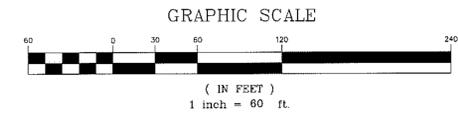
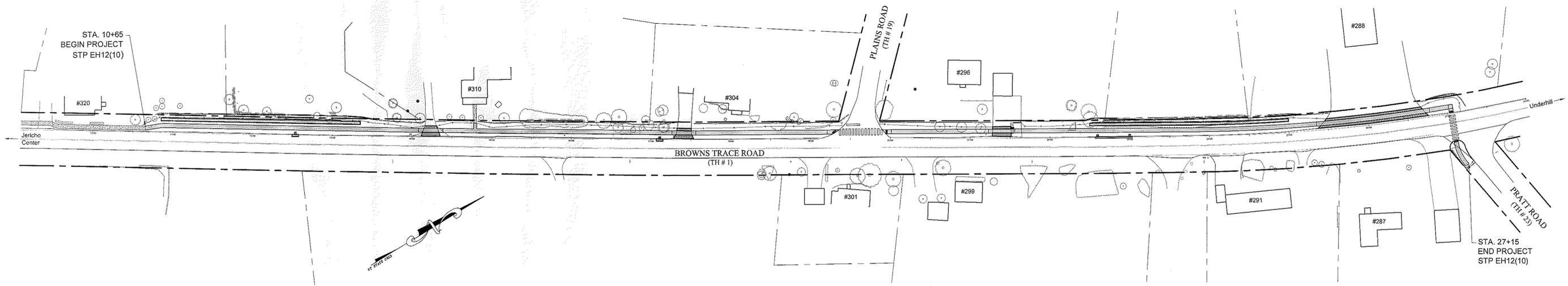
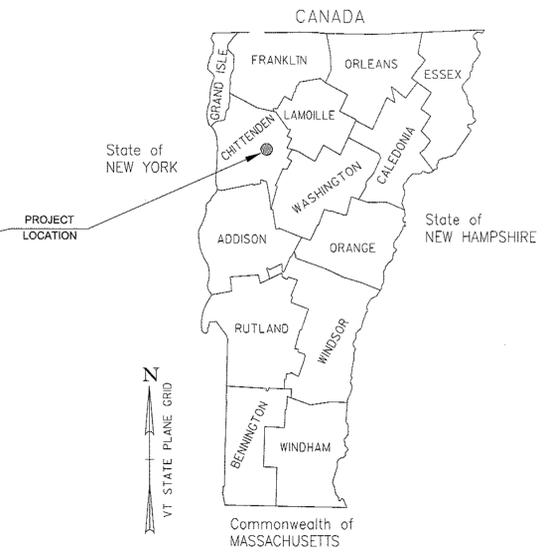
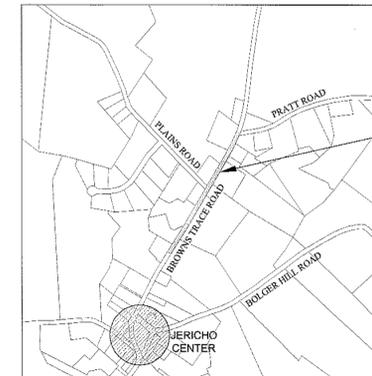


Town of Jericho County of Chittenden Jericho Center Multimodal Connection Jericho STP EH12(10)

PROJECT LOCATION: ALONG THE WEST SIDE OF BROWNS TRACE ROAD, TH#1, BEGINNING APPROXIMATELY 830 FEET NORTH OF JERICHO CENTER CIRCLE AND PROCEEDING NORTHERLY FOR 1650 FEET ENDING AT PRATT ROAD.

LENGTH OF SIDEWALK 1620 FEET 0.307
LENGTH OF PROJECT 1650 FEET 0.313

PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES GRADING, SUBBASE, NEW 5' WIDE SIDEWALK, CROSS WALKS, DRIVEWAY RECONSTRUCTION, AND RELATED ITEMS.



INDEX OF SHEETS

- 1 TITLE SHEET
- 2 QUANTITY SHEET
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- 4-6 LAYOUT PLANS
- 7-9 CROSS SECTIONS
- 10-11 TRAFFIC CONTROL PLANS
- 12 SIGN SUMMARY SHEET
- 13-16 EROSION PREVENTION & SEDIMENT CONTROL PLANS
- 17-21 RIGHT OF WAY PLANS

STANDARD SHEETS

- B-5 SLOPE GRADING, EMBANKMENTS, MUCK
- B-71 RESIDENTIAL AND COMMERCIAL DRIVES
- C-2A PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES
- C-2B PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES
- C-3A SIDEWALK RAMPS
- C-3B SIDEWALK RAMPS AND MEDIAN ISLANDS
- C-10 CURBING
- D-3 TREATED GUTTERS
- D-4 FLUSHING BASINS, END SECTION, ELBOWS, TYPICAL WATERFALL FOR CULVERTS UP TO AND INCLUDING 48" DIA., EXTENSION SERVICE BOX AND CURB STOP, CORRUGATED PIPE ELBOW, GRANULAR BORROW AT CULVERT LOCATIONS, UNDERDRAIN FLUSHING BASIN, CORRUGATED STEEL PIPE END SECTION, CORRUGATED STEEL PIPE ARCH END SECTION
- D-6 REINFORCED CONCRETE DROP INLET WITH GRATE (DITCHES)
- D-15 PRECAST REINFORCED CONCRETE MANHOLE GRATES (BICYCLE SAFE), CAST IRON GRATE WITH FRAME, TYPE D, CAST IRON GRATE WITH FRAME, TYPE E
- D-20 HIGHWAY CROSSING FOR UNDERGROUND UTILITIES
- E-100 CONSTRUCTION APPROACH SIGNS
- E-101 CONSTRUCTION SIGN DETAILS
- E-102 CONSTRUCTION SIGN DETAILS
- E-102A CONSTRUCTION SIGN DETAILS
- E-106 TRAFFIC CONTROL - MISCELLANEOUS DETAILS
- E-107 DELINEATION, BARRICADES AND DETAILS FOR CONSTRUCTION AREAS
- E-107A BREAKAWAY BARRICADE DETAILS
- E-108 CONSTRUCTION ZONE LONGITUDINAL DROP OFFS
- E-108A CONSTRUCTION ZONE LONGITUDINAL DROP OFFS FOR PAVING
- E-164 SQUARE STEEL SIGN POST
- E-191 PAVEMENT MARKING DETAILS
- E-193 PAVEMENT MARKING DETAILS
- 6-01-94
- 7-08-05
- 10-14-05
- 10-14-05
- 3-10-08
- 3-10-08
- 2-11-08
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- 6-01-94
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- 6-30-03
- 5-01-04
- 3-01-04
- 6-30-03
- 6-08-09
- 6-08-09
- 6-08-09
- 6-08-09
- 6-08-09
- 2-01-99
- 8-18-95

NOTES:

1. 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 DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS INCORPORATED IN THESE PLANS.
2. THE BROWNS TRACE ROAD SIDELINES ARE BASED ON LIMITED FOUND EXISTING BOUNDARY EVIDENCE AND PLANS BY VTRANS. THE INDIVIDUAL PROPERTY LINES WERE LOCATED BASED ON FOUND EVIDENCE, THE ABOVE VTRANS PLANS, PROPERTY SURVEYS AND TOWN PARCEL MAPS.
3. LINES SHOWN ON THESE PLANS AS EXISTING PROPERTY LINES ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO JERICHO'S ACQUISITION OF LANDS AND RIGHTS FOR THE PROJECT.

FUNDING ASSISTANCE FOR THIS PROJECT IS BEING FURNISHED BY FHWA AND THE TOWN OF JERICHO

QUALITY ASSURANCE PROGRAM: LEVEL 2

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83(1996)

PRELIMINARY PLANS JULY 2013



TOWN OF JERICHO
APPROVED _____ DATE _____
DIRECTOR OF PUBLIC WORKS

PROJECT NAME : BROWNS TRACE ROAD SIDEWALK/PATH
PROJECT NUMBER : JERICHO STP EH12(10)

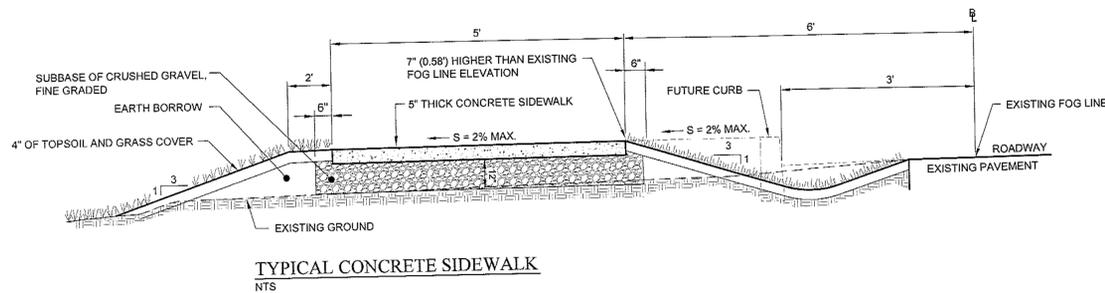
QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
									Initial Group	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
									1	1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10				
									670	670		CY	COMMON EXCAVATION	203.15				
									9.5	9.5		CY	EXCAVATION OF SURFACES AND PAVEMENTS	203.28				
									380	380		CY	EARTH BORROW	203.30				
									18	18		CY	TRENCH EXCAVATION OF EARTH	204.20				
									4	4		CY	TRENCH EXCAVATION OF ROCK	204.21				
									1.5	1.5		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10				
									315	315		CY	SUBBASE OF CRUSHED GRAVEL, COARSE GRADED	301.25				
									300	300		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35				
									1	1		CWT	EMULSIFIED ASPHALT	404.65				
									19	19		TON	BITUMINOUS CONCRETE PAVEMENT	406.25				
									14	14		LF	18" CSP .079 (2-2/3 X 1/2)	601.0016				
									56	56		LF	18" CPEP	601.0915				
									4	4		EACH	CONCRETE CATCH BASIN WITH CAST IRON GRATE	604.10				
									590	590		CY	GABION WALL	613.25				
									320	320		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10				
									90	90		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH	618.11				
									40	40		SF	DETECTABLE WARNING SURFACE	618.30				
									500	500		LF	CHAIN-LINK FENCE, 4 FEET	620.11				
									40	40		HR	UNIFORMED TRAFFIC OFFICERS	630.10				
									500	500		HR	FLAGGERS	630.15				
									1	1		LS	MOBILIZATION/DEMobilIZATION	635.11				
									1	1		LS	TRAFFIC CONTROL	641.10				
									65	65		LF	4 INCH WHITE LINE	646.20				
									20	20		LF	4 INCH YELLOW LINE	646.21				
									17	17		LF	DURABLE 24 INCH STOP BAR	646.480				
									115	115		LF	DURABLE CROSSWALK MARKING	646.500				
									1025	1025		SY	GEOTEXTILE FOR SILT FENCE	649.51				
									65	65		LB	SEED	651.15				
									65	65		LB	FERTILIZER	651.18				
									0.65	0.65		TON	HAY MULCH	651.25				
									170	170		CY	TOPSOIL	651.35				
									4	4		EACH	INLET PROTECTION DEVICE, TYPE I	653.40				
									1400	1400		LF	PROJECT DEMARCATION FENCE	653.55				
									40	40		SF	TRAFFIC SIGNS, TYPE A	675.20				
									100	100		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341				
									9	9		EACH	REMOVING SIGNS	675.50				
									1	1		EACH	ERECTING SALVAGED SIGNS	675.60				

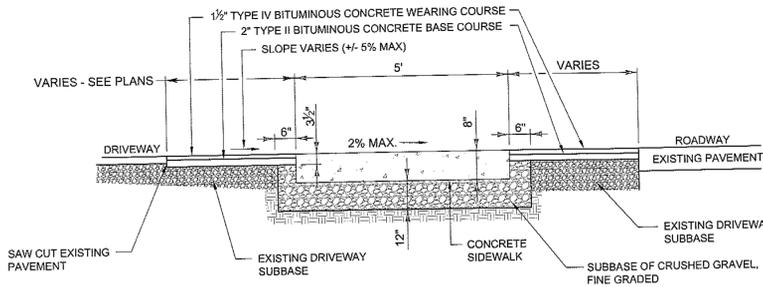
PROJECT NAME: **Jericho Center Multimodel Connection**
PROJECT NUMBER: **12089**
FILE NAME: P:/2012/12089/Cost Estimates/Quantity PLOT DATE: 08/07/2013
PROJECT LEADER: RD DRAWN BY: L&D
DESIGNED BY: RD CHECKED BY: DG
QUANTITY SHEET #1 SHEET 2 OF 21

GENERAL CONSTRUCTION SPECIFICATIONS

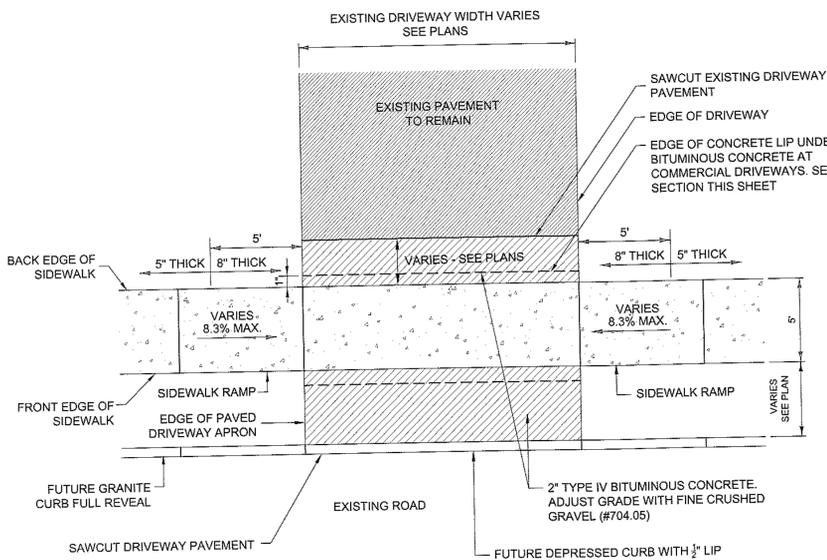
1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2011 AND ITS LATEST REVISIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION) AND THESE PLANS.
2. THE CONTRACTOR SHALL CONTACT ALL UTILITIES BEFORE EXCAVATION TO VERIFY THE LOCATION OF ANY UNDERGROUND LINES. THE CONTRACTOR SHALL NOTIFY "DIG SAFE" AND THE TOWN OF JERICHO PUBLIC WORKS DEPARTMENT PRIOR TO ANY EXCAVATION.
3. UTILITIES INFORMATION SHOWN HEREON WERE OBTAINED FROM BEST AVAILABLE SOURCES AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. EXPLORATORY EXCAVATION SHALL BE COORDINATED WITH THE LOCATIONS SHOWN ON THE PLANS. ADDITIONAL EXPLORATORY EXCAVATION SHALL BE PERFORMED IN THE 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.
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.



TYPICAL CONCRETE SIDEWALK
N.T.S.



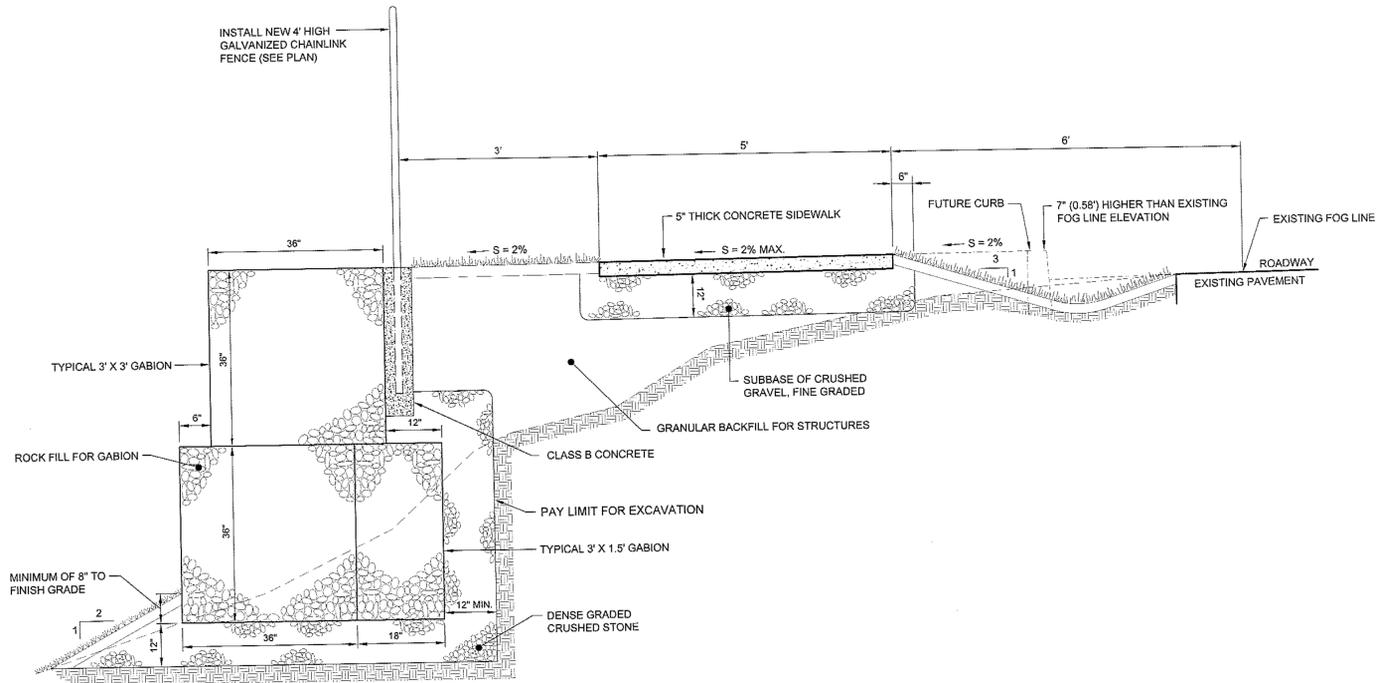
TYPICAL 8" THICK CONCRETE SIDEWALK ACROSS DRIVEWAYS
N.T.S.



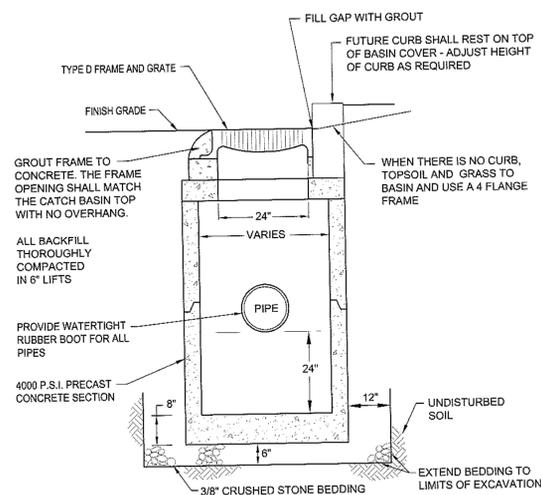
NOTES:

1. SUBBASE MATERIALS SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY USING THE STANDARD PROCTOR TEST, ACCORDING TO ASTM D698.
2. EMULSIFIED ASPHALT SHALL BE APPLIED TO THE FACE OF CURB BELOW GRADE, EDGE OF SIDEWALK AND 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.

TYPICAL BITUMINOUS CONCRETE DRIVEWAY APRON WITH SIDEWALK DETAIL
N.T.S.



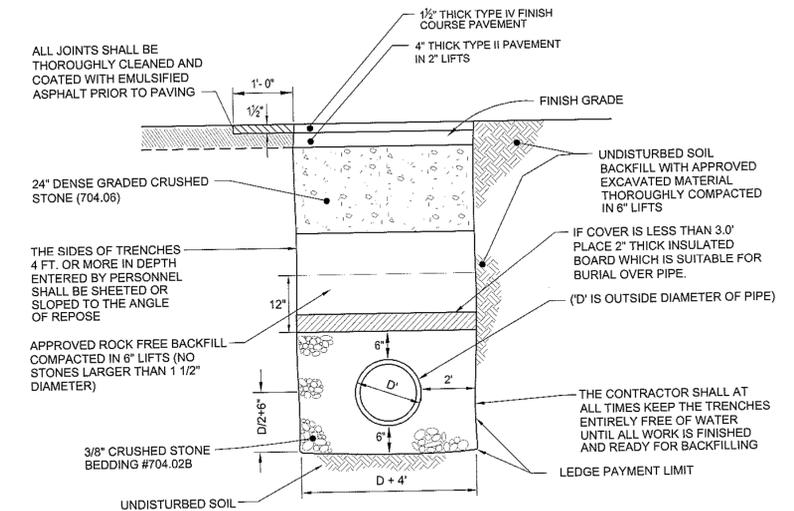
TYPICAL CONCRETE SIDEWALK WITH GABION WALL
N.T.S.



NOTES:

1. CATCH BASIN TOP ELEVATIONS SHALL BE ADJUSTED AS NEEDED SO THAT THE GRATE WILL BE SLIGHTLY DEPRESSED WITH THE PAVEMENT OVERLAY.
2. LEDGE PAYMENT LIMIT SHALL BE A MAXIMUM DISTANCE OF 24" FROM STRUCTURE.
3. ALL STRUCTURES TO BE DESIGNED BY A STRUCTURAL ENGINEER TO WITHSTAND AN H20 LOADING REQUIREMENT. INSIDE DIAMETER OF STRUCTURE WILL BE DETERMINED BY THE STRUCTURAL ENGINEER AND WILL VARY BASED ON SIZE AND ORIENTATION OF PIPES. CONTRACTOR TO SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SPECIAL PROVISION (PRECAST CONCRETE CATCH BASIN WITH CAST IRON GRATE).
4. SEE SPECIAL PROVISIONS FOR A LIST OF WORK AND MATERIALS THAT ARE INCIDENTAL TO THE STRUCTURE.

TYPICAL PRECAST CONCRETE CATCH BASIN WITH CAST IRON GRATE
N.T.S.



NOTES:

1. SEE OPTION PIPE SPECIAL PROVISION FOR A LIST OF WORK AND MATERIALS THAT ARE INCIDENTAL TO THE SPECIAL PROVISION OPTION PIPE ITEMS.
2. REMOVAL OF EXISTING CONCRETE IN ROADWAY PAID UNDER SOLID ROCK EXCAVATION (ITEM 203.16). LEDGE ENCOUNTERED WITHIN THE PAYMENT LIMIT FOR THE TRENCH SHALL BE PAID UNDER SOLID ROCK EXCAVATION (ITEM 203.16). REMOVAL OF EXISTING PAVEMENT PAID UNDER EXCAVATION OF SURFACES AND PAVEMENTS (ITEM 203.28). SAW CUTTING ASSOCIATED WITH THESE ITEMS IS INCIDENTAL TO PAY ITEMS 203.16 AND 203.28.

TYPICAL STORM TRENCH
N.T.S.

PRELIMINARY PLANS
JULY 2013

JERICHO CENTER MULTIMODAL CONNECTION
SEGMENTS 3 AND 4
STP EH12(10)

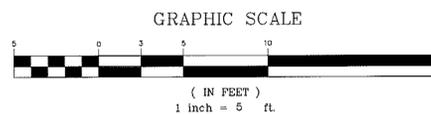
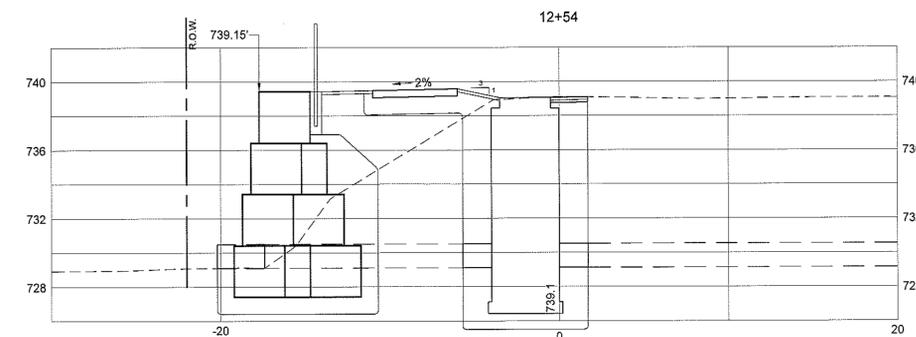
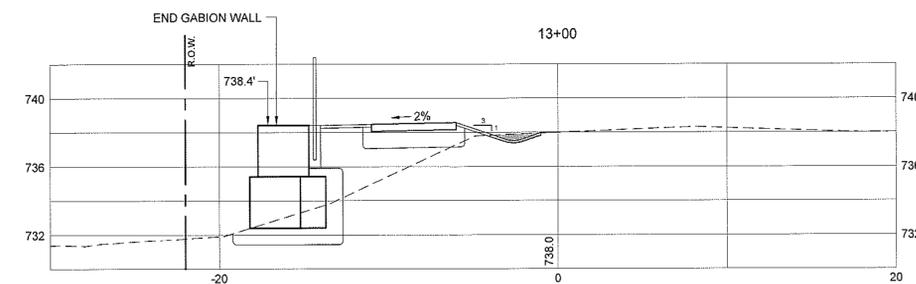
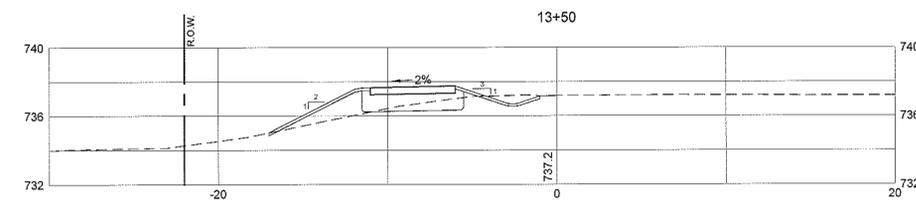
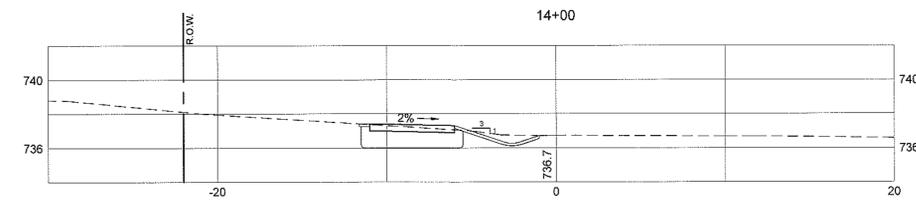
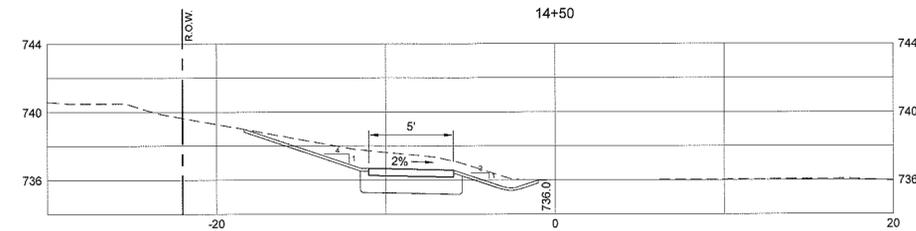
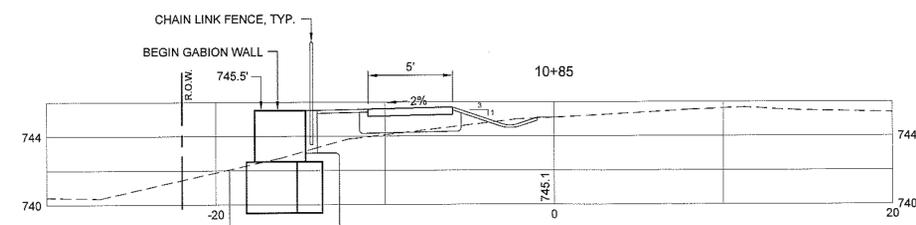
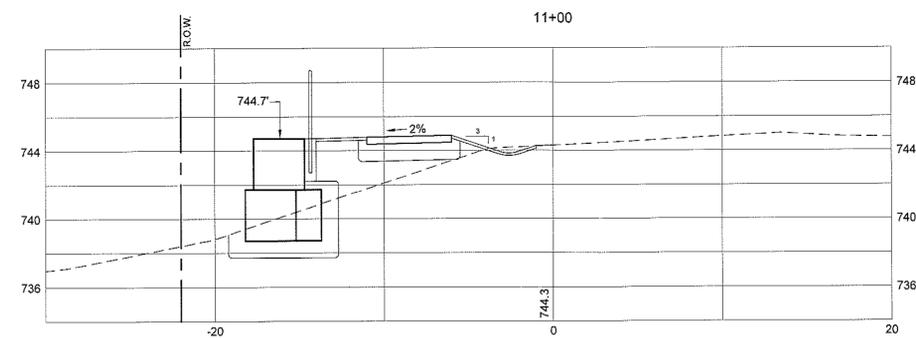
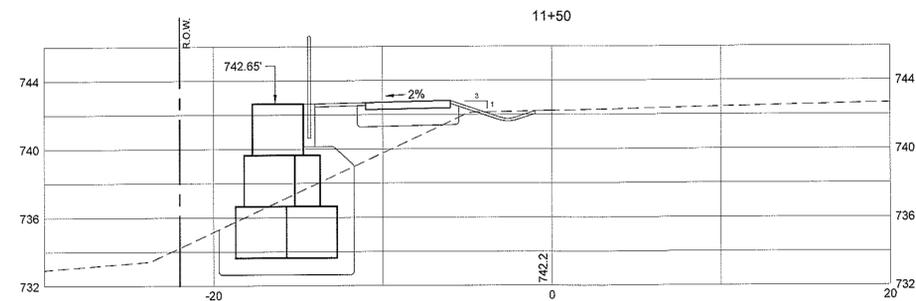
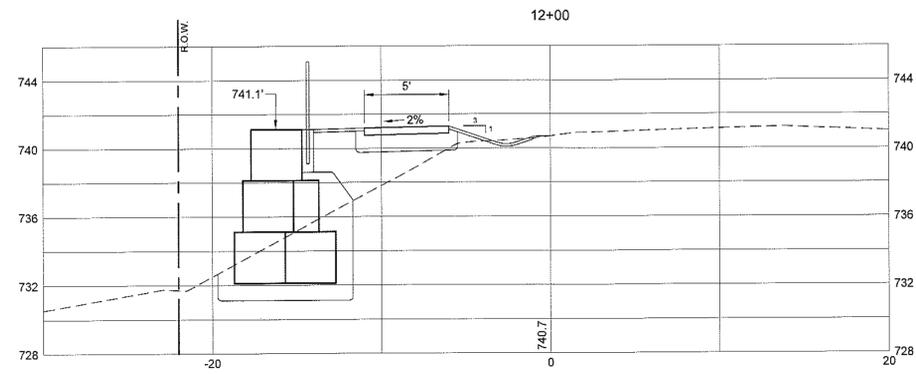
TYPICAL
SECTIONS
& DETAILS

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

L&D PROJECT NUMBER: 12089
CHECKED BY: RD

SHEET:

3



PRELIMINARY PLANS
JULY 2013

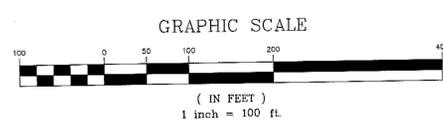
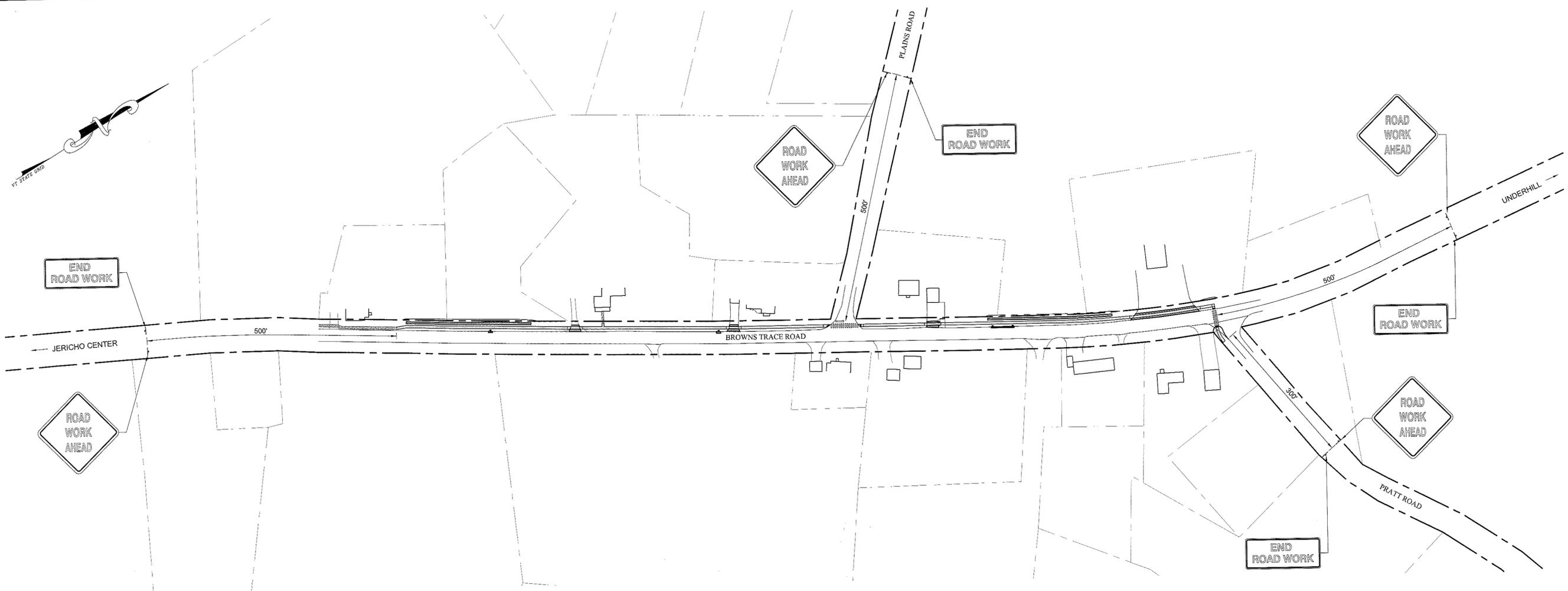
CROSS SECTIONS
STA. 10+85
TO STA. 14+50

JERICHO CENTER MULTIMODAL CONNECTION
SEGMENTS 3 AND 4
STP EH12(10)

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Consulting Engineers, Inc.
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802-878-4450 www.LDEngineering.com

L&D PROJECT NUMBER: 12089
CHECKED BY: RD

SHEET:
7



TEMPORARY TRAFFIC CONTROL NOTES

1. THE TRAFFIC SIGNAGE PLAN ABOVE IS FOR APPROACH SIGNAGE ONLY. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN TO THE RESIDENT ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION AND IN ACCORDANCE WITH THE MUTCD.
2. ALL TEMPORARY CONTROL DEVICES SHALL MEET OR EXCEED VTRANS STANDARD DETAILS E-100, E-101, E-102, E-108, E-110. WHERE E - STANDARDS CONFLICT WITH THE MUTCD, THE MUTCD SHALL GOVERN.
3. FOR ANY WORK WITHIN THE HIGHWAY RIGHT-OF-WAY A MINIMUM OF ALTERNATING ONE-WAY THRU TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. CONTINUOUS TWO-WAY TRAFFIC SHALL BE MAINTAINED AT NIGHT, ON WEEKENDS AND HOLIDAYS, DURING PEAK TRAFFIC (7AM-9AM & 3PM-6PM) AND WHENEVER POSSIBLE DURING CONSTRUCTION.
4. SHORT TERM STATIONARY TRAFFIC CONTROL SIGNING AND CHANNELIZING DEVICES SHALL BE IN ACCORDANCE WITH THE APPROPRIATE MUTCD STANDARDS (PART 8). TYPICAL APPLICATIONS 3.10, 22 AND 23 ARE USEFUL EXAMPLES. VARIATIONS IN THE SIGNING PACKAGES MAY BE DICTATED BY UNIQUE GEOMETRY, SPECIFIC CONSTRUCTION ACTIVITIES, AND/OR TRAFFIC CONDITIONS.
5. APPROACH CONSTRUCTION SIGNING (LONG TERM STATIONARY) SHALL REMAIN IN PLACE DURING THE ENTIRE CONSTRUCTION PERIOD.
6. THE CONTRACTOR SHALL NOT WORK WITHIN THE HIGHWAY ROW WITHOUT THE APPROPRIATE CITY APPROVED CONSTRUCTION SIGNING AND TEMPORARY TRAFFIC CONTROL DEVICES IN PLACE.
7. TO FACILITATE THE FLOW OF TRAFFIC, THE TOWN SHALL HAVE AUTHORITY TO MODIFY THE CONTRACTOR'S ONGOING OPERATIONS OR PROPOSED METHODS OF CONSTRUCTION AS DEEMED NECESSARY FOR THE SAFETY, CONVENIENCE AND WELFARE OF THE TRAVELING PUBLIC. THE CONTRACTOR SHALL COMPLY WITH THE TOWN'S DIRECTIVES CONCERNING THIS MATTER.
8. THE MIXING OF TEMPORARY TRAFFIC CONTROL DEVICES (DRUMS, CONES, ETC.) ALONG A TANGENT HIGHWAY IS NOT ALLOWED. DRUMS SHOULD BE USED TO CHANNELIZE OR DELINEATE ROAD USER'S FLOW WHILE REFLECTORIZED CONES ARE BETTER SUITED TO DELINEATE DRIVES WITHIN THE WORK ZONE.
9. CONTRACTOR SHALL PROVIDE A MINIMUM 48 HOUR ADVANCE NOTICE TO PROPERTY OWNERS PRIOR TO COMMENCING WORK IN DRIVES. WHERE SIDEWALKS CROSS DRIVES, THEY SHALL BE CONSTRUCTED IN TWO PHASES, MAINTAINING ACCESS TO DRIVEWAYS AT ALL TIMES.
10. FLAGGERS AND/OR TRAFFIC CONTROL PERSONNEL SHALL DIRECT BICYCLISTS THROUGH THE CONSTRUCTION AREA IN THE SAME MANNER AS VEHICULAR TRAFFIC.

TEMPORARY CONSTRUCTION SIGNS

1. ALL SIGN STANDS AND POST INSTALLATION SHALL BE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM 350 (NCHRP) COMPLIANT.
2. AS A MINIMUM, ROLL-UP SIGN MATERIAL SHALL HAVE ASTM D 4956-01 TYPE VI FLUORESCENT ORANGE RETRO-REFLECTIVE SHEETING.
3. ALL POST MOUNTED SIGNS SHALL HAVE ASTM D 4956-01 TYPE VII, TYPE VIII OR TYPE IX FLUORESCENT ORANGE RETRO-REFLECTIVE SHEETING.
4. ALL TRAFFIC CONES, BARRICADES AND BARRELS SHALL USE TYPE III RETRO-REFLECTIVE SHEETING.
5. ALL STATIONARY SIGNS SHALL BE MOUNTED ON TWO 3 LBS/FT FLANGED CHANNEL OR SQUARE STEEL POSTS. NO SIGN POSTS SHALL EXTEND OVER THE TOP EDGE OF THE SIGN INSTALLED ON SAID POSTS.
6. PRIOR TO PLACING LONG TERM STATIONARY WORK ZONE SIGNS ON THE PROJECT, THE CONTRACTOR MUST FURNISH FOR THE CITY'S APPROVAL A DETAIL FOR LONG TERM STATIONARY WORK ZONE SIGNS ON STEEL POSTS SHOWING STUBS PROJECTING A MAXIMUM OF 4 INCHES ABOVE GROUND LEVEL AND BOLTS FOR SIGN POST ATTACHMENT SHALL BE NCHRP 350 COMPLIANT, IF IN THE CLEAR ZONE.

FLAGGERS AND UNIFORM TRAFFIC OFFICERS

FLAGGERS SHALL BE REQUIRED TO ATTEND A 4 HOUR APPROVED TRAINING COURSE AND CARRY THEIR FLAGGER CERTIFICATION CARD WITH THEM. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL DOCUMENTATION OF THE CERTIFICATION OBTAINED FOR EACH FLAGGER ON THE PROJECT.

ALL FLAGGERS OR UTO SERVING AS A TRAINED FLAGGER SHALL WEAR SAFETY APPAREL MEETING REQUIREMENTS OF ISEA "AMERICAN NATIONAL STANDARD OF HIGH-VISIBILITY APPAREL" AND LABELED AS MEETING THE ANSI/ISEA 107-2004 STANDARD PERFORMANCE FOR CLASS 2 RISK EXPOSURE. INDIVIDUALS ENGAGED IN TRAFFIC CONTROL SHALL WEAR THE HIGH-VISIBILITY VEST WITH "TRAFFIC CONTROL" VISIBLE, WITHOUT EXCEPTION.

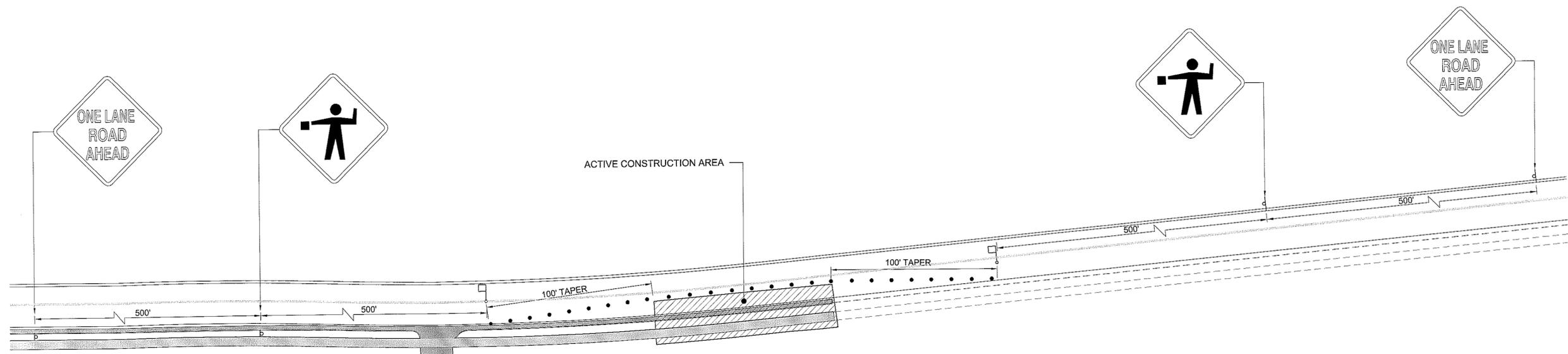
MUTCD TYPICAL APPLICATIONS TA-6, TA-10 & TA-13 SHALL BE USED WHEN NECESSITATED BY THE CONTRACTOR'S WORK OPERATIONS



SHORT-TERM STATIONARY DAY SIGNS

PRELIMINARY PLANS
JULY 2013

<p>TRAFFIC CONTROL PLAN</p>	<p>JERICO CENTER MULTIMODAL CONNECTION SEGMENTS 3 AND 4 STP EH12(10)</p>		<p>SHEET: 10</p>
	<p>Lamoureux & Dickinson Consulting Engineers, Inc. 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDengineering.com</p>	<p>L&D PROJECT NUMBER: 12089 CHECKED BY: RD</p>	



TYPICAL SHORT-TERM LANE CLOSURE DETAIL

LEGEND

- • 28" REFLECTORIZED CONES
- FLAGGER
- ⊥ TRAFFIC CONTROL SIGN

NOTES:

1. ON ANY ONE STREET, SIDEWALK CONSTRUCTION SHALL PROCEED ON ONLY ONE SIDE AT A TIME.
2. CONTRACTOR SHALL STAGE SIDEWALK CONSTRUCTION SO THAT AT ALL TIMES THERE EXISTS A CONTINUOUS, FUNCTIONAL PEDESTRIAN ROUTE, WITH DETOURS AND TEMPORARY CROSSWALKS AS NECESSARY.
3. ONCE PROJECT IS COMPLETE, TEMPORARY CROSSWALKS SHALL BE REMOVED BY GRINDING.



W20-4
48" x 48"
(BLACK ON ORANGE)



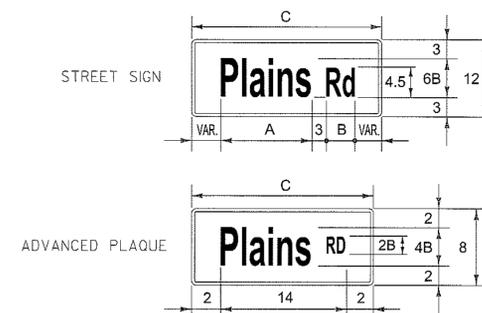
W20-7A
48" x 48"
(BLACK ON ORANGE)

PRELIMINARY PLANS
JULY 2013

TRAFFIC CONTROL PLAN	JERICHO CENTER MULTIMODAL CONNECTION SEGMENTS 3 AND 4 STP EH12(10)	
	 Lamoureux & Dickinson Consulting Engineers, Inc. 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDengineering.com	L&D PROJECT NUMBER: 12089 CHECKED BY: RD

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SIGN SUMMARY TABLE										
STATION	SIGN LEGEND	SIGN DIMENSIONS		AREA (SF)	NEW SIGN POSTS			MUTCD / COLOR		
		EACH	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+87 LT			24"	30"	5.0	1		13	R2-1	
16+50 LT			24"	30"	5.0	1		15	R2-1	
			18"	24"	3.0		R2-5E			
16+87.5 LT									INSTALL SALVAGED SIGN & POSTS	
19+38 LT			12"	40"	3.33	1		13	SEE DETAIL THIS SHEET	
			30"	30"	6.25		R1-1			
22+38 LT			30"	30"	6.25	1		13	W2-2	
			18"	8"	1.0		W16-8 SEE DETAIL THIS SHEET			
27+16 LT			36"	36"	9.0	1		13	W3-5	
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."					5	FT	FT	FT		
TOTALS					SF	38.83	FT	67		



TYPE	A	B	C
STREET	----	4.05	40
PLAQUE			18

ALL DIMENSIONS ARE IN INCHES

STREET NAME SIGNS

***COLORS**

THE SIGN SHALL HAVE REFLECTORIZED WHITE OR SILVER TEXT ON A REFLECTORIZED GREEN BACKGROUND. THE COLORS SHALL CONFORM WITH THOSE FOUND IN STANDARD COLOR TOLERANCE CHARTS AS APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION.

***LETTERING**

LETTERS AND DIGITS SHALL CONFORM WITH THE STANDARD ALPHABETS FOR HIGHWAY SIGNS PRINTED BY THE FEDERAL HIGHWAY ADMINISTRATION.

***SPECIFICATIONS**

THE SIGN SHALL MEET THE VERMONT STATE SPECIFICATIONS FOR "TRAFFIC SIGNS". THE MATERIAL FOR THE BLADES SHALL BE FLAT SHEET ALUMINUM WITH A MINIMUM THICKNESS OF 0.025 INCH. THE PREFERRED MOUNTING METHOD FOR STREET SIGNS IS POST TOP MOUNTING BRACKETS. HARDWARE FOR MOUNTING SIGNS TO POST SHALL BE INCIDENTAL TO OTHER ITEMS. MINIMUM VERTICAL CLEARANCE IS 8 FEET TO THE BOTTOM OF THE SIGN. FOR POST TOP MOUNTINGS, SIGNS SHALL HAVE TEXT ON BOTH SIDES. THE SIGN SHALL HAVE A 1/2" REFLECTORIZED WHITE BORDER AND 1.5" CORNER RADII.

PRELIMINARY PLANS
JULY 2013

SIGN SUMMARY SHEET	JERICHO CENTER MULTIMODAL CONNECTION SEGMENTS 3 AND 4 STP EH12(10)	
	Lamoureux & Dickinson Consulting Engineers, Inc. 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDengineering.com	L&D PROJECT NUMBER: 12089 CHECKED BY: RD
	SHEET:	12

TREE PRUNING AND PROTECTION

1. PRIOR TO THE START OF CONSTRUCTION, INSTALL TEMPORARY PROJECT DEMARCATION FENCE (PDF) IN LOCATIONS SHOWN ON PLANS FOR TREE AND PLANT PROTECTION.
2. PDF FENCE SHALL PROTECT EXISTING TREES, SHRUBS AND OTHER VEGETATION THROUGHOUT CONSTRUCTION AGAINST CUTTING, BREAKING OR SKINNING OF ROOTS; SKINNING AND BRUISING OF BARK; SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS; EXCESS FOOT OR VEHICULAR TRAFFIC, AND PARKING OF VEHICLES.
3. WHERE TEMPORARY CLEARANCE IS NEEDED DURING CONSTRUCTION THAT MAY CONFLICT WITH EXISTING TREES, BRANCHES SHALL BE TIED BACK TO HOLD THEM OUT OF THE CLEARANCE ZONE.
4. WHEN EXCAVATION IS TO OCCUR IN CLOSE PROXIMITY TO EXISTING TREES, ROOT PRUNING SHALL BE DONE PRIOR TO CONSTRUCTION. ROOTS SHALL BE CLEANLY CUT, WITH CUTS TO THE DEPTH OF THE REQUIRED EXCAVATION. WHEN COMPLETED, REPLACE SOIL IN THE TRENCH AREA.
5. ROOTS ENCOUNTERED DURING EXCAVATION IN THE VICINITY OF TREES SHALL BE CLEANLY CUT AND PROTECTED DURING CONSTRUCTION OPERATIONS. TEMPORARILY COVER EXPOSED ROOTS WITH A DOUBLE LAYER OF DAMPENED BURLAP TO PREVENT ROOTS FROM DRYING OUT UNTIL THEY CAN BE COVERED WITH SOIL. COVER ROOTS WITH SOIL AS SOON AS POSSIBLE REMOVING BURLAP FIRST.
6. IF ANY TREES OR SHRUBS DESIGNATED TO BE SAVED ARE DAMAGED AND REPLACEMENT IS REQUIRED, TREES OR SHRUBS OF THE SAME SPECIES AND VARIETY SHALL BE PURCHASED AND PLANTED BY THE CONTRACTOR. THE TOTAL INCH DIAMETER OF THE REPLACEMENT TREES OR SHRUBS SHALL EQUAL THE DIAMETER OF THE TREE OR SHRUB TO BE REPLACED, UP TO 3" IN DIAMETER.
7. PRUNING OF EXISTING TREES, AS IDENTIFIED ON THE PLANS, SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL SOCIETY OF ARBORICULTURE'S TREE PRUNING GUIDELINES, THE ANSI A300 PRUNING STANDARD AND THE MOST RECENT EDITION OF ANSI Z153.1.
8. REMOVE TEMPORARY PROTECTION DEVICES AND FACILITIES INSTALLED DURING COURSE OF WORK AFTER COMPLETION OF ALL WORK AND RESTORE PLANT PROTECTION AREAS TO THEIR ORIGINAL CONDITION.
9. WATER EXISTING TREES AND OTHER VEGETATION TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION AS REQUIRED TO MAINTAIN THEIR HEALTH DURING THE COURSE OF CONSTRUCTION OPERATIONS.

TURF ESTABLISHMENT

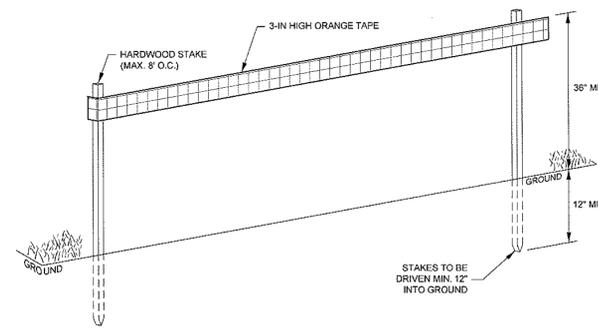
ALL DISTURBED AREAS THAT DO NOT HAVE AN IMPERVIOUS SURFACE SHALL BE STABILIZED WITH SEEDING AND MULCHING PRIOR TO OCTOBER 1. ANY WORK PERFORMED AFTER SEPTEMBER 15 OF EACH YEAR SHALL BE STABILIZED WITH MULCH OR NETTING SUFFICIENT TO PREVENT EROSION AND SHALL BE IMMEDIATELY SEEDED AND REMULCHED AS SOON AS WEATHER PERMITS IN THE SPRING. PLACEMENT OF TOPSOIL, AND THE APPLICATION OF SEED, FERTILIZER, LIME (WHERE APPLICABLE), AND MULCH SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

1. A MINIMUM OF 4" OF APPROVED TOPSOIL SHALL BE PLACED IN ALL AREAS. PLACEMENT OF TOPSOIL SHALL NOT BE DONE WHEN THE GROUND OR TOPSOIL IS FROZEN, EXCESSIVELY WET, OR OTHERWISE IN A CONDITION DETRIMENTAL TO THE WORK. FOLLOWING PLACEMENT OF TOPSOIL, THE SURFACE SHALL BE RAKED, ALL STONES, LUMPS, ROOTS, OR OTHER OBJECTIONAL MATERIAL SHALL BE REMOVED.
2. SEED MIXTURE SHALL CONFORM TO THE SEED MIX TABLE SHOWN ON THIS SHEET AND BE SPREAD UNIFORMLY IN ALL AREAS INDICATED ON THE PLANS AT THE SPECIFIED RATE. FOR SEEDING BETWEEN SEPTEMBER 1 AND OCTOBER 1, WINTER RYE SHALL BE OVERSEED AT AN APPLICATION RATE OF 120 POUNDS PER ACRE.
3. FERTILIZER SHALL CONFORM TO THE STANDARDS OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS AND BE APPLIED BASED UPON SOIL DEFICIENCIES. LIME SHALL ONLY BE APPLIED AS NEEDED BASED UPON A SOIL PH TEST.
4. WITHIN 24 HOURS OF APPLICATION OF SEED, FERTILIZER AND LIME, THE SURFACE SHALL BE MULCHED WITH A HAY MULCH. MULCH SHALL BE SPREAD UNIFORMLY OVER THE AREA AT A MINIMUM RATE OF 2 TONS PER ACRE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A FULL GROWTH OF GRASS IN ALL DISTURBED AREAS TO BE REVEGETATED. VEGETATION GROWTH SHALL BE PERMANENT AND SUFFICIENT TO PREVENT EROSION OF THE UNDERLYING SOIL UNDER ALL CONDITIONS OF PRECIPITATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING AND CARING FOR SEEDED, MULCHED, AND AREAS OF ESTABLISHED VEGETATION UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER.
6. FERTILIZER SHALL BE APPLIED AT THE FOLLOWING RATES: TREES: 32 OZ/INCH OF CALIPER, SHRUBS AND EVERGREENS: 4 OZ/FOOT OF HEIGHT OR SPREAD. ALL FERTILIZER AND MYCORRHIZAL FUNGI SHALL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO INSTALLATION.
7. A LIGHT LAYER OF SHREDDED HARDWOOD MULCH SHALL BE PLACED A MAXIMUM OF 2" THICK ON PLANTING BEDS. NO DYED MULCH WILL BE ACCEPTED.

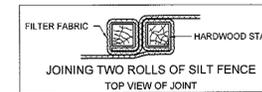
URBAN GRASS SEED MIX	
% OF MIX	TYPE OF SEED
50	PERENNIAL RYEGRASS
25	CREEPING RED FESCUE
15	KENTUCKY BLUEGRASS
10	ANNUAL RYEGRASS
100	SEED AT 4 TO 5 LBS PER 1,000 SQ. FT.

EROSION PREVENTION AND SEDIMENT CONTROL CONSTRUCTION EVENT SEQUENCING

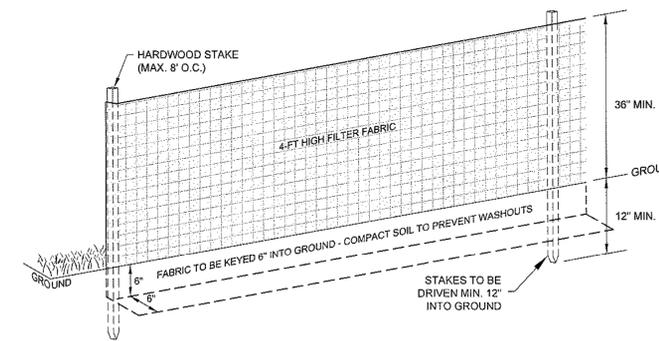
1. THIS PROJECT DOES NOT NEED COVERAGE UNDER THE VERMONT CONSTRUCTION STORMWATER PERMIT PROGRAM. HOWEVER, THE CONTRACTOR SHALL FOLLOW THE VT DEC EROSION PREVENTION AND SEDIMENT CONTROL BEST PRACTICES FOR LOW RISK SITES.
2. THE CONTRACTOR SHALL NOT HAVE DISTURBED EARTH IN ANY ONE LOCATION FOR MORE THAN 14 CONSECUTIVE CALENDAR DAYS WITHOUT TEMPORARY OR FINAL STABILIZATION.
3. THE AREA OF DISTURBED SOILS AND THE DURATION OF EXPOSURE OF THE DISTURBED SOILS SHALL BE MINIMIZED. TO ACCOMPLISH THIS, WORK EFFORT SHOULD BE FOCUSED ON THE COMPLETION AND STABILIZATION OF ONE WORK ITEM COMPONENT BEFORE PROCEEDING TO THE NEXT WORK ITEM COMPONENT.
4. FOR CONSTRUCTION OF THE SIDEWALKS AND CURB EXTENSION, ONLY THAT AREA NECESSARY FOR INSTALLATION SHALL BE DISTURBED.
5. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED DAILY AND SHALL BE PROMPTLY REPAIRED, REPLACED, OR ADDITIONAL MEASURES TAKEN TO CORRECT DEFICIENCIES.
6. DURING CONSTRUCTION, AREAS OF COMPLETED WORK SHALL BE SEEDED AND MULCHED WITHIN 48 HOURS OF FINISH GRADING. THIS SHALL INCLUDE CUT OR FILL SLOPES, AND GRASS AREAS.
7. ALL FINISHED SLOPES SHALL BE 3H:1V OR FLATTER OR AS INDICATED ON PLANS. WHERE EROSION OCCURS FOLLOWING MULCHING, EROSION MATTING SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
8. DISTURBED AREAS THAT ARE NOT BEING ACTIVELY WORKED SHALL BE STABILIZED WITHIN 24 HOURS WITH TEMPORARY SEED AND MULCH OR MATTING.
9. THE CONTRACTOR SHALL REMOVE ALL FENCING UPON STABILIZATION AND REVEGETATION.
10. DUST SHALL BE CONTROLLED IN ALL AREAS USING WATER AS NEEDED.



PROJECT DEMARCATION FENCE
NTS



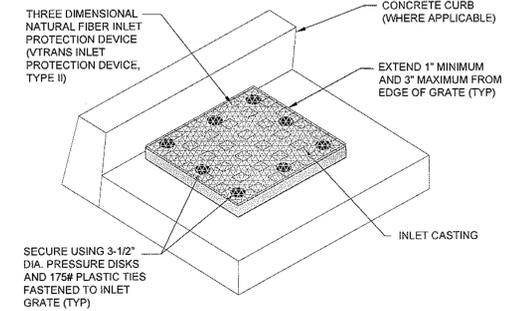
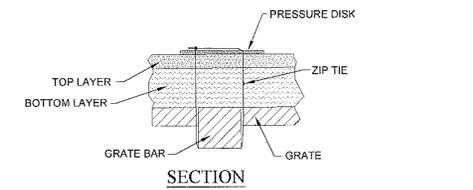
JOINING TWO ROLLS OF SILT FENCE
TOP VIEW OF JOINT



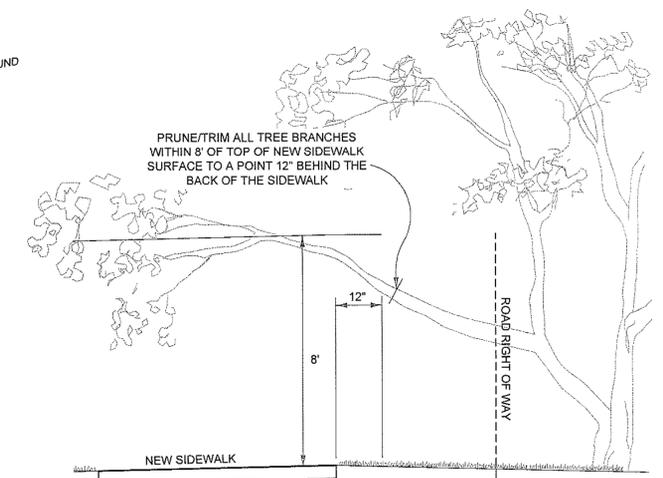
EROSION CONTROL SPECIFICATIONS

1. PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTHMOVING, THE CONTRACTOR SHALL INSTALL A CONTINUOUS SILT FENCE AT THE LIMIT OF DISTURBANCE AS SHOWN ON THESE PLANS.
2. TO ENSURE PROPER FUNCTION, THE SILT FENCE SHALL BE PROPERLY INSTALLED. THIS INCLUDES DRIVING THE POSTS TO A DEPTH OF 12 INCHES, KEYING THE SILT FENCE FABRIC 6 INCHES INTO THE GROUND, AND COMPACTING THE SOIL OVER THE KEYED-IN PORTION OF THE FABRIC. USE ONLY MANUAL METHODS OF INSTALLATION WITHIN WETLANDS AND BUFFER ZONES.
3. THE SILT FENCE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION OF THE PROJECT AND UNTIL ESTABLISHMENT OF VEGETATION SUFFICIENT TO PREVENT SOIL EROSION. AFTER WORK IS COMPLETE AND THE DISTURBED SOIL HAS BEEN STABILIZED, THE CONTRACTOR SHALL REMOVE ALL SILT FENCE FROM THE SITE.
4. PROPER SILT FENCE MAINTENANCE SHALL INCLUDE INSPECTIONS AT REGULAR INTERVALS AND AFTER EVERY HEAVY RAINFALL TO ENSURE THAT THERE ARE NO BROKEN POSTS; FABRIC TEARS; WASHOUTS OF THE BOTTOM EDGE OF THE FABRIC, OR EXCESSIVE SEDIMENT ACCUMULATION. ANY DAMAGE OR DEFECTS SHALL BE REPAIRED IMMEDIATELY. SEDIMENT ACCUMULATION OF MORE THAN ONE-QUARTER THE HEIGHT OF THE FABRIC SHALL BE REMOVED AND PLACED IN AN APPROPRIATE AREA OUTSIDE WETLANDS AND BUFFER ZONES.
5. THE CONTRACTOR SHALL INSTALL SILT FENCE AT OTHER LOCATIONS AS NEEDED.

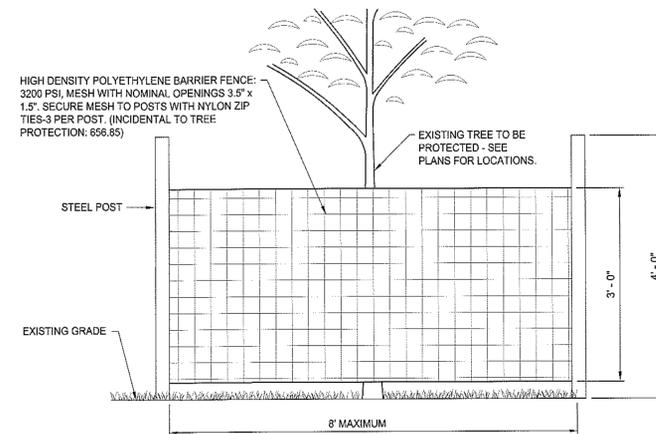
TEMPORARY EROSION CONTROL FENCE
NTS



INLET PROTECTION (TYPE II)
NTS



TREE PRUNING DETAIL
NTS



TREE PROTECTION ZONE DETAIL
NTS

PRELIMINARY PLANS
JULY 2013

JERICO CENTER MULTIMODAL CONNECTION
SEGMENTS 3 AND 4
STP EH12(10)

TYPICAL
DETAILS &
SPECIFICATIONS

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

L&D PROJECT NUMBER: 12089
CHECKED BY: RD

SHEET:

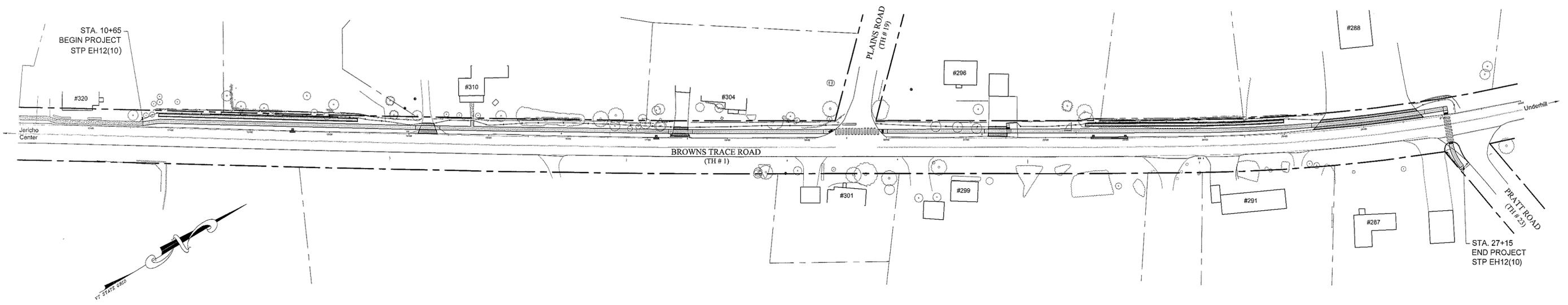
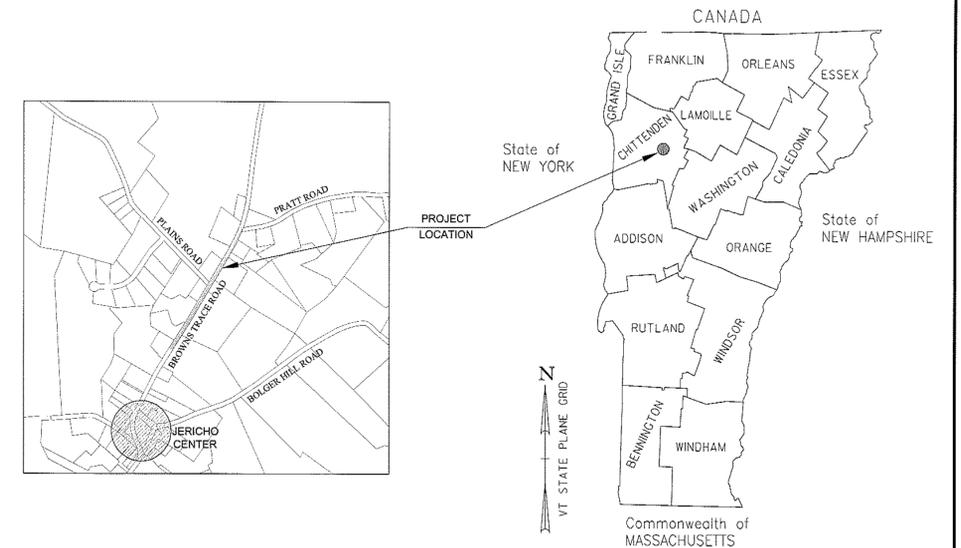
13

Town of Jericho County of Chittenden Jericho Center Multimodal Connection Jericho STP EH12(10)

PROJECT LOCATION: ALONG THE WEST SIDE OF BROWNS TRACE ROAD, TH#1, BEGINNING APPROXIMATELY 830 FEET NORTH OF JERICHO CENTER CIRCLE AND PROCEEDING NORTHERLY FOR 1650 FEET ENDING AT PRATT ROAD.

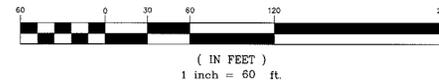
LENGTH OF SIDEWALK	1620 FEET	0.307
LENGTH OF PROJECT	1650 FEET	0.313

PROJECT DESCRIPTION: WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES GRADING, SUBBASE, NEW 5' WIDE SIDEWALK, NEW 8' WIDE SHARED USE PATH, CROSS WALKS, DRIVEWAY RECONSTRUCTION, AND RELATED ITEMS.



OVERALL SITE PLAN

GRAPHIC SCALE



INDEX OF SHEETS

	PROJECT SHEET
1 TITLE SHEET	17
2 ACQUISITION TABLE	18
3-5 R.O.W. LAYOUT PLANS	19 - 21

NOTES:

1. THE BROWNS TRACE ROAD SIDELINES ARE BASED ON LIMITED FOUND EXISTING BOUNDARY EVIDENCE AND PLANS BY VTRANS. THE INDIVIDUAL PROPERTY LINES WERE LOCATED BASED ON FOUND EVIDENCE, THE ABOVE VTRANS PLANS, PROPERTY SURVEYS AND TOWN PARCEL MAPS.
2. LINES SHOWN ON THESE PLANS AS EXISTING PROPERTY LINES ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO JERICHO'S ACQUISITION OF LANDS AND RIGHTS FOR THE PROJECT.

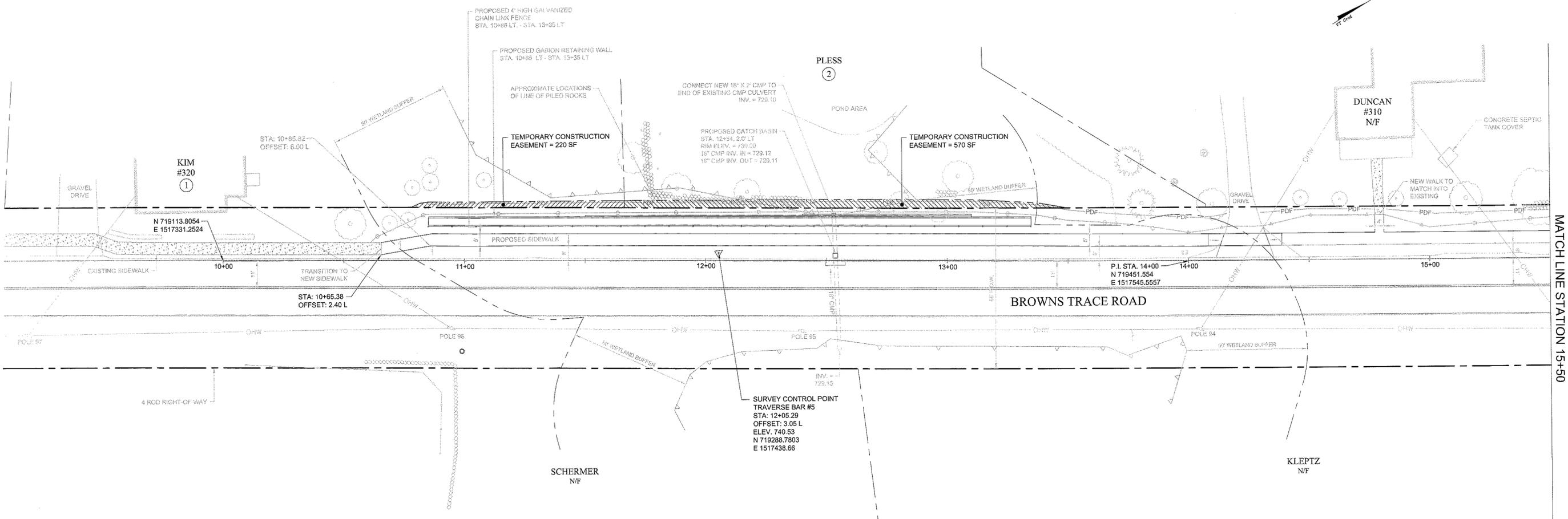
QUALITY ASSURANCE PROGRAM: LEVEL 2

DATUM

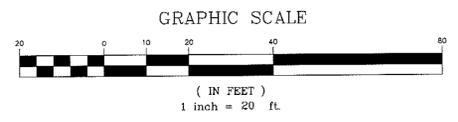
VERTICAL	NAVD 88
HORIZONTAL	NAD 83(1996)

DRAFT RIGHT-OF-WAY PLANS
JULY 2013

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



MATCH LINE STATION 15+50

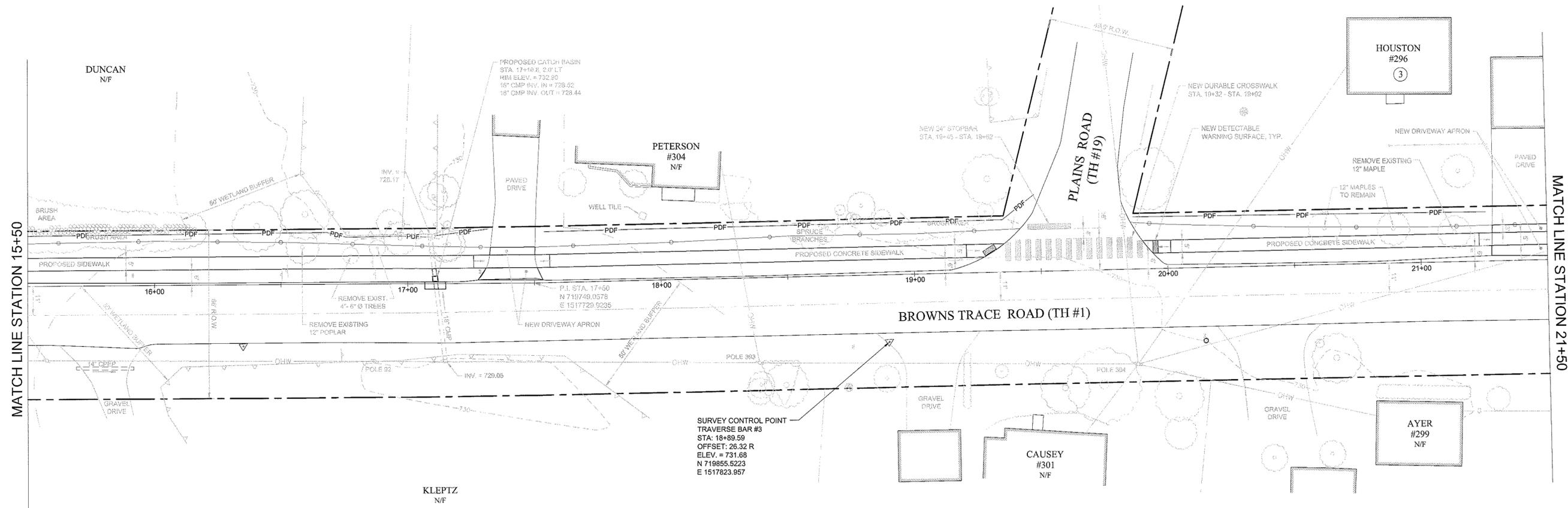
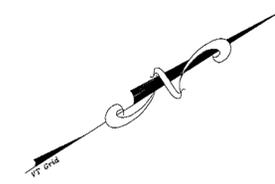


LEGEND

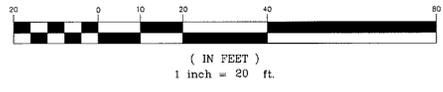
- SURVEY CONTROL POINT
- PROPERTY LINE
- RIGHT-OF-WAY
- TEMPORARY EASEMENT

DRAFT RIGHT-OF-WAY PLANS
JULY 2013

<p>DRAFT RIGHT-OF-WAY PLAN STA. 10+00 to STA. 15+50</p>	<p>JERICHO CENTER MULTIMODAL CONNECTION SEGMENTS 3 AND 4 STP EH12(10)</p>		<p>SHEET: 3</p>
	<p>Lamoureux & Dickinson Consulting Engineers, Inc. 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDengineering.com</p>	<p>L&D PROJECT NUMBER: 12089 CHECKED BY: RD</p>	<p>PROJ. SHEET #19</p>



GRAPHIC SCALE



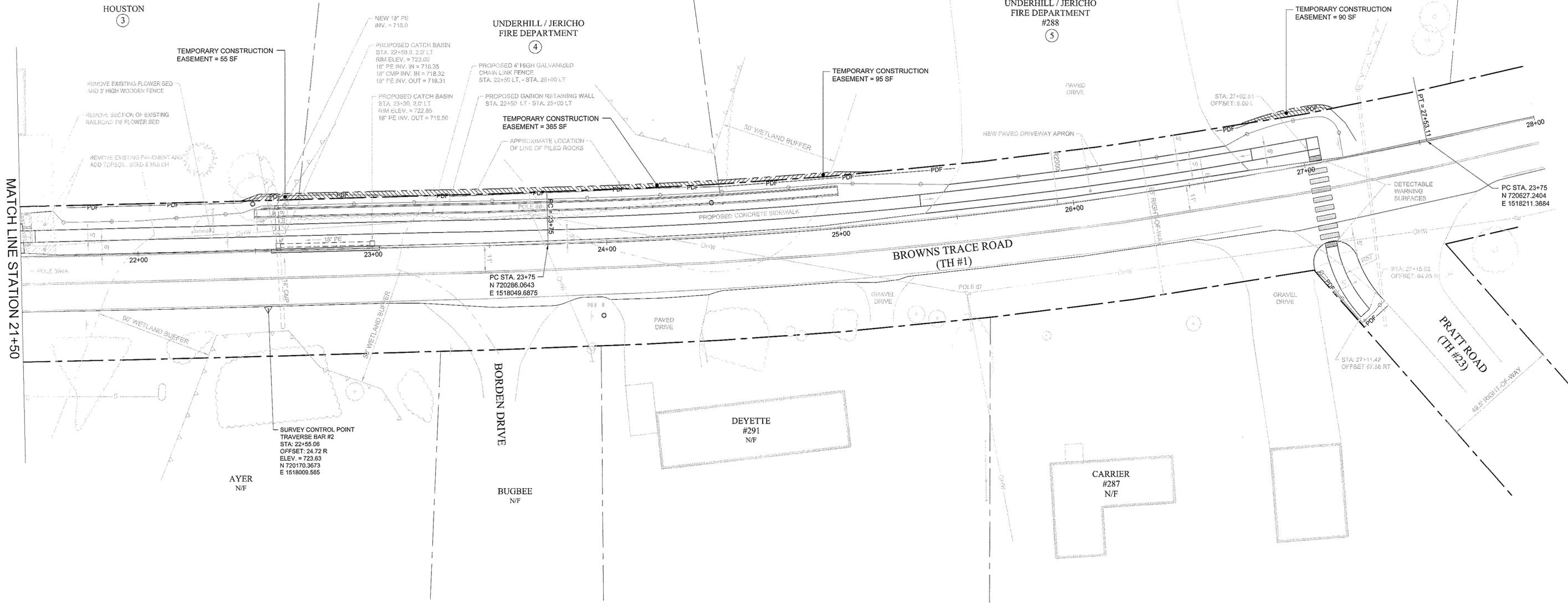
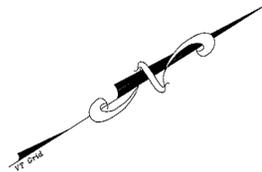
LEGEND

-  SURVEY CONTROL POINT
-  PROPERTY LINE
-  RIGHT-OF-WAY
-  TEMPORARY EASEMENT

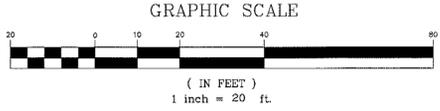
DRAFT RIGHT-OF-WAY PLANS
JULY 2013

DRAFT RIGHT-OF-WAY PLAN STA. 15+50 to STA. 21+50	JERICO CENTER MULTIMODAL CONNECTION SEGMENTS 3 AND 4 STP EH12(10)		SHEET:
	 Lamoureux & Dickinson Consulting Engineers, Inc. 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDEngineering.com	L&D PROJECT NUMBER: 12089 CHECKED BY: RD	4

17-250(12)109-01(12)08-02 ROW.dwg, 02/2013 9:52 AM, 14x11(12)109-0204-R001.dwg



MATCH LINE STATION 21+50



LEGEND

- SURVEY CONTROL POINT
- PROPERTY LINE
- RIGHT-OF-WAY
- TEMPORARY EASEMENT

DRAFT RIGHT-OF-WAY PLANS JULY 2013

DRAFT RIGHT-OF-WAY PLAN STA. 21+50 to STA. 28+00	JERICHO CENTER MULTIMODAL CONNECTION SEGMENTS 3 AND 4 STP EH12(10)	
	Lamoureux & Dickinson Consulting Engineers, Inc. 14 Morse Drive, Essex, VT 05452 802-878-4450 www.LDEngineering.com	L&D PROJECT NUMBER: 12089 CHECKED BY: RD
		SHEET: 5 <small>PROJ. SHEET #21</small>

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