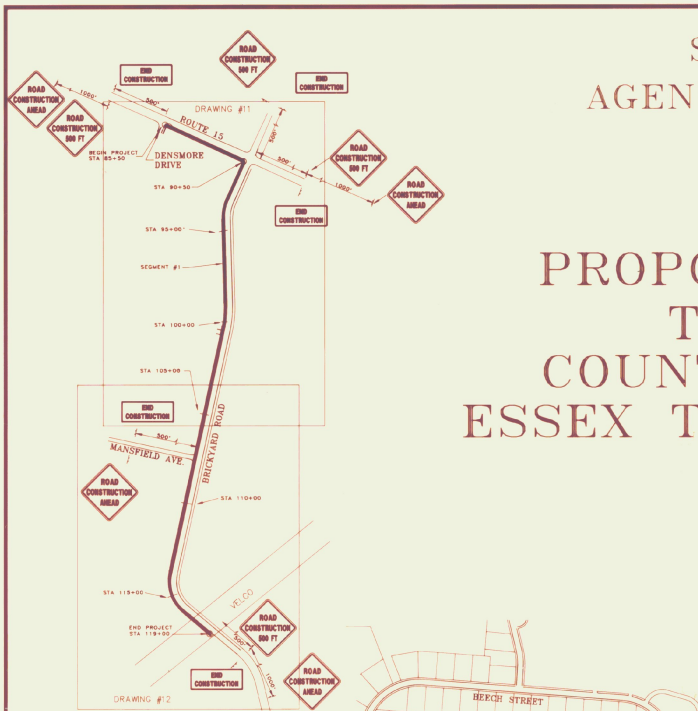
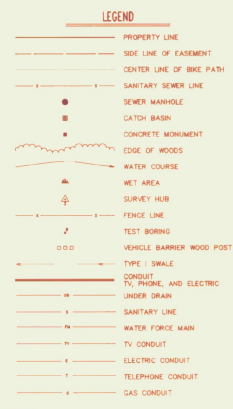
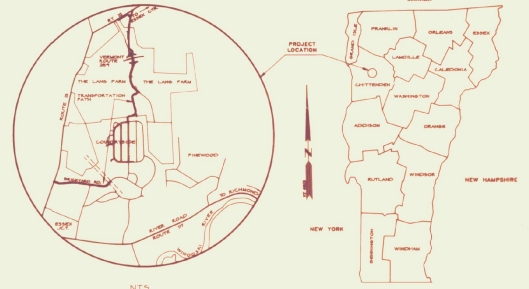


STATE OF VERMONT  
AGENCY OF TRANSPORTATION

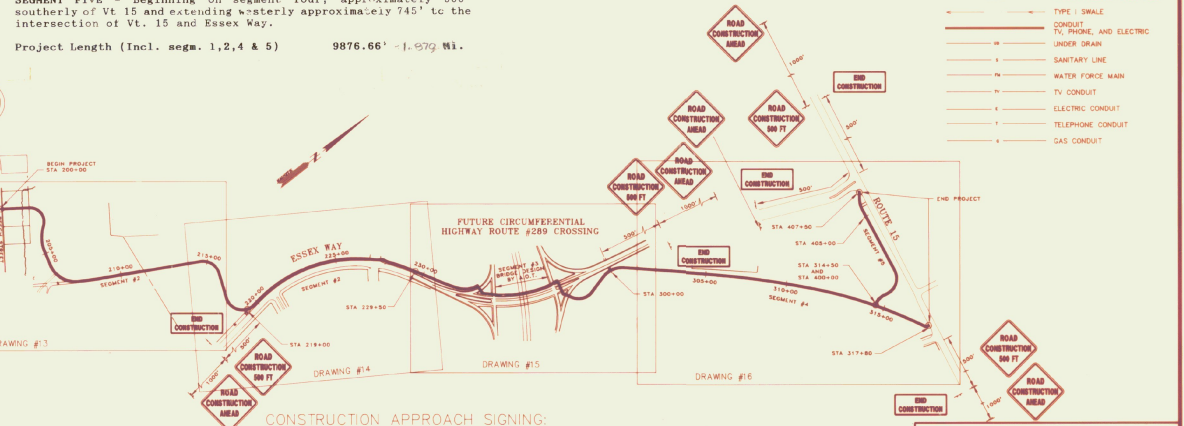


PROPOSED IMPROVEMENT  
TOWN OF ESSEX  
COUNTY OF CHITTENDEN  
ESSEX TRANSPORTATION PATH



SEGMENT ONE - Beginning at a point on the northeast corner of the intersection of Denmore Drive and Vt. route 15 and extending easterly to the intersection of Vt. 15 and Brickyard Road. Thence extending southeasterly along the west side of Brickyard Road, a total of 3350', to the VELCO crossing over Brickyard Road.  
 SEGMENT TWO - Beginning at a point on Beech St. and extending northeasterly approximately 3456.66' to the Essex Way bridge over Route 289.  
 SEGMENT THREE - The Essex Way bridge crossing over route 289 of approximately 322' (by A.O.P., not included in project).  
 SEGMENT FOUR - Beginning at the north end of the Essex Way bridge over Vt. 289 and extending northeasterly approximately 2000' to Vt. route 15.  
 SEGMENT FIVE - beginning on segment four, approximately 300' southerly of Vt 15 and extending westerly approximately 745' to the intersection of Vt. 15 and Essex Way.

Project Length (Incl. segm. 1, 2, 4 & 5) 9876.66' - 1.879 Mi.



INDEX OF SHEETS

1. TITLE SHEET
2. TYPICALS
3. TYPICALS AND DETAILS
4. QUANTITY SHEETS
5. QUANTITY SHEETS
6. ITEM DETAIL AND DRAINAGE SHEET
7. EARTHWORKS SHEET
8. EARTHWORKS SHEET
9. EARTHWORKS SHEET
10. PLAN AND PROFILE SHEET
11. PLAN AND PROFILE SHEET
12. PLAN AND PROFILE SHEET
13. PLAN AND PROFILE SHEET
14. PLAN AND PROFILE SHEET
15. PLAN AND PROFILE SHEET
16. THE SHEET
17. CROSS SECTION SHEET
18. CROSS SECTION SHEET
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30. CROSS SECTION SHEET
31. CROSS SECTION SHEET
32. CROSS SECTION SHEET
33. CROSS SECTION SHEET
34. CROSS SECTION SHEET
35. TRAFFIC SIGN SUMMARY SHEET
36. TRAFFIC SIGN SUMMARY SHEET
37. TRAFFIC SIGN SUMMARY SHEET
38. TRAFFIC SIGN SUMMARY SHEET
39. TRAFFIC SIGN SUMMARY SHEET

CONTRACTOR *Do Bois Const Co*  
 Resident Engineer *E. Orvis*  
 CONSTRUCTION BEGAN *8/16/82*  
 CONSTRUCTION COMPLETED *12/15/83*  
 RECORD PLANS BY *J Lavoie*

I hereby certify that all the construction required by this set of drawings has been accomplished as indicated herein.

By *[Signature]* Resident Engineer  
 Date *12/15/83*

NOTE: any further information concerning final quantities, amounts or other details relative to this project may be found on microfilm in Central Files.

41. C-11 BIT CONCRETE CURB	10-25-85 R	57B, F-4 CHAIN LINK FENCE (TYPE II)	05-19-79 R
*42. F-2 CHAIN LINK FENCE (TYPE I)	02-01-79 R		
43. D-4 STEEL PIPE END SECT.	10-30-85 R		
44. D-8 CONCRETE DROP INLET	12-6-71		
45. D-9 CONCRETE DROP INLET	12-6-71		
46. D-11 CAST IRON GRATES	8-24-81 R		
47. E-100 CONSTRUCTION APPROACH SIGNS	5-26-89 R		
48. F-101 CONSTRUCTION SIGN DETAILS	10-30-87		
49. E-110 MAJOR MAINT. OPERATION LANE CLOSURE	5-1-88 R		
50. E-120 STANDARD SIGN PLACEMENT EXPRESSWAY	6-21-89 R		
51. E-121 STANDARD SIGN PLACEMENT CONVENTIONAL ROAD	1-23-89		
52. E-143 REGULATORY SIGN DETAILS	10-30-87		
53. E-151 WARNING SIGN DETAILS	10-30-87		
54. E-152 WARNING SIGN DETAILS	10-30-87		
55. E-191 PAVEMENT MARKING DETAILS	1-23-89 R		
56. F-3 CHAIN LINK FENCE (TYPE III)	2-01-79 R		
57. T-1 TEMPORARY EROSION CONTROL DETAILS	12-7-76 R		
57A. T-2 TEMPORARY EROSION CONTROL DETAILS	7-5-72		

CONSTRUCTION APPROACH SIGNING:  
 CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH THIS PLAN, THE VERMONT STATE STANDARD SHEET E-100 AND CHAPTER 6 OF THE MUTCD

Poor Quality Poor Quality

THESE PLANS ARE ISSUED TO THE ENGINEER CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED OUT IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATA. ALL CHANGES TO THE FEDERAL HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS AND SIGN DETAILS, REGULATIONS AND SPECIAL PROVISIONS AS INCORPORATED IN THESE PLANS.

LAMOUREUX & STONE  
 14 Morse Drive  
 Essex Junction, Vermont 05452  
 (802) 878-4400  
 Consulting Engineers Inc.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD

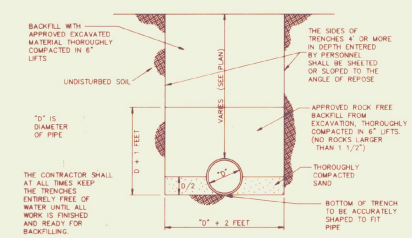
APPROVED *[Signature]* DATE *5/1/82*  
 (Acting) CHIEF OF ENGINEERING

DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_  
 DIVISION ADMINISTRATOR

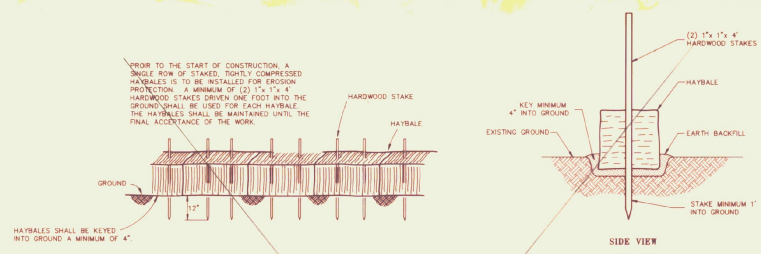
PROJECT ESSEX # *EW-MEIKE(15)*  
 SHEET 1 OF 57 SHEETS





TYPICAL STORM TRENCH

NTS

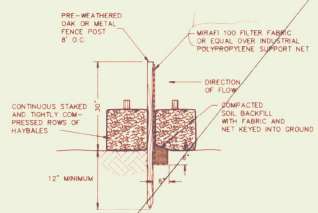


HAYBALE DAM EROSION CONTROL BARRIER

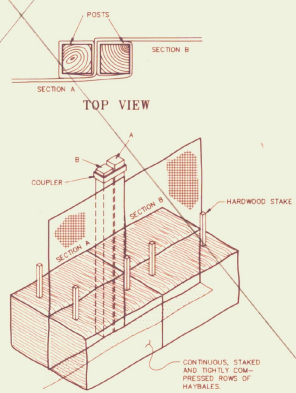
NTS

SEE STANDARDS T1 & T2

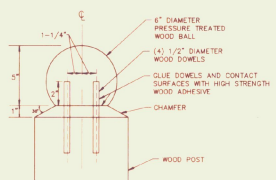
NOTE:  
TEMPORARY FENCE TO BE INSTALLED AND MAINTAINED BY THE CONTRACTOR TO CONTROL EROSION AS ORDERED BY THE ENGINEER OR SHOWN ON THE PLANS. USE ONLY MANUAL METHODS OF INSTALLATION AND CLEANING WITHIN METHOD AND BUFFER ZONE.



INSTALLATION DETAIL



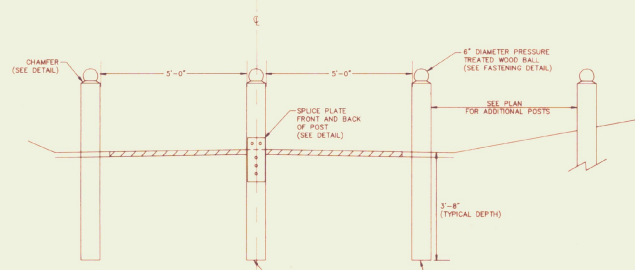
JOINING SECTIONS OF FENCE



WOOD BALL FASTENING DETAIL

TEMPORARY EROSION CONTROL FENCE

NTS



ADDITIONAL SPECIFICATIONS

APPLY TWO COATS OF OIL BASE STAIN TO POSTS WHEN COMPLETED AND WOOD PRESERVATIVE HAS DRIED FOR A MINIMUM OF THREE MONTHS. POSTS SHALL BE A MINIMUM OF 1.5' OFF OF A CURBED ROAD AND 10' OFF OF ANY OTHER ROAD.

VEHICLE BARRIER POSTS

GENERAL CONSTRUCTION SPECIFICATIONS

1. ALL WORK AND MATERIALS SHALL BE APPROVED BY AND IN ACCORDANCE WITH THE LATEST VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE TOWN OF ESSEX AND VILLAGE OF ESSEX LANGRISH REQUIREMENTS, AND THE PLANS.
2. LAMOREUX AND STORE WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT ARISE FROM THE FAILURE OF THE CONTRACTOR TO FOLLOW THE PLANS, SPECIFICATIONS AND THE DESIGN INTENT THAT THE PLANS CONVEY.
3. THE CONTRACTOR SHALL CONTACT ALL UTILITIES BEFORE EXCAVATION TO VERIFY THE LOCATION OF ANY UNDERGROUND LINES. THE CONTRACTOR SHALL NOTIFY "DUGSAFE" AT 1-800-225-4977 PRIOR TO ANY EXCAVATION.
4. UTILITIES INFORMATION SHOWN HEREON WERE OBTAINED FROM BEST AVAILABLE SOURCE 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 NEAREST SOURCE THROUGH COORDINATION WITH UTILITY OWNER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING VEGETATION, PAVEMENT AND STRUCTURES NECESSARY TO CONSTRUCT THIS PROJECT UNLESS OTHERWISE NOTED ON THE PLANS. THE CONTRACTOR SHALL REMOVE ALL TRASH FROM SITE UPON COMPLETION OF CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ENSURING THAT THE DUST CREATED AS A RESULT OF CONSTRUCTION DOES NOT CREATE A HAZARD OR A SAFETY HAZARD, WHERE AND WHEN DEEMED NECESSARY BY THE VERMONT AGENCY OF TRANSPORTATION, THE CONTRACTOR SHALL BE APPROVED TO WET SECTIONS OF THE CONSTRUCTION AREA WITH WATER OR APPLY CALCIUM CHLORIDE OR SWEEP ASPHALT ROADS WITH A POWER BROOM AS DUST CONTROL.
7. ANY SURFACES, LINES, OR STRUCTURES WHICH HAVE BEEN DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THE CONDITION AT LEAST EQUAL TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.
8. THE FINISH GRADE SLOPES SHALL NOT BE STEEPER THAN 1 ON 1 OR AS SHOWN ON THE PLANS. THE FINISH GRADE SLOPES SHALL BE IMMEDIATELY GRADED AND MALDED.
9. THE EROSION CONTROL METHODS USED DURING CONSTRUCTION OF THE PATH SHALL PROCEED IN THE FOLLOWING SEQUENCE:
  - (A) THE CONTRACTOR SHALL INSTALL AND MAINTAIN HAYBALE DAMS AS SHOWN ON THE PLANS AND AS ORDERED BY THE VERMONT AGENCY OF TRANSPORTATION. THE DAMS SHALL BE MAINTAINED AND REPAIRED AFTER EVERY DAM ALL UNITS. THE NEW IMPROVEMENTS ARE PAVED AND ALL DISTURBED AREAS HAVE BEEN GRASSSED. THE REPAIR OF THE DAMS WILL INCLUDE REMOVING ANY SEDIMENTATION. THE SEDIMENT MAY BE PLACED AS FILL IN THE LOW AREAS.
  - (B) THE TOPSOIL SHALL BE REMOVED FROM THE AREAS TO BE GRADED AND STOCKPILED. HAYBALES SHALL BE PLACED AND STAKED CONTINUOUSLY AROUND THE BOTTOM OF THE PILES.
  - (C) THE CONTRACTOR SHALL ENCLOSE THE TRUNKS OF LARGE TREES NEAR THE NEW CONSTRUCTION WITH SNOW FENCING TO PROTECT THE TREES FROM INJURY BY EQUIPMENT.
  - (D) THE CONTRACTOR WILL TOPSOIL, SEED, AND MULCH THE DISTURBED AREAS AS SOON AS POSSIBLE FOLLOWING COMPLETION OF ADJACENT CONSTRUCTION.
  - (E) AT COMPLETION OF GRADING, THE SLOPES, DITCHES, AND ALL DISTURBED AREAS SHALL BE SMOOTH AND FREE OF POCKETS WITH SUFFICIENT SLOPE TO ENSURE DRAINAGE.

URBAN MIX GRASS SEED		
% BY WEIGHT	LIBS. LIVE SEED PER ACRE	TYPE OF SEED
42.5	51.0	Creeping Red Fescue
10.0	12.0	Perennial Ryegrass
47.5	51.0	Kentucky Bluegrass
0.0	11.0	Annual Ryegrass
100	100	# LIVE SEED PER ACRE

LANDSCAPING SPECIFICATIONS

1. ALL DISTURBED AREAS SHALL BE STABILIZED WITH SEEDING AND MULCHING PRIOR TO OCTOBER 1 OF EACH YEAR. ANY DISTURBED AREAS OUTSIDE THE PATH SHALL BE IMMEDIATELY SEEDED AND MULCHED WITHIN 15 DAYS. ANY WORK DEFERRED AFTER OCTOBER 1 OF EACH YEAR SHALL BE STABILIZED WITH MULCH AND NETTING SUPPORT TO PREVENT EROSION AND SHALL BE IMMEDIATELY SEEDED AND MULCHED AS SOON AS WEATHER PERMITS IN THE SPRING. THESE DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 4\"/>
2. SEED MIXTURE IN ALL AREAS SHALL BE URBAN MIX CONFORMING TO THE TABLE SHOWN BELOW. FOR SEEDING BETWEEN SEPTEMBER AND OCTOBER, WINTER RYE SHALL BE USED AT AN APPLICATION RATE OF 80 POUNDS PER ACRE.
3. FERTILIZER SHALL BE STANDARD COMMERCIAL GRADE CONFORMING TO THE STATE FERTILIZER LAW AND TO THE STANDARDS OF THE ASSOCIATION OF FERTILIZER SPECIAL AGRICULTURAL CHEMISTS. DRY FERTILIZER IF USED SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. LIQUID FERTILIZERS IF USED, SHALL BE APPLIED IN A 1-2-1 RATIO WITH THE MINIMUM RATE INCLUDE 100 POUNDS OF NITROGEN, 200 POUNDS OF PHOSPHATE, AND 100 POUNDS OF POTASH PER ACRE.
4. LIMESTONE SHALL CONFORM TO ALL STATE AND FEDERAL REGULATIONS AND TO THE STANDARDS OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. THE LIMESTONE SHALL BE APPLIED AT A RATE OF TWO TONS PER ACRE AS DIRECTED.

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.4% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

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

FERTILIZER: FORMULA 10-20-20, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE.

AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

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

SEED, FERTILIZER, LIMESTONE, AND MULCH TO BE APPLIED PER THE ABOVE FORMULA, TO ALL AREAS WHERE SOIL IS DISTURBED.

LEGEND

description	date	by
REVISED PER FURTHER STATE REVIEW	8/24/09	LAL
REVISED PER FURTHER STATE REVIEW	8/25/09	LAL
REVISED PER STATE REVIEW	8/29/09	LAL

STATE OF VERMONT  
AGENCY OF TRANSPORTATION

TRANSPORTATION PATH  
IN  
ESSEX AND ESSEX JUNCTION  
VERMONT

TYPICALS AND DETAILS

LAMOREUX & STONE  
14 Morse Drive  
Essex Junction, Vermont 05452  
(802) 878-4450  
Consulting Engineers Inc.



survey	scale
---	AS NOTED
design	date
---	7-10-09
drawn	proj. no.
ED	9129
checked	dep. no.
LAL	
project manager	
LAL	3 OF 57









# EARTHWORKS

STATE OF VERMONT  
AGENCY OF TRANSPORTATION

GRADES														GRADES														SUMMARY AND BALANCES									
V. C. GRADE	STATION	ELEVATION		CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT		GRAVEL SUBBASE		V. C. GRADE	STATION	ELEVATION		CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT		GRAVEL SUBBASE		STATION TO STATION	TOTAL EXCAV EARTH & ROCK	ROCK EXCAV CUBIC YARDS	EMBANKMENT CUBIC YARDS	EXCESSES		ACCUMULATIVE EXCESSES			
		ON TANGENT	ON CURVES			AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.			AREA	CU. YDS.			AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.					AREA	CU. YDS.	AREA	CU. YDS.	CUT	FILL
	200+50				50	24	22					25	23		219+00				55	60					25	51											
	201+00				50	28	48					25	48		219+50				50	50					30	57											
	201+50				50	13	38					27	54		220+00				50	26					32	59											
	202+00				50	48	56					29	51		220+50				50	29					32	59											
	202+50				50	45	86					26	51		221+00				50	24			0	0	32	59											
	203+00				50	30	69					30	54		221+50				50	26			0.7	0.6	32	59											
	203+50				50	42	67					27	53		222+00				50	25			1.2	1.0	31	58											
	204+00				50	39	73			0		27	50		222+50				50	26			0	1.1	28	55											
	204+50				50	19	52			0	0	31	56		223+00				50	29				0	29	53											
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	206+00				50	44	45			0	1	24	48		224+50				50	28					29	54											
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CARRIED FORWARD COLUMN FOOTINGS						1782	CARRIED FORWARD COLUMN FOOTINGS						313	1613	CARRIED FORWARD COLUMN FOOTINGS						1353	CARRIED FORWARD COLUMN FOOTINGS						3.5	1502	PROJECT NAME		PROJECT NUMBER		SHEET 8 OF 57 SHEETS			

Poor Quality

D-2 JAN 85

# EARTHWORKS

**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

V. C. GRADE	STATION	GRADES ELEVATION		CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT		GRAVEL SUBBASE		V. C. GRADE	STATION	GRADES ELEVATION		CORR V. C.	DIST	TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT		GRAVEL SUBBASE		STATION TO STATION	TOTAL EXCAVATION EARTH & ROCK		SUMMARY AND BALANCES		EXCESSES		ACCUMULATIVE EXCESSES		REMARKS										
		ON TANGENT	ON CURVES			AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.			AREA	CU. YDS.			AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.		AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.		CUT	FILL	CUT	FILL						
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	305+50				90	7	13					15	28		405+50					90	23	34				28	52																				
	306+00				90	7	12					15	29		406+00					90	35	66				28	48																				
	306+50				90	6	11					16	30		406+50					90	36	57				24	46																				
	307+00				90	6	8					16	29		407+00					90	26	41				26	50																				
	307+50				90	3	3					15	28		407+50					90	18	33				28	52																				
	308+00				90	0	1					15	28							90	0					28																					
	308+50				90	1	4					15	28							90	35	66				28	48																				
	309+00				90	3	6					15	28							90	36	57				24	46																				
	310+00				90	2	5					15	28							90	26	41				26	50																				
	310+50				90	3	7					15	28							90	18	38				28	52																				
	311+00				90	4	7					15	28							90	23	34				28	52																				
	311+50				90	3	8					15	29							90	18	33				28	52																				
	312+00				90	6	6					16	30							90	23	34				28	52																				
	312+50				90	0				0		16	30							90	0					0																					
CARRIED FORWARD						495	CARRIED FORWARD						196	CARRIED FORWARD						1090	CARRIED FORWARD						686	CARRIED FORWARD						557	CARRIED FORWARD						1094						

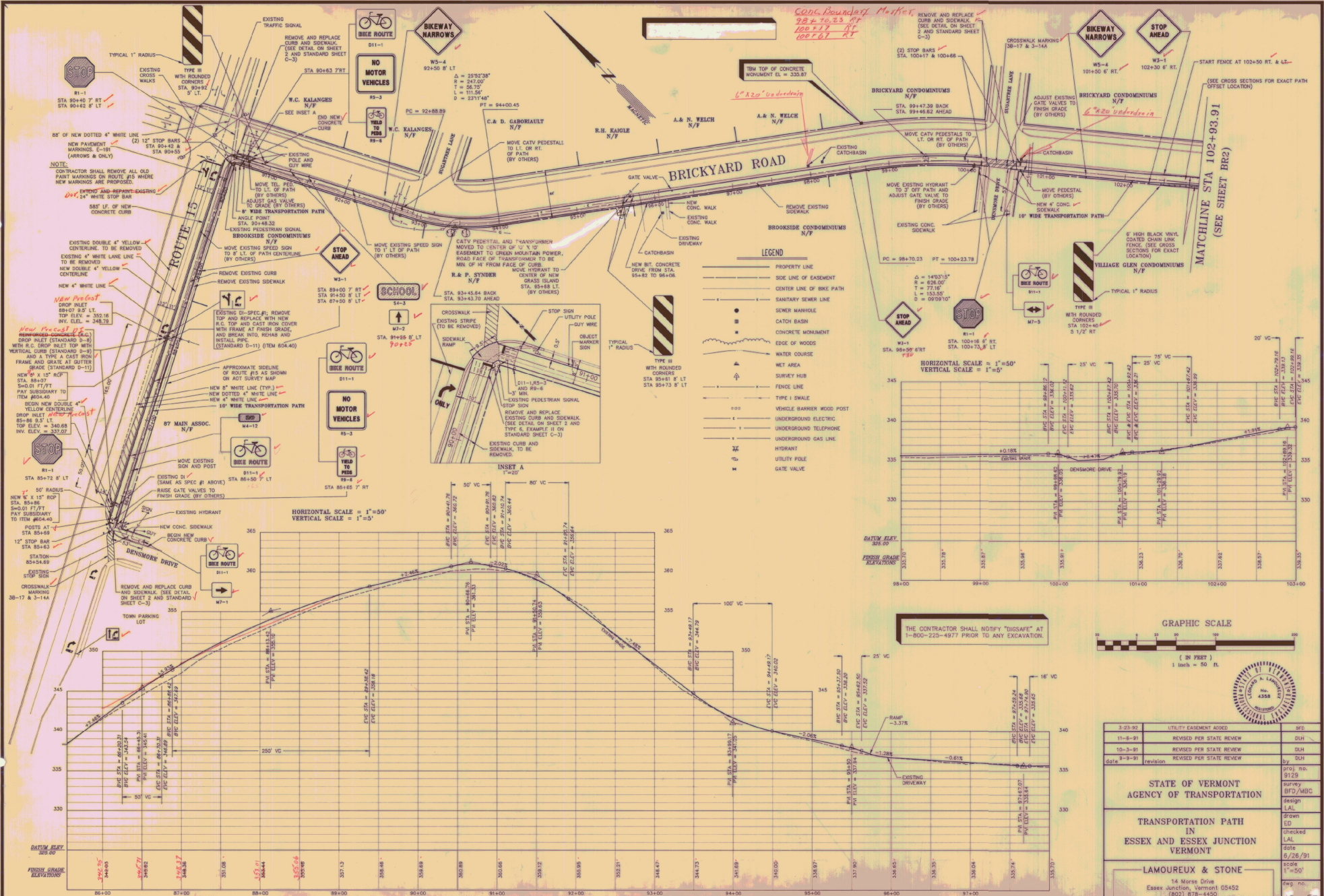
SUMMARY BY COLUMNS				REMARKS		
SHEET NO.	COL. NO.	EXCAVATION	EMBANKMENT			
		TOTAL CU YDS. ROCK CU YDS.	CU YDS. CUBIC YARDS			
7	1	1278	12	EARTH AND ROCK EXCAVATION 668'		
	2	1087	0	SOLID ROCK EXCAVATION		
	1	1782	0	EARTH EXCAVATION 668'		
8	2	1353	313	PLANIMETERED FILL 1082		
	1	495	196	LESS FACTORED SOLID ROCK		
	2	686	557	LESS DISPLACEMENT OF ANY LARGE STRUCTURES		
TOTALS				668	1082	NET PLANIMETERED FILL 1082
						FACTOR (+15%) 162
						PLANIMETERED FILL INCLUDING FACTOR 1244
						MATERIALS AVAILABLE FOR FILLS
						EARTH EXCAVATION 668'
						CHANNEL EXCAVATION
						UNDERDRAIN EXCAVATION
						STRUCTURE EXCAVATION 0
						TOTAL MATERIAL AVAILABLE FOR FILL 668'
						TOTAL FILL INCLUDING FACTOR 1244
						TOTAL MATERIAL FOR FILL 668'
						BORROW (SAND) 30
						EXCESS EXCAVATION 5477

Poor Quality









*Cont. Boundary Marker  
92 + 10.23 RT  
100 + 1.7 RT  
100 + 6.1 RT*

REMOVE AND REPLACE CURB AND SIDEWALK (SEE DETAIL ON SHEET 2 AND STANDARD SHEET C-3)

BRICKYARD CONDOMINIUMS N/F  
STA. 99+72.38 BACK  
STA. 99+45.82 AHEAD

BROOKSIDE CONDOMINIUMS N/F

CROSSWALK MARKINGS 38-17 & 3-14A

BRICKYARD CONDOMINIUMS N/F  
ADJUST EXISTING GATE VALVES TO FINISH GRADE (BY OTHERS)

VILLAGE GLEN CONDOMINIUMS N/F

START FENCE AT 102+50 RT. & L- (SEE CROSS SECTIONS FOR EXACT PATH OFFSET LOCATION)

MATCHLINE STA 102+93.91 (SEE SHEET BR2)

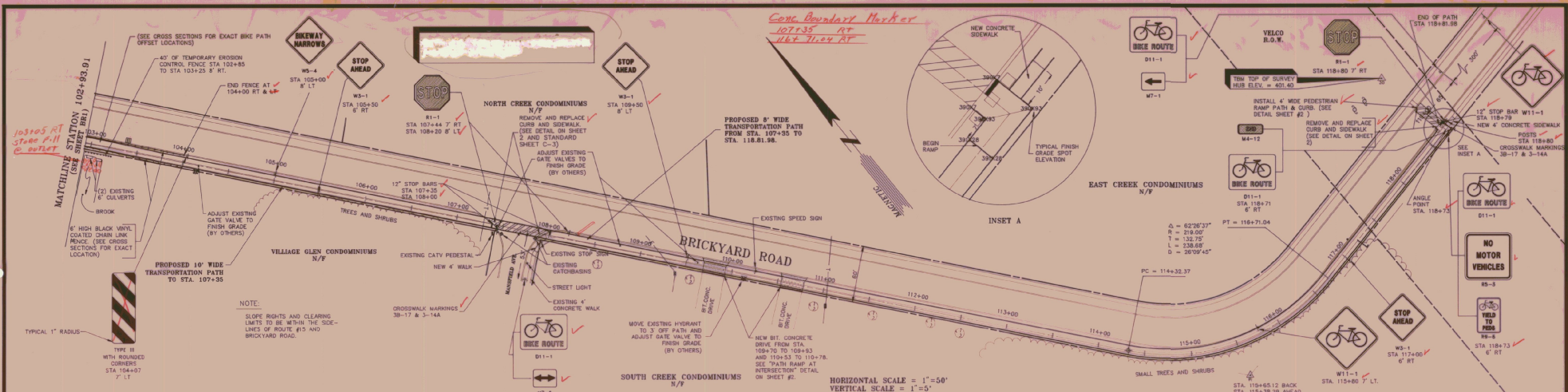
**LEGEND**

- PROPERTY LINE
- SIDE LINE OF EASEMENT
- CENTER LINE OF BIKE PATH
- SANITARY SEWER LINE
- SOWER MANHOLE
- CATCH BASIN
- CONCRETE MONUMENT
- EDGE OF WOODS
- WATER COURSE
- WET AREA
- SURVEY HUB
- FENCE LINE
- TYPE I SWALE
- VEHICLE BARRIER WOOD POST
- UNDERGROUND ELECTRIC
- UNDERGROUND TELEPHONE
- UNDERGROUND GAS LINE
- HYDRANT
- UTILITY POLE
- GATE VALVE

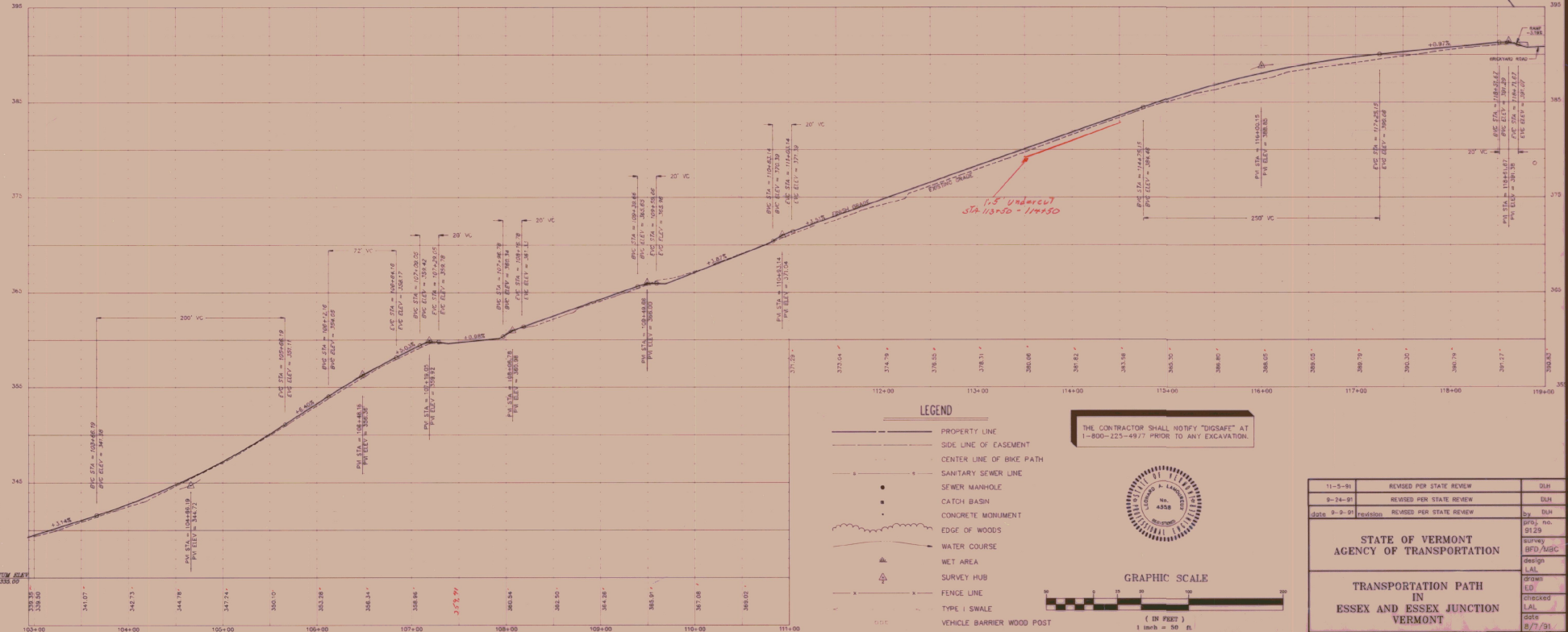
THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-800-225-4977 PRIOR TO ANY EXCAVATION.



3-23-99	UTILITY EASEMENT ADDED	WFO
11-8-91	REVISED PER STATE REVIEW	DLH
10-3-91	REVISED PER STATE REVIEW	DLH
9-9-91	REVISED PER STATE REVIEW	DLH
<b>STATE OF VERMONT AGENCY OF TRANSPORTATION</b>		
<b>TRANSPORTATION PATH IN ESSEX AND ESSEX JUNCTION VERMONT</b>		
<b>LAMOREUX &amp; STONE</b>		
14 Morse Drive Essex Junction, Vermont 05452 (802) 878-4450		
proj. no.	9129	by
drawn	BFD/ABC	ED
checked	LAL	DLH
date	8/28/91	scale
		1"=50'
dwg. no.		



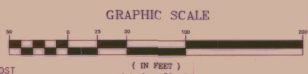
HORIZONTAL SCALE = 1"=50'  
VERTICAL SCALE = 1"=5'



**LEGEND**

- PROPERTY LINE
- SIDE LINE OF EASEMENT
- CENTER LINE OF BIKE PATH
- SANITARY SEWER LINE
- SEWER MANHOLE
- CATCH BASIN
- CONCRETE MONUMENT
- EDGE OF WOODS
- WATER COURSE
- WET AREA
- SURVEY HUB
- FENCE LINE
- TYPE I SWALE
- VEHICLE BARRIER WOOD POST
- SIGN
- HYDRANT
- GATE VALVE

THE CONTRACTOR SHALL NOTIFY "DISAFT" AT 1-800-225-4977 PRIOR TO ANY EXCAVATION.



11-5-91	REVISED PER STATE REVIEW	DLH
9-24-91	REVISED PER STATE REVIEW	DLH
date 9-3-91	revision	BY DLH

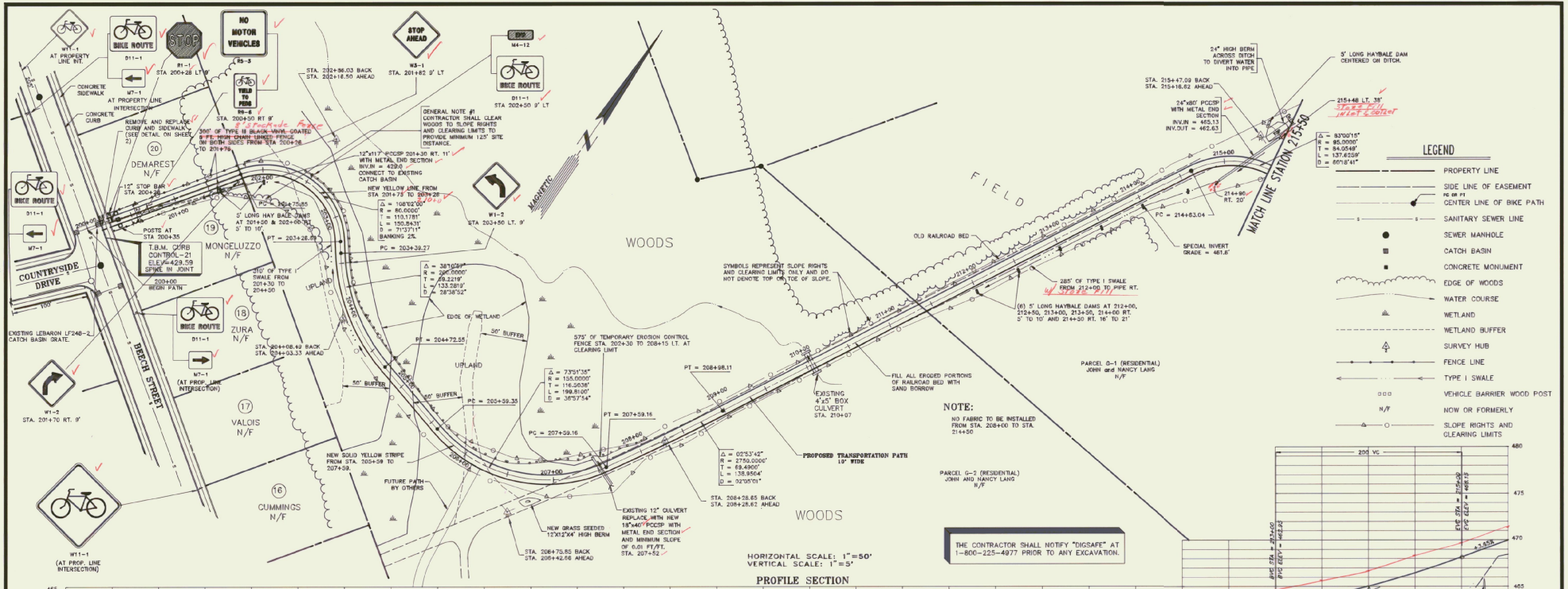
**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

**TRANSPORTATION PATH  
IN  
ESSEX AND ESSEX JUNCTION  
VERMONT**

**LAMOUREUX & STONE**  
14 Morse Drive  
Essex Junction, Vermont 05452  
(802) 878-4450

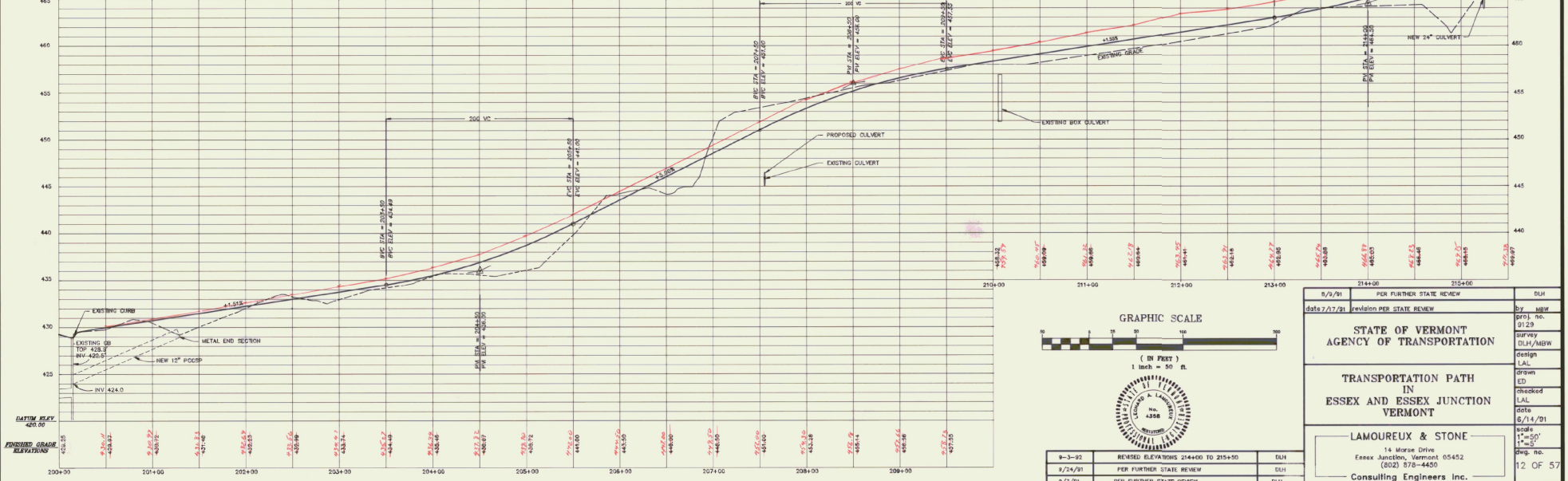
Consulting Engineers Inc.

Checked: JAL  
Date: 8/7/91  
Scale: 1"=50'  
Tag no: 110597



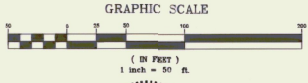
HORIZONTAL SCALE: 1" = 50'  
 VERTICAL SCALE: 1" = 3'

PROFILE SECTION



- LEGEND**
- PROPERTY LINE
  - SIDE LINE OF EASEMENT
  - CENTER LINE OF BIKE PATH
  - SANITARY SEWER LINE
  - SEWER MANHOLE
  - CATCH BASIN
  - CONCRETE MONUMENT
  - ~ EDGE OF WOODS
  - ~ WATER COURSE
  - ~ WETLAND
  - ~ WETLAND BUFFER
  - △ SURVEY HUB
  - FENCE LINE
  - TYPE I SWALE
  - VEHICLE BARRIER WOOD POST
  - N/F NOW OR FORMERLY
  - SLOPE RIGHTS AND CLEARING LIMITS

NOTE:  
 NO FABRIC TO BE INSTALLED FROM STA. 208+00 TO STA. 214+50

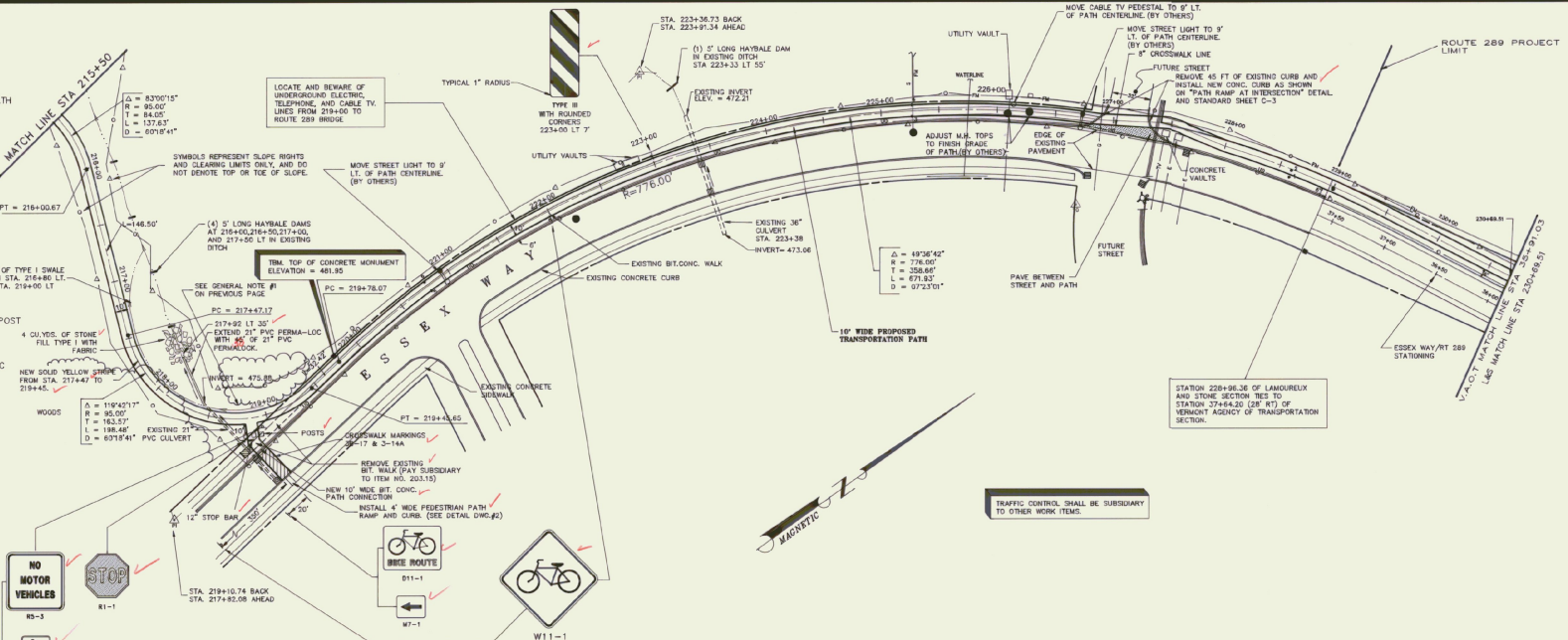


8/9/91	PER FURTHER STATE REVIEW	DLH
date 7/17/91	revision PER STATE REVIEW	by jlgbr
STATE OF VERMONT AGENCY OF TRANSPORTATION		
TRANSPORTATION PATH IN ESSEX AND ESSEX JUNCTION VERMONT		
LAMOUREUX & STONE		
14 Morse Drive Essex Junction, Vermont 05452 (802) 578-4400		
Consulting Engineers Inc.		
9-3-92	REVISED ELEVATIONS 214+00 TO 215+50	DLH
9/24/91	PER FURTHER STATE REVIEW	DLH
9/3/91	PER FURTHER STATE REVIEW	DLH

**LEGEND**

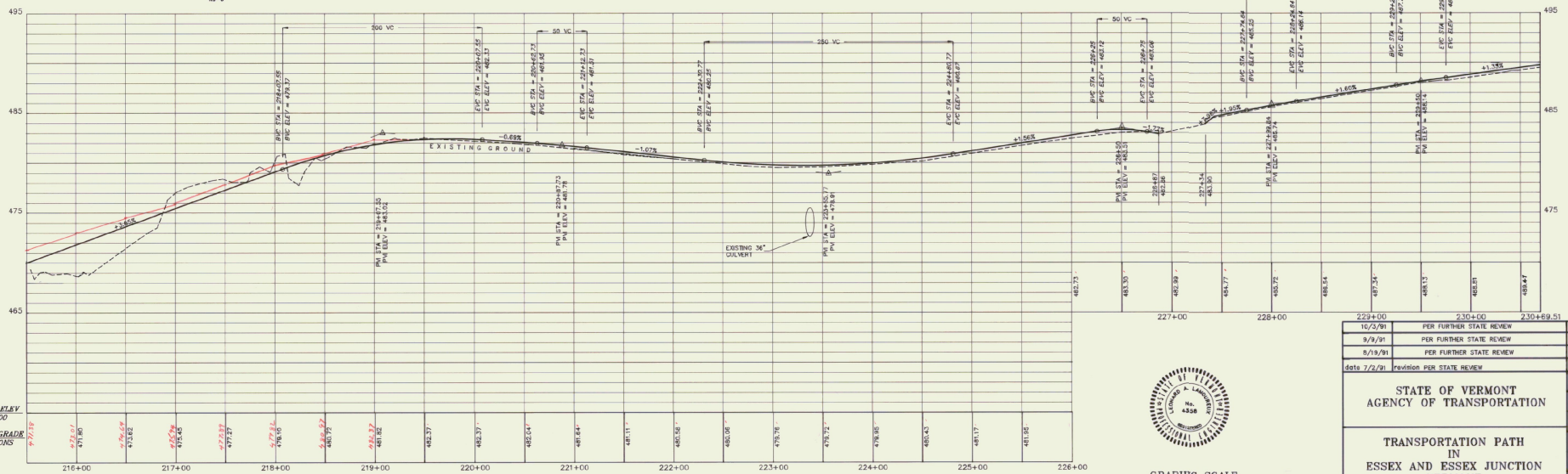
- PROPERTY LINE
- SIDE LINE OF EASEMENT
- CENTER LINE OF BIKE PATH
- SANITARY SEWER LINE
- SEWER MANHOLE
- CATCH BASIN
- CONCRETE MONUMENT
- EDGE OF WOODS
- WATER COURSE
- WET AREA
- SURVEY HUB
- FENCE LINE
- TEST BORING
- VEHICLE BARRIER WOOD POST
- TYPE I SWALE
- CONDUIT TV, PHONE, AND ELECTRIC
- UNDER DRAIN
- SANITARY LINE
- WATER FORCE MAIN
- TV CONDUIT
- ELECTRIC CONDUIT
- TELEPHONE CONDUIT
- GAS CONDUIT
- SLOPE RIGHTS AND CLEARING LIMITS

THE CONTRACTOR SHALL NOTIFY "THREAT" AT 1-800-223-4877 PRIOR TO ANY EXCAVATION.



HORIZONTAL SCALE: 1" = 50'  
VERTICAL SCALE: 1" = 5'

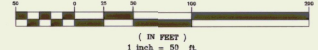
TRAFFIC CONTROL SHALL BE SUBSIDIARY TO OTHER WORK ITEMS.



DATUM ELEV 455.00  
FINISHED GRADE ELEVATIONS



GRAPHIC SCALE



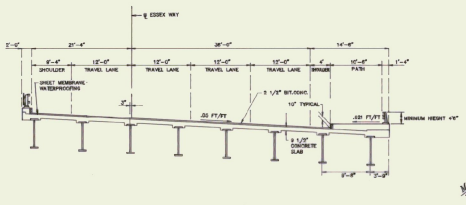
10/2/91	PER FURTHER STATE REVIEW	DLH
9/9/91	PER FURTHER STATE REVIEW	DLH
8/18/91	PER FURTHER STATE REVIEW	DLH
date 7/2/91	revision PER STATE REVIEW	by: MFW

STATE OF VERMONT  
AGENCY OF TRANSPORTATION

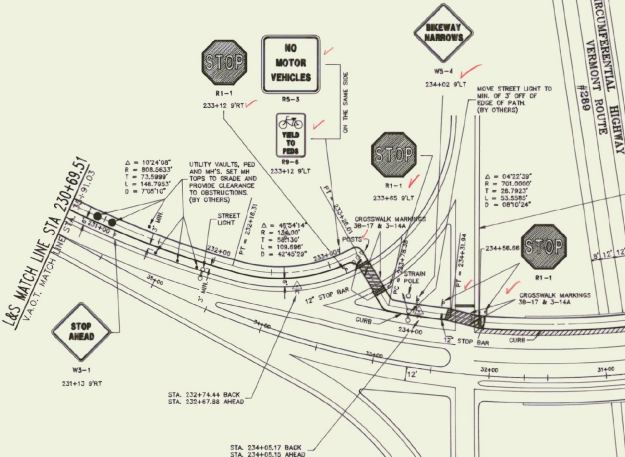
TRANSPORTATION PATH  
IN  
ESSEX AND ESSEX JUNCTION  
VERMONT

LAMOUREUX & STONE  
14 Morse Drive  
Essex Junction, Vermont 05452  
(802) 876-4450

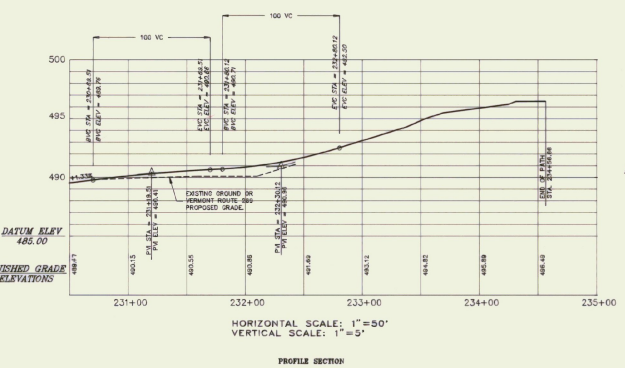
Drawn ED/DH/LAL  
Reviewed LAL  
date 8/3/91  
Scale 1" = 50'  
Proj. no. 89-02  
Survey DLH/MFW  
Design LAL  
8/3/91  
Proj. no. 13 OF 57



PROPOSED TYPICAL SECTION A-A  
NTS

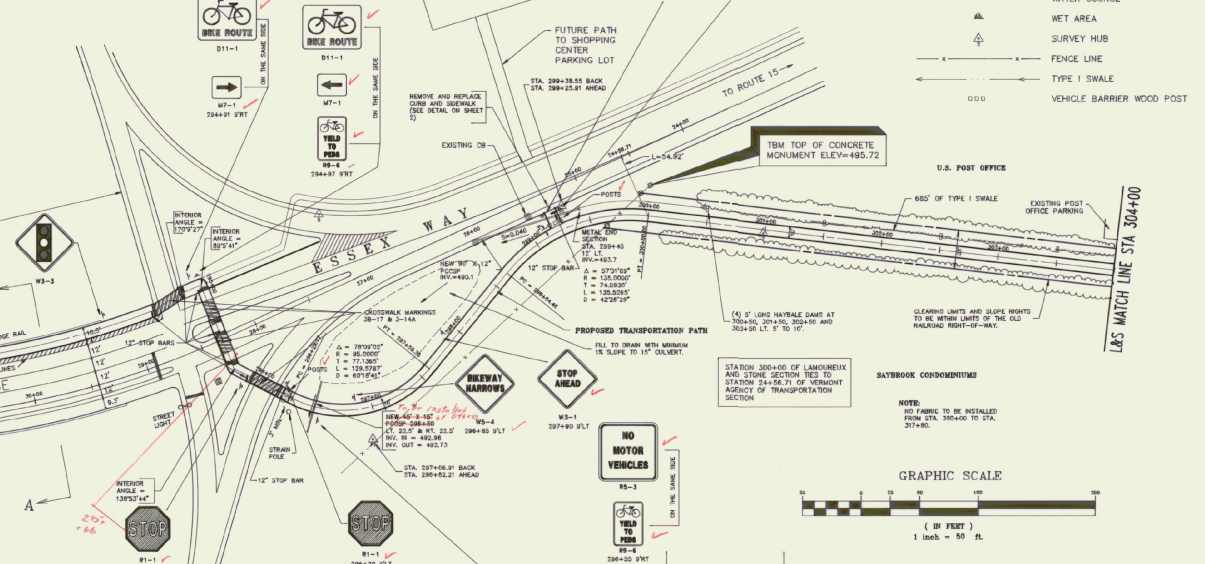


NOTES:  
ALL SLOPES FROM STA. 228+96 TO STA. 299+74 FALL WITHIN THE SLOPE RIGHTS OF THE CIRCUMFERENTIAL HIGHWAY.  
SUBGRADE FROM STA. 230+00 TO STA. 299+50, BRIDGE AND PEDESTRIAN SIGNALS BY A.C.T. ROUTE #289 CONTRACT. REMAINING TRANSPORTATION PATH ITEMS BY THIS CONTRACT.

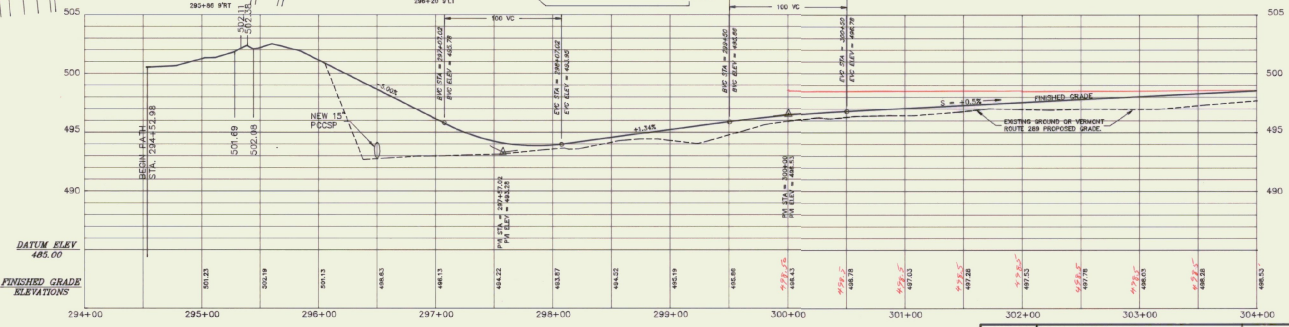
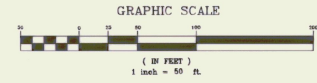


NOTE:  
THIS SECTION TO BE DESIGNED BY VERMONT AGENCY OF TRANSPORTATION.  
THIS IS ONLY A SKETCH DRAWING OF THE PROPOSED TRANSPORTATION PATH ROUTE ACROSS THE BRIDGE.

TRAFFIC CONTROL SHALL BE SUBSIDIARY TO OTHER WORK ITEMS.



- LEGEND
- PROPERTY LINE
  - SIDE LINE OF EASEMENT
  - CENTER LINE OF BIKE PATH
  - SANITARY SEWER LINE
  - SEWER MANHOLE
  - CATCH BASIN
  - CONCRETE MONUMENT
  - EDGE OF WOODS
  - WATER COURSE
  - WET AREA
  - SURVEY HUB
  - FENCE LINE
  - TYPE I SWALE
  - VEHICLE BARRIER WOOD POST

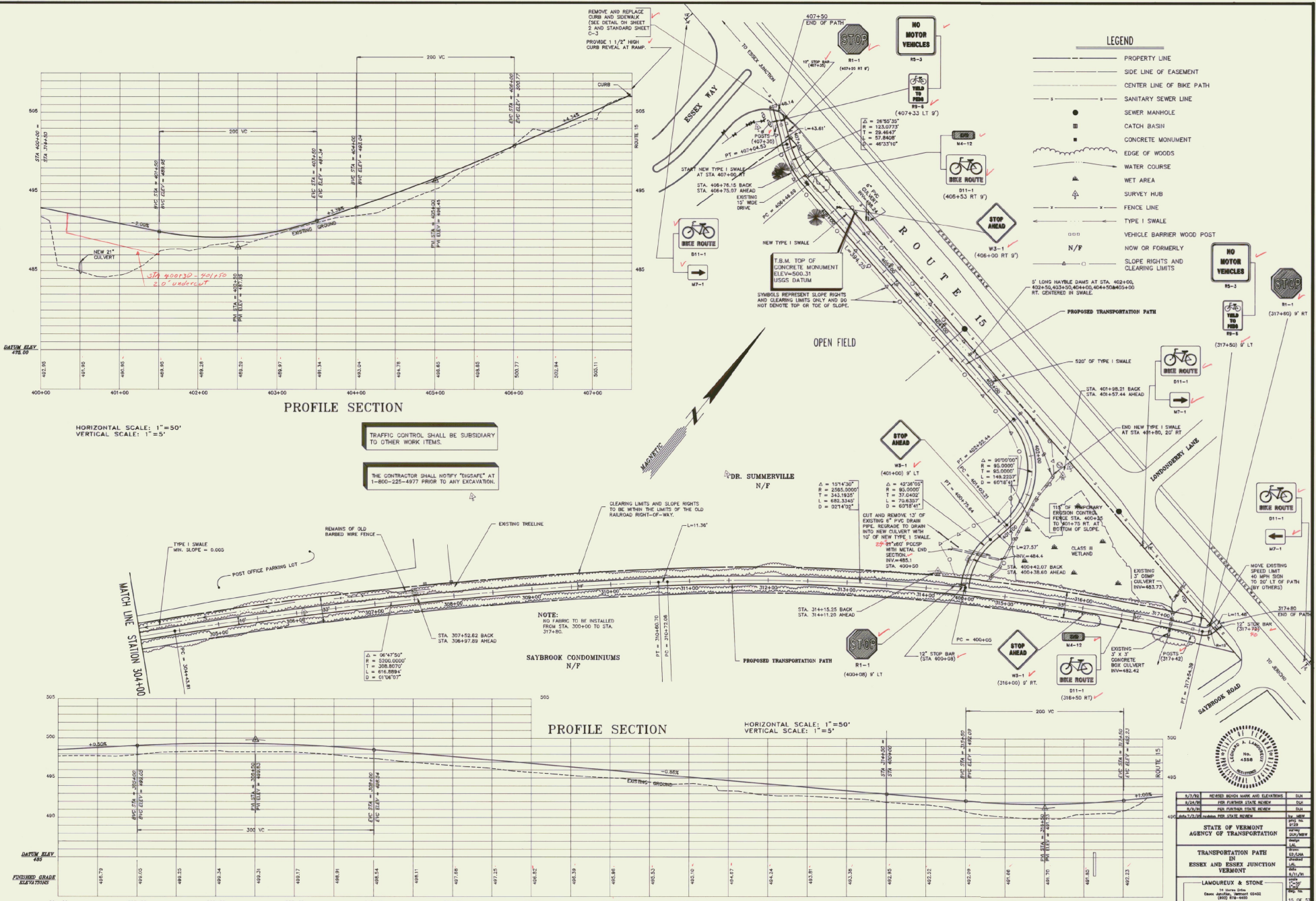


THE CONTRACTOR SHALL NOTIFY "DODDART" AT 1-800-225-4877 PRIOR TO ANY EXCAVATION



date 6/18/01	revision CROSSWALK REVISION PER STATE REVIEW	by: new
STATE OF VERMONT AGENCY OF TRANSPORTATION		BY: No. 9129
TRANSPORTATION PATH IN ESSEX AND ESSEX JUNCTION VERMONT		survey: DLM/MSW
LAMOUREUX & STONE		design: LAL
14 Morris Drive Essex Junction, Vermont 05452 (802) 878-4450		draw: EDJ/DH/LAL
Consulting Engineers Inc.		checked: LAL
		date: 6-14-01
		scale: 1" = 50'
		deg. no.:
		14 OF 57

6-3-01	REVISED REVISION MARK AND ELEVATIONS	DLK
date 10-3-01	revision: PER FURTHER STATE REVIEW	by: SKH
date 9-9-01	revision: PER FURTHER STATE REVIEW	by: DMH
date 7-19-01	revision: PER FURTHER STATE REVIEW	by: DLK



**PROFILE SECTION**

HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'

TRAFFIC CONTROL SHALL BE SUBSIDIARY TO OTHER WORK ITEMS.

THE CONTRACTOR SHALL NOTIFY "EMSAFE" AT 1-800-225-4977 PRIOR TO ANY EXCAVATION.

**PROFILE SECTION**

HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'

**LEGEND**

- PROPERTY LINE
- SIDE LINE OF EASEMENT
- CENTER LINE OF BIKE PATH
- SANITARY SEWER LINE
- SEWER MANHOLE
- CATCH BASIN
- CONCRETE MONUMENT
- EDGE OF WOODS
- WATER COURSE
- WET AREA
- SURVEY HUB
- FENCE LINE
- TYPE I SWALE
- ○ ○ ○ VEHICLE BARRIER WOOD POST
- N/F NOW OR FORMERLY
- SLOPE RIGHTS AND CLEARING LIMITS

STATE OF VERMONT  
AGENCY OF TRANSPORTATION

TRANSPORTATION PATH  
IN  
ESSEX AND ESSEX JUNCTION  
VERMONT

LANOUREUX & STONE  
380 North Street  
Essex Junction, Vermont 05443  
802.885.4800  
Consulting Engineers Inc.

15 OF 27



P.I. STA. 93+45.64 BACK  
STA. 93+43.70 AHEAD



P.T. STA. 94+00.45



P.C. STA. 98+70.23



P.I. STA. 99+47.39 BACK  
STA. 99+46.62 AHEAD



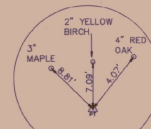
P.C. STA. 114+32.37



P.T. STA. 116+71.04



P.C. STA. 201+75.85



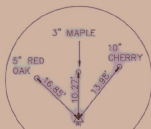
P.T. STA. 203+26.69



P.I. STA. 204+08.49 BACK  
STA. 204+03.33 AHEAD



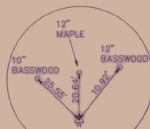
P.C. STA. 205+59.35



P.I. STA. 206+75.85 BACK  
STA. 206+42.66 AHEAD



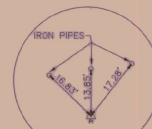
P.C. STA. 207+59.16



P.I. STA. 208+28.65 BACK  
STA. 208+28.62 AHEAD



P.C. STA. 214+63.04



P.I. 215+47.09 BACK  
215+16.62 AHEAD



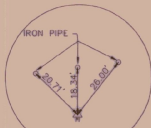
P.I. STA. 219+10.74 BACK  
STA. 217+82.08 AHEAD



P.T. STA. 219+46.65



P.C. STA. 219+78.07



P.I. STA. 223+36.73 BACK  
STA. 223+91.34 AHEAD



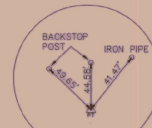
P.C. STA. 233+78.38



P.T. STA. 234+31.94



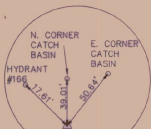
P.I. STA. 297+06.91 BACK  
STA. 296+82.21 AHEAD



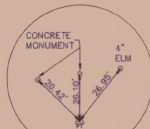
P.T. STA. 297+59.35



P.C. STA. 298+64.46



P.I. STA. 299+38.55 BACK  
STA. 299+25.91 AHEAD



P.T. STA. 300+00.00



P.C. STA. 304+43.81



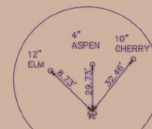
P.I. STA. 307+52.62 BACK  
STA. 306+97.89 AHEAD



P.I. STA. 314+15.25 BACK  
STA. 314+11.20 AHEAD



P.T. STA. 317+54.39



P.C. STA. 400+05.00



P.I. STA. 400+42.07 BACK  
STA. 400+38.80 AHEAD



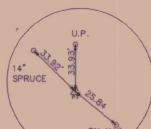
P.I. STA. 401+98.21 BACK  
STA. 401+57.44 AHEAD



P.T. STA. 402+52.44



P.C. STA. 406+48.69

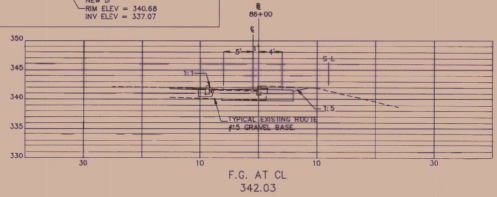


P.T. STA. 407+04.53

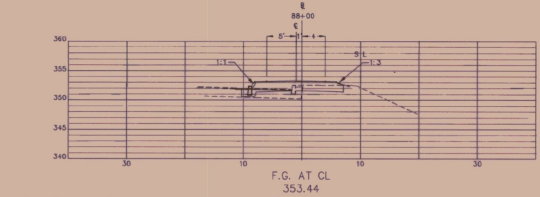
NOTE:  
TIE TO TREES AND POLES ARE TO  
FLAGGED NAILS ON SIDES. HYDRANT TIE  
IS TO SPINDLE NUT.

Date 9/24/91	Revision PER STATE REVIEW.	By LHA
STATE OF VERMONT AGENCY OF TRANSPORTATION		Proj. no. 9125
TRANSPORTATION PATH IN ESSEX AND ESSEX JUNCTION VERMONT		Survey
LAMOUREUX & STONE		Design
14 Morse Drive Essex Junction, Vermont 05452 (802) 878-4450		Drawn ED
Consulting Engineers Inc.		Checked
		Date 8/14/91
		Scale
		Proj. no. 1000 57

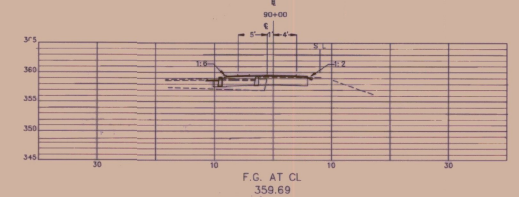
NEW DI AT STA. 85+86  
 EXISTING DI RIM ELEV = 340.72  
 INV ELEV = 336.99  
 6" X 15" RCP  
 NEW DI RIM ELEV = 340.68  
 INV ELEV = 337.07



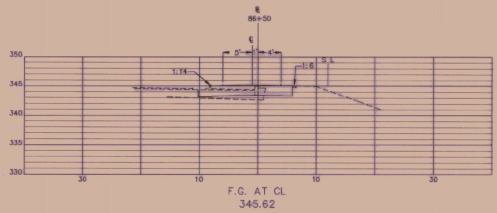
STATION 86+00



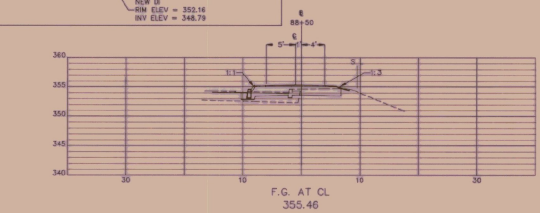
STATION 88+00



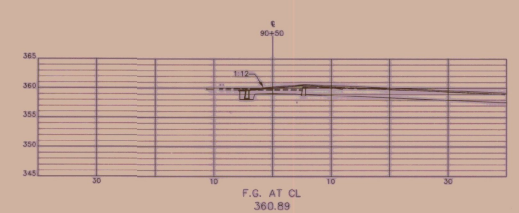
STATION 90+00



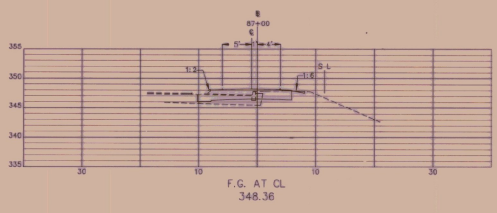
STATION 86+50



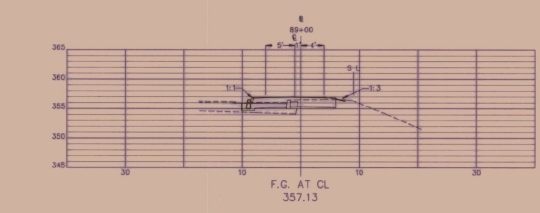
STATION 88+50



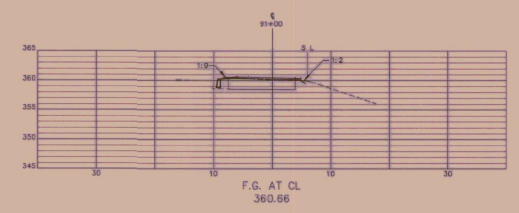
STATION 90+50



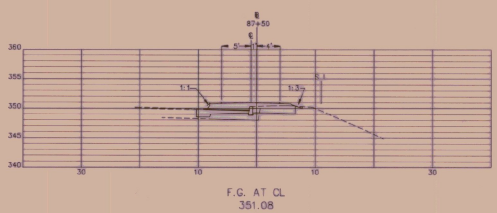
STATION 87+00



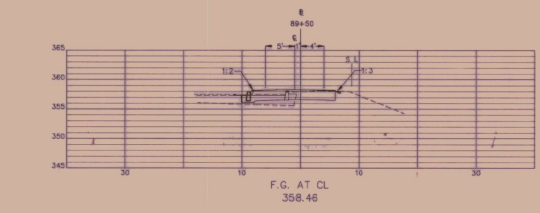
STATION 89+00



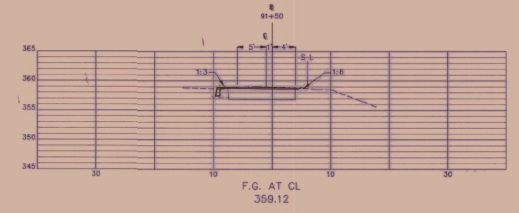
STATION 91+00



STATION 87+50



STATION 89+50



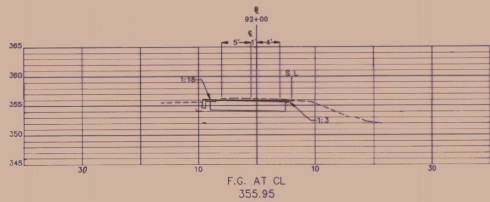
STATION 91+50

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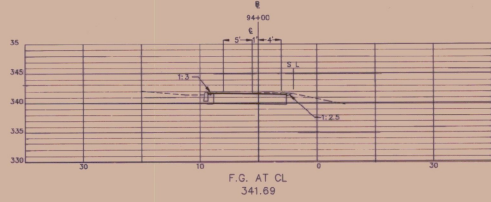
LEGEND  
 S L  
 SLOPE OF STREET

HORIZONTAL SCALE: 1"=10'  
 VERTICAL SCALE: 1"=10'

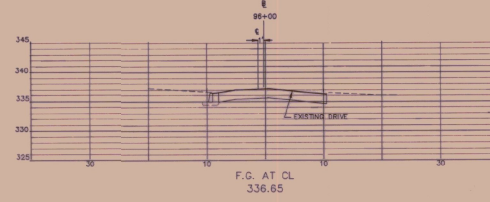
ESSEX BIKE PATH  
 JOB #: 9129  
 DRAWING #:  
 17 OE 57



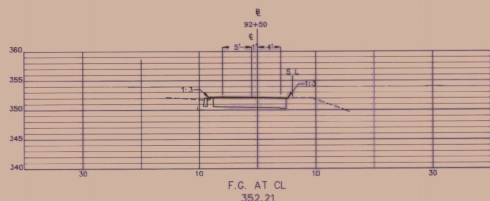
STATION 92+00



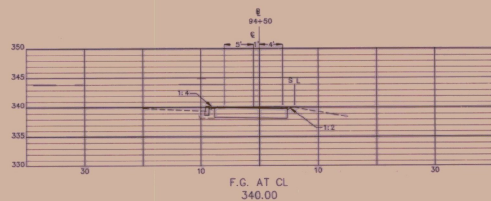
STATION 94+00



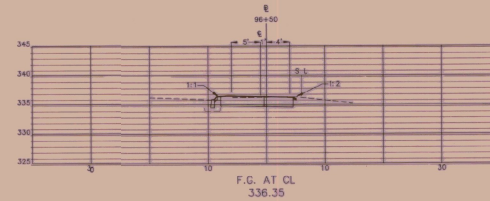
STATION 96+00



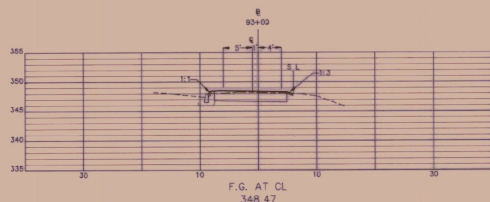
STATION 92+50



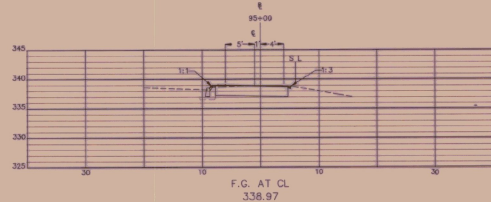
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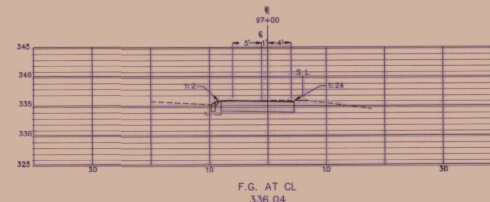
STATION 96+50



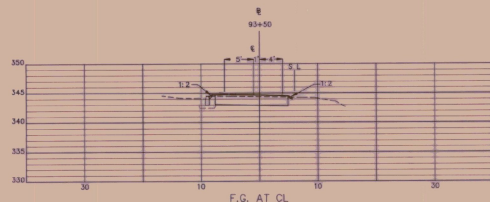
STATION 93+00



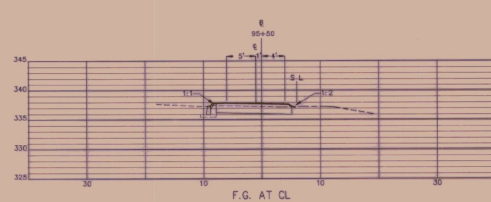
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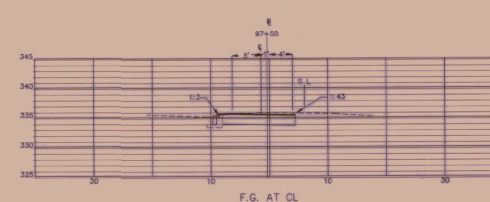
STATION 97+00



STATION 93+50



STATION 95+50



STATION 97+50

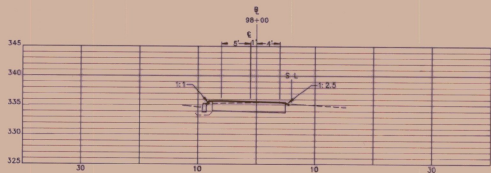
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LEGEND

S L  
 SIDELINE  
 OF STREET

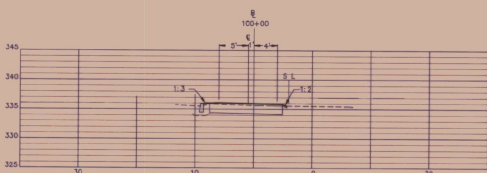
HORIZONTAL SCALE: 1"=10'  
 VERTICAL SCALE: 1"=10'

ESSEX BIKE PATH  
 JOB #: 9129  
 DRAWING #:



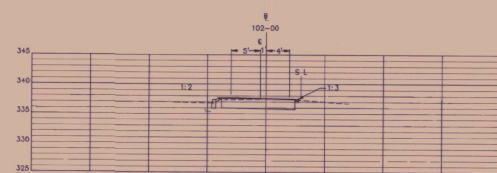
F.G. AT CL  
335.70

STATION 98+00



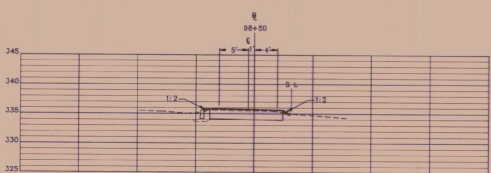
F.G. AT CL  
336.05

STATION 100+00



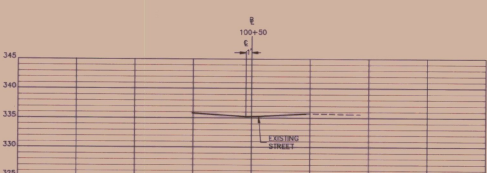
F.G. AT CL  
337.62

STATION 102+00



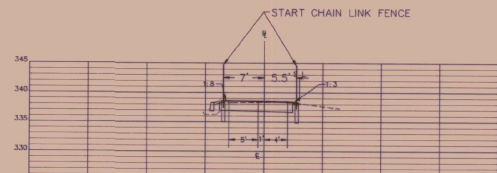
F.G. AT CL  
335.78

STATION 98+50



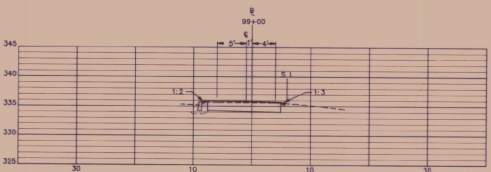
F.G. AT CL  
335.72

STATION 100+50



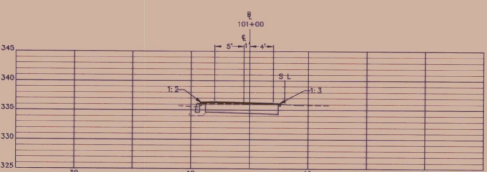
F.G. AT CL  
338.57

STATION 102+50



F.G. AT CL  
335.87

STATION 99+00



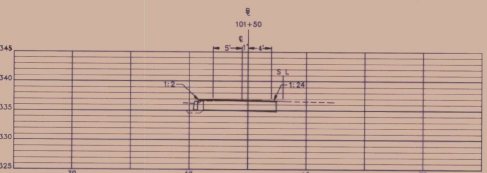
F.G. AT CL  
336.29

STATION 101+00



F.G. AT CL  
335.98

STATION 99+50



F.G. AT CL  
336.78

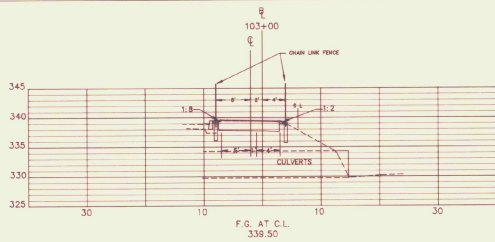
STATION 101+50

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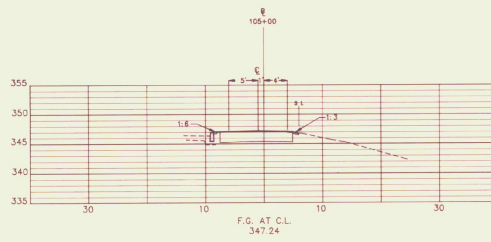
LEGEND  
S L  
SEPARATE  
OF STREET

HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'

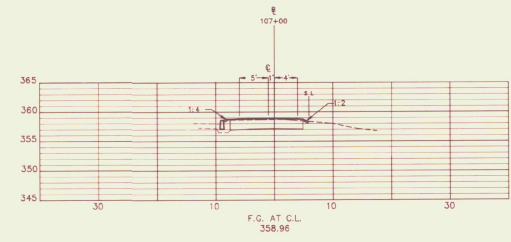
ESSEX BIKE PATH  
JOB #: 9129  
DRAWING #:  
19 OF 57



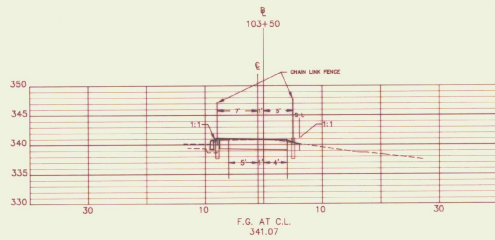
STATION 103+00



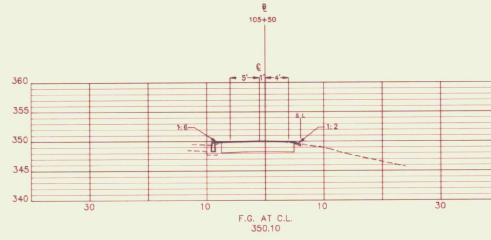
STATION 105+00



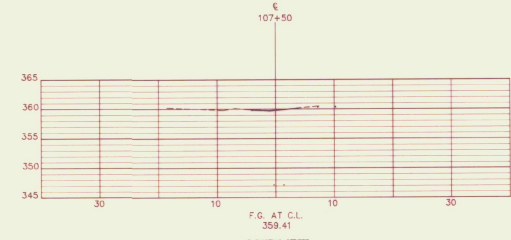
STATION 107+00



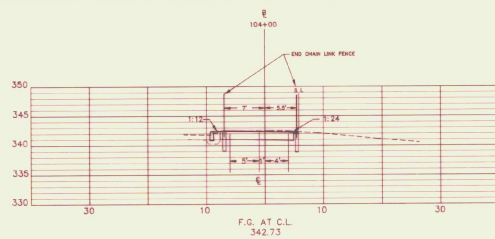
STATION 103+50



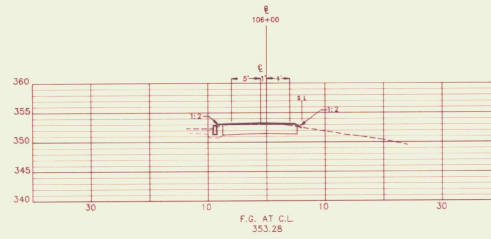
STATION 105+50



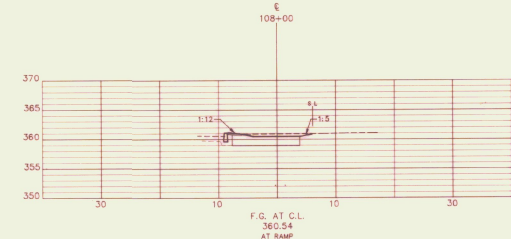
STATION 107+50



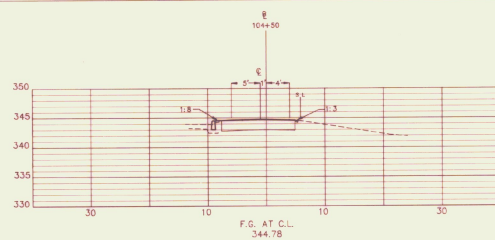
STATION 104+00



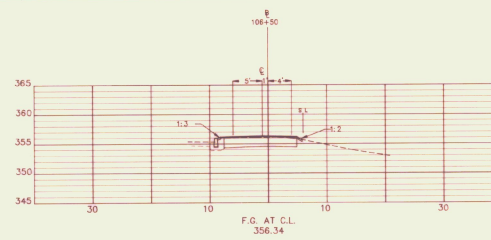
STATION 106+00



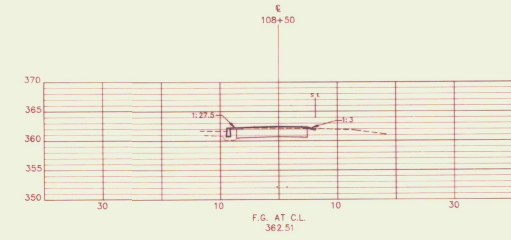
STATION 108+00



STATION 104+50



STATION 106+50



STATION 108+50

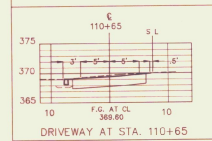
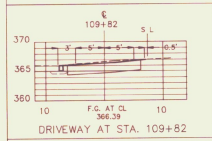
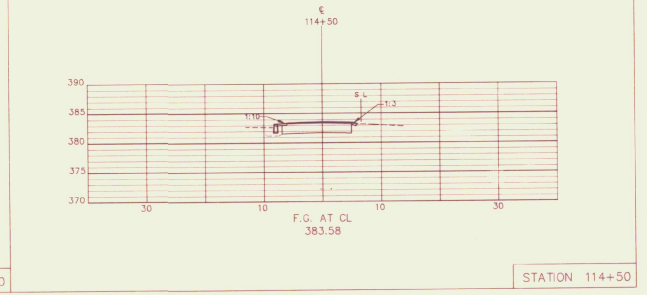
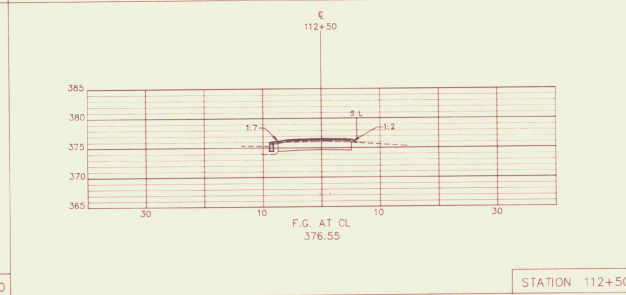
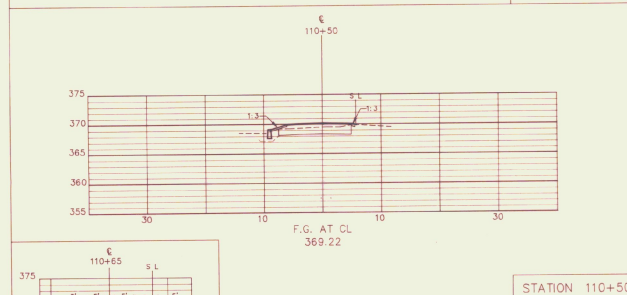
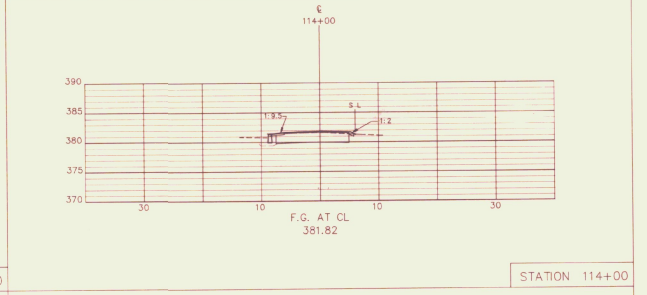
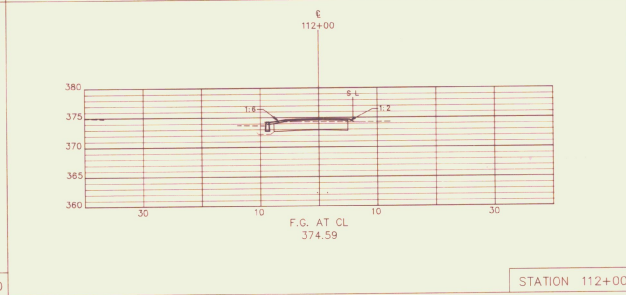
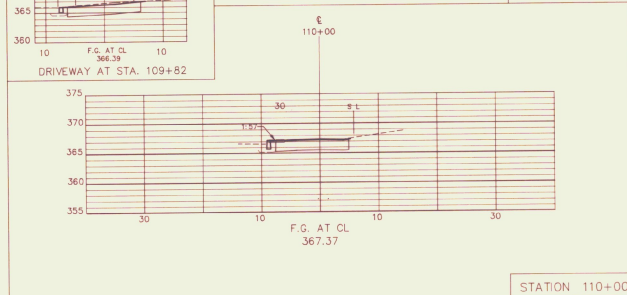
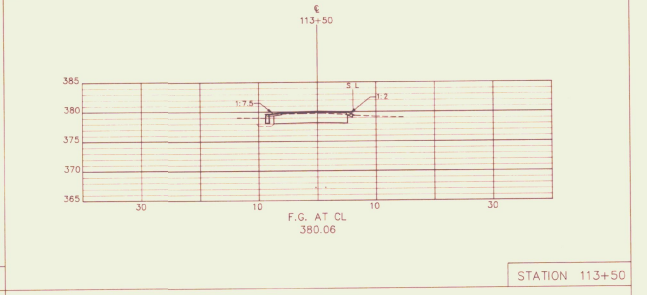
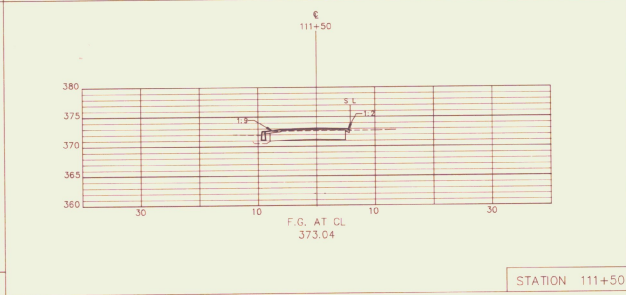
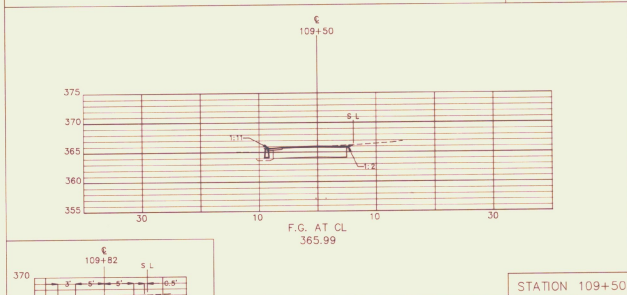
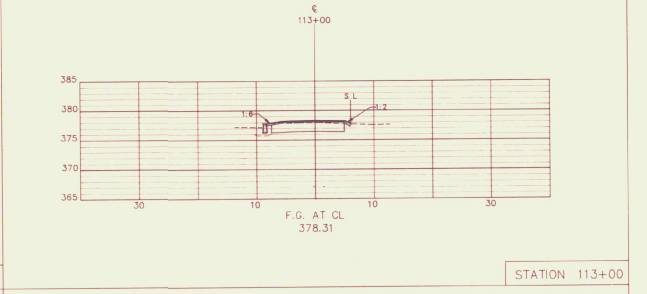
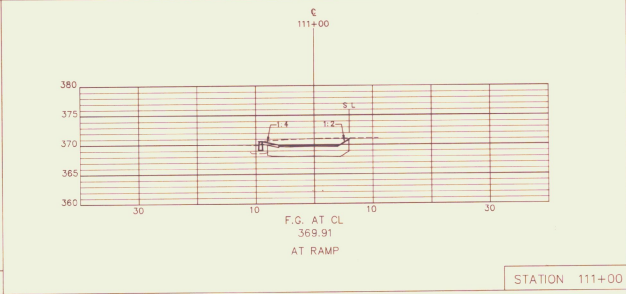
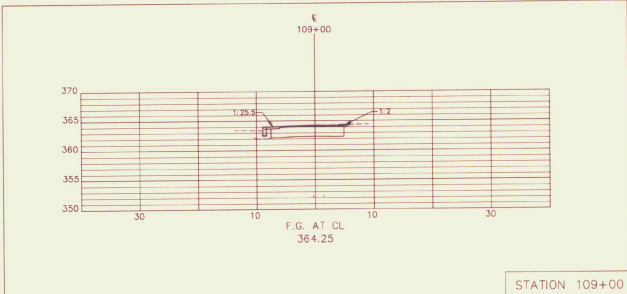


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LEGEND  
 S L  
 SIDELINE OF STREET

HORIZONTAL SCALE: 1"=10'  
 VERTICAL SCALE: 1"=10'

ESSEX BIKE PATH  
 JOB #: 9129  
 DRAWING #:  
 20 OF 57



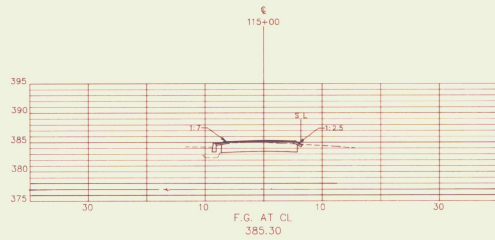
EXISTING GRADE  
FINISH GRADE  
GRAVEL CUT

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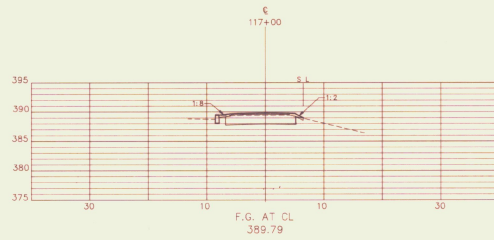
LEGEND  
S L  
SIDELINE OF STREET

HORIZONTAL SCALE: 1" = 10'  
VERTICAL SCALE: 1" = 10'

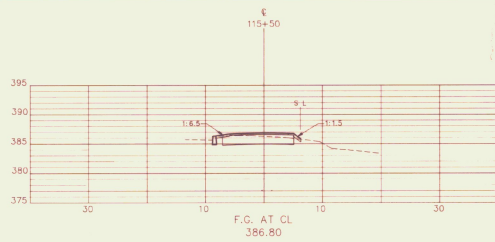
ESSEX BIKE PATH  
JOB #: 9129  
DRAWING #:  
21 OF 57



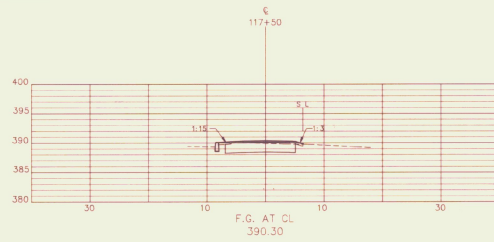
STATION 115+00



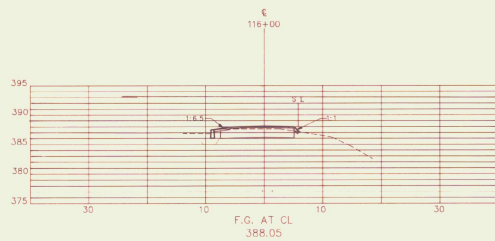
STATION 117+00



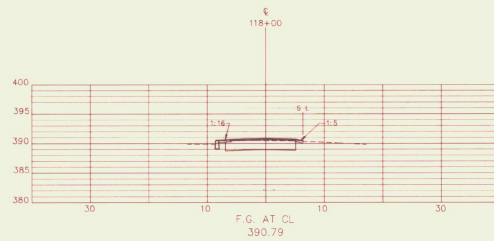
STATION 115+50



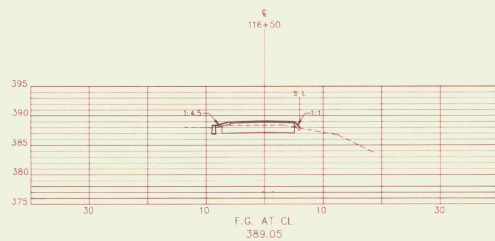
STATION 117+50



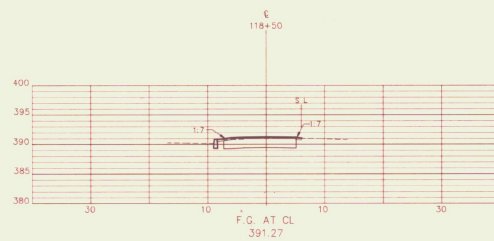
STATION 116+00



STATION 118+00



STATION 116+50



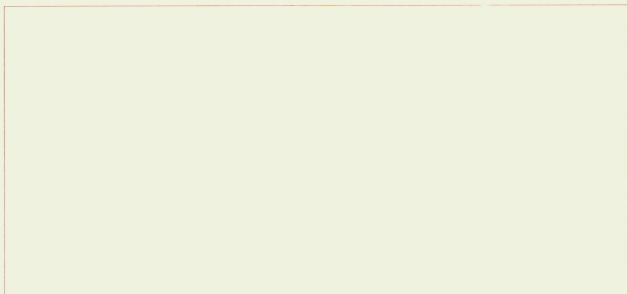
STATION 118+50

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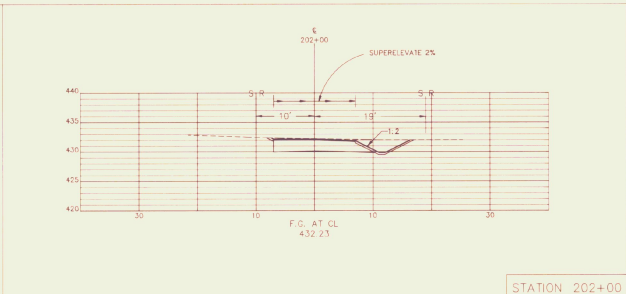
LEGEND  
 S L  
 SIDELINE OF STREET

HORIZONTAL SCALE: 1"=10'  
 VERTICAL SCALE: 1"=10'

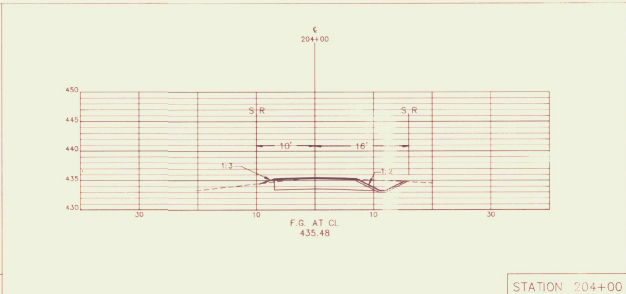
ESSEX BIKE PATH  
 JOB #: 9129  
 DRAWING #:  
 22 OF 57



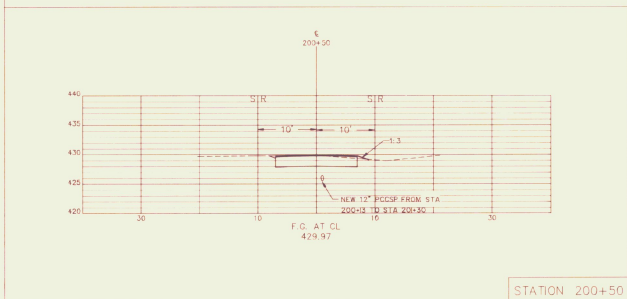
STATION 202+00



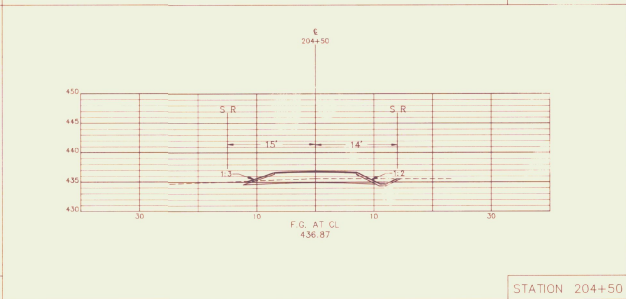
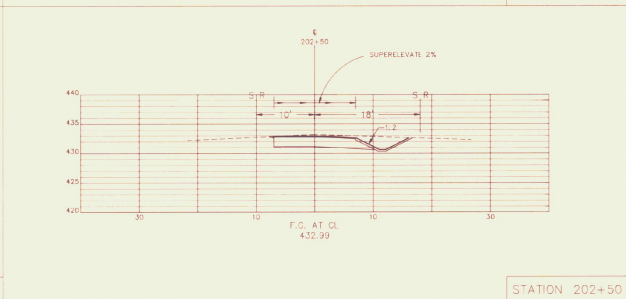
STATION 202+50



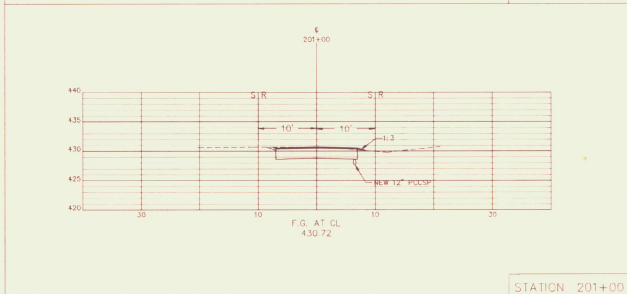
STATION 204+00



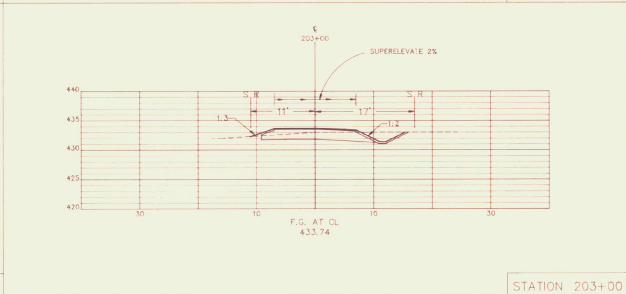
STATION 200+50



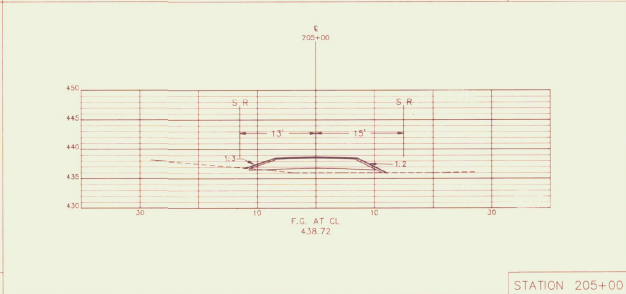
STATION 204+50



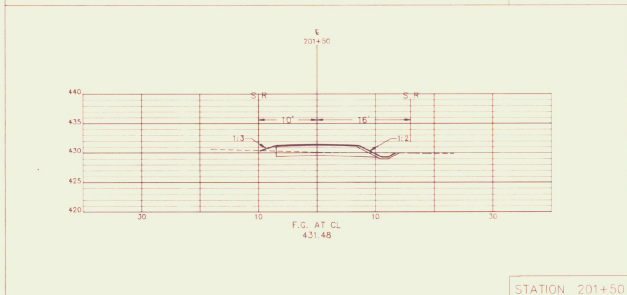
STATION 201+00



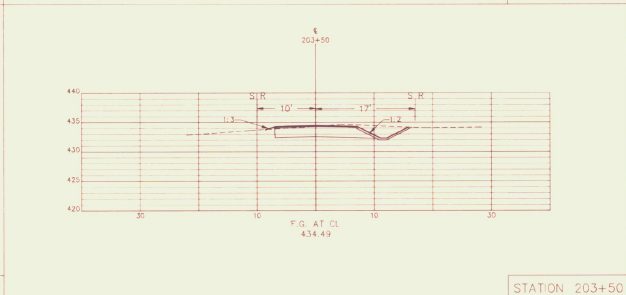
STATION 203+00



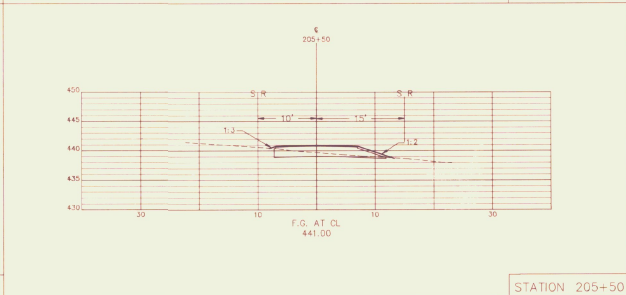
STATION 205+00



STATION 201+50



STATION 203+50



STATION 205+50

**LEGEND**

S.R.  
SLOPE RIGHTS &  
TAKING LIMITS

**LAMOUREUX & STONE**

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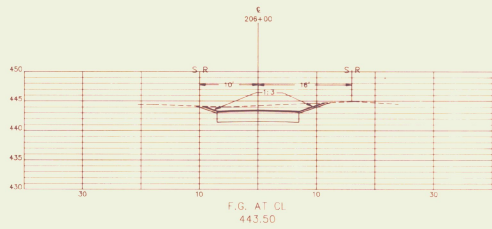
HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'

**ESSEX BIKE PATH**

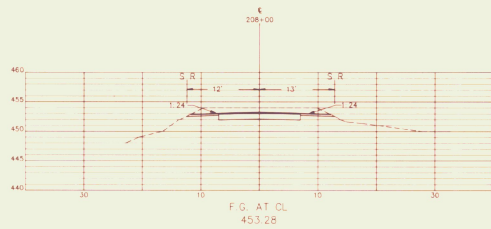
JOB #: 9129

DRAWING #:

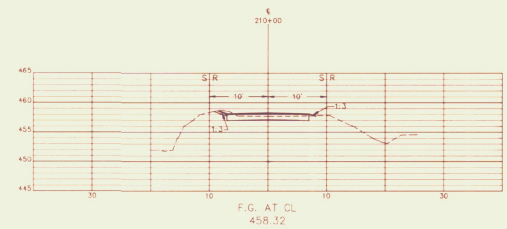
23 OF 57



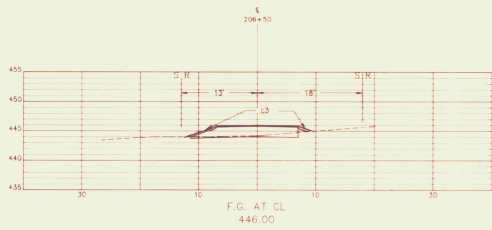
STATION 206+00



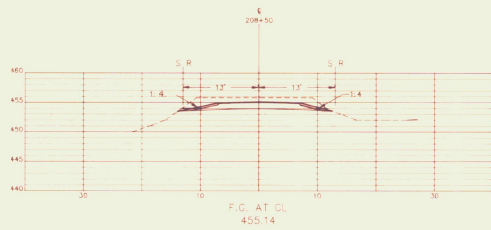
STATION 208+00



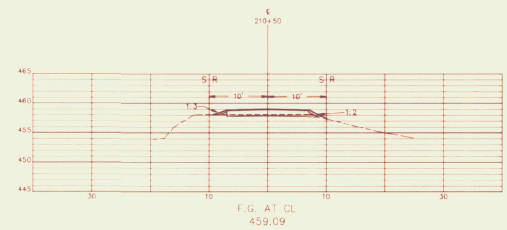
STATION 210+00



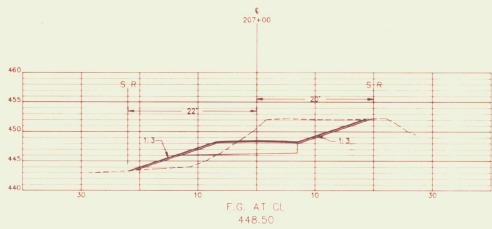
STATION 206+50



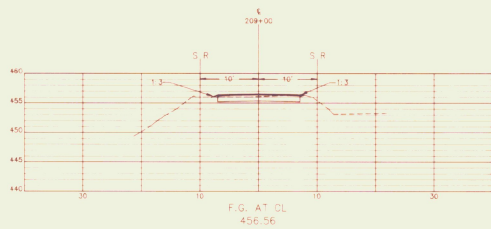
STATION 208+50



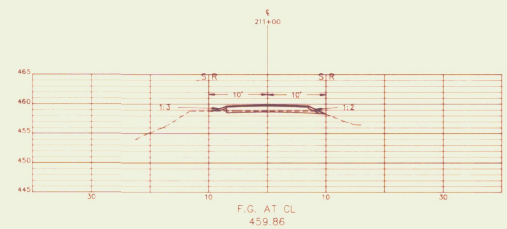
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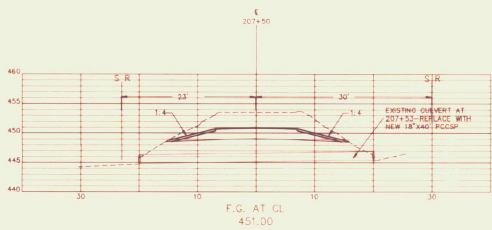
STATION 207+00



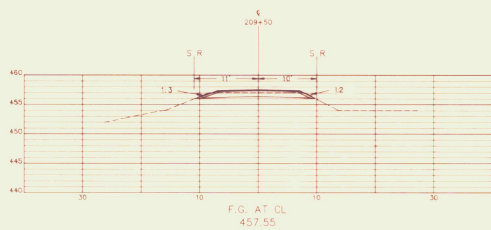
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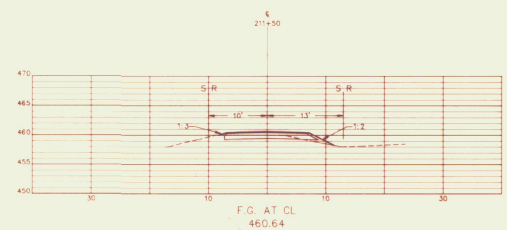
STATION 211+00



STATION 207+50



STATION 209+50



STATION 211+50

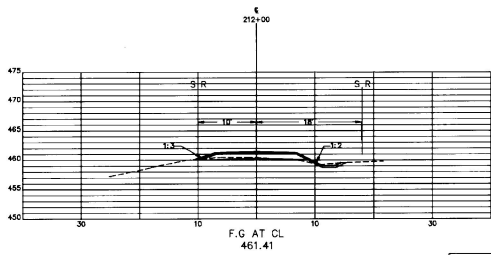
**LEGEND**



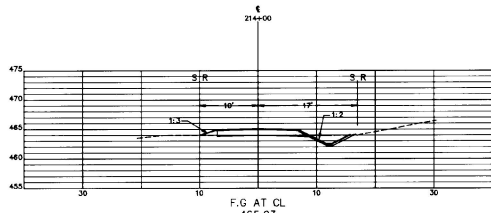
**LAMOUREUX & STONE**  
 14 Morse Drive  
 Essex Junction, Vermont 05452  
 (802) 878-4450  
 Consulting Engineers Inc.

HORIZONTAL SCALE: 1"=10'  
 VERTICAL SCALE: 1"=10'

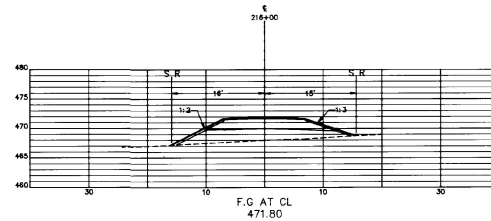
**ESSEX BIKE PATH**  
 JOB #: 9129  
 DRAWING #:  
 \_24\_ OF \_57\_



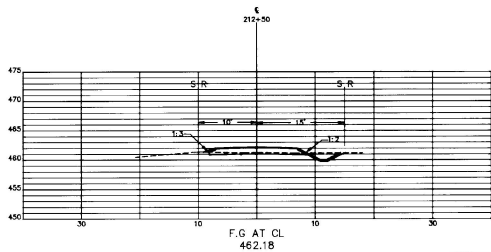
STATION 212+00



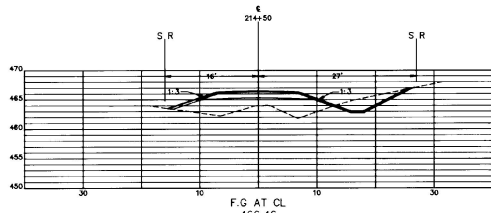
STATION 214+00



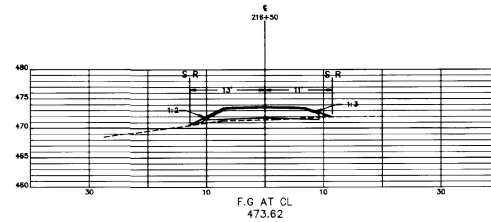
STATION 216+00



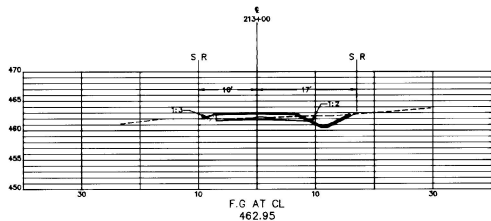
STATION 212+50



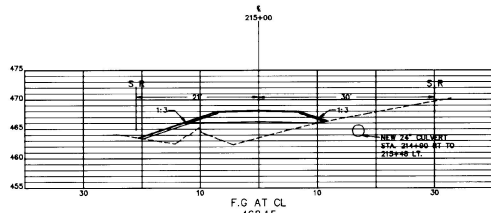
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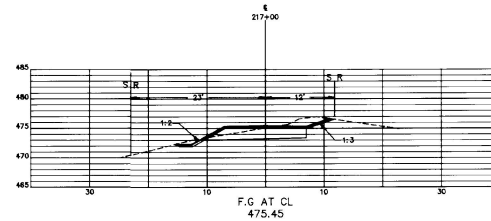
STATION 216+50



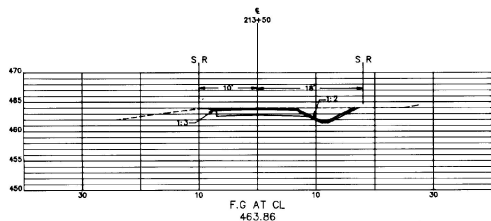
STATION 213+00



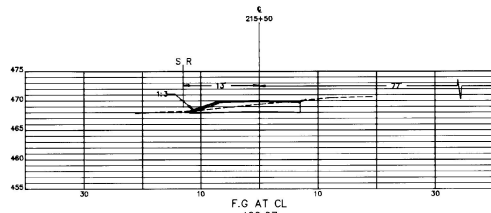
STATION 215+00



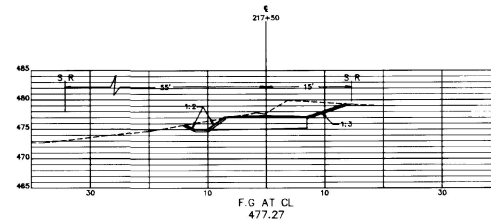
STATION 217+00



STATION 213+50



STATION 215+50



STATION 217+50

**LEGEND**

S, R  
SLOPE RIGHTS &  
TAKING LIMITS

**LAMOUREUX & STONE**

14 Morse Drive  
Essex Junction, Vermont 05452  
(802) 878-4450

Consulting Engineers Inc.

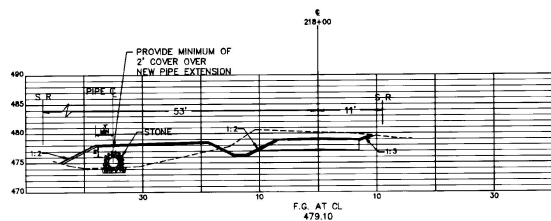
HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'

**ESSEX BIKE PATH**

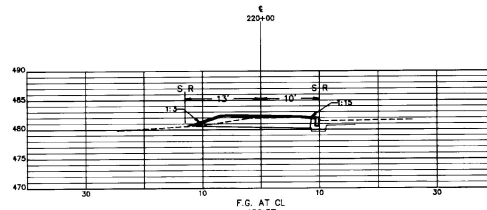
JOB #: 9129

DRAWING #:

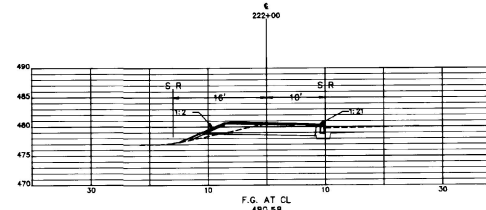
25 OF 57



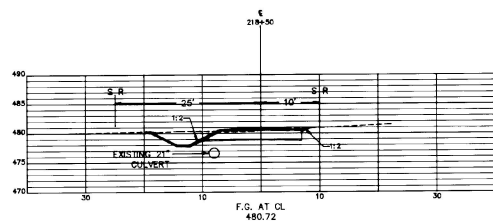
STATION 218+00



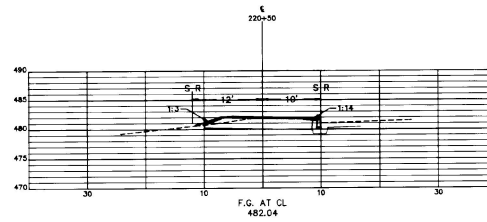
STATION 220+00



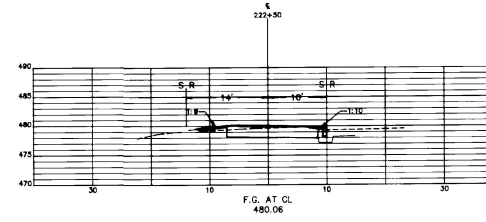
STATION 222+00



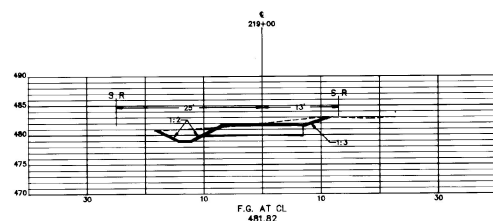
STATION 218+50



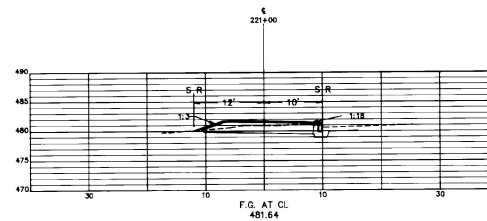
STATION 220+50



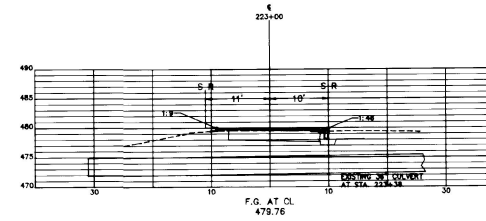
STATION 222+50



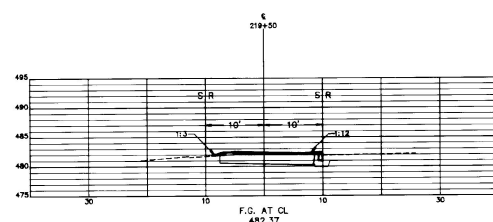
STATION 219+00



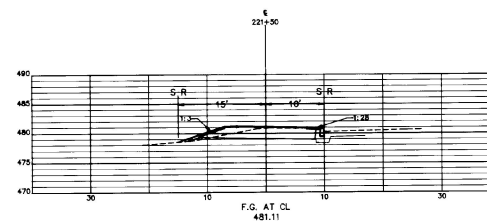
STATION 221+00



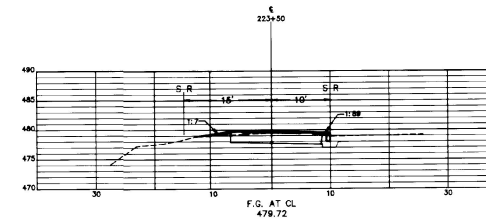
STATION 223+00



STATION 219+50



STATION 221+50



STATION 223+50

**LEGEND**

S. R.  
SLOPE RIGHTS &  
TAKING LIMITS

LAMOUREUX & STONE

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Essex Junction, Vermont 05452  
(802) 878-4450  
Consulting Engineers Inc.

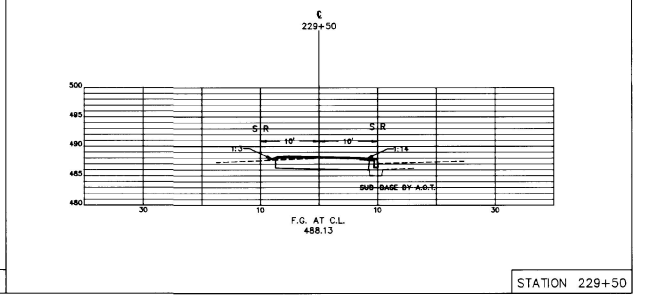
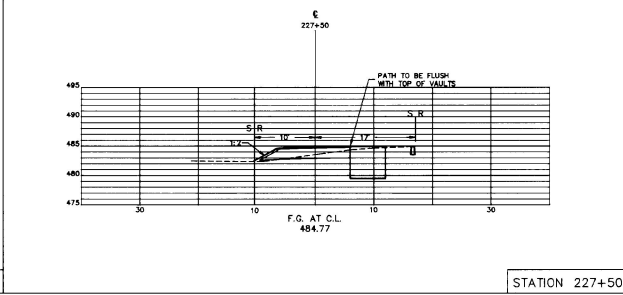
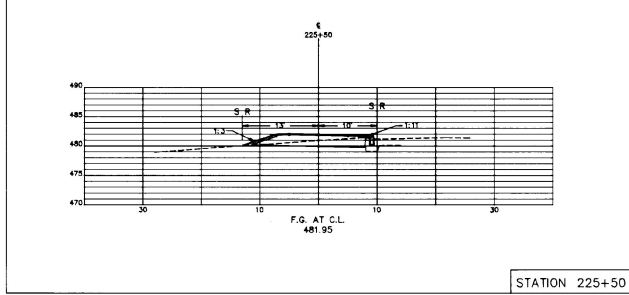
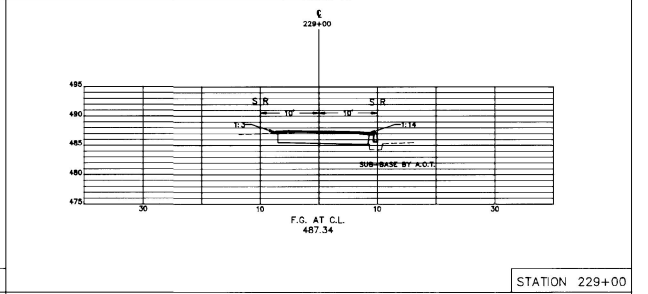
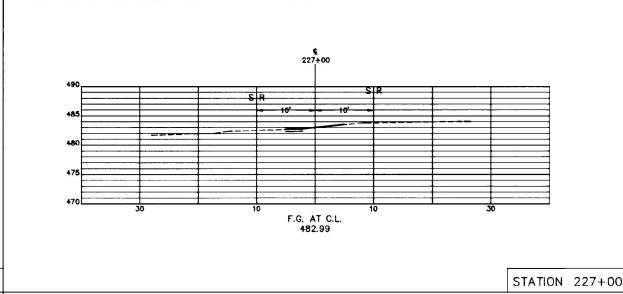
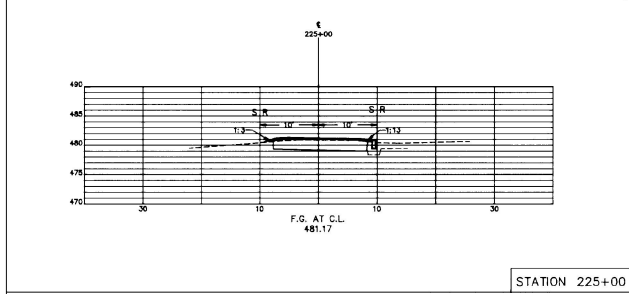
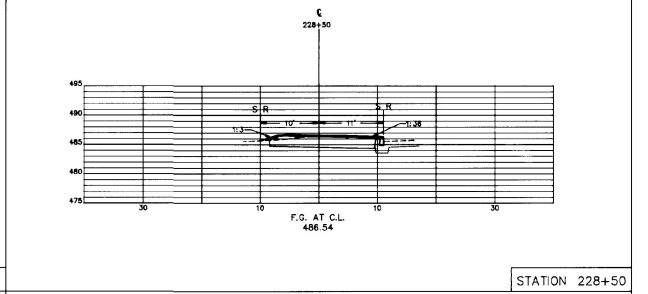
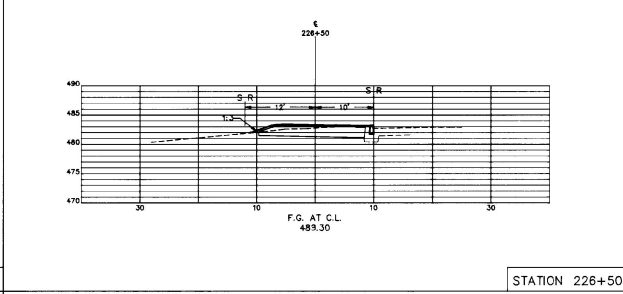
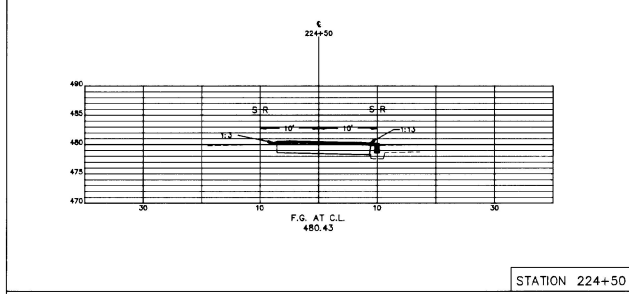
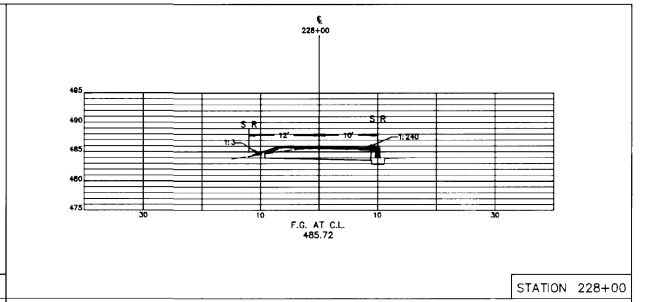
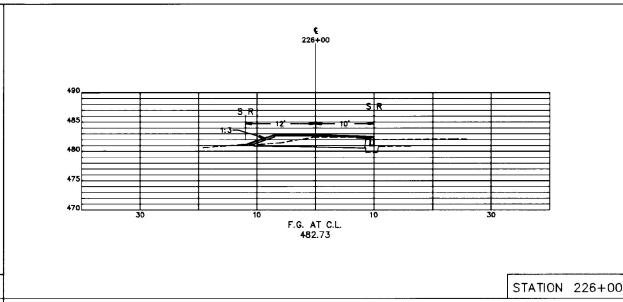
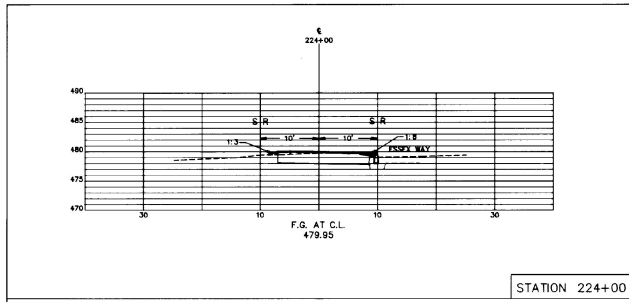
HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'

**ESSEX BIKE PATH**

JOB #: 9129

DRAWING #:

26 OF 57

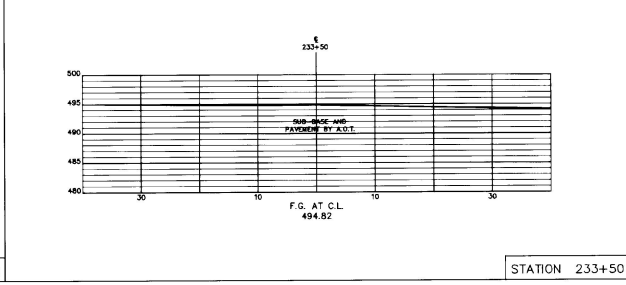
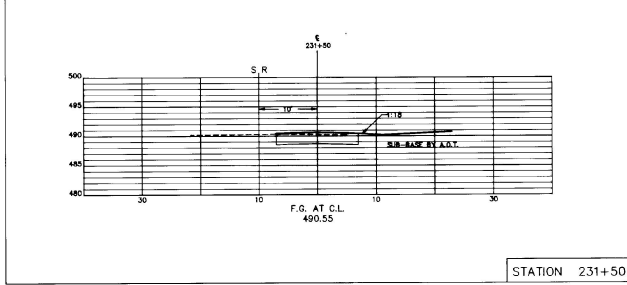
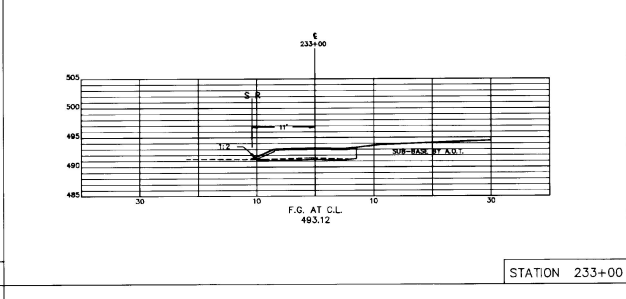
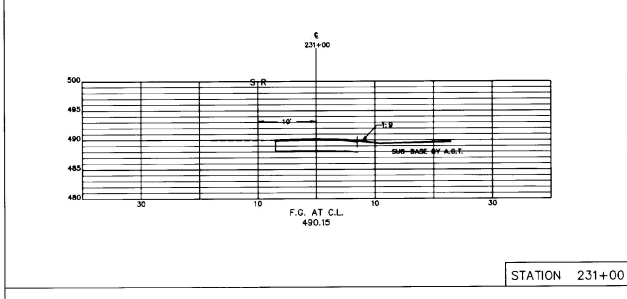
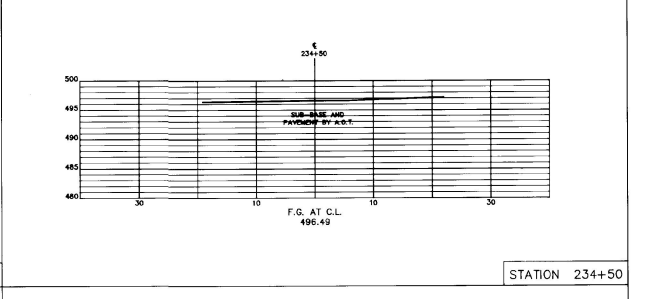
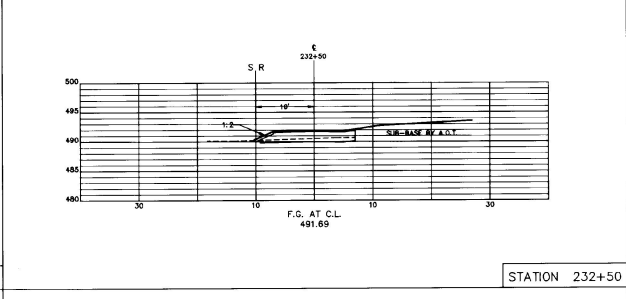
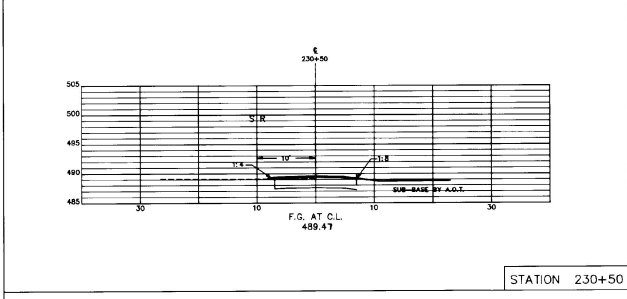
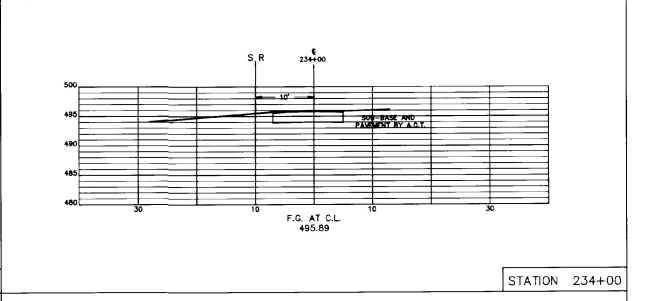
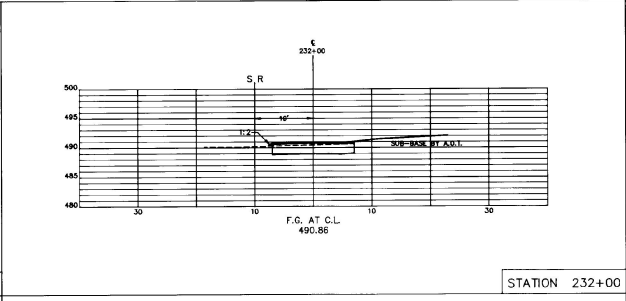
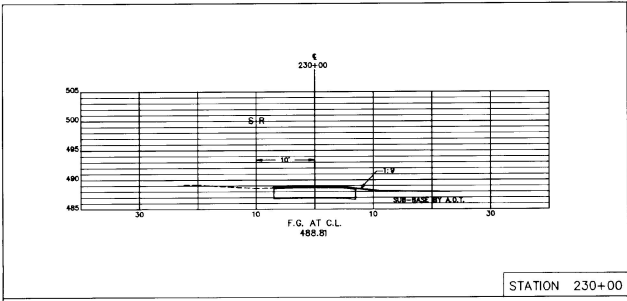


**LEGEND**  
 S R SLOPE RIGHTS  
 T L TAKING LIMITS

LAMOUREUX & STONE  
 14 Morse Drive  
 Essex Junction, Vermont 05452  
 (802) 878-4450  
 Consulting Engineers Inc.

HORIZONTAL SCALE: 1"=10'  
 VERTICAL SCALE: 1"=10'

ESSEX BIKE PATH  
 JOB #: 9129  
 DRAWING #:



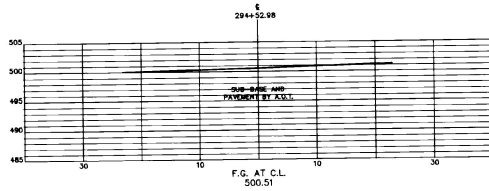
**LEGEND**

S, R  
SLOPE RIGHTS &  
TAKING LIMITS

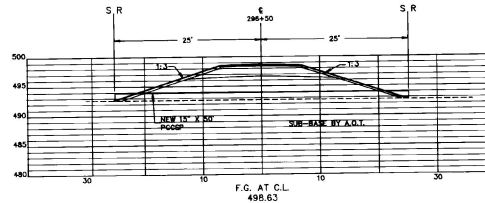
LAMOUREUX & STONE  
14 Morse Drive  
Essex Junction, Vermont 05452  
(802) 878-4450  
Consulting Engineers Inc.

HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'

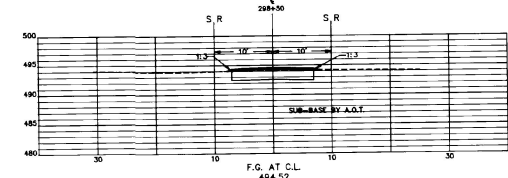
ESSEX BIKE PATH  
JOB #: 9129  
DRAWING #:



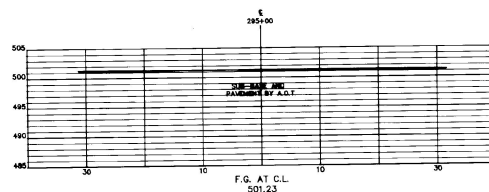
STATION 294+52.98



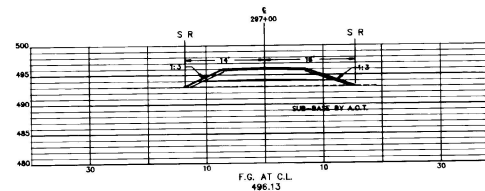
STATION 296+00



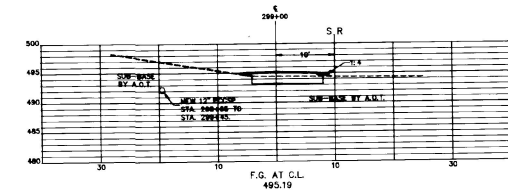
STATION 298+50



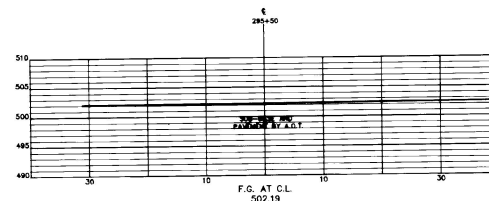
STATION 295+00



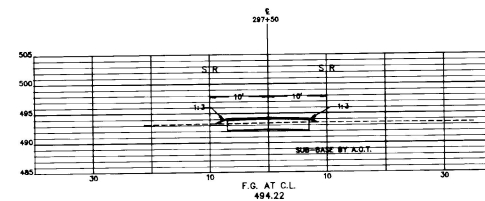
STATION 297+00



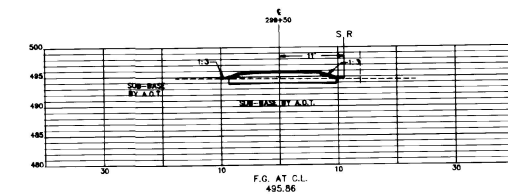
STATION 299+00



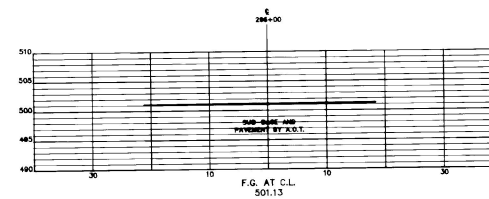
STATION 295+50



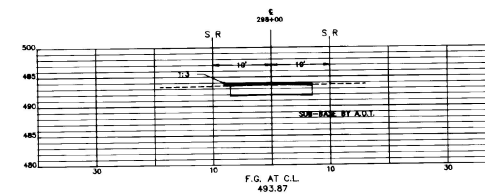
STATION 297+50



STATION 299+50



STATION 296+00



STATION 298+00

**LEGEND**

S, R  
SLOPE RIGHTS &  
TAKING LIMITS

LAMOUREUX & STONE

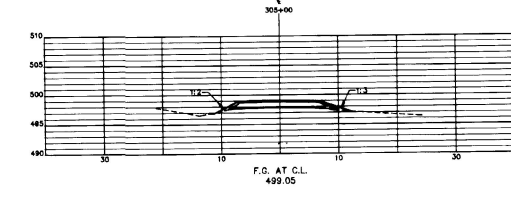
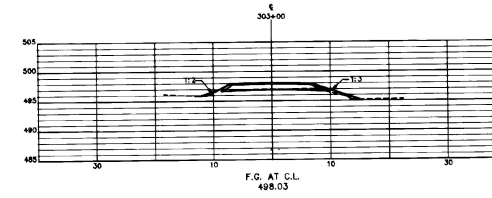
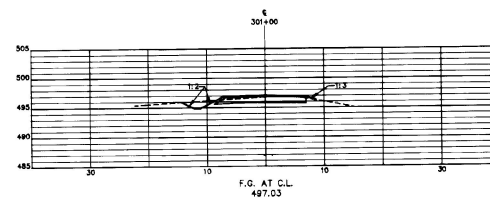
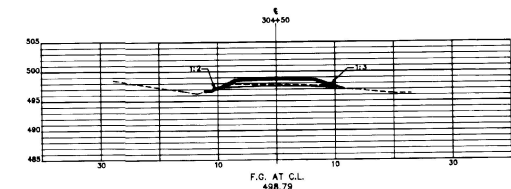
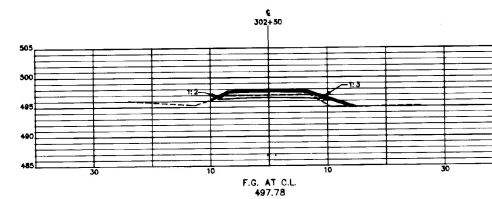
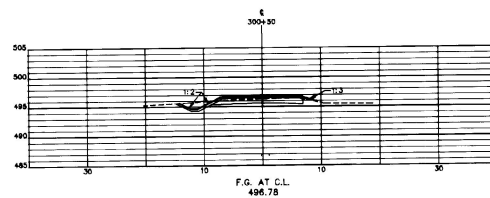
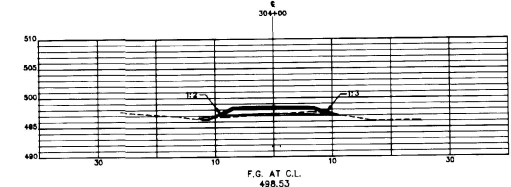
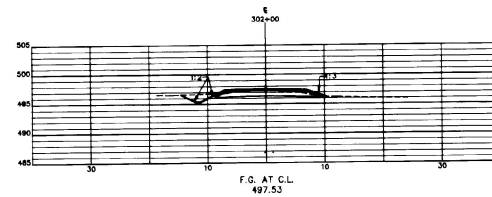
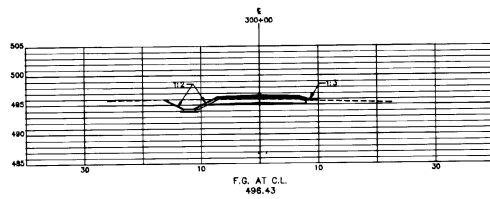
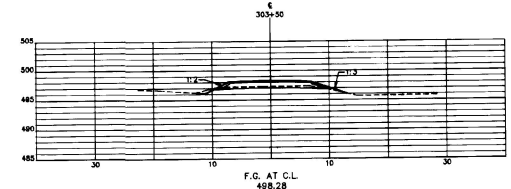
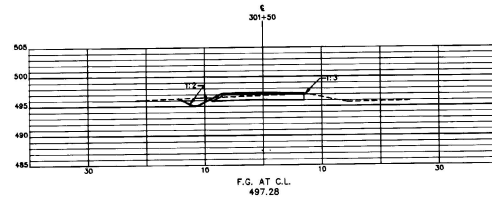
14 Morse Drive  
Essex Junction, Vermont 05452  
(802) 878-4400  
Consulting Engineers Inc.

HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'

**ESSEX BIKE PATH**  
JOB #: 9129  
DRAWING #:

29 OF 57

# SERIES 300



## LEGEND

S R  
SLOPE RIGHTS &  
TAKING LIMITS

## LEGEND

--- EXISTING GROUND  
— FINISHED GRADE

## LAMOUREUX & STONE

14 Morse Drive  
Essex Junction, Vermont 05452  
(802) 878-4450  
Consulting Engineers Inc.

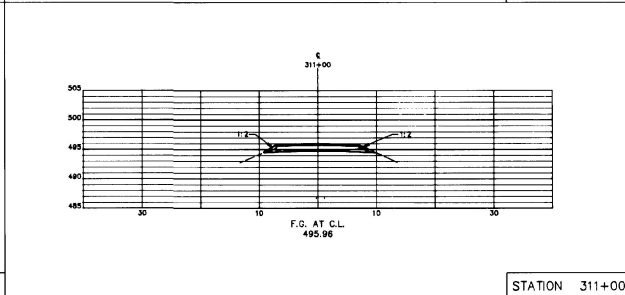
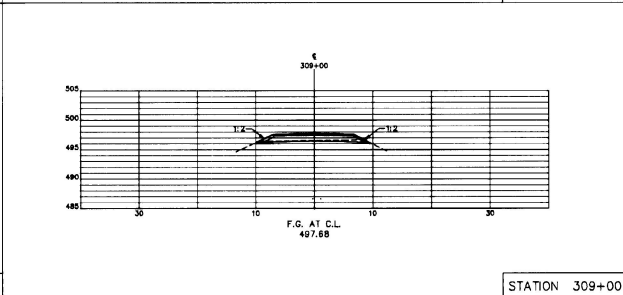
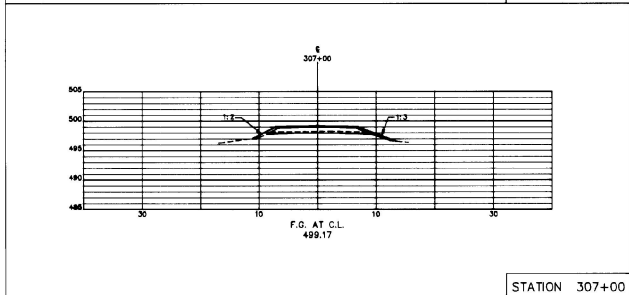
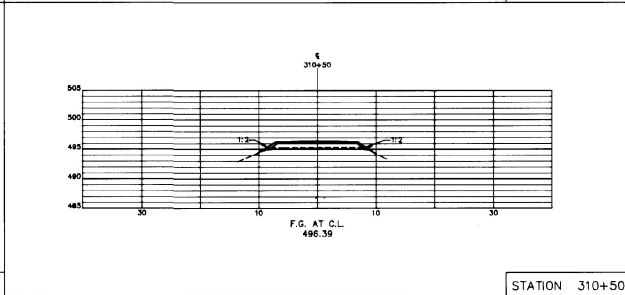
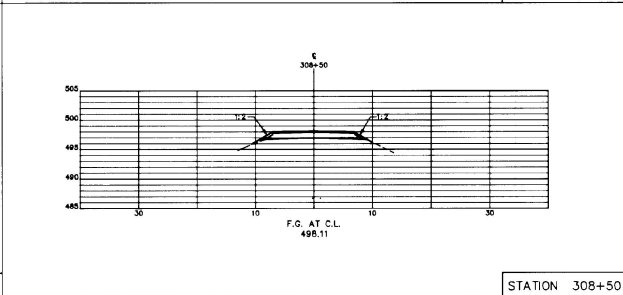
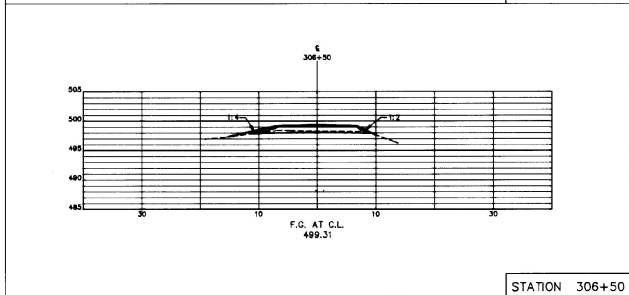
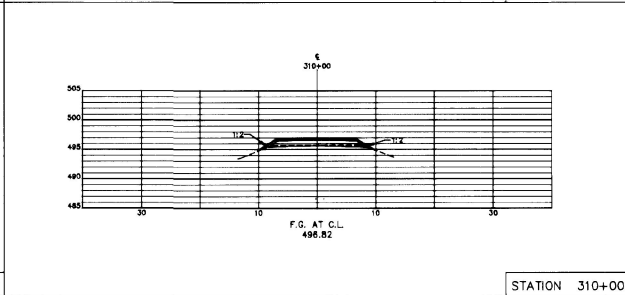
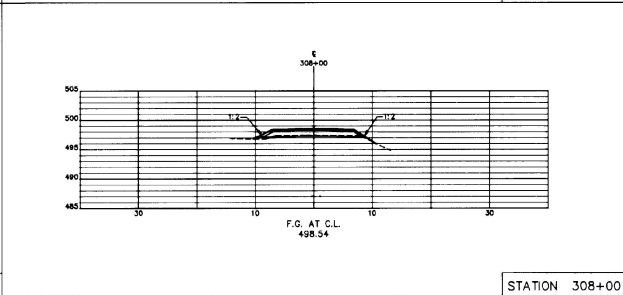
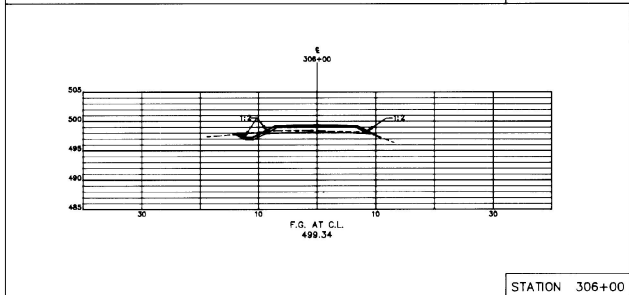
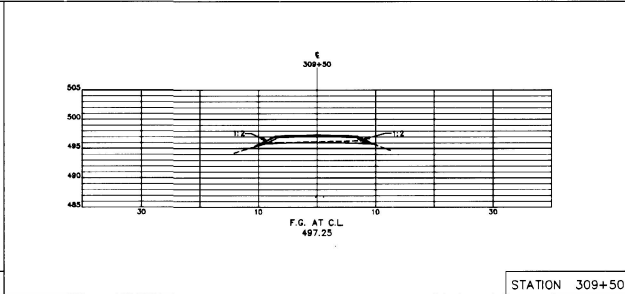
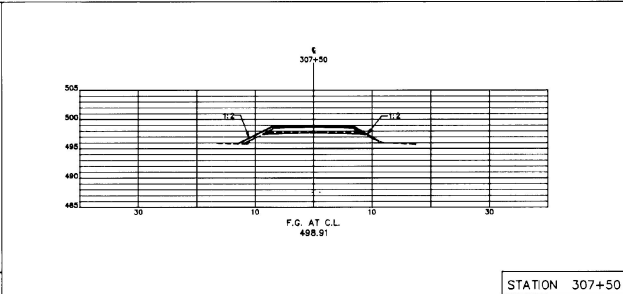
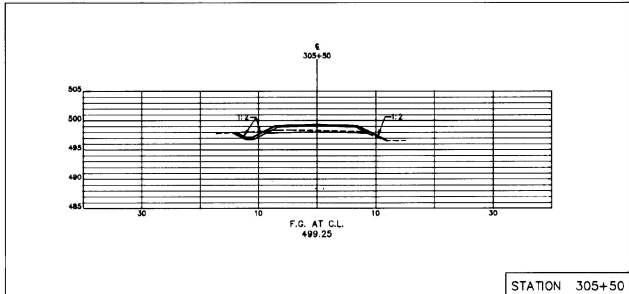
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VERTICAL SCALE: 1"=10'

ESSEX BIKE PATH

JOB #: 9129

DRAWING #:

30 OF 57

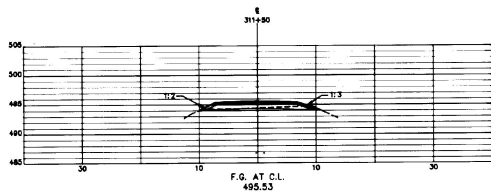


**LEGEND**  
 S R  
 SLOPE RIGHTS &  
 TAKING LIMITS

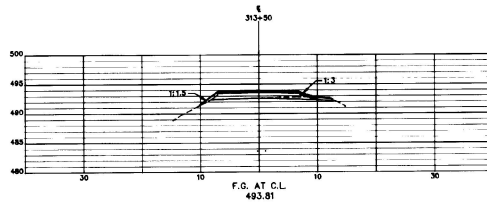
LAMOREUX & STONE  
 14 Morse Drive  
 Essex Junction, Vermont 05452  
 (802) 878-4450  
 Consulting Engineers Inc.

HORIZONTAL SCALE: 1"=10'  
 VERTICAL SCALE: 1"=10'

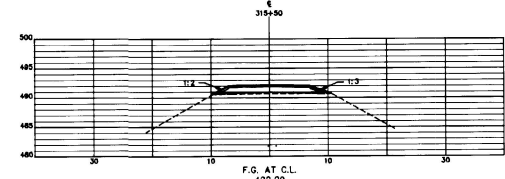
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 JOB #: 9129  
 DRAWING #:  
 31 OF 57



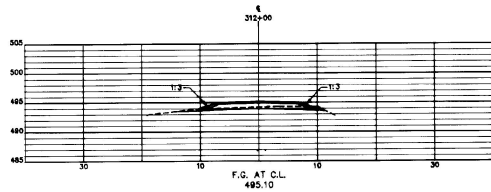
STATION 311+00



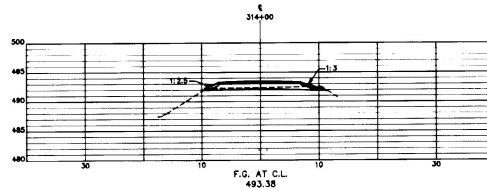
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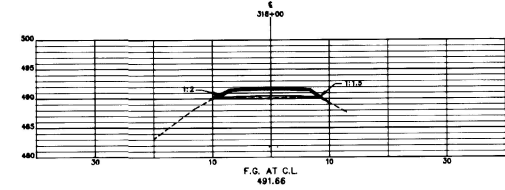
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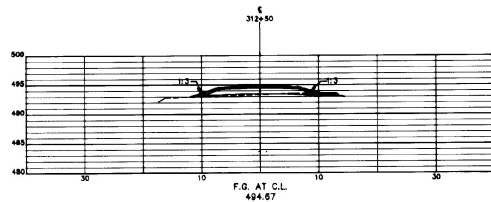
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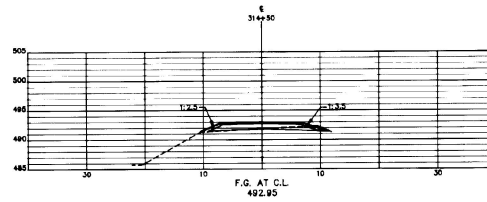
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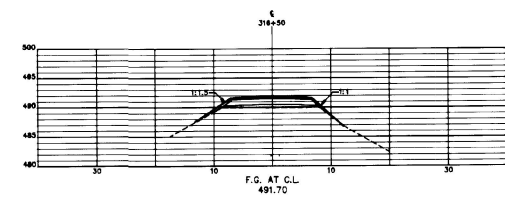
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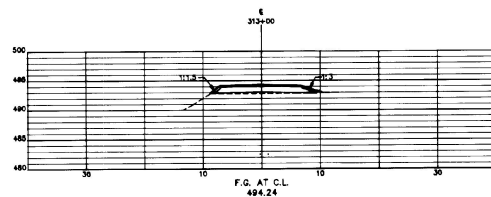
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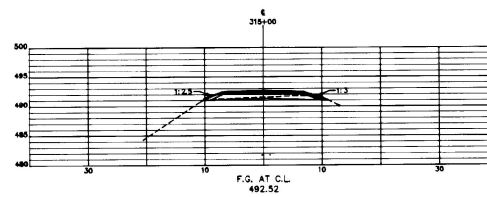
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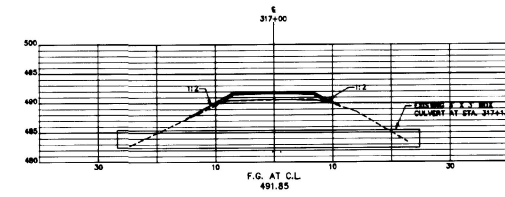
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STATION 313+00



STATION 315+00



STATION 317+00

**LEGEND**

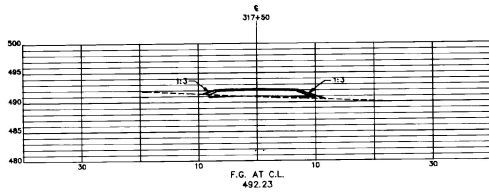
S R  
SLOPE RIGHTS &  
TAKING LIMITS

LAMOUREUX & STONE  
14 Morse Drive  
Essex Junction, Vermont 05452  
(802) 878-4400  
Consulting Engineers Inc.

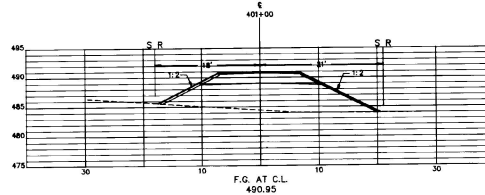
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VERTICAL SCALE: 1"=10'

**ESSEX BIKE PATH**  
JOB #: 9129  
DRAWING #:

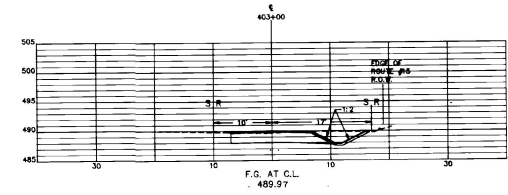
# SERIES 400



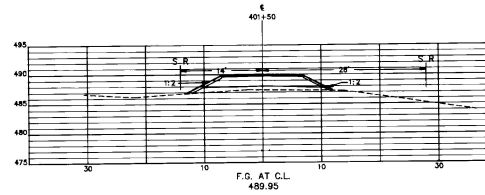
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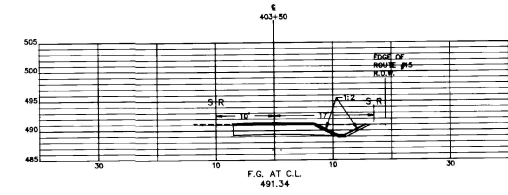
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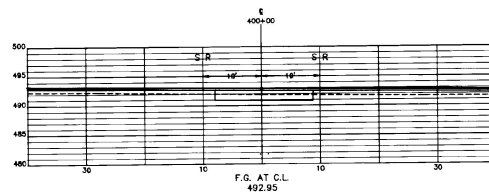
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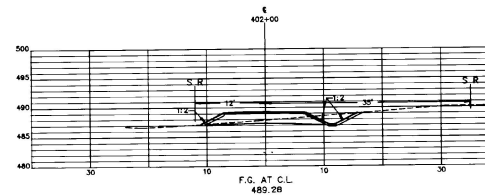
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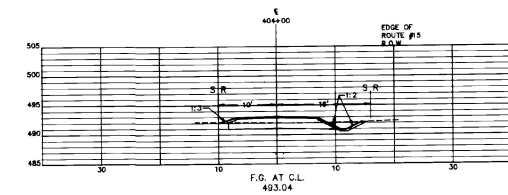
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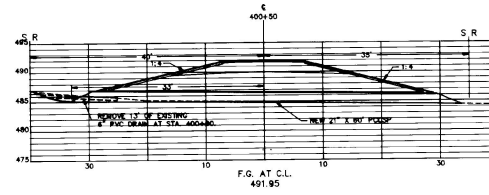
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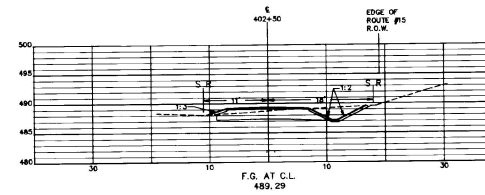
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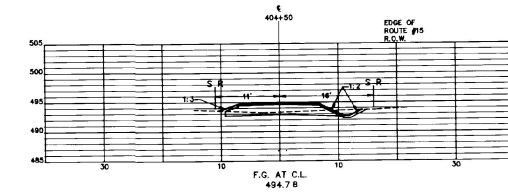
STATION 404+00



STATION 400+50



STATION 402+50



STATION 404+50

## LEGEND

S.R.  
SLOPE RIGHTS &  
TAKING LIMITS

LAMOUREUX & STONE  
14 Horse Drive  
Essex Junction, Vermont 05452  
(802) 878-4450  
Consulting Engineers Inc.

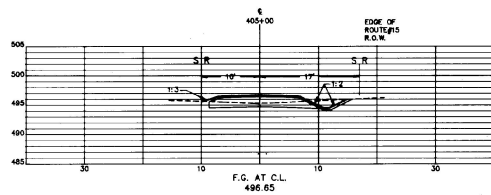
HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'

ESSEX BIKE PATH

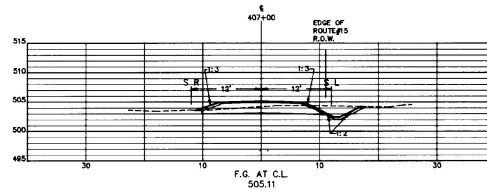
JOB #: 9129

DRAWING #:

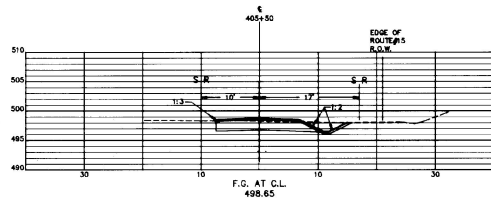
33 OF 57



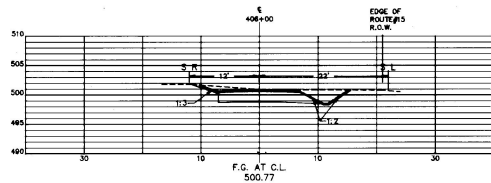
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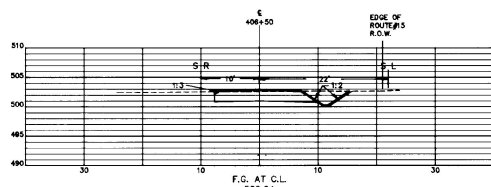
STATION 407+00



STATION 405+50



STATION 406+00



STATION 406+50

**LEGEND**

S.R.  
SLOPE RIGHTS &  
TAKING LIMITS

LAMOUREUX & STONE  
14 Morse Drive  
Essex Junction, Vermont 05452  
(802) 878-4450  
Consulting Engineers Inc.

HORIZONTAL SCALE: 1"=10'  
VERTICAL SCALE: 1"=10'

**ESSEX BIKE PATH**  
JOB # 9129  
DRAWING #  
34 OF 57

SIGN SUMMARY

STATION	SIGN LEGEND	NEW SIGNS				NEW SIGN POSTS			REMARKS	
		SIGN DIMENSIONS	MUTCD NO.	SHEET NO.	AREA	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.			
							2.0	2.5		3.0
DINSMORE DRIVE		24" x 18"	D11-1		3.75	1	X		SEE DETAIL ON SHEET 40 OF 57	
		12" x 6"	W7-1							
95+65 RT		24" x 18"	D11-1		8.5	1		X	SEE DETAIL ON SHEET 40 OF 57	
		24" x 24"	R5-3					X		
		12" x 18"	R9-6							X
95+72 LT		18" x 18"	R1-1		2.25	1		X	SEE STANDARD SHEET E-143	
96+50 LT		12" x 6"	M4-12		3.25	1		X	SEE DETAIL ON SHEET 40 OF 57	
		24" x 18"	D11-1							
97+50 LT		18" x 18"	W3-1		2.25	1		X	SEE DETAIL ON SHEET 40 OF 57	
99+40 RT		18" x 18"	R1-1		2.25	1		X	SEE STANDARD SHEET E-143	
99+42 LT		18" x 18"	R1-1		2.25	1		X	SEE STANDARD SHEET E-143	
99+00 RT		18" x 18"	W3-1		2.25	1		X	SEE DETAIL ON SHEET 40 OF 57	

SIGN SUMMARY

STATION	SIGN LEGEND	NEW SIGNS				NEW SIGN POSTS			REMARKS	
		SIGN DIMENSIONS	MUTCD NO.	SHEET NO.	AREA	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.			
							2.0	2.5		3.0
90+63 RT		24" x 18"	D11-1		8.5	1		X	SEE DETAIL ON SHEET 40 OF 57	
		24" x 24"	R5-3					X		
		12" x 18"	R9-6							X
90+92 LT		12" x 36"	TYPE III		3.0	1		X	SEE STANDARD SHEET E-120	
91+50 LT		18" x 18"	W3-1		2.25	1		X	SEE DETAIL ON SHEET 40 OF 57	
95+11 LT		12" x 36"	TYPE III		3.0	1		X	SEE STANDARD SHEET E-120	
95+73 LT		12" x 36"	TYPE III		3.0	1		X	SEE STANDARD SHEET E-120	
99+50 LT		18" x 18"	W3-1		2.25	1		X	SEE DETAIL ON SHEET 40 OF 57	
100+16 RT		18" x 18"	R1-1		2.25	1		X	SEE STANDARD SHEET E-143	
100+73 LT		18" x 18"	R1-1		2.25	1		X	SEE STANDARD SHEET E-143	
101+50 LT		18" x 18"	W5-4		2.25	1		X	SEE DETAIL ON SHEET 40 OF 57	

DATE: 5/24/91	REVISION: REVISED PER STATE REVIEW	BY: SCL
DATE: 5-91	REVISION: REVISED PER STATE REVIEW	BY: SCL
STATE OF VERMONT AGENCY OF TRANSPORTATION		
ESSEX TRANSPORTATION PATH TRAFFIC SIGN SUMMARY		
LAMOREUX & STONE 14 NORTH DOW Essex Junction, Vermont 05452 (802) 878-6650 Consulting Engineers Inc.		

SIGN SUMMARY

STATION	SIGN LEGEND	NEW SIGNS				NEW SIGN POSTS				REMARKS
		SIGN DIMENSIONS	MUTCD NO.	SHEET NO.	AREA	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.			
							2.0	2.5	3.0	
102+30 LT		16" x 16"	W3-1		2.25	1	X			SEE DETAIL ON SHEET 40 OF 57
102+40 RT		12" x 36"	TYPE III		3.0	1	X			SEE STANDARD SHEET E-20
104+07 RT		12" x 36"	TYPE III		3.0	1	X			SEE STANDARD SHEET E-20
105+00 LT		16" x 16"	W5-4		2.25	1	X			SEE DETAIL ON SHEET 40 OF 57
105+50 RT		16" x 16"	W3-1		2.25	1	X			SEE DETAIL ON SHEET 40 OF 57
107+44 RT		18" x 18"	R1-1		2.25	1	X			SEE STANDARD SHEET E-143
MANFIELD AVE.		24" x 18"	D11-1		3.75	1	X			SEE SHEET BR-2 FOR EXACT LOCATION
		12" x 9"	W7-1							
108+20 LT		18" x 18"	R1-1		2.25	1	X			SEE STANDARD SHEET E-143
109+50 LT		16" x 16"	W3-1		2.25	1	X			SEE DETAIL ON SHEET 40 OF 57
115+80 LT		30" x 30"	W11-1		6.25	1	X			SEE DETAIL ON SHEET 40 OF 57

SIGN SUMMARY

STATION	SIGN LEGEND	NEW SIGNS				NEW SIGN POSTS				REMARKS
		SIGN DIMENSIONS	MUTCD NO.	SHEET NO.	AREA	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.			
							2.0	2.5	3.0	
117+00 RT		16" x 16"	W3-1		2.25	1	X			SEE DETAIL ON SHEET 40 OF 57
118+71 RT		12" x 14"	M4-12		3.3	1	X			SEE DETAIL ON SHEET 40 OF 57
		24" x 18"	D11-1							
118+73 RT		24" x 18"	D11-1		6.5	1		X		SEE DETAIL ON SHEET 40 OF 57
		14" x 14"	R5-3							
		12" x 18"	R9-6							
118+80 RT		18" x 18"	R1-1		2.25	1	X			SEE STANDARD SHEET E-143
BRICKYARD ROAD		24" x 18"	D11-1		3.75	1	X			SEE DETAIL ON SHEET 40 OF 57
		12" x 9"	W7-6							
BRICKYARD ROAD		30" x 30"	W11-1		6.25	1		X		SEE SHEET BR-2 FOR EXACT LOCATION

11-5-01	REVISED PER STATE REVIEW	DLH
9/24/01	REVISED PER STATE REVIEW	DLH
DATE 8-5-01	REVISED PER STATE REVIEW	DLH
STATE OF VERMONT AGENCY OF TRANSPORTATION		
DESIGN	DLH/MBR	
DRAWN	LAL	
CHECKED	DLH	
DATE	05/05/01	
DATE	8-14-01	
ESSEX TRANSPORTATION PATH TRAFFIC SIGN SUMMARY		
LAMOREUX & STONE		
14 Maple Drive Essex Junction, Vermont 05452 (802) 838-0400		
Consulting Engineers Inc.		

360057

SIGN SUMMARY

STATION	SIGN LEGEND	NEW SIGNS				NEW SIGN POSTS			REMARKS	
		SIGN DIMENSIONS	MUTCD NO.	SHEET NO.	AREA	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.			
							2.0	2.5		3.0
COUNTRYSIDE DRIVE		14' x 14'	D11-1		3.0	1			SEE SHEET C1 FOR LOCATION OF SIGN ON SOUTH SIDE OF COUNTRYSIDE DRIVE. SEE DETAIL ON SHEET 40 OF 57	
		12' x 8'	M7-1		0.75	1	X			
BEECH STREET		36' x 36'	W11-1		6.25	1		X	SEE SHEET C1 FOR LOCATION OF SIGN ALONG EAST SIDE OF BEECH STREET, SOUTH OF PATH TERMINUS. SEE DETAIL ON SHEET 40 OF 57	
BEECH STREET		14' x 14'	D11-1		3.0	1		X	SEE SHEET C1 FOR LOCATION OF SIGN ALONG EAST SIDE OF BEECH STREET, SOUTH OF PATH TERMINUS. SEE DETAIL ON SHEET 40 OF 57	
		12' x 8'	M7-1		0.75	1				
BEECH STREET		36' x 36'	W11-1		6.25	1		X	SEE SHEET C1 FOR LOCATION OF SIGN ALONG WEST SIDE OF BEECH STREET, NORTH OF PATH TERMINUS. SEE DETAIL ON SHEET 40 OF 57	
BEECH STREET		14' x 14'	D11-1		3.0	1		X	SEE SHEET C1 FOR LOCATION OF SIGN ALONG WEST SIDE OF BEECH STREET, NORTH OF PATH TERMINUS. SEE DETAIL ON SHEET 40 OF 57	
		12' x 8'	M7-1		0.75	1				
200+28 LT		18' x 18'	R1-1		2.25	1		X	SEE STANDARD SHEET E-143	
200+50 RT		14' x 14'	R5-3		5.50	1		X	SEE DETAIL ON SHEET 40 OF 57	
		12' x 18'	R9-6							
201+82 LT		14' x 14'	W3-1		2.25	1		X	SEE DETAIL ON SHEET 40 OF 57	
202+50 LT		12' x 8'	M4-12		0.33	1		X	SEE DETAIL ON SHEET 40 OF 57	
		14' x 14'	D11-1		3.0					
203+50 LT		18' x 18'	W1-2		2.25	1		X	SEE STANDARD SHEET E-25 FOR MIRROR IMAGE	

SIGN SUMMARY

STATION	SIGN LEGEND	NEW SIGNS				NEW SIGN POSTS			REMARKS	
		SIGN DIMENSIONS	MUTCD NO.	SHEET NO.	AREA	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.			
							2.0	2.5		3.0
218+80 RT		18' x 18'	R1-1		2.25	1		X	SEE SHEET C2 FOR EXACT LOCATION AND ORIENTATION OF SIGN PLACEMENT. SEE STANDARD SHEET E-143	
218+80 RT		14' x 14'	R5-3		5.50	1		X	SEE SHEET C2 FOR EXACT LOCATION AND ORIENTATION OF SIGN PLACEMENT. SEE DETAIL ON SHEET 40 OF 57	
		12' x 18'	R9-6							
ESSEX WAY		24' x 18'	D11-1		3.0	1		X	SEE SHEET C2 FOR EXACT LOCATION AND ORIENTATION OF SIGN PLACEMENT ALONG EAST SIDE OF ESSEX WAY. SEE DETAIL ON SHEET 40 OF 57	
		12' x 8'	M7-1		0.75	1				
223+00 LT		12' x 36'	TYPE III		3.0	1		X	SEE STANDARD SHEET E-20	
231+13 LT		14' x 14'	W3-1		2.25	1		X	SEE DETAIL ON SHEET 40 OF 57	
233+12 LT		18' x 18'	R1-1		2.25	1		X	SEE STANDARD SHEET E-143	
233+12 RT		14' x 14'	R5-3		5.50	1		X	SEE DETAIL ON SHEET 40 OF 57	
		12' x 18'	R9-6							
233+85 LT		18' x 18'	R1-1		2.25	1		X	SEE STANDARD SHEET E-143	

1:5-D	REVISED PER STATE REVIEW	DLH
DATE: 8/24/98	REVISION: REVISED PER STATE REVIEW	BY: DLH
STATE OF VERMONT AGENCY OF TRANSPORTATION		
ESSEX TRANSPORTATION PATH TRAFFIC SIGN SUMMARY		
LAMOUREUX & STONE 14 Stone Drive Essex Junction, Vermont 05452 (802) 878-4450 Consulting Engineers Inc.		
DRW	CHK	3/05/97

SIGN SUMMARY

STATION	SIGN LEGEND	NEW SIGNS				NEW SIGN POSTS			REMARKS	
		SIGN DIMENSIONS	MUTCD NO.	SHEET NO.	AREA	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.			
							2.0	2.5		3.0
234+02 LT.		18" x 18"	W5-4		2.25	1	X		SEE DETAIL ON SHEET 40 OF 57	
234+23 LT.		18" x 18"	R1-1		2.25	1	X		SEE STANDARD SHEET E-143	
284+91 LT.		24" x 18"	D11-1		3.0		X		SEE DETAIL ON SHEET 40 OF 57	
		12" x 9"	M7-1		0.75	1				
284+97 LT.		24" x 18"	D11-1		3.0				SEE DETAIL ON SHEET 40 OF 57	
		12" x 9"	M7-1		0.75	1		X		
		12" x 18"	R9-6		1.5					
295+86 RT.		18" x 18"	R1-1		2.25	1	X		SEE STANDARD SHEET E-143	
296+20 LT.		18" x 18"	R1-1		2.25	1	X		SEE STANDARD SHEET E-143	
296+55 RT.		24" x 34"	R9-3		5.50	1		X	SEE DETAIL ON SHEET 40 OF 57	
		12" x 18"	R9-6							
296+85 LT.		18" x 18"	W5-4		2.25	1	X		SEE DETAIL ON SHEET 40 OF 57	
297+90 LT.		18" x 18"	W3-1		2.25	1	X		SEE DETAIL ON SHEET 40 OF 57	

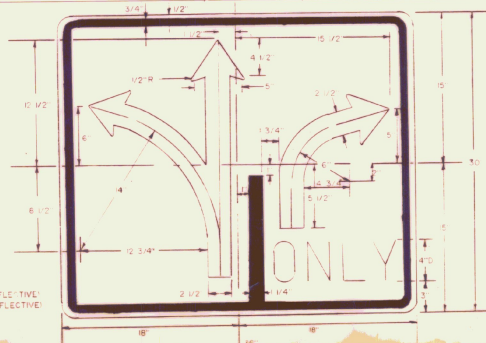
SIGN SUMMARY

STATION	SIGN LEGEND	NEW SIGNS				NEW SIGN POSTS			REMARKS	
		SIGN DIMENSIONS	MUTCD NO.	SHEET NO.	AREA	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.			
							2.0	2.5		3.0
299+15 LT.		24" x 34"	R9-3		5.50	1		X	SEE DETAIL ON SHEET 40 OF 57	
		12" x 18"	R9-6							
299+29 LT.		18" x 18"	R1-1		2.25	1	X		SEE STANDARD SHEET E-143	
316+00 RT.		18" x 18"	W3-1		2.25	1	X		SEE DETAIL ON SHEET 40 OF 57	
316+50 RT.		12" x 9"	M4-12		3.25	1		X	SEE DETAIL ON SHEET 40 OF 57	
		24" x 18"	D11-1							
317+50 LT.		24" x 34"	R9-3		5.50	1		X	SEE DETAIL ON SHEET 40 OF 57	
		12" x 18"	R9-6							
317+60 RT.		18" x 18"	R1-1		2.25	1	X		SEE STANDARD SHEET E-143	
ROUTE 15		24" x 18"	D11-1		3.0	1		X	SIGN TO BE LOCATED APPROXIMATELY 140' WEST OF THE BIKE PATH TERMINUS ON THE SOUTH SIDE OF ROUTE #15.  SEE DETAIL ON SHEET 40 OF 57	
		12" x 9"	M7-1		0.75					
ROUTE 15		24" x 18"	D11-1		3.0	1		X	SIGN TO BE LOCATED APPROXIMATELY 110' EAST OF THE BIKE PATH TERMINUS ON THE NORTH SIDE OF ROUTE #15.  SEE DETAIL ON SHEET 40 OF 57	
		12" x 9"	M7-1		0.75					
400+08 LT.		18" x 18"	R1-1		2.25	1			SEE STANDARD SHEET E-143	
401+00 LT.		18" x 18"	W3-1		2.25	1			SEE DETAIL ON SHEET 40 OF 57	

8-5-BI	REVISED PER STATE REVIEW	DLH
9/24/20	REVISED PER STATE REVIEW	DLH
DATE: 8-15-20	REVISED PER STATE REVIEW	DLH
STATE OF VERMONT AGENCY OF TRANSPORTATION		
ESSEX TRANSPORTATION PATH TRAFFIC SIGN SUMMARY		
LAMOUREUX & STONE 18 Stone Drive Essex Junction, Vermont 05452 (802) 878-4400		
DLH	DLH	DLH
DLH/LAL	DLH/LAL	DLH/LAL
DLH	DLH	DLH
DLH	DLH	DLH
DLH	DLH	DLH
DLH	DLH	DLH

SIGN SUMMARY

STATION	SIGN LEGEND	NEW SIGNS				NEW SIGN POSTS				REMARKS
		SIGN DIMENSIONS	MUTCD NO.	SHEET NO.	AREA	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.			
							2.0	2.5	3.0	
406+00 RT		18" x 18"	W3-1		2.25	1	X			SEE DETAIL ON SHEET 40 OF 57
406+53 RT		12" x 4"	M4-12		3.25	1	X			SEE DETAIL ON SHEET 40 OF 57
		24" x 18"	D11-1							
407+20 RT		18" x 18"	R1-1		2.25	1	X			SEE STANDARD SHEET E-43
407+33 LT		14" x 14"	R5-3		5.50	1		X		SEE DETAIL ON SHEET 40 OF 57
		12" x 18"	R9-6							
ROUTE 15		24" x 18"	D11-1		3.0	1		X		SEE DETAIL ON SHEET 40 OF 57 SIGN TO BE LOCATED APPROXIMATELY 100 FEET WEST OF THE BIKE PATH TERMINUS ON THE SOUTH SIDE OF ROUTE #15
		12" x 9"	M7-1		0.75	1				
ROUTE 15		30" x 30"			6.25	1		X		SEE STANDARD SHEET E-44 FOR MIRROR IMAGE SIGN TO BE LOCATED AT THE BEGINNING OF THE RIGHT TURN LANE SOUTH OF DENSMORE DRIVE
ROUTE 15		36" x 30"			7.50	1		X		SEE DETAIL BELOW SIGN TO BE LOCATED AT THE BEGINNING OF THE RIGHT TURN LANE SOUTH OF BRICKYARD ROAD



COL. ORS  
LEGEND-BLACK (NON-REFLECTIVE)  
BACKGROUND-WHITE (REFLECTIVE)

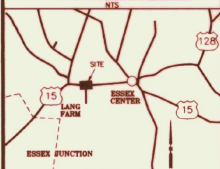
SIGN SUMMARY

STATION	SIGN LEGEND	NEW SIGNS				NEW SIGN POSTS				REMARKS
		SIGN DIMENSIONS	MUTCD NO.	SHEET NO.	AREA	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.			
							2.0	2.5	3.0	
90+25 RT		24" x 6"	M4		1.25	1	X			SEE DETAIL ON SHEET 40 OF 57
		12" x 9"	M7-1							
92+50 LT		18" x 18"	W5-4		2.25	1	X			SEE DETAIL ON SHEET 40 OF 57
		24" x 18"	D11-1		3.75	1	X			SEE DETAIL ON SHEET 40 OF 57
DENSMORE DRIVE		12" x 9"	M1-7							
		12" x 9"	M7-1		.75	1	X			SEE DETAIL ON SHEET 40 OF 57
201+70 RT		18" x 18"	W1-2		2.25	1	X			SEE STANDARD SHEET E-39
ESSEX WAY		30" x 30"	W11-1		6.25	1		X		SEE SHEET 13 FOR EXACT LOCATION SEE DETAIL ON SHEET 40 OF 57
ESSEX WAY		30" x 30"	W11-1		6.25	1		X		SEE SHEET 13 FOR EXACT LOCATION SEE DETAIL ON SHEET 40 OF 57

1-5-36	REVISED PER STATE REVIEW	DLLH
9-24-91	REVISED PER STATE REVIEW	DLLH
10-28-93	REVISED PER STATE REVIEW	DLLH
10-28-93	REVISED PER STATE REVIEW	DLLH
STATE OF VERMONT AGENCY OF TRANSPORTATION		
ESSEX TRANSPORTATION PATH TRAFFIC SIGN SUMMARY		
LAMOUREUX & STONE		
18 Morse Drive Essex Junction, Vermont 05452 (800) 878-4450		
		31 of 57



**LOCATION MAP**



**SHEET INDEX**

1.	TRAFFIC SIGNAL MODIFICATIONS	
2.	SIGNAL MODIFICATIONS DETAILS	
3.	QUANTITY SHEET	
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3-2.	SIDEWALK RAMPS	08-18-89 R
D-20.	HIGHWAY CROSSING FOR UNDERGROUND UTILITIES	10-30-85 R
E-100.	CONSTRUCTION APPROACH SIGNS	10-21-92 R
E-170.	TRAFFIC CONTROL SIGNALS-PEDESTAL POST MOUNTED	06-21-89
E-171A.	TRAFFIC CONTROL SIGNALS-GENERAL NOTES & DETAILS	06-21-89
E-171B.	TRAFFIC CONTROL SIGNALS-MISCELLANEOUS DETAILS	06-21-89
E-172.	VEHICLE DETECTION LOOP DETAILS	09-10-87
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E-191.	PAVEMENT MARKING DETAILS	1-23-89 R

**SIGNAL EQUIPMENT & INSTALLATION SPECIFICATIONS**

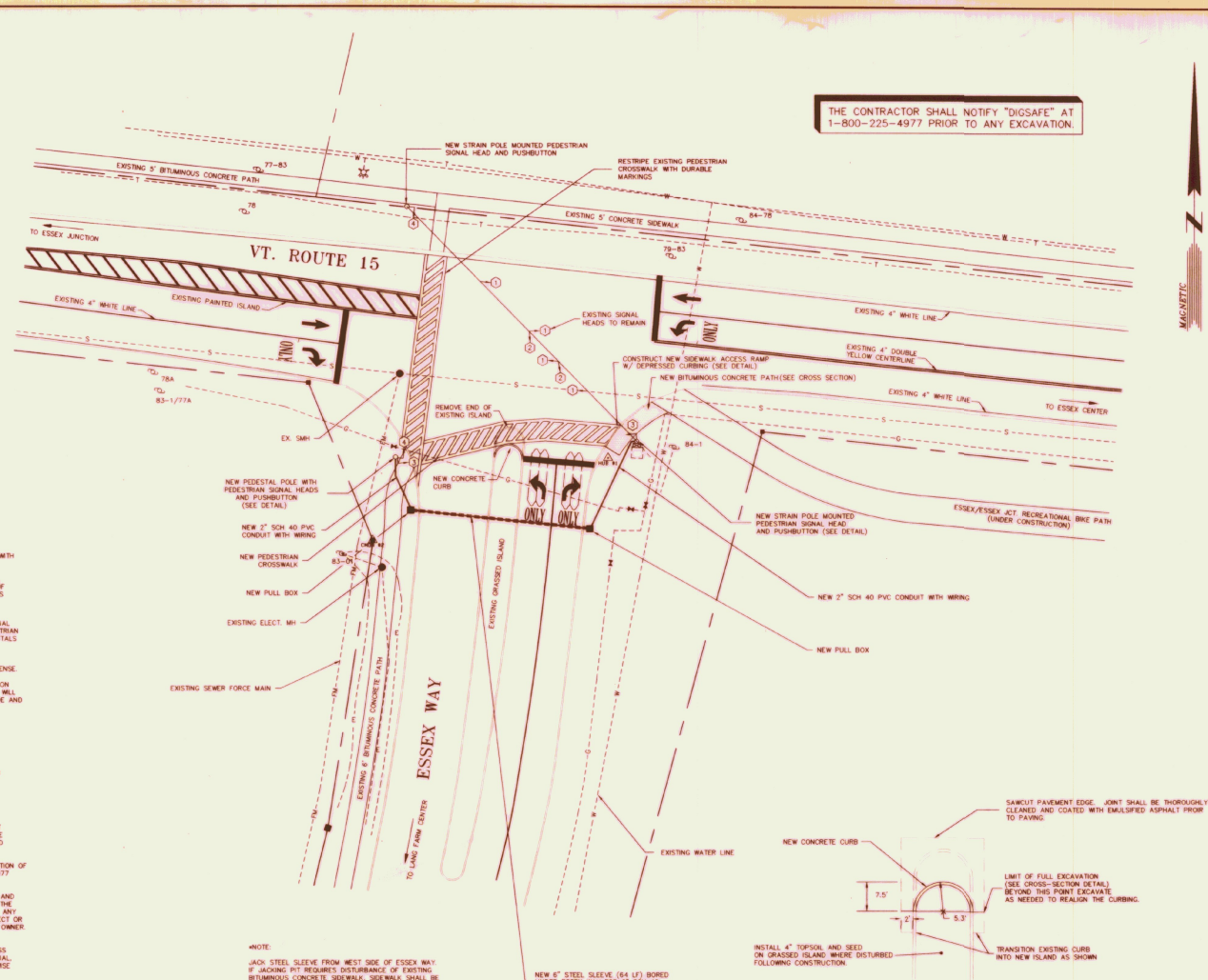
1. NEW PEDESTRIAN SIGNAL HEADS WITH HEADS SHALL BE 16" INCANDESCENT SIGNAL HEADS WITH ALUMINUM HOUSING AND DIAMOND GRATE SUNSCREEN.
2. ALL NEW EQUIPMENT SHALL MEET OR EXCEED VAOT STANDARD SPECIFICATIONS 678 & 752, NEVA STANDARDS AND MSA OR ITS SPECIFICATIONS WHERE APPLICABLE. INSTALLATION OF SIGNAL EQUIPMENT SHALL BE AS DETAILED ON THESE PLANS AND VAOT STANDARD DETAILS E-170, E-171A, E-171B, E-172 AND E-173. COPIES OF THE VAOT STANDARD SPECIFICATIONS AND STANDARD DETAILS ARE ATTACHED TO THIS PLAN SET.
3. THE CONTRACTOR SHALL SUBMIT, FOR APPROVAL, SHOP DRAWINGS FOR EACH TRAFFIC SIGNAL EQUIPMENT ITEM. FOR THIS PROJECT, SHOP DRAWINGS WILL BE REQUIRED FOR THE PEDESTRIAN SIGNAL HEADS, PEDESTRIAN PUSH BUTTON, AND PEDESTAL POLES. SHOP DRAWING SUBMITTALS SHALL CONFORM TO VAOT STANDARD SPECIFICATION 678.02.
4. ANY EQUIPMENT THAT IS DAMAGED BY THE CONTRACTOR DURING REMOVAL SHALL BE REPAIRED OR REPLACED, TO THE SATISFACTION OF THE VAOT, AT THE CONTRACTOR'S EXPENSE.
5. SIGNAL WIRING SHOWN ON THESE PLANS MAY REQUIRE FINE-TUNING IN THE FIELD BASED ON TRAFFIC OBSERVATIONS. FINAL ACCEPTANCE OF THIS PROJECT BY THE OWNER AND VAOT WILL BE SUBJECT TO A 30-DAY TEST PERIOD, DURING WHICH ALL ADJUSTMENTS SHALL BE MADE AND EQUIPMENT PROBLEMS CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

**PAVEMENT MARKING SPECIFICATIONS**

1. ALL NEW PAVEMENT MARKINGS SHALL BE DURABLE MARKINGS.
2. ALL NEW PAVEMENT MARKINGS SHALL CONFORM TO VAOT STANDARD SPECIFICATION 646 & 708 AND SUPPLEMENTAL SPECIFICATION 708.

**GENERAL SPECIFICATIONS**

1. ALL WORK AND MATERIALS SHALL BE APPROVED BY AND IN ACCORDANCE WITH THE LATEST AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE TOWN OF ESSEX REQUIREMENTS, AND THESE PLANS.
2. THE CONTRACTOR SHALL CONTACT ALL UTILITIES BEFORE EXCAVATION TO VERIFY THE LOCATION OF ANY UNDERGROUND LINES. THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-800-225-4977 PRIOR TO ANY EXCAVATION.
3. UTILITIES INFORMATION SHOWN HEREON WERE OBTAINED FROM BEST AVAILABLE SOURCE, AND MAY OR MAY NOT BE EITHER ACCURATE OR COMPLETE. 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. CONTRACTOR SHALL CONNECT OR RECONNECT ALL UTILITIES TO THE NEAREST SOURCE THROUGH COORDINATION WITH UTILITY OWNER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF ALL EXISTING VEGETATION, PAVEMENT AND STRUCTURES NECESSARY TO CONSTRUCT THIS PROJECT UNLESS OTHERWISE NOTED ON THESE PLANS. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS AND TRASH FROM THE SITE UPON COMPLETION OF CONSTRUCTION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
5. ANY SURFACES, LINES, OR STRUCTURES WHICH HAVE BEEN DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THE CONDITION AT LEAST EQUAL TO THAT IN WHICH THEY WERE FOUND IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.
6. THE DESIGN OF THESE PLANS SHALL BE INSPECTED BY LAMOUREUX & STONE CONSULTING ENGINEERS, INC., ESSEX JUNCTION, VERMONT, TO ENSURE COMPLIANCE WITH THE PLANS AND REQUIREMENTS. LAMOUREUX & STONE WAKES 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, AND FROM FAILURE TO HAVE BEEN NOTICED TO INSPECT THE WORKS AND TESTS IN PROGRESS.
7. FOR ANY WORK WITHIN THE HIGHWAY RIGHT-OF-WAY A MINIMUM OF ONE-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. CONTINUOUS TWO-WAY TRAFFIC WILL BE REQUIRED AT NIGHT, DURING PEAK HOURS, AND WHENEVER POSSIBLE DURING ACTUAL CONSTRUCTION ACTIVITIES. UNIFORMED TRAFFIC CONTROL OFFICERS SHALL DIRECT TRAFFIC DURING PEAK HOURS WHEN THERE IS ONE-WAY TRAFFIC OR WHEN DEMAND NECESSARY BY THE TOWN OR STATE. TEMPORARY CONSTRUCTION SIGNS AND TRAFFIC CONTROL SIGNS SHALL BE ERECTED BY THE CONTRACTOR IN ACCORDANCE WITH STATE AND TOWN STANDARDS.
8. TO ASSURE COMPLIANCE WITH THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS IN ADVANCE OF STARTING ANY WORK, CUTTING THE PAVEMENT, BEGINNING THE INSTALLATION OF ANY UTILITIES, BRINGING IN ANY NEW GRAVEL, FOR THE NEW BASE PAVING, AND FINAL INSPECTION IN ORDER TO ASSURE COMPLIANCE WITH THE PLAN.
9. AT COMPLETION OF GRADING, SLOPES, DITCHES, AND ALL DISTURBED AREAS SHALL BE SMOOTH AND FREE OF POCKETS WITH SUFFICIENT SLOPE TO ENSURE DRAINAGE.
10. FINISH SLOPES, DITCHES AND DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 4 INCHES OF TOPSOIL AND BE FERTILIZED, SEED, LIMED, AND MULCHED. TURF ESTABLISHMENT SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 601 OF THE VERMONT HIGHWAY DEPARTMENT SPECIFICATIONS AND THE SPECIFICATIONS INCLUDED ON THESE PLANS.
11. ALL FILL SHALL BE PLACED IN 8 INCH LIFTS AND THOROUGHLY COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM STANDARD PROCTOR, UNLESS OTHERWISE SPECIFIED.



THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-800-225-4977 PRIOR TO ANY EXCAVATION.



**LEGEND**

- - - - - PROPERTY LINE
- CONCRETE CURB
- EXISTING EDGE OF PAVEMENT
- - - - - 4" P.E. GAS MAIN AND VALVE
- - - - - EXISTING SEWER LINE AND MANHOLE
- - - - - EXISTING FORCEMAIN
- - - - - EXISTING WATERLINE AND HYDRANT
- UTILITY POLE
- HYDRANT
- EXISTING SIGNAL HEAD
- NEW PED SIGNAL HEAD
- - - - - EXISTING BURIED UTILITY

REVISED PER STATE REVIEW	6/22/95 MBW
description	date by
REVISIONS	
THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW.	# OF SHEETS
<input type="checkbox"/> SKETCH/CONCEPT	
<input type="checkbox"/> PRELIMINARY	
<input checked="" type="checkbox"/> FINAL	3
<input type="checkbox"/> RECORD DRAWING	

**TOWN OF ESSEX VERMONT**

**ROUTE 15/ESSEX WAY**

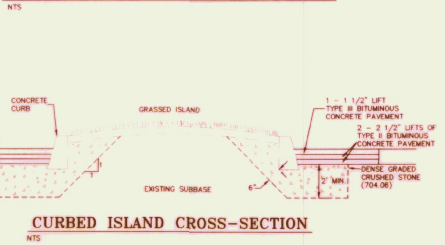
**TRAFFIC SIGNAL MODIFICATIONS**

**LAMOUREUX & STONE**  
 14 Horse Drive  
 Essex Jct., VT 05430  
 87 High Street  
 St. Albans, VT 05478  
 (802) 878-4450  
 (802) 854-5848  
 Consulting Engineers, Inc.

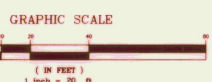


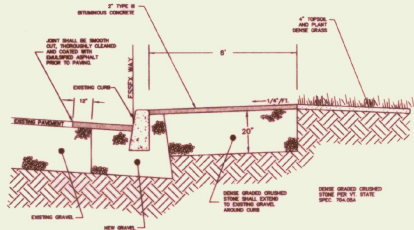
survey	scale
MBW/LHA	1" = 20'
design	date
RJD/MBW	4/29/93
drawn	proj. no.
MBW/JBG	9320
checked	sh. no.
LAL/RJD	
project manager	1 of 3
RJD	

**CURBED ISLAND MODIFICATION DETAIL**



**CURBED ISLAND CROSS-SECTION**



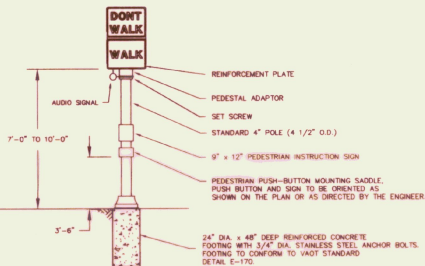


TYPICAL ASPHALT PATH CROSS SECTION

NTS

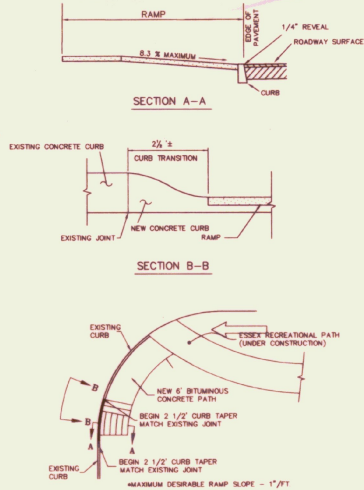
REQUIRED MAJOR TRAFFIC SIGNAL EQUIPMENT (678.15)	
ITEM	QUANTITY
MODIFY EXISTING SIGNAL CONTROLLER	1 EA.
PEDESTRIAN SIGNAL POST	1 EA.
POST MOUNTED PEDESTRIAN SIGNAL HEAD	2 EA.
STRAIN POLE MOUNTED PEDESTRIAN SIGNAL HEAD	2 EA.
PEDESTRIAN PUSH BUTTON ASSEMBLIES	4 EA.
AUDIBLE PEDESTRIAN SIGNAL	4 EA.
PULL BOX (678.25)	2 EA.
WIRED 2" PVC CONDUIT (678.23)	110 L.F.
6" STEEL ELECTRICAL CONDUIT SLEEVE (678.30)	64 L.F.

NOTE:  
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 TRAFFIC SIGNAL SYSTEM.



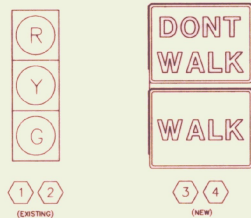
PEDESTRIAN SIGNAL/POLE DETAIL

NTS

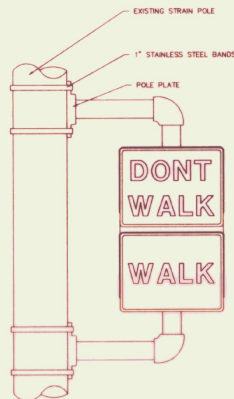


SIDEWALK RAMP DETAIL

NTS



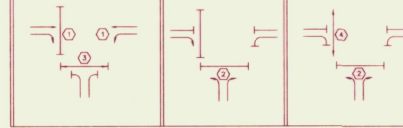
SIGNAL FACE ARRANGEMENT



POLE MOUNTING DETAIL

NTS

SEMI-ACTUATED DWELL PHASE A	INTERSECTION: VERMONT ROUTE 15 & ESSEX WAY												FLASHING OPERATION		
	PHASE A (DWELL) ROUTE 15				PHASE B ESSEX WAY W/O PED				PHASE C ESSEX WAY W/PED						
	R/W	CLEAR TO			R/W	CLEAR TO			R/W	CLEAR TO					
VEH. EXTENSION	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
MIN. GREEN	24	12	3	2	6	3	1	4	11	3	1	-	-	-	-
MAX. GREEN	24	12	3	2	14	3	1	4	11	3	1	-	-	-	-
FACE 1	G	G	Y	R	R	R	R	R	R	R	R	-	-	-	-
FACE 2	R	R	R	R	G	Y	R	G	G	Y	R	-	-	-	-
FACE 3	W	F	F	D	D	D	D	D	D	D	D	-	-	-	-
FACE 4	D	D	D	D	D	D	D	W	F	F	D	-	-	-	-



W = STEADY "WALK"  
F = FLASHING "DON'T WALK"  
D = STEADY "DON'T WALK"  
B = BLANK

SIGNAL TIMING SEQUENCE DIAGRAM

ADDITIONAL SPECIFICATIONS:

- ALL ELECTRICAL WIRE AND CABLE SHALL BE COPPER. ELECTRICAL SIGNAL CABLE FROM TRAFFIC SIGNAL CONTROLLER TO THE NEW PEDESTRIAN HEADS SHALL BE COMPOSED OF 4 C.W. #12 STRANDED CONDUCTORS, AND SHALL MEET THE INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IMSA) WIRE AND CABLE SPECIFICATIONS.
- PEDESTRIAN PUSH BUTTONS SHALL BE MOUNTED 3.5 FEET ABOVE THE SIDEWALK OR GROUND WITH THE "PUSH BUTTON FOR WALK SIGNAL" SIGN MOUNTED IMMEDIATELY ABOVE OR INCORPORATED IN THE PUSH-BUTTON ASSEMBLY SIGNAL UNIT.
- THE PEDESTRIAN SIGNAL HEADS SHALL HAVE AUDIO SIGNALS TO INDICATE ALLOWABLE PEDESTRIAN MOVEMENT FOR THE USUALLY IMPAIRED DURING THE PEDESTRIAN PHASE. THEY SHALL BE OF THE TYPE NORMALLY USED FOR SUCH AN INSTALLATION AND BE WIRED IN SUCH A WAY AS TO BE EASILY DEACTIVATED. PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED AT EACH END OF EACH CROSSWALK WHERE ACTIVATED PEDESTRIAN SIGNALS ARE INSTALLED OR AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL SUBMIT THE PROPOSED SYSTEM FOR PREVIEW PRIOR TO INSTALLATION.
- THE PEDESTRIAN HEADS SHALL HAVE TEXT "WALK", "DON'T WALK", UNLESS OTHERWISE NOTED. THEY SHALL MEET THE LATEST REQUIREMENTS OF THE MUTCD.
- SIGNAL TIMING IS APPROXIMATE AND IS NOT TO BE CONSIDERED FINAL. ALL NECESSARY HARDWARE TO CHANGE THE TIMING SHALL BE ON HAND WHEN THE SIGNALS ARE ACTIVATED. EXISTING SIGNAL CONTROLLER IS AN ECONOLITE KMC-8000 IN A 4-PHASE CABINET. THE RESIDENT ENGINEER SHALL PERFORM CHECKS DURING THE AM AND PM PEAK PERIODS TO INSURE OPTIMUM SETTINGS. IF REQUIRED, APPROPRIATE TIMING CHANGES SHALL BE MADE TO "TUNE" THE CONTROLLER TO ITS BEST EFFICIENCY PRIOR TO THE COMPLETION OF THE PROJECT. TIMING CHANGES WILL NOT EFFECT THE RUNNING OF THE 30 DAY TEST PERIOD.
- THE NEW PEDESTRIAN SIGNALS SHALL NOT OPERATE WITHOUT THE APPROPRIATE PAVEMENT MARKINGS AND RELATED SIGNALING.
- THE NEW PEDESTRIAN SIGNAL HEADS SHALL BE COVERED WITH AN OPAQUE COVERING UNTIL SUCH TIME AS THE SIGNAL SYSTEM IS FUNCTIONAL.
- THE NEW PEDESTRIAN SIGNALS SHALL BE ACTIVATED ONLY UPON THE APPROVAL OF THE ENGINEER.
- IF THE PROJECT INVOLVES REPLACING OR IMPROVING AN EXISTING TRAFFIC SIGNAL, TRAFFIC SHALL BE CONTROLLED BY A UNIFORMED TRAFFIC OFFICER AT ANY TIME THE SIGNAL IS NOT OTHER SEQUENCING AS PER PLAN OR OPERATING ON FLASH. THE SWITCH FROM THE OLD SIGNAL TO THE NEW SIGNAL SHALL BE DONE DURING OFF-PEAK TRAFFIC AND IN SUCH A WAY TO MINIMIZE DOWN TIME.
- TRAFFIC AND PEDESTRIAN SIGNALS MOUNTED ON THE SIDE OF THE SIGNAL POLES MAY BE ATTACHED BY METHODS OTHER THAN THOSE SHOWN. SHOP DRAWINGS MUST BE SUBMITTED TO THE TRAFFIC DESIGN SECTION OF THE VDOT FOR APPROVAL PRIOR TO CONSTRUCTION.
- ALL RIGIDLY MOUNTED TRAFFIC AND PEDESTRIAN SIGNAL HEADS (POST TOP, SIDE OR ARM MOUNTED) SHALL BE HEAVY DUTY ALUMINUM, UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL TRAFFIC SIGNAL POLE OR POST ANCHOR BOLTS SHALL BE STAINLESS STEEL, REFER TO STANDARD E-170 FOR ADDITIONAL DETAILS.

REVISED PER STATE REVIEW	6-2-83	MBW
description	date	by
REVISIONS		
THESE PLANS WITH LATEST REVISIONS SHOULD BE USED FOR THE PURPOSES SHOWN BELOW.		# OF SHEETS
<input type="checkbox"/> SKETCH/CONCEPT		
<input type="checkbox"/> PRELIMINARY		
<input checked="" type="checkbox"/> FINAL		3
<input type="checkbox"/> RECORD DRAWING		

job title

TOWN OF ESSEX VERMONT

ROUTE 15/ESSEX WAY

sheet title

SIGNAL MODIFICATION DETAILS

LAMOUREUX & STONE  
14 Morse Drive Essex, VT 05452 27 High Street St. Albans, VT 05478  
(802) 878-4450 (802) 524-5245  
Consulting Engineers Inc.



survey	scale
----	AS-SHOWN
design	date
RJD/MBW	4/26/93
drawn	proj. no.
MBW/JBG	9320
checked	sht. no.
LAL/RJD	2 of 3
project manager	
RJD	

