INDEX OF SHEETS

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AGENCY OF TRANSPORTATION STANDARDS

NAME	DESCRIPTION	ENGLISH
B-71	STANDARD FOR RESIDENTIAL AND COMMERCIAL DRIVES	7/8/2005
C-10	CURBING	2/11/2008
C-2A	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK ADJACENT TO CURB	10/14/2005
C-2B	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK AND GREEN STRIP	10/14/2005
C-3A	SIDEWALK RAMPS	3/10/2008
C-3B	SIDEWALK RAMPS AND MEDIAN ISLANDS	3/10/2008
E-125	TRAVEL INFORMATION SIGNS	8/8/1995
E-141	REGULATORY SIGN DETAILS	9/20/1995
E-142	REGULATORY SIGN DETAILS	9/20/1995
E-143	REGULATORY SIGN DETAILS	6/15/2004
E-163	TUBULAR STEEL SIGN POST	5/20/1999
E-191	PAVEMENT MARKING DETAILS	2/1/1999
E-192	PAVEMENT MARKING DETAILS	10/12/2000
E-193	PAVEMENT MARKING DETAILS	8/18/1995
T-1	TRAFFIC CONTROL GENERAL NOTES	8/6/2012
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	8/6/2012
T-17	TRAFFIC CONTROL MISCELLANEOUS DETAILS	8/6/2012
T-2	TRAFFIC SIGN GENERAL NOTES	2/12/2016
T-24	TRAFFIC CONTROL FOR MAINTENANCE PAVEMENT MARKING OPERATION	8/6/2012
T-28	CONSTRUCTION SIGN DETAILS	8/6/2012
T-29	CONSTRUCTION SIGN DETAILS	8/6/2012
T-30	CONSTRUCTION SIGN DETAILS	8/6/2012
T-31	CONSTRUCTION SIGN DETAILS	8/6/2012
T-33	MISCELLANEOUS SIGN DETAILS	8/6/2012
T-35	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS	8/6/2012
T-36	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS FOR PAVING	8/6/2012
T-40	DELINEATORS AND MILEPOSTS	1/2/2013
T-45	SQUARE TUBE SIGN POST AND ANCHOR	1/2/2013
T-56	STANDARD SIGN PLACEMENT	10/26/2015

PROPOSED IMPROVEMENT
HIGHGATE SIDEWALK PROJECT
TOWN OF HIGHGATE - COUNTY OF FRANKLIN

PROPOSED PEDESTRIAN FACILITY IMPROVEMENTS

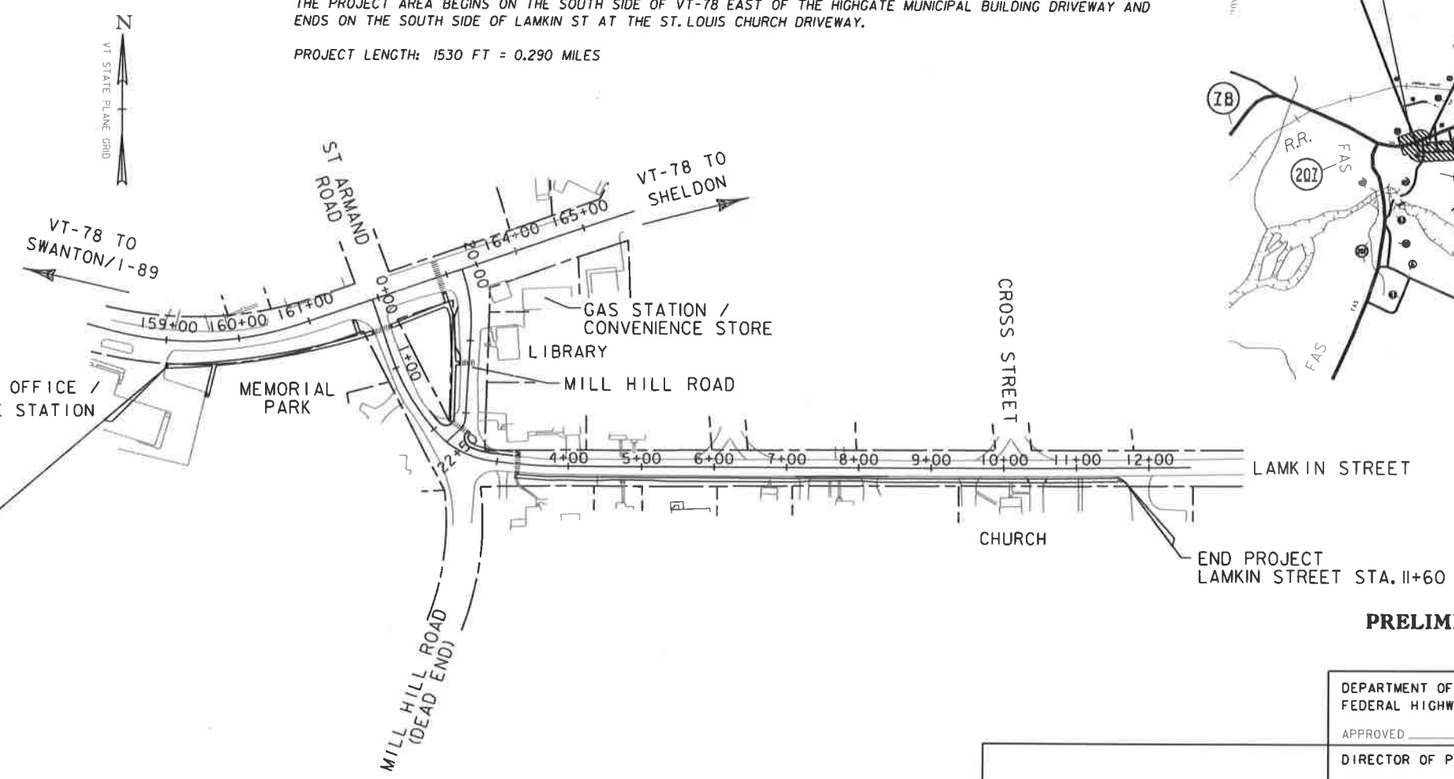
PROJECT DESCRIPTION:

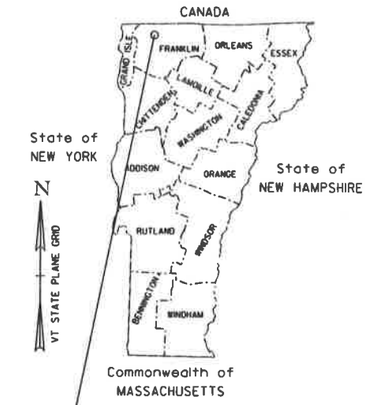
WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES CONSTRUCTION OF A SIDEWALK AND GRANITE CURB IN THE PROJECT AREA, MODIFICATION OF THE CIRCULATION PATTERN ON MILL HILL ROAD, STRIPING OF PARKING SPACES AND CROSSWALKS, SOLAR POWERED RADAR SPEED FEEDBACK SIGNS, SOLAR POWERED RECTANGULAR RAPID FALSHING BEACONS, ASSOCIATED SIGNS, AND OTHER INCIDENTAL ITEMS. APPROXIMATE LENGTH OF SIDEWALK CONSTRUCTION IS 1530 FT.

PROJECT LOCATION:

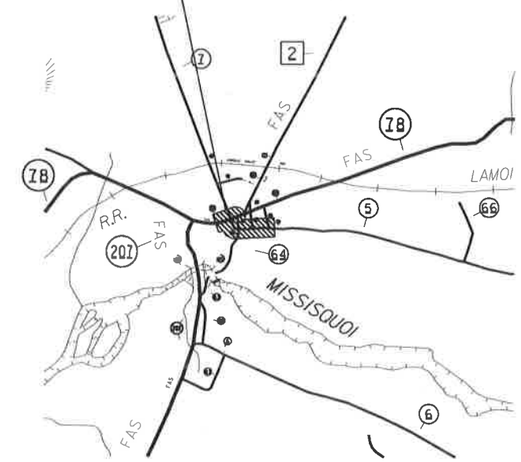
THE PROJECT AREA BEGINS ON THE SOUTH SIDE OF VT-78 EAST OF THE HIGHGATE MUNICIPAL BUILDING DRIVEWAY AND ENDS ON THE SOUTH SIDE OF LAMKIN ST AT THE ST. LOUIS CHURCH DRIVEWAY.

PROJECT LENGTH: 1530 FT = 0.290 MILES





PROJECT LOCATION
HIGHGATE SIDEWALK PROJECT
TAP TA13(1)



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 3

SURVEYED BY : TDH SURVEYING
SURVEYED DATE : MARCH 2014

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83

PRELIMINARY (60%) PLANS
JULY 2016

07/12/16

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATOR
APPROVED _____ DATE _____

DIRECTOR OF PROJECT DELIVERY
APPROVED _____ DATE _____

PROJECT MANAGER :

PROJECT NAME : HIGHGATE TAP TA13(1)
PROJECT NUMBER : TAP TA13(1)

SHEET 1 OF 16 SHEETS

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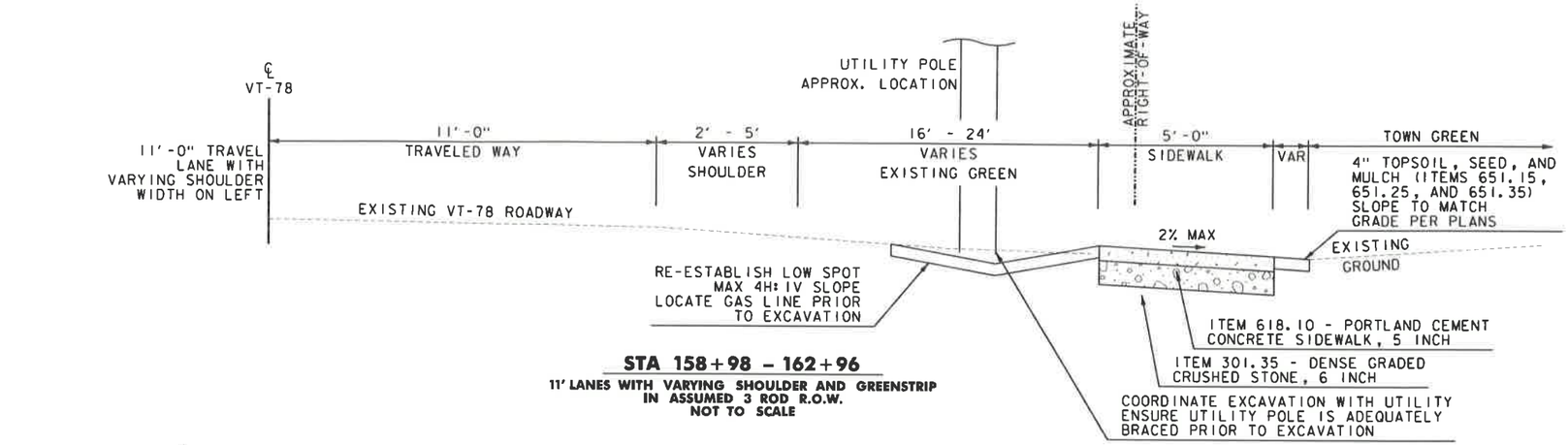
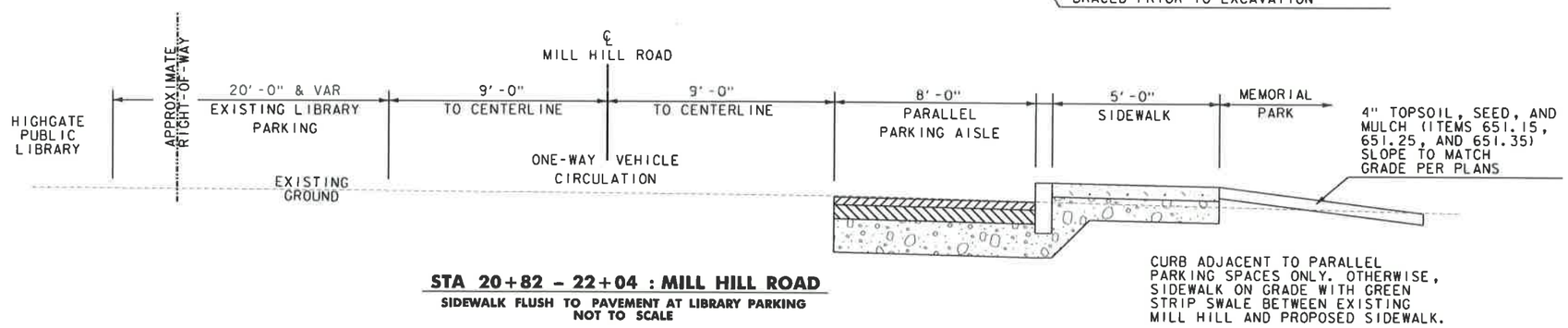


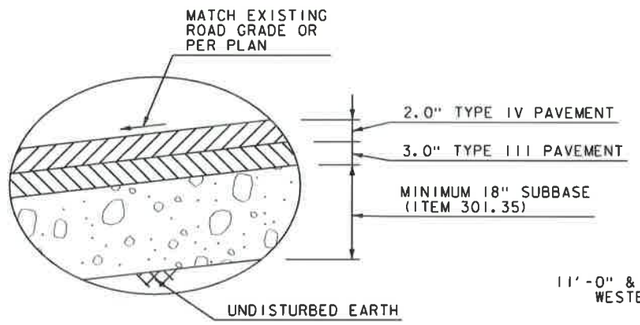
STA 158+98 – 162+96

11' LANES WITH VARYING SHOULDER AND GREENSTRIP IN ASSUMED 3 ROD R.O.W.
NOT TO SCALE



STA 20+82 – 22+04 : MILL HILL ROAD

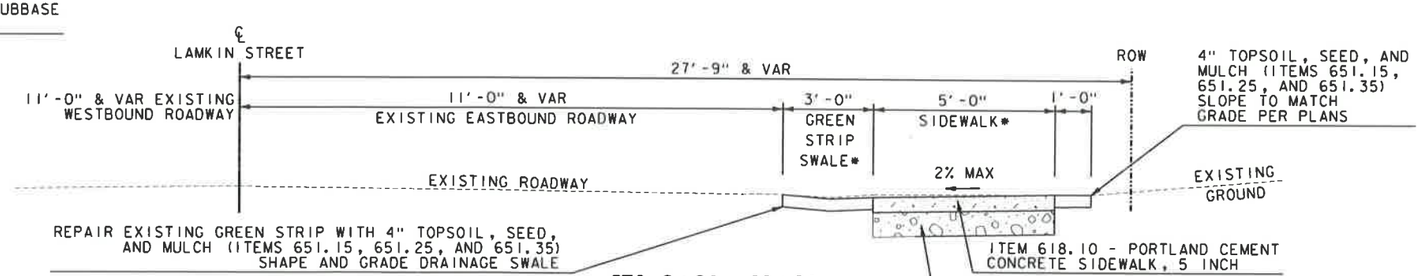
SIDEWALK FLUSH TO PAVEMENT AT LIBRARY PARKING
NOT TO SCALE



ASPHALT ROADWAY SECTION

NOT TO SCALE

ASPHALT IN ROADWAY SECTION SHALL BE PAID FOR AS ITEM 406.25, UNLESS DIRECTED BY ENGINEER. IN AREAS 2' IN WIDTH, WHERE FINE GRADING IS NECESSARY, OR AS DIRECTED BY THE ENGINEER, ASPHALT SHALL BE PAID FOR AS ITEM 900.680 - HAND PLACED BITUMINOUS CONCRETE PAVEMENT.



STA 3+26 – 10+36

3-FOOT GREEN STRIP & SWALE WITH 5-FOOT SIDEWALK IN 3 ROD R.O.W.
NOT TO SCALE

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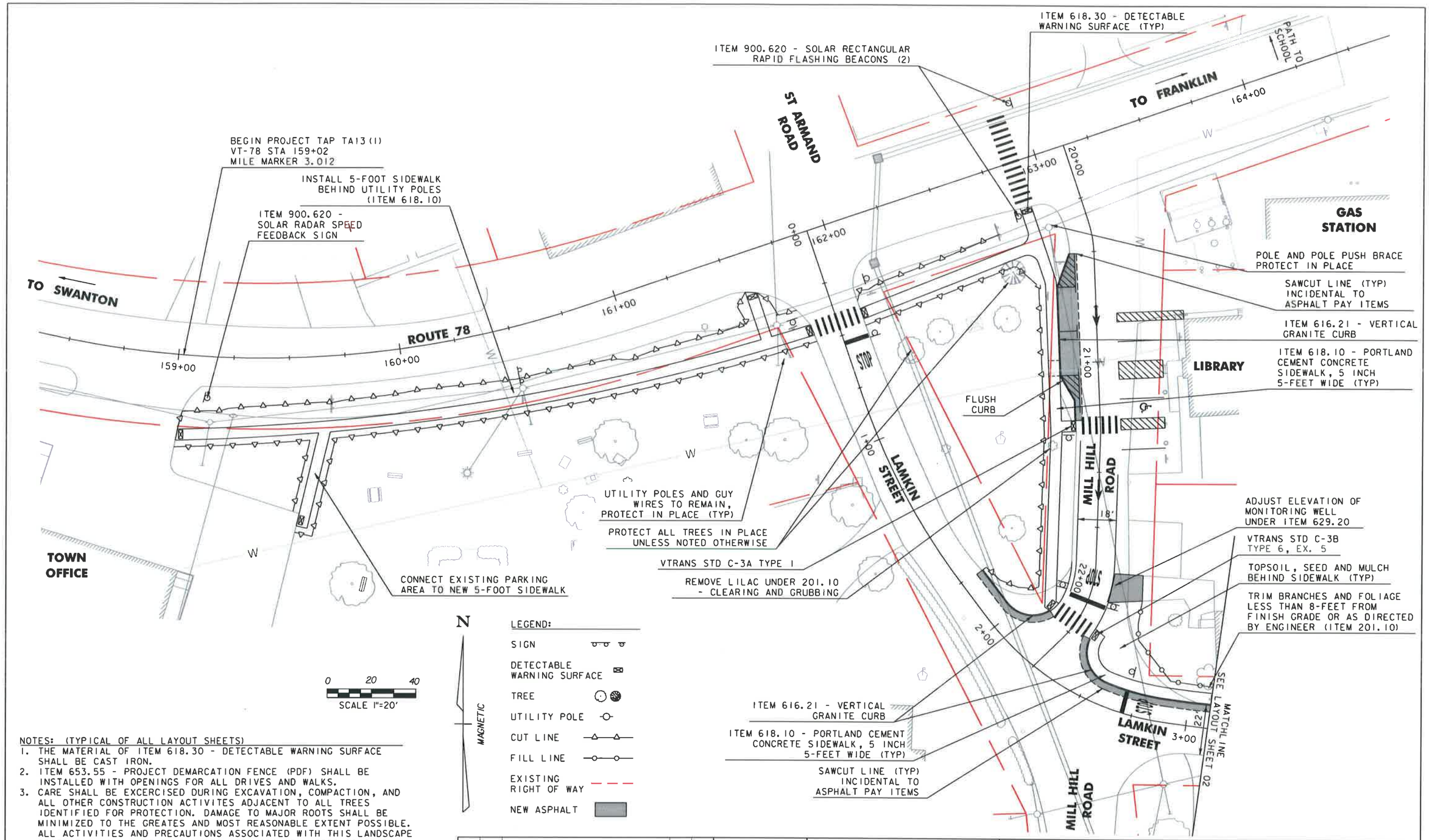
TOWN OF HIGHGATE
2966 VT Rte 78
Highgate Center, VT 05450
(802) 868-4697

PROJECT NAME: HIGHGATE
PROJECT NUMBER: TAP TA13(1)

FILE NAME: 13248NUI.DGN
PROJECT LEADER: CDM
DESIGNED BY: CDM
TYPICAL SECTIONS SHEET

PLOT DATE: 07/12/2016
DRAWN BY: DKG
CHECKED BY: CDM
SHEET 2 OF 16



NOTES: (TYPICAL OF ALL LAYOUT SHEETS)

1. THE MATERIAL OF ITEM 618.30 - DETECTABLE WARNING SURFACE SHALL BE CAST IRON.
2. ITEM 653.55 - PROJECT DEMARCATION FENCE (PDF) SHALL BE INSTALLED WITH OPENINGS FOR ALL DRIVES AND WALKS.
3. CARE SHALL BE EXCERCISED DURING EXCAVATION, COMPACTION, AND ALL OTHER CONSTRUCTION ACTIVITES ADJACENT TO ALL TREES IDENTIFIED FOR PROTECTION. DAMAGE TO MAJOR ROOTS SHALL BE MINIMIZED TO THE GREATES AND MOST REASONABLE EXTENT POSSIBLE. ALL ACTIVITIES AND PRECAUTIONS ASSOCIATED WITH THIS LANDSCAPE PROTECTION SHALL BE PAID UNDER ITEM 656.85 - TREE PROTECTION.
4. UNLESS OTHERWISE NOTED, ALL TREES SHALL REMAIN AND BE PROTECTED IN PLACE UNDER ITEM 656.85. TREES IDENTIFIED FOR REMOVAL SHALL BE PAID FOR INCIDENTAL TO ITEM 201.10 - CLEARING AND GRUBBING.
5. CONTRACTOR SHALL POWER SWEEP THE ASPHALT SURFACES PRIOR TO PAINTING, INCIDENTAL TO PAINT PAY ITEMS.

NO.	DATE	REVISIONS	BY	CK'D

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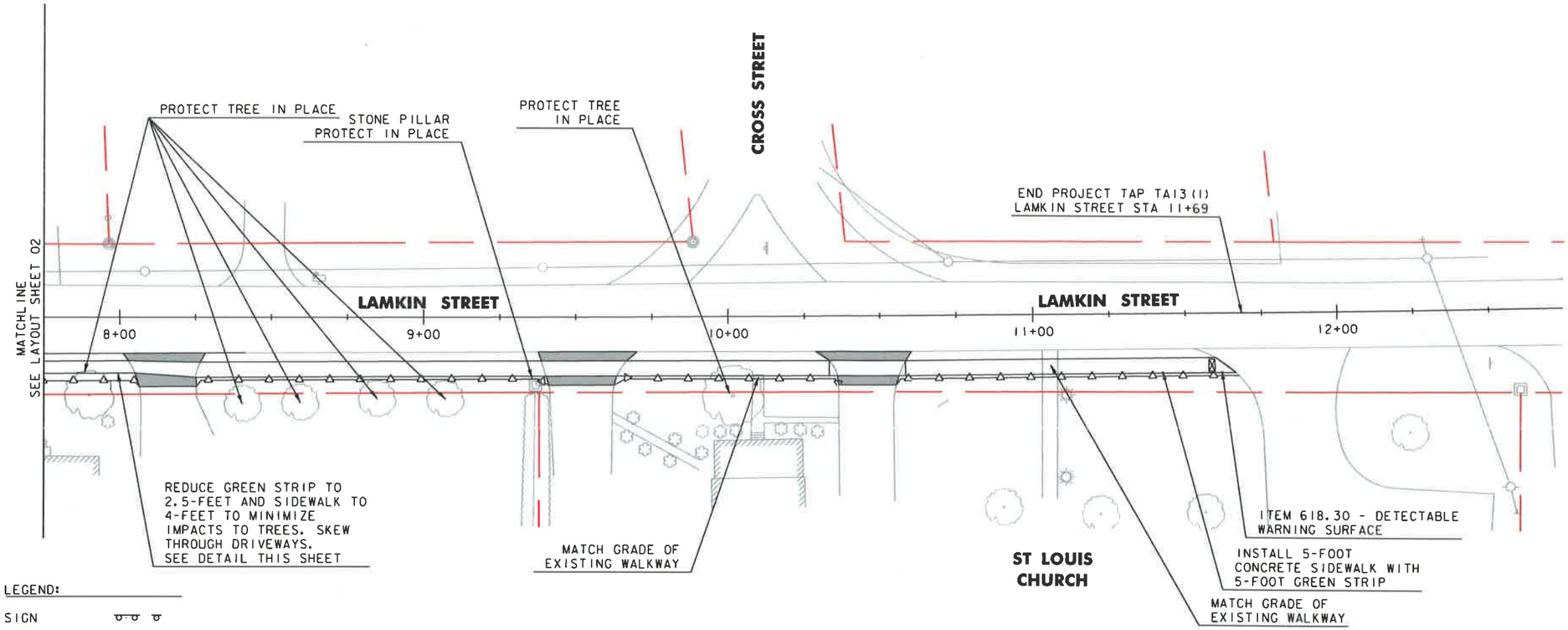
802 383 0118 fax 802 383 0122

TOWN OF HIGHGATE

PROJECT NAME: HIGHGATE
PROJECT NUMBER: TAP TA13(1)

FILE NAME: 13248NUI.DGN
PROJECT LEADER: CDM
DESIGNED BY: CDM
LAYOUT SHEET 01

PLOT DATE: 07/12/2016
DRAWN BY: DKG
CHECKED BY: CDM
SHEET 3 OF 16



LEGEND:

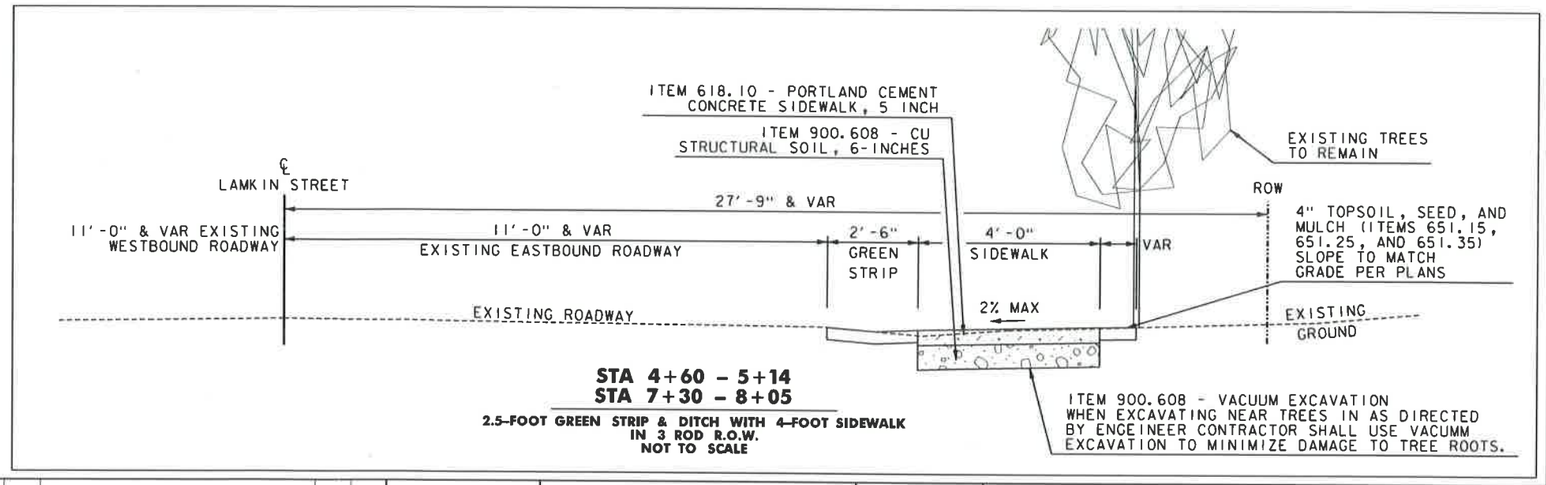
- SIGN
- DETECTABLE WARNING SURFACE
- TREE
- UTILITY POLE
- CUT LINE
- FILL LINE
- EXISTING RIGHT OF WAY
- NEW ASPHALT

N

MAGNETIC

0 20 40

SCALE 1"=20'



STA 4+60 – 5+14
STA 7+30 – 8+05

2.5-FOOT GREEN STRIP & DITCH WITH 4-FOOT SIDEWALK IN 3 ROD R.O.W.
NOT TO SCALE

NOTES: (TYPICAL OF ALL LAYOUT SHEETS)

1. THE MATERIAL OF ITEM 618.30 - DETECTABLE WARNING SURFACE SHALL BE CAST IRON.
2. ITEM 653.55 - PROJECT DEMARCATION FENCE (PDF) SHALL BE INSTALLED WITH OPENINGS FOR ALL DRIVES AND WALKS.
3. CARE SHALL BE EXCERCISED DURING EXCAVATION, COMPACTION, AND ALL OTHER CONSTRUCTION ACTIVITES ADJACENT TO ALL TREES IDENTIFIED FOR PROTECTION. DAMAGE TO MAJOR ROOTS SHALL BE MINIMIZED TO THE GREATES AND MOST REASONABLE EXTENT POSSIBLE. ALL ACTIVITIES AND PRECAUTIONS ASSOCIATED WITH THIS LANDSCAPE PROTECTION SHALL BE PAID UNDER ITEM 656.85 - TREE PROTECTION.
4. UNLESS OTHERWISE NOTED, ALL TREES SHALL REMAIN AND BE PROTECTED IN PLACE UNDER ITEM 656.85. TREES IDENTIFIED FOR REMOVAL SHALL BE PAID FOR INCIDENTAL TO ITEM 201.10 - CLEARING AND GRUBBING.
5. CONTRACTOR SHALL POWER SWEEP THE ASPHALT SURFACES PRIOR TO PAINTING, INCIDENTAL TO PAINT PAY ITEMS.

NO.	DATE	REVISIONS	BY	CK'D

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TOWN OF HIGHGATE

PROJECT NAME: HIGHGATE
PROJECT NUMBER: TAP TA13(1)

FILE NAME: 13248NUI.DGN
PROJECT LEADER: CDM
DESIGNED BY: CDM
LAYOUT SHEET 03

PLOT DATE: 07/12/2016
DRAWN BY: DKG
CHECKED BY: CDM
SHEET 5 OF 16

GENERAL NOTES:

1. ALL SUBBASE SHALL BE PAID FOR UNDER ITEM 301.35 - DENSE GRADED CRUSHED STONE.
2. SUBBASE DEPTHS SHALL BE AT A MINIMUM AS LISTED BELOW FOR EACH SURFACE:

5" CONC. SIDEWALK:	6 INCHES
8" CONC. SIDEWALK:	8 INCHES
CURB:	8 INCHES
ASPHALT ROADWAY:	18 INCHES
ASPHALT WALKWAY:	6 INCHES
COMMERCIAL ASPHALT DRIVEWAY:	18 INCHES
RESIDENTIAL ASPHALT DRIVEWAY:	12 INCHES

3. SAWCUTTING SHALL BE INCIDENTAL TO ITEM 406.25 - BITUMINOUS CONCRETE PAVEMENT AND ITEM 900.675 - HAND PLACED BITUMINOUS CONCRETE PAVEMENT, AS APPROPRIATE.
4. TOPSOIL, SEED, AND MULCH SHALL BE APPLIED TO ALL SURFACES AT THE RATES LISTED IN THE ABOVE SEEDING FORMULA AND PAID FOR UNDER ITEMS 651.15 - SEED, 651.25 - HAY MULCH, AND 651.35 - TOPSOIL.
5. ALL DRIVEWAY ENTRANCES SHALL BE CONSTRUCTED PER VERMONT AGENCY OF TRANSPORTATION (VTRANS) STANDARD C-2A, TYPE 2 UNLESS NOTED OTHERWISE OR AS DIRECTED BY ENGINEER.
6. ALL SIDEWALK RAMPS SHALL BE CONSTRUCTED PER VTRANS STANDARD C-3A, TYPE 1 UNLESS NOTED OTHERWISE OR AS DIRECTED BY ENGINEER.
7. SIDEWALKS CROSSING RESIDENTIAL DRIVEWAYS SHALL CONSIST OF A 5-INCH CONCRETE SECTION. AS NOTED ON PLANS, SIDEWALKS CROSSING COMMERCIAL DRIVEWAYS SHALL CONSIST OF AN 8 INCH SECTION PAID UNDER 618.11 - PORTLAND CEMENT CONCRETE SIDEWALK, 8-INCH.
8. ALL CURB RADII SHALL BE CONSTRUCTED OF SMOOTH CURVE SEGMENTS OF GRANITE.
9. ASPHALT TREATED FELT SHALL BE PLACED ADJACENT TO SIDEWALK WHEN FORMING AROUND EXISTING FEATURES SUCH AS UTILITY POLES, CATCH BASINS, DROP INLETS, AND MANHOLES OR AS DIRECTED BY ENGINEER.
10. REFER TO 2011 VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATION FOR CONSTRUCTION SECTION 656.10 FOR INFORMATION REGARDING TREE PROTECTION. ALL PRACTICES REQUIRED FOR TREE PROTECTION SHALL FOLLOW THESE PROCEDURES AND BE PAID UNDER ITEM 656.85 - TREE PROTECTION.
11. CONTRACTOR SHALL CALL DIGSAFE PRIOR TO ANY EXCAVATION. LOCATION OF UTILITIES SHOWN IN THIS PLAN ARE APPROXIMATE AND MAY BE INCOMPLETE.
12. CONTRACTOR SHALL USE VACUUM EXCAVATION WHEN EXCAVATING NEAR EXISTING TREES, APPROXIMATELY WITHIN 10-FEET OR AS DIRECXTED BY THE ENGINEER. VACUUM EXCAVATION SHALL BE PAID UNDER ITEM 900.608 - VACUUM EXCAVATION.

SEEDING FORMULA
URBAN AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
42.5	34.0	CREEPING RED FESCUE	98	85
10.0	8.0	PERENNIAL RYE GRASS	95	90
42.5	34.0	KENTUCKY BLUE GRASS	85	85
5.0	4.0	ANNUAL RYE GRASS	95	85
100.00	80.0			

SEEDING NOTES

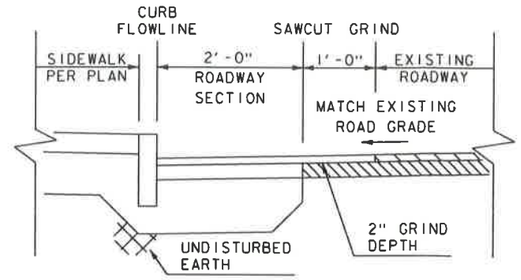
SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

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

HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

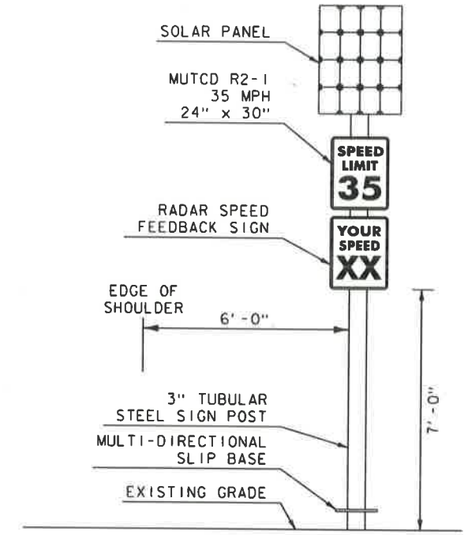
TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET B - 5.



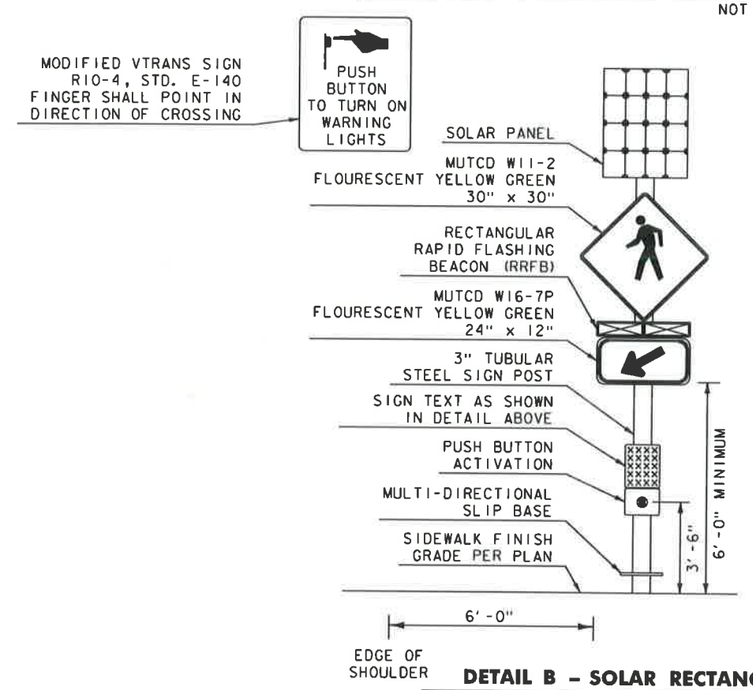
DETAIL A - TYPICAL SAWCUT AND GRINDING SECTION
NOT TO SCALE

1. SAWCUTTING AND GRINDING SHALL BE INCIDENTAL TO ASPHALT ITEMS, INCLUDING ITEM 406.25 - BITUMINOUS CONCRETE PAVEMENT, ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVMENT, OR ITEM 900.680 - HAND PLACED BITUMINOUS CONCRETE PAVEMENT, AS APPROPRIATE.
2. EXISTING PAVMENT SHALL BE SAWCUT STRAIGHT AND PLUMB.
3. GRINDING SHALL TAKE PLACE JUST PRIOR TO PLACEMENT OF ASHALT.
4. COAT SAWCUT AND GROOVED SURFACE FOLLOWING GRINDING WITH EMULSIFIED ASPHALT PRIOR TO PLACING BITUMINOUS MATERIAL PER SPECIFICATION, INCIDENTAL TO ASPHALT ITEM INDICATED IN NUMBER 1 ABOVE, AS APPROPRIATE .



1. ALL SIGNS, POSTS, POST FOUNDATIONS, LIGHTS, SOLAR PANELS, WIRING, AND ASSOCIATED INSTALLATION HARDWIRE SHALL BE INCIDENTAL TO ITEM 900.620 - SOLAR POWERED RSFS.
2. TUBULAR STEEL SIGN POST, FOUNDATION, AND SLIP BASE SHALL BE IN CONFORMANCE WITH VTRANS STANDARD E-163.
3. RSFS AND SOLAR PANEL SHALL BE INSTALLED PER MANUFACTURERS RECOMENDATION.
4. ALL SIGNS, BEACONS, AND FLASHING PATTERNS SHALL CONFORM TO THE LATEST MUTCD STANDARDS, SECTION 2B.13.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF RSFS ASSEMBLY PRIOR TO INSTALLATION.
6. SIGN SHALL BE PLACED WTHIN THE ROW AND IN ACCORDANCE WITH VTRANS STANDARD E-121.
7. MUTCD S4-3P SHALL BE FLOURESCENT YELLOW-GREEN WITH TYPE 7, 8, OR 9 RETROREFLECTIVE SHEETING.

DETAIL C - SOLAR RADAR SPEED FEEDBACK SIGN
NOT TO SCALE



1. ALL SIGNS, POSTS, POST FOUNDATIONS, LIGHTS, SOLAR PANELS, WIRING, AND ASSOCIATED INSTALLATION HARDWIRE SHALL BE INCIDENTAL TO ITEM 900.620 - SOLAR POWERED RRFB.
2. TUBULAR STEEL SIGN POST, FOUNDATION, AND SLIP BASE SHALL BE IN CONFORMANCE WITH VTRANS STANDARD E-163.
3. RRFB, SOLAR PANEL, AND PUSH BUTTON ASSEMBLY SHALL BE INSTALLED PER MANUFACTURERS RECOMENDATION. PUSH BUTTON ASSEMBLY SHALL MEET ALL APPLICABLE ADA ACCESSIBILITY GUIDELINES.
4. A SMALL LIGHT DIRECTED AT AND VISIBLE TO THE PESDESTRIAN ON THE PUSH BUTTON ASSEMBLY SHALL ILLUMINATE TO INDICATE THAT THE RRFB IS FLASHING.
5. FLASHING SEQUENCE SHALL BE WIG-WAG. RRFB SHALL FLASH FOR 15 SECONDS UPON ACTIVATION.
6. ALL SIGNS, BEACONS, AND FLASHING PATTERNS SHALL CONFORM TO THE LATEST MUTCD STANDARDS.
7. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF RRFB ASSEMBLY PRIOR TO INSTALLATION.
8. SIGN SHALL BE PLACED WITHIIN THE ROW AND IN ACCORDANCE WITH VTRANS STANDARD E-121.
9. MUTCD W11-2 AND W16-7P SHALL BE FLOURESCENT YELLOW-GREEN WITH TYPE 7, 8, OR 9 RETROREFLECTIVE SHEETING.

DETAIL B - SOLAR RECTANGULAR RAPID FLASHING BEACON ASSEMBLY
NOT TO SCALE

NO.	DATE	REVISIONS	BY	CK'D

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TOWN OF HIGHGATE
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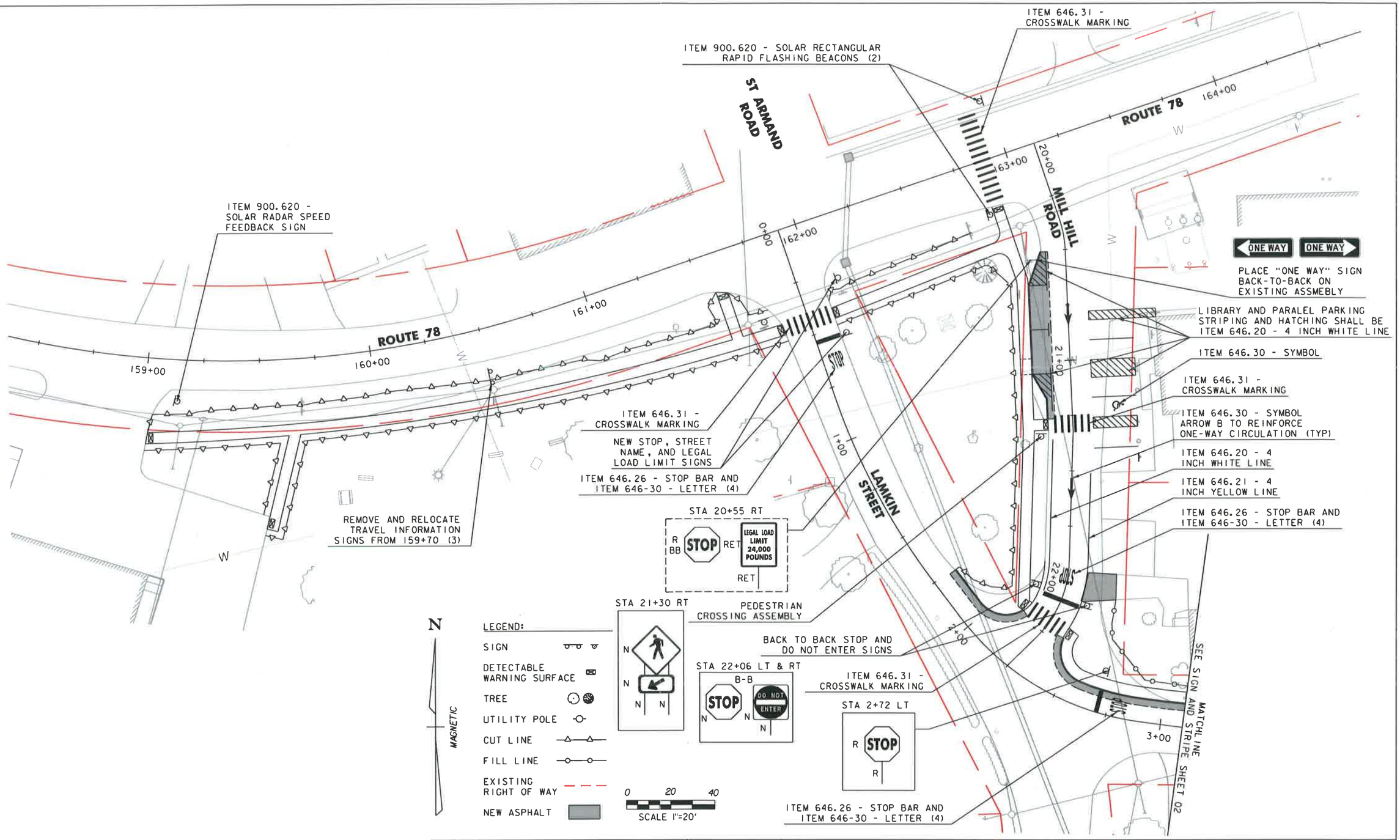
Highgate Center, VT 05459
(802) 868-4697

PROJECT NAME: HIGHGATE
PROJECT NUMBER: TAP TA13(1)

FILE NAME: 13248NUI.DGN
PROJECT LEADER: CDM
DESIGNED BY: CDM
DETAIL SHEET

PLOT DATE: 07/12/2016
DRAWN BY: DKG
CHECKED BY: CDM
SHEET 6 OF 16



NO.	DATE	REVISIONS	BY	CK'D

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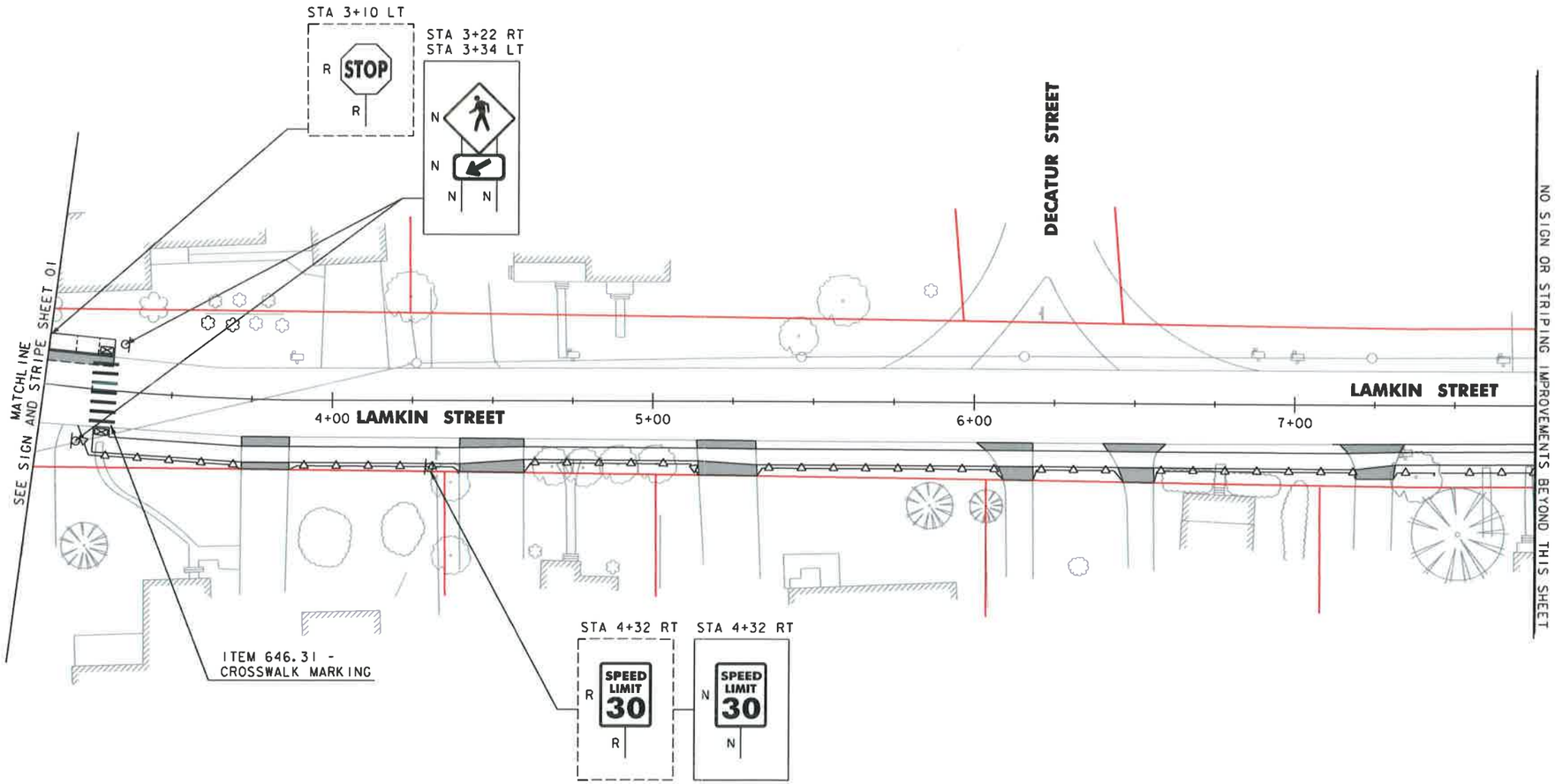
180 Battery Street, Suite 350 Burlington Vermont 05401
802 383 0118 fax 802 383 0122

HIGHGATE TOWN OFFICES
TOWN OF HIGHGATE

PROJECT NAME: HIGHGATE
PROJECT NUMBER: TAP TA13(1)

FILE NAME: 13248NU1.DGN
PROJECT LEADER: CDM
DESIGNED BY: CDM
SIGN AND STRIP SHEET 01

PLOT DATE: 07/12/2016
DRAWN BY: DKG
CHECKED BY: CDM
SHEET 7 OF 16



LEGEND:

- SIGN
- DETECTABLE WARNING SURFACE
- TREE
- UTILITY POLE
- CUT LINE
- FILL LINE
- EXISTING RIGHT OF WAY
- NEW ASPHALT

N

MAGNETIC

0 20 40

SCALE 1"=20'

NO.	DATE	REVISIONS	BY	CK'D

RSG

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802 383 0118 fax 802 383 0122 www.rsg.inc

TOWN OF HIGHGATE
2996 VT Rte 78
Highgate Center, VT 05450
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PROJECT NAME: HIGHGATE
PROJECT NUMBER: TAP TA13(1)

FILE NAME: 13248NU1.DGN
PROJECT LEADER: CDM
DESIGNED BY: CDM
SIGN AND STRIP SHEET 02

PLOT DATE: 07/12/2016
DRAWN BY: DKG
CHECKED BY: CDM
SHEET 8 OF 16

TRAFFIC SIGN SUMMARY SHEET

MILE MARKER, STATION OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EACH	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NO. OF POST	FLANGED CHANNEL (LB / FT) 1.12	2.00	3.00	SQUARE STEEL (in) (LB / FT) 1.75	2.00	2.50	ANCHOR	SLEEVE	NEW SIGN POSTS TUBULAR ALUMINUM Ø (IN) (LB / FT) 3.00	4.00	4.0 MOD	FOUNDATION	TUBULAR STEEL Ø (IN) (LB / FT) 3.00	3.50	4.00	5.00	W-SHAPE STEEL FTG SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STANDARD SHEET NUMBER
																				1.30	1.70	1.70		7.60	9.00	10.80	14.60								
OPTION ITEMS																																			
159+14 RT	SOLAR RADAR FEEDBACK SIGN	1																															REFER TO DETAIL C SIGN, SOLAR PANEL, LED SIGN, POST, FOUNDATION, EXCAVATION, SURFACE RESTORATION AND ALL NECESSARY ITEMS FOR THE COMPLETE ASSEMBLY SHALL BE INCIDENTAL TO BID ITEM	XXX	
160+50 RT	RELOCATED TRAVEL INFORMATION SIGNS	3														30.0		2.0	2.0														SALVAGE SIGNS FROM STATION 159+70 RT PLACE SIGNS ON NEW POSTS		
161+60 LT & RT	W11-2 DIAMOND PED	2	24.0	24.0	8.0											30.0		2.0	2.0														PED CROSSING ASSEMBLY, CO-LOCATED WTH DOWNWARD POINTING ARROW		
162+85 LT & RT	SOLAR RECTANGULAR RAPID FLASHING BEACONS	2																															REFER TO DETAIL B SIGN, SOLAR PANEL, LED SIGN, POST, FOUNDATION, EXCAVATION, SURFACE RESTORATION AND ALL NECESSARY ITEMS FOR THE COMPLETE ASSEMBLY SHALL BE INCIDENTAL TO BID ITEM	XXX	
161+75 RT	VR-017 "LEGAL LOAD 24,000 POUNDS"	1	24.0	36.0	6.0											15.0		1.0	1.0														LEGAL LOAD RESTRICTION ASSEMBLY, LAMKIN STREET		
162+05 RT	STREET NAME SIGN "MILL HILL RD"	1	24.0	9.0	1.5											12.0		1.0	1.0																
162+05 RT	R1-1 "STOP"	1	30.0	30.0	6.3											15.0		1.0	1.0														STOP SIGN ASSEMBLY		
162+95 RT	R6-1R & R6-1L BACK-TO-BACK	2	36.0	12.0	6.0																												REMOVE NB STOP SIGN FROM ASSEMBLY, ADD B-B ONE WAY SIGNS		
21+30 RT	W11-2 DIAMOND PED	1	24.0	24.0	4.0											15.0		1.0	1.0														PED CROSSING ASSEMBLY, CO-LOCATED WTH DOWNWARD POINTING ARROW		
21+30 RT	W16-7p DOWNWARD POINT ARROW	1	24.0	12.0	2.0																												PED CROSSING ASSEMBLY, CO-LOCATED WTH DIAMOND PED		
22+06 LT & RT	R1-1 "STOP"	2	30.0	30.0	12.5											30.0		2.0	2.0														STOP SIGN ASSEMBLY		
22+06 LT & RT	R5-1 "DO NOT ENTER"	2	30.0	30.0	12.5																												CO-LOCATED BACK TO BACK WITH STOP SIGNS		
2+72 LT	R1-1 "STOP"	1	30.0	30.0	6.3											15.0		1.0	1.0														STOP SIGN ASSEMBLY		
3+30 LT & RT	W11-2 DIAMOND PED	2	24.0	24.0	8.0											30.0		2.0	2.0														PED CROSSING ASSEMBLY, CO-LOCATED WTH DOWNWARD POINTING ARROW		
3+30 LT & RT	W16-7p DOWNWARD POINT ARROW	2	24.0	12.0	4.0																												PED CROSSING ASSEMBLY, CO-LOCATED WTH DIAMOND PED		
4+32 RT	R2-1 "SPEED LIMIT 25"	1	24.0	30.0	5.0											15.0		1.0	1.0														PED CROSSING ASSEMBLY, CO-LOCATED WTH DIAMOND PED		
												FT	FT	FT	FT	FT	FT	XXXXX XXXXX XXXXX XXXXX	EA	LB	LB	LB		LB	LB	LB	LB								
																207.			14.																	
	TOTALS				SF 82.	SF	EA.	SF	XXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX			FT			FT 221.					LB			EA.	LB				EA.	EA.	LB					

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."

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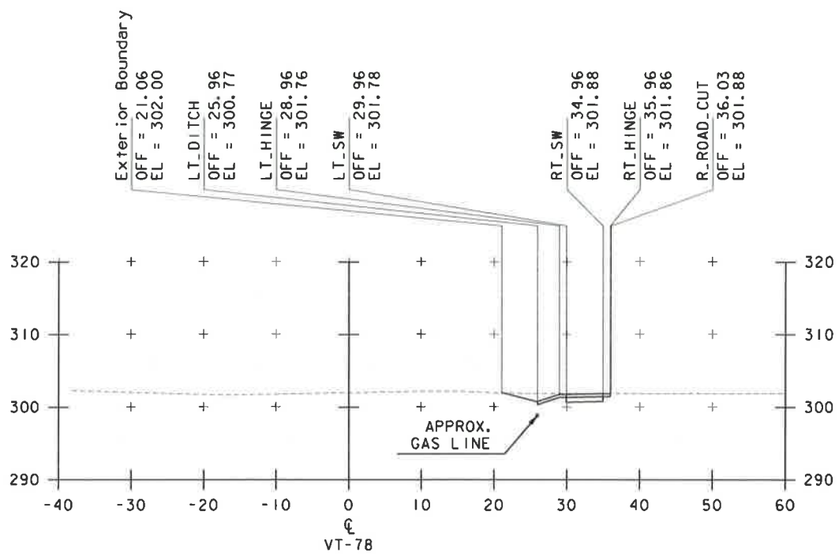

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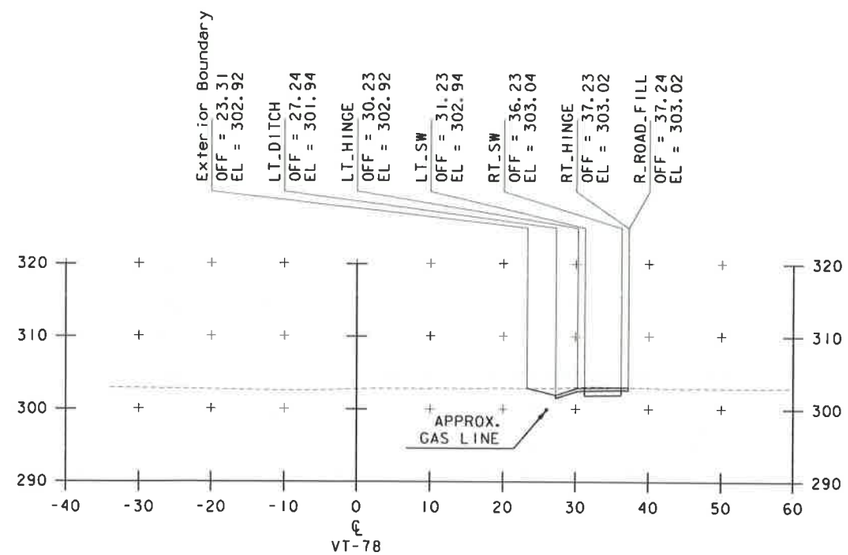

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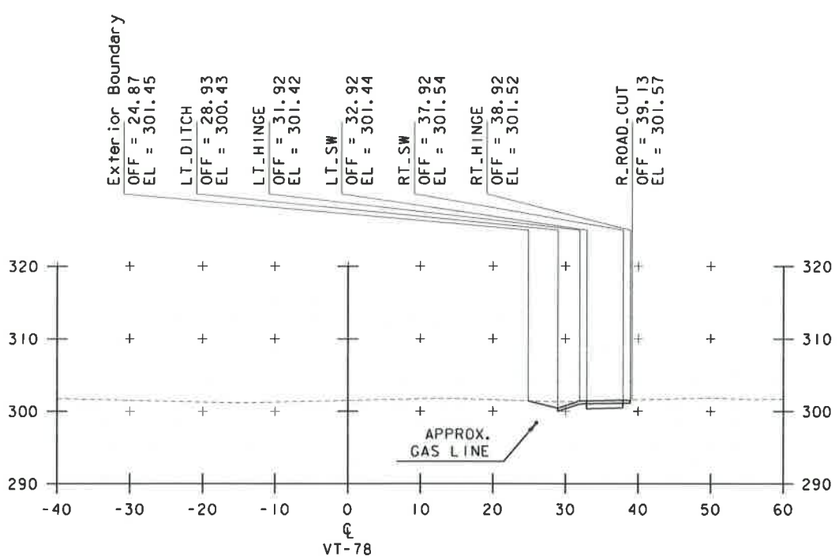

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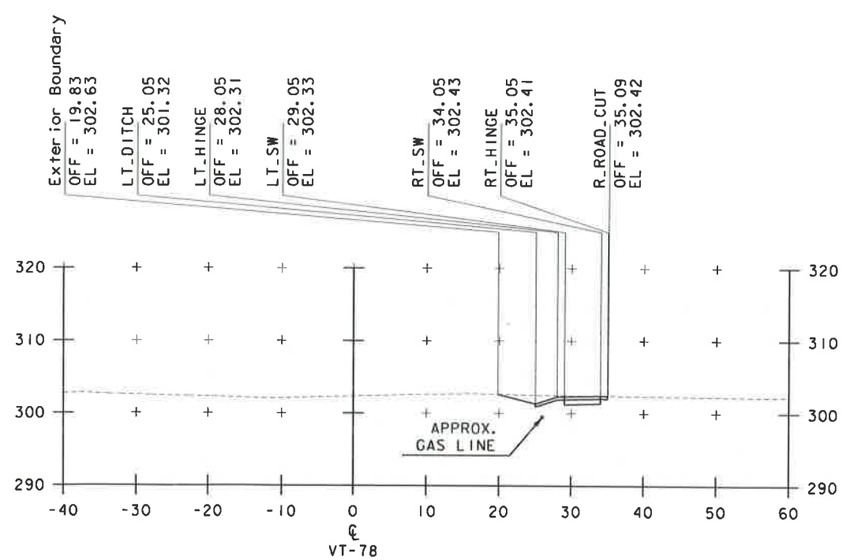

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PROJECT NAME: HIGHGATE
PROJECT NUMBER: TAP TA13(1)

FILE NAME: 13248NUI.DGN
PROJECT LEADER: CDM
DESIGNED BY: CDM
CROSS SECTION SHEET 1

PLOT DATE: 07/12/2016
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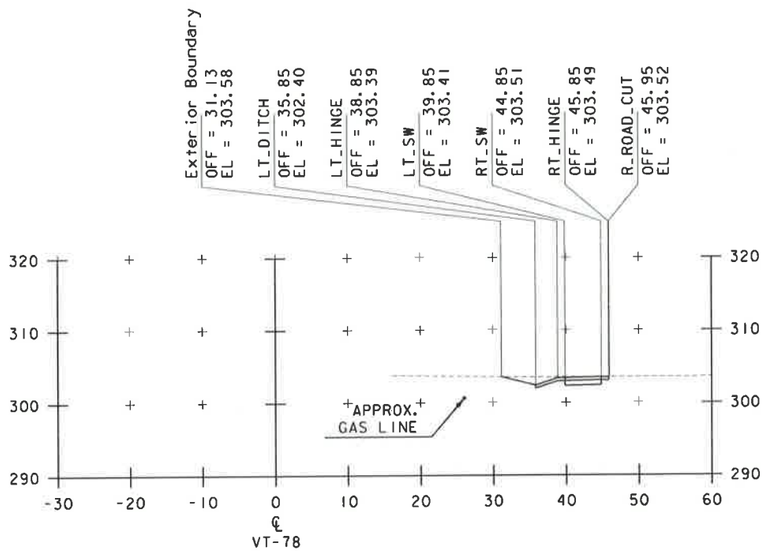
SHEET 10 OF 16



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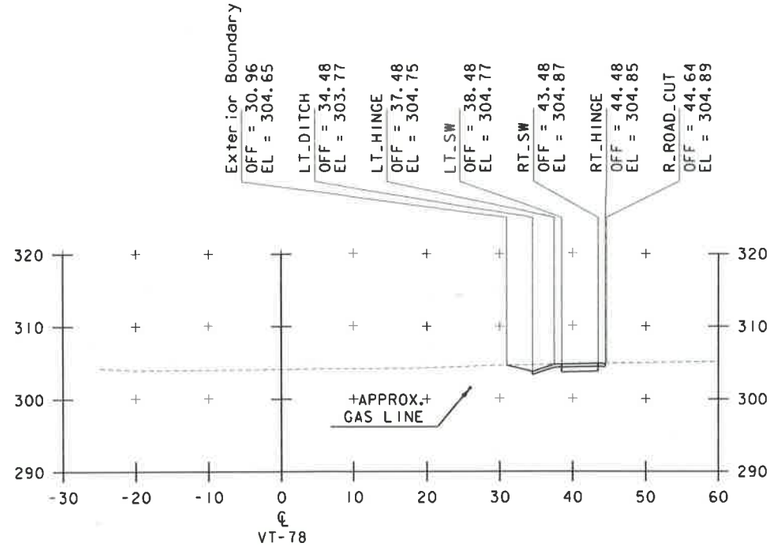

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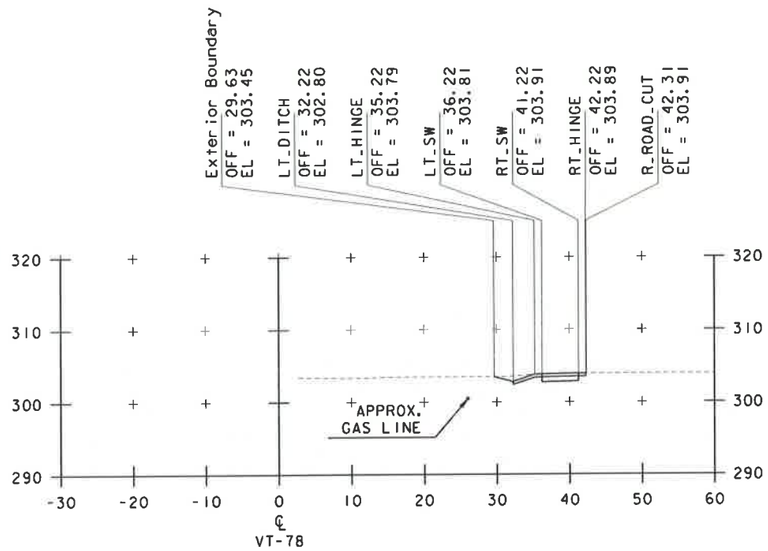

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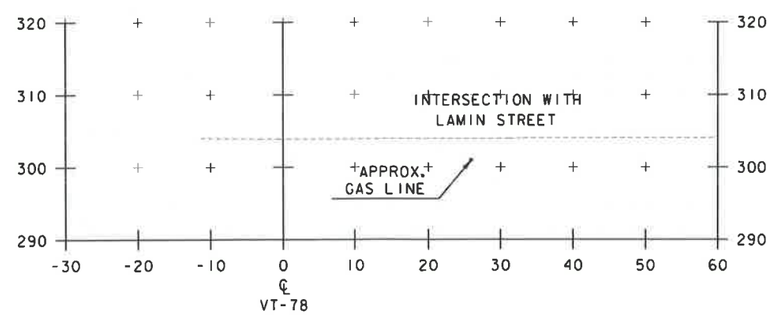

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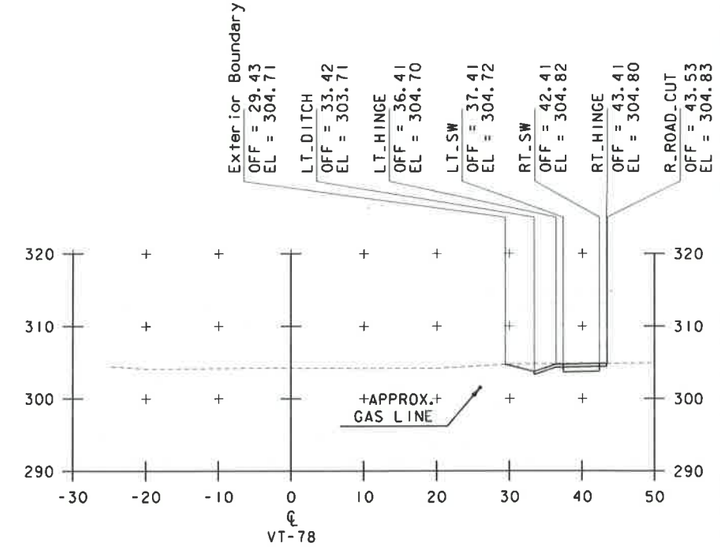

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FILE NAME: 13248NUI.DGN
PROJECT LEADER: CDM
DESIGNED BY: CDM
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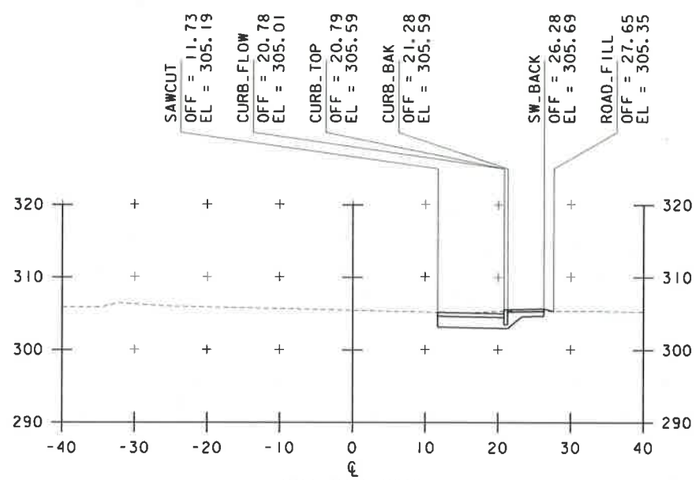
SHEET 11 OF 16



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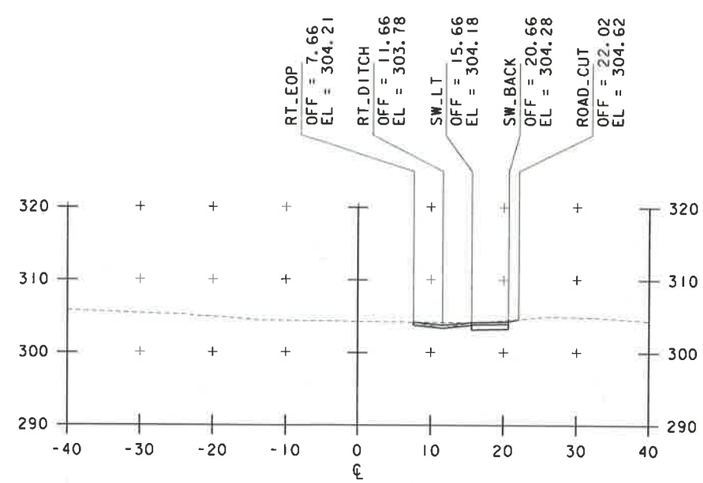

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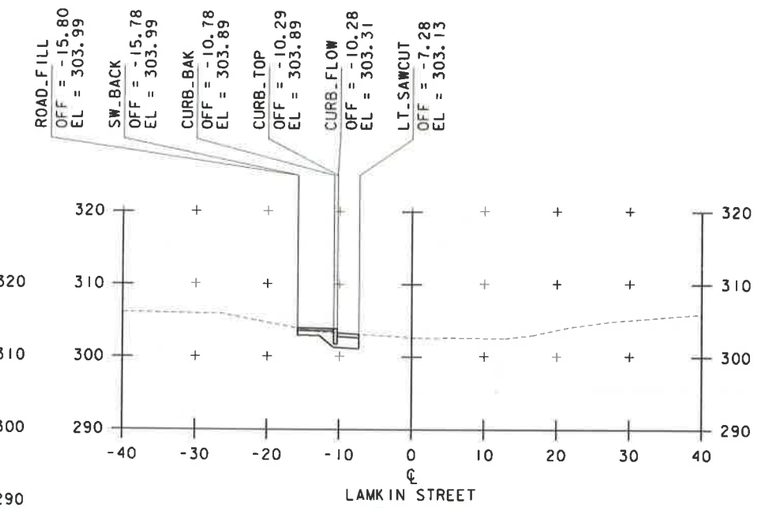

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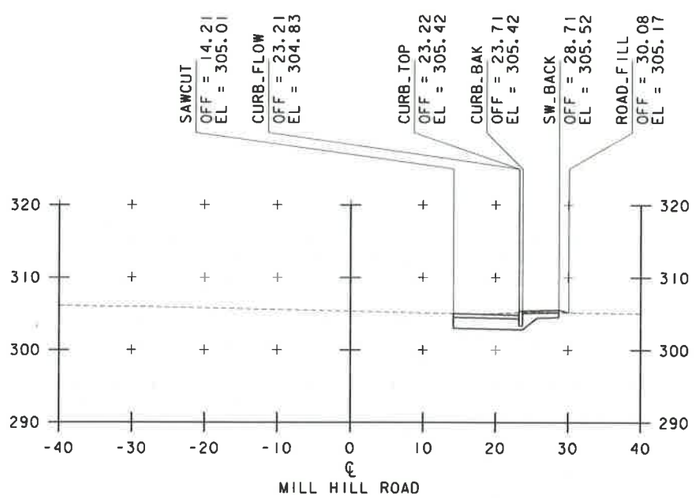

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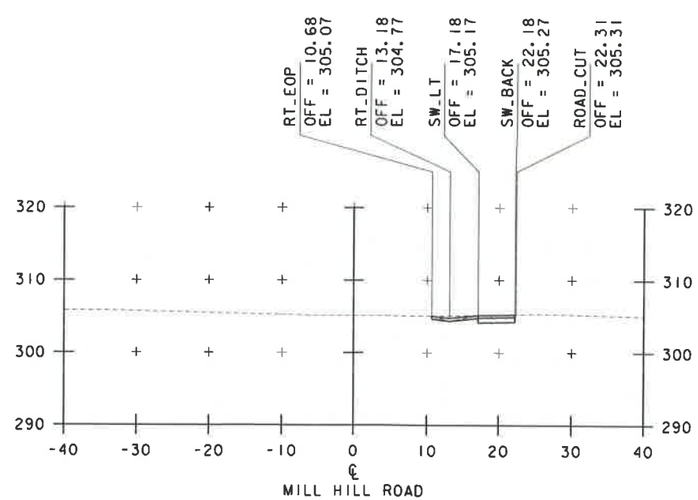

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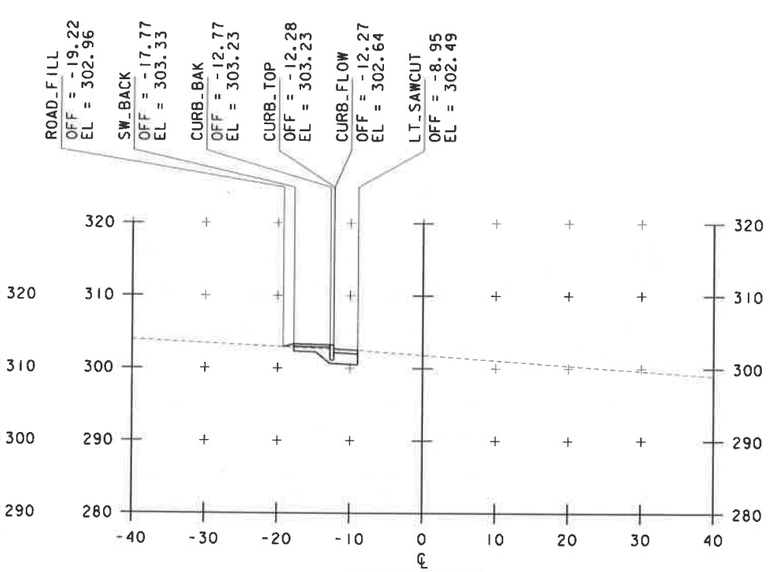

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FILE NAME: 13248NUI.DGN
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DESIGNED BY: CDM
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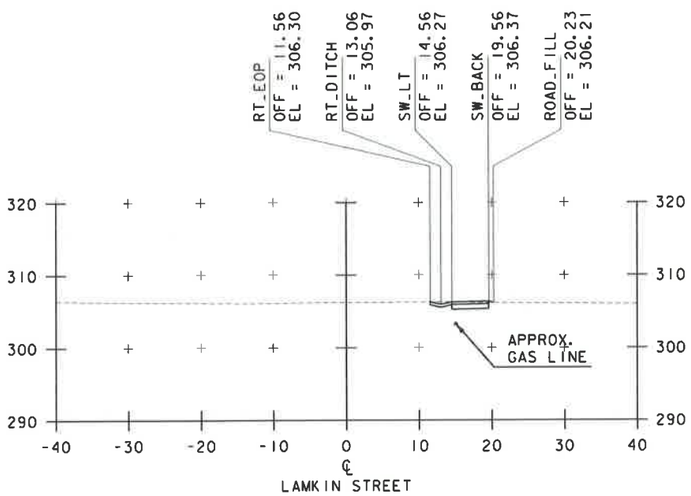
SHEET 12 OF 16



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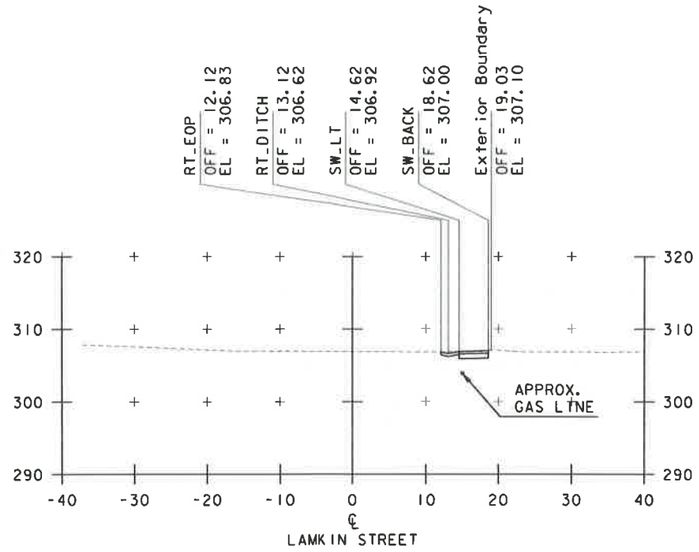

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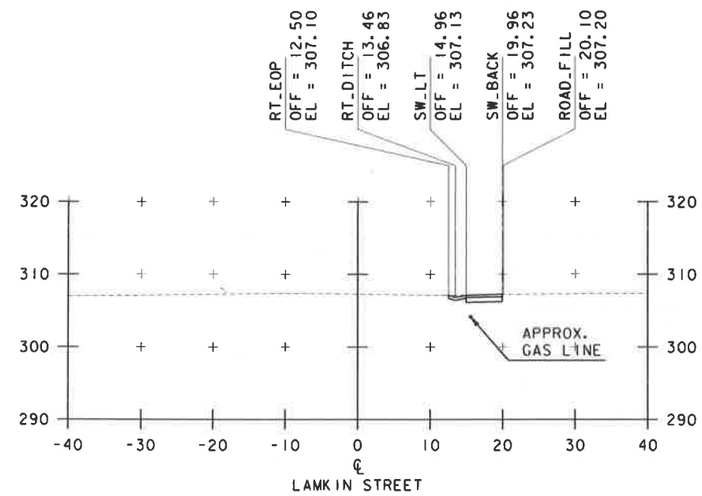

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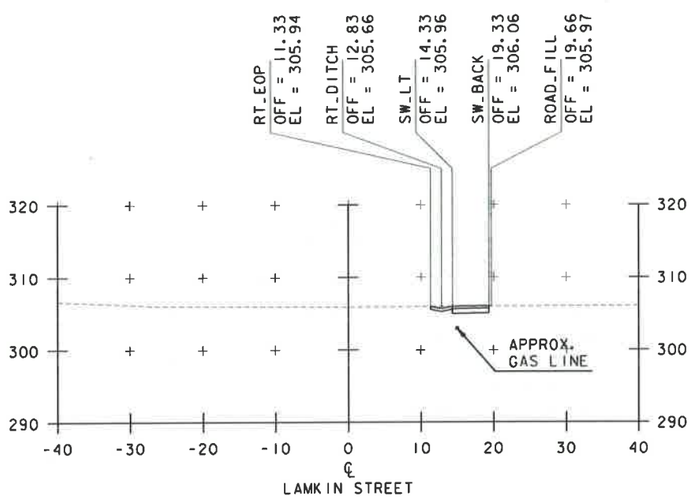

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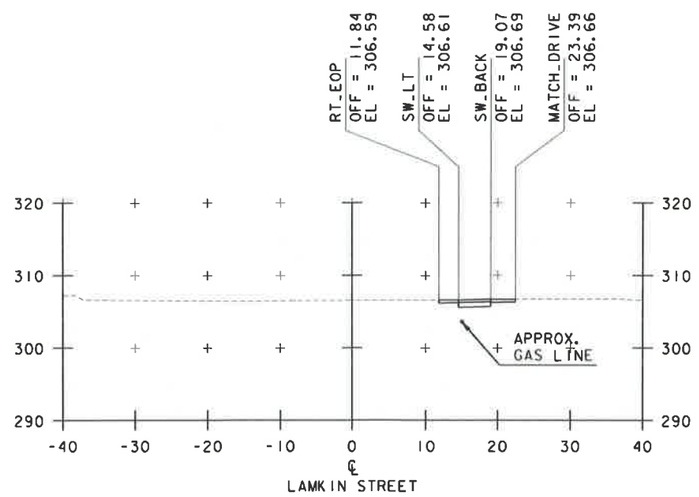

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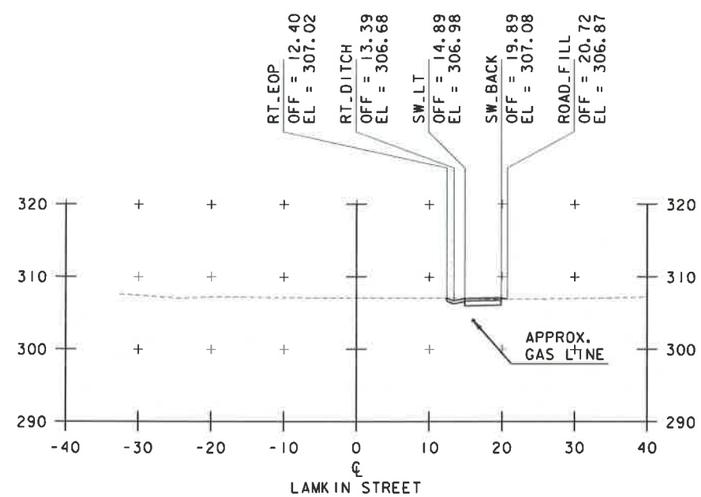

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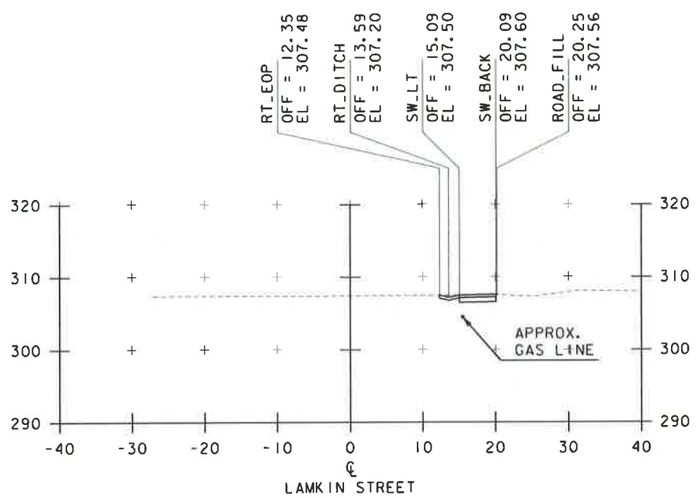
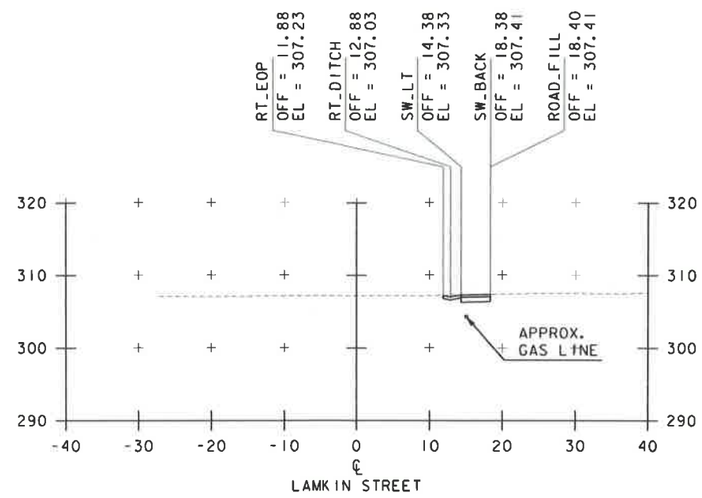
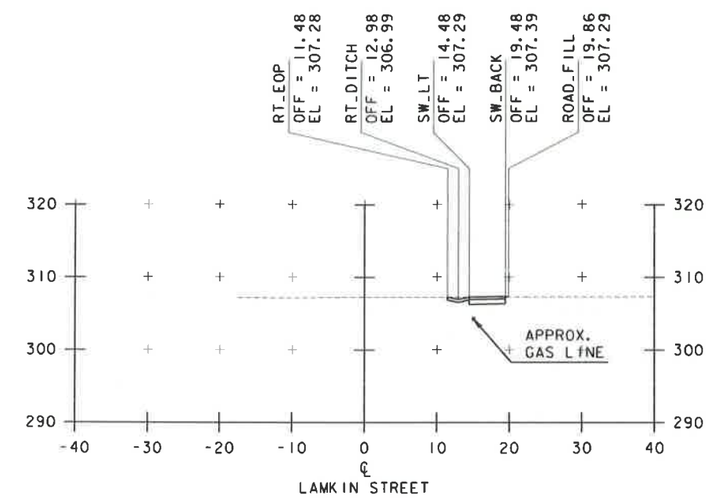
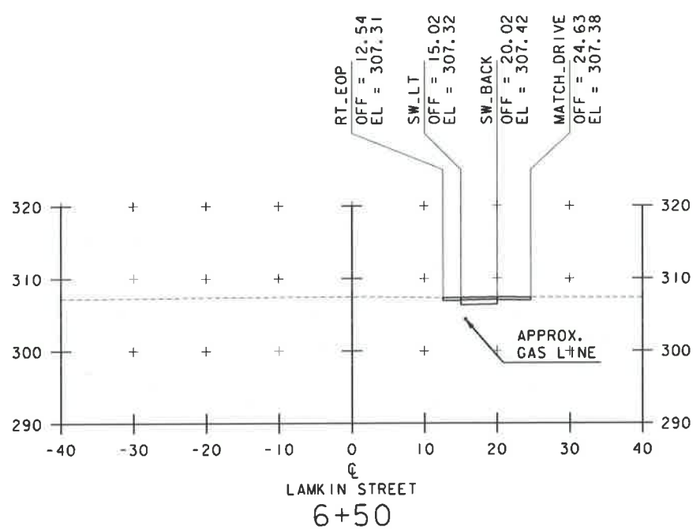
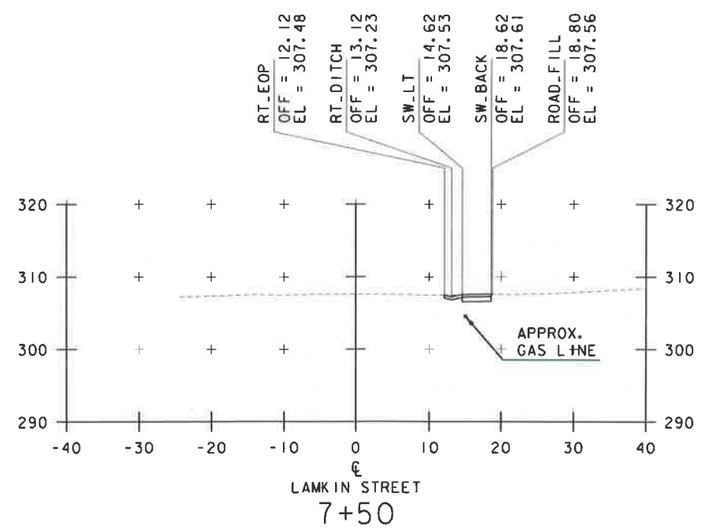
SHEET 13 OF 16

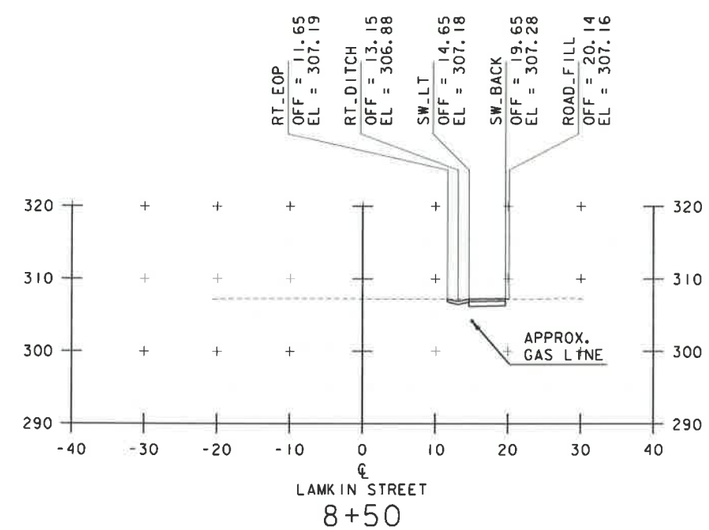












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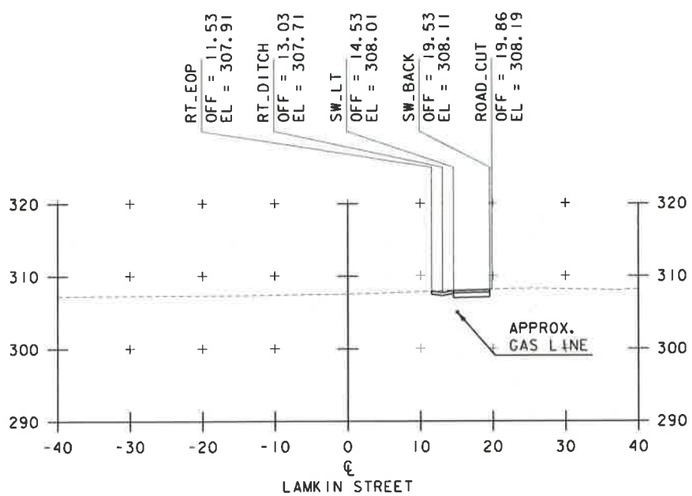
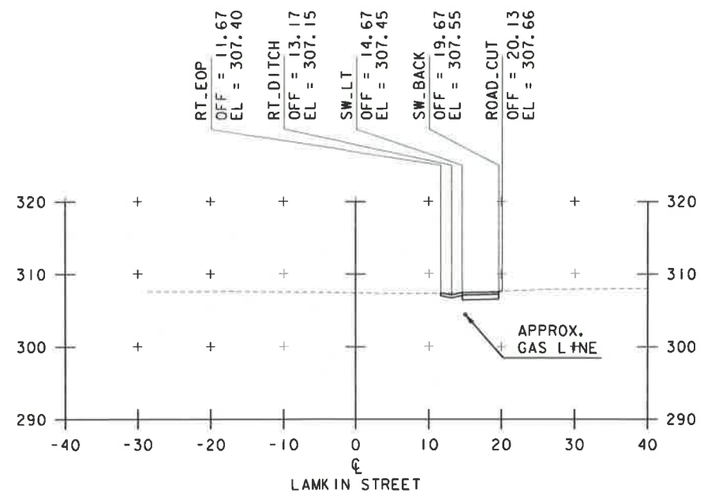
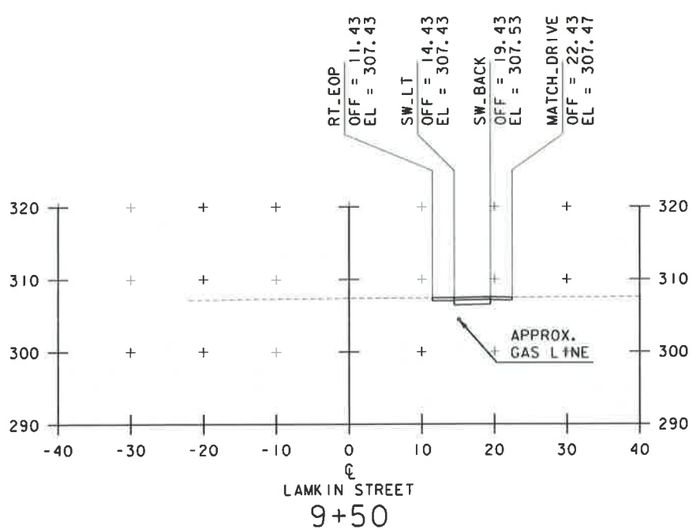
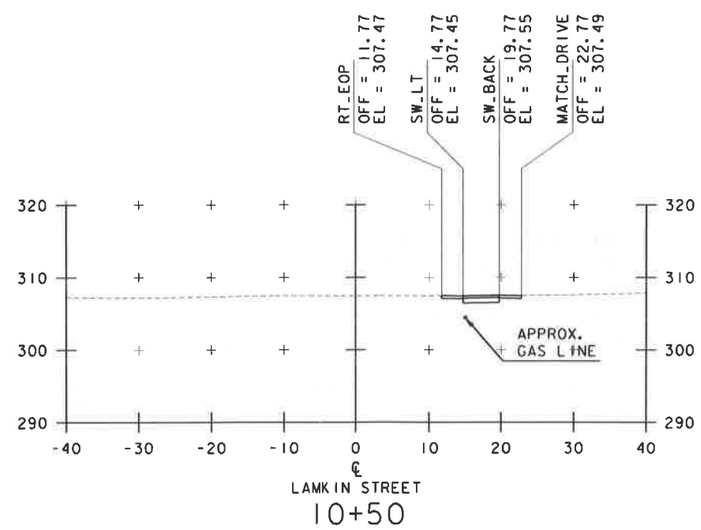
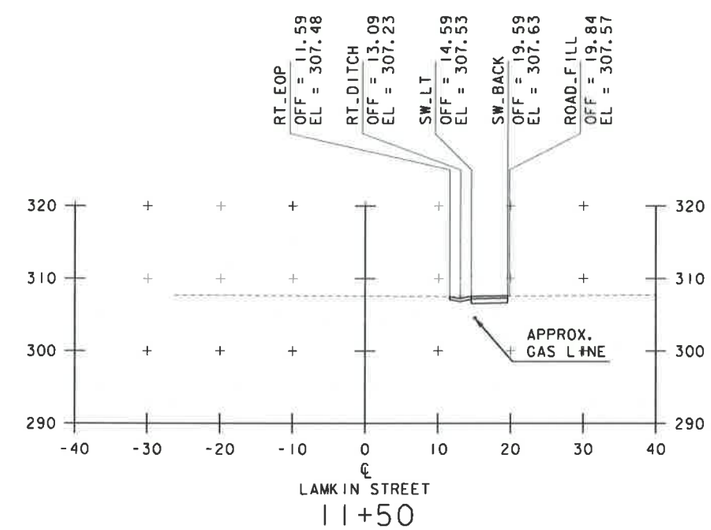
SHEET 14 OF 16











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SHEET 15 OF 16

Table 6H-2. Meaning of Symbols on Typical Application Diagrams

Arrow board	Shadow vehicle
Arrow board support or trailer (shown facing down)	Sign (shown facing left)
Changeable message sign or support trailer	Surveys
Channelizing device	Temporary barrier
Crash cushion	Temporary barrier with warning light
Direction of temporary traffic detour	Traffic or pedestrian signal
Direction of traffic	Truck mounted attenuator
Flagger	Type 3 barricade
High level warning device (Flag line)	Warning light
Longitudinal channelizing device	Work space
Luminaire	Work vehicle
Pavement markings that should be removed for a long term project	

Table 6H-3. Meaning of Letter Codes on Typical Application Diagrams

Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)*	100 feet	100 feet	100 feet
Urban (high speed)*	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

* Speed category to be determined by highway agency

** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-40. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is farthest upstream from the TTC zone.)

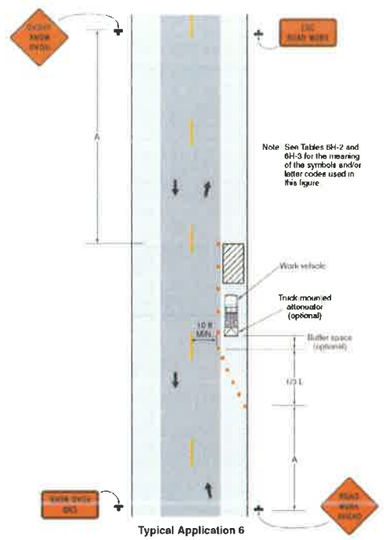
Table 6H-4. Formulas for Determining Taper Length

Speed (S)	Taper Length (L) in feet
40 mph or less	$L = \frac{WS^2}{60}$
45 mph or more	$L = WS$

Where: L = taper length in feet
W = width of offset in feet
S = posted speed limit, or off peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

Figure 6H-1. Work Beyond the Shoulder (TA-1)

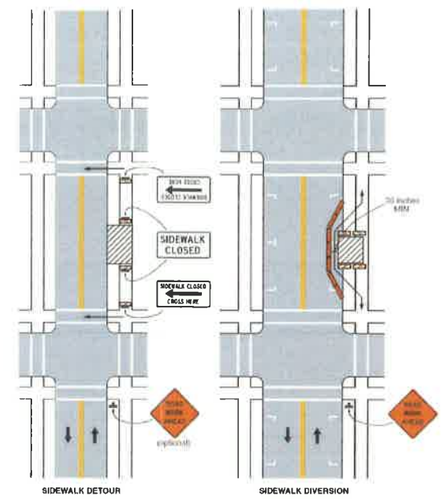
Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)



Typical Application 6

Figure 6H-10. Lane Closure on a Two-Lane Road Using Flaggers (TA-10)

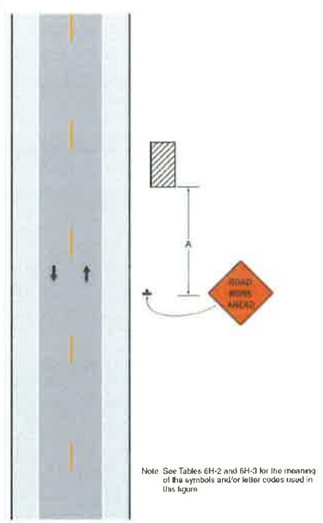
Figure 6H-28. Sidewalk Detour or Diversion (TA-28)



Typical Application 28

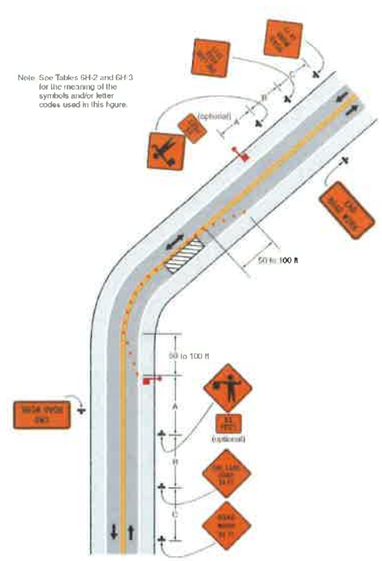
Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Figure 6H-29. Crosswalk Closures and Pedestrian Detours (TA-29)

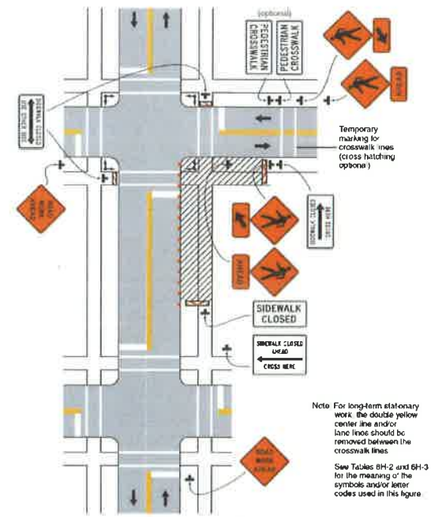


Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Typical Application 1



Typical Application 10



Note: For long-term stationary work, the double yellow center line and/or lane lines should be removed between the crosswalk lines.

See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

Typical Application 29

TRAFFIC CONTROL NOTES:

1. THE FOLLOWING TRAFFIC CONTROL NOTES DO NOT CONSTITUTE A TRAFFIC CONTROL PLAN. AN ACTUAL TRAFFIC CONTROL PLAN MUST BE PREPARED AND SUBMITTED TO THE RESIDENT ENGINEER FOR APPROVAL. THIS PLAN PREPARED BY THE CONTRACTOR SHALL BE UPDATED AS CONSTRUCTION PROGRESSES. THE OBJECTIVE OF THE TRAFFIC CONTROL PLAN SHALL BE TO MINIMIZE IMPACT ON THE VEHICLE, BICYCLE AND PEDESTRIAN TRAFFIC FLOW WHILE PROVIDING A SAFE PASSAGE FOR ALL ROADWAY, SIDEWALK, AND RECREATIONAL USERS DURING AND AFTER CONSTRUCTION WORK HOURS.

2. THE FOLLOWING TRAFFIC CONTROL INFORMATION IS INTENDED TO BE A GENERAL OUTLINE FOR HOW THE WORK MAY PROCEED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SPECIFIC DETAILS TO ADDRESS SPECIFIC SITUATIONS IN THE TRAFFIC CONTROL PLAN WHICH IS TO BE SUBMITTED FOR APPROVAL PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. THIS RESPONSIBILITY INCLUDES PROVIDING A PLAN DETAILING THE USE AND PLACEMENT OF SIGNS, CHANNELING DEVICES, FLAGGERS, UNIFORMED TRAFFIC OFFICERS (UTO'S), AND OTHER TRAFFIC CONTROL DEVICES DURING LANE CLOSURES. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL NOT BE PAID SEPARATELY BUT SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".

3. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION APPROACH SIGNING PACKAGE IN ACCORDANCE WITH THE LATEST REVISION OF THE 2009 EDITION OF THE MUTCD AND THE APPLICABLE VTRANS T-SERIES STANDARD DRAWINGS. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".

4. ALL TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THESE PROJECT PLANS, APPLICABLE VTRANS T-SERIES STANDARD DRAWINGS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), DATED 2009, AND ITS LATEST REVISIONS, OR AS DIRECTED BY THE RESIDENT ENGINEER.

5. THE CONTRACTOR MUST PROVIDE ACCESS THROUGH THE WORK ZONE FOR EMERGENCY VEHICLES AT ALL TIMES. SIGNS SHALL ONLY BE VISIBLE TO MOTORIST AT THE TIMES WHEN THE MESSAGE IS PERTINENT, I.E. A "FLAGGER AHEAD" SIGN SHALL ONLY BE VISIBLE TO MOTORIST WHEN THE FLAGGER IS ACTUALLY PRESENT PERFORMING THEIR DUTIES.

6. A MINIMUM LANE WIDTH OF 10 FEET SHALL BE MAINTAINED.

7. MAINTAIN ACCESS TO ALL BUILDINGS AND RECREATIONAL FACILITIES AT ALL TIMES FOR EMERGENCY VEHICLES. ACCESS MAY BE INTERRUPTED FOR A SHORT DURATION (A FEW HOURS) GIVEN ADEQUATE NOTICE TO THE PROPERTY OWNERS. ALL ACCESS INTERRUPTIONS WILL BE COORDINATED WITH THE RESIDENT ENGINEER AND OWNER.

8. TRAFFIC SHALL NOT BE CHANGED FROM ONE TRAFFIC PATTERN TO THE NEXT TRAFFIC PATTERN UNTIL ALL TEMPORARY MARKINGS, SIGNING AND SIGNAL WORK ARE COMPLETED. ANY CONFLICTING MARKINGS SHALL BE REMOVED.

9. CONSTRUCTION OPERATIONS SHALL BE ADJUSTED OR SUSPENDED DURING SPECIAL EVENTS AS DETERMINED BY THE RESIDENT ENGINEER. SPECIAL EVENTS WILL BE COMMUNICATED TO THE CONTRACTOR BY THE TOWN THROUGH THE RESIDENT ENGINEER.

10. ALL PERMANENT SIGNS WHICH CONFLICT WITH TEMPORARY TRAFFIC CONTROL MUST BE COMPLETELY COVERED.

11. PROVIDE ACCESSIBLE PEDESTRIAN ROUTES FOR ALL SIDEWALKS CLOSED WITHOUT A DETOUR. ALL ACCESIBLE ROUTES SHALL COMPLY WITH THE LATEST PROWAG, ADAAG AND MUTCD GUIDELINES. ACCESSIBLE ROUTES SHALL BE INCIDENTAL TO ITEM 641.10 - TRAFFIC CONTROL.

12. THE COSTS ASSOCIATED WITH PREPARING AND IMPLEMENTING THE TRAFFIC CONTROL PLAN SHALL BE INCIDENTAL TO ITEM 641.10 - TRAFFIC CONTROL. THIS INCLUDES PROVIDING AND MAINTAINING ALL CHANNELIZING DEVICES, TEMPORARY SIGNS, TEMPORARY MARKINGS, AND ALL OTHER ITEMS AND ACTIVITIES NOTED IN THE TRAFFIC CONTROL PLAN.

13. IF THE CONTRACTOR DETERMINES THAT A PERMANENT LANE CLOSURE IS NECESSARY DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING 24 HOUR LANE CONTROL THROUGH THE USE OF TEMPORARY TRAFFIC SIGNALS MEETING MUTCD AND VERMONT AGENCY OF TRANSPORTATION GUIDELINES. THE COST OF THE TEMPORARY SIGNAL SHALL BE CONSIDERED INCIDENTAL TO ITEM 641.10 - TRAFFIC CONTROL.

14. THE CONTRACTOR SHALL MINIMIZE DISRUPTION TO ADJACENT PRIVATE DRIVES. TRAFFIC SHALL NOT BE ALLOWED TO TRAVEL DIRECTLY OVER CONCRETE SIDEWALKS UNTIL 7 DAYS AFTER THE POUR, EXCEPT IN THE CASE OF EMERGENCY. THE CONTRACTOR SHALL PROVIDE A STEEL PLATE TO SPAN THE DRIVEWAY SIDEWALK TO ALLOW VEHICLE ACCESS TO PROPERITIES IN THE INTERIM, INCIDENTAL TO ITEM 641.10 - TRAFFIC CONTROL.

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SHEET 16 OF 16