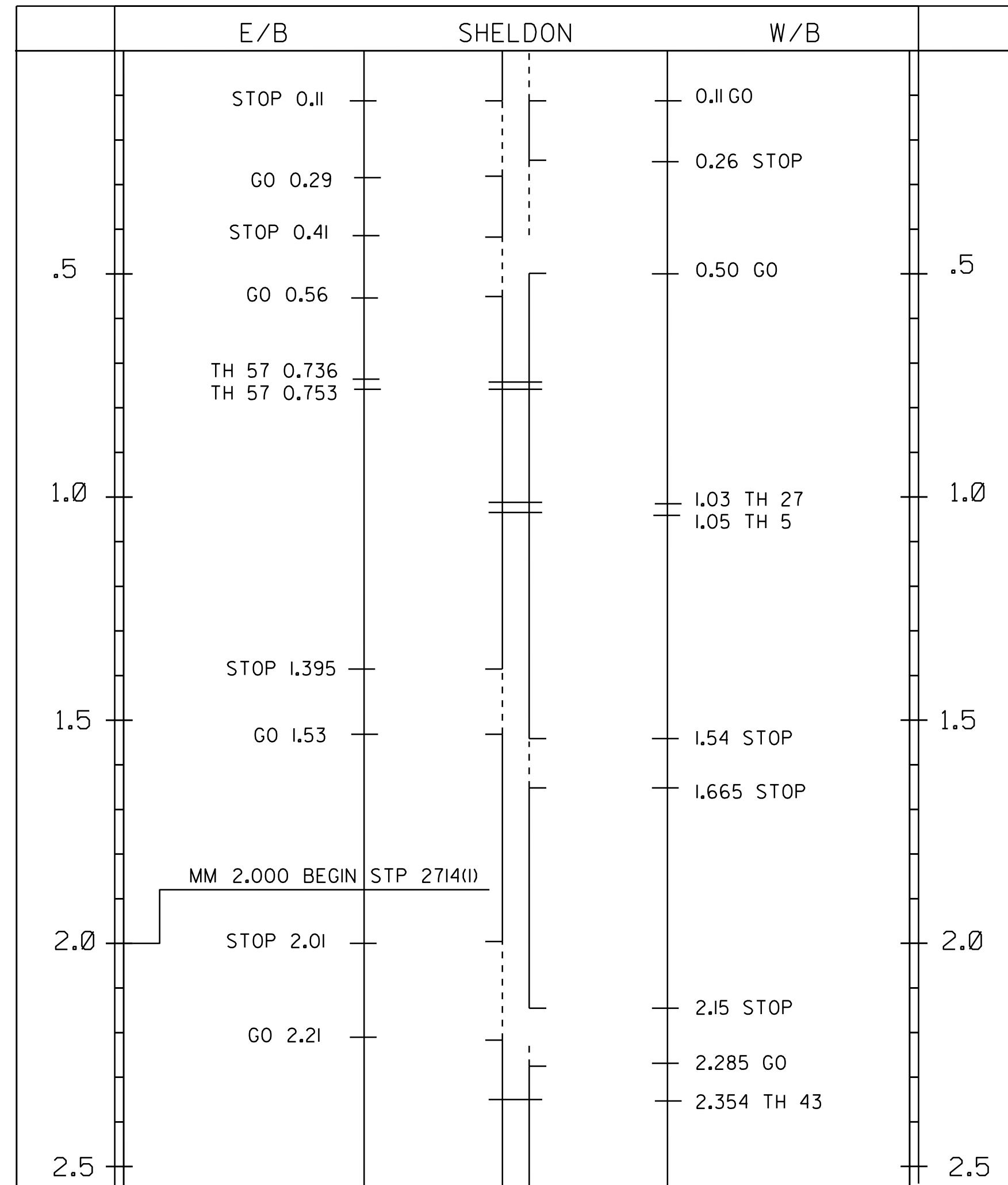
DITCH DETAIL

- NOTES:
- PIPE INLET AND OUTLET AREAS, AND DITCH CLEANING THROUGHOUT THE PROJECT, SHALL BE PERFORMED AT LOCATIONS AND AS DIRECTED BY THE RESIDENT ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE EQUIPMENT RENTAL ITEM(S).
 - ESTIMATED QUANTITIES OF TEMPORARY EROSION MATTING, SEED, AND STONE FILL, TYPE I HAVE BEEN INCLUDED. DITCHES WITH A GRADE LESS THAN 1 PERCENT SHALL BE SEEDED. TEMPORARY EROSION MATTING SHALL BE USED IN ALL DITCHES WITH A GRADE BETWEEN 1 AND 2.5 PERCENT. STONE FILL, TYPE I SHALL BE USED IN ALL DITCHES WITH A GRADE 2.5 PERCENT OR GREATER OR AS DIRECTED BY THE RESIDENT ENGINEER.
 - THE COST FOR PLACING AND SHAPING OF STONE FILL TYPE I TO BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 613.10.



DITCH CLEANING DETAIL SHEET	PROJECT NAME: SHELDON-ENOSBURG
	PROJECT NUMBER: STP 2714(I)
	FILE NAME: p07b180.dgn
	PLOT DATE: 07-NOV-2011 16:46
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p07b180dcs.i	SHEET 11 OF 29

ALL STATIONS SHOWN ARE IN MILES



646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC
646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
SHeldon
MM 2.000 TO MM 7.500 SOLID RT & LT
MM 2.354, DOUBLE SOLID LT (T.H. 43)
MM 2.752, DOUBLE SOLID LT (T.H. 28)
MM 2.752, DOUBLE SOLID RT (T.H. 28)
MM 2.980, DOUBLE SOLID LT (T.H. 1)
MM 3.030, DOUBLE SOLID RT (T.H. 48)
MM 3.155, DOUBLE SOLID RT (T.H. 29)
MM 3.638, DOUBLE SOLID LT (T.H. 21)
MM 3.879, DOUBLE SOLID RT (T.H. 4)
MM 4.251, DOUBLE SOLID RT (T.H. 41)
MM 4.253, DOUBLE SOLID LT (T.H. 47)
MM 4.415, DOUBLE SOLID LT (VT ROUTE 78)
MM 4.683, DOUBLE SOLID RT (T.H. 40)
MM 4.733, DOUBLE SOLID LT (T.H. 52)
MM 4.975, DOUBLE SOLID LT (T.H. 39)
MM 5.248, DOUBLE SOLID LT (T.H. 39)
MM 6.719, DOUBLE SOLID LT (VT ROUTE 120)
MM 6.719, DOUBLE SOLID RT (T.H. 3)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC
646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
SHeldon
MM 2.000 TO MM 2.010 SOLID RT & LT
MM 2.010 TO MM 2.150 DASHED RT, SOLID LT
MM 2.150 TO MM 2.210 DASHED CL
MM 2.210 TO MM 2.285 SOLID RT, DASHED LT
MM 2.285 TO MM 5.260 SOLID RT & LT
MM 2.354, DOUBLE SOLID LT (T.H. 43)
MM 2.752, DOUBLE SOLID LT (T.H. 28)
MM 2.752, DOUBLE SOLID RT (T.H. 28)
MM 2.980, DOUBLE SOLID LT (T.H. 1)
MM 3.030, DOUBLE SOLID RT (T.H. 48)
MM 3.155, DOUBLE SOLID RT (T.H. 29)
MM 3.638, DOUBLE SOLID LT (T.H. 21)
MM 3.879, DOUBLE SOLID RT (T.H. 4)
MM 4.251, DOUBLE SOLID RT (T.H. 41)
MM 4.253, DOUBLE SOLID LT (T.H. 47)
MM 4.415, DOUBLE SOLID LT (VT ROUTE 78)
MM 4.683, DOUBLE SOLID RT (T.H. 40)
MM 4.733, DOUBLE SOLID LT (T.H. 52)
MM 4.975, DOUBLE SOLID LT (T.H. 39)
MM 5.248, DOUBLE SOLID LT (T.H. 39)
MM 5.260 TO MM 5.380 DASHED RT, SOLID LT
MM 5.380 TO MM 5.410 DASHED CL
MM 5.410 TO MM 5.550 SOLID RT, DASHED LT
MM 5.550 TO MM 5.690 DASHED RT, SOLID LT
MM 5.690 TO MM 5.750 DASHED CL
MM 5.750 TO MM 5.810 SOLID RT, DASHED LT
MM 5.810 TO MM 6.730 SOLID RT & LT
MM 6.719, DOUBLE SOLID LT (VT ROUTE 120)
MM 6.719, DOUBLE SOLID RT (T.H. 3)
MM 6.730 TO MM 6.870 DASHED RT, SOLID LT
MM 6.870 TO MM 7.500 SOLID RT & LT

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC
646.682 TEMPORARY 24 INCH STOP BAR, PAINT
SHeldon
MM 2.354, LT (T.H. 43)
MM 2.752, RT (T.H. 28)
MM 2.752, LT (T.H. 28)
MM 2.980, LT (T.H. 1)
MM 3.030, RT (T.H. 48)
MM 3.155, RT (T.H. 29)
MM 3.638, LT (T.H. 21)
MM 3.879, RT (T.H. 4)
MM 4.251, RT (T.H. 41)
MM 4.253, LT (T.H. 47)
MM 4.415, LT (VT ROUTE 78)
MM 4.683, RT (T.H. 40)
MM 4.733, LT (T.H. 52)
MM 4.975, LT (T.H. 39)
MM 5.248, LT (T.H. 39)
MM 6.719, LT (VT ROUTE 120)
MM 6.719, RT (T.H. 3)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
646.692 TEMPORARY LETTER OR SYMBOL, PAINT
SHeldon
MM 2.354, LT - *STOP*
MM 2.752, RT - *STOP*
MM 2.752, LT - *STOP*
MM 2.925, RT - *SCHOOL*
MM 2.980, LT - *STOP*
MM 3.030, RT - *STOP*
MM 3.155, RT - *STOP*
MM 3.290, LT - *SCHOOL*
MM 3.638, LT - *STOP*
MM 3.879, RT - *STOP*
MM 4.253, LT - *STOP*
MM 4.415, LT - *STOP*
MM 4.683, RT - *STOP*
MM 4.733, LT - *STOP*
MM 4.733, LT - *STOP*
MM 4.975, LT - *STOP*
MM 5.248, LT - *STOP*
MM 6.719, LT - *STOP*
MM 6.719, RT - *STOP*

646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC
646.702 TEMPORARY CROSSWALK MARKING, PAINT
SHeldon
MM 3.040, LT TO RT
MM 3.164, LT TO RT
60L0015 18" CSP
SHeldon
MM 4.531, RT
60L6015 18" CSPES
SHeldon
MM 4.531, RT
60L0025 24" CSP
SHeldon
MM 5.7, LT
60L6025 24" CSPES
SHeldon
MM 5.7, LT



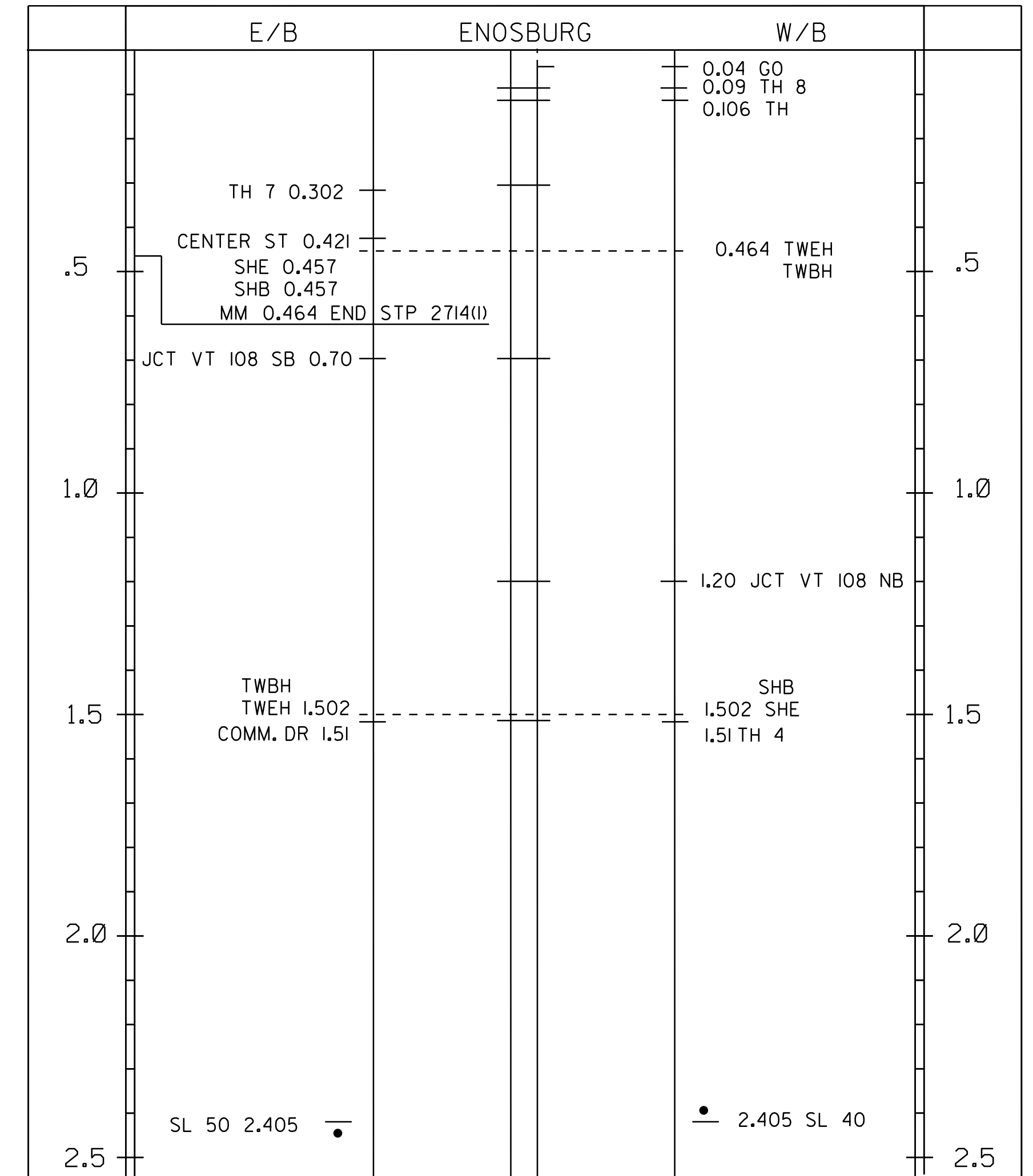
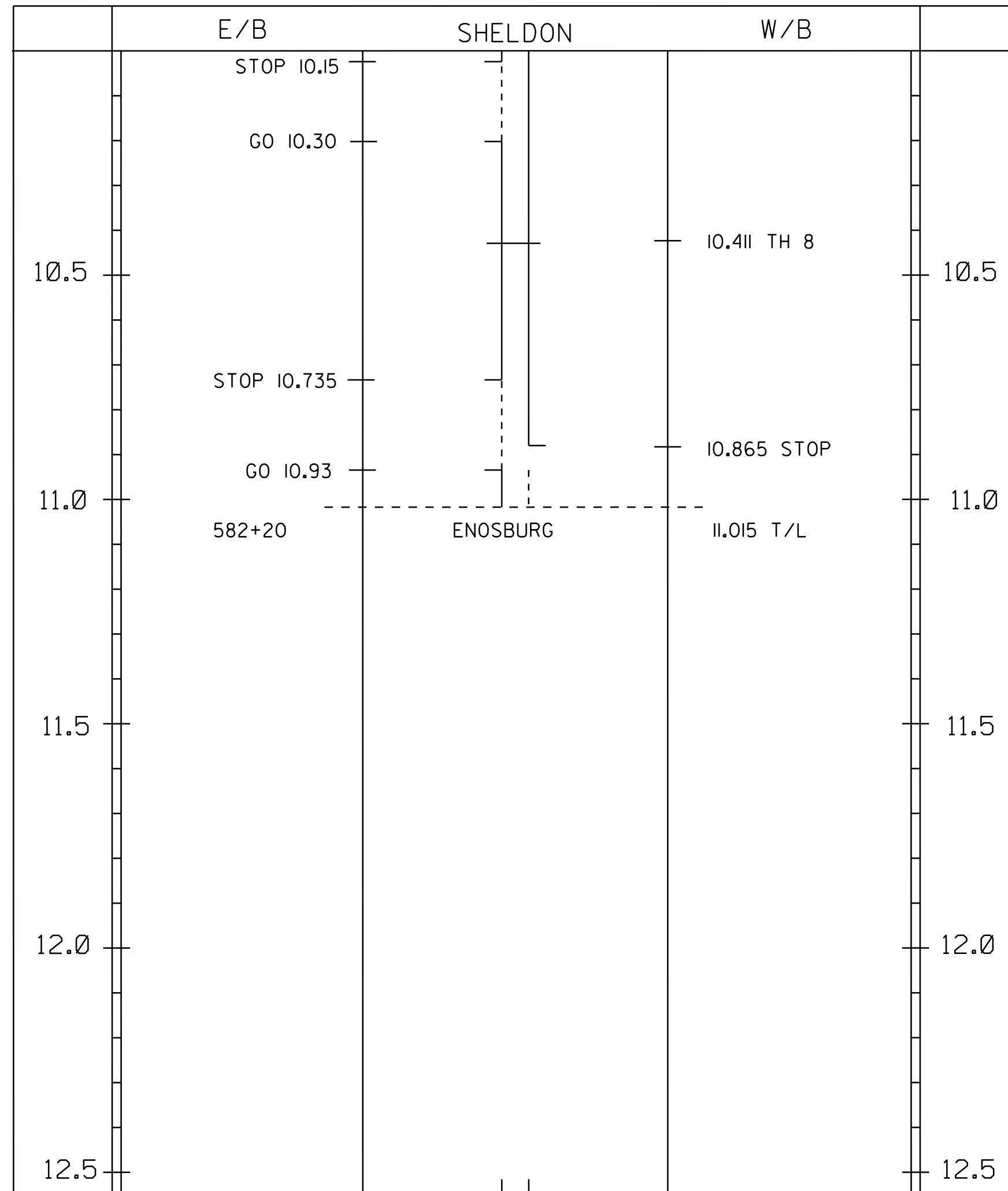
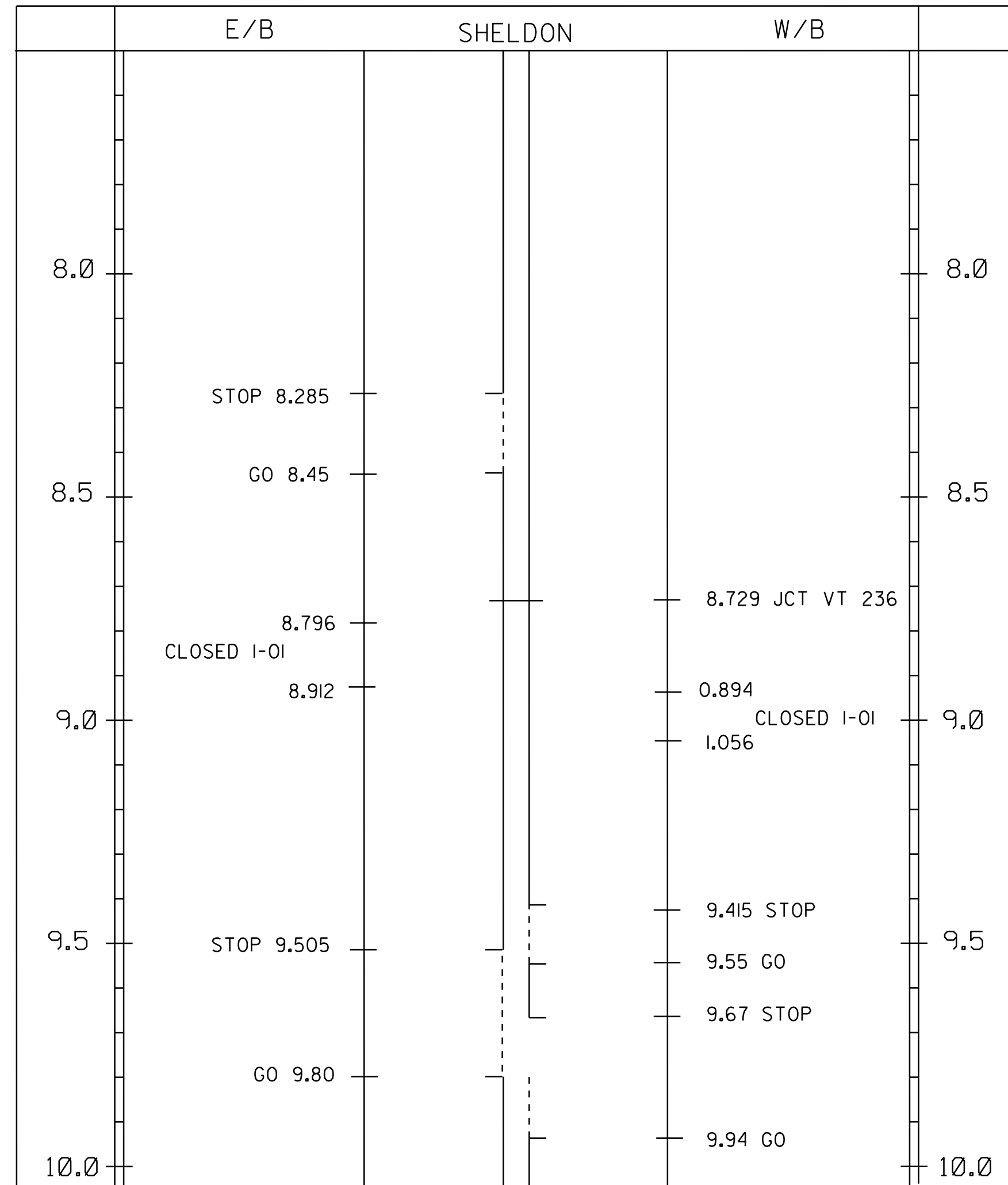
LANE MARKING SHEET #1

PROJECT NAME: SHeldon-ENOSBURG
PROJECT NUMBER: STP 2714(I)

FILE NAME: p07b180.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p07b180lms01.i

PLOT DATE: 07-NOV-2011 16:46
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 12 OF 29

ALL STATIONS SHOWN ARE IN MILES



646.402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC
 646.602 TEMPORARY 4 INCH WHITE LINE, PAINT
 SHELDON
 MM 7.500 TO MM 11.015 SOLID RT & LT
 MM 8.729, DOUBLE SOLID LT (VT ROUTE 236)
 MM 10.411, DOUBLE SOLID LT (T.H. 8)
 ENOSBURG
 MM 0.000 TO MM 0.464 SOLID RT & LT
 MM 0.090, DOUBLE SOLID LT (T.H. 8)
 MM 0.302, DOUBLE SOLID RT (T.H. 7)
 MM 0.421, DOUBLE SOLID RT (CENTER STREET)

646.412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC
 646.612 TEMPORARY 4 INCH YELLOW LINE, PAINT
 SHELDON
 MM 7.500 TO MM 8.285 SOLID RT & LT
 MM 8.285 TO MM 8.450 DASHED RT, SOLID LT
 MM 8.450 TO MM 9.415 SOLID RT & LT
 MM 8.729, DOUBLE SOLID LT (VT ROUTE 236)
 MM 9.415 TO MM 9.505 SOLID RT, DASHED LT
 MM 9.505 TO MM 9.550 DASHED CL
 MM 9.550 TO MM 9.670 DASHED RT, SOLID LT
 MM 9.670 TO MM 9.800 DASHED CL
 MM 9.800 TO MM 9.940 SOLID RT, DASHED LT
 MM 9.940 TO MM 10.150 SOLID RT & LT
 MM 10.150 TO MM 10.30 DASHED RT, SOLID LT
 MM 10.300 TO MM 10.735 SOLID RT & LT
 MM 10.411, DOUBLE SOLID LT (T.H. 8)
 MM 10.735 TO MM 10.865 DASHED RT, SOLID LT
 MM 10.865 TO MM 10.930 DASHED CL
 MM 10.930 TO MM 11.015 SOLID RT, DASHED LT
 ENOSBURG
 MM 0.000 TO MM 0.464 SOLID RT & LT
 MM 0.090, DOUBLE SOLID LT (T.H. 8)
 MM 0.302, DOUBLE SOLID RT (T.H. 7)
 MM 0.421, DOUBLE SOLID RT (CENTER STREET)

646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC
 646.682 TEMPORARY 24 INCH STOP BAR, PAINT
 SHELDON
 MM 8.729, LT (VT ROUTE 236)
 MM 10.411, LT (T.H. 8)
 ENOSBURG
 MM 0.090, LT (T.H. 8)
 MM 0.302, RT (T.H. 7)
 MM 0.421, RT (CENTER STREET)

646.492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC
 646.692 TEMPORARY LETTER OR SYMBOL, PAINT
 SHELDON
 MM 8.729, LT - "STOP" (VT ROUTE 236)
 MM 10.411, LT - "STOP" (T.H. 8)
 ENOSBURG
 MM 0.090, LT - "STOP" (T.H. 8)
 MM 0.302, RT - "STOP" (T.H. 7)
 MM 0.421, RT - "STOP" (CENTER STREET)

646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC
 646.702 TEMPORARY CROSSWALK MARKING, PAINT
 ENOSBURG
 MM 0.426, RT



LANE MARKING SHEET #2

PROJECT NAME: SHELDON-ENOSBURG
 PROJECT NUMBER: STP 2714(I)
 FILE NAME: p07b180.dgn
 PROJECT LEADER: JLL
 DESIGNED BY: STANTEC
 IPARM FILE: p07b180ims02.i
 PLOT DATE: 07-NOV-2011 16:46
 DRAWN BY: STANTEC
 CHECKED BY: JLL
 SHEET 13 OF 29

TRAFFIC SIGN SUMMARY SHEET 02

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST RETAIN	NO. OF POSTS	NEW SIGN POSTS														REMARKS	SIGN DETAIL						
		EA	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN			SALV TIS	FLANGED CHANNEL			SQUARE STEEL (in)			TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)					W-SHAPE STEEL		FRAMING	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER		
											1.2	2.0	3.0	1.75	2.0	2.5	3.0	4.0	4.0 MOD	3.0	3.5	4.0	5.0		24"	30"				WEIGHT	POST SIZE
VT ROUTE 105										OPTION ITEMS																					
3.032, RT		I	30	30	6.25				I				X		X												SIGN ID CODE RI-I (T.H. 48) PLACE MM PLAQUE BACK TO BACK WITH STOP SIGN	E-143 E-138			
3.144, RT		I	24	30	5.00				I				X		X												SIGN ID CODE VR-017 (T.H. 29)	E-141			
3.153, RT		I	30	30	6.25				I				X		X												SIGN ID CODE RI-I (T.H. 29) PLACE MM PLAQUE BACK TO BACK WITH STOP SIGN	E-143 E-138			
3.351, LT									I				X		X												ERECT SALVAGED SIGN ON NEW POST	- -			
3.392, LT		I	30	18	3.75				I				X		X													22			
3.426, LT		I	6	10	0.42				I				X		X														E-138		
3.451, LT									2				X		X												ERECT SALVAGED SIGN ON NEW POSTS	- -			
3.628, LT		I	30	30	6.25				I				X		X												SIGN ID CODE RI-I (T.H. 21) PLACE MM PLAQUE BACK TO BACK WITH STOP SIGN	E-143 E-138			
3.630, RT		I	6	10	0.42				I				X		X														E-138		
3.635, LT		I	24	30	5.00				I				X		X												SIGN ID CODE VR-017 (T.H. 21)	E-141			
3.664, RT									2				X		X														- -		
3.875, RT		I	24	30	5.00				I				X		X												SIGN ID CODE VR-017 (T.H. 4)	E-141			

TRAFFIC SIGN SUMMARY SHEET 03

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST RETAIN	NO. OF POSTS	NEW SIGN POSTS																REQUIREMENTS	SIGN DETAIL					
		E A	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN			SALV TIS	FLANGED CHANNEL				SQUARE STEEL (in)				TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)					W-SHAPE STEEL		REMARKS	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER	
											lb/ft		1.75	2.0	2.5	ANCHOR	SLEEVE	3.0	4.0	4.0 MOD	FOUND-ATION	3.0	3.5	4.0	5.0		FTG. SIZE	WEIGHT				POST SIZE
											1.2	2.0	3.0	1.88	2.42			3.35	1.3	1.7		1.7	7.6	9.0	10.8							
VT ROUTE 105										OPTION ITEMS																						
SHELDON (CONT.) 3.883, RT		I	30	30	6.25				I																			SIGN ID CODE RI-I (T.H. 4) PLACE MM PLAQUE BACK TO BACK WITH STOP SIGN	E-143 E-138			
4.241, LT		I	30	30	6.25				I																			SIGN ID CODE RI-I (T.H. 47) PLACE MM PLAQUE BACK TO BACK WITH STOP SIGN	E-143 E-138			
4.241, RT		I	24	30	5.00				I																			SIGN ID CODE VR-017 (T.H. 41)	E-141			
4.248, LT		I	24	30	5.00				I																			SIGN ID CODE VR-017 (T.H. 47)	E-141			
4.249, RT		I	30	30	6.25				I																			SIGN ID CODE RI-I (T.H. 41) PLACE MM PLAQUE BACK TO BACK WITH STOP SIGN	E-143 E-138			
4.417, LT		I	30	30	6.25				I																			SIGN ID CODE RI-I (VT ROUTE 78) PLACE MM PLAQUE BACK TO BACK WITH STOP SIGN	E-143 E-138			
4.434, LT		I	30	30	6.25				I																			SIGN ID CODE RI-I (VT ROUTE 78) PLACE MM PLAQUE BACK TO BACK WITH STOP SIGN	E-143 E-138			
4.524, LT									2																			ERECT SALVAGED SIGN ON NEW POSTS	- - -			
4.573, LT		I	21	15	2.19				I																				E-136B E-136B			
4.675, RT		I	24	30	5.00				I																			SIGN ID CODE VR-017 (T.H. 40)	E-141			
4.682, RT		I	30	30	6.25				I																			SIGN ID CODE RI-I (T.H. 40) INSTALL STREET SIGN 90 DEGREES AND 6 INCHES ABOVE STOP SIGN. PLACE MM PLAQUE BACK TO BACK WITH STOP SIGN	E-143 E-138			

TRAFFIC SIGN SUMMARY SHEET 05

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST RETAIN	NO. OF POSTS	NEW SIGN POSTS																REMARKS	SIGN DETAIL				
		E A	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN			SALV TIS	FLANGED CHANNEL			SQUARE STEEL (in)				TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)				W-SHAPE STEEL		REQUIRE SIGNMENT	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER		
											lb/ft	1.75	2.0	2.5	ANCHOR	SLEEVE	3.0	4.0	4.0 MOD	FOUND-ACTION	3.0	3.5	4.0	5.0	FTG. SIZE					WEIGHT	POST SIZE
VT ROUTE 105										OPTION ITEMS																					
SHELDON (CONT.) 6.707, RT		I	24	30	5.00				I					X		X										SIGN ID CODE VR-017 (T.H. 3)		E-141			
6.715, RT		I	30	30	6.25				I					X		X										SIGN ID CODE RI-1 (T.H. 3)		E-143			
			6	10	0.42																						PLACE MM PLAQUE BACK TO BACK WITH STOP SIGN		E-138		
7.170, RT		I	30	24	5.00				I					X		X											22				
7.190, RT									I					X		X											-	-			
7.200, RT		I	24	30	5.00				I					X		X										SIGN ID CODE VR-023b		E-144			
7.229, LT		I	30	24	5.00				I					X		X											22				
7.244, RT		I	6	10	0.42				I					X		X													E-138		
7.262, LT		I	30	30	6.25				2					X		X										SIGN ID CODE VW-622		E-154			
			18	24	3.00																							22			
8.717, LT		I	30	30	6.25				I					X		X										SIGN ID CODE RI-1 (VT ROUTE 236)		E-143			
			6	10	0.42																						PLACE MM PLAQUE BACK TO BACK WITH STOP SIGN		E-138		
9.133, RT		I	48	24	8.00				2					X		X										SIGN ID CODE WI-6		E-152			
9.148, RT		I	48	24	8.00				2					X		X										SIGN ID CODE WI-6		E-152			
9.177, LT		I	6	8	0.33				I					X		X										SIGN ID CODE VD-701		E-134			

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

TOTALS	SF	SF	EA.	SF		FT	FT	FT	EA	LB	LB	LB	EA.	LB	EA.	EA.	LB
	59.34		1			30	195										

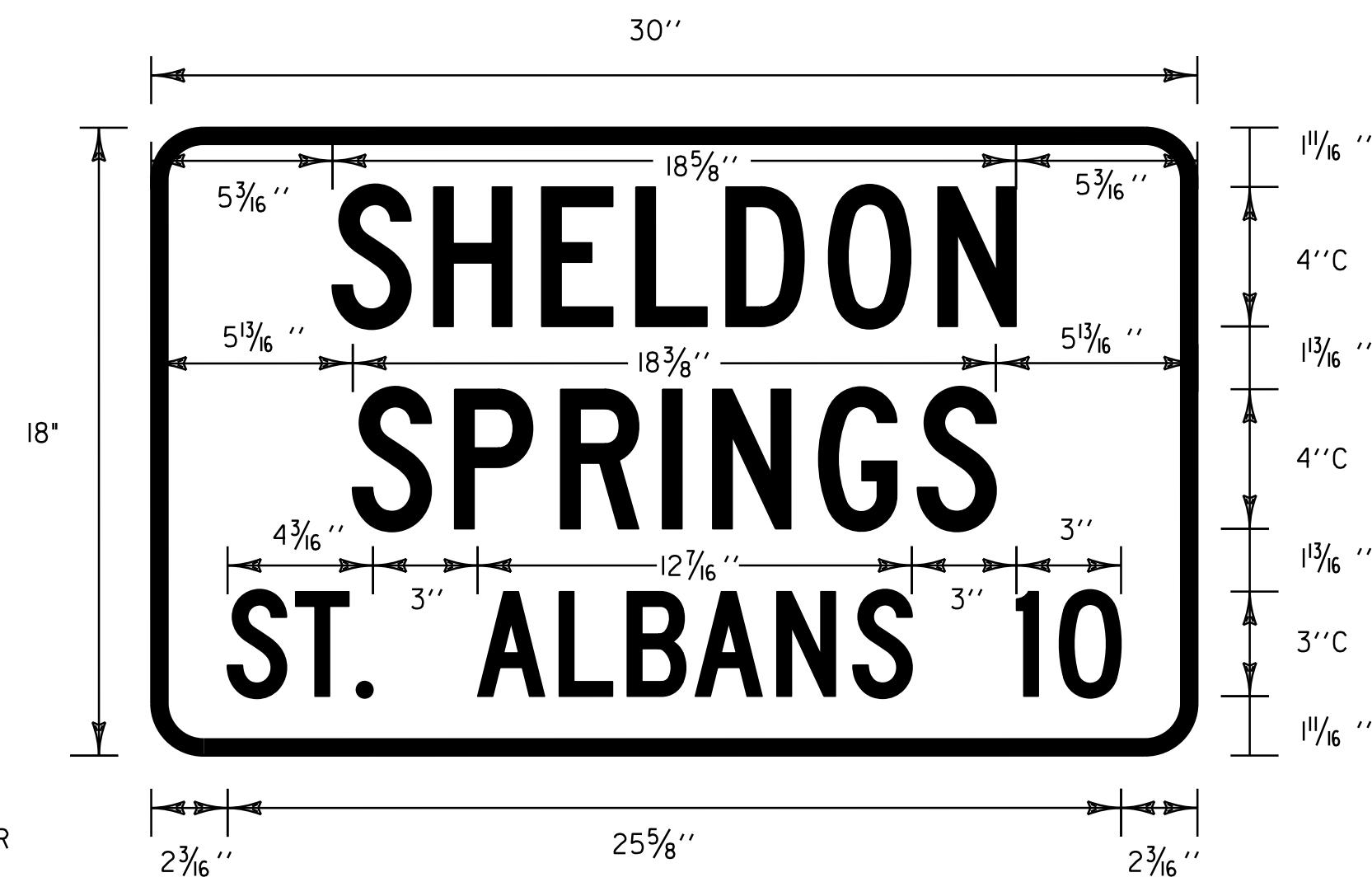
PROJECT NAME: SHELDON-ENOSBURG
PROJECT NUMBER: STP 2714(I)

FILE NAME: p07b180.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p07b180tss05.i

PLOT DATE: 07-NOV-2011 16:46
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 18 OF 29

TRAFFIC SIGN SUMMARY SHEET 08

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW & SALVAGED SIGNS				EXIST POST RETAIN	NO. OF POSTS	NEW SIGN POSTS																REMARKS	SIGN DETAIL					
		E A	WIDTH (in)	HEIGHT (in)	"A"	"B"	SALV SIGN			SALV TIS	FLANGED CHANNEL			SQUARE STEEL (in)			TUBULAR ALUMINUM Ø (in)			TUBULAR STEEL Ø (in)				W-SHAPE STEEL			REQUIRE SIGNMENT	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER			
											1.2	2.0	3.0	1.75	2.0	2.5	3.0	4.0	4.0 MOD	FOUND-ATION	3.0	3.5	4.0	5.0	FTG. SIZE					WEIGHT	POST SIZE	
																									lb/ft							lb/ft
VT ROUTE 105										OPTION ITEMS																						
ENOSBURG (CONT.) 0.423, RT		I	24	30	5.00				I					X		X											SIGN ID CODE VR-017 (CENTER STREET)	E-14				
0.430, RT 0.423, RT		I	30	30	6.25				I					X		X											SIGN ID CODE RI-1 (CENTER STREET) PLACE MM PLAQUE BACK TO BACK WITH STOP SIGN	E-143 E-138				
0.450, LT	 	I	24	30	5.00				I					X		X											SIGN ID CODE R2-1 SIGN ID CODE VR-038	E-142 E-141				
SHEET TOTAL						19.67																										
TSS SHEET 1 SUBTOTALS						67.60								15	210																	
TSS SHEET 2 SUBTOTALS						39.60								30																		
TSS SHEET 3 SUBTOTALS						61.21								180																		
TSS SHEET 4 SUBTOTALS						73.10								15	165																	
TSS SHEET 5 SUBTOTALS						59.34								30	195																	
TSS SHEET 6 SUBTOTALS						38.00								90	90																	
TSS SHEET 7 SUBTOTALS						53.75								30	120																	
TSS SHEET 8 SUBTOTALS						19.67								-	45																	
PROJECT SUBTOTALS						412.27								210	1185																	
ROUNDING						0.73								5																		

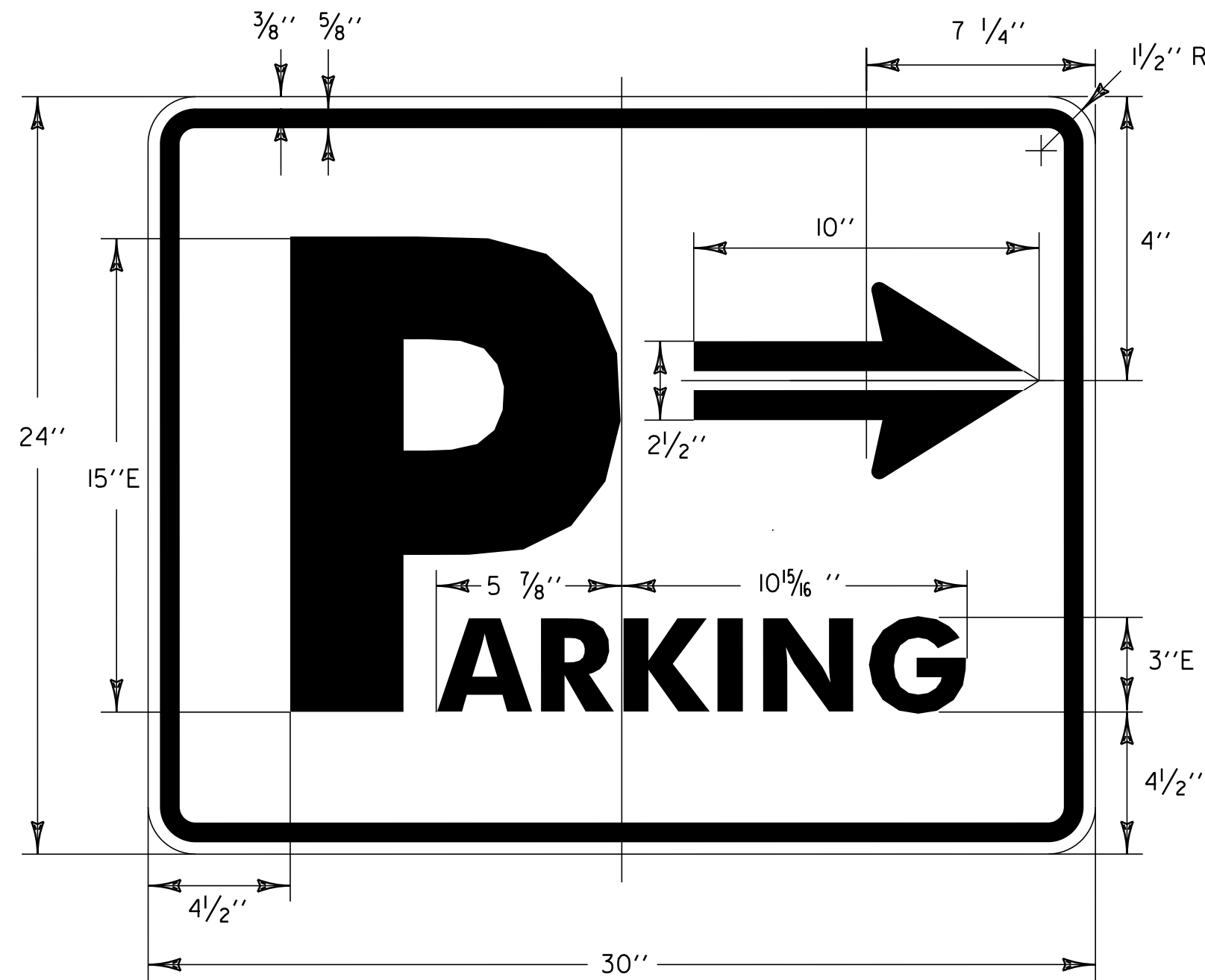


BORDER
R=1/2"
TH=1/2"

WHITE (RETROREFLECTIVE) TEXT WITH GREEN (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-128B FOR MATERIALS

LOCATIONS

SHELDON
MM 3.392, LT

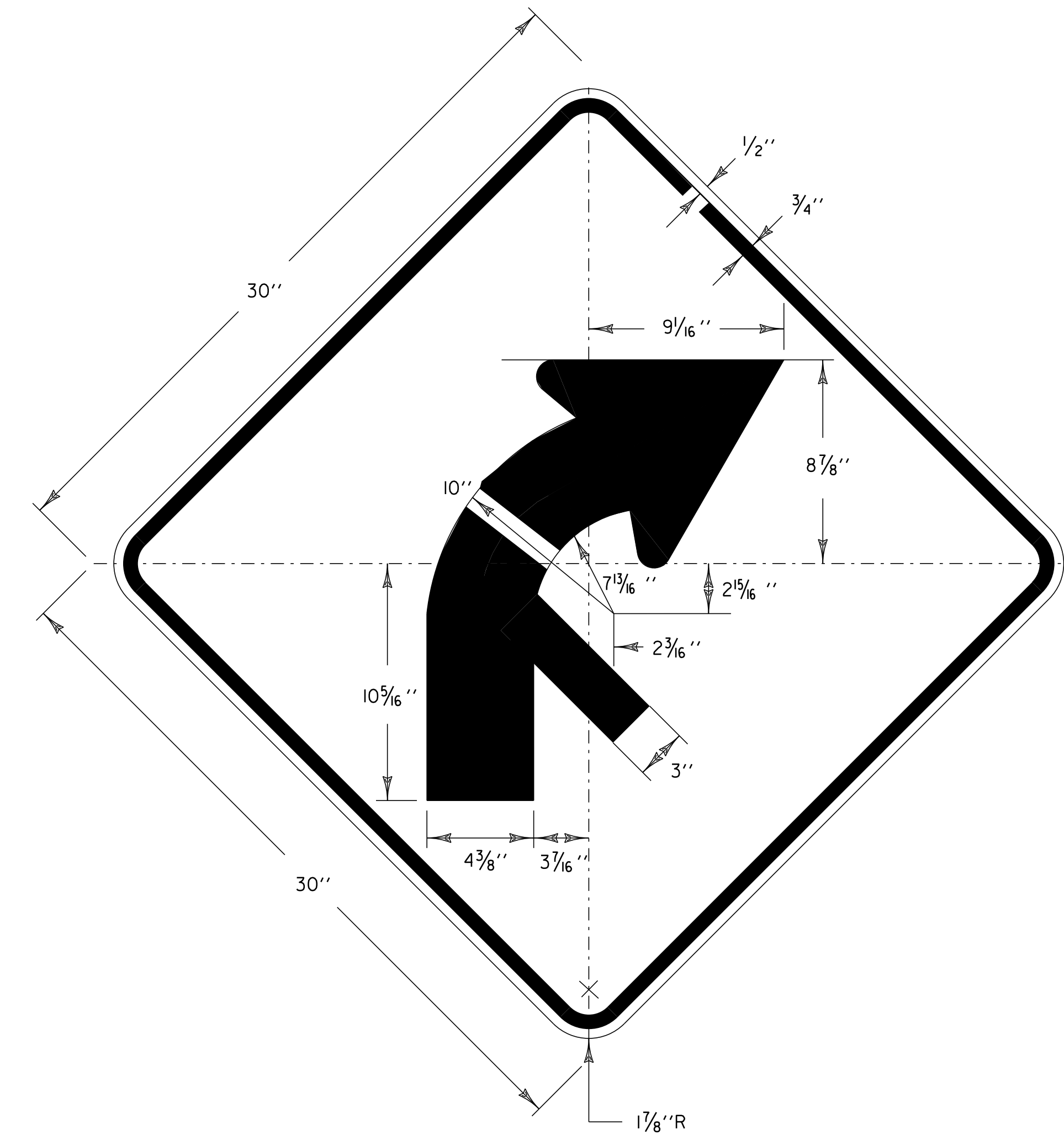


D4-1

WHITE (RETROREFLECTIVE) TEXT WITH GREEN (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-128B FOR MATERIALS

LOCATIONS

SHELDON
MM 7.170, RT



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

LOCATIONS

SHELDON
MM 5.177, LT

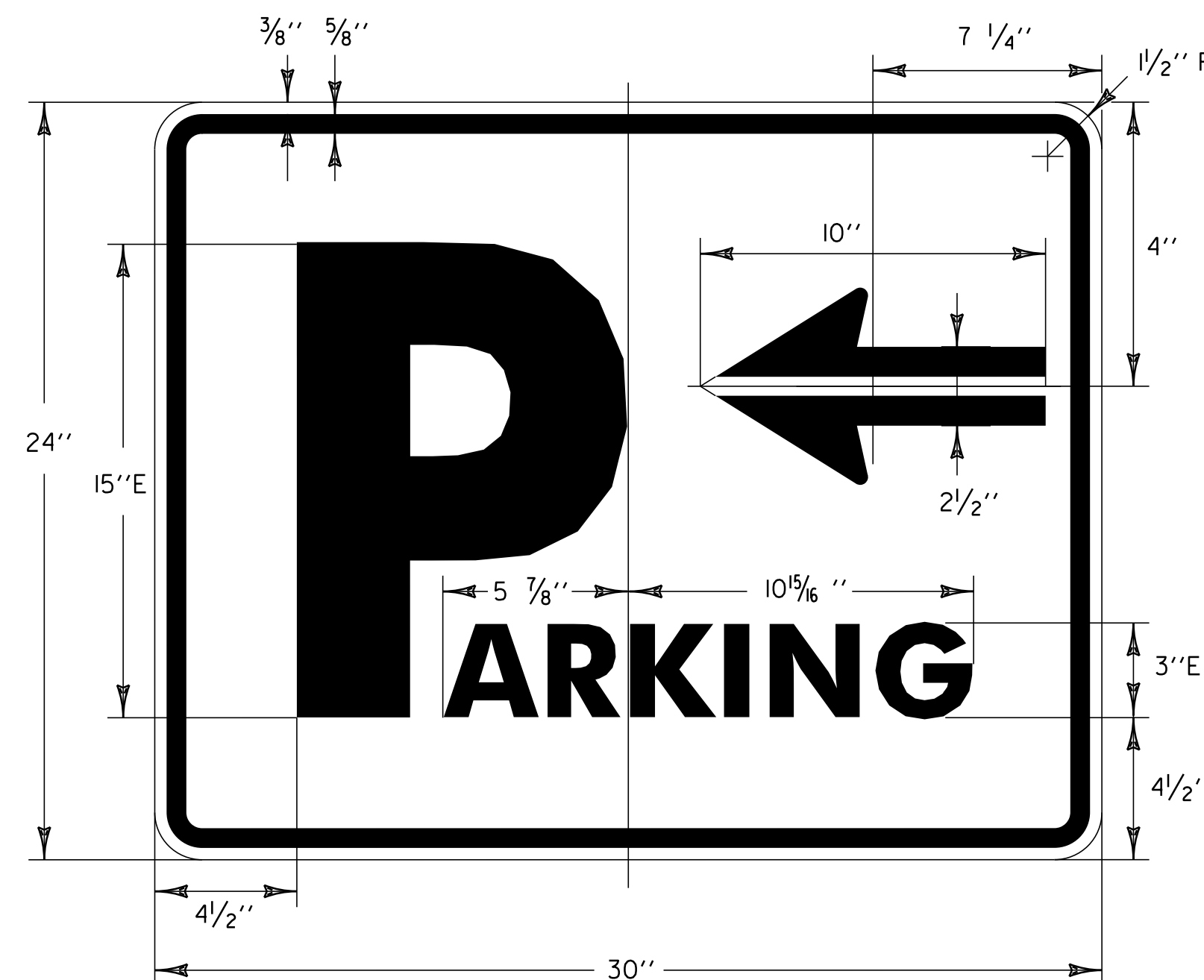


BORDER
R=1/2"
TH=3/8"
IN=3/8"

BLACK TEXT WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATIONS

SHELDON
MM 2.579, RT
MM 7.262, LT
ENOSBURG
MM 0.321, LT



D4-1

WHITE (RETROREFLECTIVE) TEXT WITH GREEN (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-128B FOR MATERIALS

LOCATIONS

SHELDON
MM 7.229, LT

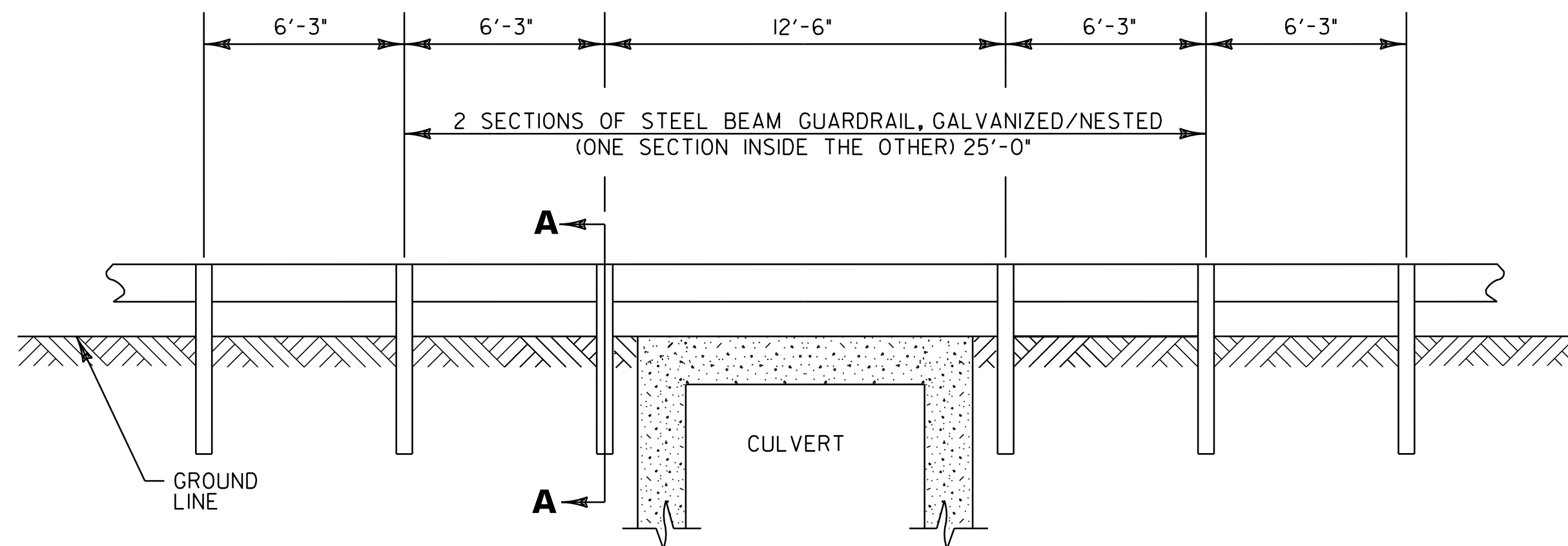
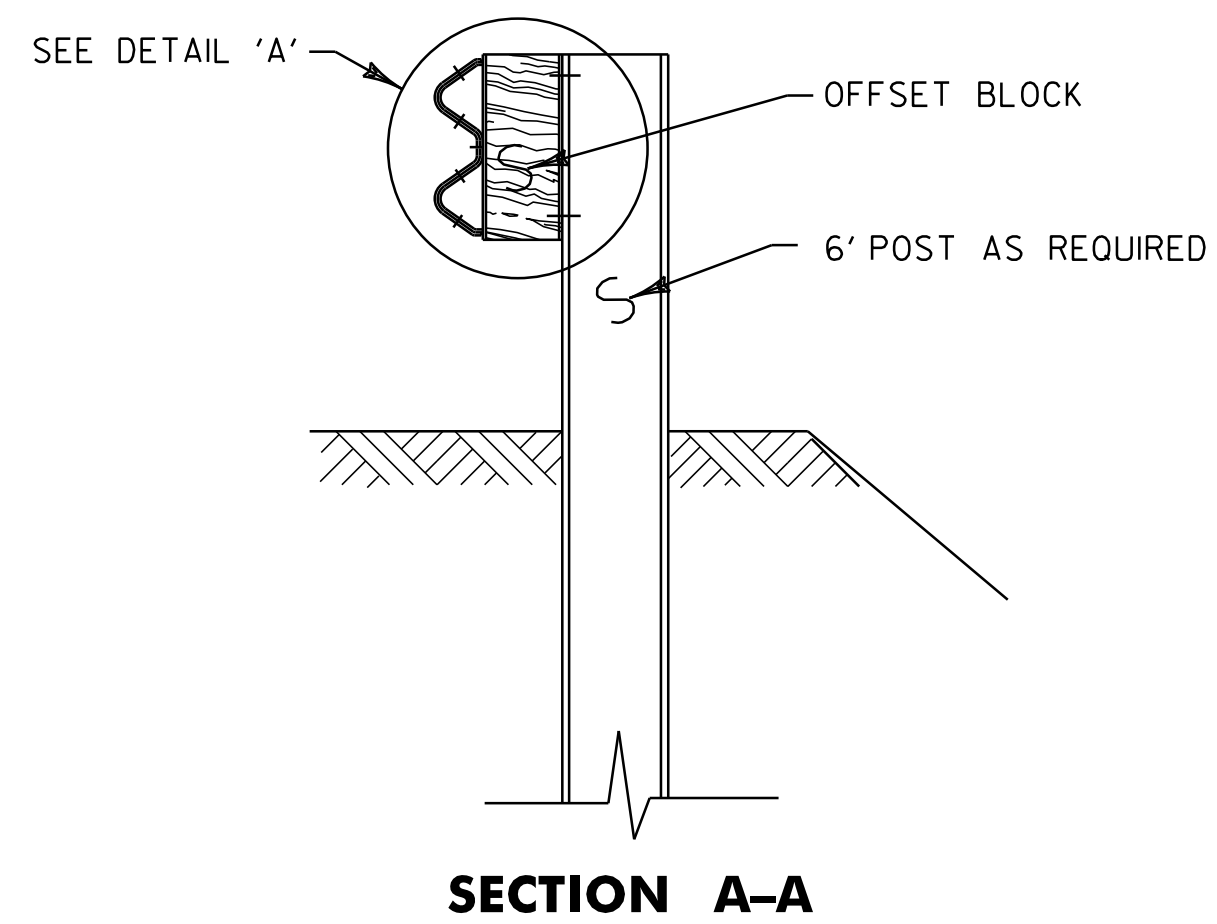
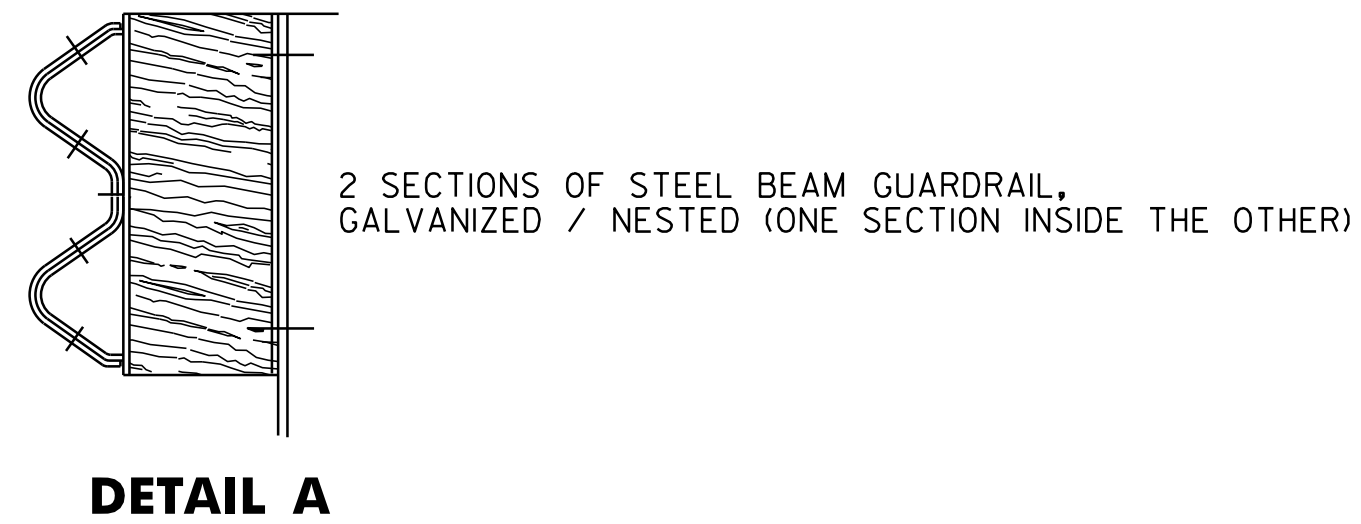


**TRAFFIC
SIGN
DETAILS**

PROJECT NAME: SHELDON-ENOSBURG
PROJECT NUMBER: STP 2714(I)

FILE NAME: p07b180.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p07b180tsd.i

PLOT DATE: 07-NOV-2011 16:46
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 22 OF 29



**DETAIL OF STEEL BEAM GUARDRAIL
AT LARGE CULVERTS (BRIDGE #14)**

SHELDON MM 9.174, LT & RT

NOTES:

1. SEE VAOT STANDARDS G-1 & G-1d FOR STEEL BEAM GUARDRAIL DETAILS
2. THIS WORK SHALL BE PAID UNDER ITEM 621.206, STEEL BEAM GUARDRAIL, GALVANIZED / NESTED.
3. THIS DETAIL TO BE USED AS INDICATED ON THE ITEM DETAIL SUMMARY SHEET OR AS DIRECTED BY THE RESIDENT ENGINEER.

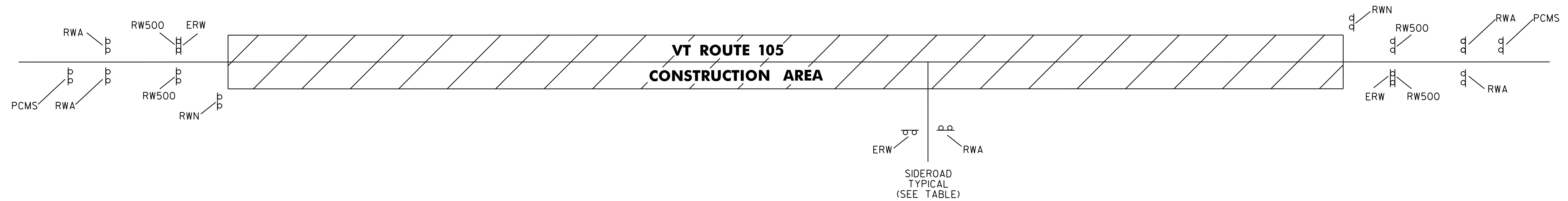
**GUARDRAIL
DETAIL SHEET**

PROJECT NAME: SHELDON-ENOSBURG
PROJECT NUMBER: STP 2714(I)

FILE NAME: p07b180.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p07b180gcds.i

PLOT DATE: 07-NOV-2011 16:46
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 24 OF 29





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

LOCATION	ERW	RW500	RWA	SRWA	SRW500	RWN	PCMS
SHELDON							
VT ROUTE 105 - BEGIN PROJECT	1	2	2			1	1
MILL STREET (TH 43) (WESTERLY LEG)	1		1				
SWEET HOLLOW ROAD (TH 28)	1		1				
SHAWVILLE ROAD (TH 28)	1		1				
MILL STREET (TH 1) (EASTERLY LEG)	1		1				
SCHOOL STREET (TH 48)	1		1				
POOR FARM ROAD (TH 29)	1		1				
BERGERON ROAD (TH 21)	1		1				
MAIN STREET (TH 4)	1		1				
CLARK ROAD (TH 47)	1		1				
SEVERANCE ROAD (TH 41)	1		1				
VT ROUTE 78	1			1	1		
CASINO ROAD (TH 40)	1		1				
SHELDON HEIGHTS (TH 52)	1		1				
DANYOW ROAD (TH 39) (WESTERLY LEG)	1		1				
DANYOW ROAD (TH 39) (EASTERLY LEG)	1		1				
VT ROUTE 120	1		1				
KANE ROAD (TH 3)	1			1	1		
VT ROUTE 236	1			1	1		
COLTON ROAD (TH 8)	1		1				
ENOSBURG							
ORCHARD STREET (TH 8)	1		1				
ST. ALBANS STREET (TH 7)	1		1				
CENTER STREET	1		1				
VT ROUTE 105 - END PROJECT	1	2	2			1	1
TOTAL	24	4	23	3	3	2	2

LEGEND

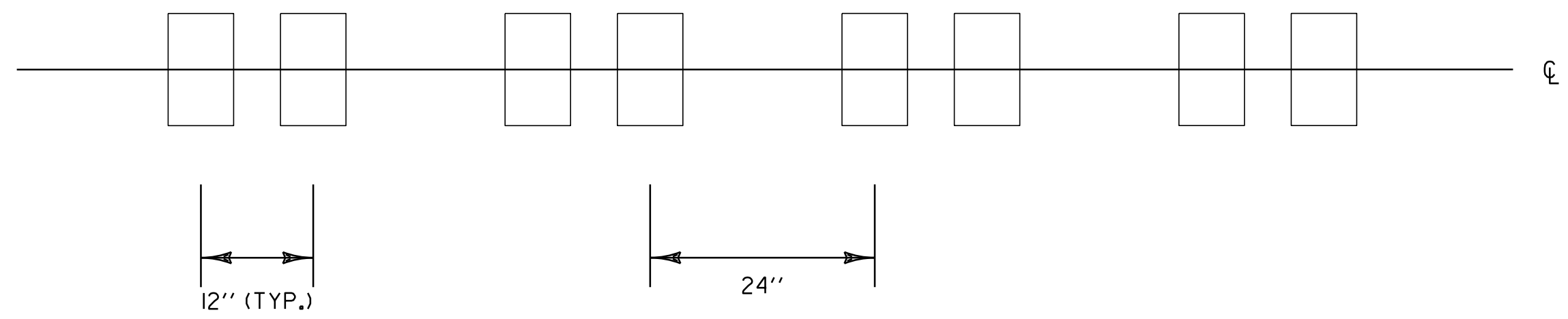
- ERW = END ROAD WORK
- RW500 = ROAD WORK 500 FT
- RWA = ROAD WORK AHEAD
- SRWA = SIDE ROAD WORK AHEAD
- SRW500 = SIDE ROAD WORK 500 FT
- RWN = ROAD WORK NEXT 9 1/2 MILES
- PCMS = PORTABLE CHANGEABLE MESSAGE SIGN

NOTES:

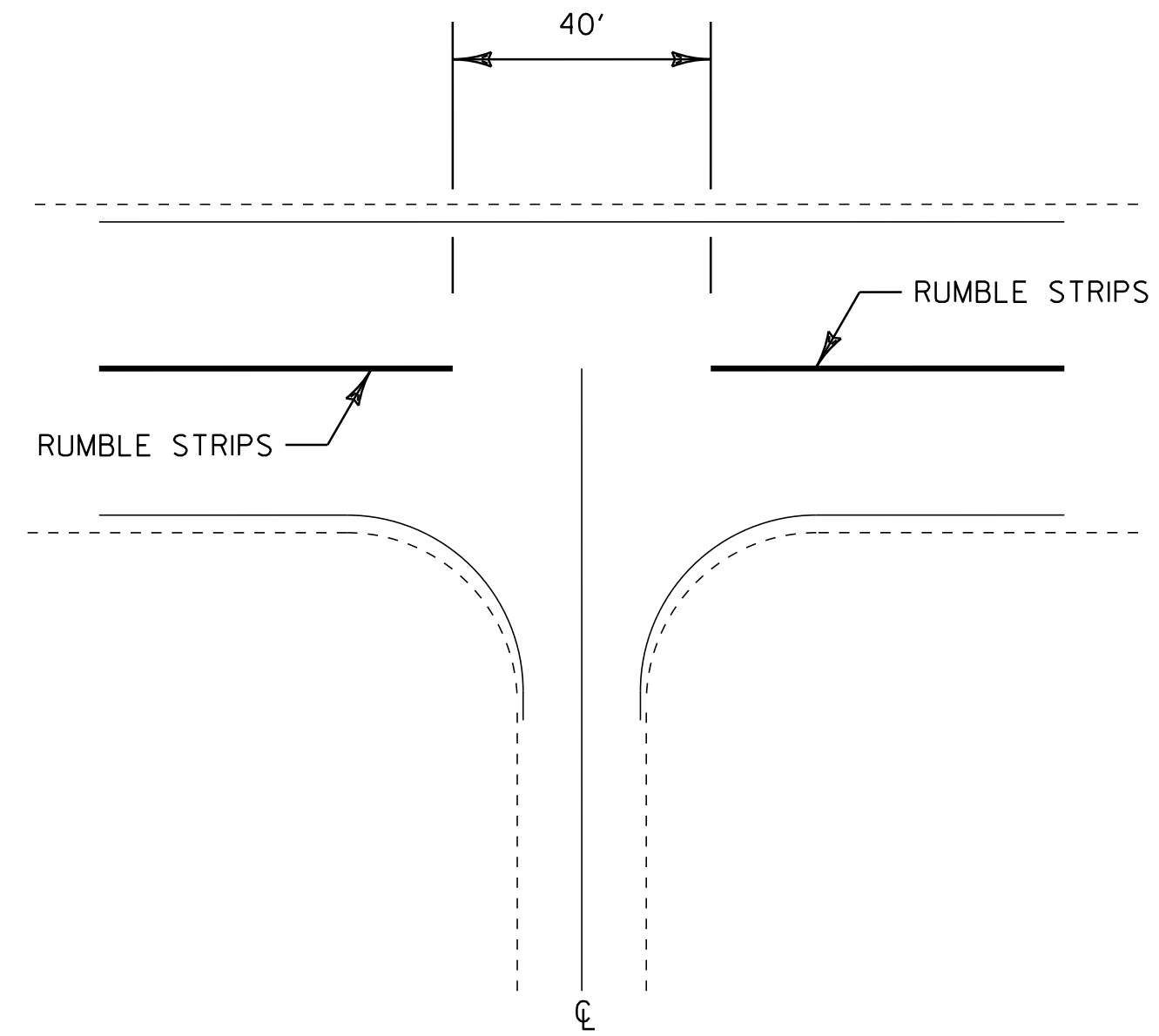
1. SEE VAOT STANDARD E-100 FOR ADDITIONAL SIGN PLACEMENT DETAILS.
2. CONSTRUCTION ZONE SIGN LAYOUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS AND SPECIAL PROVISIONS.
4. DIAMOND SHAPED SIGNS SHALL BE 4' X 4' WITH BLACK TEXT AND BORDER ON A RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.
5. RETROREFLECTIVE SHEETING SHALL BE TYPE III OR 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 BOTTOMS OF THE SIGNS ARE 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 RESIDENT ENGINEER. PAYMENT WILL BE MADE UNDER ITEM 641.15.



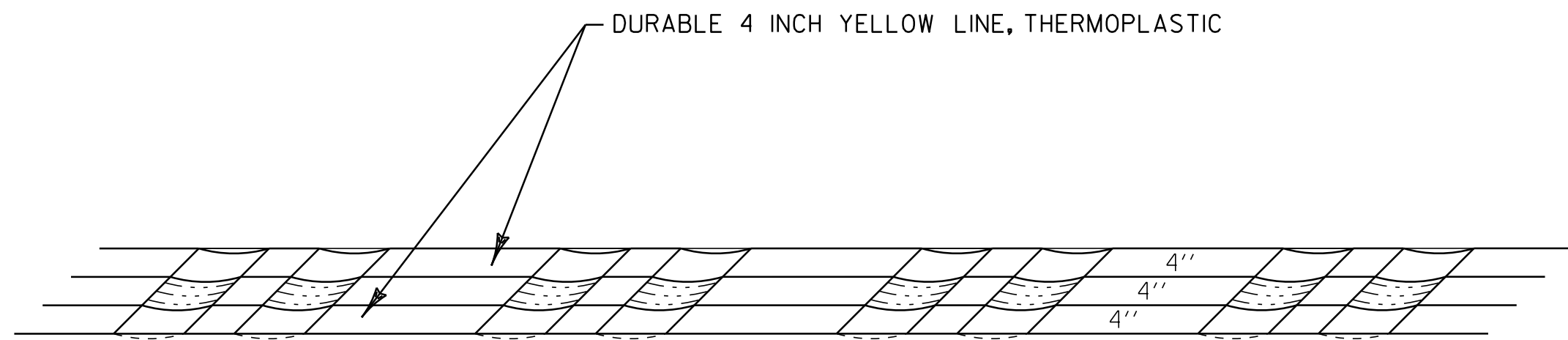
TEMPORARY TRAFFIC CONTROL PLAN SHEET	PROJECT NAME: SHELDON-ENOSBURG
	PROJECT NUMBER: STP 2714(1)
	FILE NAME: p07b180.dgn
	PLOT DATE: 07-NOV-2011 16:46
PROJECT LEADER: JLL	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: JLL
IPARM FILE: p07b180tfc.p	SHEET 25 OF 29



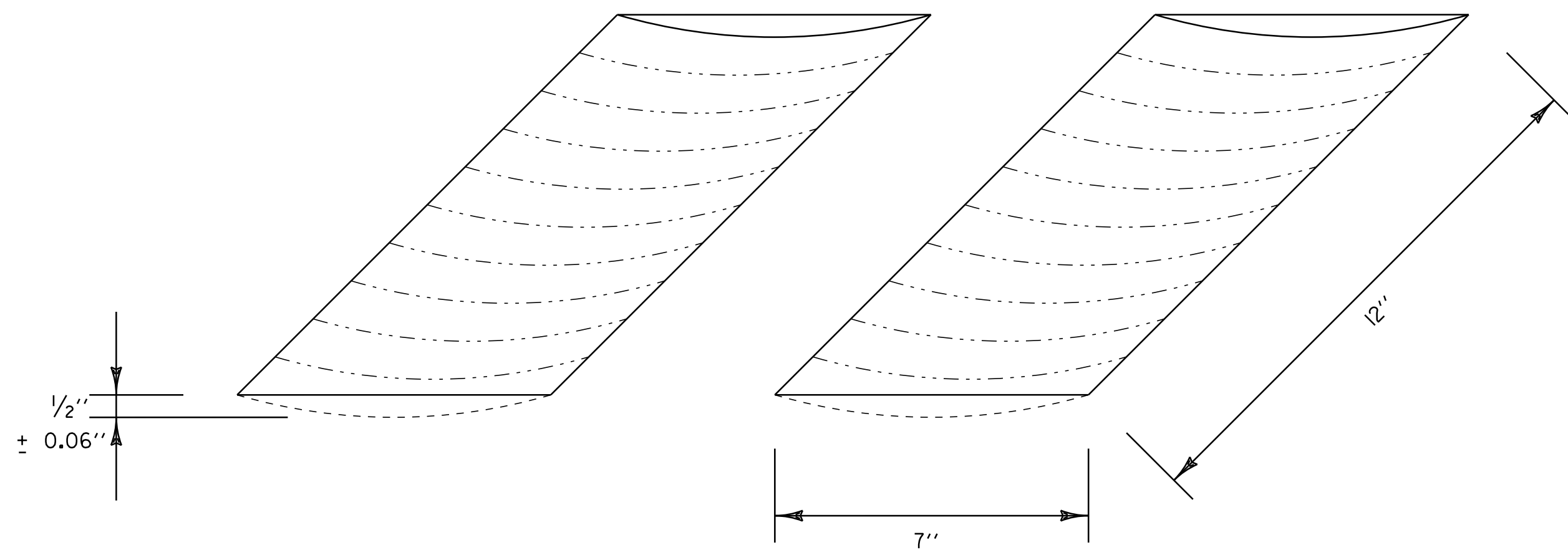
RUMBLE STRIP LAYOUT



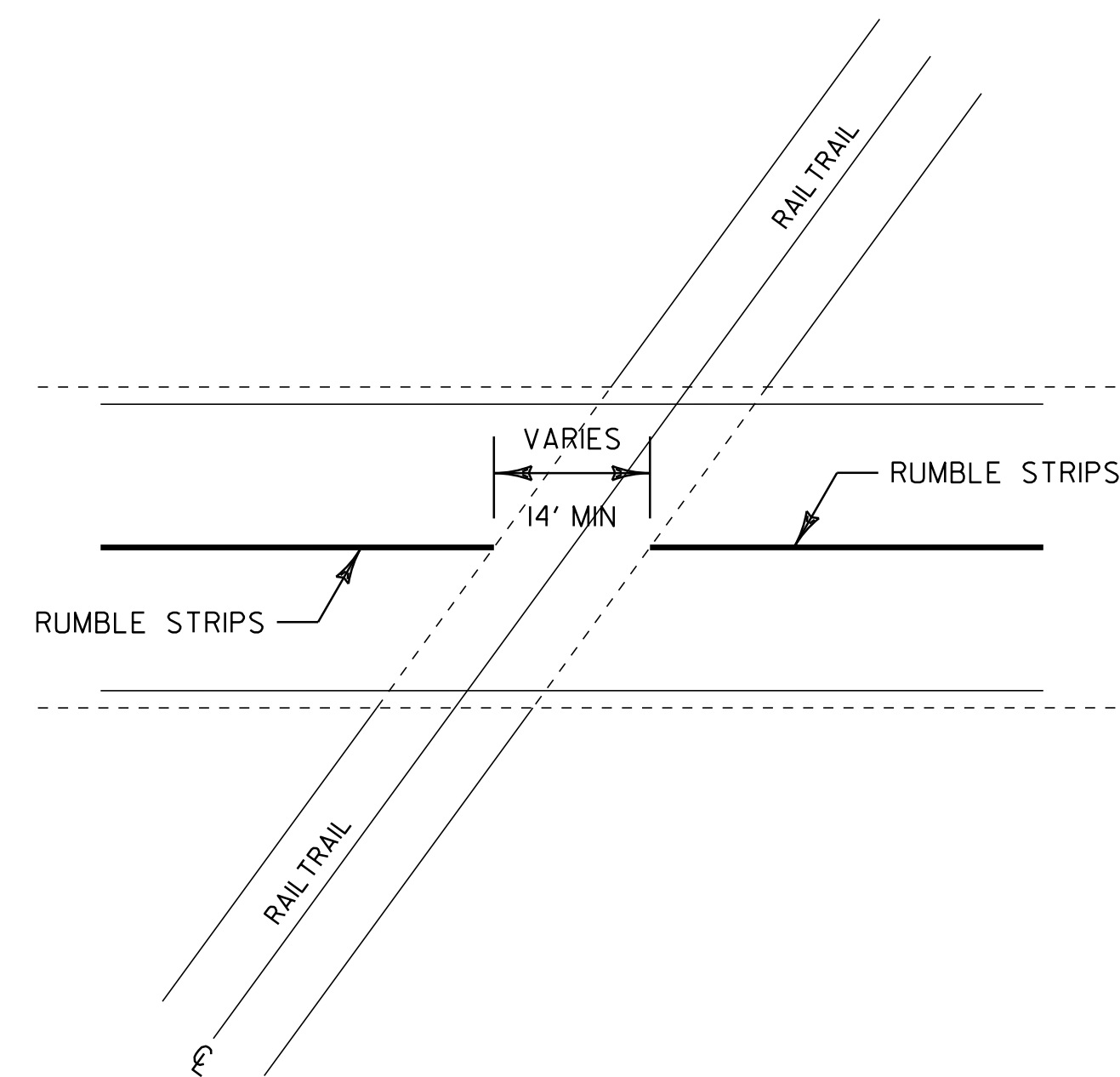
INTERSECTION DETAIL



PAVEMENT MARKINGS DETAIL



RUMBLE STRIP DETAIL



RAILTRAIL CROSSING DETAIL

NOTES

1. CENTERLINE RUMBLE STRIPS NOT TO EXTEND BEYOND CENTERLINE WHEN CENTERLINE IS A DOUBLE YELLOW LINE, WITH OR WITHOUT A PASSING ZONE.
2. CENTERLINE RUMBLE STRIP TO BE PLACED ALONG CENTERLINE OF ROADWAY.
3. CENTERLINE RUMBLE STRIP TO STOP 20 FEET PRIOR TO THE CENTERLINE OF AN INTERSECTION.
4. WIDTH OF GAP AT RAILTRAIL CROSSINGS WILL VARY WITH SKEW OF CROSSING WITH A MINIMUM 14 FOOT GAP TO BE PROVIDED AT ALL RAILTRAIL CROSSINGS.

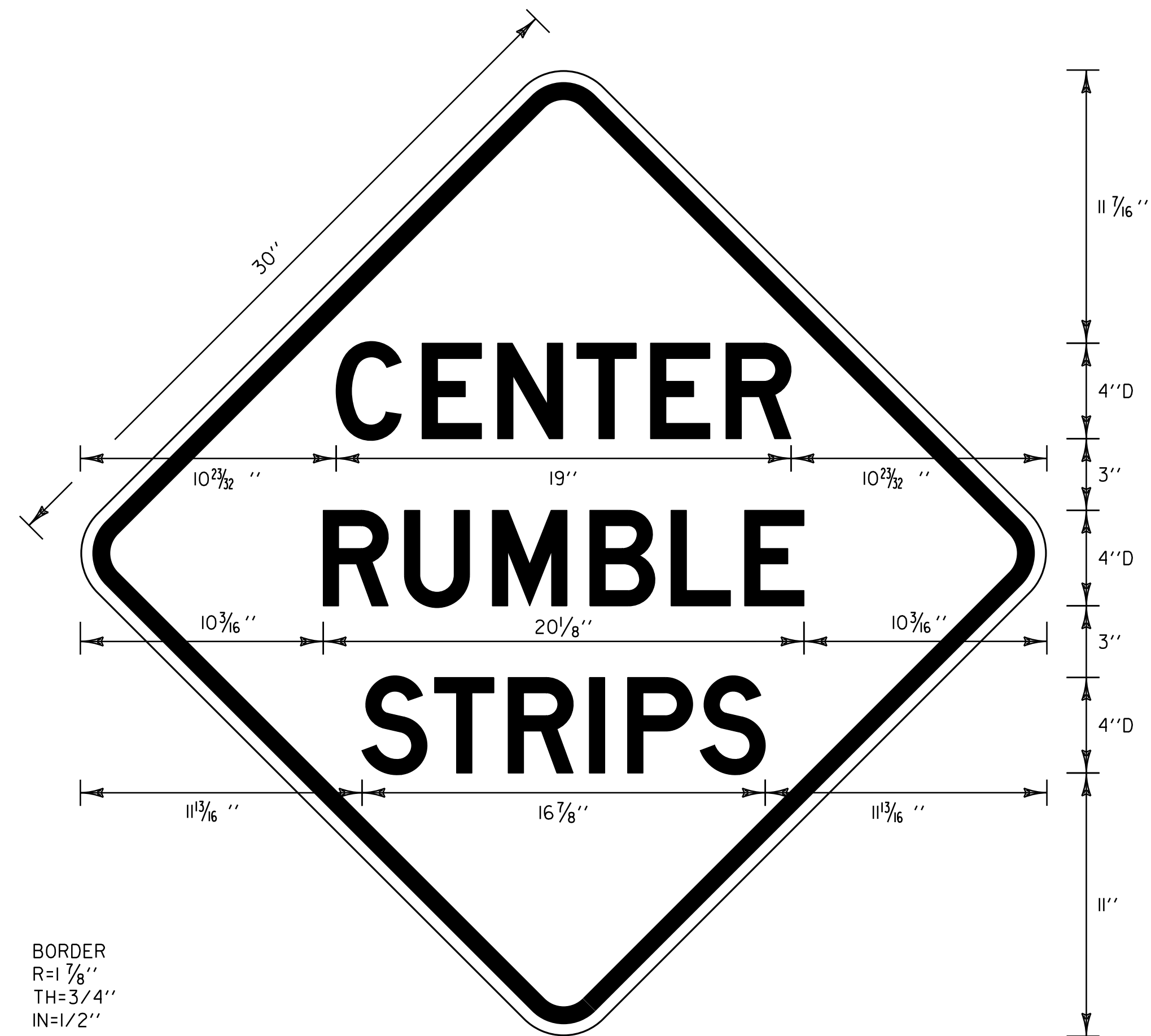


**CENTERLINE
RUMBLE STRIP
DETAIL
SHEET #1**

PROJECT NAME: SHELDON-ENOSBURG
PROJECT NUMBER: STP 2714(I)

FILE NAME: p07b180.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p07b180crsd01.i

PLOT DATE: 07-NOV-2011 16:46
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 26 OF 29



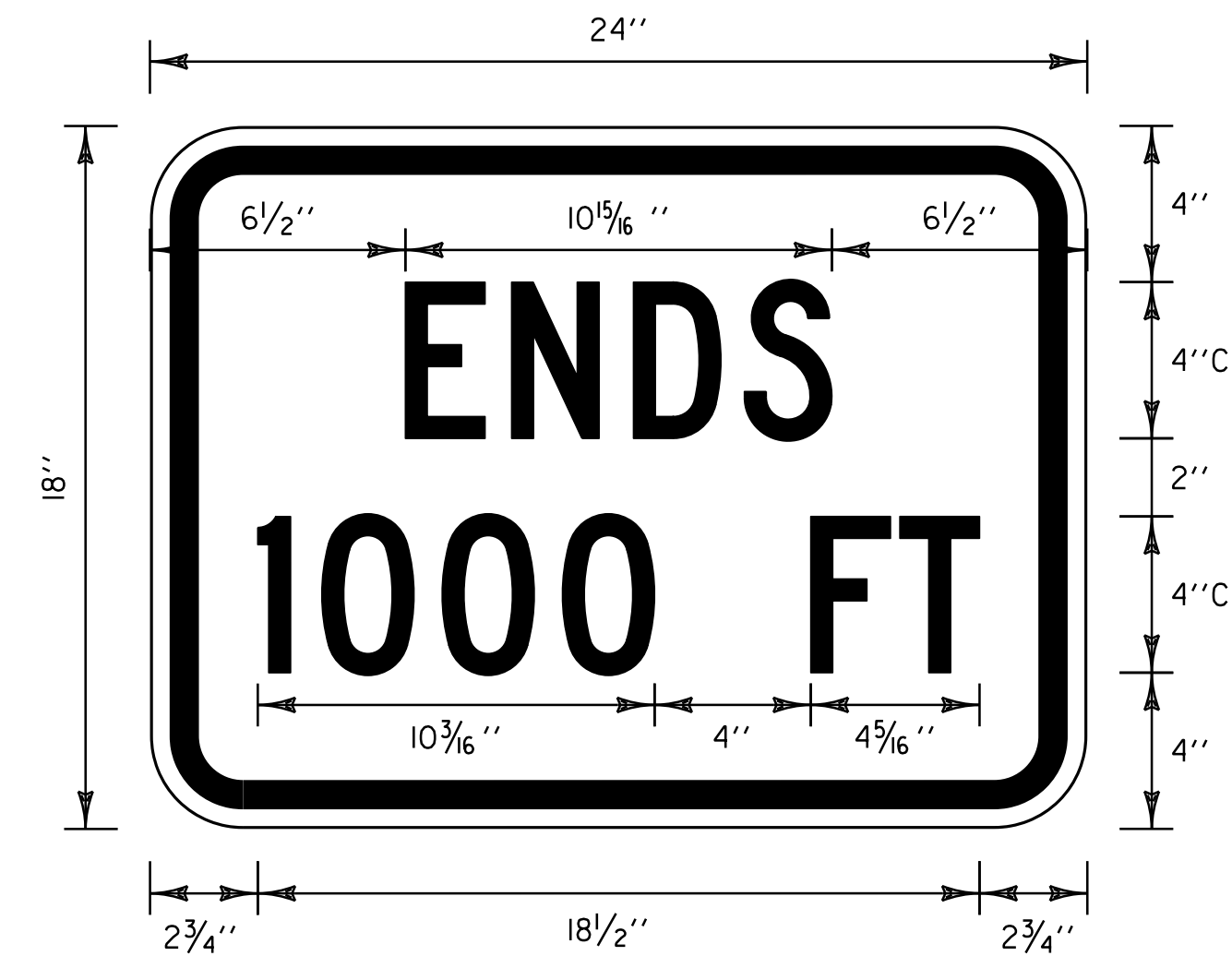
BORDER
R=1 7/8"
TH=3/4"
IN=1/2"

BLACK TEXT WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATIONS

SHELDON
MM 4.706, RT
MM 4.889, LT
MM 10.946, RT

ENOSBURG
MM 0.191, LT

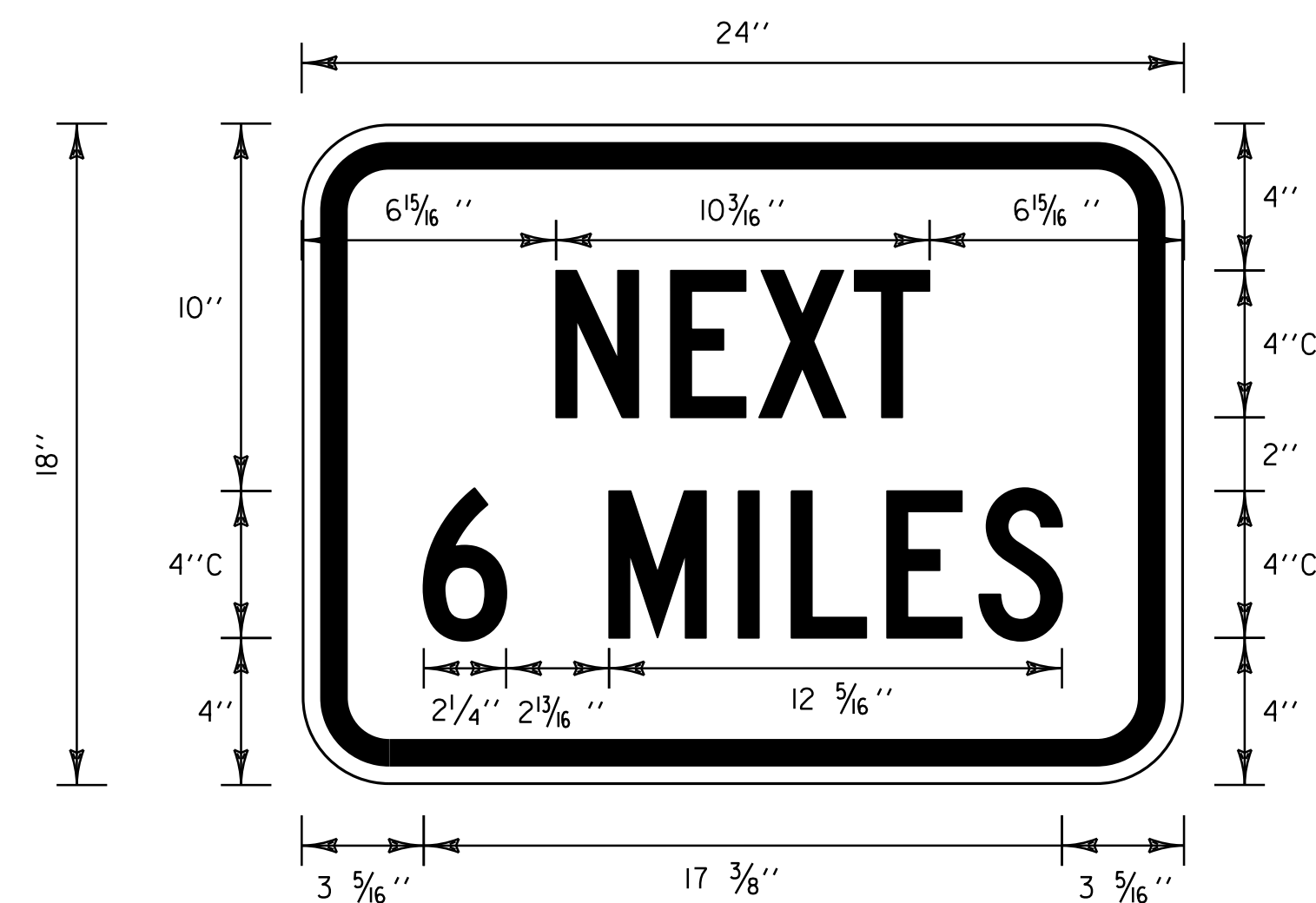


BORDER
R=1 7/8"
TH=3/4"
IN=1/2"

BLACK TEXT WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATIONS

SHELDON
MM 4.889, LT
MM 10.946, RT



BORDER
R=1 7/8"
TH=3/4"
IN=1/2"

BLACK TEXT WITH YELLOW (RETROREFLECTIVE) BACKGROUND
SEE VAOT STANDARD E-150 FOR MATERIALS

LOCATIONS

SHELDON
MM 4.706, RT

ENOSBURG
MM 0.191, LT

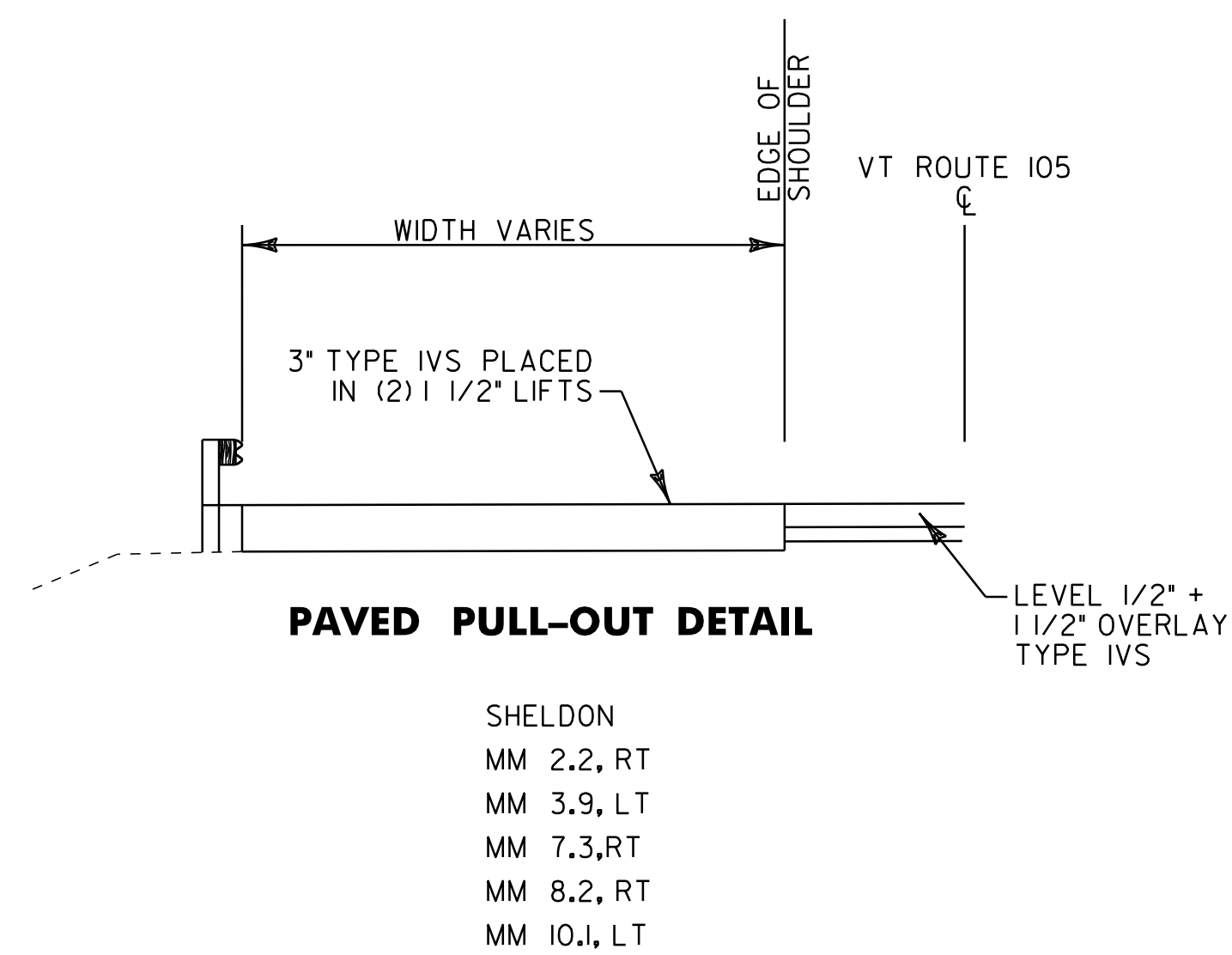


**CENTERLINE
RUMBLE STRIP
DETAIL
SHEET #2**

PROJECT NAME: SHELDON-ENOSBURG
PROJECT NUMBER: STP 2714(I)

FILE NAME: p07b180.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p07b180crsd02.i

PLOT DATE: 07-NOV-2011 16:46
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 27 OF 29

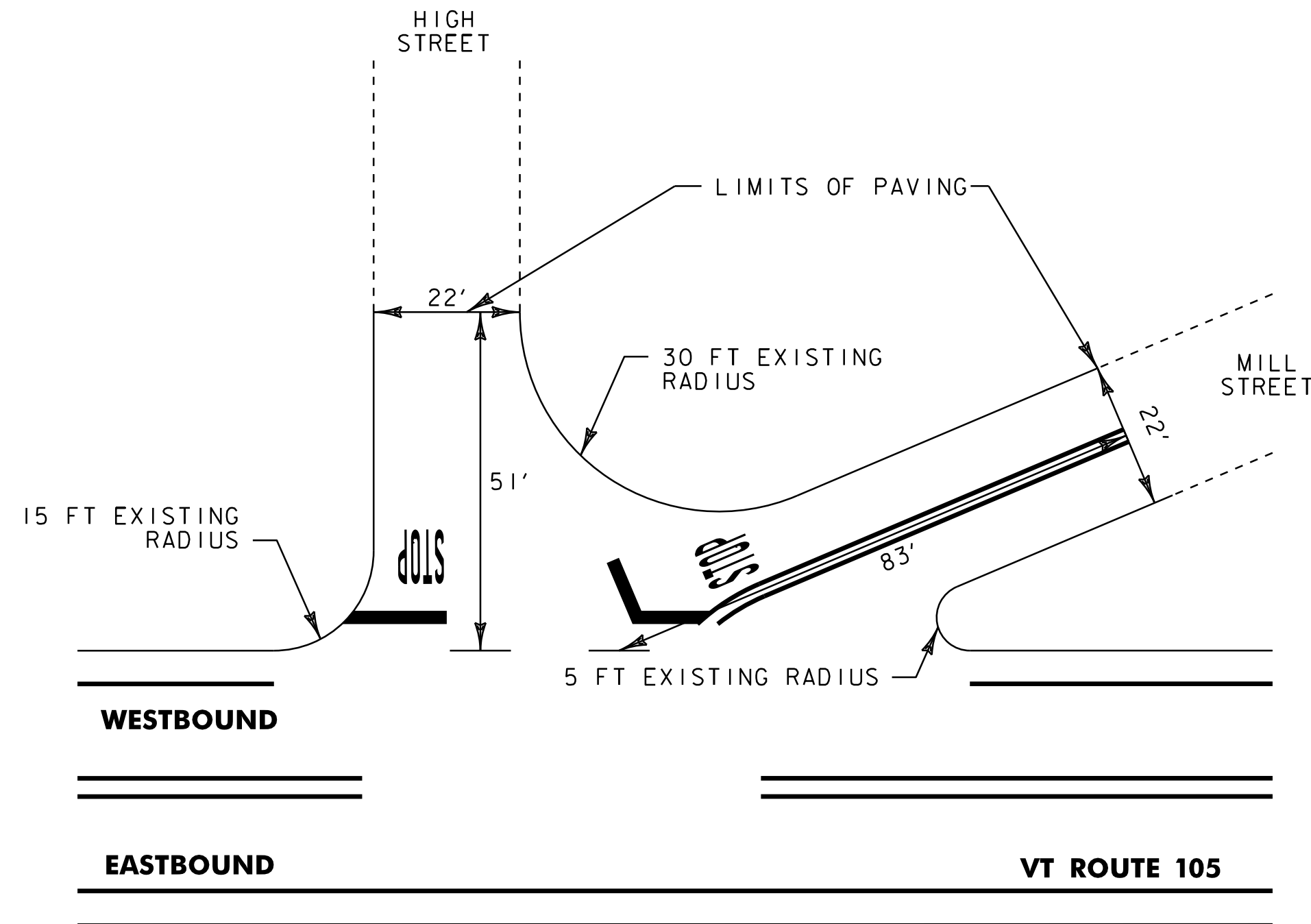


SHELDON
MM 2.2, RT
MM 3.9, LT
MM 7.3, RT
MM 8.2, RT
MM 10.1, LT

NOTES:

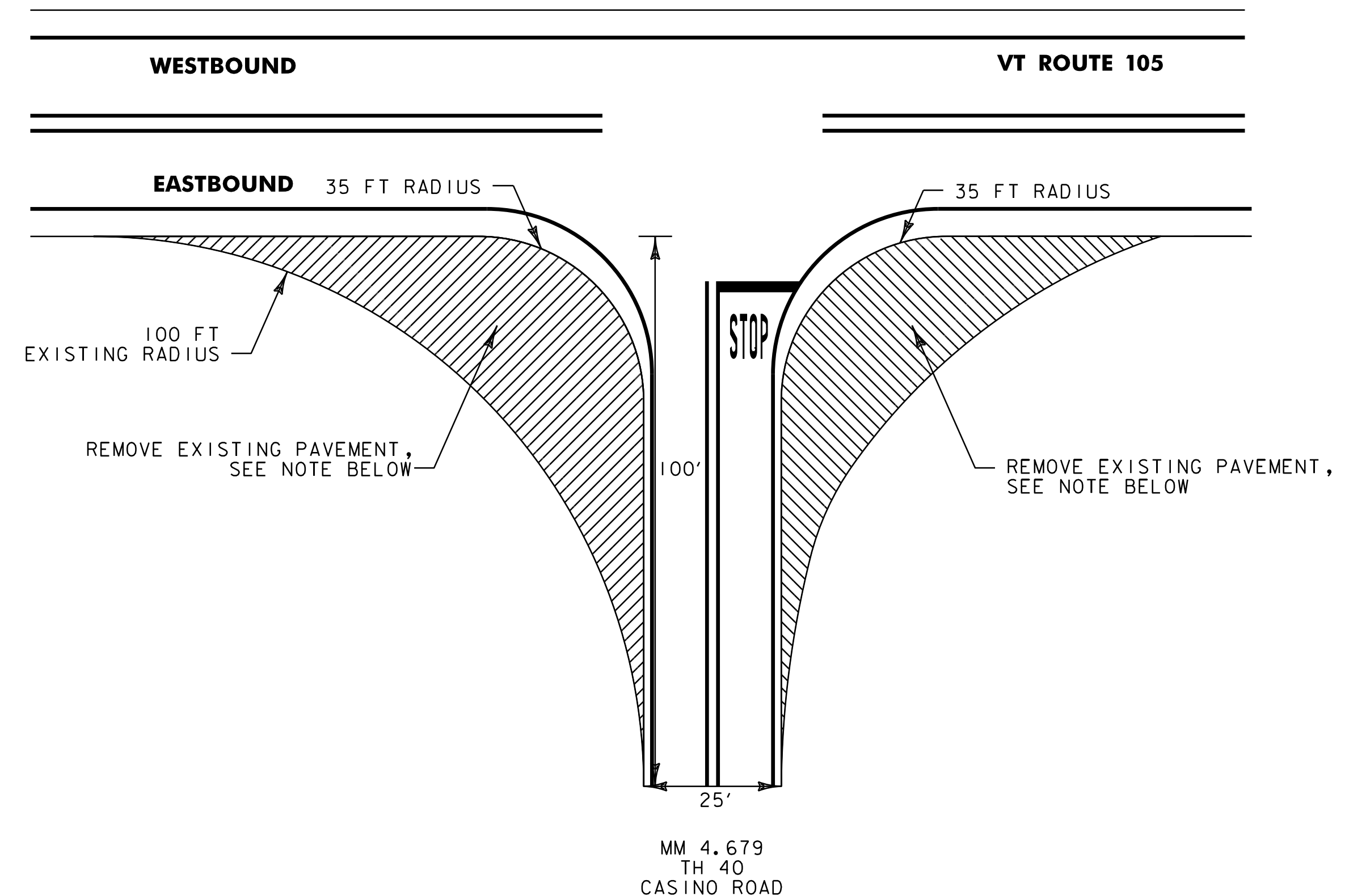
1. GRADE EXISTING GRAVEL PULL-OUT AS NECESSARY TO PROVIDE A SMOOTH SURFACE OR AS DIRECTED BY RESIDENT ENGINEER. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 608.15 POWER GRADER RENTAL.

2. AN ESTIMATED QUANTITY OF ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES) HAS BEEN INCLUDED FOR WORK AT BOTH ENDS OF THE PULL-OUT AS DIRECTED BY THE RESIDENT ENGINEER.



MILL STREET (TH43) PAVING DETAIL

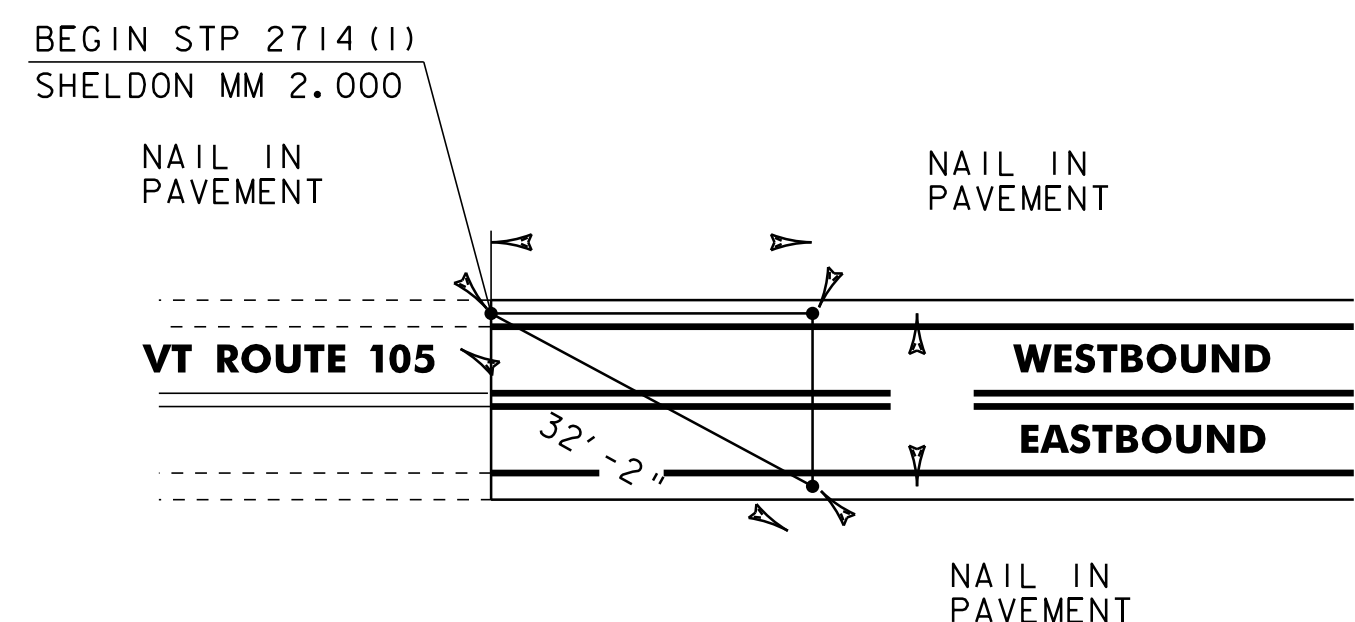
MM 2.354, LT



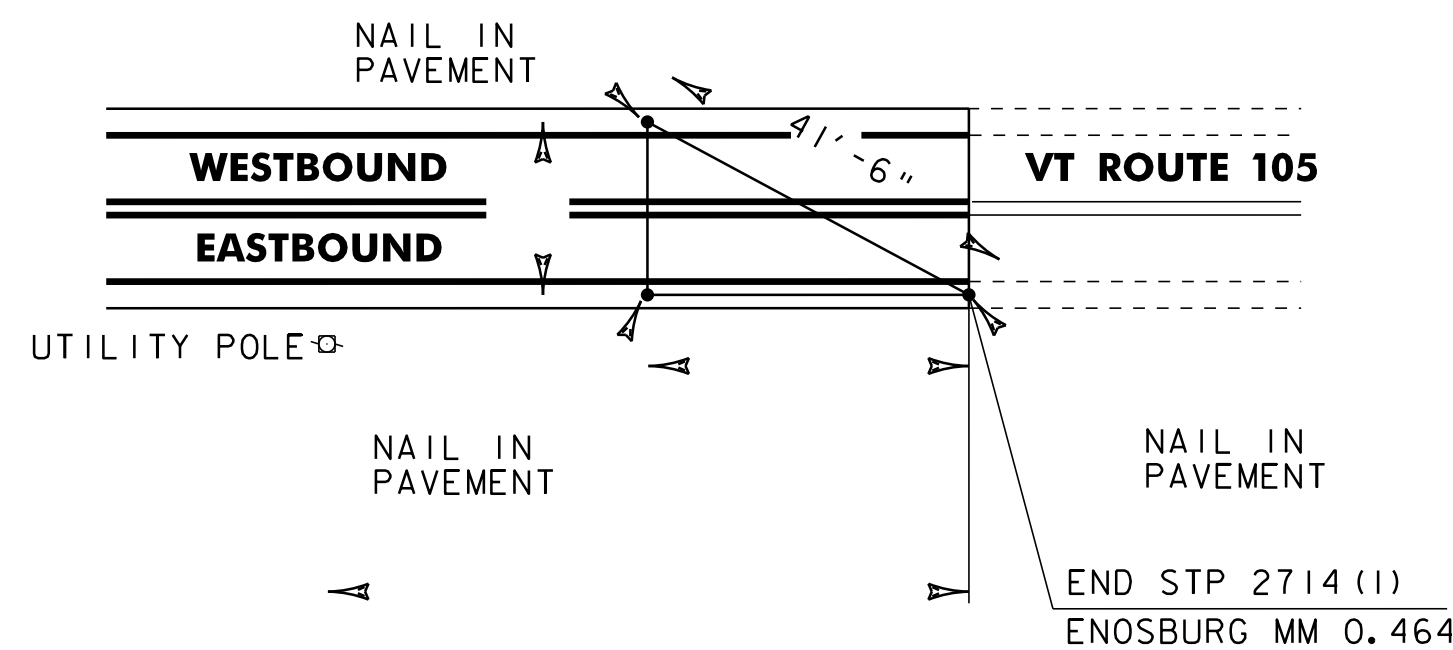
CASINO ROAD PAVEMENT REMOVAL DETAIL

NOTE:

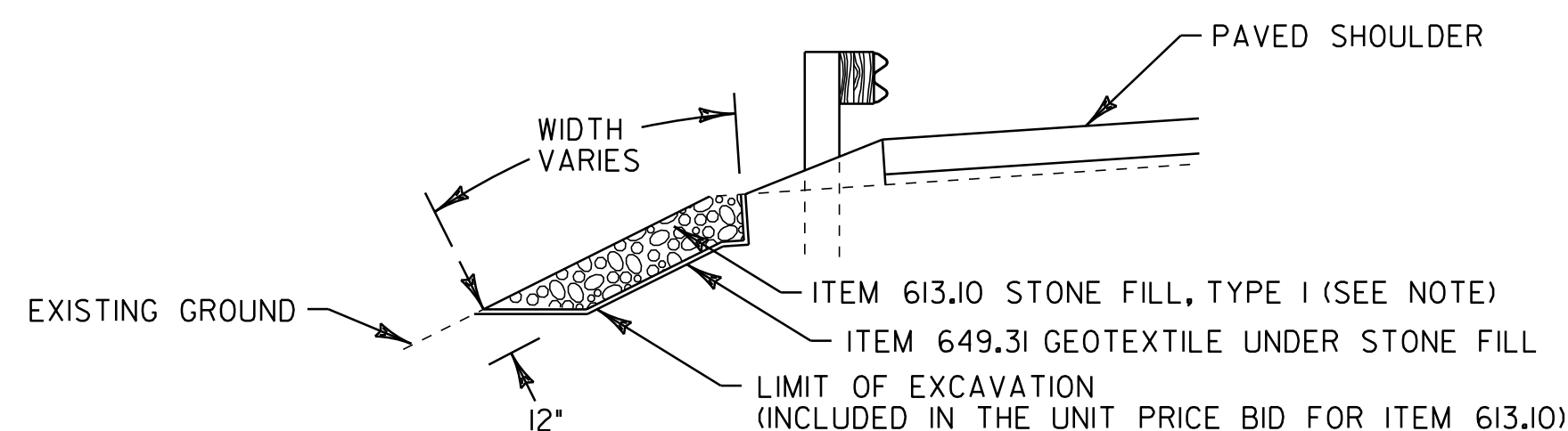
REMOVE 4 INCHES OF EXISTING PAVEMENT AS SHOWN. PAYMENT TO BE MADE UNDER ITEM 203.28 - EXCAVATION OF SURFACES AND PAVEMENTS. IF LESS THAN 4 INCHES OF PAVEMENT IS ENCOUNTERED, REMOVAL OF SUBBASE SHALL BE PAID UNDER ITEM 203.15 - COMMON EXCAVATION. REPLACE WITH 4 INCHES OF ITEM 651.35 - TOPSOIL, 651.15 - SEED, 651.18 - FERTILIZER, 651.20 - AGRICULTURAL LIMESTONE AND 653.20 - TEMPORARY EROSION MATTING. ESTIMATED QUANTITIES OF ALL THESE ITEMS HAVE BEEN INCLUDED FOR USE AS DIRECTED BY THE RESIDENT ENGINEER.



BEGIN PROJECT LOCATION TIES



END PROJECT LOCATION TIES



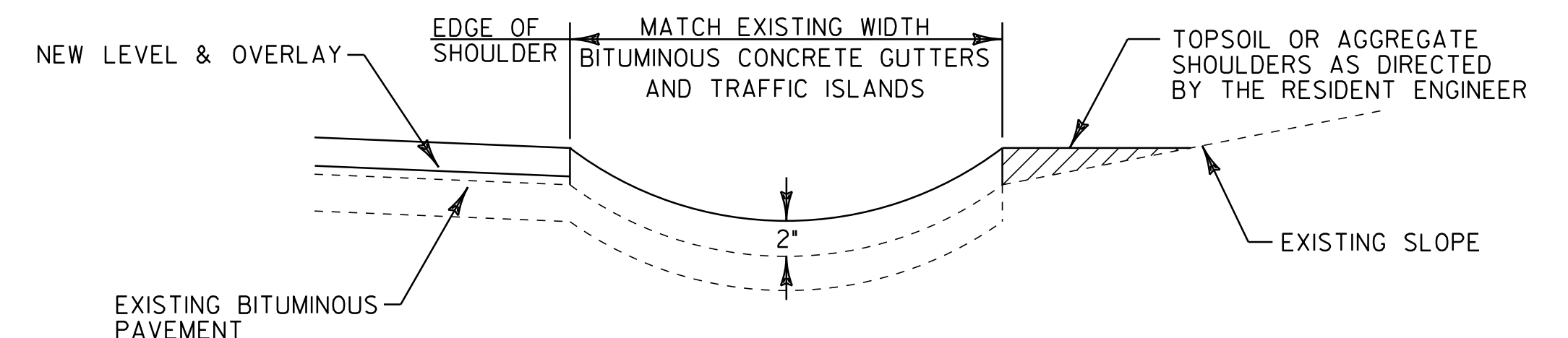
SLOPE EROSION REPAIR DETAIL

(ASSUME A 6' LENGTH UNLESS OTHERWISE NOTED)

SHELDON MM 4.538, RT
MM 5.148, RT
MM 5.738, LT
MM 6.295, RT
MM 9.509, LT
MM 9.510, RT
MM 9.944, RT
ENOSBURG MM 0.402 TO MM 0.412, LT (50' ±)

NOTE:

AN ESTIMATED QUANTITY OF ITEM 613.11 STONE FILL, TYPE II HAS BEEN INCLUDED FOR USE AS DIRECTED BY THE RESIDENT ENGINEER. IF ITEM 613.11 IS NECESSARY, THE ADDITIONAL EXCAVATION DEPTH REQUIRED WILL NOT BE PAID SEPARATELY BUT WILL BE CONSIDERED INCLUDED IN THE UNIT PRICE BID FOR ITEM 613.11 STONE FILL, TYPE II.



BITUMINOUS CONCRETE GUTTER DETAIL

SHELDON
MM 4.912, LT TO MM 5.083, LT
ENOSBURG
MM 0.338 TO MM 0.417, RT

**MISCELLANEOUS
DETAIL
SHEET**



PROJECT NAME: SHELDON-ENOSBURG
PROJECT NUMBER: STP 2714(1)

FILE NAME: p07b180.dgn
PROJECT LEADER: JLL
DESIGNED BY: STANTEC
IPARM FILE: p07b180md.i

PLOT DATE: 07-NOV-2011 16:46
DRAWN BY: STANTEC
CHECKED BY: JLL
SHEET 28 OF 29

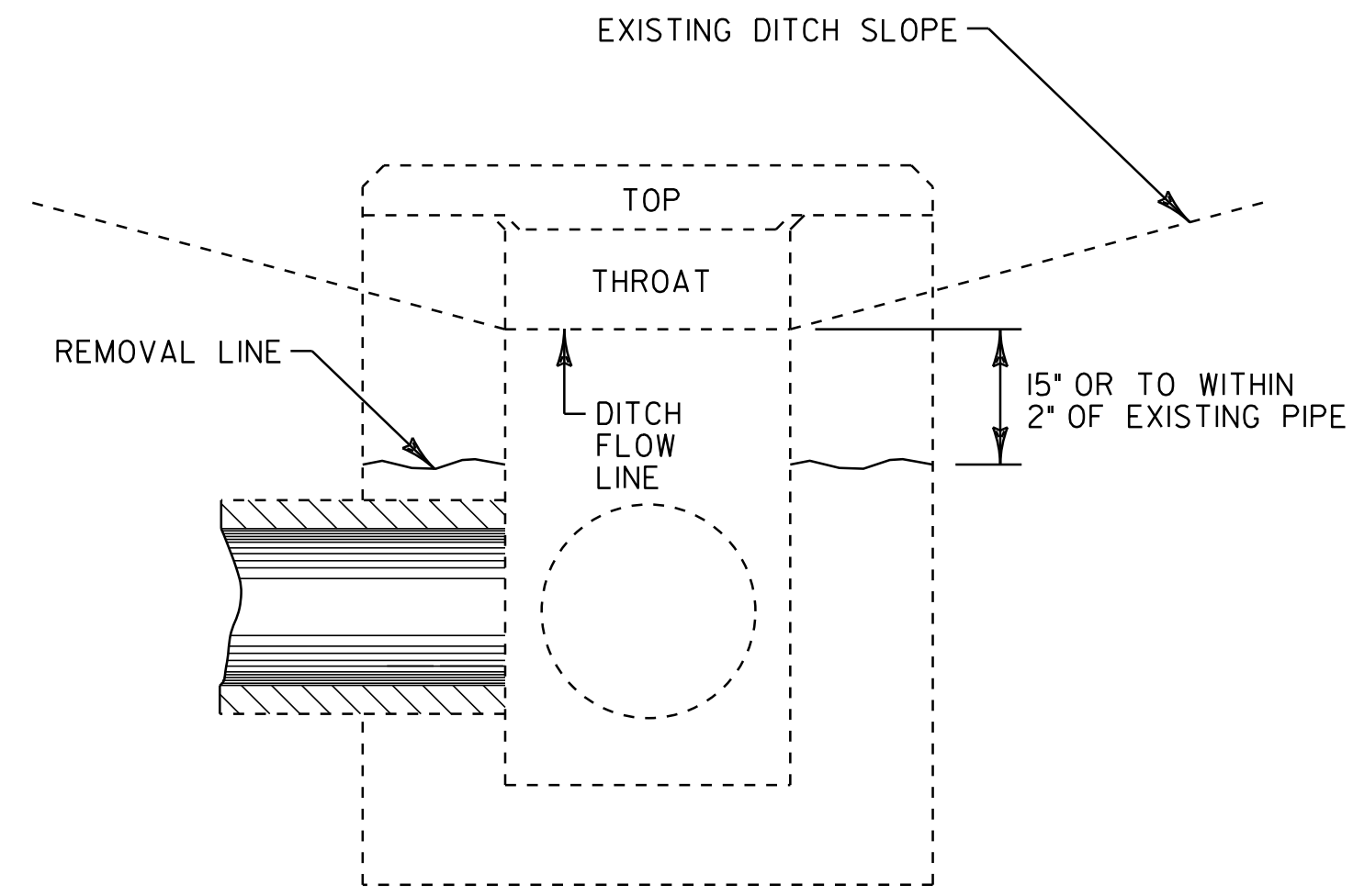
EXISTING CULVERT INVENTORY TABLE

STATION (MM)	CULVERT SIZE	CULVERT MATERIAL	APPROX. DEPTH (FT)	COMMENT
SHELDON				
2.626	10'x10'	CONC. BOX	50	BR #4
2.872	72"	CGMPAC	3	BR #5
3.148	24"	CSP	4.5	
3.191	24"	RCP	4.5	
3.418	24"	RCP	15	
3.534	18"	CSP	4.5	
3.574	18"	RCP	4.5	
3.630	4'x5'	CONC. BOX	3	BR #7
3.658	54"	RCP	7.5	BR #8
3.705	36"	CMP	4	
3.820	24"	RCP	4	
3.889	-	CMP	4	
3.951	18"	CPEP	-	
3.999	15"	-	-	
4.056	4'x6'	CONC. BOX	2	BR #9
4.539	24"	RCP	4.5	
4.582	18"	RCP	5	
4.651	18"	RCP	5	
4.756	9'x6'	CONC. BOX	4	BR #11
4.787	18"	RCP	5	
5.198	24"	RCP	10	
5.291	24"	RCP	10	
5.425	-	-	-	
5.738	-	-	5	
5.831	12"	RCP	9	
5.902	18"	RCP	8	
5.978	15"	CMP	-	
6.134	18"	CMP	4	
6.188	48"	CMP	4.5	
6.295	24"	CMP	5	
6.386	18"	CMP	2	
6.508	18"	CMP	3.5	
6.609	48"	CMP	1.5	
6.754	24"	CMP	2	

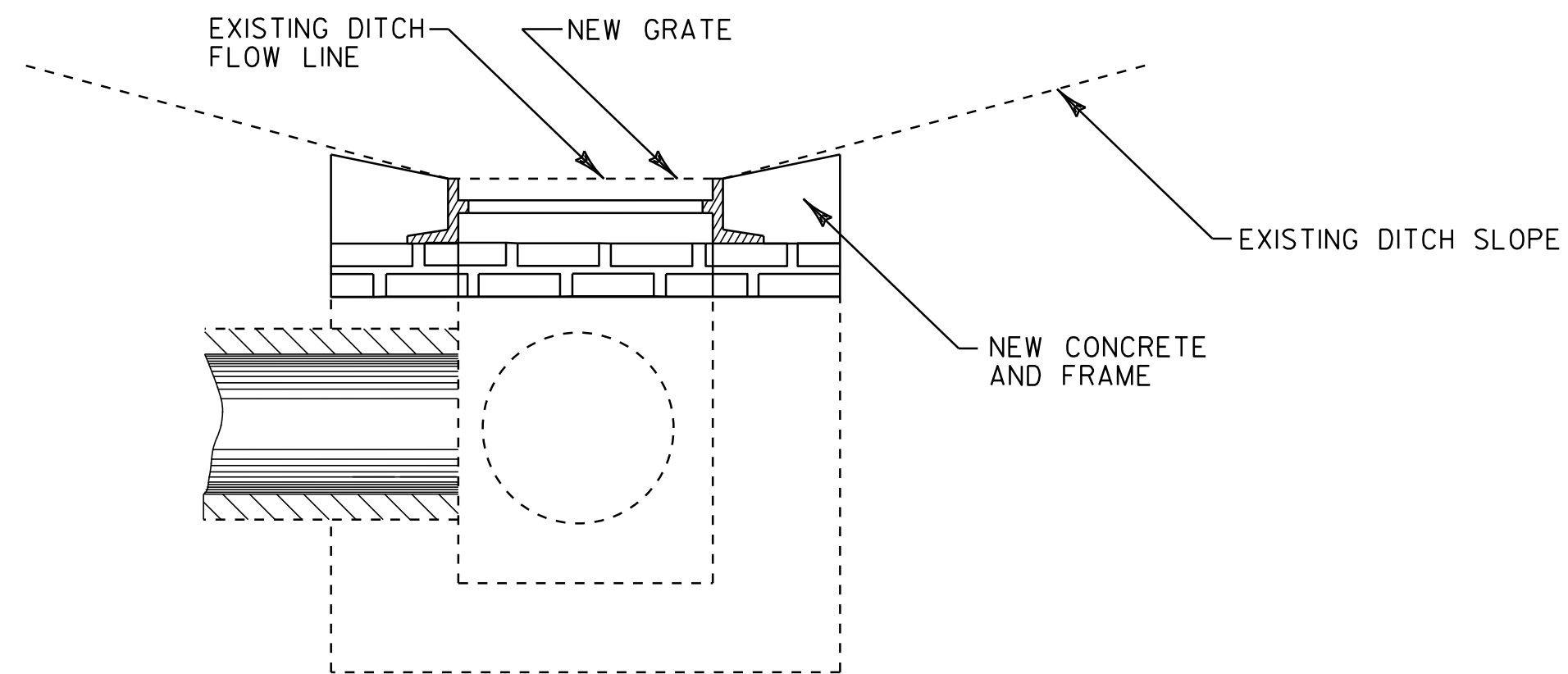
STATION (MM)	CULVERT SIZE	CULVERT MATERIAL	APPROX. DEPTH (FT)	COMMENT
SHELDON (CONT.)				
6.878	24"	CMP	3.5	
7.061	48"	PCCSP	6	BR #11A
7.173	36"	CMP	-	
7.232	10'x8'	REINF. CONC. BOX	-	BR #12
7.459	24"	CMP	6	
7.699	18"	CMP	4	
8.227	18"	CMP	6	
8.309	48"	RCP	2.5	BR #12A
8.418	36"	CMP	6.5	
8.782	12"	CMP	-	
8.860	72"	ACCGMP	4.5	BR #13
8.991	18"	CMP	4	
9.174	12'x5.5'	CONC. SLAB	2.5	BR #14
9.281	18"	CMP	4	
9.473	30"	CMP	2.5	
9.509	12"	CMP	5	
9.527	15"	CMP	6	
9.664	-	-	5	
9.759	18"	CMP	3.5	
9.944	15"	CMP	3.5	
10.044	6'x5'	CONC. BOX	3	BR #15
10.336	42"	CMP	5.5	
10.432	15"	CMP	3	
10.555	18"	CMP	2	
10.605	6'x7'	CONC. SLAB	5	BR #16
10.721	18"	RCP	2	
10.941	18"	CMP	4.5	
ENOSBURG				
0.044	18"	CMP	4.5	
0.083	18"	CPEP	3	
0.169	18"	RCP	4	
0.298	12'x12'	CONC. BOX	9	BR #17
0.430	-	-	-	

DRAINAGE STRUCTURE TABLE

MM	OFFSET	NO. OF STRUCTURES	DESCRIPTION
SHELDON			
2.596	LT	1	DI
2.597	RT	1	DI
2.952	LT	1	DI
4.977	LT	1	THROAT DI
5.029	LT	1	THROAT DI
7.114	RT	1	DI
7.168	RT	1	DI
7.181	RT	1	MH
8.783	LT	1	DI
ENOSBURG			
0.391	RT	1	DI
0.424	LT	1	DI



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 THE RESIDENT ENGINEER.

<p>CULVERT INVENTORY & STRUCTURE DETAIL SHEET</p>	PROJECT NAME: SHELDON-ENOSBURG	FILE NAME: p07b180.dgn	PLOT DATE: 07-NOV-2011 16:46
	PROJECT NUMBER: STP 2714(I)	PROJECT LEADER: JLL	DRAWN BY: STANTEC
	DESIGNED BY: STANTEC	CHECKED BY: JLL	
	IPARM FILE: p07b180csd.i	SHEET 29 OF 29	

