



**State of Vermont  
Policy, Planning & Intermodal Development Division  
Policy, Planning and Research Bureau  
Development Review & Permitting Services Section**

Barre City Place, 219 North Main Street  
Barre, VT 05641

[vtrans.vermont.gov](http://vtrans.vermont.gov)

[phone] 802-636-0037  
[ttd] 800-253-0191

*Agency of Transportation*

September 24, 2019

Town of Milton  
David Allerton  
43 Bombadier Road  
Milton, VT 04568

Subject: Milton, US7, L.S. 140+55 ~ 190+50 LT

Dear Mr. Allerton:

Your application for a permit to work within the State Highway right-of-way to perform improvements to the Town of Milton under VTrans Project Milton STP BP(10) to include grading, subbase, sidewalk, retaining walls, street lighting and landscaping, crosswalks, signage, RRFB's, and other highway related items, at the location indicated, has been processed by this office and is enclosed.

Please contact the District Transportation Office #5 prior to starting work in the state highway right-of-way. The telephone number in Colchester is (802) 655-1580.

Sincerely,

A handwritten signature in blue ink that reads "James C. Clancy".

James Clancy  
Permit Coordinator  
Permitting Services

Enclosures

cc: District Transportation Office #5  
Derek Kenison, Project Supervisor, VTrans



PERMIT ID# 43360

FOR AGENCY USE ONLY

Town: Milton  
Route: US7  
Mile Marker: 2.66 ~ 3.61 LT  
Log Station: 140+55 ~ 190+50 LT

VERMONT AGENCY OF TRANSPORTATION  
State Highway Access and Work Permit

Owner's/Applicant's Name, Address, E-mail & Phone No. Town of Milton, 43 Bombardier Road, Milton, VT 05468

David Allerton, PE, Public Works Director, dallerton@miltonvt.gov, (802) 893-6655

Co-Applicant's Name, Address, E-mail & Phone No. (if different from above) \_\_\_\_\_

The location of work (town, highway route, distance to nearest mile marker or intersection & which side)

U.S. Route 7 between Nancy Drive (TH #144, mm 2.661) to Haydenberry Drive (TH #140, mm 3.607)

Description of work to be performed in the highway right-of-way (attach plan) Construct a new sidewalk to fill in gaps between existing sidewalk sections on the northerly side of Route 7. Modify existing driveways (see attached list) to accommodate the new sidewalk.

Property Deed Reference Book: \_\_\_\_\_ Page: \_\_\_\_\_ (only required for Permit Application for access)

Fee \$ \_\_\_\_\_ (fees do not apply for residential or agricultural purposes)

Is a Zoning Permit required? Yes ☐ No ☒ - If Yes, # \_\_\_\_\_


Is a 30 VSA § 248 permit required? Yes ☐ No ☒ - If Yes, # \_\_\_\_\_

Is an Act 250 permit required? Yes ☐ No ☒ - If Yes, # \_\_\_\_\_

Other permit(s) required? Yes ☐, No ☒ - If Yes, name and # of each \_\_\_\_\_

Date applicant expects work to begin Fall 20 19

Owner/Applicant: David H Turner Jr Position Title: Town Manager  
(Print name above)

Sign in Shaded area:		Date:	<u>7/29/19</u>
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Co-Applicant: \_\_\_\_\_ Position Title: \_\_\_\_\_  
(Print name above)

Sign in Shaded area:		Date:	
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INSTRUCTIONS:

-Contact the Development Review and Permitting Services Section (802.636.0037) or your local area Transportation Maintenance District Office to determine your issuing authority. The issuing authority will determine what plans, fee and other documents are required to be submitted with your Vermont Statutes Annotated, Title 19, Section 1111, permit application request.

- **Original signatures are required on an original Form.** The Owner/Applicant and Co-Applicant (if applicable) declares under the pains and penalty of perjury that all information provided on this form and submitted attachments are to the best of their knowledge true and complete.

FEE:

-See Fee Schedule for applicable administrative processing and application review fee.

PERMIT APPROVAL

Permission is granted to work within the state highway right-of-way to perform improvements to the Town of Milton under VTrans Project Milton STP BP(10) to include grading, subbase, sidewalk, retaining walls, street lighting and landscaping, crosswalks, signage, RRFB's, and other highway related items in accordance with the Agency standards and special conditions.

The work is subject to the restrictions and conditions on the reverse page, plus the Special Conditions stated on the attached page(s).

Date work is to be completed 12/1/2022

Date work accepted: \_\_\_\_\_

By Chris S. Sullivan Issued Date 9/24/2019  
Authorized Representative for  
Secretary of Transportation

By: \_\_\_\_\_  
DTA or Designee

NOTICE: This permit covers only the Vermont Agency of Transportation's jurisdiction over this highway under Vermont Statutes Annotated, Title 19, Section 1111. It does not release the petitioner from the requirements of any other statutes, ordinances, rules or regulations. This permit addresses only access to, work within, and drainage affecting the state highway. It does not address other possible transportation issues, such as access to town highways, use of private roads, and use of railroad crossings. If relevant to the proposed development, such issues must be addressed separately.

No work shall be done under this permit until the owner/applicant has contacted the District Transportation Office at:

District 5: (802) 655-1580

July 1, 2016 (All previously dated editions are not valid)



## RESTRICTIONS AND CONDITIONS

### DEFINITIONS:

"Agency" means the Vermont Agency of Transportation (a/k/a VTrans).

"Engineer" means the authorized agent of the Secretary of Transportation.

"Owner/Applicant" means the party(s) to whom the permit is to be issued.

"Co-Applicant" means the party who performs the work, if other than Owner/Applicant or a secondary Owner/Applicant under a joint permit application.

"Permit Holder" means the party who currently owns the lands abutting the highway that are the subject of the permit.

### GENERAL:

By accepting this permit, or doing any work hereunder, the Owner/Applicant agrees to comply with all of the restrictions and conditions and any imposed special conditions. If the Owner/Applicant is aggrieved by the restrictions and conditions or special conditions of the permit, they shall submit a written request for consideration to the Engineer within 30-days of permit issuance and prior to starting any work. No work will be authorized by the Agency, or performed under the permit, until the dispute is fully resolved.

Vermont Statutes Annotated, Title 30, Chapter 86 ("Dig Safe") requires notice to Dig Safe before starting excavation activities. The Permit Holder or his/her contractor must telephone Dig Safe at 811 at least 48 hours (excluding Saturdays, Sundays and legal holidays) before, but not more than 30 days before, starting excavation activities at any location. In addition, please note that the Agency and many municipalities are not members of Dig Safe and will need to have their utility facilities investigated with due diligence prior to starting excavation activities in or on the State Highway right-of-way.

The Permit Holder is to have a supervisory representative present any time work is being done in or on the State Highway right-of-way. A copy of this permit and Special Conditions must be in the possession of the individual performing this work for the Permit Holder.

Except with the specific, written permission of the District Transportation Administrator, all work in the State Highway right-of-way shall be performed during normal daylight hours and shall cease on Sunday, on all holidays (which shall include the day before and the day following), during or after severe storms, and between December 1 and April 15. These limitations will not apply for the purposes of maintenance, emergency repairs, or proper protections of the work which includes, but not limited to, the curing of concrete and the repairing and servicing of equipment.

The Owner/Applicant shall be responsible for all damages to persons or property resulting from any work done under this permit, even if the Applicant's Contractor performs the work. All references to the Owner/Applicant also pertain to the Co-Applicant.

The Owner/Applicant must comply with all federal and state statutes or regulations and all local ordinances controlling occupancy of public highways. In the event of a conflict, the more restrictive provision shall apply.

The Owner/Applicant must, in every case where there is a possibility of injury to persons or property from blasting, use a pre-approved Blasting Plan. All existing utility facilities shall be protected from damage or injury.

The Owner/Applicant shall erect and maintain barriers needed to protect the traveling public. The barriers shall be properly lighted at night and must be MUTCD (Manual on Uniform Traffic Control Devices) compliant.

All temporary and permanent traffic control measures and devices shall be MUTCD compliant.

The Owner/Applicant shall not do any work or place any structures or obstacles within the State Highway right-of-way, except as authorized by this permit.

The Owner/Applicant may pay the entire cost of the salary, subsistence and traveling expenses of any inspector appointed by the Engineer to supervise such work.

The Engineer may modify or revoke the permit at any time for safety-related reasons, without rendering the Agency or the State of Vermont liable in any way.

In addition to any other enforcement powers that may be provided for by the law, the Engineer may suspend this permit until compliance is obtained. If there is continued use or activity after suspension, the Engineer may physically close the work area and take corrective action to protect the safety of the highway users.

The Permit Holder shall be responsible to rebuild, repair, restore and make good all injuries or damage to any portion of the highway right-of-way that has been brought about by the execution of the permitted work, for a minimum period of eighteen (18) months after final inspection by the District.

Any approved variance from the permitted plans is to be recorded on "as-builts" with copies provided to both the Chief of Permitting Services and the District Transportation Administrator.

### ACCESS:

**This permit (if for access) does not become effective until the owner/applicant records in the office of the appropriate municipal clerk, the attached "Notice of Permit Action"**

As development occurs on land abutting the highways, the Agency may revoke a permit for access and require the construction of other access improvements such as the combination of access points by adjoining owners.

Under Vermont Statutes Annotated, Title 19, Section 1111, no deed purporting to subdivide land abutting a state highway can be recorded unless all the abutting lots so created are in accordance with the standards of Section 1111.

The Permit Holder acknowledges and agrees that neither this permit nor any prior pattern of use creates an ownership interest or other form of right in a particular configuration or number of accesses to or through the highway right-of-way, and that the right of access consists merely of a right to reasonable access the general system of streets, and is not a right to the most convenient access or any specific configuration of access.

### DRAINAGE:

The Owner/Applicant shall install catch basins and outlets as may be necessary, in the opinion of the Engineer, to preclude interference with the drainage of the state highway. Direct connections shall not be allowed without written approval.

### UTILITY WORK; CUTTING AND TRIMMING TREES:

The Owner/Applicant shall obtain the written consent of the adjoining owners or occupants or, in the alternative, an order from the State Transportation Board in accordance with, Vermont Statutes Annotated, Title 30, Section 2506, regarding cutting of or injury to trees.

In general, all utilities shall be located adjacent to the State Highway right-of-way boundary line and shall be installed without damaging the highway or the highway right-of-way. No pole, push-brace, guy wire or other aboveground facilities shall be placed closer than 10 feet to the edge of traveled-way. If the proposed utility facilities are in conflict with the above, each location is subject to the approval of the Engineer.

Poles and appurtenances shall be located out of conflict with intersection sight distance, guardrail, ditches, signs, culverts, etc.

Where the cutting or trimming of trees is authorized by permit, all debris resulting from such cutting and trimming shall be removed from the State Highway right-of-way.

Open cut excavation for highway crossings is NOT the option of the Applicant, and may be utilized only where attempted jacking, drilling, or tunneling methods fail or are impractical. The Owner/Applicant shall obtain an appropriate modification of the highway permit from the Engineer before making an open cut.

### JOINT PERMITS:

A joint permit application is required when more than one party will be involved with the construction, maintenance, and/or operation of the facility being constructed under this permit. Examples include, but are not limited to, joint ownership or occupancy of a utility pole line and construction of a municipal utility line by a contractor. Both utility companies, and in the second case, the municipality and the contractor, must be joint applicants.



### **SPECIAL CONDITIONS**

This permit is granted subject to the restrictions and conditions on the back of the permit, with particular attention given to the Special Conditions listed below. This permit pertains only to the authority exercised by the Vermont Agency of Transportation (Agency) under Vermont Statutes Annotated, Title 19, Section 1111, and does not relieve the Permit Holder from the requirements of otherwise applicable statutes, rules, regulations or ordinances (e.g., Act 250, zoning, etc.). The Permit Holder shall observe and comply with all Federal and State laws and local bylaws, ordinances, and regulations in any manner affecting the conduct of the work and the action or operation of those engaged in the work, including all orders or decrees as exist at present and those which may be enacted later by bodies or tribunals having jurisdiction or authority over the work, and the Permit Holder shall defend, indemnify, and save harmless the State and all its officers, agents, and employees against any claim or liability arising from or based on the violation of any such law, bylaws, ordinances, regulations, order, or decree, whether by the Permit Holder in person, by an employee of the Permit Holder, by a person or entity hired by the Permit Holder, or by a Subcontractor or supplier.

The Permit Holder shall accomplish all work under this permit in accordance with the attached final plans dated June 25, 2019 and attached description of work.

**A preconstruction meeting to discuss work to be completed must be held prior to the Permit Holder's employees or contractor beginning work. The Permit Holder is required to notify the District Transportation Administrator five (5) working days in advance of such meeting.**

**Please note that the Vermont Agency of Transportation is not a member of Dig Safe.** The Permit Holder shall also contact Dan Ertel, State Signal Supervisor, at (802) 343-2188. Mr. Ertel will need to locate and mark all existing buried utility facilities owned by the Agency near the location of the proposed work.

Roadway shoulder areas must be maintained free of unnecessary obstructions, including parked vehicles, at all times while work is being performed under this permit.

Two-way traffic shall be maintained at all times unless permission is granted from the District Transportation Administrator. Whenever two-way, one-lane controlled traffic is authorized to be maintained by the Applicant's Contractor, **the traveling public shall not be delayed more than 10 minutes.**

All grading within the State Highway right-of-way associated with the proposed construction shall be subject to inspection and approval by the District Transportation Administrator or his or her staff. The Permit Holder shall be responsible for ensuring that all grading work in or on the State Highway right-of-way complies with applicable statutes, rules, regulations or ordinances.

In areas to be grass covered, the Permit Holder shall restore turf by preparing the area and applying the necessary topsoil, limestone, fertilizer, seed, and mulch, all to the satisfaction of the District Transportation Administrator. The Permit Holder shall be responsible for ensuring that all turf restoration work in or on the State Highway right-of-way is in compliance with applicable statutes, rules, regulations or ordinances.



The placement, size, shape, and color of all pavement markings must be in accordance with the most recent editions of the MUTCD (Manual on Uniform Traffic Control Devices) and Vermont standards. All existing pavement markings that become disturbed or overlaid with pavement shall be replaced by the Permit Holder with "in kind" (durable or paint) markings to the satisfaction of the District Transportation Administrator. The Permit Holder shall bear all costs associated with this work.

Upon completion of the work, the Permit Holder shall be responsible to schedule and hold a final inspection. The Permit Holder is required to notify the District Transportation Administrator five (5) working days in advance of such inspection.

All accesses must be constructed in such a manner as to prevent water from flowing onto the State Highway. If the accesses are not constructed satisfactorily, the District Transportation Administrator, or Resident Engineer, can order reconstruction of the access at the Permit Holder's expense.

The Permit Holder shall verify the appropriate safety measures needed, prior to construction, so proper devices and/or personnel are available when and as needed. Traffic control devices, shall be in conformance with the MUTCD (Manual on Uniform Traffic Control Devices), Agency standards and any additional traffic control deemed necessary by the District Transportation Administrator. The Permit Holder's failure to utilize proper measures shall be considered sufficient grounds for the District Transportation Administrator to order cessation of the work immediately.

The Permit Holder will perform construction in such a way as to minimize conflicts with normal highway traffic. When two-way traffic cannot be maintained, the Permit Holder shall provide a sign package that conforms to the MUTCD (Manual on Uniform Traffic Control Devices) or Agency standards, as well as trained Flaggers. The District Transportation Administrator may require a similar sign package with trained Flaggers whenever it is deemed necessary for the protection of the traveling public. In addition, the District Transportation Administrator may require the presence of Uniform Traffic Officers (UTOs); moreover, the presence of UTOs shall not excuse the Permit Holder from its obligation to provide the sign package and Flaggers.

The Permit Holder shall ensure that all workers exposed to the risks of moving highway traffic and/or construction equipment wear high-visibility safety apparel meeting the requirements of ISEA (International Safety Equipment Association) "American National Standards for High-Visibility Safety Apparel," and labeled as ANSI (American National Standards Institute) 107-2004, or latest revisions, for Performance Class 2 or 3 requirements. A competent person - one designated by the Permit Holder's Contractor to be responsible for worker safety within the activity area of the State highway right-of-way shall select the appropriate class of garment. The Engineer may suspend this permit until compliance is obtained.

**Independence; Liability:** The Permit Holder will act in an independent capacity and not as officers or employees of the State.

The Permit Holder shall defend the State and its officers and employees against all claims or suits arising in whole or in part from any act or omission of the Permit Holder or of any agent of the Permit Holder. The State shall notify the Permit Holder in the event of any such claim or suit, and the Permit Holder shall immediately retain counsel and otherwise provide a complete defense against the entire claim or suit.



After a final judgment or settlement, the Permit Holder may request recoupment of specific defense costs and may file suit in the Washington Superior Court requesting recoupment. The Permit Holder shall be entitled to recoup costs only upon a showing that such costs were entirely unrelated to the defense of any claim arising from an act or omission of the Permit Holder.

The Permit Holder shall indemnify the State and its officers and employees in the event that the State, its officers or employees become legally obligated to pay any damages or losses arising from any act or omission of the Permit Holder.

**Insurance:** Before beginning any work under this Permit the Permit Holder must provide certificates of insurance to show that the following minimum coverages are in effect. It is the responsibility of the Permit Holder to maintain current certificates of insurance on file with the State for the duration of work under the Permit. No warranty is made that the coverages and limits listed herein are adequate to cover and protect the interests of the Permit Holder for the Permit Holder's operations. These are solely minimums that have been established to protect the interests of the State.

Workers' Compensation: With respect to all operations performed under the Permit, the Permit Holder shall carry workers' compensation insurance in accordance with the laws of the State of Vermont.

General Liability and Property Damage: With respect to all operations performed under the Permit, the Permit Holder shall carry general liability insurance having all major divisions of coverage including, but not limited to:

Premises - Operations  
Products and Completed Operations  
Personal Injury Liability  
Contractual Liability

The policy shall be on an occurrence form and limits shall not be less than:

\$2,000,000 Per Occurrence  
\$2,000,000 General Aggregate  
\$2,000,000 Products/Completed Operations Aggregate  
\$ 50,000 Fire/Legal Liability

Permit Holder shall name the State of Vermont and its officers and employees as additional insureds for liability arising out of this Permit.

Automotive Liability: The Permit Holder shall carry automotive liability insurance covering all motor vehicles, including hired and non-owned coverage, used in connection with the Permit. Limits of coverage shall not be less than: \$1,000,000 combined single limit.

Permit Holder shall name the State of Vermont and its officers and employees as additional insureds for liability arising out of this Permit.

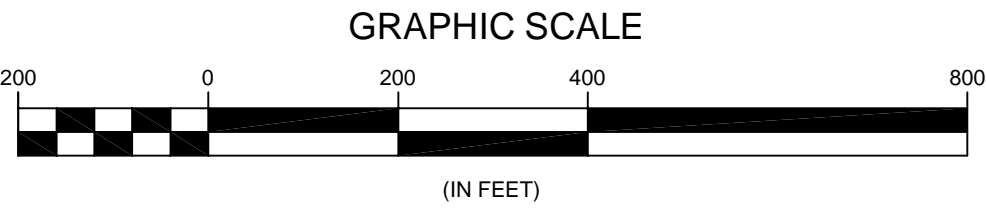
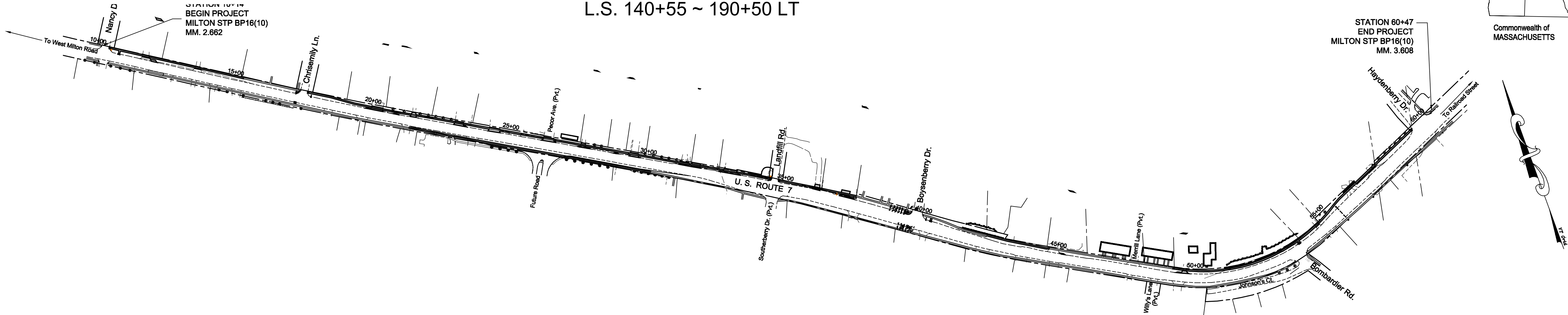
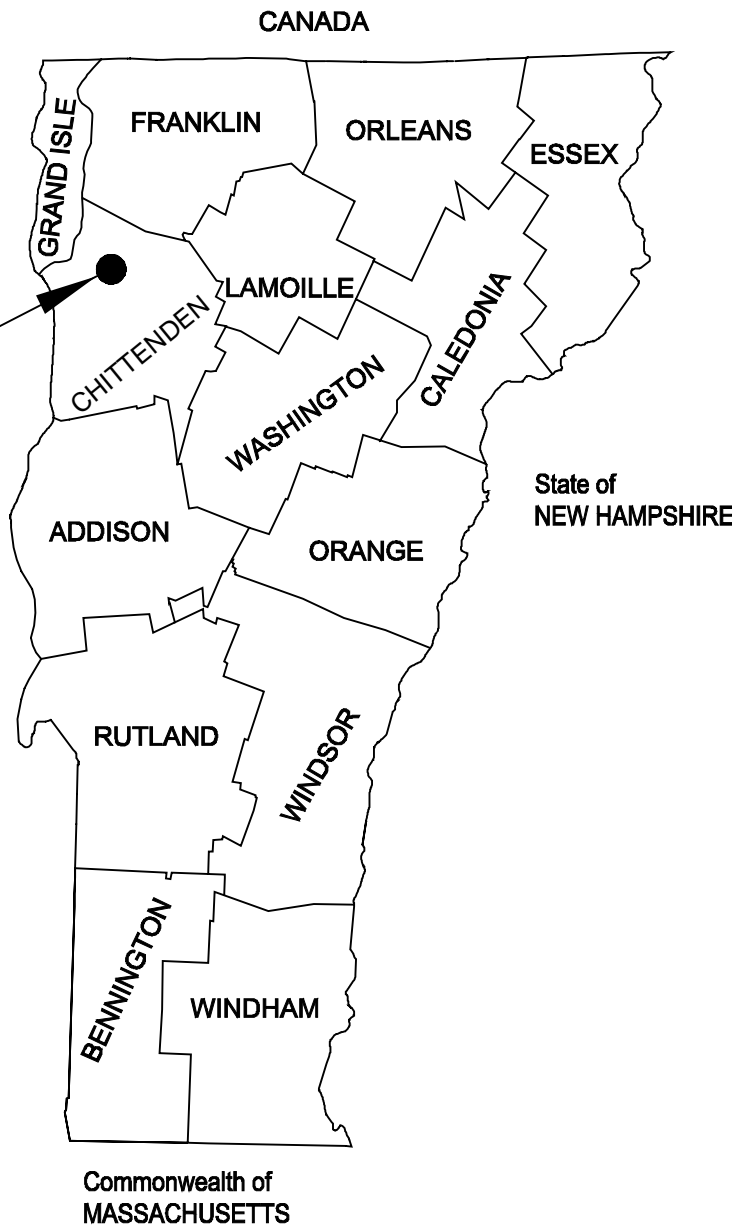
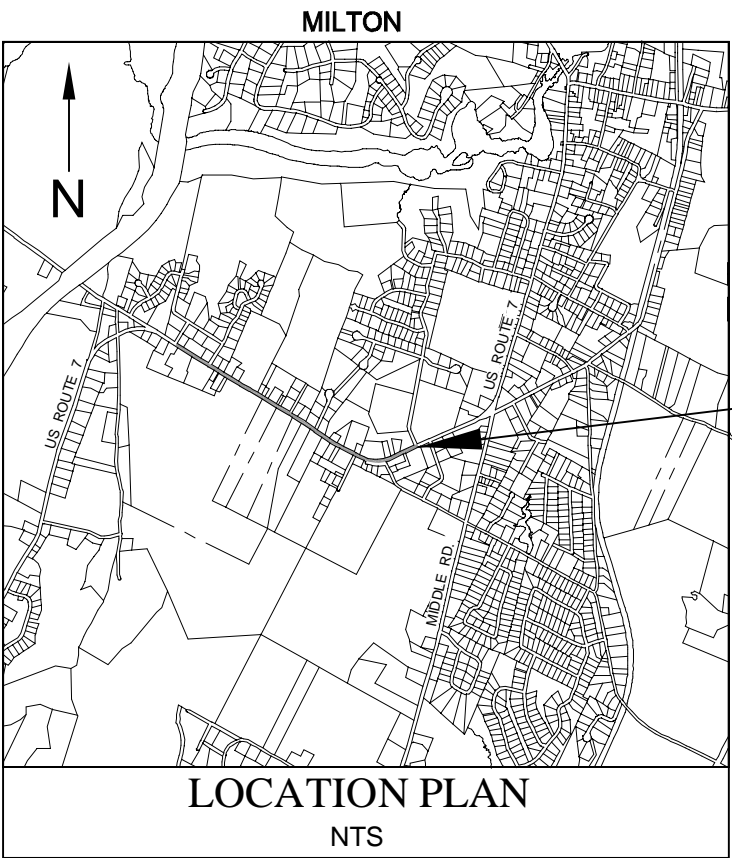


PROPOSED IMPROVEMENTS  
TOWN OF MILTON  
COUNTY OF CHITTENDEN  
U.S. ROUTE 7 (PRINCIPAL ARTERIAL)  
MILTON STP BP16(10)

WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES GRADING, SUBBASE, CEMENT CONCRETE SIDEWALK, GABION RETAINING WALLS, FENCING, STREET LIGHTING AND LANDSCAPING, CROSSWALKS, SIGNS, RECTANGULAR RAPID FLASHING BEACONS AND OTHER HIGHWAY RELATED ITEMS.

LENGTH OF SIDEWALK = 4,120 FT (0.78 MILES)  
LENGTH OF PROJECT = 5,033 FT (0.95 MILES)

L.S. 140+55 ~ 190+50 LT



INDEX OF SHEETS

1	TITLE SHEET
2-4	QUANTITY SHEETS
5	CONVENTIONAL SYMBOLOGY LEGEND
6	TIE SHEET
7-15	EXISTING CONDITION PLANS
16-24	LAYOUT PLAN & PROFILE SHEETS
25-31	CROSS SECTIONS
32	RETAINING WALL DETAILS
33-34	DETAILS
35-37	EPSC PLANS
38-39	TRAFFIC CONTROL PLANS
40	STREET LIGHTING PLAN
41	STREET LIGHTING & RRFB DETAILS

STANDARD SHEETS

A-78	SHARED USE PATH TYPICALS	3-31-04
C-3A	SIDEWALK RAMPS	3-10-08
C-3B	SIDEWALK RAMPS & MEDIAN ISLANDS	3-10-08
D-8	REINFORCED CONCRETE DROP INLET WITH PRECAST COVER AND GRATE	1-03-00
E-1	TREE PLANTING DETAILS	7-11-17
E-121	STANDARD SIGN PLACEMENT CONVENTIONAL ROAD	8-08-95
E-170	TRAFFIC CONTROL SIGNALS, PEDESTAL POST MOUNTED	11-04-99
E-171C	PEDESTRIAN PUSH BUTTON ACCESSIBILITY DETAIL	8-09-95
E-173	PULL BOXES AND JUNCTION BOXES	8-09-95
E-175	POWER DROP STANCHIONS	6-08-09
E-191	PAVEMENT MARKING DETAILS	2-01-99
E-192	PAVEMENT MARKING DETAILS	10-12-00
F-4	CHAIN LINK FENCE, TYPE II	6-01-94
G-1	STEEL BEAM GUARDRAIL WITH STEEL POSTS	3-10-17
G-10	STEEL BEAM GUARDRAIL END TERMINALS	3-10-17
J-3	MAILBOX SUPPORT DETAIL	8-07-95
T-1	TRAFFIC CONTROL GENERAL NOTES	4-25-16
T-2	TRAFFIC SIGN GENERAL NOTES	4-25-16
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	8-06-12
T-24	TRAFFIC CONTROL FOR MAINTENANCE PAVEMENT MARKING OPERATION	8-06-12
T-28	CONSTRUCTION SIGN DETAILS	8-06-12
T-30	CONSTRUCTION SIGN DETAILS	8-06-12
T-35	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS	8-06-12
T-45	SQUARE TUBE SIGN POST AND ANCHOR	1-02-13
T-56	STANDARD SIGN PLACEMENT	10-26-15
T-133	LIGHT POLE FOUNDATION DETAILS	7-25-16
T-134	LIGHT POLE & TRANSFORMER BASE DETAILS	3-10-17

TRAFFIC DATA

2019 AADT = 14,000 VPD  
2019 DHV = 1,570 VPH  
2039 AADT = 15,300 VPH  
2039 DHV = 1,680 VPH  
D = 11%  
T = 6.25 %  
V = 35 MPH  
POSTED SPEED LIMIT = 35 MPH

NOTES:

- THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE VERMONT AGENCY OF TRANSPORTATION. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS INCORPORATED IN THESE PLANS.
- INDIVIDUAL PROPERTY LINES WERE LOCATED BASED ON FOUND EVIDENCE AND TOWN PARCEL MAPPING.
- LINES SHOWN ON THESE PLANS AS EXISTING PROPERTY LINES ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE ACQUISITION OF LANDS AND RIGHTS FOR THIS PROJECT.

QUALITY ASSURANCE PROGRAM : LEVEL 3

SURVEYED BY : LAMOUREUX & DICKINSON  
SURVEYED DATE : 2016 & 2017

DATUM  
VERTICAL NAVD 1988  
HORIZONTAL NAD 1983



FINAL PLANS  
JUNE 25, 2019

**L** Lamoureux & Dickinson  
Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
802-878-4450 www.LDengineering.com

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

TOWN MANAGER : DON TURNER, JR.

PROJECT NAME : ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER : MILTON STP BP16(10)

SHEET 1



STATE OF VERMONT AGENCY OF TRANSPORTATION														QUANTITY SHEET 1									
SUMMARY OF ESTIMATED QUANTITIES														TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
									Sidewalk	Landscaping	Landscaping - Non Participating	Erosion Control		GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS	
									1					1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10					
									3					3		EACH	REMOVING MEDIUM TREES	201.15					
									1410					1410		CY	COMMON EXCAVATION	203.15					
									70					70		CY	SOLID ROCK EXCAVATION	203.16					
									75					75		CY	EXCAVATION OF SURFACES AND PAVEMENTS	203.28					
									1170					1170		CY	EARTH BORROW	203.30					
									20					20		CY	TRENCH EXCAVATION OF EARTH	204.20					
									1					1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22					
									30					30		SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.10					
									660					660		CY	SUBBASE OF CRUSHED GRAVEL, COARSE GRADED	301.25					
									160					160		TON	MARSHALL BITUMINOUS CONCRETE PAVEMENT	406.25					
									200					200		GAL	WATER REPELLENT, SILANE	514.10					
									80					80		LF	18" CPEP(SL)	601.2615					
									1					1		EACH	18" CSPES .064 (2-2/3 X 1/2)	601.6015					
									2					2		EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE	604.20					
									1					1		EACH	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON COVER	604.21					
									3					3		EACH	CHANGING ELEVATION OF SEWER MANHOLES	604.42					
									10					10		HR	POWER BROOM RENTAL, TYPE I	608.30					
									0.5					0.5		MGAL	DUST CONTROL WITH WATER	609.10					
									10					10		CY	STONE FILL, TYPE II	613.11					
									14					14		EACH	REMOVE AND RESET MAILBOX, SINGLE SUPPORT	617.10					
									320					320		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH	618.11					
									150					150		SF	DETECTABLE WARNING SURFACE	618.30					
									460					460		LF	CHAIN-LINK FENCE, 4 FEET	620.11					
									4					4		EACH	BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 4 FEET	620.20					
									430					430		LF	REMOVAL OF EXISTING FENCE	620.55					
									10					10		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20					
									2					2		EACH	ANCHOR FOR STEEL BEAM RAIL	621.60					
									20					20		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80					
									8					8		EACH	ADJUST ELEVATION OF VALVE BOX	629.20					
									1					1		EACH	RELOCATE HYDRANT	629.29					
									100					100		HR	UNIFORMED TRAFFIC OFFICERS	630.10					
									1800					1800		HR	FLAGGERS	630.15					
									1					1		LS	MOBILIZATION/DEMOBILIZATION	635.11					
									1					1		LS	TRAFFIC CONTROL	641.10					
									105					105		LF	DURABLE 24 INCH STOP BAR, EPOXY PAINT	646.483					
									22					22		EACH	DURABLE LETTER OR SYMBOL, EPOXY PAINT	646.493					
									370					370		LF	DURABLE CROSSWALK MARKING, EPOXY PAINT	646.503					
									500					500		SF	REMOVAL OF EXISTING PAVEMENT MARKINGS	646.85					
									15					15		SY	GEOTEXTILE UNDER STONE FILL	649.31					
																				PROJECT NAME:		Route 7 Sidewalk Gap Project	
																				PROJECT NUMBER:		Milotn STP BP (10)	
																				FILE NAME:		17052	
																				PROJECT LEADER:		Doug Henson	
																				DESIGNED BY:		Doug Henson	
																				PLOT DATE:		06/27/2019	
																				CHECKED BY:		Roder Dickin	
																				QUANTITY SHEET #1		SHEET 2 OF 41	



STATE OF VERMONT AGENCY OF TRANSPORTATION														QUANTITY SHEET 2									
SUMMARY OF ESTIMATED QUANTITIES														TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
									Sidewalk	Landscaping	Landscaping - Non Participating	Erosion Control		GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS	
												100		100		LB	SEED	651.15					
												400		400		LB	FERTILIZER	651.18					
												0.2		0.2		TON	AGRICULTURAL LIMESTONE	651.20					
												430		430		CY	TOPSOIL	651.35					
												1.5		1.5		TON	HAY MULCH	653.10					
												200		200		SY	ROLLED EROSION CONTROL PRODUCT, TYPE I	653.20					
												55		55		CY	STABILIZED CONSTRUCTION ENTRANCE	653.35					
												425		425		LF	SILT FENCE, TYPE II	653.476					
												2930		2930		LF	PROJECT DEMARCATION FENCE	653.55					
											3			3		EACH	DECIDUOUS TREES (Non-Participating Ivory Silk Japanese Tree Lilac)	656.30					
											8			8		EACH	DECIDUOUS TREES (Non-Participating Adirondack Crab Apple)	656.30					
											9			9		EACH	DECIDUOUS TREES (Non-Participating Celebration Maple)	656.30					
											1			1		EACH	DECIDUOUS TREES (Non-Participating Heritage River Birch)	656.30					
											11			11		EACH	DECIDUOUS TREES (Non-Participating Northern Red Oak)	656.30					
											4			4		EACH	DECIDUOUS TREES (Non-Participating Prarie Fire Crab Apple)	656.30					
											9			9		EACH	DECIDUOUS TREES (Non-Participating Princeton American Elm)	656.30					
											1			1		EACH	DECIDUOUS TREES (Non-Participating Red Baron Crab Apple)	656.30					
											3			3		EACH	DECIDUOUS TREES (Non-Participating Sargent Crab Apple)	656.30					
											4			4		EACH	DECIDUOUS TREES (Non-Participating State Street Maple)	656.30					
										3				3		EACH	DECIDUOUS TREES (Participating Adirondack Crab Apple)	656.30					
										10				10		EACH	DECIDUOUS TREES (Participating Celebration Maple)	656.30					
										5				5		EACH	DECIDUOUS TREES (Participating Corinthian Linden)	656.30					
										3				3		EACH	DECIDUOUS TREES (Participating Ivory Silk Japanese Tree Lllac)	656.30					
										6				6		EACH	DECIDUOUS TREES (Participating Red Baron Crab Apple)	656.30					
										6				6		EACH	DECIDUOUS TREES (Participating Sargent Crab Apple)	656.30					
										2				2		EACH	DECIDUOUS TREES (Participating Streetkeeper Honey Locust)	656.30					
										75	110			185		MGAL	LANDSCAPE WATERING	656.65					
										435	640			1075		CY	LANDSCAPE BACKFILL, TRUCK MEASUREMENT	656.80					
										1				1		LS	TREE PROTECTION	656.85					
									25					25		SF	TRAFFIC SIGN, TYPE A	675.20					
									45					45		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341					
									7					7		EACH	REMOVING SIGNS	675.50					
									2					2		EACH	RESETTING SIGNS	675.60					
									2					2		EACH	SETTING SALVAGED POSTS	675.61					
									1030					1030		LF	WIRED CONDUIT ( 2")	678.23					
									100					100		LF	WIRED CONDUIT (2.5")	678.23					
									2					2		EACH	JUNCTION BOX	678.26					
									60					60		LF	ELECTRICAL CONDUIT SLEEVE	678.30					
									1					1		EACH	POWER DROP STANCHION, STREET LIGHTING	679.55					
									1					1		EACH	SPECIAL PROVISION ( Rectangular Rapid Flashing Beacon, Bombardier Road)	900.620					
																				PROJECT NAME:		Route 7 Sidewalk Gap Project	
																				PROJECT NUMBER:		Milotn STP BP (10)	
																				FILE NAME:		17052	
																				PROJECT LEADER:		Doug Henson	
																				DESIGNED BY:		Doug Henson	
																				PLOT DATE:		06/27/2019	
																				DRAWN BY:		Doug Henson	
																				CHECKED BY:		Roaer Dickin	
																				QUANTITY SHEET #2		SHEET 3 OF 41	



## QUANTITY SHEET 3

[illegible]



GENERAL INFORMATION

SYMBOLOLOGY LEGEND NOTE

THE SYMBOLOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOLOGY. THE SYMBOLOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
	■	BNDNS BOUND SET
	▣	BNDNS BOUND TO BE SET
	●	IPNS IRON PIN SET
	◎	IPNS IRON PIN TO BE SET
	⊠	CALC EXISTING ROW POINT
	○	PROW PROPOSED ROW POINT
	[LENGTH]	LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
⊗	APL	BOUND APPARENT LOCATION
▣	BM	BENCHMARK
▣	BND	BOUND
▣	CB	CATCH BASIN
⊕	COMB	COMBINATION POLE
▣	DITHR	DROP INLET THROATED DNC
⊕	EL	ELECTRIC POWER POLE
⊙	FPOLE	FLAGPOLE
⊙	GASFIL	GAS FILLER
⊙	GP	GUIDE POST
⊗	GSD	GAS SHUT OFF
⊙	GUY	GUY POLE
⊙	GUYW	GUY WIRE
⊗	GV	GATE VALVE
⊗	H	TREE HARDWOOD
△	HCTRL	CONTROL HORIZONTAL
△	HVCTRL	CONTROL HORIZ. & VERTICAL
⊕	HYD	HYDRANT
⊙	IP	IRON PIN
⊙	IPIPE	IRON PIPE
⊕	LI	LIGHT - STREET OR YARD
⊕	MB	MAILBOX
⊕	MH	MANHOLE (MH)
▣	MM	MILE MARKER
⊙	PM	PARKING METER
▣	PMK	PROJECT MARKER
⊙	POST	POST STONE/WOOD
⊗	RRSIG	RAILROAD SIGNAL
⊕	RRSL	RAILROAD SWITCH LEVER
⊕	S	TREE SOFTWOOD
⊕	SAT	SATELLITE DISH
⊕	SHRUB	SHRUB
⊕	SIGN	SIGN
⊕	STUMP	STUMP
⊕	TEL	TELEPHONE POLE
⊕	TIE	TIE
⊕	TSIGN	SIGN W/DOUBLE POST
⊕	VCTRL	CONTROL VERTICAL
⊕	WELL	WELL
⊗	WSD	WATER SHUT OFF

THESE ARE COMMON VADT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

UTILITY SYMBOLOLOGY

UNDERGROUND UTILITIES

— UGU —	UTILITY (GENERIC-UNKNOWN)
— UT —	TELEPHONE
— UE —	ELECTRIC
— UC —	CABLE (TV)
— UEC —	ELECTRIC+CABLE
— UET —	ELECTRIC+TELEPHONE
— UCT —	CABLE+TELEPHONE
— UECT —	ELECTRIC+CABLE+TELEP.
— G —	GAS LINE
— W —	WATER LINE
— S —	SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

— AGU —	UTILITY (GENERIC-UNKNOWN)
— T —	TELEPHONE
— E —	ELECTRIC
— C —	CABLE (TV)
— EC —	ELECTRIC+CABLE
— ET —	ELECTRIC+TELEPHONE
— AER E&T —	ELECTRIC+TELEPHONE
— CT —	CABLE+TELEPHONE
— ECT —	ELECTRIC+CABLE+TELEP.
— — —	UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOLOGY

— CZ —	CLEAR ZONE
— — —	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

△ — △ — △ — △	TOP OF CUT SLOPE
○ — ○ — ○ — ○	TOE OF FILL SLOPE
⊗ ⊗ ⊗ ⊗ ⊗ ⊗	STONE FILL
— — — — —	BOTTOM OF DITCH &
— — — — —	CULVERT PROPOSED
— — — — —	STRUCTURE SUBSURFACE
PDF — PDF —	PROJECT DEMARCATION FENCE
BF — BF —	BARRIER FENCE
TPZ — TPZ —	TREE PROTECTION ZONE (TPZ)
— — — — —	STRIPING LINE REMOVAL
— — — — —	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOLOGY

BOUNDARY LINES

— TOWN LINE —	TOWN BOUNDARY LINE
— COUNTY LINE —	COUNTY BOUNDARY LINE
— STATE LINE —	STATE BOUNDARY LINE
— — — — —	PROPOSED STATE R.O.W. (LIMITED ACCESS)
— — — — —	PROPOSED STATE R.O.W.
— — — — —	STATE ROW (LIMITED ACCESS)
— — — — —	STATE ROW
— — — — —	TOWN ROW
— — — — —	PERMANENT EASEMENT LINE (P)
— — — — —	TEMPORARY EASEMENT LINE (T)
— — — — —	SURVEY LINE
— — — — —	PROPERTY LINE (P/L)
— SR —	SLOPE RIGHTS
— 6f —	6F PROPERTY BOUNDARY
— 4f —	4F PROPERTY BOUNDARY
— HAZ —	HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOLOGY

EPSC MEASURES

— — — — —	FILTER CURTAIN
— — — — —	SILT FENCE
— — — — —	SILT FENCE WOVEN WIRE
— — — — —	CHECK DAM
— — — — —	DISTURBED AREAS REQUIRING RE-VEGETATION
— — — — —	EROSION MATTING

ENVIRONMENTAL RESOURCES

— — — — —	WETLAND BOUNDARY
— — — — —	RIPARIAN BUFFER ZONE
— — — — —	WETLAND BUFFER ZONE
— — — — —	SOIL TYPE BOUNDARY
— T&E —	THREATENED & ENDANGERED SPECIES
— HAZ —	HAZARDOUS WASTE AREA
— AG —	AGRICULTURAL LAND
— HABITAT —	FISH & WILDLIFE HABITAT
— FLOOD PLAIN —	FLOOD PLAIN
— OHW —	ORDINARY HIGH WATER (OHW)
— — — — —	STORM WATER
— — — — —	USDA FOREST SERVICE LANDS
— — — — —	WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

— ARCH —	ARCHEOLOGICAL BOUNDARY
— HISTORIC DIST —	HISTORIC DISTRICT BOUNDARY
— HISTORIC —	HISTORIC AREA
— (H) —	HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOLOGY

EXISTING FEATURES

— — — — —	ROAD EDGE PAVEMENT
— — — — —	ROAD EDGE GRAVEL
— — — — —	DRIVEWAY EDGE
— — — — —	DITCH
— — — — —	FOUNDATION
— x — x — x — x —	FENCE (EXISTING)
— □ — □ — □ — □ —	FENCE WOOD POST
— ○ — ○ — ○ — ○ —	FENCE STEEL POST
— — — — —	GARDEN
— ○ — ○ — ○ — ○ —	ROAD GUARDRAIL
— — — — —	RAILROAD TRACKS
— — — — —	CULVERT (EXISTING)
— — — — —	STONE WALL
— — — — —	WALL
— — — — —	WOOD LINE
— — — — —	BRUSH LINE
— — — — —	HEDGE
— — — — —	BODY OF WATER EDGE
— — — — —	LEDGE EXPOSED

PROPOSED FEATURES

— — — — —	NEW TREE - PARTICIPATING
— — — — —	NEW TREE - NON-PARTICIPATING
— — — — —	NEW TREE - TO BE INSTALLED BY OTHERS

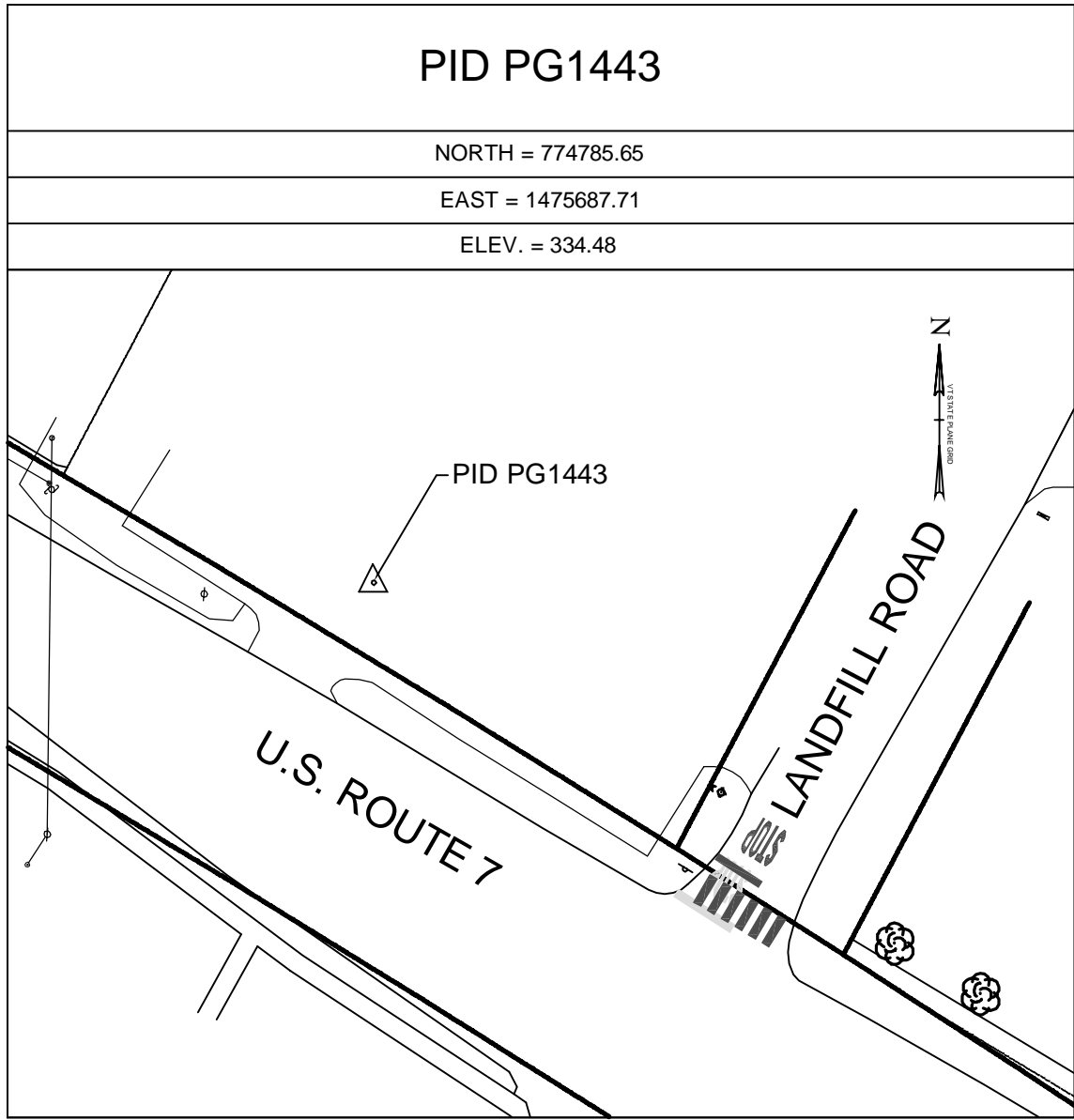
PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
CONVENTIONAL SYMBOLOLOGY - LEGEND

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 5



GPS CONTROL POINT



DESCRIBED BY VERMONT AGENCY OF TRANSPORTATION 1977 1.2 MI SW FROM MILTON. TO REACH FROM THE POST OFFICE IN MILTON GO SOUTHWEST AND WEST ALONG ROUTE U.S. 7 FOR 0.7 MILES TO THE B AND R MOTORS GARAGE, 63 FEET NORTH OF THE CENTERLINE OF ROUTE U.S. 2, 101 FEET WEST OF THE CENTERLINE OF ROAD NORTH, 38 FEET SOUTHWEST OF THE SOUTHEAST CORNER OF B AND R MOTORS GARAGE, IN THE SOUTHWEST CORNER OF THE GAS PUMP ISLAND.

STATION RECOVERY (1992)  
RECOVERY NOTE BY VERMONT AGENCY OF TRANSPORTATION 1992  
RECOVERED IN GOOD CONDITION.

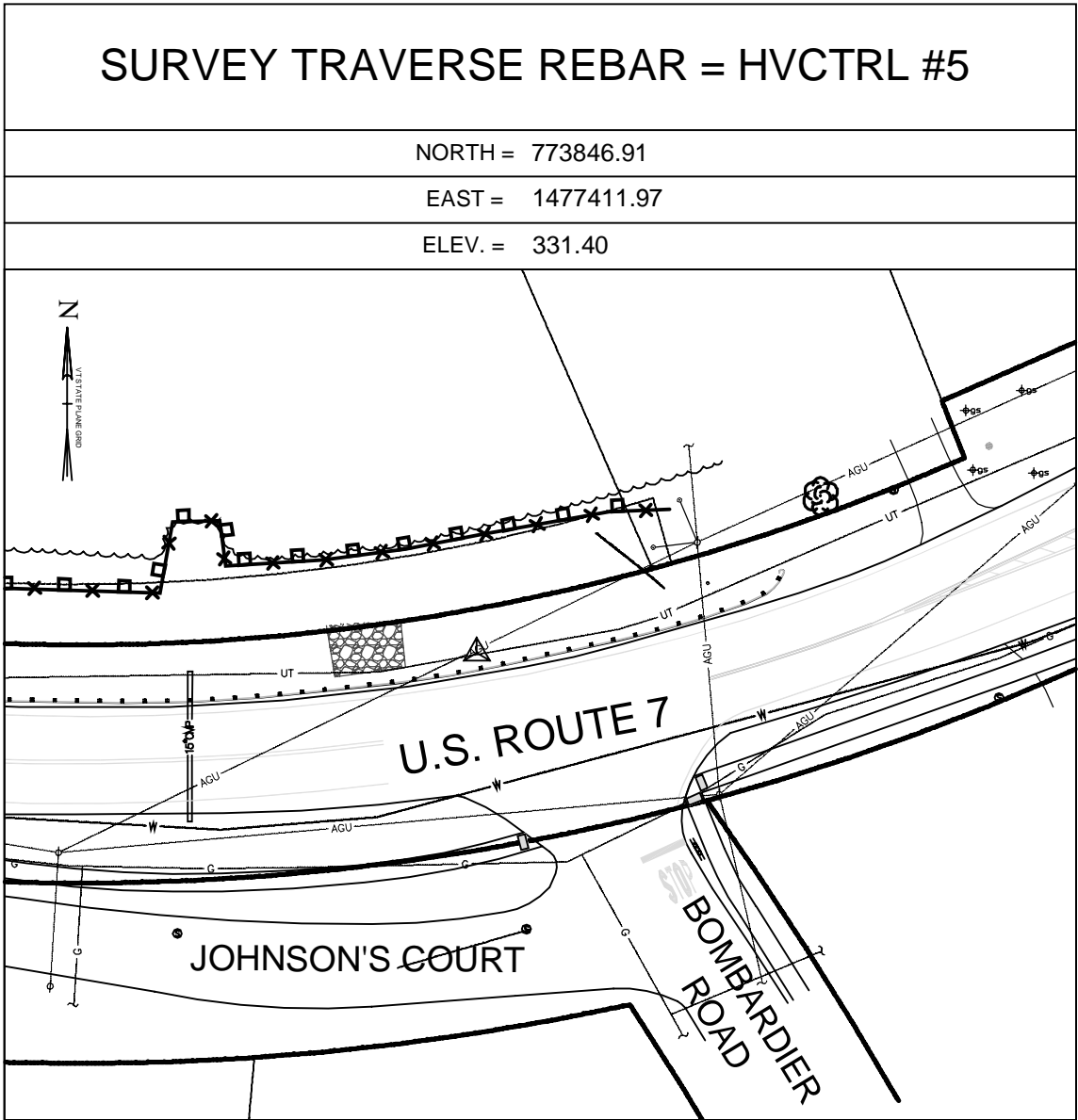
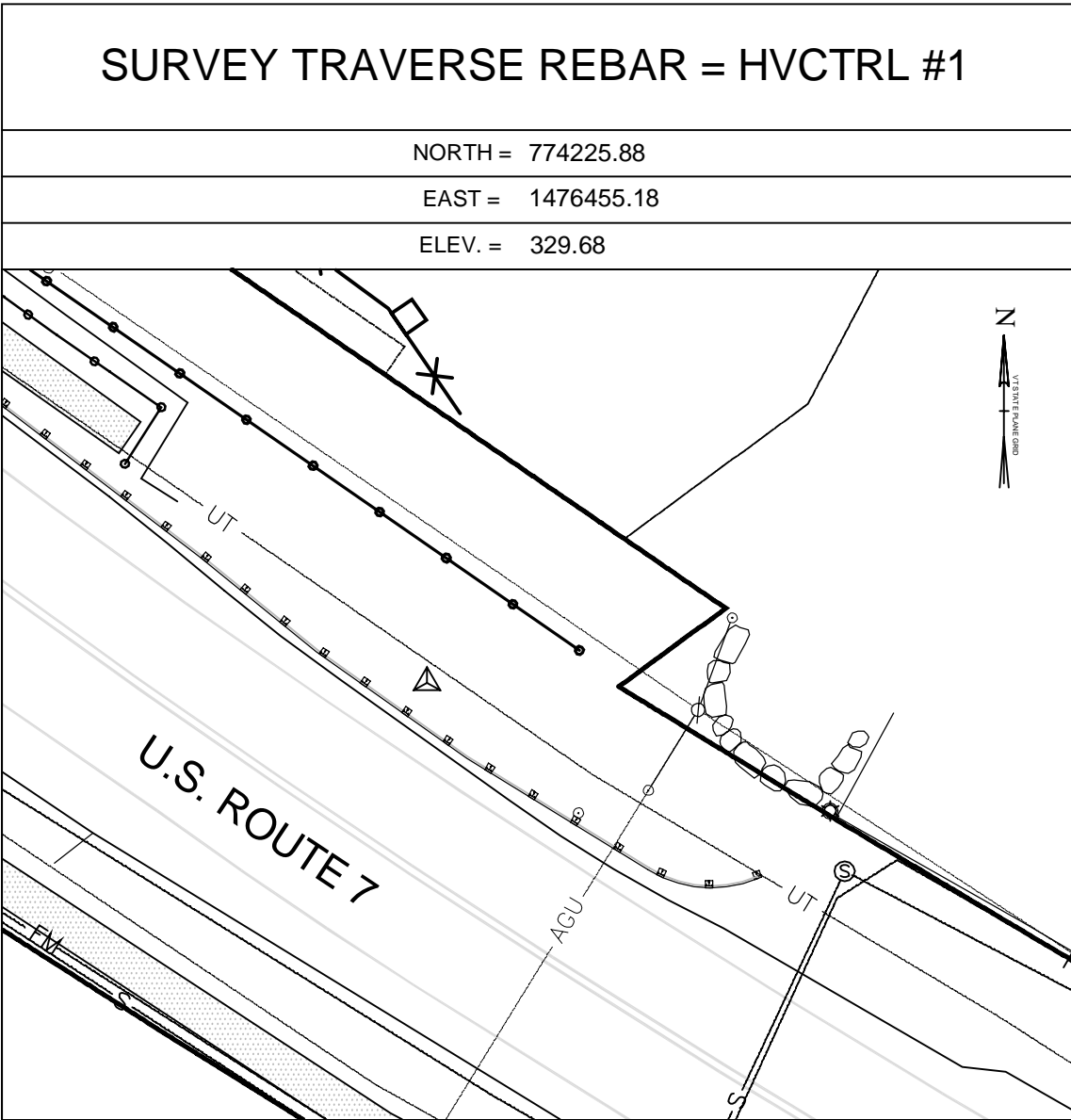
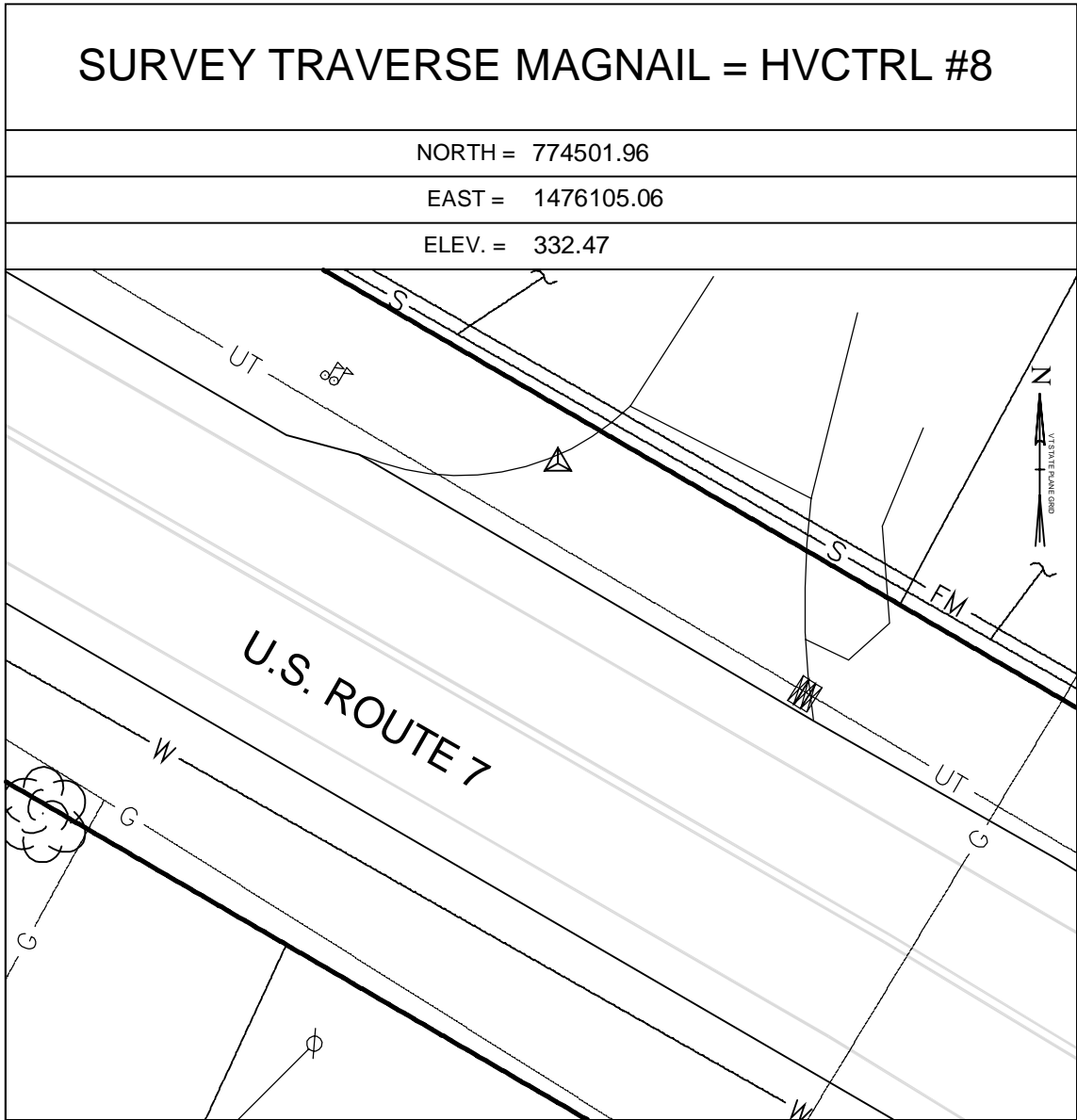
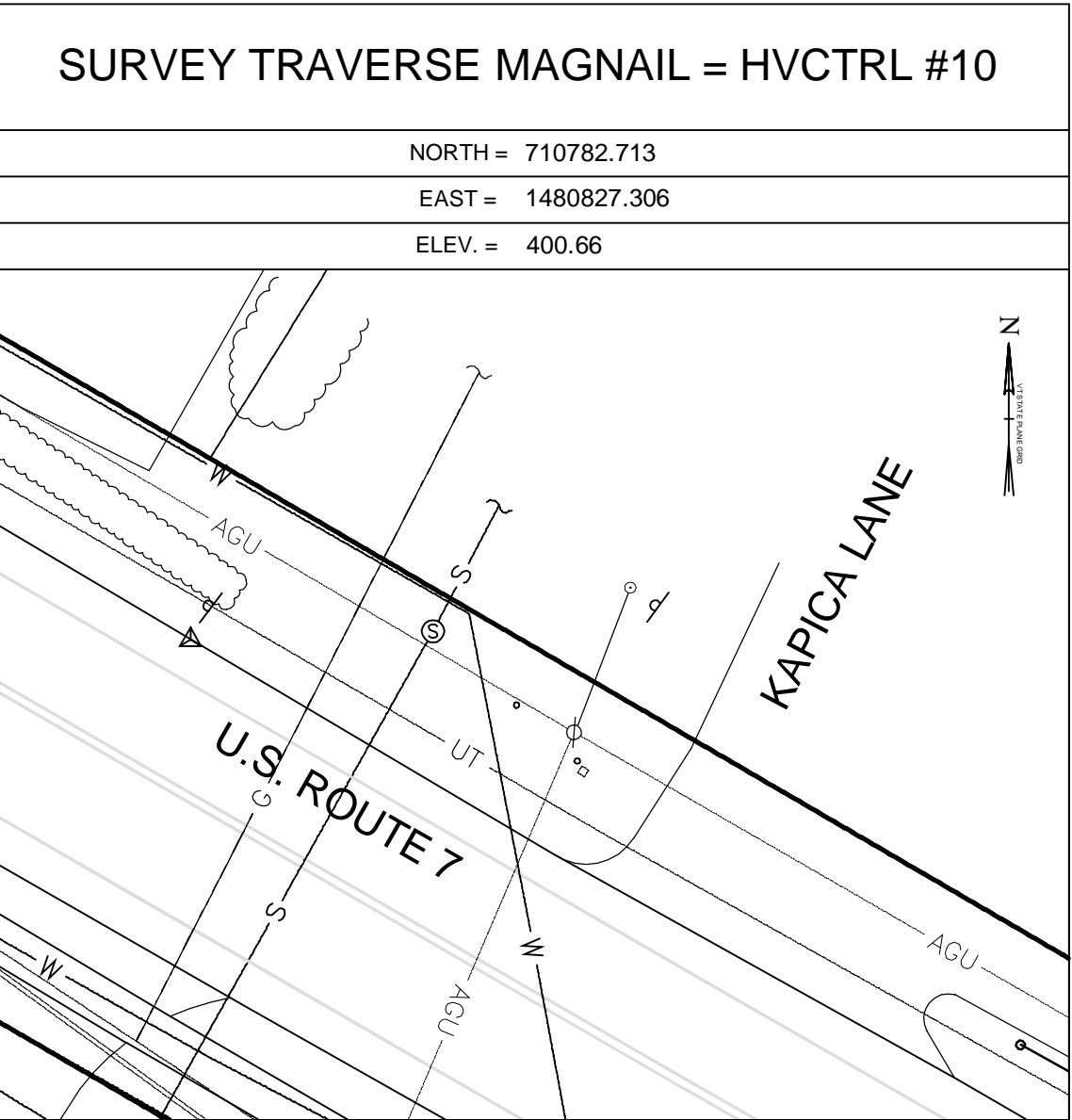
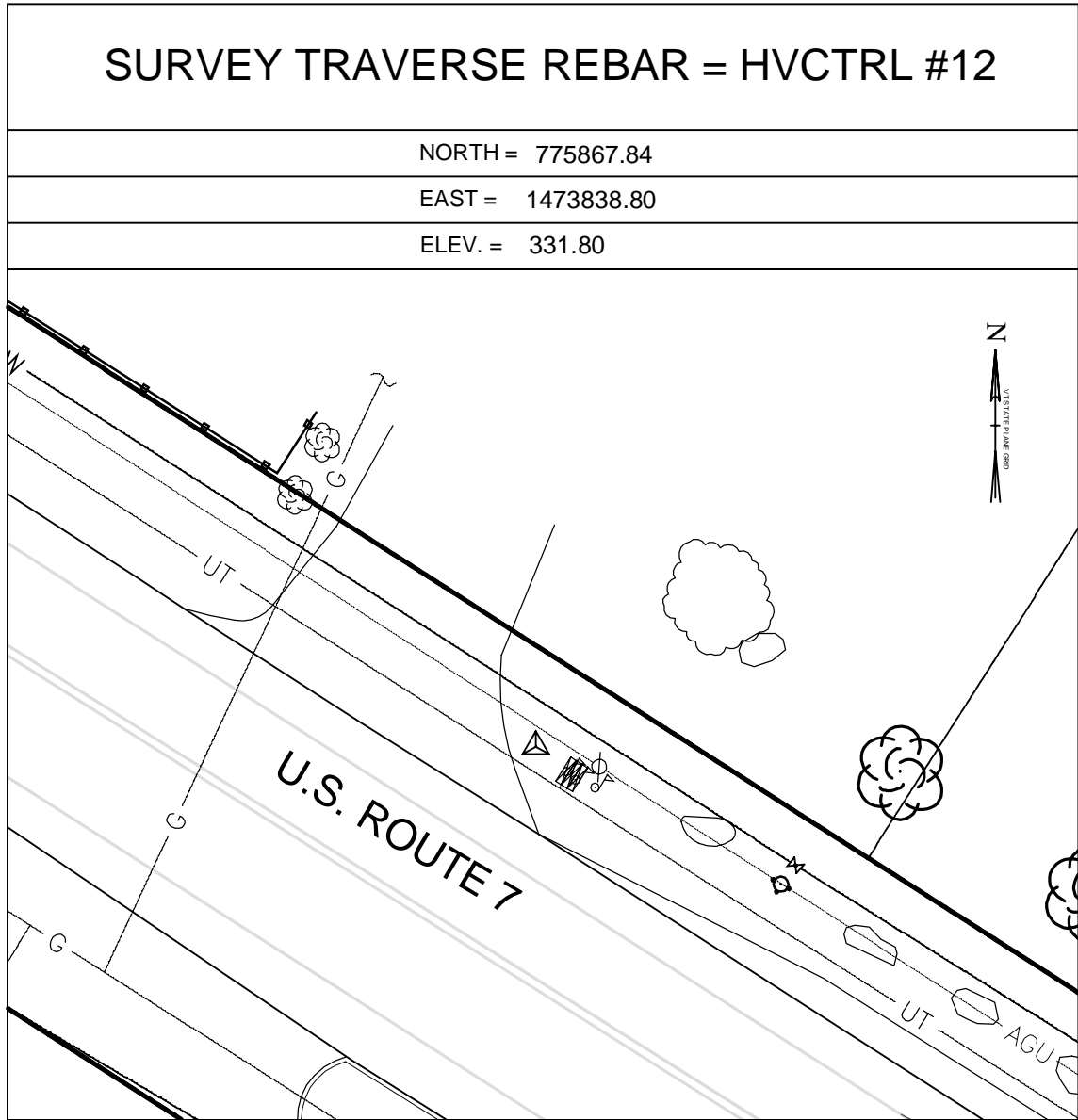
STATION RECOVERY (2004)  
RECOVERY NOTE BY GEOCACHING 2004 (PJG)  
THE BUILDING IS NO LONGER R AND M MOTORS, BUT MARK'S AUTO REPAIR. THE GAS PUMPS ARE GONE, BUT THE ISLAND IS STILL PRESENT.

STATION RECOVERY (2009)  
RECOVERY NOTE BY VERMONT GEODETIC SURVEY 2009 (CHR)  
RECOVERED IN GOOD CONDITION. GARAGE IS NOW MARKS AUTO REPAIR.  
TO REACH FROM THE INTERSECTION OF US ROUTES 2 AND 7 AT CHIMNEY CORNERS IN COLCHESTER, GO NORTH ALONG US ROUTE 7 FOR 3.5 MI (5.6 KM) TO THE SITE OF THE MARK ON THE LEFT.

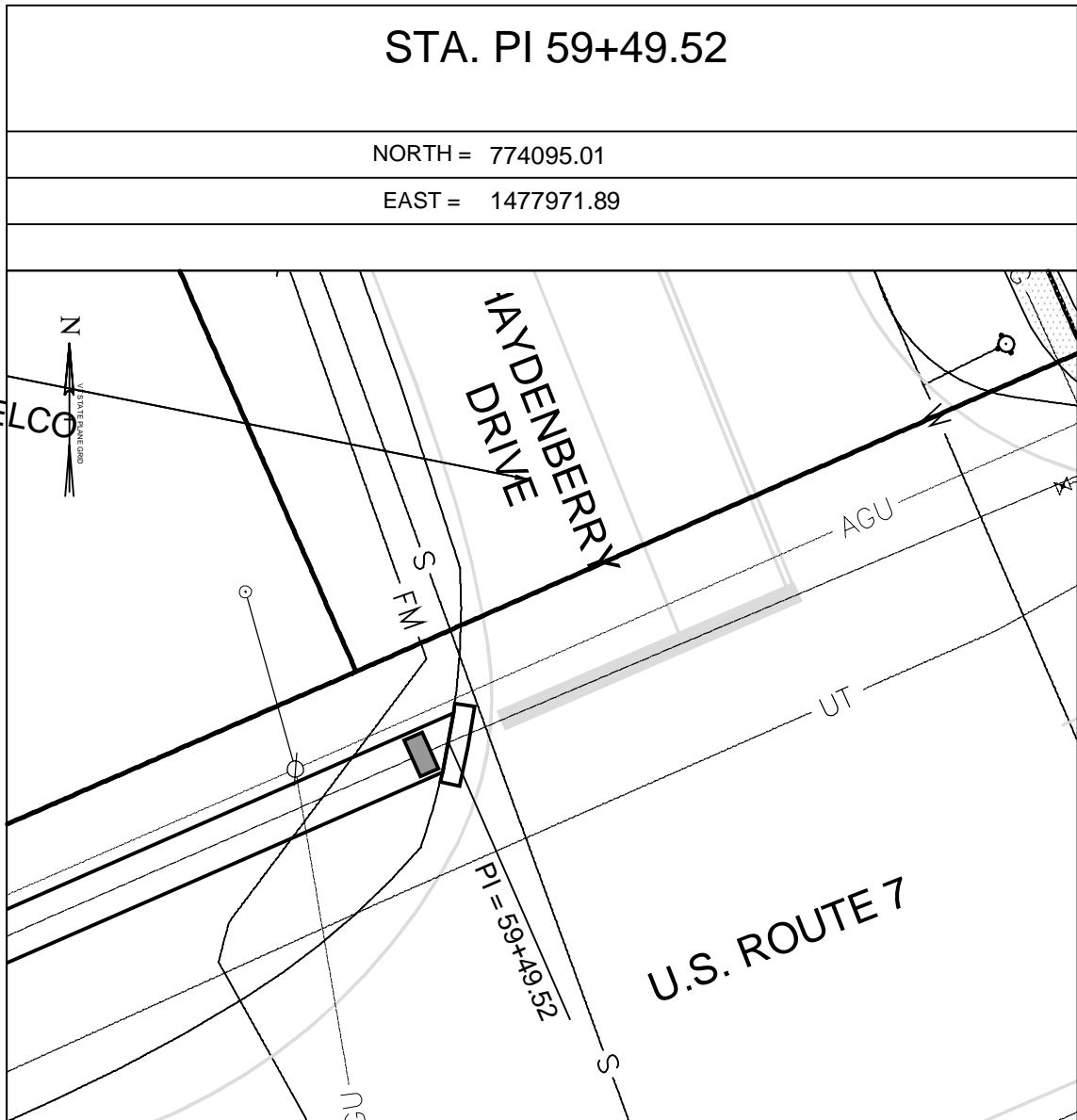
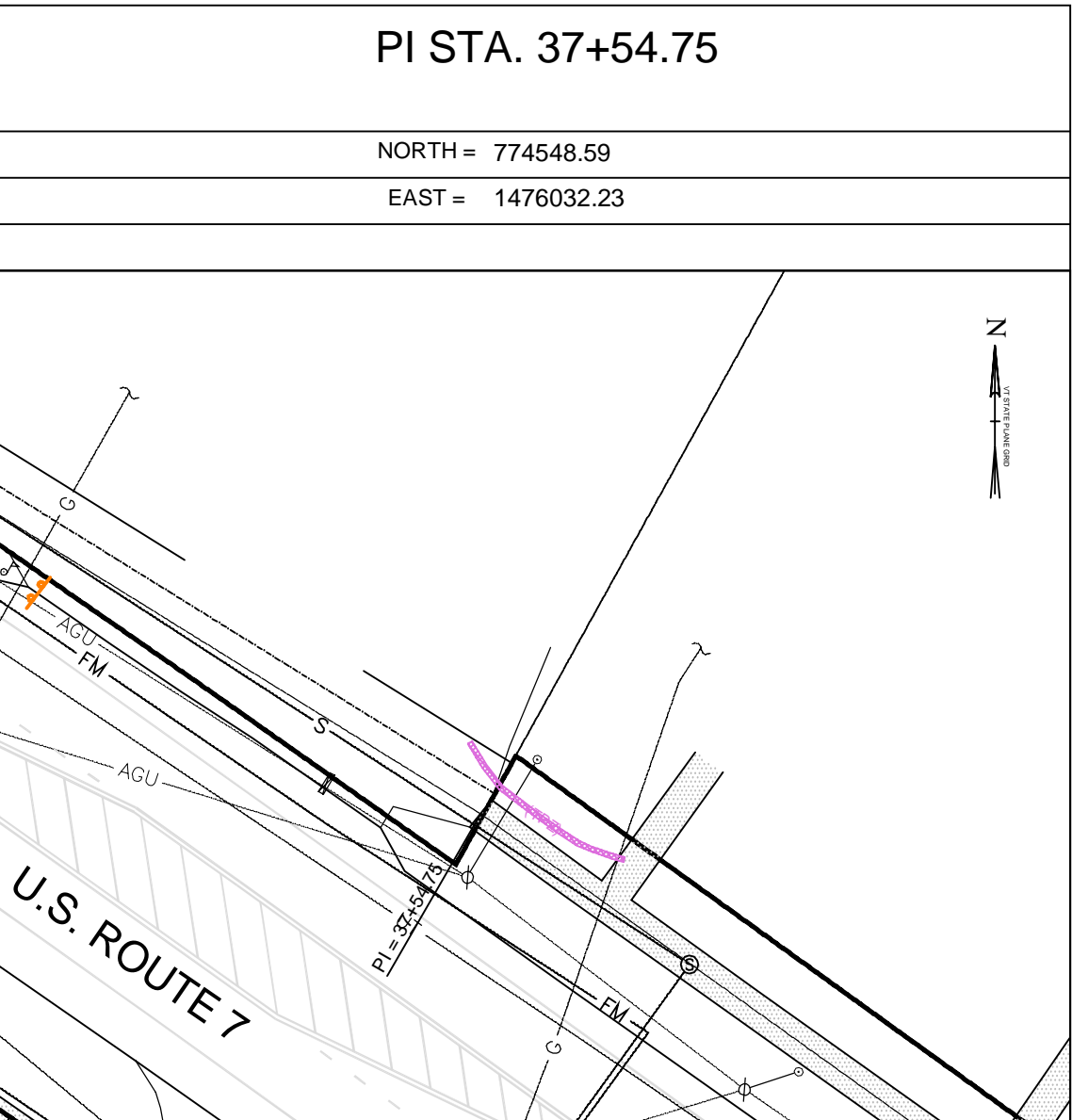
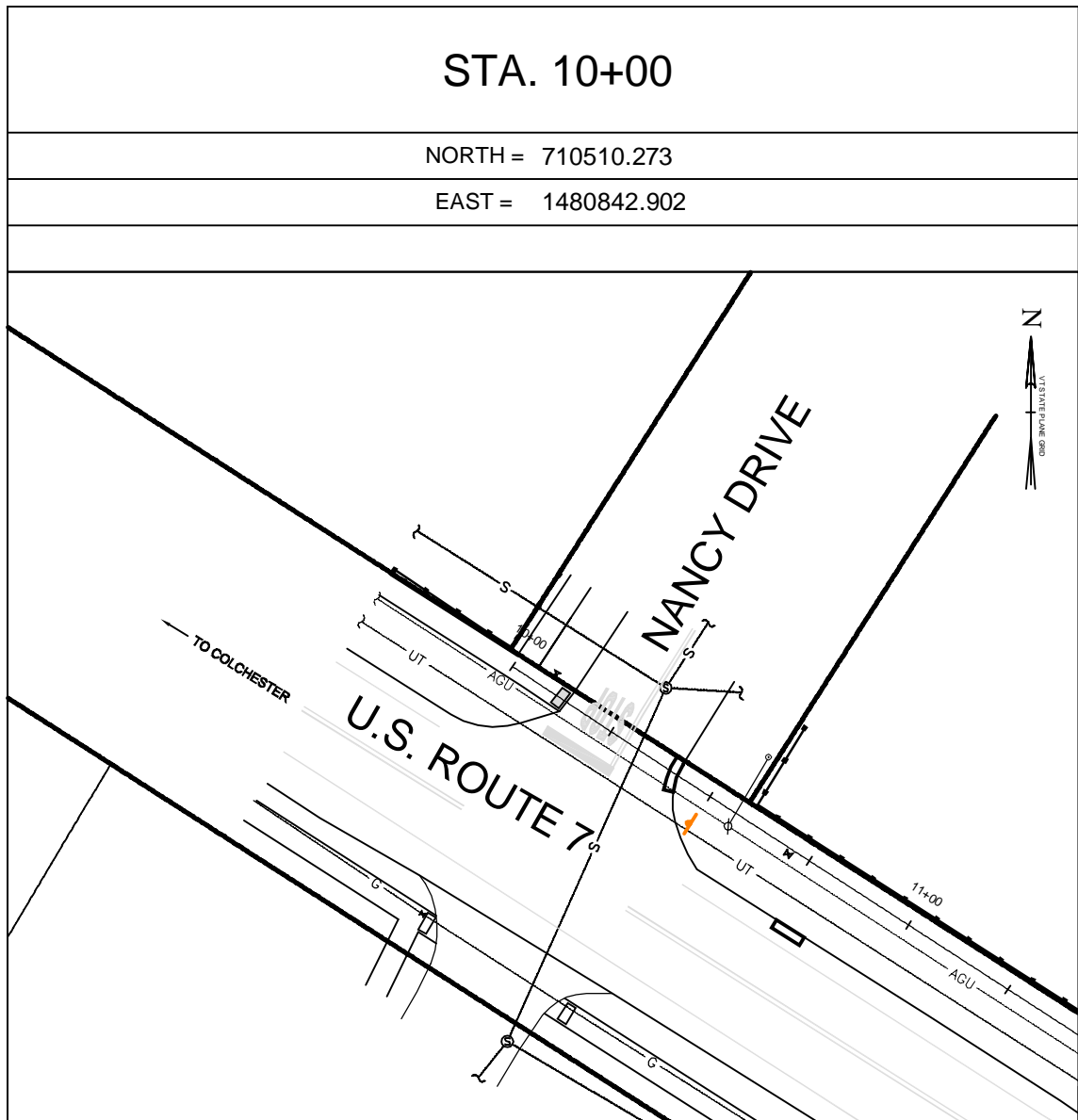
STATION RECOVERY (2010)  
RECOVERY NOTE BY VERMONT GEODETIC SURVEY 2010 (BJH)  
RECOVERED AS DESCRIBED.

STATION RECOVERY (2017)  
RECOVERY NOTE BY LAMOUREUX & DICKINSON (KMR)  
RECOVERY AS DESCRIBED. GARAGE IS NOW 371 ROUTE 7 SOUTH (TIMBERLAKE ASSOCIATES)

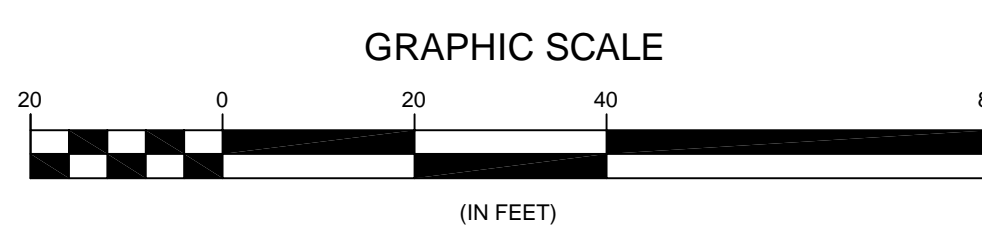
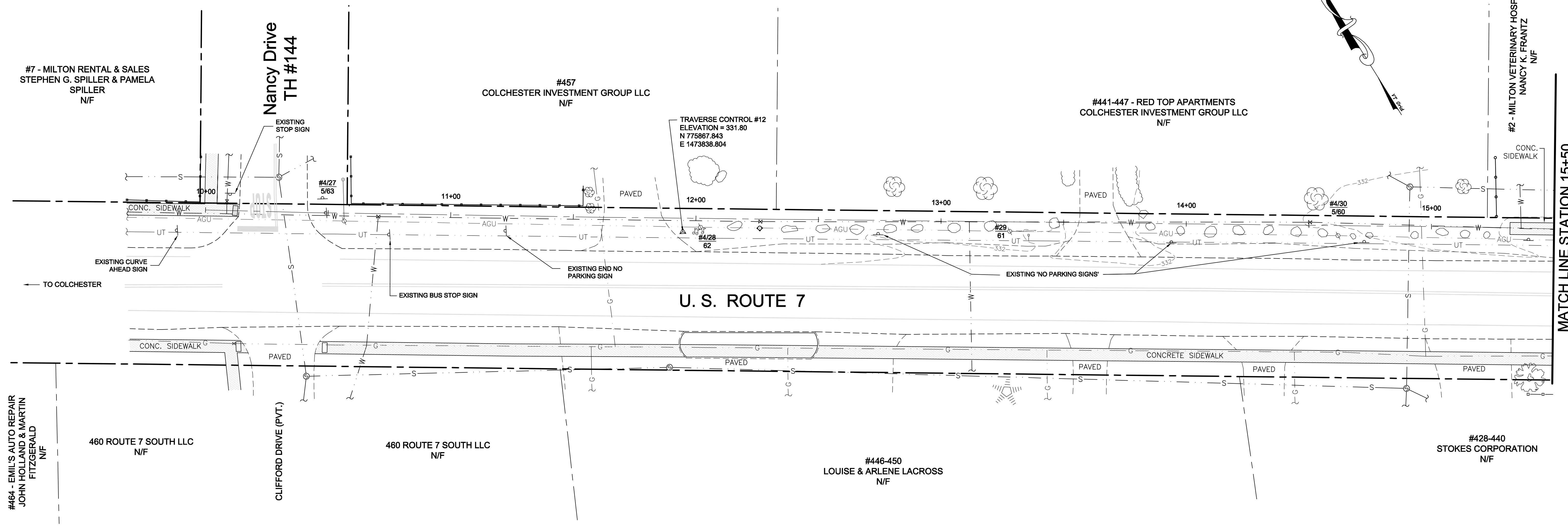
TRAVERSE TIES



ALIGNMENT TIES







PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
 PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
 PROJECT LEADER: DH  
 DESIGNED BY: DH  
 EXISTING CONDITIONS

PLOT DATE: JUNE 25, 2019  
 DRAWN BY: WH  
 CHECKED BY: RD  
 SHEET 7

**L** Lamoureux & Dickinson  
 Consulting Engineers, Inc.  
 14 Morse Drive, Essex, VT 05452  
 802-878-4450 www.LDengineering.com



MATCH LINE STATION 15+50

MATCH LINE STATION 21+50

#2 - MILTON VETERINARY HOSPITAL  
NANCY K. FRANTZ  
N/F

CHRISEMILY LANE  
TH #146

COMMON LAND  
CHECKERBERRY BUSINESS CORP.  
N/F

#423  
TONY GABEL  
N/F

#419  
MILTON MOBILE HOME  
COOPERATIVE, INC  
N/F

TRAVERSE CONTROL #11  
ELEVATION = 332.19  
N 775801.239  
E 1474245.456

CONCRETE SIDEWALK

CONC. WALK

16+00

17+00

18+00

19+00

20+00

21+00

#4/31  
59

EXISTING "BEGIN NO PARKING" SIGN

#32  
58

#33  
5/57

#4/34  
56

U. S. ROUTE 7

CONCRETE SIDEWALK

PAVED

CONCRETE SIDEWALK

#428-440  
SARAH MARIE MOTOR COURT  
STOKES CORP.  
N/F

#426  
LYNN E. & DAWN  
EVANS  
N/F

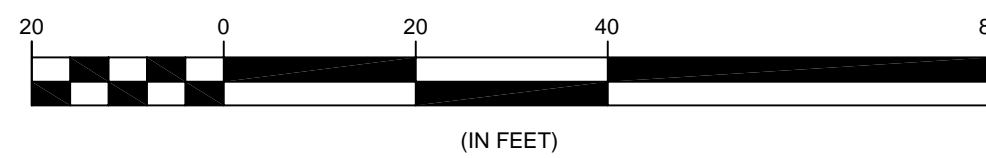
MASON DRIVE  
(PVT.)

ROGER &  
LUCILLE  
RUSHLOW  
N/F

#420  
ARROWHEAD  
POWER  
EQUIPMENT, LLC  
N/F

TOWN OF MILTON  
N/F

GRAPHIC SCALE



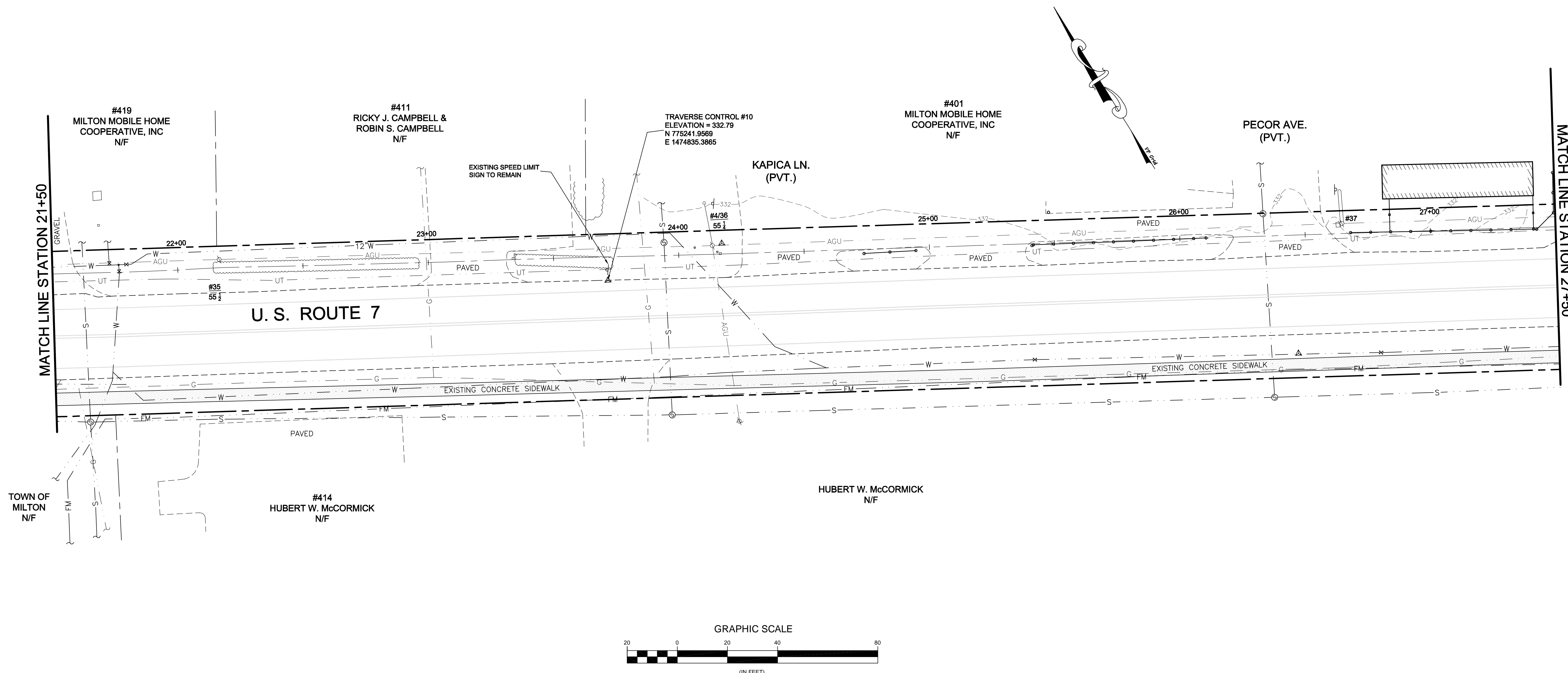
**L** Lamoureux & Dickinson  
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14 Morse Drive, Essex, VT 05452  
802-878-4450 www.LDengineering.com

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EXISTING CONDITIONS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 8





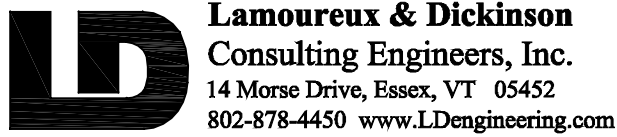
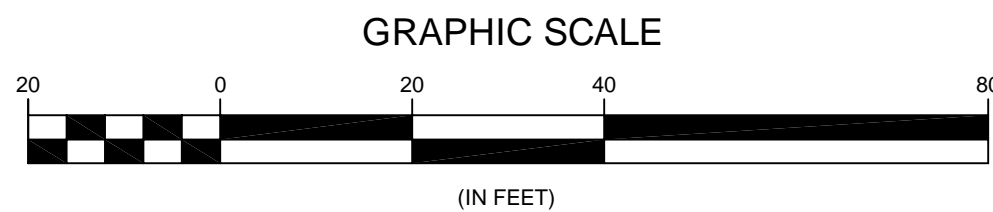
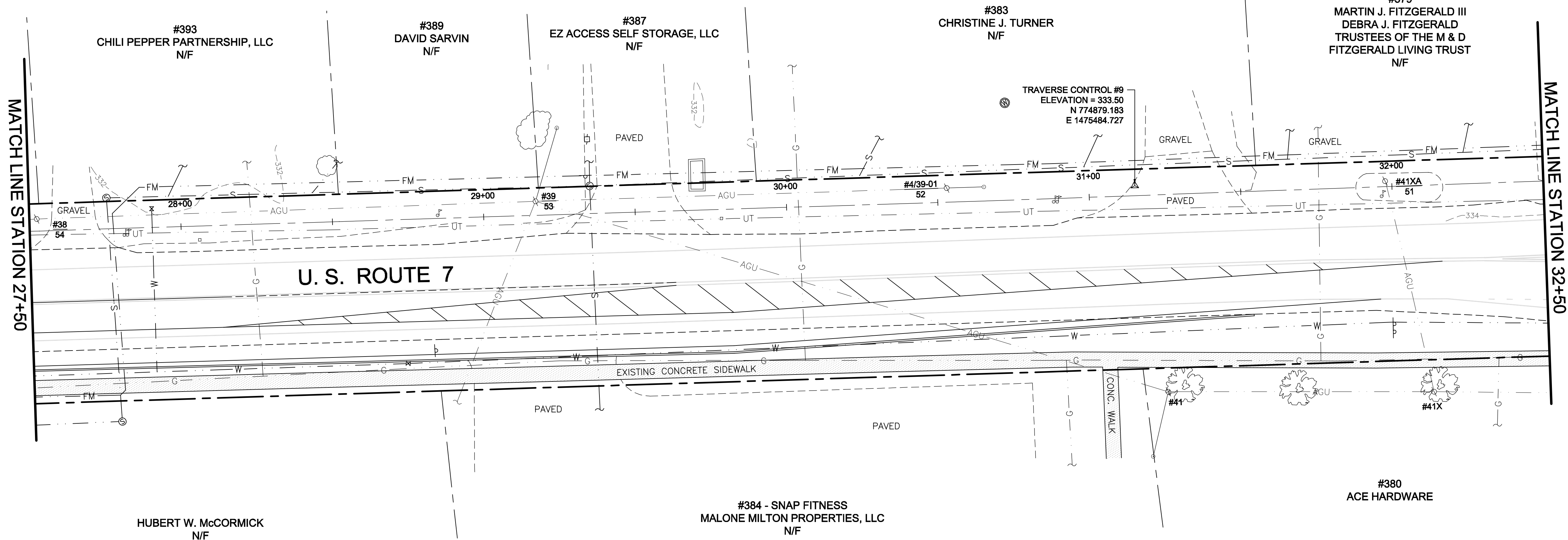
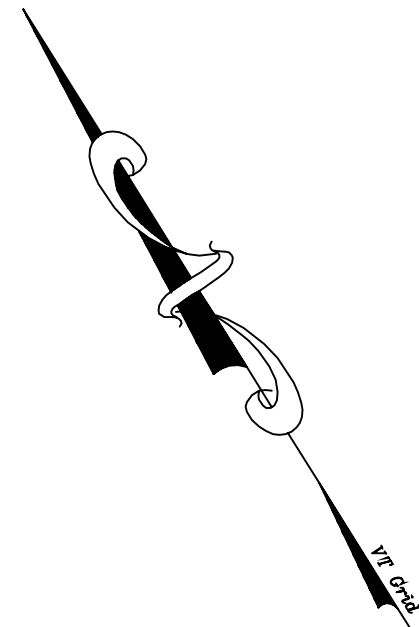
PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
EXISTING CONDITIONS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 9

**L** Lamoureux & Dickinson  
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PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 10



#379  
MARTIN J. FITZGERALD III  
DEBRA J. FITZGERALD  
TRUSTEES OF THE M & D  
FITZGERALD LIVING TRUST  
N/F

#371  
TIMBERLAKE ASSOCIATES, LLP  
N/F

#361  
LOREN HOGABOOM  
N/F

#359 - MILTON AUTO SALES  
MARK RUSSELL & LISA  
RUSSELL  
N/F

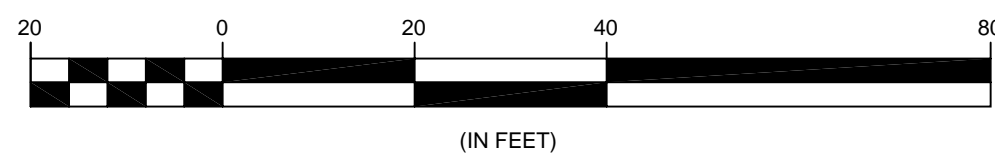
SOUTHERLY SIDE OF US RT 7 LLC  
N/F

#3  
LAURA B'S  
RESTAURANT

SOUTHERBERRY  
DRIVE  
(PVT.)

#4 - BOND AUTO  
F E B REALTY, LLC  
N/F

GRAPHIC SCALE



PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
EXISTING CONDITIONS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 11

**L** Lamoureux & Dickinson  
Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
802-878-4450 www.LDEngineering.com



TRAVERSE CONTROL #8  
ELEVATION = 332.47  
N 774501.96  
E 1476105.062

#349 - SAWYER BUILDING  
HAYDENBERRY HOLDINGS LLC  
N/F

BOYSENBERRY  
DRIVE  
(PVT)

HAYDENBERRY HOLDINGS LLC  
N/F

MILTON SHOPPING CENTER, LLC  
N/F

MATCH LINE STATION 38+00

MATCH LINE STATION 43+00

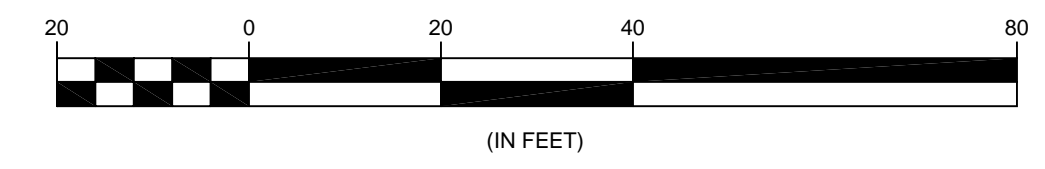
#354 - VERMONT WAGEN WORKS  
ARMAND TURNER & BONNIE  
TURNER  
N/F

#346  
ARMAND TURNER &  
BONNIE TURNER  
N/F

#338 - PREMIER TIRE  
ROBERT & MARCHIA  
METIVIER  
N/F

U. S. ROUTE 7

GRAPHIC SCALE



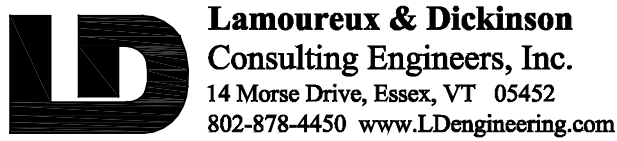
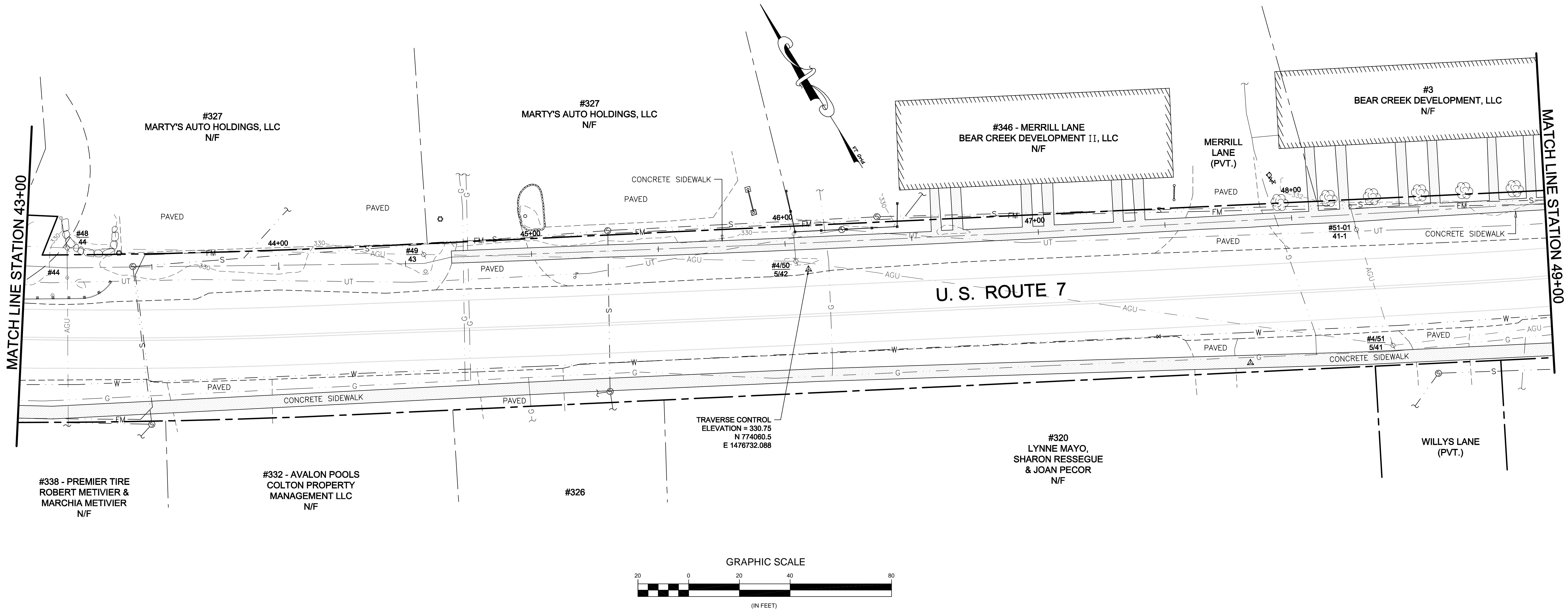
**L** Lamoureux & Dickinson  
Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
802-878-4450 www.LDEngineering.com

PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
EXISTING CONDITIONS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 12



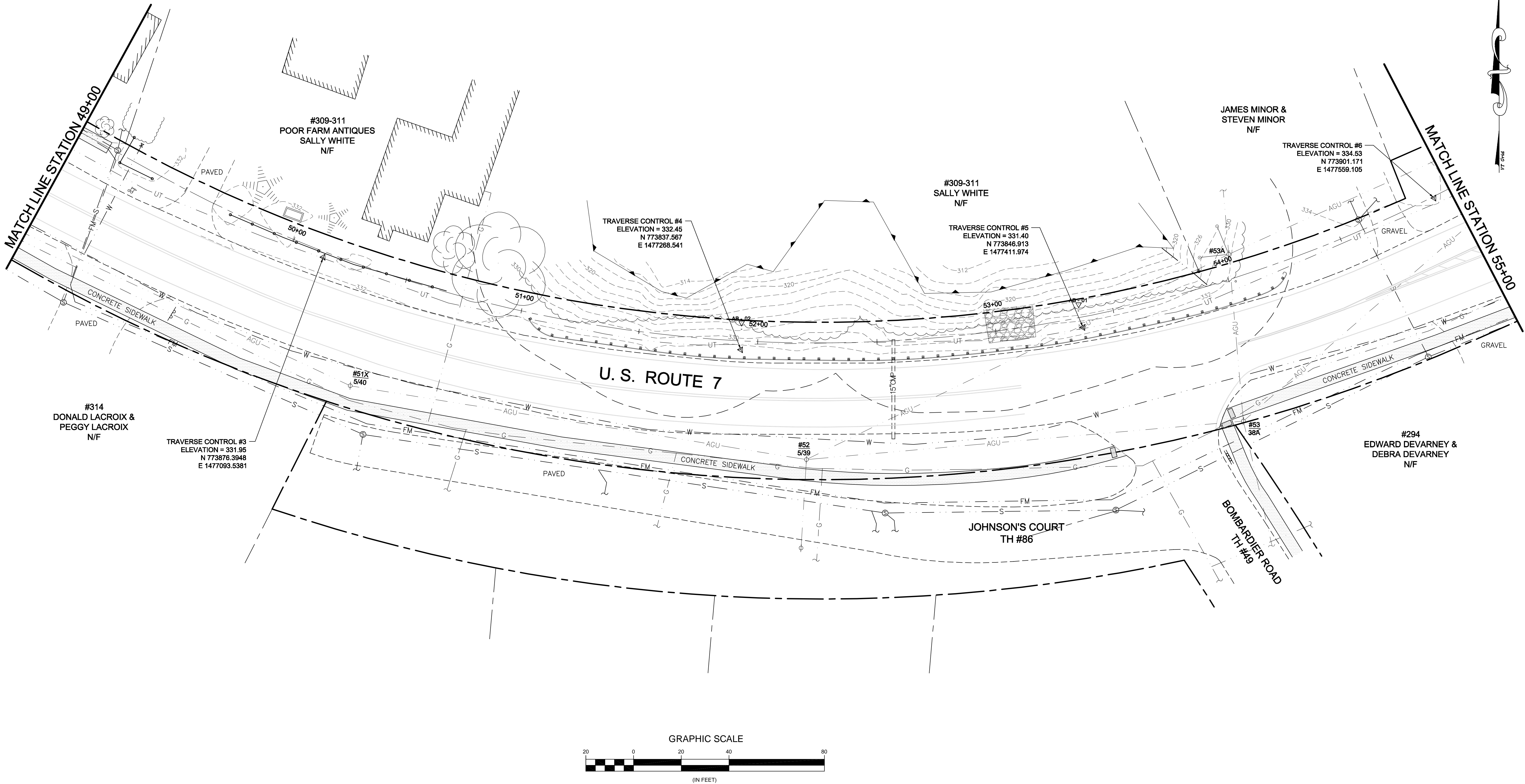


PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
EXISTING CONDITIONS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 13





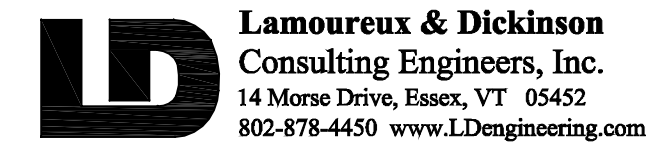
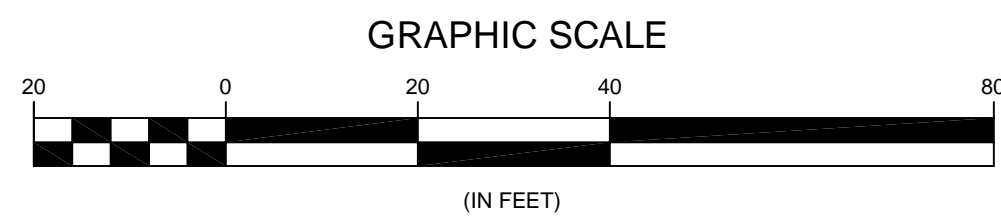
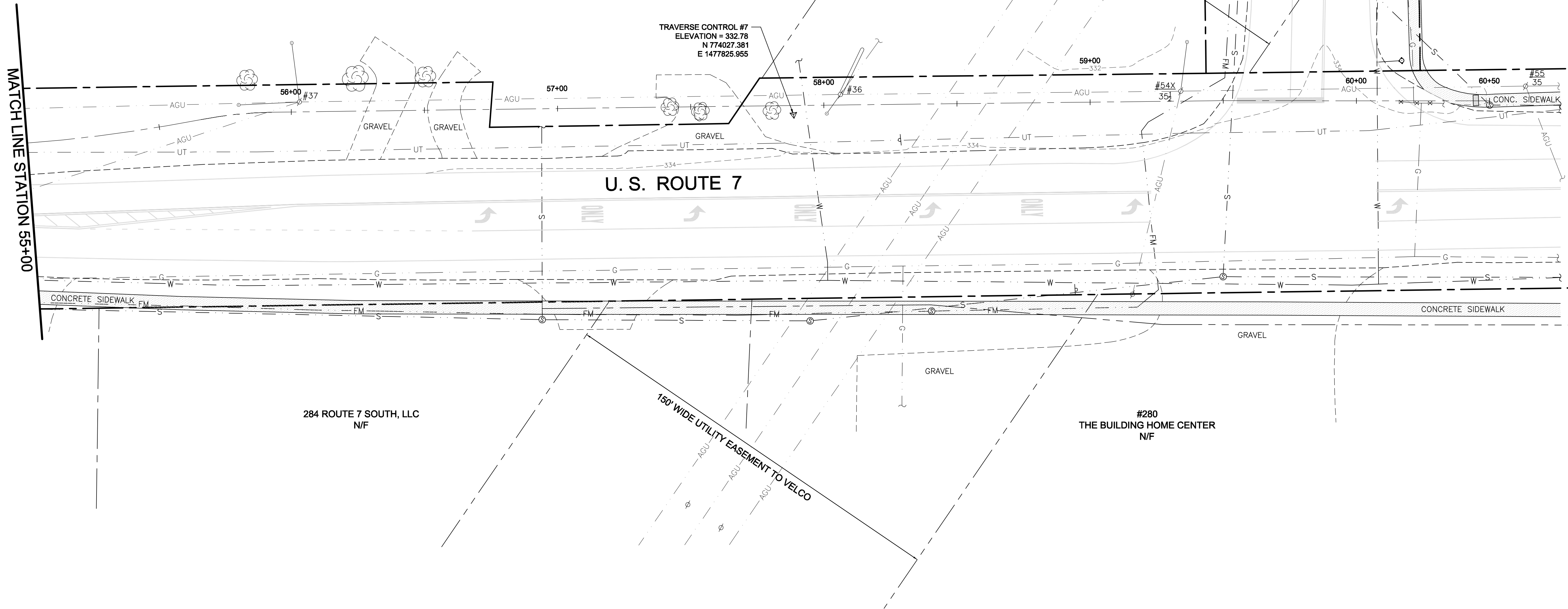
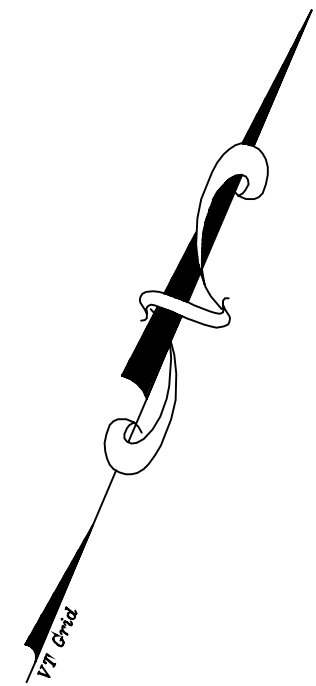
PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
EXISTING CONDITIONS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 14

**L** Lamoureux & Dickinson  
Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
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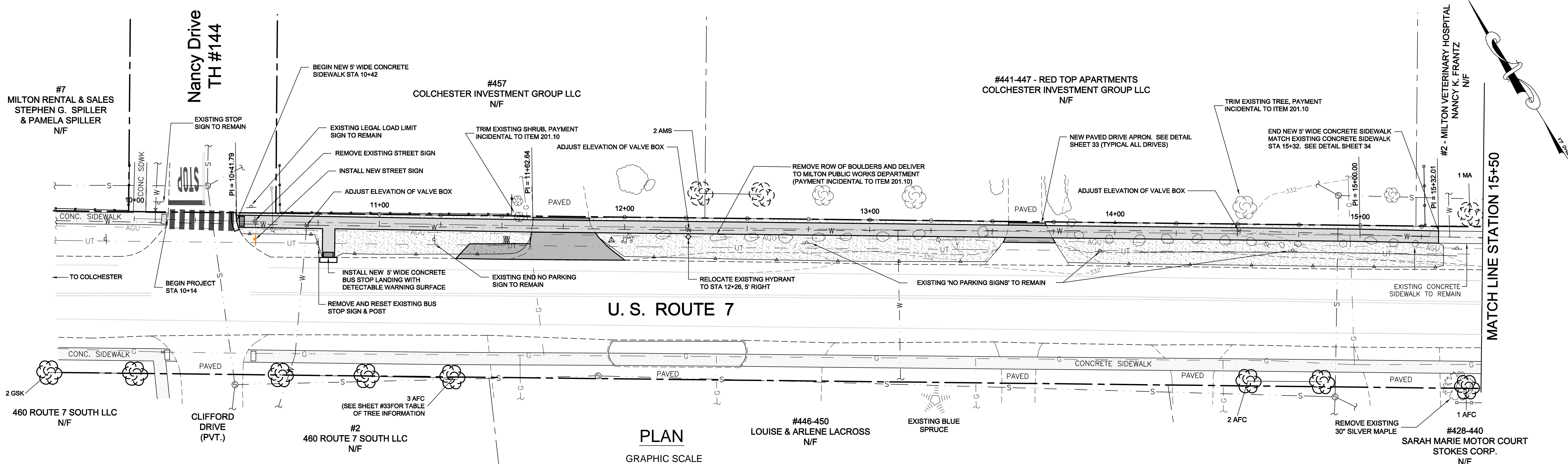


PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
EXISTING CONDITIONS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 15

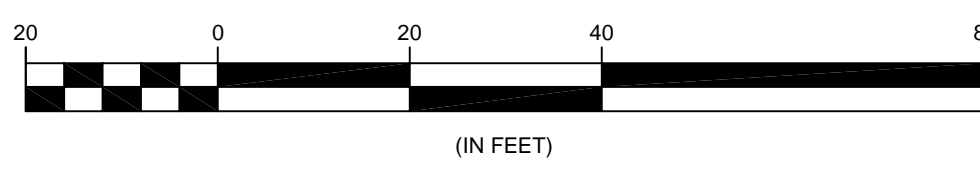




U. S. ROUTE 7

PLAN

GRAPHIC SCALE



CENTERLINE DATA

STATION	TO	STATION	Δ	R	I	L
10+00.00	PI 10+41.79		S 56° 32' 24" E			41.79'
PI 10+41.79	PI 11+62.64		S 57° 04' 53" E			120.85'
PI 11+62.64	PI 15+00.00		S 57° 21' 16" E			337.36'
PI 15+00.00	PI 15+32.01		S 56° 39' 38" E			32.01'
PI 15+32.01	PI 17+36.37		S 57° 29' 34" E			204.36'

SURVEY CONTROL DATA						
DESC	NORTHING	EASTING	ELEVATION	STATION	OFFSET	
TRAVBAR 12	775867.8430	1473838.8040	331.8000	11+94.72	5.54 RT	
TRAVBAR 11	775601.2390	1474245.4560	332.1920	16+80.92	10.63' RT	
10+00 CL	775978.5249	1473678.4717				
PI 15+00.00	775707.8231	1474098.8481				

- ITEM 201.15 REMOVING MEDIUM TREES  
STA 15+41 RT
- ITEM 617.10 REMOVE AND RESET MAILBOX SINGLE SUPPORT  
STA 11+52 RT (3)
- ITEM 618.11 PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH  
STA 11+57 TO STA 11+90  
STA 13+50 TO STA 13+80
- ITEM 618.30 DETECTABLE WARNING SURFACE  
STA 10+42  
STA 10+79

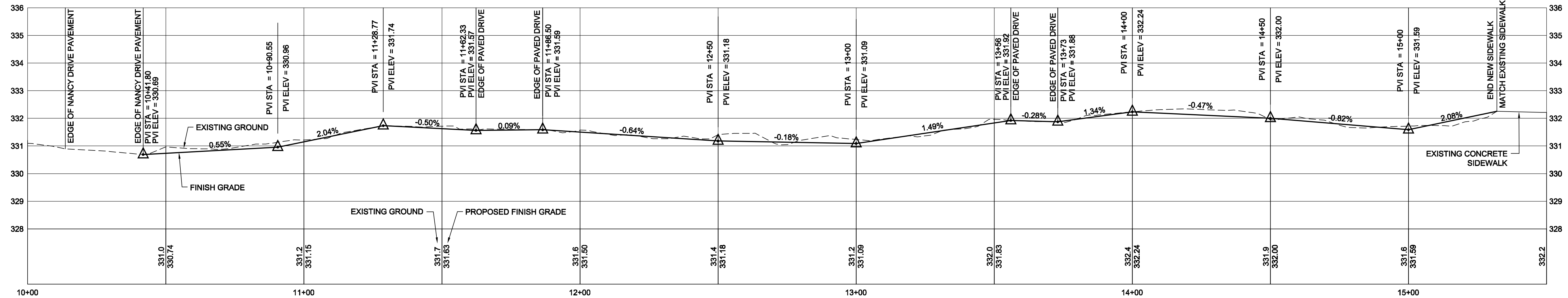
- ITEM 629.20 ADJUST ELEVATION OF VALVE BOX  
STA 10+70 RT  
STA 12+26 RT  
STA 14+50 LT
- ITEM 629.29 RELOCATE HYDRANT  
STA 12+26 RT
- ITEM 646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
STA 10+14 LT TO STA 10+29 LT
- ITEM 646.4913 DURABLE LETTER OR SYMBOL, TYPE C TAPE  
STA 10+18 LT TO STA 10+26 LT

- ITEM 646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC  
STA 10+14 LT TO STA 10+42 LT
- ITEM 646.85 REMOVAL OF EXISTING PAVEMENT MARKINGS  
"STOP"  
24" STOP BAR  
4" LINE
- ITEM 675.20 TRAFFIC SIGN, TYPE A  
STA 10+49 STREET SIGN

- ITEM 675.341 SQUARE TUBE SIGN, POST AND ANCHOR  
STA 10+49
- ITEM 675.50 REMOVING SIGNS  
STA 10+49 STREET SIGN  
STA 10+75 BUS STOP SIGN
- ITEM 675.60 RESETTING SIGNS  
STA 10+75 BUS STOP SIGN
- ITEM 675.61 SETTING SALVAGED POSTS  
STA 10+75 BUS STOP SIGN

- ITEM 656.30 DECIDUOUS TREES  
STA 9+67 RT. (GLEDITSIA TRICANTHOS 'STREET KEEPER')  
STA 10+02 RT. (GLEDITSIA TRICANTHOS 'STREET KEEPER')  
STA 10+60 RT. (ACER FREEMANI CELEBRATION)  
STA 10+95 RT. (ACER FREEMANI CELEBRATION)  
STA 11+31 RT. (ACER FREEMANI CELEBRATION)  
STA 14+55 RT. (ACER FREEMANI CELEBRATION)  
STA 14+85 RT. (ACER FREEMANI CELEBRATION)  
STA 15+45 RT. (ACER FREEMANI CELEBRATION)

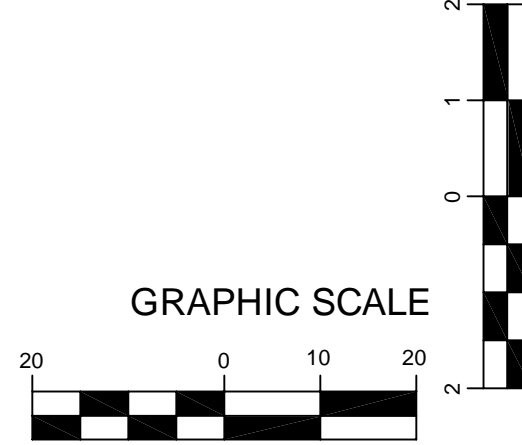
- ITEM 900.620 SPECIAL PROVISION (DECIDUOUS TREES - NON PARTICIPATING)  
STA 12+31 LT. (ACER MIYABEI 'STATE STREET')  
STA 12+55 LT. (ACER MIYABEI 'STATE STREET')  
STA 15+44 LT. (MALUS ADIRONDAC)
- ITEM 900.675 SPECIAL PROVISION (PORTLAND CEMENT CONCRETE SIDEWALK, 6 INCH)  
STA 10+42 TO STA 11+57  
STA 10+76 TO STA 10+83 (BUS STOP)  
STA 11+90 TO STA 13+50  
STA 13+80 TO STA 15+32



PROFILE

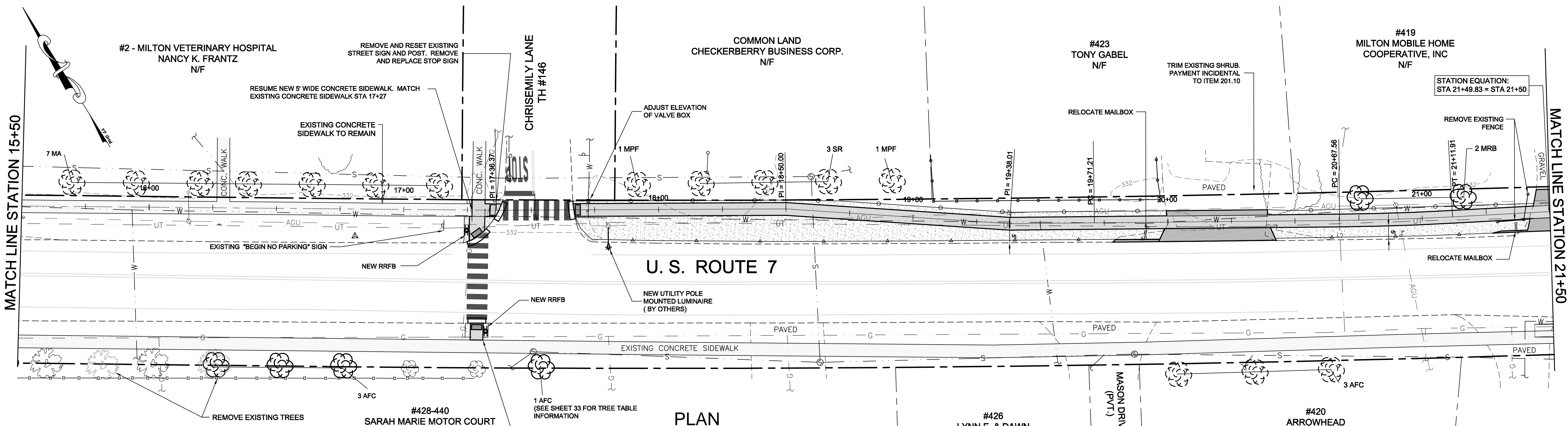
STA. 10+00 TO 15+50

GRAPHIC SCALE



PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT	
PROJECT NUMBER: MILTON STP BP16(10)	
L&D PROJECT #: 17052	PLOT DATE: JUNE 25, 2019
PROJECT LEADER: DH	DRAWN BY: WH
DESIGNED BY: DH	CHECKED BY: RD
LAYOUT PLAN AND PROFILE	SHEET 16





CENTERLINE DATA

STATION	TO	STATION	Δ	R	T	L
PI 15+32.01	PI 17+36.37		S 57° 29' 34" E			204.36'
PI = 17+36.37	PI = 18+50.00		S 58° 15' 50" E			113.63'
PI = 18+50.00	PI = 19+38.01		S 54° 13' 09" E			88.01'
PI = 19+38.01	PC = 20+67.56		S 58° 33' 57" E			129.55'
PC = 20+67.56	PT = 21+11.91		2° 32' 27" -1,000.00'	22.18'		44.35'
PT = 21+11.91	PC = 21+91.22		S 61° 06' 24" E			79.31' (79.48'-0.17')
STA 21+50 =	STA 20+49.83 (-0.17)					

SURVEY CONTROL DATA					
NUMBER	NORTHING	EASTING	ELEVATION	STATION	OFFSET
TRAVBAR 12	775867.8430	1473838.8040	331.8000	11+94.72	5.54' RT
TRAVBAR 11	775601.2390	1474245.4560	332.1920	16+80.92	10.63' RT
PI 17+36.37	775580.41	1474297.93			
PI 18+50.00	775520.64	1474394.57			
PI 19+38.01	775469.18	1474465.99			
PC 20+67.56	775401.62	1474576.50			
PT 21+11.91	775379.34	1474614.84			
PC 21+91.22	775340.93	1474684.43			

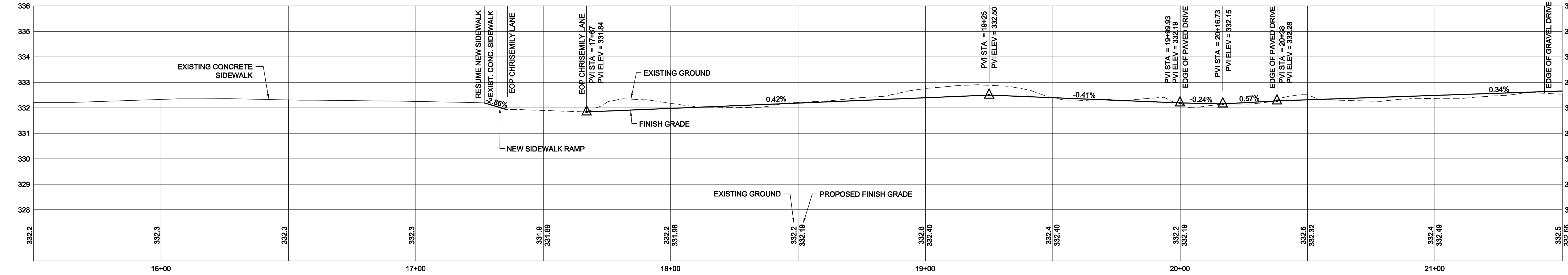
- ITEM 201.15 REMOVING MEDIUM TREES  
STA 15+84 RT  
STA 16+28 RT
- ITEM 617.10 REMOVE AND RESET MAILBOX  
SINGLE SUPPORT  
STA 19+92 RT  
STA 21.36 RT
- ITEM 618.11 PORTLAND CEMENT CONCRETE  
SIDEWALK, 8 INCH  
STA 19+95 TO STA 20+45  
STA 21+37 TO STA 21+50
- ITEM 618.30 DETECTABLE WARNING SURFACE  
STA 17+29 (2)  
STA 17+34  
STA 17+68
- ITEM 620.55 REMOVAL OF EXISTING FENCE  
STA 21+18 - STA 21+41

- ITEM 629.20 ADJUST ELEVATION OF VALVE BOX  
STA 17+71
- ITEM 646.482 DURABLE 24" STOP BAR, THERMOPLASTIC  
STA 17+39 LT TO STA 17+51 LT
- ITEM 646.4913 DURABLE LETTER OR SYMBOL,  
TYPE C TAPE  
STA 17+40 LT TO STA 17+50 LT
- ITEM 646.502 DURABLE CROSSWALK  
MARKING, THERMOPLASTIC  
STA 17+30 RT  
STA 17+37 TO STA 17+66
- ITEM 646.85 REMOVAL OF EXISTING PAVEMENT  
MARKINGS  
"STOP"  
24" STOP BAR  
4" LINE

- ITEM 656.30 DECIDUOUS TREES  
STA 16+27 RT. (ACER FREEMANI CELEBRATION)  
STA 16+52 RT. (ACER FREEMANI CELEBRATION)  
STA 16+77 RT. (ACER FREEMANI CELEBRATION)  
STA 17+55 RT. (ACER FREEMANI CELEBRATION)  
STA 20+76 LT. (MALUS RED BARON)  
STA 21+16 LT. (MALUS RED BARON)
- ITEM 675.20 TRAFFIC SIGN, TYPE A  
STA 17+36 STOP SIGN
- ITEM 675.50 REMOVING SIGNS  
STA 17+36 STREET SIGN / STOP SIGN
- ITEM 675.60 RESETTING SIGNS  
STA 17+36 STREET SIGN
- ITEM 675.61 RESETTING SALVAGED POSTS  
STA 17+36

- ITEM 900.620 SPECIAL PROVISION (DECIDUOUS  
TREES - NON PARTICIPATING)  
STA 15+69 LT. (MALUS ADIRONDACK)  
STA 15+94 LT. (MALUS ADIRONDACK)  
STA 15+44 LT. (MALUS ADIRONDACK)  
STA 16+20 LT. (MALUS ADIRONDACK)  
STA 16+39 LT. (MALUS ADIRONDACK)  
STA 16+63 LT. (MALUS ADIRONDACK)  
STA 16+89 LT. (MALUS ADIRONDACK)  
STA 17+91 LT. (MALUS PRAIRIE FIRE)  
STA 18+16 LT. (SYRINGA RETICULATA IVORY SILK)  
STA 18+41 LT. (SYRINGA RETICULATA IVORY SILK)  
STA 18+66 LT. (SYRINGA RETICULATA IVORY SILK)  
STA 18+91 LT. (MALUS PRAIRIE FIRE)  
STA 20+02 RT. (ACER FREEMANI CELEBRATION)  
STA 20+32 RT. (ACER FREEMANI CELEBRATION)  
STA 20+63 RT. (ACER FREEMANI CELEBRATION)

- ITEM 900.620 SPECIAL PROVISION (RECTANGULAR  
RAPID FLASHING BEACON, CHRISEMILY LANE)  
STA 17+25  
STA 17+32
- ITEM 900.675 SPECIAL PROVISION (PORTLAND  
CEMENT CONCRETE SIDEWALK, 6 INCH)  
STA 17+27 TO STA 17+37  
STA 17+66 TO STA 19+95  
STA 20+45 TO STA 21+37



PROFILE  
STA. 15+50 TO 21+50

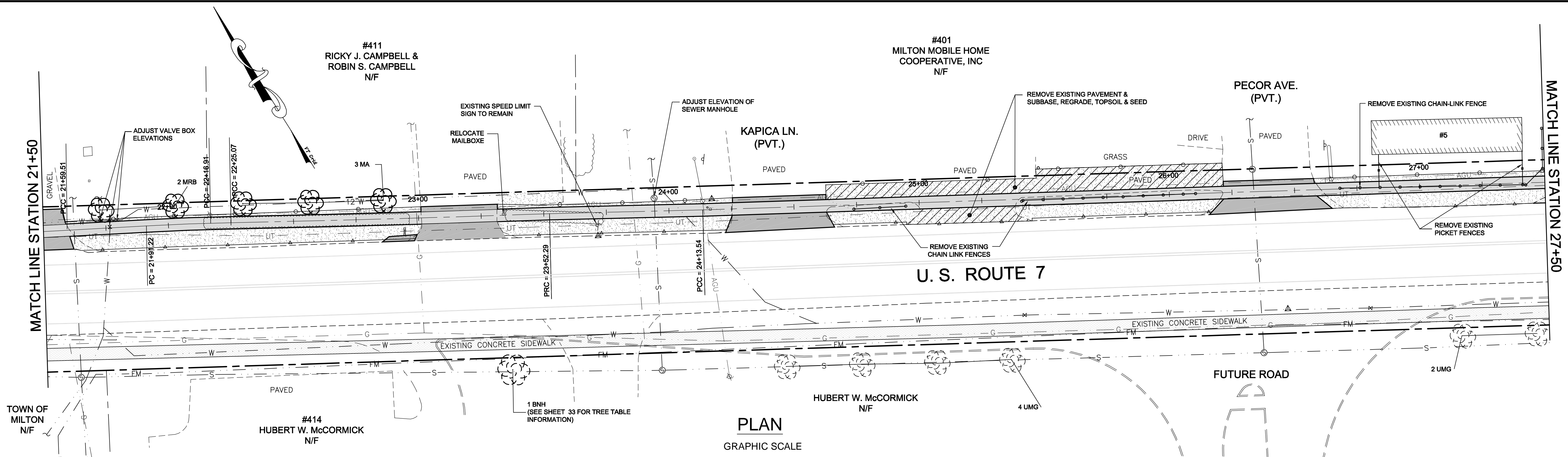
PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
LAYOUT PLAN AND PROFILE

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 17

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CENTERLINE DATA

STATION	TO	STATION	Δ	R	T	L
PT = 21+11.91	PC = 21+91.22	S 61° 06' 24" E				79.31' (79.48'-0.17')
STATION 21+50 = STATION 20+49.83 (-0.17)						
PC = 21+91.22	PCC = 22+25.07	01° 56' 23"	1,000.00'	16.93'	33.85'	
PCC = 22+25.07	PRC = 23+52.29	00° 59' 42"	-7,794.71'	67.69'	127.22'	
PRC = 23+52.29	PCC = 24+13.54	00° 01' 05"	192,916.78'	30.63'	61.26'	
PCC = 24+13.54	PCC = 27+53.29	00° 07' 38"	152,918.27'	169.87'	339.75'	

SURVEY CONTROL DATA						
NUMBER	NORTHING	EASTING	ELEVATION	STATION	OFFSET	
TRAVBAR 12	775867.8430	1473838.8040	331.8000	11+94.72	5.54' RT	
TRAVBAR 11	775601.2390	1474245.4560	332.1920	16+80.92	10.63' RT	
MAGNAIL 10	775241.9040	1474835.3560	332.7900	23+71.55	9.37' RT	
PT 21+11.91	775379.34	1474614.84				
PC 21+91.22	775340.93	1474684.43				
PCC 22+25.07	775324.08	1474713.78				
PRC 23+52.29	775259.77	1474823.55				
PCC 24+13.54	775228.59	1474876.27				

ITEM 604.42 CHANGING ELEVATION OF SEWER MANHOLES  
STA 23+94 LT

ITEM 617.10 REMOVE AND RESET MAILBOX SINGLE SUPPORT  
STA 22+94

ITEM 618.11 PORTLAND CEMENT CONCRETE  
SIDEWALK, 8 INCH  
STA 21+50 TO STA 21+65  
STA 22+96 TO STA 23+36  
STA 24+20 TO STA 24+68  
STA 26+16 TO STA 26+64

ITEM 620.55 REMOVAL OF EXISTING FENCE  
STA 24+73 - STA 24+95  
STA 25+41 - STA 26+10  
STA 26+80 - STA 27+49  
STA 26+84 - STA 26+84  
STA 27+41 - STA 27+41

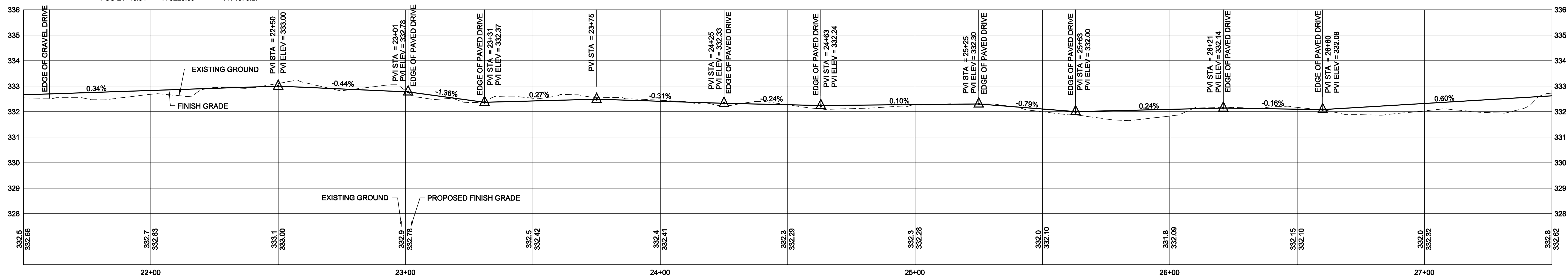
ITEM 629.20 ADJUST ELEVATION OF VALVE BOX  
STA 21+73 LT  
STA 21+76 LT  
STA 21+80 LT

ITEM 676.30 DECIDUOUS TREES  
STA 21+73 LT. (MALUS RED BARON)  
STA 22+03 LT. (MALUS RED BARON)  
STA 22+30 LT. (MALUS ADIRONDACK)  
STA 22+57 LT. (MALUS ADIRONDACK)  
STA 22+86 LT. (MALUS ADIRONDACK)

ITEM 900.620 SPECIAL PROVISION (DECIDUOUS  
TREES - NON PARTICIPATING)  
STA 23+35 RT. (BETULA NIGRA HERITAGE)

ITEM 900.675 SPECIAL PROVISION (PORTLAND  
CEMENT CONCRETE SIDEWALK, 6 INCH)  
STA 21+65 TO STA 22+96  
STA 23+36 TO STA 24+20  
STA 24+68 TO STA 26+16  
STA 26+64 TO STA 27+50

DECIDUOUS TREES - NOT IN CONTRACT  
STA 24+45 RT. (ULMUS JAPONICA MORTON GLOSSY)  
STA 24+75 RT. (ULMUS JAPONICA MORTON GLOSSY)  
STA 25+05 RT. (ULMUS JAPONICA MORTON GLOSSY)  
STA 25+35 RT. (ULMUS JAPONICA MORTON GLOSSY)  
STA 27+15 RT. (ULMUS JAPONICA MORTON GLOSSY)  
STA 27+45 RT. (ULMUS JAPONICA MORTON GLOSSY)



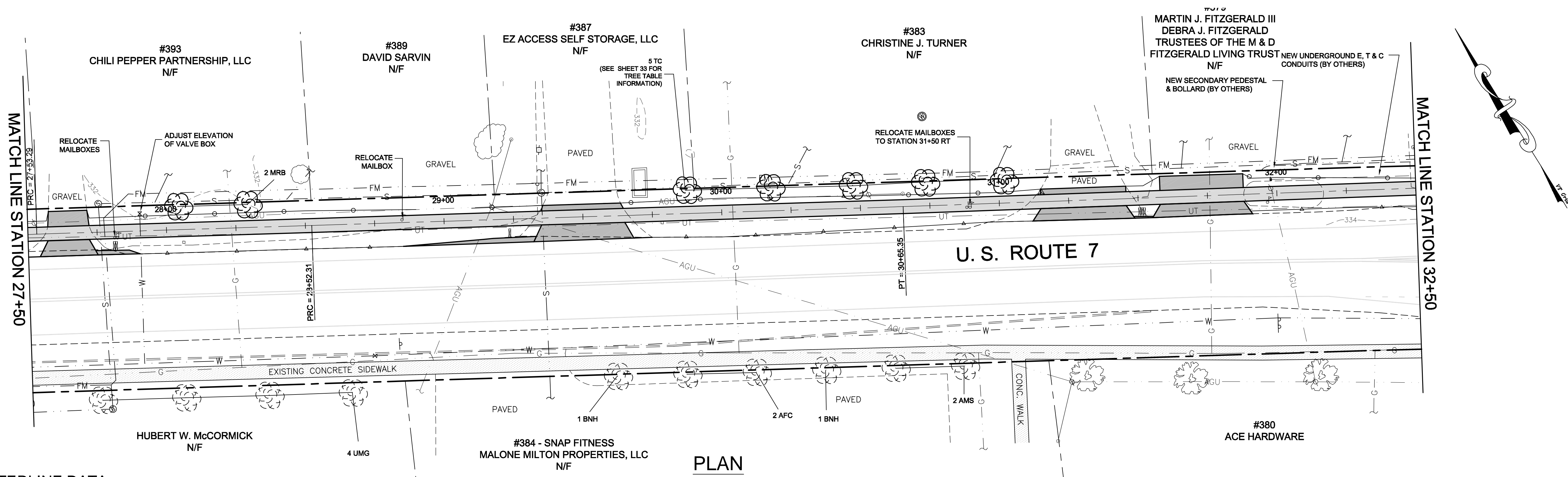
PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
LAYOUT PLAN AND PROFILE

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 18

**L** Lamoureux & Dickinson  
Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
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CENTERLINE DATA

STATION	TO	STATION	Δ	R	I	L
PCC = 24+13.54	PCC = 27+53.29	00° 07' 38"	152,918.27'	169.87'	339.75'	
PCC = 27+53.29	PRC = 28+52.31	00° 09' 02"	-37,715.93'	49.51'	99.02'	
PRC = 28+52.31	PT = 30+65.35	00° 06' 36"	110,897.23'	106.52'	213.04'	
PT = 30+65.35	PI = 33+52.29	S 60° 03' 24" E			286.93'	

SURVEY CONTROL DATA						
NUMBER	NORTHING	EASTING	ELEVATION	DESC	STATION	OFFSET
MAGNAIL 10	775241.9040	1474835.3560	332.7900	21+73.55	9.37' RT	
MAGNAIL 9	774879.1830	1475484.7270	333.5020	31+15.19	3.30' LT	
PRC 27+53.29	775058.08	1475170.14				
PRC 28+52.31	775008.28	1475255.72				
PT 30+65.35	774901.20	1475439.90				

ITEM 617.10 REMOVE AND RESET MAILBOX  
SINGLE SUPPORT  
STA 27+81 (2)  
STA 29+24 STA 30+90 (2)  
STA 31+95

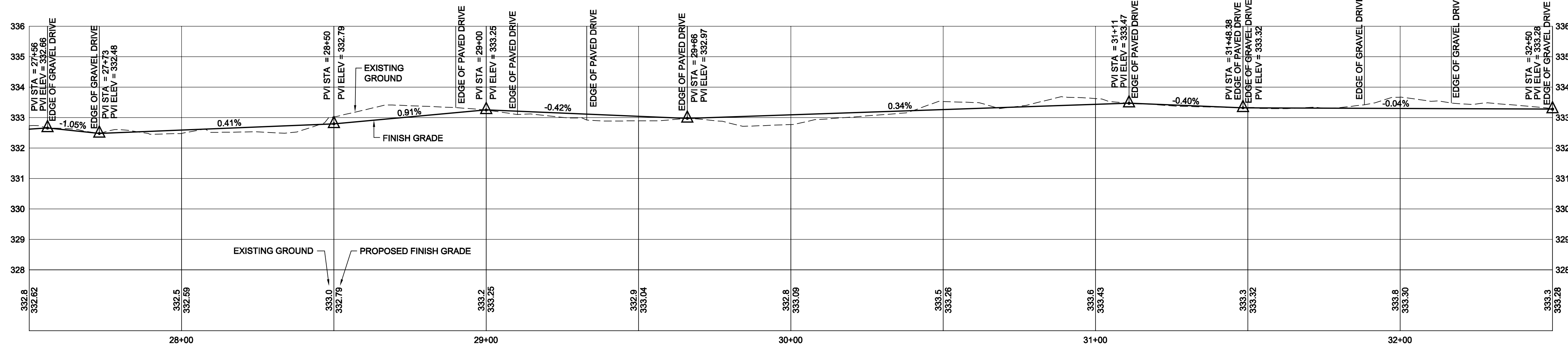
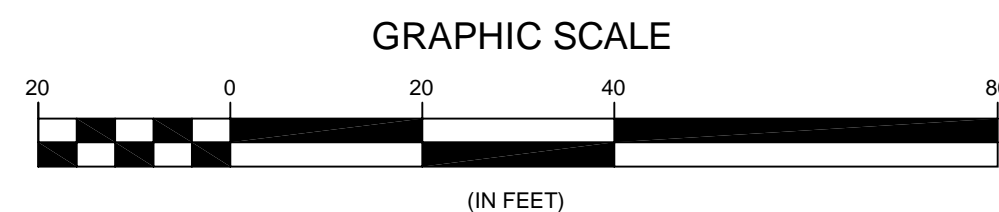
ITEM 618.11 PORTLAND CEMENT CONCRETE  
SIDEWALK, 8 INCH  
STA 27+52 TO STA 27+77  
STA 28+84 TO STA 29+15  
STA 29+29 TO STA 29+69  
STA 31+10 TO STA 31+93

ITEM 629.20 ADJUST ELEVATION OF VALVE BOX  
STA 27+90 LT

ITEM 656.30 DECIDUOUS TREES  
STA 28+04 LT. (MALUS RED BARON)  
STA 28+29 LT. (MALUS RED BARON)  
STA 29+88 LT. (TILIA CORDATA CORZAM)  
STA 30+17 LT. (TILIA CORDATA CORZAM)  
STA 30+47 LT. (TILIA CORDATA CORZAM)  
STA 30+73 LT. (TILIA CORDATA CORZAM)  
STA 31+03 LT. (TILIA CORDATA CORZAM)

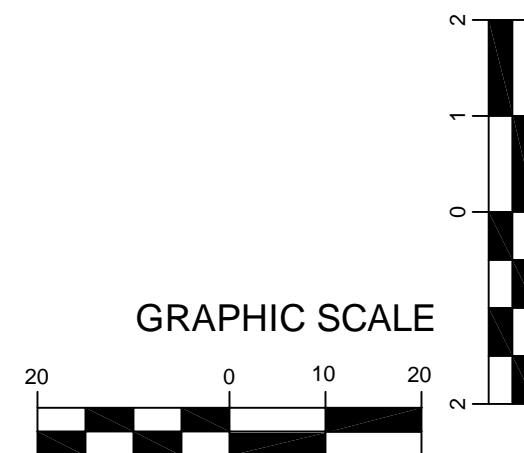
ITEM 900.675 SPECIAL PROVISION (PORTLAND  
CEMENT CONCRETE SIDEWALK, 6 INCH)  
STA 27+50 TO STA 27+52  
STA 27+77 TO STA 28+84  
STA 29+15 TO STA 29+29  
STA 29+69 TO STA 31+10  
STA 31+93 TO STA 32+50

DECIDUOUS TREES - NOT IN CONTRACT  
STA 27+75 RT. (ULMUS JAPONICA MORTON GLOSSY)  
STA 28+05 RT. (ULMUS JAPONICA MORTON GLOSSY)  
STA 28+35 RT. (ULMUS JAPONICA MORTON GLOSSY)  
STA 28+65 RT. (ULMUS JAPONICA MORTON GLOSSY)  
STA 29+61 RT. (BETULA NIGRA HERITAGE)  
STA 29+86 RT. (ACER FREEMANI CELEBRATION)  
STA 30+11 RT. (ACER FREEMANI CELEBRATION)  
STA 30+36 RT. (BETULA NIGRA HERITAGE)  
STA 30+61 RT. (ACER MIYABEI STATE STREET)  
STA 30+85 RT. (ACER MIYABEI STATE STREET)



PROFILE

STA. 27+50 TO 32+50



PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
LAYOUT PLAN AND PROFILE

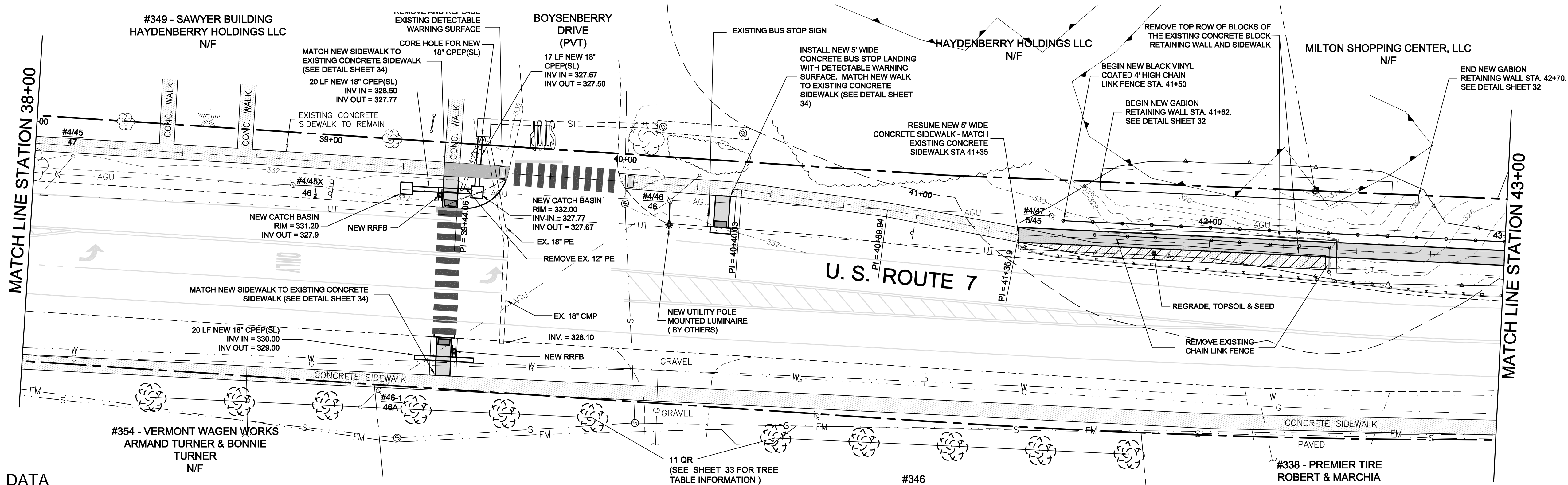
PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 19

**L** Lamoureux & Dickinson  
Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
802-878-4450 www.LDengineering.com









CENTERLINE DATA

STATION TO	STATION	$\Delta$	L
PI = 37+54.75	PI = 39+44.06	S 54° 24' 47" E	189.31'
PI = 39+44.06	PI = 40+40.03	S 53° 57' 41" E	95.97'
PI = 40+40.03	PI = 40+89.94	S 50° 11' 34" E	49.91'
PI = 40+89.94	PI = 41+35.19	S 47° 13' 42" E	45.26'
PI = 41+35.19	PI = 43+16.60	S 55° 16' 26" E	181.41'

SURVEY CONTROL DATA

NUMBER	NORTHING	EASTING	ELEVATION	STATION	OFFSET
TRAVBAR 8	774501.9600	1476105.0620	332.4720	38+41.12	4.46' LT
TRAVBAR 1	774225.8810	1476455.1800	329.6820	42+86.89	8.5' RT
PI 39+44.06	774438.43	1476186.18			
PI 40+40.03	774381.97	1476263.78			
PI 40+89.94	774350.01	1476302.12			
PI 41+35.19	774319.28	1476335.34			

ITEM 601.2615 18" CPEP (SL)  
STA 39+29 TO STA 39+49  
STA 39+33 TO STA 39+53  
STA 39+50 L TO STA 39+50 R

ITEM 604.15 REHAB. DROP INLETS, CATCH  
BASINS, OR MANHOLES CLASS II  
STA 39+50 LT

ITEM 604.20 PRECAST REINFORCED  
CONCRETE CATCH BASIN WITH CAST  
IRON GRATE  
STA 39+27  
STA 30+50

GRAPHIC SCALE



PLAN

NOTES

- REMOVAL OF EXISTING BLOCK RETAINING WALL TO BE PAID UNDER ITEM 203.16. DELIVER REMOVED BLOCKS TO MILTON PUBLIC WORKS DEPARTMENT.
- REMOVAL OF EXISTING SIDEWALK TO BE PAID UNDER ITEM 203.16

#346  
ARMAND TURNER &  
BONNIE TURNER  
N/F

ITEM 618.30 DETECTABLE WARNING SURFACE  
STA 39+42 (2)  
STA 39+59  
STA 40+33

ITEM 620.11 CHAIN-LINK FENCE, 4 FEET  
STA 41+50 - STA 43+00 LT

ITEM 620.20 BRACING ASSEMBLY FOR  
CHAIN-LINK FENCE, 4 FEET  
STA 41+50  
STA 43+00

ITEM 620.55 REMOVAL OF EXISTING FENCE  
STA 41+61 - STA 42+41

ITEM 646.482 DURABLE 24 INCH STOP BAR,  
THERMOPLASTIC  
STA 39+62 TO STA 39+92

ITEM 646.4913 DURABLE LETTER OR SYMBOL,  
TYPE C TAPE  
STA 39+62 TO STA 39+72

ITEM 646.502 DURABLE CROSSWALK MARKING,  
THERMOPLASTIC  
STA 39+42 RT  
STA 39+61 - STA 39+99

ITEM 646.85 REMOVAL OF EXISTING PAVEMENT  
MARKINGS  
"STOP"  
24" STOP BAR  
4" LINE

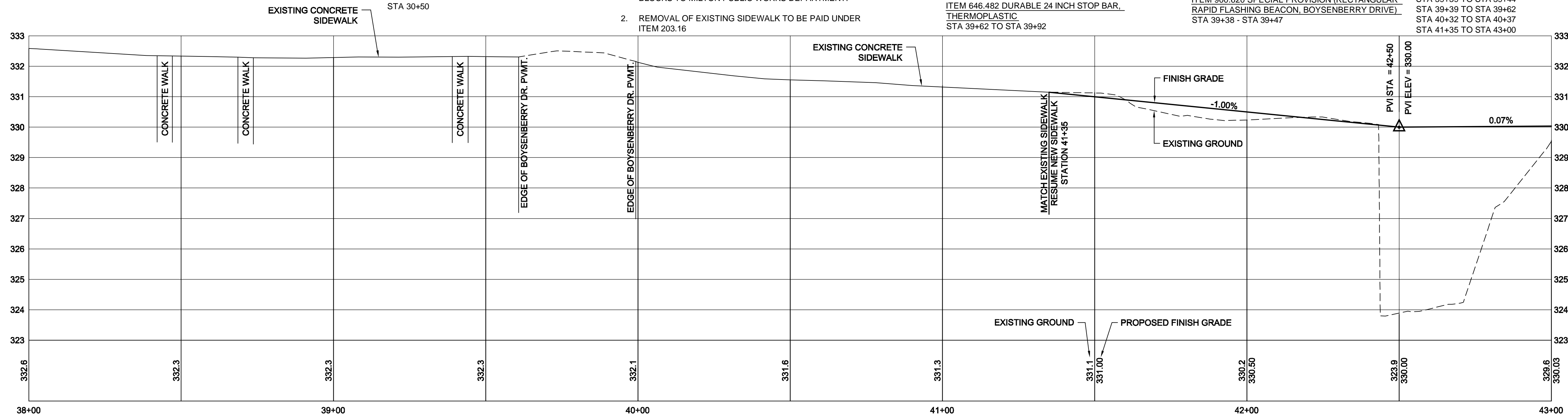
ITEM 900.620 SPECIAL PROVISION (RECTANGULAR  
RAPID FLASHING BEACON, BOYSENBERRY DRIVE)  
STA 39+38 - STA 39+47

ITEM 900.620 SPECIAL PROVISION (DECIDUOUS  
TREES - NON PARTICIPATING)  
STA 38+44 RT. (QUERCUS RUBRA)  
STA 38+74 RT. (QUERCUS RUBRA)  
STA 39+03 RT. (QUERCUS RUBRA)  
STA 39+34 RT. (QUERCUS RUBRA)  
STA 39+64 RT. (QUERCUS RUBRA)  
STA 39+94 RT. (QUERCUS RUBRA)  
STA 40+64 RT. (QUERCUS RUBRA)  
STA 40+94 RT. (QUERCUS RUBRA)  
STA 41+24 RT. (QUERCUS RUBRA)  
STA 41+46 RT. (QUERCUS RUBRA)  
STA 41+76 RT. (QUERCUS RUBRA)

ITEM 900.670 SPECIAL PROVISION (GABION WALL)  
STA 41+56 TO STA 42+70

ITEM 900.675 SPECIAL PROVISION (PORTLAND  
CEMENT CONCRETE SIDEWALK, 6 INCH)

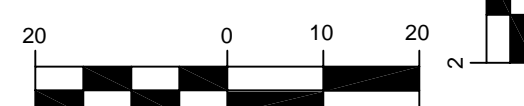
STA 39+39 TO STA 39+44  
STA 39+39 TO STA 39+62  
STA 40+32 TO STA 40+37  
STA 41+35 TO STA 43+00



PROFILE

STA. 38+00 TO 43+00

GRAPHIC SCALE



PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
LAYOUT PLAN AND PROFILE

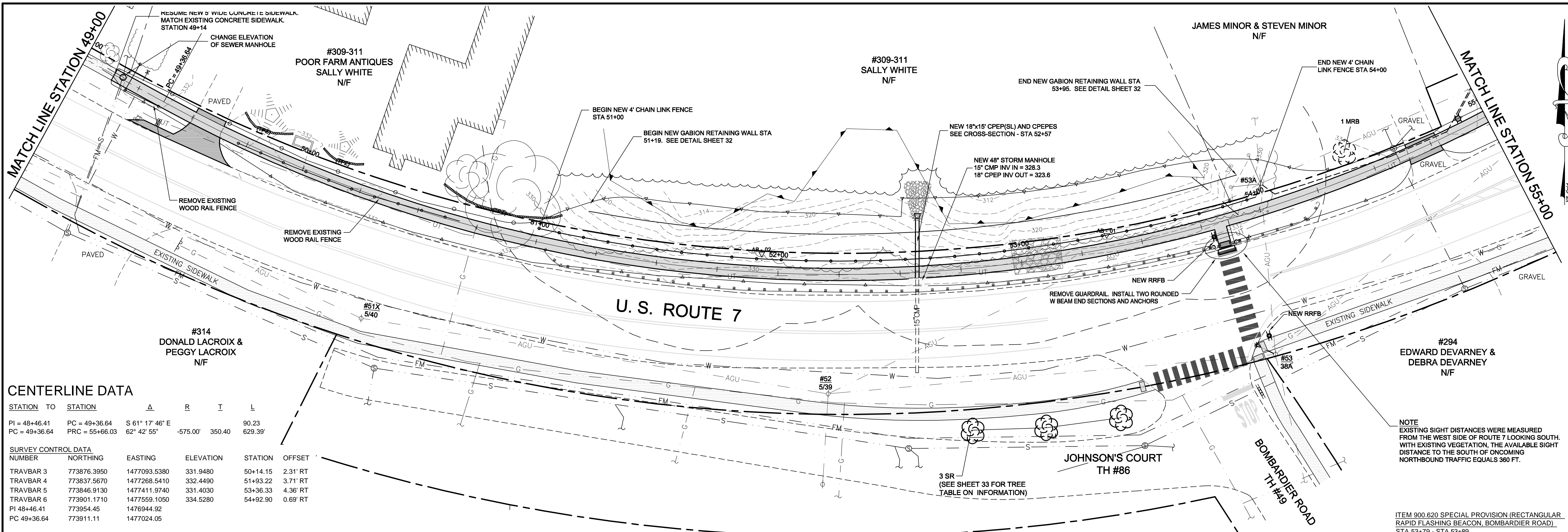
PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 21

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### CENTERLINE DATA

STATION	TO	STATION	$\Delta$	R	I	L
PI = 48+46.41	PC = 49+36.64	S 61° 17' 46" E				90.23
PC = 49+36.64	PRC = 55+06.03	62° 42' 55"	-575.00'	350.40		629.39'

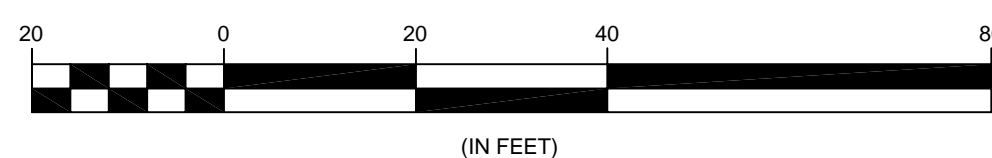
SURVEY CONTROL DATA					
NUMBER	NORTHING	EASTING	ELEVATION	STATION	OFFSET
TRAVBAR 3	773876.3950	1477093.5380	331.9480	50+14.15	2.31' RT
TRAVBAR 4	773837.5670	1477268.5410	332.4490	51+93.22	3.71' RT
TRAVBAR 5	773846.9130	1477411.9740	331.4030	53+36.33	4.36' RT
TRAVBAR 6	773901.1710	1477559.1050	334.5280	54+92.90	0.69' RT
PI 48+46.41	773954.45	1476944.92			
PC 49+36.64	773911.11	1477024.05			

- ITEM 601.2615 18" CPEP(SL)  
STA 52+57 LT
- ITEM 601.7015 18" CPEPES  
STA 52+57 LT
- ITEM 604.21 PRECAST REINFORCED CONCRETE  
MANHOLE WITH CAST IRON COVER  
STA 52+57 LT
- ITEM 604.42 CHANGE ELEVATION OF SEWER MANHOLE  
STA 49+16.64
- ITEM 613.11 STONE FILL TYPE II  
STA 52+57 LT
- ITEM 618.11 PORTLAND CEMENT CONCRETE  
SIDEWALK, 8 INCH  
STA 49+45 TO STA 49+68  
STA 54+60 TO STA 54+83
- ITEM 618.30 DETECTABLE WARNING SURFACE  
STA 53+82 RT
- ITEM 620.11 CHAIN-LINK FENCE, 4 FEET  
STA 51+00 - STA 54+00 LT

- ITEM 620.20 BRACING ASSEMBLY FOR CHAIN-LINK FENCE, 4 FEET  
STA 51+00  
STA 54+00
- ITEM 620.55 REMOVAL OF EXISTING FENCE  
STA 49+20 - STA 49+36  
STA 49+80 - STA 50+67
- ITEM 621.20 STEEL BEAM GUARDRAIL, GALVANIZED  
STA 53+75 - STA 53+77 RT  
STA 53+87 - STA 53+89 RT

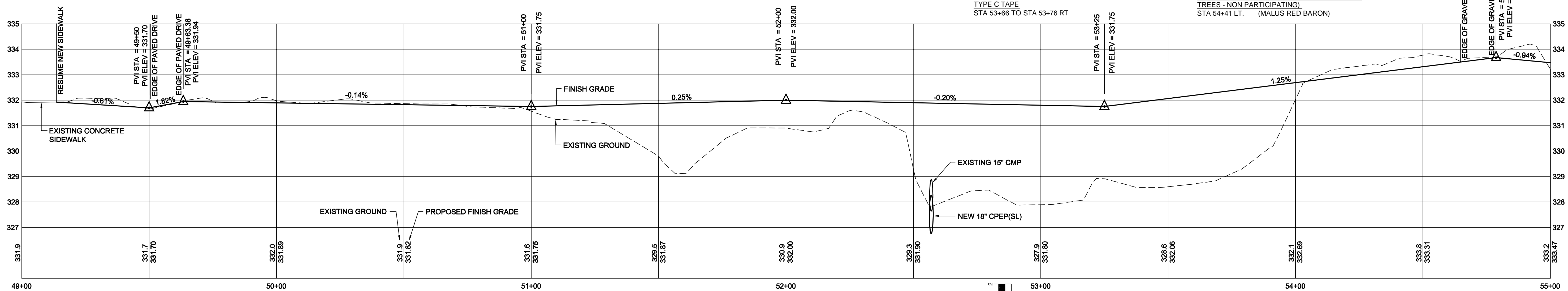
### PLAN

GRAPHIC SCALE



- ITEM 621.60 ANCHOR FOR STEEL BEAM RAIL  
STA 53+63  
STA 54+01
- ITEM 621.80 REMOVAL AND DISPOSAL OF GUARDRAIL  
STA 53+75 - STA 53+89 RT
- ITEM 646.482 DURABLE 24 INCH STOP BAR,  
THERMOPLASTIC  
STA 53+64 TO STA 53+82 RT
- ITEM 646.4913 DURABLE LETTER OR SYMBOL,  
TYPE C TAPE  
STA 53+66 TO STA 53+76 RT
- ITEM 646.502 DURABLE CROSSWALK MARKING,  
THERMOPLASTIC  
STA 53+82 RT  
STA 53+42 TO STA 53+82 RT
- ITEM 656.30 DECIDUOUS TREES  
STA 52+74 RT. (SYRINGA RETICULATA IVORY SILK)  
STA 53+01 RT. (SYRINGA RETICULATA IVORY SILK)  
STA 53+29 RT. (SYRINGA RETICULATA IVORY SILK)
- ITEM 900.620 SPECIAL PROVISION (DECIDUOUS  
TREES - NON PARTICIPATING)  
STA 54+41 LT. (MALUS RED BARON)

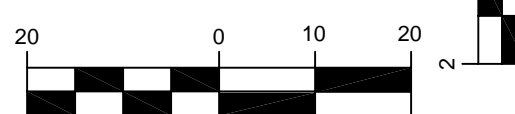
- ITEM 900.620 SPECIAL PROVISION (RECTANGULAR  
RAPID FLASHING BEACON, BOMBARDIER ROAD)  
STA 53+79 - STA 53+89
- ITEM 900.675 SPECIAL PROVISION (PORTLAND  
CEMENT CONCRETE SIDEWALK, 6 INCH)  
STA 49+14 TO STA 49+45  
STA 49+68 TO STA 54+60  
STA 54+83 TO STA 55+00
- ITEM 900.670 SPECIAL PROVISION (GABION WALL)  
STA 51+19 - STA 53+95



### PROFILE

STA. 49+00 TO 55+00

GRAPHIC SCALE



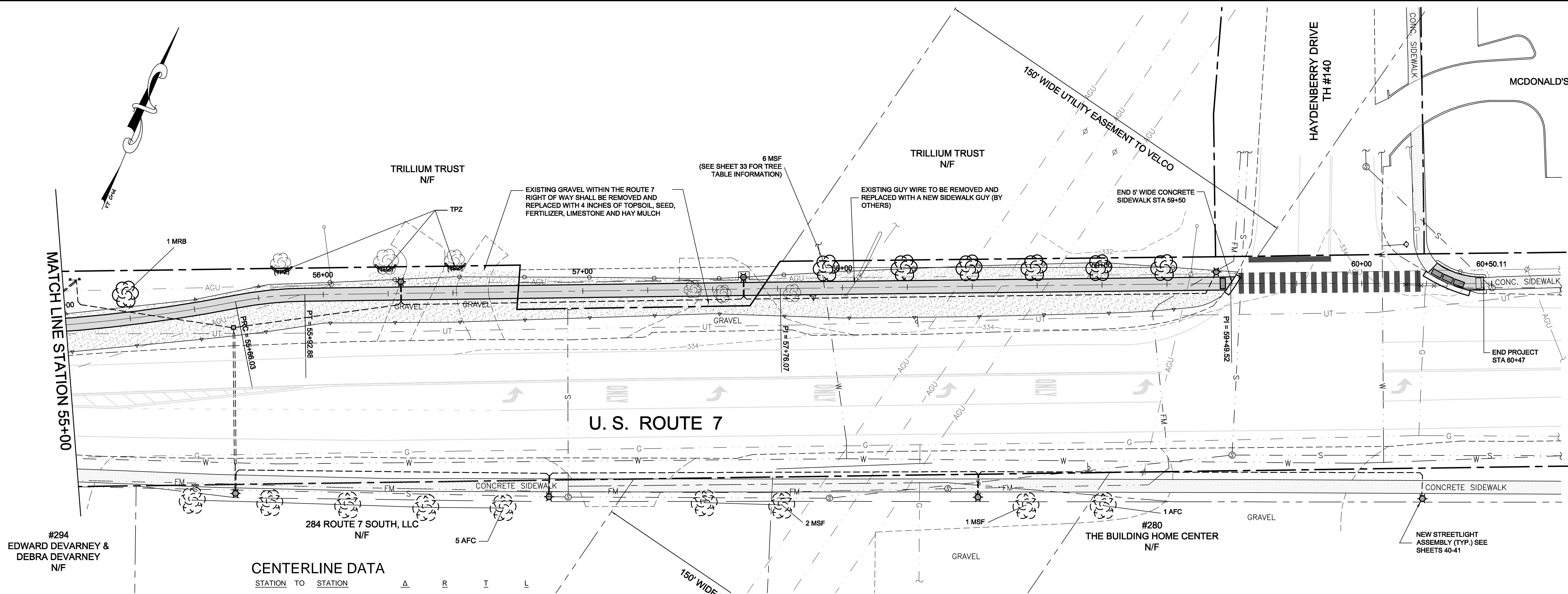
**L** Lamoureux & Dickinson  
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14 Morse Drive, Essex, VT 05452  
802-878-4450 www.LDEngineering.com

PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
LAYOUT PLAN AND PROFILE

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 23





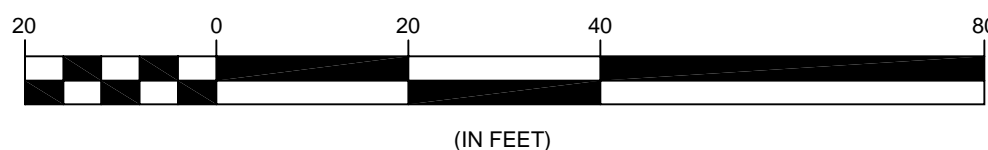
CENTERLINE DATA

STATION	TO	STATION	Δ	R	I	L
PC = 49+36.64	PRC = 55+66.03	PT = 55+92.88	62° 42' 55"	-575.00'	350.40	629.39'
PT = 55+92.88	PI = 57+76.07	PI = 59+49.52	10° 15' 27"	150.00'	13.46	26.85'
PI = 57+76.07	END = 60+50.11		N 66° 15' 22" E			183.19'
			N 66° 20' 49" E			173.45'
			N 67° 02' 51" E			100.59'

NUMBER	NORTHING	EASTING	ELEVATION	STATION	OFFSET
TRAVBAR 6	773901.1710	1477559.1050	334.5280	54+92.90	0.69' RT
TRAVBAR 7	774027.3810	1477825.9550	332.7830	57+88.70	3.40' RT
PRC 55+66.03	773938.72	1477621.85			
PT 55+92.88	773951.67	1477645.34			
PI 57+76.07	774025.43	1477813.02			
PI 59+49.52	774095.01	1477971.89			
END 60+50.11	774134.24	1478064.52			

PLAN

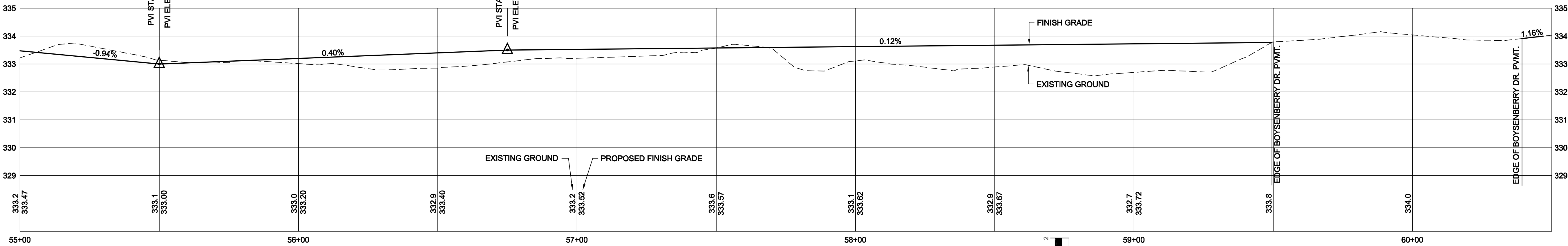
GRAPHIC SCALE



- ITEM 618.30 DETECTABLE WARNING SURFACE  
STA 59+45  
STA 60+33
- ITEM 646.482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC  
STA 59+57 TO STA 59+88
- ITEM 646.502 DURABLE CROSSWALK MARKING, THERMOPLASTIC  
STA 59+50 TO STA 60+33
- ITEM 646.85 REMOVAL OF EXISTING PAVEMENT MARKINGS  
STOP BAR  
4" LINE

- ITEM 656.30 DECIDUOUS TREES  
STA 55+25 LT. (MALUS RED BARON)  
STA 57+94 LT. (MALUS SARGENTII FIREBIRD)  
STA 58+25 LT. (MALUS SARGENTII FIREBIRD)  
STA 58+49 LT. (MALUS SARGENTII FIREBIRD)  
STA 58+74 LT. (MALUS SARGENTII FIREBIRD)  
STA 58+99 LT. (MALUS SARGENTII FIREBIRD)  
STA 59+23 LT. (MALUS SARGENTII FIREBIRD)
- ITEM 656.85 TREE PROTECTION ZONE  
STA 55+83  
STA 56+25  
STA 56+50

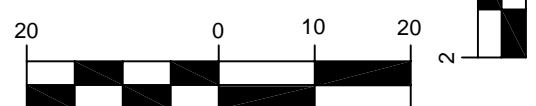
- ITEM 900.620 SPECIAL PROVISION (DECIDUOUS TREES - NON PARTICIPATING)  
STA 55+39 RT. (ACER FREEMANI CELEBRATION)  
STA 55+64 RT. (ACER FREEMANI CELEBRATION)  
STA 56+08 RT. (ACER FREEMANI CELEBRATION)  
STA 56+38 RT. (ACER FREEMANI CELEBRATION)  
STA 56+68 RT. (ACER FREEMANI CELEBRATION)  
STA 57+45 RT. (MALUS SARGENTII FIREBIRD)  
STA 57+76 RT. (MALUS SARGENTII FIREBIRD)  
STA 58+70 RT. (MALUS SARGENTII FIREBIRD)  
STA 58+99 RT. (ACER FREEMANI CELEBRATION)
- ITEM 900.675 SPECIAL PROVISION (PORTLAND CEMENT CONCRETE SIDEWALK, 6 INCH)  
STA 55+00 TO 59+50  
STA 60+26 TO 60+47



PROFILE

STA. 55+00 TO 60+32

GRAPHIC SCALE



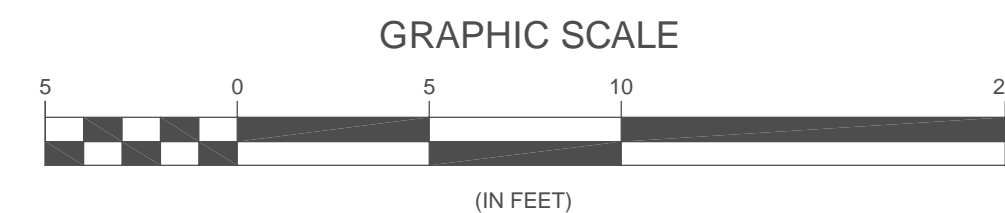
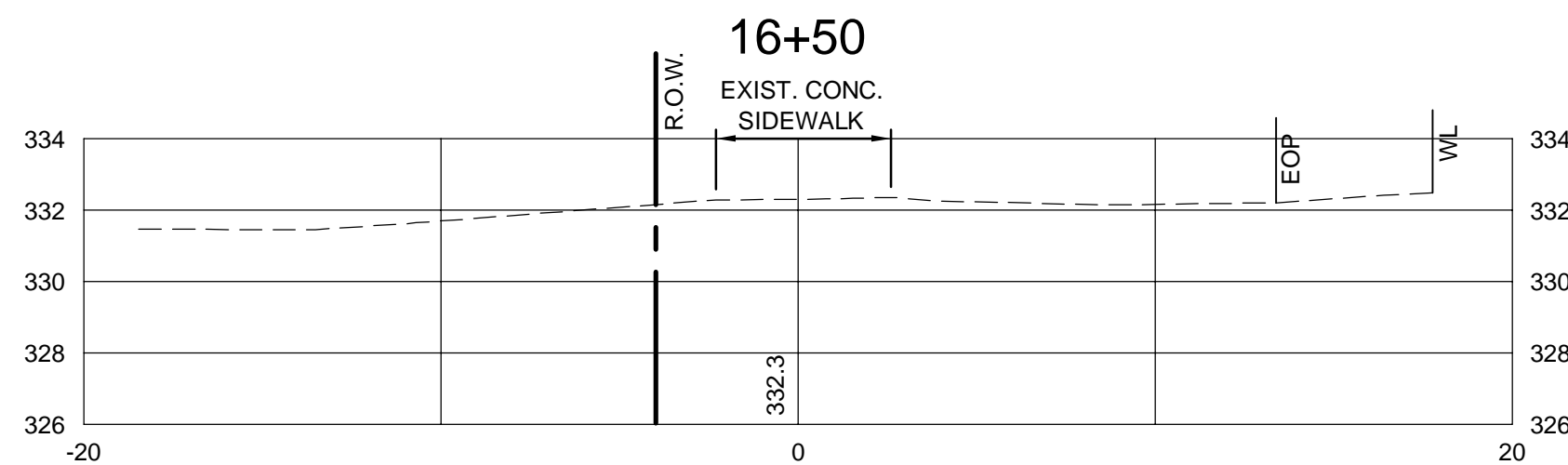
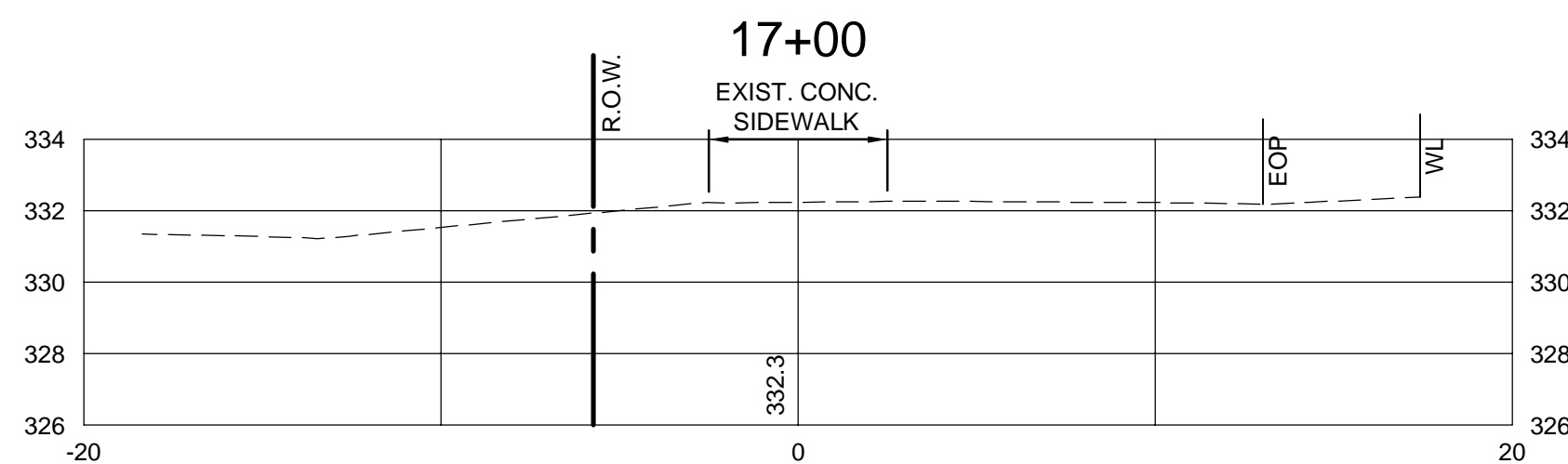
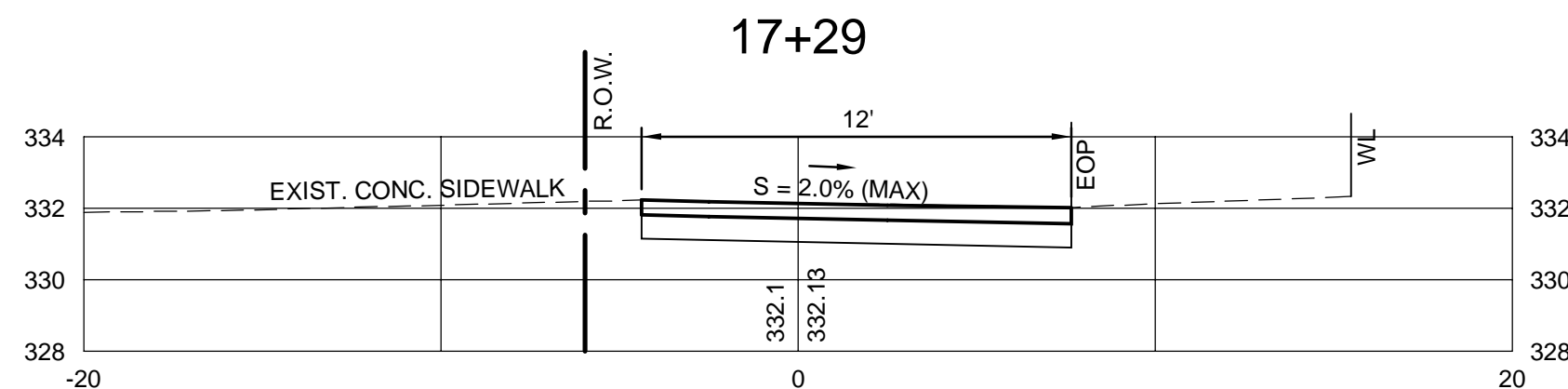
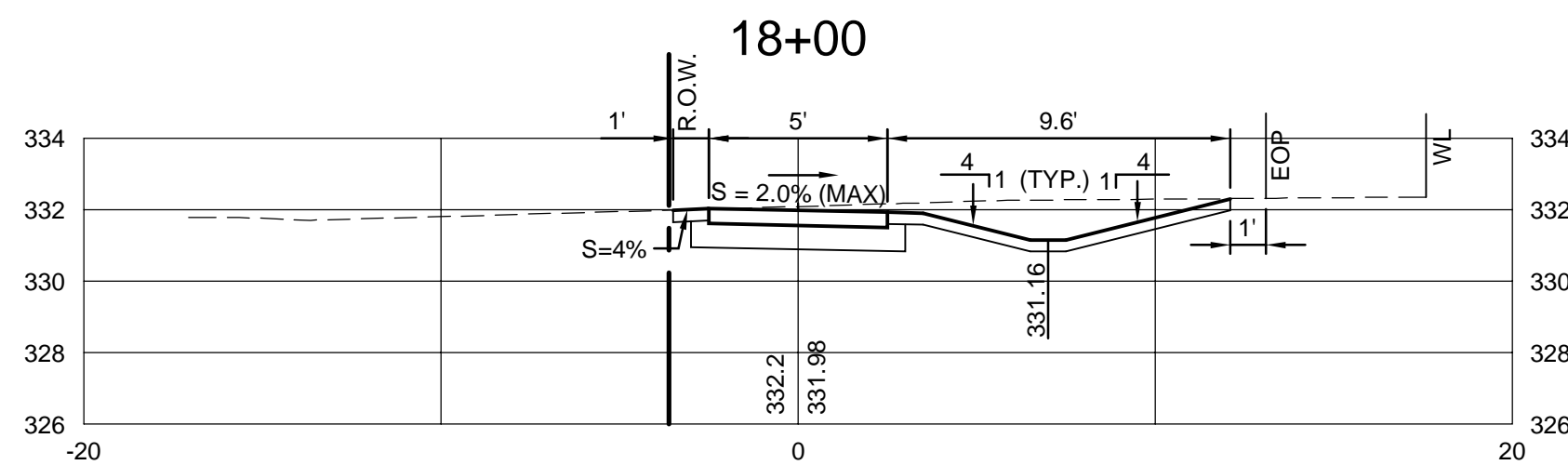
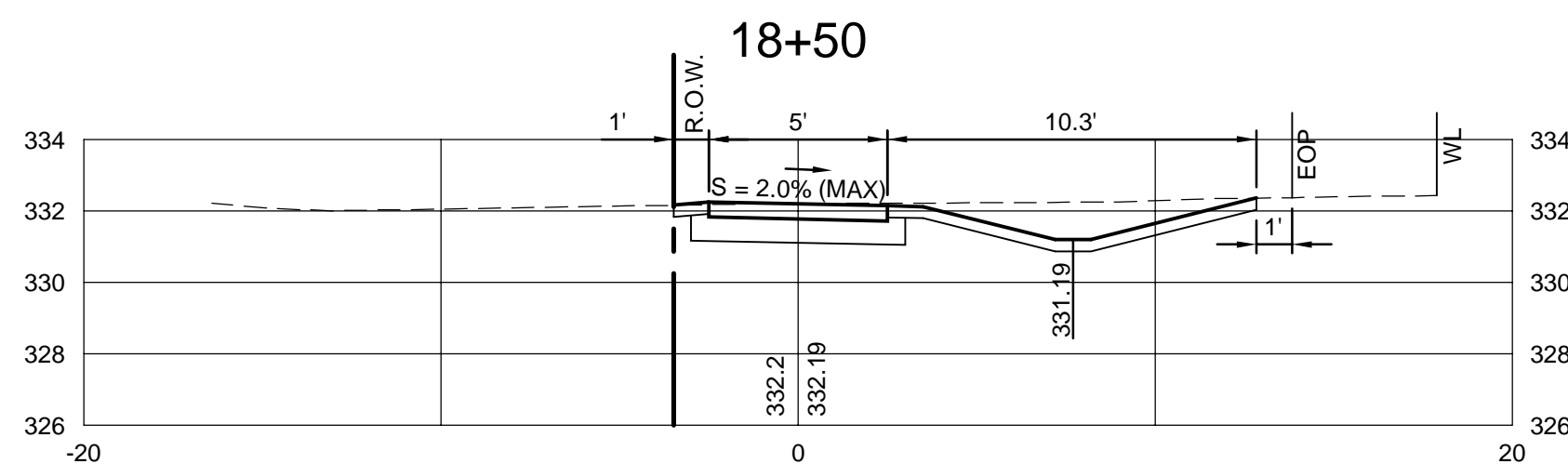
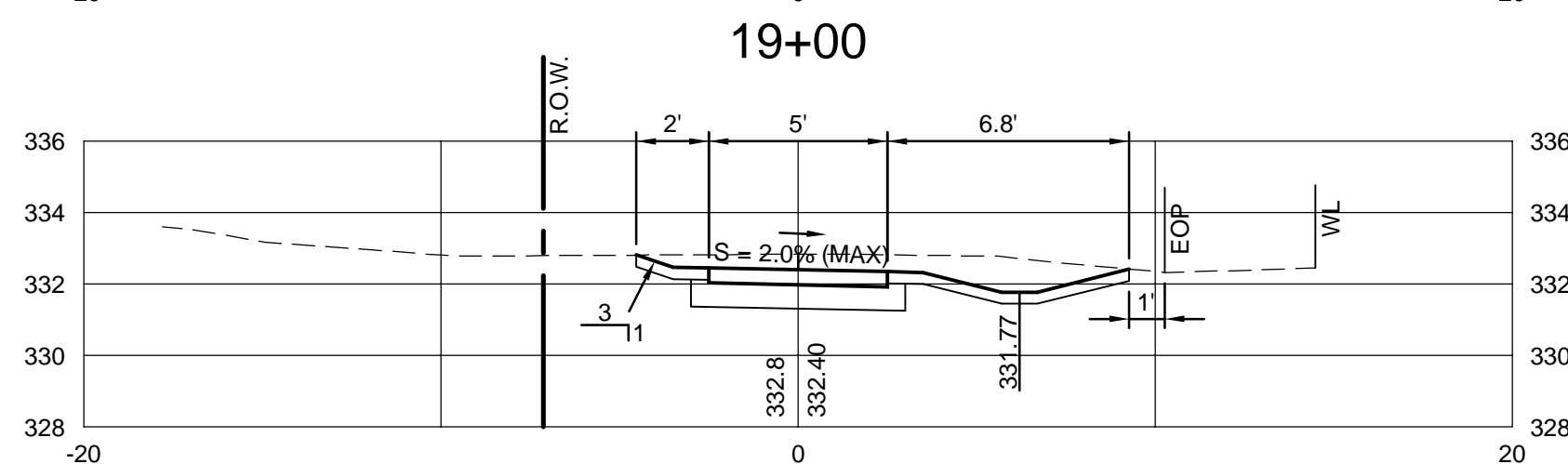
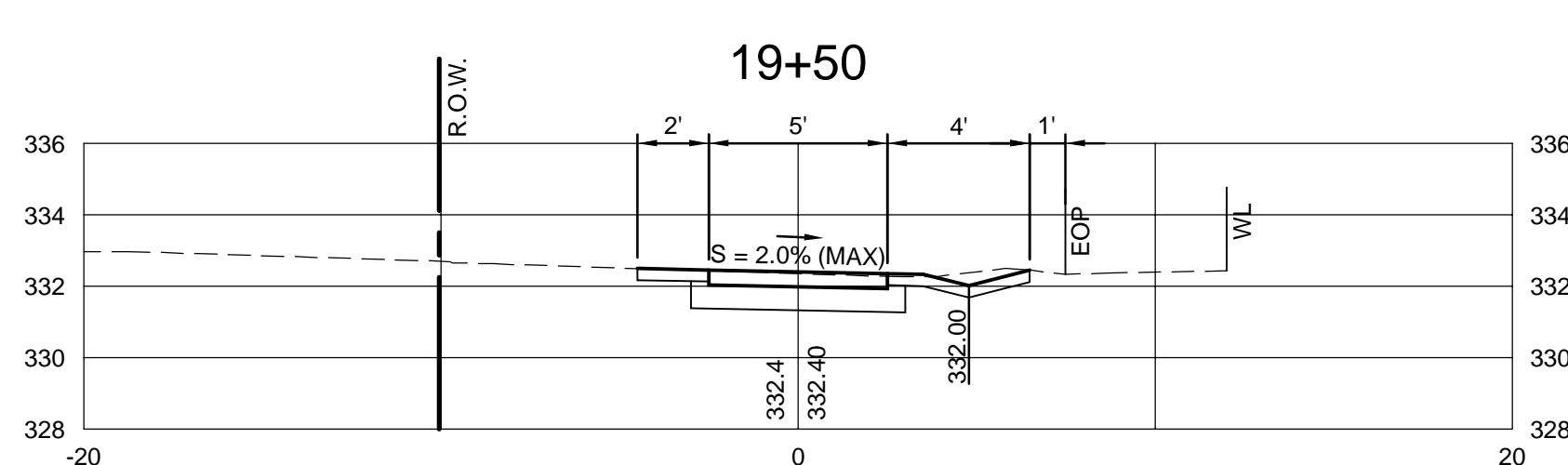
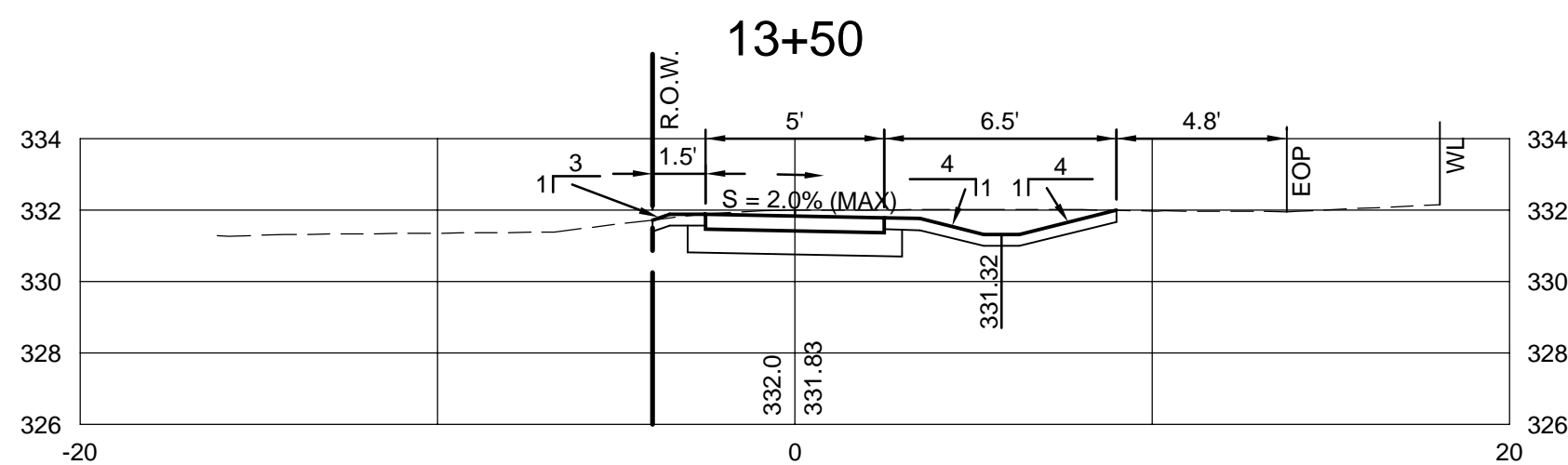
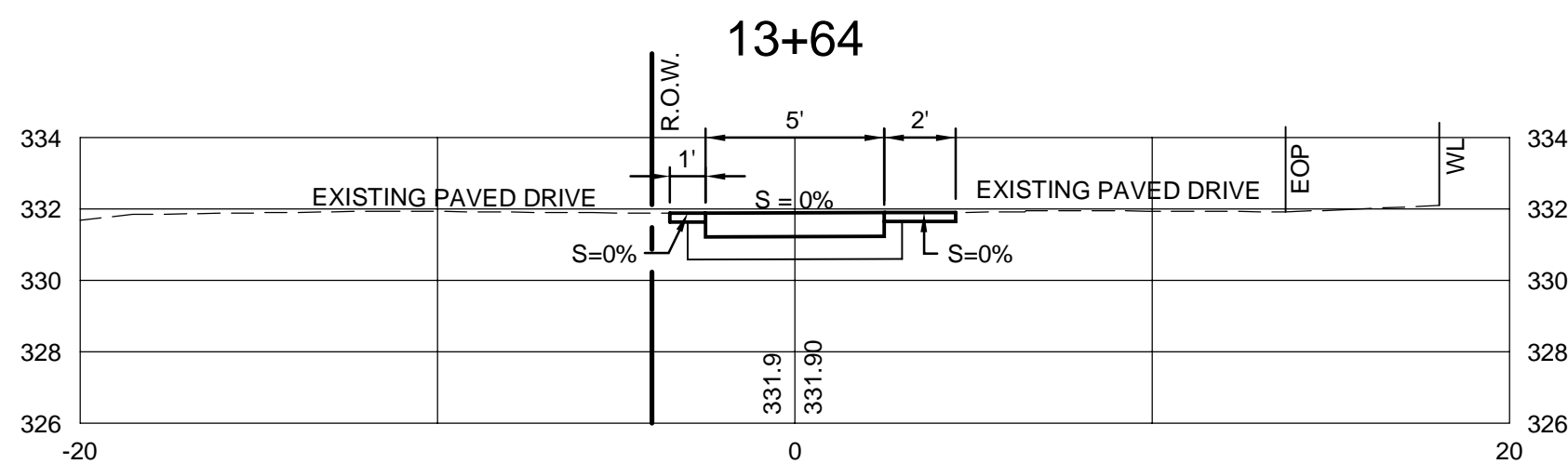
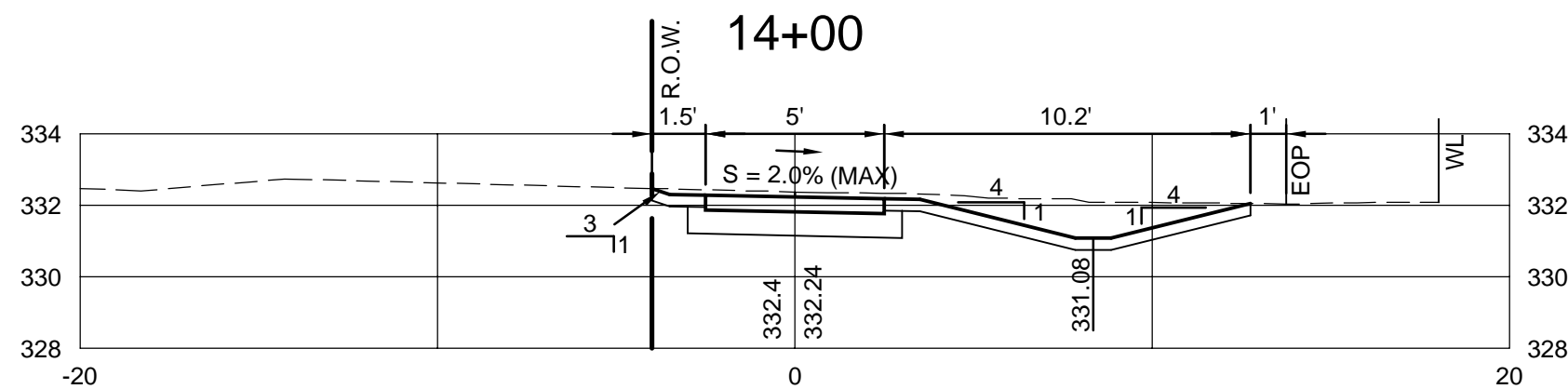
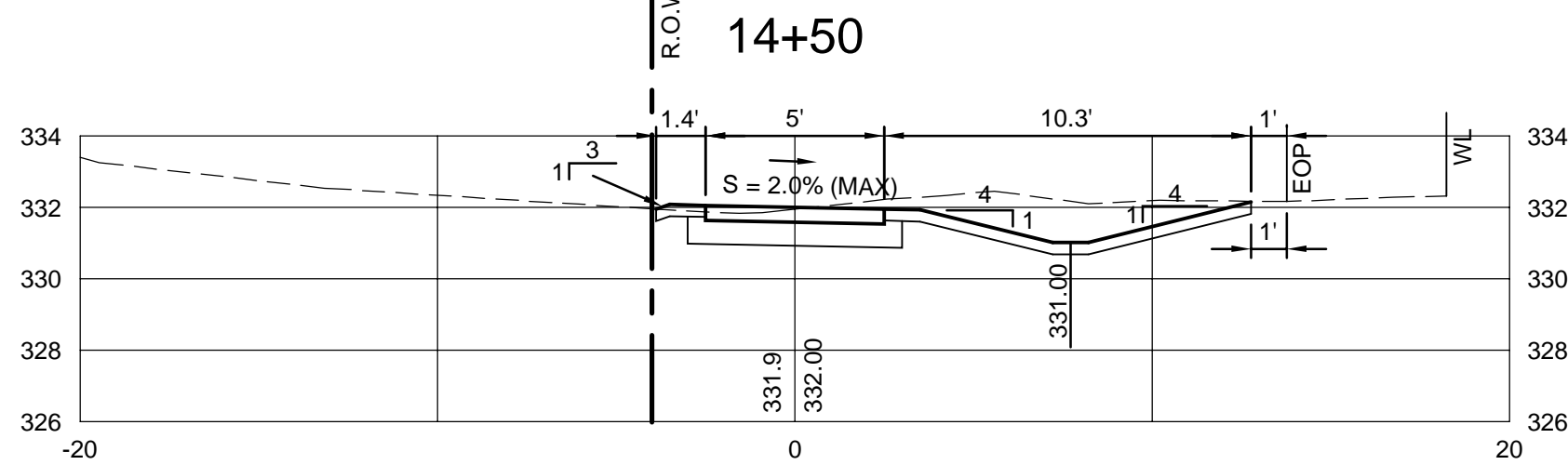
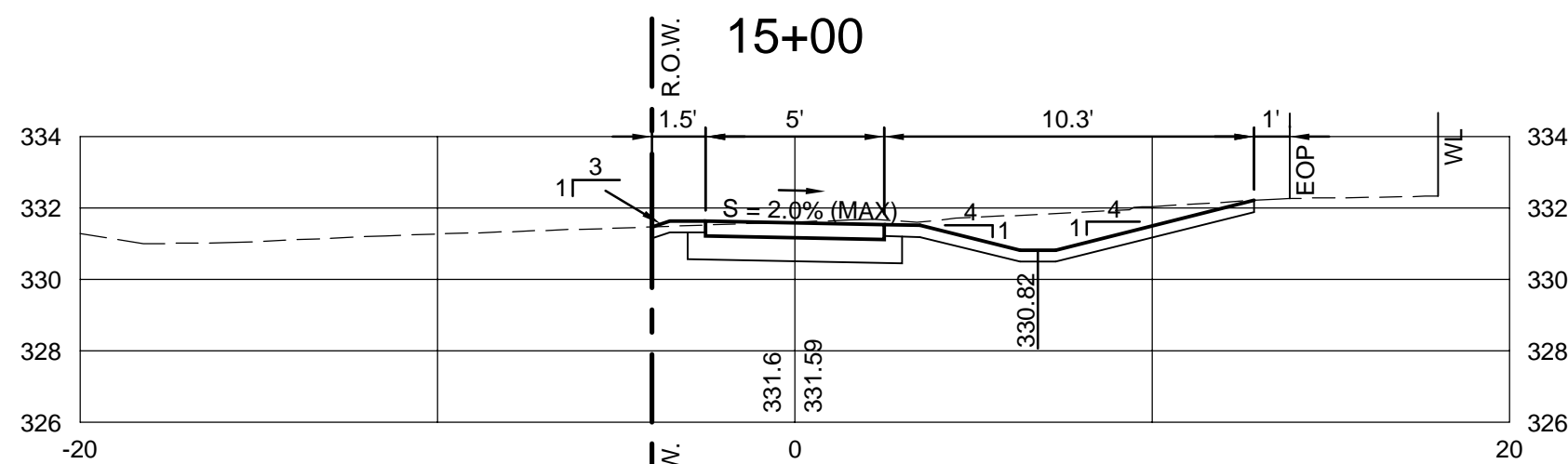
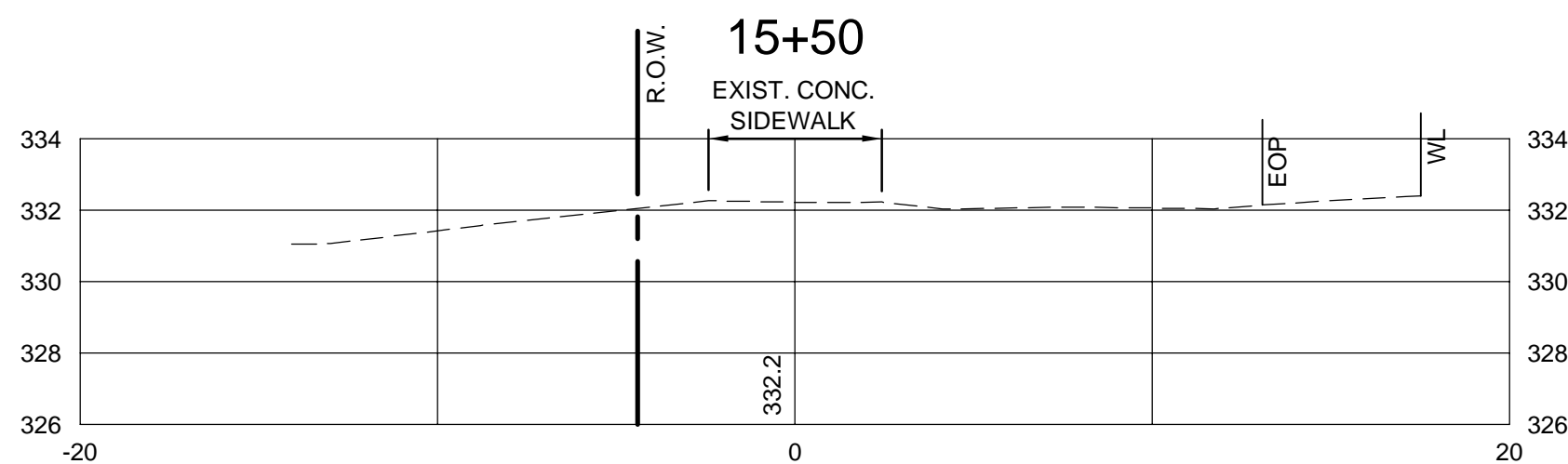
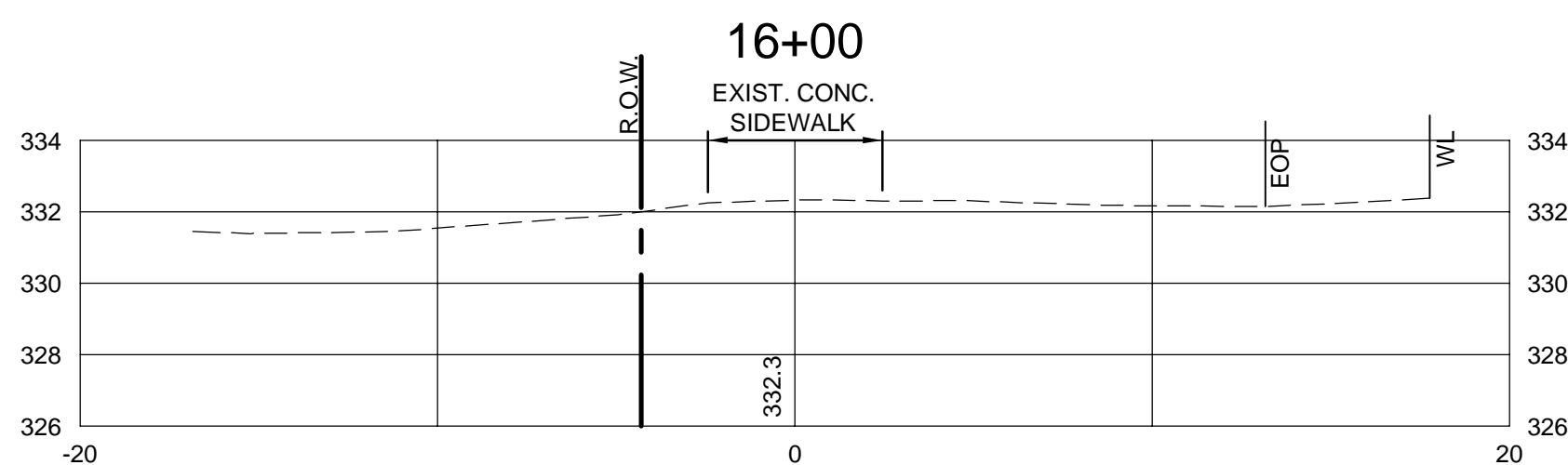
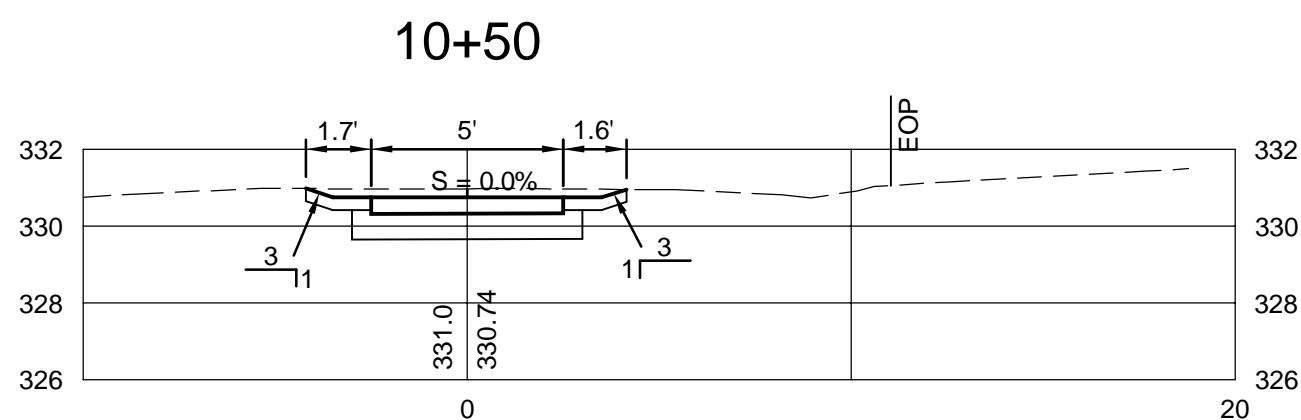
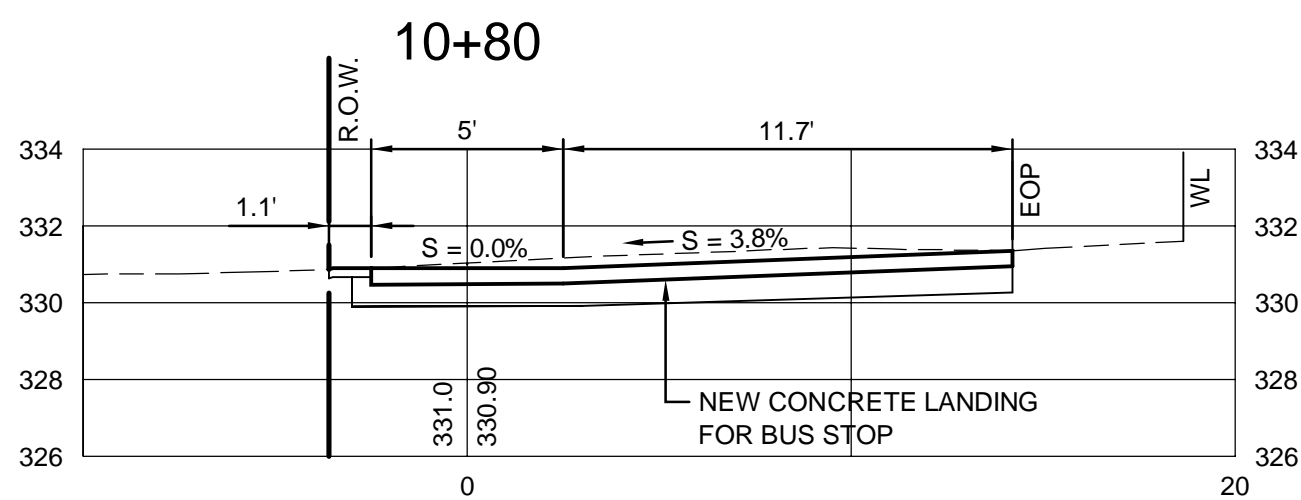
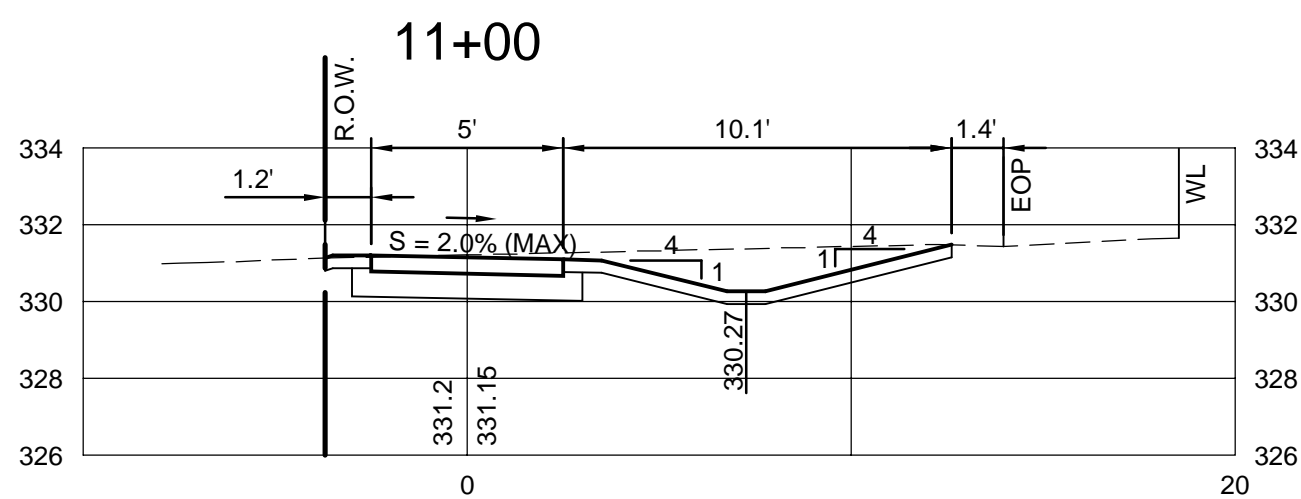
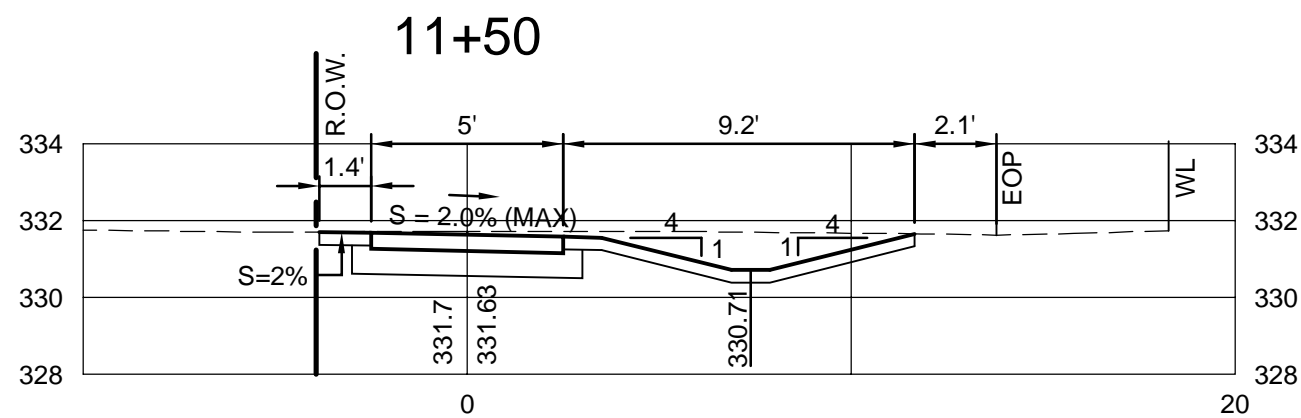
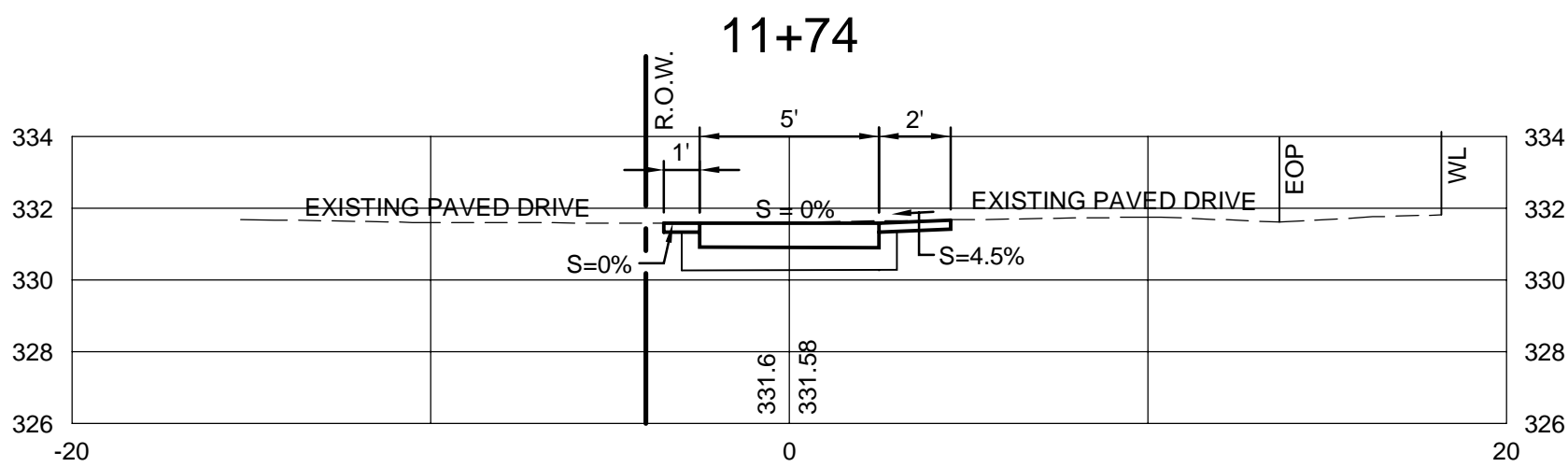
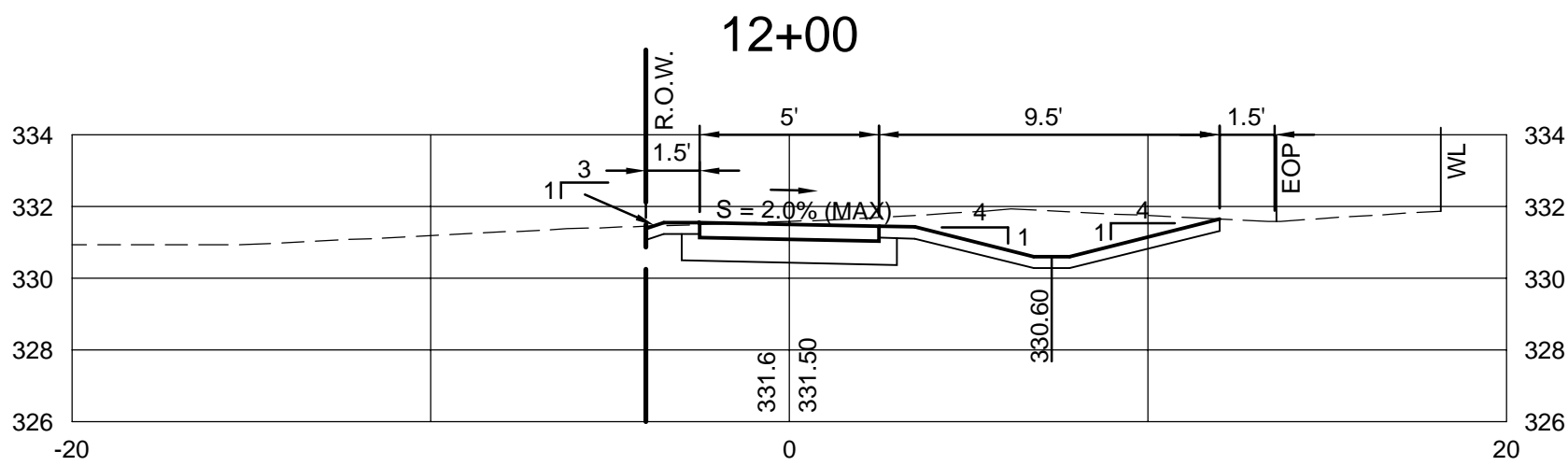
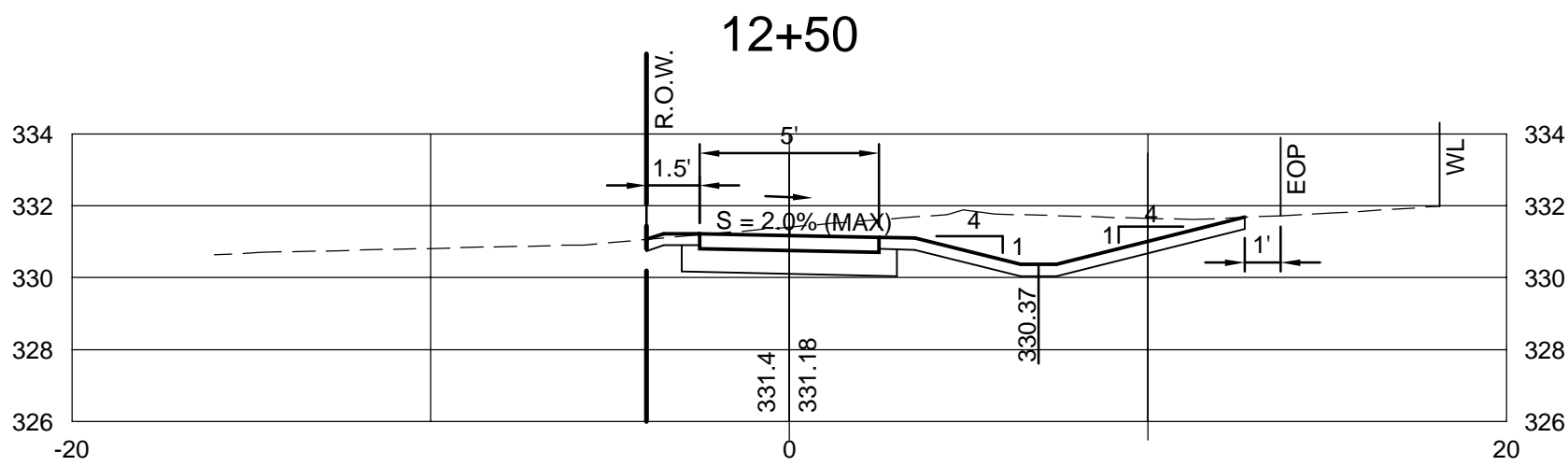
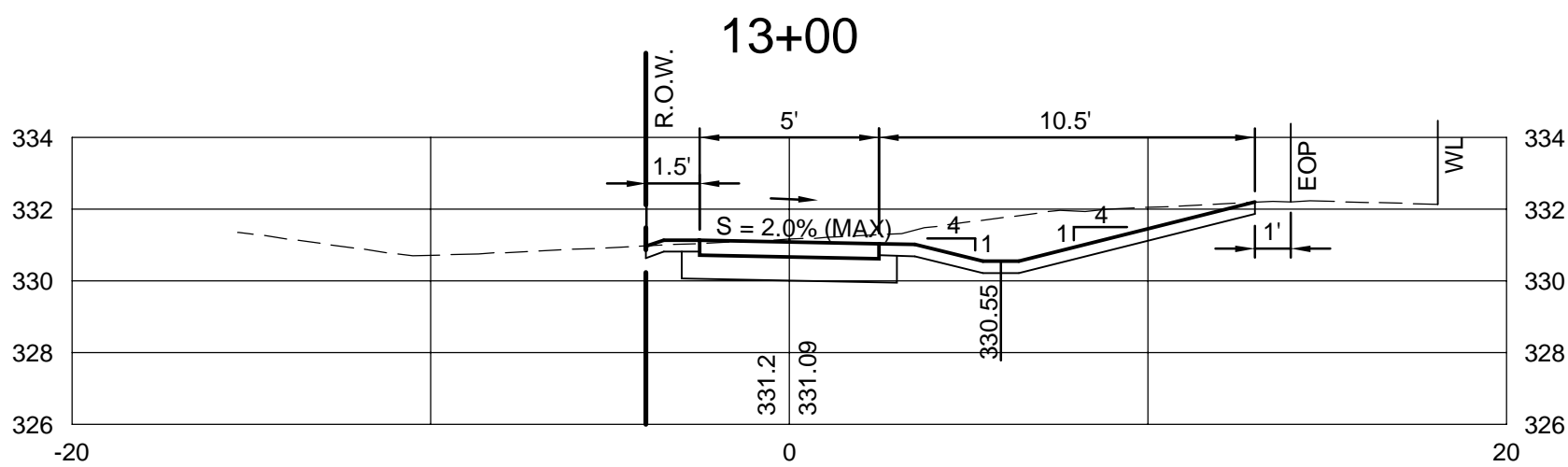
**L** Lamoureux & Dickinson  
Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
802-878-4450 www.LDengineering.com

PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
LAYOUT PLAN AND PROFILE

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 24





LEGEND

R.O.W. RIGHT-OF-WAY  
EOP EDGE OF PAVEMENT  
WL WHITE LINE

**L** Lamoureux & Dickinson  
Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
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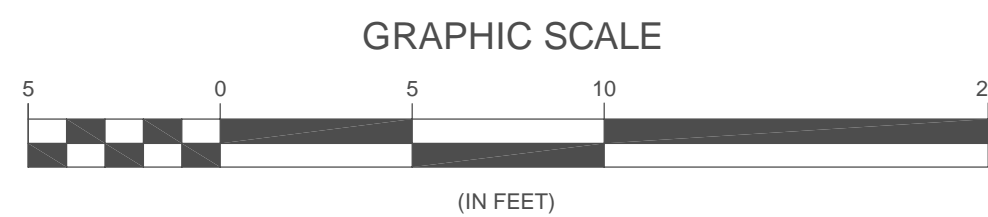
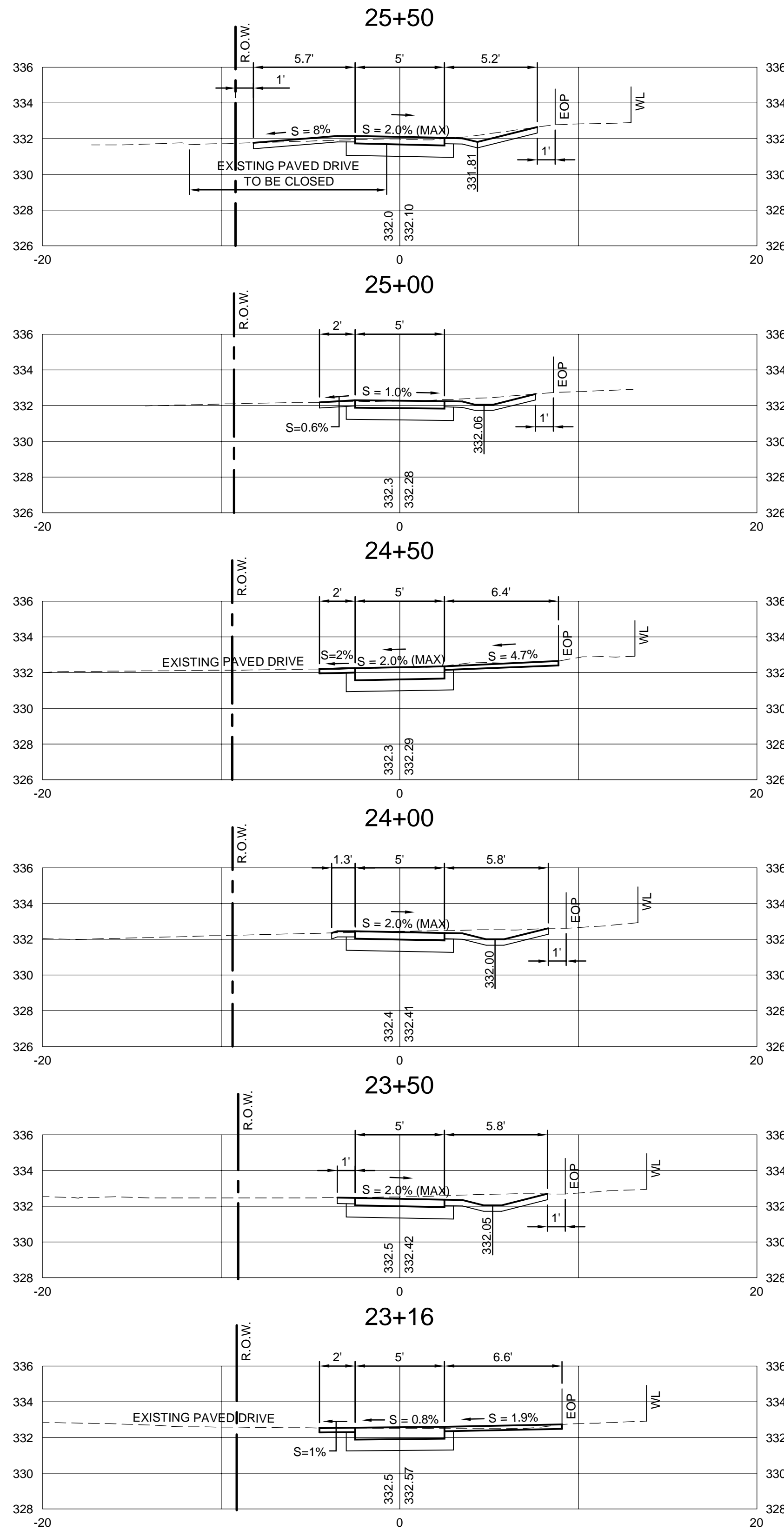
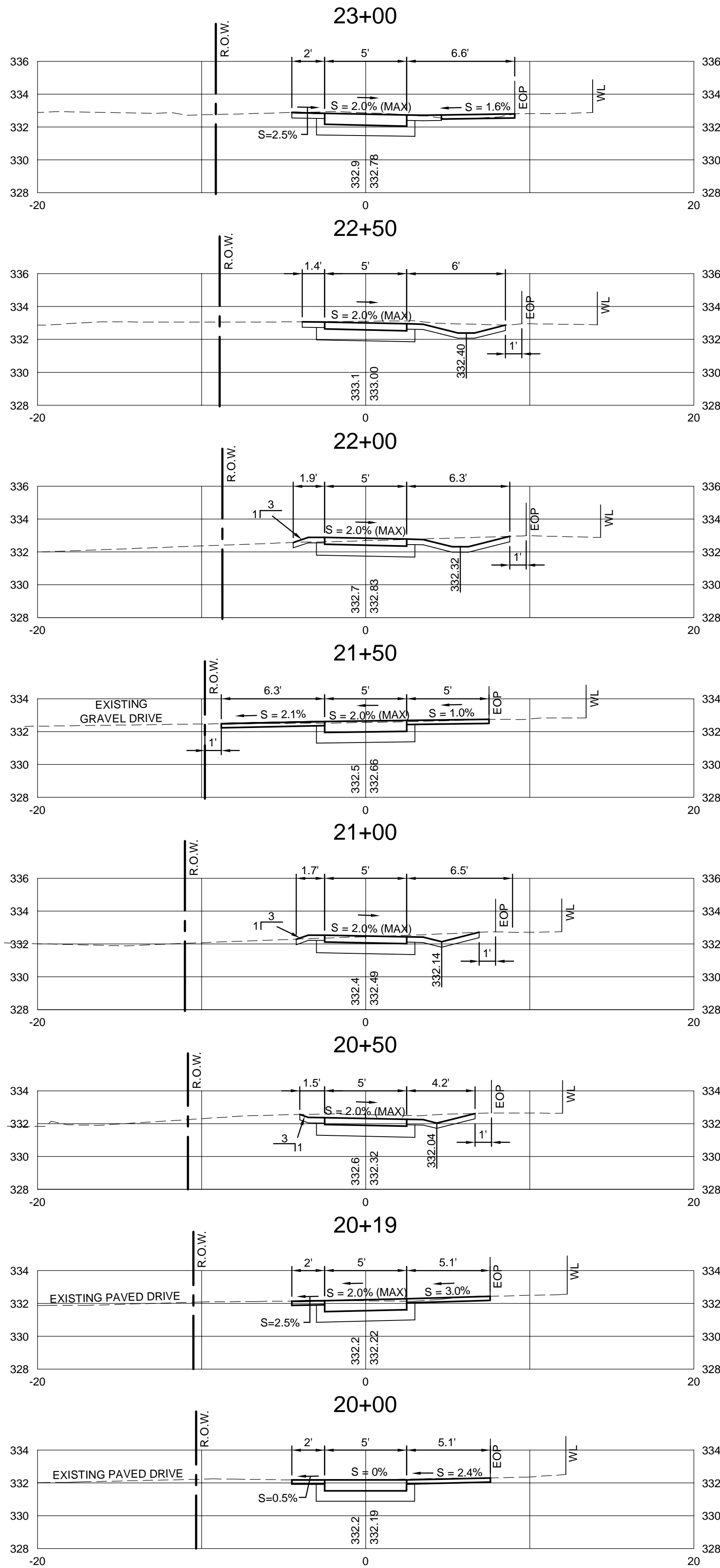
PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
CROSS SECTIONS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 25



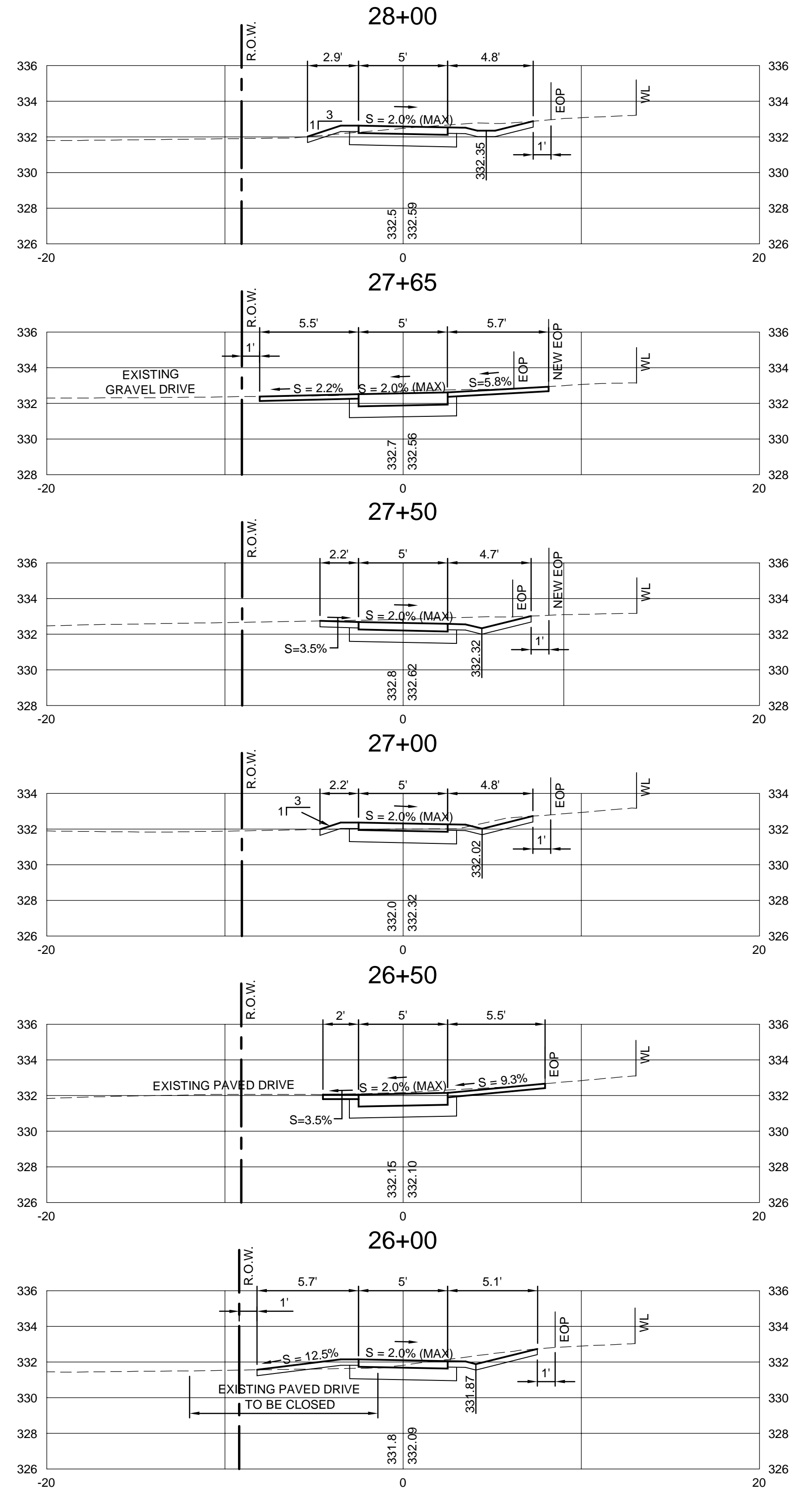
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LEGEND

R.O.W. RIGHT-OF-WAY  
EOP EDGE OF PAVEMENT  
WL WHITE LINE

**L** Lamoureux & Dickinson  
Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
802-878-4450 www.LDEngineering.com

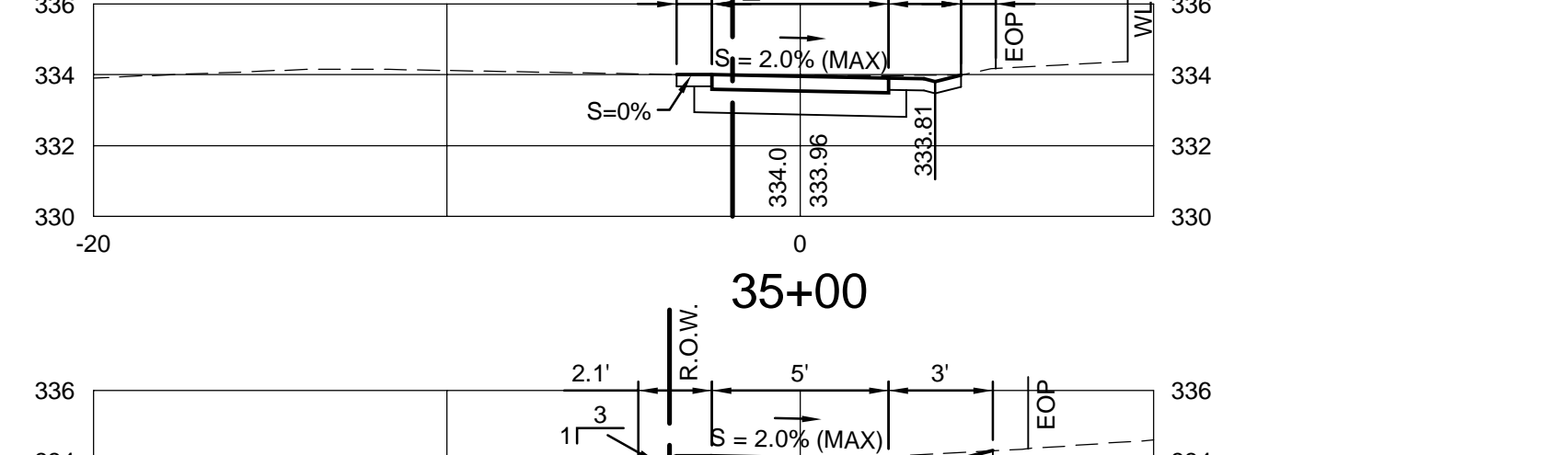
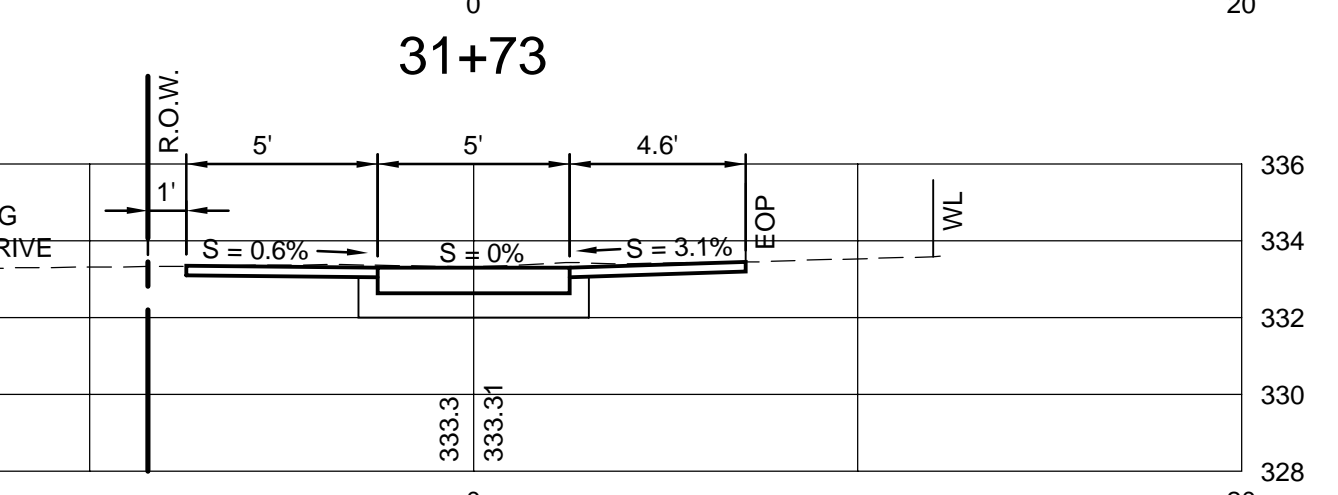
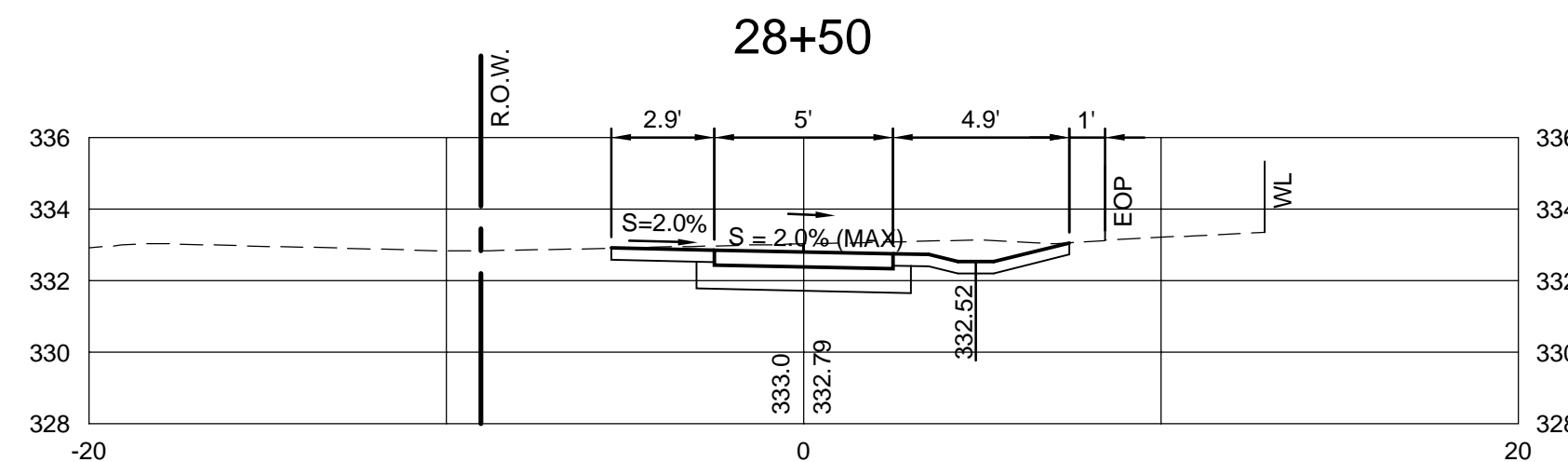


PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

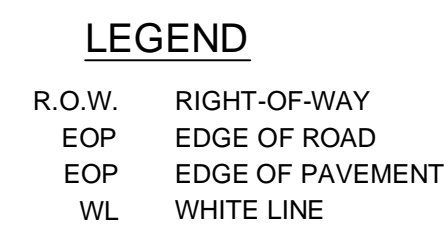
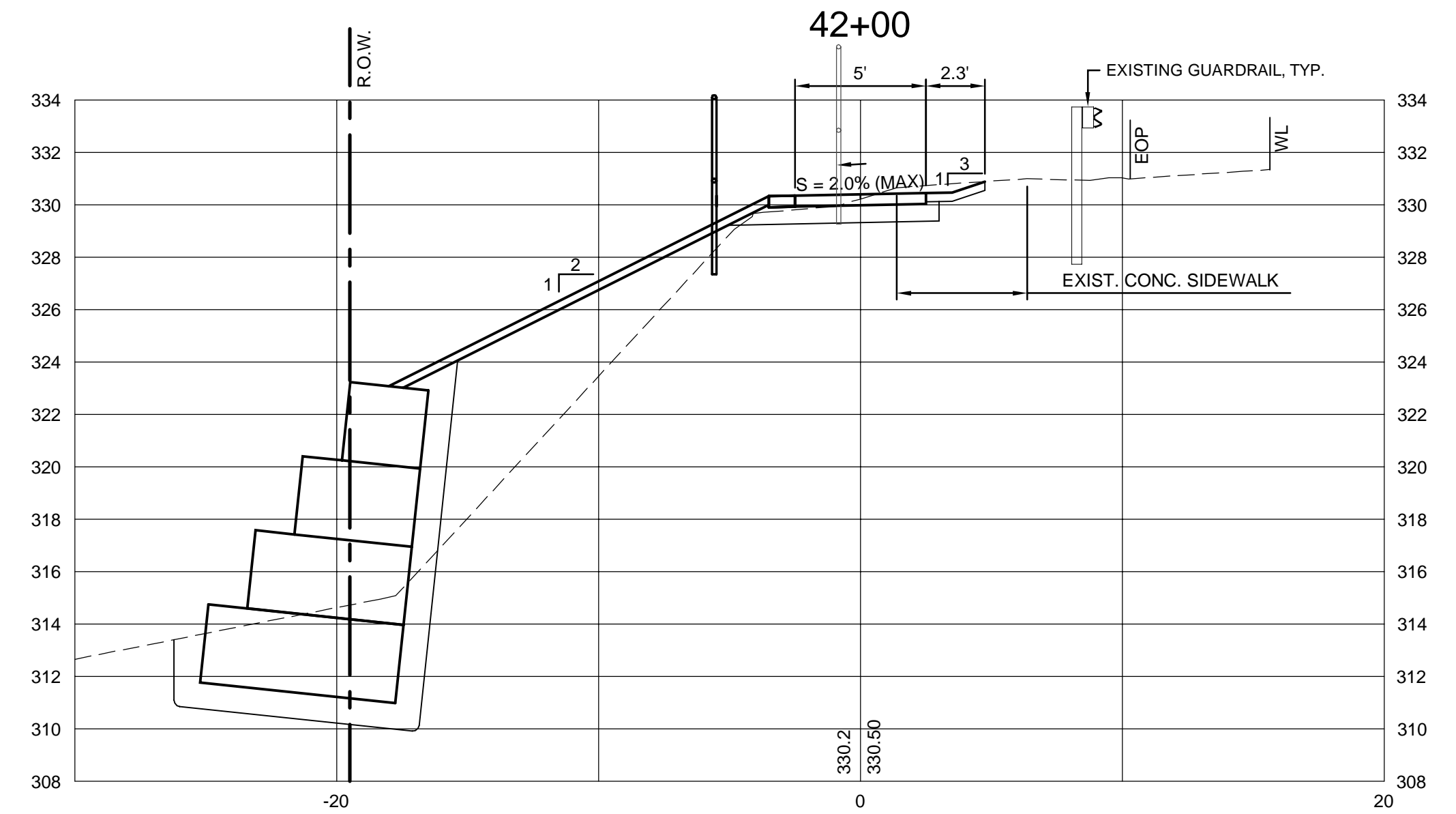
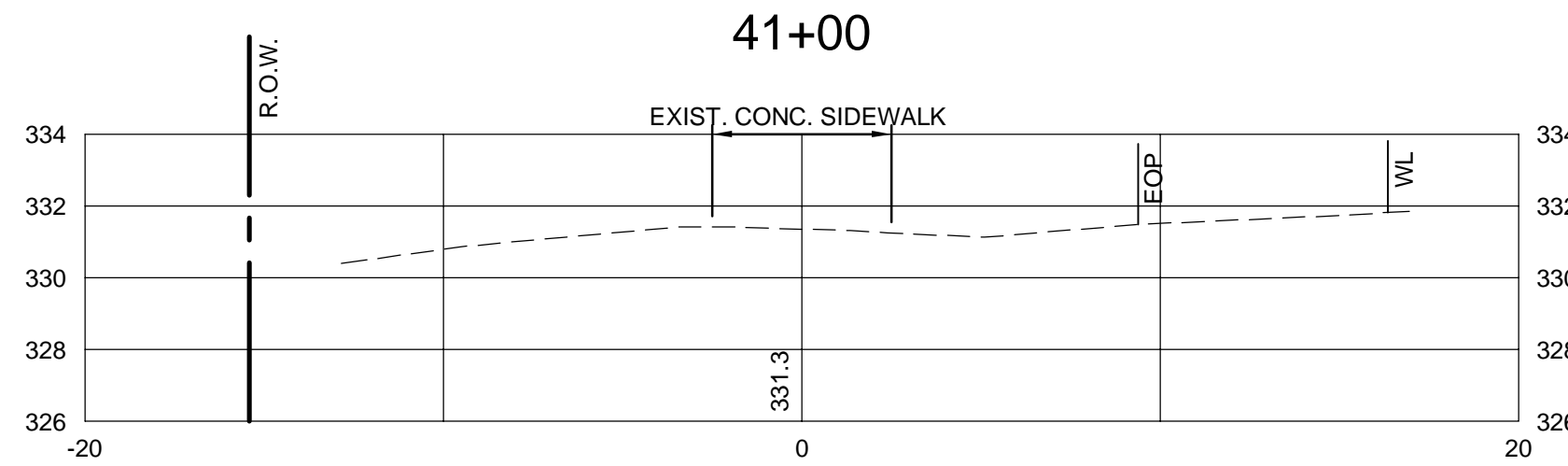
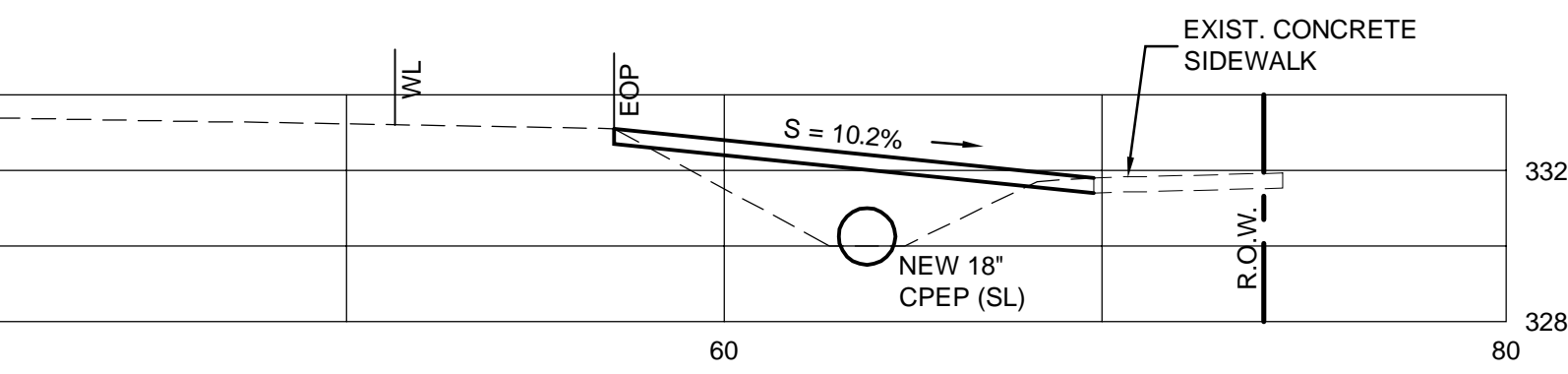
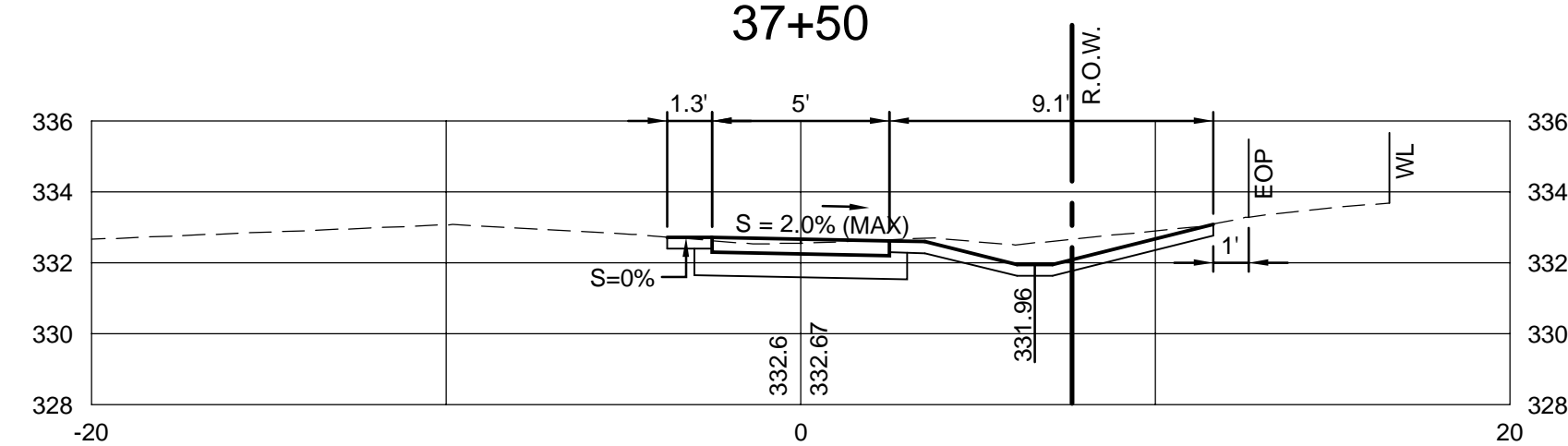
L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
CROSS SECTIONS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 26









**LD** **Lamoureux & Dickinson**  
Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
802-878-4450 [www.LDengineering.com](http://www.LDengineering.com)

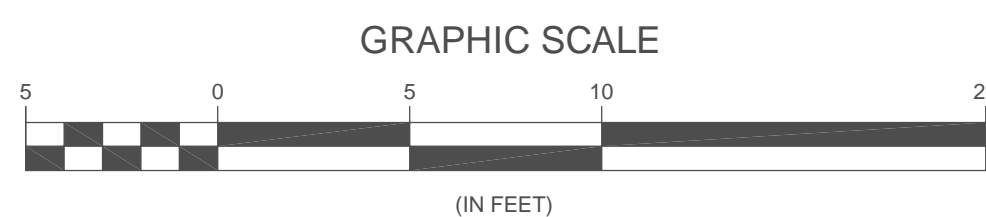
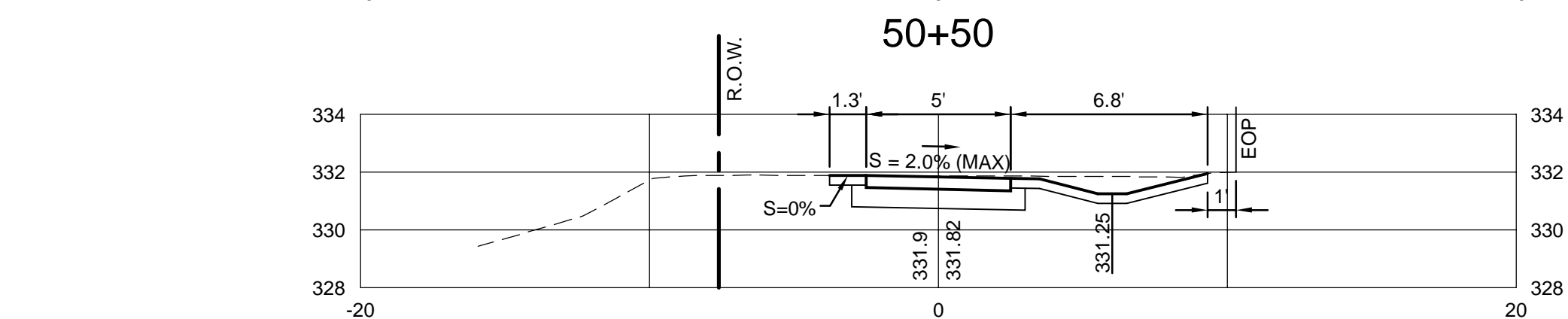
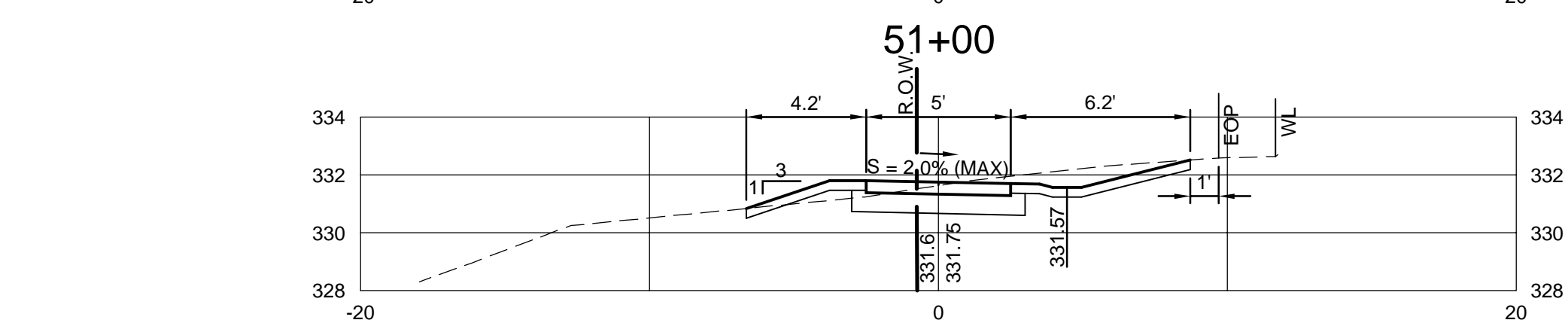
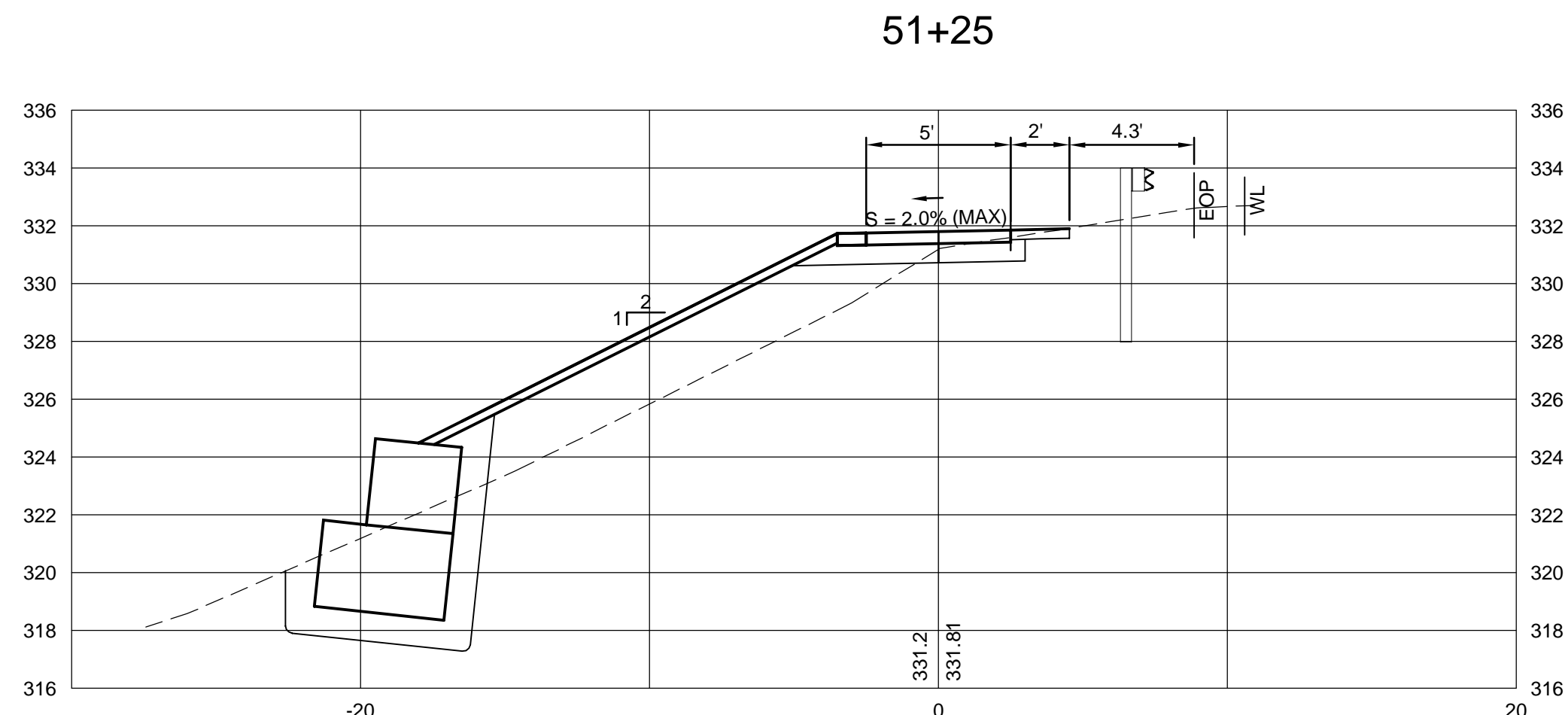
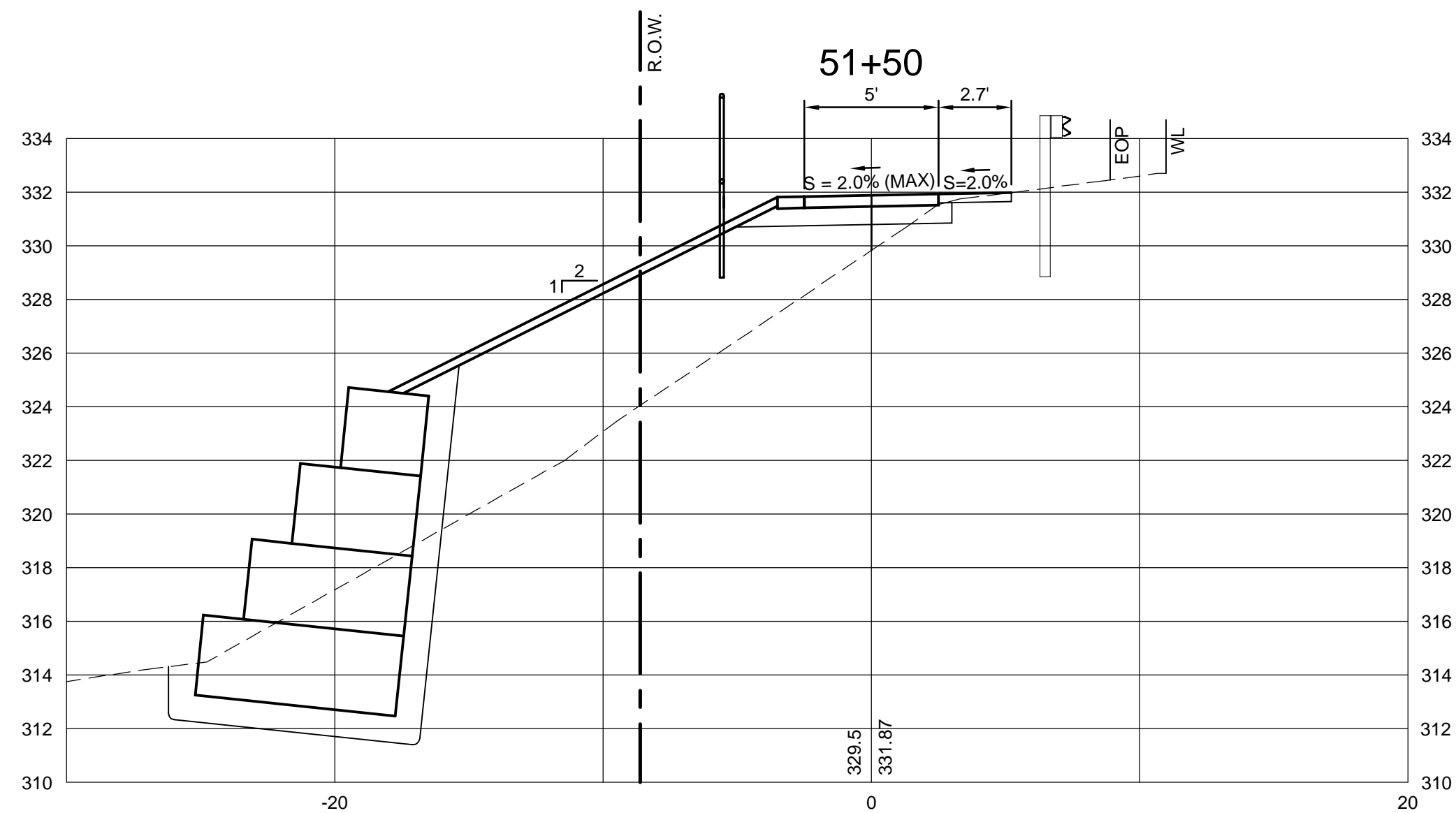
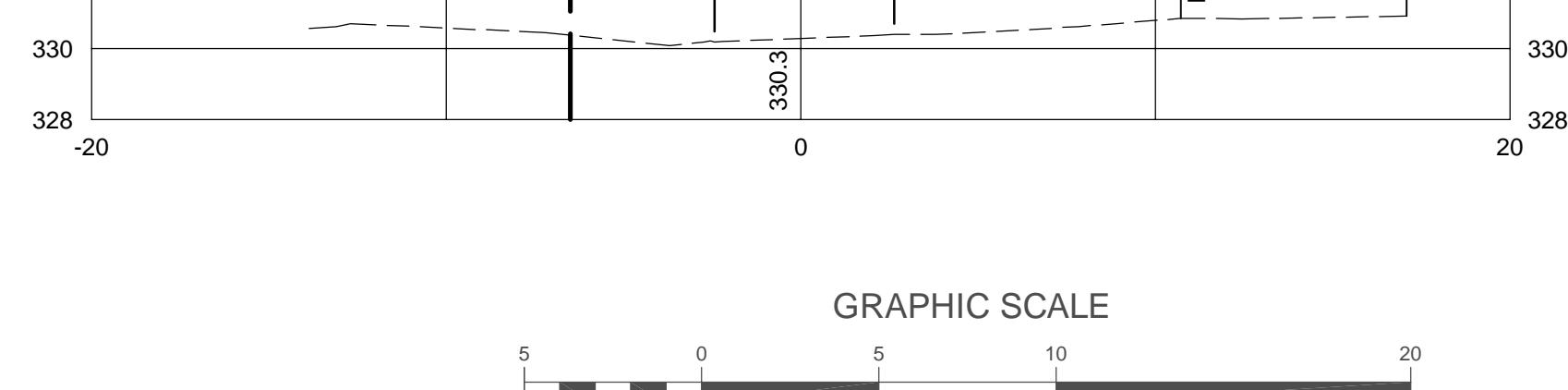
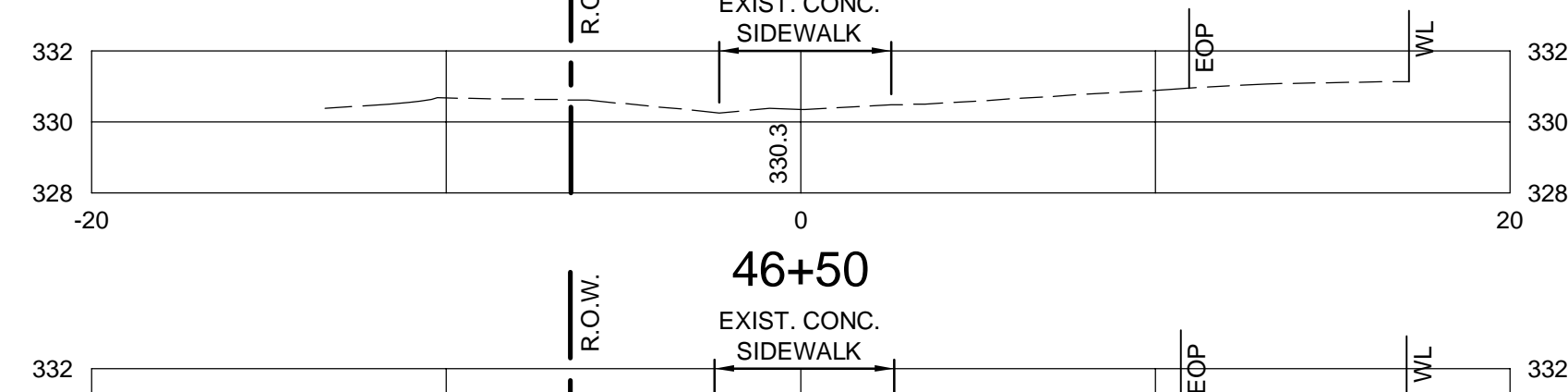
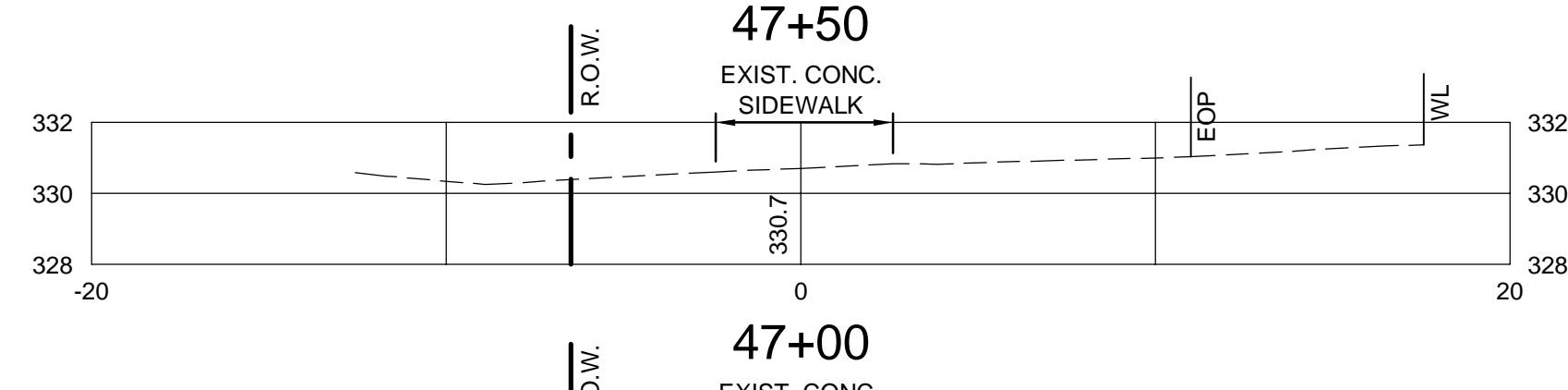
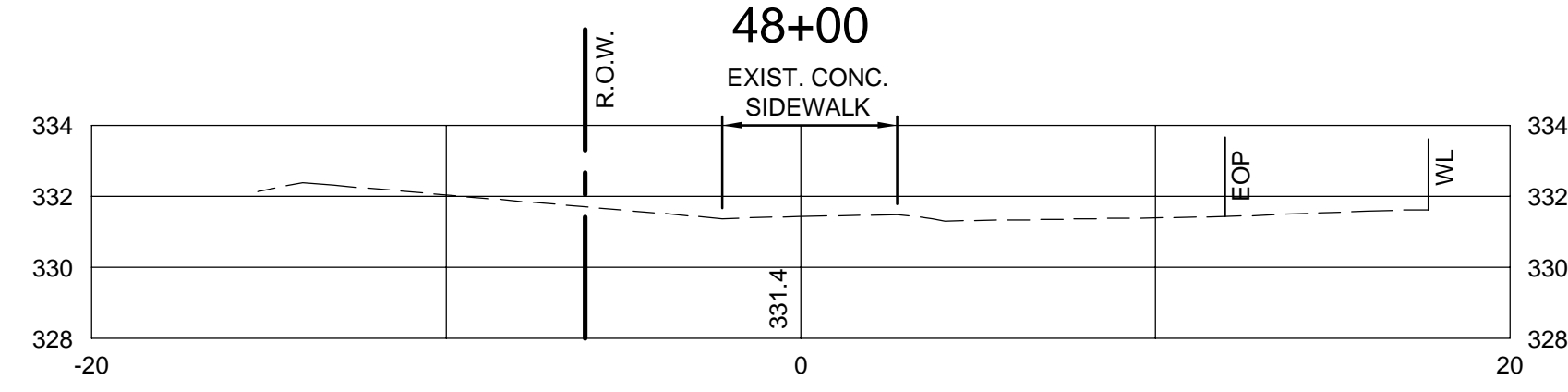
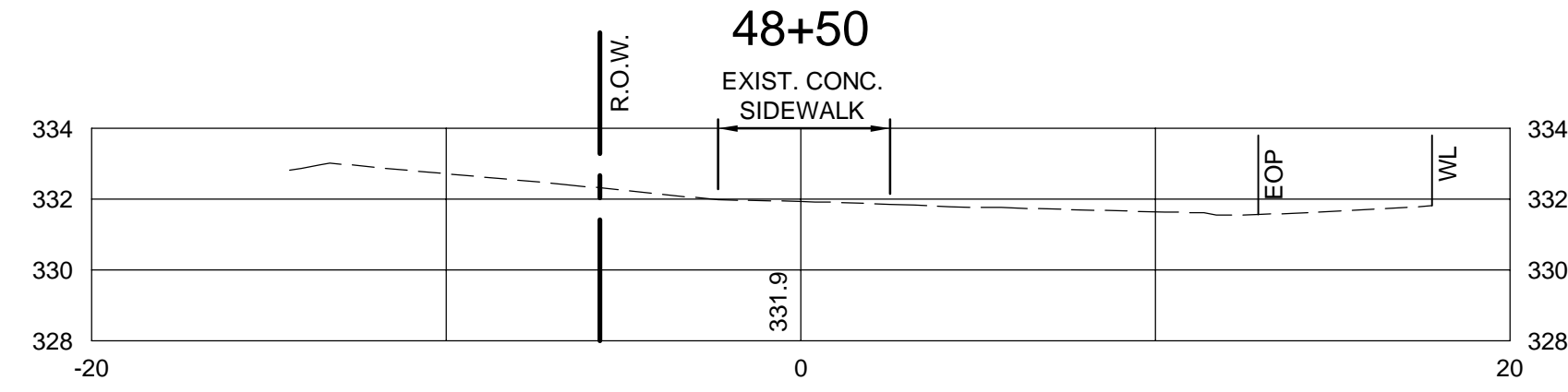
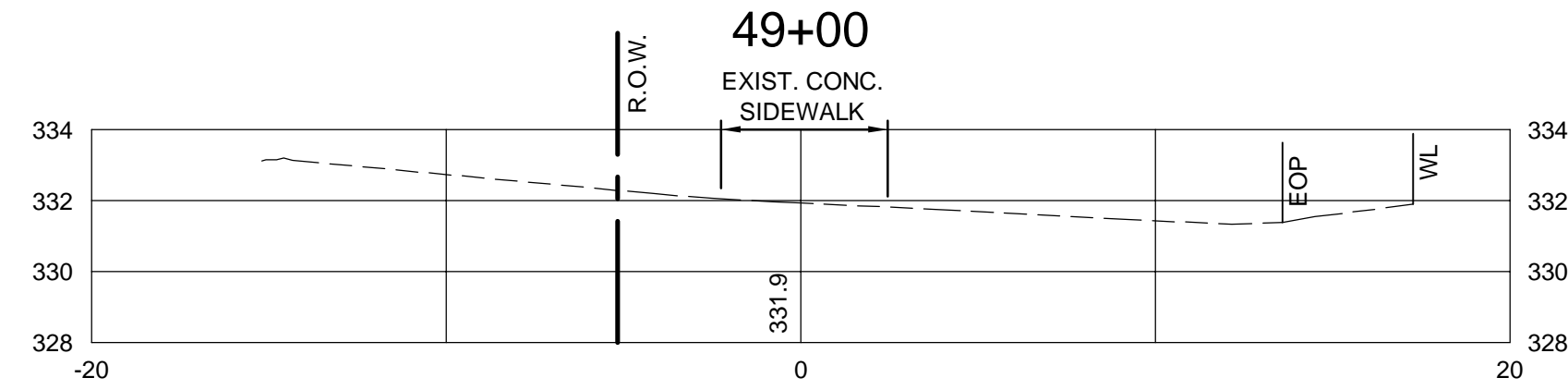
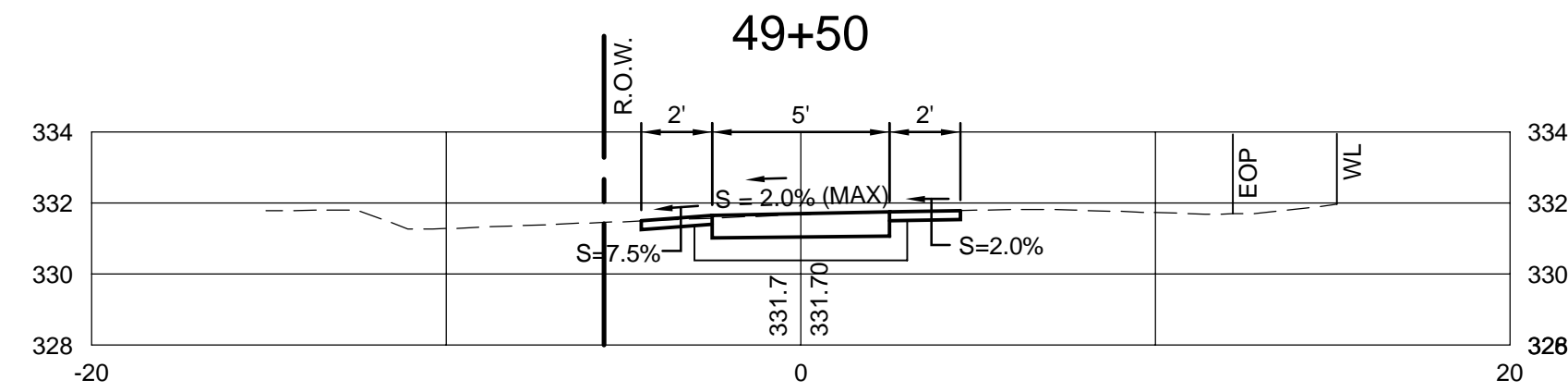
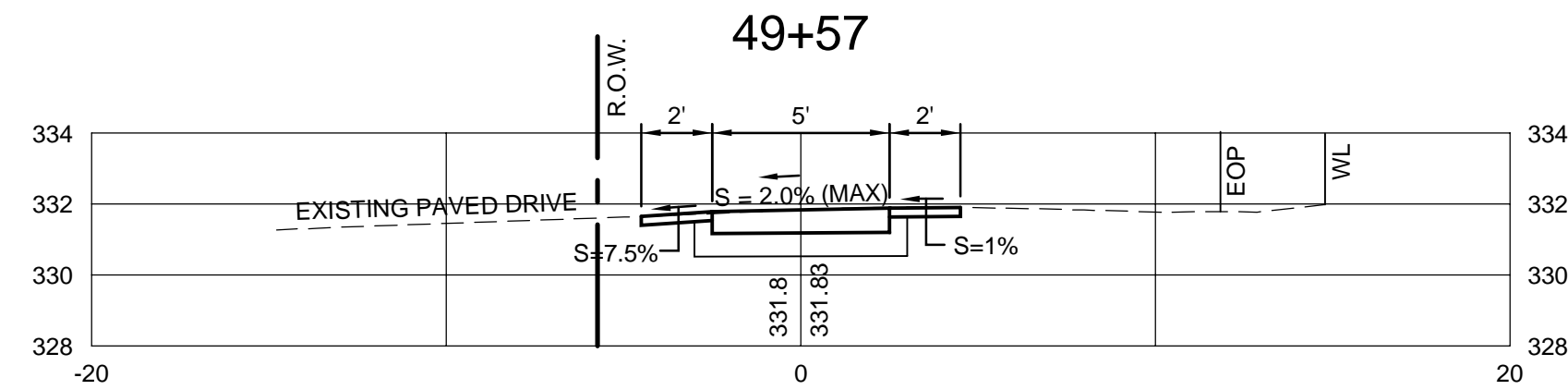
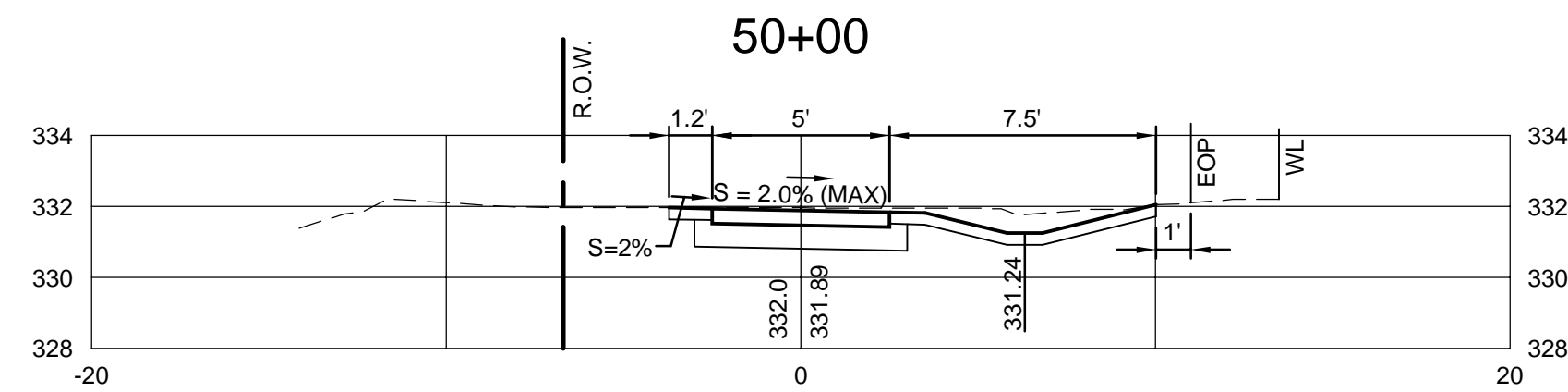
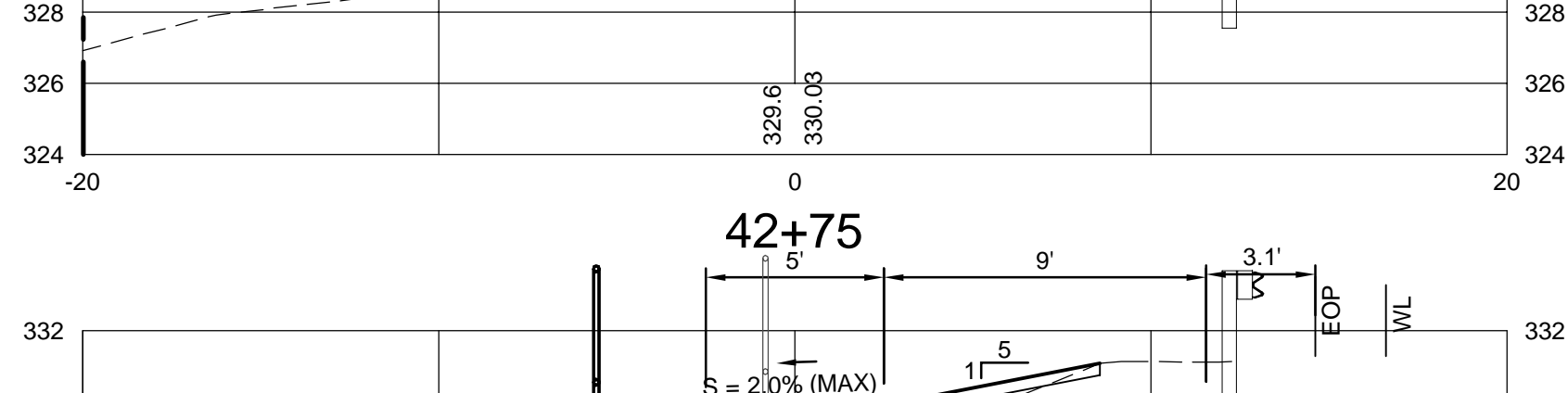
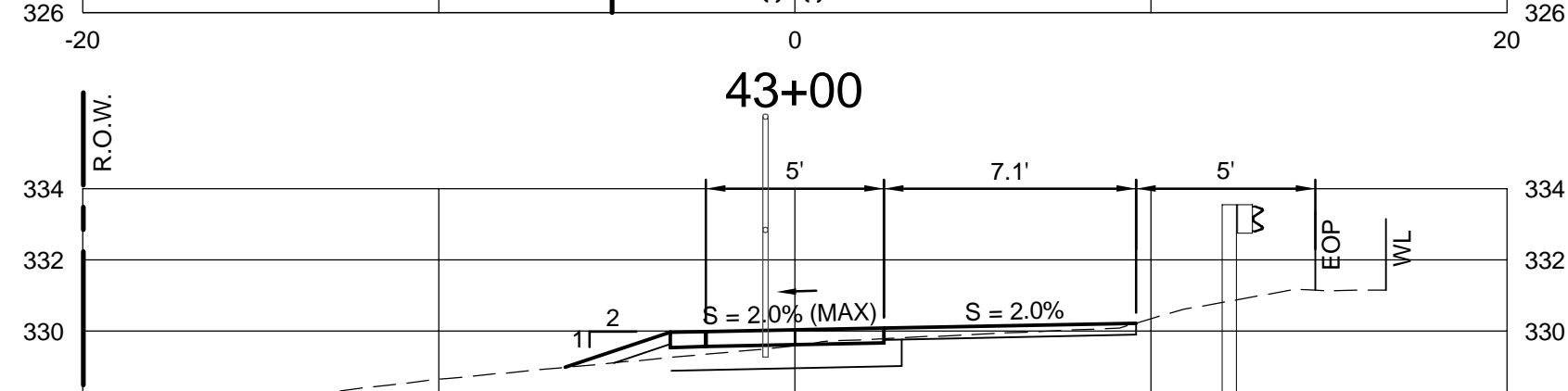
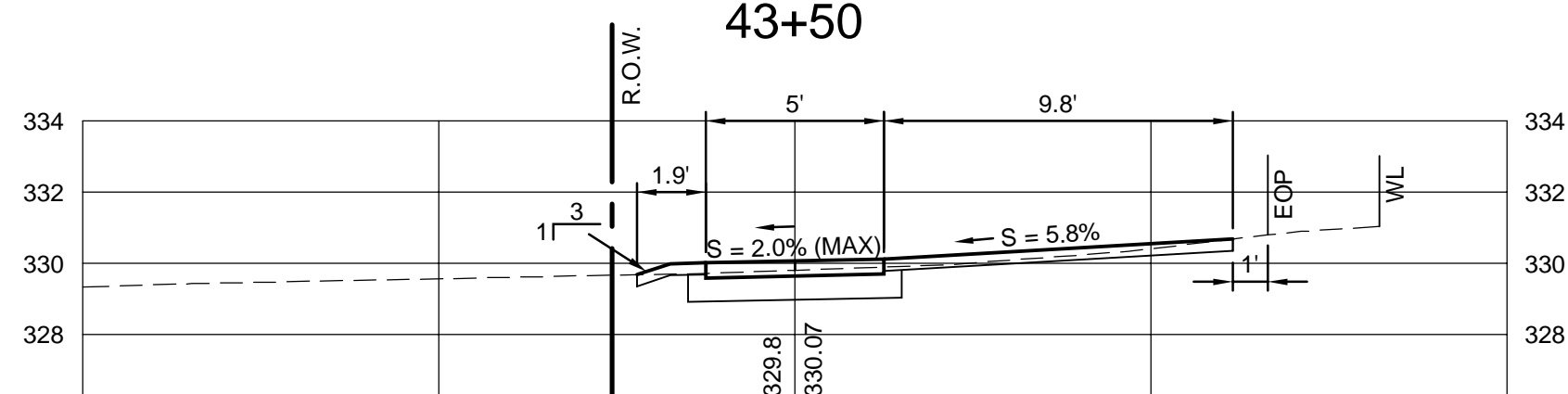
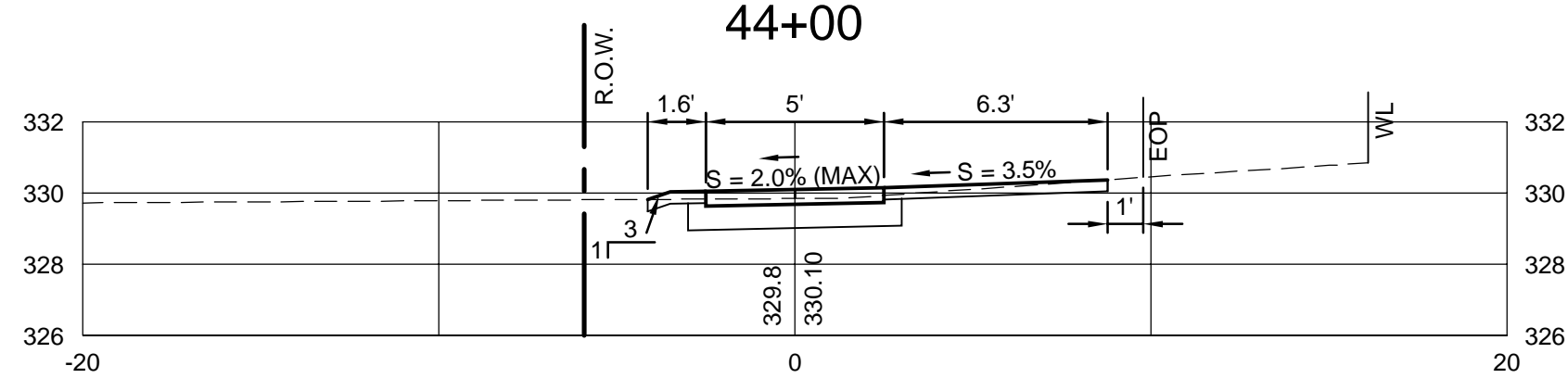
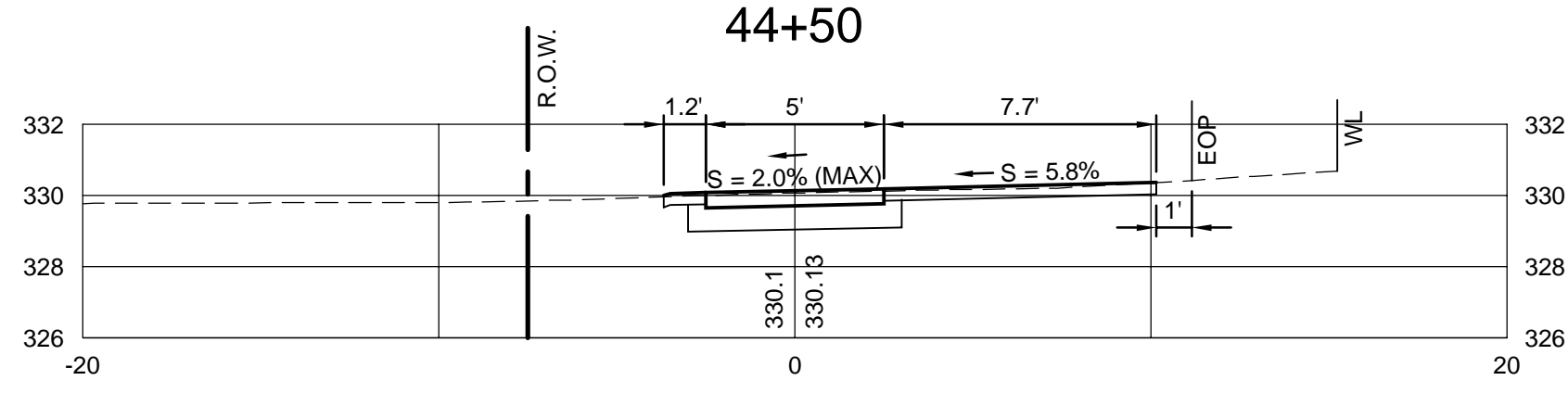
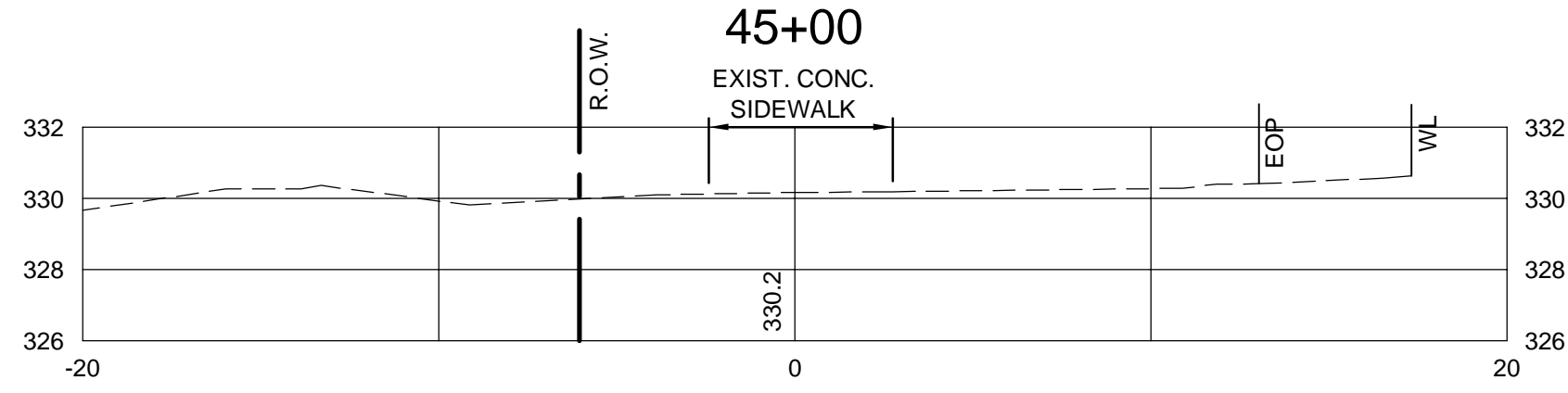
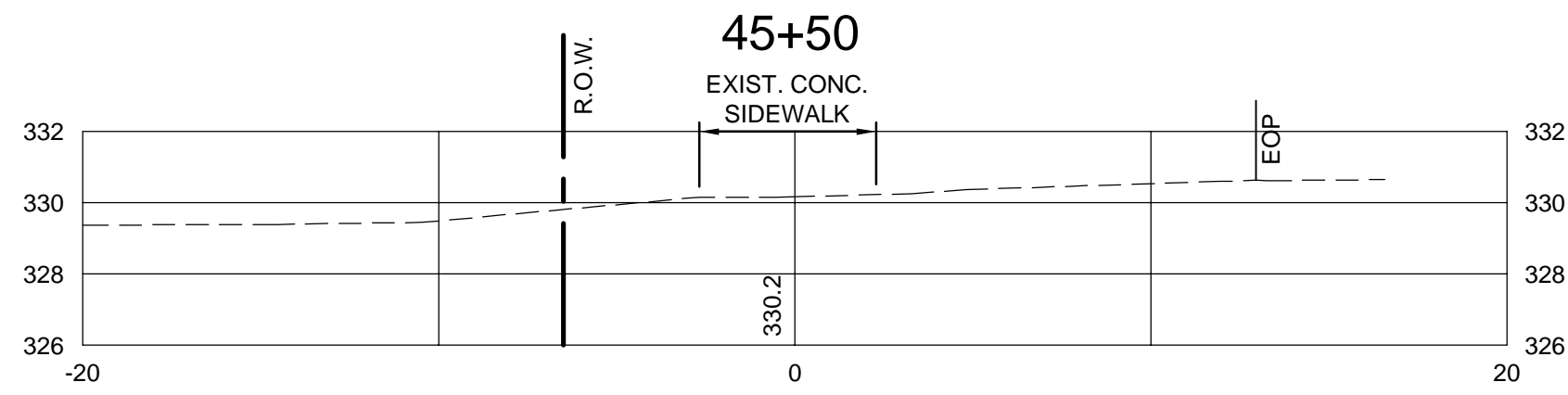
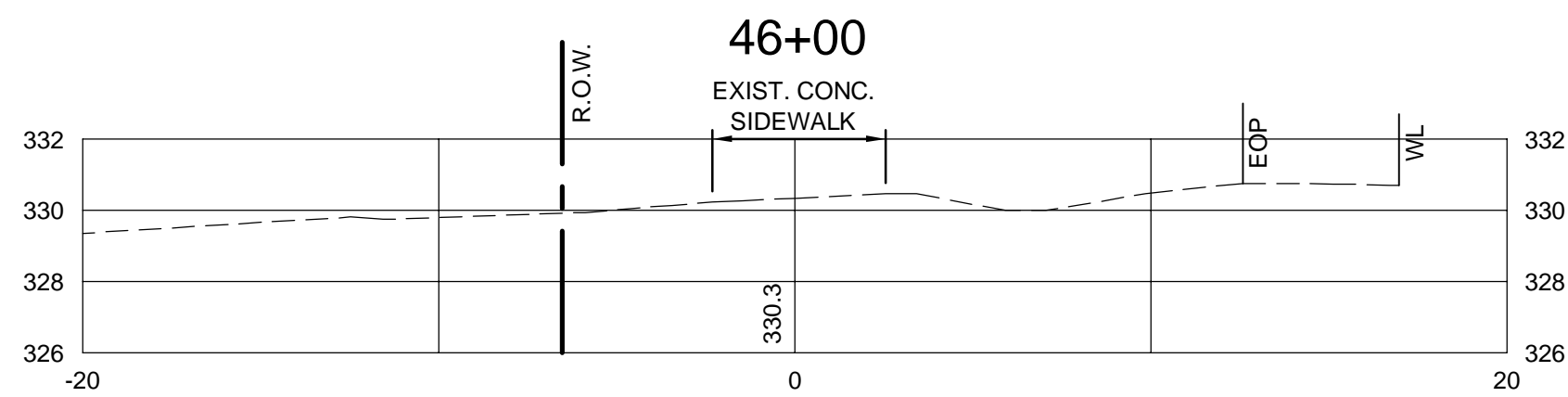
PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
CROSS SECTIONS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 28



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**LEGEND**

R.O.W. RIGHT-OF-WAY  
EOP EDGE OF PAVEMENT  
WL WHITE LINE

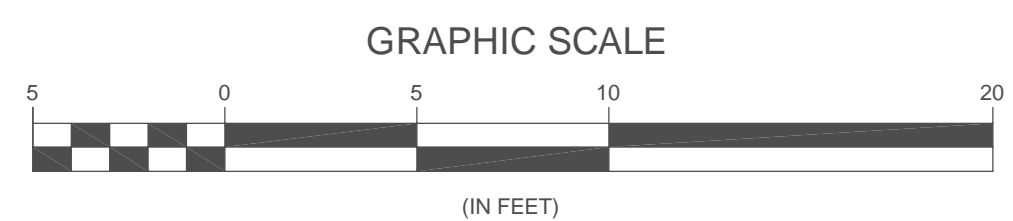
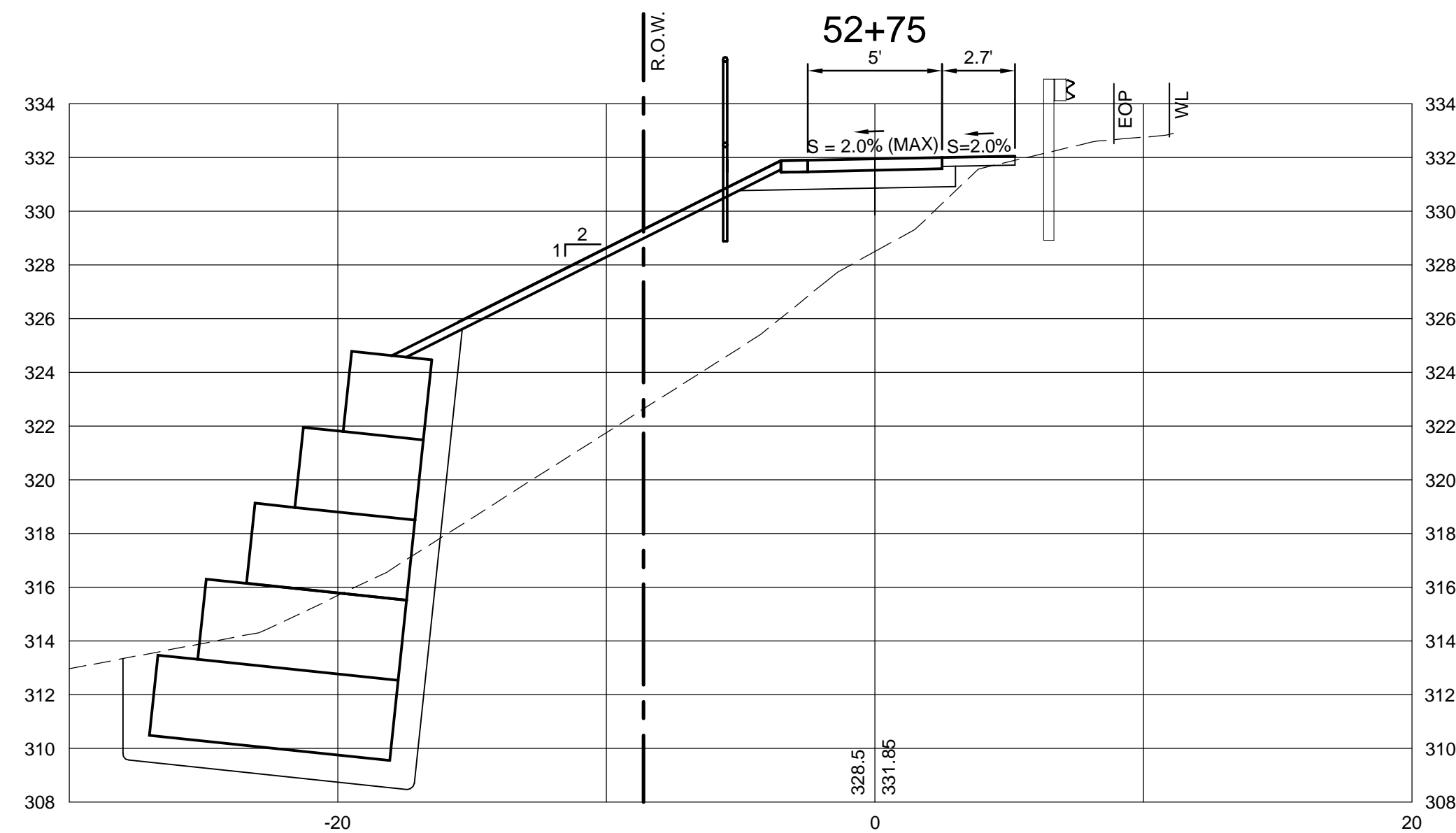
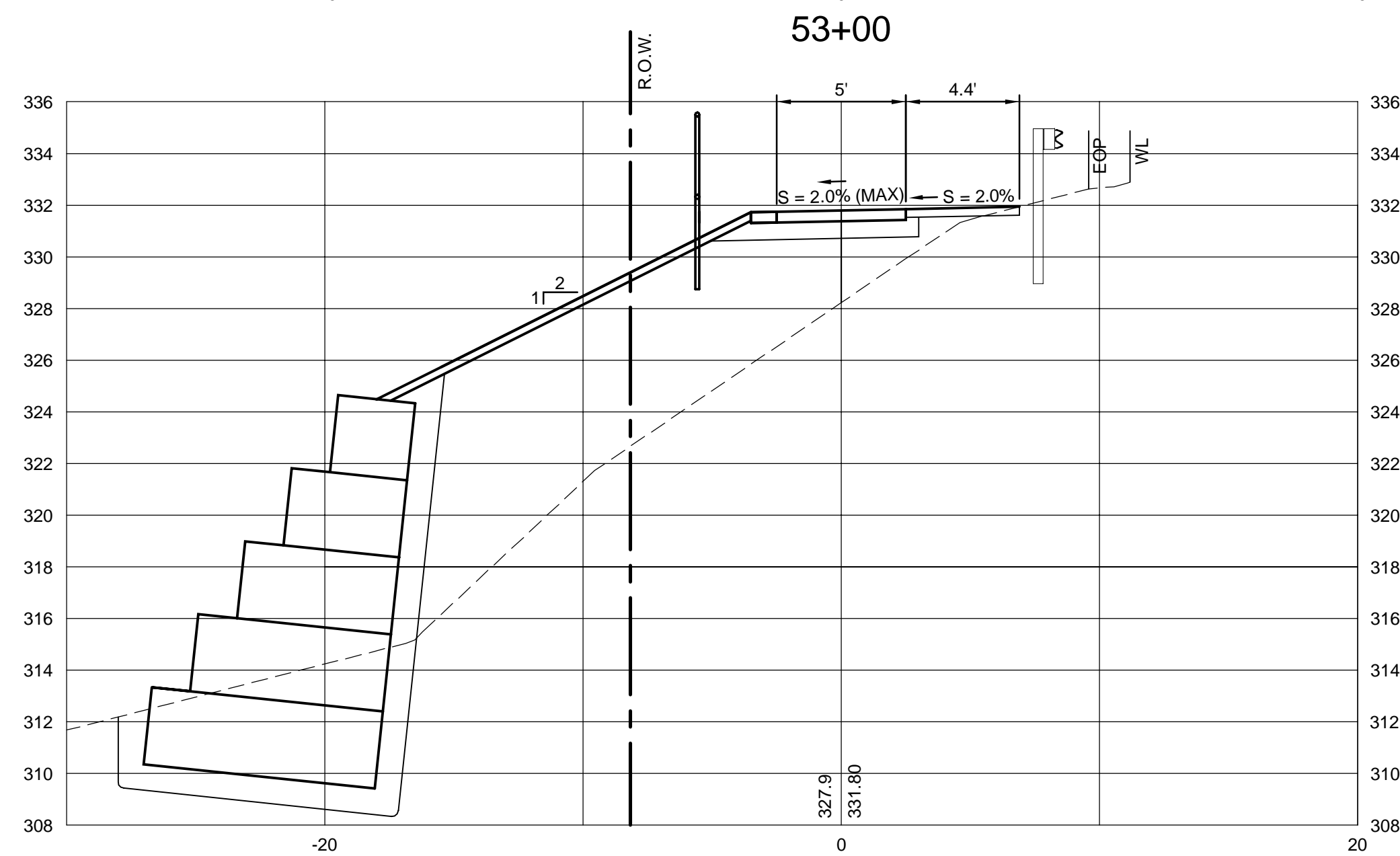
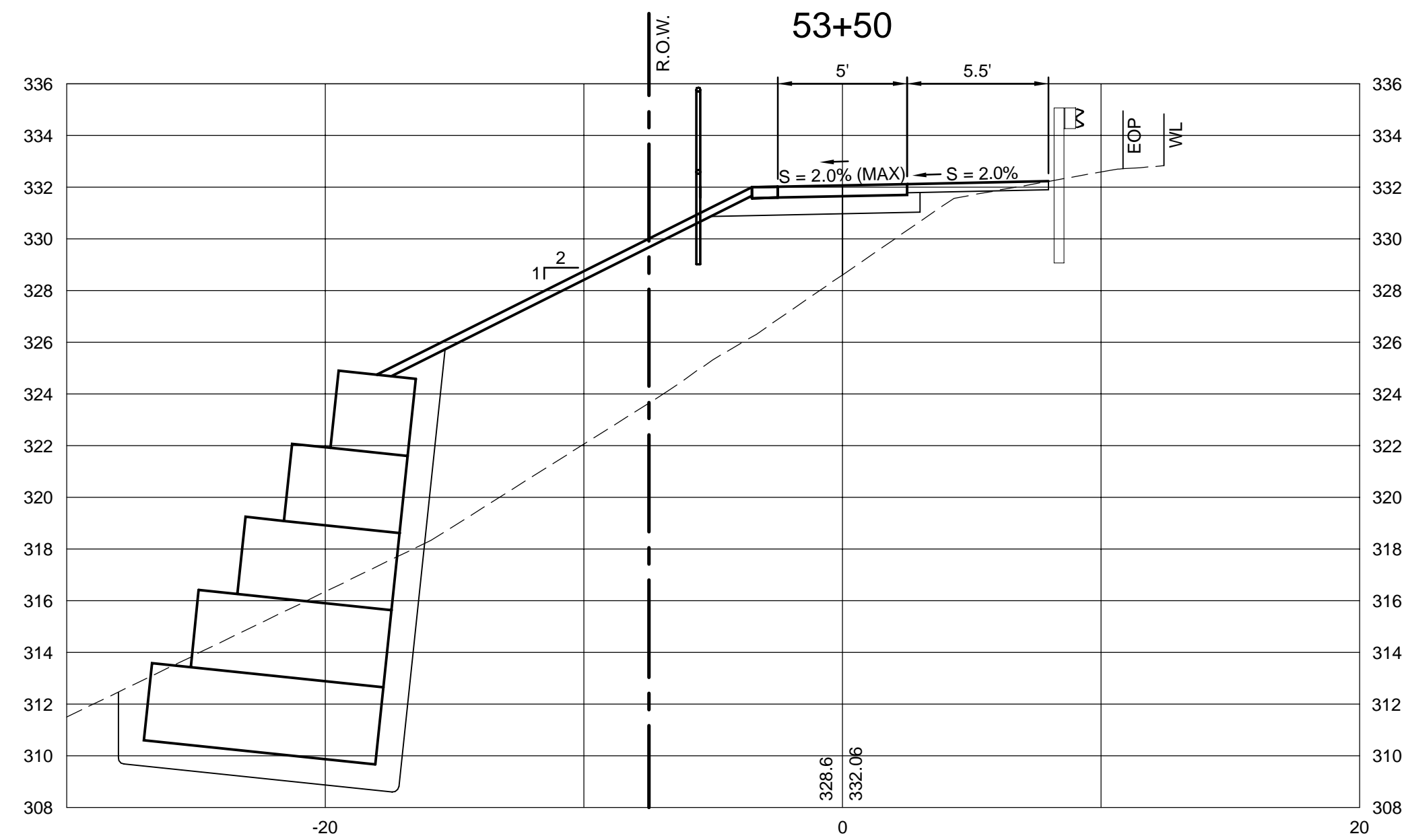
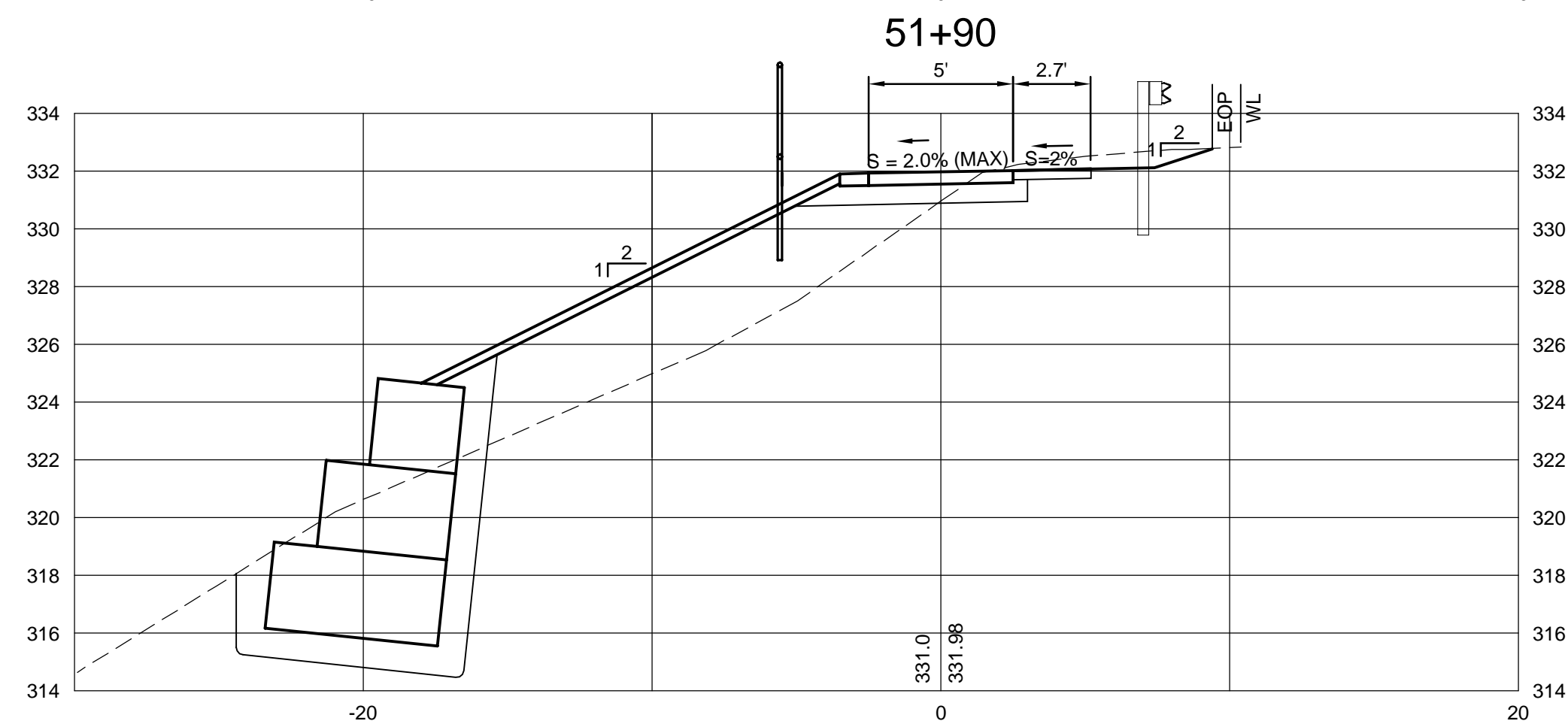
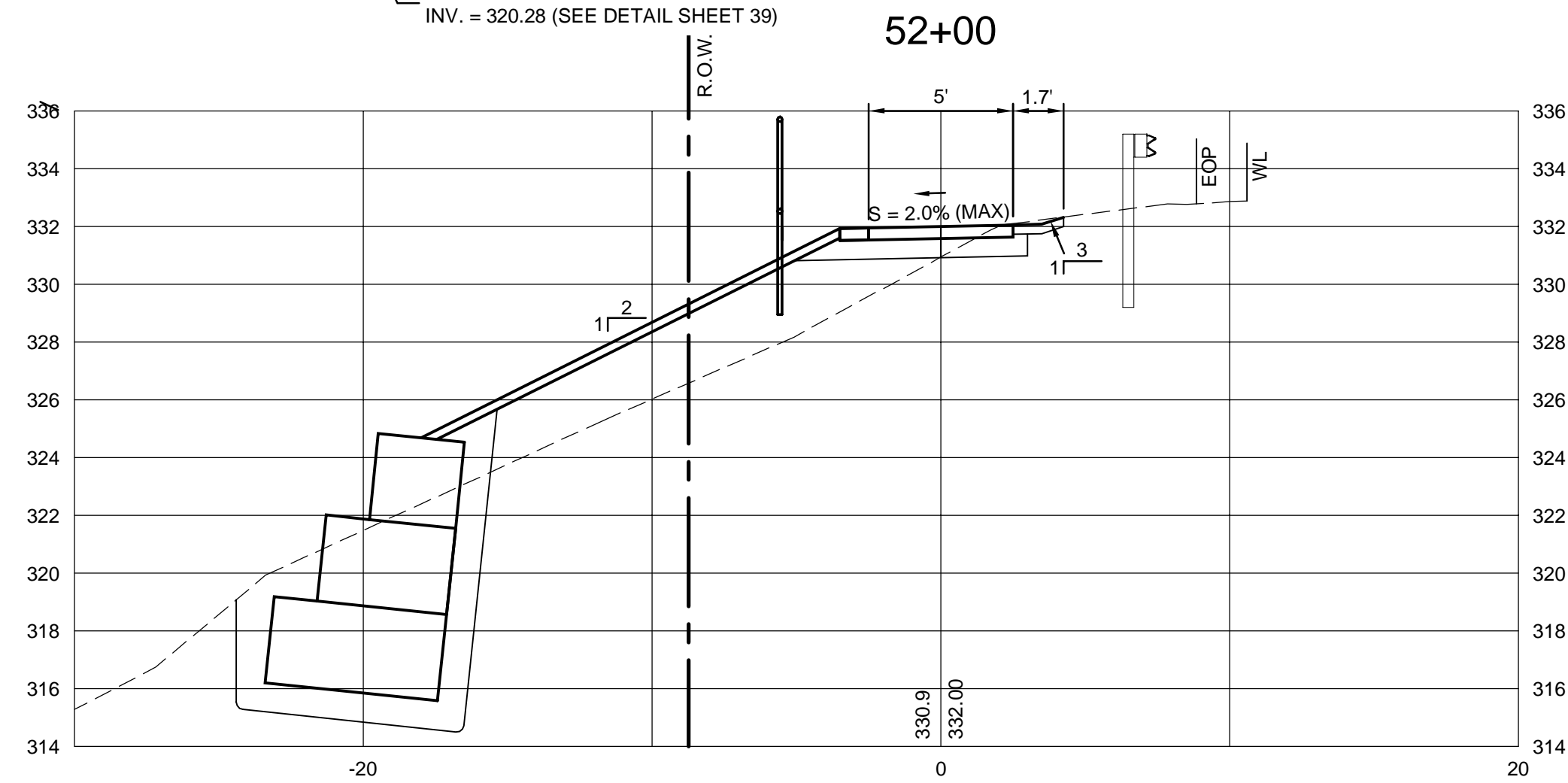
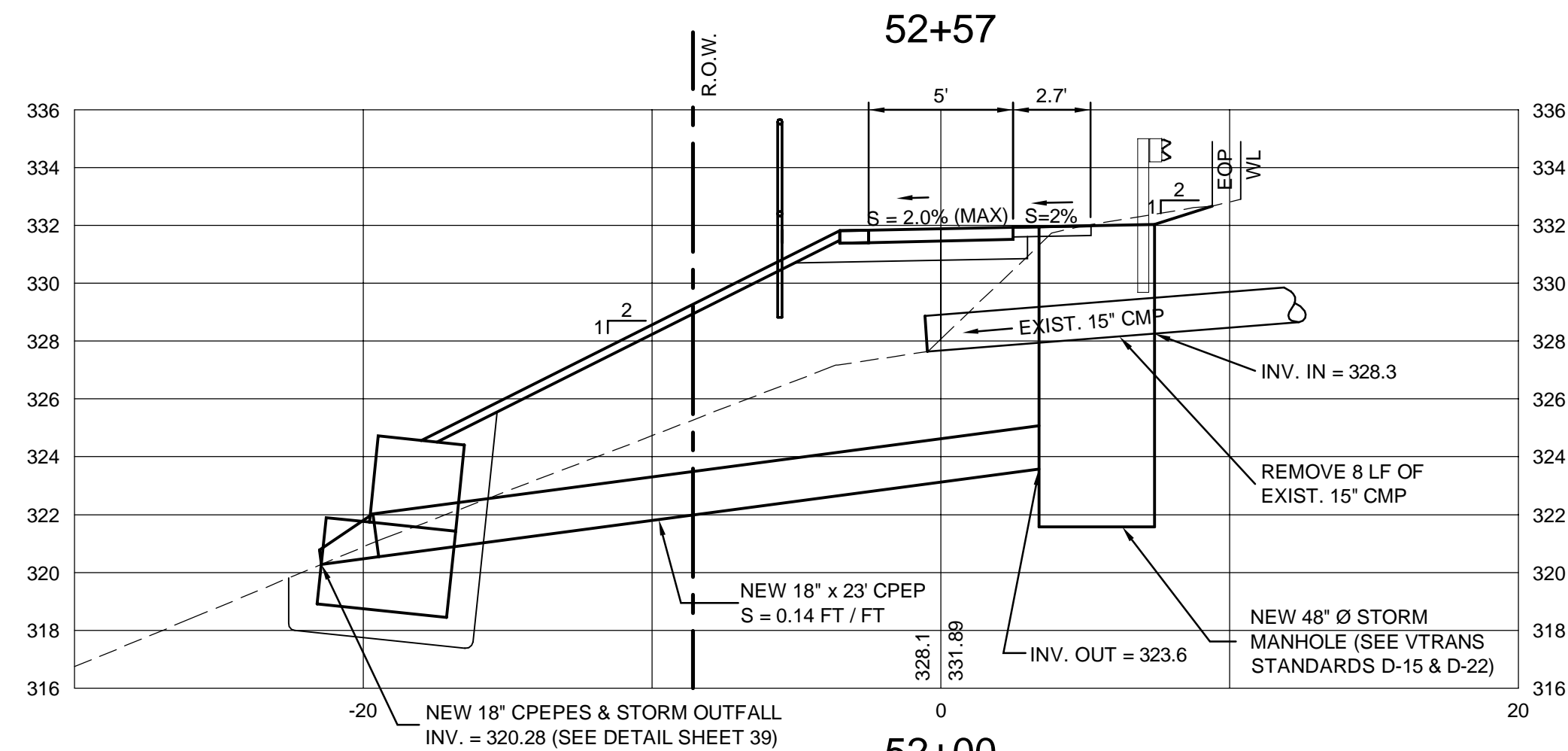
**Lamoureux & Dickinson**  
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PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
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CROSS SECTIONS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
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SHEET 29





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LEGEND

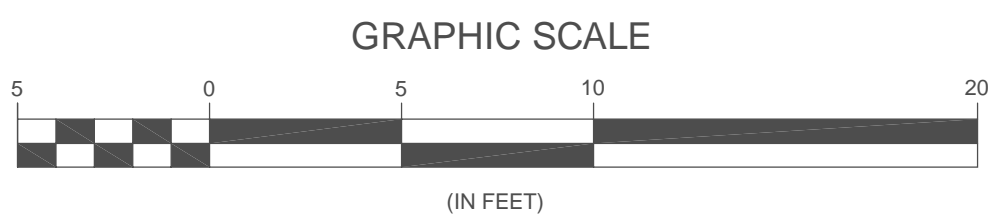
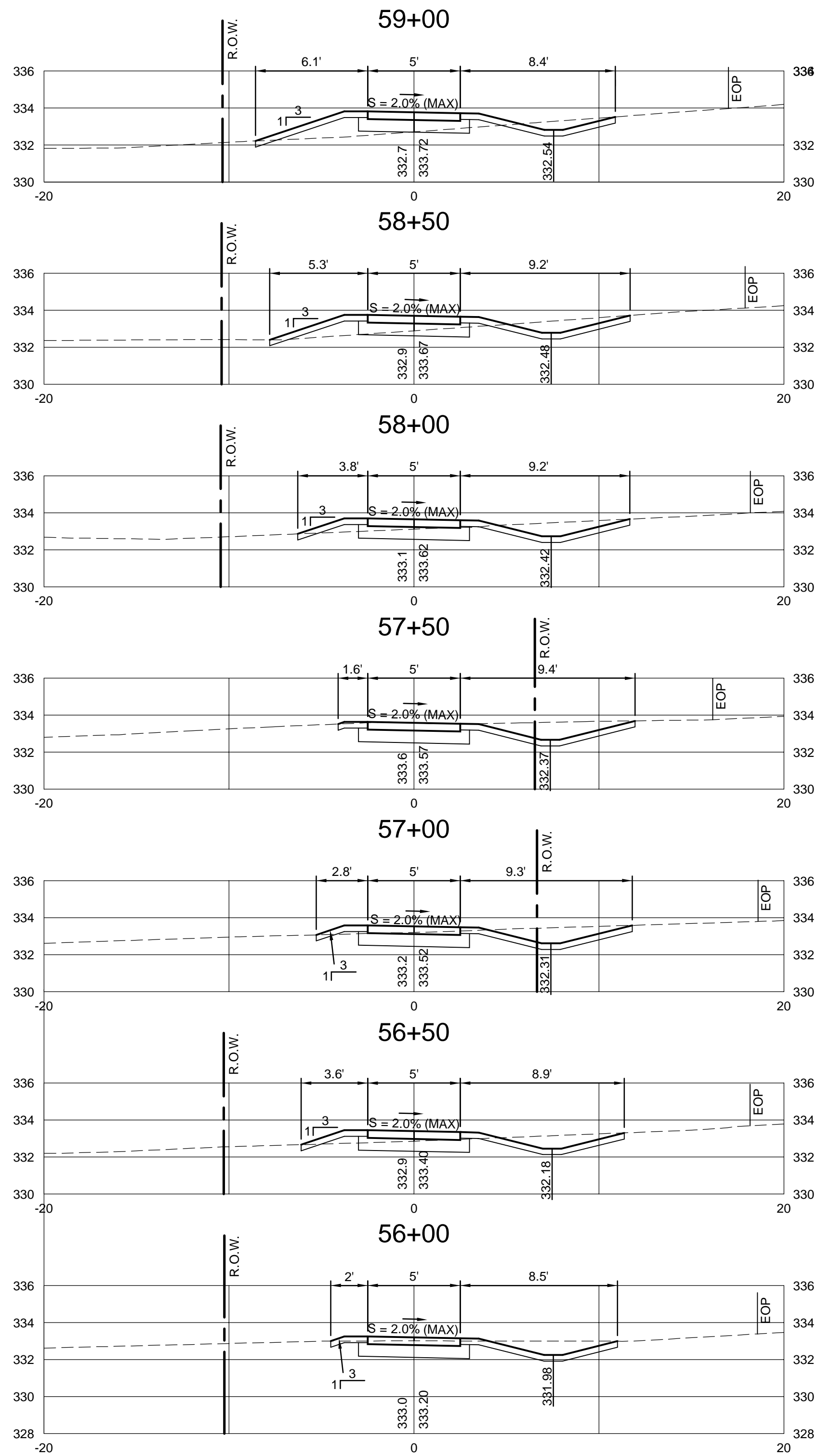
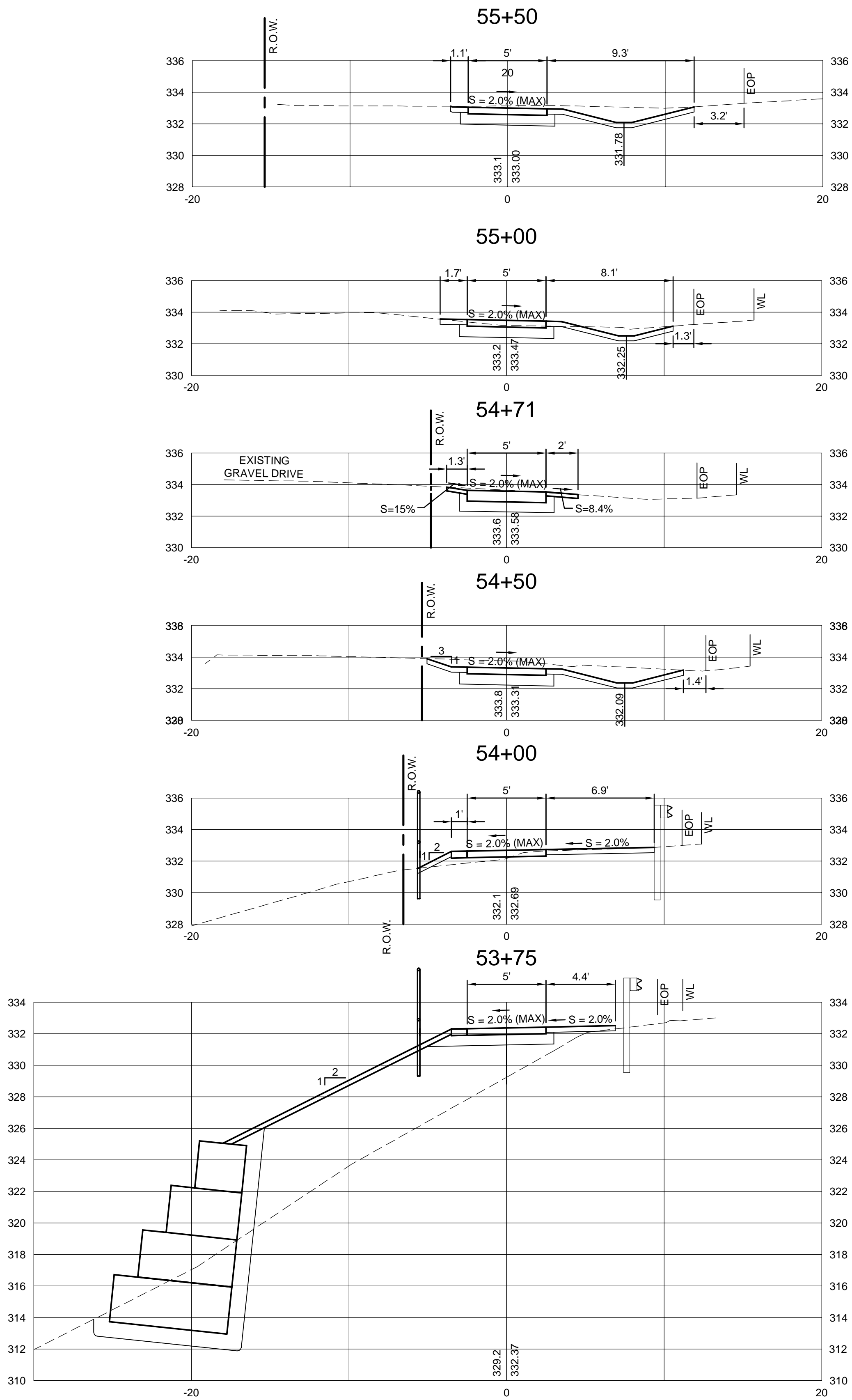
R.O.W. RIGHT-OF-WAY  
EOP EDGE OF PAVEMENT  
WL WHITE LINE

PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
CROSS SECTIONS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 30





LEGEND

R.O.W. RIGHT-OF-WAY  
EOP EDGE OF PAVEMENT  
WL WHITE LINE

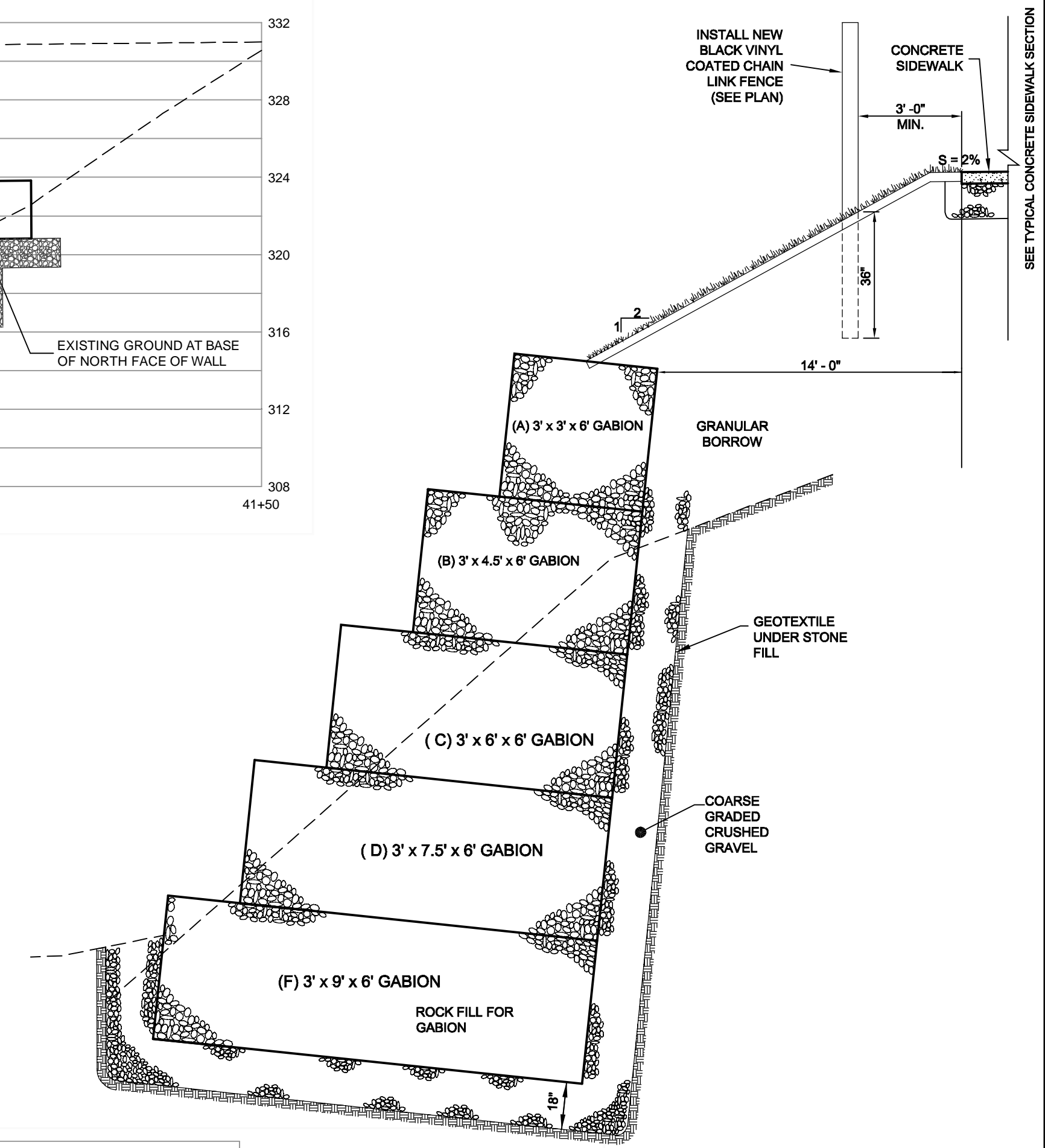
**L** Lamoureux & Dickinson  
Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
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PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
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PROJECT LEADER: DH  
DESIGNED BY: DH  
CROSS SECTIONS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 31

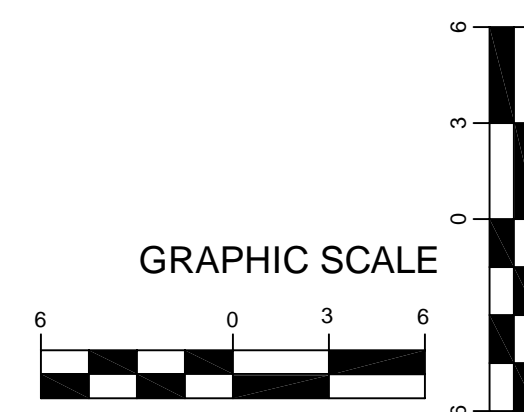




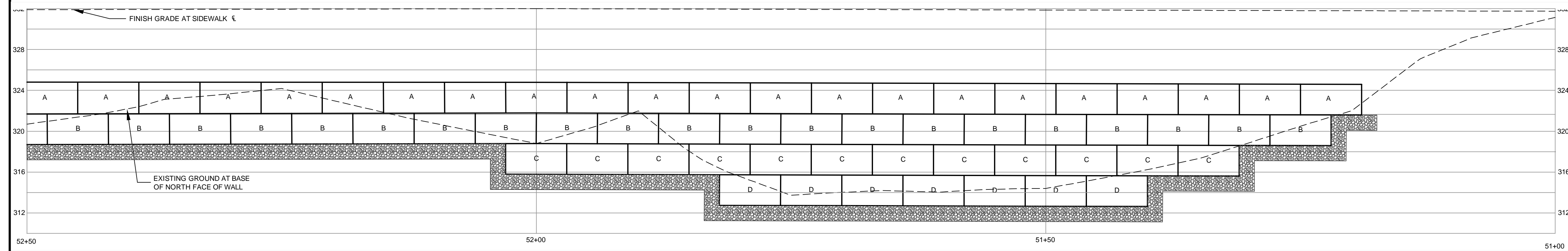
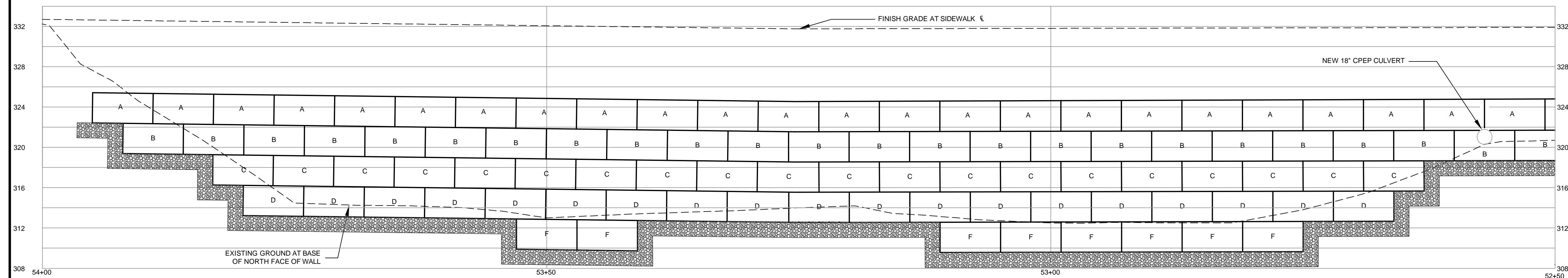
1. STANDARD GABION BASKETS ARE AS FOLLOWS;

COURSE	WIDTH	LENGTH	DEPTH
A	3'		3'
B	4.5'	6'	3'
C	6'	6'	3'
D	7.5'	6'	3'
E	9'	6'	1.5'
F	9'	6'	3'

2. THE FACE OF EACH COURSE SHALL BE STEPPED BACK 1.5' FROM THE FACE OF THE COURSE BELOW IT
3. THE GABION WALL SHALL BE BATTERED BACK AT A 6° ANGLE.



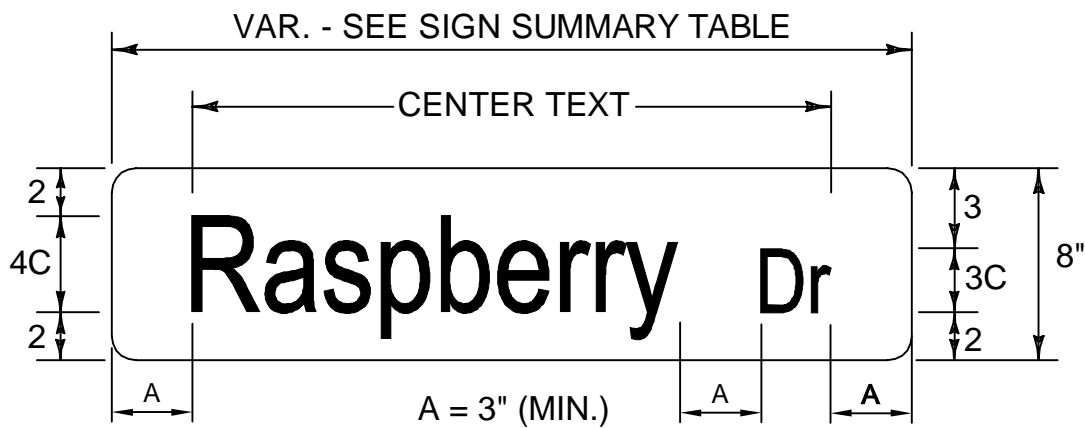
**TYPICAL GABION WALL SECTION**  
NTS



PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 32



SIGN SUMMARY TABLE												
STATION	SIGN LEGEND	SIGN DIMENSIONS				AREA (SF)	NEW SIGN POSTS					MUTCD
		EACH	SALVAGED	WIDTH (in)	HEIGHT (in)		NO. OF POSTS	SQUARE STEEL (in)				
								1.75	2.0	2.5		
								lb/ft				
								1.88	2.42	3.35		
10+49 L	<div>Nancy Dr</div>	1		30"	8"	1.67	1		15		SEE DETAIL THIS SHEET	
17+36 L	<div>STOP</div>	1	1	30"	30"	6.25					R1-1	
34+41 L	<div>Landfill Rd</div> <div>STOP</div>	1		30"	8"	1.67	1		15		SEE DETAIL THIS SHEET	
		1		30"	30"	6.25					R1-1	
36+85 R	<div>ONLY</div>	1		36"	30"	7.50	1		15		VR-922	
TOTAL		5	1			SF	EA	FT	FT	FT		
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."						23.34	3		45			
						TOTAL	SF		FT			
						23.34			90			



D3-1 SAMPLE SIGN

### STREET NAME SIGN NOTES

#### DESIGN

EXCEPT AS SPECIFIED BELOW, LETTERS, DIGITS, ARROWS, SYMBOLS, SPACING AND TEXT DIMENSIONS SHALL CONFORM WITH THE "STANDARD HIGHWAY SIGNS BOOK - 2012 SUPPLEMENT" AND DESIGNS PRESCRIBED IN THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) ADOPTED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION (FHWA). STREET NAME SIGNS SHALL USE A 12" HIGH BLADE WITH SERIES "C" LETTERING. SPACING BETWEEN LETTERS IN EACH WORD SHALL BE KERNED AT 80%.

#### MATERIALS

THE MATERIAL FOR THE BLADES SHALL BE FLAT SHEET ALUMINUM WITH A MINIMUM THICKNESS OF 0.125 INCH. THE MOUNTING METHOD FOR STREET NAME SIGNS SHALL USE POST TOP MOUNTING BRACKETS HAVING A 12" SLOT LENGTH. HARDWARE FOR MOUNTING SIGNS TO POST SHALL BE INCIDENTAL TO OTHER ITEMS. THE MINIMUM VERTICAL CLEARANCE IS 8'-0" TO THE BOTTOM OF THE SIGN. FOR POST TOP MOUNTINGS, STREET NAME SIGNS SHALL HAVE TEXT ON BOTH SIDES. STREET NAME SIGNS SHALL HAVE 1.5" CORNER RADII.

#### COLORS

STREET NAME SIGNS SHALL HAVE REFLECTORIZED WHITE TEXT ON A REFLECTORIZED GREEN BACKGROUND.

## TREE PLANTING SCHEDULE

PLANT LIST - PARTICIPATING TREES WITHIN STATE & TOWN HIGHWAY RIGHT OF WAYS						SHOWN ON SHEET NUMBER											
KEY	COMMON NAME	BOTANICAL NAME	SIZE & CONTAINER	SPACING / COMMENTS	CONTAINER	15	16	17	18	19	20	21	22	23	Total		
AFC	CELEBRATION MAPLE	ACER FREEMANI CELEBRATION	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	6	4	-	-	-	-	-	-	-	10		
GSK	STREETKEEPER HONEY LOCUST	GLEDITSIA TRIACANTHOS 'STREET KEEPER'	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	2	-	-	-	-	-	-	-	-	2		
MA	ADIRONDACK CRABAPPLE	MALUS ADIRONDACK	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	-	3	-	-	-	-	-	-	3		
MRB	RED BARRON CRABAPPLE	MALUS RED BARON	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	2	2	2	-	-	-	-	1	7		
MSF	SARGENT CRABAPPLE	MALUS SARGENTII FIREBIRD	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	-	-	-	-	-	-	-	6	6		
SR	JAPANESE TREE LILAC IVORY SILK	SYRINGA RETICULATA IVORY SILK	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	-	-	-	-	-	-	3	-	3		
TC	CORINTHIAN LINDEN	TILIA CORDATA CORZAM	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	-	-	5	-	-	-	-	-	5		
Total															36		

PLANT LIST - NON-PARTICIPATING TREES ON PRIVATE PROPERTY						SHOWN ON SHEET NUMBER										Total
KEY	COMMON NAME	BOTANICAL NAME	SIZE & CONTAINER	SPACING / COMMENTS	CONTAINER	15	16	17	18	19	20	21	22	23		
AFC	CELEBRATION MAPLE	ACER FREEMANI CELEBRATION	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	3	-	-	-	-	-	-	6	9	
AMS	STATE STREET MAPLE	ACER MIYABEI 'STATE STREET'	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	2	-	-	-	2	-	-	-	-	4	
BNH	HERITAGE RIVER BIRCH	BETULA NIGRA HERITAGE	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	-	1	-	-	-	-	-	-	1	
MA	ADIRONDACK CRABAPPLE	MALUS ADIRONDACK	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	1	7	-	-	-	-	-	-	-	8	
MPF	PRAIRIE FIRE CRABAPPLE	MALUS PRAIRIE FIRE	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	2	-	-	2	-	-	-	-	4	
MRB	RED BARRON CRABAPPLE	MALUS RED BARON	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	-	-	-	-	-	-	1	-	1	
MSF	SARGENT CRABAPPLE	MALUS SARGENTII FIREBIRD	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	-	-	-	-	-	-	-	3	3	
QR	NORTHERN RED OAK	QUERCUS RUBRA	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	-	-	-	-	11	-	-	-	11	
SR	JAPANESE TREE LILAC IVORY SILK	SYRINGA RETICULATA IVORY SILK	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	3	-	-	-	-	-	-	-	3	
UAP	PRINCETON AMERICAN ELM	ULMUS AMERICANA PRINCETON	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	-	-	-	-	-	9	-	-	9	
Total															53	

PLANT LIST - TREES TO BE PLANTED ON PRIVATE PROPERTY THROUGH TOWN/DRB PERMITTING						SHOWN ON SHEET NUMBER												
KEY	COMMON NAME	BOTANICAL NAME	SIZE & CONTAINER	SPACING / COMMENTS	CONTAINER	15	16	17	18	19	20	21	22	23	Total			
AFC	CELEBRATION MAPLE	ACER FREEMANI CELEBRATION	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	-	-	2	-	-	-	-	-	2			
AMS	STATE STREET MAPLE	ACER MIYABEI 'STATE STREET'	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	-	-	2	-	-	-	-	-	2			
BNH	HERITAGE RIVER BIRCH	BETULA NIGRA HERITAGE	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	-	-	2	-	-	-	-	-	2			
UMG	TRIUMPH ELM	ULMUS JAPONICA MORTON GLOSSY	2" - 2 1/2" CALIPER	AS SHOWN ON PLANS	B & B	-	-	6	4	-	-	-	-	-	10			
Total															22			

1. EXACT PLACEMENT OF ALL PLANTINGS TO BE ADJUSTED AT TIME OF PLANTING WITH APPROVAL OF THE RESIDENT ENGINEER.
2. FOLLOW VTRANS SPECIFICATIONS SECTION 656 - PLANTING TREES SHRUBS AND VINES AND SECTION 755 - LANDSCAPE MATERIALS.
3. WATER ALL PLANT MATERIALS THOROUGHLY AT TIME OF PLANTING AND DURING WARRANTY PERIOD AS SPECIFIED IN SECTION 656.
4. MULCH ALL PLANTNGS AS SHOWN ON VTRANS LANDSCAPE DETAILS WITH CONTINUOUS LAYER OF APPROVED MULCH.
5. NO SUBSTITUTIONS ARE TO BE MADE WITHOUT THE APPROVAL OF THE RESIDENT ENGINEER AND CONSULTING ARBORIST.
6. FOLLOW VTRANS TREE PROTECTION SPECIFICATIONS 656.85.
7. ALL TREES SHALL BE PLANTED IN ACCORDANCE WITH VTRANS STANDARD E-1.

PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT

PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
DETAILS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
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SHEET 33



GENERAL CONSTRUCTION NOTES

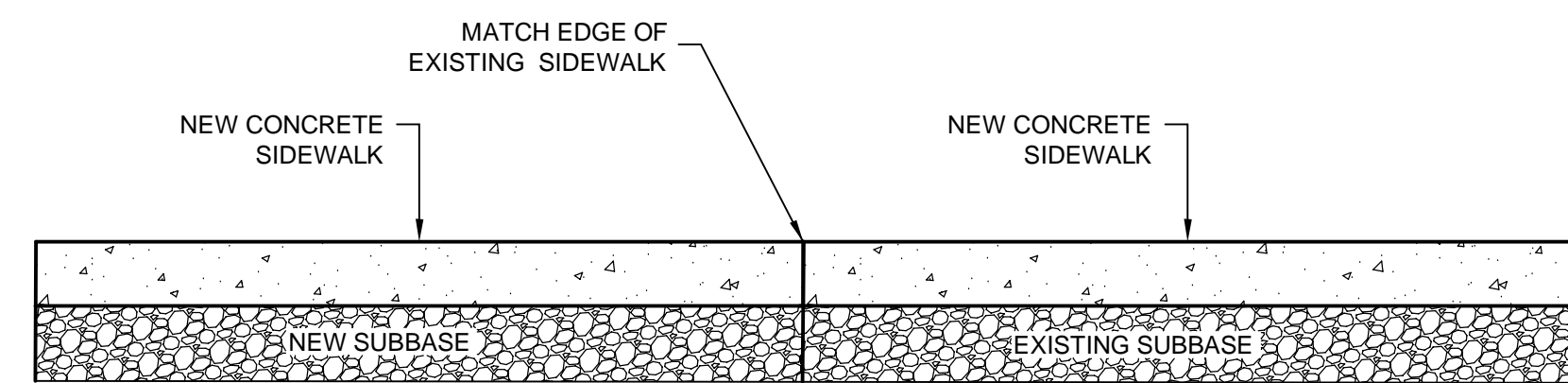
- 1.1 ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2018 AND ITS LATEST REVISIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION), AND THESE PLANS.
- 1.2 THE CONTRACTOR SHALL CONTACT ALL UTILITIES BEFORE EXCAVATION TO VERIFY THE LOCATION OF ANY UNDERGROUND LINES. THE CONTRACTOR SHALL NOTIFY "DIG SAFE", VTRANS, CHAMPLAIN WATER DISTRICT AND THE TOWN OF MILTON PUBLIC WORKS DEPARTMENT PRIOR TO ANY EXCAVATION.
- 1.3 UTILITIES INFORMATION SHOWN HEREON WERE OBTAINED FROM BEST AVAILABLE SOURCES AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, SHOWN OR NOT SHOWN HEREON. THE CONTRACTOR SHALL CONNECT OR RECONNECT ALL UTILITIES TO THE NEAREST SOURCE THROUGH COORDINATION WITH UTILITY OWNER.
- 1.4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE DUST CREATED AS A RESULT OF CONSTRUCTION DOES NOT CREATE A NUISANCE OR A SAFETY HAZARD. THE CONTRACTOR SHALL SWEEP THE PAVED STREET AND DRIVES WITH A POWER BROOM (TYPE 1) AS REQUIRED, OR AS DIRECTED BY THE RESIDENT ENGINEER.
- 1.5 THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER 24 HOURS IN ADVANCE OF STARTING ANY WORK, CUTTING PAVEMENT, BEGINNING THE INSTALLATION OF ANY UTILITIES, BRINGING IN ANY NEW GRAVEL OR STONE FOR THE NEW BASE, PAVING, ALL TESTING, AND FINAL INSPECTION, IN ORDER TO ENSURE COMPLIANCE WITH THE PLANS.
- 1.6 ALL MATERIALS SHALL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO INSTALLATION.
- 1.7 LAMOUREUX & DICKINSON WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT MAY ARISE FROM THE FAILURE OF THE CONTRACTOR TO FOLLOW THESE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THAT THE PLANS CONVEY.

CONCRETE SIDEWALK NOTES

- 2.1 ALL SIDEWALKS, CURBS AND APRONS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE MILTON PUBLIC WORK SPECIFICATIONS, VTRANS STANDARD SPECIFICATION OF CONSTRUCTION 618.03 AND THE STANDARD DETAILS.
- 2.2 ALL SIDEWALKS SHALL BE DESIGNED TO BE HANDICAPPED ACCESSIBLE WITH AMERICAN WITH DISABILITIES ACT (ADA) AND STATE STANDARDS.
- 2.3 SIDEWALKS AND CURBS SHALL BE MADE OF CONCRETE. APRONS SHALL BE MADE OF EITHER CONCRETE OR BITUMINOUS CONCRETE.
- 2.4 CONCRETE FOR NEW CEMENT CONCRETE SIDEWALKS SHALL BE 4,000 PSI CLASS A CONCRETE CONFORMING TO STANDARD SPEC. 541.
- 2.5 NEW CONCRETE SIDEWALKS SHALL BE TREATED WITH A SILANE WATER REPELLENT SEALER APPLIED PER THE MANUFACTURER'S RECOMMENDATIONS BETWEEN 14-40 DAYS OF ORIGINAL CONCRETE PLACEMENT (ITEM 514.10).
- 2.6 ALL DETECTABLE WARNING SURFACES SHALL BE CAST IRON.

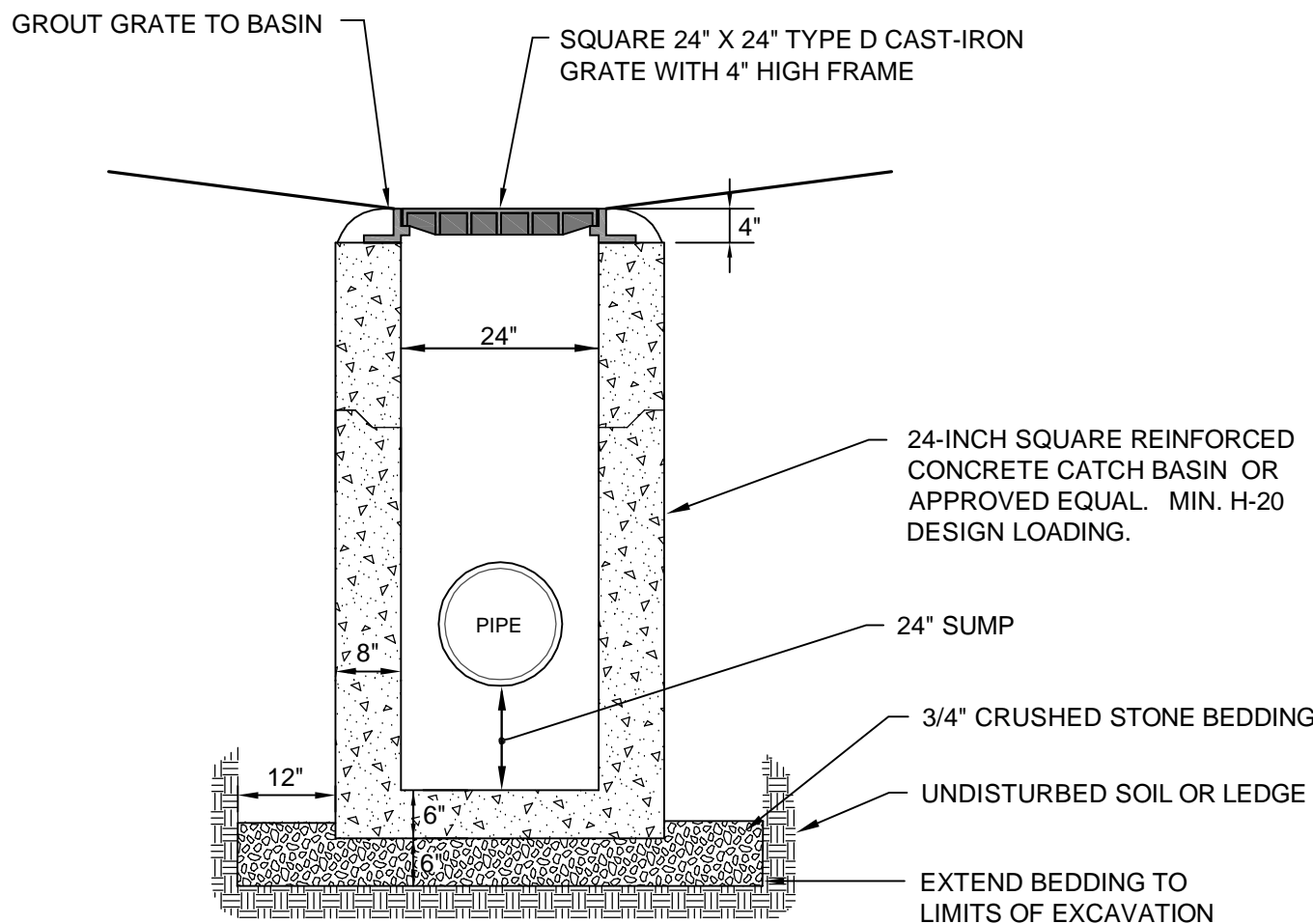
BITUMINOUS CONCRETE PAVEMENT NOTES

- 3.1 THE CONTRACTOR SHALL APPLY EMULSION TO THE FULL WIDTH OF THE BASE COURSE BEFORE INSTALLING THE WEARING COURSE. EMULSION SHALL ALSO BE PLACED ON THE FACE OF THE CURB, THE EDGES OF EXISTING PAVEMENT AND THE EDGES OF NEW SIDEWALKS WHERE THEY WILL BE IN CONTACT WITH THE PAVEMENT. EMULSIFIED ASPHALT TO BE APPLIED AT THE RATE OF 0.015 GAL/SY.
- 3.2 EMULSION SHALL BE PLACED BETWEEN THE BASE AND WEAR COURSES OF PAVEMENT.



CONNECTIONS BETWEEN NEW AND EXISTING SIDEWALKS SHALL BE ACCOMPLISHED UTILIZING 18" X 5/8" SMOOTH STEEL (GRADE 60) DOWELS PLACED 12" ON CENTER (4 DOWELS FOR A 5 FT WIDE SIDEWALK) CENTERED AT SIDEWALK JOINTS. DOWELS SHALL BE INSTALLED TO ALLOW LONGITUDINAL EXPANSION AND CONTRACTION AT THE JOINT.

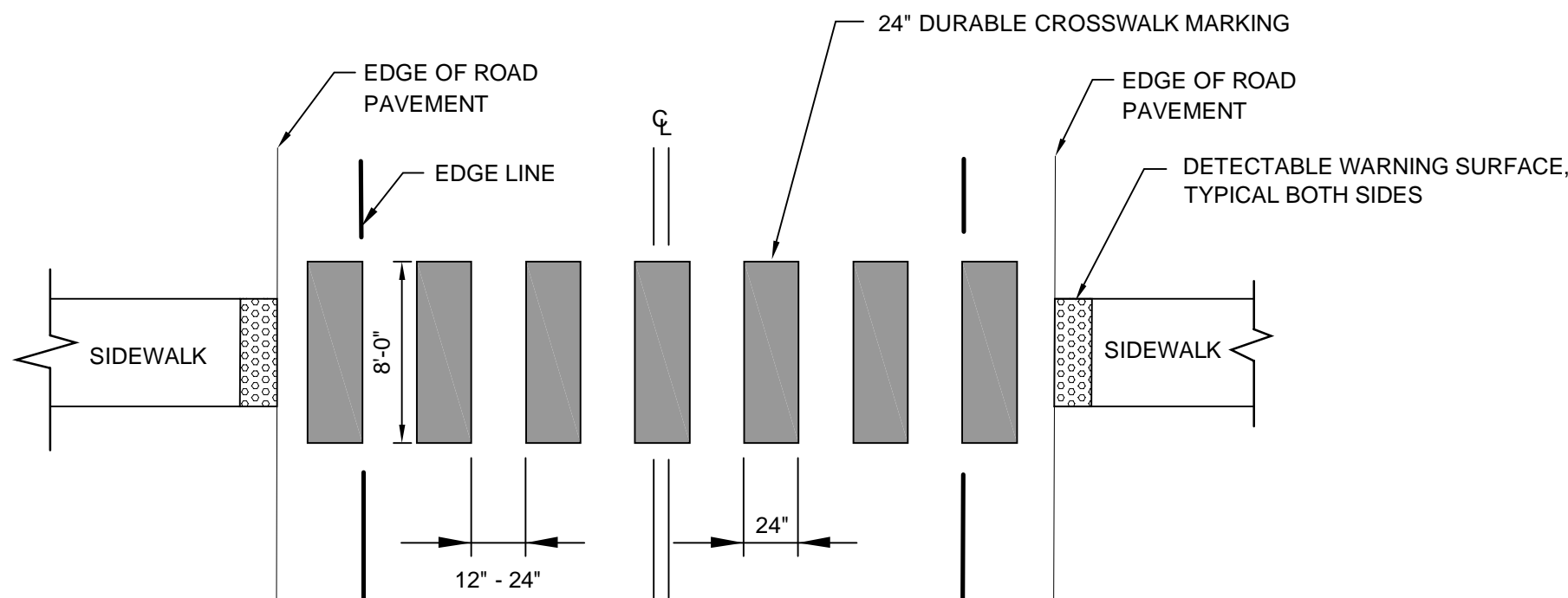
TYPICAL CONCRETE SIDEWALK CONNECTION  
NTS



NOTES:

1. THOROUGHLY COMPACT ALL BACKFILL IN 6" LIFTS.
2. PROVIDE WATERTIGHT RUBBER BOOT FOR ALL PIPE PENETRATIONS 6" OR LARGER IN DIAMETER.

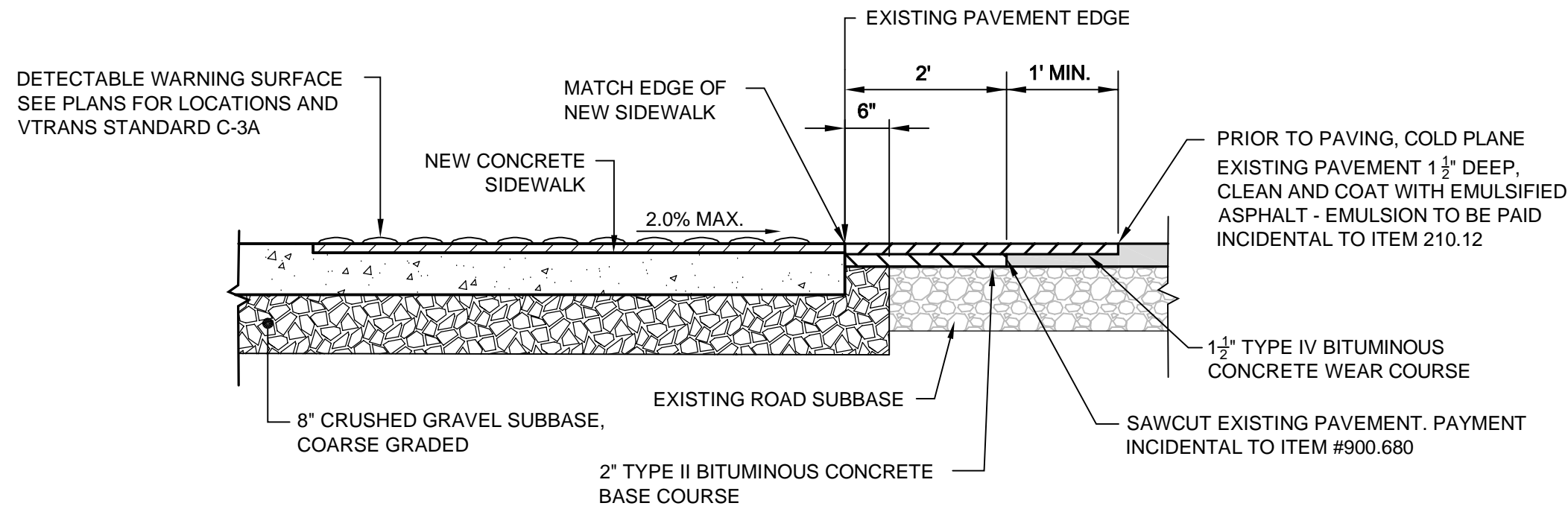
24" SQUARE PRECAST REINFORCED CONCRETE CATCH BASIN  
NTS



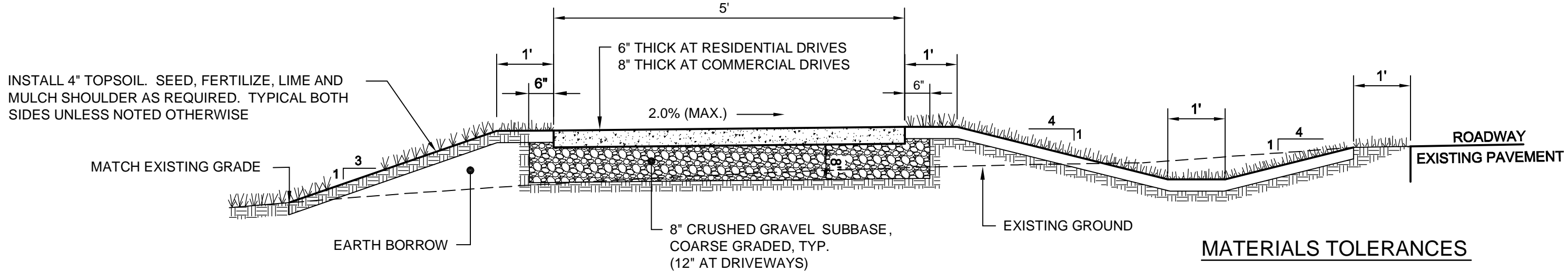
NOTE:

THE SPACING FOR THE LINES SHALL BE SELECTED TO AVOID THE WHEEL PATHS.

DURABLE BLOCK PATTERN CROSSWALK DETAIL  
NTS



TYPICAL 6" THICK CONCRETE SIDEWALK ENDING AT ROAD  
NTS



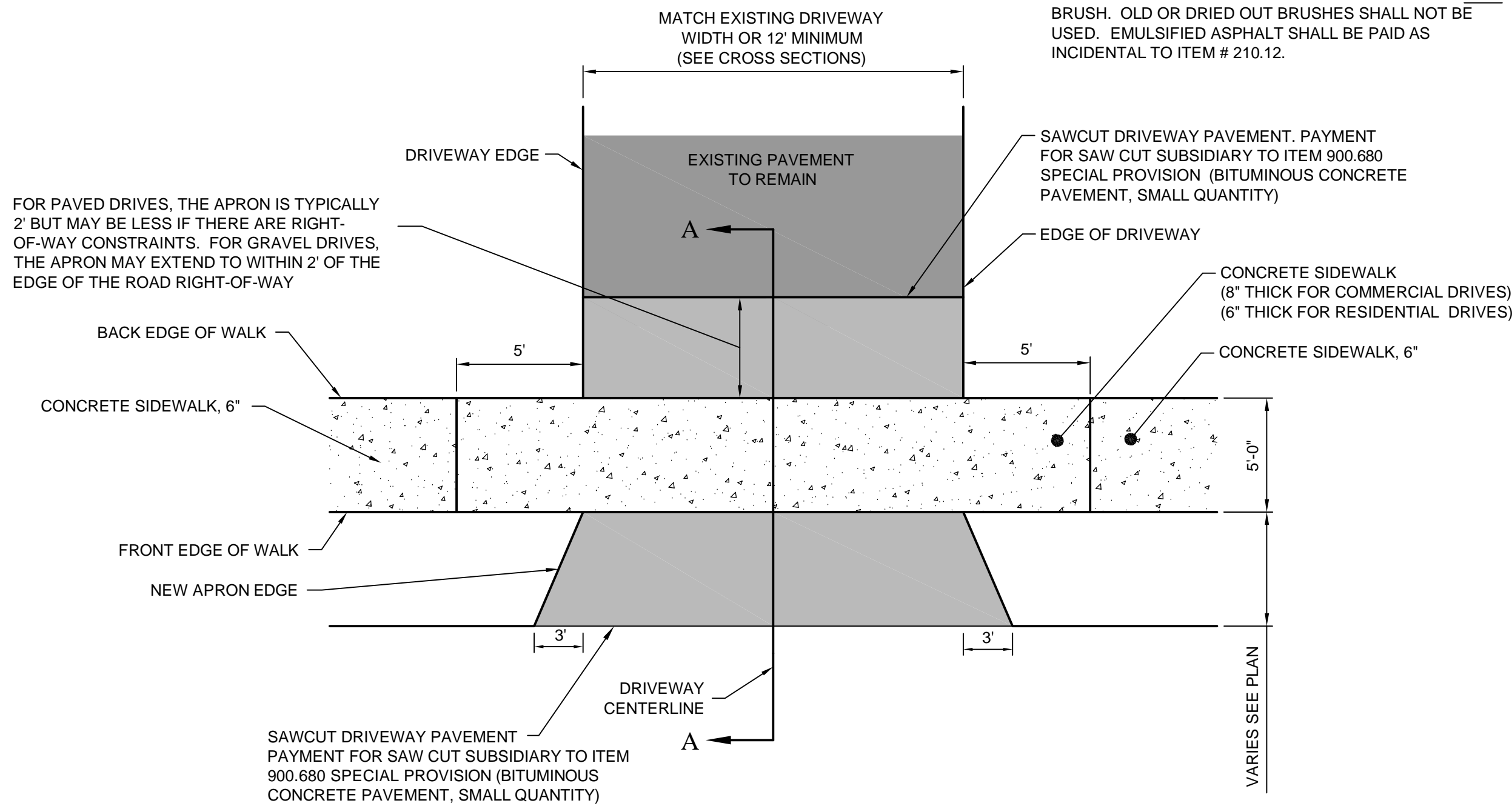
TYPICAL CONCRETE SIDEWALK  
NTS

MATERIALS TOLERANCES

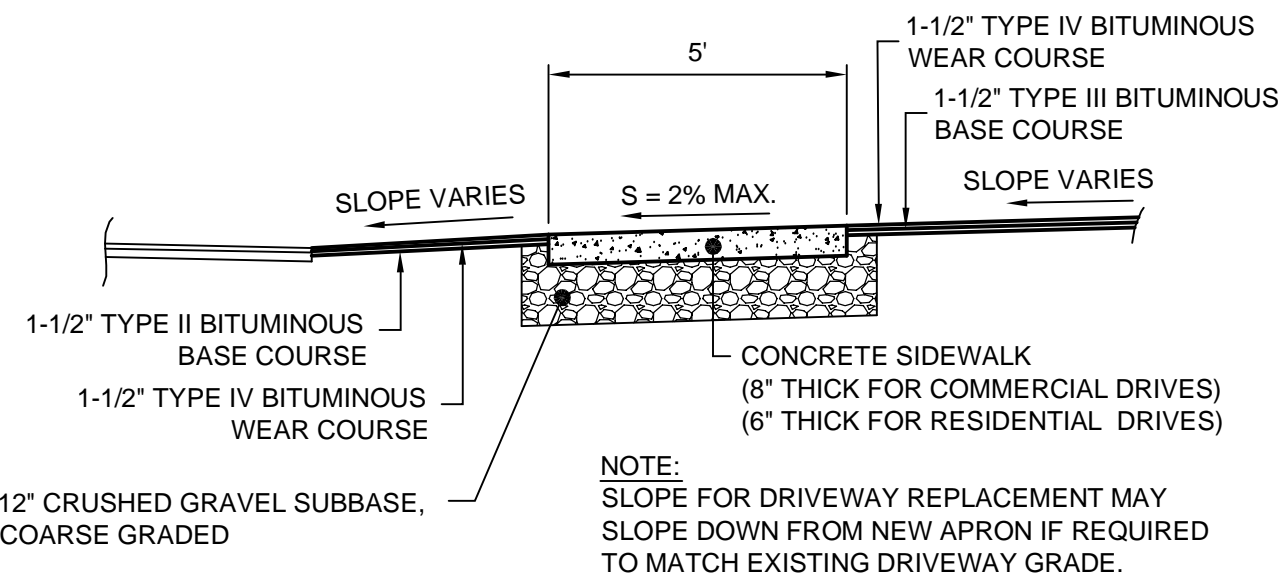
PAVEMENT +/- 1/4" TOTAL DEPTH  
AGGREGATE SURFACES +/- 1/2" TOTAL DEPTH  
SUBBASE +/- 1" TOTAL DEPTH  
SAND BORROW +/- 1" TOTAL DEPTH

NOTES:

1. SUBBASE MATERIALS SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY USING THE MODIFIED PROCTOR TEST, ACCORDING TO VTRANS SPEC. 301.06.
2. EMULSIFIED ASPHALT SHALL BE APPLIED TO THE EXISTING PAVEMENT EDGE. EMULSIFIED ASPHALT SHALL BE APPLIED UNDER PRESSURE OR WITH A "NEW" BRUSH. OLD OR DRIED OUT BRUSHES SHALL NOT BE USED. EMULSIFIED ASPHALT SHALL BE PAID AS INCIDENTAL TO ITEM # 210.12.



TYPICAL DRIVEWAY WITH SIDEWALK DETAIL  
NTS



SECTION A-A  
NTS

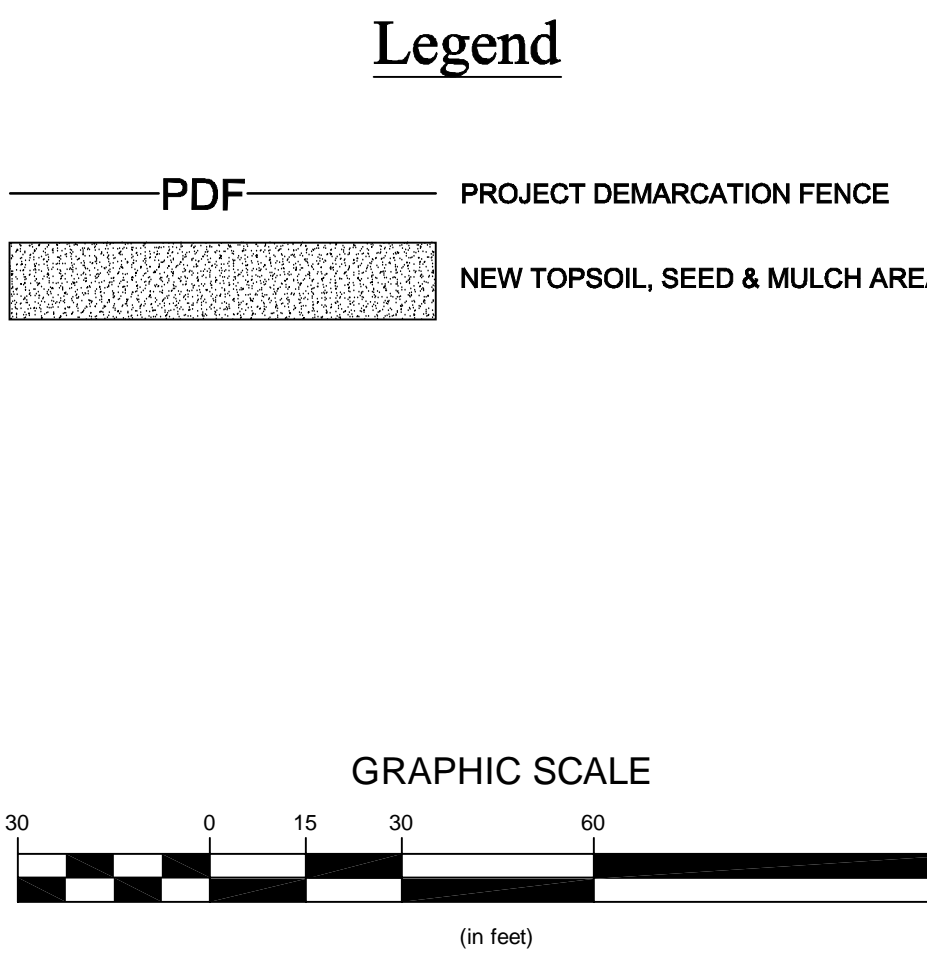
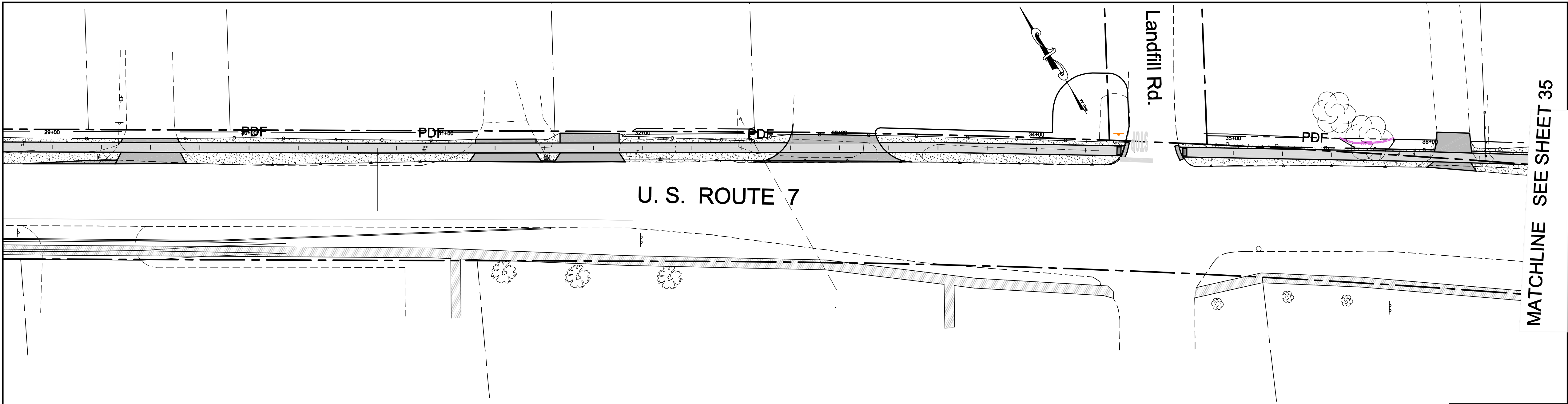
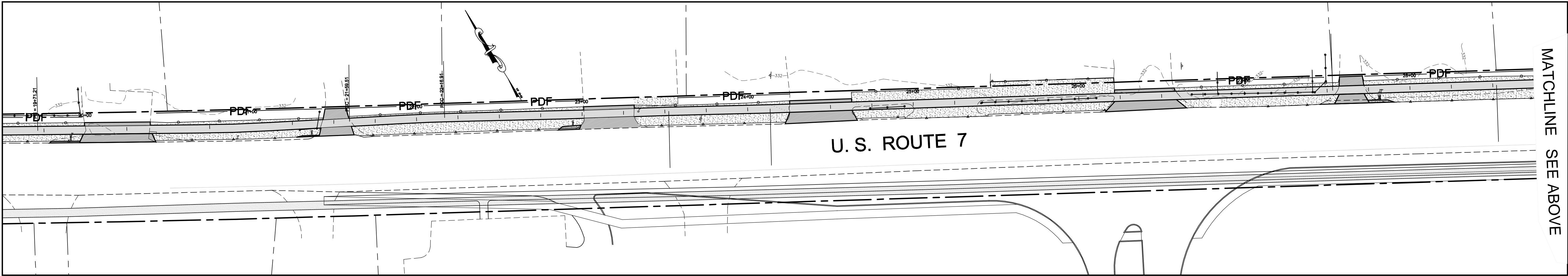
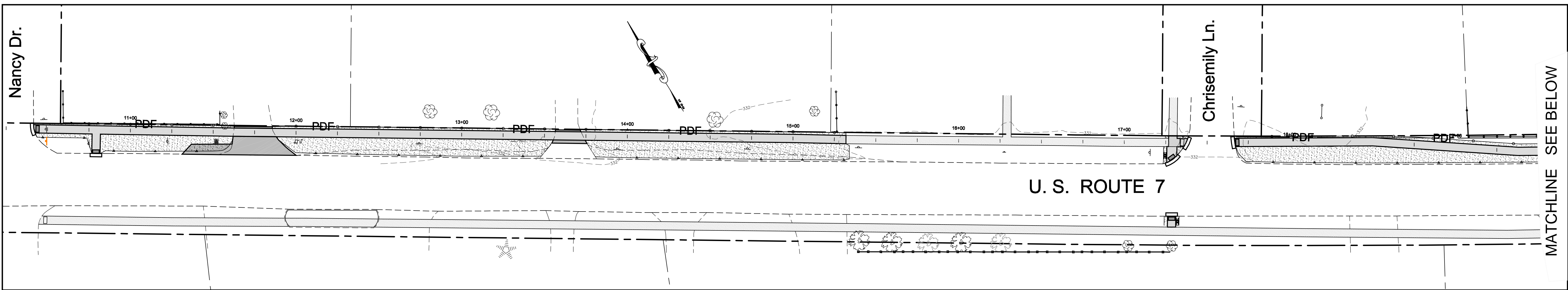
PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
DETAILS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 34

**L**amoureux & Dickinson  
Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
802-878-4450 www.LDengineering.com





ITEM 653.55 PROJECT DEMARCATION FENCE

STA 10+58 - STA 11+62 - 102 LF

STA 11+88 - STA 13+56 - 168 LF

STA 13+73 - STA 15+31 - 157 LF

STA 17+68 - STA 19+99 - 231 LF

STA 20+42 - STA 21+43 - 101 LF

STA 21+58 - STA 23+00 - 142 LF

STA 23+59 - STA 24+25 - 66 LF

STA 26+59 - STA 27+48 - 89 LF

ITEM 653.55 PROJECT DEMARCATION FENCE (CONT.)

STA 27+74 - STA 28+88 - 114 LF

STA 29+12 - STA 29+35 - 23 LF

STA 29+65 - STA 31+15 - 150 LF

STA 31+91 - STA 32+74 - 83 LF

STA 34+85 - STA 36+00 - 115 LF

**L** Lamoureux & Dickinson  
Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
802-878-4450 www.LDengineering.com

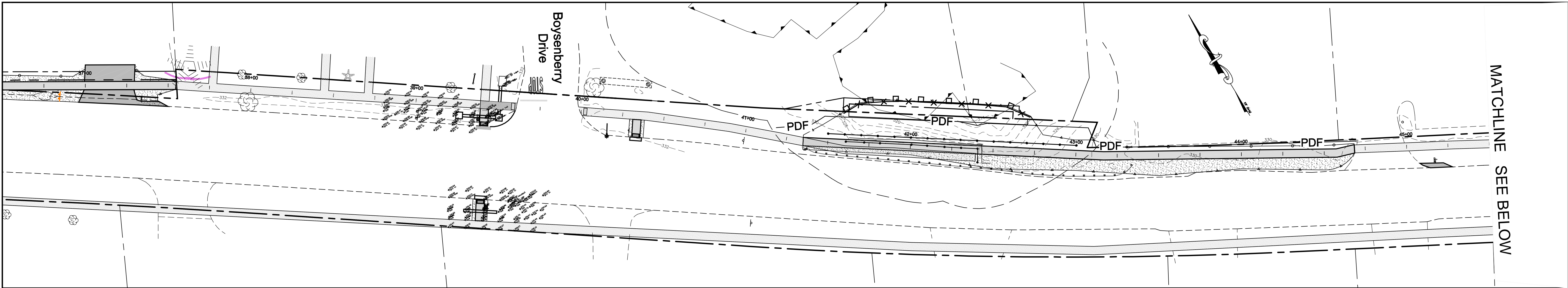
PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
EROSION PROTECTION AND SEDIMENT CONTROL

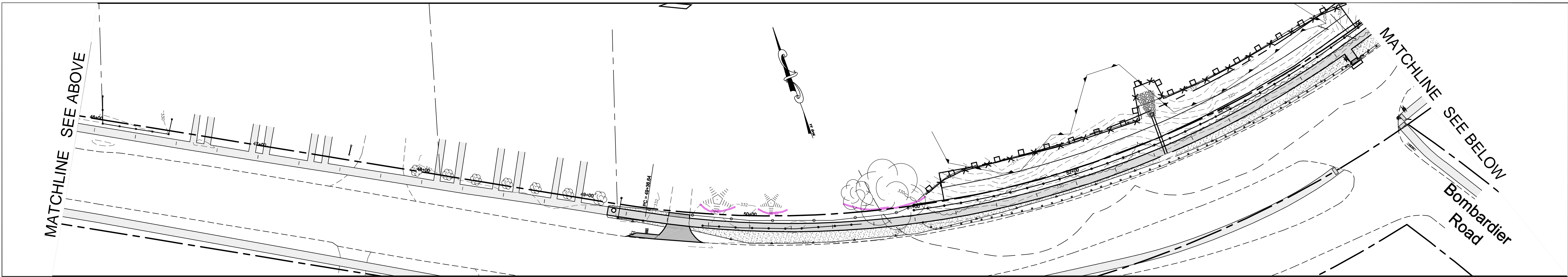
PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 35



MATCHLINE SEE SHEET 34

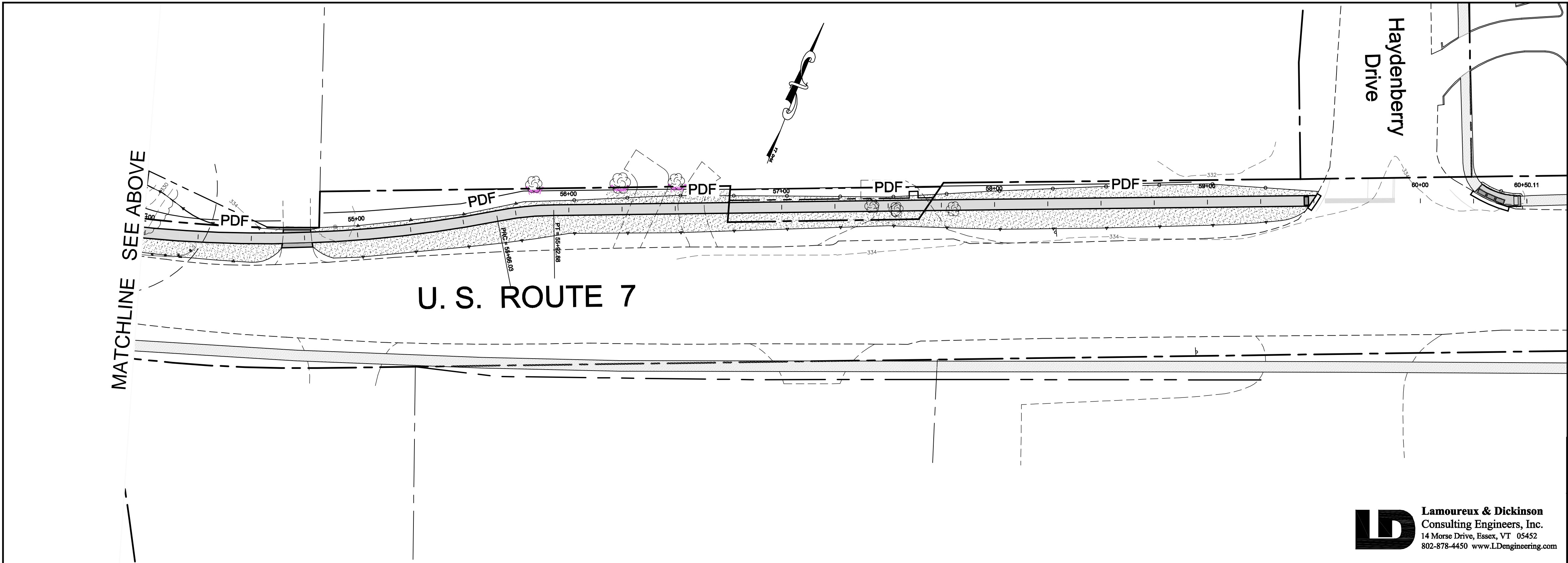


MATCHLINE SEE BELOW



MATCHLINE SEE ABOVE

MATCHLINE SEE BELOW  
Bombardier Road



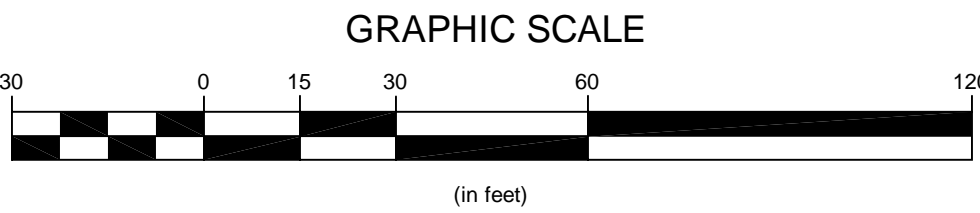
MATCHLINE SEE ABOVE

U. S. ROUTE 7

Boysenberry Drive

### Legend

- PDF PROJECT DEMARCATION FENCE
- TEMPORARY SILT FENCE WITH WOVEN WIRE
- NEW TOPSOIL, SEED & MULCH AREA
- NEW TYPE I INLET PROTECTION



- ITEM 653.476 SILT FENCE, TYPE II  
STA 41+50 - STA 43+10  
STA 51+10 - STA 54+00
- ITEM 653.440 INLET PROTECTION, TYPE I  
STA 52+50
- ITEM 653.55 PROJECT DEMARCATION FENCE  
STA 41+15 - STA 44+70 - 360 LF  
STA 49+15 - STA 49+50 - 35 LF  
STA 49+64 - STA 54+65 - 525 LF  
STA 54+85 - STA 58+95 - 410 LF

PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
EROSION PROTECTION AND SEDIMENT CONTROL

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 36

**L** Lamoureux & Dickinson  
Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
802-878-4450 www.LDEngineering.com



EPSC PLAN NARRATIVE

- 1.1PROJECT DESCRIPTION - THIS PROJECT INCLUDES NEW CONCRETE SIDEWALK, RETAINING WALLS, SIGNS AND OTHER SIDEWALK RELATED ITEMS. THE AREA OF DISTURBANCE INCLUDES LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA. THE TOTAL AREA OF DISTURBANCE AS SHOWN ON THE ATTACHED EPSC PLAN IS APPROXIMATELY 1.32 ACRES. IT IS ANTICIPATED THAT THIS PROJECT WILL LAST TWO CONSTRUCTION SEASONS.
- 1.2SITE INVENTORY

1.2.1 TOPOGRAPHY - THE TOPOGRAPHY OF THE AREA ALONG U.S. ROUTE 7 IN THE TOWN OF MILTON SLOPES UP AND DOWN AT 0% TO 1% FROM EAST TO WEST. THE SIDEWALK AND PATH WILL INVOLVE MINOR GRADE CHANGES.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES - THERE ARE NO WATER SOURCES NEAR THE PROJECT SITE THAT WILL BE IMPACTED BY THIS PROJECT.

1.2.3 VEGETATION - THE VEGETATION IN THE PROJECT AREA MOSTLY CONSISTS OF MOWED LAWNS. THE IMPACT TO VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY INSTALLATION OF THE NEW SIDEWALK AND PATH. DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES.

1.2.4 SOILS - ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF CHITTENDEN, VERMONT. SOILS ON THE PROJECT SITE ARE ADAM & WINDSOR LOAMY SANDS SOILS, 0% TO 5% SLOPES, ("K" FACTOR OF 0.17). THE SOILS ARE CONSIDERED TO HAVE A LOW 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 - HIGHER = HIGH EROSION POTENTIAL

1.2.5 SENSITIVE RESOURCE AREAS -  
CRITICAL HABITATS: NO  
HISTORICAL OR ARCHEOLOGICAL AREAS: NO ARCHEOLOGICAL OR HISTORIC RESOURCES  
PRIME AGRICULTURAL LAND: THE SOILS ARE CONSIDERED STATEWIDE IMPORTANCE  
THREATENED AND ENDANGERED SPECIES: NO  
WATER RESOURCES/WETLANDS: YES
- 1.3RISK 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.
- 1.4EROSION 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 APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

1.4.1 MARK SITE BOUNDARIES - SITE BOUNDARIES AND AREAS WHERE CONSTRUCTION EQUIPMENT CAN ACCESS THE PROJECT SHALL HAVE PROJECT DEMARCATION FENCING (PDF).

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 MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLAN AND ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES.

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. SILT FENCE WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN.

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. THE PROJECT AREA IS RELATIVELY FLAT. THEREFORE IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY.

1.4.6 SLOW DOWN CHANNELIZED RUNOFF - CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSION POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS. THE PROJECT AREA IS RELATIVELY FLAT, THEREFORE CHANNELIZED STRUCTURES WILL NOT BE NEEDED.

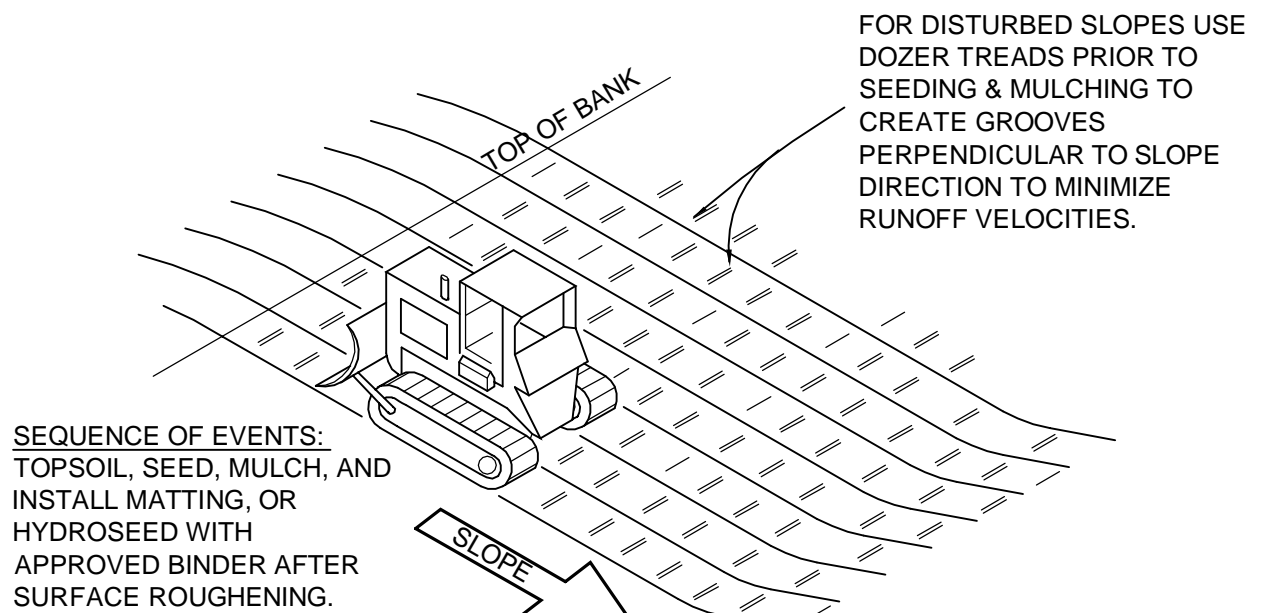
1.4.7 CONSTRUCT PERMANENT CONTROLS - PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

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. BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH ON SLOPES STEEPER THAN 1:3.
- 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.
- 1.4.12 INSPECT YOUR SITE - INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS.
- 1.5SEQUENCE 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 - TBD.

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



SLOPE GRADING  
NTS

TURF ESTABLISHMENT

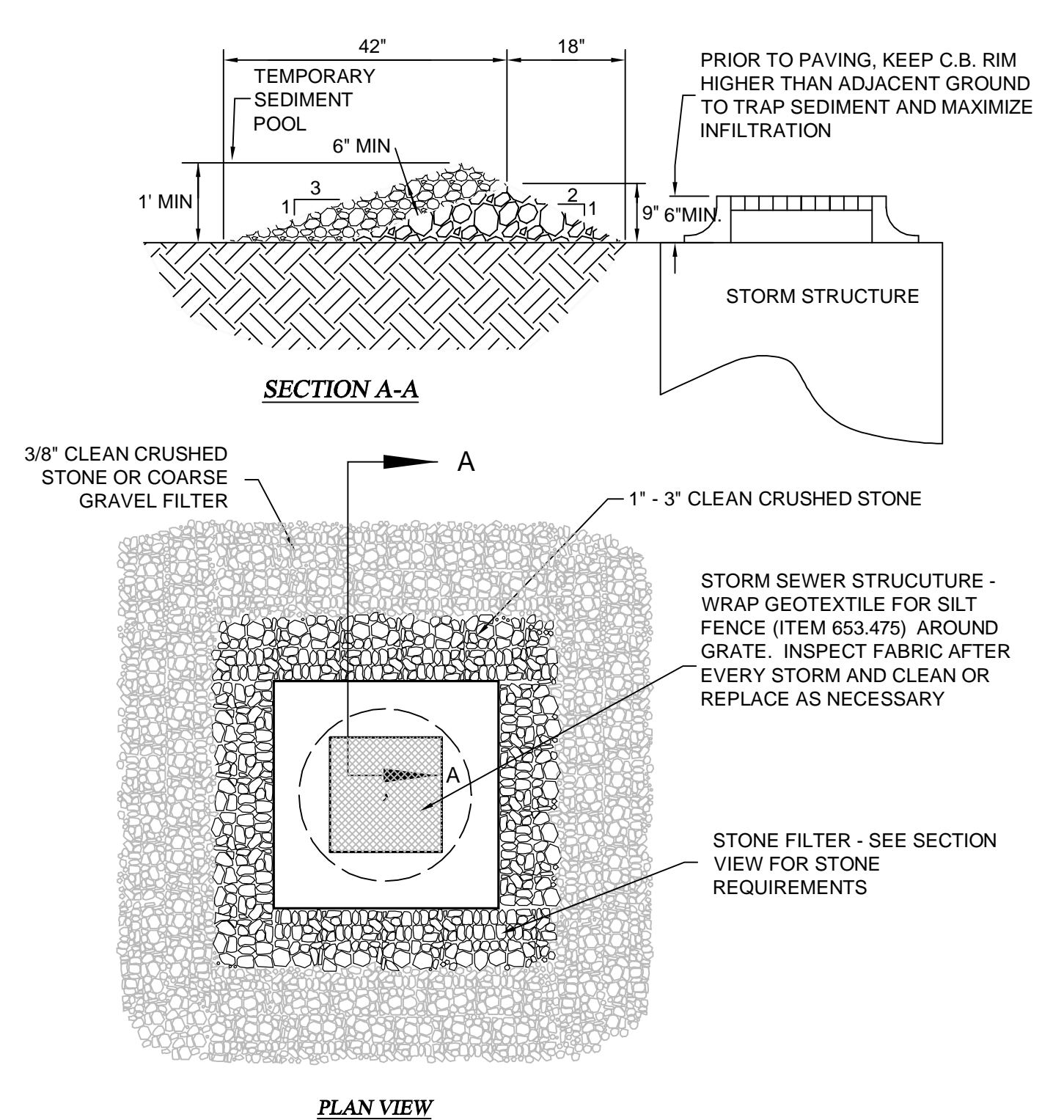
VAOT URBAN AREA MIX					
		LBS/AC			
% WEIGHT	BROADCAST	HYDROSEED		GERM %	PURITY %
42.5%	34	68	CREeping RED FESCUE ( <i>Festuca rubra</i> )	85%	98%
10.0%	8	16	PERENNIAL RYE GRASS ( <i>Lolium perenne</i> L.)	90%	95%
42.5%	34	68	KENTUCKY BLUE GRASS ( <i>Poa patensis</i> )	85%	85%
5.0%	4	8	ANNUAL RYE GRASS ( <i>Lolium multiflorum</i> )	85%	95%
100%	60	160			

VAOT RURAL AREA MIX					
		LBS/AC			
% WEIGHT	BROADCAST	HYDROSEED		GERM %	PURITY %
37.5%	22.5	45	CREeping RED FESCUE ( <i>Fescue rubra</i> var. <i>rubra</i> )	85%	98%
37.5%	22.5	45	TALL FESCUE ( <i>Fescuta arundinacea</i> )	90%	95%
5%	3	6	RED TOP ( <i>Agrostis alba</i> )	90%	95%
15%	9	18	BIRDSFOOT TREFOIL ( <i>Lotus corniculatus</i> )	85%	98%
5.0%	3	6	ANNUAL RYE GRASS ( <i>Lolium multiflorum</i> )	85%	95%
100%	80	120			

SOIL AMENDMENT GUIDANCE			
FERTILIZER		LIME	
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED
10-20-10	FOLLOW	PELLETIZED	FOLLOW
500 LBS/AC	MANUFACTURER	500 LBS/AC	MANUFACTURER

CONSTRUCTION GUIDANCE

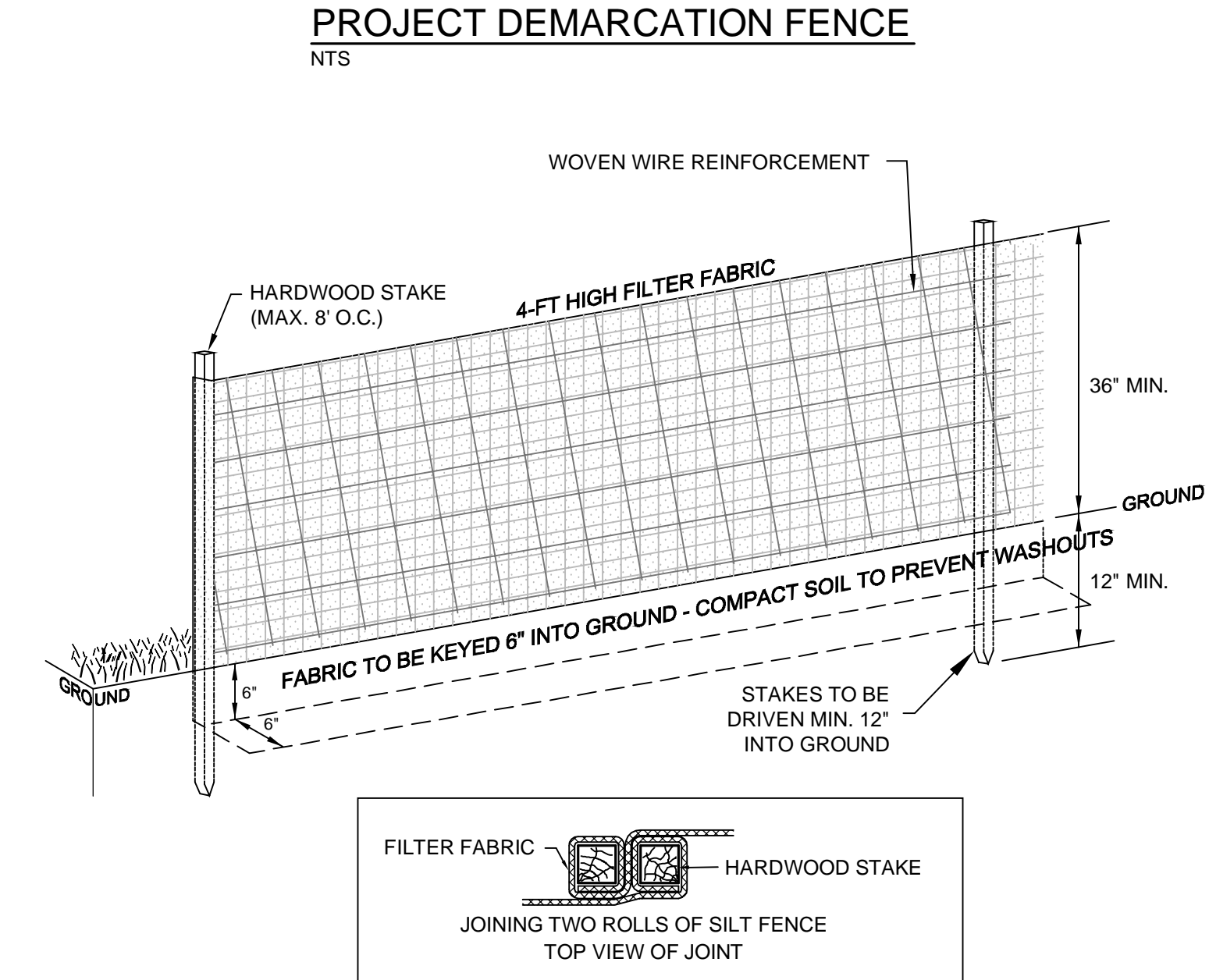
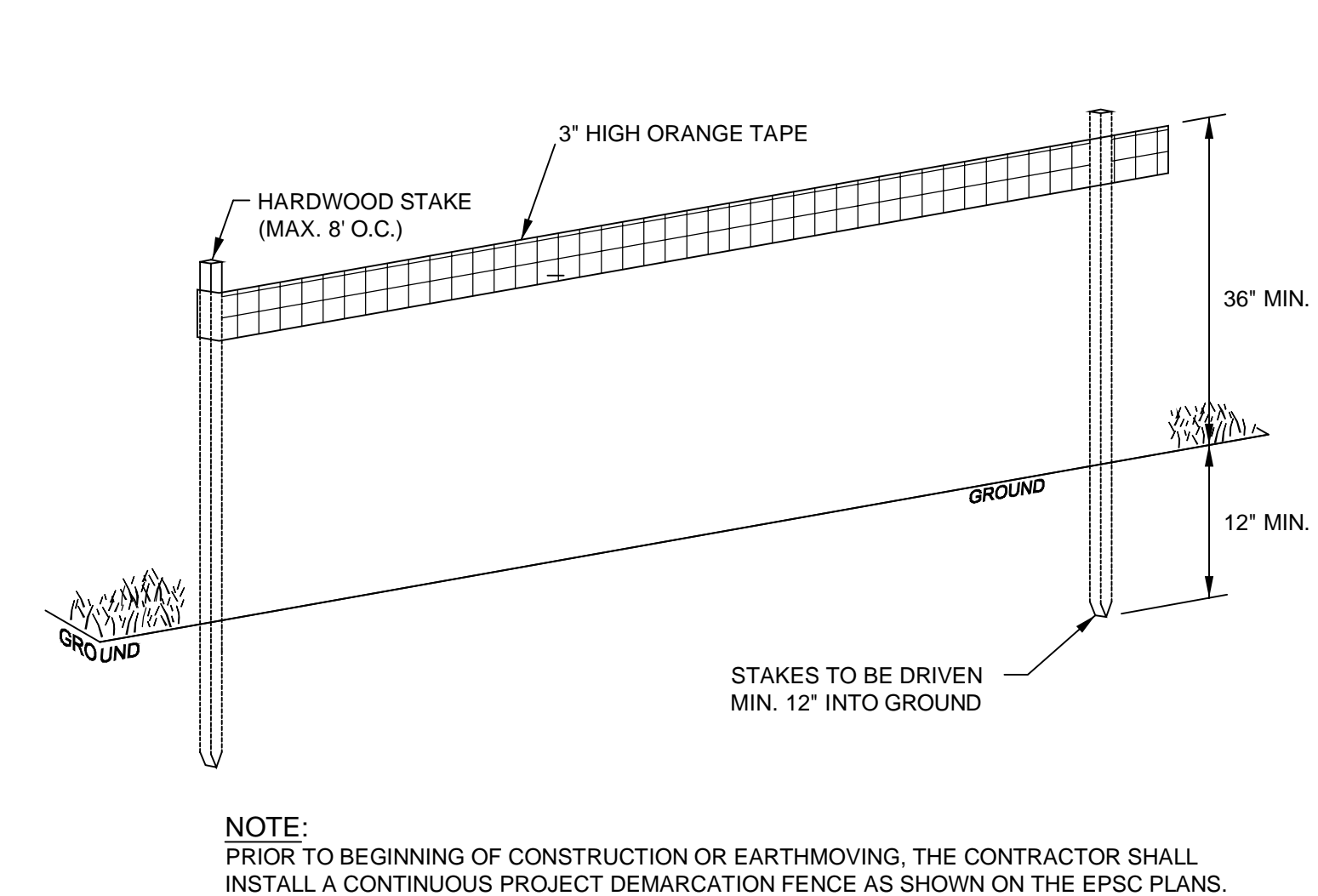
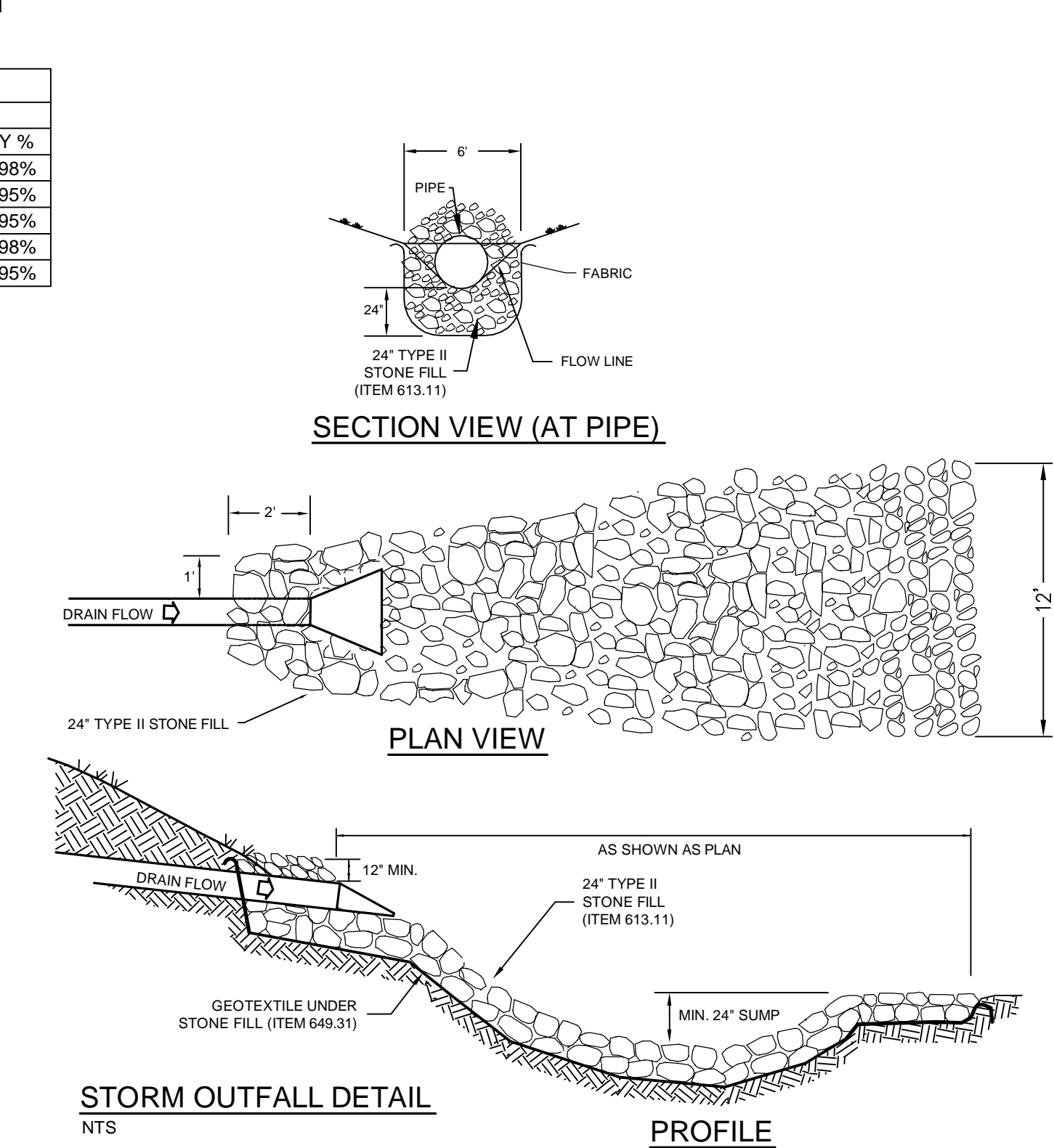
1. RURAL SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED AREAS DISTURBED BY THE CONTRACTOR.
2. URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES SHALL HAVE A WEED CONTENT LESS THAN 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE SHALL ONLY BE APPLIED AFTER A SOIL TEST HAS BEEN COMPLETED, AND DEMONSTRATED THE NEED FOR THEM. PAYMENT FOR BOTH SHALL BE INCIDENTAL TO ITEM # 651.35.
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.



- NOTES:
1. INLET PROTECTION TO BE PROVIDED AT ALL CATCHBASINS OR YARD INLETS.
2. THE STONE FILTER SHALL BE INSPECTED FOLLOWING EACH STORM. ACCUMULATED SEDIMENTS SHALL BE REMOVED AND THE STONE REPLACED AS NECESSARY.
3. THE LIMITS OF THE STONE AROUND THE INLET MAY BE MODIFIED BY THE ENGINEER DEPENDING ON THE TOPOGRAPHY DIRECTING RUNOFF TO THE CATCH BASIN.

INLET PROTECTION (TYPE I)

NTS  
(ITEM 653.40)



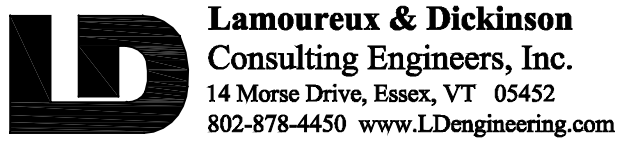
- NOTES
- 1) SILT FENCE INSTALLED WITHIN 100 FEET OF A WETLAND, STREAM, OR RECEIVING WATER SHALL BE REINFORCED WITH WOVEN WIRE FENCE (MIN. 14 GAUGE WIRE WITH 6\" MAX. MESH SPACINGS).
- 2) USE ONLY MANUAL METHODS OF INSTALLATION AND CLEANING WITHIN WETLAND AND BUFFER ZONE.
- 3) PRIOR TO BEGINNING OF CONSTRUCTION OR EARTHMOVING, THE CONTRACTOR SHALL INSTALL A SILT FENCE AT THE LOCATIONS SHOWN ON THE SITE PLAN OR AS DIRECTED BY THE ENGINEER.
- 4) FROZEN MATERIAL SHALL NOT BE USED TO KEY IN THE BOTTOM OF THE SILT FENCE. IF NECESSARY, GRANULAR BORROW SHALL BE USED BY THE CONTRACTOR TO KEY IN THE SILT FENCE RATHER THAN FROZEN NATIVE MATERIAL. PAYMENT FOR GRANULAR BORROW TO BE INCIDENTAL TO GEOTEXTILE FOR SILT FENCE ITEM.
- 5) THE CONTRACTOR SHALL INSTALL SILT FENCE AROUND THE PERIMETER OF TOPSOIL STOCKPILES AND AT OTHER LOCATIONS AS NEEDED.

TEMPORARY SILT FENCE WITH WOVEN WIRE REINFORCEMENT

NTS  
(ITEM 653.476)

PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT	
PROJECT NUMBER: MILTON STP BP16(10)	
L&D PROJECT #: 17052	PLOT DATE: JUNE 25, 2019
PROJECT LEADER: DH	DRAWN BY: WH
DESIGNED BY: DH	CHECKED BY: RD
EPSC TYPICAL DETAILS AND SPECIFICATIONS	SHEET 37





PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
TRAFFIC CONTROL (LONG TERM)

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 38

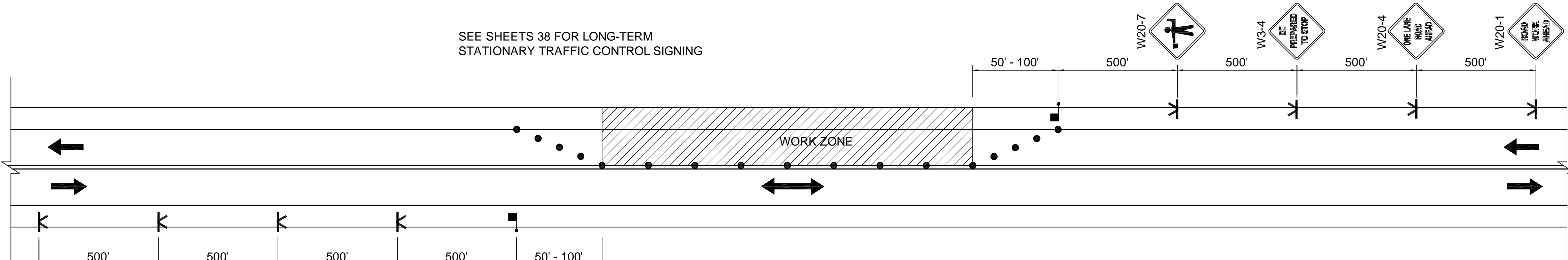


TEMPORARY TRAFFIC CONTROL NOTES

- SEE CONTRACT PLANS AND TRAFFIC CONTROL PLAN SHEETS FOR CONSTRUCTION APPROACH SIGNING. THE MAINLINE SHORT TERM 'ROAD WORK AHEAD' SIGN SHOWN ON THIS SHEET MAY BE ELIMINATED ON THE APPROACH WHEN THE ACTIVE WORK ZONE IS LOCATED WITHIN 1 MILE OF THE LONG-TERM 'ROAD WORK AHEAD' SIGN.
- ALL SHORT-TERM TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE COVERED OR REMOVED AT THE END OF EACH WORK DAY.
- SHORT-TERM TRAFFIC CONTROL SIGNS SHALL BE RE-POSITIONED AS THE ACTIVE WORK ZONE AND FLAGGER LOCATIONS ADVANCE DURING EACH WORK DAY.
- THE SIDE ROAD LONG-TERM TEMPORARY TRAFFIC CONTROL SIGNS SHOWN ON STD. DETAIL T-10 SHALL BE COVERED AND SHORT-TERM TEMPORARY TRAFFIC CONTROL SIGNS USED AS SHOWN ON THIS SHEET WHEN THE ACTIVE WORK ZONE PASSES THROUGH A SIDE ROAD INTERSECTION.
- NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.
- TWO FLAGGERS ARE STANDARD; BUT ADDITIONAL FLAGGERS SHALL BE UTILIZED WHEN SIGNIFICANT PRIVATE DRIVES AND/OR BUSINESSES ARE LOCATED WITHIN THE WORK ZONE. FLAGGER PROCEDURES SHALL CONFORM TO THE MUTCD.
- UNIFORMED TRAFFIC OFFICERS (UTO) SHALL BE UTILIZED TO DIRECT TRAFFIC AT INTERSECTIONS AND AT OTHER LOCATIONS AS NEEDED . SIDE ROAD FLAGGER SHALL HOLD TRAFFIC FROM SIDE STREET WHEN PLANING OR PAVING THROUGH THE INTERSECTION. USE CHANNELIZING DEVICES TO DIRECT TURNING VEHICLES TO DESIRED LANE(S).
- SHORT-TERM TEMPORARY TRAFFIC CONTROL SIGN SPACING MAY BE REDUCED TO 100-200 FT IN BUILT-UP AREAS WHERE THE POSTED SPEED LIMIT IS 30 MPH OR LESS.

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

- THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) FOR REVIEW AND WRITTEN APPROVAL BY THE RESIDENT ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), PART 6.
- PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES, COMMERCIAL PROPERTIES AND TRANSIT STOPS. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.
- IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE MUST BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE FIRM, STABLE AND SLIP-RESISTANT AND CONTINUOUS WITH A MINIMUM 80 INCHES OVERHEAD CLEARANCE FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
- WHEN TEMPORARY CROSSWALKS ARE UTILIZED FOR THE TPAR, TEMPORARY DETECTABLE WARNINGS SHALL BE PLACED AT EACH END OF THE TEMPORARY CROSSWALKS. THE TEMPORARY CROSSWALK SHALL BE DELINEATED WITH TEMPORARY PAVEMENT MARKINGS OR TAPE. THE MARKINGS SHALL BE PARALLEL 12-INCH-WIDE WHITE LINES PLACE 7 FEET ON CENTER APART. IT SHOULD BE NOTED THAT CURB PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF MIDBLOCK CROSSWALKS. TEMPORARY CROSSWALK SIGNS SHALL BE PROVIDED FOR THE CROSSWALK.
- IF THERE IS WORK OCCURRING OVER AN OPEN SIDEWALK, PROTECTIVE OVERHEAD COVERING MUST BE PROVIDED AS NECESSARY TO ENSURE PROTECTION FROM FALLING OBJECTS AND DRIPPING FROM OVERHEAD STRUCTURES. COVERED WALKWAYS SHOULD BE STURDILY CONSTRUCTED AND ADEQUATELY LIGHTED FOR NIGHTTIME USE.
- INDIVIDUAL CHANNELIZING DEVICES, TAPE, OR ROPE USED TO CONNECT INDIVIDUAL DEVICES AND OTHER DISCONTINUOUS BARRIERS AND DEVICES, PAVEMENT MARKINGS ARE NOT DETECTABLE BY PERSONS WITH VISUAL DISABILITIES. THESE MEASURES DO NOT PROVIDE ACCEPTABLE PATH GUIDANCE ON TEMPORARY OR RE-ALIGNED SIDEWALKS OR OTHER PEDESTRIAN FACILITIES. PEDESTRIAN CHANNELIZING DEVICES SHALL INCLUDE A CONTINUOUSLY DETECTABLE BOTTOM AND TOP EDGE THROUGHOUT THE LENGTH OF THE FACILITY SUCH THAT IT CAN BE FOLLOWED BY PEDESTRIANS USING LONG CANES FOR GUIDANCE.
- CHANNELIZING DEVICES ON BOTH SIDES OF THE TPAR SHALL INCLUDE A CONTINUOUS SOLID TOP AND BOTTOM RAILS. THE TOP EDGE OF THE TOP RAIL SHALL BE BETWEEN 32 INCHES AND 38 INCHES ABOVE THE GROUND LEVEL. THE BOTTOM RAIL SHALL BE AT LEAST 6 INCHES WIDE, WITH THE BOTTOM EDGE OF THE BOTTOM RAIL SURFACE NO HIGHER THAN 2 INCHES ABOVE THE GROUND.
- IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASHWORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.
- THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
- PROVISION OF THE TPAR AND ALL ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO SIGNS, CHANNELIZING DEVICES, BARRICADES, TEMPORARY CURB RAMPS, TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES IS TO BE PAID FOR INCIDENTAL TO TRAFFIC CONTROL (ITEM 641.10.)

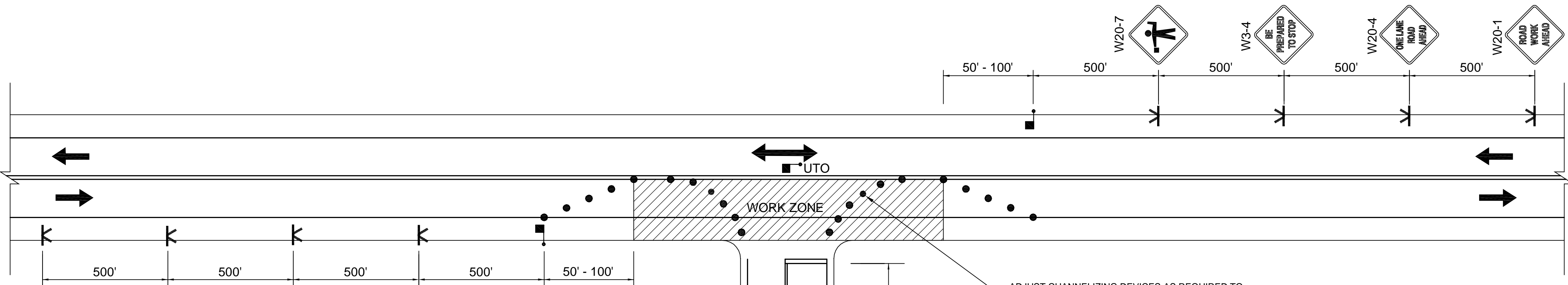


Lane Closure on Two-Lane Road Using Flaggers

NTS

LEGEND

- FLAGGER
- CHANNELIZING DEVICE
- SHORT-TERM TEMPORARY TRAFFIC CONTROL SIGN



ADJUST CHANNELIZING DEVICES AS REQUIRED TO ACCOMMODATE VEHICLES, INCLUDING TRUCKS & BUSES, AS WORK PROGRESSES THROUGH THE INTERSECTION.

MUTCD TYPICAL APPLICATIONS TA-6, TA-10 & TA-13 SHALL BE USED WHEN NECESSITATED BY THE CONTRACTOR'S WORK OPERATIONS



SHORT-TERM STATIONARY DAY SIGNS

FLAGGERS

SEE ALSO SECTION 630 OF THE VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION FOR ADDITIONAL FLAGGER REQUIREMENTS.

A FLAGGER STATION SHALL BE LOCATED SUCH THAT APPROACHING ROAD USERS WILL HAVE SUFFICIENT DISTANCE TO STOP AT AN INTENDED STOPPING POINT. THE DISTANCES FOR THE STOPPING SIGHT DISTANCE IS A FUNCTION OF THE SPEED OF THE HIGHWAY. PLEASE REFER TO TABLE 6E-1 STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED IN THE 2009 MUTCD. THIS DISTANCE MAY INCREASE FOR UPGRADES AND OTHER CONDITIONS THAT AFFECT SIGHT DISTANCE.

IT IS RECOMMENDED IF THE FLAGGER IS NOT AT IT'S STATION FOR MORE THAN 15 MINUTES THAT THE SIGNS BE TURNED FROM APPROACHING TRAFFIC SO AS NOT TO SEND A FALSE MESSAGE TO THE MOTORIST TRAVELING THROUGH THE WORK ZONE. OTHERWISE THE FLAGGER SIGNS LOSE THEIR EFFECTIVENESS WHEN THE FLAGGING OPERATION IS ACTIVE.

Lane Closure on Two-Lane Road with Side Road Using Flaggers

NTS



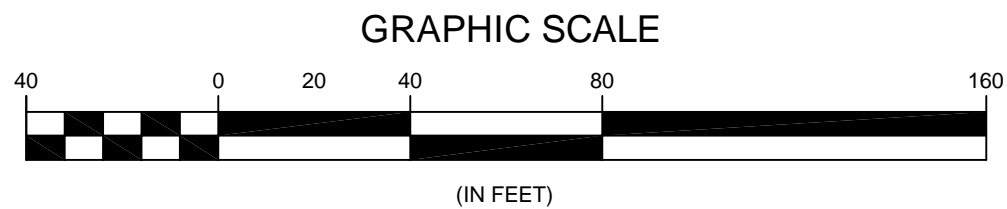
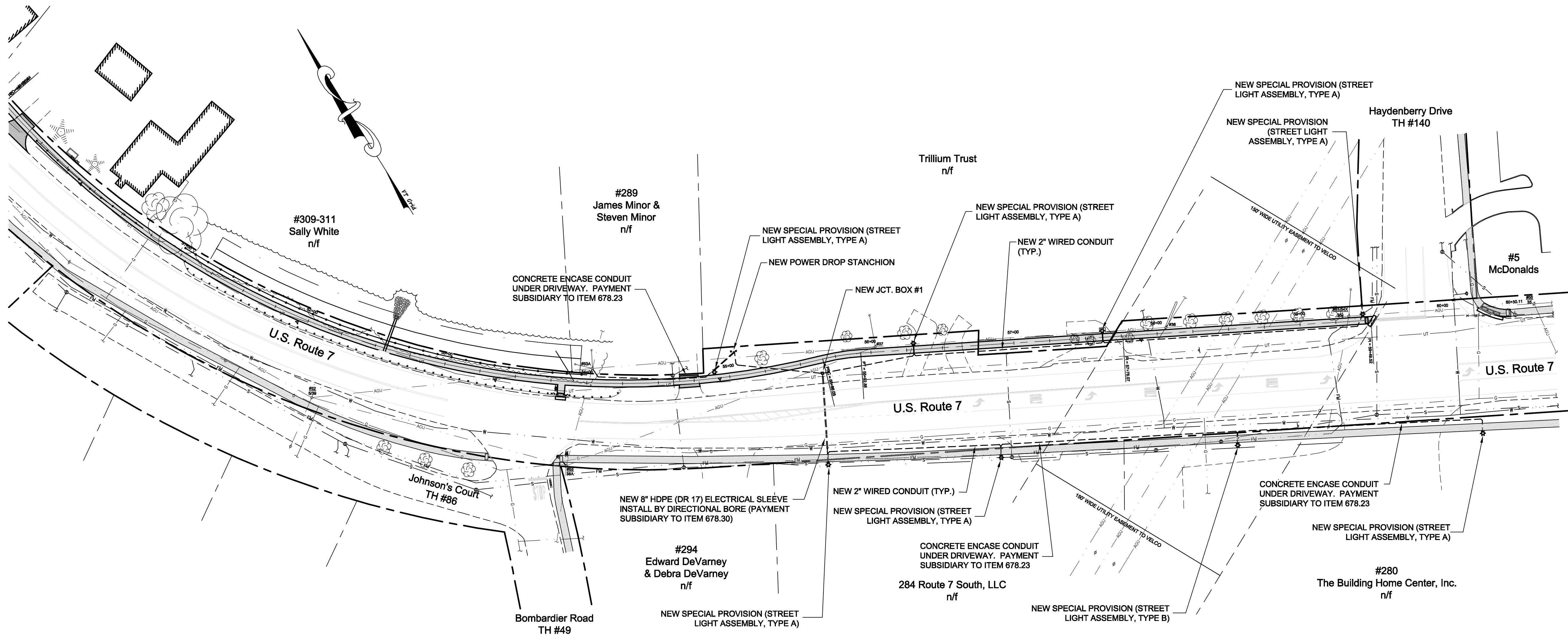
Lamoureux & Dickinson  
Consulting Engineers, Inc.  
14 Morse Drive, Essex, VT 05452  
802-878-4450 www.LDengineering.com

PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
TRAFFIC CONTROL (SHORT TERM)

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 39





NOTES

- STREET LIGHT POLES, LUMINAIRES, FOUNDATIONS, RELATED MATERIALS AND WIRING TO BE PAID UNDER ITEMS 900.620 SPECIAL PROVISION (STREET LIGHT ASSEMBLY, TYPE A) AND 900.620A, SPECIAL PROVISION (STREET LIGHT ASSEMBLY, TYPE B).
- POWER DROP STANCHION TO BE PAID UNDER ITEM 679.55.

120/240 VOLT  
1 PHASE, 3 WIRE  
100 AMP

**POWER DROP STANCHION  
DISCONNECT/DISTRIBUTION PANEL**  
STATION 13+42 RT

DESCRIPTION	WIRE	BRKR	CKT	Ø	CKT
LUMINAIRES (240V) NORTH SIDE	(2)#10, (1)#10G	20A-2P	4	A	2
				B	3
LUMINAIRES (240V) SOUTH SIDE	(2)#10, (1)#10G	20A-2P	4	A	5
				B	6

NOTES

- PANEL TO BE NEMA 3R RATED (MIN.) & LOCKABLE.
- EACH CIRCUIT TO BE PROVIDED WITH A SWITCHING TYPE CIRCUIT BREAKER.
- ELECTRICAL SERVICE CONDUIT TO BE 2" Ø. LIGHTING AND RECEPTACLE CIRCUIT WIRING TO BE INSTALLED IN ONE 2" Ø WIRED CONDUIT TO EACH STREET LIGHT POLE.
- ASSUMED 250 WATT LOAD PER RECEPTACLE.
- USE #6 CONDUCTORS (MIN). IN WIRED CONDUIT. CONDUCTORS TO BE SIZED FOR MAX 3% VOLTAGE DROP.
- TRANSITION FROM #10 AWG TO #6 AWG IN A SEPARATE NEMA 3R LOCKABLE ENCLOSURE ALSO TO BE MOUNTED ON THE POWER DROP STANCHION. PAYMENT INCIDENTAL TO ITEM 679.55.
- THE STREET LIGHTING AND RECEPTACLE CIRCUITS ARE TO BE CONTROLLED BY A PHOTOCELL MOUNTED ON THE POWER DROP STANCHION. PAYMENT FOR PHOTOCELL AND WIRING INCIDENTAL TO ITEM 679.55.

**STREET LIGHTING POWER DROP STANCHION**  
NTS

ITEM 678.23 WIRED CONDUIT (2.5")  
STA 54+02 LT - STA 55+05 LT

ITEM 678.23 WIRED CONDUIT (2")  
STA 54+90 LT - STA 55+05 LT  
STA 55+05 LT - STA 55+63 RT  
STA 55+63 RT - STA 56+30 LT  
STA 56+30 LT - STA 57+62 LT  
STA 57+62 LT - STA 59+44 LT  
STA 55+63 RT - STA 55+54 RT  
STA 55+54 RT - STA 56+96 RT  
STA 55+96 RT - STA 58+51 RT  
STA 58+51 RT - STA 60+23 RT

ITEM 678.26 JUNCTION BOX  
STA 55+63 RT

ITEM 678.30 ELECTRICAL CONDUIT SLEEVE  
STA 55+55 RT - STA 55+63 RT

ITEM 679.55 POWER DROP STANCHION,  
STREET LIGHTING  
STA 55+05 LT

ITEM 900.620 SPECIAL PROVISION (STREET  
LIGHT ASSEMBLY, TYPE A)  
STA 54+90 LT  
STA 55+54 RT  
STA 56+30 LT  
STA 56+96 RT  
STA 57+62 LT  
STA 59+44 LT  
STA 60+23 RT

ITEM 900.620 SPECIAL PROVISION (STREET LIGHT  
ASSEMBLY, TYPE B)  
STA 58+51 RT

**LEGEND**

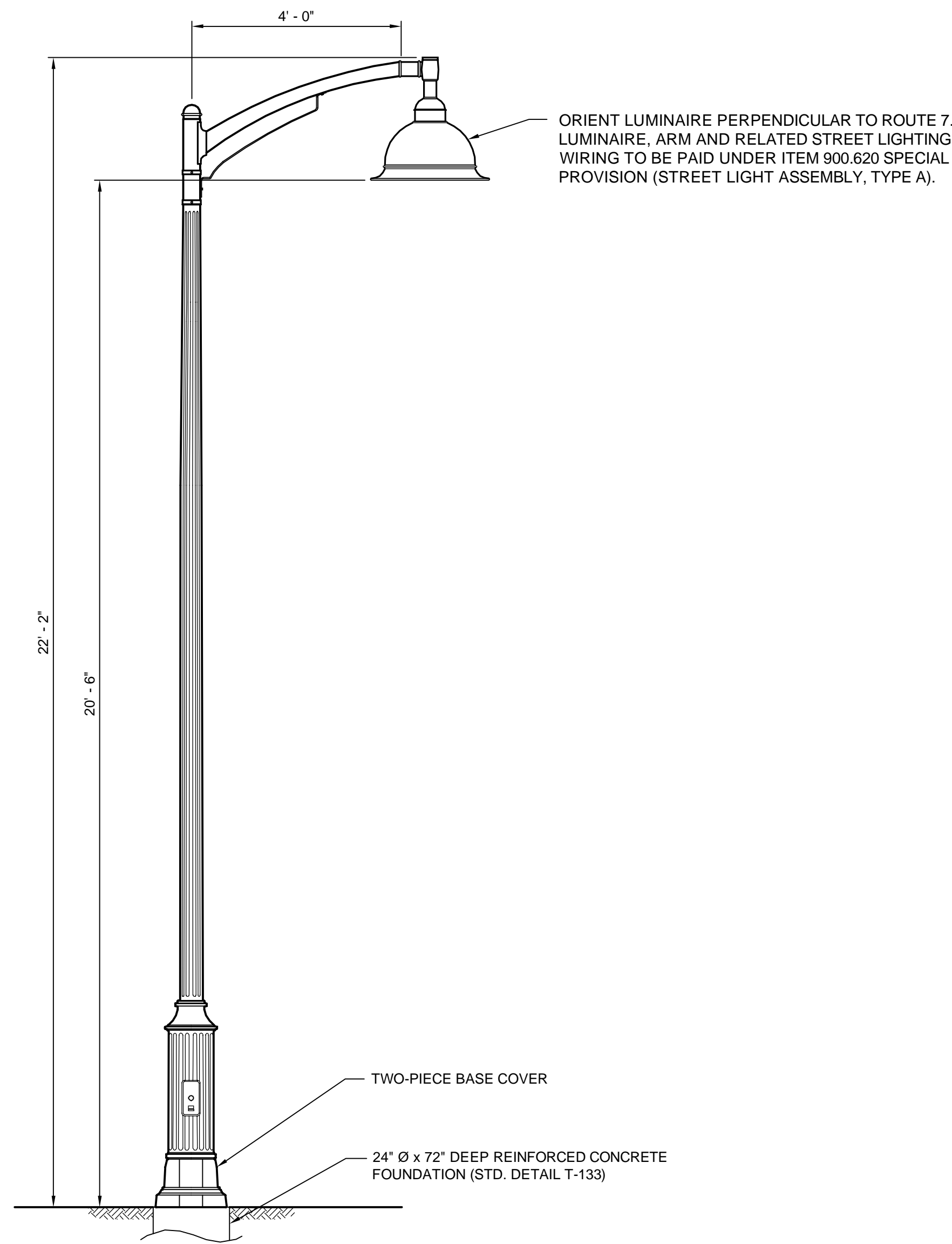
---	AGU	EXISTING ABOVE GROUND UTILITY WIRES
---	UT	EXISTING UNDERGROUND TELEPHONE CABLE
==		EXISTING CATCH BASIN & STORM PIPE
---	S	EXISTING SEWER MANHOLE & MAIN
---	G	EXISTING GAS LINE & VALVE
---	W	EXISTING WATER LINE, VALVE & HYDRANT
Ø		EXISTING UTILITY POLE
■		NEW JUNCTION BOX
☼		NEW STREET LIGHT
=====		NEW ELECTRICAL CONDUIT SLEEVE
-----		NEW WIRED CONDUIT

PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

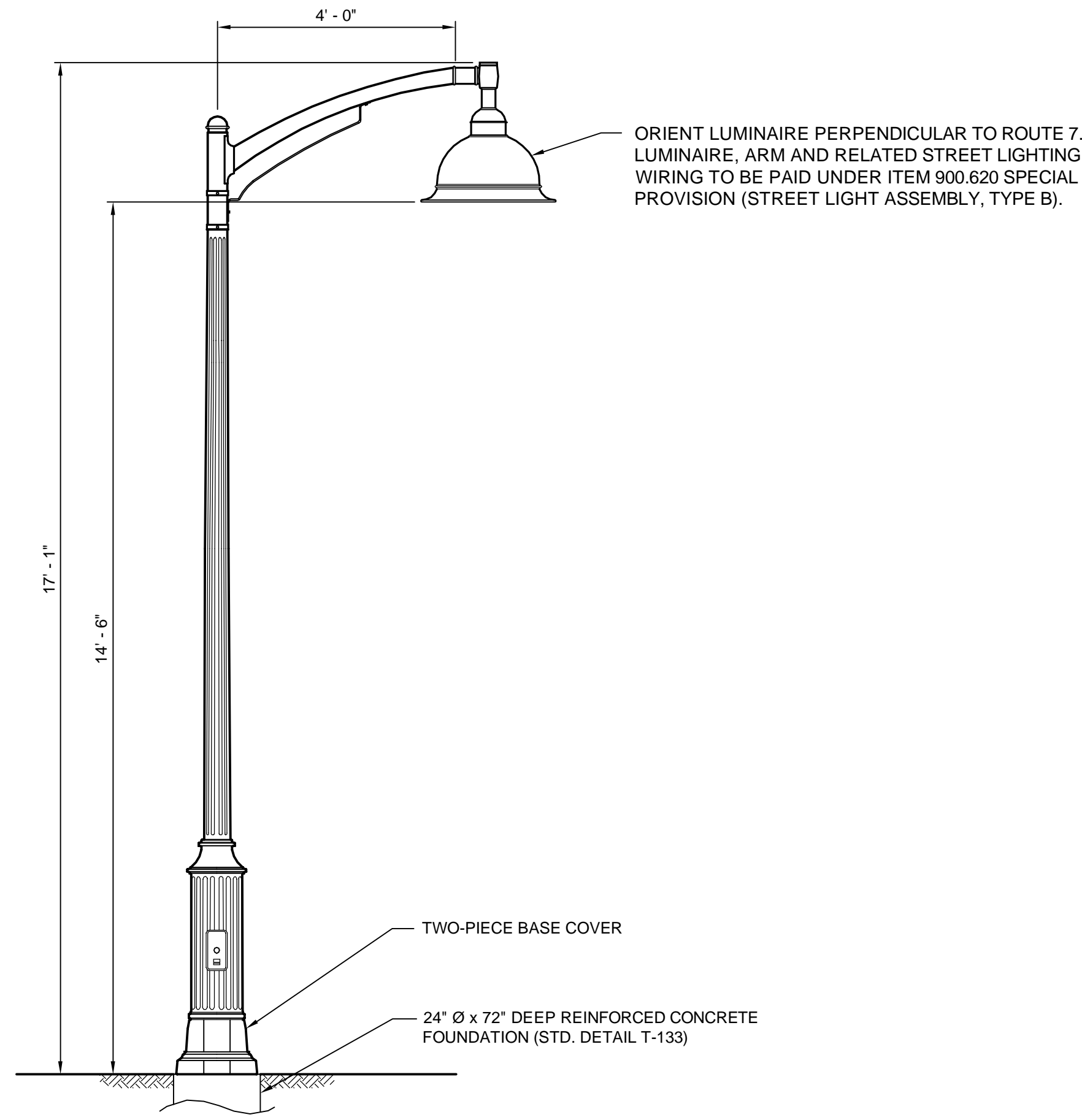
L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
STREET LIGHTING PLAN

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 40

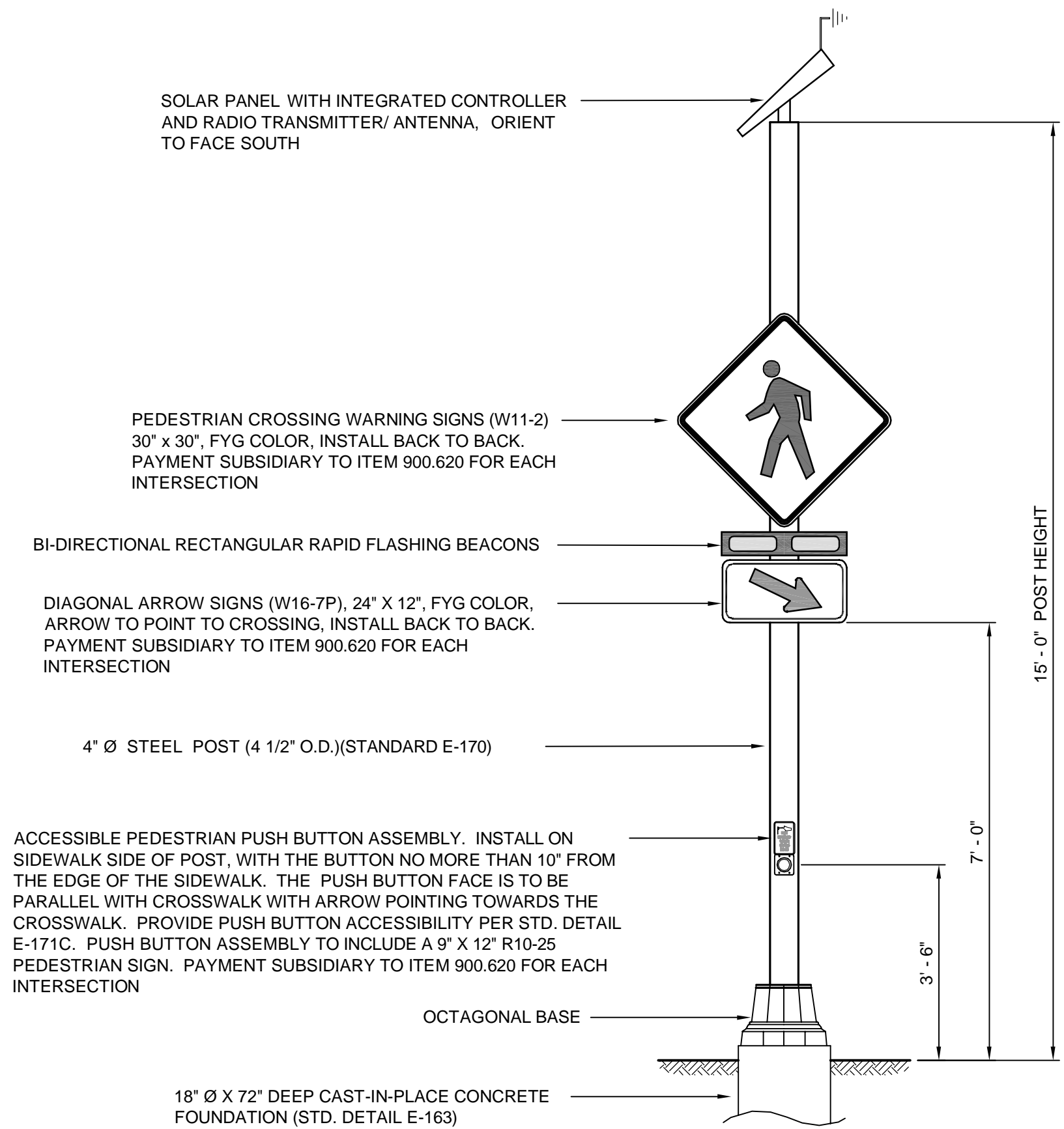




**DECORATIVE STREET LIGHT ASSEMBLY, TYPE A**  
NTS



**DECORATIVE STREET LIGHT ASSEMBLY, TYPE B**  
NTS



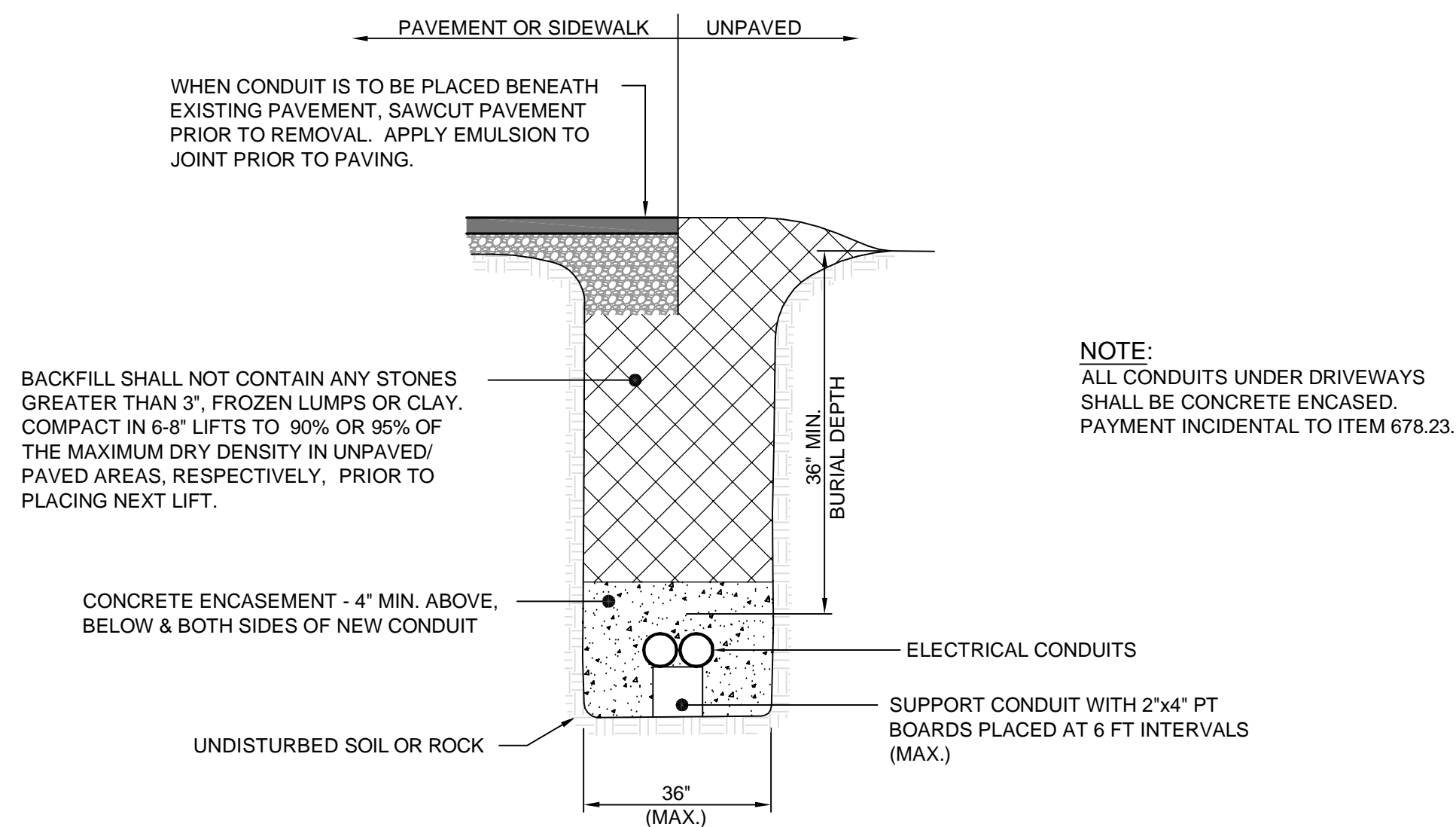
**RECTANGULAR RAPID FLASHING BEACON DETAIL**  
NTS

LIST OF MAJOR EQUIPMENT	QUANTITY
RRFB INTERFACE / CONTROLLER / ENERGY MGMT. SYSTEM	6
SOLAR PANELS / BATTERIES	6
BI-DIRECTIONAL RRFB LIGHT BARS	6
ACCESSIBLE PUSH BUTTON ASSEMBLIES	6
30" x 30" W11-2 PEDESTRIAN CROSSING WARNING SIGNS	12
24" x 12" W16-7P DIAGONAL ARROW SIGNS	12

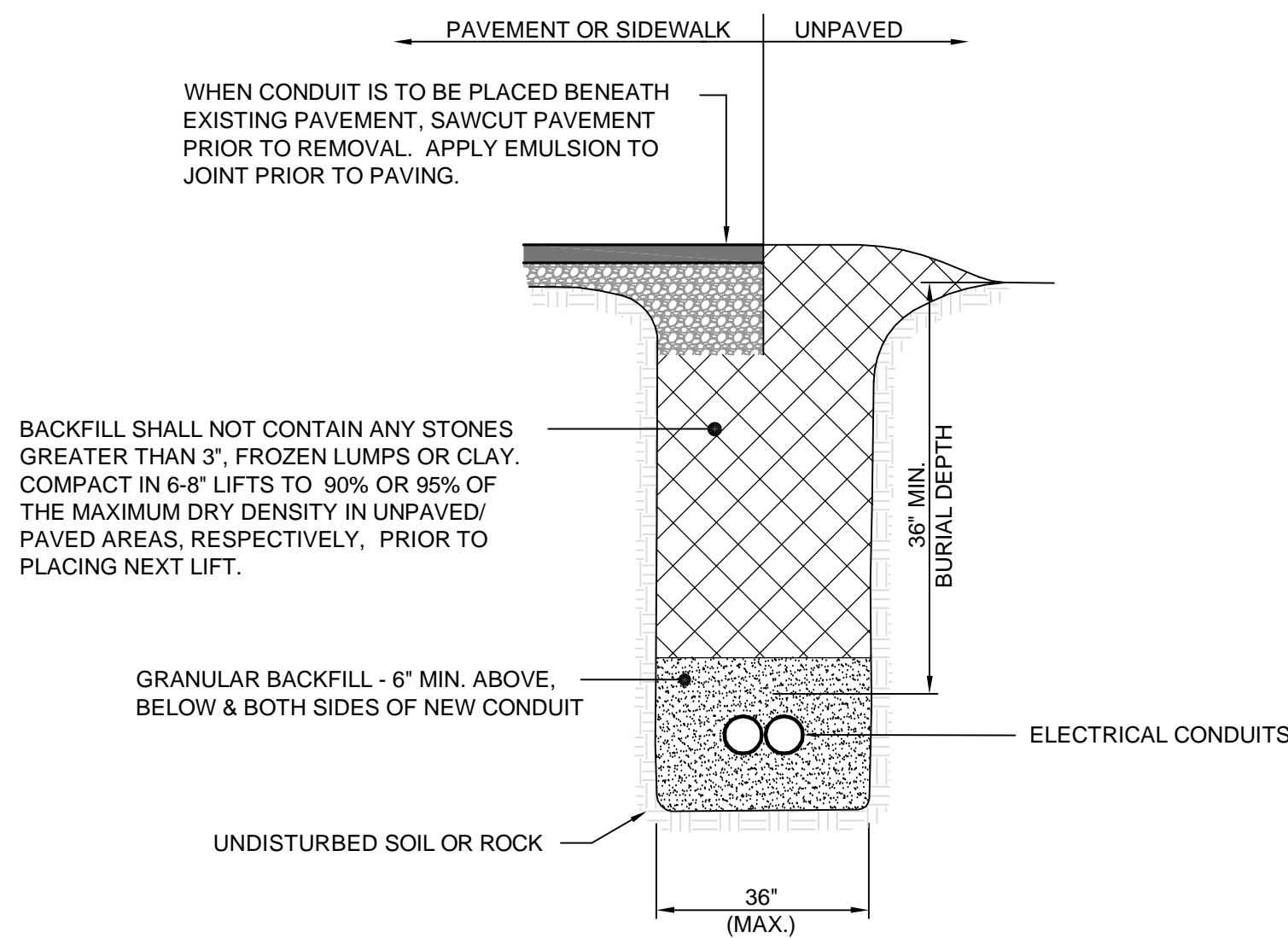
THE QUANTITIES LISTED ABOVE ARE APPROXIMATE AND ARE FURNISHED FOR INFORMATION ONLY. MISCELLANEOUS (UNLISTED) WIRE, CABLE, HARDWARE ETC., ARE REQUIRED TO PROVIDE FOR A FUNCTIONING RECTANGULAR RAPID FLASHING BEACON SYSTEM.

**LIST OF MAJOR EQUIPMENT - RRFB**

ALL WORK, EQUIPMENT AND MATERIALS TO CONSTRUCT THE RECTANGULAR RAPID FLASHING BEACON ASSEMBLIES WILL BE PAID AS:  
- ITEM 900.620 SPECIAL PROVISION (RECTANGULAR RAPID FLASHING BEACONS, CHRISEMILY LANE),  
- ITEM 900.620 SPECIAL PROVISION (RECTANGULAR RAPID FLASHING BEACONS, BOYSENBERRY DRIVE), AND  
- ITEM 900.620 SPECIAL PROVISION (RECTANGULAR RAPID FLASHING BEACONS, BOMBARDIER ROAD).



**WIRED CONDUIT TRENCH  
WITH CONCRETE ENCASEMENT**  
NTS



**WIRED CONDUIT TRENCH**  
NTS

PROJECT NAME: ROUTE 7 SIDEWALK GAP PROJECT  
PROJECT NUMBER: MILTON STP BP16(10)

L&D PROJECT #: 17052  
PROJECT LEADER: DH  
DESIGNED BY: DH  
STREET LIGHTING & RRFB DETAILS

PLOT DATE: JUNE 25, 2019  
DRAWN BY: WH  
CHECKED BY: RD  
SHEET 41