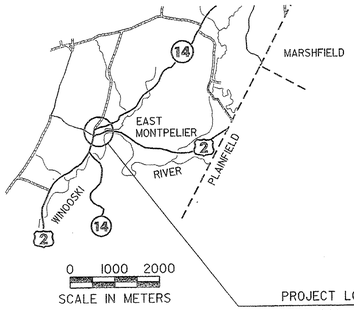
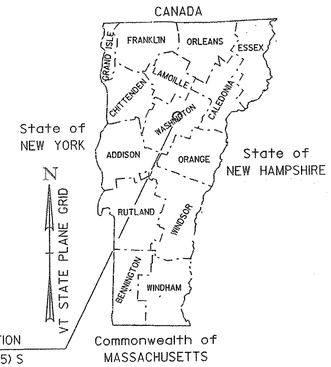
INDEX OF SHEETS
SEE SHEET 2

STATE OF VERMONT
AGENCY OF TRANSPORTATION





RECORD PLANS	
CONTRACTOR:	J. HUTCHINS, INC.– RICHMOND, VT
RESIDENT ENGINEER:	PETE HODGSON
CONSTRUCTION BEGAN:	AUGUST 10, 2010
CONSTRUCTION COMPLETE:	JULY 3, 2011
RECORD PLANS BY:	PETE HODGSON & JENNA HYDE

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

BY _____ RESIDENT ENGINEER

DATE 12/27/13

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.

PROPOSED IMPROVEMENT
TOWN OF EAST MONTPELIER
COUNTY OF WASHINGTON
US ROUTE 2 - PRINICPLE ARTERIAL
& VT ROUTE 14 - MINOR ARTERIAL

BEGINNING AT A POINT ON US ROUTE 2, APPROXIMATELY 4.720 KILOMETERS EAST OF THE BARRE/EAST MONTPELIER TOWN LINE AND EXTENDING EASTERLY 0.180 KILOMETERS. WORK SHALL ALSO INCLUDE THE RELOCATION OF VT ROUTE 14, BEGINNING AT STATION 4+800.00 ON US ROUTE 2 AND EXTENDING NORTHERLY 0.184 KILOMETERS.

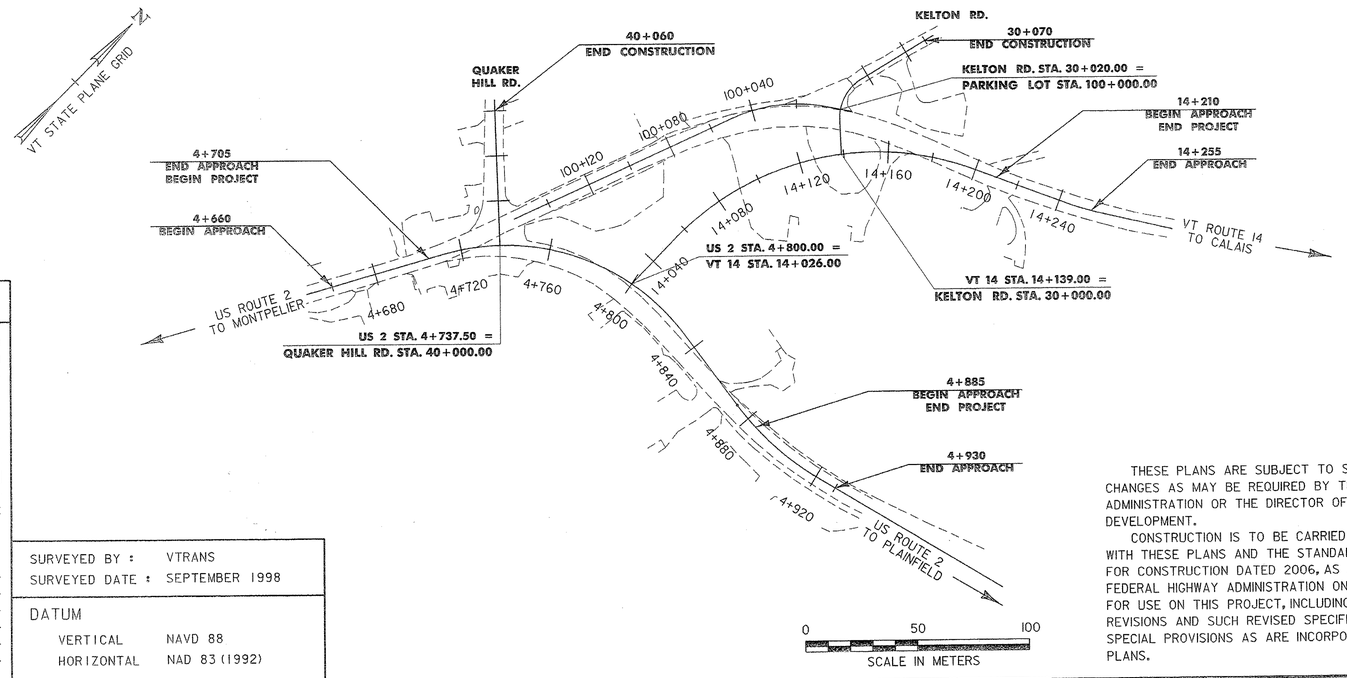
LENGTH OF ROADWAY, US ROUTE 2 =	0.180 KILOMETERS
LENGTH OF ROADWAY, VT ROUTE 14 =	0.184 KILOMETERS
LENGTH OF ROADWAY, QUAKER HILL ROAD =	0.060 KILOMETERS
LENGTH OF ROADWAY, KELTON ROAD =	0.070 KILOMETERS
TOTAL LENGTH OF ROADWAY =	0.494 KILOMETERS
TOTAL LENGTH OF PROJECT =	0.364 KILOMETERS

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES THE REALIGNMENT AND RECONSTRUCTION OF THE US ROUTE 2 AND VT ROUTE 14 INTERSECTION. ADDITIONAL WORK SHALL INCLUDE NEW DRAINAGE, SUBBASE, PAVEMENT, TRAFFIC CONTROL SIGNAL SYSTEM, PARKING AREA, PAVEMENT MARKINGS, AND MISCELLANEOUS ROADWAY ITEMS.

TRAFFIC DATA

LOCATION	ADT		DHV	ADTT	%T	%D	ESALS	ESALS	V
	2010	2030	2030	2030	2030	2030	(2010-2030)	(2010-2050)	
US ROUTE 2 EAST	6,800	8,300	930	830	7.5	62	3,508,000	8,177,000	60 KPH
US ROUTE 2 WEST	11,000	13,400	1,500	1,500	11.3	69	7,693,000	19,354,000	60 KPH
VT ROUTE 14	4,500	5,500	610	640	4.1	71	3,151,000	8,193,000	60 KPH

BITUMINOUS CONCRETE PAVEMENT SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE / DESIGN LIFE ESAL	7,693,000
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADE ASPHALT BINDER	SEE SECTION 490 GENERAL SPECIAL PROVISIONS



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 (SR SR SR)
TOP OF CUT
TOE OF SLOPE

SURVEYED BY :	VTRANS
SURVEYED DATE :	SEPTEMBER 1998

DATUM

VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (1992)

Metric

UNLESS NOTED OTHERWISE
STATIONS ARE IN KILOMETERS
ELEVATIONS ARE IN METERS
DIMENSIONS ARE IN MILLIMETERS

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

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

DIRECTOR OF PROJECT DEVELOPMENT
APPROVED Richard Tetreault DATE 3/23/10

PROJECT MANAGER : JOSHUA SCHULTZ

PROJECT NAME : EAST MONTPELIER
PROJECT NUMBER : STPG 028-3 (35) S

SHEET 1 OF 142 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

INDEX OF SHEETS

INDEX OF SHEETS

STANDARDS LIST

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028frm.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
INDEX OF SHEETS

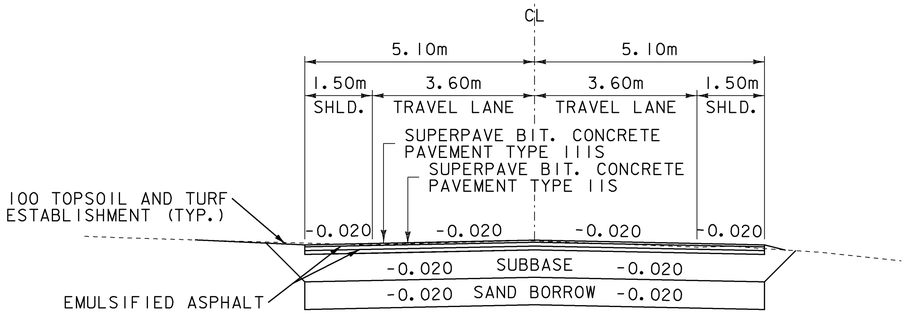
PLOT DATE: 16-APR-2010
DRAWN BY: I. DEGUTIS
CHECKED BY: J. DEVLIN

MATERIAL TOLERANCES		
PAVEMENT	(TOTAL DEPTH):	± 5
SUBBASE	(TOTAL DEPTH):	± 30
SAND BORROW	(TOTAL DEPTH):	± 30

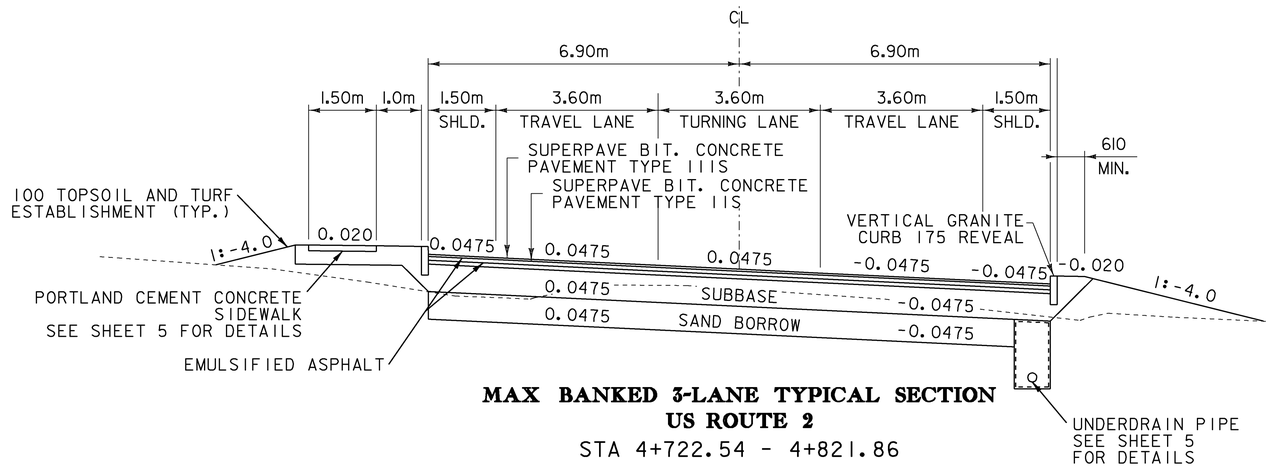
TYPICAL SECTIONS

NOT TO SCALE

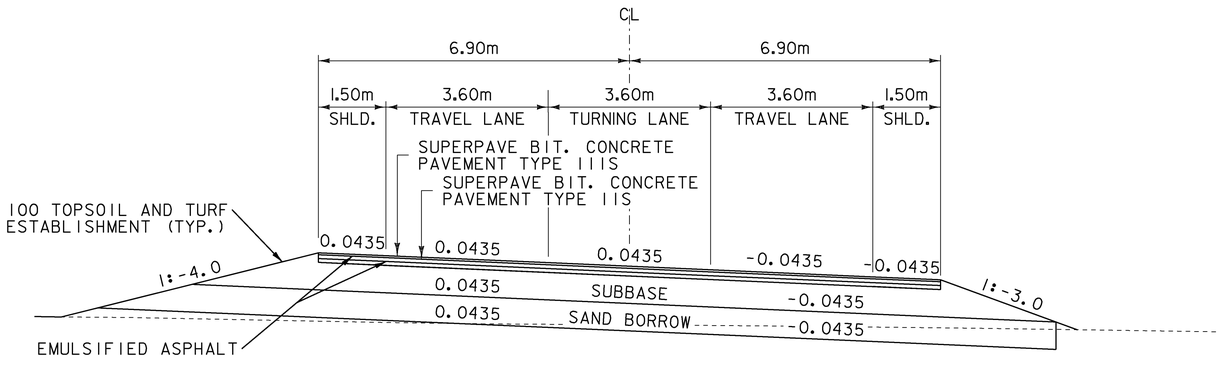
45 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIIS) - (1 - 45 LIFT)
170 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) - (2 - 85 LIFTS)
610 SUBBASE OF DENSE GRADED CRUSHED STONE
610 SAND BORROW



2-LANE TYPICAL SECTION
US ROUTE 2 AND VT ROUTE 14



MAX BANKED 3-LANE TYPICAL SECTION
US ROUTE 2
STA 4+722.54 - 4+821.86



MAX BANKED 3-LANE TYPICAL SECTION
VT ROUTE 14
STA 14+063.80 - 14+188.51

CLEAR ZONE TABLE	
APPROACH	DISTANCE (M)
US ROUTE 2 3-LANE TYPICAL SECTION	4.88*
US ROUTE 2 CURBED TYPICAL SECTION	0.45**
VT ROUTE 14 3-LANE TYPICAL SECTION	4.27*

* DISTANCE MEASURED FROM EDGE OF TRAVELED LANE
** DISTANCE MEASURED FROM THE FACE CURB

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028typ.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J.SCHULTZ	DRAWN BY: I. DEGUTIS
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
TYPICAL SHEET 1	SHEET 3 OF 142

MATERIAL TOLERANCES		
PAVEMENT	(TOTAL DEPTH):	± 5
SUBBASE	(TOTAL DEPTH):	± 30

PARKING LOT

PAVEMENT SAME AS KELTON ROAD

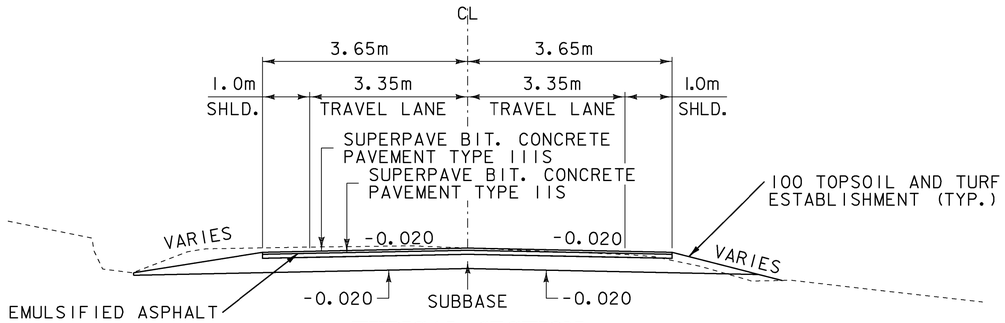
4S TYPE IIIS 1-LIFT

8S TYPE IIS 1-LIFT

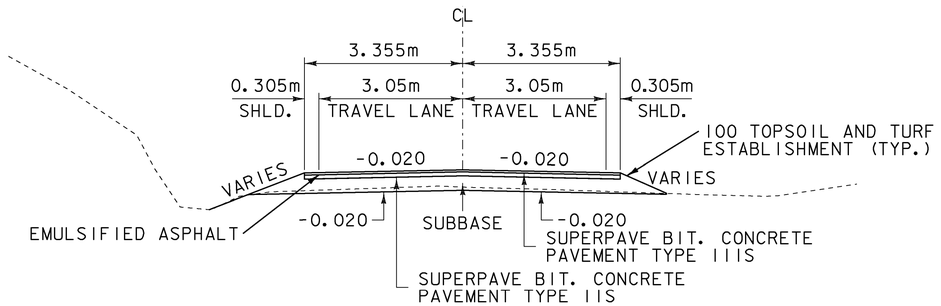
TYPICAL SECTIONS

NOT TO SCALE

45 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIIS) - (1 - 45 LIFT)
85 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) - (1 - 85 LIFT)
305 SUBBASE OF DENSE GRADED CRUSHED STONE



TYPICAL SECTION
QUAKER HILL ROAD
STA 40+006.00 - 40+045.00



TYPICAL SECTION
KELTON ROAD
STA 30+008.00 - 30+060.00

CLEAR ZONE TABLE	
APPROACH	DISTANCE (M)
QUAKER HILL ROAD 2-LANE TYPICAL SECTION	3.05*
KELTON ROAD 2-LANE TYPICAL SECTION	3.05*

* DISTANCE MEASURED FROM EDGE OF TRAVELED LANE

SEEDING FORMULA

SEE EPSC DETAILS SHEET 2 FOR THE SEEDING FORMULA.

GENERAL NOTES

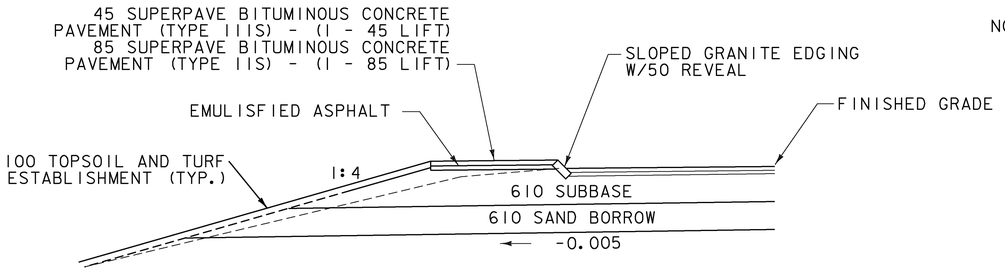
1. ALL MATERIALS AND CONSTRUCTION PRACTICES SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION'S 2006 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND IT'S LATEST REVISIONS.
2. TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.012 L/SM BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.
3. MARKER POSTS: TO BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER.
4. SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD B-5.
5. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANIES INVOLVED AND SHALL DIG TEST PITS AS REQUIRED TO VERIFY LOCATIONS. THE CONTRACTOR SHALL NOTIFY "DIG SAFE" PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL VERIFY LOCATION, ELEVATIONS AND DIMENSIONS OF THE EXISTING WATER LINES PRIOR TO CONSTRUCTION. THERE WILL BE NO EXTRA COMPENSATION PAID TO THE CONTRACTOR FOR ANY INCONVENIENCE CAUSED BY WORKING AROUND AND WITH THE UTILITY COMPANIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL ARRANGEMENTS FOR ANCHORING, SUPPORTING AND/OR RELOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL COSTS SHALL BE INCLUDED IN THE UNIT PRICES BID. IN THE CASE OF DAMAGE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL REPAIRS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF THE EXISTING FEATURES AND STRUCTURES WITHIN AND ADJACENT TO THE WORK. IN THE CASE OF DAMAGE, THE REPAIRS OR REPLACEMENT SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE AS APPROVED BY THE ENGINEER.
8. ALL WORK MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS AND IN THE CASE THERE ARE CONFLICTING REGULATIONS THE MORE CONSERVATIVE OR STRICTER REGULATION WILL TAKE PRECEDENCE.
9. ANY DISCREPENCIES BETWEEN THESE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
10. THESE CONTRACT DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION AND COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SITE SAFETY SHALL SOLELY BE THE CONTRACTOR'S RESPONSIBILITY.
11. FOR ITEM 301.35 - SUBBASE OF DENSE GRADED CRUSHED STONE WHEN IN EXCESS OF 950 CM, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MAXIMUM DRY DENSITY OF THE SUBBASE MATERIAL IN ACCORDANCE WITH VTRANS SPECIFICATION AOT-MRD 54.
12. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ANY EXISTING STRUCTURES OR PIPES, WHICH CONNECT TO PIPES THAT ARE SPECIFIED TO BE PLUGGED, FILLED OR ABANDONED. IN THE EVENT THAT ADJOINING STRUCTURES OR PIPES ARE FOUND IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S

FILE NAME: t98b028typ.dgn	PLOT DATE: 29-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: I. DEGUTIS
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
TYPICAL SHEET 2	SHEET 4 OF 142

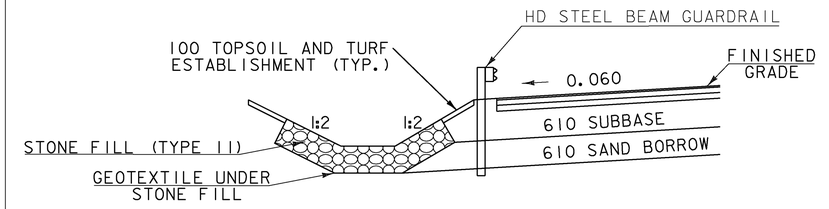
TYPICAL SECTION DETAILS

NOT TO SCALE



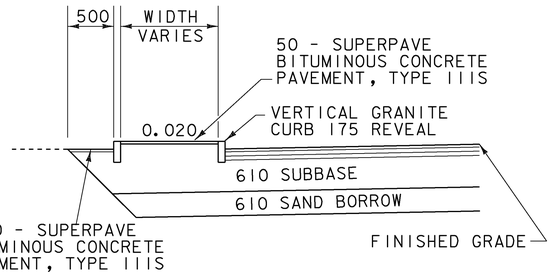
APRON WITH MOUNTABLE CURB DETAIL

4+780.1 LT - 14+037.5 LT



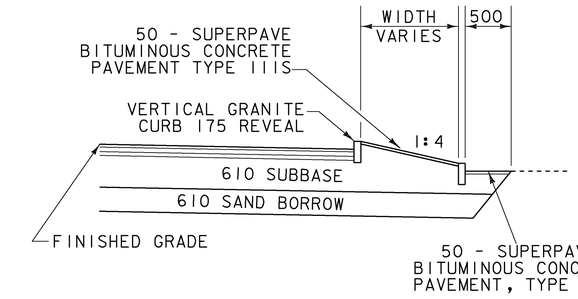
GUARDRAIL - DITCH SECTION DETAIL US ROUTE 2

STA 4+932.00 LT - 4+985.32 LT



ISLAND - PAVED LT

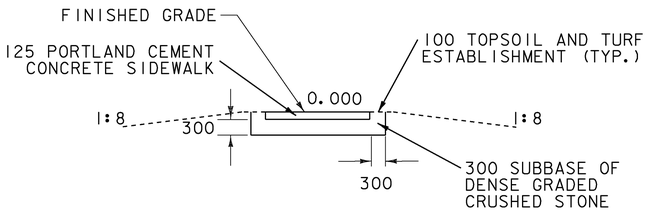
4+709.00 LT - 40+015.38 LT



ISLAND - PAVED RT

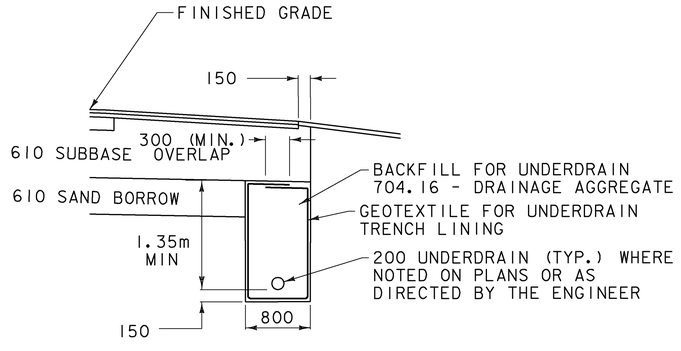
4+704.72 RT - 4+717.10 RT

4+731.70 RT - 4+752.80 RT

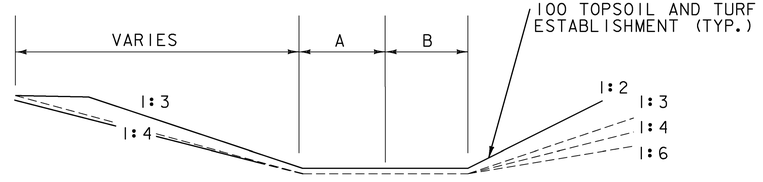


SIDEWALK IN LAWN AREA

100+082.37 RT - 100+156.58 RT



UNDERDRAIN DETAIL



		A	B	STATION
GRASS CHANNEL	I-A	1220	1220	14+150 RT - 14+205 RT
GRASS CHANNEL	I-B	915	915	14+045 LT - 14+091 LT
GRASS CHANNEL	I-C	1220	1220	14+040 RT - 14+071 RT

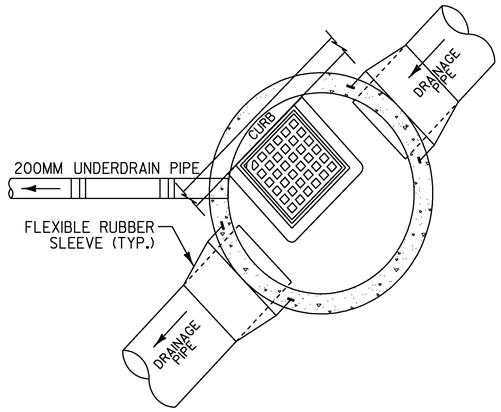
GRASS CHANNEL VT ROUTE 14

FOR TURF ESTABLISHMENT DETAILS SEE EPSC DETAILS SHEET 2

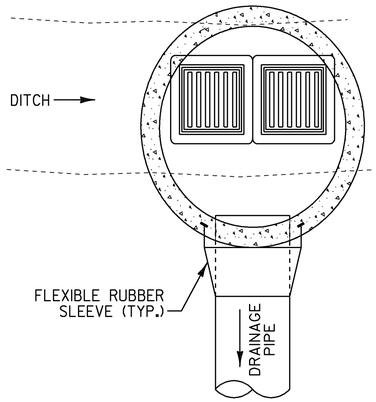
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028typ.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TYPICAL SHEET 3

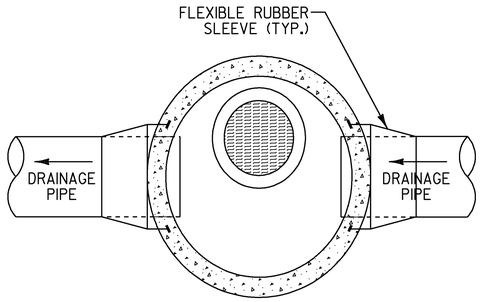
PLOT DATE: 22-MAR-2010
DRAWN BY: I. DEGUTIS
CHECKED BY: J. DEVLIN
SHEET 5 OF 142



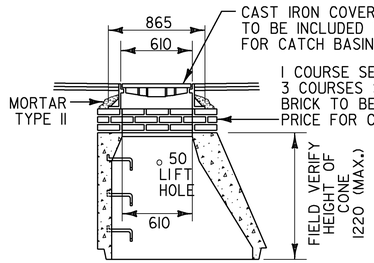
CATCH BASIN (PLAN) WITH UNDERDRAIN
NOT TO SCALE



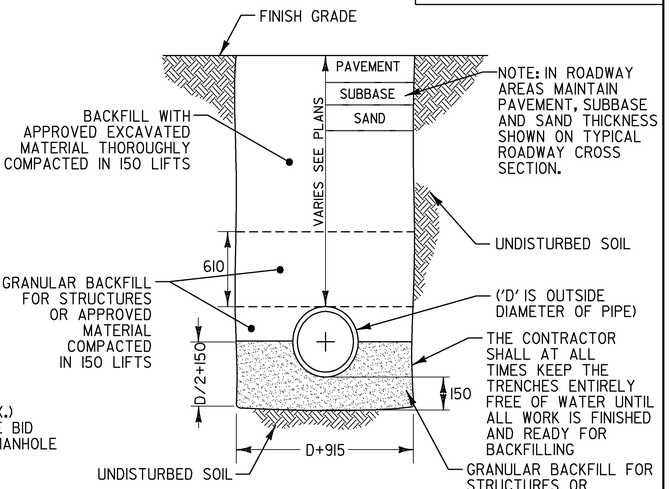
DOUBLE GRATE CATCH BASIN (PLAN)
NOT TO SCALE



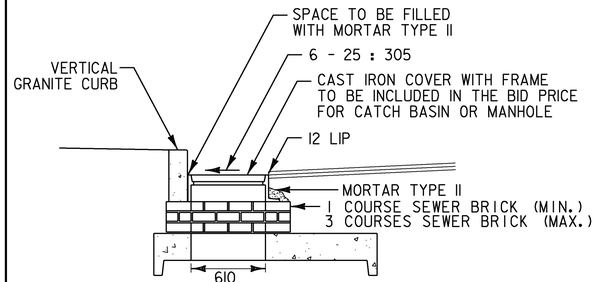
MANHOLE (PLAN)
NOT TO SCALE



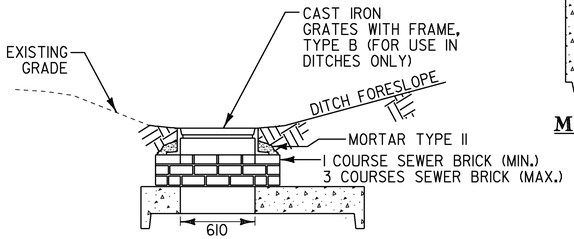
MANHOLE CONE SECTION
NOT TO SCALE



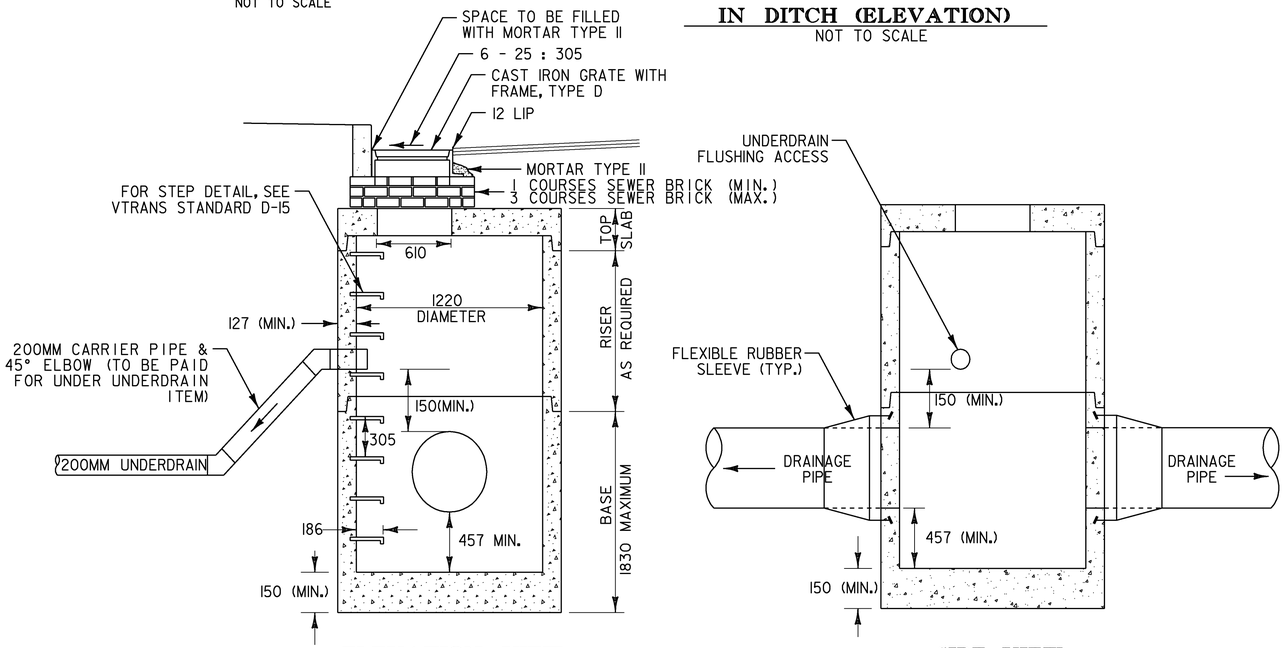
TYPICAL STORM DRAIN AND PIPE SLEEVE TRENCH
NOT TO SCALE



TYPICAL GRATE INSTALLATION WITH VERTICAL GRANITE CURB (ELEVATION)
NOT TO SCALE



TYPICAL GRATE INSTALLATION IN DITCH (ELEVATION)
NOT TO SCALE



ELEVATION VIEW **SIDE VIEW**

TYPICAL PRECAST CATCH BASIN OR MANHOLE WITH UNDERDRAIN FLUSHING ACCESS
NOT TO SCALE

PRECAST REINFORCED CONCRETE CATCH BASIN NOTES:

1. PRECAST CONCRETE SECTIONS SHALL CONFORM TO SECTION 705.04 OF THE STANDARD SPECIFICATIONS.
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH: 4,000 PSI AT 28-DAYS
3. STEEL REINFORCING SHALL CONFORM TO SECTION 713.01 OF THE STANDARD SPECIFICATIONS.
4. MANHOLE STEPS SHALL BE 356 WIDE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC CONFORMING TO SECTION 705.04 OF THE STANDARD SPECIFICATIONS AND SHALL BE CAST INTO MANHOLE SECTIONS BY THE PRECAST CONCRETE MANUFACTURER.
5. FACE OF PIPE SHALL NOT PROJECT MORE THAN 50 OR LESS THAN 25 FROM INSIDE WALL OF STRUCTURE.
6. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 305 OF OUTSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZONTAL CROSS-SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 75 TO JOINTS.
7. FITTING FRAME TO FINAL GRADE MAY BE DONE WITH BRICK OR PRECAST CONCRETE GRADE RINGS OF APPROPRIATE THICKNESS (3 COURSES MAX).
8. FLAT SLAB TOPS SHALL BE USED FOR ALL CATCH BASINS UNLESS OTHERWISE PERMITTED BY THE ENGINEER.
9. ALL PIPE INVERTS AND PENETRATION ANGLES SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.
10. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT AND BE ASSEMBLED USING A BUTYL RUBBER OR APPROVED EQUAL SEALANT.
11. PROVIDE FLEXIBLE RUBBER SLEEVES CONFORMING TO ASTM C-923, RESILIENT, OF SIZE REQUIRED, FOR EACH PIPE CONNECTING TO STRUCTURE. SLEEVES SHALL BE CAST INTO PRECAST STRUCTURE BY THE MANUFACTURER FOR ALL PIPE PENETRATIONS.
12. PAYMENT FOR INSTALLATION OF THE CATCH BASINS SHALL BE MADE UNDER THE PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE ITEM (604.20).

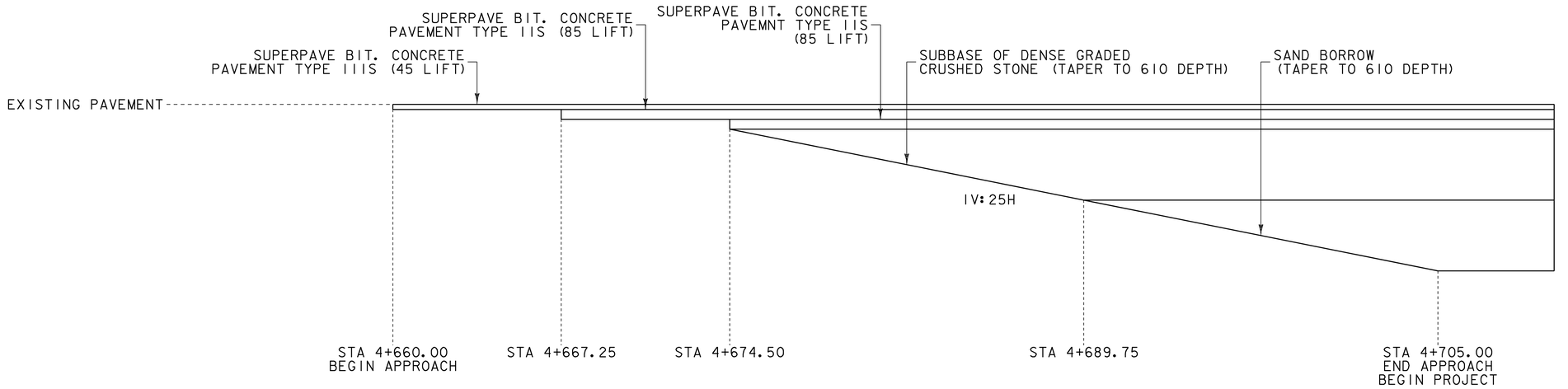
PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028typ.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
DRAINAGE STRUCTURE DETAIL SHEET	SHEET 6 OF 142

MATERIAL TOLERANCES		
PAVEMENT	(TOTAL DEPTH):	± 5
SUBBASE	(TOTAL DEPTH):	± 30
SAND BORROW	(TOTAL DEPTH):	± 30

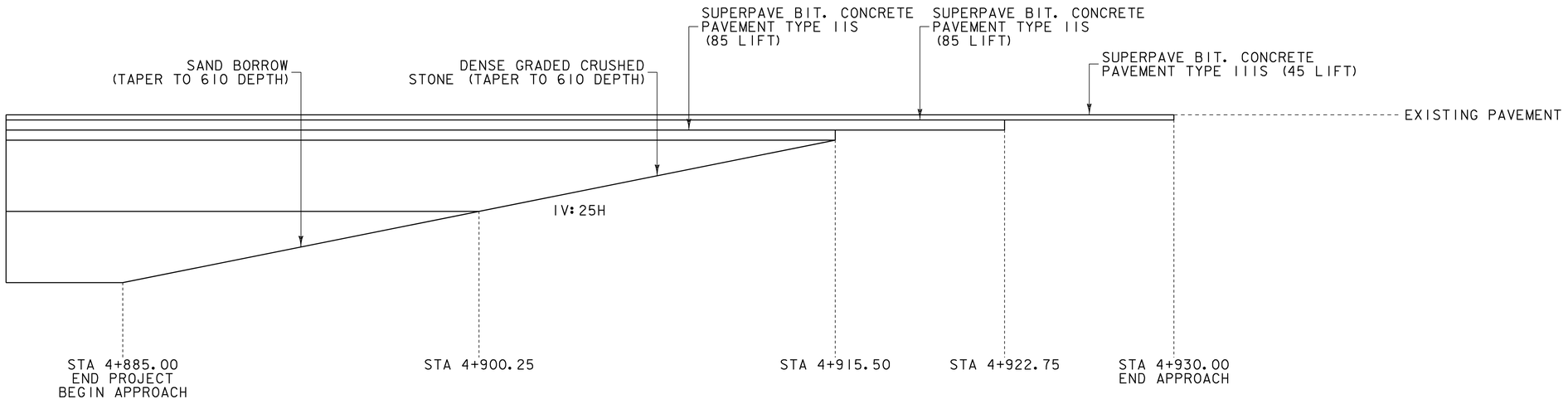
TYPICAL SECTIONS

NOT TO SCALE

45 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIIS) - (1 - 45 LIFT)
170 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) - (2 - 85 LIFTS)
610 SUBBASE OF DENSE GRADED CRUSHED STONE
610 SAND BORROW



US ROUTE 2
BEGIN PROJECT MATERIAL TRANSITION DETAIL



US ROUTE 2
END PROJECT MATERIAL TRANSITION DETAIL

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S

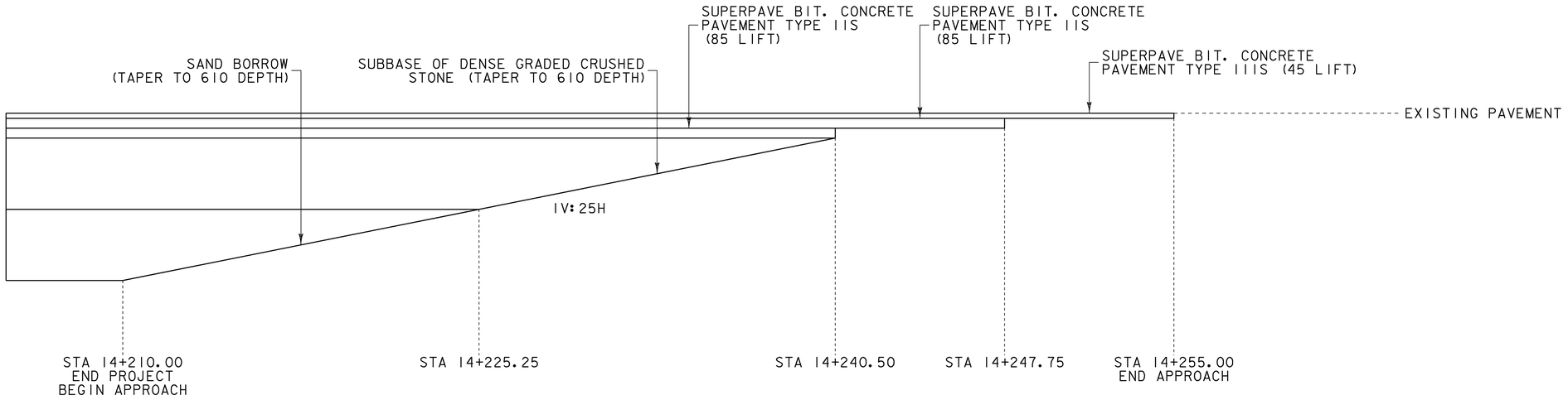
FILE NAME: t98b028typ.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: I. DEGUTIS
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
MATERIAL TRANSITION SHEET 1	SHEET 7 OF 142

MATERIAL TOLERANCES		
PAVEMENT	(TOTAL DEPTH):	± 5
SUBBASE	(TOTAL DEPTH):	± 30
SAND BORROW	(TOTAL DEPTH):	± 30

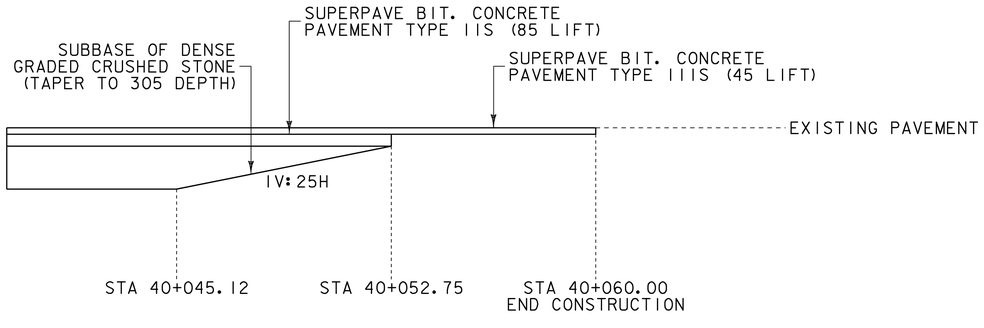
TYPICAL SECTIONS

NOT TO SCALE

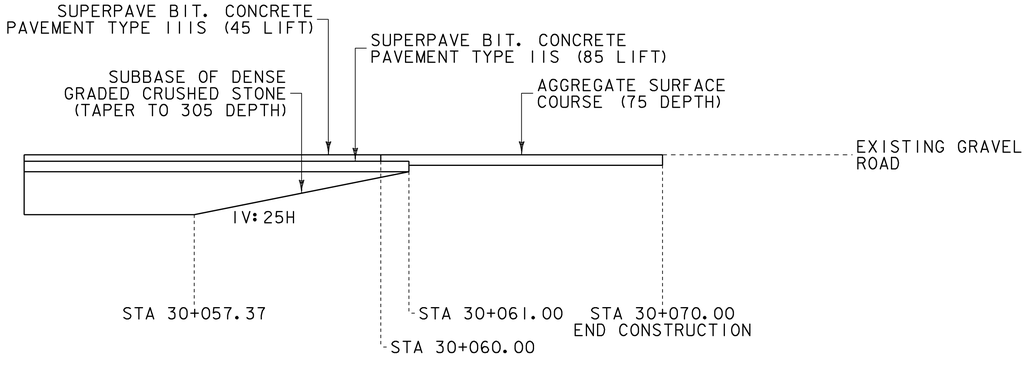
45 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIIS) - (1 - 45 LIFT)
170 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIS) - (2 - 85 LIFTS)
610 SUBBASE OF DENSE GRADED CRUSHED STONE
610 SAND BORROW



VT ROUTE 14
END PROJECT MATERIAL TRANSITION DETAIL



QUAKER HILL ROAD
END PROJECT MATERIAL TRANSITION DETAIL



KELTON ROAD
END PROJECT MATERIAL TRANSITION DETAIL

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028typ.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: I. DEGUTIS
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
MATERIAL TRANSITION SHEET 2	SHEET 8 OF 142

VAOT Metric

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES									TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
				ROADWAY	TRAINING	LANDSCAPING	EROSION CONTROL	UTILITIES - BID ITEMS (NO FEDERAL/STATE PARTICIPATION)	FULL CE ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
				1						1	1	LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	-			203.15 COMMON EXCAVATION
				1						1	1	EACH	DEMOLITION AND DISPOSAL OF BUILDING	202.10	-	3746	CM	US ROUTE 2
				7000						7000	7287.29	CM	COMMON EXCAVATION	203.15	122	2369	CM	VT ROUTE 14
				415						415	334.2	CM	SOLID ROCK EXCAVATION	203.16	7	249	CM	QUAKER HILL ROAD
				22						22	303.562	CM	EXCAVATION OF SURFACES AND PAVEMENTS	203.28	1	81	CM	KELTON ROAD
				3675						3675	3801.5	CM	SAND BORROW	203.31	54	208	CM	PARKING LOT
				2650						2650	2224.93	CM	TRENCH EXCAVATION OF EARTH	204.20	53	225	CM	DRIVES
				20						20	15.04	CM	TRENCH EXCAVATION OF ROCK	204.21	1	6878	CM	SUB TOTAL
				1						1	0	CM	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-	122	CM	ROUNDING
				500						500	1004.08	CM	GRANULAR BACKFILL FOR STRUCTURES	204.30	12	7000	CM	TOTAL
				500						500	1980.6	SM	COLD PLANING, BITUMINOUS PAVEMENT	210.10	36			
										0	129.92	SM	COLD PLANING, BITUMINOUS SA/CO #9 6-24-11					203.31 SAND BORROW
				5000						5000	5598.68	CM	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	148			
				28						28	10.75	CM	AGGREGATE SURFACE COURSE	401.10	1.4	1563	CM	US ROUTE 2
				1740						1740	2432.8	KG	EMULSIFIED ASPHALT	404.65	30	2058	CM	VT ROUTE 14
				1						1	1093.05	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-	3621	CM	SUB TOTAL
				4000						4000	3689.21	T	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	119	54	CM	ROUNDING
										0	78.95	T	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SA/CO #9 6-24-11			3675	CM	TOTAL
				1						1	5497.85	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-			
				1						1	772.92	LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-			301.35 SUBBASE OF DENSE GRADED CRUSHED STONE
				370						370	363	KG	REINFORCING STEEL	507.15	7	1916	CM	US ROUTE 2
				5						5	4.3	CM	CONCRETE, CLASS B	541.25	0.7	1985	CM	VT ROUTE 14
													BEGIN OPTION AA			160	CM	QUAKER HILL ROAD
																115	CM	KELTON ROAD
																472	CM	PARKING LOT
																204	CM	DRIVES
																4852	CM	SUB TOTAL
				23						23	33.7	M	375 CPEP(SL)	601.2610	-	148	CM	ROUNDING
																5000	CM	TOTAL
				23						23	--	M	375 RCP CLASS III	601.0810	-			
																		401.10 AGGREGATE SURFACE COURSE
													END OPTION AA					
																4.2	CM	KELTON ROAD
													BEGIN OPTION BB			22.4	CM	DRIVES
				250						250	240	M	450 CPEP(SL)	601.2615	-	26.6	CM	SUB TOTAL
																1.4	CM	ROUNDING
				250						250	--	M	450 RCP CLASS III	601.0815	-	28.0	CM	TOTAL
													END OPTION BB					
																		490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT
													BEGIN OPTION CC					
																388	TON	US ROUTE 2, TYPE III S, WEARING COURSE
				120						120	118.3	M	600 CPEP(SL)	601.2620	-	1318	TON	US ROUTE 2, TYPE II S, BASE COURSE
				120						120	--	M	600 RCP CLASS III	601.0825	-	333	TON	VT ROUTE 14, TYPE III S, WEARING COURSE
																1191	TON	VT ROUTE 14, TYPE II S, BASE COURSE
													END OPTION CC					
																57	TON	QUAKER HILL ROAD, TYPE III S, WEARING COURSE
													BEGIN OPTION DD			95	TON	QUAKER HILL ROAD, TYPE II S, BASE COURSE
				109						109	107	M	900 CPEP(SL)	601.2630	-	43	TON	KELTON ROAD, TYPE III S, WEARING COURSE
																81	TON	KELTON ROAD, TYPE II S, BASE COURSE
				109						109	--	M	900 RCP CLASS III	601.0845	-			
																130	TON	PARKING LOT, TYPE III S, WEARING COURSE
													END OPTION DD			245	TON	PARKING LOT, TYPE II S, BASE COURSE
				9.1						9.1	9.1	M	900 CPEP	601.0930	-	3881	TON	SUB TOTAL
																119	TON	ROUNDING
				13						13	14	EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (1200MM)	604.20	-	4000	TON	TOTAL
				2						2	2	EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (1500MM)	604.20	-			
				5						5	5	EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE (1800MM)	604.20	-			
										0	2	EACH	REHAB DI, CATCH BASIN, MANHOLES, CLASS II SA/CO #13 9-19-11	604.415				

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028frm.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
QUANTITY SHEET 1

PLOT DATE: 29-MAR-2010
DRAWN BY: I. DEGUTIS
CHECKED BY: J. DEVLIN
SHEET 9 OF 142

Metric

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES									TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
				ROADWAY	TRAINING	LANDSCAPING	EROSION CONTROL	UTILITIES ◻ BID ITEMS (NO FEDERAL/STA	FULL CE ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
				160						160	127	M	200 MM UNDERDRAIN PIPE	605.11	3			
				7						7	6	M	200 MM UNDERDRAIN CARRIER PIPE	605.21	1			
				1						1	1	EACH	UNDERDRAIN FLUSHING BASIN	605.95	-			
				1000						1000	43.1	CM	DUST CONTROL WITH WATER	609.10	6			
				0.7						0.7	0	T	DUST AND ICE CONTROL WITH CALCIUM CHLORIDE	609.15	0.1			
				70						70	394.302	CM	STONE FILL, TYPE II	613.11	2			
				17						17	15.6	M	GRANITE SLOPE EDGING	616.20	1			
				440						440	440.9	M	VERTICAL GRANITE CURB	616.21	7			
				285						285	281.01	SM	PORTLAND CEMENT CONCRETE SIDEWALK, 125 MM	618.10	4			
				6.5						6.5	5.18	SM	DETECTABLE WARNING SURFACE	618.30	0.2			
				6						6	0	M	REMOVAL OF EXISTING FENCE	620.55	0.5			
				40						40	41.9	M	HD STEEL BEAM GUARDRAIL, GALVANIZED	621.21	2			
				1						1	1	EACH	MANUFACTURED TERMINAL SECTION, TANGENT	621.51	-			
				7						7	6	EACH	ENERGY ABSORPTION ATTENUATOR	621.56	-			
				8						8	12	M	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	0.4			
				220						220	190.2	M	TEMPORARY TRAFFIC BARRIER	621.90	12.8			
				240						240	2009.34	M	REMOVE AND RESET TEMPORARY TRAFFIC BARRIER	621.95	8.8			
				16.5	13.9			25.5	21.3	42	35.2	M	SLEEVES FOR UTILITIES (1 X 600MM)	625.10	2.4			
				6						6	7	EACH	ADJUST ELEVATION OF VALVE BOX	629.20	-			
				800						800	812	HR	UNIFORMED TRAFFIC OFFICERS	630.10	73			
				2400						2400	3478	HR	FLAGGERS	630.15	133			
									1	1	1	LS	FIELD OFFICE, ENGINEERS	631.10	-			
									1	1	1	LS	TESTING EQUIPMENT, CONCRETE	631.16	-			
									1	1	1	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-			
									3000	3000	1577.32	DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	-			
					520					520	520	HR	EMPLOYEE TRAINEESHIP	634.10	-			
										0	1	LS	MOBILIZATION/DEMOBILIZATION SA/CO #9 6-24-11	635.11				
				1						1	1	LS	MOBILIZATION/DEMOBILIZATION	635.11	-			
										0	1	LS	MOBILIZATION/DEMOBILIZATION SA/CO #11 9-19-11	635.11				
				1						1	1	LS	TRAFFIC CONTROL	641.10	-			
										0	1	LS	TRAFFIC CONTROL SA/CO #14 7-6-12	641.10				
				3						3	3	EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-			
				165						165	163.1	M	DURABLE 100 MM WHITE LINE, POLYUREA Δ	646.404	3			
				1225						1225	1434.2	M	DURABLE 100 MM WHITE LINE, RECESSED POLYUREA	646.406	22			
				1530						1530	1705	M	DURABLE 100 MM YELLOW LINE, RECESSED POLYUREA	646.416	27			
				270						270	242	M	DURABLE 200 MM YELLOW LINE, RECESSED POLYUREA	646.456	5			
				33						33	34	M	DURABLE 600 MM STOP BAR, TYPE I TAPE Δ	646.481	0.5			
				71						71	79	EACH	DURABLE LETTER OR SYMBOL, TYPE I TAPE Δ	646.491	-			
				32						32	31.5	M	DURABLE CROSSWALK MARKING, TYPE I TAPE Δ	646.501	0.8			
				2450						2450	1898	M	TEMPORARY 100 MM WHITE LINE	646.600	43			
				3050						3050	3742.8	M	TEMPORARY 100 MM YELLOW LINE	646.610	44			
				66						66	90.7	M	TEMPORARY 600 MM STOP BAR	646.680	1			
				142						142	87	EACH	TEMPORARY LETTER OR SYMBOL	646.690	-			
										0	31.3	M	TEMPORARY CROSSWALK SA/CO #5 5-5-11	646.70				

Δ REVISED ITEM - 5/10/10

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028frm.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
QUANTITY SHEET 2

PLOT DATE: 11-MAY-2010
DRAWN BY: I. DEGUTIS
CHECKED BY: J. DEVLIN
SHEET 10 OF 142

VAOT Metric

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 3

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
				ROADWAY	TRAINING	LANDSCAPING	EROSION CONTROL	UTILITIES - BID ITEMS (NO FEDERALISTATE PARTICIPATION)	FULL CE ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
				13						13	0	SM	REMOVAL OF EXISTING PAVEMENT MARKINGS	646.85	0.7			
				170						170	939.2	SM	GEOTEXTILE UNDER STONE FILL	649.31	5			
							30			30	43.6	SM	GEOTEXTILE FOR SILT FENCE	649.51	1			
						45				45	76.985	KG	SEED	651.15	1			
						3				3	0	KG	SEED, WINTER RYE	651.17	-			
						360				360	557.73	KG	FERTILIZER	651.18	5			
						3				3	4.177	T	AGRICULTURAL LIMESTONE	651.20	0.1			
						3				3	4.049	T	HAYMULCH	651.25	0.1			
						640				640	973.57	CM	TOPSOIL	651.35	6			
							1			1	1	LS	EPSC PLAN	652.10	-			
							65			65	33	HR	MONITORING EPSC PLAN	652.20	-			
							1			1	1.166	LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	652.30	-			
							1730			1730	3953.41	SM	TEMPORARY EROSION MATTING	653.20	18			
							7			7	2.45	CM	TEMPORARY STONE CHECK DAM, TYPE I	653.25	0.6			
							20			20	19	EACH	INLET PROTECTION DEVICE, TYPE I	653.40	-			
						12				12	15	EACH	EVERGREEN TREES (PICEA GLAUCA)(B&B)(2.1-2.4M HT)	656.20	-			
						3				3	3	EACH	DECIDUOUS TREES (ACER FREMANII X AUTUMN BLAZE) (B&B)(0.050 - 0.065 M CAL.)	656.30	-			
						3				3	3	EACH	DECIDUOUS TREES (AMELANCHIER "AUTUMN BRILLIANCE") (B&B)(0.045 - 0.050 M CAL.)	656.30	-			
						7				7	7	EACH	DECIDUOUS TREES (BELTA NIGRA "HERITAGE") (B&B)(0.050 - 0.065 M CAL.)	656.30	-			
						3				3	3	EACH	DECIDUOUS TREES (FRAXINUS PENNSYLVANICA "SUMMIT") (B&B)(0.050 - 0.065 M CAL.)	656.30	-			
						2				2	2	EACH	DECIDUOUS TREES (GLEDITSIA TRIACANTHOS INERMIS "SHADEMASTER") (B&B)(0.050 - 0.065 M CAL.)	656.30	-			
						2				2	2	EACH	DECIDUOUS TREES (MAGNOLIA X LOEBNERI "~~LEONARD MESSEL~~" MERRILL (OR BALLERINA)) (B&B)(0.045 - 0.050 M CAL.)	656.30	-			
						2				2	2	EACH	DECIDUOUS TREES (MALUS "ADAMS") (B&B)(0.045 - 0.050 M CAL.)	656.30	-			
						2				2	3	EACH	DECIDUOUS TREES (MALUS "DONALD WYMAN") (B&B)(0.045 - 0.050 M CAL.)	656.30	-			
						2				2	4	EACH	DECIDUOUS TREES (MALUS "HARVEST GOLD") (B&B)(0.045 - 0.050 M CAL.)	656.30	-			
						1				1	1	EACH	DECIDUOUS TREES (MALUS "PRAIRIE FIRE") (B&B)(0.045 - 0.050 M CAL.)	656.30	-			
						3				3	3	EACH	DECIDUOUS TREES (MALUS "SUGAR TYME") (B&B)(0.045 - 0.050 M CAL.)	656.30	-			
						1				1	1	EACH	DECIDUOUS TREES (QUERCUS MACROCARPA) (B&B)(0.050 - 0.065 M CAL.)	656.30	-			
						6				6	6	EACH	DECIDUOUS TREES (QUERCUS RUBRA) (B&B)(0.050 - 0.065 M CAL.)	656.30	-			
						7				7	7	EACH	DECIDUOUS TREES (SYRINGA RETICULATA "IVORY SILK") (B&B)(0.045 - 0.050 M CAL.)	656.30	-			
						1				1	1	EACH	DECIDUOUS TREES (TILIA CORDATA "GREENSPIRE") (B&B)(0.050 - 0.065 M CAL.)	656.30	-			
						8				8	8	EACH	DECIDUOUS TREES (ULMUS AMERICANA "PRINCETON") (B&B)(0.050 - 0.065 M CAL.)	656.30	-			

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028frm.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
QUANTITY SHEET 3

PLOT DATE: 29-MAR-2010
DRAWN BY: I. DEGUTIS
CHECKED BY: J. DEVLIN
SHEET 11 OF 142

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 4

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
					ROADWAY	TRAINING	LANDSCAPING	EROSION CONTROL	FULL CE ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
							3			3	3	EACH	DECIDUOUS TREES (ULMUS AMERICANA "VALLEY FORGE") (B&B)(0.050 - 0.065 M CAL.)	656.30	-			
							10			10	10	EACH	DECIDUOUS SHRUBS (CLETHRA ALNIFOLIA "HUMMINGBIRD") (CONT.)(0.45 M HT)	656.35	-			
							12			12	12	EACH	DECIDUOUS SHRUBS (CLETHRA ALNIFOLIA "RUBY SPICE") (CONT.)(0.60 M HT)	656.35	-			
							16			16	16	EACH	DECIDUOUS SHRUBS (HYDRANGEA ARBORESCENS "ANNABELLE") (CONT.)(0.60 M HT)	656.35	-			
							14			14	14	EACH	DECIDUOUS SHRUBS (ILEX VERTICILATA "AFTERGLOW") (CONT.)(0.90 M HT)	656.35	-			
							4			4	4	EACH	DECIDUOUS SHRUBS (ILEX VERTICILATA "JIM DANDY") (CONT.)(0.90 M HT)	656.35	-			
							18			18	18	EACH	DECIDUOUS SHRUBS (SPIREA X "GOLD MOUND") (CONT.)(0.45 M HT)	656.35	-			
							12			12	24	EACH	DECIDUOUS SHRUBS (SPIREA X BULMALDA "GOLD FLAME") (CONT.)(0.60 M HT)	656.35	-			
							3			3	3	EACH	DECIDUOUS SHRUBS (SYRINGA VULGARIS) (CONT.)(0.90 M HT)	656.35	-			
							625			625	15.52	CM	LANDSCAPE WATERING	656.65	8.5			
							~~9~~125			~~9~~125	66.19	CM	LANDSCAPE BACKFILL, TRUCK MEASUREMENT	656.80	0.6			SEE MEMO DATED 4-25-11 FOR REVISED QUANTITY
							1			1	1	LS	TREE PROTECTION	656.85	-			
					19.5					19.5	20.13	SM	TRAFFIC SIGNS, TYPE A	675.20	0.6			
					140					140	147.59	M	SQUARE TUBE SIGN POST AND ANCHOR	675.341	2.7			
					68					68	58	EACH	REMOVING SIGNS	675.50	-			
					21					21	28	EACH	ERECTING SALVAGED SIGNS	675.60	-			
					14					14	12	EACH	SETTING SALVAGED POSTS	675.61	-			
					1					1	1	EACH	TRAFFIC CONTROL SIGNAL SYSTEM, INTERSECTION	678.15	-			
					315					315	297.1	M	WIRED CONDUIT (50 MM)(PVC)(SCH 80)	678.23	9.1			
					7					7	7	EACH	PULL BOX, STANDARD	678.25	-			
					67					67	667	M	ELECTRICAL CONDUIT SLEEVE (200MM)(PVC)(SCH 80)	678.30	1			
					4					4	4	EACH	LIGHT POLE BASE	679.21	-			
					4					4	4	EACH	BREAKAWAY FEATURE FOR LIGHT POLE	679.23	-			
					4					4	4	EACH	LIGHT POLE	679.45	-			
					1					1	1	EACH	BRACKET ARM	679.47	-			
					5					5	5	EACH	LUMINAIRE	679.50	-			
					1					1	1	EACH	POWER DROP STANCHION, STREET LIGHTING	679.55	-			900.675 SPECIAL PROVISION (HAND PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)
					1					1	9084.85	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-	704	SM	DRIVES
											1		SA/CO #2 3-8-11 REMOVAL & DISPOSAL OF CONTAMINATED SOIL	900.545		75	SM	PAVED ISLANDS
					25					25	21	M	SPECIAL PROVISION (150MM UNDERDRAIN PIPE, DRY SWALE)	900.640	-	17	SM	MOUNTABLE APRON
					1					1	1	LS	SPECIAL PROVISION (TEMPORARY ROADWAY)	900.645	-	796	SM	SUBTOTAL
					820					820	534.37	SM	SPECIAL PROVISION (HAND PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675	24	24	SM	ROUNDING
										0	1		SA/CO #3 3-8-11 WASHINTON ELECTRIC SLEEVE	900.545		820	SM	TOTAL
										0	1		SA/CO #4 5-15 11 CORE & SEAL BOOT, CPEP ADAPTER	900.545				
										0	1		SA/CO #6 5-11-11 SAFETY GRATE AT DRAIN STRUCTURE #9	900.545				
										0	1		SA/CO #7 5-15-11 REWORK EMFD DRIVE AT 4+860, RT	900.545				
										0	1	LS	SA/CO #12 9-19-11 FLASH FLOOD REPAIR-LABOR & EQUIP. HRS	900.545				

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028frm.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
QUANTITY SHEET 4

PLOT DATE: 22-MAR-2010
DRAWN BY: I. DEGUTIS
CHECKED BY: J. DEVLIN
SHEET 12 OF 142

VAOT Metric

STATE OF VERMONT
AGENCY OF TRANSPORTATION

ITEM DETAIL SHEET

CURB

BEGIN STATION	END STATION	POSITION		REMARKS
		LEFT	RIGHT	
km + m	km + m	m	m	
616.20 - GRANITE SLOPE EDGING				
4+780.10 LT	14+037.50 LT	16.4		
SUBTOTAL				16.4
ROUNDING				0.6
TOTAL				17.0
616.21 - VERTICAL GRANITE CURB				
4+674.49 RT	4+696.44 RT		24.4	
4+704.72 RT	4+717.10 RT		25.2	ISLAND
4+709.00 LT	40+015.38 LT	59.9		ISLAND
4+731.70 RT	4+752.80 RT		39.7	ISLAND
4+752.80 RT	4+810.90 RT		54.1	
4+812.40 RT	4+854.94 RT		41.0	
4+813.80 LT	4+861.80 LT	49.4		
4+877.00 LT	4+930.00 LT	51.3		
14+037.50 RT	4+812.30 LT	4.6		
14+039.00 LT	14+042.00 LT	3.0		
14+039.00 RT	14+044.90 RT		6.3	
40+023.40 RT	4+780.10 LT	53.9		
100+082.37 RT	100+098.30 RT		15.9	
100+099.80 RT	100+103.80 RT		4.0	
SUBTOTAL		222	211	433
ROUNDING				7
TOTAL				440

SIDEWALK

BEGIN STATION	END STATION	POSITION		REMARKS
		LEFT	RIGHT	
km + m	km + m	m^2	m^2	
618.10 - PORTLAND CEMENT CONCRETE SIDEWALK, 125 MM				
40+014.54 RT	14+039.00 LT	88.0		
14+039.00 RT	4+813.80 LT	13.6		
4+810.90 RT	4+856.61 RT		64.9	
100+082.37 RT	100+156.58 RT		114.3	
SUBTOTAL		102	179	281
ROUNDING				4
TOTAL				285

GUARD RAIL

BEGIN STATION	END STATION	POSITION		END TREATMENT	
		LEFT	RIGHT	BEGIN	END
km + m	km + m	m	m	ea	ea
621.21 - HD STEEL BEAM GUARDRAIL, GALVANIZED					
4+947.25 LT	4+985.32 LT	38.1			
SUBTOTAL		38			
ROUNDING		2			
TOTAL		40			
621.51 - MANUFACTURED TERMINAL SECTION, TANGENT					
4+932.00 LT	4+947.25 LT			1	
TOTAL				1	

UNDERDRAIN

	BEGIN STATION	END STATION	TYPE	POSITION	DIA.	LENGTH	TRENCH		GRAN BKFILL	FB	MKR PST
							EARTH	ROCK			
	km + m	km + m			mm	m	m^3	m^3	m^3	ea	ea
	605.11 - 200MM UNDERDRAIN PIPE										
A	4+695.00 RT	4+825.00 RT	U	RT-RT	200	123.7	117.6			1	
B	4+864.24 LT	4+898.70 LT	U	LT-LT	200	33.6	30.7				
	SUBTOTAL					157	148.3				
	ROUNDING					3					
	TOTAL					160				1	
	605.21 - 200 MM UNDERDRAIN CARRIER PIPE										
C	4.863.00 LT	4+864.24 LT	C	LT-LT	200	3.0	0				
D	4+898.70 LT	4+900.02 LT	C	LT-LT	200	3.0	0				
	SUBTOTAL					6	0				
	ROUNDING					1					
	TOTAL					7					

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028frm.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
ITEM DETAIL SHEET

PLOT DATE: 22-MAR-2010
DRAWN BY: I. DEGUTIS
CHECKED BY: J. DEVLIN
SHEET 13 OF 142

STATE OF VERMONT
AGENCY OF TRANSPORTATION

DRAINAGE DETAIL SHEET

STATION km + m	STATION km + m	POS.	PIPE NUMBER	INLET/OUTLET TYPE INLET	INLET/OUTLET TYPE OUTLET	DITCH IN	DITCH OUT	PIPE ARCH SPAN mm	PIPE ARCH RISE mm	PIPE ARCH L m	PIPE D mm	PIPE L m	ALLOWABLE OPTIONS PCCSP mm	ALLOWABLE OPTIONS CAAP mm	ALLOWABLE OPTIONS RCP CL	ALLOWABLE OPTIONS CSP mm	ALLOWABLE OPTIONS CPEP SL mm	ALLOWABLE OPTIONS CPEP mm	PIPE ELBOW no. deg.	ES ea	CB ea	PRCCDI	DEPTH DI mm	CONC CLASS B m^3	REINF STEEL kg	DI GRATE type	CHAN ELEV ea	CRM m^3	TRENCH EXCAVATION EARTH m^3	TRENCH EXCAVATION ROCK m^3	COMM EXC m^3	UNC CHAN EXC m^3	STRUCT EXCAV m^3	GRAN BKFILL STRUCT m^3	GRAN BORR m^3	EROS MATT m^2	STONE FILL m^3	STONE FILL type	MARKER POSTS LT ea	MARKER POSTS RT ea			REMARKS
EXISTING DRAINAGE																																										
4+693.30	4+681.77	LT-RT	30																									4.4	0													REMOVE 380MM X 20.7M PIPE
4+834.49	4+835.79	RT-RT	31																									8.0	1.5													REMOVE 610MM X 11.5M PIPE AND HEADWALL
4+835.79	4+895.89	RT-RT	32																									0	5.8													REMOVE DI AND BACKFILL 610MM PIPE INLET
100+089.64	100+078.43	RT-RT	33																									0	0													RETAIN 380MM PIPE AND DI
100+078.19	100+079.03	RT-LT	34																									7.9	5.8													REMOVE 380MM X 15.3M PIPE AND DI
14+145.09	14+139.57	RT-RT	35																									6.7	0													REMOVE 310MM X 26.5M PIPE
14+139.57	14+250.24	RT-RT	36																									0	0													RETAIN 310MM PIPE
14+148.47	14+143.45	LT-LT	37																									5.0	0													REMOVE 380MM X 14.2M PIPE
100+012.63	14+128.19	RT-LT	38																									6.6	5.8													REMOVE 460MM X 20.3M PIPE AND DI
100+055.52	100+057.93	RT-LT	39																									0	0													REMOVE 380MM X 14.4M PIPE, RETAIN DI
PROPOSED DRAINAGE																																										
40+030.43	40+011.08	LT-LT	1	CB-1	CB-2						450	19.5			III		X				1		1620			D			61.7					17.5									1200MM PRC CATCH BASIN @ 40+030.43 LT
40+011.08	40+011.11	LT-RT	2	CB-2	CB-3						450	11.8			III		X				1		2790			D			77.4					12.0									1200MM PRC CATCH BASIN @ 40+011.08 LT
40+011.11	4+785.30	RT-LT	3	CB-3	CB-4						450	47.9			III		X				1		2780			D			249.3					38.1									1200MM PRC CATCH BASIN @ 40+011.11 RT
4+785.30	4+818.12	LT-LT	4	CB-4	CB-14						600	36.9			III		X				1		2050			D			179.2					32.9									1200MM PRC CATCH BASIN @ 4+785.30 LT
4+827.12	4+863.00	LT-LT	5	CB-5	CB-6						900	36.6			III		X				1		3520			D			298.8					39.9									1800MM PRC CATCH BASIN @ 4+827.12 LT
4+863.00	4+900.02	LT-LT	6	CB-6	CB-7						900	35.8			III		X				1		2770			D			226.1					39.1									1800MM PRC CATCH BASIN @ 4+863.00 LT
4+900.02	4+937.35	LT-LT	7	CB-7	STONE						900	36.4			III		X				1		2940			D			180.5					39.7			68	II					1800MM PRC CATCH BASIN @ 4+900.02 LT
14+044.60	4+827.12	RT-LT	9	HW	CB-5						900	9.1						X						4.30	363				51.3					13.9									REINFORCED CONCRETE HEADWALL AT INLET
4+800.03	4+800.03	RT-RT	10	CB-10	DS						450	7.2			III		X				1		2130			D			24.9					9.4									1500MM PRC CATCH BASIN @ 4+800.03 RT
4+825.68	4+824.99	RT-RT	11	CB-11	CB-12						450	4.8			III		X				1		2020			D			27.8					6.9									1200MM PRC CATCH BASIN @ 4+825.68 RT
4+824.99	4+827.12	RT-LT	12	CB-12	CB-5						450	16.3			III		X				1		2270			D			80.5					15.2									1200MM PRC CATCH BASIN @ 4+824.99 RT
14+038.87	4+818.12	RT-LT	13	CB-13	CB-14						450	4.1			III		X				1		2550			D			45.5					6.4									1200MM PRC CATCH BASIN @ 14+038.87 LT
4+818.12	4+827.12	LT-LT	14	CB-14	CB-5						600	9.9			III		X				1		3640			D			101.5					13.0									1800MM PRC CATCH BASIN @ 4+818.12 LT
14+091.93	14+076.43	LT-RT	15	CB-15	DITCH						600	29.3			III		X				1		1900			D			81.9					28.5									1800MM PRC CATCH BASIN @ 14+091.93 LT
100+055.52	14+091.93	RT-LT	16	EXDI	CB-15						375	22.8			III		X												37.3					15.7									EXISTING DI @ 100+055.52 RT
100+078.45	14+091.93	RT-LT	17	CB-17	CB-15						450	29.8			III		X				1		1900			D			68.5					25.0									1200MM PRC CATCH BASIN @ 100+078.45 RT
100+012.63	14+130.87	RT-LT	18	CB-18	CB-21						450	16.7			III		X				1		1950			D			77.4					15.5									1200MM PRC CATCH BASIN @ 100+012.63 RT
14+149.19	14+130.87	LT-LT	19	CB-19	CB-21						450	20.6			III		X				1		1790			D			89.8					18.3									1200MM PRC CATCH BASIN @ 14+149.19 LT
14+149.00	14.130.87	RT-LT	20	CB-20	CB-21						450	30.7			III		X				1		1540			D			77.6					25.7									1200MM PRC CATCH BASIN @ 14+149.00 RT
14+130.87	14+091.93	LT-LT	21	CB-21	CB-15						600	43.4			III		X				1		2290			D			196.8					38.9									1500MM PRC CATCH BASIN @ 14+130.87 LT
4+693.66	4+720.00	LT-LT	22	CB-22	CB-23						450	26.9			III		X				1		1970			D			62.2					22.9									1200MM PRC CATCH BASIN @ 4+693.66 LT
4+720.00	40+011.08	LT-LT	23	CB-23	CB-2						450	14.1			III		X				1		2790			D			61.7					13.6									1200MM PRC CATCH BASIN @ 4+720.00 LT
TOTALS											375	23	CPEP (SL) / RCP CLASS III						1200	CB	= 13			4.30	363	D = 20			2396	19				488			68	II					
											450	250	CPEP (SL) / RCP CLASS III						1500	CB	= 2																					
											600	120	CPEP (SL) / RCP CLASS III						1800	CB	= 5																					
											900	109	CPEP (SL) / RCP CLASS III																														
											900	9.1	CPEP																														

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028frm.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
DRAINAGE DETAIL SHEET

PLOT DATE: 22-MAR-2010
DRAWN BY: I. DEGUTIS
CHECKED BY: J. DEVLIN
SHEET 14 OF 142

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT			
STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME
km + m	m	m^2	m^3	m^2	m^3	m^2	m^3	m^2	m^3
				U.S ROUTE 2					
4+660		0		0		0			
	20		33		17		4		
4+680		3		2		0			
	20		155		34		4		
4+700		12		2		0			
	20		302		34		6		
4+720		18		2		1			
	20		376		34		8		
4+740		20		2		0			
	20		330		34		39		
4+760		13		2		4			
	20		273		34		60		
4+780		14		2		2			
	20		262		34		61		
4+800		12		2		4			
	20		241		34		117		
4+820		12		2		8			
	20		267		34		103	CUT	3746
4+840		15		2		2		ROCK	408
	20		334		34		24	R.FAC	.495
4+860		18		2		0		FILL	425
	20		393		34		0	F.FAC	1.15
4+880		21		2		0		EX. C	3459
	20		305		34		1		
4+900		10		2		0			
	20		100		17		2		
4+920		0		0		0			
	10		2		0		1		
4+930		0		0		0			
	10		139		0		0		
4+940		28		0		0			
	10		170		0		0		
4+950		6		0		0			
	10		39		0		0		
4+960		2		0		0			
	15		25		0		0		
4+975		2		0		0			
				VT ROUTE 14					
		0							
14+026				0		0			
	9	13	60		0		27		
14+035				0		6			
	5	13	65		0		32		
14+040				0		7			
	20	21	338		0		87		
14+060				0		2			
	20	9	306		0		37		
14+080				0		2			
	20	5	141		0		26		
14+100				0		1			
	20	3	78		0		15		
14+120				0		1		CUT	2369
	20	1	39		0		26	ROCK	0
14+140				0		2		R.FAC	.495
	20	13	138		0		35	FILL	330
14+160				0		2		F.FAC	1.15
	20	23	360		0		18	EX. C	1990
14+180				0		0			
	20	19	425		0		0		
14+200				0		0			
	20	10	293		0		7		
14+220				0		1			
	20	2	115		0		14		
14+240				0		1			
	15	0	12		0		5		
14+255				0		0			
				QUAKER HILL ROAD					
		0							
40+000				0		0			
	11	8	44		0		1		
40+011				0		0			
	9	4	56		0		2	CUT	249
40+020				0		0		ROCK	0
	20	5	97		0		3	R.FAC	.495
40+040				0		0		FILL	6
	20	0	52		0		1	F.FAC	1.15
40+060				0		0		EX. C	242

		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT			
STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME
km + m	m	m^2	m^3	m^2	m^3	m^2	m^3	m^2	m^3
				KELTON ROAD					
		0							
30+000				0		0			
	15	1	8		0		59		
30+015				0		8			
	5	4	13		0		25		
30+020				0		3		CUT	81
	20	1	49		0		32	ROCK	0
30+040				0		0		R.FAC	.495
	20	0	9		0		3	FILL	122
30+060				0		0		F.FAC	1.15
	10	0	2		0		2	EX. F	59
30+070				0		0			
				PARKING LOT					
100+000		0		0		0			
	7		0		0		27		
100+007		0		0		8			
	13		0		0		119		
100+020		0		0		10			
	20		0		0		217		
100+040		0		0		12			
	20		2		0		259		
100+060		0		0		14		CUT	288
	20		27		0		209	ROCK	0
100+080		3		0		7		R.FAC	.495
	20		43		0		122	FILL	1087
100+100		2		0		6		F.FAC	1.15
	20		37		0		94	EX. F	962
100+120		2		0		4			
	20		99		0		39		
100+140		8		0		0			
	20		79		0		1		
100+160		0		0		0			

		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT			
STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME
km + m	m	m^2	m^3	m^2	m^3	m^2	m^3	m^2	m^3

SUMMARY AND BALANCES

STATION TO STATION		TOT EXC. EARTH & ROCK	ROCK EXCAV	EMBANK	EXCESSES		ACUMULATIVE EXCESSES	
km + m	km + m	m^3	m^3	m^3	CUT	FILL	CUT	FILL
U.S ROUTE 2								
4+660	4+975	3746	408	425	3459	0	3459	0
VT ROUTE 14								
14+026	14+255	2369	0	330	1990	0	5449	0
QUAKER HILL ROAD								
40+000	40+060	249	0	6	242	0	5691	0
KELTON ROAD								
30+000	30+070	81	0	122	0	59	5632	0
PARKING LOT								
100+000	100+160	288	0	1087	0	962	4670	0
TOTALS		6733	408	1970				

REMARKS

EARTH AND ROCK EXCAVATION	6733	CM
SOLID ROCK EXCAVATION	408	CM
EARTH EXCAVATION	6325	CM
PLANIMETERED FILL	1970	CM
LESS FACTORED SOLID ROCK	202	CM
TRENCH BACKFILL MATERIAL	800	CM
NET PLANIMETERED FILL	2972	CM
FACTOR	1.15	
PLANIMETERED FILL INCLUDING FACTOR	3418	CM
MATERIALS AVAILABLE FOR FILLS		
EARTH EXCAVATION	6325	CM
TRENCH EXCAVATION (EARTH AND ROCK) X 60%	1602	CM
DRIVE EXCAVATION	225	CM
EXCAVATION OF SURFACES AND PAVEMENTS	22	CM
TOTAL MATERIAL AVAILABLE FOR FILL	8174	CM
TOTAL FILL INCLUDING FACTOR	3418	CM
TOTAL MATERIAL FOR FILL	8174	CM
BORROW	0	CM
EXCESS EXCAVATION	4756	CM

PROJECT NAME: EAST MONTPELIER
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EARTHWORKS SHEET

PLOT DATE: 22-MAR-2010
DRAWN BY: I. DEGUTIS
CHECKED BY: J. DEVLIN
SHEET 15 OF 142

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT - OF - WAY DETAIL SHEET

Metric

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
1	LAMB, DURWARD D. & LINDA L.	34	4+646.45 RT.	4+676.03 RT.	220.1 SM		ALL R.T. & I.			WD	4/3/2009	EAST MONTPELIER	106	037-38	US RTE 2 & VT 14; 2369 SF± (HWY. EASE.)
			4+672.00 RT.												DRIVE GRAVEL 6.1M (20') MM 0291
2	BIRON, JEFFREY R. & ROBIN D. & GLORIA A.	34	4+646.45 LT.	4+692.50 LT.	347.2 SM		ALL R.T. & I.								US RTE 2 & VT 14; 3737 SF±(HWY. EASE.)
	BIRON, TRUSTEE OF THE GLORIA A.		4+676.00 LT.												DRIVE 32.0M (105') PAVED MM 0291
	BIRON LIVING TRUST -LESSORS														
	J.R. BIRON, INC.-LESSEE														
			4+647.22 LT.	4+656.45 LT.											EXCEPT & RESERVE, GAS PUMP ISLAND
3	MOREY, ROBERT W. & GROVER-MOREY,	34	4+676.03 RT.	4+705.27 RT.	219.5 SM±		ALL R.T. & I.			WD	10/16/2009	EAST MONTPELIER	108	511-512	US RTE 2 & VT 14; 2363 SF±(HWY. EASE.)
	DEBRA		4+676.03 RT.	4+682.71 RT.			UTILITY EASE.	(P)	8.1 SM						87 SF±
			4+687.48 RT.	4+696.49 RT.			SLOPE	(T)	4.4 SM						47 SF±
			4+695.00 RT.				REMOVE	(T)							FENCE
			4+699.00 RT.				DRIVE	(T)							5.8M(19') GRAVEL MM0293
			4+679.56 RT.	4+681.10 RT.			INSTALL & MAINT.	(P)							GUY WIRE & ANCHOR
4	BIRON, JEFFREY R. & ROBIN D.	34,35	4+692.50 RT.	4+736.63 RT.	0.06HA		ALL R.T. & I.								US RT 2&VT.14&TH25, 0.15A±(HWY. EASE.)
			4+702.00 LT.				DRIVE	(T)							10.5M(34') GRAVEL MM 0293
			4+719.83 LT.	4+730.37 LT.			UTILITY EASE.	(P)	21.8 SM						235 SF±
			4+714.50 LT.	4+717.00 LT.			ALL R.T. & I.								PUMP ISLAND
			4+728.11 LT.	4+729.88 LT.			REMOVE	(T)							SIGN BASE
			TH25 40+023.00 LT.				DRIVE	(T)							10.0M(33') GRAVEL
			TH25 40+030.00 LT.				INSTALL & MAINT.	(P)							DROP INLET
			4+729.02 LT.				ALL R.T. & I.								SIGN BASE
			4+729.44 LT.	TH25 40+020.00 LT.			SLOPE	(T)	2.7 SM						29 SF±
			4+714.50 LT.	4+717.00 LT.			REMOVE	(T)							PUMP ISLAND
5A	GLORIA A. BIRON, TRUSTEE OF THE	34,35	4+705.13 RT.	4+777.69 RT.	125 SM										1345 SF±
	GLORIA A. BIRON LIVING TRUST		4+723.00 RT.				DRIVE	(T)							11.5M(38') GRAVEL MM 0294
			4+764.27 RT.	4+795.00 RT.			SLOPE	(T)	29.6 SM						319 SF±
			4+735.92 RT.	4+777.69 RT.			EASE.	(P)	20.7 SM						SIGHT RESTRICTION AREA(223 SF±)
5B		34,35	4+705.17 RT.	4+795.61 RT.	0.07HA		ALL R.T. & I.								US RTE. 2 & VT. 14 0.17A± (HWY. EASE.)
6A	STATE OF VERMONT	34,35	4+795.00 RT.	4+828.05 RT.	0.40HA	0				WD	8/9/2007	East Montpelier	99	127-132	TOTAL TAKE .99A± FORMERLY-LAPERLE, MAURICE A. & LUCILLE, M., LIFE ESTATE; LAPERLE, ALAN LAPERLE, GARY BROWN, JODI-LYNN LAPERLE, MARK
6B		35	4+795.00 RT.	4+828.05 RT.	226 SM		ALL R.T. & I.								US RTE. 2 2433 SF±
6C		34,35	4+644.83 RT.	4+828.05 RT.	0.20HA		ALL R.T. & I.								FORMERLY LAPERLE (0.50A±)
7	HASLAND, LLC	35	4+828.05 RT.	4+868.43 RT.	294.5 SM		ALL R.T. & I.			WD	5/11/2009	East Montpelier	106	354-356	US RTE. 2 3170 SF±(HWY. EASE.)
			4+833.62 RT.	4+838.26 RT.			EASE.	(T)	5.3 SM						REMOVE DI & PLUG 57 SF±
			4+838.96 LT.	4+840.16 RT.			ALL R.T. & I.								WATER LINE CROSSING US RTE. 2
			4+863.00 RT.				DRIVE	(T)							7.3M(24') GRAVEL MM0303
			4+840.16 RT.	4+868.62 RT.			UTILITY EASE.	(P)	60.1 SM						647 SF±
			4+848.20 RT.	4+868.43 RT.			DETOUR	(T)	26.5 SM						285 SF+
			4+863.00 RT.				ACCESS	(T)							INGRESS & EGRESS TO DETOUR

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE
1	10,15,16	PARCEL NO. 6, LAPERLE. CHANGE NAME TO	10/19/2006
		LAPERLE, MAURICE A & LUCILLE M., LIFE ESTATE.	
		LAPERLE, ALAN. LAPERLE, GARY. BROWN, JODI-LYNN.	
		LAPERLE, MARK. PER C.O. 9480	
		MADE BY: JAB APPROVED BY: HP	
2	21,32,37	PARCEL NO. 17, LAPERLE. REMOVE THE TWO TREES	6/11/2008
		NEAR THE SOUTHWEST BOUNDARY FROM THE PLANS.	
		THE OWNERS DO NOT WANT TREES PLANTED THERE.	
		MADE BY: MT APPROVED BY: HP	
3	29	PARCEL NO. 5, BIRON. CORRECTED CALCULATION OF	1/26/2009
		SM AND SF FOR EASE. (P)	
		MADE BY: MT APPROVED BY: HP	
4	29,34,35	PARCEL NO. 6 STATE OF VERMONT.	9/15/2009
		ACQUIRED FROM LAPERLE, MAURICE A. & LUCILLE, M.,	
		LIFE ESTATE. PER C.O. 9566	
		MADE BY: MR APPROVED BY: HP	

PLAN LEGEND

EXISTING RIGHT-OF-WAY	TOE OF SLOPE	(P)	-PERMANENT
TAKING WITH ACCESS	TOP OF CUT	(T)	-TEMPORARY
TAKING WITHOUT ACCESS	SLOPE RIGHT	DR.	-DRAINAGE RIGHT
CLEAR ZONE (CZ)	CONSTRUCTION RIGHT (CONST. (T))	DIT.	-DITCHING RIGHT
PROPERTY LINE (P / L)	PROJECT DEMARCATION FENCE (PDF)	CH.	-CHANNEL RIGHT
		DRIVE	-DRIVE RIGHT
		CUL.	-CULVERT RIGHT
		C&T	-CLEARING & TRIMMING RIGHT
		SR	-SLOPE RIGHT
		UE	-UTILITY EASEMENT

2/26/2010

APPROVED: HARRY PETROVS DATE: 07-07-08
CHIEF, PLANS & TITLES

PROJECT NAME: **EAST MONTPELIER**
PROJECT NUMBER: **STPG 028-3(35)S**

FILE NAME: **r98b028.xls**
PROJECT LEADER: **J. SCHULTZ**
DESIGNED BY: **J. GRUCHACZ**
R.O.W. DETAIL SHEET 29 OF 37

PLOT DATE:
DRAWN BY: **MT**
CHECKED BY: **FM**
SHEET **16** OF **142**

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT - OF - WAY DETAIL SHEET

Metric

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
8	CRETE, RENE - LESSOR	35,36	4+867.64 RT.	4+905.01 RT.	257.8 SM		ALL R.T. & I.			WD	10/16/2009	EAST MONTPELIER	108	513-515	HWY EASE. US RTE. 2775 SF±
	MARK BRADLEYd/b/a		4+868.43 RT.	4+878.97 RT.			UTILITY EASE.	(P)	26.0 SM						280 SF±
	BUY RIGHT AUTO SALES-LESSEE		4+869.25 RT.				INSTALL & MAINT.	(P)							GUY WIRE,ANCHOR
			4+869.25 RT.	4+873.70 RT.			INSTALL & MAINT.	(P)							GUY WIRE,ANCHOR
			4+874.08 RT.	4+904.95 RT.			DRIVE	(T)							30.9M(101')PAVED MM0304 IN
															COMMON ROW WITH PARCEL #9
			4+874.01 RT.				ACCESS	(T)							INGRESS & EGRESS FROM DETOUR
			4+868.43 RT.	4+904.95 RT.			DETOUR	(T)	161.5 SM						1738 SF±
9A	MONTAGUE, ARTHUR	36	4+897.00 RT.	4+912.43 RT.			DRIVE	(T)		QCD	10/16/2009	EAST MONTPELIER	108	516-517	14.8M(48') PAVED MM0305 IN COMMON
															WITH PARCEL #8 & #10
			4+897.59 RT.	4+904.95 RT.			ACCESS	(T)							INGRESS & EGRESS FROM DETOUR
			4+897.59 RT.	4+904.95 RT.			DETOUR	(T)	29.0 SM						312 SF±
9B		36	4+904.95 RT.	4+912.43 RT.			ACCESS	(T)							INGRESS & EGRESS FROM DETOUR
			4+904.95 RT.	4+912.43 RT.			DETOUR	(T)	19.2 SM						207SF ±
9C		36	4+897.46 RT.	4+912.62 RT.	108.5 SM		ALL R.T. & I.								HWY EASE. US RTE. 2 IN COMMON/
															PARCEL #10 & PARCEL #8 1168 SF±
10	LAWRENCE, JASON E.	36	4+904.95 RT.	4+994.83 RT.	0.08HA		ALL R.T. & I.			WD	4/3/2009	EAST MONTPELIER	106	034-	HWY EASE. US RTE. 2 IN COMMON/
	d/b/a JASON'S ELECTRONICS-LESSOR													36	PARCEL #9 0.20A±
	LAWRENCE,JOHN E. d/b/a ROUTE 2		4+904.50 RT.	4+930.00 RT.			DRIVE	(T)							25.5M(84') PAVED MM0307 / IN
	ANTIQUES & RESTORATIONS														COMMON /PARCEL #9
			4+904.95 RT.	4+920+00 RT.			ACCESS	(T)							INGRESS & EGRESS FROM DETOUR
			4+904.95 RT.	4+920+00 RT.			DETOUR	(T)	27.7 SM						298 SF±
11	DELETED														FORMERLY ROYCE, LINDA LEE AND
															ROYCE, DOUGLAS A.
12	OLD BRICK CHURCH ,UNITED CHURCH	35	TH 25 40+008.32 LT.	RT.14 100+087.80 RT.	0.06HA		ALL R.T. & I.								VT RTE. 14 & US RTE. 2 & TH25 0.15A±
	OF EAST MONTPELIER														(HWY. EASE.)
			TH25 40+050.80 RT.	4+763.99 LT.			UTILITY EASE.	(P)	253.0 SM						2723 SF±EXCEPT & RESERVE(2 SIGNS)
			VT.14 100+119.22 RT.				WALK	(T)							SIDEWALK 1.2M(4')
			VT.14 100+091.33 RT.	VT.14 100+109.08 RT.											EXCEPT AND RESERVE -CHURCH
			VT.14 100+076.98 RT.				DRIVE	(T)							14M(46') PAVED MM 0252
															IN COMMON WITH PARCEL #15
			VT. 14 100+139.00 RT.				LANDSCAPE	(T)							PLANT 1 TREE
			VT. 14 100+142.00 RT.				REMOVE	(T)							TREE
			VT. 14 100+142.00 RT.	VT. 14 100+165.00 RT.			LANDSCAPE	(T)							PLANT 4 TREES

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

PLAN LEGEND

- EXISTING RIGHT-OF-WAY
- TAKING WITH ACCESS
- TAKING WITHOUT ACCESS
- CZ — CLEAR ZONE
- P / L — PROPERTY LINE
- TOE OF SLOPE
- TOP OF CUT
- SR (P) — SLOPE RIGHT
- CONST.(T) — CONSTRUCTION RIGHT
- PDF ——— PDF — PROJECT DEMARCATION FENCE

(P)	-PERMANENT
(T)	-TEMPORARY
DR.	-DRAINAGE RIGHT
DIT.	-DITCHING RIGHT
CH.	-CHANNEL RIGHT
DRIVE	-DRIVE RIGHT
CUL.	-CULVERT RIGHT
C&T	-CLEARING & TRIMMING RIGHT
SR	-SLOPE RIGHT
UE	-UTILITY EASEMENT

2/26/2010

APPROVED: HARRY PETROVS DATE: 07-07-08
CHIEF, PLANS & TITLES

PROJECT NAME: **EAST MONTPELIER**
PROJECT NUMBER: **STPG 028-3(35)S**

FILE NAME: **r98b028.xls**
PROJECT LEADER: **J. SCHULTZ**
DESIGNED BY: **J. GRUCHACZ**
R.O.W. DETAIL SHEET 30 OF 37

PLOT DATE:
DRAWN BY: **MT**
CHECKED BY: **FM**
SHEET **17** OF **142**

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT - OF - WAY DETAIL SHEET

Metric

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
13A	GLORIA A. BIRON ,TRUSTEE OF THE	35,37	4+748.12 LT.	4+832.76 LT.	0.34HA	0.00									0.84 A± TOTAL TAKE
	GLORIA A. BIRON LIVING TRUST-LESSOR														
	& OLD BRICK CHURCH ,UNITED CHURCH														
	OF EAST MONTPELIER -LESSEE														
13B		35,37	4+748.12 LT.	Rel. VT. 14 14+092.64 LT.	0.07HA		ALL R.T. & I.								VT RTE. 14 0.17 A± (HWY. EASE.)
13C		35	4+736.63 RT.	4+833.44 RT.	0.07HA		ALL R.T. & I.								US RTE. 2 & TH 25 0.17 A±(HWY. EASE.)
14A	WINSTON, JONATHAN D. &	35,36	4+828.37 LT.	4+885.39 LT.	223.0 SM					WD	10/16/2009	EAST MONTPELIER	108	518-520	2400 SF±
	REXFORD-WINSTON, SUZANNE	37	Rel. VT. 14 14+080.56 RT.	Rel. VT. 14 14+083.17 RT.			SLOPE	(T)	1.7 SM						18 SF±
			Rel. VT. 14 14+083.17 RT.	4+867.08 LT.			CONST.	(T)	121.0 SM						1302 SF±
			Rel. VT. 14 14+078.55 RT.	4+866.27 LT.			SLOPE	(T)	116.9 SM						1258 SF±
			4+825.00 LT.	4+885.39 LT.			CUL.	(P)							DROP INLETS & HEADWALL
			4+840.00 LT.±	4+860.00 LT ±			ALL R.T. & I.								SEPTIC SYSTEM & APPURTENANCES
			4+871.00 LT.				DRIVE	(T)							7.3M(24') GRAVEL MM0303
			4+875.21 LT.	4+891.51 LT.			SLOPE	(P)	30.8 SM+						332 SF+
			4+876.68 LT.	4+893.52 LT.			REMOVE	(T)	75.8 SM						SHED/GARAGE 816 SF±
			4+880.00 LT.	4+889.48 LT.			ALL R.T. & I.								SHED/GARAGE
			4+904.60 LT.												MONITOR WELL
			4+838.96 LT.	4+840.16 RT.			ALL R.T. & I.								WATER LINE TO PARCEL #7,X-ING US 2
			4+931.50 LT.	4+979.74 LT.			CONST.	(T)	183.4 SM						1974 SF+
			4+934.65 LT.	4+957.08 LT.			SLOPE	(P)	113.0 SM						1216 SF+
			REL. VT. 14 14+061.00 RT.	REL. VT. 14 14+068.00 RT.			LANDSCAPE	(T)							PLANT 3 TREES
14B		35,36	4+832.76 LT.	4+994.59 LT.	0.18HA		ALL R.T. & I.								US RTE. 2 0.44 A±(HWY. EASE.)
15A	WASHINGTON ELECTRIC COOPERATIVE ,	35,37	Rel. VT. 14 14+083.17 RT.	Rel. VT. 14 14+177.88 RT.	0.17HA										0.42 A±
	INC.		Rel. VT. 14 14+082.28 RT.	Rel. VT. 14 14+098.11 RT.			SLOPE	(T)	30.2 SM						325 SF±
			Rel. VT. 14 14+083.17 RT.	Rel. VT. 14 14+082.28 RT.			REMOVE	(T)							FENCE
			Rel. VT. 14 14+138.00 RT.				DRIVE	(T)							10.5M(35') PAVED MM0256
			Rel. VT. 14 14+123.45 RT.	Rel. VT. 14 14+130.94 RT.			SLOPE	(T)	3.0 SM						32 SF±
			Rel. VT. 14 14+137.05 RT.	Rel. VT. 14 14+147.92 RT.			REMOVE	(T)	115.1 SM						CUL. & PLUG DROP INLET 1239 SF±
			Rel. VT. 14 14+139.28 RT.	Rel. VT. 14 14+145.08 RT.			ALL R.T. & I.								CULVERT
			Rel. VT. 14 14+169.00 RT.	Rel. VT. 14 14+174.00 RT.			LANDSCAPE	(T)							PLANT 2 TREES
15B		35,37	VT. RT.14 100+055.56 RT.	Rel. VT. 14 14+131.16 LT.	117.2 SM										1262 SF±
			VT. RT.14 100+076.98 RT.				DRIVE	(T)							14M(46') PAVED MM0252
															IN COMMON/ PARCEL #12
			VT. RT.14 100+078.43 RT.				INSTALL & MAINT.	(P)							DROP INLET
			VT. RT.14 100+015.00 RT.	VT. RT.14 100+020.00 RT.			INSTALL & MAINT.	(P)							GUY WIRE & APPURTANANCES
			VT. RT.14 100+012.62 RT.				INSTALL & MAINT.	(P)							DROP INLET
			VT. RT.14 100+011.04 RT.	Rel. VT. 14 14+131.16 LT.			INSTALL & MAINT.	(P)							GUY WIRE & APPURTANANCES
			VT. RT.14 100+017.14 RT.				REMOVE	(T)							GUY
			VT. RT.14 100+041.00 RT.				LANDSCAPE	(T)							PLANT 1 TREE
15C		35,37	VT. RT.14 100+087.80 RT.	Rel. VT. 14 14+179.76 LT.	0.15HA		ALL R.T. & I.								VT. RTE. 14 & TH39 0.37 A±(HWY. EASE.)

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

2/26/2010

PLAN LEGEND

EXISTING RIGHT-OF-WAY		TOE OF SLOPE	
TAKING WITH ACCESS		TOP OF CUT	
TAKING WITHOUT ACCESS		SLOPE RIGHT	SR (P)
CLEAR ZONE	CZ	CONSTRUCTION RIGHT	CONST.(T)
PROPERTY LINE	P / L	PROJECT DEMARCATION FENCE	PDF PDF

(P)	-PERMANENT
(T)	-TEMPORARY
DR.	-DRAINAGE RIGHT
DIT.	-DITCHING RIGHT
CH.	-CHANNEL RIGHT
DRIVE	-DRIVE RIGHT
CUL.	-CULVERT RIGHT
C&T	-CLEARING & TRIMMING RIGHT
SR	-SLOPE RIGHT
UE	-UTILITY EASEMENT

APPROVED: HARRY PETROVS DATE: 07-07-08
CHIEF, PLANS & TITLES

PROJECT NAME: **EAST MONTPELIER**
PROJECT NUMBER: **STPG 028-3(35)S**

FILE NAME: **r98b028.xls**
PROJECT LEADER: **J. SCHULTZ**
DESIGNED BY: **J. GRUCHACZ**
R.O.W. DETAIL SHEET 31 OF 37

PLOT DATE:
DRAWN BY: **MT**
CHECKED BY: **FM**
SHEET **18** OF **142**

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT - OF - WAY DETAIL SHEET

Metric

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
16A	TOWN OF EAST MONTPELIER	37	REL. VT. 14 14+144.20 LT.	REL. VT. 14 14+147.96 LT.	18.3 SM					QCD	4/13/2009	EAST MONTPELIER	106	120-	197 SF±
			TH39 30+054.15 RT.				DRIVE	(T)						122	7.4M(24') GRAVEL
16B		37	Rel. VT. 14 14+179.71 LT.	Rel. VT 14 14+200.45 LT.	36.9 SM										397 SF±
			Rel. VT. 14 14+163.02 LT.	Rel. VT.14 14+186.21 LT.			SLOPE	(T)	23.7 SM						255 SF±
			Rel. VT. 14 14+191.33 LT.				REMOVE	(T)							TREE
			Rel. VT. 14 14+147.96 LT.	Rel. VT. 14 14+198.62 LT.			UTILITY EASE.	(P)	110.1 SM						1185 SF±
16C		37	Rel. VT. 14 14+125.84 LT.	Rel. VT. 14 14+200.45 LT.	187.4 SM		ALL R.T. & I.								VT RTE. 14 & TH39 2017 SF±(HWY.EASE.)
16D		37	TH.#39 30+022.8 CL	TH. #39 30+070 CL			APPROACH	(T)							TH39 KELTON RD
			VT. 14 100+012.62 RT.				CULVERT	(P)							TH 39
16E		35	4+729.02 CL	4+748.12 LT.	348.3 SM		ALL R. T. & I.								US Rte. 2 & T.H. 25(HWY. EASE.)3749 SF±
			TH 25 40+017.99 CL	TH 25 40+060.00 CL			APPROACH	(T)							TH25 QUAKER HILL RD
			TH 25 40+017.00 LT.	TH 25 40+030.00 LT.			CULVERT	(P)							TH 25 INCLUDES DI
17A	LAPERLE, NORMAN A. &	37	Rel. VT. 14 14+176.17RT.	Rel. VT. 14 14+221.15 RT.	112.85 SM					WD	6/15/2009	EAST MONTPELIER	107	24-25	1214 SF±
	CLAIRE		Rel. VT. 14 14+213.50 RT.				DRIVE	(T)							9.1M(30') PAVED MM 0256
			Rel. VT. 14 14+221.15 RT.	Rel. VT. 14 14+245.67 RT.			SLOPE	(T)	23.3 SM						251 SF±
			Rel. VT. 14 14+184.19 RT.												MONITOR WELL
			Rel. VT. 14 14+185.66 RT.												MONITOR WELL
17B		37	Rel. VT. 14 14+177.88 RT.	Rel. VT. 14 14+281.49 CL	0.08HA		ALL R.T. & I.								VT RTE. 14 0.20 A±(HWY. EASE.)
18A	O'VITT, DAVID P.	37	Rel. VT. 14 14+198.62 LT.	Rel. VT.14 14+242.58 LT.	72.0 SM					WD	5/11/2009	EAST MONTPELIER	106	359-	775 SF±
			Rel.VT. 14 14+198.60 LT.	Rel. VT.14 14+223.52 LT.			UTILITY EASE.	(P)	26.3 SM					361	283 SF+
			Rel. VT.14 14+203.31 LT.	Rel. VT.14 14+205.5 LT.			INSTALL & MAINT.	(P)							GUY WIRE AND APPURTANANCES
			Rel. VT. 14 14+211.00 LT.				DRIVE	(T)							4.8M(16') GRAVEL MM 0256
			Rel. VT. 14 14+217.84 LT.	Rel. VT. 14 14+242.58 LT.			SLOPE	(T)	13.3 SM						143 SF±
			Rel. Vt. 14 14+198.62 LT.				REMOVE	(T)							TREE
			Rel. VT. 14 14+201.09 LT.				REMOVE	(T)							GUY WIRE AND APPURTANANCES
18B		37	Rel. VT.. 14 14+200.45 LT.	Rel. VT. 14 14+281.49 CL	0.06HA		ALL R.T. & I.								VT RTE. 14 0.15 A± (HWY. EASE.)

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

2/26/2010

PLAN LEGEND

- EXISTING RIGHT-OF-WAY
- TAKING WITH ACCESS
- TAKING WITHOUT ACCESS
- CLEAR ZONE (CZ)
- PROPERTY LINE (P / L)
- TOE OF SLOPE
- TOP OF CUT
- SLOPE RIGHT (SR (P))
- CONSTRUCTION RIGHT (CONST. (T))
- PROJECT DEMARCATION FENCE (PDF)

(P) -PERMANENT
(T) -TEMPORARY
DR. -DRAINAGE RIGHT
DIT. -DITCHING RIGHT
CH. -CHANNEL RIGHT
DRIVE -DRIVE RIGHT
CUL. -CULVERT RIGHT
C&T -CLEARING & TRIMMING RIGHT
SR -SLOPE RIGHT
UE -UTILITY EASEMENT

APPROVED: HARRY PETROVS DATE: 07-07-08
CHIEF, PLANS & TITLES

PROJECT NAME: **EAST MONTPELIER**
PROJECT NUMBER: **STPG 028-3(35)S**

FILE NAME: **r98b028.xls**
PROJECT LEADER: **J. SCHULTZ**
DESIGNED BY: **J. GRUCHACZ**
R.O.W. DETAIL SHEET 32 OF 37

PLOT DATE:
DRAWN BY: **MT**
CHECKED BY: **FM**
SHEET **19** OF **142**

STATE OF VERMONT
AGENCY OF TRANSPORTATION

RIGHT - OF - WAY DETAIL SHEET

Metric

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA ±	AREA ±	TYPE	(T)/(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK	PAGE	
19	WASHINGTON ELECTRIC C0-OP, INC.														UTILITY
20	GREEN MOUNTAIN POWER CORP.														UTILITY
21	FAIRPOINT COMMUNICATIONS INC.														UTILITY
22	COMCAST OF CONNECTICUT/GEORGIA MASSACHUSETTS/NEW HAMPSHIRE/ NEW YORK/NORTH CAROLINA/VERMONT, LLC														UTILITY
23	THEODORE G. HEDGES & SONS, INC. d/b/a CRYSTAL SPRINGS WATER CO.														UTILITY
	MAINTENANCE AGREEMENT ZONE #1	35	TH25 40+005.83 CL	TH25 40+017.99 CL.											LENGTH 12.2M(40')TH25 QUAKER HILL RD
	MAINTENANCE AGREEMENT ZONE #2	37	TH39 30+007.51 CL	TH39 30+015.84 CL											LENGTH 8.3M(27') TH39 KELTON RD
	RELINQUISHMENT AREA NO. I	35,37	TH25 40+019.69 RT.	VT. 14 14+145.86 LT.											0.31HA (0.78 A±) VT. 14

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE

2/26/2010

PLAN LEGEND

- EXISTING RIGHT-OF-WAY
- TAKING WITH ACCESS
- TAKING WITHOUT ACCESS
- CLEAR ZONE (CZ)
- PROPERTY LINE (P/L)
- TOE OF SLOPE
- TOP OF CUT
- SLOPE RIGHT (SR (P))
- CONSTRUCTION RIGHT (CONST. (T))
- PROJECT DEMARCATION FENCE (PDF)

(P)	-PERMANENT
(T)	-TEMPORARY
DR.	-DRAINAGE RIGHT
DIT.	-DITCHING RIGHT
CH.	-CHANNEL RIGHT
DRIVE	-DRIVE RIGHT
CUL.	-CULVERT RIGHT
C&T	-CLEARING & TRIMMING RIGHT
SR	-SLOPE RIGHT
UE	-UTILITY EASEMENT

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FILE NAME: r98b028.xls
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
R.O.W. DETAIL SHEET 33 OF 37

PLOT DATE:
DRAWN BY: MT
CHECKED BY: FM
SHEET 20 OF 142

VTrans Metric

N

VT STATE PLANE GRID

MATCH LINE TO ROW SHEET 35 OF 37

BIRON, JEFFREY R. & GLORIA A. BIRON -TRUSTEE
of The GLORIA A. BIRON LIVING TRUST-LESSORS
AND J.R. BIRON, INC.-LESSEE

BIRON, JEFFREY R. & ROBIN D.

GLORIA A. BIRON -TRUSTEE

MOREY, ROBERT W. & GROVER-MOREY, DEBRA

LAMB, DURWARD D. & LINDA L.

N/F FERLAND

N/F HASLAND, LLC

VT ROUTE 14
2010
AVERAGE WEEKDAY
TRAFFIC

STATE OF VERMONT

4+676.03 ℄

4+692.50
7.2M LT. (23.60')

4+692.50
.3M RT. (0.98')

4+705.27
.5M RT. (1.64')

4+705.17
8.04M RT. (26.38')

4+705.13
11.00M RT. (36.09')

4+646.45
7.54M LT. (24.75')

4+646.45
7.54M RT. (24.75')

4+676.03
7.54M RT. (24.75')

4+675.32
74.31M RT. (243.80')

4+644.83
74.78M RT. (245.34')

4+646.62
110.52M RT. (362.60')

STATION 4+660.000
BEGIN APPROACH

STATION 4+705.000
BEGIN PROJECT
END APPROACH

REMOVE (T)

INSTALL (P)

DO NOT DISTURB SEWER LINE

EXCEPT & RESERVE

EXCEPT & RESERVE

approximate location of septic line to tank on Montague's

monitoring system of State for Biron, across Lamb's on Hasland, LLC

BLDG

0.5± ACRES

210.10 COLD PLANING BITUMINOUS PAVEMENT
STA 4+660.00 - 4+674.50

616.21 VERTICAL GRANITE CURB
STA 4+674.49 RT - 4+696.44 RT
STA 4+704.72 RT - 4+717.10 RT (ISLAND)
STA 4+709.00 LT - 4+710.63 LT (ISLAND)

620.55 REMOVAL OF EXISTING FENCE
STA 4+694.96 RT - 4+695.03 RT

900.675 SPECIAL PROVISION
(HAND PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)
STA 4+660.00 LT - 4+692.00 LT (PAVED DRIVE APRON)
STA 4+672.00 RT (6.1M - PAVED)
STA 4+699.00 RT (5.8M - PAVED)
STA 4+702.00 LT (12.0M - PAVED)

FOR EROSION CONTROL DETAIL SEE R O W SHEETS 13-19 OF 37

FOR LANDSCAPE DETAIL SEE R O W SHEETS 20-24 OF 37

FOR DRAINAGE DETAIL SEE R O W SHEETS 25-28 OF 37

LINE SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S AQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

BEGIN R. O. W. PROJECT
STPG 028-3(35)S
STA. 4+646.45 CL

0 10 20 30
SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: r98b0281l.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
R.O.W. LAYOUT SHEET 34 OF 37

PLOT DATE: 22-MAR-2010
DRAWN BY: R.O.W.
CHECKED BY: R.O.W.
SHEET 21 OF 142

210.10 COLD PLANING BITUMINOUS PAVEMENT
STA 40+052.75 - 40+060.00

203.28 EXCAVATION OF SURFACES AND PAVEMENTS
STA 100+082.36 RT - 100+157.58 RT
STA 100+091.40 LT - 100+155.08 RT

616.20 GRANITE SLOPED EDGING
STA 4+780.10 LT - 14+037.50 LT

616.21 VERTICAL GRANITE CURB
STA 4+710.63 LT - 40+015.38 LT (ISLAND)
STA 4+731.70 RT - 4+752.80 RT (ISLAND)
STA 4+752.80 RT - 4+810.90 RT
STA 4+812.40 RT - 4+854.94 RT
STA 4+813.80 LT - 4+861.80 LT
STA 14+037.50 RT - 4+812.30 LT
STA 14+039.00 LT - 14+042.00 LT
STA 14+039.00 RT - 14+044.90 RT
STA 40+023.40 RT - 4+780.10 LT
STA 100+082.37 RT - 100+098.30 RT
STA 100+099.80 RT - 100+103.80 RT

618.10 PORTLAND CEMENT CONCRETE SIDEWALK, 125MM
STA 40+014.54 RT - 14+039.00 LT
STA 14+039.00 RT - 4+813.80 LT
STA 4+810.90 RT - 4+856.61 RT
STA 100+082.37 RT - 100+156.58 RT

CONSTRUCT SIDEWALK RAMP WITH 618.30 DETECTABLE WARNING SURFACE
STA 4+811.65 RT - TYPE 6
STA 4+813.07 LT - TYPE 1
STA 4+854.64 RT - TYPE 1
STA 14+038.25 LT - TYPE 1
STA 14+038.25 RT - TYPE 1
STA 100+082.67 RT - TYPE 1
STA 100+099.05 RT - TYPE 6

900.675 SPECIAL PROVISION (HAND PLACED BITUMINOUS CONCRETE WEDGE CURB OR BERM)
STA 4+723.00 RT (12.0M - PAVED)
STA 4+863.00 RT (7.3M - PAVED)
STA 4+871.00 LT (7.3M - PAVED)
STA 40+023.00 LT (12.0M - PAVED)
STA 100+076.00 RT (12.5M - PAVED)

CONSTRUCT MOUNTABLE APRON
STA 4+780.10 LT - 14+037.50 LT (PAVED)

MATCH LINE TO ROW SHEET 37 OF 37

WASHINGTON ELECTRIC CO-OP, INC.

100+087.80 CL
100+087.80 7.54M RT. (24.75')

EXCEPT & RESERVE OLD BRICK CHURCH 2.5M (8.2')

THE OLD BRICK CHURCH

N/F ROYCE

BEGIN RELINQUISHMENT AREA NO. 1
QUAKER HILL ROAD
STA. 40+019.69
6.95M (22.8') RT.

LANDSCAPE (T)

EXCEPT & RESERVE TWO SIGNS

14+045.00 33.86M LT. (111.1')

GLORIA A. BIRON-TRUSTEE -LESSOR
OLD BRICK CHURCH-LESSEE
14+045.00 16.00M LT. (52.5')

4+765.53 19.50M LT. (64.0')

4+775.00 14.46M LT. (47.4')

4+795.61 5.12M RT. (16.8')

14+070.77 26.29M LT. (86.2')

14+083.17 8.60M RT. (28.2')

WASHINGTON ELECTRIC CO-OP, INC.

FOR EROSION CONTROL DETAIL SEE R O W SHEET 13-19 OF 37

FOR DRAINAGE DETAIL SEE R O W SHEET 25-28 OF 37

FOR LANDSCAPE DETAIL SEE R O W SHEET 20-24 OF 37

WINSTON, JONATHAN D. & REXFORD-WINSTON, SUZANNE

LANDSCAPE (T)

W-3 location of H2O well and system OWNED BY HASLAND

4+800.000 = VT 14 STA 14+026.000 ANGLE = 99°21'43.56"

4+828.37 9.25M LT. (30.3')

4+828.05 6.82M RT. (22.1')

4+828.05 14.31M RT. (46.9')

4+833.44 6.45M RT. (21.2')

4+795.00 12.60M RT. (41.3')

4+777.69 11.34M RT. (37.2')

4+747.90 1.74M RT. (5.7')

4+748.12 7.57M LT. (24.8')

4+729.02

4+736.63 0.91M RT. (3.0')

4+741.95 10.5M RT. (34.4')

4+730.17 16.5M LT. (54.1')

4+832.76 1.05M LT. (3.4')

4+863.06 7.82M LT. (25.7')

4+867.64 2.76M RT. (9.1')

4+868.43 10.21M RT. (33.5')

40+008.32 .82M LT. (2.7')

40+005.09 11.29M RT. (37.0')

40+017.99 CL

40+060.000 END CONSTRUCTION

END MAINTENANCE AGREEMENT ZONE NO. 1
QUAKER HILL ROAD TH#25
STA. 40+017.99 CL
LENGTH 12.2M (40.0')

BEGIN MAINTENANCE AGREEMENT ZONE NO. 1
QUAKER HILL ROAD TH#25
STA. 40+005.83 CL

N/F HEMINGWAY

BIRON, JEFFREY R. & ROBIN D.

GLORIA A. BIRON -TRUSTEE

STATE OF VERMONT

HASLAND, LLC.

APPROX. LOC. H20 LINE FROM SILBERBERG OWNED BY HASLAND (disconnected)

approx. location leach field on Hasland's

APPROX. LEACH FIELD LOCATION

CRETE, RENE-lessor
MARK BRADLEY d/b/a BUY RIGHT AUTO SALES-lessee

US 2 CURVE DATA
△ = 69°36'40.8" RT
R = 100.00
T = 69.87
L = 121.50
E = 20.715
BANK = 0.0475

TOWN OF EAST MONTPELIER

TH #25

MATCH LINE TO ROW SHEET 34 OF 37

0 10 20 30
SCALE IN METERS

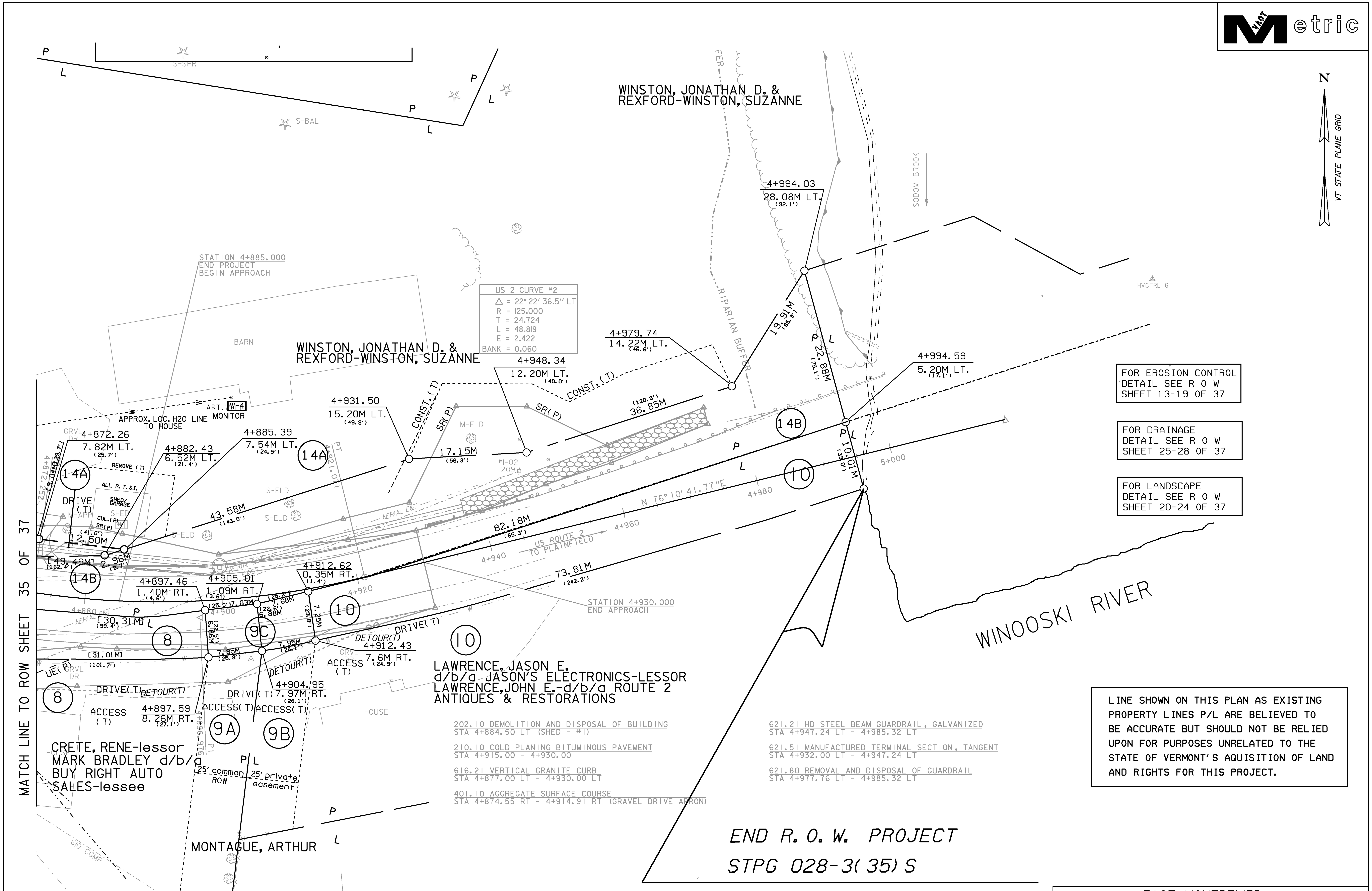
LINE SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S AQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

N

VT STATE PLANE GRID

MATCH LINE TO ROW SHEET 36 OF 37

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028-3(35)S
FILE NAME: r98b028l2.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: R.O.W.
DESIGNED BY: J. GRUCHACZ	CHECKED BY: R.O.W.
R.O.W. LAYOUT SHEET 35 OF 37	SHEET 22 OF 142


VAOT Metric
N
VT STATE PLANE GRID
WINSTON, JONATHAN D. &
REXFORD-WINSTON, SUZANNE
4+994.03
28.08M LT.
(92.1')
SODOM BROOK
RIPARIAN BUFFER
STATION 4+885.000
END PROJECT
BEGIN APPROACH
US 2 CURVE #2
△ = 22° 22' 36.5" LT
R = 125.000
T = 24.724
L = 48.819
E = 2.422
BANK = 0.060
BARN
WINSTON, JONATHAN D. &
REXFORD-WINSTON, SUZANNE
4+948.34
12.20M LT.
(40.0')
4+979.74
14.22M LT.
(46.6')
4+994.59
5.20M LT.
(17.1')
HVCTRL 6
4+931.50
15.20M LT.
(49.9')
17.15M
(56.3')
36.85M
(120.9')
19.91M
22.88M
10.01M
CONST.(T)
SR(P)
M-ELD
APPROX. LOC. H2O LINE TO HOUSE
ART. W-4 MONITOR
4+872.26
7.82M LT.
(25.7')
4+882.43
6.52M LT.
(21.4')
4+885.39
7.54M LT.
(24.5')
14A
14B
43.58M
(143.0')
82.18M
(65.3')
N 76° 10' 41.77" E
US ROUTE 2 TO PLAINFIELD
73.81M
(242.2')
4+897.46
1.40M RT.
(4.6')
4+905.01
1.09M RT.
(3.6')
4+912.62
0.35M RT.
(1.4')
4+912.43
7.6M RT.
(24.9')
4+904.95
7.97M RT.
(26.1')
4+897.59
8.26M RT.
(27.1')
STATION 4+930.000
END APPROACH
DRIVE(T)
DETOUR(T)
ACCESS (T)
DRIVE (T)
REMOVE (T)
ALL R.T. & I.
SHED/GARAGE
CUL.(P)
SR(P)
12.50M
[49.49M]
(162.4')
[30.31M]
(99.4')
[31.01M]
(101.7')
8
9A
9B
9C
10
WINOOSKI RIVER
LAWRENCE, JASON E.
d/b/a JASON'S ELECTRONICS-LESSOR
LAWRENCE, JOHN E.-d/b/a ROUTE 2
ANTIQUES & RESTORATIONS
HOUSE
CRETE, RENE-lessor
MARK BRADLEY d/b/a
BUY RIGHT AUTO
SALES-lessee
25' common ROW
25' private easement
MONTAGUE, ARTHUR
MATCH LINE TO ROW SHEET 35 OF 37
202.10 DEMOLITION AND DISPOSAL OF BUILDING
STA 4+884.50 LT (SHED - #1)
210.10 COLD PLANING BITUMINOUS PAVEMENT
STA 4+915.00 - 4+930.00
616.21 VERTICAL GRANITE CURB
STA 4+877.00 LT - 4+930.00 LT
401.10 AGGREGATE SURFACE COURSE
STA 4+874.55 RT - 4+914.91 RT (GRAVEL DRIVE APRON)
621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
STA 4+947.24 LT - 4+985.32 LT
621.51 MANUFACTURED TERMINAL SECTION, TANGENT
STA 4+932.00 LT - 4+947.24 LT
621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA 4+977.76 LT - 4+985.32 LT
END R.O.W. PROJECT
STPG 028-3(35) S
0 10 20 30
SCALE IN METERS

FOR EROSION CONTROL DETAIL SEE R O W SHEET 13-19 OF 37

FOR DRAINAGE DETAIL SEE R O W SHEET 25-28 OF 37

FOR LANDSCAPE DETAIL SEE R O W SHEET 20-24 OF 37

LINE SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S AQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

PROJECT NAME: EAST MONTPELIER	
PROJECT NUMBER: STPG 028-3(35)S	
FILE NAME: r98b028l3.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: R.O.W.
DESIGNED BY: J. GRUCHACZ	CHECKED BY: R.O.W.
R.O.W. LAYOUT SHEET 36 OF 37	SHEET 23 OF 142

N

VT STATE PLANE GRID

FOR EROSION CONTROL DETAIL SEE R O W SHEET 13-19 OF 37

FOR DRAINAGE DETAIL SEE R O W SHEET 25-28 OF 37

FOR LANDSCAPE DETAIL SEE R O W SHEET 20-24 OF 37

210.10 COLD PLANING BITUMINOUS PAVEMENT
STA 14+240.50 - 14+255.00

203.28 EXCAVATION OF SURFACES AND PAVEMENTS
STA 14+093.41 LT - 14+136.70 LT
STA 14+143.52 LT - 14+177.43 LT
STA 100+019.55 RT - 30+032.38 LT

401.10 AGGREGATE SURFACE COURSE
STA 14+201.00 LT (4.8M - GRAVEL DRIVE)
STA 30+053.00 RT (7.0M - GRAVEL DRIVE)
STA 30+060.00 - 30+070.00 (KELTON ROAD)

900.675 SPECIAL PROVISION
(HAND PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)
STA 14+137.00 RT (10.5M - PAVED)
STA 14+217.00 RT (9.1M - PAVED)

LINE SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S AQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

END RELINQUISHMENT AREA NO. I
STA. 14+145.86
13.63M LT. (34.7')

END MAINTENANCE AGREEMENT ZONE NO. 2
KELTON ROAD TH #39
STA. 30+015.84 CL
LENGTH 8.3M (27.2')

BEGIN MAINTENANCE AGREEMENT ZONE NO. 2
KELTON ROAD TH #39
STA. 30+007.51 CL

KELTON CURVE
△ = 6°38' 25.9" RT
R = 20.000
T = 11.932
L = 23.197
E = 3.269
BANK = NC

VT 14 CURVE #2
△ = 7°31' 53.0" LT
R = 125.000
T = 8.227
L = 16.431
E = 0.270
BANK = 0.0435

VT 14 CURVE #1
△ = 66° 25' 19.5" RT
R = 125.000
T = 81.832
L = 144.911
E = P L 04
BANK = 0.0435

NEW PARKING CURVE
△ = 35° 11' 36.5" LT
R = 70.000
T = 22.225
L = 43.041
E = 3.444
BANK = 0.0025

KELTON ROAD
TOWN OF EAST MONTPELIER
WASHINGTON ELECTRIC CO-OP, INC.
TOWN OF EAST MONTPELIER (town clerks office)
O'VITT, DAVID P.
LAPERLE. NORMAN A. & CLAIRE
GLORIA A. BIRON-TRUSTEE -LESSOR
OLD BRICK CHURCH-LESSEE
VT ROUTE 14 TO CALAIS
KELTON STA 30+020.000 = NEW PARKING STA 100+000.000 ANGLE = 90°
VT 14 STA 14+139.000 = KELTON STA 30+000.000 ANGLE = 94° 29' 9.24"
30+070.000 END CONSTRUCTION
STATION 14+255.000 END APPROACH
STATION 14+210.000 END PROJECT BEGIN APPROACH
MATCH LINE A-A
MATCH LINE TO ROW SHEET 35 OF 37

SCALE IN METERS 0 10 20 30

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028-3(35)S
FILE NAME: r98b02814.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: R.O.W.
DESIGNED BY: J. GRUCHACZ	CHECKED BY: R.O.W.
R.O.W. LAYOUT SHEET 37 OF 37	SHEET 24 OF 142

GPS CONTROL POINTS

HVCTRL # 1

STANDARD DISK STAMPED DONNELY

N = 198020.4310

E = 502632.3060

ELEV. = 0.0000

DESCRIBED BY VERMONT AGENCY OF TRANSPORTATION 1996 (DJM) GENERAL LOCATION EAST MONTPELIER, VT. 12 MI (19.3 KM) NORTHEAST OF MONTPELIER, 30 MI (48.3 KM) EAST SOUTHEAST OF ST. JOHNSBURY AND 60 MI (96.6 KM) SOUTH OF THE CANADIAN BORDER. TO REACH FROM THE NORTH INTERSECTION OF U.S. ROUTE 2 AND VT ROUTE 14 PROCEED NORTHERLY ALONG ROUTE 14 FOR 1.2 MI (1.9 KM) TO A GRAVEL DRIVE ON THE RIGHT. PROCEED UP THE GRAVEL DRIVE FOR 0.15 MI (0.24 KM) TO A PAVED DRIVE ON THE LEFT AND A YELLOW RANCH WITH A ONE CAR GARAGE. PROCEED UP THE PAVED DRIVE TO THE YELLOW RANCH. THE MARK IS 28.8 M (94.5 FT) NORTH NORTHEAST OF AN IRON PIPE SEPERATING THE TWO ADJACENT PROPERTIES, 26.5 M (86.9 FT) NORTHWEST OF THE SOUTHWEST CORNER OF THE ADJACENT WHITE RANCH, 24.7 M (81.0 FT) WEST OF THE NORTHWEST CORNER OF THE ADJACENT WHITE RANCH, 20.2 M (66.3 FT) EAST NORTHEAST OF THE SOUTHEAST CORNER OF THE YELLOW GARAGE, AND 13.0 M (42.7 FT) EAST OF THE NORTHEAST CORNER OF THE YELLOW GARAGE.

HVCTRL # 2

STANDARD DISK STAMPED BANEFIELD

N = 194969.1220

E = 501909.7630

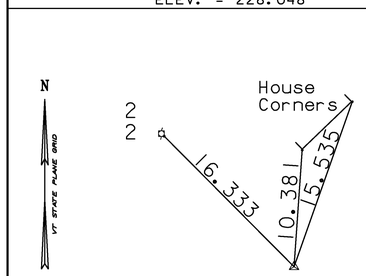
ELEV. = 0.0000

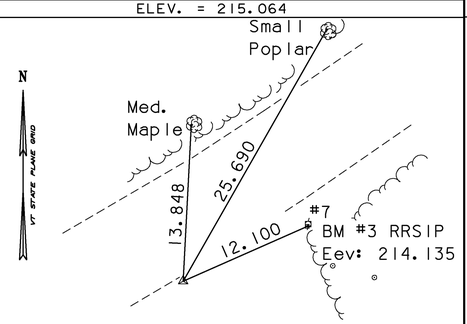
DESCRIBED BY VERMONT AGENCY OF TRANSPORTATION 1996 (DJM) GENERAL LOCATION - THE STATION IS LOCATED IN THE TOWN EAST MONTPELIER, 1.2 MI (1.9 KM) SOUTHEAST OF EAST MONTPELIER VILLAGE, 4.0 MI (6.4 KM) NORTH OF BARRE, AND 5.2 MI (8.4 KM) EAST OF THE CITY OF MONTPELIER.
TO REACH FROM THE JUNCTION OF U.S. ROUTE 2 AND VERMONT ROUTE 14 SOUTH IN THE VILLAGE OF EAST MONTPELIER PROCEED SOUTH ON ROUTE 14 FOR 1.2 MI (1.9 KM) TO A DIRT ROAD ON THE LEFT. TURN LEFT ONTO DIRT ROAD AND CONTINUE FOR 0.55 MI (0.89 KM) TO A T-INTERSECTION WITH THE ROAD, TURN LEFT AT INTERSECTION (COUNTRY CLUB ROAD) AND CONTINUE FOR 0.35 MI (0.56 KM) TO A POINT WHERE THE MAIN DIRT ROAD TURNS SHARPLY RIGHT, FROM THIS POINT TURN SHARPLY LEFT ON A LESSER DIRT ROAD FOR 0.05 MI (0.08 KM) TO A DIRT DRIVE RIGHT, TURN RIGHT ONTO DRIVE, TO A TWO STORY HOUSE, AND THE SITE OF THE MARK. THE MARK IS LOCATED ON THE NORTHEAST SIDE OF THE HOUSE. THE MARK IS A STATE OF VERMONT SURVEY DISK SET IN THE TOP OF A 6X6 INCH SQUARE CONCRETE MONUMENT, FLUSH WITH THE GROUND SURFACE. IT IS LOCATED 62.5 FT (19.1 M) NORTH OF THE NORTHEAST CORNER OF HOUSE / ATTACHED GARAGE, 54 FT (16.5 M) NORTHEAST OF A QUADRUPLE WHITE BIRCH, 45.5 FT (13.9 M) NORTHWEST OF A 36 INCH OAK TREE, 17.5 FT (5.3 M) EAST OF THE SOUTHEAST CORNER OF A LARGE EXPOSED BOULDER, 10 FT (3.0 M) NORTHEAST OF THE SOUTHEAST CORNER OF A FLOWER BED, AND 0.8 FT (24.4 CM) SOUTH OF A FIBERGLASS WITNESS POST. OWNERSHIP IS MR. AND MRS. EDWARD BANFIELD.

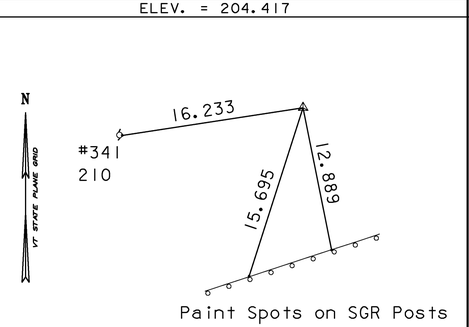
* DESCRIPTION PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT

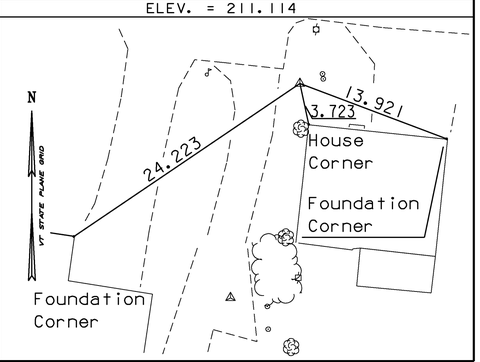
TRAVERSE TIES

4	5	6	7
N = 196834.5351	N = 196965.6297	N = 196836.2957	N = 196777.6186
E = 501005.4125	E = 501256.2980	E = 501353.8399	E = 501184.5006
ELEV. = 228.048	ELEV. = 215.064	ELEV. = 204.417	ELEV. = 211.114









* MAIN TRAVERSE COMPLETED Sept. 24, 1998 R. Gilman P.C. T. Companion

ALIGNMENT TIES

DATUM

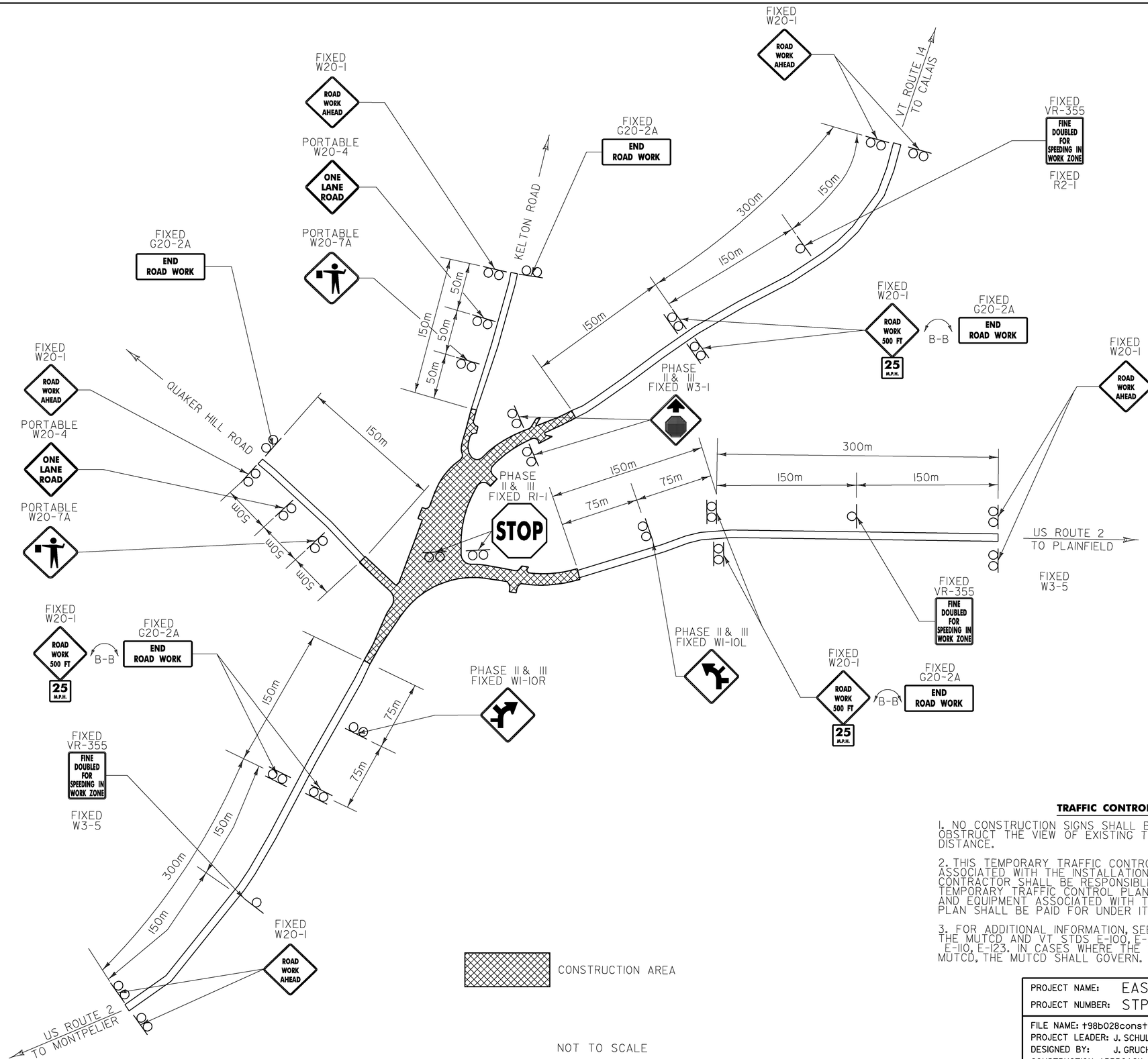
VERTICAL NAVD 88
HORIZONTAL NAD 83(92)
ADJUSTMENT Compass

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028frm.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TIE SHEET

PLOT DATE: 22-MAR-2010
DRAWN BY: R. BULLOCK
CHECKED BY: P. HODGE
SHEET 25 OF 142

VTrans Metric



NOT TO SCALE

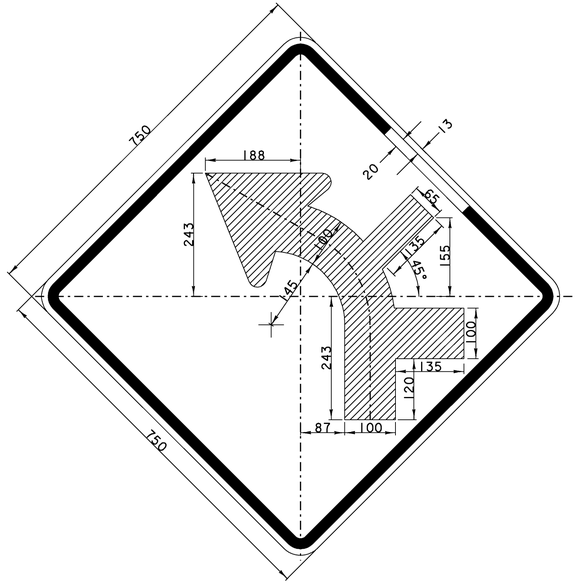
TRAFFIC CONTROL GENERAL NOTES

1. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC DEVICES AND STOPPING SIGHT DISTANCE.

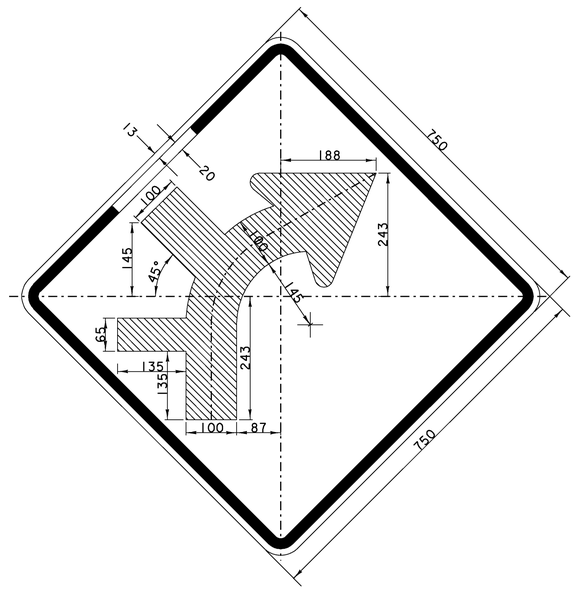
2. THIS TEMPORARY TRAFFIC CONTROL SIGN SHEET COVERS WORK ASSOCIATED WITH THE INSTALLATION OF THE TRAFFIC SIGNAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SEPARATE TEMPORARY TRAFFIC CONTROL PLAN FOR ALL OTHER WORK. ALL WORK AND EQUIPMENT ASSOCIATED WITH THIS TEMPORARY TRAFFIC CONTROL PLAN SHALL BE PAID FOR UNDER ITEM 641.10 - TRAFFIC CONTROL.

3. FOR ADDITIONAL INFORMATION, SEE THE MOST CURRENT EDITION OF THE MUTCD AND VT STDS E-100, E-100A, E-101, E-102, E-106, E-107, E-107A, E-110, E-123. IN CASES WHERE THE STANDARDS CONFLICT WITH THE MUTCD, THE MUTCD SHALL GOVERN.

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028constructionsigns.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
CONSTRUCTION APPROACH SIGNS SHEET	SHEET 26 OF 142



WI-IOL (MOD)

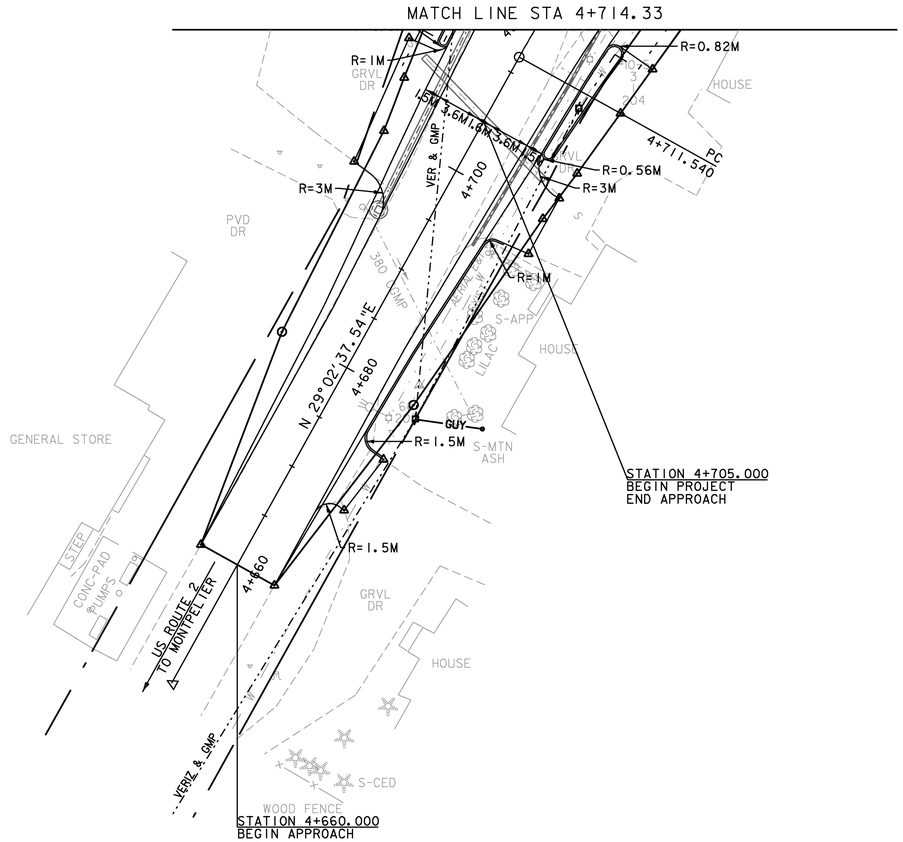


WI-IOR (MOD)

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028constructionsigns.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
CONSTRUCTION SIGNS DETAIL SHEET	SHEET 27 OF 142

N

VT STATE PLANE GRID



210.10 COLD PLANING BITUMINOUS PAVEMENT
STA 4+660.00 - 4+674.50

616.21 VERTICAL GRANITE CURB
STA 4+674.49 RT - 4+696.44 RT
STA 4+704.72 RT - 4+717.10 RT (ISLAND)
STA 4+709.00 LT - 4+710.63 LT (ISLAND)

620.55 REMOVAL OF EXISTING FENCE
STA 4+694.96 RT - 4+695.03 RT

900.675 SPECIAL PROVISION
(HAND PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)
STA 4+660.00 LT - 4+692.00 LT (PAVED DRIVE APRON)
STA 4+672.00 RT (6.1M - PAVED)
STA 4+699.00 RT (5.8M - PAVED)
STA 4+702.00 LT (12.0M - PAVED)

0 10 20 30
SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028bdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
LAYOUT SHEET 1	SHEET 28 OF 142

210.10 COLD PLANING BITUMINOUS PAVEMENT
STA 40+052.75 - 40+060.00

203.28 EXCAVATION OF SURFACES AND PAVEMENTS
STA 100+082.36 RT - 100+157.58 RT
STA 100+091.40 LT - 100+155.08 RT

616.20 GRANITE SLOPED EDGING
STA 4+780.10 LT - 14+037.50 LT

616.21 VERTICAL GRANITE CURB
STA 4+710.63 LT - 40+015.38 LT (ISLAND)
STA 4+731.70 RT - 4+752.80 RT (ISLAND)
STA 4+752.80 RT - 4+810.90 RT
STA 4+812.40 RT - 4+854.94 RT
STA 4+813.80 LT - 4+861.80 LT
STA 14+037.50 RT - 4+812.30 LT
STA 14+039.00 LT - 14+042.00 LT
STA 14+039.00 RT - 14+044.90 RT
STA 40+023.40 RT - 4+780.10 LT
STA 100+082.37 RT - 100+098.30 RT
STA 100+099.80 RT - 100+103.80 RT

618.10 PORTLAND CEMENT CONCRETE SIDEWALK, 125MM
STA 40+014.54 RT - 14+039.00 LT
STA 14+039.00 RT - 4+813.80 LT
STA 4+810.90 RT - 4+856.61 RT
STA 100+082.37 RT - 100+156.58 RT

CONSTRUCT SIDEWALK RAMP WITH
618.30 DETECTABLE WARNING SURFACE
STA 4+811.65 RT - TYPE 6
STA 4+813.07 LT - TYPE 1
STA 4+854.64 RT - TYPE 1
STA 14+038.25 LT - TYPE 1
STA 14+038.25 RT - TYPE 1
STA 100+082.67 RT - TYPE 1
STA 100+099.05 RT - TYPE 6

900.675 SPECIAL PROVISION
(HAND PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)
STA 4+723.00 RT (12.0M - PAVED)
STA 4+863.00 RT (7.3M - PAVED)
STA 4+871.00 LT (7.3M - PAVED)
STA 40+023.00 LT (12.0M - PAVED)
STA 100+076.00 RT (12.5M - PAVED)

CONSTRUCT MOUNTABLE APRON
STA 4+780.10 LT - 14+037.50 LT (PAVED)

MATCH LINE STA 100+67.63

MATCH LINE STA 14+093.85

MATCH LINE STA 4+714.33

MATCH LINE STA 4+872.87

US 2 CURVE #1
△ = 69°30' 40.8" RT
R = 100.000
T = 69.387
L = 121.320
E = 21.715
BANK = 0.0475

US 2 STA 4+737.500 =
QUAKER STA 40+000.000
ANGLE = 89°16'9.12"

US 2 STA 4+800.000 =
VT 14 STA 14+026.000
ANGLE = 99°21'43.56"

40+060.000
END CONSTRUCTION

POB
40+000.000

POB
14+026.000

PC
14+053.704

PT
4+832.860

N 20°48'19.82"W
100+120.927

N 46°48'46.53"W

N 0°54'36.70"W

S 81°26'41.69"E

N
VT STATE PLANE GRID

0 10 20 30
SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028-3(35)S
FILE NAME: t98b028bdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
LAYOUT SHEET 2	SHEET 29 OF 142

VAOT Metric

N

VT STATE PLANE GRID

S-SPR

S-BAL

STATION 4+885.000
END PROJECT
BEGIN APPROACH

US 2 CURVE #2
△ = 22° 22' 36.5" LT
R = 125.000
T = 24.724
L = 48.819
E = 2.422
BANK = 0.060

BARN

WELL

GRVL DR

PC 4+872.252

MATCH LINE STA 4+872.87

M-ELD

PT 4+921.071

#1-02 209.8

S-ELD

S-ELD

M-APP

SHED #1

S-ELD

AERIAL E&T

AERIAL E&T

R=3M

1.5M

3.6M

1.2M

3.6M

1.5M

4+880

4+900

4+920

4+940

4+960

4+980

5+000

N 76° 10' 41.77" E

US ROUTE 2
TO PLAINFIELD

STATION 4+930.000
END APPROACH

PI 4+896.976

GRVL DR

GRVL DR

HOUSE

HOUSE

610" CCMP

RIPARIAN BUFFER

SODOM BROOK

HVCTRL 6

202.10 DEMOLITION AND DISPOSAL OF BUILDING
STA 4+884.50 LT (SHED - #1)

210.10 COLD PLANING BITUMINOUS PAVEMENT
STA 4+915.00 - 4+930.00

616.21 VERTICAL GRANITE CURB
STA 4+877.00 LT - 4+930.00 LT

401.10 AGGREGATE SURFACE COURSE
STA 4+874.55 RT - 4+914.91 RT (GRAVEL DRIVE APRON)

621.21 HD STEEL BEAM GUARDRAIL, GALVANIZED
STA 4+947.24 LT - 4+985.32 LT

621.51 MANUFACTURED TERMINAL SECTION, TANGENT
STA 4+932.00 LT - 4+947.24 LT

621.80 REMOVAL AND DISPOSAL OF GUARDRAIL
STA 4+977.76 LT - 4+985.32 LT

0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028-3(35)S

FILE NAME: t98b028bdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
LAYOUT SHEET 3

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 30 OF 142

N

VT STATE PLANE GRID

210.10 COLD PLANING, BITUMINOUS PAVEMENT
STA 14+240.50 - 14+255.00

203.28 EXCAVATION OF SURFACES AND PAVEMENTS
STA 14+093.41 LT - 14+136.70 LT
STA 14+143.52 LT - 14+177.43 LT
STA 100+019.55 RT - 30+032.38 LT

401.10 AGGREGATE SURFACE COURSE
STA 14+201.00 LT (4.8M - GRAVEL DRIVE)
STA 30+053.00 RT (7.0M - GRAVEL DRIVE)
STA 30+060.00 - 30+070.00 (KELTON ROAD)

900.675 SPECIAL PROVISION
(HAND PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)
STA 14+137.00 RT (10.5M - PAVED)
STA 14+217.00 RT (9.1M - PAVED)

KELTON CURVE
△ = 6°38' 25.9" RT
R = 20.000
T = 11.932
L = 21.517
E = 3.289
BANK = NC

VT 14 CURVE #2
△ = 7°31' 53.0" LT
R = 125.000
T = 8.227
L = 16.431
E = 0.270
BANK = 0.0435

NEW PARKING CURVE
△ = 35° 11' 36.5" LT
R = 70.000
T = 22.225
L = 43.041
E = 3.444
BANK = 0.0025

VT 14 CURVE #1
△ = 66° 25' 19.5" RT
R = 125.000
T = 81.832
L = 144.911
E = 24.404
BANK = 0.0435

30+070.000
END CONSTRUCTION

KELTON ROAD

EAST MONTPELIER TOWN OFFICES

PI
30+027.268

KELTON STA 30+020.000 =
NEW PARKING STA 100+000.000
ANGLE = 90°

PI
14+135.536

PI
100+028.984

6" PVC SLEEVE FOR WEC

INV. = 215.447

8.0 M

19.6 M

INV. = 214.107

25.0 M

17.6 M

VT 14 STA 14+139.000 =
KELTON STA 30+000.000
ANGLE = 94°29' 9.24"

N 14° 18' 52.68" E

N 47° 19' 53.18" E

N 65° 30' 42.83" E

VT ROUTE 14
TO CALAIS

PC
14+242.602

PI
14+250.829

STATION 14+255.000
END APPROACH

STATION 14+210.000
END PROJECT
BEGIN APPROACH

POB
30+000.000

PC
100+001.808

PT
100+049.800

PT
30+036.853

PC
30+015.336

PT
14+198.614

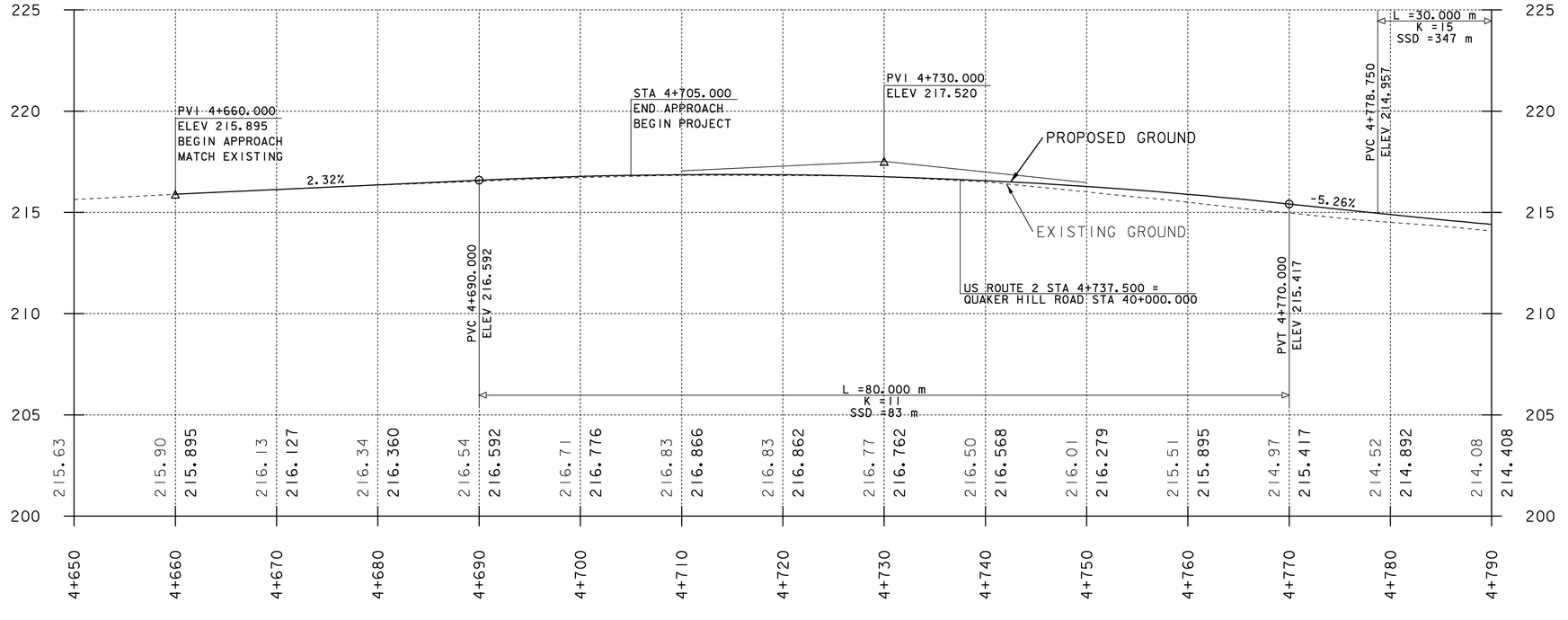
MATCH LINE STA 100+67.63

MATCH LINE STA 14+093.85

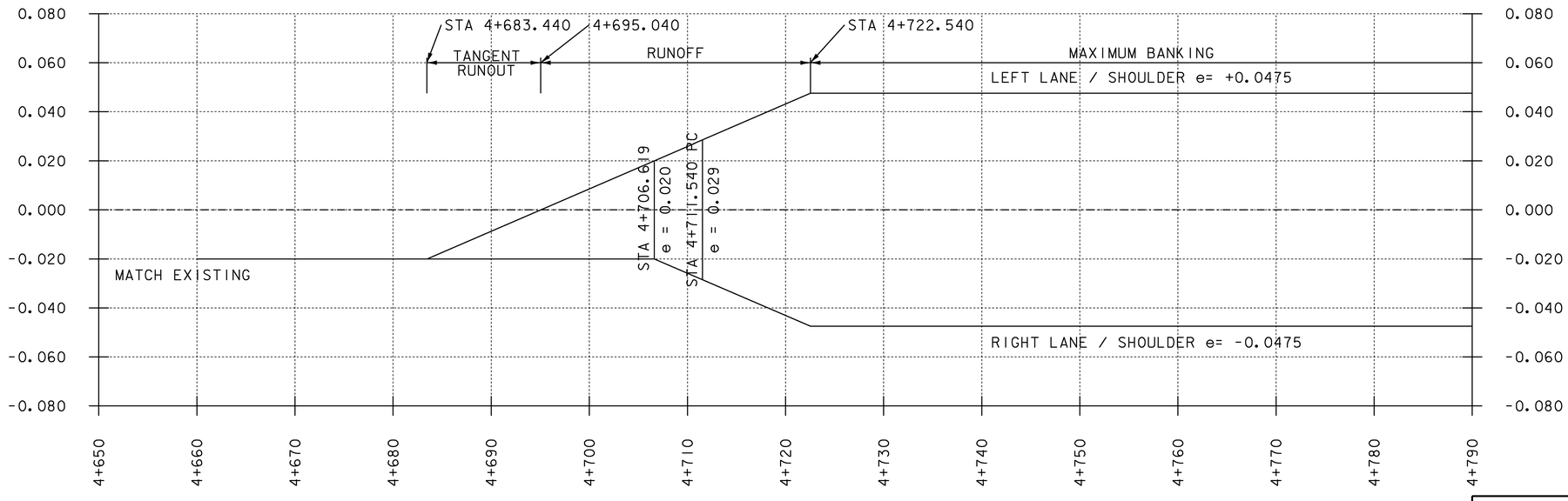
0 10 20 30

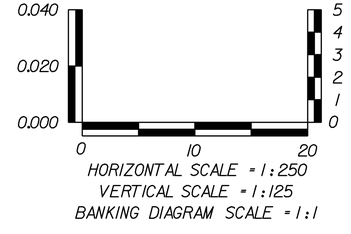
SCALE IN METERS 1:250

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028-3(35)S
FILE NAME: t98b028bdr.dgn	PLOT DATE: 29-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
LAYOUT SHEET 4	SHEET 31 OF 142



US ROUTE 2 PROFILE

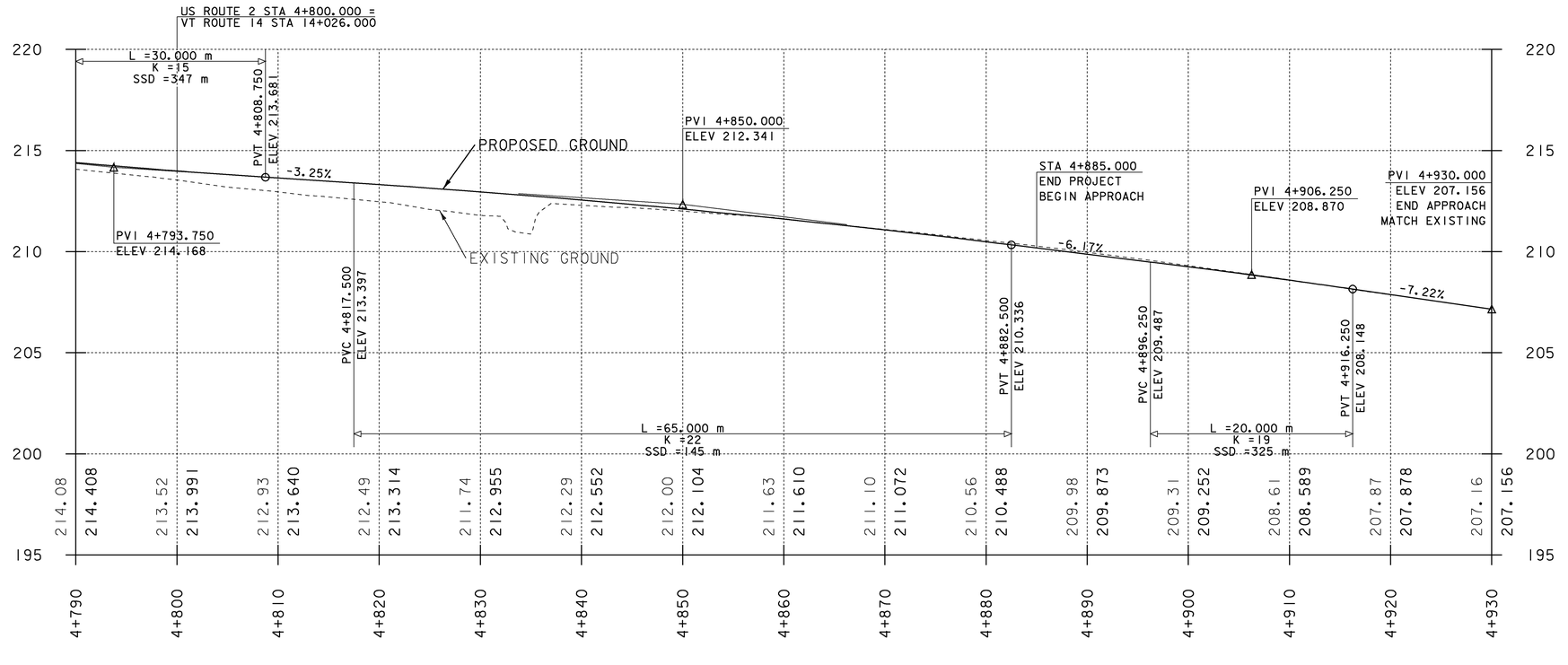




US ROUTE 2 BANKING DIAGRAM

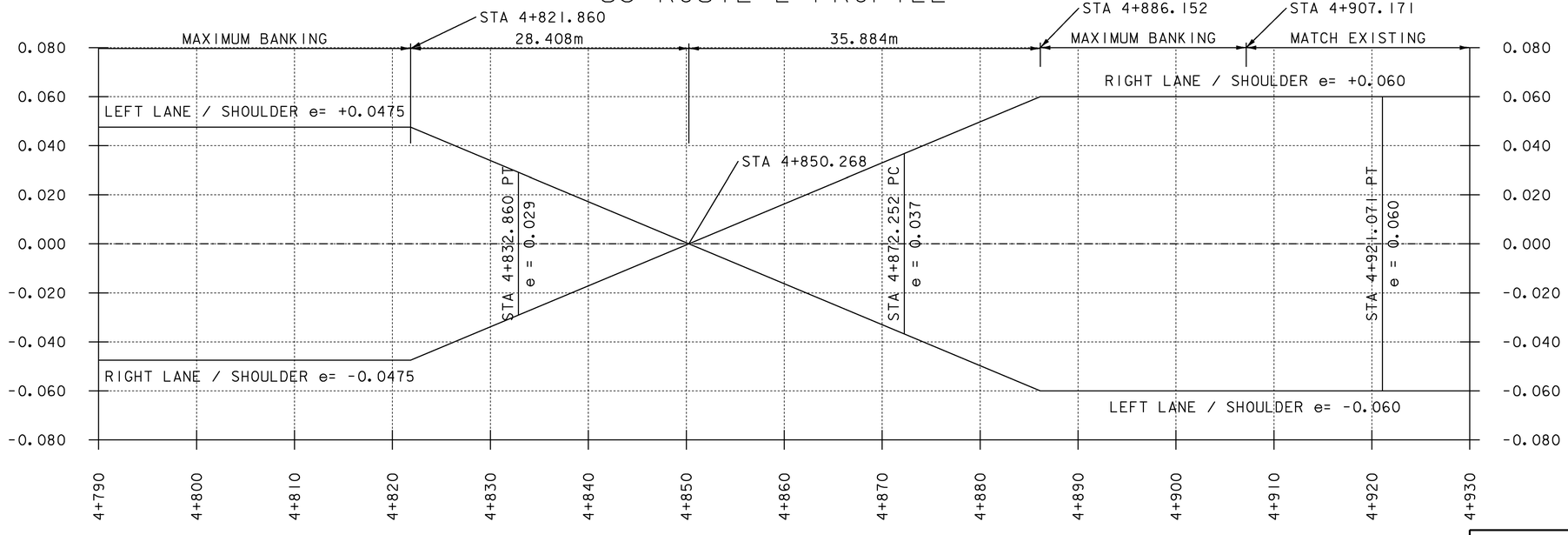
THE ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE THE OLD GROUND ALONG REVISED CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST THOUSANDTH ARE THE PROPOSED FINISHED GRADE ALONG REVISED CENTERLINE.

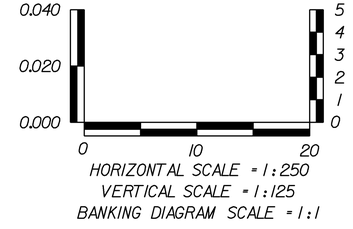
PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028profile.dgn	PLOT DATE: 29-MAR-2010
PROJECT LEADER: J.SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
US ROUTE 2 PROFILE SHEET 1	SHEET 32 OF 142



THE ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE THE OLD GROUND ALONG REVISED CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST THOUSANDTH ARE THE PROPOSED FINISHED GRADE ALONG REVISED CENTERLINE.

US ROUTE 2 PROFILE



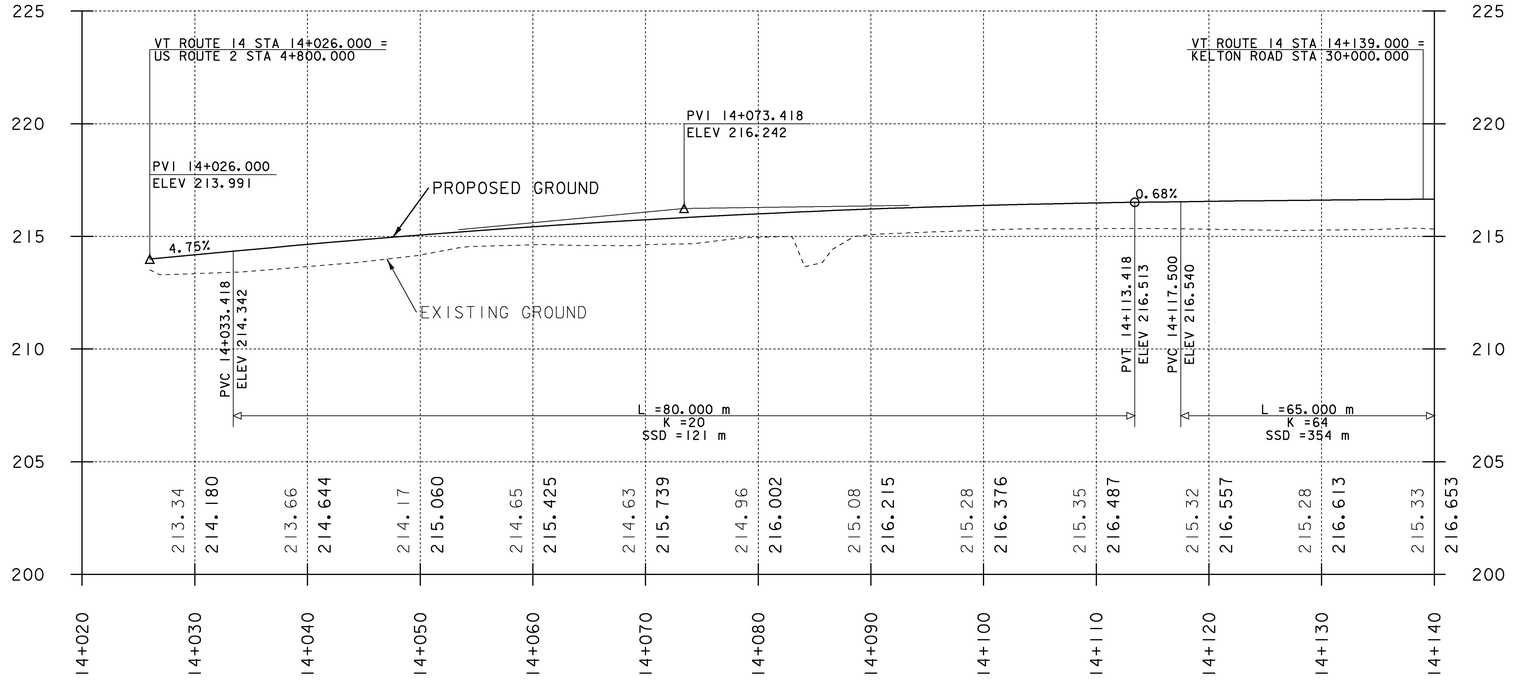


US ROUTE 2 BANKING DIAGRAM

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

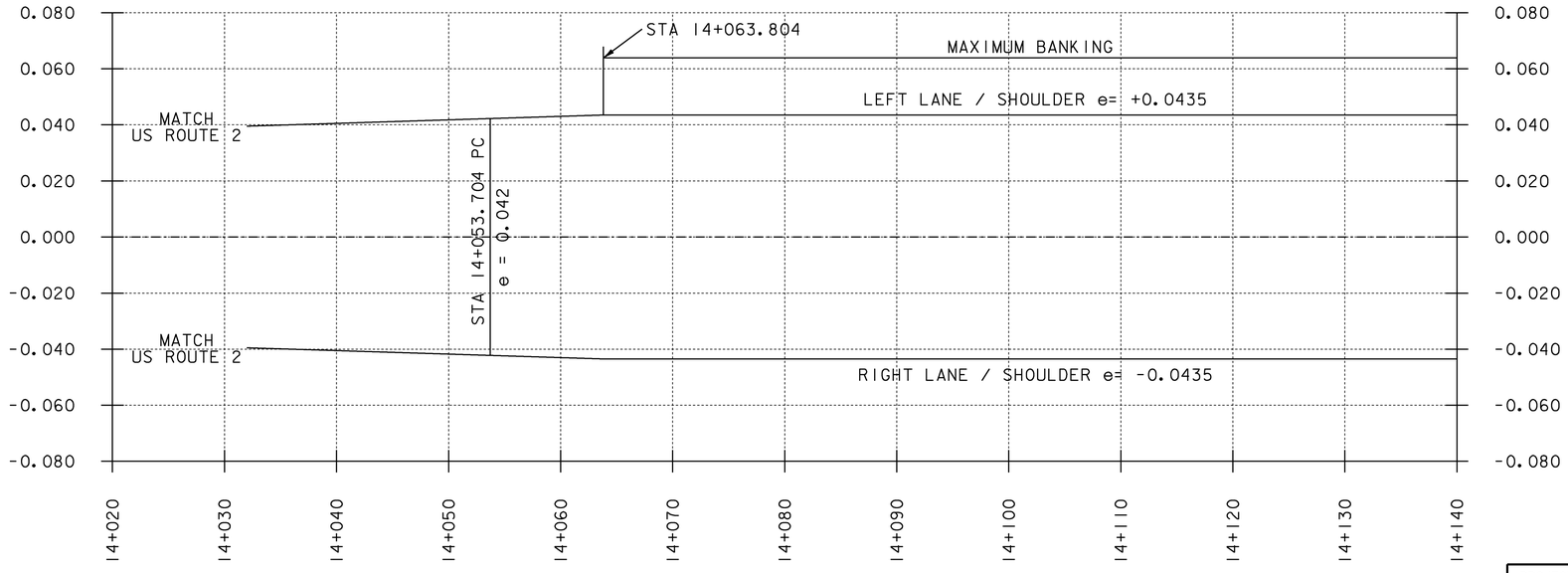
FILE NAME: t98b028profile.dgn
PROJECT LEADER: J.SCHULTZ
DESIGNED BY: J. GRUCHACZ
US ROUTE 2 PROFILE SHEET 2

PLOT DATE: 29-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 33 OF 142

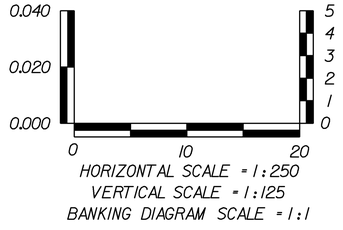


VT ROUTE 14 PROFILE

THE ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE THE OLD GROUND ALONG REVISED CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST THOUSANDTH ARE THE PROPOSED FINISHED GRADE ALONG REVISED CENTERLINE.



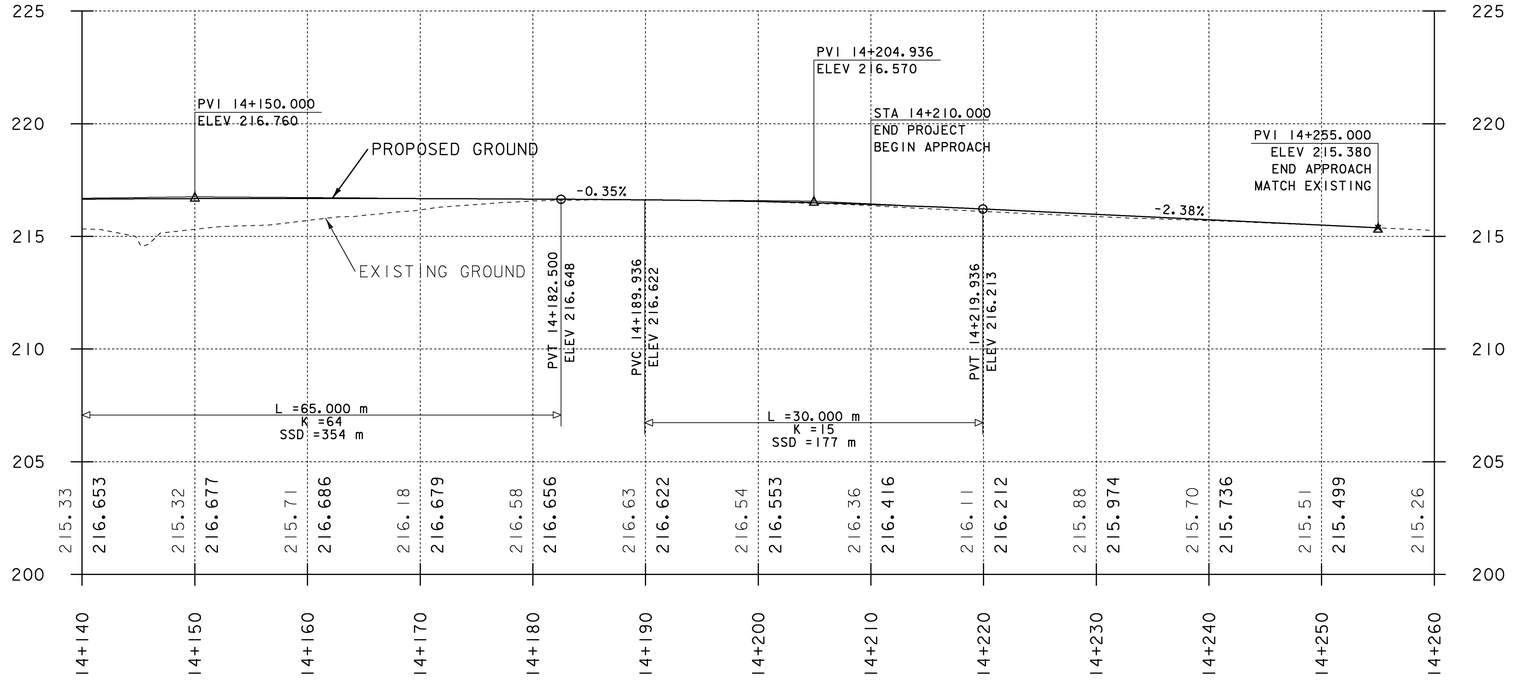
VT ROUTE 14 BANKING DIAGRAM



HORIZONTAL SCALE = 1:250
VERTICAL SCALE = 1:125
BANKING DIAGRAM SCALE = 1:1

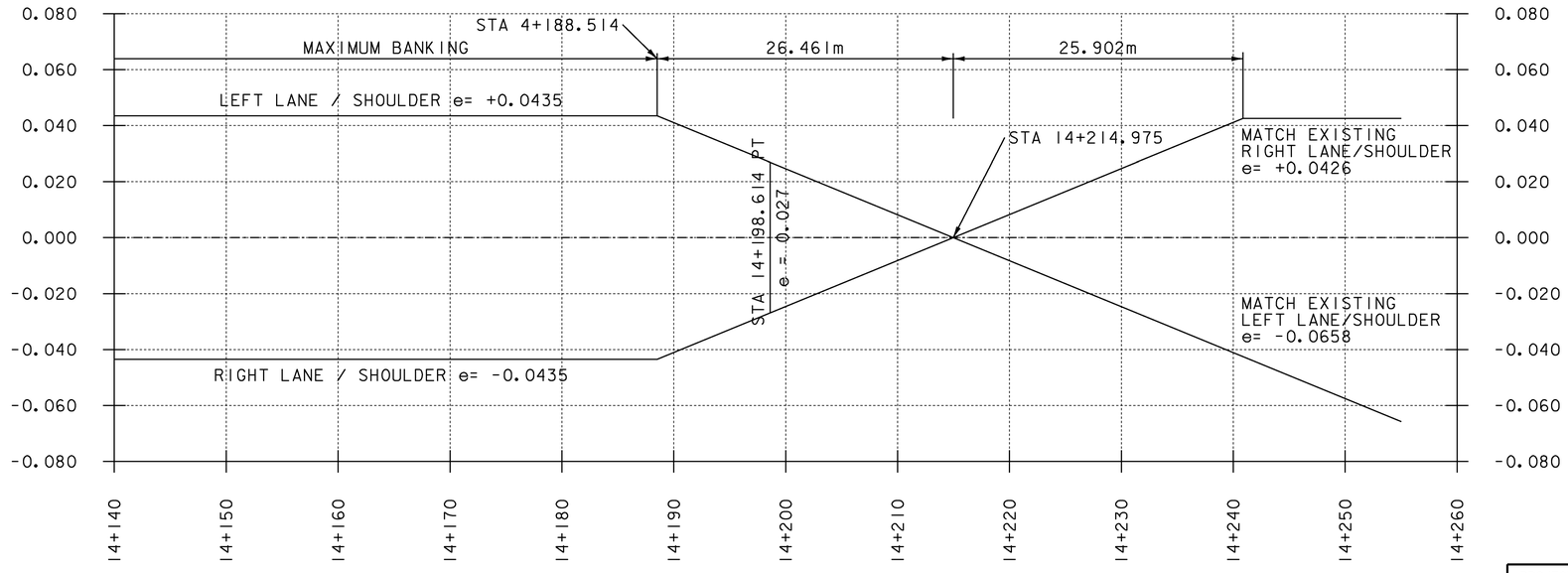
PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028profile.dgn	PLOT DATE: 29-MAR-2010
PROJECT LEADER: J.SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
VT ROUTE 14 PROFILE SHEET 1	SHEET 34 OF 142

Metric

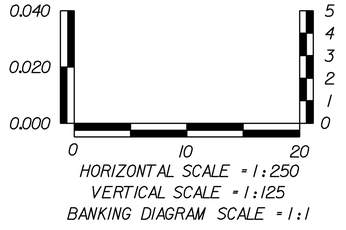


VT ROUTE 14 PROFILE

THE ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE THE OLD GROUND ALONG REVISED CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST THOUSANDTH ARE THE PROPOSED FINISHED GRADE ALONG REVISED CENTERLINE.



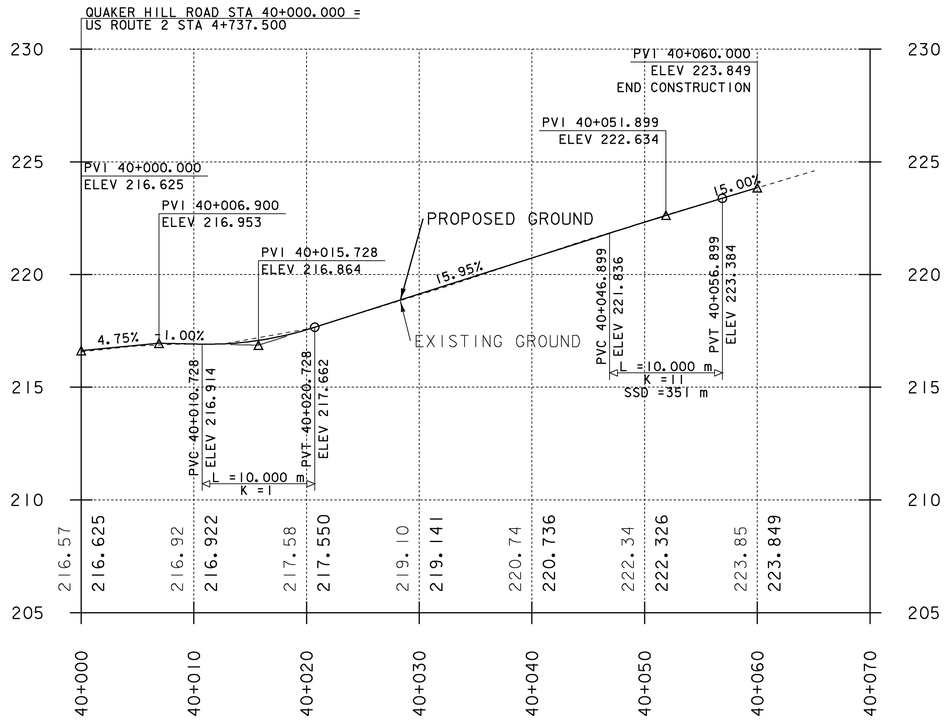
VT ROUTE 14 BANKING DIAGRAM



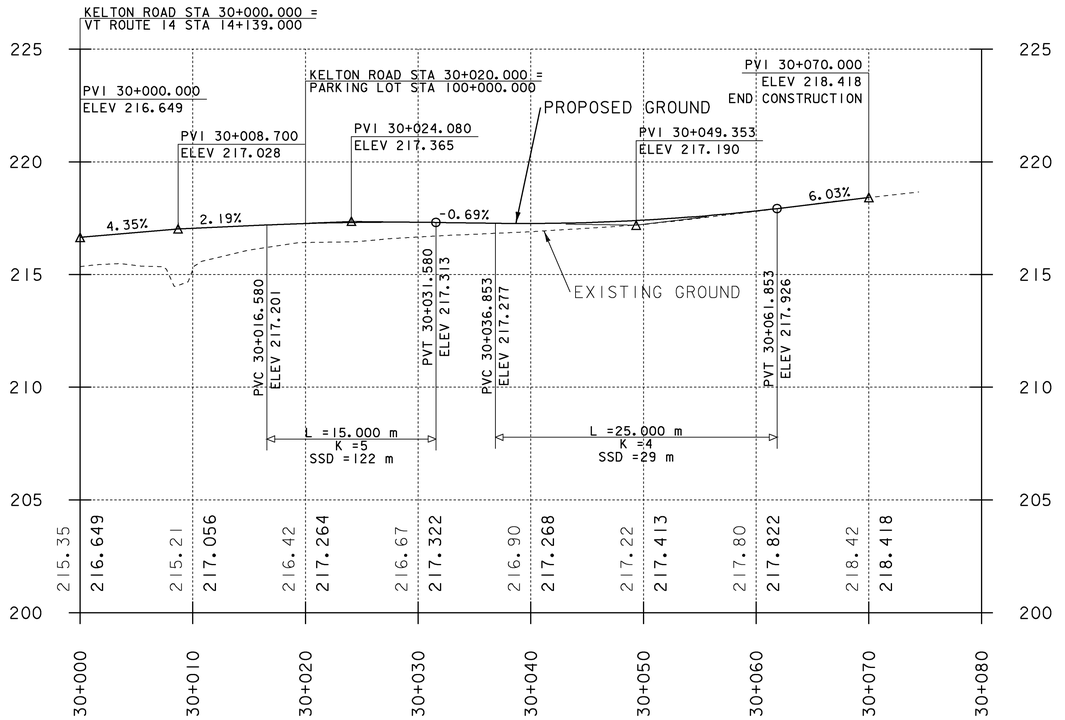
HORIZONTAL SCALE = 1:250
VERTICAL SCALE = 1:125
BANKING DIAGRAM SCALE = 1:1

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S

FILE NAME: t98b028profile.dgn	PLOT DATE: 29-MAR-2010
PROJECT LEADER: J.SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
VT ROUTE 14 PROFILE SHEET 2	SHEET 35 OF 142

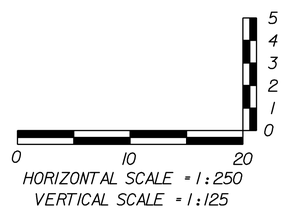


QUAKER HILL ROAD PROFILE

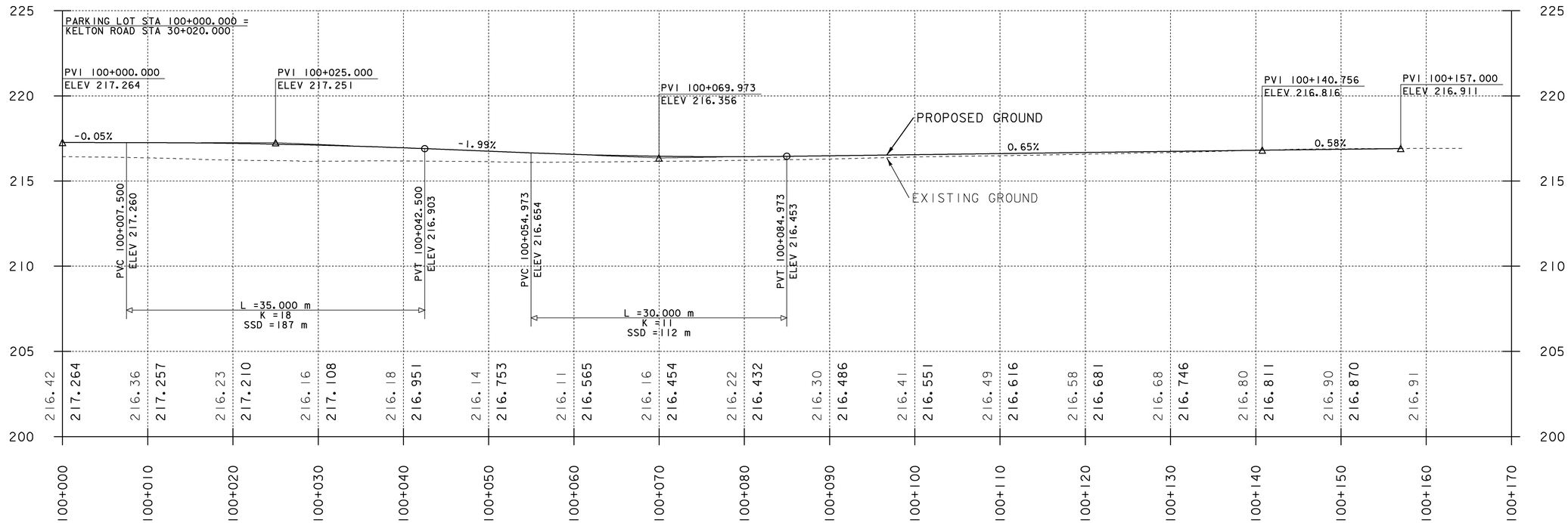


KELTON ROAD PROFILE

THE ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE THE OLD GROUND ALONG REVISED CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST THOUSANDTH ARE THE PROPOSED FINISHED GRADE ALONG REVISED CENTERLINE.



PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028profile.dgn	PLOT DATE: 29-MAR-2010
PROJECT LEADER: J.SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
QUAKER HILL & KELTON RD PROFILE SHEET	SHEET 36 OF 142



PARKING LOT PROFILE

THE ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE THE OLD GROUND ALONG REVISED CENTERLINE. THE ELEVATIONS SHOWN TO THE NEAREST THOUSANDTH ARE THE PROPOSED FINISHED GRADE ALONG REVISED CENTERLINE.

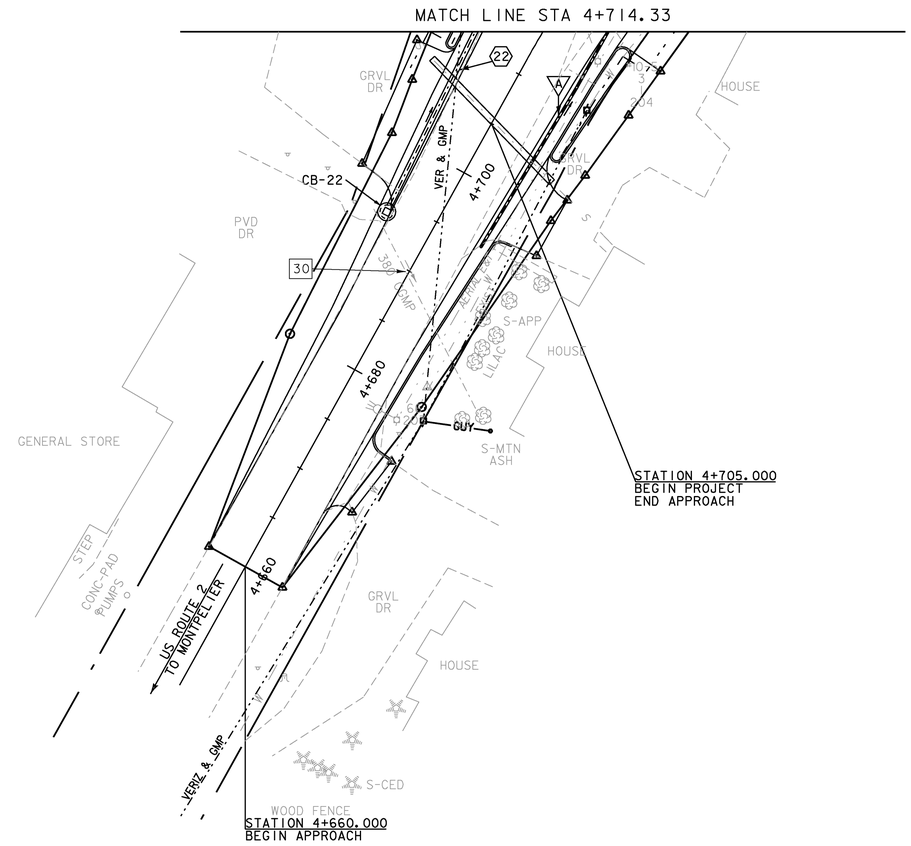
0 10 20

HORIZONTAL SCALE = 1:250
VERTICAL SCALE = 1:125

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028profile.dgn	PLOT DATE: 29-MAR-2010
PROJECT LEADER: J.SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
PARKING LOT PROFILE SHEET	SHEET 37 OF 142

N

VT STATE PLANE GRID



NEW DRAINAGE

22 STA 4+693.66 LT - 4+720.00 LT
NEW 450MM X 26.9M RCP/CPEP(SL)
W/1200MM PRCCB @ STA 4+693.66 LT
W/GRATE TYPE D(1)

EXISTING DRAINAGE

30 STA 4+693.30 LT - 4+681.77 RT
EXISTING 380MM X 20.7M CGMP = REMOVE

605.11 200 MM UNDERDRAIN PIPE

A STA 4+695.00 RT - 4+825.00 RT
NEW 200MM X 123.7M UNDERDRAIN PIPE
W/FLUSHING BASIN @ STA 4+695.00 RT

625.10 SLEEVES FOR UTILITIES (1 X 600MM)

STA. 4+703.05 RT APPROX. - 4+707.48 LT APPROX,
NEW 600MM X 15.3M APPROX. CPEP(SL)

NOTE:
THE EXISTING PRIVATE SEWER LINE DEPICTED AT APPROXIMATE STATION 4+700.75 RT - 4+711.00 LT IS FOR REFERENCE ONLY. SEWER LINE LOCATION, DEPTH, AND MATERIAL IS UNKNOWN. THE SELECTED CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN THE GENERAL VICINITY OF THIS SEWER LINE AND SHALL INSTALL A 600MM CPEP(SL) SLEEVE ADJACENT TO THE EXISTING LINE FOR FUTURE USE. WORK SHALL BE IN ACCORDANCE WITH, AND PAYMENT MADE UNDER 625.10 SLEEVES FOR UTILITIES (1 X 600MM). ALL WORK AS DESCRIBED SHALL OCCUR WITHIN THE STATE OF VERMONT OWNED RIGHT-OF-WAY.

0 10 20 30

SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028-3(35)S
FILE NAME: t98b028bdr.dgn	PLOT DATE: 29-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
DRAINAGE LAYOUT SHEET 1	SHEET 38 OF 142

VAOT Metric

NEW DRAINAGE

1. STA 40+030.43 LT - 40+011.08 LT
NEW 450MM X 19.5M RCP/CPEP(SL)
W/1200MM PRCCB @ STA 40+030.43 LT
W/GRATE TYPE D(1)

2. STA 40+011.08 LT - 40+011.11 RT
NEW 450MM X 11.8M RCP/CPEP(SL)
W/1200MM PRCCB @ STA 40+011.08 LT
W/GRATE TYPE D(1)

3. STA 40+011.11 RT - 4+785.30 LT
NEW 450MM X 47.9M RCP/CPEP(SL)
W/1200MM PRCCB @ STA 40+011.11 RT
W/GRATE TYPE D(1)

4. STA 4+785.30 LT - 4+818.12 LT
NEW 600MM X 36.9M RCP/CPEP(SL)
W/1200MM PRCCB @ STA 4+785.30 LT
W/GRATE TYPE D(1)

5. STA 4+827.12 LT - 4+863.00 LT
NEW 900MM X 36.6M RCP/CPEP(SL)
W/1800MM PRCCB @ STA 4+827.12 LT
W/GRATE TYPE D(1)

6. STA 4+863.00 LT - 4+900.02 LT
NEW 900MM X 35.8M RCP/CPEP(SL)
W/1800MM PRCCB @ STA 4+863.00 LT
W/GRATE TYPE D(1)

9. STA 14+044.60 RT - 4+827.12 LT
NEW 900MM X 9.1M CPEP
W/REINFORCED CONCRETE HEADWALL
AT INLET

10. STA 4+800.03 RT - 4+800.03 RT
NEW 450MM X 7.2M RCP/CPEP(SL)
W/1500MM PRCCB @ STA 4+800.03 RT
W/GRATE TYPE D(1)

11. STA 4+825.68 RT - 4+824.99 RT
NEW 450MM X 4.8M RCP/CPEP(SL)
W/1200MM PRCCB @ STA 4+825.68 RT
W/GRATE TYPE D(1)

12. STA 4+824.99 RT - 4+827.12 LT
NEW 450MM X 16.3M RCP/CPEP(SL)
W/1200MM PRCCB @ STA 4+824.99 RT
W/GRATE TYPE D(1)

13. STA 14+038.87 RT - 4+818.12 LT
NEW 450MM X 4.1M RCP/CPEP(SL)
W/1200MM PRCCB @ STA 14+038.87 LT
W/GRATE TYPE D(1)

14. STA 4+818.12 LT - 4+827.12 LT
NEW 600MM X 9.9M RCP/CPEP(SL)
W/1800MM PRCCB @ STA 4+818.12 LT
W/GRATE TYPE D(1)

15. STA 14+091.93 LT - 14+076.43 RT
NEW 600MM X 29.3M RCP/CPEP(SL)
W/1800MM PRCCB @ STA 14+091.93 LT
W/GRATE TYPE D(1)

17. STA 100+078.45 RT - 14+091.93 LT
NEW 450MM X 29.8M RCP/CPEP(SL)
W/1200MM PRCCB @ STA 100+078.45 RT
W/GRATE TYPE D(1)

22. STA 4+693.66 LT - 4+720.00 LT
NEW 450MM X 26.9M RCP/CPEP(SL)
W/1200MM PRCCB @ STA 4+693.66 LT
W/GRATE TYPE D(1)

23. STA 4+720.00 LT - 40+011.08 LT
NEW 450MM X 14.1M RCP/CPEP(SL)
W/1200MM PRCCB @ STA 4+720.00 LT
W/GRATE TYPE D(1)

625.10 SLEEVES FOR UTILITIES (1 X 600MM)
STA. 4+753.29 RT - 4+762.81 LT
NEW 600MM X 24.3M CPEP(SL)

629.20 ADJUST ELEVATION OF VALVE BOX
STA 4+712.90 LT
STA 4+752.97 LT
STA 4+753.17 RT

605.11 200MM UNDERDRAIN PIPE
A. STA 4+695.00 RT - 4+825.00 RT
NEW 200MM X 123.7M UNDERDRAIN PIPE
W/FLUSHING BASIN @ 4+695.00 RT

B. STA 4+864.24 LT - 4+898.70 LT
NEW 200MM X 33.6M UNDERDRAIN PIPE

605.21 200MM UNDERDRAIN CARRIER PIPE
C. STA 4+863.00 LT - 4+864.24 LT
NEW 200MM X 3.0M UNDERDRAIN CARRIER PIPE

EXISTING DRAINAGE
31. STA 4+834.49 RT - 4+835.79 RT
EXISTING 610MM X 11.5M CGMP &
HEADWALL = REMOVE HEADWALL & EXISTING PIPE

32. STA 4+835.79 RT - 4+895.89 RT
EXISTING 610MM X 75.5M CGMP & DI =
REMOVE DI AND BACKFILL EXISTING PIPE INLET

33. STA 100+089.64 RT - 100+078.43 RT
EXISTING 380MM X 15.2M CGMP & DI = RETAIN

34. STA 100+078.19 RT - 100+079.03 LT
EXISTING 380MM X 15.3M CGMP & DI=
REMOVE DI AND REMOVE EXISTING PIPE

NEW STORMWATER TREATMENT PRACTICE
GC-1B GRASS CHANNEL 1-B
STA 14+091.00 LT - 14+045.00 LT

GC-1C GRASS CHANNEL 1-C
STA 14+071.00 RT - 14+040.00 RT

SEE SHEET 5 FOR GRASS CHANNEL DETAILS

900.640 SPECIAL PROVISION
(150MM UNDERDRAIN PIPE, DRY SWALE)
STA 4+800.00 RT - 4+825.00 RT

DS-1D NEW STORMWATER TREATMENT DRY SWALE 1-D
NEW 150MM X 23.5M UNDERDRAIN PIPE
W/FLUSHING BASIN @ STA 4+797.82 RT

SEE SHEET 47 FOR DRY SWALE DETAILS

MATCH LINE STA 100+67.63

MATCH LINE STA 14+093.85

MATCH LINE STA 4+714.33

MATCH LINE STA 4+872.87

N

VT STATE PLANE GRID

0 10 20 30

SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028-3(35)S
FILE NAME: t98b028bdr.dgn	PLOT DATE: 29-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
DRAINAGE LAYOUT SHEET 2	SHEET 39 OF 142

VAOT Metric

N

VT STATE PLANE GRID

S-SPR

S-BAL

SODOM BROOK

RIPARIAN BUFFER

HVCTRL 6

STATION 4+885.000
END PROJECT
BEGIN APPROACH

BARN

WELL

GRVL DR

M-ELD

#I-02
209.Ø

S-ELD

S-ELD

S-ELD

M-APP

SHEET B

6

7

AERIAL E&T

AERIAL E&T

AERIAL E&T

CB-7

D

4+880

4+900

4+920

4+940

US ROUTE 2
TO PLAINFIELD

4+960

4+980

5+000

STATION 4+930.000
END APPROACH

MATCH LINE STA 4+872.87

HOUSE

HOUSE

GRVL DR

GRVL DR

610 CCMP

NEW DRAINAGE

6
STA 4+863.00 LT - 4+900.02 LT
NEW 900MM X 35.8M RCP/CPEP(SL)
W/1800MM PRCCB @ STA 4+863.00 LT
W/GRATE TYPE D(I)

7
STA 4+900.02 LT - 4+937.35 LT
NEW 900MM X 36.4M RCP/CPEP(SL)
W/1800MM PRCCB @ STA 4+900.02 LT
W/GRATE TYPE D(I)

605.11 200MM UNDERDRAIN PIPE

B
STA 4+864.24 LT - 4+898.70 LT
NEW 200MM X 33.6M UNDERDRAIN PIPE

605.21 200MM UNDERDRAIN CARRIER PIPE

D
STA 4+898.70 LT - 4+900.02 LT
NEW 200MM X 3.0M UNDERDRAIN CARRIER PIPE

613.11 STONE FILL, TYPE II

STA 4+937.35 LT - 4+975.00 LT
37.6M X 2.44M X 0.61M

0 10 20 30

SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028-3(35)S
FILE NAME: t98b028bdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
DRAINAGE LAYOUT SHEET 3	SHEET 40 OF 142

N

VT STATE PLANE GRID

NEW DRAINAGE

(15) STA 14+091.93 LT - 14+076.43 RT
NEW 600MM X 29.3M RCP/CPEP(SL)
W/1800MM PRCCB @ STA 14+091.93 LT
W/GRATE TYPE D(I)

(16) STA 100+055.52 RT - 14+091.93 LT
NEW 375MM X 22.8M RCP/CPEP(SL)
W/EXISTING DI @ STA 100+055.52 RT

(17) STA 100+078.45 RT - 14+091.93 LT
NEW 450MM X 29.8M RCP/CPEP(SL)
W/1200MM PRCCB @ STA 100+078.45 RT
W/GRATE TYPE D(I)

(18) STA 100+012.63 RT - 14+130.87 LT
NEW 450MM X 16.7M RCP/CPEP(SL)
W/1200MM PRCCB @ STA 100+012.63 RT
W/GRATE TYPE D(I)

(19) STA 14+149.19 LT - 14+130.87 LT
NEW 450MM X 20.6M RCP/CPEP(SL)
W/1200MM PRCCB @ STA 14+149.19 LT
W/GRATE TYPE D(I)

(20) STA 14+149.00 RT - 14+130.87 LT
NEW 450MM X 30.7M RCP/CPEP(SL)
W/1200MM PRCCB @ STA 14+149.00 RT
W/GRATE TYPE D(I)

(21) STA 14+130.87 LT - 14+091.93 LT
NEW 600MM X 43.4M RCP/CPEP(SL)
W/1500MM PRCCB @ STA 14+130.87 LT
W/GRATE TYPE D(I)

EXISTING DRAINAGE

[35] STA 14+145.09 RT - 14+139.57 RT
EXISTING 310MM X 26.5M CGMP = REMOVE

[36] STA 14+139.57 RT - 14+250.24 RT
EXISTING 310MM X 96.2M CGMP = RETAIN

[37] STA 14+148.47 LT - 14+143.45 LT
EXISTING 380MM X 14.2M CGMP = REMOVE

[38] STA 100+012.63 RT - 14+128.19 LT
EXISTING 460MM X 20.3M RCP & DI=
REMOVE EXISTING PIPE AND DI

[39] STA 100+055.52 RT - 100+057.93 LT
EXISTING 380MM X 14.4M CGMP & DI=
RETAIN DI & REMOVE EXISTING PIPE

NEW STORMWATER TREATMENT PRACTICE

[GC-1A] GRASS CHANNEL 1-A
STA 14+205.00 RT - 14+150.00 RT

[GC-1B] GRASS CHANNEL 1-B
STA 14+091.00 LT - 14+045.00 LT

SEE SHEET 5 FOR GRASS CHANNEL DETAILS

629.20 ADJUST ELEVATION OF VALVE BOX
STA 14+177.10 LT
STA 14+193.27 LT
STA 14+193.37 LT

30+070.000
END CONSTRUCTION

KELTON ROAD

EAST MONTPELIER
TOWN OFFICES

STATION 14+255.000
END APPROACH

STATION 14+210.000
END PROJECT
BEGIN APPROACH

MATCH LINE STA 100+67.63

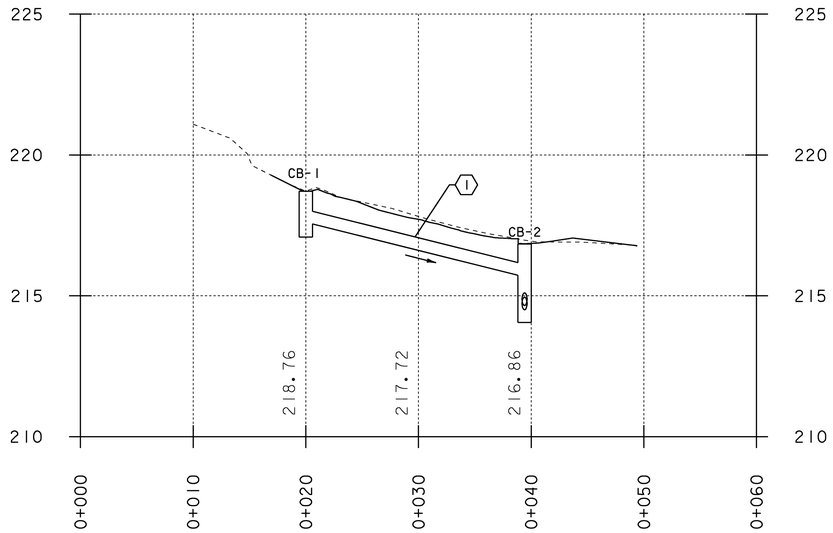
MATCH LINE STA 14+093.85

0 10 20 30

SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028-3(35)S
FILE NAME: t98b028bdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
DRAINAGE LAYOUT SHEET 4	SHEET 41 OF 142

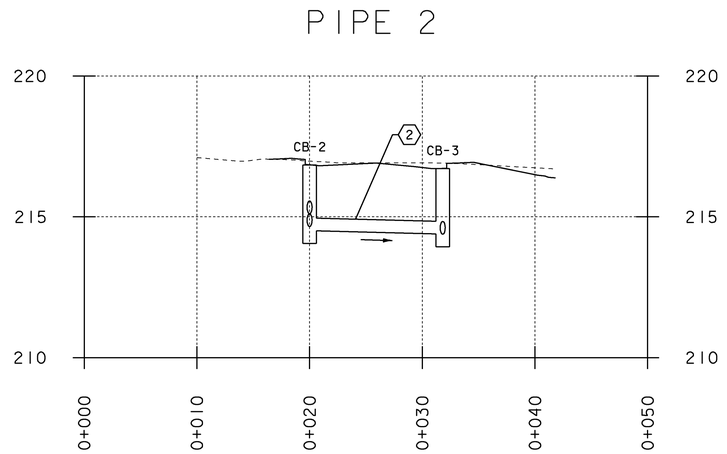
PIPE 1



CB-1
GRATE: TYPE D
RIM EL = 218.71M
DIAM. = 1200MM
DEPTH = 1.62M

(1)
SLOPE = 10.01%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 19.51M
DIAMETER = 450.00MM
INV IN = 217.54M
INV OUT = 215.71M

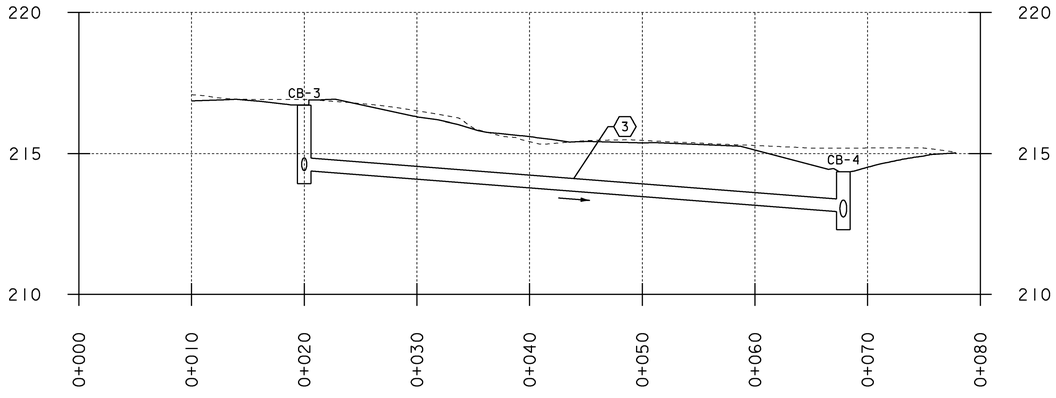
PIPE 2



CB-2
GRATE: TYPE D
RIM EL = 216.84M
DIAM. =1200MM
DEPTH = 2.79M

(2)
SLOPE = 1.00%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 11.82M
DIAMETER = 450.00MM
INV IN = 214.50M
INV OUT = 214.40M

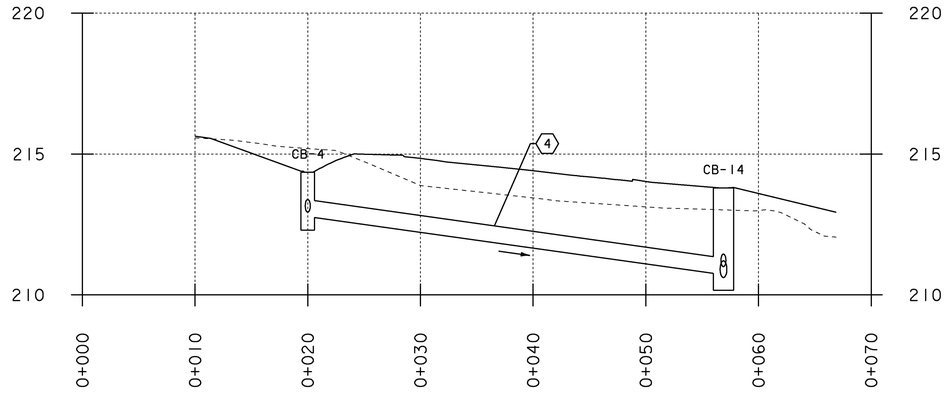
PIPE 3



CB-3
GRATE: TYPE D
RIM EL = 216.71M
DIAM. = 1200MM
DEPTH = 2.78M

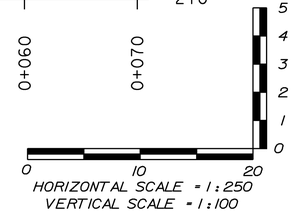
(3)
SLOPE = 3.10%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 47.86M
DIAMETER = 450.00MM
INV IN = 214.39M
INV OUT = 212.94M

PIPE 4



CB-4
GRATE: TYPE D
RIM EL = 214.35M
DIAM. = 1200MM
DEPTH = 2.05M

(4)
SLOPE = 5.62%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 36.95M
DIAMETER = 600.00MM
INV IN = 212.75M
INV OUT = 210.76M



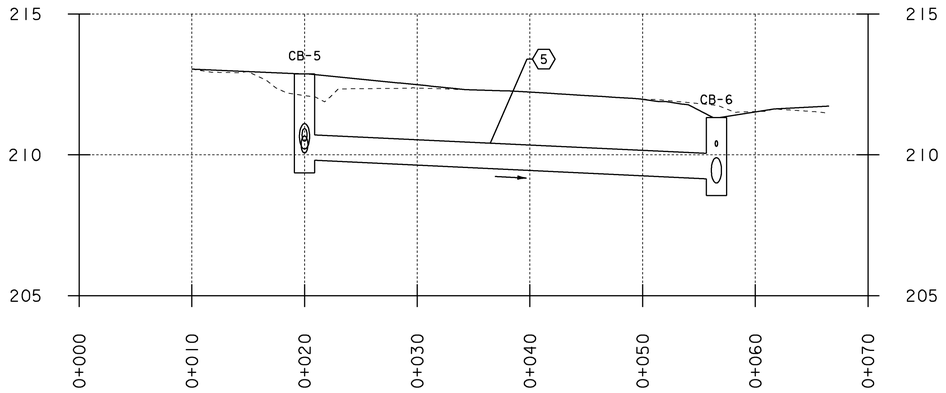
HORIZONTAL SCALE = 1:250
VERTICAL SCALE = 1:100

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028profile.dgn
PROJECT LEADER: J.SCHULTZ
DESIGNED BY: J. GRUCHACZ
DRAINAGE PROFILE SHEET 1

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 42 OF 142

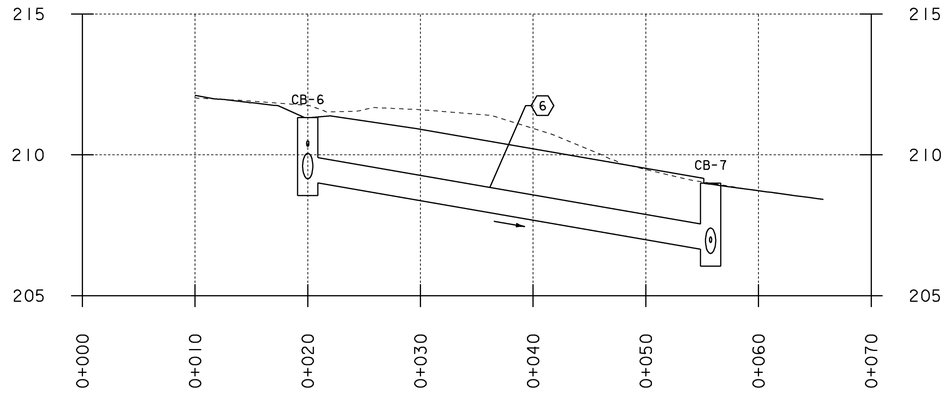
PIPE 5



CB-5
GRATE: TYPE D
RIM EL = 212.88M
DIAM. = 1800MM
DEPTH = 3.52M

(5)
SLOPE = 1.89%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 36.55M
DIAMETER = 900.00MM
INV IN = 209.81M
INV OUT = 209.15M

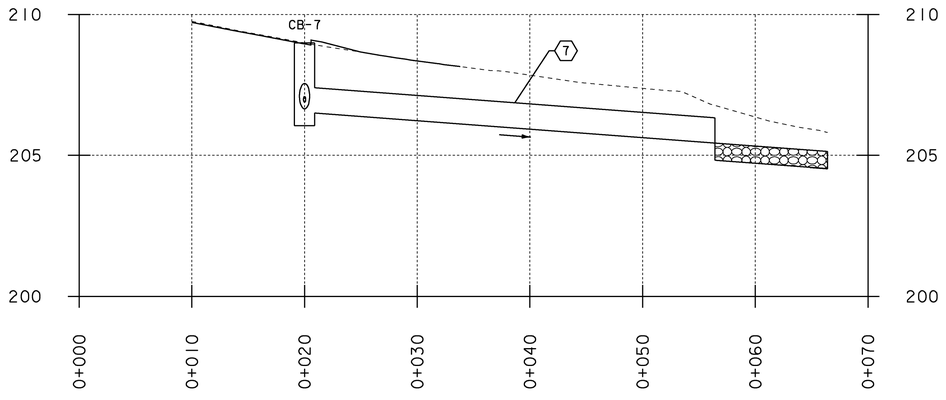
PIPE 6



CB-6
GRATE: TYPE D
RIM EL = 211.32M
DIAM. = 1800MM
DEPTH = 2.77M

(6)
SLOPE = 6.92%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 35.83M
DIAMETER = 900.00MM
INV IN = 209.00M
INV OUT = 206.65M

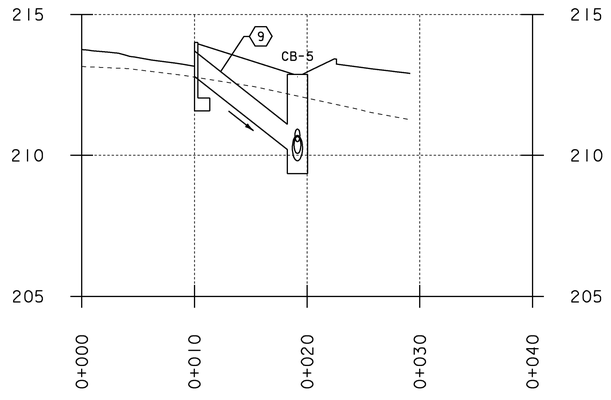
PIPE 7



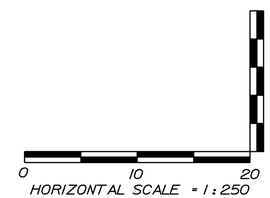
CB-7
GRATE: TYPE D
RIM EL = 208.99M
DIAM. = 1800MM
DEPTH = 2.94M

(7)
SLOPE = 3.00%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 36.43M
DIAMETER = 900.00MM
INV IN = 206.50M
INV OUT = 205.43M

PIPE 9



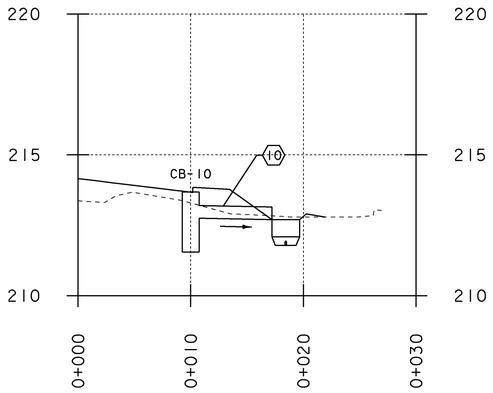
(9)
SLOPE =31.46%
NEW PIPE
TYPE: CPEP PIPE
LENGTH = 9.14M
DIAMETER = 900.00MM
INV IN = 212.80M
INV OUT = 210.21M



HORIZONTAL SCALE = 1:250
VERTICAL SCALE = 1:100

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028profile.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J.SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
DRAINAGE PROFILE SHEET 2	SHEET 43 OF 142

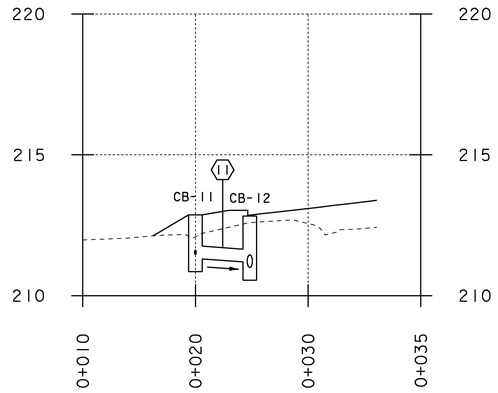
PIPE 10



CB-10
GRATE: TYPE D
RIM EL = 213.68M
DIAM. = 1500MM
DEPTH = 2.13M

10
SLOPE = 0.77%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 7.21M
DIAMETER = 450.00MM
INV IN = 212.75M
INV OUT = 212.70M

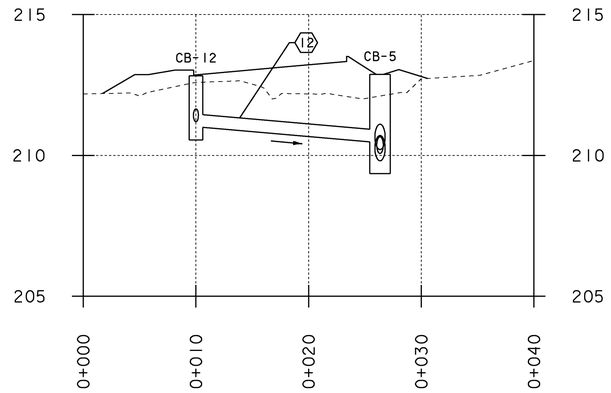
PIPE 11



CB-11
GRATE: TYPE D
RIM EL = 212.87M
DIAM. = 1200MM
DEPTH = 2.02M

11
SLOPE = 2.89%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 4.83M
DIAMETER = 450.00MM
INV IN = 211.31M
INV OUT = 211.20M

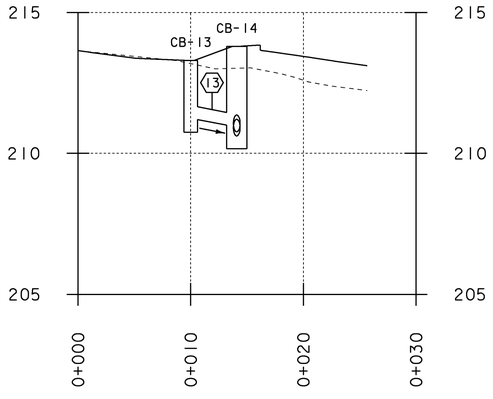
PIPE 12



CB-12
GRATE: TYPE D
RIM EL = 212.82M
DIAM. = 1200MM
DEPTH = 2.27M

12
SLOPE = 3.50%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 16.35M
DIAMETER = 450.00MM
INV IN = 211.00M
INV OUT = 210.48M

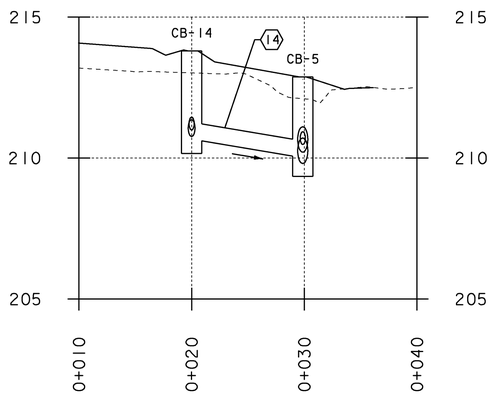
PIPE 13



CB-13
GRATE: TYPE D
RIM EL = 213.30M
DIAM. = 1200MM
DEPTH = 2.55M

13
SLOPE =7.76%
NEW PIPE
TYPE: OPTION PIPE
LENGTH =4.09M
DIAMETER =450.00MM
INV IN= 211.20M
INV OUT= 211.00M

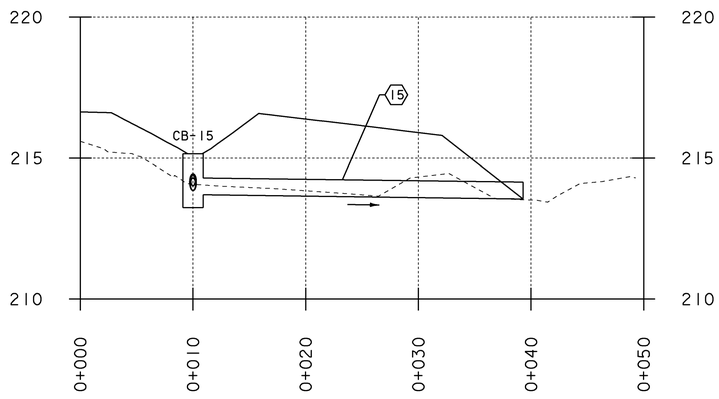
PIPE 14



CB-14
GRATE: TYPE D
RIM EL = 213.80M
DIAM. = 1800MM
DEPTH = 3.64M

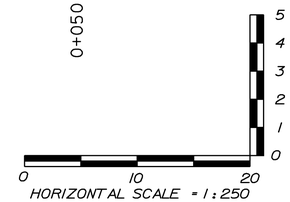
14
SLOPE = 6.76%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 9.88M
DIAMETER = 600.00MM
INV IN = 210.61M
INV OUT = 210.07M

PIPE 15



CB-15
GRATE: TYPE D
RIM EL = 215.15M
DIAM. =1800MM
DEPTH = 1.90M

15
SLOPE =0.53%
NEW PIPE
TYPE: OPTION PIPE
LENGTH =29.29M
DIAMETER =600.00MM
INV IN= 213.70M
INV OUT= 213.55M

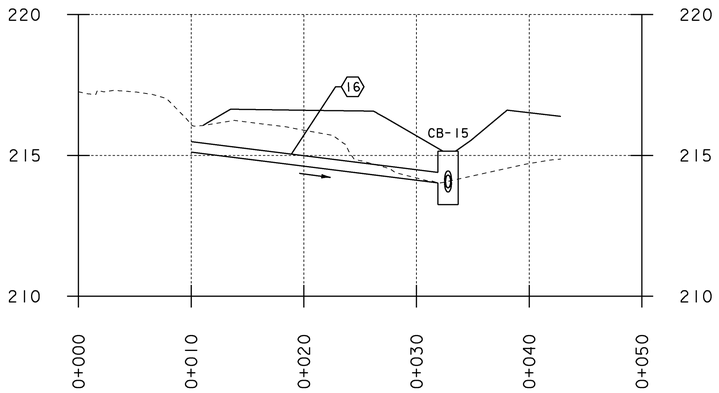


HORIZONTAL SCALE = 1:250
VERTICAL SCALE = 1:100

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S

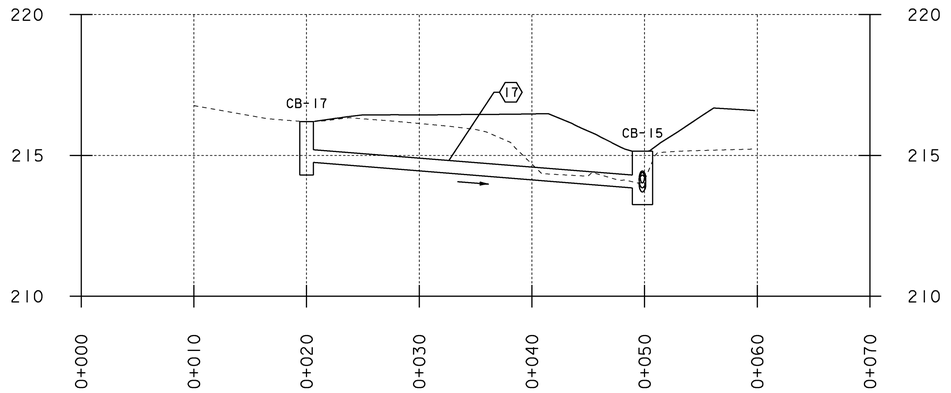
FILE NAME: t98b028profile.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J.SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
DRAINAGE PROFILE SHEET 3	SHEET 44 OF 142

PIPE 16



16
SLOPE = 5.00%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 22.83M
DIAMETER = 375.00MM
INV IN = 215.12M
INV OUT = 214.02M

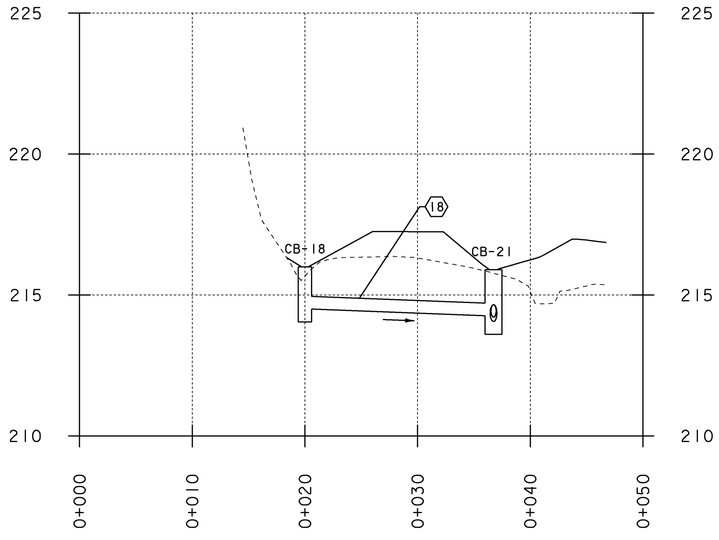
PIPE 17



CB-17
GRATE: TYPE D
RIM EL = 216.20M
DIAM. = 1200MM
DEPTH = 1.90M

17
SLOPE = 3.18%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 29.82M
DIAMETER = 450.00MM
INV IN = 214.75M
INV OUT = 213.85M

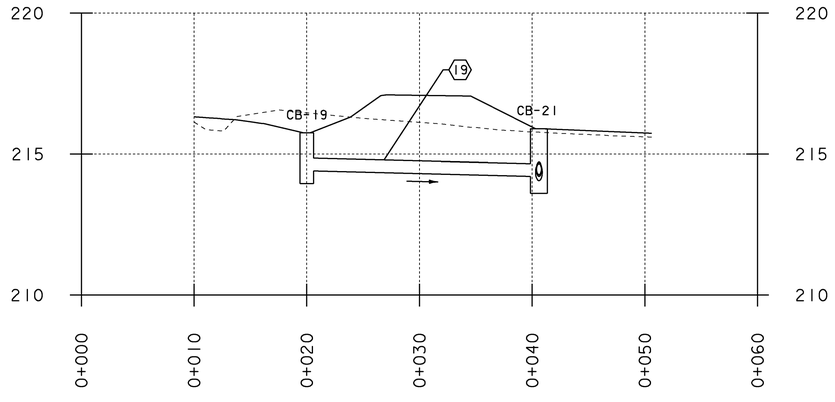
PIPE 18



CB-18
GRATE: TYPE D
RIM EL = 216.00M
DIAM. = 1200MM
DEPTH = 1.95M

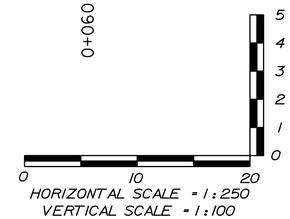
18
SLOPE = 1.50%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 16.75M
DIAMETER = 450.00MM
INV IN = 214.50M
INV OUT = 214.27M

PIPE 19



CB-19
GRATE: TYPE D
RIM EL = 215.75M
DIAM. = 1200MM
DEPTH = 1.79M

19
SLOPE = 1.00%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 20.61M
DIAMETER = 450.00MM
INV IN = 214.40M
INV OUT = 214.21M



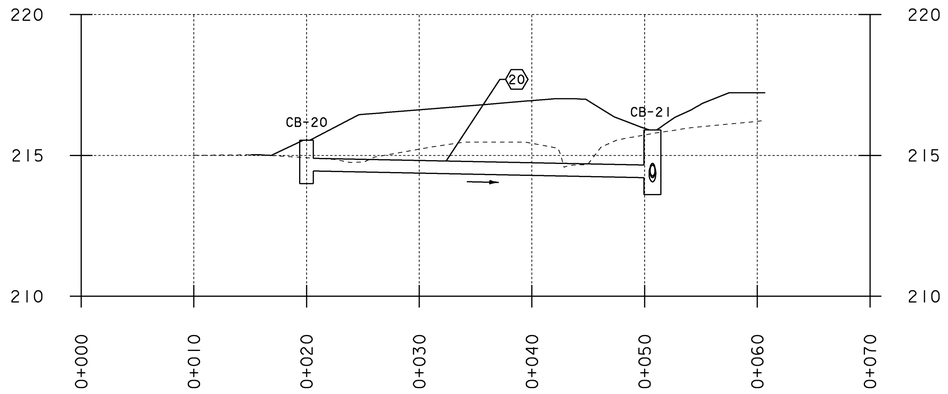
HORIZONTAL SCALE = 1:250
VERTICAL SCALE = 1:100

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028profile.dgn
PROJECT LEADER: J.SCHULTZ
DESIGNED BY: J. GRUCHACZ
DRAINAGE PROFILE SHEET 4

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 45 OF 142

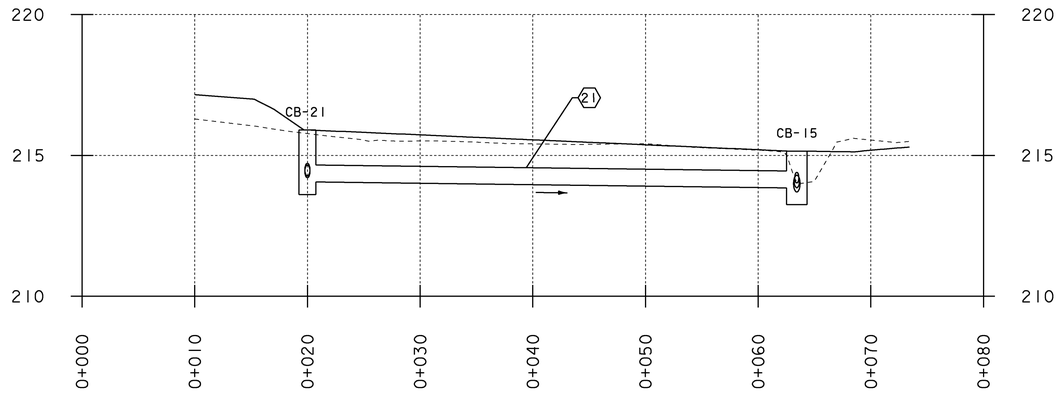
PIPE 20



CB-20
GRATE: TYPE D
RIM EL = 215.54M
DIAM. = 1200MM
DEPTH = 1.54M

20
SLOPE = 0.81%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 30.70M
DIAMETER = 450.00MM
INV IN = 214.45M
INV OUT = 214.21M

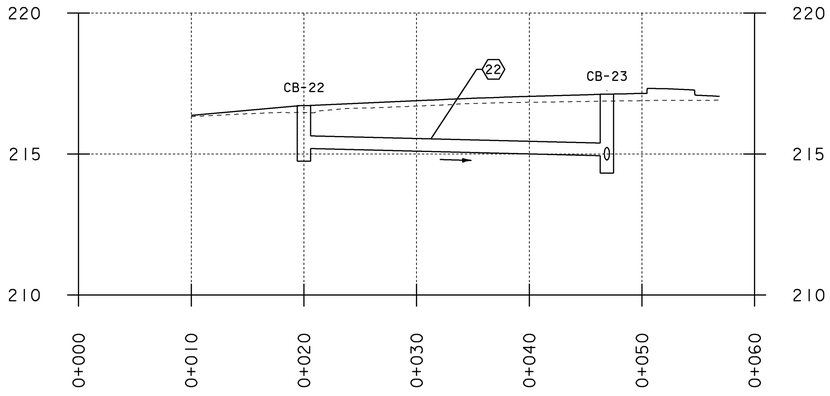
PIPE 21



CB-21
GRATE: TYPE D
RIM EL = 215.90M
DIAM. = 1500M
DEPTH = 2.29M

21
SLOPE = 0.50%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 43.43M
DIAMETER = 600.00MM
INV IN = 214.06M
INV OUT = 213.85M

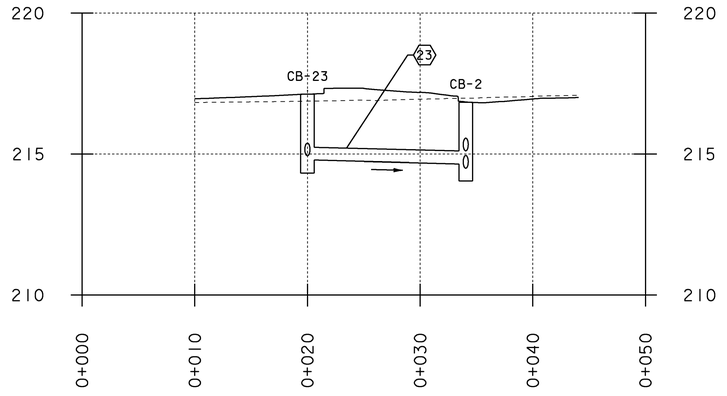
PIPE 22



CB-22
GRATE: TYPE D
RIM EL = 216.72M
DIAM. = 1200M
DEPTH = 1.97M

22
SLOPE = 1.00%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 26.89M
DIAMETER = 450.00MM
INV IN = 215.19M
INV OUT = 214.94M

PIPE 23



CB-23
GRATE: TYPE D
RIM EL = 217.12M
DIAM. =1200M
DEPTH = 2.79M

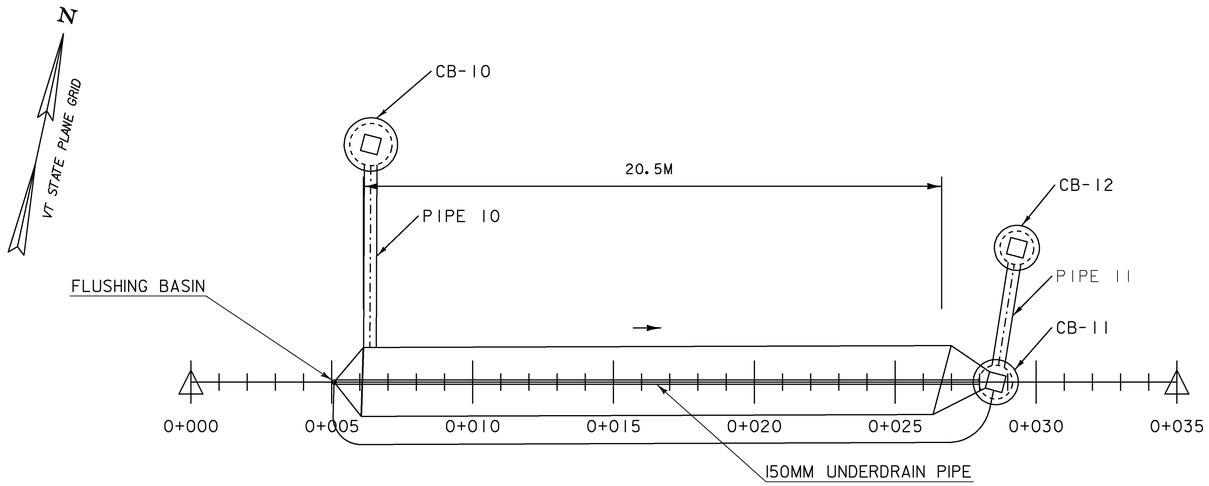
23
SLOPE =1.00%
NEW PIPE
TYPE: OPTION PIPE
LENGTH = 14.05M
DIAMETER = 450.00MM
INV IN = 214.78M
INV OUT = 214.66M

HORIZONTAL SCALE = 1:250
VERTICAL SCALE = 1:100

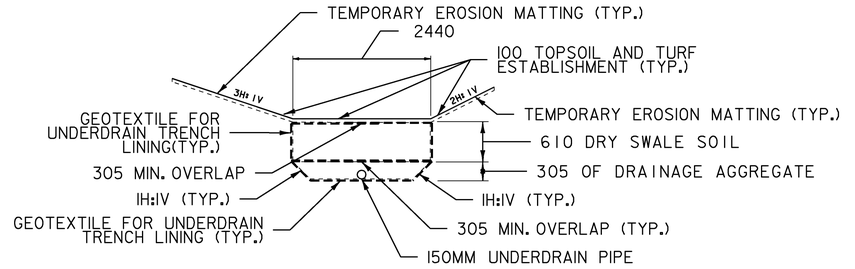
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028profile.dgn
PROJECT LEADER: J.SCHULTZ
DESIGNED BY: J. GRUCHACZ
DRAINAGE PROFILE SHEET 5

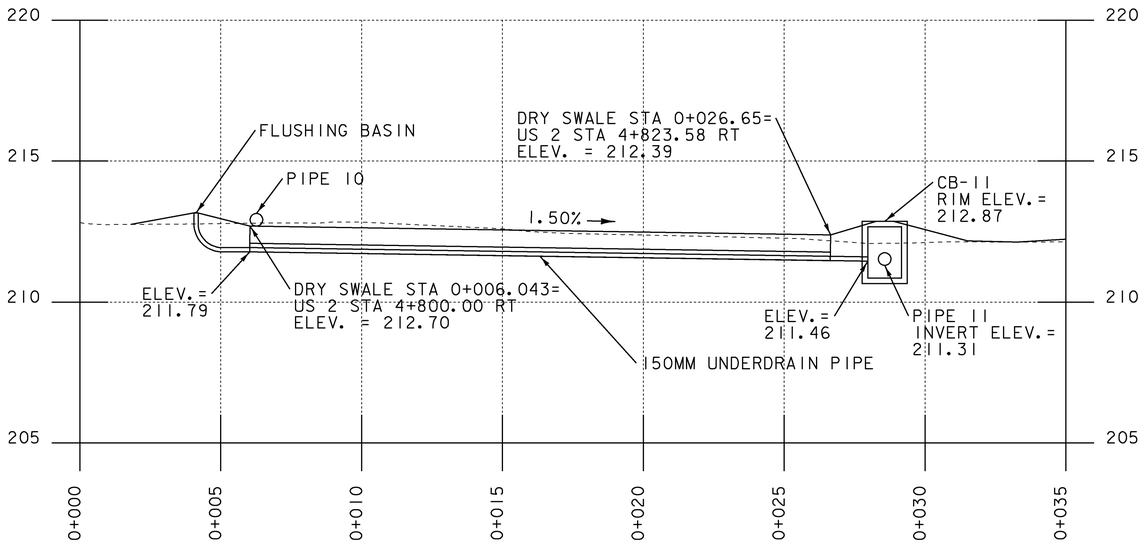
PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 46 OF 142



900.640 SPECIAL PROVISION
(150MM UNDERDRAIN PIPE, DRY SWALE)
PLAN



900.640 SPECIAL PROVISION
(150MM UNDERDRAIN PIPE, DRY SWALE)
US ROUTE 2
4+800.00 RT - 4+825.00 RT
NOT TO SCALE



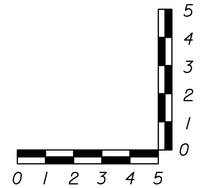
900.640 SPECIAL PROVISION
(150MM UNDERDRAIN PIPE, DRY SWALE)
PROFILE

DRY SWALE NOTES

1. THE CONTRACTOR SHALL WRAP GEOTEXTILE FOR UNDERDRAIN TRENCH LINING AROUND THE DRY SWALE SOIL AND DRAINAGE AGGREGATE SEPARATELY WITH A MINIMUM OF 305MM OVERLAP AT ENDS.

2. THE CONTRACTOR SHALL PLACE TEMPORARY EROSION MATTING WITH GRASS AND SEED OVER THE DRY SWALE SOIL.

3. PAYMENT FOR ITEM 900.640, "SPECIAL PROVISION (150MM UNDERDRAIN PIPE, DRY SWALE)" SHALL INCLUDE 150MM UNDERDRAIN, DRAINAGE AGGREGATE, DRY SWALE SOIL, AND GEOTEXTILE FOR UNDERDRAIN TRENCH LINING. PAYMENT FOR EXCAVATION SHALL BE MADE UNDER ITEM 204.20, "TRENCH EXCAVATION OF EARTH".



PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028typ.dgn	PLOT DATE: 29-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
STORMWATER TREATMENT DETAIL SHEET	SHEET 47 OF 142

EROSION CONTROL NARRATIVE

1.1 PROJECT DESCRIPTION

THE PROJECT IS LOCATED AT THE INTERSECTION OF US ROUTE 2 AND VT ROUTE 14 IN THE TOWN OF EAST MONTPELIER. WORK TO BE PERFORMED INCLUDES THE REALIGNMENT AND RECONSTRUCTION OF THE US ROUTE 2 AND VT ROUTE 14 INTERSECTION, INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL SYSTEM, NEW DRAINAGE FEATURES, SUBBASE, PAVEMENT, PAVEMENT MARKINGS, CONSTRUCTION OF A NEW PARKING AREA, AND MISCELLANEOUS ROADWAY ITEMS.

NOTE: AREA OF DISTURBANCE SHALL INCLUDE LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA, INCLUDING ANY WASTE, STAGING AND BORROW AREAS WITHIN OR DIRECTLY ADJACENT TO THE PROJECT LIMITS.

TOTAL AREA OF DISTURBANCE IS APPROXIMATELY 1.63 HECTARES.

IT IS ANTICIPATED THAT THIS PROJECT WILL LAST TWO CONSTRUCTION SEASONS.

1.2 SITE INVENTORY

1.2.1 TOPOGRAPHY

THE PROJECT AREA CAN BE DESCRIBED AS RURAL RESIDENTIAL. THERE ARE NUMEROUS RESIDENTIAL AND COMMERCIAL BUILDINGS LOCATED ALONG THE PROJECT LENGTH. THE LAND COVER ASSOCIATED WITH THESE LOTS INCLUDE IMPERVIOUS AREA, WELL ESTABLISHED LAWNS, AS WELL AS LIGHT WOODS/BRUSH. ADJACENT TO THESE LOTS THERE ARE LARGER, UNDEVELOPED, WELL ESTABLISHED FIELDS. THE PROJECT AREA CAN BE DESCRIBED AS ROLLING TERRAIN, WITH PRIMARY DRAINAGE OCCURRING IN THE WEST TO EAST DIRECTION. DIRECTLY WEST AND NORTH OF THE PROJECT AREA, THE TOPOGRAPHY CONSISTS OF STEEP TERRAIN, DRAINING TOWARDS THE PROJECT. THE AREA SOUTH AND EAST OF THE PROJECT DRAINS AWAY FROM THE PROJECT AREA. ALL RUNOFF FROM THESE OFF-SITE AREAS HAVE BEEN CONSIDERED IN DRAINAGE DESIGN CALCULATIONS.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

THERE ARE TWO WATER BODIES IN THE PROJECT VICINITY. THE WINOOSKI RIVER RUNS PARALLEL TO US ROUTE 2 ALONG THE PROJECT LENGTH. A SMALL PORTION OF THE PROJECT (APPROXIMATELY 0.44 ACRES) DRAINS TO THE WINOOSKI RIVER VIA OVERLAND FLOW OVER WELL ESTABLISHED FIELDS. THIS RECEIVING WATER HAS A WATERSHED AREA OF 466.20 SQUARE KILOMETERS AT THE DISCHARGE POINT. THE REMAINDER OF THE PROJECT DRAINS, VIA CLOSED DRAINAGE FEATURES AND GRASS CHANNELS, TO THE SODOM BROOK. THE SODOM BROOK INTERSECTS WITH US ROUTE 2 APPROXIMATELY 125 METERS EAST OF THE END PROJECT STATION. THIS RECEIVING WATER HAS A WATERSHED AREA OF APPROXIMATELY 26.16 SQUARE KILOMETERS AT THE DISCHARGE POINT.

1.2.3 VEGETATION

THE LAND COVER IN THE PROJECT AREA CONSISTS OF ESTABLISHED LAWNS, LIGHT WOODS/BRUSH, AND IMPERVIOUS AREA ASSOCIATED WITH THE ROADWAY AND RESIDENTIAL/COMMERCIAL DEVELOPMENT. THE IMPACT TO VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY THE ROADWAY CONSTRUCTION ACTIVITIES. DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES. MULTIPLE LANDSCAPE FEATURES WILL BE INSTALLED AS PART OF THE PROJECT.

1.2.4 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF WASHINGTON, VERMONT. SOILS ON THE PROJECT SITE INCLUDE; ADAMS LOAMY FINE SAND, 3% TO 8% SLOPES, “K FACTOR” = 0.17, LOW EROSION POTENTIAL, DUMMERSTON FINE SANDY LOAM, 15% TO 25% SLOPES, “K FACTOR” = 0.32, MODERATE EROSION POTENTIAL, CABOT SILT LOAM, 0% TO 3% SLOPES, “K FACTOR” = 0.32, MODERATE EROSION POTENTIAL, AND SALMON VERY FINE SANDY LOAM, 8% TO 15% SLOPES, “K FACTOR” = 0.49, HIGH EROSION POTENTIAL.
NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING: 0.0-0.23 = LOW EROSION POTENTIAL; 0.24-0.36 = MODERATE EROSION POTENTIAL: 0.37 AND HIGHER = HIGH EROSION POTENTIAL.

1.2.5 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO
HISTORICAL OR ARCHEOLOGICAL AREAS: YES (MULTIPLE HISTORIC STRUCTURES, PROJECT WILL HAVE NO ADVERSE EFFECT)
PRIME AGRICULTURAL LAND: NO
THREATENED AND ENDANGERED SPECIES: NO
WATER RESOURCE: RECEIVING WATERS (WINOOSKI RIVER, SODOM BROOK)
WETLANDS: NO

1.3 RISK EVALUATION

THIS PROJECT FALLS UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES FOR LOW RISK PROJECTS. ANY MODIFICATIONS TO THE PROJECT THAT INCREASE THE RISK TO ENVIRONMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE PRINCIPLES OUTLINED IN THIS NARRATIVE CONSIST OF APPLYING MEASURES THROUGHOUT CONSTRUCTION OF THE PROJECT IN ORDER TO MINIMIZE SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION PRACTICES. THEY HAVE BEEN PROPOSED BY THE DESIGNER AS A BASIS FOR PROTECTING RESOURCES AND WILL NEED TO BE BUILT UPON BASED ON THE SPECIFIC MEANS AND METHODS OF THE CONTRACTOR. REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR SPECIFIC GUIDANCE AND CONSTRUCTION DETAILING.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED OF AT AN APPPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

1.4.1 MARK SITE BOUNDARIES

PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES. BECAUSE THIS PROJECT FALLS UNDER THE CGP 3-9020 BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC).

SINCE THIS PROJECT IS LOCATED PRIMARILY IN A RESIDENTIAL AREA THE RESIDENT ENGINEER SHALL DETERMINE LOCATIONS WHERE IT WOULD BE APPLICABLE TO DELINEATE SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS. DEMARCATION FENCE SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

1.4.2 LIMIT DISTURBANCE AREA

PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE DISTURBED AND EXPOSED TO EROSION. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE. FOR PROJECTS WHICH FALL UNDER THE CONSTRUCTION GENERAL PERMIT, ONLY THE ACREAGE LISTED ON THE PERMIT AUTHORIZATION MAY BE EXPOSED AT ANY GIVEN TIME.

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE.

1.4.3 SITE ENTRANCE/EXIT STABILIZATION

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MNIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES, OR AS DIRECTED BY THE ENGINEER.

1.4.4 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK.

STONE DROP INLET PROTECTION WILL BE USED ON ALL PROPOSED DRAINAGE STRUCTURES AS PROPOSED ON THE EPSC PLAN OR AS DIRECTED BY THE ENGINEER.

SILT FENCE WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN OR AS DIRECTED BY THE ENGINEER. BECAUSE THIS PROJECT FALLS UNDER THE CGP 3-9020, WOVEN WIRE REINFORCED SILT FENCE SHALL BE USED INSTEAD OF SILT FENCE WITHIN 100 FEET UPSLOPE OF RECEIVING WATERS.

1.4.5 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.

1.4.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSIVE POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

STONE CHECK DAMS SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLAN OR AS DIRECTED BY THE ENGINEER.

1.4.7 CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

TYPE II STONE FOR SLOPE LINING AND CHANNEL PROTECTION
SEED AND MULCH
DRAINAGE INLETS AND PIPING

1.4.8 STABILIZE EXPOSED SOILS DURING CONSTRUCTION

ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY STABILIZATION IN PLACE WITHIN 48 HOURS OF DISTURBANCE OR IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT 3-9020 AUTHORIZATION.

SURFACE ROUGHENING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, SHALL BE UTILIZED ON A REGULAR BASIS. BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3.

THE FORECAST OF RAINFALL EVENTS SHALL TRIGGER IMMEDIATE PROTECTION OF EXPOSED SOILS.

1.4.9 WINTER STABILIZATION

VARIOUS MEASURES SPECIFIC TO WINTER MAY BE NECESSARY SHOULD THE PROJECT EXTEND INTO WINTER (OCTOBER 15 THROUGH APRIL 15). REFER TO THE LOW RISK SITE HANDBOOK FOR GUIDANCE.

1.4.10 STABILIZE SOIL AT FINAL GRADE

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

SEED, MULCH, FERTILIZER AND LIME SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH.

1.4.11 DE-WATERING ACTIVITIES

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS OFF OF THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

DE-WATERING ACTIVITIES ARE NOT ANTICIPATED ON THIS PROJECT.

1.4.12 INSPECT YOUR SITE

INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS.

1.5 SEQUENCE AND STAGING

THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

1.5.1 CONSTRUCTION SEQUENCE

1.5.2 OFF-SITE ACTIVITIES

IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SUBSECTIONS 105.25- 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

1.5.3 UPDATES

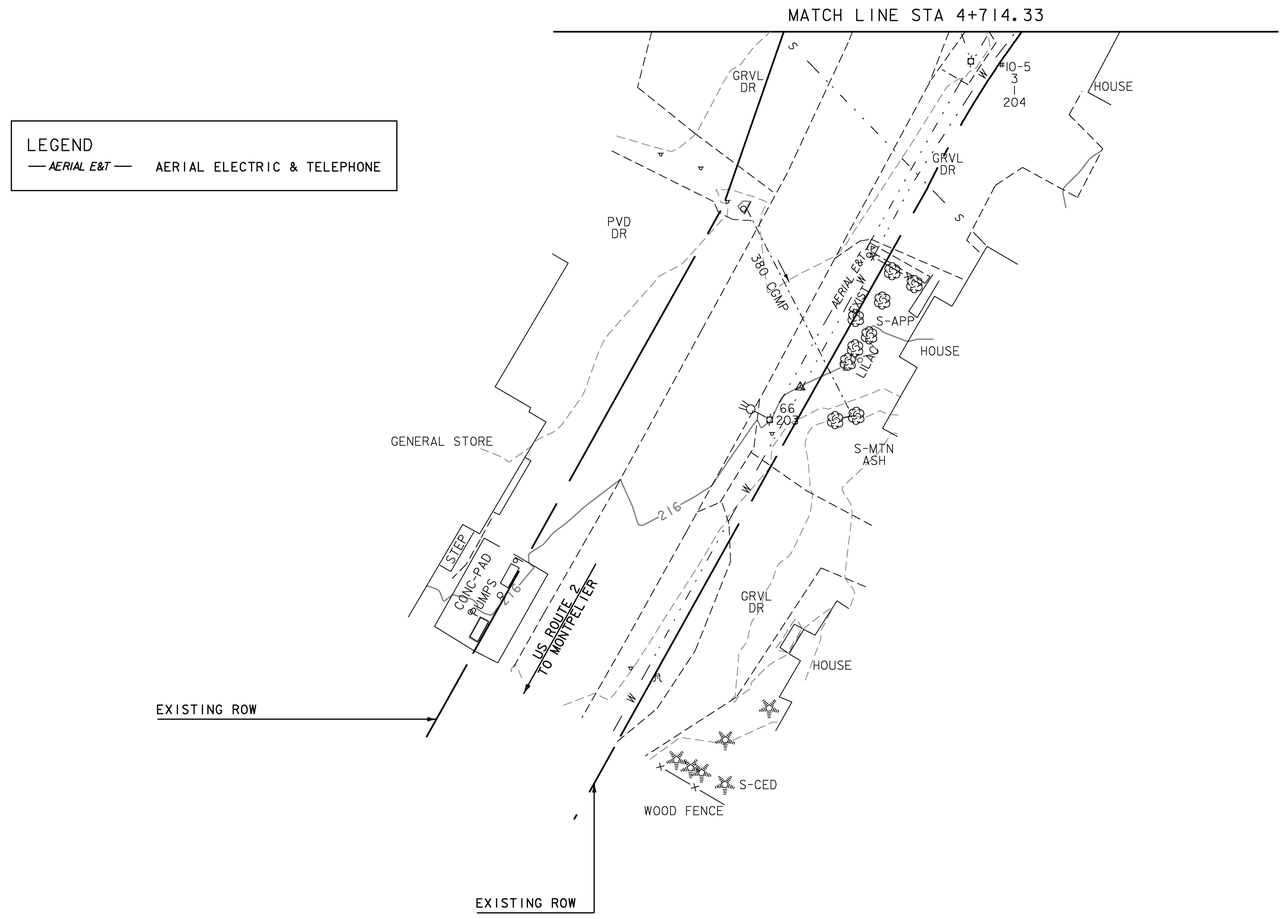
PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028ecnarrative.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. SCHULTZ
EPSC NARRATIVE	SHEET 48 OF 142

N

VT STATE PLANE GRID

LEGEND

—AERIAL E&T— AERIAL ELECTRIC & TELEPHONE



0 10 20 30

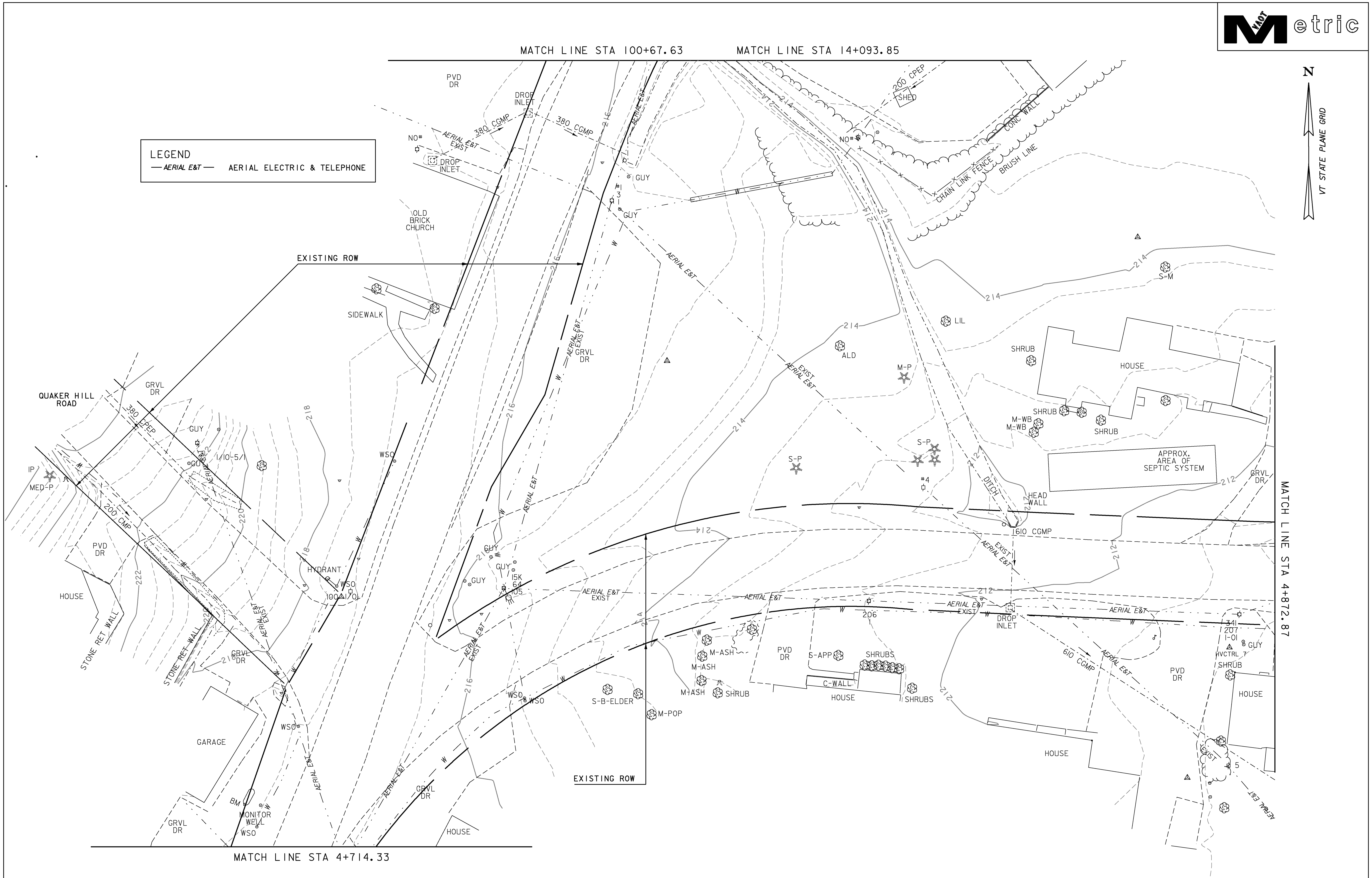
SCALE IN METERS

PROJECT NAME: EAST MONTPELIER

PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028ecexlstlngbdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
EPSC EXISTING CONDITIONS SHEET 1

PLOT DATE: 22-MAR-2010
DRAWN BY: J. DEVLIN
CHECKED BY: J. SCHULTZ
SHEET 49 OF 142

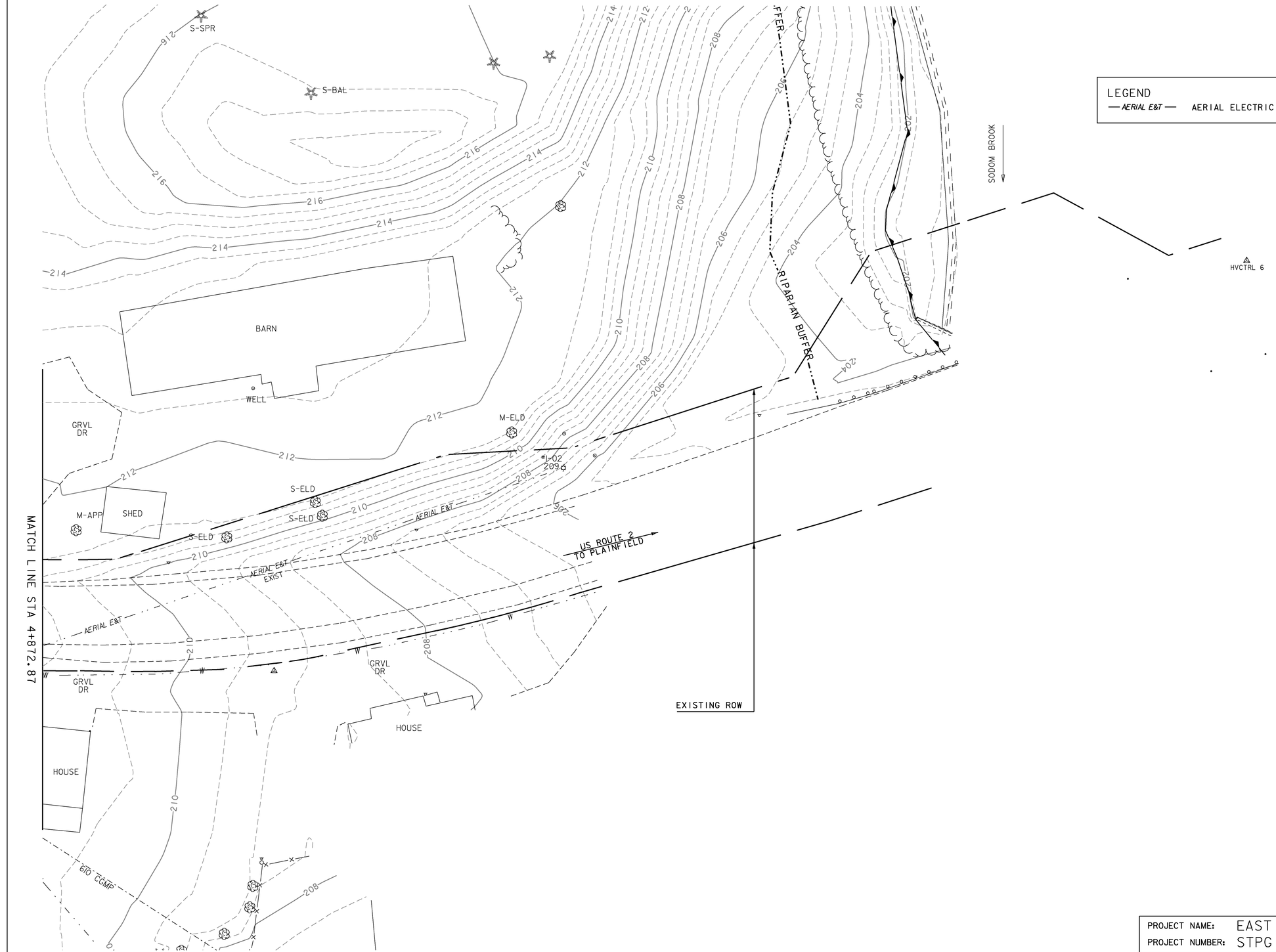

MATCH LINE STA 100+67.63
MATCH LINE STA 14+093.85
MATCH LINE STA 4+872.87
MATCH LINE STA 4+714.33
LEGEND
AERIAL E&T — AERIAL ELECTRIC & TELEPHONE
N
VT STATE PLANE GRID
QUAKER HILL ROAD
EXISTING ROW
OLD BRICK CHURCH
DROP INLET
380 CGMP
200 CPEP
380 CPEP
200 CMP
610 CGMP
1610 CGMP
SHED
CONC WALL
CHAIN LINK FENCE
BRUSH LINE
SIDEWALK
GRVL DR
PVD DR
HOUSE
GARAGE
STONE RET WALL
HYDRANT
MONITOR WELL
BM
WSO
GUY
MED-P
IP
APPROX. AREA OF SEPTIC SYSTEM
HEAD WALL
DITCH
SHRUB
SHRUBS
C-WALL
M-ASH
S-B-ELDER
M-POP
S-APP
S-P
M-P
ALD
LIL
S-M
M-WB
AERIAL E&T EXIST
0 10 20 30
SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S

FILE NAME: t98b028ecexistingbdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
EPSC EXISTING CONDITIONS SHEET 2

PLOT DATE: 22-MAR-2010
DRAWN BY: J. DEVLIN
CHECKED BY: J. SCHULTZ
SHEET 50 OF 142

VTrans Metric



PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028ecexlstlngbdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. SCHULTZ
EPSC EXISTING CONDITIONS SHEET 3	SHEET 51 OF 142

N

VT STATE PLANE GRID

LEGEND

—AERIAL E&T— AERIAL ELECTRIC & TELEPHONE

KELTON ROAD

EXISTING ROW

EXISTING ROW

EAST MONTPELIER TOWN OFFICES

GRVL DR

S-APP

S-APP

DROP INLET

GUYe

460 RCP

380 CGMP

EXIST AERIAL E&T

AERIAL E&T EXIST

310 CGMP

GUY

M-P

M-P

#8

WSO

WSO

WSO

GRVL DR

M-M

GRVL DR

AERIAL E&T

AERIAL E&T EXIST

VT ROUTE 14 TO CALAIS

SHRUB

FLPOLE

PVD DR

PVD DR

HOUSE

SHRUB

WALK

WD FN

SHED

S-P

310 CGMP

DROP INLET

S-BAL

310 CGMP

FIRESTATION

GRVL DR

WAREHOUSE (WEC)

WASH. EL. CO-OP

MH

MH

MH

DROP INLET

M-APP

380 CGMP

AERIAL E&T EXIST

SHRUBS

FLAG POLE

PVD DR

218

220

216

MATCH LINE STA 100+67.63

MATCH LINE STA 14+093.85

0 10 20 30

SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028ecexlstlngbdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. SCHULTZ
EPSC EXISTING CONDITIONS SHEET 4	SHEET 52 OF 142

N

VT STATE PLANE GRID

MATCH LINE STA 4+714.33

SOIL CLASSIFICATION

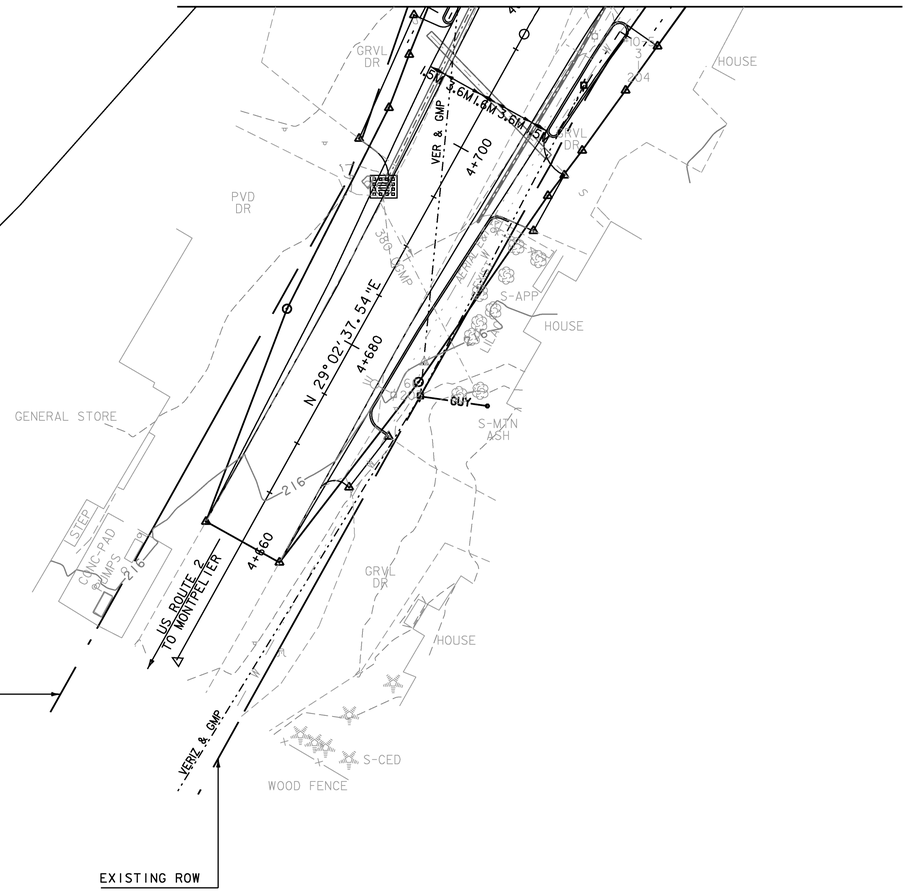
DUMMERSTON FINE SANDY LOAM
15-25% SLOPES
HYDROGROUP B
"K FACTOR" 0.32
MODERATE ERODIABILITY

SOIL BOUNDARY

SOIL CLASSIFICATION

ADAMS LOAMY FINE SAND
3-8% SLOPES
HYDROGROUP A
"K FACTOR" 0.17
LOW ERODIABILITY

EXISTING ROW



LEGEND

LIMITS OF SOIL DISTURBANCE

STONE DROP INLET PROTECTION

NOTES:

1. THESE PLANS SHOW A CONCEPTUAL EROSION CONTROL PLAN, THE CONTRACTOR MUST SUBMIT A TEMPORARY EROSION CONTROL PLAN FOR APPROVAL.
2. TEMPORARY EROSION CONTROL MEASURES ARE CONCEPTUALLY SHOWN. THE CONTRACTOR MAY RELOCATE TEMPORARY MEASURES TO IMPROVE EROSION CONTROL WITH APPROVAL OF THE RESIDENT ENGINEER AND ON SITE COORDINATOR. SILT FENCE SHALL NOT BE INSTALLED ACROSS CONTOURS.
3. THE CONTRACTOR SHALL USE OTHER TEMPORARY EROSION CONTROL MEASURES AS NECESSITATED BY THE SEQUENCE OF CONSTRUCTION OR AS DIRECTED BY THE RESIDENT ENGINEER AND ON SITE COORDINATOR.
4. REFER TO TEMPORARY EROSION CONTROL DETAIL SHEETS FOR ADDITIONAL DETAILS.

653.40 - INLET PROTECTION DEVICE, TYPE I
STA 4+693.66 LT

0 10 20 30

SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028ecconstructionbdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. SCHULTZ
EPSC CONSTRUCTION SHEET 1	SHEET 53 OF 142

NOTES:

1. THESE PLANS SHOW A CONCEPTUAL EROSION CONTROL PLAN, THE CONTRACTOR MUST SUBMIT A TEMPORARY EROSION CONTROL PLAN FOR APPROVAL.
2. TEMPORARY EROSION CONTROL MEASURES ARE CONCEPTUALLY SHOWN. THE CONTRACTOR MAY RELOCATE TEMPORARY MEASURES TO IMPROVE EROSION CONTROL WITH APPROVAL OF THE RESIDENT ENGINEER AND ON SITE COORDINATOR. SILT FENCE SHALL NOT BE INSTALLED ACROSS CONTOURS.
3. THE CONTRACTOR SHALL USE OTHER TEMPORARY EROSION CONTROL MEASURES AS NECESSITATED BY THE SEQUENCE OF CONSTRUCTION OR AS DIRECTED BY THE RESIDENT ENGINEER AND ON SITE COORDINATOR.
4. REFER TO TEMPORARY EROSION CONTROL DETAIL SHEETS FOR ADDITIONAL DETAILS.

LEGEND

- SILT FENCE
- LIMITS OF SOIL DISTURBANCE
- CHECK DAM
- EROSION MATTING
- STONE DROP INLET PROTECTION

MATCH LINE STA 100+67.63

MATCH LINE STA 14+093.85

MATCH LINE STA 4+872.87

MATCH LINE STA 4+714.33

SOIL CLASSIFICATION
CABOT SILT LOAM
0 -3% SLOPES
HYDROGROUP D
"K FACTOR" 0.32
MODERATE ERODIABILITY

SOIL CLASSIFICATION
SALMON VERY FINE SANDY LOAM
8-15% SLOPES
HYDROGROUP B
"K FACTOR" 0.49
HIGH ERODIABILITY

SOIL CLASSIFICATION
DUMMERSTON FINE SANDY LOAM
15-25% SLOPES
HYDROGROUP B
"K FACTOR" 0.32
MODERATE ERODIABILITY

SOIL CLASSIFICATION
ADAMS LOAMY FINE SAND
3-8% SLOPES
HYDROGROUP A
"K FACTOR" 0.17
LOW ERODIABILITY

SOIL BOUNDARY

EXISTING ROW

653.20 - TEMPORARY EROSION MATTING
STA 4+749.71 LT - STA 4+784.09 LT
STA 4+796.44 RT - STA 4+824.63 RT
STA 14+031.41 LT - STA 14+089.95 LT
STA 14+034.09 RT - STA 14+071.27 RT

653.40 - INLET PROTECTION DEVICE, TYPE I
STA 4+720.00 LT
STA 4+758.30 LT
STA 4+800.03 RT
STA 4+818.12 LT
STA 4+824.99 RT
STA 4+825.68 RT
STA 4+827.12 LT
STA 4+863.00 LT
STA 14+038.87 LT
STA 40+011.08 LT
STA 40+011.11 RT
STA 40+030.43 LT
STA 100+078.45 RT

649.51 - GEOTEXTILE FOR SILT FENCE
STA 14+044.08 RT - STA 14+073.38 RT

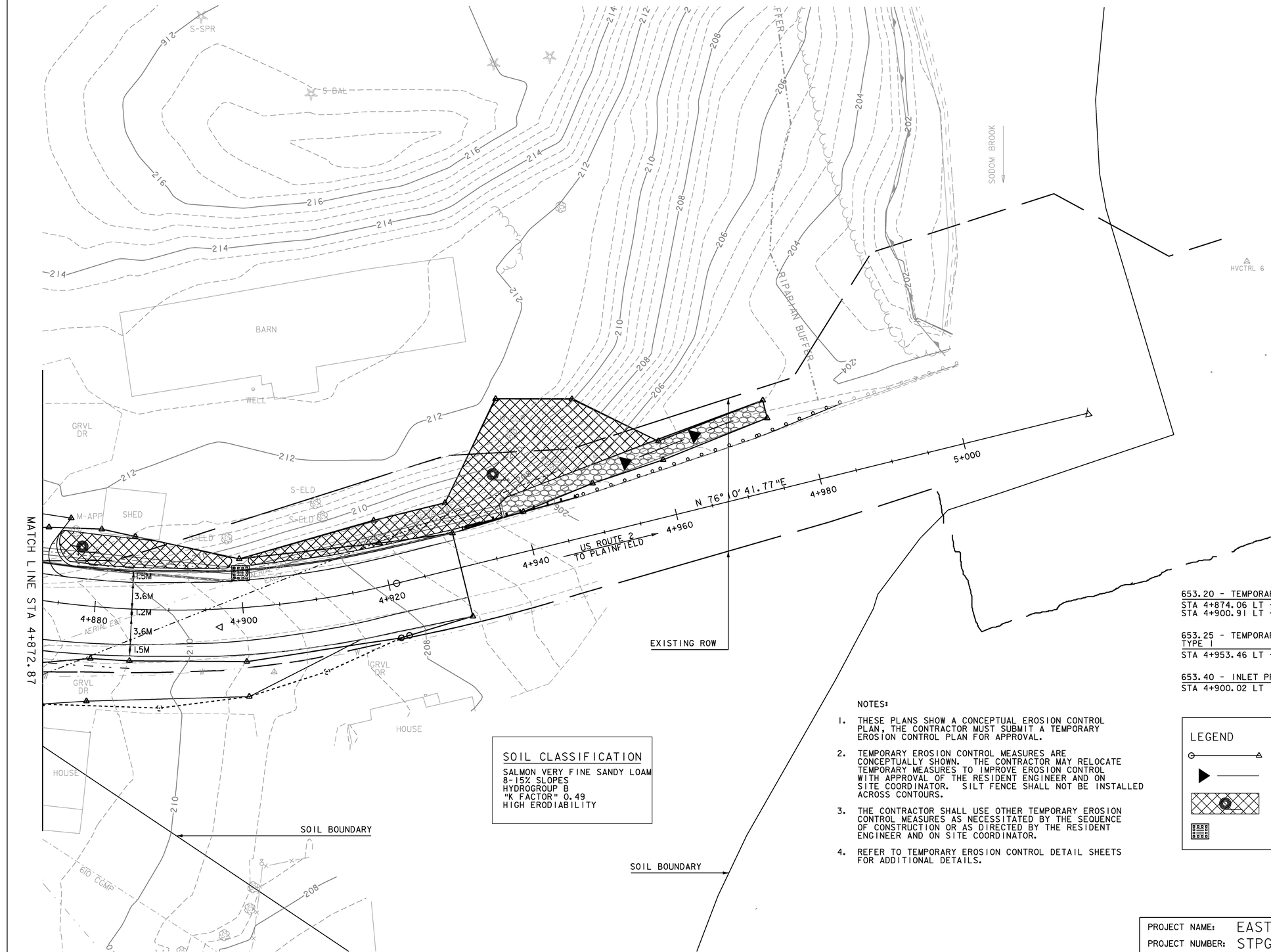
653.25 - TEMPORARY STONE CHECK DAM, TYPE I
STA 14+049.60 RT - STA 14+063.61 RT

0 10 20 30
SCALE IN METERS

N
VT STATE PLANE GRID

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028econstructionbdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. SCHULTZ
EPSC CONSTRUCTION SHEET 2	SHEET 54 OF 142

VAOT Metric



SOIL CLASSIFICATION

SALMON VERY FINE SANDY LOAM
8-15% SLOPES
HYDROGROUP B
"K FACTOR" 0.49
HIGH ERODIABILITY

653.20 - TEMPORARY EROSION MATTING
STA 4+874.06 LT - STA 4+899.10 LT
STA 4+900.91 LT - STA 4+974.92 LT

653.25 - TEMPORARY STONE CHECK DAM, TYPE I
STA 4+953.46 LT - STA 4+970.43 LT

653.40 - INLET PROTECTION DEVICE, TYPE I
STA 4+900.02 LT

NOTES:

1. THESE PLANS SHOW A CONCEPTUAL EROSION CONTROL PLAN, THE CONTRACTOR MUST SUBMIT A TEMPORARY EROSION CONTROL PLAN FOR APPROVAL.
2. TEMPORARY EROSION CONTROL MEASURES ARE CONCEPTUALLY SHOWN. THE CONTRACTOR MAY RELOCATE TEMPORARY MEASURES TO IMPROVE EROSION CONTROL WITH APPROVAL OF THE RESIDENT ENGINEER AND ON SITE COORDINATOR. SILT FENCE SHALL NOT BE INSTALLED ACROSS CONTOURS.
3. THE CONTRACTOR SHALL USE OTHER TEMPORARY EROSION CONTROL MEASURES AS NECESSITATED BY THE SEQUENCE OF CONSTRUCTION OR AS DIRECTED BY THE RESIDENT ENGINEER AND ON SITE COORDINATOR.
4. REFER TO TEMPORARY EROSION CONTROL DETAIL SHEETS FOR ADDITIONAL DETAILS.

LEGEND

- LIMITS OF SOIL DISTURBANCE
- CHECK DAM
- EROSION MATTING
- STONE DROP INLET PROTECTION

0 10 20 30
SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028ecconstructionbdr.dgn PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ DRAWN BY: J. DEVLIN
DESIGNED BY: J. GRUCHACZ CHECKED BY: J. SCHULTZ
EPSC CONSTRUCTION SHEET 3 SHEET 55 OF 142

NOTES:

1. THESE PLANS SHOW A CONCEPTUAL EROSION CONTROL PLAN, THE CONTRACTOR MUST SUBMIT A TEMPORARY EROSION CONTROL PLAN FOR APPROVAL.
2. TEMPORARY EROSION CONTROL MEASURES ARE CONCEPTUALLY SHOWN. THE CONTRACTOR MAY RELOCATE TEMPORARY MEASURES TO IMPROVE EROSION CONTROL WITH APPROVAL OF THE RESIDENT ENGINEER AND ON SITE COORDINATOR. SILT FENCE SHALL NOT BE INSTALLED ACROSS CONTOURS.
3. THE CONTRACTOR SHALL USE OTHER TEMPORARY EROSION CONTROL MEASURES AS NECESSITATED BY THE SEQUENCE OF CONSTRUCTION OR AS DIRECTED BY THE RESIDENT ENGINEER AND ON SITE COORDINATOR.
4. REFER TO TEMPORARY EROSION CONTROL DETAIL SHEETS FOR ADDITIONAL DETAILS.

653.20 - TEMPORARY EROSION MATTING

STA 14+089.95 LT - 14+090.59 LT
STA 14+093.34 LT - 14+139.73 LT
STA 14+150.27 RT - 14+208.19 RT

653.40 - INLET PROTECTION DEVICE, TYPE I

STA 14+091.93 LT
STA 14+130.87 LT
STA 14+149.00 RT
STA 14+149.19 LT
STA 100.012.63 RT

LEGEND

- LIMITS OF SOIL DISTURBANCE
- EROSION MATTING
- STONE DROP INLET PROTECTION

SOIL CLASSIFICATION

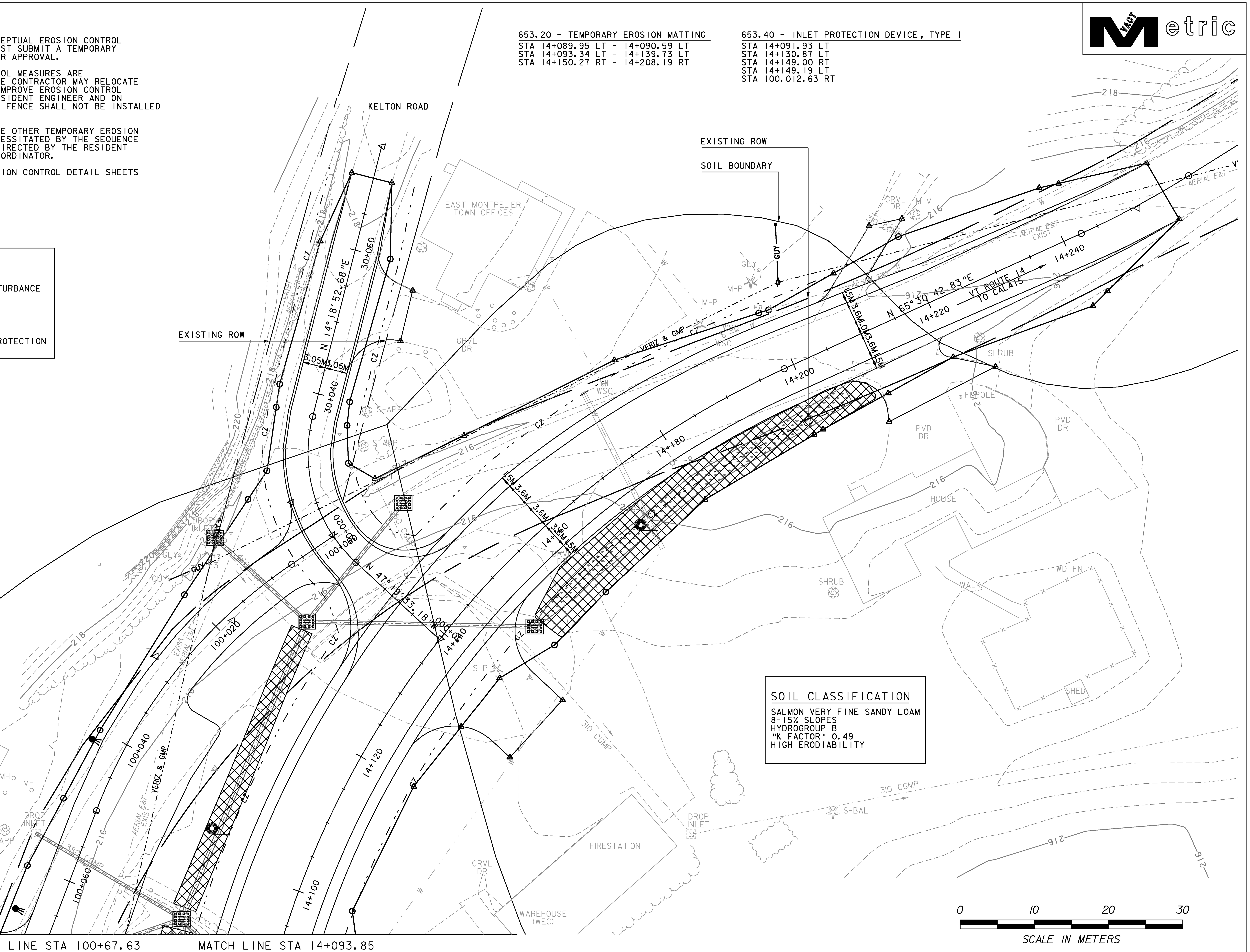
DUMMERSTON FINE SANDY LOAM
15-25% SLOPES
HYDROGROUP B
"K FACTOR" 0.32
MODERATE ERODIABILITY

SOIL CLASSIFICATION

CABOT SILT LOAM
0 -3% SLOPES
HYDROGROUP D
"K FACTOR" 0.32
MODERATE ERODIABILITY

SOIL CLASSIFICATION

SALMON VERY FINE SANDY LOAM
8-15% SLOPES
HYDROGROUP B
"K FACTOR" 0.49
HIGH ERODIABILITY



VTrans Metric

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S

FILE NAME: t98b028ecconstructionbdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. SCHULTZ
EPSC CONSTRUCTION SHEET 4	SHEET 56 OF 142

N

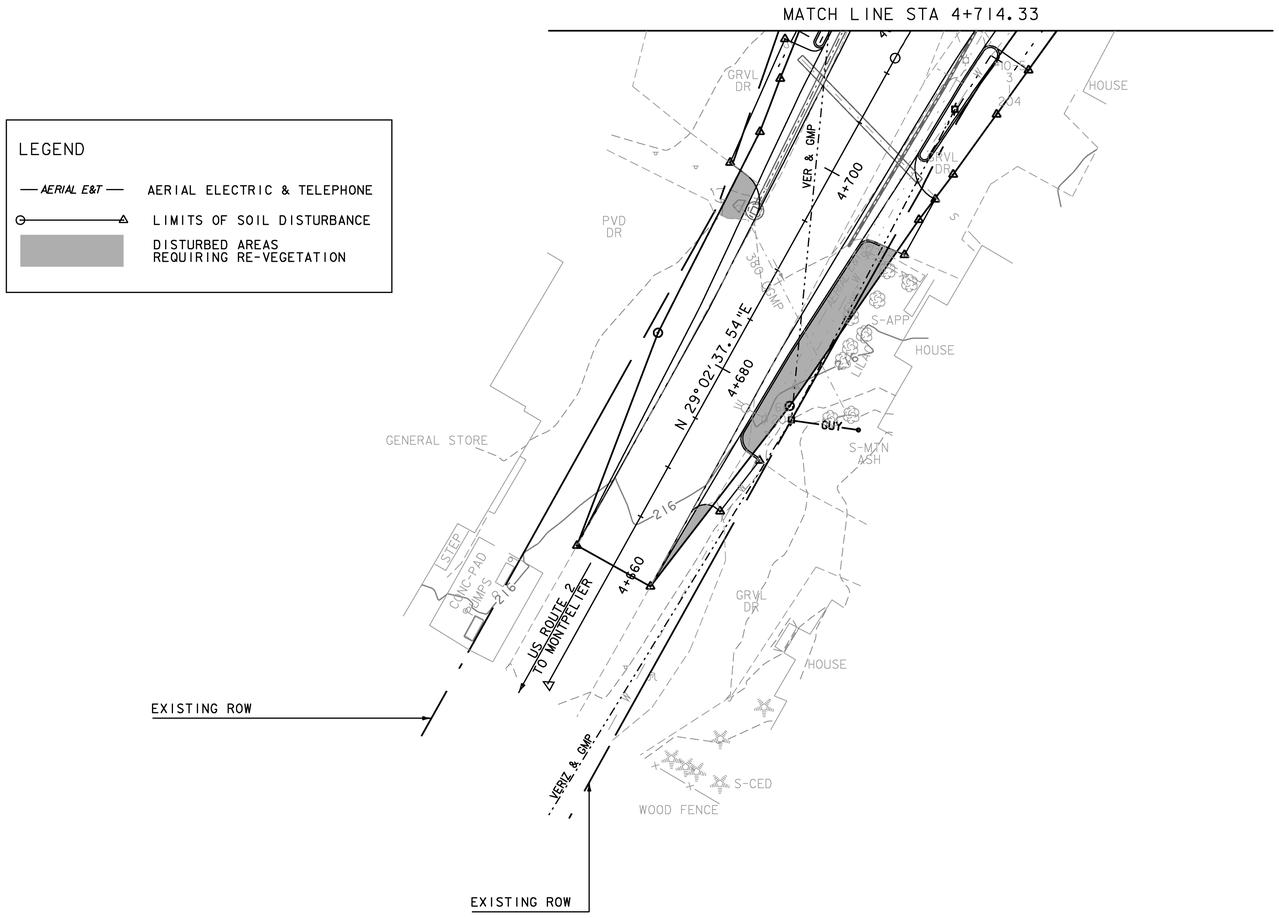
VT STATE PLANE GRID

LEGEND

— AERIAL E&T — AERIAL ELECTRIC & TELEPHONE

LIMITS OF SOIL DISTURBANCE

DISTURBED AREAS REQUIRING RE-VEGETATION



0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER

PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028ecfinalbdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
EPSC FINAL CONDITIONS SHEET 1

PLOT DATE: 22-MAR-2010
DRAWN BY: J. DEVLIN
CHECKED BY: J. SCHULTZ
SHEET 57 OF 142

MATCH LINE STA 100+67.63

MATCH LINE STA 14+093.85

MATCH LINE STA 4+872.87

MATCH LINE STA 4+714.33

LEGEND

AERIAL E&T — AERIAL ELECTRIC & TELEPHONE

LIMITS OF SOIL DISTURBANCE

DISTURBED AREAS REQUIRING RE-VEGETATION

N

VT STATE PLANE GRID

EXISTING ROW

EXISTING ROW

QUAKER HILL ROAD

S20° 48' 19.82"W

N 46° 48' 46.53"W

S 81° 26' 41.69"E

N 0° 54' 36.70"W

POB 0+000.000

0 10 20 30

SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028ecfinalbdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. SCHULTZ
EPSC FINAL CONDITIONS SHEET 2	SHEET 58 OF 142

VAOT Metric

N

VT STATE PLANE GRID

MATCH LINE STA 4+872.87

S-SPR

S-BAL

BARN

WELL

GRVL DR

M-APP

SHED

S-ELD

M-ELD

AERIAL E&T

SODOM BROOK

RIPARIAN BUFFER

HVCTRL 6

N 76° 10' 41.77"E

4+880

4+900

4+920

4+940

4+960

4+980

5+000

US ROUTE 2
TO PLAINFIELD

EXISTING ROW

HOUSE

610 CGMP

LEGEND

AERIAL ELECTRIC & TELEPHONE

LIMITS OF SOIL DISTURBANCE

DISTURBED AREAS REQUIRING RE-VEGETATION

0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER

PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028ecfinalbdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
EPSC FINAL CONDITIONS SHEET 3

PLOT DATE: 22-MAR-2010
DRAWN BY: J. DEVLIN
CHECKED BY: J. SCHULTZ
SHEET 59 OF 142

N

VT STATE PLANE GRID

LEGEND

— AERIAL E&T — AERIAL ELECTRIC & TELEPHONE

LIMITS OF SOIL DISTURBANCE

DISTURBED AREAS REQUIRING RE-VEGETATION

KELTON ROAD

EXISTING ROW

EXISTING ROW

EAST MONTPELIER TOWN OFFICES

N 14° 18' 52.68"E

N 47° 19' 35.18"W

N 65° 30' 42.83"E

VT ROUTE 14 TO CALAIS

VERIZ & GMP

AERIAL E&T EXIST

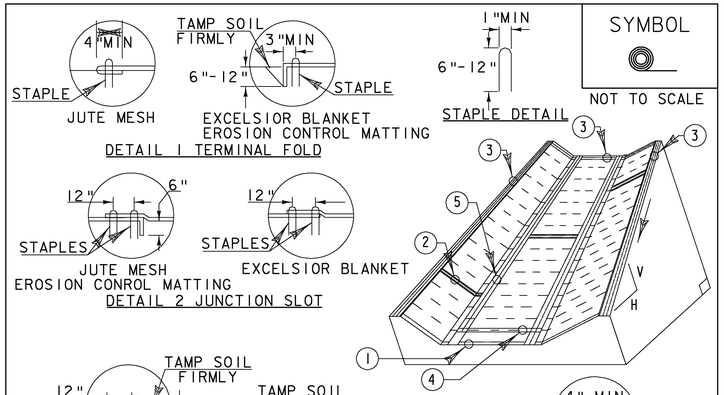
MATCH LINE STA 100+67.63

MATCH LINE STA 14+093.85

0 10 20 30

SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028ecfinalbdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. SCHULTZ
EPSC FINAL CONDITIONS SHEET 4	SHEET 60 OF 142



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

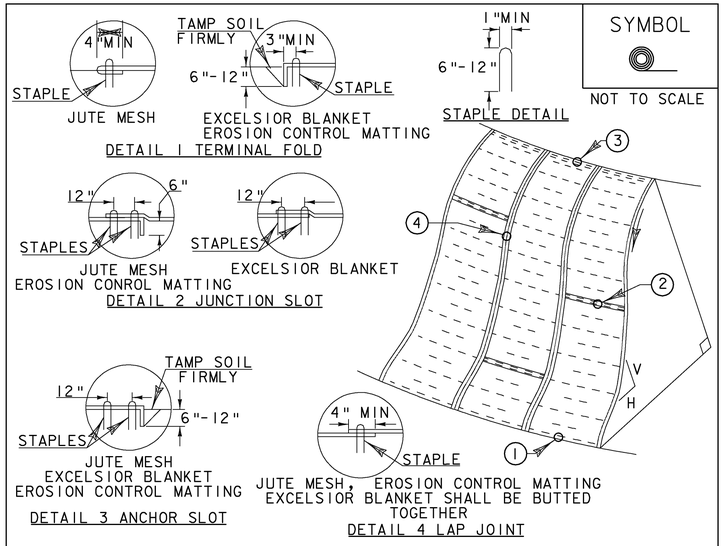
1. EROSION MATTING, CHECK SLOTS, SHALL BE SPACED IN DITCH CHANNEL SO THAT ONE OCCURS WITHIN EACH 50′ ON SLOPES OF MORE THAN 4% AND LESS THAN 6%. ON SLOPES OF 6% OR MORE, THEY SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 25′.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2′ APART AND IN ROWS APPROXIMATELY 3′ APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4′X225′ ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4′X150′ ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION CONTROL PRODUCT (RECP) DITCH

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

REVISIONS	
MARCH 8, 2007	JMF
APRIL 16, 2007	WHF
JANUARY 13, 2009	WHF



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

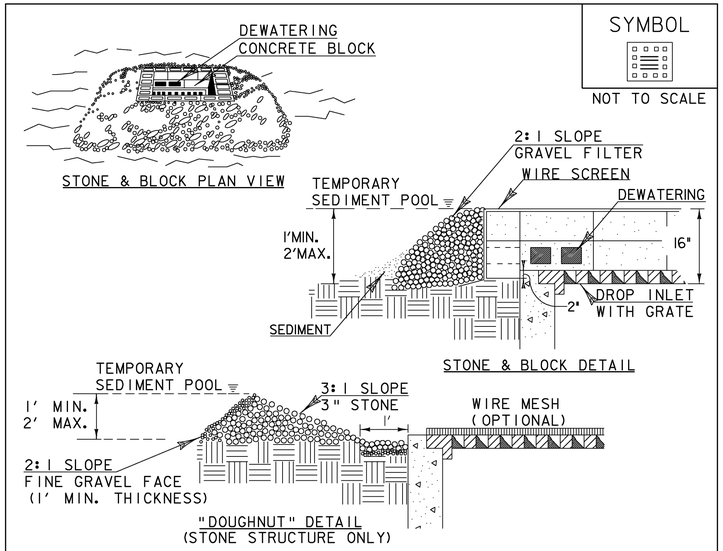
1. APPLY TO SLOPES GREATER THAN 3H: IV OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2′ APART AND IN ROWS APPROXIMATELY 3′ APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4′X225′ ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4′X150′ ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

REVISIONS	
APRIL 16, 2007	JMF
JANUARY 13, 2009	WHF



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2" MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR ½" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL ½"- ¾" IN DIAMETER PLACED 2" BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1′ THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3" STONE AS SHOWN ON THE DRAWINGS.
5. MAXIMUM DRAINAGE AREA 1 ACRE

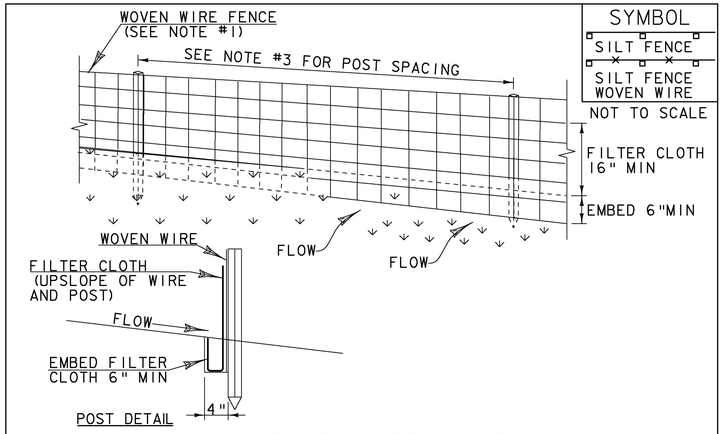
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STONE & BLOCK DROP INLET PROTECTION

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR INLET PROTECTION DEVICE, TYPE I (PAY ITEM 653.40).

REVISIONS	
MARCH 6, 2008	WHF
JANUARY 13, 2009	WHF

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028ecdetails.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: J. DEVLIN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. SCHULTZ
EPSC DETAILS SHEET 1	SHEET 61 OF 142



SYMBOL

SILT FENCE

SILT FENCE WOVEN WIRE

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SILT FENCE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE FOR SILT FENCE (PAY ITEM 649.51) OR GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).

REVISIONS		
MARCH 21, 2008		WHF
DECEMBER 11, 2008		WHF
JANUARY 13, 2009		WHF

VAOT RURAL AREA MIX

	LBS/AC				
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
37.5%	22.5	45	CREEPING RED FESCUE	85%	98%
37.5%	22.5	45	TALL FESCUE	90%	95%
5.0%	3	6	RED TOP	90%	95%
15.0%	9	18	BIRDSFOOT TREFOIL	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	85%	95%
100%	60	120			

VAOT URBAN AREA MIX

	LBS/AC				
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
42.5%	34	68	CREEPING RED FESCUE	85%	98%
10.0%	8	16	PERENNIAL RYE GRASS	90%	95%
42.5%	34	68	KENTUCKY BLUE GRASS	85%	85%
5.0%	4	8	ANNUAL RYE GRASS	85%	95%
100%	80	160			

GENERAL GUIDANCE

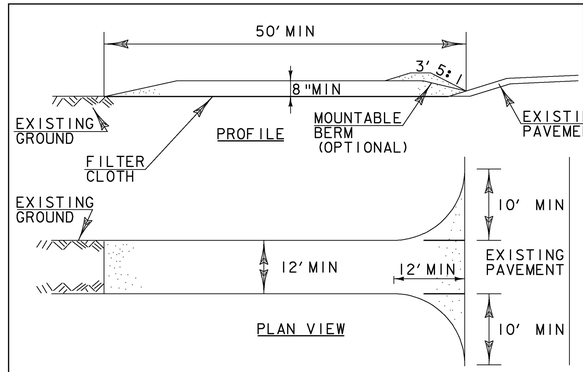
FERTILIZER		LIME	
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED
10/20/2010	19-19-19	PELLETIZED	LIQUID
500 LBS/AC		2 TONS/AC	4.4 GAL/AC

CONSTRUCTION GUIDANCE

1. RURAL SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
2. URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
7. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
8. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

SEED

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.15)



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
3. THICKNESS- NOT LESS THAN 8".
4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STABILIZED CONSTRUCTION ENTRANCE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS		
MARCH 24, 2008		WHF
JANUARY 13, 2009		WHF
FEBRUARY 17, 2010		DLL

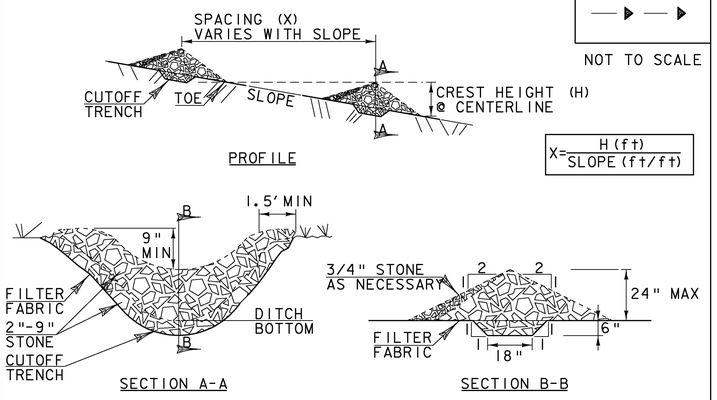
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028ecdetails.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
EPSC DETAILS SHEET 2

PLOT DATE: 22-MAR-2010
DRAWN BY: J. DEVLIN
CHECKED BY: J. SCHULTZ
SHEET 62 OF 142

SYMBOL

NOT TO SCALE



PROFILE

$$X = \frac{H\,(ft)}{SLOPE\,(ft/ft)}$$

SECTION A-A

SECTION B-B

CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
2. CHECK DAMS SHALL BE SPACED SO THAT THE ELEVATION OF THE CREST OFTHE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
3. 3/4" FILTERING STONE MAY BE ADDED TO THE FACE OF THE CHECK DAM AS NECESSARY.
4. EXTEND THE STONE A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
5. PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
6. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
7. MAXIMUM DRAINAGE AREA 2 ACRES.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CHECK DAM

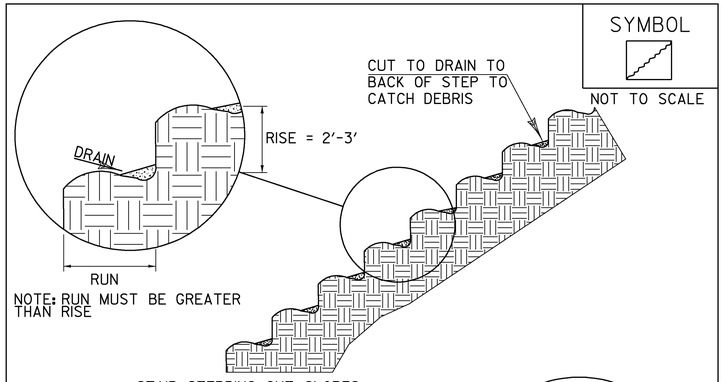
NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR TEMPORARY STONE CHECK DAM, TYPE I (PAY ITEM 653.25)

REVISIONS	
MARCH 21, 2008	WHF
JANUARY 8, 2009	WHF

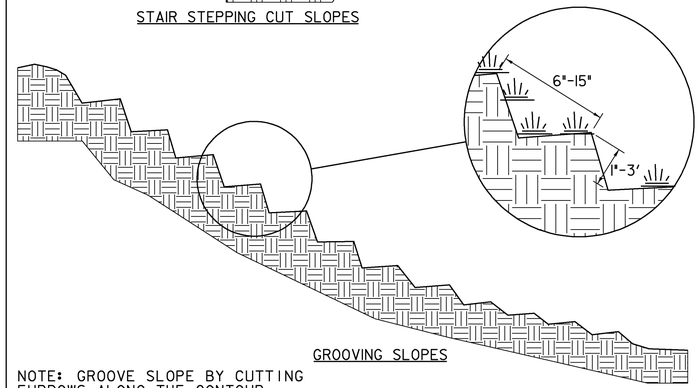
SYMBOL

NOT TO SCALE



NOTE: RUN MUST BE GREATER THAN RISE

STAIR STEPPING CUT SLOPES



GROOVING SLOPES

NOTE: GROOVE SLOPE BY CUTTING FURROWS ALONG THE CONTOUR. IRREGULARITIES IN THE SOIL SURFACE CATCH RAINWATER AND RETAIN LIME, FERTILIZER AND SEED.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SURFACE ROUGHENING

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

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REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF

PROJECT NAME: EAST MONTPELIER
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FILE NAME: t98b028ecdetails.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
EPSC DETAILS SHEET 3

PLOT DATE: 22-MAR-2010
DRAWN BY: J. DEVLIN
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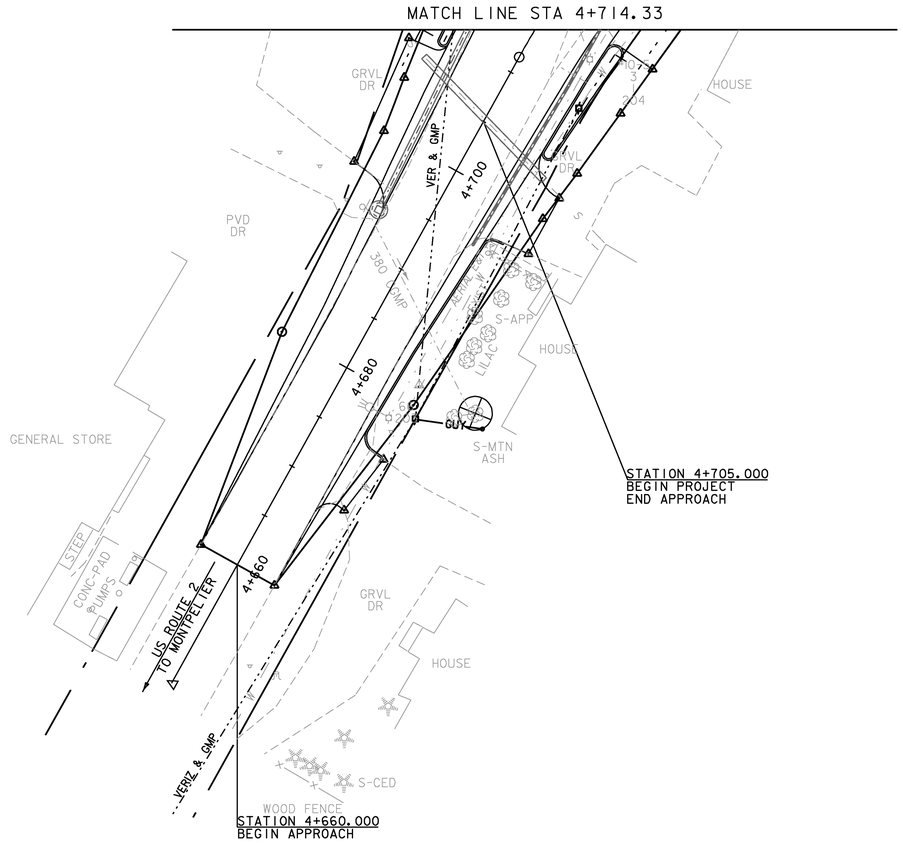
N

VT STATE PLANE GRID



LEGEND
EXISTING WOODLAND
PROPOSED DECIDUOUS TREE
PROPOSED EVERGREEN TREE
PROPOSED SHRUBS
CZ CLEAR ZONE
AER E&T OVERHEAD UTILITY ROUTE
TPZ TREE PROTECTION ZONE
EXISTING TREE/SHRUB
TREE OR STUMP REMOVAL

NOTE: SEE LANDSCAPE AND LIGHTING NOTES SHEET FOR TREE KEY AND WIRED CONDUIT SCHEDULE

0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028lscapebdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
LANDSCAPE AND LIGHTING LAYOUT SHEET 1

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 64 OF 142

Metric

LEGEND

- EXISTING WOODLAND
- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN TREE
- PROPOSED SHRUBS
- CLEAR ZONE (CZ)
- OVERHEAD UTILITY ROUTE (AER E&T)
- TREE PROTECTION ZONE (TPZ)
- EXISTING TREE/SHRUB
- TREE OR STUMP REMOVAL

MATCH LINE STA 100+67.63

MATCH LINE STA 14+093.85

MATCH LINE STA 4+714.33

MATCH LINE STA 4+872.87

N

VT STATE PLANE GRID

678.23 WIRED CONDUIT (50MM) (PVC) (SCH 80)
SEE LANDSCAPE AND LIGHTING NOTES SHEET

656.85 TREE PROTECTION
STA 4+759.58 RT - 4+797.59 RT - 3 TREES
STA 14+052.44 RT - 14+057.06 RT - 1LILAC

678.25 PULL BOX, STANDARD
STA 100+083.65 LT
STA 100+086.05 RT
STA 100+084.25 RT

678.30 ELECTRICAL CONDUIT SLEEVE (200MM) (PVC) (SCH 80)
STA 100+083.74 LT - 100+085.95 LT
STA 100+067.79 RT - 100+083.86 RT

679.21 LIGHT POLE BASE
STA 100+087.00 RT (4.0M OFFSET) - LP2
STA 100+113.00 RT (4.0M OFFSET) - LP3

679.23 BREAKAWAY FEATURE FOR LIGHT POLE
STA 100+087.00 RT (4.0M OFFSET) - LP2
STA 100+113.00 RT (4.0M OFFSET) - LP3

679.45 LIGHT POLE
STA 100+087.00 RT - (4.0M OFFSET) - LP2
STA 100+113.00 RT - (4.0M OFFSET) - LP3

679.47 BRACKET ARM (2.1M)
STA 4+790.00 LT (MAST ARM #1) - LPT

679.50 LUMINARE
STA 4+790.00 LT - 400W -HPS SEMI-CUTOFF (MAST ARM #1) - LPT
STA 100+087.00 RT - 100W - MH (4.0M OFFSET) - LP2
STA 100+113.00 RT - 100W - MH (4.0M OFFSET) - LP3

679.55 POWER DROP STANCHION, STREET LIGHTING
STA 100+083.44 LT

NOTE: SEE LANDSCAPE AND LIGHTING NOTES SHEET FOR TREE KEY AND WIRED CONDUIT SCHEDULE

0 10 20 30

SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028lscapebdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
LANDSCAPE AND LIGHTING LAYOUT SHEET 2	SHEET 65 OF 142

VAOT Metric

N

VT STATE PLANE GRID

S-SPR

S-BAL

SODOM BROOK

RIPARIAN BUFFER

HVCTRL 6

STATION 4+885.000
END PROJECT
BEGIN APPROACH

BARN

WELL

GRVL DR

M-ELD

SLOPE SEED MIX

S-ELD

M-APP

SHED

AERIAL E&T

4+880

4+900

4+920

4+940

US ROUTE 2
TO PLAINFIELD

4+960

4+980

5+000

STATION 4+930.000
END APPROACH

HOUSE

610 CGMP

MATCH LINE STA 4+872.87

LEGEND

- EXISTING WOODLAND
- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN TREE
- PROPOSED SHRUBS
- CLEAR ZONE (CZ)
- AERIAL E&T — OVERHEAD UTILITY ROUTE
- TPZ — TREE PROTECTION ZONE
- EXISTING TREE/SHRUB
- TREE OR STUMP REMOVAL

NOTE: SEE LANDSCAPE AND LIGHTING NOTES SHEET FOR TREE KEY AND WIRED CONDUIT SCHEDULE

0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028lscapebdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
LANDSCAPE AND LIGHTING LAYOUT SHEET 3

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN

N

VT STATE PLANE GRID

656.85 TREE PROTECTION
STA 30+027.05 RT - 30+042.67 RT - 2 SMALL APPLE TREES

678.25 PULL BOX, STANDARD
STA 100+067.40 RT

678.30 ELECTRICAL CONDUIT SLEEVE
(200MM) (PVC) (SCH 80)
STA 100+067.79 RT - 100+083.86 RT

679.21 LIGHT POLE BASE
STA 100+041.50 RT (4.5M OFFSET) - LP4
STA 100+066.00 RT (5.5M OFFSET) = LP5

679.23 BREAKAWAY FEATURE FOR LIGHT POLE
STA 100+041.50 RT (4.5M OFFSET) - LP4
STA 100+066.00 RT (5.5M OFFSET) - LP5

679.45 LIGHT POLE
STA 100+041.50 RT (4.5M OFFSET) - LP4
STA 100+066.00 RT (5.5M OFFSET) - LP5

679.50 LUMINARE
STA 100+041.50 RT - 100W - MH (4.5M OFFSET) - LP4
STA 100+066.00 RT - 100W - MH (5.5M OFFSET) - LP5

LEGEND

- EXISTING WOODLAND
- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN TREE
- PROPOSED SHRUBS
- CZ — CLEAR ZONE
- AER E&T — OVERHEAD UTILITY ROUTE
- TPZ — TREE PROTECTION ZONE
- EXISTING TREE/SHRUB
- TREE OR STUMP REMOVAL

30+070.000
END CONSTRUCTION

KELTON ROAD

678.23 WIRED CONDUIT (50MM) (PVC) (SCH 80)
SEE LANDSCAPE AND LIGHTING NOTES SHEET

EAST MONTPELIER TOWN OFFICES

N 14° 18' 52.68" E

N 47° 18' 53.18" W

VERIZ & GMP

AERIAL E&T EAST

AERIAL E&T EXIST

AERIAL E&T W

VT ROUTE 14 TO CALAIS

STATION 14+255.000
END APPROACH

STATION 14+210.000
END PROJECT
BEGIN APPROACH

310 CGMP

MATCH LINE STA 100+67.63

MATCH LINE STA 14+093.85

NOTE: SEE LANDSCAPE AND LIGHTING NOTES SHEET FOR TREE KEY AND WIRED CONDUIT SCHEDULE

0 10 20 30

SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028lscapebdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
LANDSCAPE AND LIGHTING LAYOUT SHEET 4	SHEET 67 OF 142

PLANT LIST

PLANT LIST - EAST MONTPELIER STPG 028-3(35)S						
QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING, REMARKS, ITEMS
		656.20 - EVERGREEN TREES				**ITEM No. 656.20**
12	PG	PICEA GLAUCA	WHITE SPRUCE	2.1 - 2.4 m HEIGHT	B&B	AS SHOWN - SPRING PLANTING
		656.30 - SMALL DECIDUOUS TREES				**ITEM No. 656.30**
3	AAB	AMELANCHIER "AUTUMN BRILLIANCE"	SERVICEBERRY "AUTUMN BRILLIANCE"	0.045 - 0.050 m CAL.	B&B	AS SHOWN - SPRING PLANTING
2	LM	MAGNOLIA X LOEBNERI "LEONARD MESSEL"	"LEONARD MESSEL" MAGNOLIA	0.045 - 0.050 m CAL.	B&B	AS SHOWN - SPRING PLANTING
2	MA	MALUS "ADAMS"	"ADAMS" CRABAPPLE	0.045 - 0.050 m CAL.	B&B	AS SHOWN - SPRING PLANTING
2	MDW	MALUS "DONALD WYMAN"	"DONALD WYMAN" CRABAPPLE	0.045 - 0.050 m CAL.	B&B	AS SHOWN - SPRING PLANTING
2	MHG	MALUS "HARVEST GOLD"	"HARVEST GOLD" CARBAPPLE	0.045 - 0.050 m CAL.	B&B	AS SHOWN - SPRING PLANTING
1	MPF	MALUS "PRAIRIE FIRE"	"PRAIRIE FIRE" CRABAPPLE	0.045 - 0.050 m CAL.	B&B	AS SHOWN - SPRING PLANTING
3	MST	MALUS "SUGAR TYME"	"SUGAR TYME" CRABAPPLE	0.045 - 0.050 m CAL.	B&B	AS SHOWN - SPRING PLANTING
7	SR	SYRINGA RETICULATA "IVORY SILK"	"IVORY SILK" TREE LILAC	0.045 - 0.050 m CAL.	B&B	AS SHOWN - SPRING PLANTING
		656.30 - LARGE DECIDUOUS TREES				**ITEM No. 656.30**
3	AF	ACER FREMANII X AUTUMN BLAZE	"AUTUMN BLAZE" MAPLE	0.050 - 0.065 m CAL.	B&B	AS SHOWN - SPRING PLANTING
7	BN	BELTA NIGRA "HERITAGE"	"HERITAGE RIVER BIRCH"	0.050 - 0.065 m CAL.	B&B	AS SHOWN - SPRING PLANTING
3	FP	FRAXINUS PENNSYLVANICA "SUMMIT"	"SUMMIT" GREEN ASH	0.050 - 0.065 m CAL.	B&B	AS SHOWN - SPRING PLANTING
2	GT	GLEDITSIA TRIACANTHOS INERMIS "SHADEMASTER"	"SHADEMASTER" HONEYLOCUST	0.050 - 0.065 m CAL.	B&B	AS SHOWN - SPRING PLANTING
1	TC	TILIA CORDATA "GREENSPIRE"	LINDEN "GREENSPIRE"	0.050 - 0.065 m CAL.	B&B	AS SHOWN - SPRING PLANTING
1	QM	QUERCUS MACROCARPA	BURR OAK	0.050 - 0.065 m CAL.	B&B	AS SHOWN - SPRING PLANTING
6	QR	QUERCUS RUBRA	RED OAK	0.050 - 0.065 m CAL.	B&B	AS SHOWN - SPRING PLANTING
8	UP	ULMUS AMERICANA "PRINCETON"	"PRINCETON" ELM	0.050 - 0.065 m CAL.	B&B	AS SHOWN - SPRING PLANTING
3	UVF	ULMUS AMERICANA "VALLEY FORGE"	"VALLEY FORGE" ELM	0.050 - 0.065 m CAL.	B&B	AS SHOWN - SPRING PLANTING
		656.35 - DECIDUOUS SHRUBS				**ITEM No. 656.35**
10	CAH	CLETHRA ALNIFOLIA "HUMMINGBIRD"	HUMMINGBIRD SUMMERSWEET	0.45 m HEIGHT	CONTAINER	1.00 m o.c. - SPRING PLANTING
12	CA	CLETHRA ALNIFOLIA "RUBY SPICE"	RUBY SPICE SUMMERSWEET	0.60 m HEIGHT	CONTAINER	1.00 m o.c. - SPRING PLANTING
16	HA	HYDRANGEA ARBORESCENS "ANNABELLE"	ANNABELLE HYDRANGEA	0.60 m HEIGHT	CONTAINER	1.00 m o.c. - SPRING PLANTING
4	IVJ	ILEX VERTICILATA "JIM DANDY"	WINTERBERRY "JIM DANDY"	0.90 m HEIGHT	CONTAINER	1.00 m o.c. - SPRING PLANTING
14	IVA	ILEX VERTICILATA "AFTERGLOW"	WINTERBERRY "AFTERGLOW"	0.90 m HEIGHT	CONTAINER	1.00 m o.c. - SPRING PLANTING
18	SGM	SPIREA X "GOLD MOUND"	"GOLD MOUND" SPIREA	0.45 m HEIGHT	CONTAINER	1.00 m o.c. - SPRING PLANTING
3	SV	SYRINGA VULGARIS	COMMON LILAC	0.90 m HEIGHT	CONTAINER	1.20 m o.c. - SPRING PLANTING
12	SB	SPIREA X BULMALDA "GOLD FLAME"	"GOLD FLAME" SPIREA	0.60 m HEIGHT	CONTAINER	1.00 m o.c. - SPRING PLANTING

GENERAL LANDSCAPE NOTES:

1. FOLLOW STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2006, AS MODIFIED, SECTION 656 AND SECTION 755.

2. SEE SUBSECTION 755.07 FOR THE APPLICATION OF MYCORRHIZAL FUNGI PER MANUFACTURER'S RECOMMENDATIONS. LANDSCAPING BACKFILL MIX SHALL COMPLY WITH SUBSECTION 755.01, TOPSOIL 755.02, AND COMPOST 755.05 SHALL COMPLY WITH THE RECOMMENDED AMOUNT OF ORGANIC MATERIAL AS SPECIFIED.

3. LANDSCAPE BACKFILL MIX SHALL BE TESTED FOR ORGANIC MATERIAL OF 8.6%.

4. CONTRACTOR SHALL PROVIDE A LOG TO THE RESIDENT SHOWING DATES OF WATERING AND NOTING NATURAL RAINFALL EVENTS WHEN NO WATERING OCCURS. WATERING SHALL COMPLY WITH SUBSECTION 656.08 (F.) WATERING.

5. BARK MULCH SHALL CONFORM TO THE MATERIALS REQUIREMENTS OF SUBSECTION 755.10 (C) BARK MULCH FOR CEDAR AND PINE ONLY.

TREE PROTECTION NOTES:

1. DURING CONSTRUCTION: PROTECT TREES TO BE SAVED BY ERECTING BARRIER FENCE JUST AT LIMIT OF CONSTRUCTION AS INDICATED (PLEASE SEE LANDSCAPE PLANS AND TREE PROTECTION DETAIL). INSTALL SIGNAGE AT EACH PROTECTION ZONE WHICH CLEARLY READS: "TREES ARE BEING PROTECTED. NO UNAUTHORIZED TRESPASS IS ALLOWED".

2. AVOID CUTTING ROOTS OF TREES WHENEVER POSSIBLE. WHEN AVOIDANCE IS NOT POSSIBLE, CUT ROOTS FLUSH (SAW THOSE ROOTS GREATER THAN 25 MM WIDE), WHICH WILL ENCOURAGE NEW ROOT GROWTH. DO NOT RIP ROOTS WITH EXCAVATOR OR OTHER HEAVY EQUIPMENT.

3. BACKFILL AS SOON AS POSSIBLE; KEEP ROOT ENDS MOIST WITH WET BURLAP OR SIMILAR MATERIAL UNTIL ABLE TO BACKFILL. ADD A ROOT STIMULATOR SUCH AS MYCORRHIZAL FUNGI PER MANUFACTURER'S INSTRUCTIONS, AND WATER (PER APPROVED WATERING SPECIFICATIONS) THE ENTIRE BACKFILL AREA WITHIN 24 HOURS.

4. NO EXCAVATED OR BACKFILL MATERIAL SHALL BE PILED IN TREE PROTECTION ZONE; NO EQUIPMENT SHALL BE STORED OR PILED IN TREE PROTECTION ZONE.

5. IF A PROTECTED TREE IS DAMAGED DUE TO THE CONTRACTOR'S NEGLIGENCE AND IS NOT REPAIRABLE (AS DETERMINED BY THE ENGINEER OR VAOT LANDSCAPE ARCHITECT), THEN THE CONTRACTOR SHALL REPLACE THE TREE (AT THE CONTRACTOR'S EXPENSE AND ACCORDING TO APPROVED PLANTING TECHNIQUES) WITH THE SAME TREE OF EQUAL VALUE, OR TWO OR MORE TREES WITH A TOTAL VALUE EQUAL TO THAT OF THE DAMAGED TREE. IN ADDITION, WITH THE EXCEPTION OF FENCING, ALL TREE PROTECTION MEASURES, ROOT PRUNING, AND OTHER MATERIALS WILL NOT BE PAID SEPARATELY, BUT WILL BE CONSIDERED INCIDENTAL TO ALL OTHER LANDSCAPING CONTRACT ITEMS.

LIGHTING NOTES:

1. POLYMER CONCRETE AND REINFORCED FIBERGLASS U.L. LISTED PULLBOXES SHALL BE INSTALLED WITH HEAVY DUTY COVERS.

2. THE CONTRACTOR SHALL ACQUIRE ALL NECESSARY PERMITS AND MAKE ALL NECESSARY ARRANGEMENTS WITH THE UTILITY COMPANY TO PROVIDE A PERMANENT POWER SUPPLY TO THE STREET LIGHTING SYSTEM. IF APPLICABLE, THE ROUTING OF POWER TO THE INTERSECTION SHALL BE SUCH THAT THE AGENCY OF TRANSPORTATION HAS FULL RESPONSIBILITY FROM THE TRANSFORMER THROUGH THE LIGHTING SYSTEM. NO INTERVENING OWNERSHIP OR RESPONSIBILITY SHALL BE ALLOWED.

3. LP2, LP3, LP4, AND LP5 SHALL BE HOLOPHANE GRANVILLE PREMIER, 100 WATT METAL HALIDE (4.88 M MOUNTING HEIGHT) OR APPROVED EQUAL. ALL CORRESPONDING LIGHT POLES, BASES, AND HARDWARE SHALL BE BLACK FINISH.

WIRED CONDUIT SCHEDULE:

678.23 - WIRED CONDUIT	CONDUIT SIZE	DESCRIPTION
	50mm	
POWER TO STANCHION	15.0M	*POWER
STANCHION TO LPB1	5.3M	POWER
LPB1 TO LPB2	23.6M (2x11.8M)	POWER
LPB2 TO LP3	6.4M	POWER
LP3 TO LP2	28.0M	POWER
LPB2 TO LPB3	6.8M	POWER
LPB3 TO LPB4	18.9M	POWER
LPB4 TO LP4	3.4M	POWER
LP4 TO LP5	27.1M	POWER
SUBTOTALS	134.5 M	
ROUNDING	5.5 M	
TOTALS	140.0 M	

*-CONDUIT QUANTITY INCLUDES PVC RUN ON UTILITY POLE

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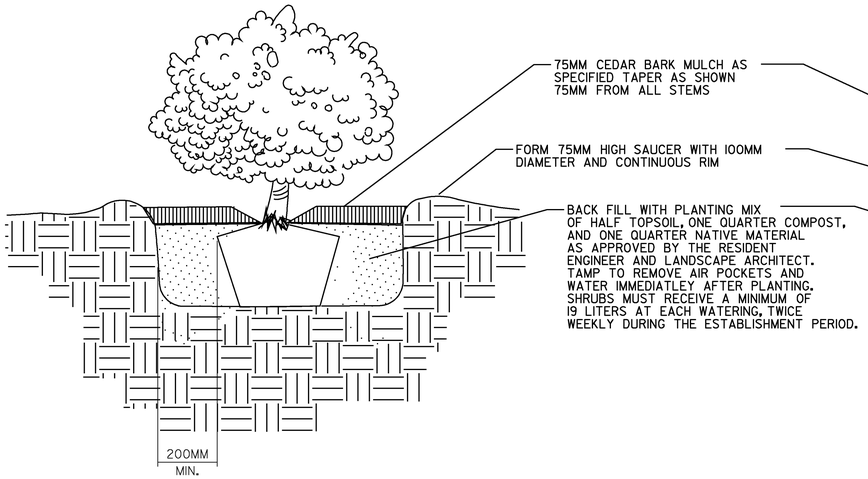
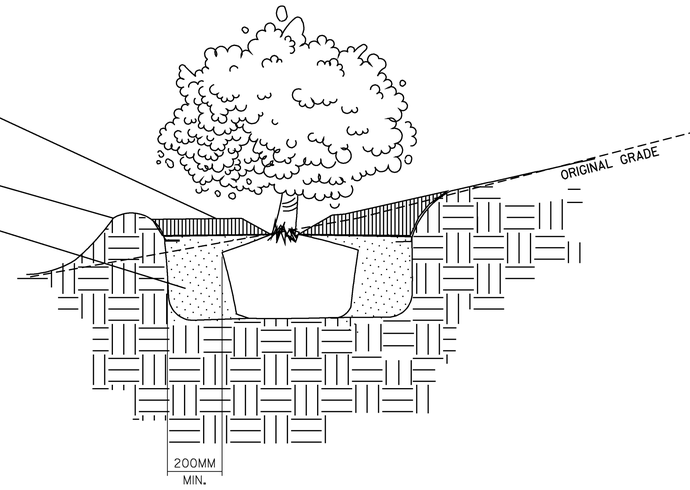
LANDSCAPE AND LIGHTING NOTES SHEET

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 68 OF 142

LANDSCAPE DETAILS



SHRUB PLANTING DETAIL
NOT TO SCALE



SHRUB PLANTING ON SLOPES DETAIL
NOT TO SCALE

TREE WATERING BAG SOURCES ARE LISTED BELOW:

NORTHERN NURSERIES, INC. @
WHITE RIVER
2234 NORTH HARTLAND ROAD
(US ROUTE 5)
WHITE RIVER JUNCTION, VT 05001
PHONE: 802-295-2117

JOHN DEERE LANDSCAPES @
MANCHESTER
8030 SOUTH WILLOW STREET
MANCHESTER, NH 03103
PHONE: 603-621-2900

BEN MEADOWS COMPANY
P.O. BOX 5277
JANESVILLE, WI 53547-5277
PHONE: 800-628-2068

A.M. LEONARD, INC.
HORTICULTURAL PRODUCTS
241 FOX DRIVE
P.O. BOX 816
PIQUA, OH 45356-0816

PLANT SOURCES ARE LISTED BELOW:

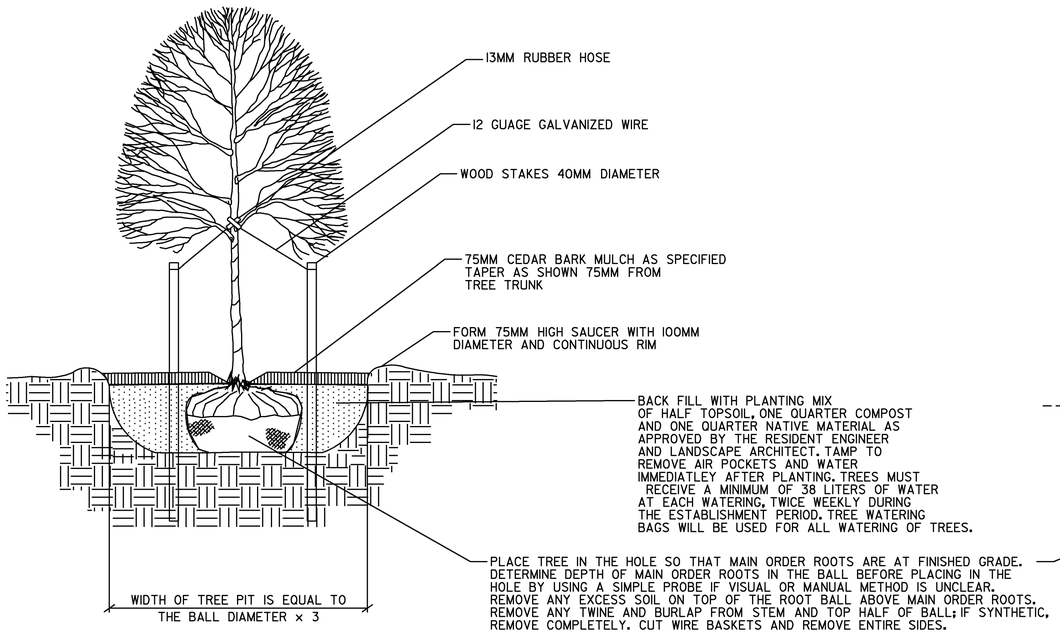
HORSEFORD GARDENS & NURSERY
211 GREENBUSH RD.
CHARLOTTE, VT 05445
802-425-2811
LORI TAXTER

HIGH REACH FARM
2847 TAMPICO RD.
DANVILLE, VT 05828
802-748-3512
STEVE PARKER & SUSANNE TERRY

COBBLE CREEK NURSERY
WHOLESALE GROWERS
RD #2, BOX 3850
BRISTOL, VT 05433
802-453-3889
JOHN PADUA

ELMORE ROOTS NURSERY
PO BOX 171
ELMORE, VT 05657
1-800-42PLANT OR 888-3305
WWW.ELMOREROOTS.COM
DAVID L. FRIED

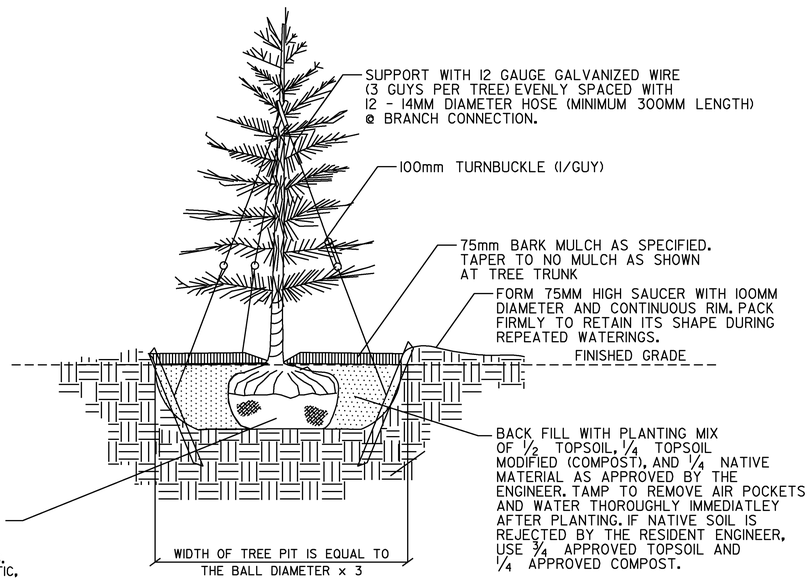
4 SEASONS GARDEN CENTER
427 MARSHALL AVENUE
WILLISTON, VT 05495
802-862-6036
COMMERCIAL@4SEASONSGC.COM



DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE

NOTES:

1. STAKE ONLY THOSE TREES PLANTED IN WINDY, EXPOSED LOCATIONS WHERE THEY MIGHT BE BLOWN OVER OR VANDALIZED AS DETERMINED BY RESIDENT ENGINEER OR LANDSCAPE ARCHITECT.
2. COMPLETELY REMOVE ALL GUY WIRES, RUBBER HOSE, AND STAKES ONE YEAR AFTER PLANTING.



EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE

NOTES

1. ANTI-DESICCANT SPRAY IS TO BE APPLIED TO ALL EVERGREENS PER MANUFACTURER SPECIFICATIONS.

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028lscapebdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
LANDSCAPE DETAIL SHEET	SHEET 69 OF 142

LIST OF MAJOR EQUIPMENT	
ITEM # 678.15 (US 2 & VT 14)	QUANTITY
MAST ARM POLES	2
POWER METER ON STANCHION	1
NEW 12" TRAFFIC SIGNAL HEADS W/ TUNNEL VISORS, DISCONNECT HANGERS & MOUNTING HARDWARE.	
ONE-WAY 3 SECTION	5
ONE-WAY 5 SECTION	2
GROUND MNT. CABINET/CONTROLLER	1
MAST ARMS	3
BACKPLATES	7
VIDEO VEHICLE DETECTION CAMERAS	3

CONTROLLER TIMING CHART									
US ROUTE 2 & VT ROUTE 14									
		US2		VT14	US2	US2			
PHASE	1	2	3	4	5	6	7	8	9
TRAFFIC MOVEMENT		->		↓	↱	<-			
MINIMUM GREEN		8		8	5	8			
MAXIMUM 1 GREEN		35		13	10	19			
MAXIMUM 2 GREEN		34		14	8	20			
MAXIMUM 3 GREEN		37		11	15	16			
YELLOW CLEARANCE		4		4	4	4			
ALL RED CLEARANCE		2		2	2	2			
VEH. EXTENSION		2		2	2	2			
WALK (MAN)									7
PED CLEAR (HAND)									14

CONTROLLER TO OPERATE MAXIMUM 2 GREEN TIMINGS FROM 6:00AM-9:00AM
CONTROLLER TO OPERATE MAXIMUM 1 GREEN TIMINGS FROM 9:00AM-3:00PM & 6:00PM-6:00AM
CONTROLLER TO OPERATE MAXIMUM 3 GREEN TIMINGS FROM 3:00PM-6:00PM

678.15 TRAFFIC CONTROL SIGNAL SYSTEM, INTERSECTION

MAST ARM POLES
STA 14+039.22 LT (13.62M LT) MA1
STA 4+803.59 RT (9.73M RT) MA2

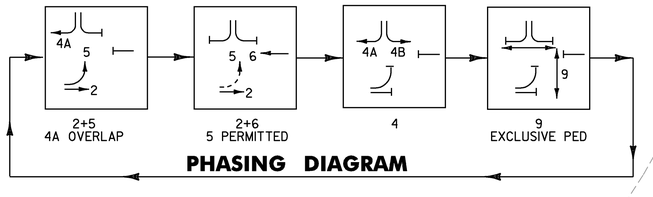
PEDESTRIAN SIGNAL POLES
STA 14+040.00 RT (11.63M LT) P1
STA 4+814.28 LT (10.62M LT) P2
STA 4+810.48 RT (8.29M RT) P3

CABINET/CONTROLLER
STA 14+047.50 RT (8.45M RT)

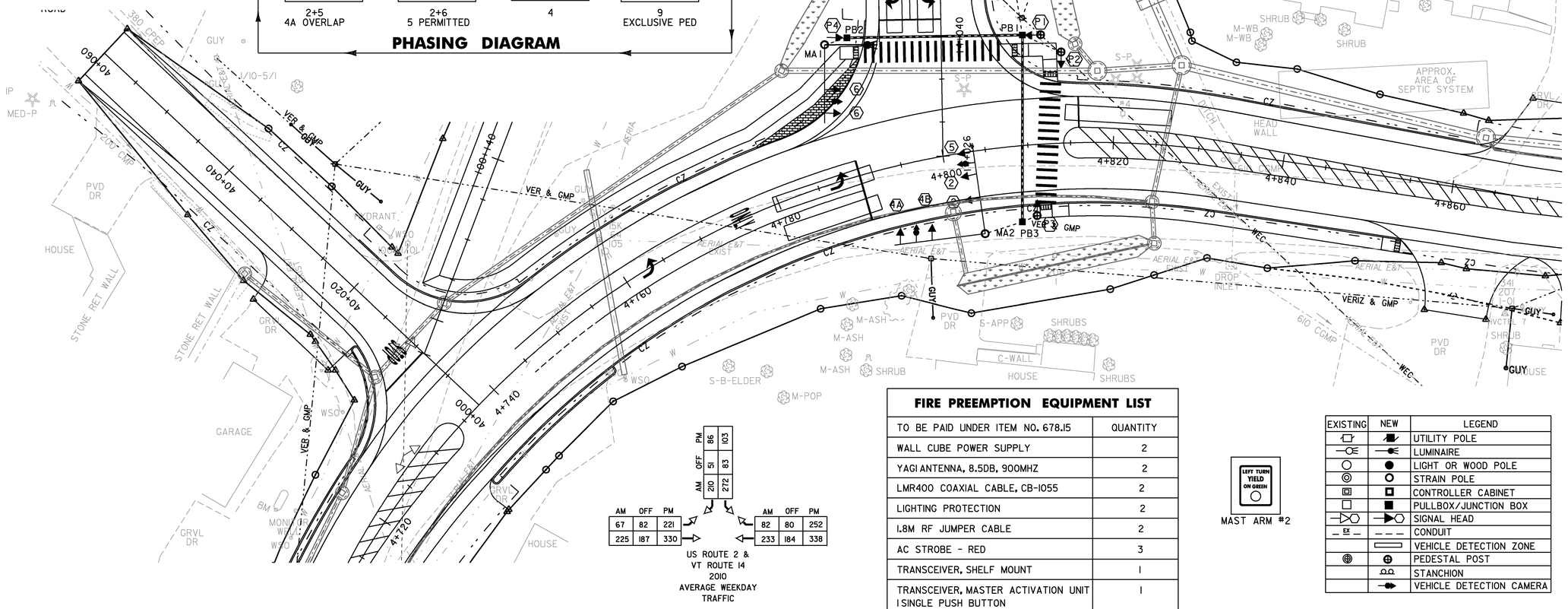
POWER STANCHION
STA 14+047.50 RT (11.59M RT)

678.25 PULL BOX, STANDARD
STA 14+040.00 RT PB1
STA 14+040.00 LT PB2
STA 4+808.53 RT PB3

678.30 ELECTRICAL CONDUIT SLEEVE (200MM) (PVC) (SCH 80)
STA 14+040.00 LT - 14+040.00 RT
STA 4+810.31 LT - 4+808.56 RT



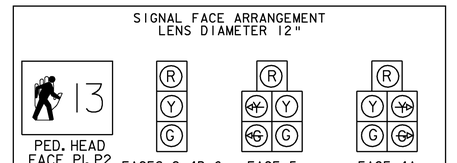
PHASING DIAGRAM



678.23 - WIRED CONDUIT	CONDUIT SIZE 50mm	DESCRIPTION
POWER TO STANCHION	17.0M	*POWER
STANCHION TO CONTROLLER	5.1M	POWER
CONTROLLER TO PB1	19.2M (2x9.6M)	POWER/VIDEO
PB1 TO PB2	45.0M (2X22.5M)	POWER/VIDEO
MA1 TO PB2	9.4M (2X4.7M)	POWER/VIDEO
PED1 TO PB1	4.1M	POWER
PED2 TO PB1	6.9M	POWER
PB3 TO PB1	47.6M (2X23.8M)	POWER/VIDEO
PED3 TO PB3	3.9M	POWER
MA2 TO PB3	13.2M (2X6.6M)	POWER/VIDEO
SUBTOTALS	171.4 M	
ROUNDING	3.6 M	
TOTALS	175.0 M	

*-CONDUIT QUANTITY INCLUDES PVC RUN ON UTILITY POLE

SIGNAL FACE ARRANGEMENT
LENS DIAMETER 12"



ALL HEADS TO BE LED'S

FIRE PREEMPTION EQUIPMENT LIST	
TO BE PAID UNDER ITEM NO. 678.15	QUANTITY
WALL CUBE POWER SUPPLY	2
YAGI ANTENNA, 8.5DB, 900MHZ	2
LMR400 COAXIAL CABLE, CB-1055	2
LIGHTING PROTECTION	2
1.8M RF JUMPER CABLE	2
AC STROBE - RED	3
TRANSCEIVER, SHELF MOUNT	1
TRANSCEIVER, MASTER ACTIVATION UNIT I SINGLE PUSH BUTTON	1

US ROUTE 2 & VT ROUTE 14
2010
AVERAGE WEEKDAY TRAFFIC

MAST ARM #2

EXISTING	NEW	LEGEND
		UTILITY POLE
		LUMINAIRE
		LIGHT OR WOOD POLE
		STRAIN POLE
		CONTROLLER CABINET
		PULLBOX/JUNCTION BOX
		SIGNAL HEAD
EX		CONDUIT
		VEHICLE DETECTION ZONE
		PEDESTAL POST
		STANCHION
		VEHICLE DETECTION CAMERA

0 10 20 30
SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028traf.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TRAFFIC LAYOUT SHEET

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 70 OF 142

TRAFFIC SIGNAL NOTES

A. NEW SIGNAL EQUIPMENT

1. ALL SIGNAL HEADS SHALL HAVE POLYCARBONATE SECTIONS AND LENSES. THE SIGNAL HEADS SHALL HAVE FLAT BLACK HOUSINGS AND VISORS.
2. ALL SIGNAL HEADS SHALL HAVE BLACK LOUVERED BACK PLATES.
3. THE TRAFFIC SIGNAL CONTROLLER AND RELATED EQUIPMENT SHALL BE MANUFACTURED BY ECONOLITE CONTROL PRODUCTS, INC. OR NAZTEC, INC. CONTROLLER SHALL BE (NEMA TS2) IN A NEMA P44 TRAFFIC CONTROL CABINET WITH BASE EXTENSION INSTALLED AT THE LOCATION SHOWN ON TRAFFIC LAYOUT SHEET.
4. ALL SIGNAL HEADS SHALL HAVE RED, YELLOW AND GREEN LED SIGNALS WITH A VISIBLE BEAM SPREAD OF 80 DEGREES OFF AXIS.

B. SIGNAL OPERATION

1. SWITCH-OVER TO NEW SIGNAL SYSTEM SHALL NOT BE DONE DURING PEAK TRAFFIC PERIODS. UNIFORMED TRAFFIC OFFICERS SHALL CONTROL TRAFFIC DURING SWITCH-OVER.
2. ALL SIGNALS SHALL DWELL ON THE US ROUTE 2 THRU MOVEMENT.
3. THE US ROUTE 2 THRU PHASE SHALL BE USED FOR THE START-UP PHASE FOLLOWING FLASHING OPERATION.
4. SIGNAL TIMING SHOWN ON THE PLANS MAY REQUIRE FINE-TUNING IN THE FIELD BASED ON TRAFFIC OBSERVATION AND/OR ADDITIONAL FIELD STUDIES.

C. PULLBOXES AND JUNCTION BOXES

1. PULLBOXES AND JUNCTION BOXES ARE DETAILED ON STANDARD E-173. MINIMUM JUNCTION BOX SIZE SHALL BE 450MM x 300MM x 300MM, OR LARGER AS REQUIRED BY THE ELECTRICAL CODE.
2. THE LOGO ON PULLBOXES / JUNCTION BOXES SHALL BE "TRAFFIC SIGNAL"

D. TRAFFIC SIGNAL CONDUIT

1. ALL TRAFFIC SIGNAL CONDUIT SHALL BE SCHEDULE 80 PVC.

E. VIDEO DETECTION CAMERAS

1. VIDEO VEHICLE DETECTORS SHALL BE PLACED SO THAT OCCLUSION IS MINIMIZED AND PHASING IS NOT AFFECTED.
2. VIDEO VEHICLE DETECTION AREAS SHALL EXTEND 1.5M PAST THE STOP BAR.
3. VIDEO VEHICLE DETECTION SYSTEM SHALL BE ECONOLITE AUTOSCOPE SOLO TERRA OR ITERIS VERSICAM OR TRAFICON VIP SERIES OR APPROVED EQUAL.
4. SEE THE SPECIAL PROVISIONS FOR A DETAILED LIST OF EQUIPMENT.

F. FIRE PREEMPTION SYSTEM

1. THE FIRE PREEMPTION EQUIPMENT TO BE INSTALLED INSIDE THE CABINET: A WALL CUBE POWER SUPPLY, YAGI ANTENNA, 8.5DB, 900MHZ, LMR400 COAXIAL CABLE, CB-1055, LIGHTING PROTECTION, 1.8M RF JUMPER CABLE, AND A TRANSRECEIVER, SHELF MOUNT.
2. THE FIRE PREEMPTION EQUIPMENT TO BE INSTALLED INSIDE THE FIRE STATION: A WALL CUBE POWER SUPPLY, YAGI ANTENNA, 8.5DB, 900MHZ, LMR400 COAXIAL CABLE, CB-1055, LIGHTING PROTECTION, 1.8M RF JUMPER CABLE, AND A TRANSRECEIVER, MASTER ACTIVATION UNIT I SINGLE PUSH BUTTON.
3. THE FIRE PREEMPTION EQUIPMENT SHALL BE PAID FOR UNDER ITEM 678.15 TRAFFIC CONTROL SIGNAL SYSTEM, INTERSECTION, FOR A LIST OF EQUIPMENT SEE TRAFFIC LAYOUT SHEET.
4. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

G. MAST ARM FOUNDATIONS

1. FOUNDATIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE MREI 10-01 GUIDELINES. THE CONTRACTOR WILL BE RESPONSIBLE FOR SOIL BORINGS AND FOUNDATION DESIGN. IN ADDITION TO FABRICATION DRAWINGS, THE BORING LOGS, DESIGN CRITERIA,AND DESIGN CALCULATIONS SHALL BE SUBMITTED AS WORKING DRAWINGS IN ACCORDANCE WITH SUBSECTION 105.03.

H. GENERAL

1. A UNIFORMED TRAFFIC OFFICER SHALL DIRECT TRAFFIC WHEN ONE-WAY TRAFFIC EXISTS ON ANY APPROACH.
2. THE CONTRACTOR SHALL ACQUIRE ALL THE NECESSARY PERMITS AND MAKE ALL NECESSARY ARRANGEMENTS WITH THE UTILITY COMPANY TO PROVIDE A PERMANENT POWER SUPPLY TO THE TRAFFIC SIGNAL EQUIPMENT. THE ROUTING OF POWER TO THE INTERSECTION SHALL BE SUCH THAT THE STATE HAS FULL RESPONSIBILITY FROM THE TRANSFORMER THROUGH THE SIGNAL. NO INTERVENING OWNERSHIP/RESPONSIBILITY SHALL BE ALLOWED.
3. SEE THE PROJECT SPECIAL PROVISIONS FOR INFORMATION AND REQUIREMENTS FOR SALVAGED MATERIALS
4. ALL SIGNAL POLES, PEDESTRIAN POLES, AND CONTROLLER CABINET SHALL BE BLACK FINISH.

CONTROLLER IDENTIFICATION PLAQUE

LEGEND: - BLACK (NON-REFL.) - STAMPED PRIOR TO PAINTING
BACKGROUND: NATURAL ALUMINUM OR BRASS SURFACE

NOTES:

1.) THE PLAQUE SHALL BE MOUNTED ON ALL TRAFFIC SIGNAL CONTROLLER CABINETS. IT SHALL BE FASTENED TO THE CONTROLLER CABINET IN SUCH A MANNER AS TO BE NOT EASILY REMOVED, SUCH AS WELDED, RIVETED OR BOLTED WITH VANDAL PROOF BOLTS.

2.) THE LETTERS SHALL BE PUNCHED OR STAMPED, SUCH STAMPING SHALL PENETRATE AT LEAST 1#2 THE BASE MATERIAL THICKNESS.

3.) THE BASE MATERIAL FOR THE PLAQUE SHALL BE BRASS OR ALUMINUM WITH A MINIMUM THICKNESS OF 2.54MM.

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028traf.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
TRAFFIC SIGNAL NOTES	SHEET 71 OF 142

TRAFFIC SIGNAL GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT, AGENCY OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2006, WITH CURRENT MODIFICATIONS

2. OVERHEAD SIGN/SIGNAL SUPPORTS SHALL CONFORM TO AASHTO'S PUBLICATION ENTITLED ''STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS'', DATED 2009 OR ITS LATEST REVISION.

3. THE DESIGN CALCULATIONS SHALL TAKE INTO ACCOUNT THE FOLLOWING CRITERIA:

   STRUCTURE CRITERIA
   DESIGN LIFE: 50 YEARS
   WIND LOAD - 90 MPH, UNLESS SPECIAL SITE CONDITIONS DICTATE
   ICE LOAD PER AASHTO'S PUBLICATION ENTITLED "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARES, AND TRAFFIC SIGNALS", DATED 2009

   FATIGUE CRITERIA
   FATIGUE CATEGORY:
   I FOR MAST ARM SIGN STRUCTURES, 2 FOR SIGNAL MAST ARMS
   VORTEX SHEDDING: INCLUDE
   NATURAL WIND GUSTS: INCLUDE
   TRUCK INDUCED WIND GUSTS: INCLUDE FOR ROADWAYS WHERE SPEED LIMIT IS 40 MPH OR GREATER.
   GALLOPING: DO NOT INCLUDE IN DESIGN CALCULATIONS

   FOUNDATION CRITERIA
   CONCRETE: CONCRETE, HIGH PERFORMANCE CLASS B, STATE OF VERMONT, AGENCY OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION", DATED 2006, SECTION 501.
   REINFORCING STEEL: STATE OF VERMONT, AGENCY OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION", DATED 2006, SECTION 713.01.
   ALLOWABLE BEARING CAPACITY: TO BE DETERMINED
   INTERNAL SOIL FRICTION ANGLE, Φ :TO BE DETERMINED

4. ANCHOR BOLTS

   FOUR STAINLESS STEEL ANCHOR BOLTS WITH TWO HEXAGON NUTS, ONE WASHER AND ONE LOCK WASHER PER BOLT SHALL BE FURNISHED WITH EACH POLE. ANCHOR BOLT PLATES, WHEN USED, SHALL ALSO BE STAINLESS STEEL. STATE OF VERMONT, AGENCY OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION", DATED 2006, SECTION 714.09.

5. FLANGE BOLTS

   ALL FLANGE BOLTS AND HEX NUTS SHALL BE HIGH STRENGTH STEEL AND SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION", DATED 2006, SECTION 714.05.

6. HORIZONTAL AND VERTICAL MEMBERS

   STEEL TUBES SHALL BE FORMED AND WELDED WITH ONE CONTINUOUS LONGITUDINAL WELD ONLY. AFTER FORMING AND WELDING THEY SHALL BE COLD ROLLED TO ENSURE UNIFORMITY OF SIZE AND SMOOTHNESS OF WELD.THERE SHALL BE NO TRANSVERSE WELDING EXCEPT AT THE FLANGE CONNECTIONS AND POLE BASE PLATES, WHERE THE TUBES SHALL TELESCOPE THE FLANGES AND PLATES AND BE CONTINUOUSLY WELDED BOTH SIDES, INSIDE AND OUT TO WITHSTAND THE FULL TRANSFER OF THE BENDING STRENGTH TO THE BOLTS. OPTIONALLY, THE MEMBERS MAY BE A SERIES OF TWO OR THREE DIFFERENT DIAMETER PIPES WELDED TOGETHER. STEEL TUBES SHALL BE CONSTRUCTED FROM MATERIALS CONFORMING TO STATE OF VERMONT, AGENCY OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION", DATED 2006, SECTION 752.02.

7. GALVANIZING

   ALL STEEL COMPONENTS, EXCEPT CONCRETE REINFORCING AND STAINLESS STEEL HARDWARE, ARE TO BE HOT DIPPED GALVANIZED AFTER FABRICATION. THE ASSEMBLIES SHALL BE DESIGNED AND FABRICATED TO PERMIT GALVANIZING ON ALL INTERIOR AND EXTERIOR SURFACES AND SHALL BE FREE OF POCKETS AND OTHER STRUCTURAL OBSTRUCTIONS THAT WILL NOT PERMIT PROPER DEPOSITION OF ZINC COATING. GALVANIZING SHALL BE IN ACCORDANCE WITH STATE OF VERMONT, AGENCY OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION", DATED 2006, SECTION 752.02.

8. WELDING

   ALL DESIGN DETAILS, WORKMANSHIP, PROCEDURES AND INSPECTION SHALL CONFORM TO VTRANS SPECIFICATIONS SECTION 506.10.

9. FOUNDATIONS

   A. FOUNDATIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE MREI 10-01 GUIDELINES ISSUED BY THE AGENCY.

   B. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING NOTES:

      1. A MINIMUM EMBEDMENT DEPTH OF 5 FEET SHALL BE USED FOR ALL SPREAD FOOTING FOUNDATIONS; MEASURED FROM THE GROUND SURFACE ELEVATION TO THE BOTTOM OF THE FOOTING ELEVATION.

      2. EXCEPT FOR THE UPPERMOST 2 FT OF SOIL, DRILLED SHAFT FOUNDATIONS SHALL BE POURED AGAINST UNDISTURBED MATERIAL; THE TOP 2 FT OF SOIL SHALL BE NEGLECTED FOR DESIGN PURPOSES. A DISPOSABLE CIRCULAR CONCRETE FORM, IF USED, SHALL NOT BE PLACED DEEPER THAN 2FT, IN ORDER NOT TO REDUCE THE FRICTION BETWEEN THE SOIL AND THE CONCRETE.

      3. AS AN ALTERNATIVE TO THE DRILLED HOLES, FOUNDATIONS MAY BE POURED IN EXCAVATED HOLES USING THE PROPER FORMS, WHICH MUST BE REMOVED. THE EXCAVATED HOLES SHALL BE AT LEAST 2 FT CLEAR OF THE FOUNDATION SIDES AND 1 FT DEEPER THAN THE FOUNDATION. CARE SHALL BE TAKEN TO AVOID EXCAVATING AROUND THE TOP OF THE FOUNDATION. DESIGN LIMITS AS FOR AN AUGURED FOUNDATION APPLY.

      4. BACKFILL MATERIAL PLACED ADJACENT TO THE FOUNDATION SHALL MEET THE REQUIREMENTS FOR GRANULAR BACKFILL FOR STRUCTURES, VTRANS SPECIFICATION SECTION 704.08. BACKFILL MATERIAL SHALL BE COMPACTED AS DESCRIBED IN VTRANS' CONSTRUCTION SPECIFICATIONS SECTION 204.08.

      5. CONCRETE FOR THE FOUNDATION SHALL CONFORM TO THE REQUIREMENTS OF SECTION 501, HPC STRUCTURAL CONCRETE. IF DRILLED SHAFT FOUNDATIONS ARE REQUIRED, THE CONCRETE SPECIFICATIONS MAY NEED TO BE ADJUSTED FOR CONSTRUCTABILITY ISSUES. HOWEVER, IF REQUIRED, THE CONTRACTOR SHALL SUBMIT ANY CHANGES TO THE CONCRETE SPECIFICATION FOR REVIEW BY THE VTRANS PROJECT MANAGER.

      6. STEEL PILES SHALL MEET THE REQUIREMENTS OF SECTION 505.

      7. WHEN THE DESIGN DEPTH OF A FOUNDATION CANNOT BE OBTAINED DUE TO UNFORESEEN FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR THE MANUFACTURER TO OBTAIN A REVISED FOUNDATION DESIGN. SUCH A REVISION SHALL BE SUBMITTED TO THE VERMONT, AGENCY OF TRANSPORTATION, PROJECT MANAGER AND MAY REQUIRE UP TO A 4 WEEK REVIEW PERIOD BY VTRANS.

   C. SIGNALS/SIGNS SHALL BE INSTALLED AND LEVELED AND POLES SHALL BE PLUMB PRIOR TO PLACING GROUT UNDER POLE BASE. GROUT MATERIAL SHALL BE NON-SHRINKING MORTAR CONFORMING TO SUB-SECTION 707.03 (MORTAR TYPE IV).

10. EACH OVERHEAD TRAFFIC SIGNAL/SIGN SUPPORT SHALL BE GROUNDED. THE GROUND SHALL CONSIST OF:

   A. AN INTERNAL GROUND LUG OPPOSITE THE HAND HOLE.

   B. A #6 AWG (MIN.) SOFT DRAWN COPPER GROUNDING ELECTRODE CONDUCTOR.

   C. A 5/8 IN. X 8 FT (MIN) COPPER CLAD GROUNDING ELECTRODE. THE RESISTANCE TO GROUND SHALL BE 25 OHMS OR LESS. ADDITIONAL GROUNDING ELECTRODES MAY BE REQUIRED (MINIMUM SPACING SHALL BE 6 FT). WHEN A POWER SERVICE, METER AND DISCONNECT ARE ATTACHED TO A POLE, THERE SHALL BE A CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE METER AND DISCONNECT WHICH MAY RUN INTERNAL TO THE UPRIGHT, THROUGH THE 1/2 IN. FLEXIBLE TUBING IN THE CONCRETE BASE TO THE REQUIRED GROUNDING ELECTRODE(S). THE GROUNDING ELECTRODE CONDUCTOR FROM THE POLE GROUNDING LUG, CONTROLLER CABINET AND/OR LUMINAIRE MAY ATTACH TO THIS CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE SERVICE METER AND DISCONNECT. THE CONTRACTOR SHALL PERFORM A RESISTANCE TO GROUND TEST ON THE CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE SERVICE METER AND DISCONNECT AND PROVIDE A WRITTEN STATEMENT TO THE AREA ELECTRICAL INSPECTOR THAT THE GROUNDING ELECTRODE CONDUCTOR IS CONTINUOUS FROM THE SERVICE METER AND DISCONNECT AND THE RESISTANCE TO GROUND IS 25 OHMS OR LESS.

11. HORIZONTAL MEMBERS SHALL BE CAMBERED AND THE VERTICAL POLES BACK RAKED (WHERE APPLICABLE) TO THE ANTICIPATED DEAD LOAD DEFLECTION PLUS THE CAMBER, IF ANY, SPECIFIED ON THE PLANS.

12. AN EQUIVALENT ALTERNATE DESIGN MAY BE SUBSTITUTED FOR THE DETAILS AND MATERIALS SHOWN.

13. THE DETAILS OF DESIGN FOR THE STRUCTURE AND FOUNDATION ARE TO BE SUPPLIED BY THE CONTRACTOR AND/OR BY THE MANUFACTURER, THE STRUCTURE SHALL BE DESIGNED TO RESIST THE MAXIMUM LOADING AS OUTLINED IN THE AASHTO STANDARD SPECIFICATIONS (SEE NOTE 2). ALL DESIGN CALCULATIONS FOR THE STRUCTURE AND THE FOUNDATION SHALL BE CHECKED AND STAMPED BY AN ENGINEER REGISTERED IN THE STATE OF VERMONT PRIOR TO SUBMITTAL OF THE FABRICATION DRAWINGS TO THE VERMONT AGENCY OF TRANSPORTATION.

14. THE CONTRACTOR SHALL SUBMIT THREE(3) COPIES OF THE DESIGN CALCULATIONS TO THE VERMONT AGENCY OF TRANSPORTATION, PROJECT MANAGER, SHOWING THE FOLLOWING INFORMATION FOR EACH OF THE VERTICAL AND HORIZONTAL COMPONENTS OF THE STRUCTURE AND FOUNDATION:

   A. THE DESIGN AXIAL AND SHEAR FORCES AND BENDING AND TORSIONAL MOMENTS ACTING AT THE TOP OF THE FOUNDATION.

   B. THE DESIGN AXIAL, BENDING AND SHEAR STRESSES AND THE COMBINED STRESS RATIO.

   C. THE ALLOWABLE AXIAL, BENDING, AND SHEAR STRESSES.

   D. ITEMS A, B, D SHALL BE SHOWN FOR EACH OF THE GROUP LOADINGS (I, II, III) AND FOR THE BASIC WIND LOAD APPLIED TO THE TWO CASES OUTLINED IN THE AASHTO STANDARD SPECIFICATIONS (SEE NOTE 2) SECTION 1.2.5(D)(4).

   E. FAILURE TO SUPPLY THE PROPER DESIGN INFORMATION SHALL BE CAUSE FOR REJECTION OF THE STRUCTURE.

   F. A MINIMUM OF FOUR (4) WEEKS SHALL BE REQUIRED FOR REVIEW BY THE VERMONT AGENCY OF TRANSPORTATION.

   G. EVERY MEMBER AND CONNECTION IN AN OVERHEAD TRAFFIC SIGN SUPPORT SHALL HAVE A MAXIMUM DESIGN RATIO OF 85% TO PROVIDE RESIDUAL CAPACITY FOR FUTURE MODIFICATIONS TO SIGN SIZE OR CONFIGURATIONS.

15. FABRICATION DRAWINGS (6 COPIES OF EACH) SHALL BE SUBMITTED TO THE STATE OF VERMONT, AGENCY OF TRANSPORTATION, PROJECT MANAGER FOR APPROVAL PRIOR TO FABRICATION. THE FABRICATION DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION:

   A. DETAILED DRAWING OF EACH COMPONENT OF THE STRUCTURE.

   B. MATERIAL SPECIFICATION FOR EACH COMPONENT OF THE STRUCTURE, EITHER BY COMPLETE SPECIFICATION OR REFERENCE TO APPLICABLE ASTM STANDARDS.

   C. NOTATION OF PROJECT NAME, PROJECT NUMBER, ROUTE NUMBER, AND STRUCTURE STATIONING (TO BE INCLUDED ON EACH SHEET).

   D. DETAILS FOR LOCATION OF SIGNS/SIGNALS AND ATTACHMENT HARDWARE FOR THE SUPPORT STRUCTURE.

   E. ALL ELEVATIONS AND DIMENSIONS NECESSARY TO PROVIDE A COMPLETE SET OF RECORD PLANS.

   F. DEAD LOAD DEFLECTION AND CAMBER INFORMATION.

   G. WELDING DETAILS AND PROCEDURES ARE REQUIRED FOR ALL WELDS. PROCEDURES SHALL BE SUBMITTED FOR APPROVAL WITH REFERENCE TO EACH WELD IDENTIFIED ON THE FABRICATION DRAWINGS. (SEE SUB-SECTION 506.10).

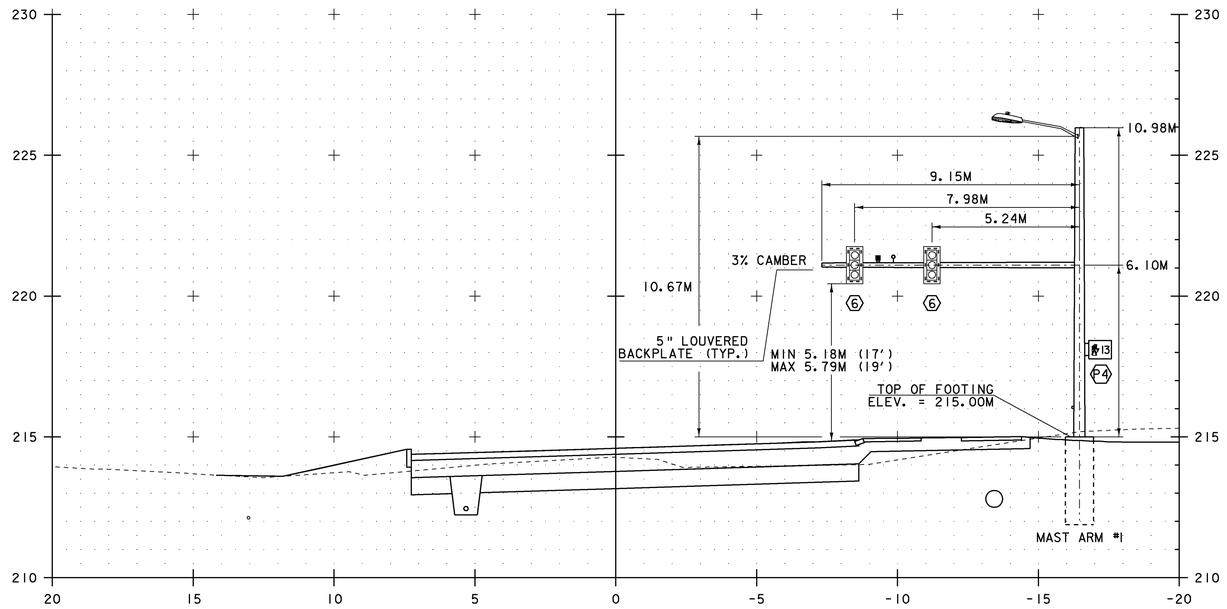
16. THE TRAFFIC SIGNALS SHALL BE MOUNTED TO THE ARM OR POLE USING A FIXED MOUNT SYSTEM, UNLESS OTHERWISE NOTED ON THE CROSS SECTION SHEET. FOR SIGNALS MOUNTED ON A MAST ARM, THE MAST ARM AND MOUNTING POINT SHALL BE IN THE MIDDLE OF THE SIGNAL HEAD.

17. BASE PLATES SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER, HEIGHT, YIELD STRENGTH, GAUGE AND THE HORIZONTAL MEMBER DIAMETER, LENGTH, YIELD STRENGTH, GAUGE, ALTERNATELY. THE INFORMATION MAY BE STAMPED ON A METAL TAG RIVETED TO THE POLE NEAR THE HAND HOLE.

18. SEE STANDARD E-171A FOR ADDITIONAL NOTES.

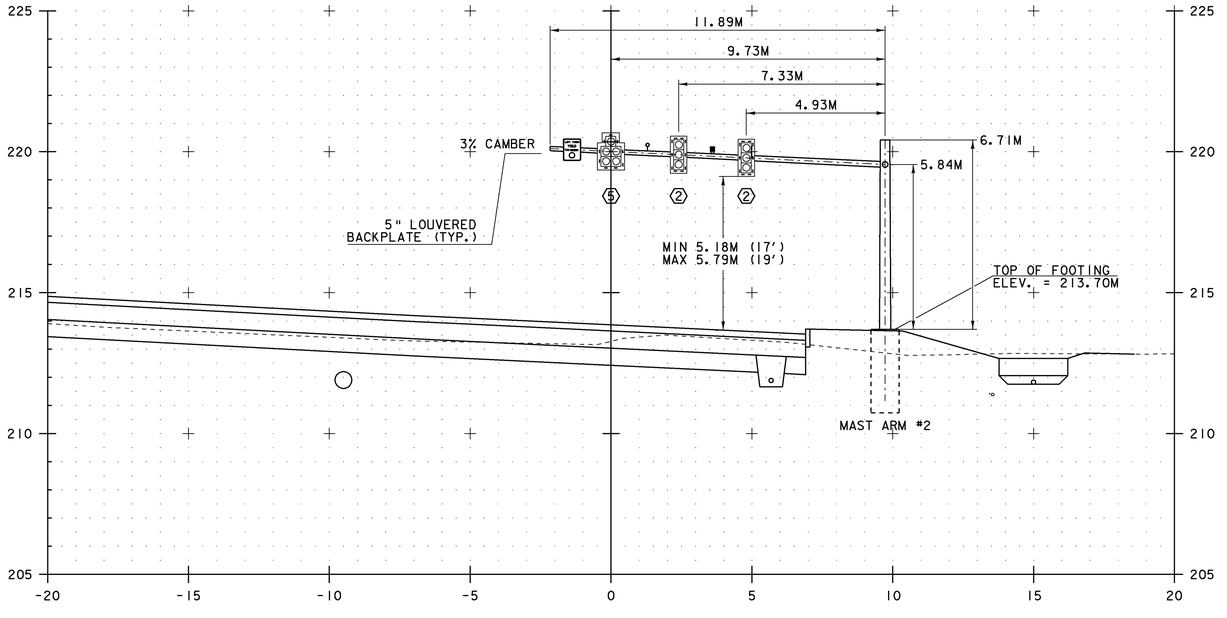
PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98028traf.dgn	PLOT DATE: 29-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
TRAFFIC GENERAL NOTES	SHEET 72 OF 142

MAST ARM #1
LOOKING WEST ON
US ROUTE 2



4+785.99

MAST ARM #2
LOOKING EAST ON
US ROUTE 2

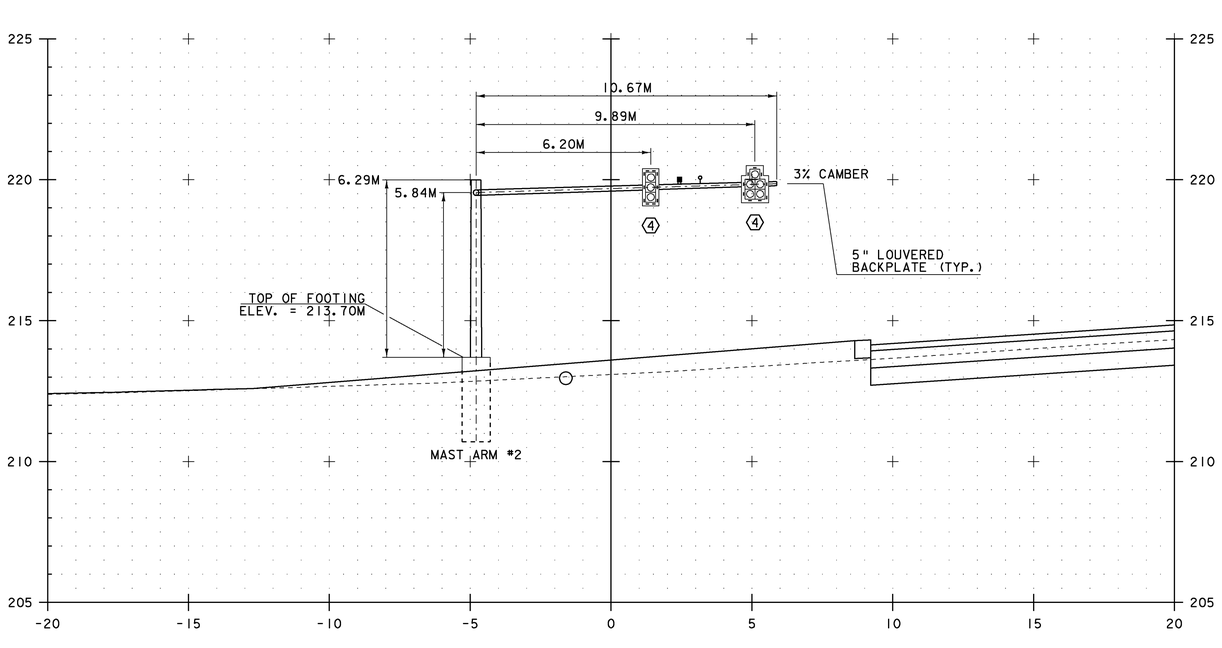


4+803.59

NOTE: FOUNDATION DEPTHS ARE
NOT TO SCALE (TYP).

0 2 4 6 8 10
SCALE 1:100

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028traf.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
MAST ARM CROSS SECTION SHEET 1	SHEET 73 OF 142



MAST ARM #3
LOOKING SOUTH ON
VT ROUTE 14

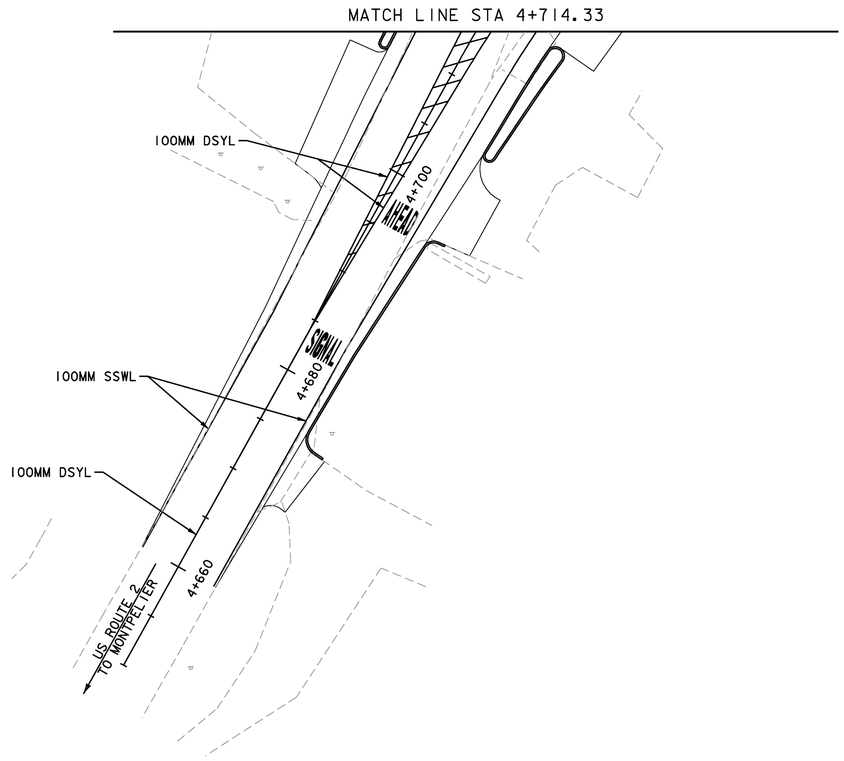
NOTE: FOUNDATION DEPTHS ARE
NOT TO SCALE (TYP).

0 2 4 6 8 10
SCALE 1:100

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028traf.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
MAST ARM CROSS SECTION SHEET 2	SHEET 74 OF 142

N

VT STATE PLANE GRID



646.406 - DURABLE 100MM WHITE LINE, RECESSED POLYUREA
STA 4+660.00 LT - 4+711.73 LT (SOLID)
STA 4+660.00 RT - 4+717.20 RT (SOLID)

646.416 - DURABLE 100MM YELLOW LINE, RECESSED POLYUREA
STA 4+660.00 CL - 4+684.00 CL (SOLID-DOUBLE)
STA 4+684.00 LT - 4+713.69 LT (SOLID-DOUBLE)
STA 4+684.00 RT - 4+715.03 RT (SOLID-DOUBLE)

646.456 - DURABLE 200MM YELLOW LINE, RECESSED POLYUREA
STA 4+691.50 LT - 4+692.08 RT (SOLID, DIAG.)
STA 4+694.41 LT - 4+695.21 RT (SOLID, DIAG.)
STA 4+697.32 LT - 4+698.35 RT (SOLID, DIAG.)
STA 4+700.23 LT - 4+701.49 RT (SOLID, DIAG.)
STA 4+703.14 LT - 4+704.62 RT (SOLID, DIAG.)
STA 4+706.05 LT - 4+707.76 RT (SOLID, DIAG.)
STA 4+708.10 LT - 4+709.97 RT (SOLID, DIAG.)
STA 4+710.16 LT - 4+712.20 RT (SOLID, DIAG.)
STA 4+712.23 LT - 4+714.43 RT (SOLID, DIAG.)

646.491 - DURABLE LETTER OR SYMBOL, TYPE I TAPE △
STA 4+683.33 RT (LETTERS - SIGNAL)
STA 4+696.67 RT (LETTERS - AHEAD)

646.600 - TEMPORARY 100MM WHITE LINE
STA 4+660.00 LT - 4+711.73 LT (SOLID)
STA 4+660.00 RT - 4+717.20 RT (SOLID)

646.610 - TEMPORARY 100MM YELLOW LINE
STA 4+660.00 CL - 4+684.00 CL (SOLID-DOUBLE)
STA 4+684.00 LT - 4+713.69 LT (SOLID-DOUBLE)
STA 4+684.00 RT - 4+715.03 RT (SOLID-DOUBLE)

646.690 - TEMPORARY LETTER OR SYMBOL
STA 4+683.33 RT (LETTERS - SIGNAL)
STA 4+696.67 RT (LETTERS - AHEAD)

△ TYPE I TAPE SHALL BE ATM 400 EXTENDED GRADE TAPE OR DIRECTOR 60-HP OR STAMARK HIGH PERFORMANCE TAPE SERIES 3801

△ REVISED ITEM

SSWL = SINGLE SOLID WHITE LINE

DSYL = DOUBLE SOLID YELLOW LINE

0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028tspmbdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
PAVEMENT MARKING LAYOUT SHEET 1

PLOT DATE: 11-MAY-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 75 OF 142

Metric

MATCH LINE STA 100+67.63

MATCH LINE STA 14+093.85

N

VT STATE PLANE GRID

MATCH LINE STA 4+872.87

MATCH LINE STA 4+714.33

QUAKER HILL ROAD

100MM DSYL

100MM SSWL

2.75M TYP.

5.65M TYP.

ONLY

646.404 - DURABLE 100MM WHITE LINE, POLYUREA △
STA 100+066.00 LT - 100+066.00 LT (SOLID)
STA 100+068.75 LT - 100+068.75 LT (SOLID)
STA 100+071.50 LT - 100+071.50 LT (SOLID)
STA 100+074.25 LT - 100+074.25 LT (SOLID)
STA 100+090.07 LT - 100+090.07 LT (SOLID)
STA 100+090.07 LT - 100+090.07 RT (SOLID)
STA 100+092.82 LT - 100+092.82 LT (SOLID)
STA 100+092.82 LT - 100+092.82 RT (SOLID)
STA 100+095.57 LT - 100+095.57 LT (SOLID)
STA 100+095.57 LT - 100+095.57 RT (SOLID)
STA 100+098.32 LT - 100+098.32 LT (SOLID)
STA 100+098.32 LT - 100+098.32 RT (SOLID)
STA 100+098.32 RT - 100+099.37 RT (SOLID, DIAG.)
STA 100+098.32 LT - 100+100.22 RT (SOLID, DIAG.)
STA 100+098.32 LT - 100+101.07 RT (SOLID, DIAG., 2)
STA 100+098.32 LT - 100+101.07 LT (SOLID, DIAG., 2)
STA 100+098.82 LT - 100+101.07 LT (SOLID, DIAG.)
STA 100+099.67 LT - 100+101.07 LT (SOLID, DIAG.)
STA 100+100.52 LT - 100+101.07 LT (SOLID, DIAG.)
STA 100+101.07 LT - 100+101.07 LT (SOLID)
STA 100+101.07 LT - 100+101.07 RT (SOLID)

646.406 - DURABLE 100MM WHITE LINE, RECESSED POLYUREA
STA 4+711.73 LT - 14+060.00 LT (SOLID)
STA 4+717.18 RT - 4+810.52 RT (SOLID)
STA 4+813.11 RT - 4+873.59 RT (SOLID)
STA 4+745.00 RT - 4+755.00 RT (DOTTED)
STA 4+755.00 RT - 4+790.00 RT (SOLID)
STA 40+060.00 RT - 14+037.03 LT (SOLID)
STA 14+039.47 LT - 14+091.73 LT (SOLID)
STA 14+042.00 LT - 14+072.00 LT (SOLID)
STA 14+072.00 LT - 14+092.75 LT (DOTTED)
STA 14+095.00 RT - 14+039.47 RT (SOLID)
STA 14+037.03 RT - 4+811.80 LT (SOLID)
STA 4+814.05 LT - 4+872.34 LT (SOLID)
STA 14+072.00 CL - 14+093.85 CL (DOTTED)

646.416 - DURABLE 100MM YELLOW LINE, RECESSED POLYUREA
STA 4+713.67 LT - 4+734.00 CL (SOLID-DOUBLE)
STA 4+715.02 RT - 4+734.00 CL (SOLID-DOUBLE)
STA 4+745.00 LT - 4+790.00 LT (SOLID-DOUBLE)
STA 4+814.20 CL - 4+872.87 CL (SOLID-DOUBLE)
STA 4+814.20 CL - 4+873.10 RT (SOLID-DOUBLE)
STA 40+007.00 LT - 40+060.00 LT (SOLID-DOUBLE)
STA 14+042.00 LT - 14+093.23 LT (SOLID-DOUBLE)
5

646.456 - DURABLE 200MM YELLOW LINE, RECESSED POLYUREA
STA 4+714.29 LT - 4+716.65 RT (SOLID, DIAG.)
STA 4+716.35 LT - 4+718.87 RT (SOLID, DIAG.)
STA 4+718.41 LT - 4+721.09 RT (SOLID, DIAG.)
STA 4+720.47 LT - 4+723.31 RT (SOLID, DIAG.)
STA 4+722.53 LT - 4+725.53 RT (SOLID, DIAG.)
STA 4+724.59 LT - 4+727.75 RT (SOLID, DIAG.)
STA 4+726.65 LT - 4+729.97 RT (SOLID, DIAG.)
STA 4+728.71 LT - 4+732.19 RT (SOLID, DIAG.)
STA 4+816.00 LT - 4+819.74 RT (SOLID, DIAG.)
STA 4+818.27 LT - 4+821.80 RT (SOLID, DIAG.)
STA 4+820.48 LT - 4+823.94 RT (SOLID, DIAG.)
STA 4+822.48 LT - 4+826.32 RT (SOLID, DIAG.)
STA 4+824.89 LT - 4+828.20 RT (SOLID, DIAG.)
STA 4+827.10 LT - 4+830.34 RT (SOLID, DIAG.)
STA 4+829.31 LT - 4+832.47 RT (SOLID, DIAG.)
STA 4+831.52 LT - 4+834.56 RT (SOLID, DIAG.)
STA 4+833.70 LT - 4+836.69 RT (SOLID, DIAG.)
STA 4+835.91 LT - 4+838.82 RT (SOLID, DIAG.)
STA 4+838.12 LT - 4+840.96 RT (SOLID, DIAG.)
STA 4+840.33 LT - 4+843.09 RT (SOLID, DIAG.)
STA 4+842.55 LT - 4+845.23 RT (SOLID, DIAG.)
STA 4+844.76 LT - 4+847.36 RT (SOLID, DIAG.)
STA 4+846.97 LT - 4+849.50 RT (SOLID, DIAG.)
STA 4+849.18 LT - 4+851.63 RT (SOLID, DIAG.)
STA 4+851.39 LT - 4+853.76 RT (SOLID, DIAG.)
STA 4+853.60 LT - 4+855.90 RT (SOLID, DIAG.)
STA 4+855.81 LT - 4+858.03 RT (SOLID, DIAG.)
STA 4+858.02 LT - 4+860.17 RT (SOLID, DIAG.)
STA 4+860.23 LT - 4+862.30 RT (SOLID, DIAG.)
STA 4+862.44 LT - 4+864.43 RT (SOLID, DIAG.)
STA 4+864.65 LT - 4+866.57 RT (SOLID, DIAG.)
STA 4+866.86 LT - 4+868.68 RT (SOLID, DIAG.)
STA 4+869.04 LT - 4+870.74 RT (SOLID, DIAG.)
STA 4+871.17 LT - 4+872.80 RT (SOLID, DIAG.)

646.690 - TEMPORARY LETTER OR SYMBOL
STA 4+763.16 CL (SYMBOL - LEFT ARROW)
STA 4+775.36 CL (LETTERS - ONLY)
STA 4+787.52 CL (SYMBOL - LEFT ARROW)
STA 40+011.44 LT (LETTERS - STOP)
STA 14+044.45 LT (SYMBOL - LEFT, RIGHT ARROWS)
STA 14+056.64 LT (LETTERS - ONLY, ONLY)
STA 14+068.83 LT (SYMBOL - LEFT, RIGHT ARROWS)
STA 100+097.03 LT (SYMBOL - HANDICAPPED)
STA 100+102.53 LT (SYMBOL - HANDICAPPED)

646.481 - DURABLE 600MM STOP BAR, TYPE I TAPE △
STA 4+790.00 LT - 4+790.00 RT
STA 4+816.00 LT - 4+816.00 LT
STA 40+009.00 LT - 40+009.00 LT
STA 14+042.00 LT - 14+042.00 LT
5 5

646.491 - DURABLE LETTER OR SYMBOL, TYPE I TAPE △
STA 4+763.16 CL (SYMBOL - LEFT ARROW)
STA 4+775.36 CL (LETTERS - ONLY)
STA 4+787.52 CL (SYMBOL - LEFT ARROW)
STA 40+011.44 LT (LETTERS - STOP)
STA 14+044.45 LT (SYMBOL - LEFT, RIGHT ARROWS)
STA 14+056.64 LT (LETTERS - ONLY, ONLY)
STA 14+068.83 LT (SYMBOL - LEFT, RIGHT ARROWS)
STA 100+097.03 LT (SYMBOL - HANDICAPPED)
STA 100+102.53 LT (SYMBOL - HANDICAPPED)

646.501 DURABLE CROSSWALK MARKING, TYPE I TAPE △
STA 14+038.25 LT - 14+038.25 RT
STA 4+813.05 LT - 4+811.65 RT

646.600 - TEMPORARY 100MM WHITE LINE
STA 4+711.73 LT - 14+060.00 LT (SOLID)
STA 4+717.18 RT - 4+810.52 RT (SOLID)
STA 4+813.11 RT - 4+873.59 RT (SOLID)
STA 4+745.00 RT - 4+755.00 RT (DOTTED)
STA 4+755.00 RT - 4+790.00 RT (SOLID)
STA 40+060.00 RT - 14+037.03 LT (SOLID)
STA 14+039.47 LT - 14+091.73 LT (SOLID)
STA 14+042.00 LT - 14+072.00 LT (SOLID)
STA 14+072.00 LT - 14+092.75 LT (DOTTED)
STA 14+095.00 RT - 14+039.47 RT (SOLID)
STA 14+037.03 RT - 4+811.80 LT (SOLID)
STA 4+814.05 LT - 4+872.34 LT (SOLID)
STA 14+072.00 CL - 14+093.85 CL (DOTTED)

646.610 - TEMPORARY 100MM YELLOW LINE
STA 4+713.67 LT - 4+734.00 CL (SOLID-DOUBLE)
STA 4+715.02 RT - 4+734.00 CL (SOLID-DOUBLE)
STA 4+745.00 LT - 4+790.00 LT (SOLID-DOUBLE)
STA 4+814.20 CL - 4+872.87 CL (SOLID-DOUBLE)
STA 4+814.20 CL - 4+873.10 RT (SOLID-DOUBLE)
STA 40+007.00 LT - 40+060.00 LT (SOLID-DOUBLE)
STA 14+042.00 LT - 14+093.23 LT (SOLID-DOUBLE)

646.680 - TEMPORARY 600MM STOP BAR
STA 4+790.00 LT - 4+790.00 RT
STA 4+816.00 LT - 4+816.00 LT
STA 40+009.00 LT - 40+009.00 LT
STA 14+042.00 LT - 14+042.00 LT

△ TYPE I TAPE SHALL BE ATM 400 EXTENDED GRADE TAPE OR DIRECTOR 60-HP OR STAMARK HIGH PERFORMANCE TAPE SERIES 3801

△ REVISED ITEM

SSWL = SINGLE SOLID WHITE LINE

DSYL = DOUBLE SOLID YELLOW LINE

0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028-3(35)S

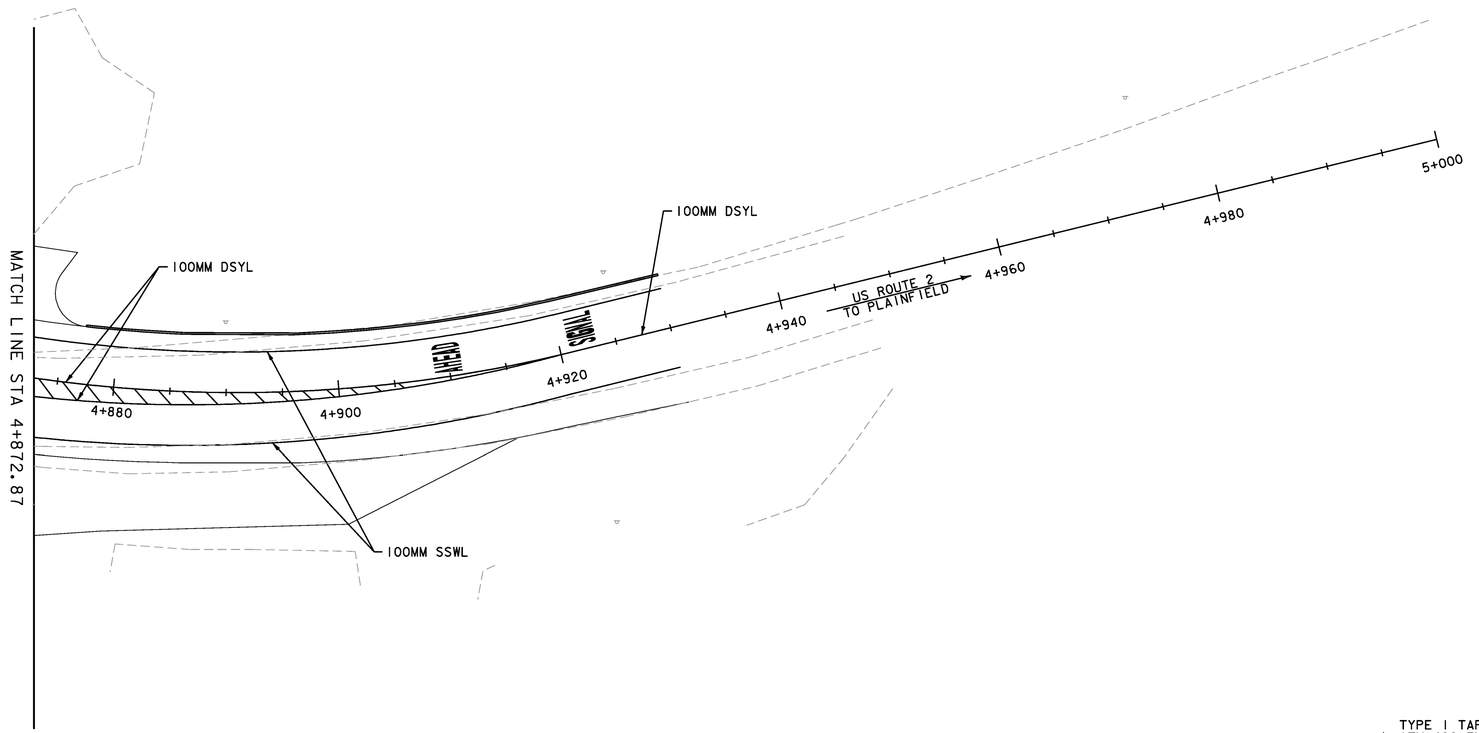
FILE NAME: t98b028tspmbdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
PAVEMENT MARKING LAYOUT SHEET 2

PLOT DATE: 11-MAY-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 76 OF 142

VTrans Metric

N

VT STATE PLANE GRID



646.406 - DURABLE 100MM WHITE LINE, RECESSED POLYUREA
STA 4+872.33 LT - 4+930.00 LT
STA 4+873.59 RT - 4+930.00 RT

646.416 - DURABLE 100MM YELLOW LINE, RECESSED POLYUREA
STA 4+872.87 CL - 4+920.00 CL (SOLID-DOUBLE)
STA 4+873.59 RT - 4+920.00 CL (SOLID-DOUBLE)
STA 4+920.00 CL - 4+930.00 CL (SOLID-DOUBLE)

646.456 - DURABLE 200MM YELLOW LINE, RECESSED POLYUREA
STA 4+875.30 CL - 4+874.84 RT (SOLID, DIAG.)
STA 4+875.44 CL - 4+876.91 RT (SOLID, DIAG.)
STA 4+877.57 CL - 4+878.97 RT (SOLID, DIAG.)
STA 4+879.71 CL - 4+881.04 RT (SOLID, DIAG.)
STA 4+881.84 CL - 4+883.10 RT (SOLID, DIAG.)
STA 4+883.98 CL - 4+885.16 RT (SOLID, DIAG.)
STA 4+886.11 CL - 4+887.23 RT (SOLID, DIAG.)
STA 4+888.24 CL - 4+889.29 RT (SOLID, DIAG.)
STA 4+890.38 CL - 4+891.36 RT (SOLID, DIAG.)
STA 4+892.51 CL - 4+893.42 RT (SOLID, DIAG.)
STA 4+894.65 CL - 4+895.49 RT (SOLID, DIAG.)
STA 4+896.78 CL - 4+897.55 RT (SOLID, DIAG.)
STA 4+898.91 CL - 4+899.61 RT (SOLID, DIAG.)
STA 4+901.05 CL - 4+901.68 RT (SOLID, DIAG.)
STA 4+903.18 CL - 4+903.74 RT (SOLID, DIAG.)
STA 4+905.32 CL - 4+905.80 RT (SOLID, DIAG.)

△ 646.491 - DURABLE LETTER OR SYMBOL, TYPE I TAPE
STA 4+909.90 LT (LETTERS - AHEAD)
STA 4+922.10 LT (LETTERS - SIGNAL)

646.600 - TEMPORARY 100MM WHITE LINE
STA 4+872.33 LT - 4+930.00 LT
STA 4+873.59 RT - 4+930.00 RT

646.610 - TEMPORARY 100MM YELLOW LINE
STA 4+872.87 CL - 4+920.00 CL (SOLID-DOUBLE)
STA 4+873.59 RT - 4+920.00 CL (SOLID-DOUBLE)
STA 4+920.00 CL - 4+930.00 CL (SOLID-DOUBLE)

646.690 - TEMPORARY LETTER OR SYMBOL
STA 4+909.90 LT (LETTERS - AHEAD)
STA 4+922.10 LT (LETTERS - SIGNAL)

646.850 - REMOVAL OF EXISTING PAVEMENT MARKINGS
STA 5+093.33 LT APPROX. (LETTERS - AHEAD)
STA 5+106.66 LT APPROX. (LETTERS - STOP)

△ TYPE I TAPE SHALL BE ATM 400 EXTENDED GRADE TAPE OR DIRECTOR 60-HP OR STAMARK HIGH PERFORMANCE TAPE SERIES 3801

△ REVISED ITEM

SSWL = SINGLE SOLID WHITE LINE
DSYL = DOUBLE SOLID YELLOW LINE

0 10 20 30
SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028-3(35)S

FILE NAME: t98b028tspmbdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
PAVEMENT MARKING LAYOUT SHEET 3

PLOT DATE: 11-MAY-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 77 OF 142

N

VT STATE PLANE GRID

646.404 - DURABLE 100MM WHITE LINE, POLYUREA △
STA 100.033.60 LT - 100.033.60 LT (SOLID)
STA 100+036.80 LT - 100+036.53 LT (SOLID)
STA 100+039.95 LT - 100+039.91 LT (SOLID)
STA 100+043.04 LT - 100+043.62 LT (SOLID)
STA 100+046.25 LT - 100+046.56 LT (SOLID)
STA 100+049.45 LT - 100+049.48 LT (SOLID)
STA 100+052.25 LT - 100+052.25 LT (SOLID)
STA 100+057.75 LT - 100+057.75 LT (SOLID)
STA 100+060.50 LT - 100+060.50 LT (SOLID)
STA 100+063.25 LT - 100+063.25 LT (SOLID)
STA 100+066.00 LT - 100+066.00 LT (SOLID)

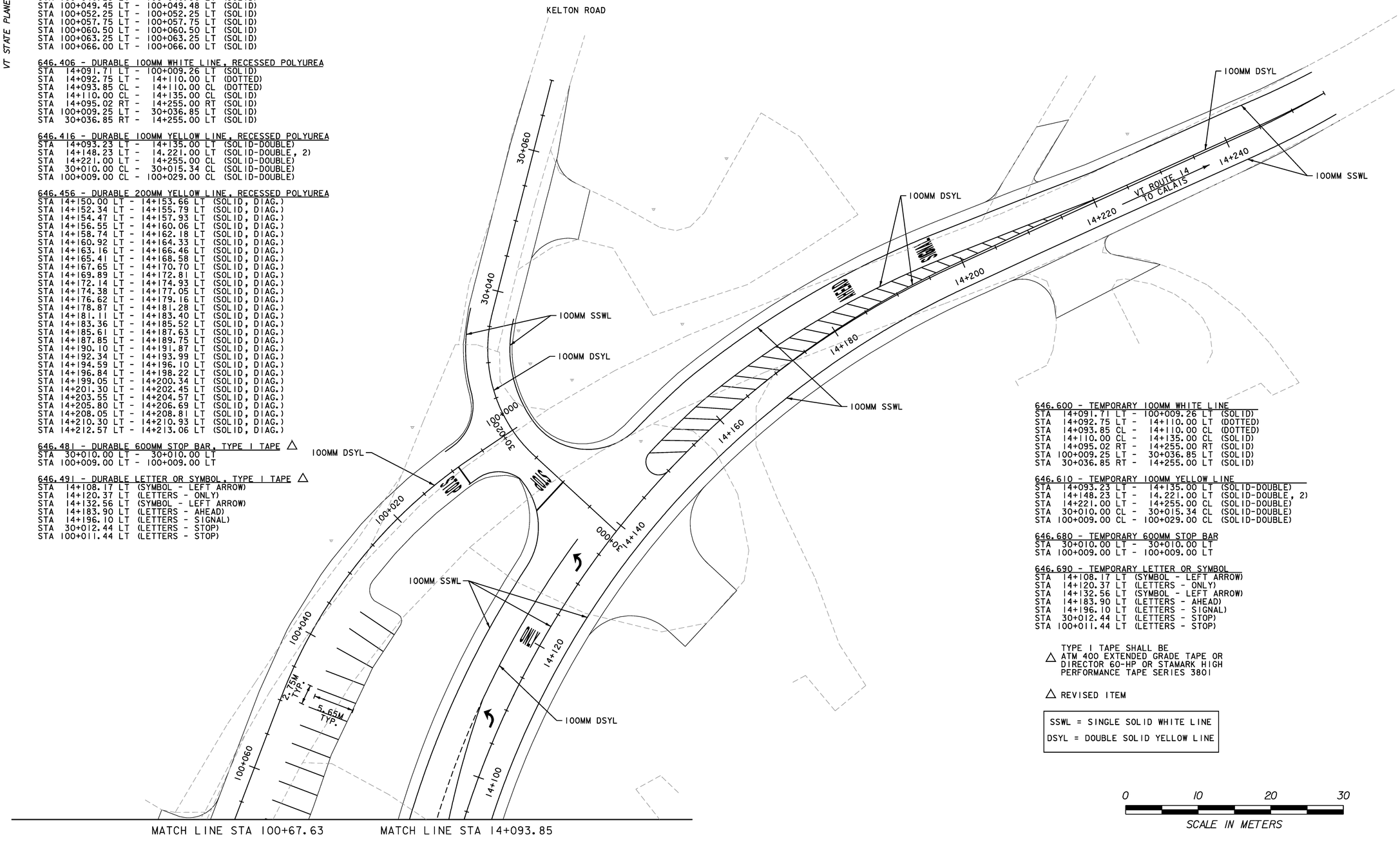
646.406 - DURABLE 100MM WHITE LINE, RECESSED POLYUREA
STA 14+091.71 LT - 100+009.26 LT (SOLID)
STA 14+092.75 LT - 14+110.00 LT (DOTTED)
STA 14+093.85 CL - 14+110.00 CL (DOTTED)
STA 14+110.00 CL - 14+135.00 CL (SOLID)
STA 14+095.02 RT - 14+255.00 RT (SOLID)
STA 100+009.25 LT - 30+036.85 LT (SOLID)
STA 30+036.85 RT - 14+255.00 LT (SOLID)

646.416 - DURABLE 100MM YELLOW LINE, RECESSED POLYUREA
STA 14+093.23 LT - 14+135.00 LT (SOLID-DOUBLE)
STA 14+148.23 LT - 14.221.00 LT (SOLID-DOUBLE, 2)
STA 14+221.00 LT - 14+255.00 CL (SOLID-DOUBLE)
STA 30+010.00 CL - 30+015.34 CL (SOLID-DOUBLE)
STA 100+009.00 CL - 100+029.00 CL (SOLID-DOUBLE)

646.456 - DURABLE 200MM YELLOW LINE, RECESSED POLYUREA
STA 14+150.00 LT - 14+153.66 LT (SOLID, DIAG.)
STA 14+152.34 LT - 14+155.79 LT (SOLID, DIAG.)
STA 14+154.47 LT - 14+157.93 LT (SOLID, DIAG.)
STA 14+156.55 LT - 14+160.06 LT (SOLID, DIAG.)
STA 14+158.74 LT - 14+162.18 LT (SOLID, DIAG.)
STA 14+160.92 LT - 14+164.33 LT (SOLID, DIAG.)
STA 14+163.16 LT - 14+166.46 LT (SOLID, DIAG.)
STA 14+165.41 LT - 14+168.58 LT (SOLID, DIAG.)
STA 14+167.65 LT - 14+170.70 LT (SOLID, DIAG.)
STA 14+169.89 LT - 14+172.81 LT (SOLID, DIAG.)
STA 14+172.14 LT - 14+174.93 LT (SOLID, DIAG.)
STA 14+174.38 LT - 14+177.05 LT (SOLID, DIAG.)
STA 14+176.62 LT - 14+179.16 LT (SOLID, DIAG.)
STA 14+178.87 LT - 14+181.28 LT (SOLID, DIAG.)
STA 14+181.11 LT - 14+183.40 LT (SOLID, DIAG.)
STA 14+183.36 LT - 14+185.52 LT (SOLID, DIAG.)
STA 14+185.61 LT - 14+187.63 LT (SOLID, DIAG.)
STA 14+187.85 LT - 14+189.75 LT (SOLID, DIAG.)
STA 14+190.10 LT - 14+191.87 LT (SOLID, DIAG.)
STA 14+192.34 LT - 14+193.99 LT (SOLID, DIAG.)
STA 14+194.59 LT - 14+196.10 LT (SOLID, DIAG.)
STA 14+196.84 LT - 14+198.22 LT (SOLID, DIAG.)
STA 14+199.05 LT - 14+200.34 LT (SOLID, DIAG.)
STA 14+201.30 LT - 14+202.45 LT (SOLID, DIAG.)
STA 14+203.55 LT - 14+204.57 LT (SOLID, DIAG.)
STA 14+205.80 LT - 14+206.69 LT (SOLID, DIAG.)
STA 14+208.05 LT - 14+208.81 LT (SOLID, DIAG.)
STA 14+210.30 LT - 14+210.93 LT (SOLID, DIAG.)
STA 14+212.57 LT - 14+213.06 LT (SOLID, DIAG.)

646.481 - DURABLE 600MM STOP BAR, TYPE I TAPE △
STA 30+010.00 LT - 30+010.00 LT
STA 100+009.00 LT - 100+009.00 LT

646.491 - DURABLE LETTER OR SYMBOL, TYPE I TAPE △
STA 14+108.17 LT (SYMBOL - LEFT ARROW)
STA 14+120.37 LT (LETTERS - ONLY)
STA 14+132.56 LT (SYMBOL - LEFT ARROW)
STA 14+183.90 LT (LETTERS - AHEAD)
STA 14+196.10 LT (LETTERS - SIGNAL)
STA 30+012.44 LT (LETTERS - STOP)
STA 100+011.44 LT (LETTERS - STOP)



646.600 - TEMPORARY 100MM WHITE LINE
STA 14+091.71 LT - 100+009.26 LT (SOLID)
STA 14+092.75 LT - 14+110.00 LT (DOTTED)
STA 14+093.85 CL - 14+110.00 CL (DOTTED)
STA 14+110.00 CL - 14+135.00 CL (SOLID)
STA 14+095.02 RT - 14+255.00 RT (SOLID)
STA 100+009.25 LT - 30+036.85 LT (SOLID)
STA 30+036.85 RT - 14+255.00 LT (SOLID)

646.610 - TEMPORARY 100MM YELLOW LINE
STA 14+093.23 LT - 14+135.00 LT (SOLID-DOUBLE)
STA 14+148.23 LT - 14.221.00 LT (SOLID-DOUBLE, 2)
STA 14+221.00 LT - 14+255.00 CL (SOLID-DOUBLE)
STA 30+010.00 CL - 30+015.34 CL (SOLID-DOUBLE)
STA 100+009.00 CL - 100+029.00 CL (SOLID-DOUBLE)

646.680 - TEMPORARY 600MM STOP BAR
STA 30+010.00 LT - 30+010.00 LT
STA 100+009.00 LT - 100+009.00 LT

646.690 - TEMPORARY LETTER OR SYMBOL
STA 14+108.17 LT (SYMBOL - LEFT ARROW)
STA 14+120.37 LT (LETTERS - ONLY)
STA 14+132.56 LT (SYMBOL - LEFT ARROW)
STA 14+183.90 LT (LETTERS - AHEAD)
STA 14+196.10 LT (LETTERS - SIGNAL)
STA 30+012.44 LT (LETTERS - STOP)
STA 100+011.44 LT (LETTERS - STOP)

△ TYPE I TAPE SHALL BE ATM 400 EXTENDED GRADE TAPE OR DIRECTOR 60-HP OR STAMARK HIGH PERFORMANCE TAPE SERIES 3801

△ REVISED ITEM

SSWL = SINGLE SOLID WHITE LINE
DSYL = DOUBLE SOLID YELLOW LINE

0 10 20 30
SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028-3(35)S

FILE NAME: t98b028tspmbdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
PAVEMENT MARKING LAYOUT SHEET 4

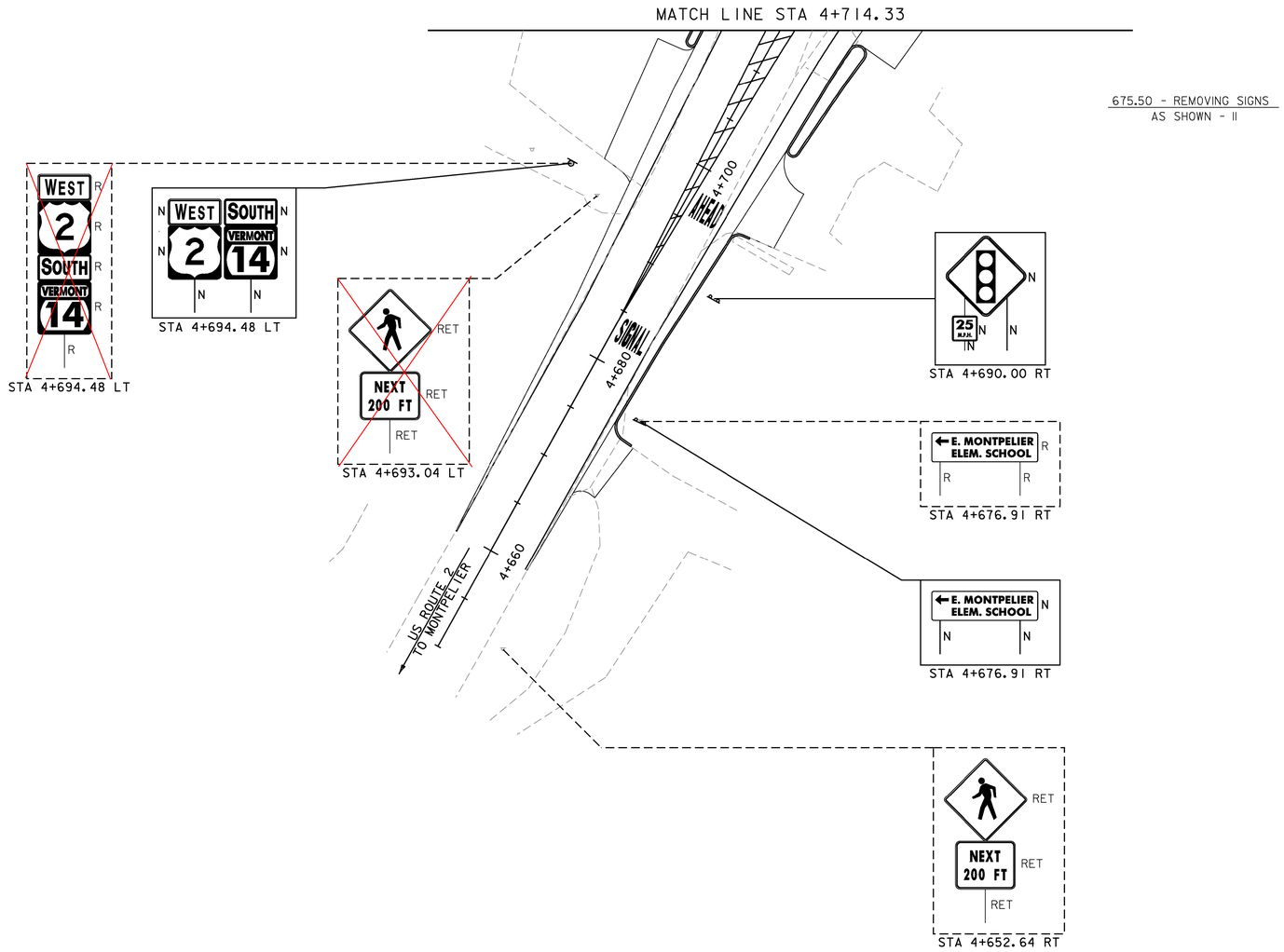
PLOT DATE: 11-MAY-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 78 OF 142

N

VT STATE PLANE GRID

MATCH LINE STA 4+714.33

675.50 - REMOVING SIGNS
AS SHOWN - II



SIGN LEGEND	
R	= REMOVE
S	= SALVAGE
N	= NEW
RET	= RETAIN
B>B	= BACK TO BACK
EXISTING	= – – – – –
NEW	= ———

0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028-3(35)S

FILE NAME: t98b028tspmbdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TRAFFIC SIGNS LAYOUT SHEET 1

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 79 OF 142

VAOT Metric

MATCH LINE STA 100+67.63

MATCH LINE STA 14+093.85

MATCH LINE STA 4+872.87

MATCH LINE STA 4+714.33

N

VT STATE PLANE GRID

675.50 - REMOVING SIGNS
AS SHOWN - 35

675.60 - ERECTING SALVAGED SIGNS
AS SHOWN - 5

675.61 - SETTING SALVAGED POSTS
AS SHOWN - 4

STA 100+081.42 LT.

STA 100+090.23 RT.

STA 100+102.53 RT

STA 100+097.03 RT

STA 14+070.00 LT

STA 14+070.00 RT

NO LONGER A VALID FIRE STATION
(MOVED TO US 2 EAST)

STA 40+043.44 RT

STA 40+045.00 RT

STA 100+148.07 RT

STA 4+811.78 LT

STA 4+830.00 LT

QUAKER HILL ROAD

STA 40+024.41 RT

STA 40+020.00 RT

STA 4+780.00 LT

STA 4+752.50 LT.

STA 40+016.13 LT

(DAMAGED)

STA 40+011.00 LT

STA 4+755.42 LT

MAST ARM #2

STA 4+830.00 RT

STA 4+831.26 RT

STA 4+778 RT

STA 4+755.00 RT

STA 4+751.37 LT

4+830 RT

STA 4+780 RT

SIGN LEGEND

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

0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028-3(35)S

FILE NAME: t98b028tspmbdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TRAFFIC SIGNS LAYOUT SHEET 2

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 80 OF 142

VAOT Metric

675.50 - REMOVING SIGNS
AS SHOWN - 10

N
VT STATE PLANE GRID

STA 4+890.00 LT

BARRE	5	N
MONTPELIER	7	N
N. MONTPELIER	3	N
HARDWICK	20	N

N N

STA 4+889.92 LT

BARRE	5	R
MONTPELIER	7	R
E. MONTPELIER ELEM SCHOOL		R
N. MONTPELIER	3	R
HARDWICK	20	R

R R

STA 4+916.00 LT

N
25 MPH
N N
IN

STA 4+925.36 LT

JCT VERMONT 14 R
R

STA 4+974.00 LT

SPEED LIMIT 35 N
N

STA 4+974.05 LT

SPEED LIMIT 35 R
R

STA 5+037.00 LT
APPROX.

HIDDEN DRIVE RIGHT
RET
RET

STA 5+100.00 LT
APPROX.

JCT VERMONT 14 N
N N

STA 5+100.00 LT
APPROX.

R
R R

STA 5+100.00 RT
APPROX.

R
R R

63 M
63 M

4+880 4+900 4+920 4+940 4+960 4+980 5+000 5+020 5+040 5+060

US ROUTE 2
TO PLAINFIELD

EAST 2 S
S
N

MATCH LINE STA 4+872.87

SIGN LEGEND

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

0 10 20 30
SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028-3(35)S

FILE NAME: t98b028tspmbdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
TRAFFIC SIGNS LAYOUT SHEET 3	SHEET 81 OF 142

N

VT STATE PLANE GRID

675.50 - REMOVING SIGNS
AS SHOWN - 12

675.60 - ERECTING SALVAGED SIGNS
AS SHOWN - 16

675.61- SETTING SALVAGED POSTS
AS SHOWN - 10

KELTON ROAD

STA 30+028.96 RT.
KELTON ROAD
RET

STA 30+035.00 RT
APPROX.
LEGAL LOAD LIMIT 24,000 POUNDS R+S
R+S

STA 30+035.00 RT
LEGAL LOAD LIMIT 24,000 POUNDS S
S

STA 30+022.40 RT.
JCT 2
R
R

STA 30+011.53 LT.
KELTON RD N
STOP N
N

STA 14+190.00 LT
25 MPH N
N
N

STA 14+227.97 LT
T I S R+S
T I S R+S
R+S R+S

STA 14+250.00 LT
JCT 2
S
S
S

STA 100+010.78 RT.
STOP R+S
R+S

STA 100+008.92 LT.
STOP S
S

STA 100+028.14 RT.
BARRE 5 R
MONTPELIER 7 R
PLAINFIELD 3 R+S
ST. JOHNSBURY 30 R+S
R+S R+S

STA 14+100.00 LT.
EAST 2 | WEST 2 | SOUTH VERMONT 14
S(3) S(3) N(3)
S S

STA 14+110.00 RT
ONLY N
N

STA 14+130.00 LT.
PLAINFIELD 3 S
ST. JOHNSBURY 30 S
BARRE 5 N
MONTPELIER 7 N
S S

STA 14+155.00 RT.
NORTH VERMONT 14 S
S
S

STA 14+150.32 RT.
NORTH VERMONT 14 R+S
R+S
R+S

STA 14+650.00 LT
APPROX.
T I S S
T I S S
S S

30+060
30+040
30+020
30+000
100+060
100+040
100+020
14+100
14+120
14+140
14+160
14+180
14+200
14+220
14+240
VT ROUTE 14
TO CALAIS

MATCH LINE STA 100+67.63

MATCH LINE STA 14+093.85

SIGN LEGEND

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

0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028-3(35)S

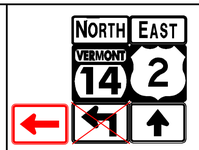
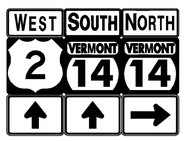
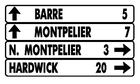
FILE NAME: t98b028tspmbdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TRAFFIC SIGNS LAYOUT SHEET 4

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 82 OF 142

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

VAOT Metric

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (In)	HEIGHT (In)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 3.4	50 3.9	63 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (mm) kg/m 75 1.9	100 2.5	100 MOD 2.5	FOUND-ATION	TUBULAR STEEL Ø (mm) kg/m 75 11.3	89 13.4	100 16.1	125 21.7	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
		OPTION ITEMS																																	
780 STA 4+620.00 RT		2	24	12	4.00						2	330"				X		X														#1	M3-1 M1-4 M5-1, M6-3		E-136A E-136B
		2	24	24	8.00																														
		2	21	15	4.38																														
STA 4+676.91 RT		1	72	20	10.0						2	321"				X		X																	E-123
STA 4+690.00 RT		1	36	36	9.00						2	330"				X		X																	E-152
		1	18	18	2.25																														E-155
STA 4+694.48 LT		2	24	12	4.00						2	327"				X		X														#1	M3-3, M3-4 M1-4		E-136A E-136B
		2	24	24	8.00																														
STA 4+755.00 RT		1	30	30	6.25						1	162"				X		X																VR-921		E-145A
STA 4+752.50 LT.		1					1			2																									E-123
75 STA 4+780.00 LT		2	24	12	4.00						2	341"				X		X														#1	M3-3, M3-4 M1-4		E-136A E-136B
		2	24	24	8.00																														
MAST ARM #2		1	24	30	5.00																													LEFT TURN YIELD ON GREEN SIGN, MUTCD R10-12 SHALL BE MOUNTED ON MAST ARM 21 FOR LEFT TURNING TRAFFIC ON US ROUTE 2		
STA 4+830.00 RT		1	24	12	2.00						1	159"				X		X																M3-2 M1-4 INSTALLED, REMOVED, THEN SALVAGED TO 5+060 RT		E-136A E-136A E-138
		1	24	24	4.00																														
		1	6	8	0.33																														
STA 4+830.00 LT		3	24	12	6.00						2	351"				X		X														#2	M3-4 M1-4 M6-3		E-136A E-136B
		3	24	24	12.00																														
		3	21	15	6.57																														
STA 4+890.00 LT		4	72	10	20.0						2	335"				X		X																	E-123
STA 4+778 RT (& 4+830 RT)							1 (+1)			1 (+1)																								FIRE TRUCK (SYMBOL) SIGN INSTALLED - THEN R&S'ED TO STA. 4+830 RT		
												m	m	m	m	m 73.2	m		EA	kg	kg	kg		kg	kg	kg	kg								
TOTALS					m2 ~~11.51~~ 123.78	m2	EA. + 3	m2				m			m 73.2					kg			EA.	kg				EA.	EA.	kg					

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

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

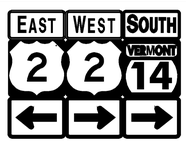
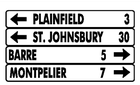
FILE NAME: t98b028tsss.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TRAFFIC SIGN SUMMARY SHEET 1

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 83 OF 142

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

VAOT Metric

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (In)	HEIGHT (In)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 3.4	50 3.9	63 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (mm) kg/m 75 1.9	100 2.5	100 MOD 2.5	FOUNDATION	TUBULAR STEEL Ø (mm) kg/m 75 11.3	89 13.4	100 16.1	125 21.7	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
											OPTION ITEMS																										
STA 4+916.00 LT		1 1	36 18	36 18	9.00 2.25						2	275"				X		X																	W3-3 W13-1		E-152 E-155
STA 4+974.00 LT		1	24	30	5.00						1	158"				X		X																	R2-1		E-142
STA 5+100.00 LT APPROX.		1 1	21 24	15 24	2.19 4.00						1	183"				X		X																	M2-1 M1-4		E-136B E-136B
STA 40+011.00 LT		1 1 1	 6	 8	 0.33			1 1		1																									A POST-TOP MOUNTING BRACKET WILL BE REQUIRED. MOUNT 0.3M ABOVE AND PERPENDICULAR TO STOP SIGN. R1-1		E-123 E-143 E-138
STA 40+020.00 RT		1					1			1																									VR-017		E-141
STA 40+045.00 RT		1	24	30	5.00						1	160"				X		X																	R2-1		E-142
STA 14+070.00 LT		1	30	36	7.50						1	177"				X		X																	VR-925		E-145A
STA 14+070.00 RT		1					1				2	377"				X		X																	W11-8		
STA 14+100.00 LT.		3 3 3	 21	 15	 6.57		3 3			2																								*2	M3-4 M1-4 M6-3		E-136A E-136B
STA 14+110.00 RT		1	30	30	6.25						1	159"				X		X																	VR-921		E-145A
STA 14+130.00 LT.		2 2	 72	 10	 10.0		2			2																											E-123
STA 5+060 RT							2			1																									INSTALLED AT 4+830 RT AS NEW THEN REMOVED AND SALVAGED		
												m	m	m	m	m 41.2	m		EA	kg	kg	kg		kg	kg	kg	kg								
TOTALS		m2 ~~5.40~~ 58.09		m2	EA. ~~12~~ 15	m2						m			m 41.2					kg			EA.	kg				EA.	EA.	kg					

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

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028tsss.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TRAFFIC SIGN SUMMARY SHEET 2

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 84 OF 142

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

VAOT Metric

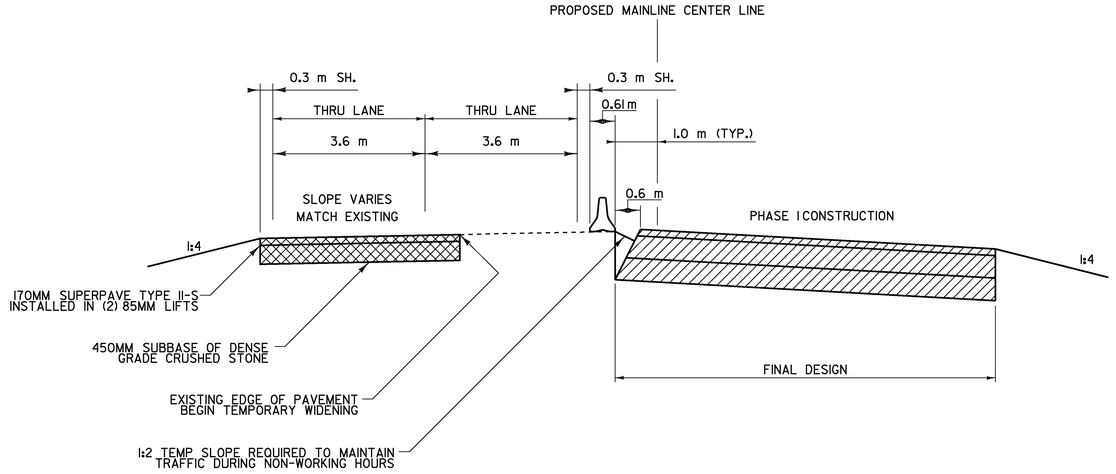
KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (In)	HEIGHT (In)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 3.4	50 3.9	63 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (mm) kg/m 75 1.9	100 2.5	100 MOD 2.5	TUBULAR STEEL Ø (mm) FOUNDATION	kg/m 75 11.3	89 13.4	100 16.1	125 21.7	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
											OPTION ITEMS																									
STA 14+155.00 RT.	NORTH VERMONT 14	1 1					1 1			1																							M3-1 M1-4		E-136B E-136B
STA 14+190.00 LT	25 M.P.H.	1 1	36 18	36 18	9.00 2.25						2	336"				X		X															W3-3 W13-1		E-152 E-155
STA 14+250.00 LT	JCT 2	1 1					1 1			1																							M2-1 M1-4		E-136A E-136A
STA 14+~~650~~ 228.00 LT APPROX.	TIS TIS	1 1						1 1		2																							RETAINED		E-125
STA 30+011.53 LT	KELTON RD STOP	1 1	30 30	12 30	2.50 6.25						1	175"				X		X															RI-1		E-123 E-143
STA 30+035.00 RT	LEGAL LOAD LIMIT 24,000 POUNDS	1					1			1																							VR-017		E-141
STA 100+008.92 LT.	STOP	1					1			1																							RI-1		E-143
STA 100+097.03 RT	RESERVED PARKING	1	12	18	1.50						1	132"				X		X															R7-8		
STA 100+102.53 RT	RESERVED PARKING VAN ACCESSIBLE	1 1	12 12	18 6	1.50 0.50						1	132"				X		X															R7-8 R7-8A		
	TSSS 1 TOTALS				11.51		~~1~~ 3			2						73.2																				
	TSSS 2 TOTALS				5.40		~~12~~ 15			6						41.2																				
	TSSS 3 TOTALS				2.18		6	2		6						22.9																				
											m	m	m	m	m 137.3	m		EA	kg	kg	kg		kg	kg	kg	kg								
	TOTALS				m² 19.09 23.5 SF	m²	EA. ~~19~~ 24	EA. 2			m			m 137.3				kg		EA.	kg					EA.	EA.	kg							

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

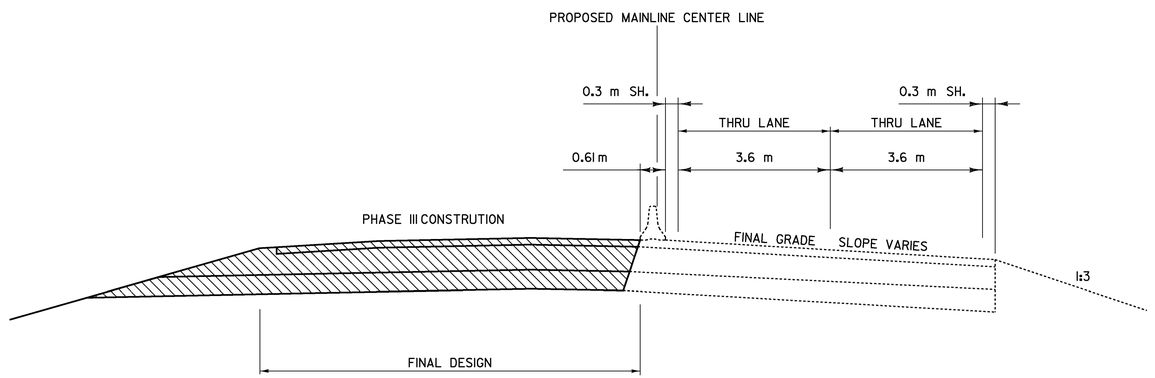
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028tsss.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TRAFFIC SIGN SUMMARY SHEET 3

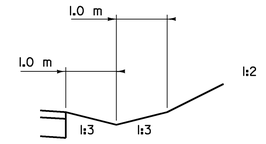
PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 85 OF 142



US 2 - PHASE I & II
(NOT TO SCALE)



US 2 - PHASE III
(NOT TO SCALE)



TEMPORARY DITCH DETAIL

TEMPORARY WIDENING GENERAL NOTES

1. DURING TEMPORARY WIDENING FOR PHASE I & II, FULL DEPTH RECONSTRUCTION SHALL OCCUR WITHIN THE MAINLINE TYPICAL SECTION LIMITS AND/OR THE TEMPORARY DETOUR LIMITS
2. THE PAVEMENT WEARING COURSE SHALL BE APPLIED AFTER FULL DEPTH RECONSTRUCTION HAS BEEN COMPLETED
3. REFERENCE TRAFFIC CONTROL PLAN SHEETS FOR ALL ALIGNMENT SHIFTS
4. THE TEMPORARY WIDENING FOR PHASE I & II TRAFFIC SHALL BE REMOVED AFTER THE COMPLETION OF ALL PHASE III CONSTRUCTION
5. PAYMENT FOR THE TEMPORARY WIDENING WILL BE MADE UNDER ITEM NO. 900.645 (TEMPORARY ROADWAY)

LEGEND

= PHASE I CONSTRUCTION

= TEMPORARY WIDENING FOR PHASE I & II TRAFFIC

= PHASE III CONSTRUCTION

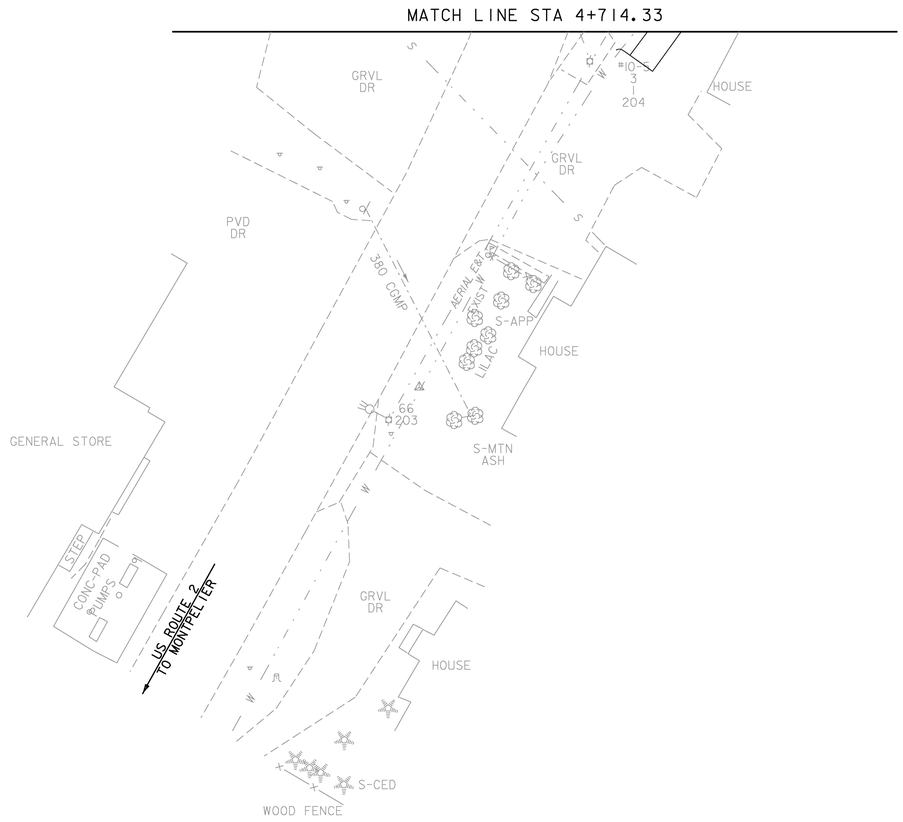
PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028trafcntrl1.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
TRAFFIC CONTROL TYPICAL SHEET	SHEET 86 OF 142

N

VT STATE PLANE GRID

NOTES:

1. TRAFFIC CONTROL PHASE I SHALL CONSIST OF TEMPORARY ROAD CLOSURE WITH DIVERSION ON US ROUTE 2 AND VT ROUTE 14. REFER TO MUTCD FIGURE 6H-7, ROAD CLOSURE WITH DIVERSION (TYPICAL APPLICATION 7).
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2 AND VT ROUTE 14 SHALL BE RESTORED TO FULL CAPACITY AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.
3. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED AS DENOTED ON TRAFFIC CONTROL LAYOUT SHEETS, AND SHALL BE PAID UNDER CONTRACT ITEM 900.645 (TEMPORARY ROADWAY).
4. ADDITIONAL TRAFFIC CONTROL WARNING SIGNS MAY BE REQUIRED AND SHALL BE INSTALLED AS REQUESTED BY THE RESIDENT ENGINEER PER THE MUTCD. PAYMENT FOR THESE SIGNS, THE REFLECTORIZED PLASTIC DRUMS, ETC., SHALL BE PAID UNDER CONTRACT ITEM 641.10.
5. ACCESS TO RESIDENTIAL DRIVES, COMMERCIAL DRIVES, AND TOWN HIGHWAYS SHALL BE MAINTAINED THROUGHOUT THE PROJECT'S DURATION.
6. NON CRASHWORTHY FEATURES RESULTING FROM CONSTRUCTION ACTIVITIES THAT ARE LOCATED WITHIN THE CLEAR ZONE SHALL BE PROPERLY PROTECTED. ALL TEMPORARY DEVICES SHALL BE NCHRP COMPLIANT AND SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 621. PAYMENT FOR TEMPORARY TRAFFIC BARRIER WILL BE MADE UNDER ITEM NO. 621.90 AND ENERGY ABSORPTION ATTENUATORS WILL BE MADE UNDER ITEM NO. 621.56.
7. IF TEMPORARY BARRIER IS USED, BARRIER ENDS FACING ONCOMING TRAFFIC SHALL BE TAPERED BEYOND THE CLEAR ZONE, OR PROTECTED WITH AN APPROVED END TREATMENT. IF TEMPORARY BARRIER IS TO BE RELOCATED, PAYMENT WILL BE MADE UNDER ITEM NO. 621.95 REMOVE AND RESET TEMPORARY TRAFFIC BARRIER. IF AN ENERGY ABSORPTION ATTENUATOR IS TO BE RELOCATED, IT WILL BE CONSIDERED INCIDENTAL TO ITEM NO. 621.56.
8. AS PER THE DISPLAYED TRAFFIC CONTROL PLAN, THE REMOVAL AND RESETTING OF TEMPORARY TRAFFIC BARRIER IS ONLY ANTICIPATED BETWEEN TRAFFIC CONTROL PHASES.



0 10 20 30

SCALE IN METERS

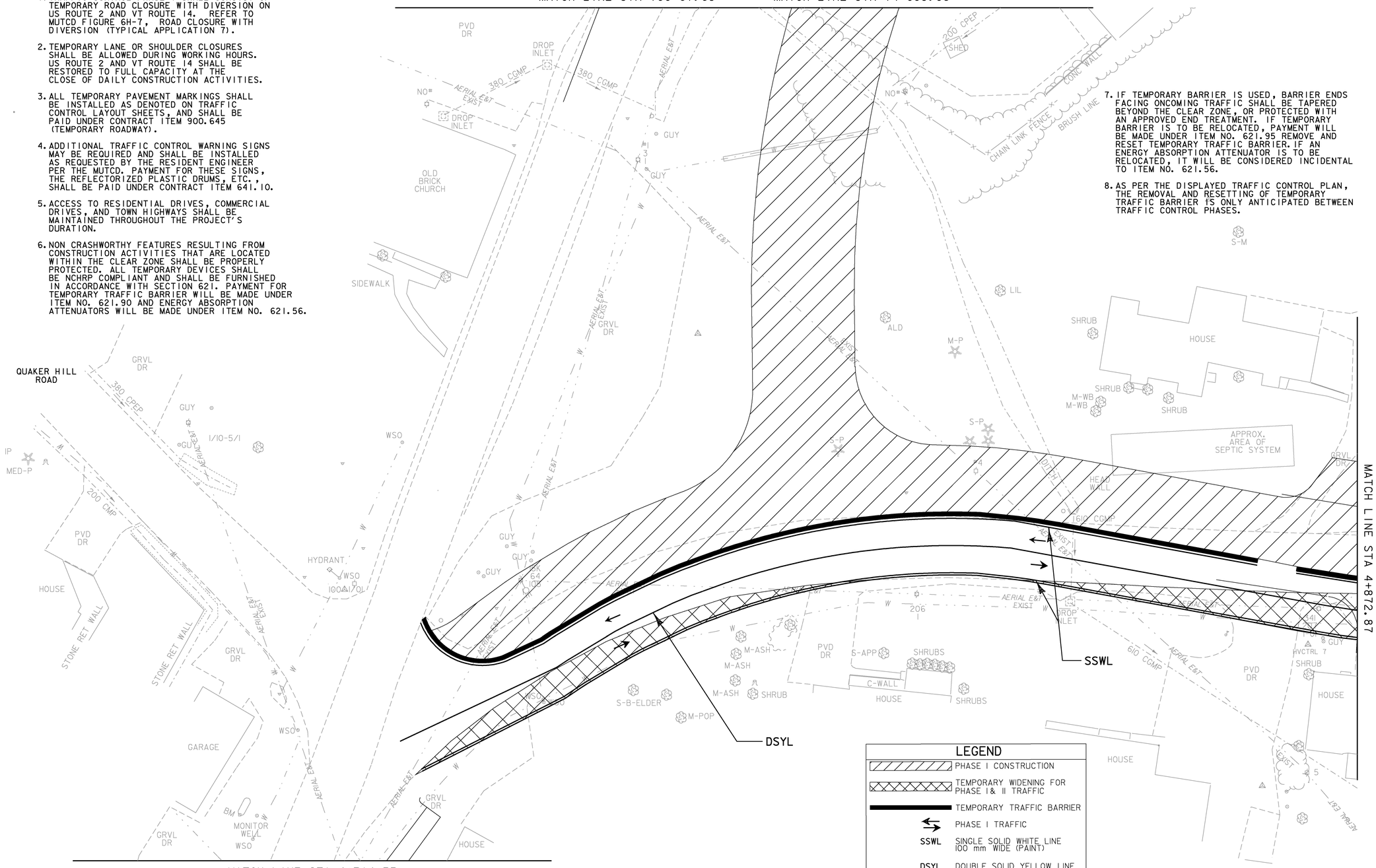
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028tcplbdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TC PHASE I LAYOUT SHEET 1

PLOT DATE: 22-MAR-2010
DRAWN BY: I.DEGUTIS
CHECKED BY: J. DEVLIN
SHEET 87 OF 142

NOTES:

1. TRAFFIC CONTROL PHASE I SHALL CONSIST OF TEMPORARY ROAD CLOSURE WITH DIVERSION ON US ROUTE 2 AND VT ROUTE 14. REFER TO MUTCD FIGURE 6H-7, ROAD CLOSURE WITH DIVERSION (TYPICAL APPLICATION 7).
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2 AND VT ROUTE 14 SHALL BE RESTORED TO FULL CAPACITY AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.
3. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED AS DENOTED ON TRAFFIC CONTROL LAYOUT SHEETS, AND SHALL BE PAID UNDER CONTRACT ITEM 900.645 (TEMPORARY ROADWAY).
4. ADDITIONAL TRAFFIC CONTROL WARNING SIGNS MAY BE REQUIRED AND SHALL BE INSTALLED AS REQUESTED BY THE RESIDENT ENGINEER PER THE MUTCD. PAYMENT FOR THESE SIGNS, THE REFLECTORIZED PLASTIC DRUMS, ETC., SHALL BE PAID UNDER CONTRACT ITEM 641.10.
5. ACCESS TO RESIDENTIAL DRIVES, COMMERCIAL DRIVES, AND TOWN HIGHWAYS SHALL BE MAINTAINED THROUGHOUT THE PROJECT'S DURATION.
6. NON CRASHWORTHY FEATURES RESULTING FROM CONSTRUCTION ACTIVITIES THAT ARE LOCATED WITHIN THE CLEAR ZONE SHALL BE PROPERLY PROTECTED. ALL TEMPORARY DEVICES SHALL BE NCHRP COMPLIANT AND SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 621. PAYMENT FOR TEMPORARY TRAFFIC BARRIER WILL BE MADE UNDER ITEM NO. 621.90 AND ENERGY ABSORPTION ATTENUATORS WILL BE MADE UNDER ITEM NO. 621.56.
7. IF TEMPORARY BARRIER IS USED, BARRIER ENDS FACING ONCOMING TRAFFIC SHALL BE TAPERED BEYOND THE CLEAR ZONE, OR PROTECTED WITH AN APPROVED END TREATMENT. IF TEMPORARY BARRIER IS TO BE RELOCATED, PAYMENT WILL BE MADE UNDER ITEM NO. 621.95 REMOVE AND RESET TEMPORARY TRAFFIC BARRIER. IF AN ENERGY ABSORPTION ATTENUATOR IS TO BE RELOCATED, IT WILL BE CONSIDERED INCIDENTAL TO ITEM NO. 621.56.
8. AS PER THE DISPLAYED TRAFFIC CONTROL PLAN, THE REMOVAL AND RESETTING OF TEMPORARY TRAFFIC BARRIER IS ONLY ANTICIPATED BETWEEN TRAFFIC CONTROL PHASES.



LEGEND

- PHASE I CONSTRUCTION
- TEMPORARY WIDENING FOR PHASE I & II TRAFFIC
- TEMPORARY TRAFFIC BARRIER
- PHASE I TRAFFIC
- SSWL — SINGLE SOLID WHITE LINE 100 mm WIDE (PAINT)
- DSYL — DOUBLE SOLID YELLOW LINE 100mm WIDE (PAINT)

0 10 20 30

SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028tcplbdr-.dgn	PLOT DATE: 29-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: I. DEGUTIS
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
TC PHASE I LAYOUT SHEET 2	SHEET 88 OF 142

VAOT Metric

NOTES:

1. TRAFFIC CONTROL PHASE I SHALL CONSIST OF TEMPORARY ROAD CLOSURE WITH DIVERSION ON US ROUTE 2 AND VT ROUTE 14. REFER TO MUTCD FIGURE 6H-7, ROAD CLOSURE WITH DIVERSION (TYPICAL APPLICATION 7).

2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2 AND VT ROUTE 14 SHALL BE RESTORED TO FULL CAPACITY AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

3. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED AS DENOTED ON TRAFFIC CONTROL LAYOUT SHEETS, AND SHALL BE PAID UNDER CONTRACT ITEM 900.645 (TEMPORARY ROADWAY).

4. ADDITIONAL TRAFFIC CONTROL WARNING SIGNS MAY BE REQUIRED AND SHALL BE INSTALLED AS REQUESTED BY THE RESIDENT ENGINEER PER THE MUTCD. PAYMENT FOR THESE SIGNS, THE REFLECTORIZED PLASTIC DRUMS, ETC., SHALL BE PAID UNDER CONTRACT ITEM 641.10.

5. ACCESS TO RESIDENTIAL DRIVES, COMMERCIAL DRIVES, AND TOWN HIGHWAYS SHALL BE MAINTAINED THROUGHOUT THE PROJECT'S DURATION.

6. NON CRASHWORTHY FEATURES RESULTING FROM CONSTRUCTION ACTIVITIES THAT ARE LOCATED WITHIN THE CLEAR ZONE SHALL BE PROPERLY PROTECTED. ALL TEMPORARY DEVICES SHALL BE NCHRP COMPLIANT AND SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 621. PAYMENT FOR TEMPORARY TRAFFIC BARRIER WILL BE MADE UNDER ITEM NO. 621.90 AND ENERGY ABSORPTION ATTENUATORS WILL BE MADE UNDER ITEM NO. 621.56.

7. IF TEMPORARY BARRIER IS USED, BARRIER ENDS FACING ONCOMING TRAFFIC SHALL BE TAPERED BEYOND THE CLEAR ZONE, OR PROTECTED WITH AN APPROVED END TREATMENT. IF TEMPORARY BARRIER IS TO BE RELOCATED, PAYMENT WILL BE MADE UNDER ITEM NO. 621.95 REMOVE AND RESET TEMPORARY TRAFFIC BARRIER. IF AN ENERGY ABSORPTION ATTENUATOR IS TO BE RELOCATED, IT WILL BE CONSIDERED INCIDENTAL TO ITEM NO. 621.56.

8. AS PER THE DISPLAYED TRAFFIC CONTROL PLAN, THE REMOVAL AND RESETTING OF TEMPORARY TRAFFIC BARRIER IS ONLY ANTICIPATED BETWEEN TRAFFIC CONTROL PHASES.

LEGEND

	PHASE I CONSTRUCTION
	TEMPORARY WIDENING FOR PHASE I & II TRAFFIC
	TEMPORARY TRAFFIC BARRIER
	PHASE I TRAFFIC
SSWL	SINGLE SOLID WHITE LINE 100 mm WIDE (PAINT)
DSYL	DOUBLE SOLID YELLOW LINE 100mm WIDE (PAINT)
	TRAFFIC CONTROL DRUM

0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028tcplbdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TC PHASE I LAYOUT SHEET 3

PLOT DATE: 22-MAR-2010
DRAWN BY: I. DEGUTIS
CHECKED BY: J. DEVLIN
SHEET 89 OF 142

N

VT STATE PLANE GRID

NOTES:

1. TRAFFIC CONTROL PHASE I SHALL CONSIST OF TEMPORARY ROAD CLOSURE WITH DIVERSION ON US ROUTE 2 AND VT ROUTE 14. REFER TO MUTCD FIGURE 6H-7, ROAD CLOSURE WITH DIVERSION (TYPICAL APPLICATION 7).

2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2 AND VT ROUTE 14 SHALL BE RESTORED TO FULL CAPACITY AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

3. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED AS DENOTED ON TRAFFIC CONTROL LAYOUT SHEETS, AND SHALL BE PAID UNDER CONTRACT ITEM 900.645 (TEMPORARY ROADWAY).

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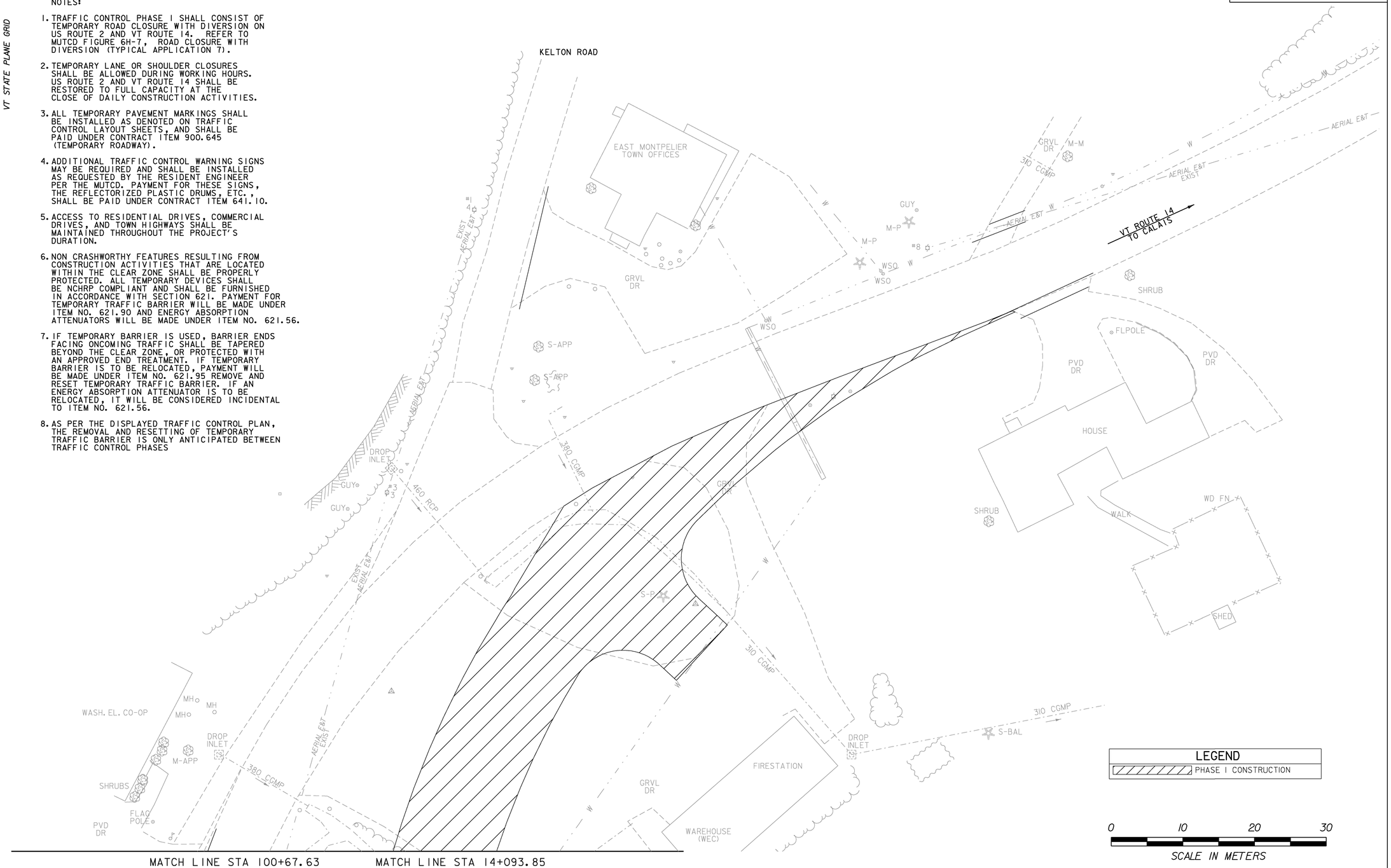
8. AS PER THE DISPLAYED TRAFFIC CONTROL PLAN, THE REMOVAL AND RESETTING OF TEMPORARY TRAFFIC BARRIER IS ONLY ANTICIPATED BETWEEN TRAFFIC CONTROL PHASES



LEGEND

PHASE I CONSTRUCTION

0 10 20 30

SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028tcplbdr.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: I. DEGUTIS
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
TC PHASE I LAYOUT SHEET 4	SHEET 90 OF 142

N

VT STATE PLANE GRID

NOTES:

1. TRAFFIC CONTROL PHASE II SHALL CONSIST OF TEMPORARY ROAD CLOSURE WITH DIVERSION ON US ROUTE 2 AND VT ROUTE 14. REFER TO MUTCD FIGURE 6H-7, ROAD CLOSURE WITH DIVERSION (TYPICAL APPLICATION 7). TRAFFIC CONTROL FOR QUAKER HILL ROAD AND KELTON ROAD WILL CONSIST OF ONE-WAY TRAFFIC, REFER TO MUTCD FIGURE 6H-10, LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).

2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2, VT ROUTE 14, QUAKER HILL ROAD, AND KELTON ROAD SHALL BE RESTORED TO FULL CAPACITY AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

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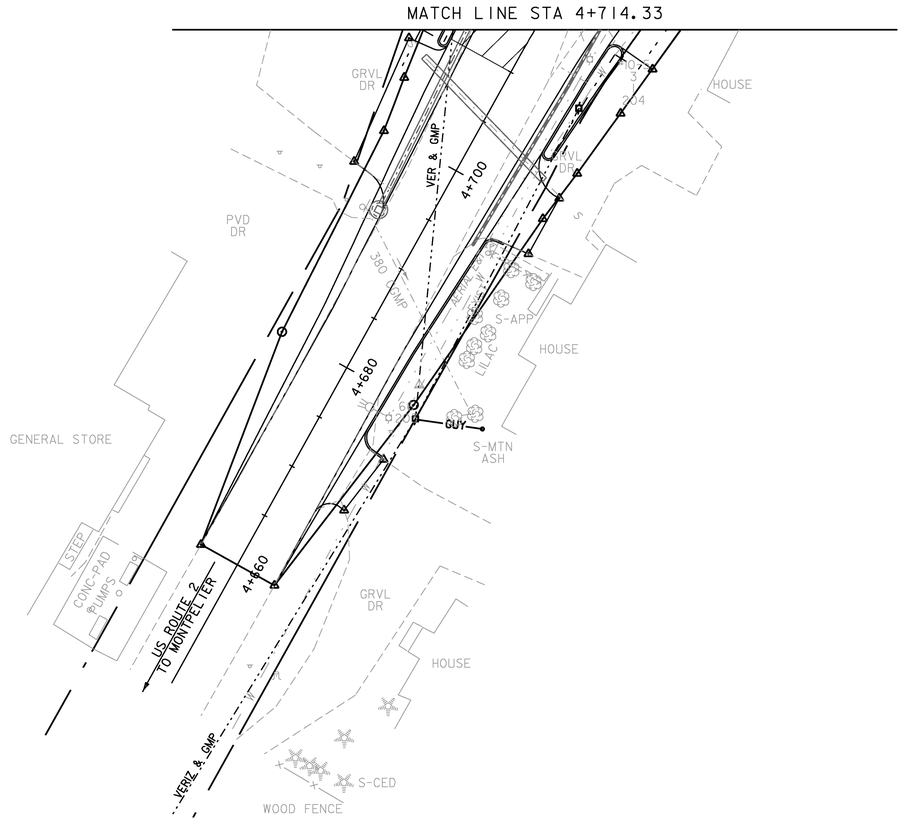
8. AS PER THE DISPLAYED TRAFFIC CONTROL PLAN, THE REMOVAL AND RESETTING OF TEMPORARY TRAFFIC BARRIER IS ONLY ANTICIPATED BETWEEN TRAFFIC CONTROL PHASES.



LEGEND

PHASE II CONSTRUCTION

0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028tcp2bdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TC PHASE 2 LAYOUT SHEET 1

PLOT DATE: 22-MAR-2010
DRAWN BY: I. DEGUTIS
CHECKED BY: J. DEVLIN
SHEET 91 OF 142

NOTES:

1. TRAFFIC CONTROL PHASE II SHALL CONSIST OF TEMPORARY ROAD CLOSURE WITH DIVERSION ON US ROUTE 2 AND VT ROUTE 14. REFER TO MUTCD FIGURE 6H-7, ROAD CLOSURE WITH DIVERSION (TYPICAL APPLICATION 7). TRAFFIC CONTROL FOR QUAKER HILL ROAD AND KELTON ROAD WILL CONSIST OF ONE-WAY TRAFFIC, REFER TO MUTCD FIGURE 6H-10, LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).

2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2, VT ROUTE 14, QUAKER HILL ROAD, AND KELTON ROAD SHALL BE RESTORED TO FULL CAPACITY AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

3. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED AS DENOTED ON TRAFFIC CONTROL LAYOUT SHEETS, AND SHALL BE PAID UNDER CONTRACT ITEM 900.645 (TEMPORARY ROADWAY).

4. ADDITIONAL TRAFFIC CONTROL WARNING SIGNS MAY BE REQUIRED AND SHALL BE INSTALLED AS REQUESTED BY THE RESIDENT ENGINEER PER THE MUTCD. PAYMENT FOR THESE SIGNS, THE REFLECTORIZED PLASTIC DRUMS, ETC., SHALL BE PAID UNDER CONTRACT ITEM 641.10.

5. ACCESS TO RESIDENTIAL DRIVES, COMMERCIAL DRIVES, AND TOWN HIGHWAYS SHALL BE MAINTAINED THROUGHOUT THE PROJECT'S DURATION.

6. NON CRASHWORTHY FEATURES RESULTING FROM CONSTRUCTION ACTIVITIES THAT ARE LOCATED WITHIN THE CLEAR ZONE SHALL BE PROPERLY PROTECTED. ALL TEMPORARY DEVICES SHALL BE NCHRP COMPLIANT AND SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 621. PAYMENT FOR TEMPORARY TRAFFIC BARRIER WILL BE MADE UNDER ITEM NO. 621.95 AND ENERGY ABSORPTION ATTENUATORS WILL BE MADE UNDER ITEM NO. 621.56.

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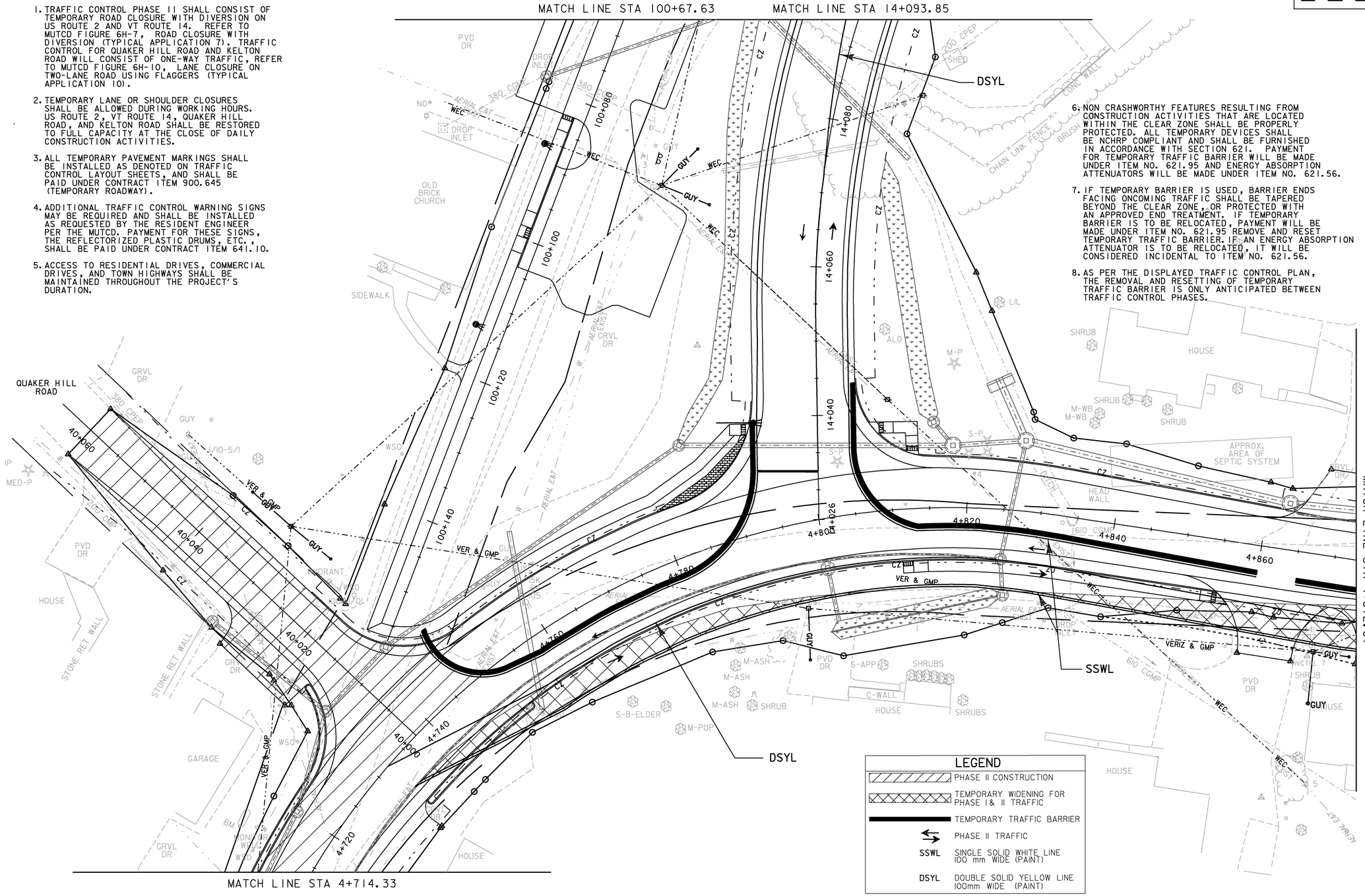
8. AS PER THE DISPLAYED TRAFFIC CONTROL PLAN, THE REMOVAL AND RESETTING OF TEMPORARY TRAFFIC BARRIER IS ONLY ANTICIPATED BETWEEN TRAFFIC CONTROL PHASES.



PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028tcp2bdr.dgn	PLOT DATE: 29-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: I. DEGUTIS
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
TC PHASE 2 LAYOUT SHEET 2	SHEET 92 OF 142

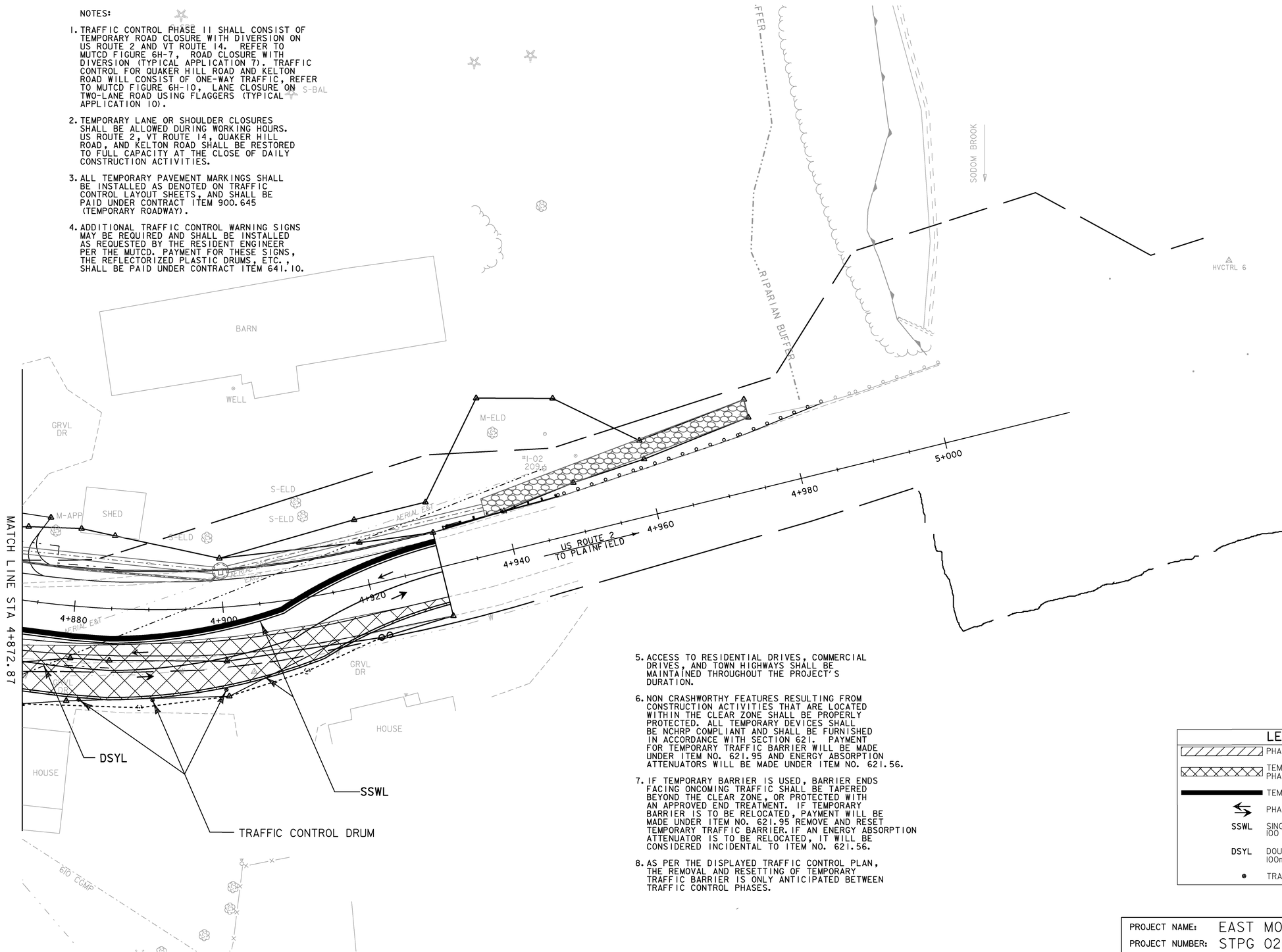
NOTES:

1. TRAFFIC CONTROL PHASE II SHALL CONSIST OF TEMPORARY ROAD CLOSURE WITH DIVERSION ON US ROUTE 2 AND VT ROUTE 14. REFER TO MUTCD FIGURE 6H-7, ROAD CLOSURE WITH DIVERSION (TYPICAL APPLICATION 7). TRAFFIC CONTROL FOR QUAKER HILL ROAD AND KELTON ROAD WILL CONSIST OF ONE-WAY TRAFFIC, REFER TO MUTCD FIGURE 6H-10, LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).

2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2, VT ROUTE 14, QUAKER HILL ROAD, AND KELTON ROAD SHALL BE RESTORED TO FULL CAPACITY AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

3. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED AS DENOTED ON TRAFFIC CONTROL LAYOUT SHEETS, AND SHALL BE PAID UNDER CONTRACT ITEM 900.645 (TEMPORARY ROADWAY).

4. ADDITIONAL TRAFFIC CONTROL WARNING SIGNS MAY BE REQUIRED AND SHALL BE INSTALLED AS REQUESTED BY THE RESIDENT ENGINEER PER THE MUTCD. PAYMENT FOR THESE SIGNS, THE REFLECTORIZED PLASTIC DRUMS, ETC., SHALL BE PAID UNDER CONTRACT ITEM 641.10.



5. ACCESS TO RESIDENTIAL DRIVES, COMMERCIAL DRIVES, AND TOWN HIGHWAYS SHALL BE MAINTAINED THROUGHOUT THE PROJECT'S DURATION.

6. NON CRASHWORTHY FEATURES RESULTING FROM CONSTRUCTION ACTIVITIES THAT ARE LOCATED WITHIN THE CLEAR ZONE SHALL BE PROPERLY PROTECTED. ALL TEMPORARY DEVICES SHALL BE NCHRP COMPLIANT AND SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 621. PAYMENT FOR TEMPORARY TRAFFIC BARRIER WILL BE MADE UNDER ITEM NO. 621.95 AND ENERGY ABSORPTION ATTENUATORS WILL BE MADE UNDER ITEM NO. 621.56.

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8. AS PER THE DISPLAYED TRAFFIC CONTROL PLAN, THE REMOVAL AND RESETTING OF TEMPORARY TRAFFIC BARRIER IS ONLY ANTICIPATED BETWEEN TRAFFIC CONTROL PHASES.

LEGEND

	PHASE II CONSTRUCTION
	TEMPORARY WIDENING FOR PHASE I & II TRAFFIC
	TEMPORARY TRAFFIC BARRIER
	PHASE II TRAFFIC
SSWL	SINGLE SOLID WHITE LINE 100 mm WIDE (PAINT)
DSYL	DOUBLE SOLID YELLOW LINE 100mm WIDE (PAINT)
	TRAFFIC CONTROL DRUM

0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028tcp2bdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TC PHASE 2 LAYOUT SHEET 3

PLOT DATE: 29-MAR-2010
DRAWN BY: I. DEGUTIS
CHECKED BY: J. DEVLIN
SHEET 93 OF 142

N

VT STATE PLANE GRID

NOTES:

1. TRAFFIC CONTROL PHASE II SHALL CONSIST OF TEMPORARY ROAD CLOSURE WITH DIVERSION ON US ROUTE 2 AND VT ROUTE 14. REFER TO MUTCD FIGURE 6H-7, ROAD CLOSURE WITH DIVERSION (TYPICAL APPLICATION 7). TRAFFIC CONTROL FOR QUAKER HILL ROAD AND KELTON ROAD WILL CONSIST OF ONE-WAY TRAFFIC, REFER TO MUTCD FIGURE 6H-10, LANE CLOSURE ON TWO-LANE ROAD USING FLAGGERS (TYPICAL APPLICATION 10).

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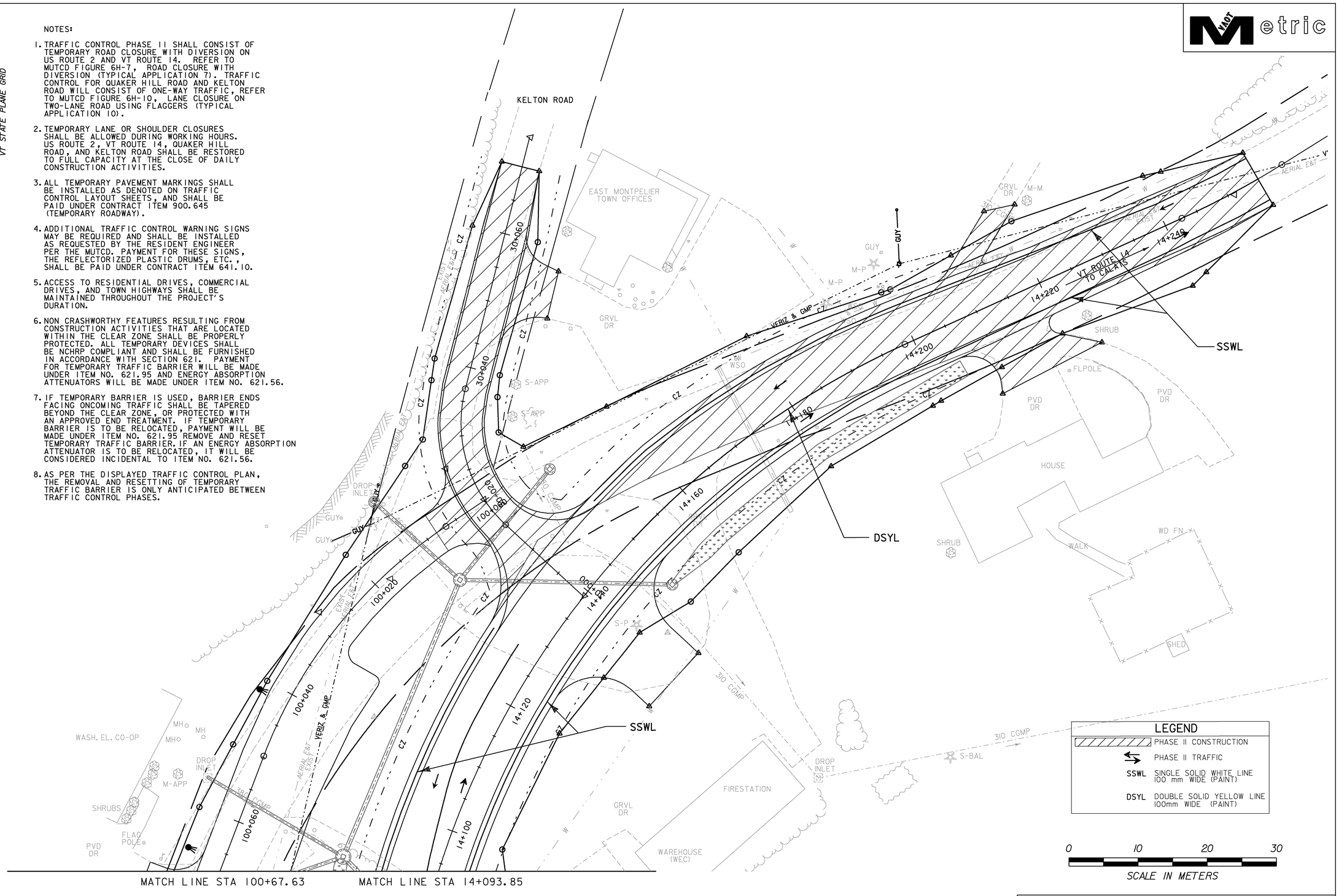


LEGEND	
	PHASE II CONSTRUCTION
	PHASE II TRAFFIC
SSWL	SINGLE SOLID WHITE LINE 100 mm WIDE (PAINT)
DSYL	DOUBLE SOLID YELLOW LINE 100mm WIDE (PAINT)

0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028tcp2bdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TC PHASE 2 LAYOUT SHEET 4

PLOT DATE: 22-MAR-2010
DRAWN BY: I. DEGUTIS
CHECKED BY: J. DEVLIN
SHEET 94 OF 142

N

VT STATE PLANE GRID

NOTES:

1. TRAFFIC CONTROL PHASE III SHALL CONSIST OF TEMPORARY ROAD CLOSURE WITH DIVERSION ON US ROUTE 2 AND VT ROUTE 14. REFER TO MUTCD FIGURE 6H-7, ROAD CLOSURE WITH DIVERSION (TYPICAL APPLICATION 7).

2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2 AND VT 14 SHALL BE RESTORED TO FULL CAPACITY AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

3. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED AS DENOTED ON TRAFFIC CONTROL LAYOUT SHEETS, AND SHALL BE PAID UNDER CONTRACT ITEM 900.645 (TEMPORARY ROADWAY)

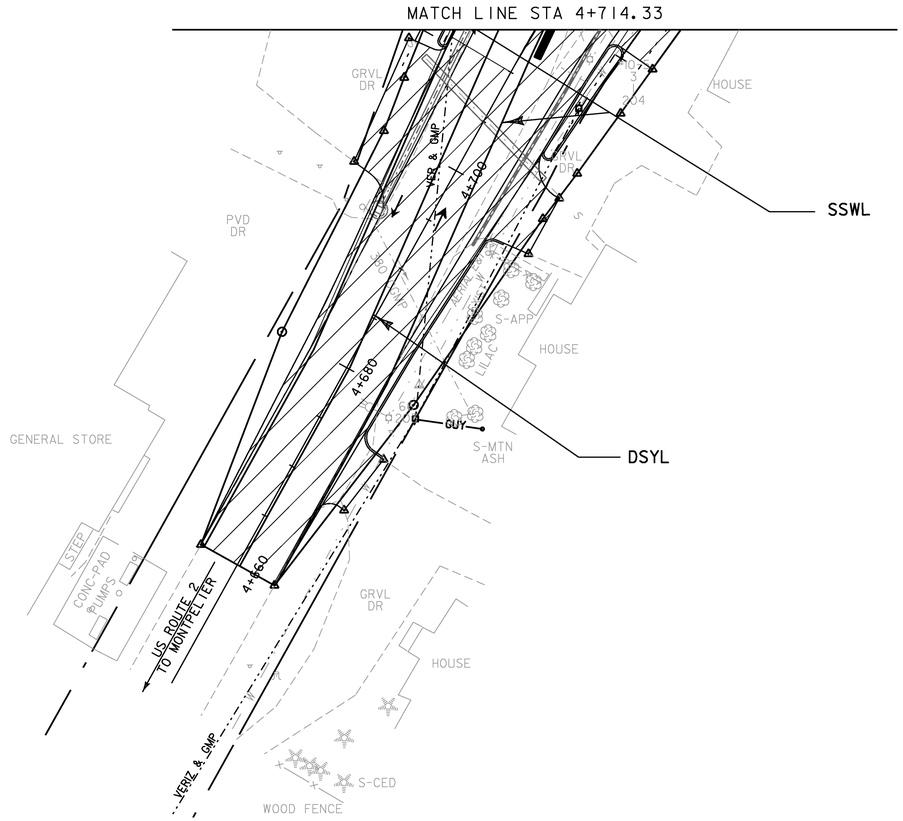
4. ADDITIONAL TRAFFIC CONTROL WARNING SIGNS MAY BE REQUIRED AND SHALL BE INSTALLED AS REQUESTED BY THE RESIDENT ENGINEER PER THE MUTCD. PAYMENT FOR THESE SIGNS, THE REFLECTORIZED PLASTIC DRUMS, ETC., SHALL BE PAID UNDER CONTRACT ITEM 641.10.

5. ACCESS TO RESIDENTIAL DRIVES, COMMERCIAL DRIVES, AND TOWN HIGHWAYS SHALL BE MAINTAINED THROUGHOUT THE PROJECT'S DURATION.

6. NON CRASHWORTHY FEATURES RESULTING FROM CONSTRUCTION ACTIVITIES THAT ARE LOCATED WITHIN THE CLEAR ZONE SHALL BE PROPERLY PROTECTED. ALL TEMPORARY DEVICES SHALL BE NCHRP COMPLIANT AND SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 621. PAYMENT FOR TEMPORARY TRAFFIC BARRIER WILL BE MADE UNDER ITEM NO. 621.90 AND ENERGY ABSORPTION ATTENUATORS WILL BE MADE UNDER ITEM NO. 621.56.

7. IF TEMPORARY BARRIER IS USED, BARRIER ENDS FACING ONCOMING TRAFFIC SHALL BE TAPERED BEYOND THE CLEAR ZONE, OR PROTECTED WITH AN APPROVED END TREATMENT. IF TEMPORARY BARRIER IS TO BE RELOCATED, PAYMENT WILL BE MADE UNDER ITEM NO. 621.95 REMOVE AND RESET TEMPORARY TRAFFIC BARRIER. IF AN ENERGY ABSORPTION ATTENUATOR IS TO BE RELOCATED, IT WILL BE CONSIDERED INCIDENTAL TO ITEM NO. 621.56.

8. AS PER THE DISPLAYED TRAFFIC CONTROL PLAN, THE REMOVAL AND RESETTING OF TEMPORARY TRAFFIC BARRIER IS ONLY ANTICIPATED BETWEEN TRAFFIC CONTROL PHASES.



LEGEND	
	PHASE III CONSTRUCTION
	PHASE III TRAFFIC
SSWL	SINGLE SOLID WHITE LINE 100 mm WIDE (PAINT)
DSYL	DOUBLE SOLID YELLOW LINE 100mm WIDE (PAINT)

0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028tcp3bdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TC PHASE 3 LAYOUT SHEET 1

PLOT DATE: 29-MAR-2010
DRAWN BY: I. DEGUTIS
CHECKED BY: J. DEVLIN
SHEET 95 OF 142

NOTES:

1. TRAFFIC CONTROL PHASE III SHALL CONSIST OF TEMPORARY ROAD CLOSURE WITH DIVERSION ON US ROUTE 2 AND VT ROUTE 14. REFER TO MUTCD FIGURE 6H-7, ROAD CLOSURE WITH DIVERSION (TYPICAL APPLICATION 7).
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2 AND VT 14 SHALL BE RESTORED TO FULL CAPACITY AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.
3. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED AS DENOTED ON TRAFFIC CONTROL LAYOUT SHEETS, AND SHALL BE PAID UNDER CONTRACT ITEM 900.645 (TEMPORARY ROADWAY)
4. ADDITIONAL TRAFFIC CONTROL WARNING SIGNS MAY BE REQUIRED AND SHALL BE INSTALLED AS REQUESTED BY THE RESIDENT ENGINEER PER THE MUTCD. PAYMENT FOR THESE SIGNS, THE REFLECTORIZED PLASTIC DRUMS, ETC., SHALL BE PAID UNDER CONTRACT ITEM 641.10.
5. ACCESS TO RESIDENTIAL DRIVES, COMMERCIAL DRIVES, AND TOWN HIGHWAYS SHALL BE MAINTAINED THROUGHOUT THE PROJECT'S DURATION.
6. NON CRASHWORTHY FEATURES RESULTING FROM CONSTRUCTION ACTIVITIES THAT ARE LOCATED WITHIN THE CLEAR ZONE SHALL BE PROPERLY PROTECTED. ALL TEMPORARY DEVICES SHALL BE NCHRP COMPLIANT AND SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 621. PAYMENT FOR TEMPORARY TRAFFIC BARRIER WILL BE MADE UNDER ITEM NO. 621.90 AND ENERGY ABSORPTION ATTENUATORS WILL BE MADE UNDER ITEM NO. 621.56.
7. IF TEMPORARY BARRIER IS USED, BARRIER ENDS FACING ONCOMING TRAFFIC SHALL BE TAPERED BEYOND THE CLEAR ZONE, OR PROTECTED WITH AN APPROVED END TREATMENT. IF TEMPORARY BARRIER IS TO BE RELOCATED, PAYMENT WILL BE MADE UNDER ITEM NO. 621.95 REMOVE AND RESET TEMPORARY TRAFFIC BARRIER. IF AN ENERGY ABSORPTION ATTENUATOR IS TO BE RELOCATED, IT WILL BE CONSIDERED INCIDENTAL TO ITEM NO. 621.56.
8. AS PER THE DISPLAYED TRAFFIC CONTROL PLAN, THE REMOVAL AND RESETTING OF TEMPORARY TRAFFIC BARRIER IS ONLY ANTICIPATED BETWEEN TRAFFIC CONTROL PHASES.

MATCH LINE STA 100+67.63

MATCH LINE STA 14+093.85

MATCH LINE STA 4+872.87

MATCH LINE STA 4+714.33

DSYL

SSWL

N

VT STATE PLANE GRID

LEGEND

- PHASE III CONSTRUCTION
- TEMPORARY TRAFFIC BARRIER
- PHASE III TRAFFIC
- SSWL — SINGLE SOLID WHITE LINE 100 mm WIDE (PAINT)
- DSYL — DOUBLE SOLID YELLOW LINE 100mm WIDE (PAINT)

0 10 20 30

SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028tcp3bdr.dgn	PLOT DATE: 29-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: I. DEGUTIS
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
TC PHASE 3 LAYOUT SHEET 2	SHEET 96 OF 142

NOTES:

1. TRAFFIC CONTROL PHASE III SHALL CONSIST OF TEMPORARY ROAD CLOSURE WITH DIVERSION ON US ROUTE 2 AND VT ROUTE 14. REFER TO MUTCD FIGURE 6H-7, ROAD CLOSURE WITH DIVERSION (TYPICAL APPLICATION 7).
2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2 AND VT 14 SHALL BE RESTORED TO FULL CAPACITY AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.
3. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED AS DENOTED ON TRAFFIC CONTROL LAYOUT SHEETS, AND SHALL BE PAID UNDER CONTRACT ITEM 900.645 (TEMPORARY ROADWAY)
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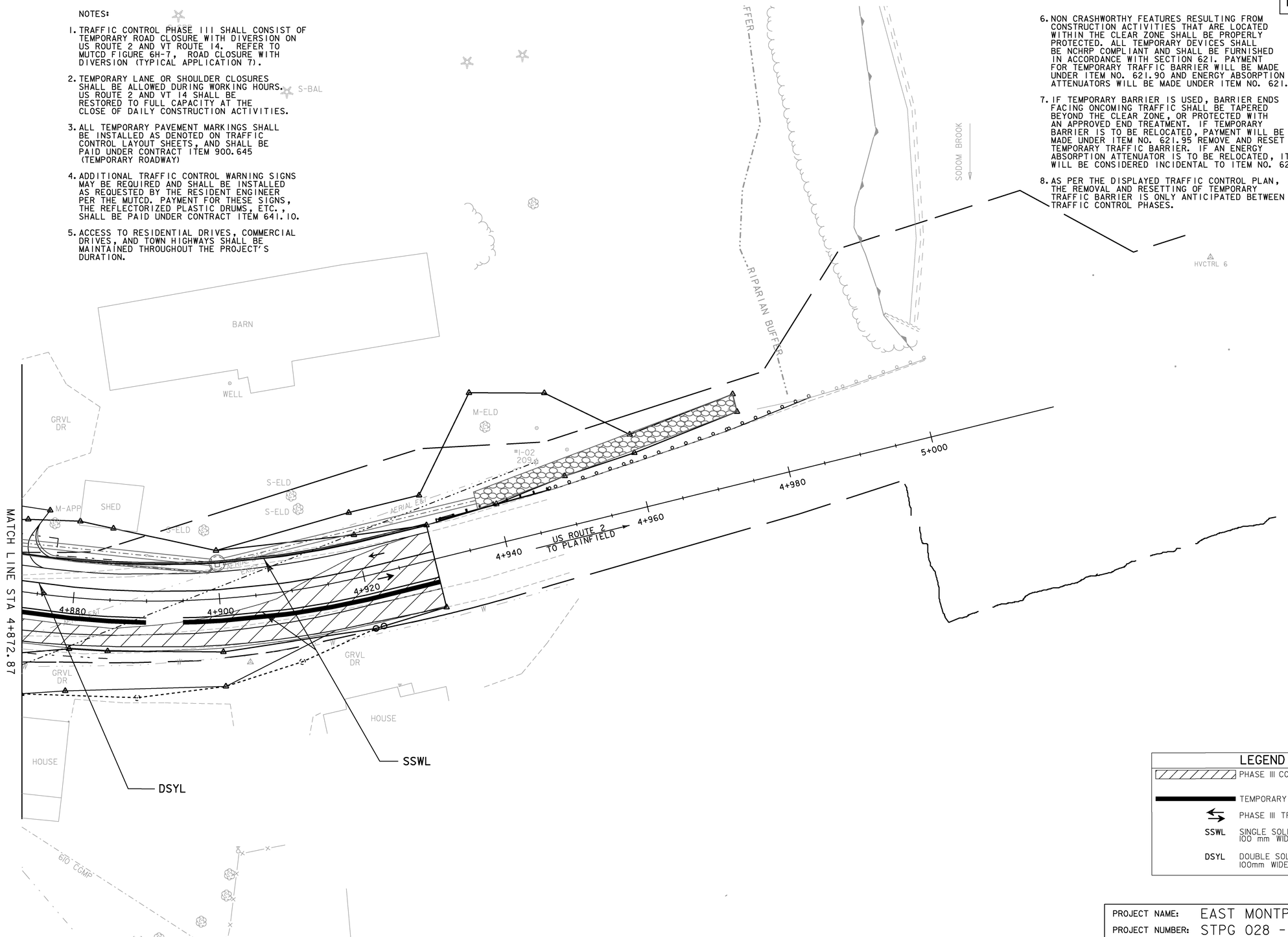
8. AS PER THE DISPLAYED TRAFFIC CONTROL PLAN, THE REMOVAL AND RESETTING OF TEMPORARY TRAFFIC BARRIER IS ONLY ANTICIPATED BETWEEN TRAFFIC CONTROL PHASES.

N

VT STATE PLANE GRID



LEGEND

	PHASE III CONSTRUCTION
	TEMPORARY TRAFFIC BARRIER
	PHASE III TRAFFIC
SSWL	SINGLE SOLID WHITE LINE 100 mm WIDE (PAINT)
DSYL	DOUBLE SOLID YELLOW LINE 100mm WIDE (PAINT)

0 10 20 30

SCALE IN METERS

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028tcp3bdr.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
TC PHASE 3 LAYOUT SHEET 3

PLOT DATE: 29-MAR-2010
DRAWN BY: I. DEGUTIS
CHECKED BY: J. DEVLIN
SHEET 97 OF 142

N

VT STATE PLANE GRID

NOTES:

1. TRAFFIC CONTROL PHASE III SHALL CONSIST OF TEMPORARY ROAD CLOSURE WITH DIVERSION ON US ROUTE 2 AND VT ROUTE 14. REFER TO MUTCD FIGURE 6H-7, ROAD CLOSURE WITH DIVERSION (TYPICAL APPLICATION 7).

2. TEMPORARY LANE OR SHOULDER CLOSURES SHALL BE ALLOWED DURING WORKING HOURS. US ROUTE 2 AND VT 14 SHALL BE RESTORED TO FULL CAPACITY AT THE CLOSE OF DAILY CONSTRUCTION ACTIVITIES.

3. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE INSTALLED AS DENOTED ON TRAFFIC CONTROL LAYOUT SHEETS, AND SHALL BE PAID UNDER CONTRACT ITEM 900.645 (TEMPORARY ROADWAY)

4. ADDITIONAL TRAFFIC CONTROL WARNING SIGNS MAY BE REQUIRED AND SHALL BE INSTALLED AS REQUESTED BY THE RESIDENT ENGINEER PER THE MUTCD. PAYMENT FOR THESE SIGNS, THE REFLECTORIZED PLASTIC DRUMS, ETC., SHALL BE PAID UNDER CONTRACT ITEM 641.10.

5. ACCESS TO RESIDENTIAL DRIVES, COMMERCIAL DRIVES, AND TOWN HIGHWAYS SHALL BE MAINTAINED THROUGHOUT THE PROJECT'S DURATION.

6. NON CRASHWORTHY FEATURES RESULTING FROM CONSTRUCTION ACTIVITIES THAT ARE LOCATED WITHIN THE CLEAR ZONE SHALL BE PROPERLY PROTECTED. ALL TEMPORARY DEVICES SHALL BE NCHRP COMPLIANT AND SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 621. PAYMENT FOR TEMPORARY TRAFFIC BARRIER WILL BE MADE UNDER ITEM NO. 621.90 AND ENERGY ABSORPTION ATTENUATORS WILL BE MADE UNDER ITEM NO. 621.56.

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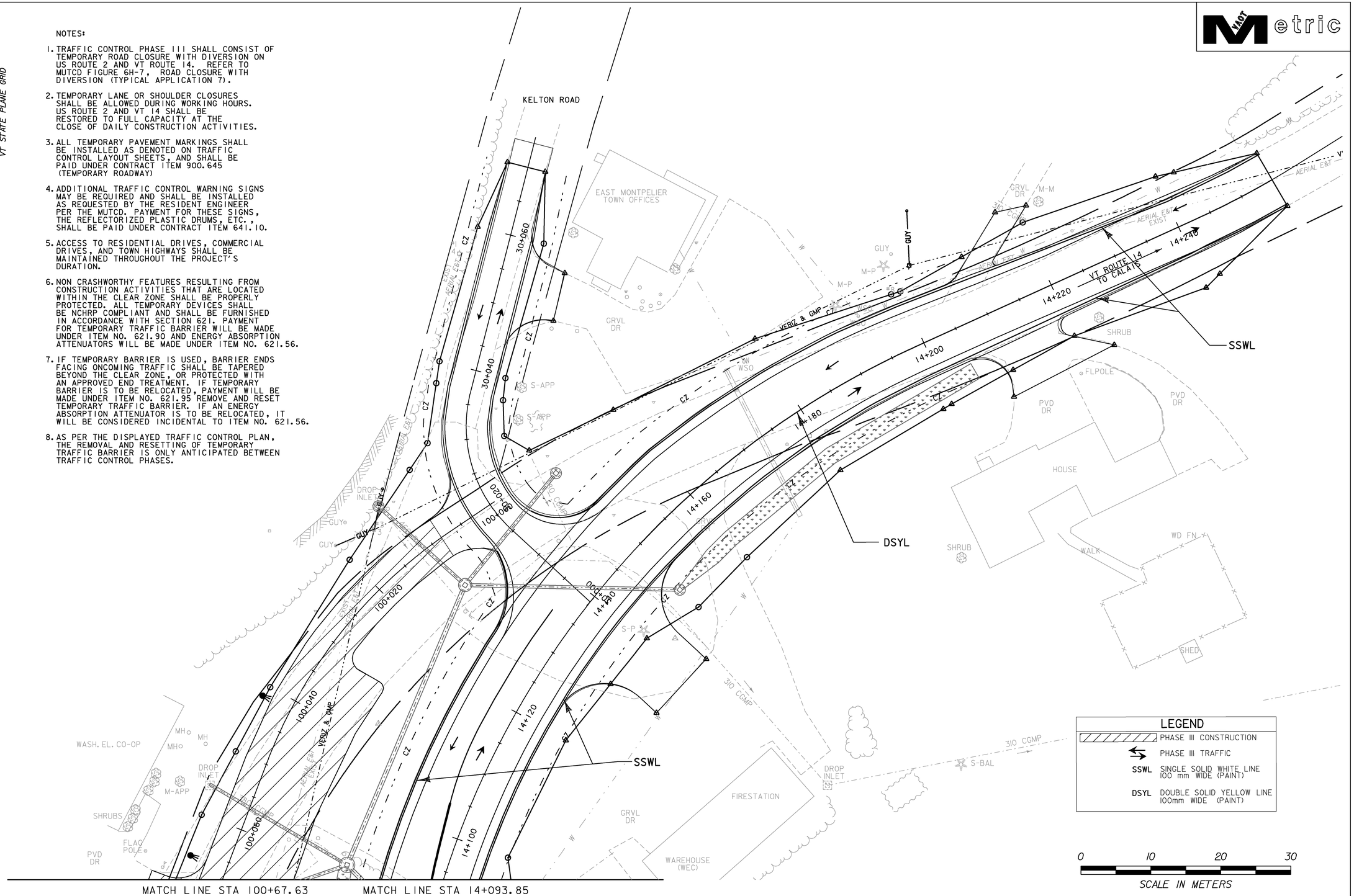
8. AS PER THE DISPLAYED TRAFFIC CONTROL PLAN, THE REMOVAL AND RESETTING OF TEMPORARY TRAFFIC BARRIER IS ONLY ANTICIPATED BETWEEN TRAFFIC CONTROL PHASES.



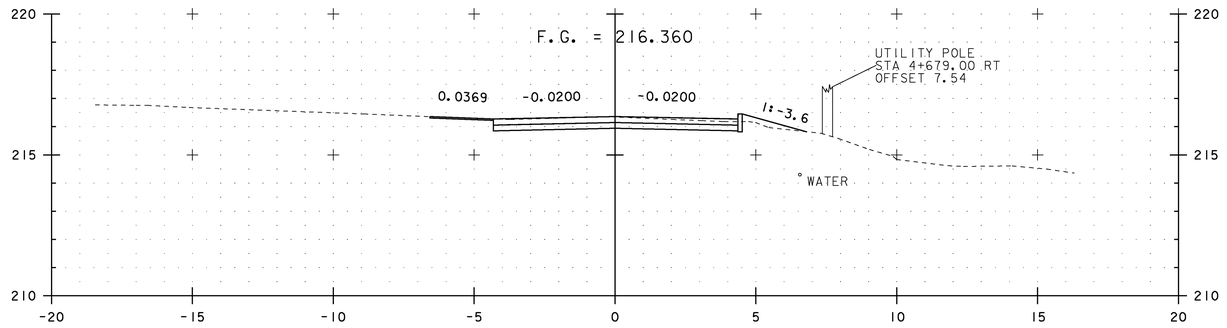
LEGEND	
	PHASE III CONSTRUCTION
	PHASE III TRAFFIC
SSWL	SINGLE SOLID WHITE LINE 100 mm WIDE (PAINT)
DSYL	DOUBLE SOLID YELLOW LINE 100mm WIDE (PAINT)

0 10 20 30

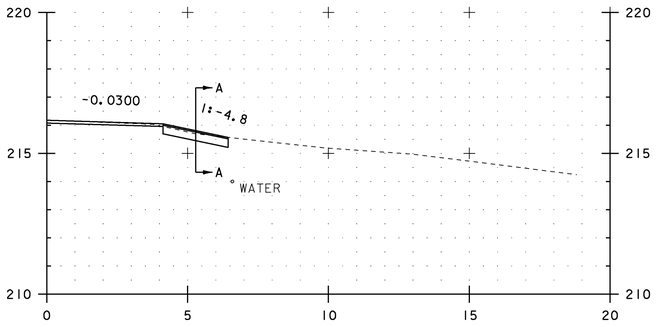
SCALE IN METERS

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S

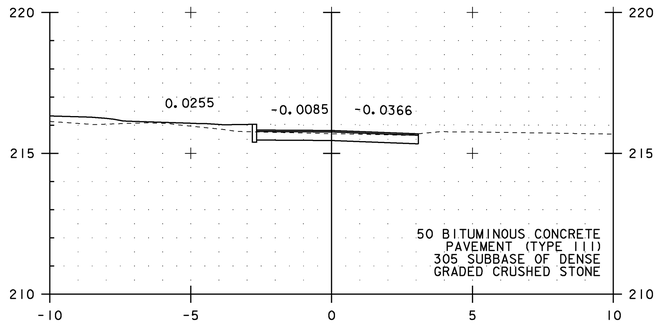
FILE NAME: t98b028tcp3bdr.dgn	PLOT DATE: 29-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: I. DEGUTIS
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
TC PHASE 3 LAYOUT SHEET 4	SHEET 98 OF 142



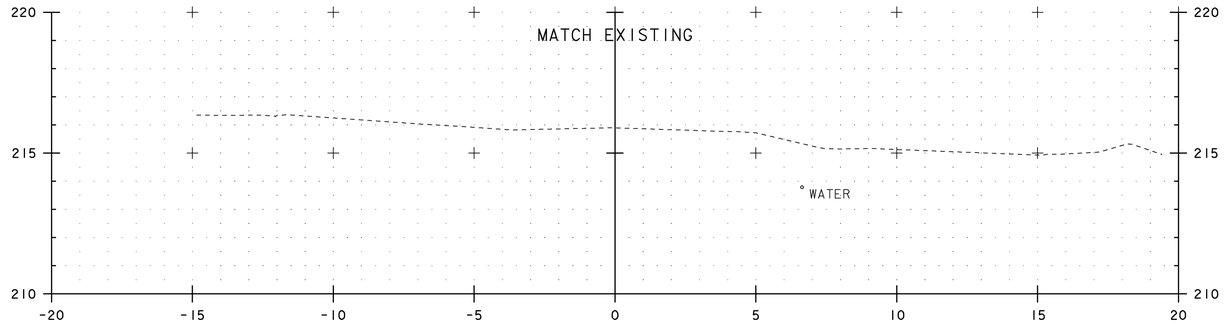
4+680.00



4+672.00
PAVED DRIVE RT



SECTION A-A



4+660.00
BEGIN APPROACH

NOTES:

1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

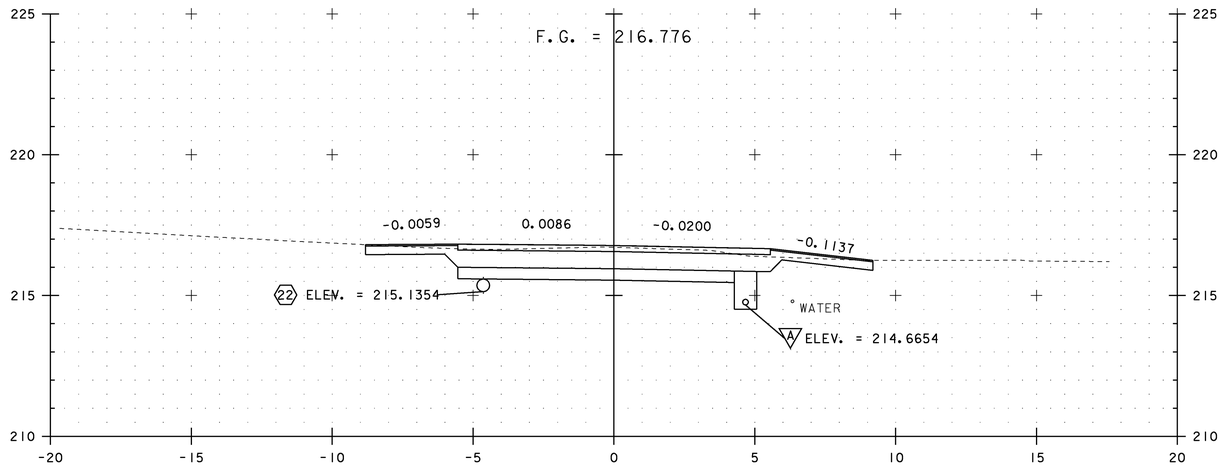
STA. 4+660 TO STA. 4+680

0 2 4 6 8 10
SCALE 1:100

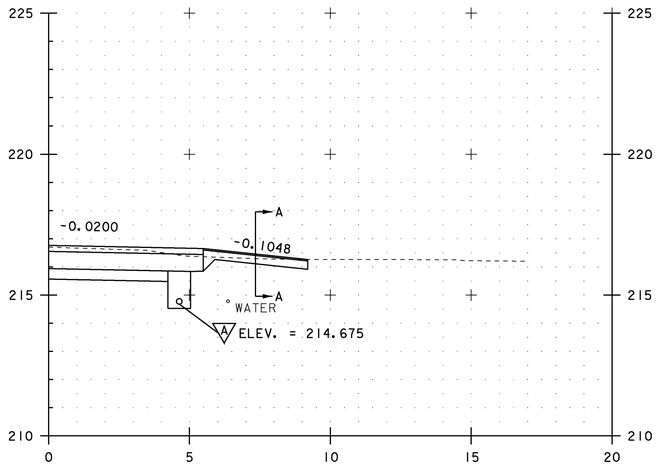
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
US ROUTE 2 CROSS SECTION SHEET 1

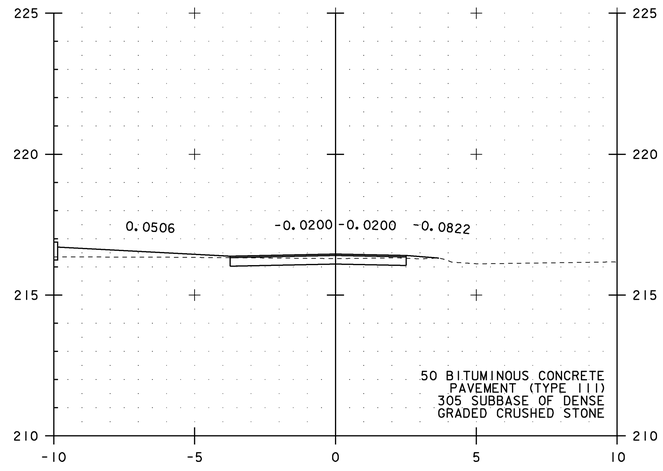
PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 99 OF 142



4+700.00



4+699.00
PAVED DRIVE RT



SECTION A-A

0 2 4 6 8 10
SCALE 1:100

NOTES:

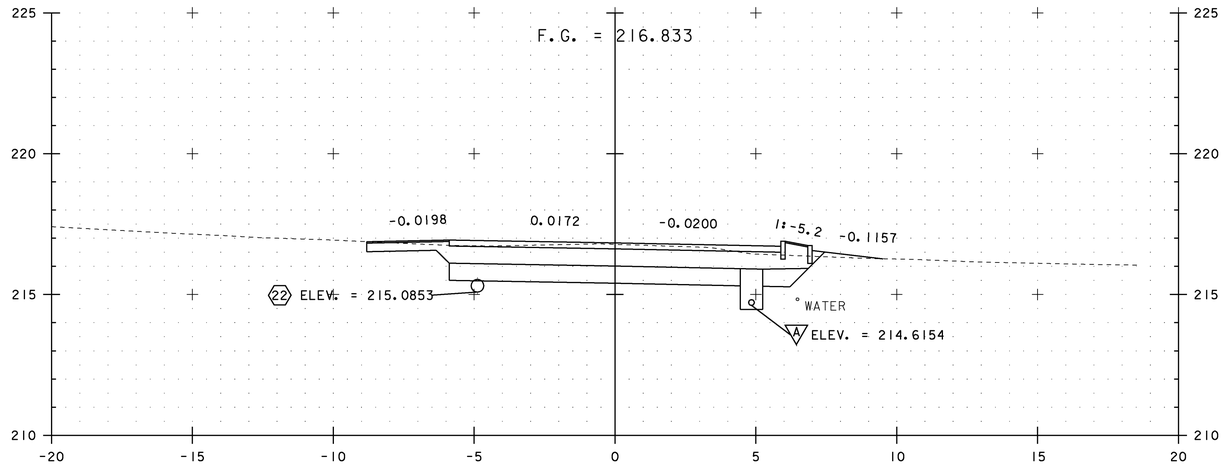
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 4+699 TO STA. 4+700

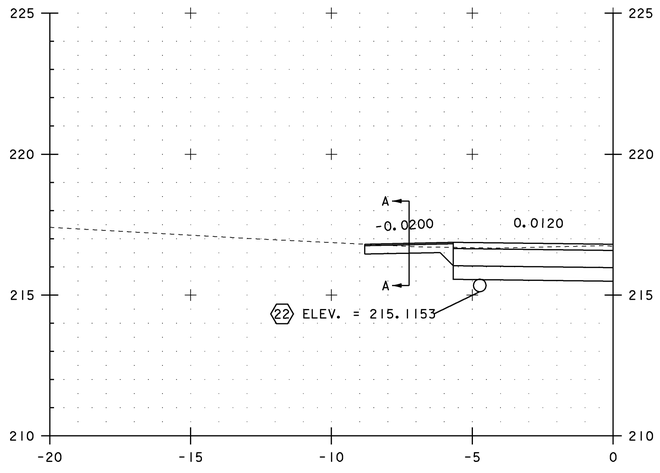
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
US ROUTE 2 CROSS SECTION SHEET 2

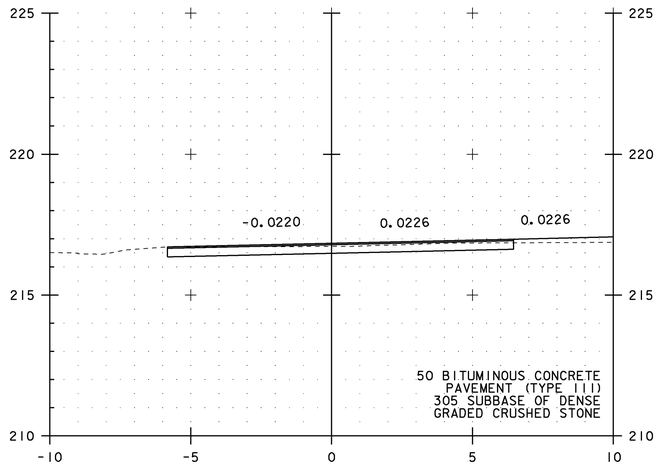
PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 100 OF 142



4+705.00
END APPROACH
BEGIN PROJECT



4+702.00
PAVED DRIVE LT



SECTION A-A

0 2 4 6 8 10
SCALE 1:100

NOTES:

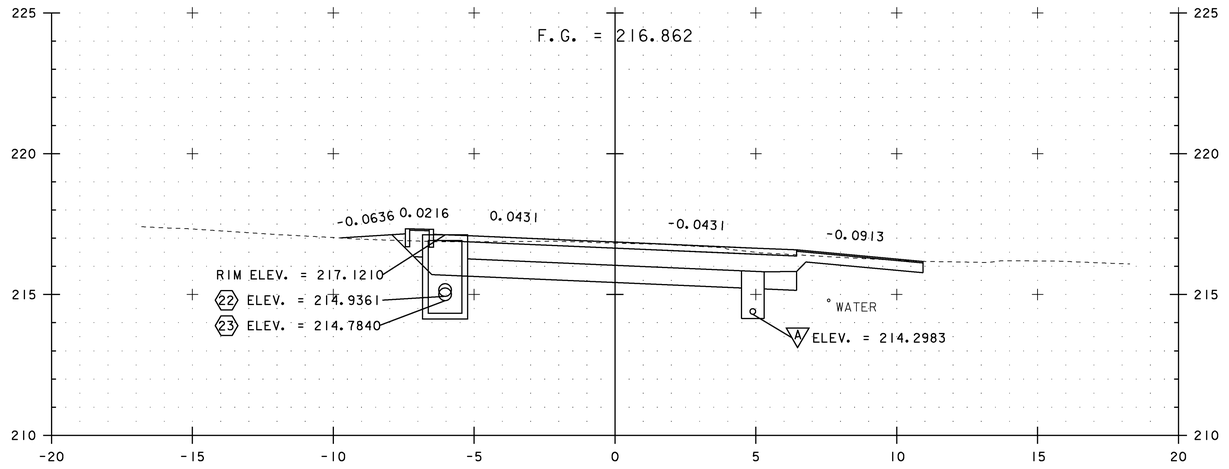
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 4+702 TO STA. 4+705

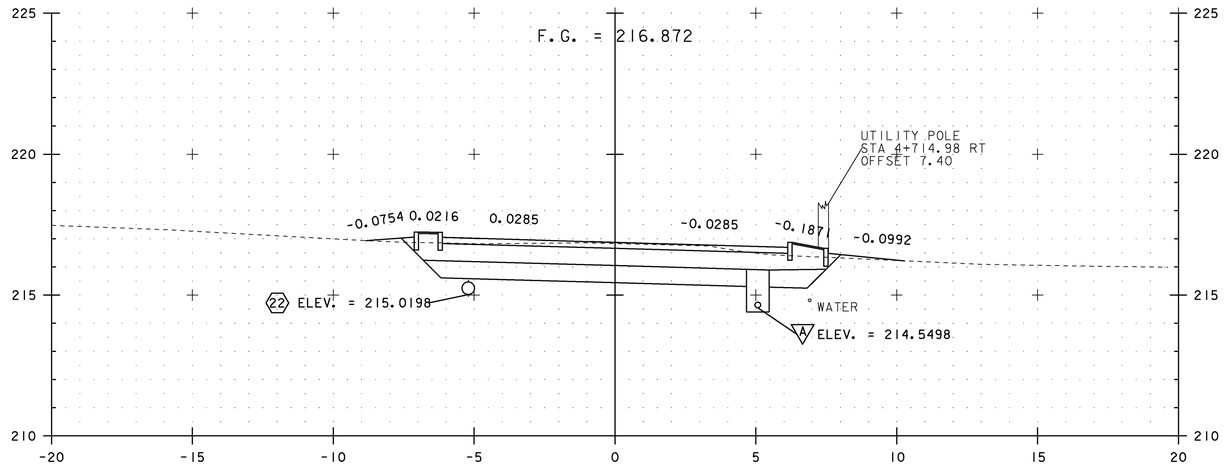
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
US ROUTE 2 CROSS SECTION SHEET 3

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 101 OF 142



4+720.00



PC 4+711.54

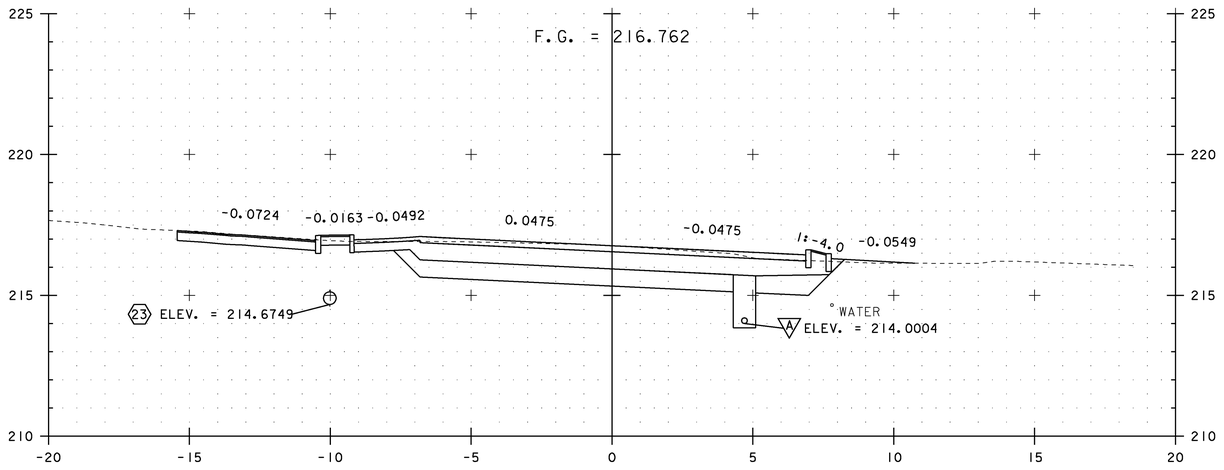
0 2 4 6 8 10
SCALE 1:100

NOTES:

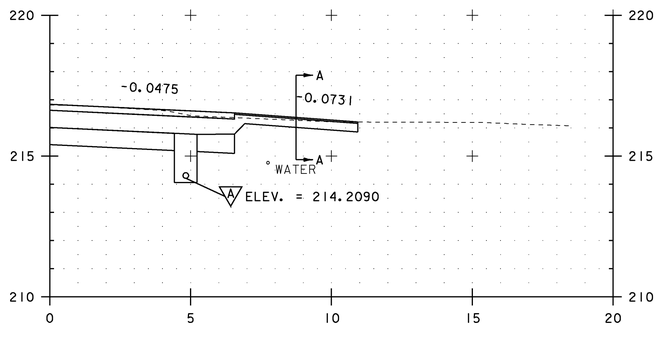
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 4+711.54 TO STA. 4+720

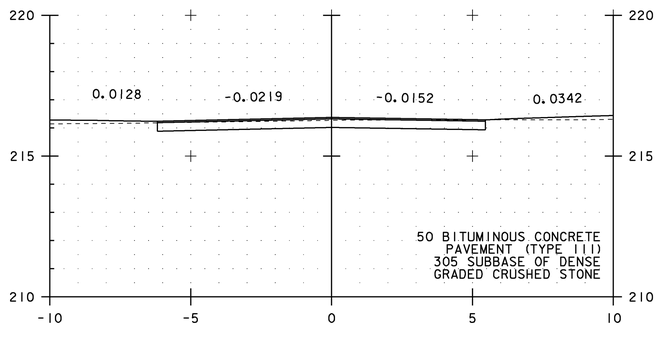
PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028xsl.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
US ROUTE 2 CROSS SECTION SHEET 4	SHEET 102 OF 142



4+730.00



4+723.00
PAVED DRIVE RT



SECTION A-A

0 2 4 6 8 10
SCALE 1:100

NOTES:

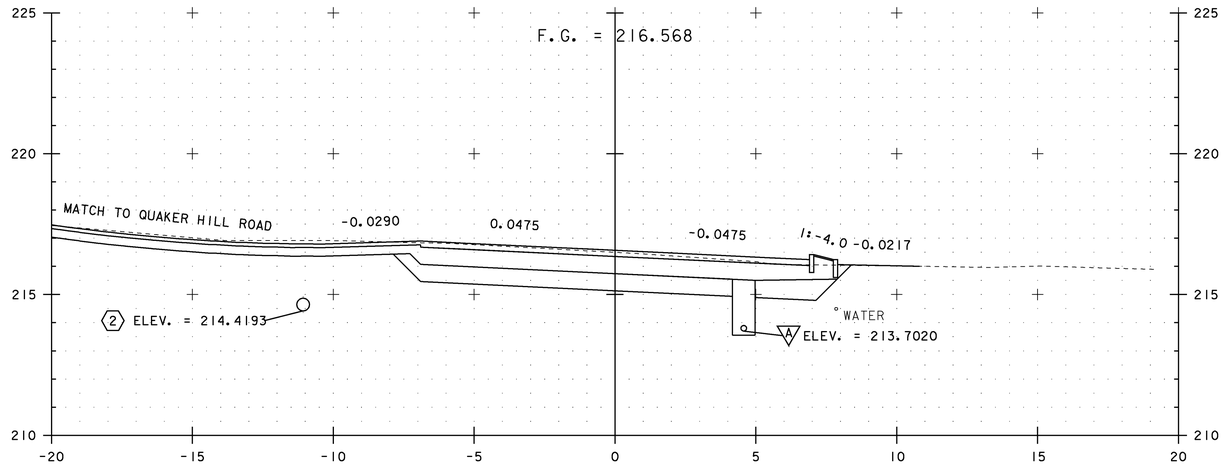
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 4+723 TO STA. 4+730

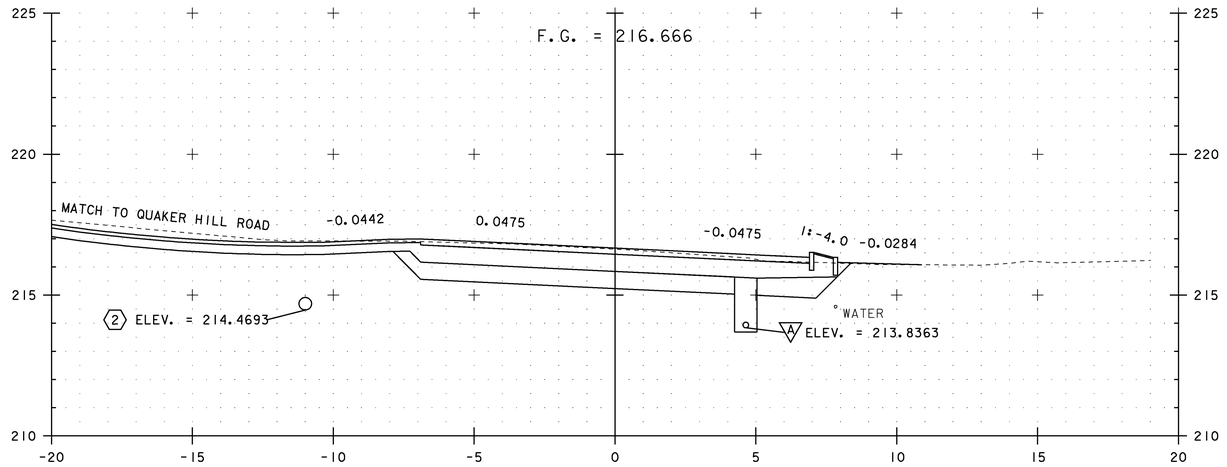
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
US ROUTE 2 CROSS SECTION SHEET 5

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 103 OF 142



4+740.00



4+735.50

0 2 4 6 8 10
SCALE 1:100

NOTES:

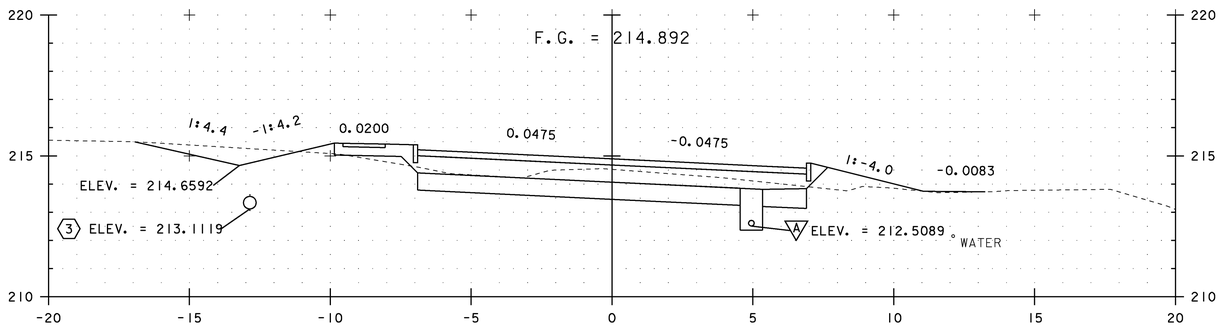
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 4+735.50 TO STA. 4+740

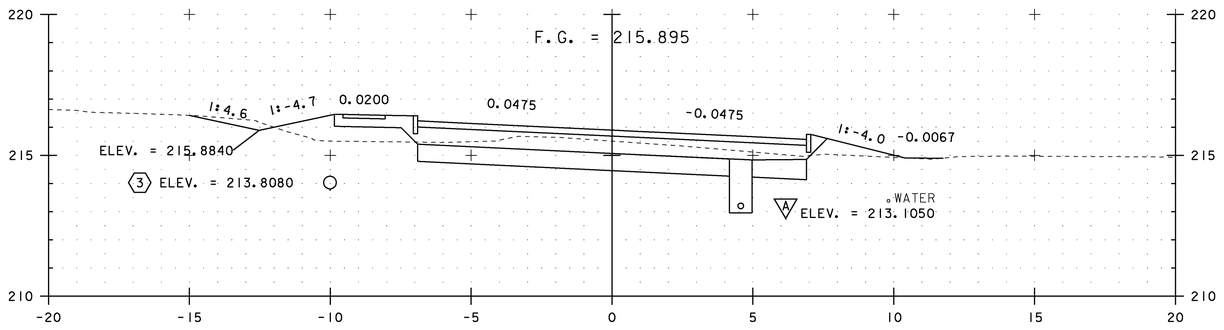
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
US ROUTE 2 CROSS SECTION SHEET 6

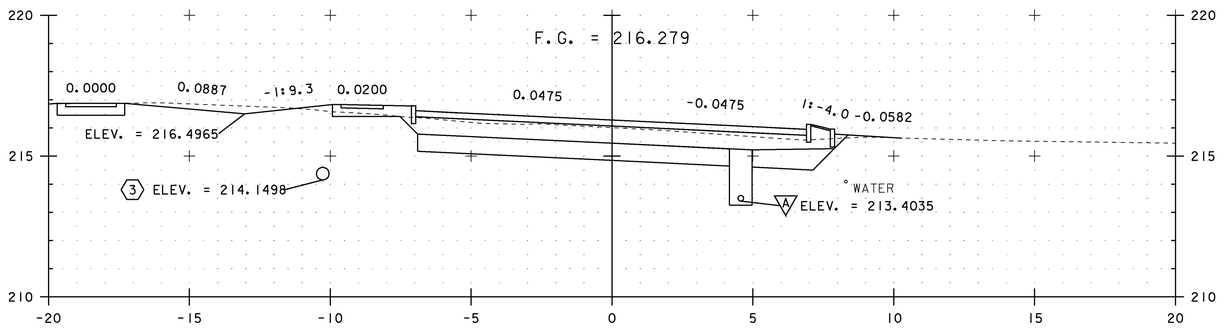
PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 104 OF 142



4+780.00



4+760.00



4+750.00

0 2 4 6 8 10
SCALE 1:100

NOTES:

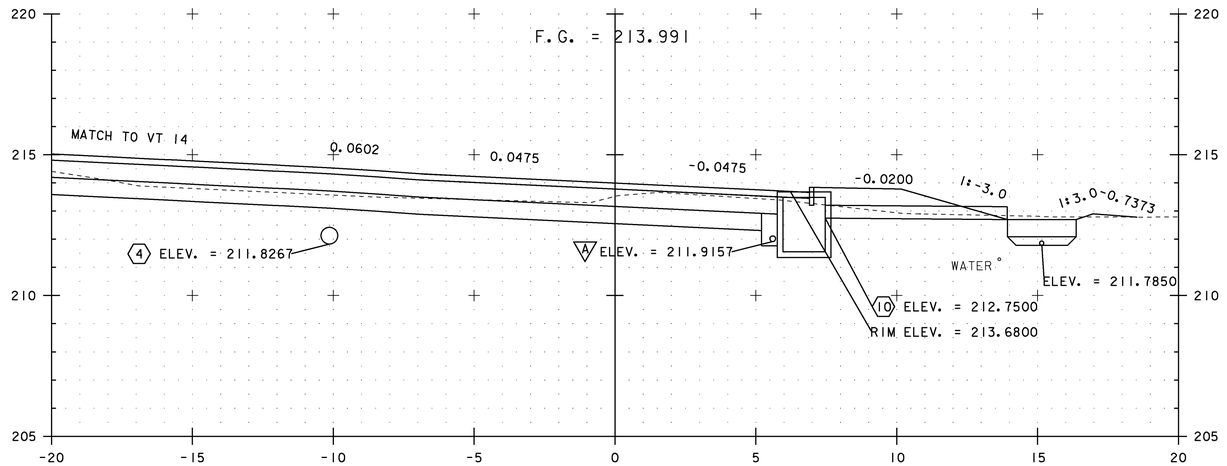
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 4+750 TO STA. 4+780

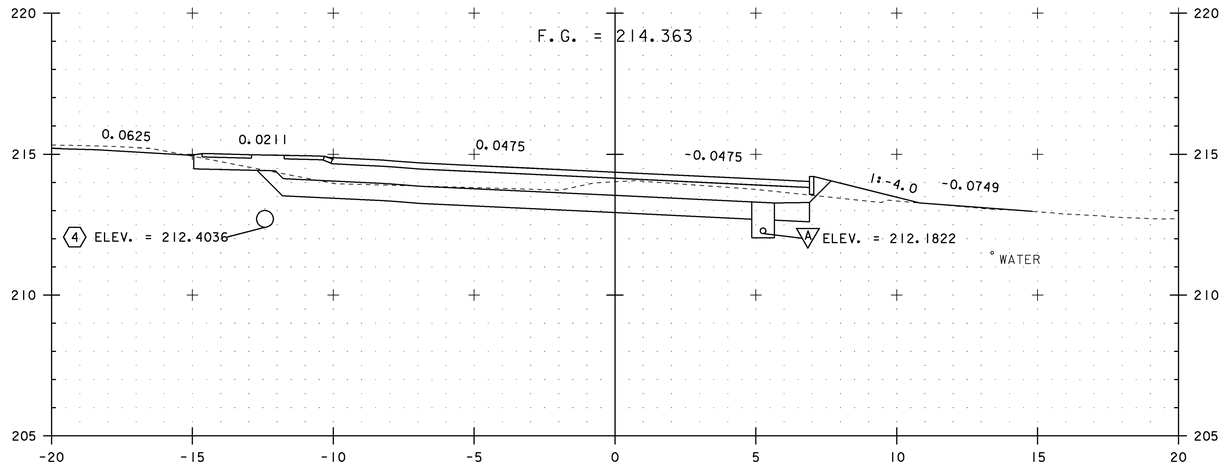
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
US ROUTE 2 CROSS SECTION SHEET 7

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 105 OF 142



4+800.00



4+791.00

0 2 4 6 8 10
SCALE 1:100

NOTES:

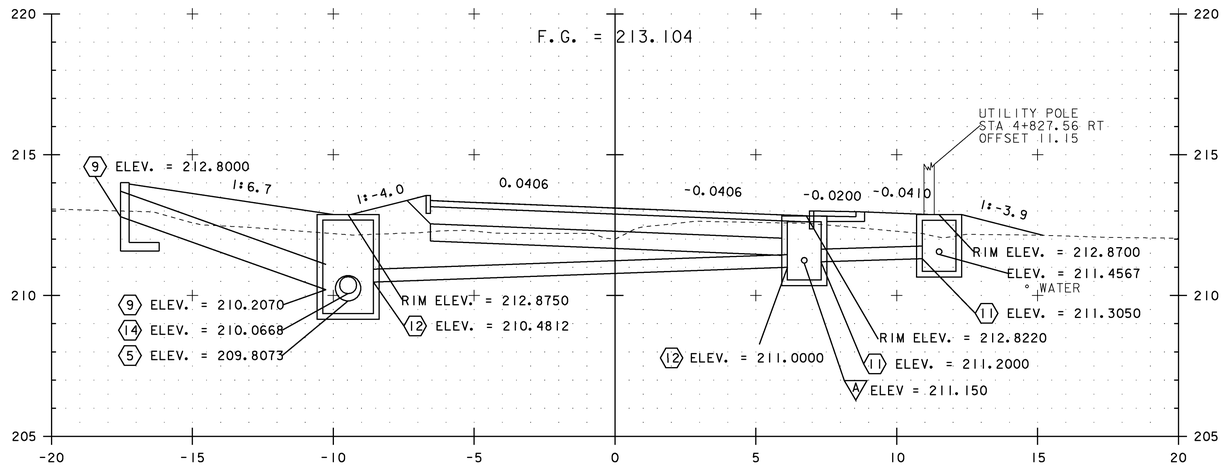
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 4+791 TO STA. 4+800

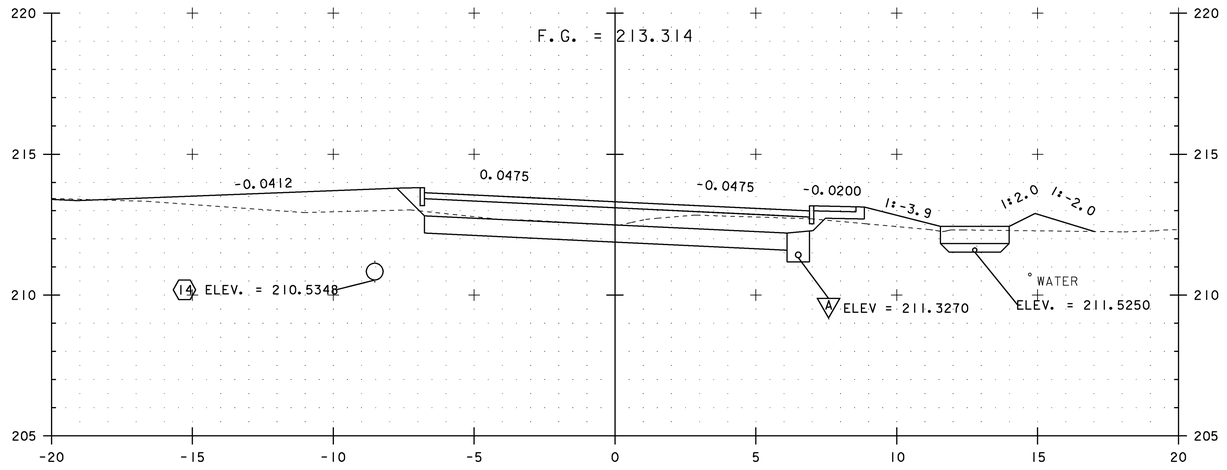
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
US ROUTE 2 CROSS SECTION SHEET 8

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 106 OF 142



4+826.00



4+820.00

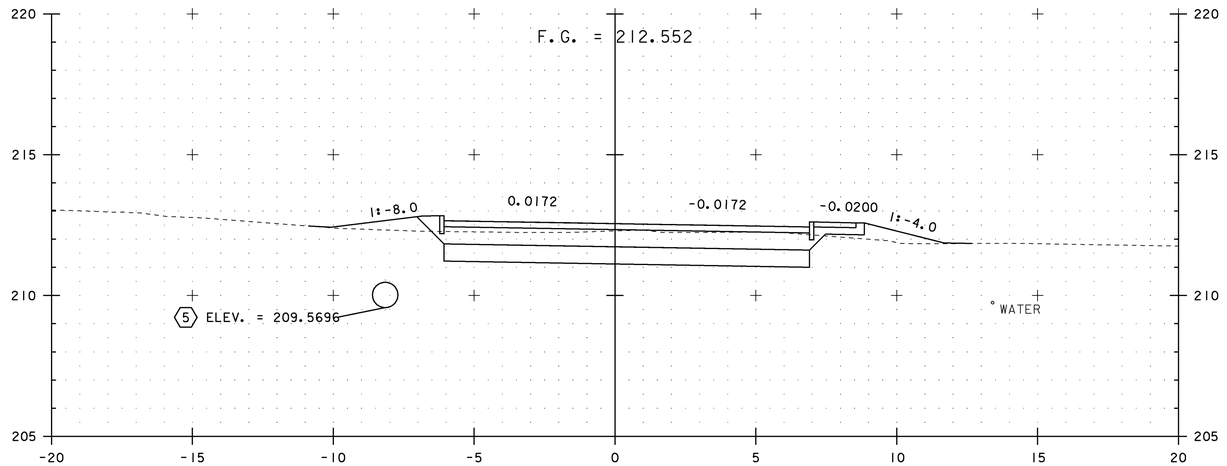
NOTES:

1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

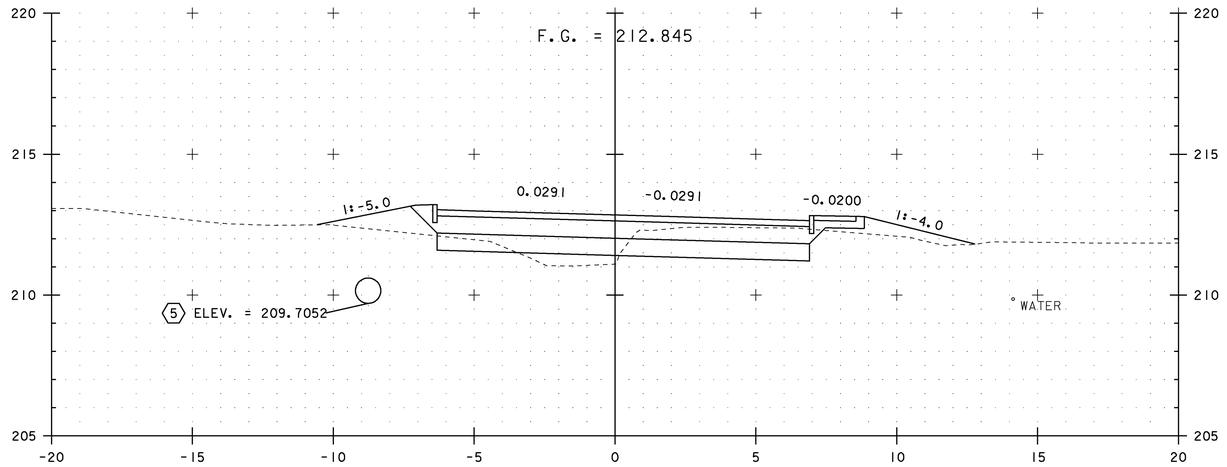
STA. 4+820 TO STA. 4+826

0 2 4 6 8 10
SCALE 1:100

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028xsl.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
US ROUTE 2 CROSS SECTION SHEET 9	SHEET 107 OF 142



4+840.00



PT 4+832.86

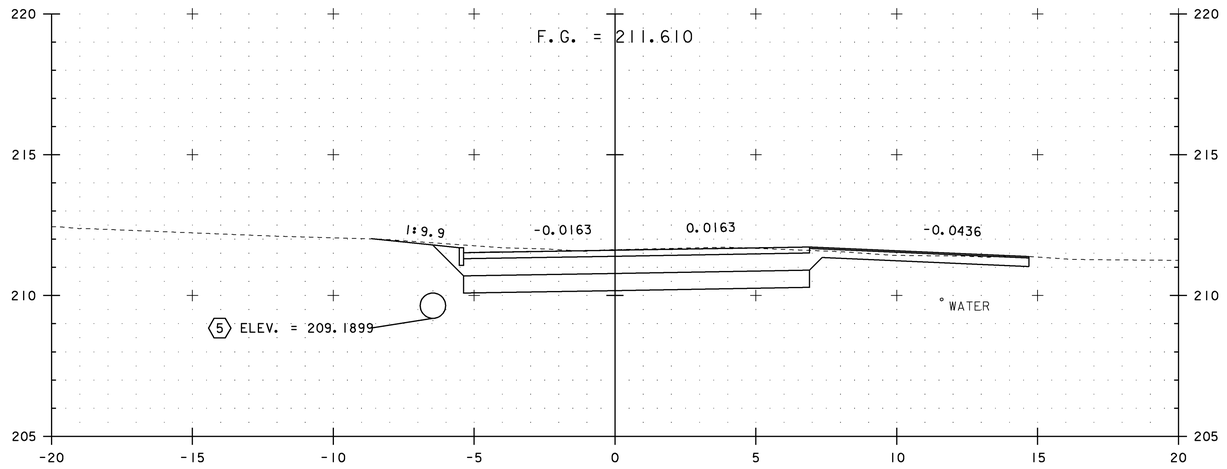
0 2 4 6 8 10
SCALE 1:100

NOTES:

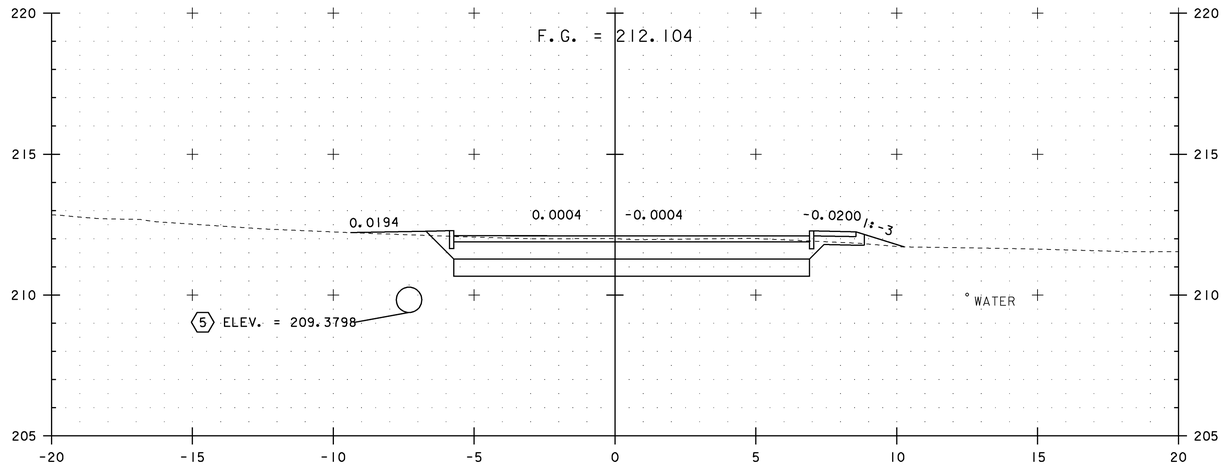
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 4+832.86 TO STA. 4+840

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028xsl.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
US ROUTE 2 CROSS SECTION SHEET 10	SHEET 108 OF 142



4+860.00



4+850.00

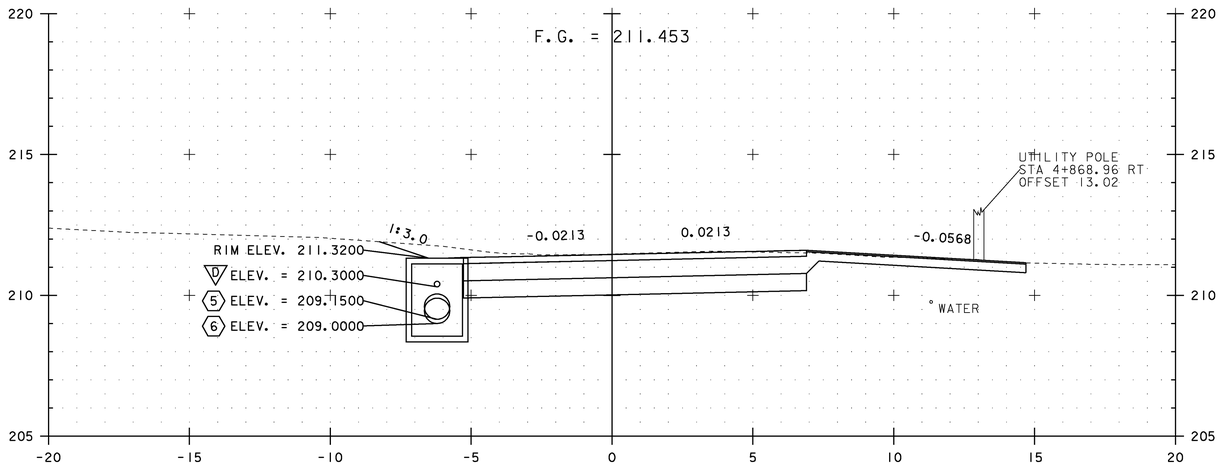
0 2 4 6 8 10
SCALE 1:100

NOTES:

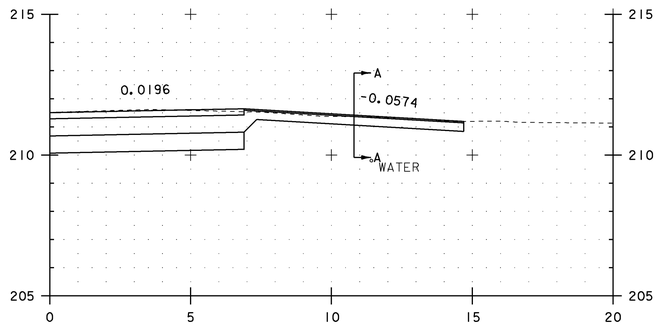
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 4+850 TO STA. 4+860

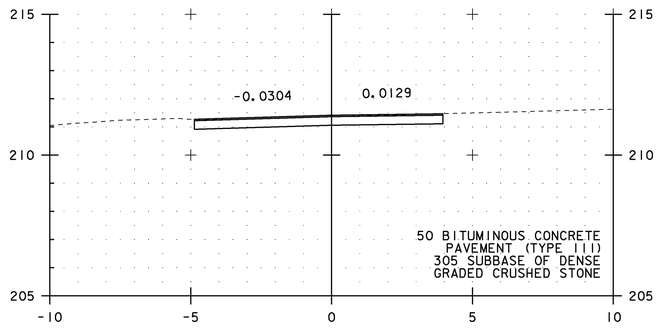
PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028xsl.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
US ROUTE 2 CROSS SECTION SHEET II	SHEET 109 OF 142



4+863.00



4+862.00
PAVED DRIVE RT



SECTION A-A

0 2 4 6 8 10
SCALE 1:100

NOTES:

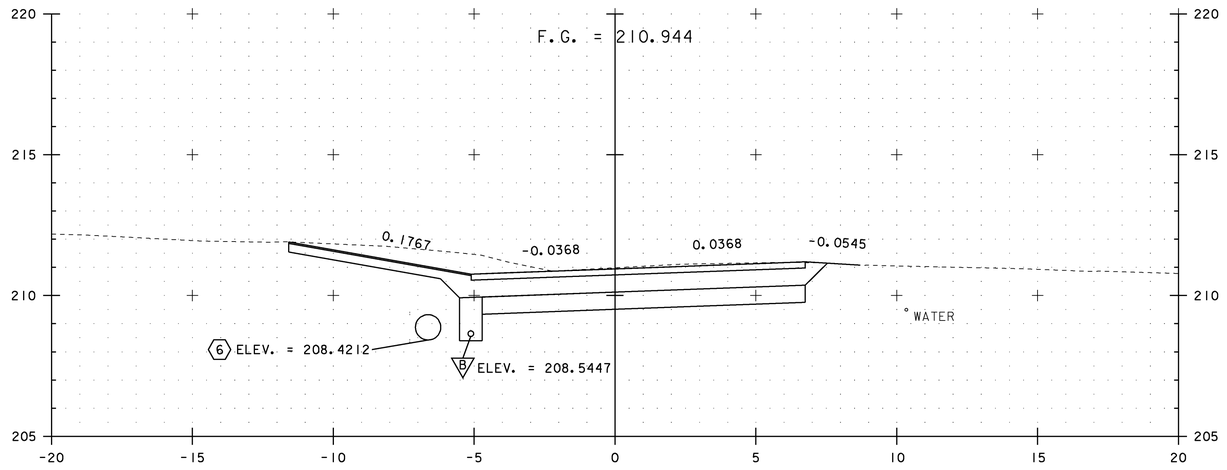
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 4+862 TO STA. 4+863

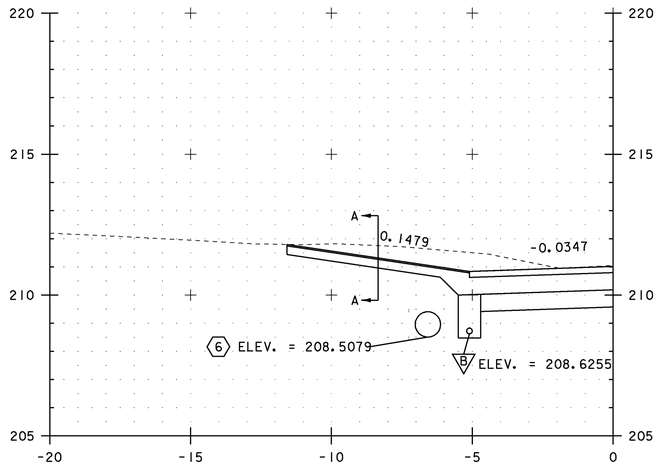
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
US ROUTE 2 CROSS SECTION SHEET 12

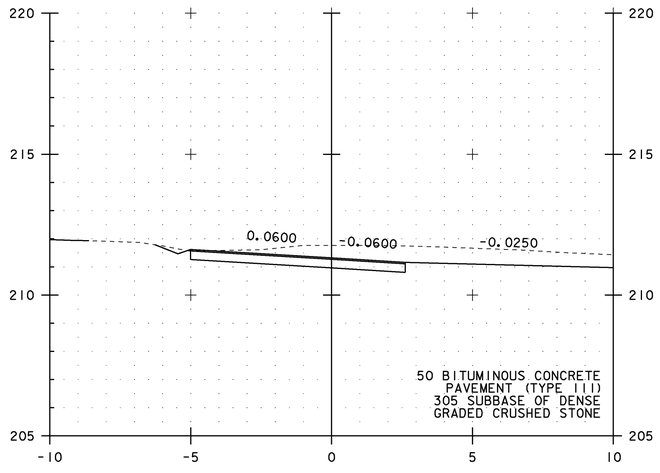
PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 110 OF 142



PC 4+872.25



4+871.00
PAVED DRIVE LT



SECTION A-A

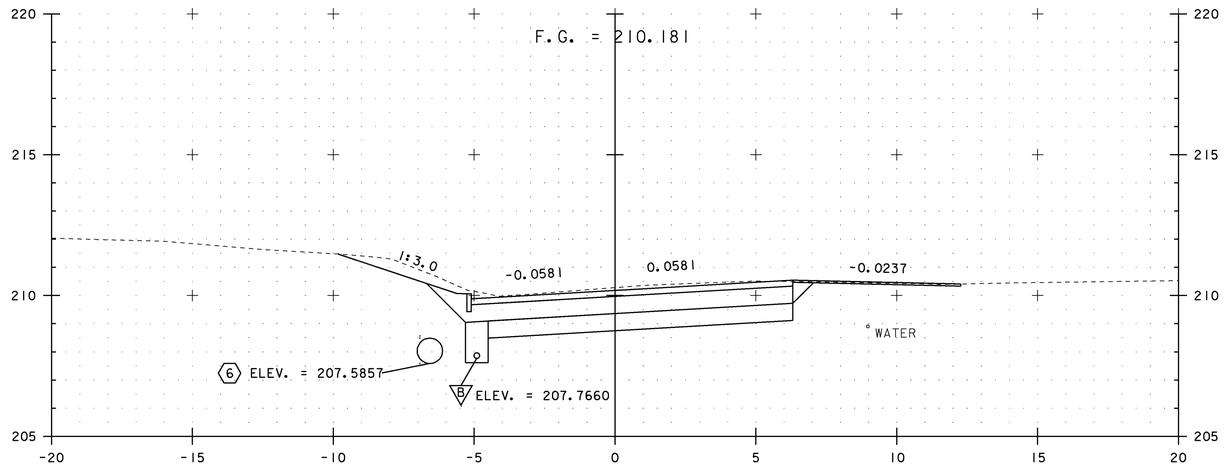
0 2 4 6 8 10
SCALE 1:100

NOTES:

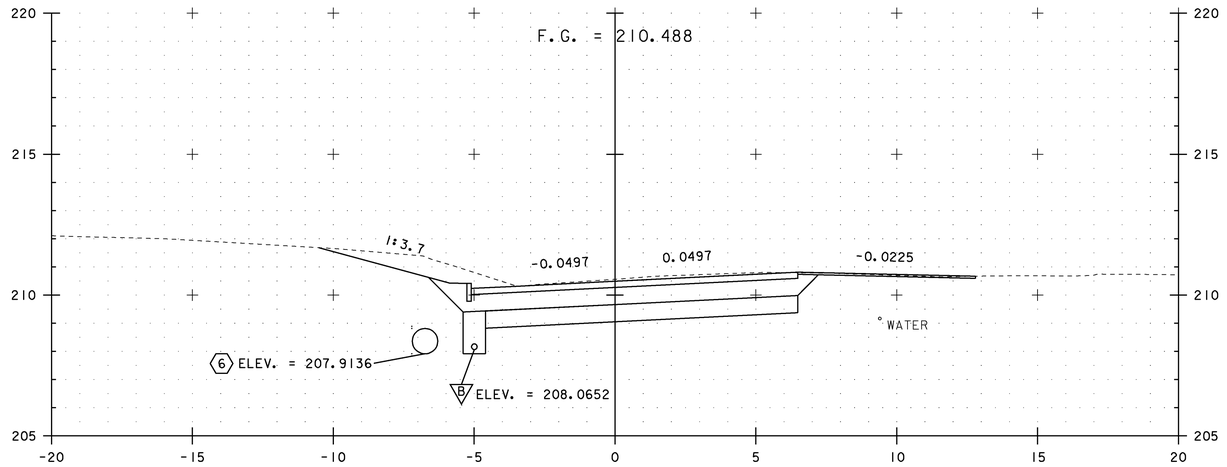
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 4+871 TO STA. 4+872.25

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028xsl.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
US ROUTE 2 CROSS SECTION SHEET 13	SHEET III OF 142



4+885.00
END PROJECT
BEGIN APPROACH



4+880.00

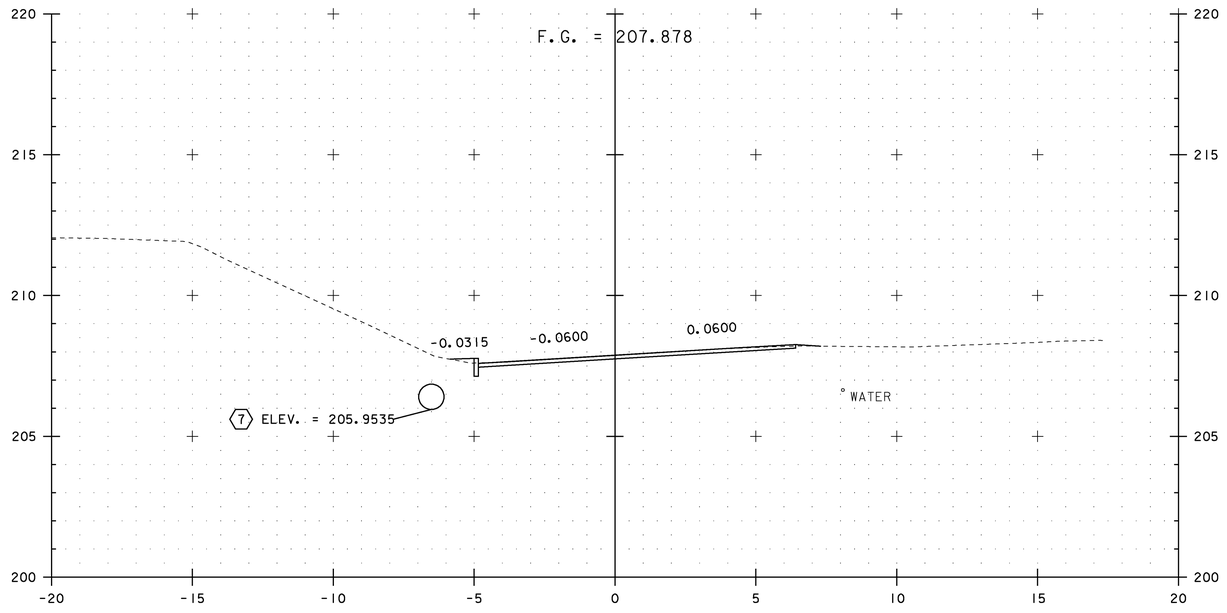
NOTES:

1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

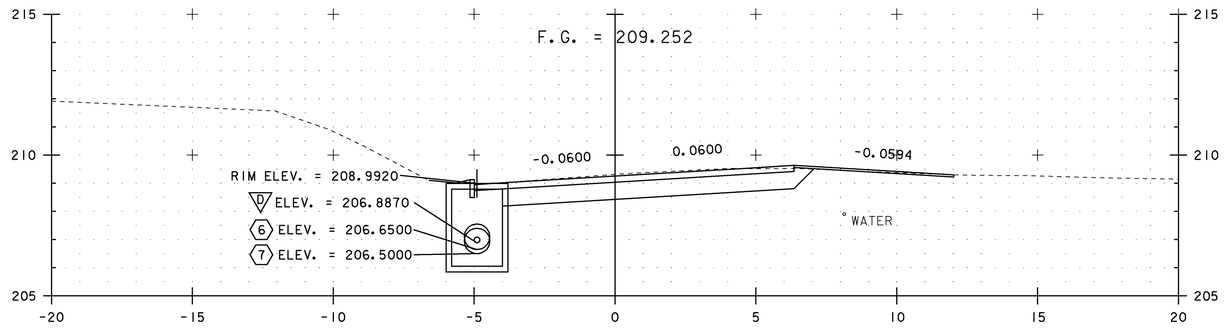
STA. 4+880 TO STA. 4+885

0 2 4 6 8 10
SCALE 1:100

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028xsl.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
US ROUTE 2 CROSS SECTION SHEET 14	SHEET 112 OF 142



4+920.00



4+900.00

0 2 4 6 8 10
SCALE 1:100

NOTES:

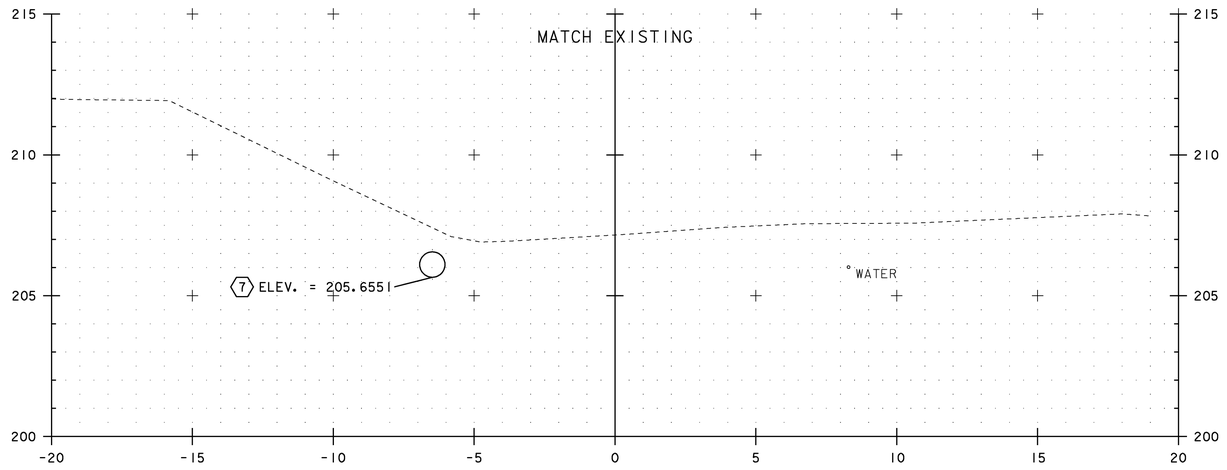
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 4+900 TO STA. 4+920

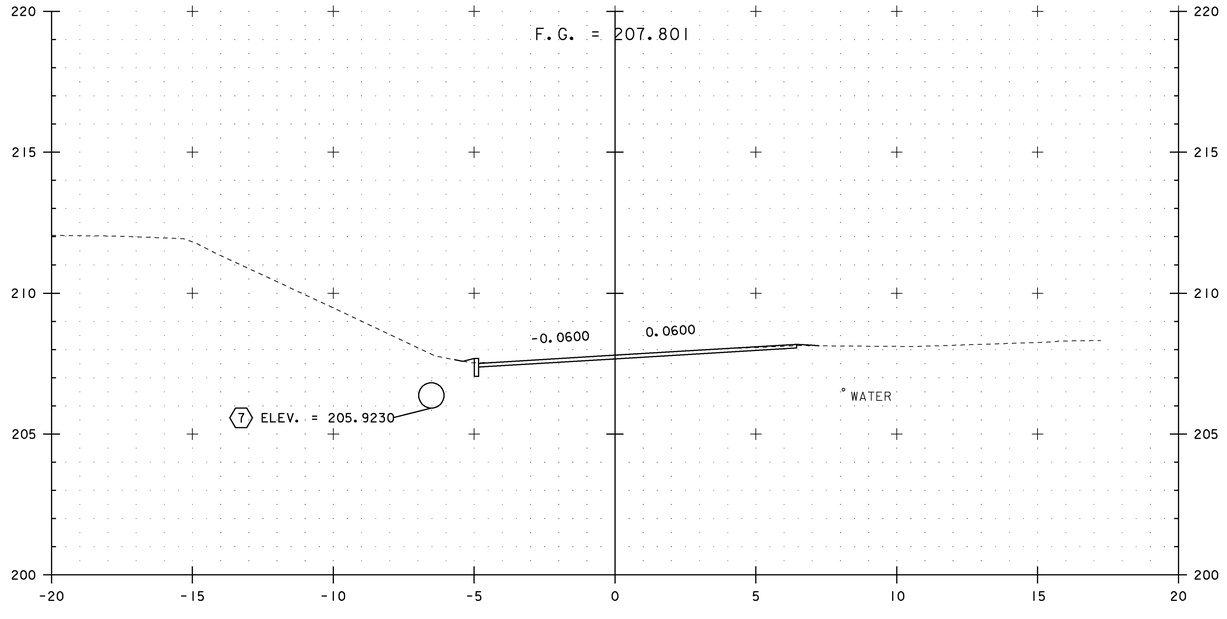
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
US ROUTE 2 CROSS SECTION SHEET 15

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 113 OF 142



4+930.00
END APPROACH



PT 4+921.07

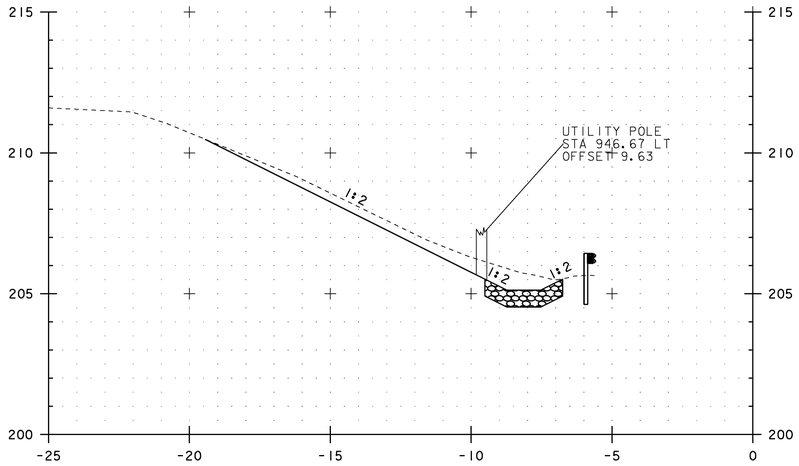
0 2 4 6 8 10
SCALE 1:100

NOTES:

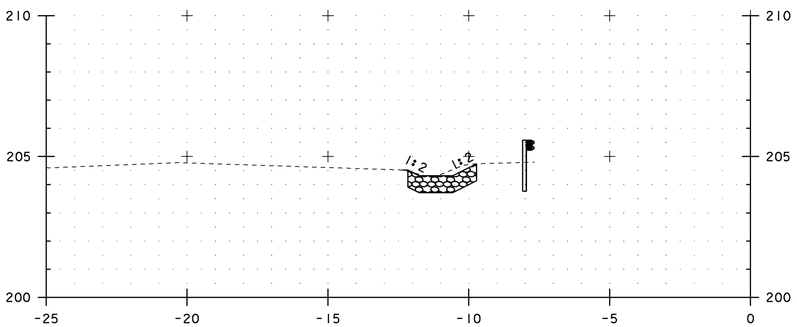
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 4+921.07 TO STA. 4+930

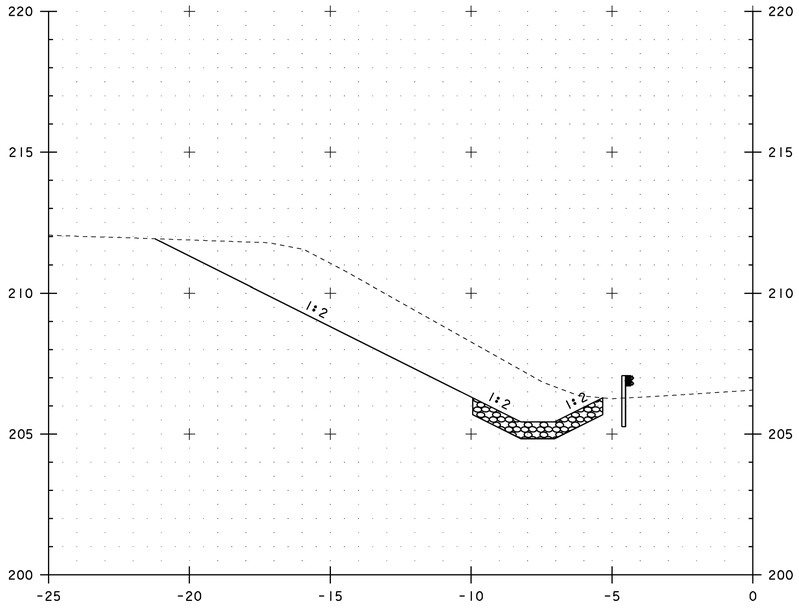
PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028xsl.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
US ROUTE 2 CROSS SECTION SHEET 16	SHEET 114 OF 142



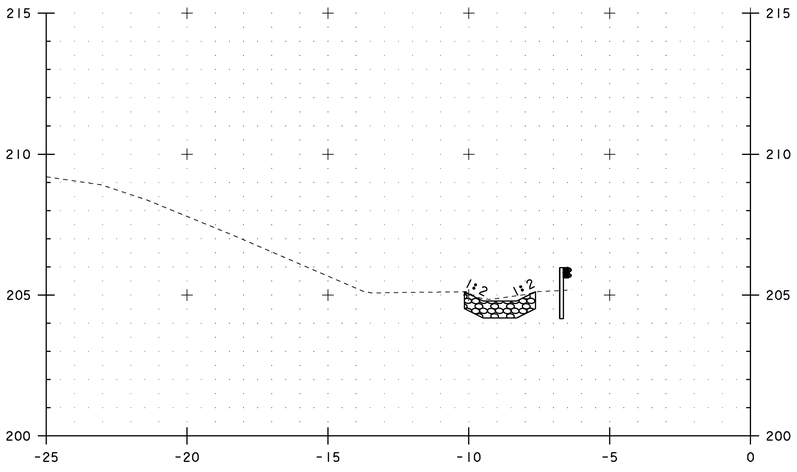
4+950.00



4+975.00



4+940.00



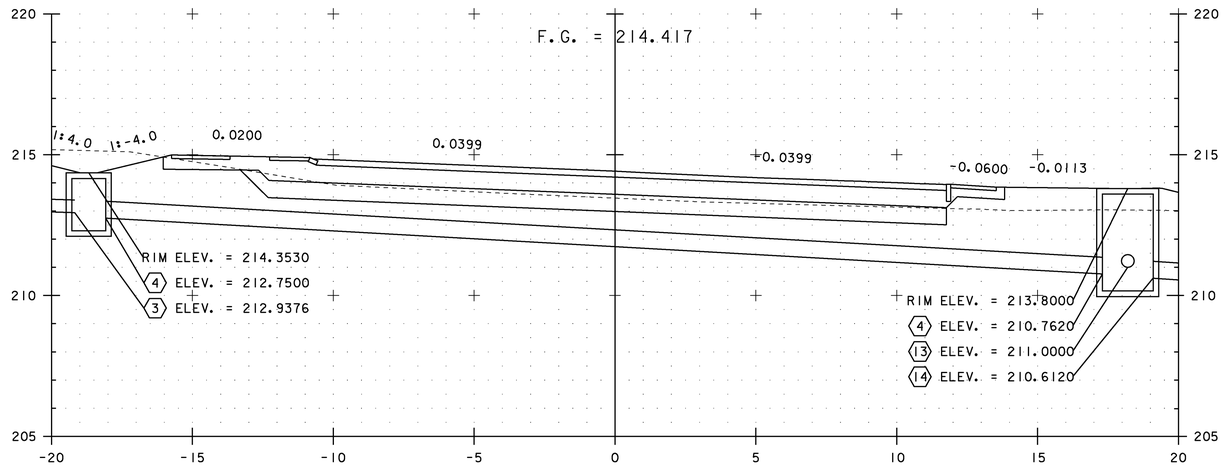
4+960.00

NOTES:

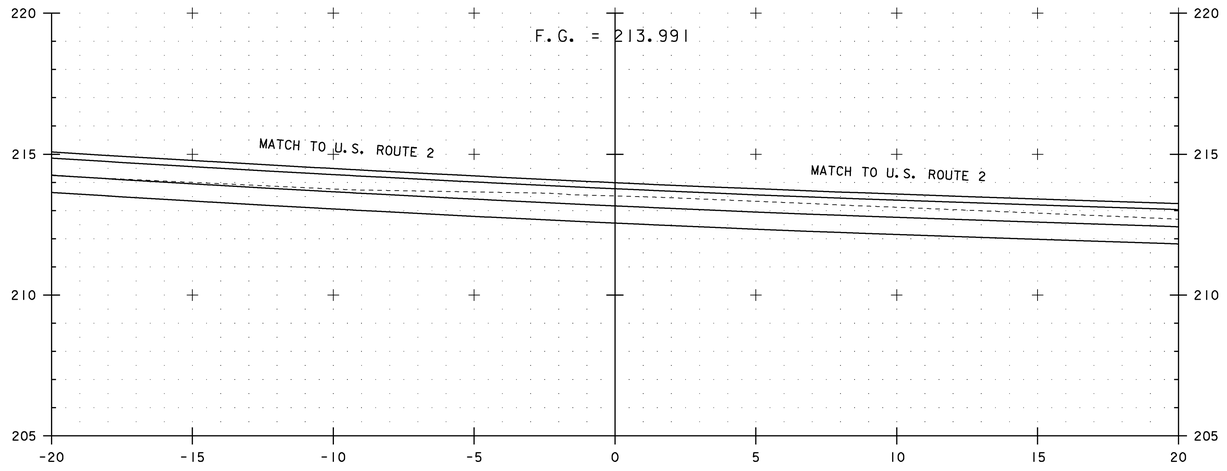
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 4+940 TO STA. 4+975

PROJECT NAME: EAST MONTPELIER	
PROJECT NUMBER: STPG 028 - 3(35)S	
FILE NAME: t98b028xsl.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
US ROUTE 2 CROSS SECTION SHEET 17	SHEET 115 OF 142



14+035.00



14+026.00 =
U.S. ROUTE 2 STA 4+800.00

0 2 4 6 8 10
SCALE 1:100

NOTES:

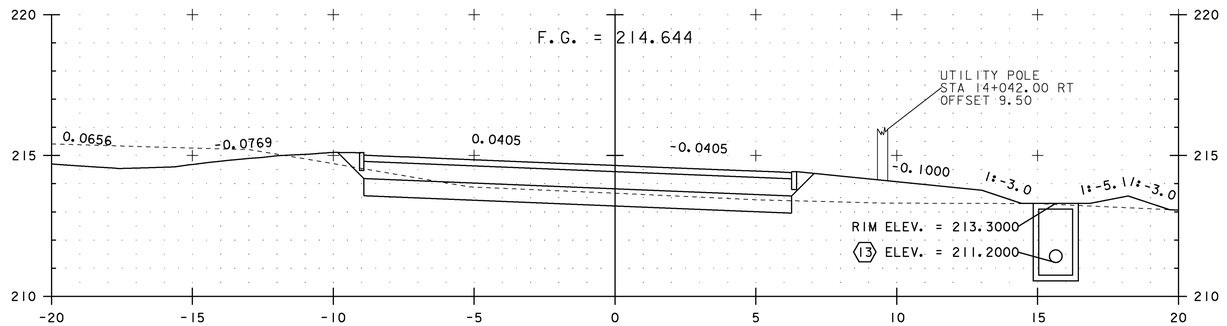
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 14+026 TO STA. 14+035

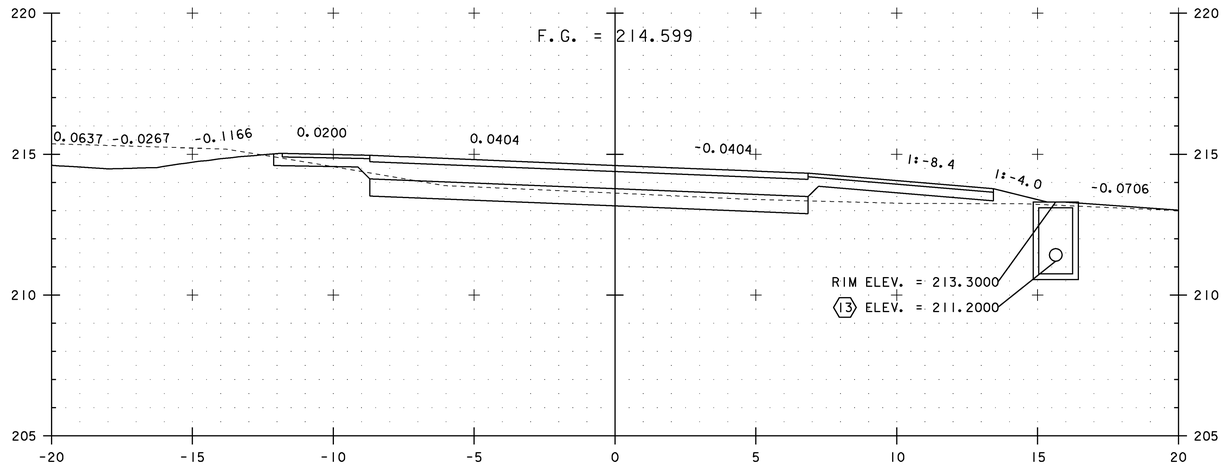
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
VT ROUTE 14 CROSS SECTION SHEET 1

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 116 OF 142



14+040.00



14+039.00

0 2 4 6 8 10
SCALE 1:100

NOTES:

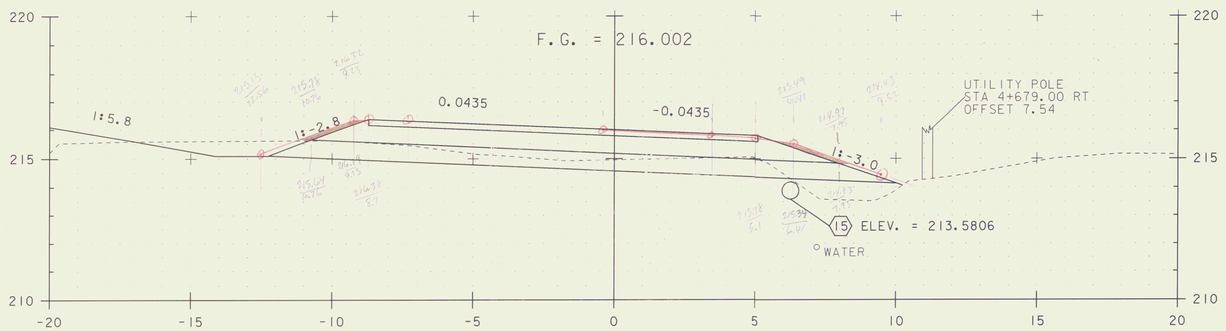
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 14+039 TO STA. 14+040

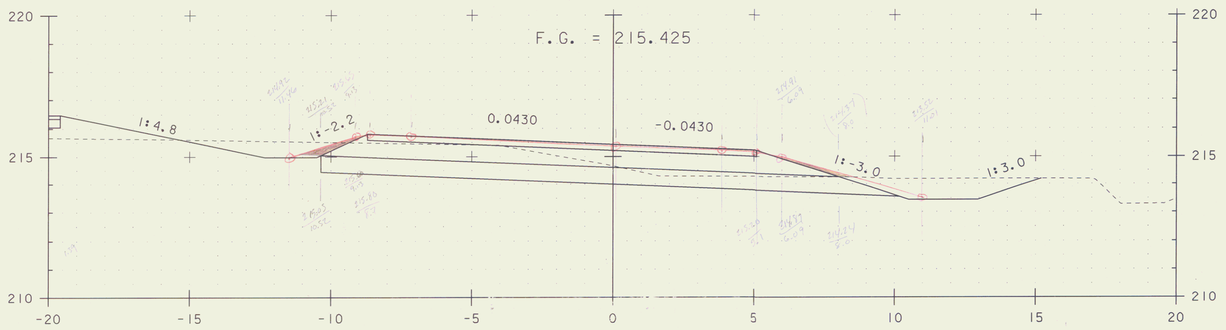
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
VT ROUTE 14 CROSS SECTION SHEET 2

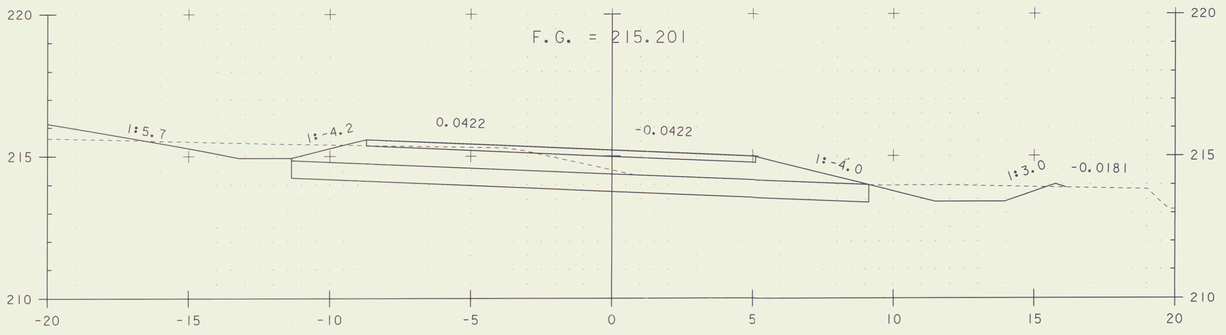
PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 117 OF 142



14+080.00



14+060.00



PC 14+053.70

0 2 4 6 8 10
SCALE 1:100

NOTES:

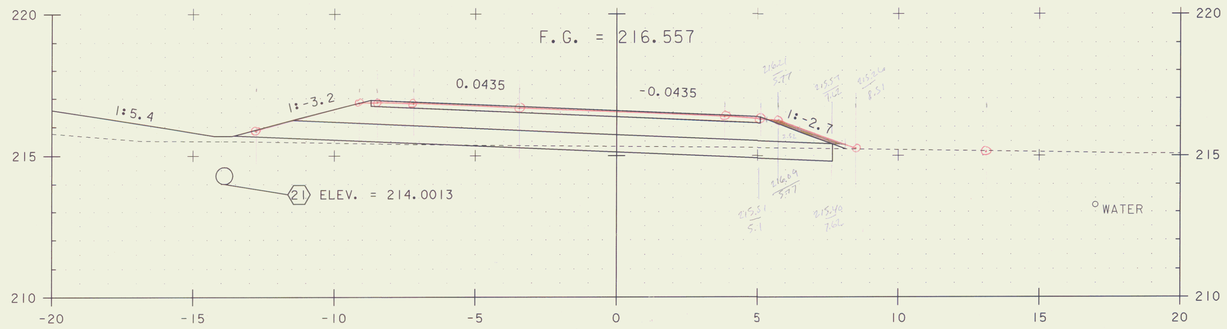
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 14+053.70 TO STA. 14+080

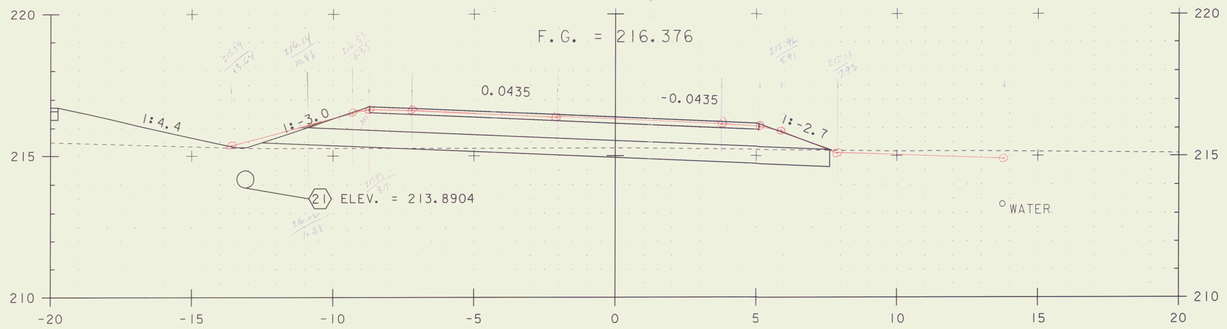
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
VT ROUTE 14 CROSS SECTION SHEET 3

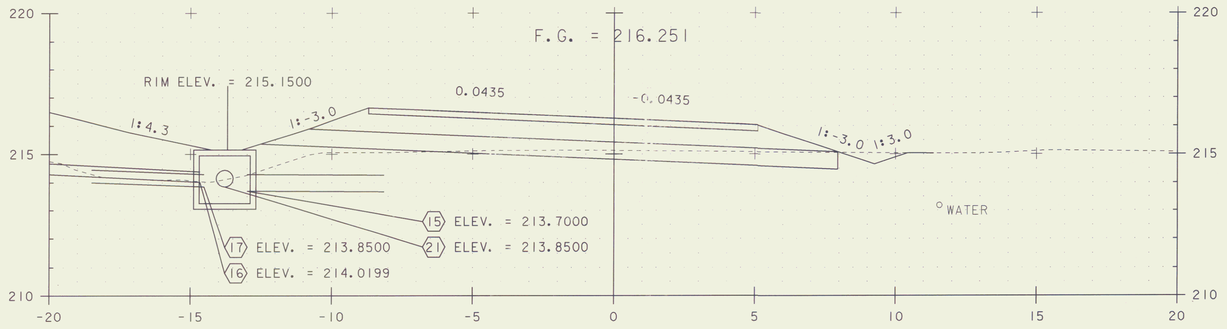
PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 118 OF 142



14+120.00



14+100.00



14+092.00

NOTES:

1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

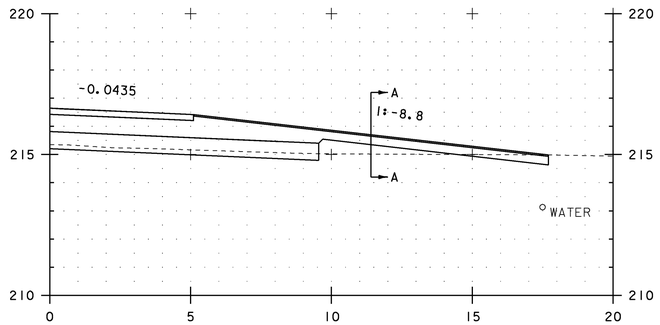
0 2 4 6 8 10
SCALE 1:100

STA. 14+092 TO STA. 14+120

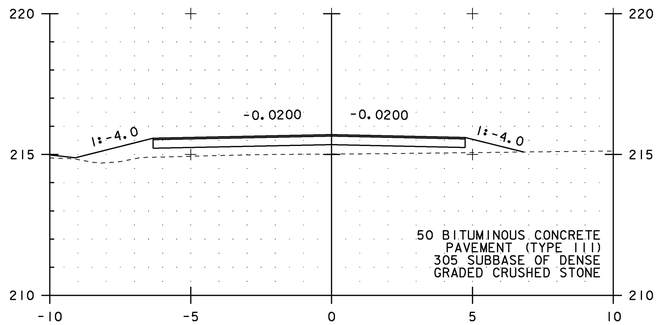
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
VT ROUTE 14 CROSS SECTION SHEET 4

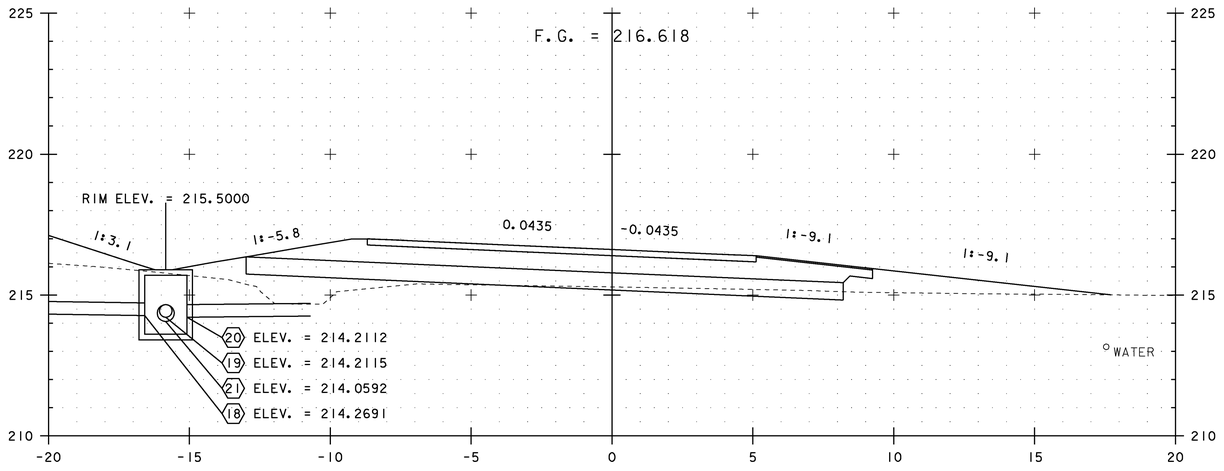
PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 119 OF 142



14+137.00
PAVED DRIVE RT



SECTION A-A



14+131.00

0 2 4 6 8 10
SCALE 1:100

NOTES:

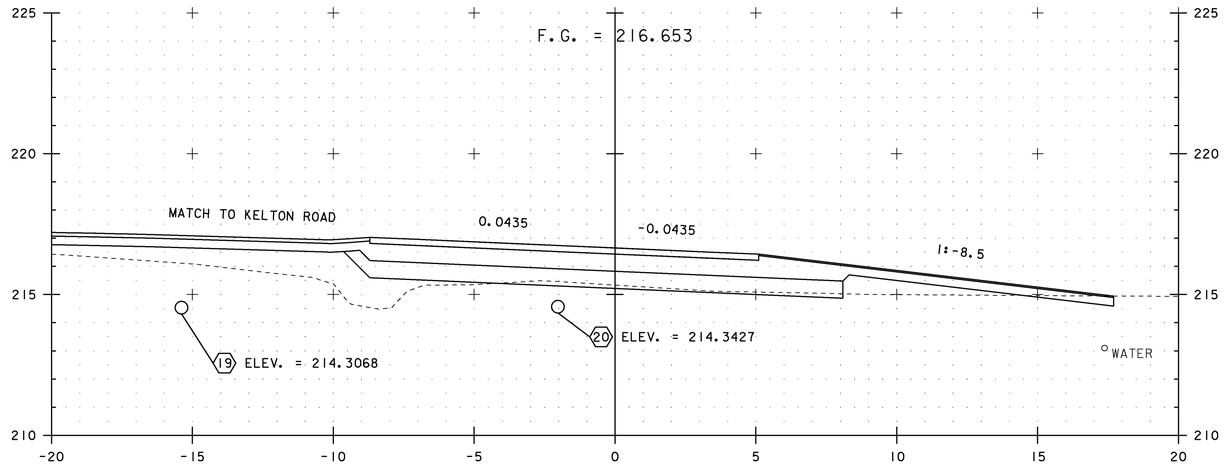
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 14+131 TO STA. 14+137

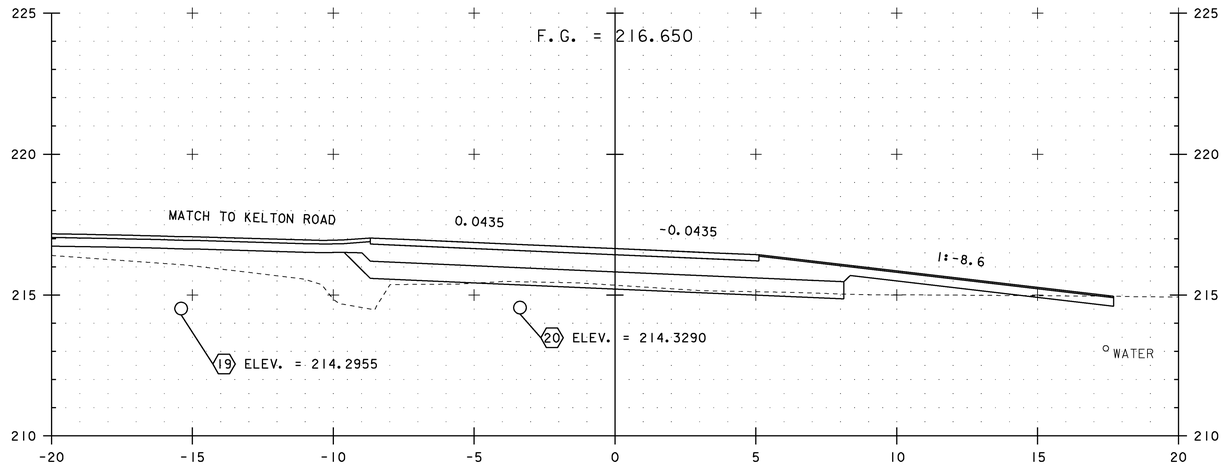
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
VT ROUTE 14 CROSS SECTION SHEET 5

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 120 OF 142



14+140.00



14+139.00

0 2 4 6 8 10
SCALE 1:100

NOTES:

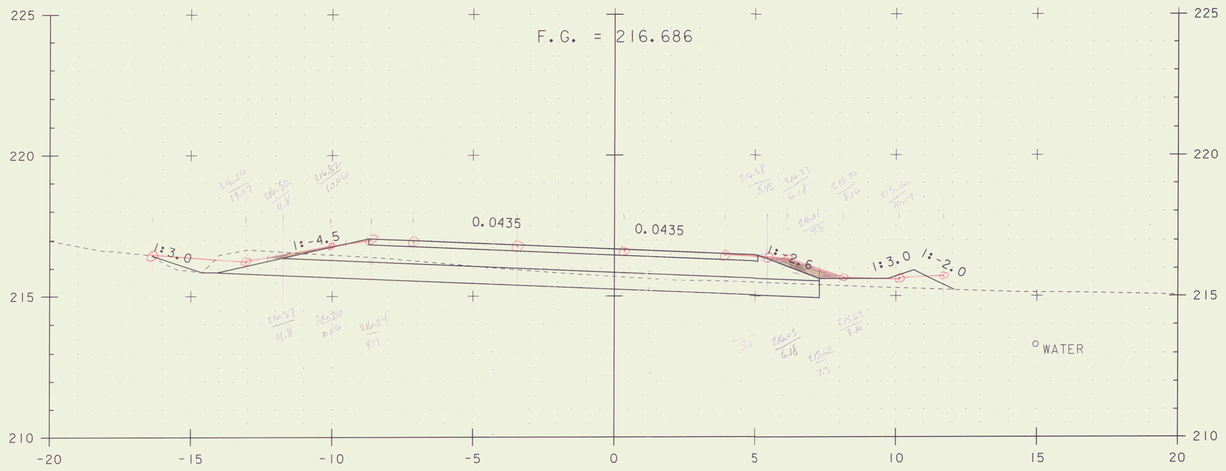
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 14+139 TO STA. 14+140

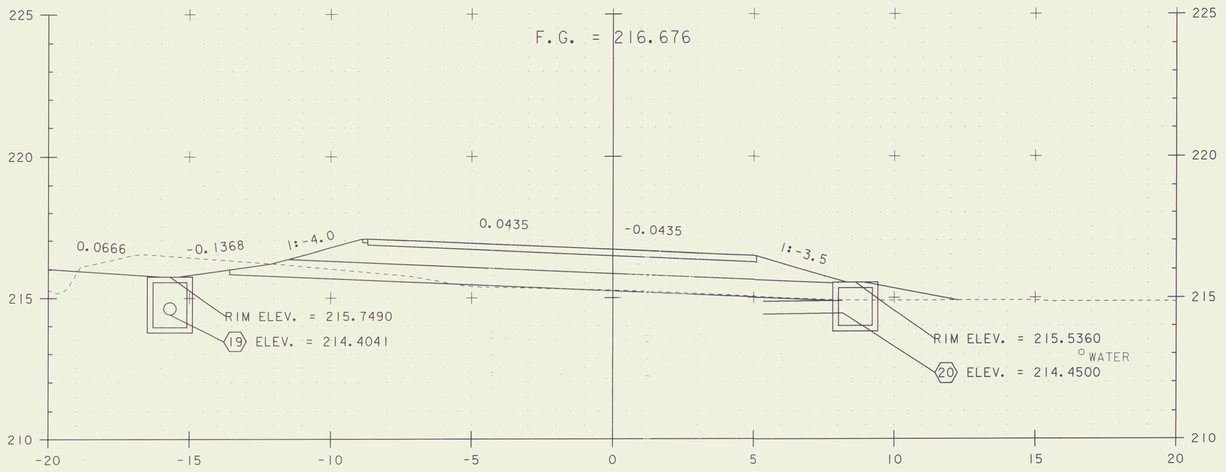
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
VT ROUTE 14 CROSS SECTION SHEET 6

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 121 OF 142



14+160.00



14+149.00

0 2 4 6 8 10
SCALE 1:100

NOTES:

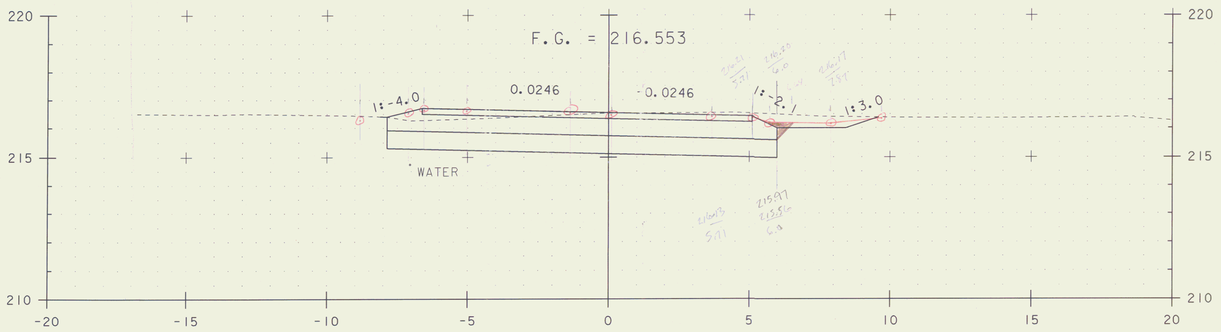
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 14+149 TO STA. 14+160

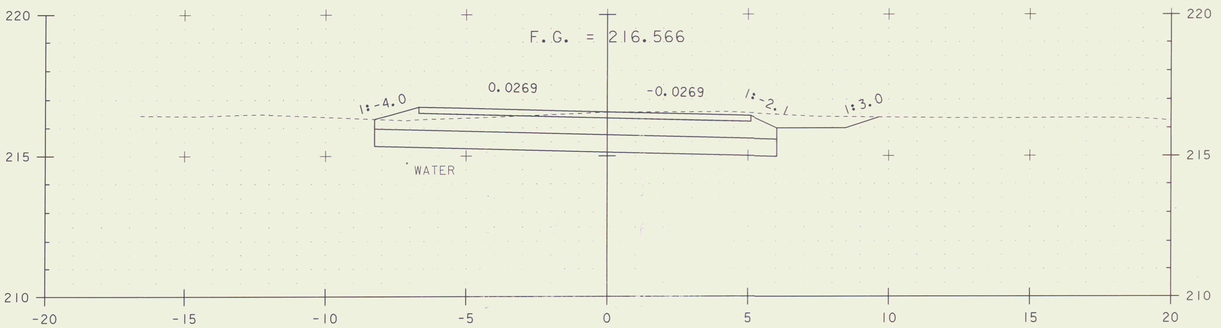
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
VT ROUTE 14 CROSS SECTION SHEET 7

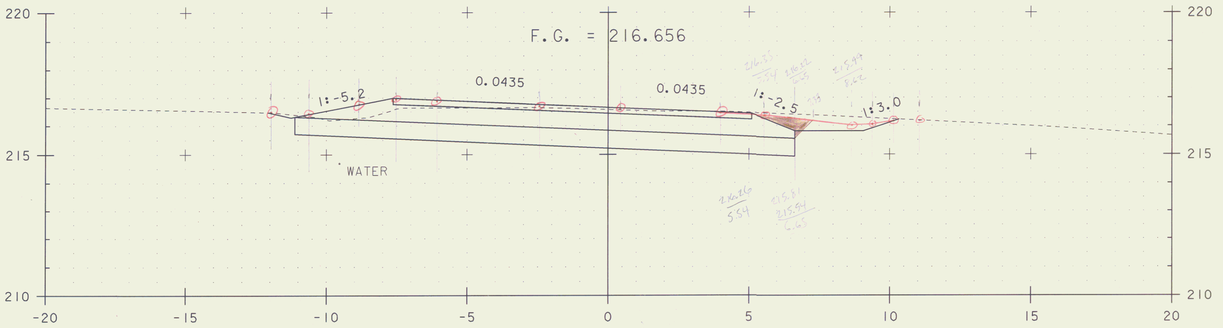
PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 122 OF 142



14+200.00



PT 14+198.61



14+180.00

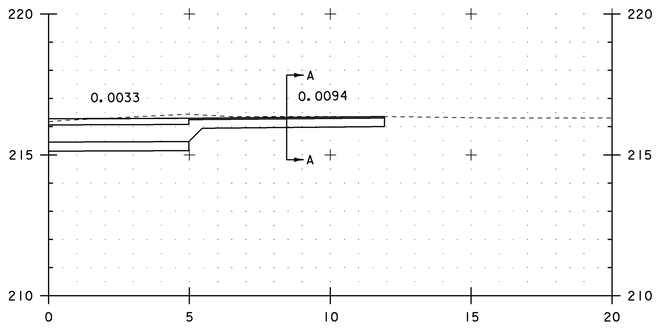
NOTES:

1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

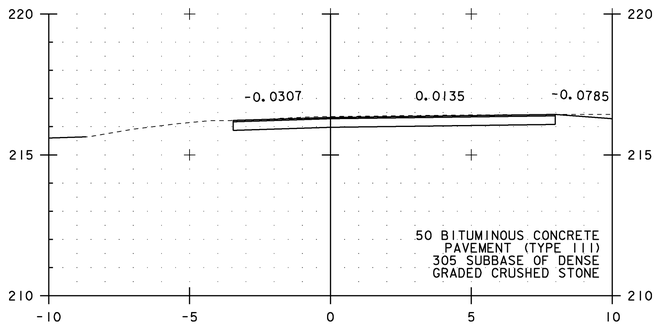
STA. 14+180 TO STA. 14+200

0 2 4 6 8 10
SCALE 1:100

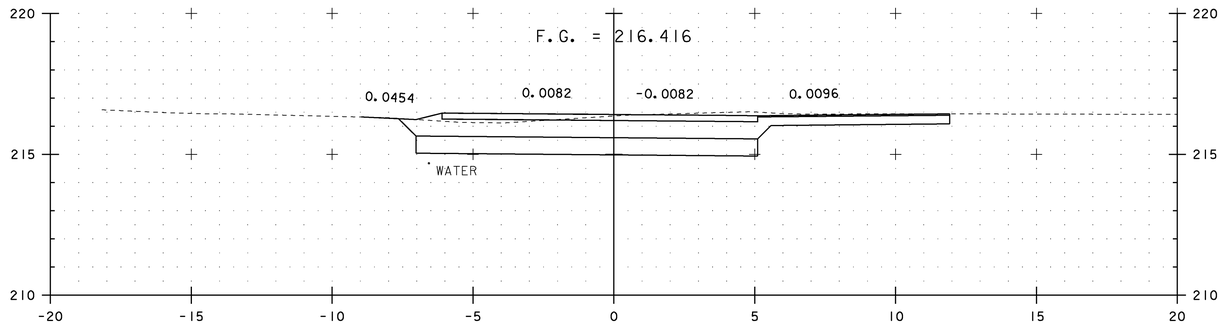
PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028xsl.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
VT ROUTE 14 CROSS SECTION SHEET 8	SHEET 123 OF 142



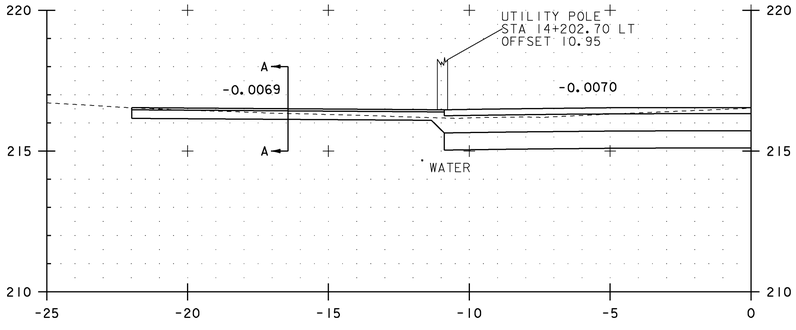
14+217.00
PAVED DRIVE RT



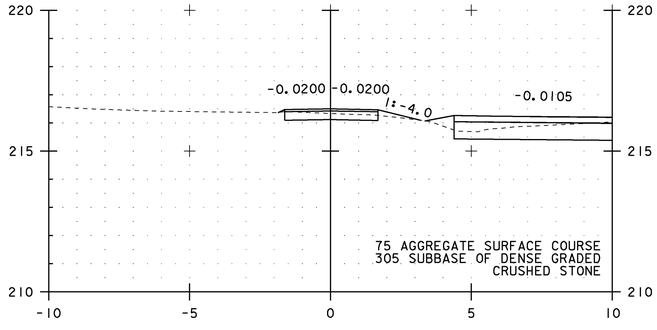
SECTION A-A



14+210.00
END PROJECT
BEGIN APPROACH



14+201.00
SKEWED 55°56'43.44"
GRAVEL DRIVE LT



SECTION A-A

0 2 4 6 8 10
SCALE 1:100

NOTES:

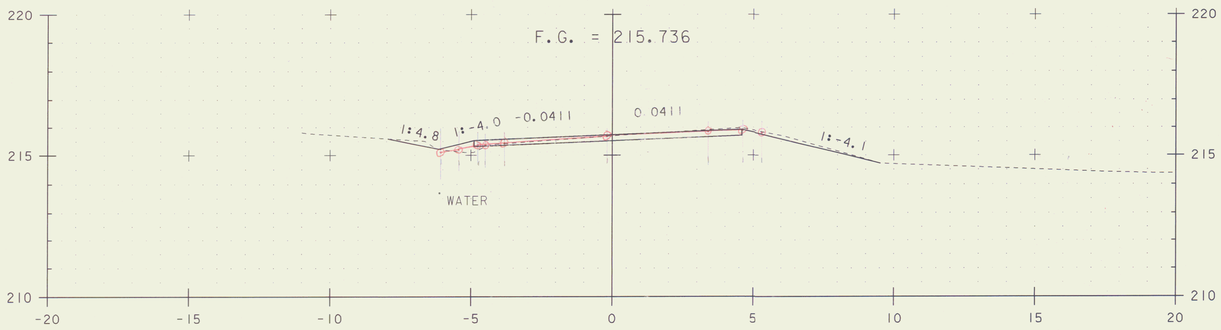
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 14+201 TO STA. 14+217

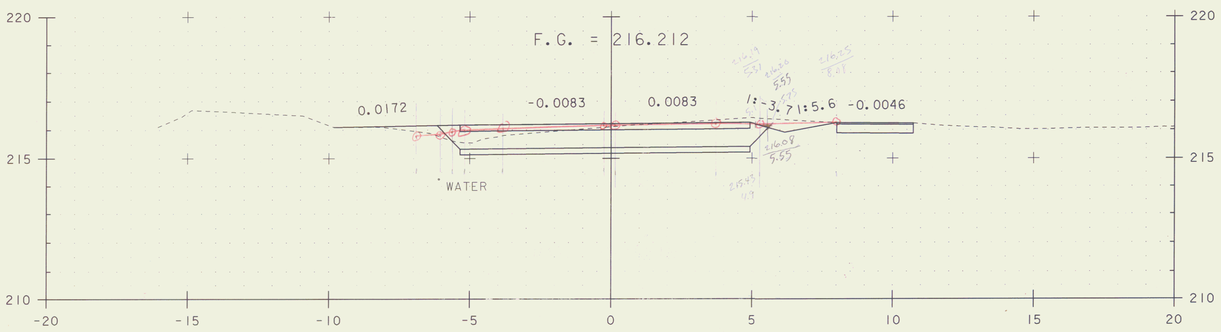
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
VT ROUTE 14 CROSS SECTION SHEET 9

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 124 OF 142



14+240.00



14+220.00

0 2 4 6 8 10
SCALE 1:100

NOTES:

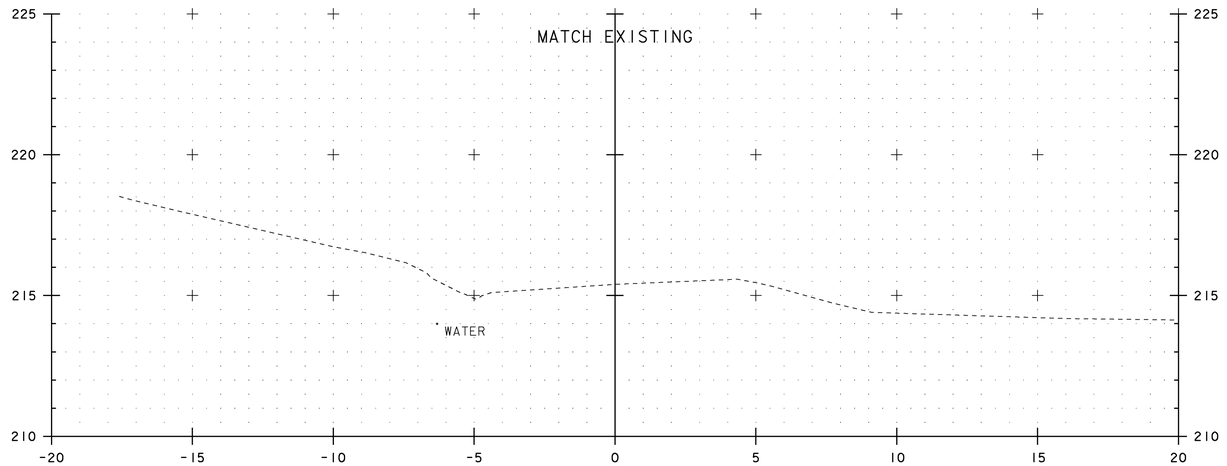
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 14+220 TO STA. 14+240

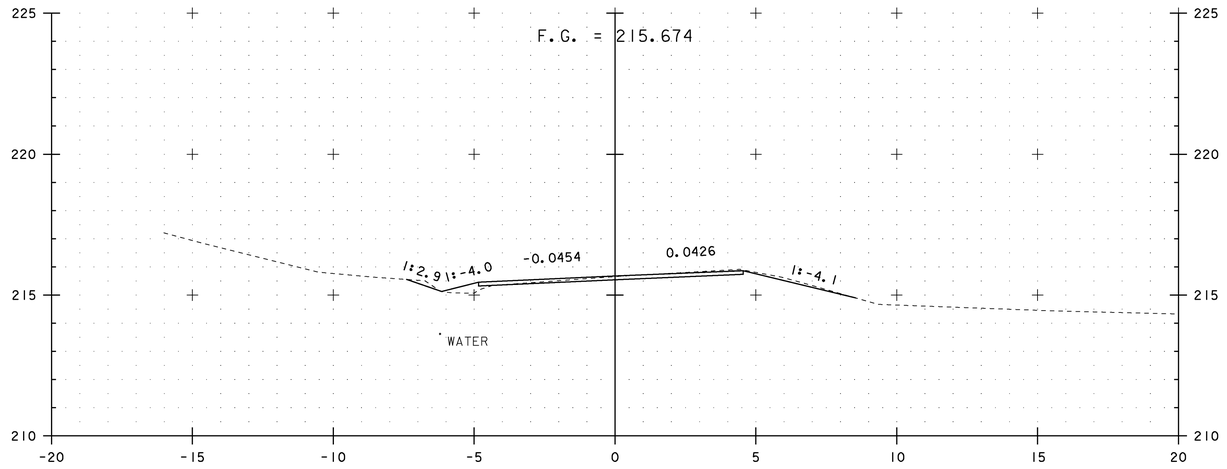
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
VT ROUTE 14 CROSS SECTION SHEET 10

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 125 OF 142



14+255.00
END APPROACH



PC 14+242.60

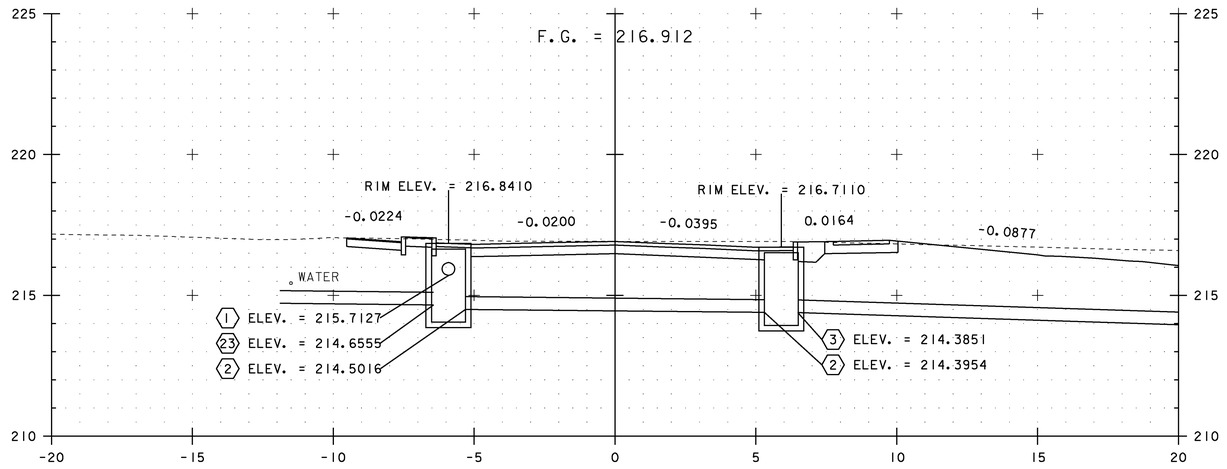
0 2 4 6 8 10
SCALE 1:100

NOTES:

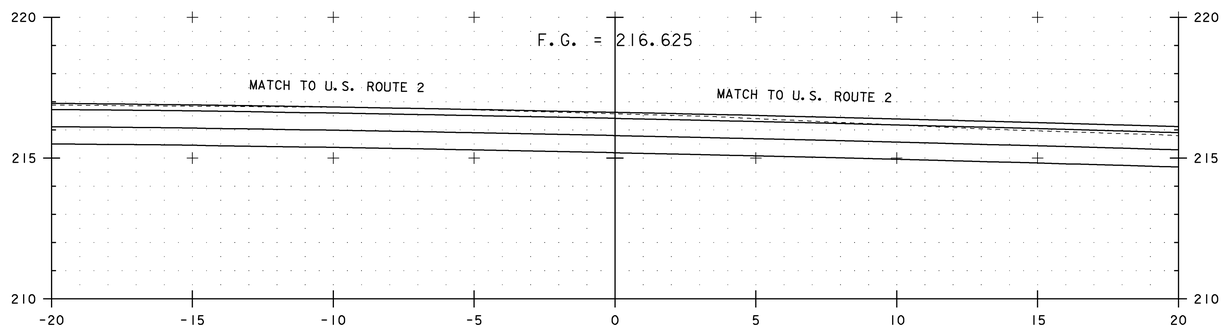
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 14+242.60 TO STA. 14+255

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028xsl.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
VT ROUTE 14 CROSS SECTION SHEET II	SHEET 126 OF 142



40+011.00



40+000.00 =
U.S. ROUTE 2 STA 4+737.50

0 2 4 6 8 10
SCALE 1:100

NOTES:

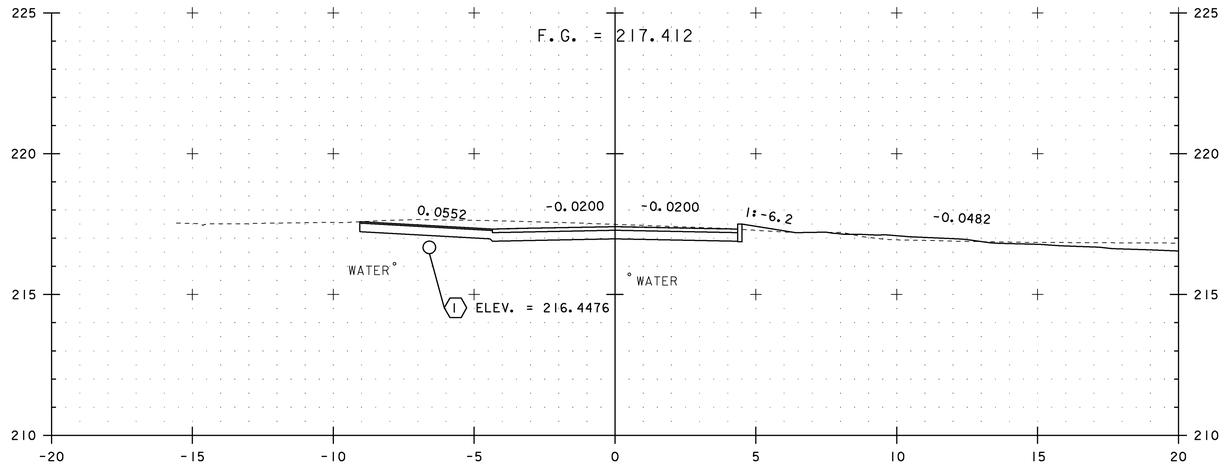
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 40+000 TO STA. 40+011

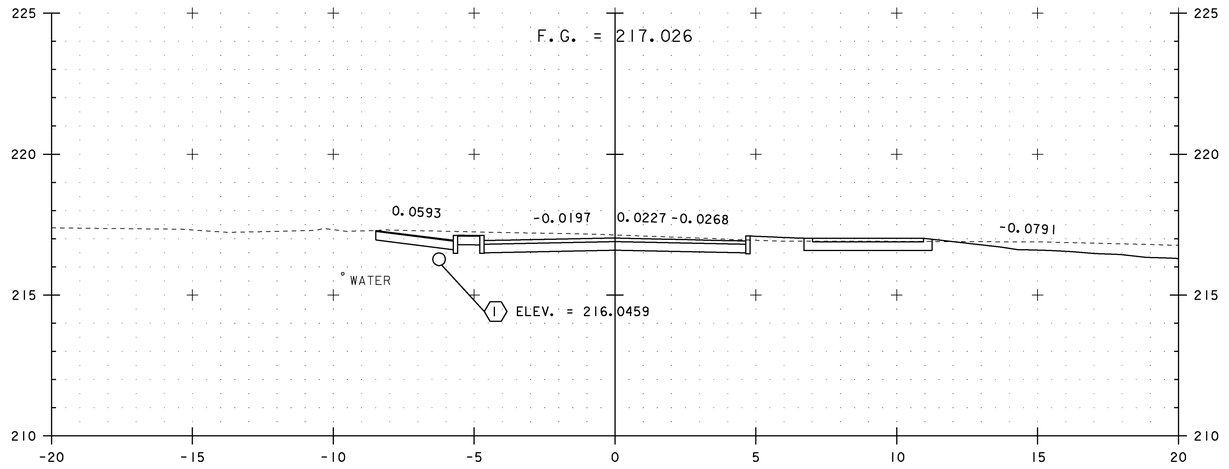
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
QUAKER HILL ROAD CROSS SECTION SHEET 1

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 127 OF 142



40+019.00



40+015.00

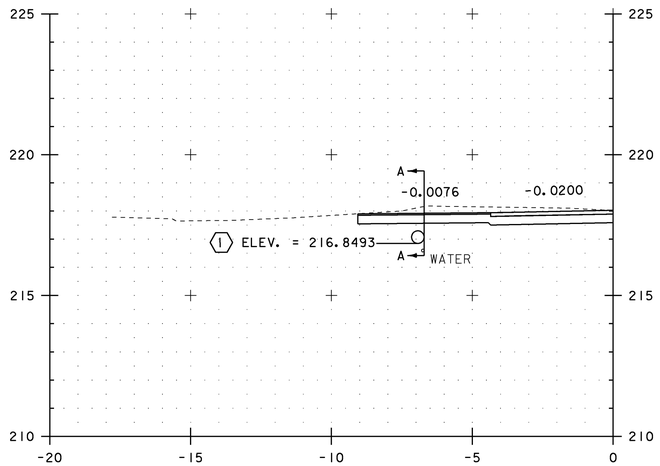
0 2 4 6 8 10
SCALE 1:100

NOTES:

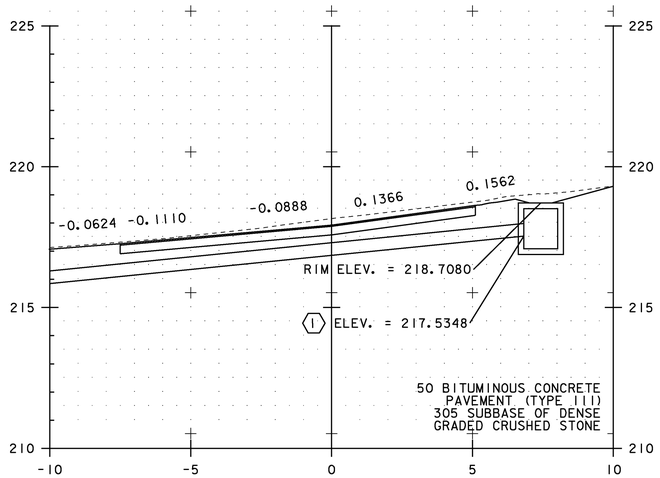
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 40+015 TO STA. 40+019

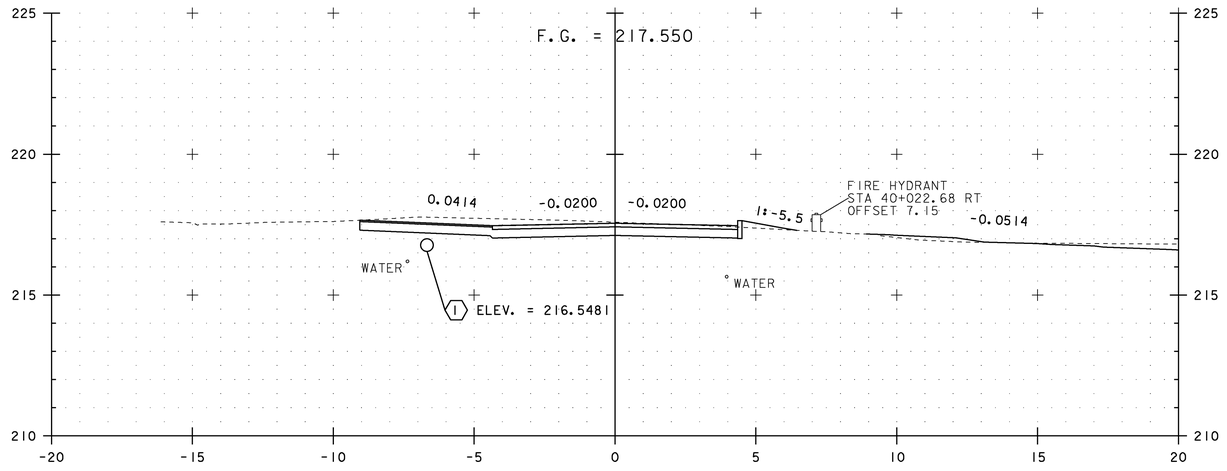
PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028xsl.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
QUAKER HILL ROAD CROSS SECTION SHEET 2	SHEET 128 OF 142



40+023.00
PAVED DRIVE LT



SECTION A-A



40+020.00

0 2 4 6 8 10
SCALE 1:100

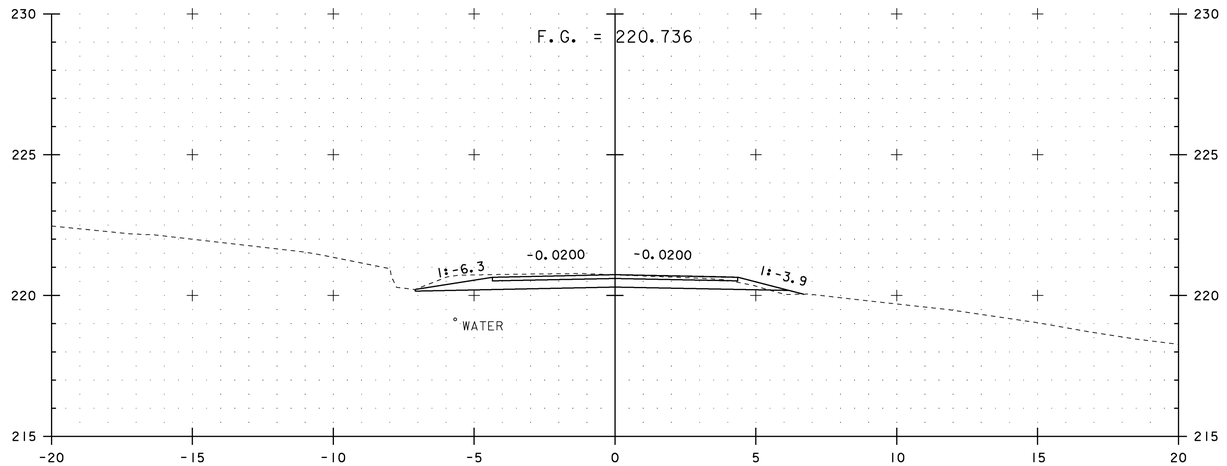
NOTES:

1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

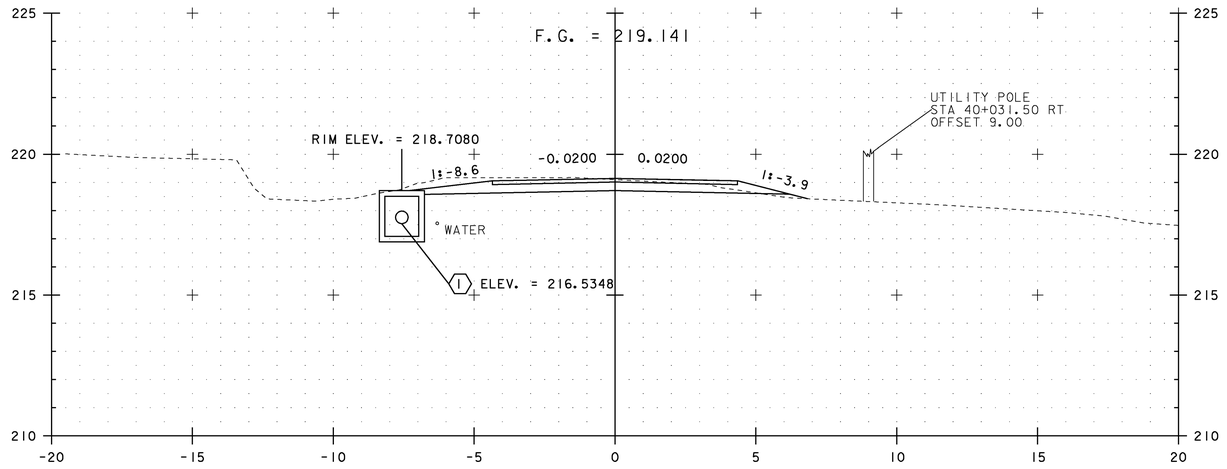
STA. 40+020 TO STA. 40+023

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ CHECKED BY: J. DEVLIN
QUAKER HILL ROAD CROSS SECTION SHEET 3 SHEET 129 OF 142



40+040.00



40+030.00

0 2 4 6 8 10
SCALE 1:100

NOTES:

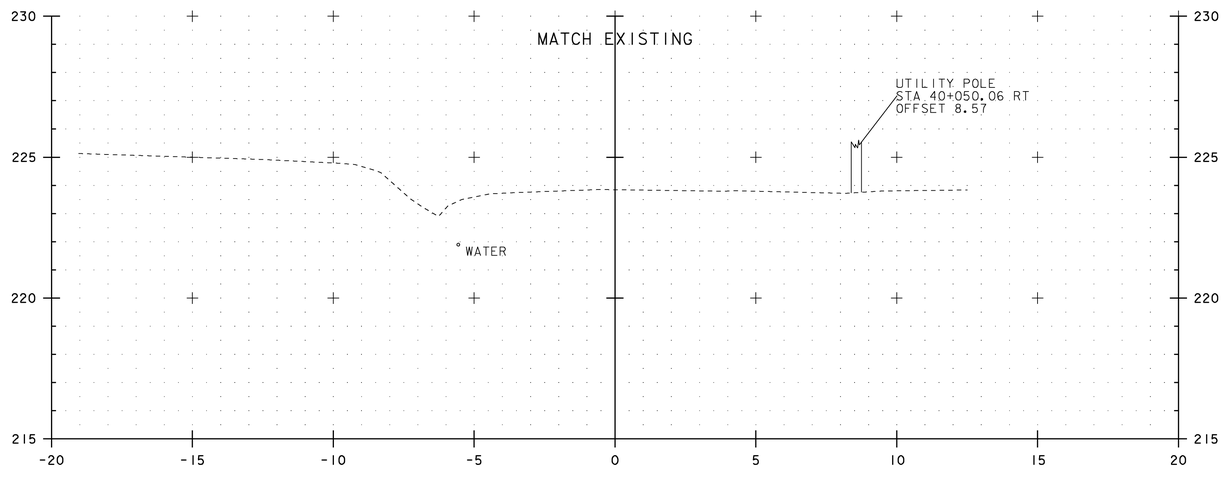
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 40+030 TO STA. 40+040

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
QUAKER HILL ROAD CROSS SECTION SHEET 4

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 130 OF 142



40+060.00
END CONSTRUCTION

0 2 4 6 8 10
SCALE 1:100

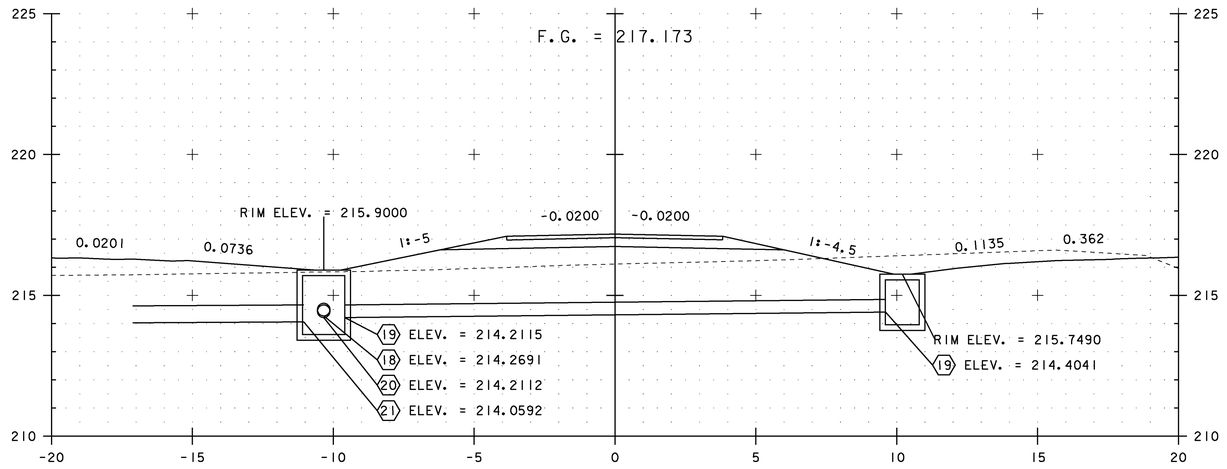
NOTES:

1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

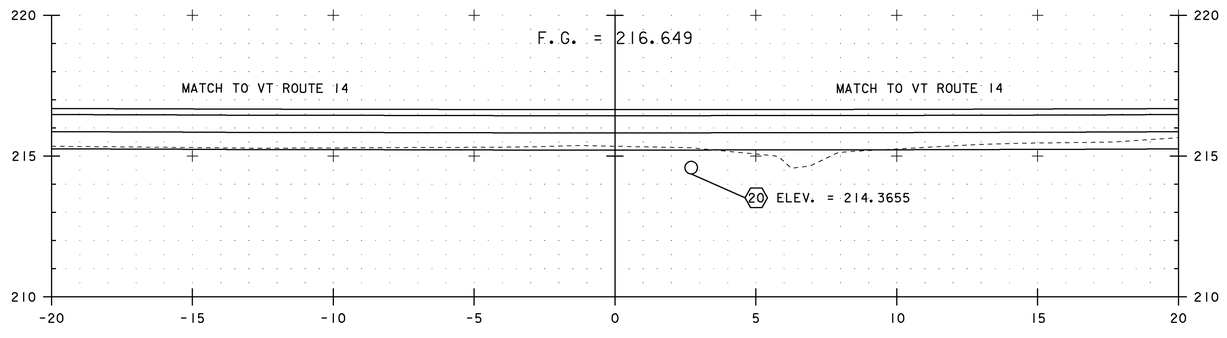
STA. 40+060

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN



PC 30+015.34



30+000.00 =
VT ROUTE 14 STA 14+139.00

0 2 4 6 8 10
SCALE 1:100

NOTES:

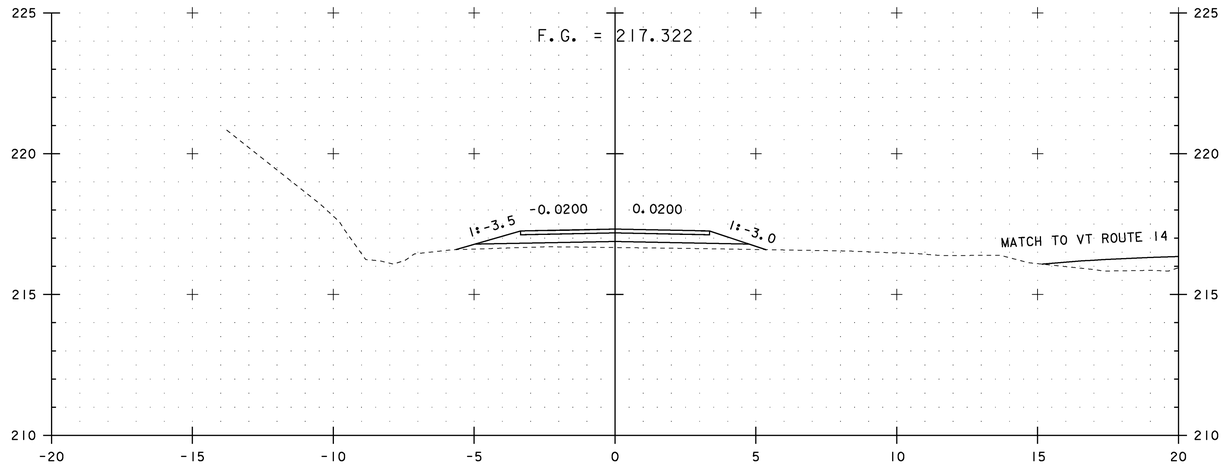
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 30+000 TO STA. 30+015.34

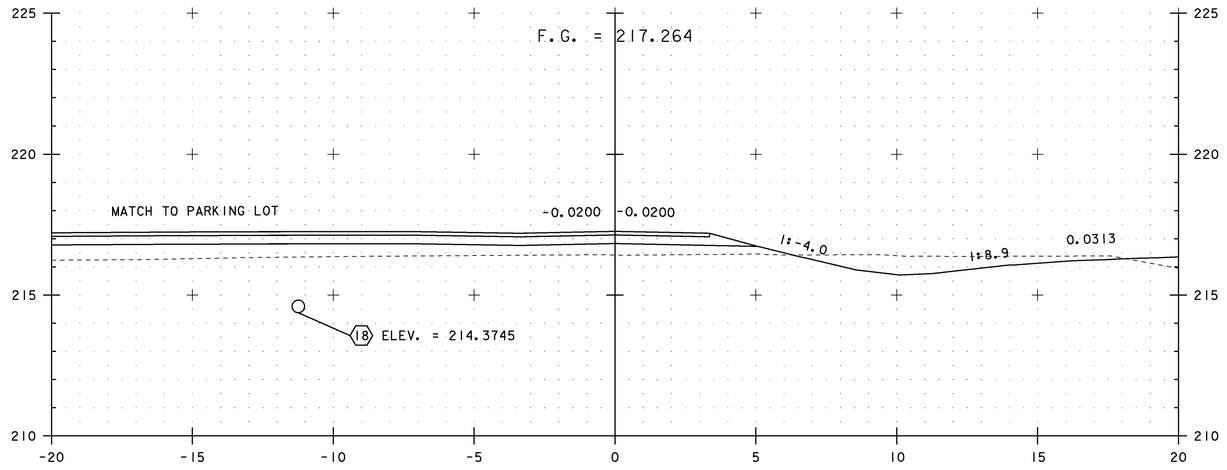
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
KELTON ROAD CROSS SECTION SHEET 1

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 132 OF 142



30+030.00



30+020.00

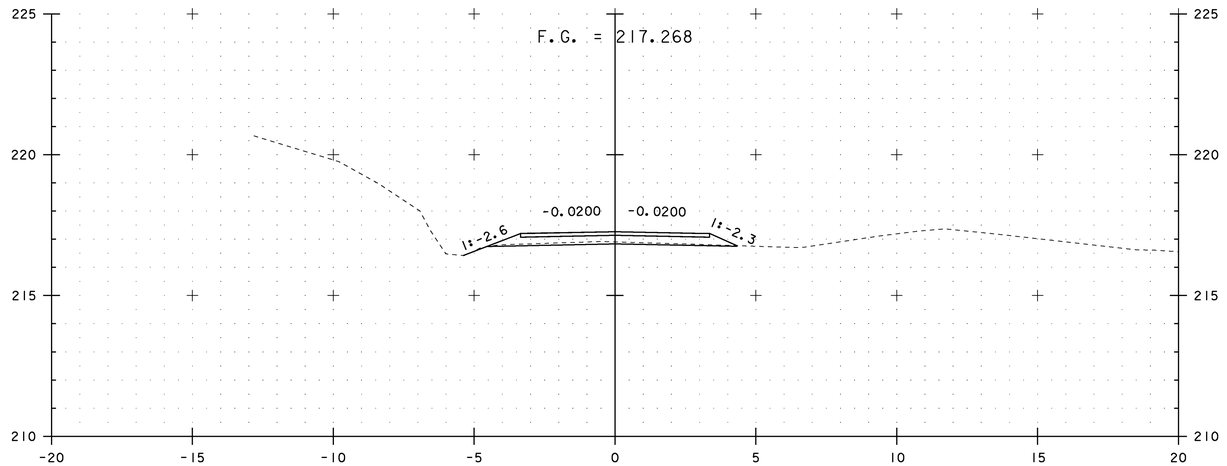
NOTES:

1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

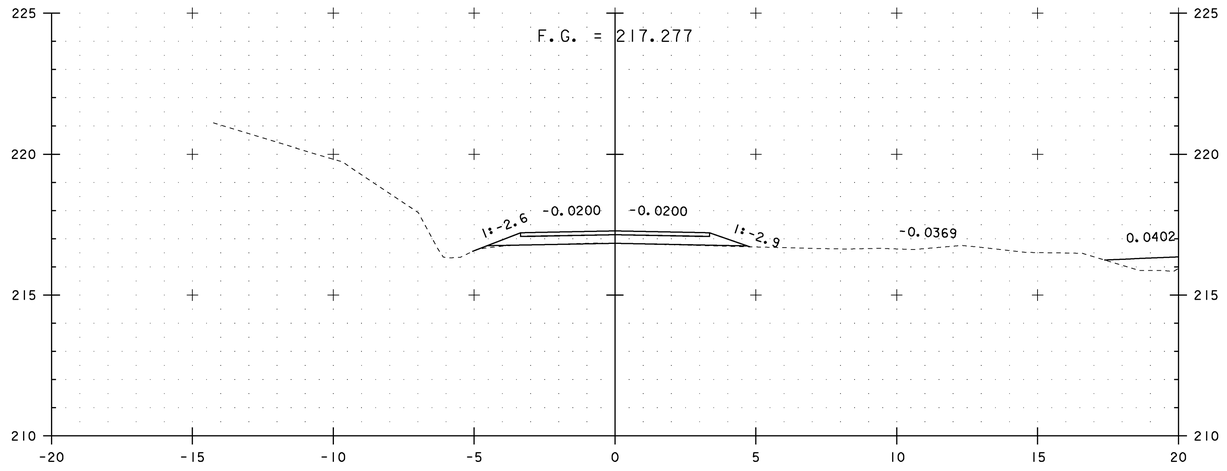
0 2 4 6 8 10
SCALE 1:100

STA. 30+020 TO STA. 30+030

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028xsl.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
KELTON ROAD CROSS SECTION SHEET 2	SHEET 133 OF 142



30+040.00



PT 30+036.85

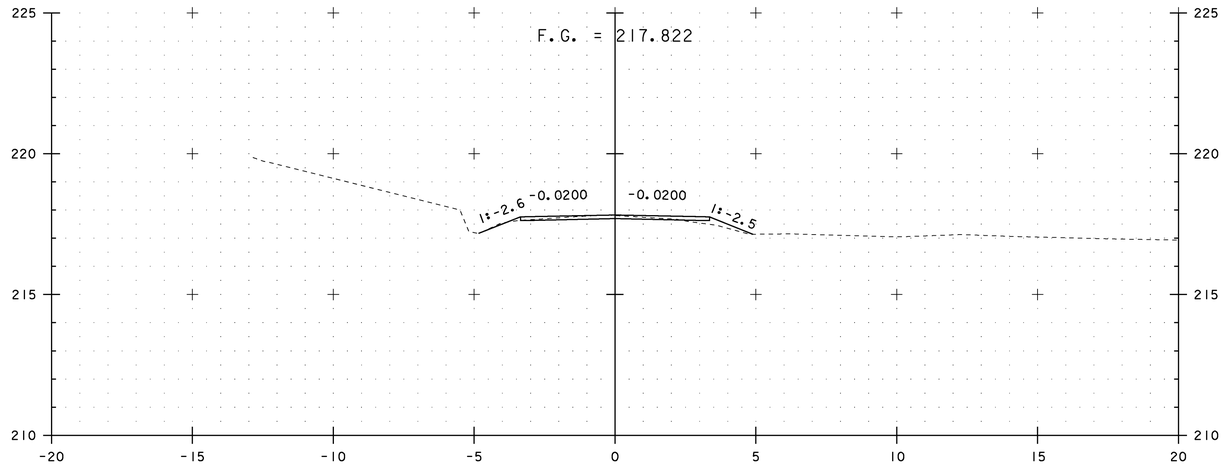
0 2 4 6 8 10
SCALE 1:100

NOTES:

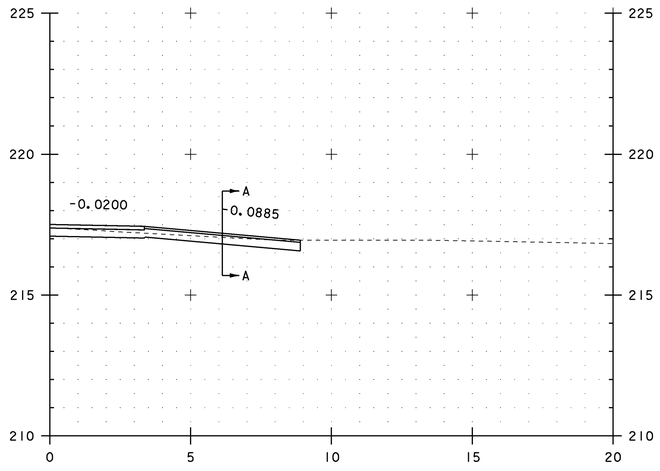
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 30+036.85 TO STA. 30+040

PROJECT NAME:	EAST MONTPELIER
PROJECT NUMBER:	STPG 028 - 3(35)S
FILE NAME: t98b028xsl.dgn	PLOT DATE: 22-MAR-2010
PROJECT LEADER: J. SCHULTZ	DRAWN BY: D. LYMAN
DESIGNED BY: J. GRUCHACZ	CHECKED BY: J. DEVLIN
KELTON ROAD CROSS SECTION SHEET 3	SHEET 134 OF 142



30+060.00



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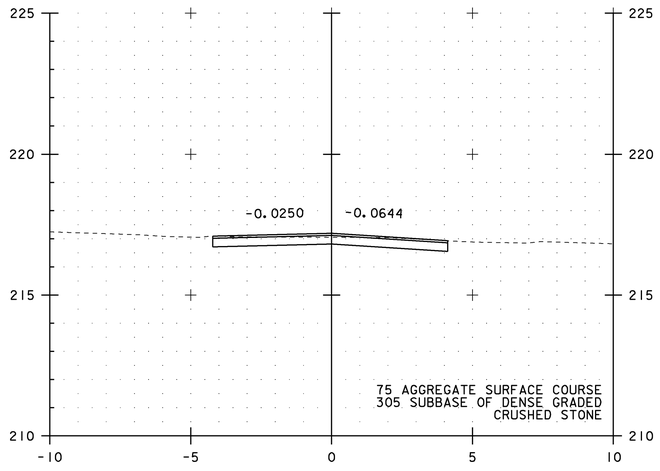
GRAVEL DRIVE RT



SECTION A-A

0 2 4 6 8 10
SCALE 1:100

NOTES:

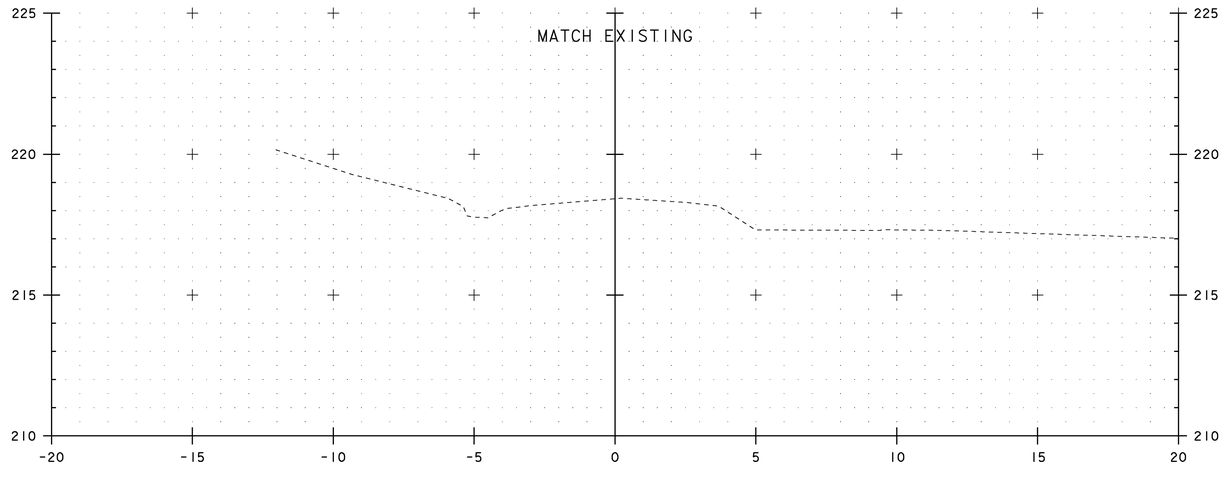
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 30+053 TO STA. 30+060

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
KELTON ROAD CROSS SECTION SHEET 4

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 135 OF 142



30+070.00
END CONSTRUCTION

0 2 4 6 8 10
SCALE 1:100

NOTES:

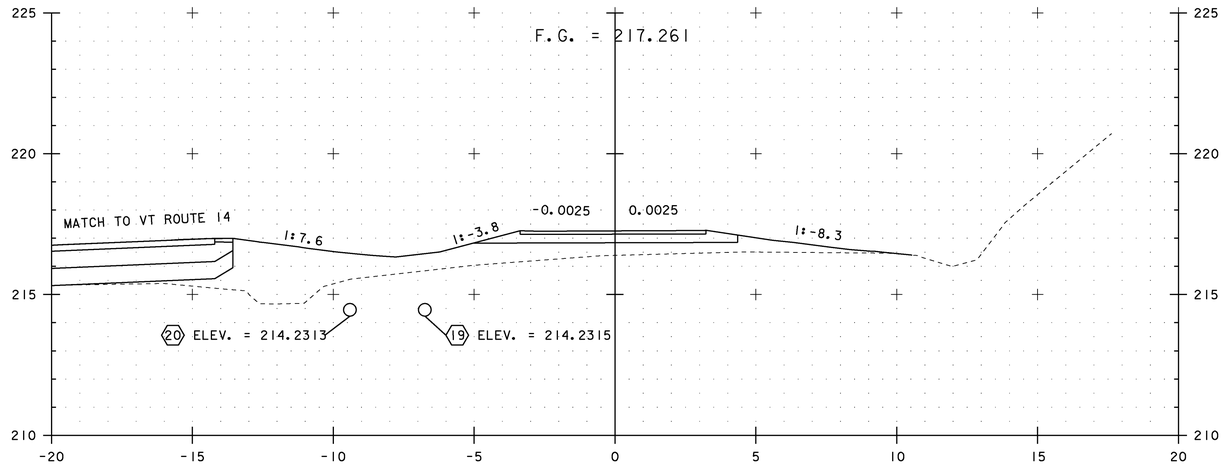
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 30+070

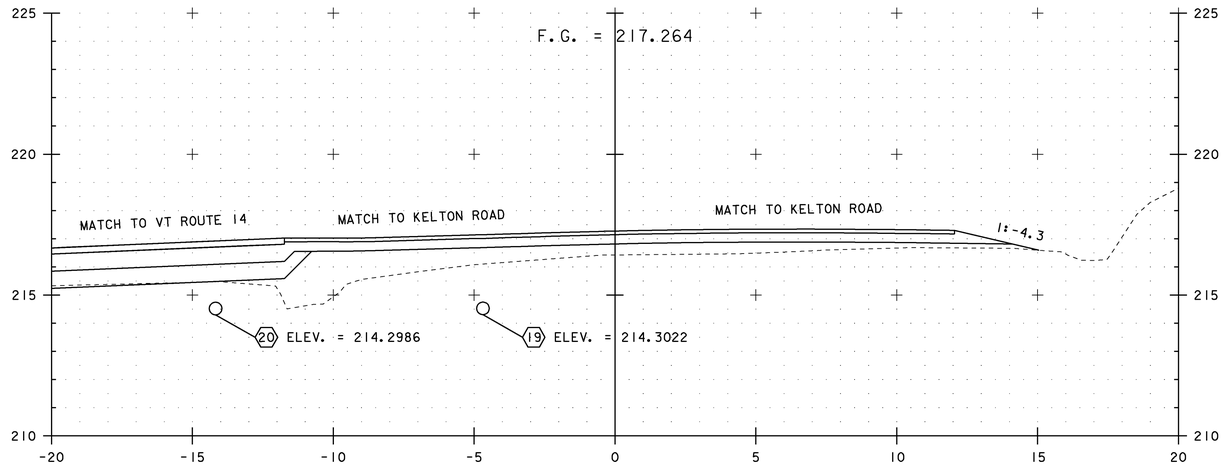
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
KELTON ROAD CROSS SECTION SHEET 5

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 136 OF 142



PC 100+006.76



100+000.00 =
KELTON ROAD STA 30+020.00

0 2 4 6 8 10
SCALE 1:100

NOTES:

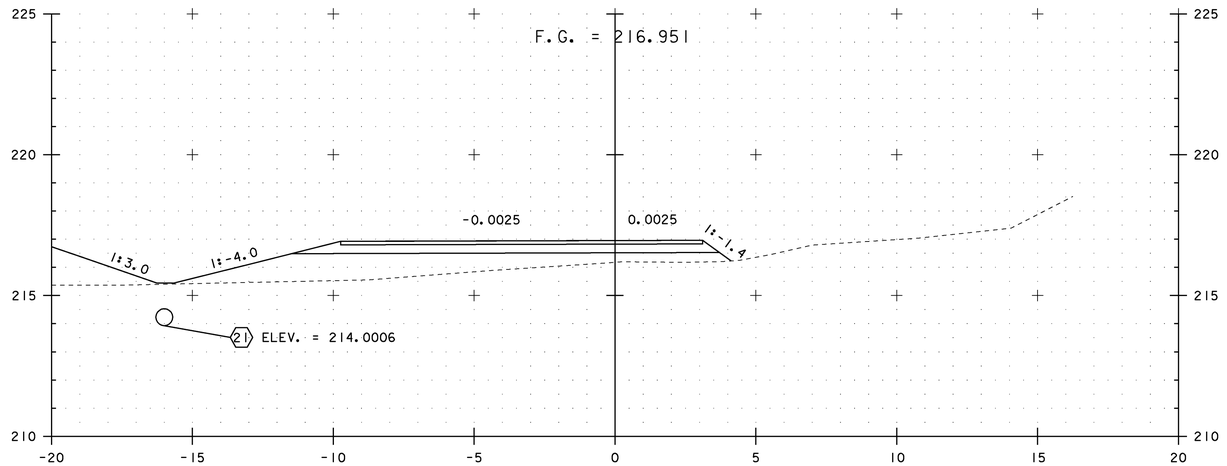
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 100+000 TO STA. 100+006.76

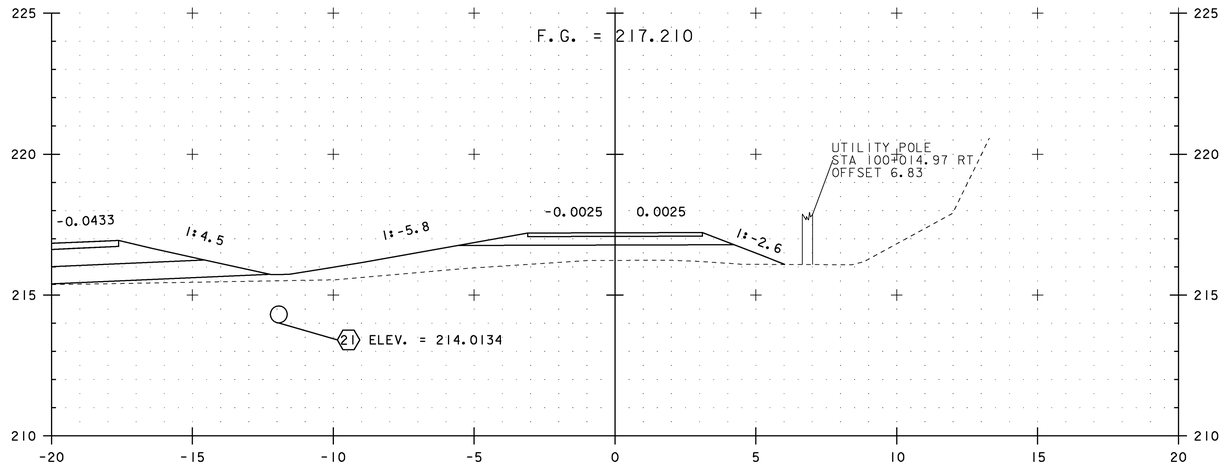
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
PARKING LOT CROSS SECTION SHEET 1

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 137 OF 142



100+040.00



100+020.00

NOTES:

1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

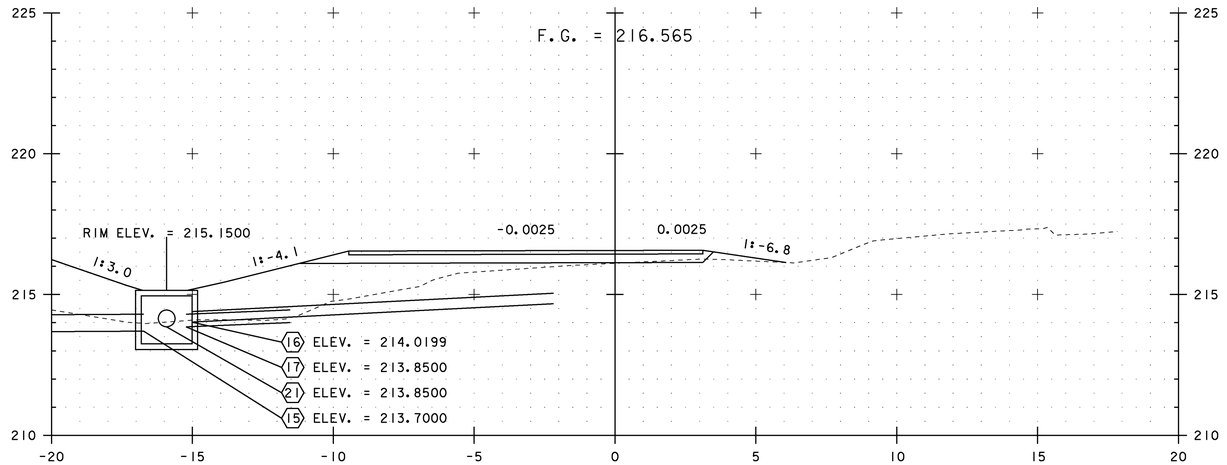
0 2 4 6 8 10
SCALE 1:100

STA. 100+020 TO STA. 100+040

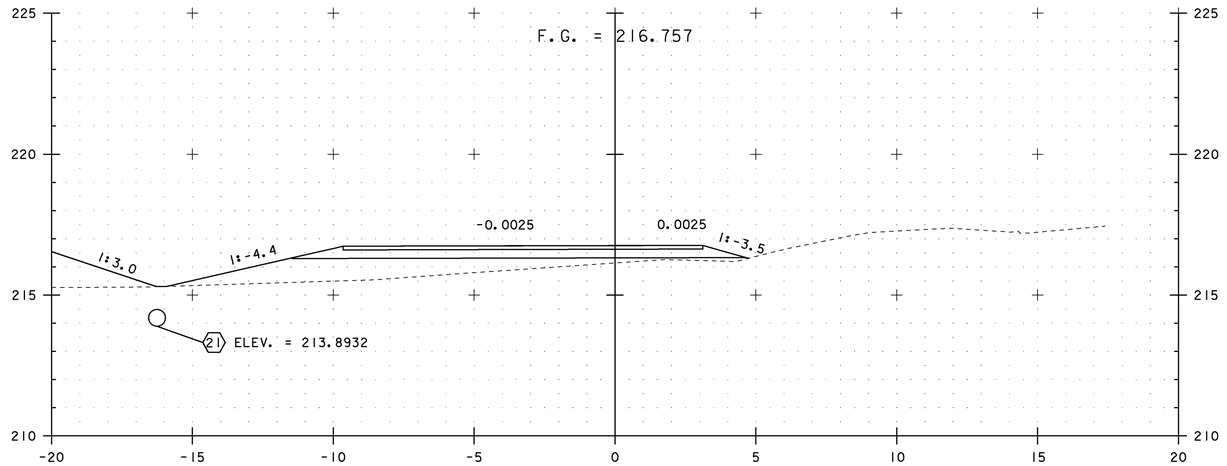
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
PARKING LOT CROSS SECTION SHEET 2

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 138 OF 142



100+060.00



PT 100+049.80

0 2 4 6 8 10
SCALE 1:100

NOTES:

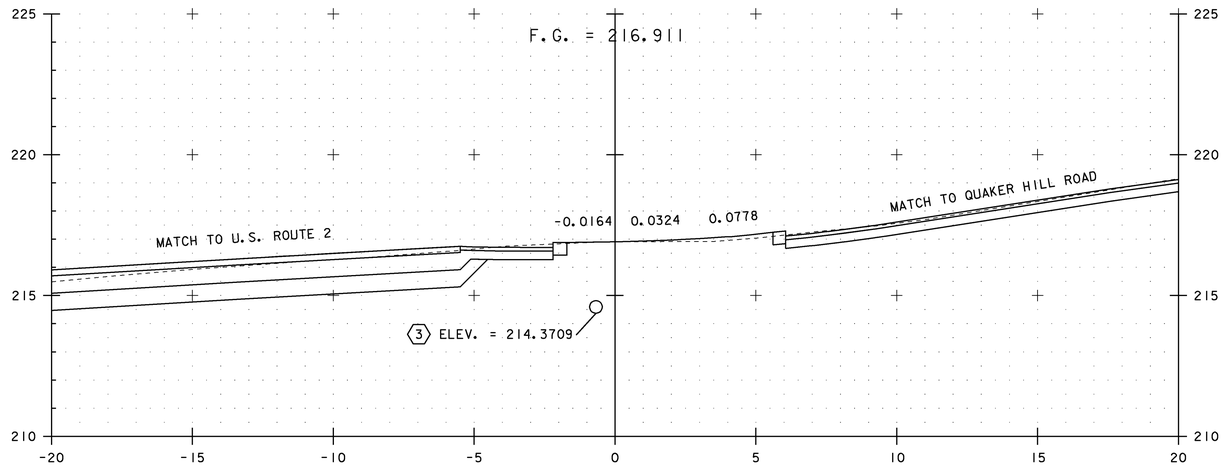
1. ALL BURIED UTILITIES ARE EXISTING, THE LOCATIONS ARE APPROXIMATE AND ARE TO REMAIN UNDISTURBED
2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

STA. 100+049.80 TO STA. 100+060

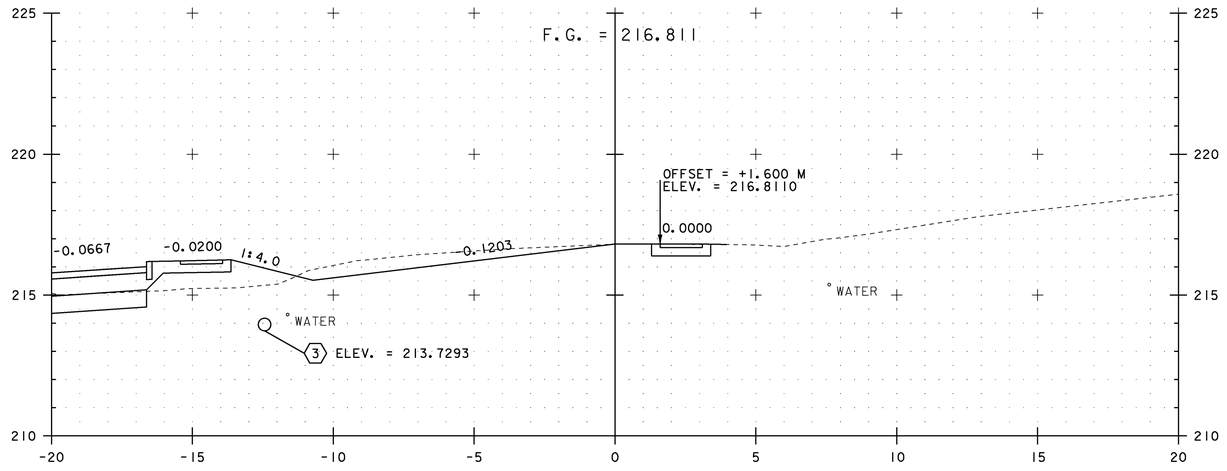
PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
PARKING LOT CROSS SECTION SHEET 3

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 139 OF 142



100+157.00



100+140.00

NOTES:

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2. DRAINAGE FEATURES DISPLAYED ON CROSS SECTIONS ARE PROJECTED. SEE DRAINAGE DETAIL SHEETS, LAYOUTS AND PROFILES FOR TRUE LOCATIONS

0 2 4 6 8 10
SCALE 1:100

STA. 100+140 TO STA. 100+157

PROJECT NAME: EAST MONTPELIER
PROJECT NUMBER: STPG 028 - 3(35)S

FILE NAME: t98b028xsl.dgn
PROJECT LEADER: J. SCHULTZ
DESIGNED BY: J. GRUCHACZ
PARKING LOT CROSS SECTION SHEET 6

PLOT DATE: 22-MAR-2010
DRAWN BY: D. LYMAN
CHECKED BY: J. DEVLIN
SHEET 142 OF 142