

INDEX OF SHEETS

- SHEET NO. 1. Composite Title Sheet
 2. Composite Quantity Sheet
 (The following sheets are from I 91-2(5) Stage 1 Constr.)
 3. Alignment Data Sheet
 4. Typical Sections
 5. Quantity Sheet
 6. Item Detail & Drainage Sheet
 7-8. Grade Sheet
 9-16. Plan and Profile Sheets
 15. Blank
 16. Blank
 (The following sheets are from I 91-2(10) Stage 1 Constr.)
 17. Alignment Data Sheet
 18-19. Typical Sections-Median
 20. Typical Sections-Shoulders
 21. Quantity Sheet
 22-25. Item Detail & Drainage Sheets
 26-27. Grade Sheets
 28-30. Plan & Profile Sheets
 31-33. 10-Scale Detail Drawings
 40-46. Bridge Sheets (19) over Vt. 10A
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 (The following sheets are from I 91-2(18) Stage 1 Constr.)
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 48-49. Typical Sections
 50. Quantity Sheet
 51-53. Item Detail and Drainage Sheets
 54-59. Grade Sheets
 60-76. Plan & Profile Sheets (3) over Vt. 10A
 77-84. Bridge Sheets (1) over US 5
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 86. Blank
 87. Overhead Traffic Sign Support
 88-89. Traffic Sign Design and Construction Details (Also #9-A)
 90. Traffic Sign Assembly and Construction Details
 91-93. Traffic Sign and Indicator Summary Sheets
 94-97. Traffic Sign and Indicator Location Sheets
 98. S-1 Banking Tables 7/17/67
 99. S-5 Typical Slope Grading 8/18/65
 100. S-1 Curb 3/10/66
 101. S-1 Curb 3/10/66
 102. S-3 Visc. Matting & Treated Outlets 7/19/67
 103. S-1 C.I. Cover for ACCOMP Finishing Basin 8/1/66
 104. S-8 Drop Inlets 8/10/65
 105. S-5 Drop Inlet Tops 7/10/65
 106. S-10 Drop Inlet Tops 3/10/66
 107. S-15 Precast Drop Inlets 7/16/67
 108. S-11 Interstate Route Markers 8/28/64

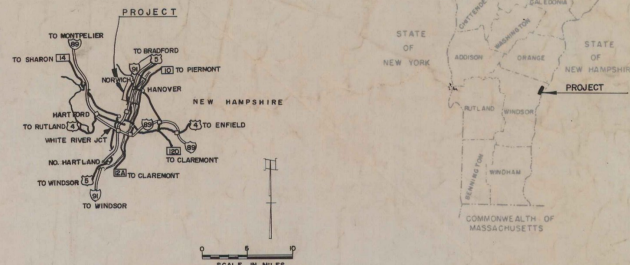
109. E-12 U. S. Route Markers 8/28/64 R
 110. E-13 State Route Markers 3/28/64 R
 111. E-14 Regulatory Signs 8/12/63 R
 112. E-15 Regulatory Signs 8/12/63 R
 113. E-16 Warning Signs 12/16/64 R
 114. E-17 Guide Signs 1/18/66 R
 115. E-18 Guide Signs 12/16/64 R
 116. E-19 Standard Sign Placement 1/4/66 R
 117. E-20 Indicators, Hazard Markers and Hiways 3/23/67 R
 118. E-21 Ground Mounted Sign Supports 3/7/66 R
 119. E-31 Federal Aid Construction Identification Signs 8/21/67 R
 120. E-32 Road Construction Approach Signs 1/6/67
 121. E-33 Bridge Construction Approach Signs 1/6/67
 122. E-34 On-Project Construction Signs 5/3/67 R
 123. G-1 Standard Steel Beam Guard Rail with Steel Posts 8/5/67 R
 124. G-4 Steel Marker Posts 12/30/66 R
 125. G-6 Three Cable Guard Rail with Light Steel Posts 8/31/67
 126. G-7 Three Cable Guard Rail with Light Steel Posts 8/31/67
 127. G-8 Bridge Railing (For Bridge Approaches) 8/18/67 R
 128. G-9 Bridge Railing (For Bridge Approaches) 8/12/67 R
 129. J-1 Erection of Project Markers 3/10/65

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT
 INTERSTATE PROJECT
 TOWNS OF HARTFORD-NORWICH
 COUNTY OF WINDSOR
 INTERSTATE ROUTE 91
 WINDSOR-BRADFORD-ROAD

BEGINNING AT A POINT 0.653 MILE SOUTH OF THE HARTFORD-NORWICH TOWN LINE AND EXTENDING NORTHERLY 3.189 MILES
 LENGTH OF ROADWAY 16,504.03 FEET = 3.125 MILES
 LENGTH OF BRIDGES 391.19 FEET = 0.074 MILE
 LENGTH OF PROJECT 16,895.22 FEET = 3.199 MILES

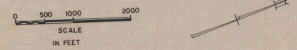
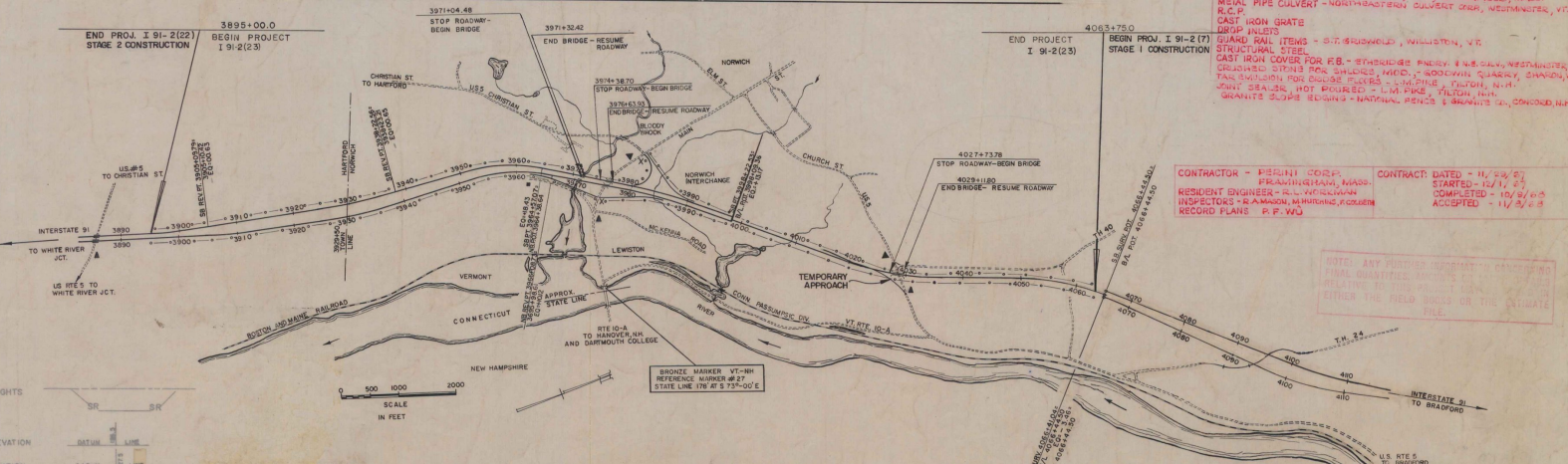
	SOUTH	NORTH
ADT 1962	2600	2440
ADT 1987	7380	6650
DHV 1987	1050	940
D	51%	54%
T	6%	6%
V	60	60



PROJECT NAME & NUMBER
 HARTFORD-NORWICH I 91-2(5) OR CONCRETE
 RECORD PLANS
 TYPE PAVEMENT
 CONCRETE
 MATERIALS
 SUB-BASE OF GRAVEL - FARELL PIT, NORWICH, VT.
 SUB-BASE OF SAND -
 GRAVEL BACKFILL -
 COLLECTED GRAVEL -
 REFINED TAR - L.M. PIKE & SON, INC., W. LEBANON, NH.
 OUTSIDE ASPHALT - HUNDELL OIL & REFINING CO., EVANSTON, ILL.
 SAND-GRANULAR FRACTION
 FOR SEAL
 CONCRETE CLASS
 BIT. CON. PAVEMENT - L.M. PIKE & SON, INC., DUNTON, NH.
 REINFORCING STEEL - W.W. WYMAN, INC., GREENFIELD, MASS.
 METAL PIPE CULVERT - NORTHAMPTON CULVERT CO., NORTHAMPTON, VT.
 R.C.P.
 CAST IRON GRATE
 GRIP INLETS
 GUARD RAIL ITEMS - S.P. GRANVILLE, WILLISTON, VT.
 STRUCTURAL STEEL
 CAST IRON COVER FOR F.B. - STANBRIDGE ENGRY & MFG. CO., WESTMINSTER, VT.
 GRAVELLED STONE FOR CHANNELS, MED. - ROCKWELL QUARRY, CHANDLER, VT.
 TAR (EMULSION FOR BRIDGE DECKS) - S.M. HILL, DUNTON, NH.
 JOINT SEALER, HOT POURABLE - L.M. PIKE, FULTON, NH.
 GRANITE CURBS, RETAINING - MATHIAS, PERCIE & GRANITE CO., CONCORD, NH.

CONTRACTOR - PERINI CORP.
 RESIDENT ENGINEER - H. W. WILSON
 INSPECTORS - R. A. MASON, M. H. MORTON, G. COLBURN
 CONTRACT DATED - 11/28/61
 STARTED - 12/1/61
 COMPLETED - 10/9/65
 ACCEPTED - 11/3/65

NOTE: ANY FURTHER REVISIONS OR REVISIONS TO FINAL DRAWINGS MUST BE MADE BY THE ENGINEER RELATED TO THIS PROJECT OR BY THE FIELD OFFICE EITHER IN THE FIELD BOOKS OR THE ESTIMATE FILE.



HARTFORD-NORWICH
 1990

- CONVENTIONAL SIGNS
 SLOPE RIGHTS
 GROUND ELEVATION
 GRADE ELEVATION
 CURVE DATA
 DEFLECTION OF ANGLE
 DEGREE OF CURVE
 RADIUS OF CURVE
 TANGENT DISTANCE
 LENGTH OF CURVE
 EXTERNAL DISTANCE
 POINT OF INTERSECTION
 POINT OF CURVE
 POINT OF TANGENT
 POINT ON TANGENT
 POINT ON SUB-TANGENT
 POINT LIMITS

APPROVED: [Signatures] DATE: 10/10/67
 APPROVED: [Signatures] DATE: 10/10/67
 APPROVED: [Signatures] DATE: 10/10/67
 APPROVED: [Signatures] DATE: 10/10/67
 APPROVED: [Signatures] DATE: 10/11/67
 APPROVED: [Signatures] DATE: 10/11/67

DEPARTMENT OF TRANSPORTATION
 BUREAU OF PUBLIC ROADS
 APPROVED
 DIVISION ENGINEER DATE
 PROJECT I NO. 91-2(23)
 STAGE 2 CONSTRUCTION
 SHEET 1 OF 129 SHEETS

581

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- 2. Composite Quantity Sheet
- 3. Alignment Data Sheet
- 4. Typical Sections
- 5. Quantity Sheet
- 6. Item Detail & Drainage Sheet
- 7-9. Plans and Profile Sheets
- 10. Blank
- 11-16. (The following sheets are from 1 3/4" x 11" Stage 1 Cover.)
- 17. Alignment Data Sheet
- 18-19. Typical Sections-Dumps
- 20. Quantity Sheet
- 21. Item Detail & Drainage Sheet
- 22-23. Plans and Profile Sheets
- 24-27. Bridge Sheets
- 28-30. 20-Scale Detail Drawings
- 31-33. Bridge Sheets (19' over Vt 104)
- 34. Blank
- 35. Blank
- 36. Blank
- 37. Overhead Traffic Sign Support
- 38-39. Traffic Sign Design and Construction Details
- 40-41. Traffic Sign and Bollard Location Sheets
- 42-43. Traffic Sign and Bollard Location Sheets
- 44. C-1 Curve 3/10/65
- 45. C-2 Curve 3/10/65
- 46. C-3 Curve 3/10/65
- 47. C-4 Curve 3/10/65
- 48. C-5 Curve 3/10/65
- 49. C-6 Curve 3/10/65
- 50. C-7 Curve 3/10/65
- 51. C-8 Curve 3/10/65
- 52. C-9 Curve 3/10/65
- 53. C-10 Curve 3/10/65
- 54. C-11 Curve 3/10/65
- 55. C-12 Curve 3/10/65
- 56. C-13 Curve 3/10/65
- 57. C-14 Curve 3/10/65
- 58. C-15 Curve 3/10/65
- 59. C-16 Curve 3/10/65
- 60. C-17 Curve 3/10/65
- 61. C-18 Curve 3/10/65
- 62. C-19 Curve 3/10/65
- 63. C-20 Curve 3/10/65
- 64. C-21 Curve 3/10/65
- 65. C-22 Curve 3/10/65
- 66. C-23 Curve 3/10/65
- 67. C-24 Curve 3/10/65
- 68. C-25 Curve 3/10/65
- 69. C-26 Curve 3/10/65
- 70. C-27 Curve 3/10/65
- 71. C-28 Curve 3/10/65
- 72. C-29 Curve 3/10/65
- 73. C-30 Curve 3/10/65
- 74. C-31 Curve 3/10/65
- 75. C-32 Curve 3/10/65
- 76. C-33 Curve 3/10/65
- 77. C-34 Curve 3/10/65
- 78. C-35 Curve 3/10/65
- 79. C-36 Curve 3/10/65
- 80. C-37 Curve 3/10/65
- 81. C-38 Curve 3/10/65
- 82. C-39 Curve 3/10/65
- 83. C-40 Curve 3/10/65
- 84. C-41 Curve 3/10/65
- 85. C-42 Curve 3/10/65
- 86. C-43 Curve 3/10/65
- 87. C-44 Curve 3/10/65
- 88. C-45 Curve 3/10/65
- 89. C-46 Curve 3/10/65
- 90. C-47 Curve 3/10/65
- 91. C-48 Curve 3/10/65
- 92. C-49 Curve 3/10/65
- 93. C-50 Curve 3/10/65
- 94. C-51 Curve 3/10/65
- 95. C-52 Curve 3/10/65
- 96. C-53 Curve 3/10/65
- 97. C-54 Curve 3/10/65
- 98. C-55 Curve 3/10/65
- 99. C-56 Curve 3/10/65
- 100. C-57 Curve 3/10/65
- 101. C-58 Curve 3/10/65
- 102. C-59 Curve 3/10/65
- 103. C-60 Curve 3/10/65
- 104. C-61 Curve 3/10/65
- 105. C-62 Curve 3/10/65
- 106. C-63 Curve 3/10/65
- 107. C-64 Curve 3/10/65
- 108. C-65 Curve 3/10/65
- 109. C-66 Curve 3/10/65
- 110. C-67 Curve 3/10/65
- 111. C-68 Curve 3/10/65
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- 115. C-72 Curve 3/10/65
- 116. C-73 Curve 3/10/65
- 117. C-74 Curve 3/10/65
- 118. C-75 Curve 3/10/65
- 119. C-76 Curve 3/10/65
- 120. C-77 Curve 3/10/65
- 121. C-78 Curve 3/10/65
- 122. C-79 Curve 3/10/65
- 123. C-80 Curve 3/10/65
- 124. C-81 Curve 3/10/65
- 125. C-82 Curve 3/10/65
- 126. C-83 Curve 3/10/65
- 127. C-84 Curve 3/10/65
- 128. C-85 Curve 3/10/65
- 129. C-86 Curve 3/10/65
- 130. C-87 Curve 3/10/65
- 131. C-88 Curve 3/10/65
- 132. C-89 Curve 3/10/65
- 133. C-90 Curve 3/10/65
- 134. C-91 Curve 3/10/65
- 135. C-92 Curve 3/10/65
- 136. C-93 Curve 3/10/65
- 137. C-94 Curve 3/10/65
- 138. C-95 Curve 3/10/65
- 139. C-96 Curve 3/10/65
- 140. C-97 Curve 3/10/65
- 141. C-98 Curve 3/10/65
- 142. C-99 Curve 3/10/65
- 143. C-100 Curve 3/10/65

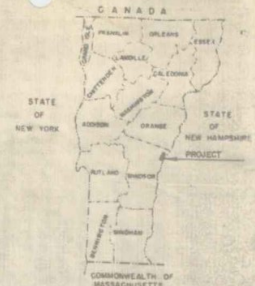
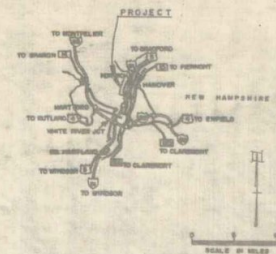
- 106. C-12 0. S. Stone Markers 8/26/68 R
- 107. C-13 State Stone Markers 8/26/68 R
- 108. C-14 Regulatory Signs 8/12/68 R
- 109. C-15 Regulatory Signs 8/12/68 R
- 110. C-16 Warning Signs 12/18/68 R
- 111. C-17 Curve Signs 1/16/68 R
- 112. C-18 Curve Signs 12/18/68 R
- 113. C-19 Standard Sign Placement 1/6/68 R
- 114. C-20 Delineators, Hazard Markers and All-Weather 3/23/67 R
- 115. C-21 Round Mounted Sign Supports 3/27/68 R
- 116. C-22 Federal Aid Construction Identification Signs 8/23/67 R
- 117. C-23 Road Construction Approach Signs 1/6/67
- 118. C-24 Bridge Construction Approach Signs 1/6/67
- 119. C-25 On-Project Construction Signs 5/28/67 R
- 120. C-26 Standard Steel Beam Guard Rail with Steel Posts 8/31/67 R
- 121. C-27 Three Cable Guard Rail with Light Steel Posts 8/31/67
- 122. C-28 Bridge Railing (For Bridge Approaches) 8/18/67 R
- 123. C-29 Bridge Railing (Four Bridge Approaches) 12/16/67 R
- 124. C-30 Erection of Project Markers 3/10/65

STATE OF VERMONT DEPARTMENT OF HIGHWAYS

PROPOSED IMPROVEMENT INTERSTATE PROJECT TOWNS OF HARTFORD-NORWICH COUNTY OF WINDSOR INTERSTATE ROUTE 91 WINDSOR-BRADFORD-ROAD

BEGINNING AT A POINT 0.653 MILE SOUTH OF THE HARTFORD-NORWICH TOWN LINE AND EXTENDING NORTHERLY 3.255 MILES LENGTH OF ROADWAY 46,504.03 FEET = 3.125 MILES LENGTH OF BRIDGES 3,911.19 FEET = 0.074 MILE LENGTH OF PROJECT 16,895.22 FEET = 3.099 MILES

ADT 1962	2600	2440
ADT 1967	7580	6650
DIV 1967	1050	940
D	91%	54%
T	6%	6%
V	60	28%



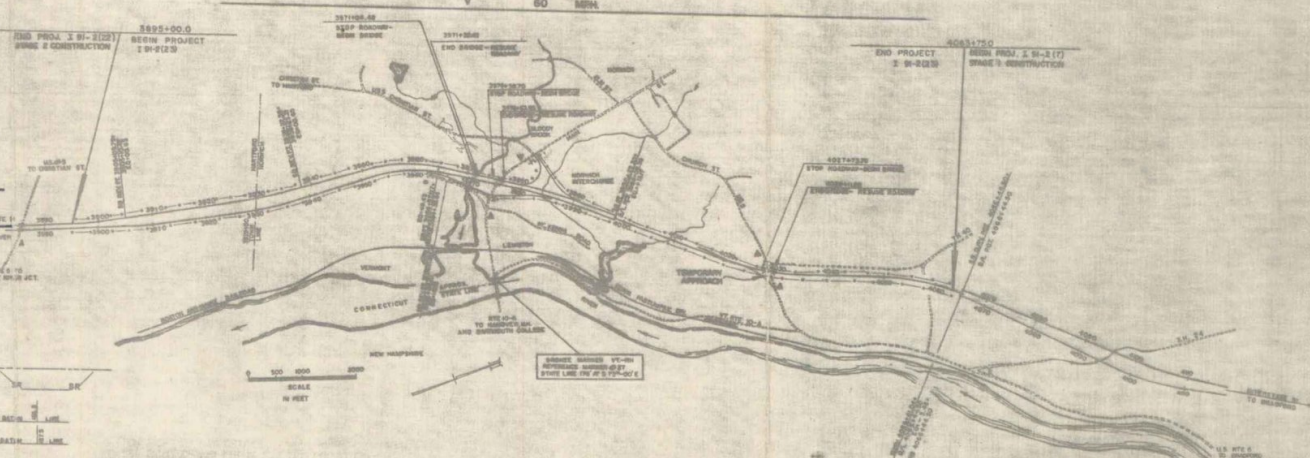
THESE PLANS HAVE BEEN REDUCED PHOTOGRAPHICALLY TO APPROXIMATELY 1/8" SCALE

Dated 29 NOV 67

FERINI CORPORATION

Louis L. Capone
Louis L. Capone, Vice Pres.
Contractor

L. J. Hansen
Commissioner of Highways



- CONVENTIONAL SIGNS
- POINT OF ACCESS
- LIMITS OF ACCESS
- COUNTY LINE
- TOWN LINE
- STONE WALL
- UNIMPROVED PROPERTY
- BURD RAIL
- TRAVELED WAY
- RAILROAD
- RETAINING WALL
- CENTER LINE
- SURVEY LINE
- CURTAIN
- DROP RILEY
- TROLLEY POLE
- POWER POLE
- TELEPHONE POLE
- WIRE
- WEDGE
- FA-CONSTRUCTION IDENTIFICATION SIGNS
- SURVEY RIGHTS
- GROUND ELEVATION
- GRADE ELEVATION
- CURVE DATA
- DEFLECTION OF ANGLE
- DEGREE OF CURVE
- RADIUS OF CURVE
- TANGENT DISTANCE
- LENGTH OF CURVE
- EXTERNAL DISTANCE
- POINT OF INTERSECTION
- POINT OF CURVE
- POINT OF TANGENT
- POINT ON TANGENT
- POINT ON SUB-TANGENT
- CON. LIMITS

APPROVED *J. J. Chan* DISTRICT ENGINEER DATE 11/12/67

APPROVED *R. J. ...* DISTRICT ENGINEER DATE 11/12/67

APPROVED *...* DISTRICT ENGINEER DATE 11/12/67

APPROVED *...* DISTRICT ENGINEER DATE 11/12/67

APPROVED *...* DISTRICT ENGINEER DATE 11/12/67

APPROVED *...* DISTRICT ENGINEER DATE 11/12/67

APPROVED *...* DISTRICT ENGINEER DATE 11/12/67

DEPARTMENT OF TRANSPORTATION BUREAU OF PUBLIC ROADS

APPROVED _____

DIVISION ENGINEER DATE _____

PROJECT 1 NO 91-2123

STAGE 2 CONSTRUCTION

SHEET 1 OF 24 SHEETS

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QUANTITY SHEET

STATE OF VERMONT DEPARTMENT OF HIGHWAYS

PROJECT NO. _____

SUMMARY SHEET NO. _____ OF _____ 19 _____

APPROXIMATE SUMMARY OF QUANTITIES

LANDSCAPING	EROSION CONTROL	BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
				1,000	C.Y.	Common Excavation, Est.	101-A1	
				1,000	C.Y.	Borrow, Est.	104	
				500	C.Y.	Granular Borrow, Est.	105	
				100	C.Y.	Trench Excav. of Earth (Incl. @ Est.)	106-A	
				20	C.Y.	Trench Excav. of Rock Est.	106-B	
				57,600	S.Y.	Fine Grading-Subgrade	107	
				200	W/G	Dust Control w/Water, Est.	112	
				1	Ton	Dust & Ice Control w/Calc. Chloride, Est.	113	
				15	Hr.	All Purpose Excavator Rental, Est.	124	
				5,650	C.Y.	Sub-base of Gravel, Mod.	201	
				30,200	C.Y.	Sub-base of Crushed Rock	204	
				6,600	Ton	Crushed Gravel or Crushed Stone Plant Mixed Base course	213	
				22600	CY/MI	Overhaul, 4.0 MI.	221	
				990	C.Y.	Stripping of Gravel Pits, Est.	223	
				750	C.Y.	Crushed Stone Shoulders, Mod.	303	
				4,120	Gal.	Tack Coat, Type III, Mod.	315	
				1,131	Gal.	Tar Emulsion for Bridge Floors	318	
				5100	Ton	Bit. Conc. Pavement, Mod.	361	
				15	Hr.	Front Rolling, Est.	365	
				88	L.F.	Joint Sealer	372-A	
				5	C.Y.	Concrete Class B, Est.	401-B	
				500	Lb.	Reinforcing Steel, Est.	402	
				5	C.Y.	Cement Rubble Masonry, Est.	411	
				48	L.F.	8" Asph. Ctd. Corr. Galv. Met. Pipe, 16 Ga. (Incl. 30' Est.)	928-B	
				6	Eq.	Cast Iron Cover for Asph. Ctd. Corr. Galv. Met. Pipe Flushing Basins (Incl. 1 Est.)	526	
				11	Eq.	Change in Elevations of Catch Basins or Manholes	532	
				104	L.F.	Shoulder Steel Beam Guard Rail w/10' St. Posts (6-8' Spacing)	545-A	
				2,268	L.F.	Three Cable Guard Rail w/10' St. Posts	549	
				4	Eq.	Anchors for Three Cable Guard Rail w/10' St. Posts (To be used with St. Beam Guard Rail)	544	
				35	Eq.	Steel Marker Posts (Incl. 6 Est.)	557-D	
				16	Ton	Bit. Conc. Surf. for Gut. & Tr. Islands, Mod.	558	
				86	Ton	Bit. Conc. Curb, Mod.	555	
				600	L.F.	Granite Slope Edding	556-A	
				25	Eq.	Boundary Markers, Est.	567	
				1487.5	L.F.	Brimm Railing for Bridge Approaches	572	
				1/3	L.S.	Field Office - Asphalt Pavts	244-B	
				1/3	L.S.	Field Office - Concrete	580-A	
				1	Acres	Selective Thinning & Trimming, Est.	601	
				800	Lb.	Seeding	611	
				11,710	Lb.	Fertilizer	615	
				9	Ton	Ground Limestone	616	
				1,000	S.Y.	Seeding, Est.	612	
				1,235	C.Y.	Topsoil	621	
				9	Ton	Mat	622	
				50	S.Y.	Jute Matting, Est.	623	
				249	S.F.	Traffic Signs	701	
				249	Eq.	Detonators	702	
				10	Eq.	Anch. for Three Cable G.R. w/10' Steel Posts, Type A	580-A	
				2	Eq.	Anch. for Three Cable G.R. w/10' St. Posts, Type B	580-B	
				1,000	L.F.	6" Perf. Corr. Galv. Met. Underdrain, Mod., Est.	521-1A	
				200	C.Y.	Stone Fill for Slope Protection (Lt. Type) Est.	512	
				3	Eq.	Precast Reinforced Conc. Curb Drop Inlets, Est.	531	
				200	L.F.	12" Asph. Ctd. Corr. Galv. Met. Pipe, Est., 16 Ga.	928-D	

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		TRENCH EXCAVATION OF EARTH
31	C.Y.	Per Drainage Sheet
69	C.Y.	Est.
100	C.Y.	TOTAL
		FINE GRADING-SUBGRADE
41,551	S.Y.	Mainline
15,722	S.Y.	Ramps
221	S.Y.	U-Turn
106	S.Y.	Rounding
57,600	S.Y.	TOTAL
		SUB-BASE OF GRAVEL, MOD.
2,796	C.Y.	Mainline
1,772	C.Y.	Ramps
19	C.Y.	Per Drainage Sheet
24	C.Y.	U-Turn
29	C.Y.	Rounding
5,600	C.Y.	TOTAL
		SUB-BASE OF CRUSHED ROCK
20,586	C.Y.	Mainline
9,553	C.Y.	Ramps
31	C.Y.	Rounding
30,200	C.Y.	TOTAL
		CRUSHED GRAVEL OR CRUSHED STONE BASE COURSE
4,587	Ton	Mainline
1,971	Ton	Ramps
92	Ton	Rounding
6,600	Ton	TOTAL
		CRUSHED STONE SHOULDERS
488	C.Y.	Mainline
221	C.Y.	Ramps
46	C.Y.	Rounding
750	C.Y.	TOTAL
		TACK COAT, TYPE III, MOD.
3,044	Gal.	Mainline
1,071	Gal.	Ramps
5	Gal.	Rounding
4,120	Gal.	TOTAL
		BITUMINOUS CONCRETE PAVEMENT
2,908	Ton	Mainline (Roadway)
1,322	Ton	Ramps (Roadway)
277	Ton	Mainline (Shoulders)
190	Ton	Ramps (Shoulders)
14	Ton	Rounding
287	Ton	Bridge - V 10-A over I-9
5100	Ton	TOTAL
		BITUMINOUS CONCRETE SURFACE FOR GUTTERS AND TRAFFIC ISLANDS
15	Ton	Gutters
1	Ton	Rounding
16	Ton	TOTAL

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		TRENCH EXCAVATION OF EARTH
31	C.Y.	Per Drainage Sheet
69	C.Y.	Est.
100	C.Y.	TOTAL
		FINE GRADING-SUBGRADE
41,551	S.Y.	Mainline
15,722	S.Y.	Ramps
221	S.Y.	U-Turn
106	S.Y.	Rounding
57,600	S.Y.	TOTAL
		SUB-BASE OF GRAVEL, MOD.
2,796	C.Y.	Mainline
1,772	C.Y.	Ramps
19	C.Y.	Per Drainage Sheet
24	C.Y.	U-Turn
29	C.Y.	Rounding
5,600	C.Y.	TOTAL
		SUB-BASE OF CRUSHED ROCK
20,586	C.Y.	Mainline
9,553	C.Y.	Ramps
31	C.Y.	Rounding
30,200	C.Y.	TOTAL
		CRUSHED GRAVEL OR CRUSHED STONE BASE COURSE
4,587	Ton	Mainline
1,971	Ton	Ramps
92	Ton	Rounding
6,600	Ton	TOTAL
		CRUSHED STONE SHOULDERS
488	C.Y.	Mainline
221	C.Y.	Ramps
46	C.Y.	Rounding
750	C.Y.	TOTAL
		TACK COAT, TYPE III, MOD.
3,044	Gal.	Mainline
1,071	Gal.	Ramps
5	Gal.	Rounding
4,120	Gal.	TOTAL
		BITUMINOUS CONCRETE PAVEMENT
2,908	Ton	Mainline (Roadway)
1,322	Ton	Ramps (Roadway)
277	Ton	Mainline (Shoulders)
190	Ton	Ramps (Shoulders)
14	Ton	Rounding
287	Ton	Bridge - V 10-A over I-9
5100	Ton	TOTAL
		BITUMINOUS CONCRETE SURFACE FOR GUTTERS AND TRAFFIC ISLANDS
15	Ton	Gutters
1	Ton	Rounding
16	Ton	TOTAL

TYPE OF CONSTRUCTION

STATIONS		PAVEMENT WIDTHS			EQUATIONS	
FROM	TO	ROADWAY	BRIDGE	BRIDGE	+	-
		24'	36'	38'	42'	
NORTHBOUND						
3862+00	3866+08.73	408.73				
3865+88.61	3870+86.03	487.42				10.12
3870+86.03	3871+13.97		27.94			Bridge
3871+13.97	3874+23.10	309.13				
3874+23.10	3876+43.10			220.00		Bridge
3876+43.10	3896+00	1956.90				
TOTAL NORTHBOUND		3162.18	27.94	220.00		TOTAL NB BRIDGES 247.94
SOUTHBOUND						
3862+00	3864+57.07	257.07				
3864+58.64	3871+22.93	684.29				18.43
3871+22.93	3871+50.87		27.94			Bridge
3871+50.87	3874+60.28	309.41				
3874+60.28	3876+80.28			220.00		Bridge
3876+80.28	3896+00	1919.72				
TOTAL SOUTHBOUND		3170.40	27.94	220.00		TOTAL SB BRIDGES 247.94
TOTAL NB		3162.18				
TOTAL SB		3170.40				
TOTAL		6332.58	55.88	440.00	440.00	
			3166.385			
TOTALS						
LENGTH OF PROJECT						
STATIONS	FEET	MILES	REMARKS			
See Above	3166.33	0.600	Roadway			
	247.94	0.047	Bridges			
TOTALS						
	3414.27	0.647				
N O R W I C H						
STAGE II CONSTRUCTION 1 91-2(40)						
No. Sheet 21 of 129 Filed Sheets						

12" SUB-BASE OF SAND ITEM 202		
STATION	STATION	POS
NORTHBOUND		
4024+00	4025+00	VT
SOUTHBOUND		
4024+00	4025+00	VT

STONE FILL FOR SLOPE PROTECTION (LIGHT TYPE) ITEM 542		
STATION	STATION	POS
NORTHBOUND		
4024+00	4025+00	VT
SOUTHBOUND		
4024+00	4025+00	VT

RIP RAP (LIGHT TYPE) ITEM 543-B		
STATION	STATION	POS
NORTHBOUND		
4024+00	4025+00	VT
SOUTHBOUND		
4024+00	4025+00	VT

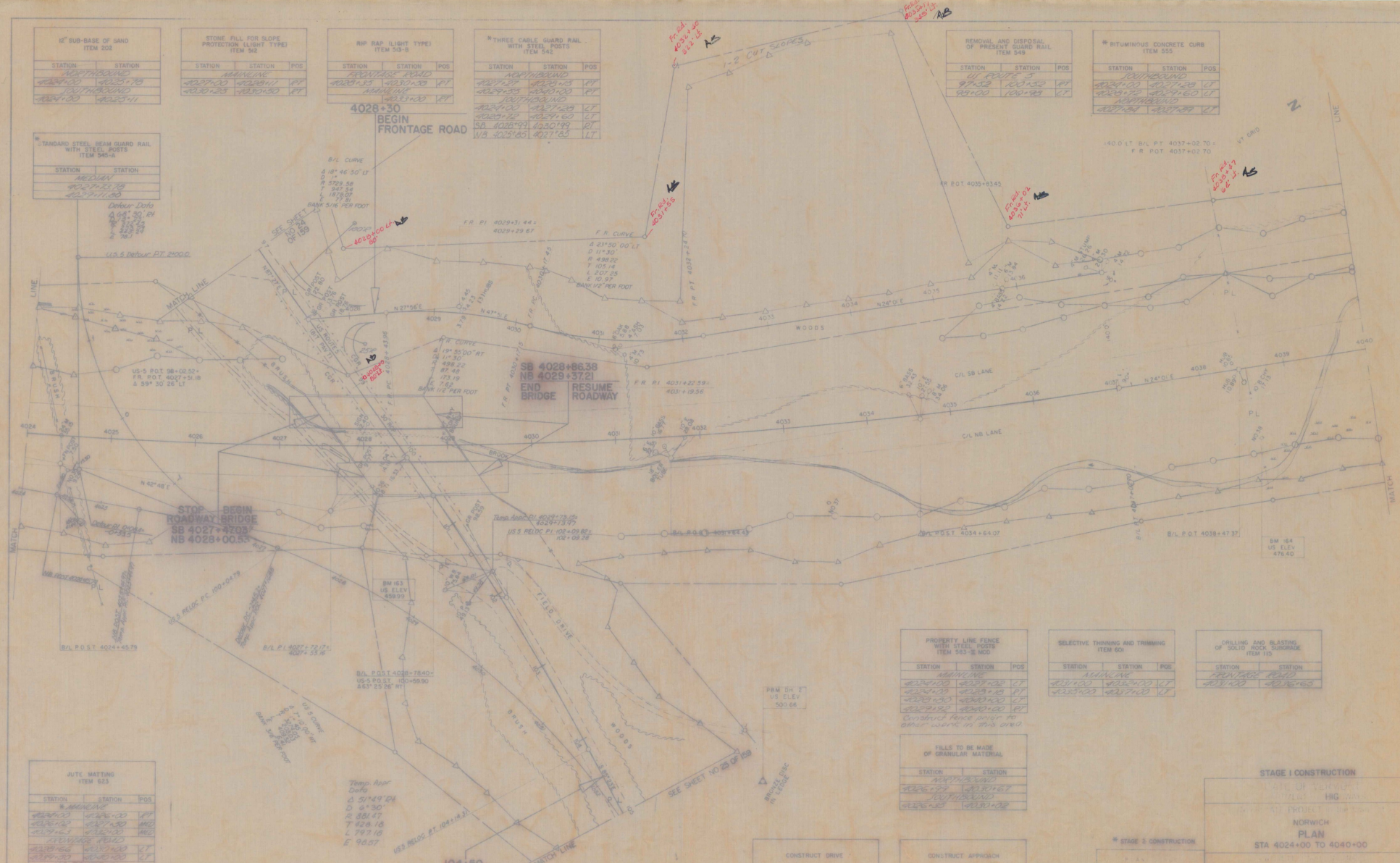
THREE-CABLE GUARD RAIL WITH STEEL POSTS ITEM 542		
STATION	STATION	POS
NORTHBOUND		
4024+00	4025+00	VT
SOUTHBOUND		
4024+00	4025+00	VT

REMOVAL AND DISPOSAL OF PRESENT GUARD RAIL ITEM 543		
STATION	STATION	POS
NORTHBOUND		
4024+00	4025+00	VT
SOUTHBOUND		
4024+00	4025+00	VT

BITUMINOUS CONCRETE CURB ITEM 545		
STATION	STATION	POS
NORTHBOUND		
4024+00	4025+00	VT
SOUTHBOUND		
4024+00	4025+00	VT

STANDARD STEEL BEAM GUARD RAIL WITH STEEL POSTS ITEM 545-A		
STATION	STATION	POS
NORTHBOUND		
4024+00	4025+00	VT
SOUTHBOUND		
4024+00	4025+00	VT

Decker Data
 4 58' 30" RI
 1 10' 00" RI
 2 10' 00" RI
 2 10' 00" RI



JUTC MATTING ITEM 623		
STATION	STATION	POS
NORTHBOUND		
4024+00	4025+00	VT
SOUTHBOUND		
4024+00	4025+00	VT

Temp Appr
 Data
 D 5'149.04
 R 331.47
 T 428.18
 L 797.18
 E 98.57

END US-5
 RELOCATION CONSTRUCTION

CONSTRUCT DRIVE	
STATION	POS
4024+00	VT
4025+00	VT

CONSTRUCT APPROACH	
STATION	POS
4024+00	VT
4025+00	VT

PROPERTY LINE FORCE WITH STEEL POSTS ITEM 543-B MOD		
STATION	STATION	POS
NORTHBOUND		
4024+00	4025+00	VT
SOUTHBOUND		
4024+00	4025+00	VT

SELECTIVE THINNING AND TRIMMING ITEM 601		
STATION	STATION	POS
NORTHBOUND		
4024+00	4025+00	VT
SOUTHBOUND		
4024+00	4025+00	VT

DRILLING AND BLASTING OF SOLID ROCK SURFACE ITEM 715		
STATION	STATION	POS
NORTHBOUND		
4024+00	4025+00	VT
SOUTHBOUND		
4024+00	4025+00	VT

FILLS TO BE MADE OF GRANULAR MATERIAL	
STATION	STATION
4024+00	4025+00
4024+00	4025+00

* STAGE 2 CONSTRUCTION

STAGE I CONSTRUCTION

STATE OF VERMONT
 PLANS
 PROJECT NO. 104-104
 NORWICH
 PLAN
 STA 4024+00 TO 4040+00

DATE: 10/1/83
 DRAWN: [Name]
 CHECKED: [Name]
 IN CHARGE: [Name]

July Meeting
 3903+00 - 3904+00 Med
 3906+70 - 3906+00 Med
 3992+00 - 3993+25 Med

* Three Cable Guard Rails w/ Light
 Steel Posts, 12" x 12"

Termini of Project Quantities
 SB 19'CY Excavation 21'CY Fill
 NB 19'CY Excavation 26'CY Fill

Property Line Fence
 Ramp D 6+00E - SB 3996+00LT

Chain Link Fence 6' High
 NB 3903+00 - 3996+00 RT

Construct Maintenance U-Turn
 NB 3995+85LT

Ramp C 5+00E - NB 3995+00 RT
 Ramp D 5+00 - 6+00 LT

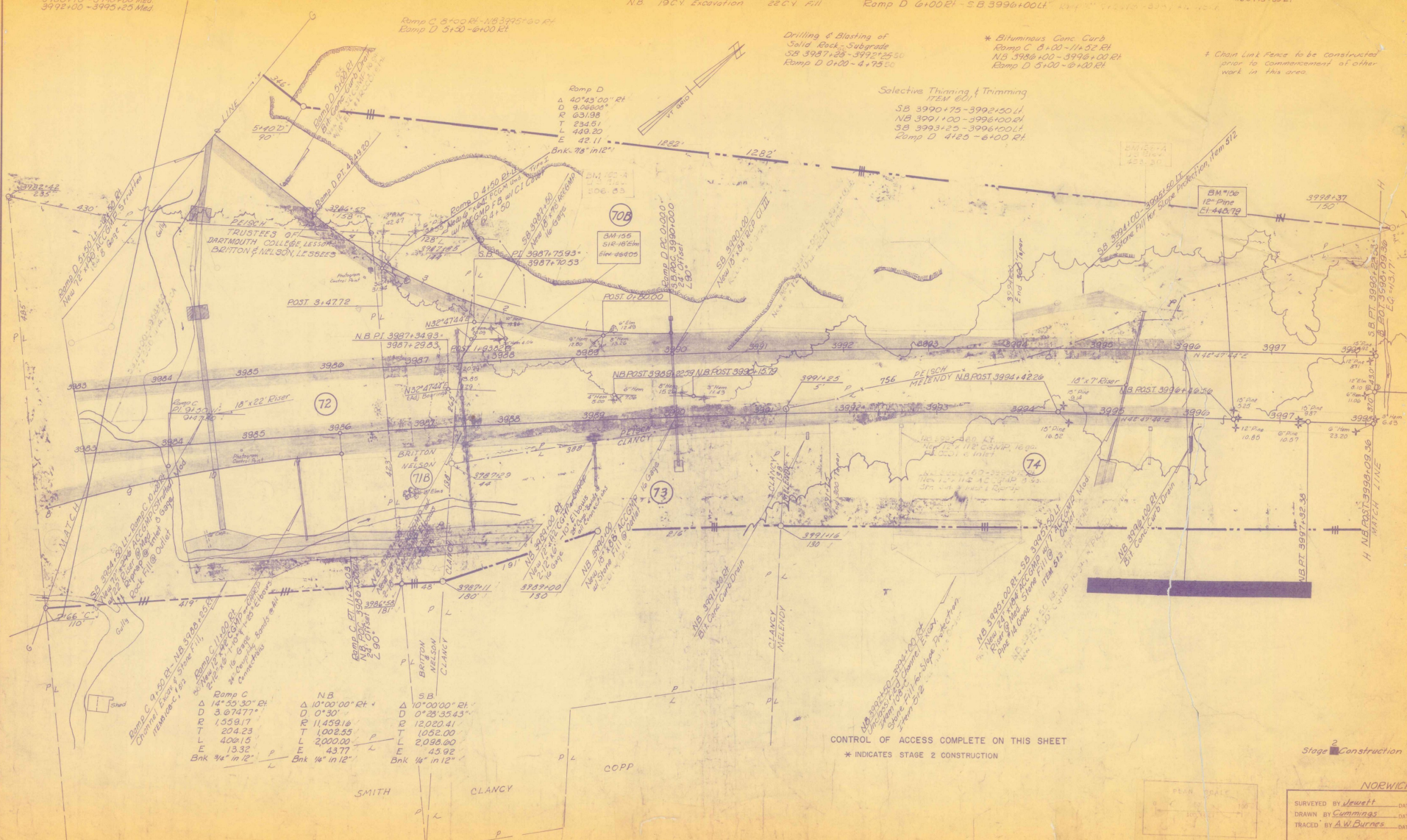
Drilling & Blasting of
 Solid Rock - Subgrade
 SB 3987+28 - 3992+25 ST
 Ramp D 6+00 - 6+75 ST

* Bituminous Conc Curb
 Ramp C 8+00 - 11+52 RT
 NB 3996+00 - 3996+00 RT
 Ramp D 5+00 - 6+00 RT

Chain Link Fence to be constructed
 prior to commencement of other
 work in this area.

Selective Thinning & Trimming
 72x11 60'

SB 3990+75 - 3992+50 LT
 NB 3991+00 - 3996+00 RT
 SB 3993+25 - 3996+00 LT
 Ramp D 4+25 - 6+00 RT



Ramp C		NB		SB	
Δ	14° 35' 30" RT	Δ	10° 00' 00" RT	Δ	10° 00' 00" RT
D	3 074.77'	D	0° 30' 12" RT	D	0° 28' 35.43"
R	1359.17'	R	11459.16'	R	12022.41'
T	204.23'	T	1002.55'	T	1052.00'
L	400.15'	L	2000.00'	L	2098.00'
E	13.32'	E	43.77'	E	43.92'
Bank	3/4" in 12"	Bank	1/2" in 12"	Bank	1/2" in 12"

CONTROL OF ACCESS COMPLETE ON THIS SHEET
 * INDICATES STAGE 2 CONSTRUCTION

Stage 2 Construction

NORWICH

SURVEYED BY J. W. J. DATE: Oct 83
 DRAWN BY Cummings DATE: Oct 83
 TRACED BY A. W. Burnes DATE: Aug 83

PROJ. NO. 91-2 (20)
 SHEET 2 OF 2

EARTHWORK

EARTHWORK

EARTHWORK SUMMARY

STATE OF VERMONT
DEPARTMENT OF
HIGHWAYS

Y.C.	% GRADE	STATION	GRADES		CORE V.C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK				EMBANKMENT				BASE			
			ELEVATION ON TANGENT	ELEVATION ON V. CURVES			AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.		
4028	+00	464.44		0		50												
	+50	465.95	465.93	-0.02														
4025		467.46	467.39	-0.07														
	+50	468.96	468.80	-0.16														
4026		470.47	470.39	-0.08														
	+50	471.98	471.55	-0.43														
4027		473.48	472.86	-0.62														
	+50	474.99	474.14	-0.85	50													
	+73.78	475.71	474.74	-0.97	23.78													
4028		476.50	475.39	-1.11														
	+00.63	476.51	475.30	-1.11														
	+25	477.25	476.00	-1.25														
	+50	478.00	476.60	-1.40														
4029		478.89	477.78	-1.11														
	+11.80	479.09	478.05	-1.04														
	+37.21	479.58	478.63	-0.91														
	+50	479.77	478.92	-0.85														
4030		480.66	480.04	-0.62	50													
	+50	481.54	481.11	-0.43														
4031		482.43	482.15	-0.28														
	+50	483.31	483.15	-0.16														
4032		484.20	484.13	-0.07														
	+50	485.08	485.06	-0.02														
4033		485.97	485.97	-0.00														
	+50	486.85																
4034		487.74																
	+50	488.62																
4035		489.51																
	+50	490.39																
4036		491.28																
	+50	492.16																
4037		493.05																
	+50	493.93																
4038		494.82																
	+50	495.70																
4039		496.59																
	+50	497.47																
4040		498.36																
	+50	499.24																
4041		500.13																
	+50	501.01																
4042		501.90																
	+50	502.78																
4043		503.67																
	+50	504.55																
4044		505.44																
	+50	506.32																
4045		507.21																
	+50	508.09																
4046		508.98				50												

CARRIED FORWARD
COLUMN FOOTINGS

Y.C.	% GRADE	STATION	GRADES		CORE V.C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK				EMBANKMENT				BASE			
			ELEVATION ON TANGENT	ELEVATION ON V. CURVES			AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.		
4046		508.98				50												
	+50	509.86																
4047		510.75																
	+50	511.63																
4048		512.52																
	+50	513.40																
4049		514.29																
	+50	515.17																
4050		516.06	516.06	0.00														
	+50	516.94	516.90	-0.04														
4051		517.83	517.69	-0.14		50												
	+31.99					180.1												
	+50	518.71	518.39	-0.32														
4052		519.60	519.03	-0.57		50												
	+50	520.48	519.59	-0.89														
4053		521.37	520.09	-1.28														
	+50	522.25	520.51	-1.74														
4054		523.14	520.86	-2.28														
	+50	524.02	521.14	-2.88														
4055		524.91	521.35	-3.56														
	+50	525.79	521.88	-4.31														
4056		526.68	521.56	-5.12														
	+50	527.56	521.55	-6.01														
4057		528.45	521.48	-6.97														
	+50	529.33	521.32	-8.01		50												
4058		528.08	521.11	-6.97		50												
	+50	526.83	520.82	-6.01		25												
	+75	526.21	520.65	-5.56														
4059		525.58	520.46	-5.12														
	+25	524.96	520.25	-4.71														
	+50	524.33	520.02	-4.31														
	+75	523.71	519.79	-3.92														
4060		523.08	519.52	-3.56														
	+25	522.46	519.25	-3.21														
	+50	521.83	518.95	-2.88														
	+75	521.21	518.64	-2.57														
4061		520.58	518.30	-2.28														
	+25	519.96	517.96	-2.00														
	+50	519.33	517.59	-1.74														
	+75	518.71	517.21	-1.50														
4062		518.09	516.80	-1.28														
	+25	517.46	516.38	-1.08														
	+50	516.83	515.94	-0.89														
	+75	516.21	515.49	-0.72														
4063		515.58	515.01	-0.57														
	+25	514.96	514.52	-0.44		25												

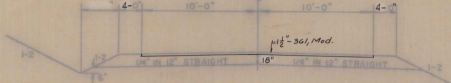
CARRIED FORWARD
COLUMN FOOTINGS

Y.C.	% GRADE	STATION	GRADES		CORE V.C.	DIST.	TOTAL EXCAVATION EARTH AND ROCK				EMBANKMENT				BASE			
			ELEVATION ON TANGENT	ELEVATION ON V. CURVES			AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.		
4064		514.96	514.52	-0.44		25												
	+50	514.33	514.01	-0.32														
	+75	513.71	513.50	-0.21														
4065		513.08	512.94	-0.14														
	+25	512.46	512.38	-0.08														
	+50	511.83	511.79	-0.04														
	+75	511.21	511.20	-0.01		25												
4065		510.58																
	+3.46	5066+11.04																
		5066+44.50																
		5070+53.46	496.83															

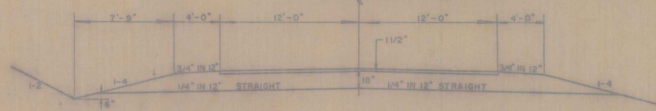
SHEET NO.	COL. NO.	SUMMARY BY COLUMNS				REMARKS
		EXCAVATION	EMBANKMENT	BASE		
		TOTAL CU. YDS.	ROCK CU. YDS.	CUBIC YARDS	CUBIC YARDS	EARTH AND ROCK EXCAVATION SOLID ROCK EXCAVATION EARTH EXCAVATION
						PLANIMETERED FILL LESS FACTORED SOLID ROCK LESS DISPLACEMENT OF ANY LARGE STRUCTURES NET PLANIMETERED FILL FACTOR PLANIMETERED FILL INCLUDING FACTOR
						MATERIALS AVAILABLE FOR FILL EARTH EXCAVATION CHANNEL EXCAVATION UNDERDRAIN EXCAVATION STRUCTURE EXCAVATION
						TOTAL MATERIAL AVAILABLE FOR FILL TOTAL FILL INCLUDING FACTOR TOTAL MATERIAL FOR FILL BORROW

PLAN
 U.S. 5 DETOUR TYPICAL
 18" SUB-BASE OF GRAVEL, ITEM 201, MOD.
 1 1/2" BIT. CON. PAVEMENT, ITEM 361, MOD. WEARING COURSE, TYPE III

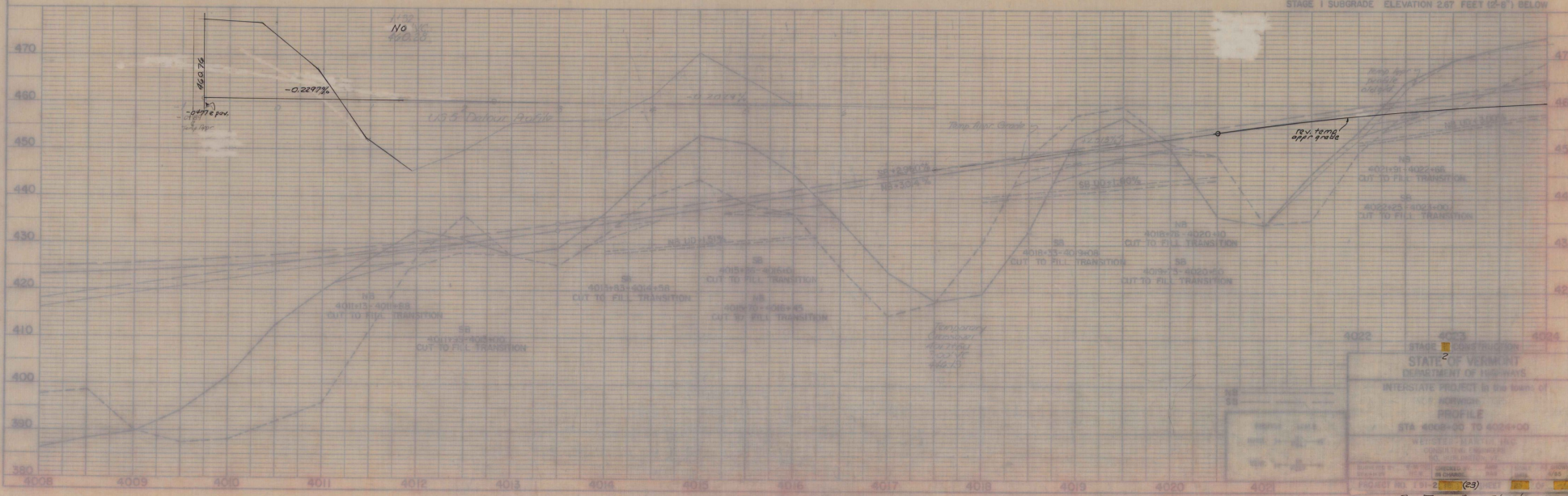
U.S. 5 DETOUR TYPICAL
 18" SUB-BASE OF GRAVEL, ITEM 201, MOD.
 1 1/2" BIT. CON. PAVEMENT, ITEM 361, MOD. WEARING COURSE, TYPE III



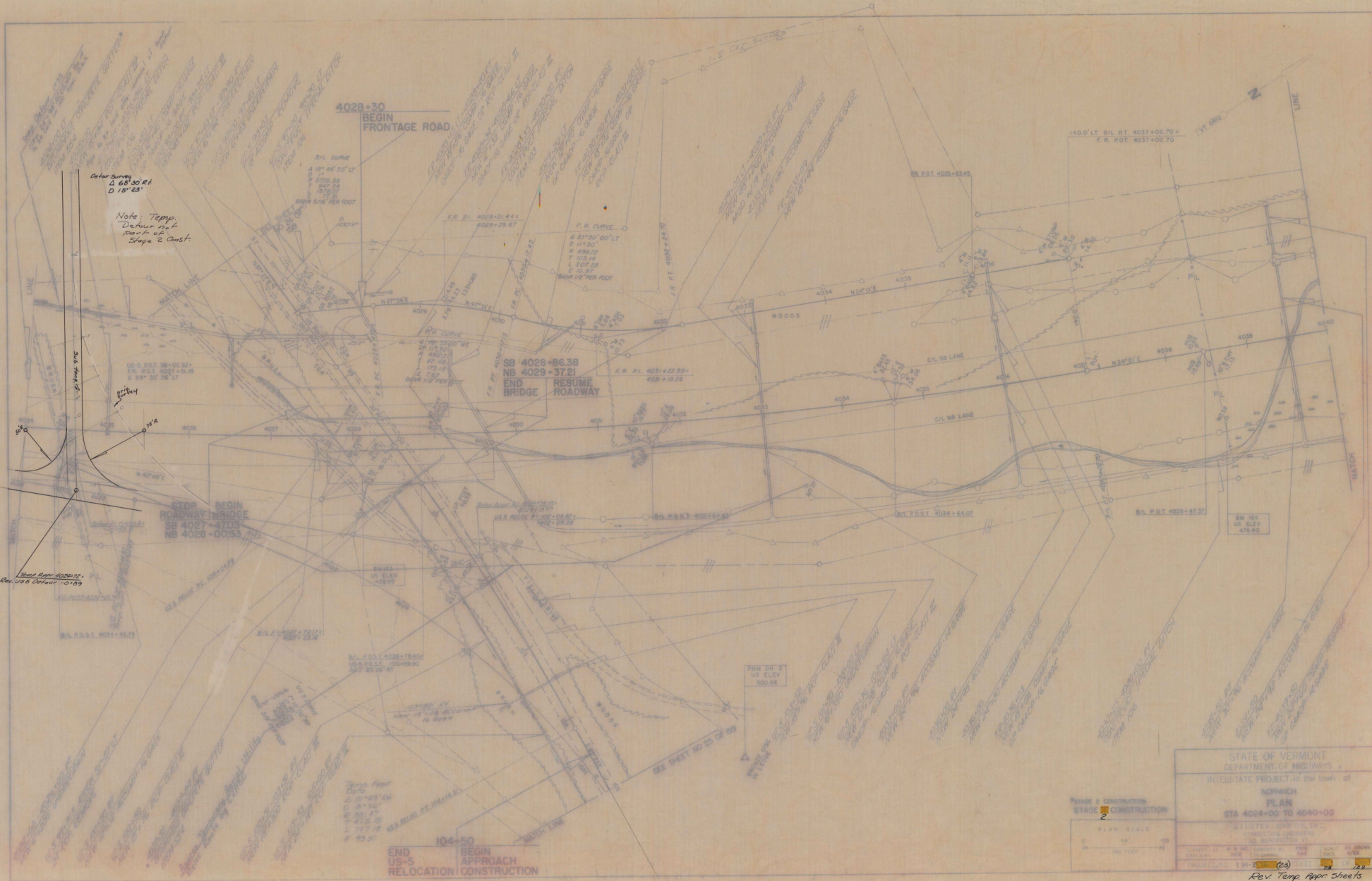
TEMPORARY APPROACH TYPICAL
 1 1/2" BITUMINOUS CONCRETE PAVEMENT, ITEM 361, MOD. WEARING COURSE, TYPE III
 18" SUB-BASE OF GRAVEL, ITEM 201, MOD.



STAGE 2 FINISHED GRADES SHOWN
 STAGE 1 SUBGRADE ELEVATION 2.87 FEET (28'-6") BELOW



4022
 STAGE 2
 STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS
 INTERSTATE PROJECT in the town of
 PROFILE
 STA 4008+00 TO 4020+00
 SHEET 129 OF 129
 PROJECT NO. 151-2 (23)
 Rev. Temp. Appr. Sheets
 Change Order # 72 129



Center Survey
 $\Delta 68^{\circ}30' R/L$
 $D 15^{\circ}23'$

Note: Temp.
 Deform. not
 shown on
 Synga & Const.

STOP BEGIN
 ROADWAY BRIDGE
 SB 4027-4203
 NB 4028-0033

104+50
 END US-5
 BEGIN RELOCATION CONSTRUCTION

STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS
 INTERSTATE PROJECT in the town of
NORWICH
PLAN
 STA 4024+00 TO 4040+00

STAGE 3 CONSTRUCTION
 STAGE 2 CONSTRUCTION

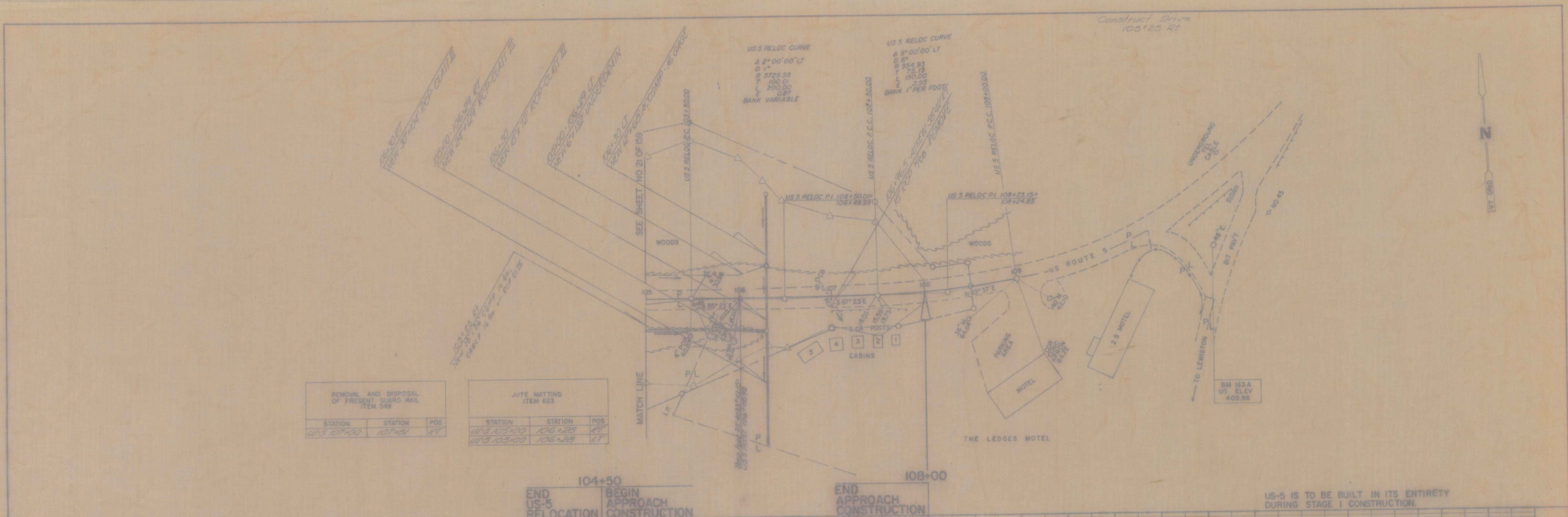
PLAN SCALE
 1" = 40'

DATE	BY	CHKD	APP'D
11/15/83

Rev. Temp. Appr. Sheets
 Change Order #

PLAN
 STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS
 INTERSTATE PROJECT

DATE
 DRAWN BY
 CHECKED BY
 APPROVED BY

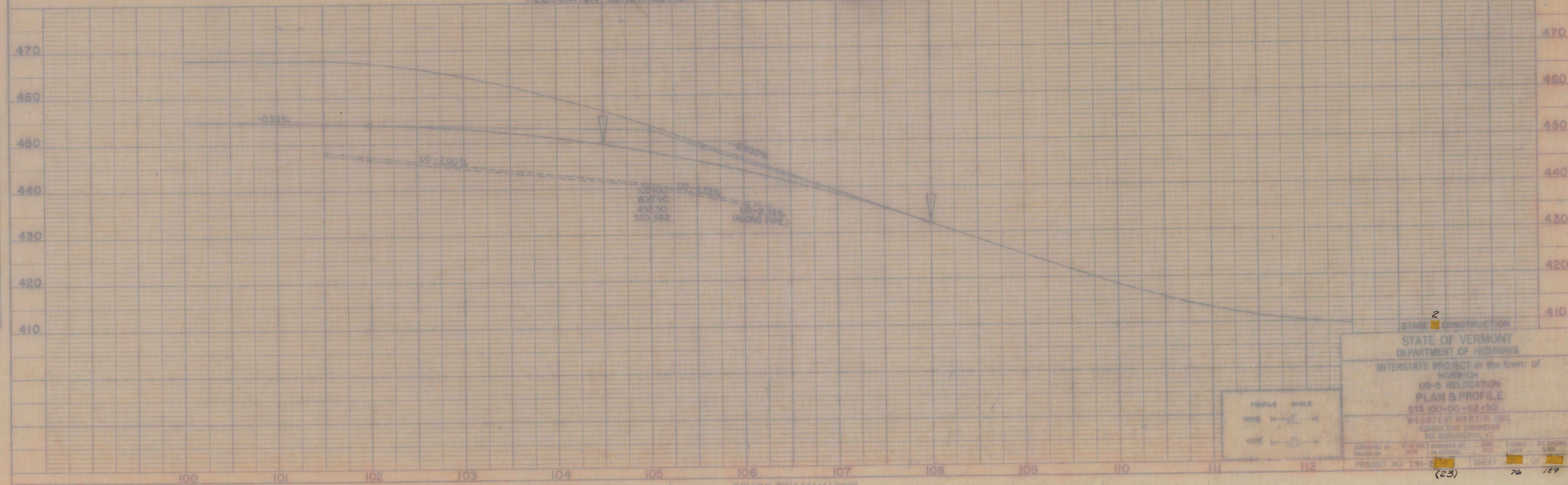


REMOVE AND DISPOSAL
 OF PRESENT GUARD RAIL
 ITEM 549

STATION	STATION	POS
103+00.00	107+00	LT

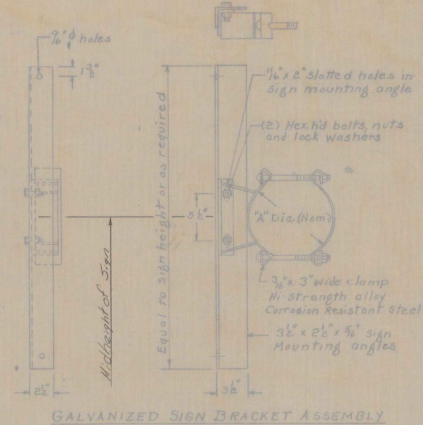
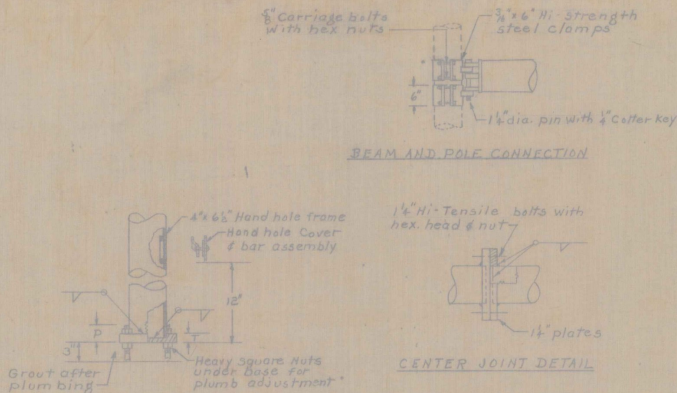
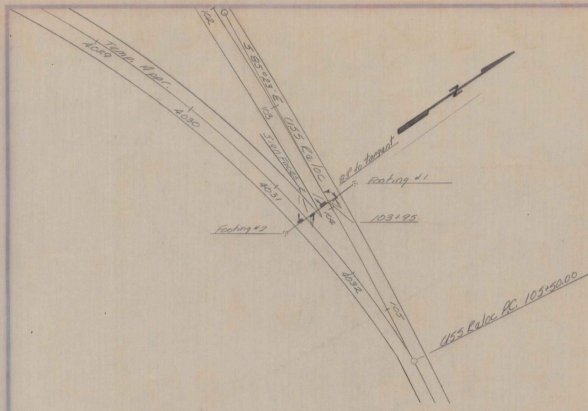
JUTE MITTING
 ITEM 623

STATION	STATION	POS
104+00.00	106+00	LT
108+00.00	108+00	LT

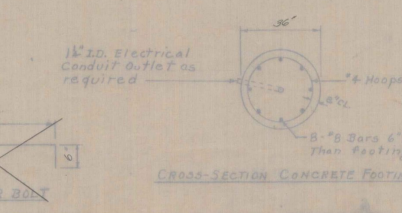
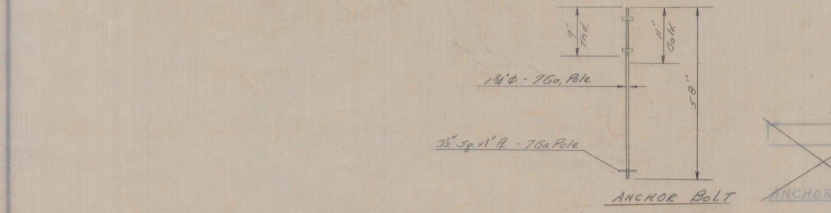
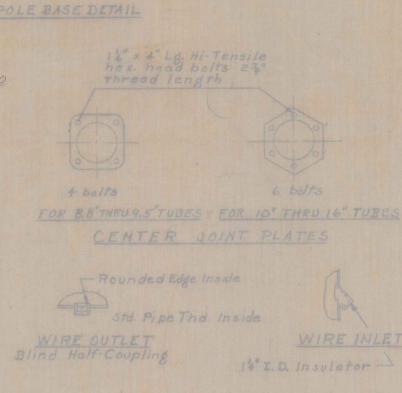
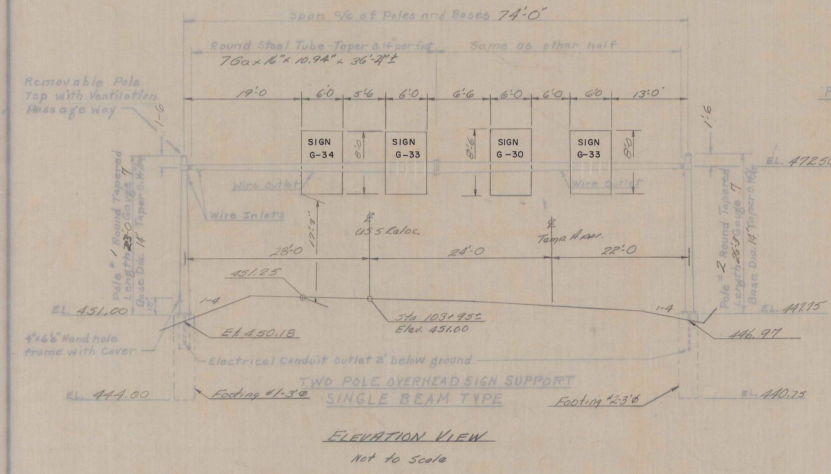


2
 STAGE 2 CONSTRUCTION
 STATE OF VERMONT
 DEPARTMENT OF HIGHWAYS
 INTERSTATE PROJECT in the town of
 ROCHFORD
 US-5 RELOCATION
 PLAN & PROFILE
 STA 100+00 - 112+00
 WEBSTER MARTIN, INC.
 CONSULTING ENGINEERS
 60 S. BURLINGTON, VT.

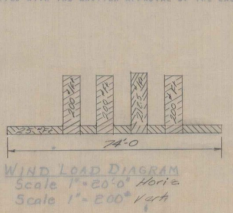
DESIGNED BY: [Signature] CHECKED BY: [Signature] DRAWN BY: [Signature]
 PROJECT NO. 191-2 SHEET 76 OF 129
 (23)



Clamp Range	Max. Sign Height	Max. Sign Width
4 1/2" - 5 1/2"	4 1/2"	4 1/2"
5 1/2" - 6 1/2"	5"	5"
6 1/2" - 7 1/2"	5 1/2"	5 1/2"
7 1/2" - 8 1/2"	6"	6"
8 1/2" - 9 1/2"	6 1/2"	6 1/2"
9 1/2" - 10 1/2"	7"	7"
10 1/2" - 11 1/2"	7 1/2"	7 1/2"
11 1/2" - 12 1/2"	8"	8"
12 1/2" - 13 1/2"	8 1/2"	8 1/2"
13 1/2" - 14 1/2"	9"	9"
14 1/2" - 15 1/2"	9 1/2"	9 1/2"
15 1/2" - 16 1/2"	10"	10"



- GENERAL NOTES**
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT, DEPARTMENT OF HIGHWAYS, STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, DATED APRIL 1964, WITH CURRENT MODIFICATIONS.
 - OVERHEAD SIGN SUPPORTS ARE TO BE DESIGNED TO SATISFY REQUIREMENTS OF THE FOLLOWING A.S.M.S. PUBLICATION ENTITLED "SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS", DATED NOVEMBER, 1960.
 - ANCHOR BOLTS:** FOUR HIGH STRENGTH STEEL ANCHOR BOLTS, HAVING A TYPICAL TENSILE YIELD STRENGTH OF 65,000 P.S.I., AND AN ULTIMATE OF 91,000 P.S.I., AND EACH FITTED WITH BOTH A SQUARE NOT AND A HEXAGON NOT, SHALL BE FURNISHED WITH EACH POLE. EACH ANCHOR BOLT SHALL HAVE AN "L" END AT THE BOTTOM AND BE THREADED AT THE TOP END. THREADED ENDS AND ALL NUTS SHALL BE GALVANIZED. THE ANCHOR BOLTS SHALL BE CAPABLE OF RESISTING AT YIELD STRENGTH STRESS THE FULL BENDING MOMENT OF THE SHAFT AT ITS YIELD STRENGTH STRESS.
 - FLANGE BOLTS:** ALL FLANGE BOLTS WITH HEX NUTS SHALL BE HIGH STRENGTH STEEL AND CONFORM TO ASTM SPECIFICATIONS A 193-65 GRADE B7, HAVING A MINIMUM TENSILE YIELD STRENGTH OF 105,000 P.S.I., AND A MINIMUM TENSILE ULTIMATE STRENGTH OF 122,000 P.S.I. THESE BOLTS AND ATTACHED NUTS SHALL BE HOT DIP GALVANIZED, PER ASTM A 153-55, WITH THE NUTS TAPPED .015" OVERSIZE TO INSURE PROPER FITTING. THE FLANGE BOLTS SHALL BE CAPABLE OF RESISTING AT 70% OF YIELD STRENGTH STRESS THE FULL BENDING MOMENT OF THE SHAFT AT ITS YIELD STRENGTH STRESS.
 - CROSS BEAM CHORDS AND UPRIGHT POLE MEMBERS:** THESE STEEL TUBES SHALL BE FORMED AND WELDED WITH ONE CONTINUOUS LONGITUDINAL WELD ONLY. AFTER FORMING AND WELDING, THEY SHALL BE COLD ROLLED TO INSURE UNIFORMITY OF SIZE, SMOOTHNESS OF WELD, AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 P.S.I. THERE SHALL BE NO TRANSVERSE WELDING EXCEPT AT THE FLANGE CONNECTIONS AND POLE BASE PLATING. WHERE THE TUBES SHALL TELESCOPE THE FLANGES AND PLATES AND BE CONTINUOUSLY WELDED BOTH INSIDE AND OUT TO WITHSTAND THE FULL TRANSFER OF TUBE BENDING STRESS TO THE SOLDS. WELDING SHALL BE PERFORMED BY THE ELECTRIC ARC PROCESS USING "E60" CLASS COATED ELECTRODES APPROVED BY THE AMERICAN WELDING SOCIETY. ALL WELDING SLAG SHALL BE CHIPPED AND BRUSHED CLEAR PERMITTING ACCURATE WELD INSPECTION. CROSS BEAM TUBES SHALL BE CAMBERED TO PREVENT SAG UNDER DEAD LOAD OF BEAMS AND SIGNS.
 - ALL STEEL EXCEPT CONCRETE REINFORCING BARS TO BE HOT DIP GALVANIZED. THE ASSEMBLIES SHALL BE DESIGNED AND MANUFACTURED TO PERMIT GALVANIZING ON ALL INTERIOR AND EXTERIOR SURFACES, FREE OF POCKETS AND OTHER STRUCTURAL OBSTRUCTIONS THAT WILL NOT PERMIT A MINIMUM AVERAGE ZINC COATING THICKNESS OF 2.172 OUNCES PER SQUARE FOOT OF SURFACE AND THERE SHALL BE 30 GALVANIZED IN ACCORDANCE WITH ASTM SPECIFICATION A 120-65.
 - DESIGN STRESSES:** CONCRETE f_c EQUALS 4,200 P.S.I., REINFORCING STEEL EQUALS 20,000 P.S.I., CONCRETE f_t EQUALS 3,000 P.S.I.
 - WIND LOAD ON EXPOSED TUBES AND SIGNS EQUALS 25# PER SQUARE FOOT.
 - MAXIMUM FOUNDATION PRESSURE EQUALS ONE AND ONE-HALF (1 1/2) TONS PER SQUARE FOOT UNLESS OTHERWISE NOTED.
 - SIGN SUPPORT TUBES MAY BE FABRICATED IN THREE (3) SECTIONS AT THE CONTRACTOR'S OPTION PROVIDED ALTERNATE DESIGN CONFORMS TO ORIGINAL REQUIREMENTS.
 - AN EQUIVALENT ALUMINUM ALLOY SPAN MAY BE SUBSTITUTED WITH SUBMITTAL OF DRAWINGS AND APPROVAL OF THE ENGINEER.
 - CHANGED IN THE DESIGN DETAILS SHOWN HERE OF THE USE OF OTHER MATERIALS OR DESIGNERS, MEETING REQUIREMENTS STATED ABOVE, MAY BE PERMITTED WITH THE WRITTEN APPROVAL OF THE ENGINEER.



No.	Pole Description	S.C.	F	S	T	P	Anchor Bolt Size
1	7H 14" x 10.18" x 28'-0"	20	14'	20 1/2"	2"	3 3/4"	1 1/2" x 58"
2	7H 14" x 10.32" x 26'-9"	20	14'	20 1/2"	2"	3 3/4"	1 1/2" x 58"

No.	Item	Unit	Total
703	Overhead Traffic Sign Support	Each	1

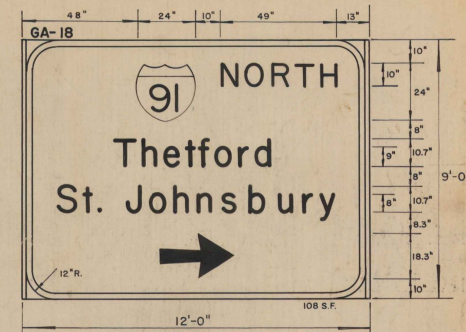
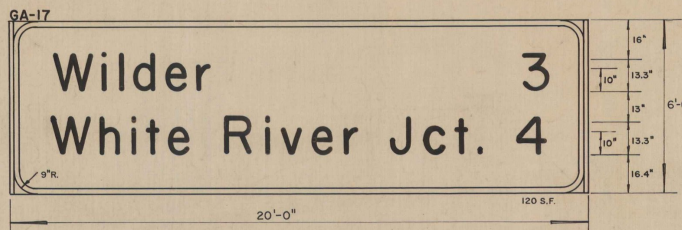
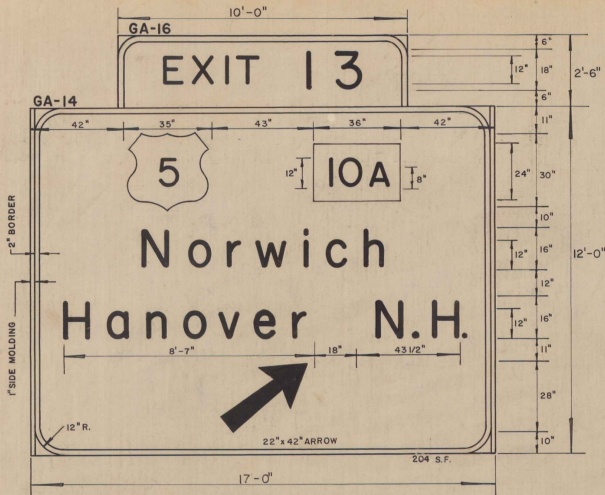
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

PROJECT - NORWICH
TOWN OF - NORWICH

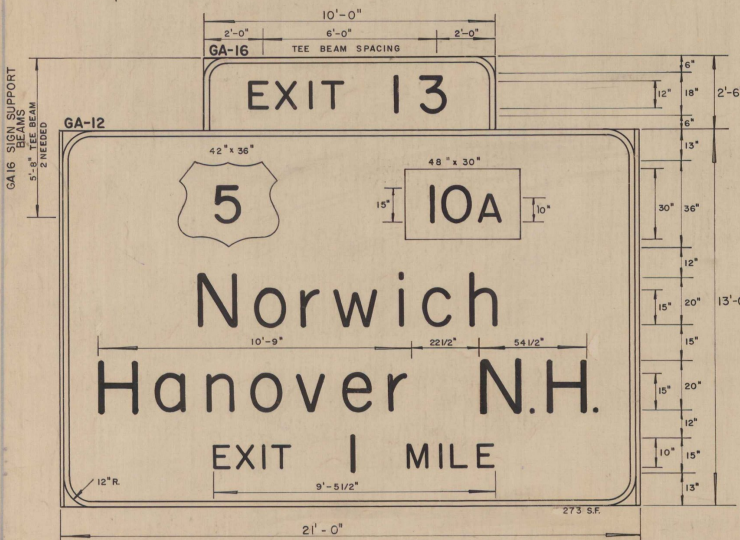
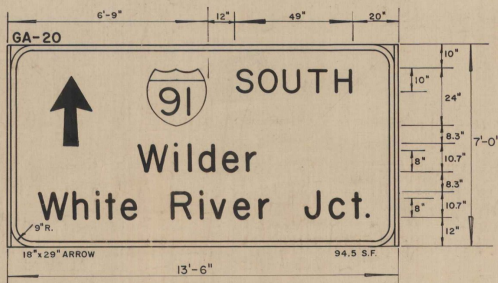
ROUTE No 103 Galv. STA 103+95
OVERHEAD TRAFFIC SIGN SUPPORT
AT STA. 103+95 U.S. 5 RELOCATION

SCALE AS NOTED
IN CHARGE W.A. SMITH
DRAWN BY R.H. Finkbeiner CHECKED BY J.H. Richardson

PROJECT No. 791-2(23)
SHEET 87 OF 129



GA-19 - SAME EXCEPT ARROW LEFT



Porcelain enameling panels on this project may have a 1/8" corner radius on their face. They shall be alloy 6061-T4 or a magnesium-silicon type enameling alloy similar to alloy 6061 and with mechanical properties after enameling of 16,000 p.s.i. yield and 30,000 p.s.i. tensile strength.

MATERIALS:
 Plus GA-15, AND GA-31
 The sign base material used for these signs, except route markers, shall be extruded aluminum panels with a porcelain enamel finish. The reflective text material, except for the route markers, shall be acrylic plastic reflectors in embossed letter frames.

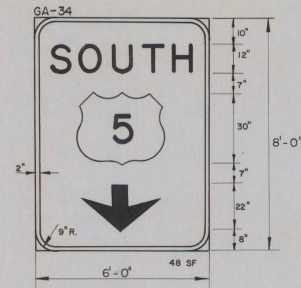
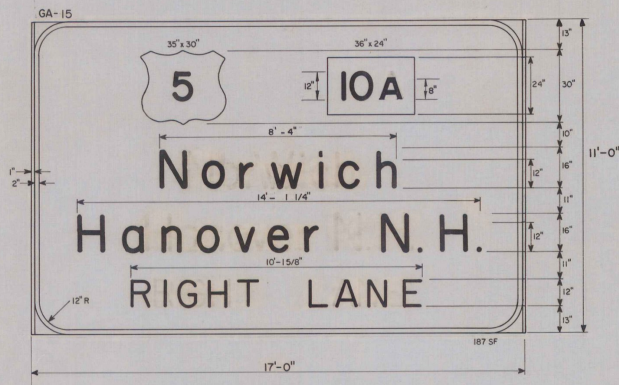
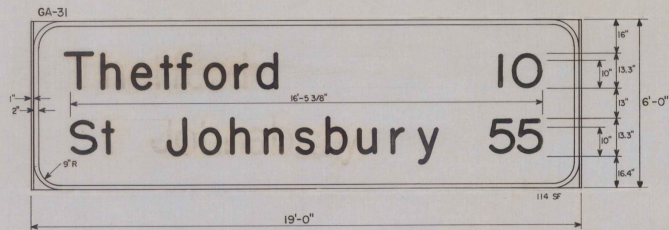
ROUTE MARKERS:
 The route markers shall conform with the designs and materials detailed on standard sheets E-11, E-12 and E-13.

COLORS:
 The signs, except for route markers, shall have reflectorized white texts on non-reflectorized green backgrounds. The green shall conform with the standard color adopted by the American Association of State Highway Officials and approved by the U.S. Department of Commerce, Bureau of Public Roads.

LETTERING:
 Letters and digits, except on route markers, shall conform with Series E of the standard alphabet for highway signs, approved by the National Joint Committee on Uniform Traffic Control Devices, with the stroke widths modified to one-fifth the height.

HARTFORD-NORWICH

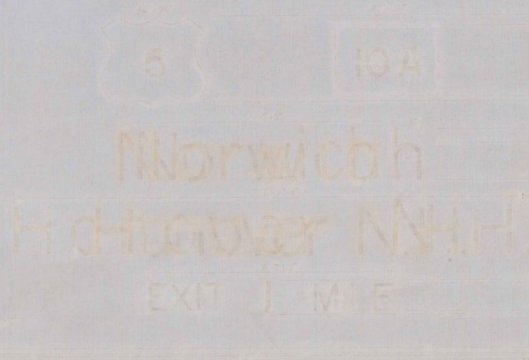
TRAFFIC SIGNS DESIGN AND CONSTRUCTION DETAILS		DESIGNED BY: PIRIE DATE: 12/65 DRAWN BY: PIRIE DATE: 12/65 TRACED BY: R.L.E. DATE: 1/66
STAGE 2 CONSTRUCTION		PROJ. I NO. 91-2(5) SHEET 00 OF 129 (23)



SIGNS G-30, G-33 and G-34 SHALL HAVE A REFLECTORIZED TEXT ON A REFLECTORIZED GREEN BACKGROUND. THE SILVER WHITE REFLECTIVE SHEETING FOR THE EMBOSSED LETTERS AND ARROWS SHALL HAVE A MINIMUM BRIGHTNESS OF 100 CANDLEPOWER PER FT. CANDLE PER SQ. FT. OF MATERIAL AT 0.2° DIVERGENCE ANGLE AND 15° ANGLE OF INCIDENCE.

THE BACKGROUND MATERIAL FOR THESE OVERHEAD SIGNS MAY BE 3/4" HIGH DENSITY OVERLAID PLYWOOD OR 0.125" FLAT SHEET ALUMINUM OR 14 GAUGE GALVANIZED FLAT SHEET STEEL OR EXTRUDED ALUMINUM PANELS. PLYWOOD OR METAL SHEETS MAY BE MOUNTED BY BOLTING THRU THEM AND THEIR SUPPORTING BEAMS OR BRACKETS

ROUTE MARKERS AS TEXT SHALL CONFORM WITH SIZES INDICATED ON THE PLANS AND MATERIALS DETAILED ON STANDARD SHEETS E-11, E-12 AND E-13.



SECTION 3

STAGE 2 CONSTRUCTION

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

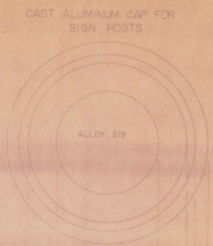
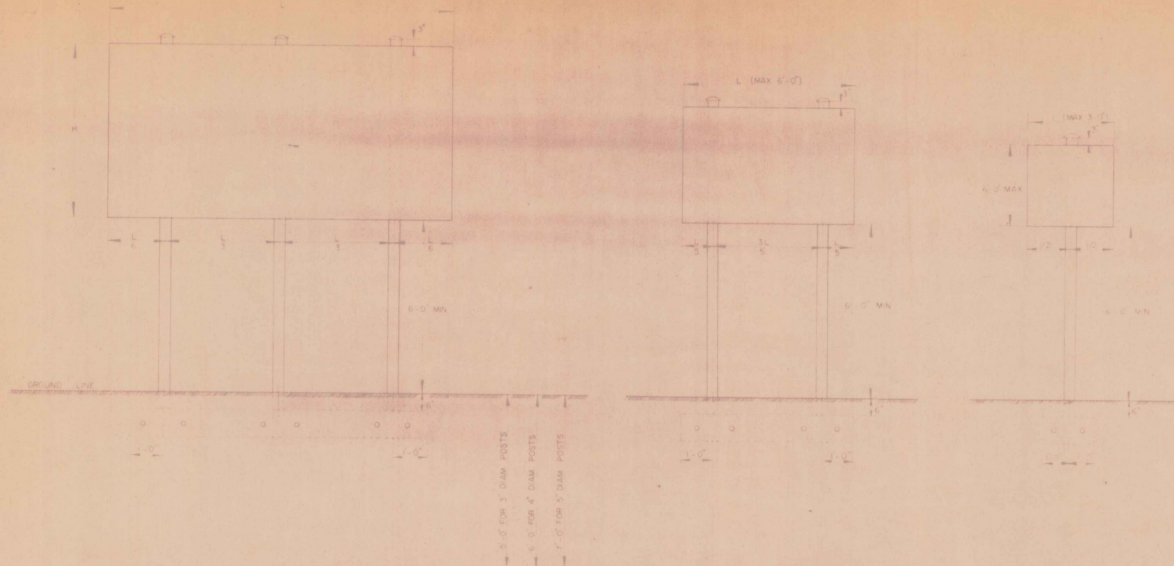
INTERSTATE PROJECT in the town of
NORWICH

TRAFFIC SIGNS
DESIGN AND CONSTRUCTION DETAILS

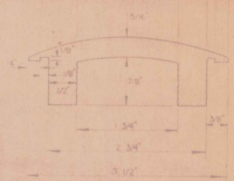
WEBSTER-MARTIN, INC.
CONSULTING ENGINEERS
50 BURLINGTON, VT

DESIGNED BY	W.M. JNC	CHECKED BY	AMM	SCALE	AS SHOWN
DRAWN BY	HCM	IN CHARGE	RBS	DATE	4/65

PROJECT NO 191-2(23) SHEET 39 OF 129



DIMENSIONS SHOWN ARE FOR
5" O.D. ± 3/4" I.D. COMMERCIAL
TOLERANCES CAPS DESIGNED
FOR DRIVE FIT
DIMENSIONS ARE PROPORTIONAL
FOR LARGER DIAMETER TUBING

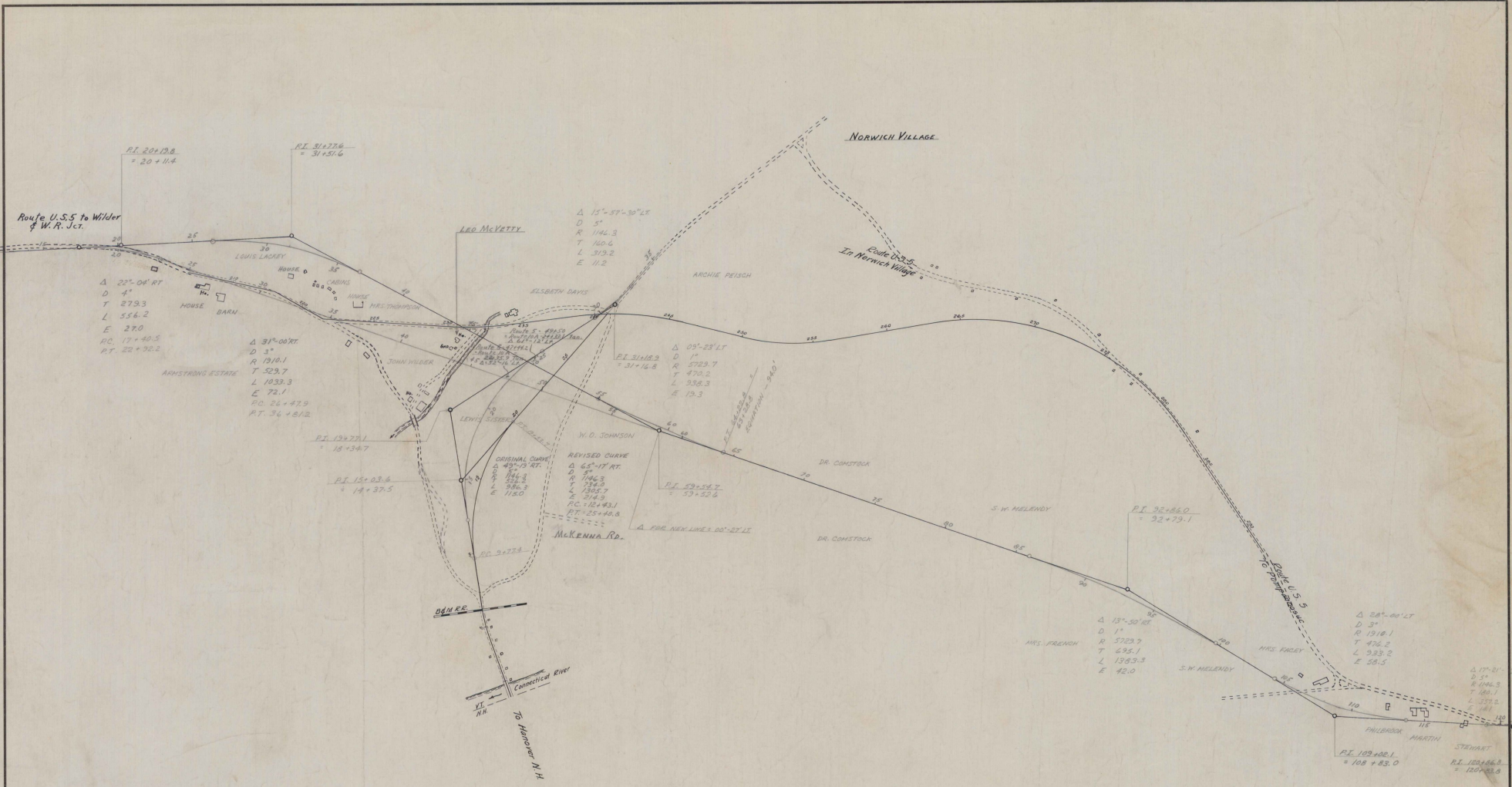


TYPE C FOOTING

- FOOTING** THE POSTS FOR THIS APPLICATION SHALL BE EXTENDED TUBULAR POSTS OF ALUMINUM ALLOY SUBJECT TO THE FOLLOWING:
- MATERIAL** THE ALUMINUM TUBING USED TO FABRICATE POSTS FOR THIS APPLICATION SHALL BE ALUMINUM OR STAINLESS STEEL OF A STANDARD COMMERCIAL GRADE APPROVED BY THE DEPARTMENT. THE FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO BE APPROVED BY THE DEPARTMENT.
- ANCHORS** USE TWO (2) PIECES OF 4" X 4" ROUND BLOK WELD DESIGNER, STRAIGHT AND HOLD DOWN IN EACH END OF THE POST FROM THE DRIVING TORQUE. FREE FROM LOOSE PARTS OR OTHER DEFECTS AND THE BLOK SHALL BE PROPERLY TIGHTENED TO THE TIGHTENING TORQUE SPECIFIED IN THE SPECIFICATION FOR THE BLOK. USE THE FOLLOWING SPECIFICATION FOR THE BLOK: 4" X 4" X 1/2" BLOK SHALL BE USED WITH A MINIMUM OF ONE (1) FOOT SPACING BETWEEN BLOKS IN THE POST.
- INSTALLATION** THE TUBING OF THE POST SHALL BE DRIVEN VERTICALLY PARALLEL TO THE GROUND SURFACE. THE BLOK SHALL BE DRIVEN INTO THE GROUND WITH AN ANVIL AND WEDGES AND SHALL BE SECURED BY THE POST. THE BLOK SHALL BE DRIVEN INTO THE GROUND WITH ANVIL SPECIFICATION A. 1.1. AFTER INSTALLATION, THE BLOK SHALL BE DRIVEN TO THE POINT OF RESISTANCE.
- PROTECTION** ALL POSTS SHALL BE PROTECTED AGAINST CORROSION BY THE ENVELOPE OF THE FIELD COAT. THE FIELD COAT SHALL BE APPLIED TO THE POSTS AND SHALL BE TIGHTLY FITTED TO THE POSTS. WHEN ALUMINUM CAPS ARE USED IN CONTACT WITH EARTH, THEY SHALL BE COVERED WITH A COAT OF HEAVY OIL OR ANOTHER PROTECTIVE COAT WHICH SHALL BE OILY BEFORE INSTALLATION. CORROSION IN CONTACT SHALL BE PREVENTED. ALUMINUM ALLOYS SHALL NOT BE PLACED IN CONTACT WITH STEEL WHICH HAS BEEN GALVANIZED.

TRAFFIC SIGNS
YIELDING TYPE TUBULAR ALUMINUM SIGN SUPPORTS

DESIGNED BY W.H.G. DATE 11/1/58
DRAWN BY W.H.G. DATE 11/1/58
TRACED BY J.S.A. DATE 11/1/58
Hartford - Norwich
STAGE II
PROJ. I NO 91-2(23)
SHEET 29-A OF 129



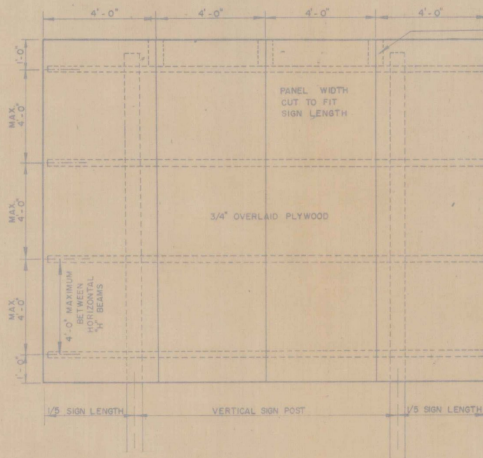
Scale: 1" = 300'
 NORWICH 114 (15)

Surveyed by		
Designed by		
Drawn by	FLOR DOWRY	1-3-58
Traced by		
Checked by		
Series	No.	Filed
	Sheet	of Sheets

Drawn 5
 11 6

MAXIMUM SPACINGS FOR HORIZONTAL $\frac{1}{2}$ " BEAMS	
HEIGHT OF SIGN	MIN. NO. HORIZONTALS
3'-0"	2
6'-0" - 9'-0"	3
10'-0" - 12'-0"	4
13'-0" - 16'-0"	5
17'-0" - 19'-0"	6

FOR SIGNS OVER 10'-0" IN HEIGHT, THE FULL HEIGHT MAY BE OBTAINED WITH PANELS HAVING A SCARF JOINT (FACTORY JOINED WITH NO RACKING NECESSARY) OR BY COMBINING STANDARD PANELS WITH OTHER SIZES SUCH AS 4'x4, 4'x6 TO OBTAIN THE REQUIRED HEIGHT. WHEN USING ANY OF THESE COMBINATIONS, HOWEVER, LOCATE HORIZONTAL SCARF JOINT AT "H" BEAM FRAMING MEMBER.



FORMULA FOR DETERMINING SIZE OF ALUMINUM OR STEEL I BEAMS, ANGLE OR TEE GIRTS.

HORIZONTAL SIGN SUPPORTS WITH 2 POSTS, VERTICAL SPACING OF HORIZONTAL SIGN SUPPORT, STRINGERS USED WITH ALL FLAT SHEET SIGNS OF ALUMINUM, STEEL OR PLYWOOD, LONGER THAN SIX FEET, IS AS FOLLOWS:

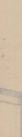
$$V = \frac{56,667 \sqrt{W}}{L^2}$$

V = VERTICAL SPACING IN FT. (NOT TO EXCEED 4 FT.)
 S = SECTION MODULUS OF HORIZONTAL STRINGER
 W = WINDLOAD PER SQUARE FOOT OF SIGN
 L = SIGN LENGTH IN FEET
 20,000 p.s.i. = ALLOWABLE BENDING STRESS FOR HORIZONTAL STRINGER

F. Pine

BEFORE ERECTING PLYWOOD SIGNS LARGER THAN 72" WIDE, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL BY THE ENGINEER A DRAWING OF HIS PROPOSED METHOD OF ATTACHING HORIZONTAL BEAMS TO VERTICAL POSTS.

6" WIDE X 3/4" THICK OVERLAID PLYWOOD BACKING PLATE, OR 3/4" X 3/4" X 1/8" THICK GALV. ANGLE EXTENDING ACROSS THE TOP AND BOTTOM OF THE SIGN
 USE GALV. WOOD SCREWS FROM BACK

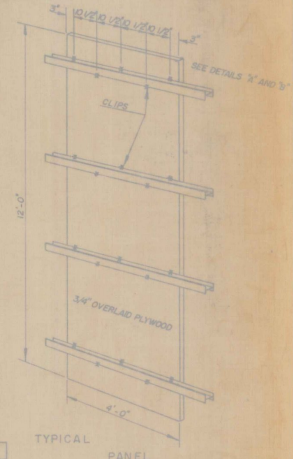
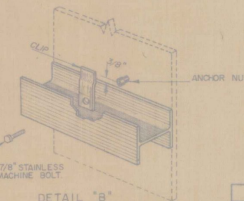
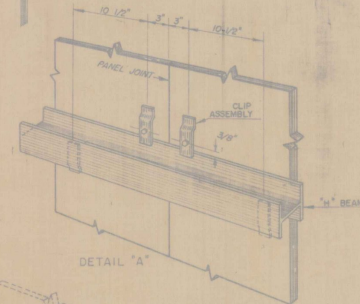


NOTES:

PLYWOOD SIGNS OVER 6' WIDE SHALL BE COMPLETELY REINFORCED BY USE OF STEEL OR ALUMINUM I BEAMS, ANGLE OR TEE GIRTS WITH STAINLESS STEEL OR ALUMINUM CLIPS, DESIGNED TO WITHSTAND A WINDLOAD OF 30 LBS PER SQ. FT.

STAINLESS STEEL OR ALUMINUM CLIPS STARTING 3" FROM SIGN EDGE AND SPACED A MINIMUM OF 5 CLIPS PER 4'-0". CLIPS AND BEAMS TO BE FASTENED BY STAINLESS STEEL OR ALUMINUM ANCHOR NUTS AND STAINLESS STEEL MACHINE SCREWS, BOLTS, NUTS, PLAT AND LOCK WASHERS, LARGE ENOUGH TO CARRY A SIGN LOAD OF 30 LBS PER SQ. FT.

FOR GALVANIZATION, REFER TO SPECIFICATIONS ITEM 545 SECTION 545.02 F



OVERLAID PLYWOOD THICKNESS	
MAXIMUM SIGN WIDTH	MINIMUM PLYWOOD THICKNESS
24"	1/2"
72"	5/8"
OVER 72"	3/4"

HARTFORD-NORWICH

STAGE 2 CONSTRUCTION

DRAWN BY: *AJA* DATE: _____
 CHECKED BY: *AJA* DATE: _____

OVERLAID PLYWOOD
 SIGN ASSEMBLY AND
 CONSTRUCTION DETAILS

PROJ. I NO. 91-2 (5)
 SHEET 90 OF 129 (23)

TRAFFIC SIGNS, ITEM 701

IDENTIFICATION	NUMBER OF SIGNS	SIZE		TEXT	SIGN POSTS			TOTAL SIGN AREA
		WIDTH	HEIGHT		SIZE AND TYPE	NO PER SIGN	FOOTING	
GA-31	1	19'-0"	6'-0"	THETFORD ST JOHNSBURY 10 55	10 WF 21 BREAKAWAY	2	A	114 φ
GA-12	1	21'-0"	13'-0"	NORWICH HANOVER N.H. EXIT 1 MILE	12 WF 27 BREAKAWAY 2 2 1/2" x 1 1/2" ALUMINUM TUBES	3 X	A	273 φ
GA-32	1	9'-0"	4'-0"	NEXT EXIT 4 MILES	MOUNT BELOW GA-12			36 φ
GA-15	1	17'-0"	11'-0"	NORWICH HANOVER N.H. RIGHT LANE	12 WF 27 BREAKAWAY	2	A	187 φ
MILEAGE SIGN	2	8"	18"		1.3 LBS DELINEATOR POST	1		2 φ
G-30	1	6'-0"	8'-6"	SOUTH SIGN BRIDGE STA 103+95	MOUNT ON US 5	5		51 φ
G-33	2	6'-0"	8'-0"	NORTH	"			96 φ
G-34	1	6'-0"	8'-0"	SOUTH				48 φ
G-16	1	10'-0"	2'-6"	EXIT 13	2 1/4" x 2 1/4" x 1/4" ALUMINUM OR GALVANIZED TEE BEAM	2	MOUNT ABOVE GA-15	25 φ
G-50	2	24"	24"		4" FLANGED CHANNEL	1	B	8 φ
G-53	2	21"	9"	SOUTH				2.6 φ
G-57	1	21"	15"					2.2 φ

COLUMN TOTAL = 844.8 φ

TRAFFIC SIGNS, ITEM 701

IDENTIFICATION	NUMBER OF SIGNS	SIZE		TEXT	SIGN POSTS			TOTAL SIGN AREA
		WIDTH	HEIGHT		SIZE AND TYPE	NO PER SIGN	FOOTING	
R-1	1	48"	60"	SPEED LIMIT 65	4" O.D. x 1/4" ALUMINUM TUBES	2	C	20 φ
R-2	1	48"	48"	MINIMUM 40	MOUNT BELOW R-1			16 φ
R-	0	48"	60"	SLOWER TRAFFIC KEEP RIGHT	4177	2	B	φ
R-	0	48"	36"	EMERGENCY STOPPING ONLY	4" x 3 1/2" x 5 1/16" L	2	B	φ
R-17	3	48"	60"	DO NOT PASS	4" x 3 1/2" x 5 1/16" ANGLE	2	B	60 φ
R-18	1	48"	60"	TWO WAY TRAFFIC AHEAD				20 φ
R-19	1	48"	48"	KEEP RIGHT				16 φ
R-20	1	60"	48"	WRONG WAY (WHITE ON RED)	5" O.D. x 3/8" ALUMINUM TUBES	2	X	20 φ
R-21	1	48"	48"	DO NOT ENTER	MOUNT ABOVE R-20			16 φ
R-22	1	48"	60"	KEEP RIGHT	4" FLANGED CHANNEL	2	B	20 φ
R-24	1	48"	48"	STOP	4" FLANGED CHANNEL	2	B	16 φ
GA-23	1	12'-0"	6'-0"	FOOD-PHONE GAS-LODGING NEXT RIGHT	6 WF 155 BREAKAWAY	2	A	72 φ
G-37	4	24"	24"		4" FLANGED CHANNEL	1	B	16 φ
G-42	2	21"	9"	SOUTH				2.6 φ
G-43	2	21"	15"	JCT				4.4 φ
G-44	1	21"	15"					2.2 φ

INTERSTATE COLORS

COLUMN TOTAL = 301.2 φ
+ COLUMN 1 = 844.8 φ
SHEET TOTAL = 1146.0 φ

DELINEATORS, ITEM 702

PART	NUMBER OF PLATES	SIZE		TEXT	PART	NUMBER OF PLATES	SIZE		TEXT
		WIDTH	HEIGHT				WIDTH	HEIGHT	
A	29	3.5"	6"	75	B	2	3.5"	6"	75
A	20	3.5"	6"	76	B	2	3.5"	6"	80
TOTAL	49				B	2	3.5"	6"	85
					B	2	3.5"	6"	90
					B	2	3.5"	6"	95
					TOTAL	49			
B	2	3.5"	6"	05					
B	2	3.5"	6"	10					
B	2	3.5"	6"	15					
B	2	3.5"	6"	20					
B	3	3.5"	6"	25					
B	4	3.5"	6"	30					
B	4	3.5"	6"	35					
B	4	3.5"	6"	40					
B	4	3.5"	6"	45					
B	4	3.5"	6"	50					
B	2	3.5"	6"	55					
B	2	3.5"	6"	60					
B	2	3.5"	6"	65					
B	2	3.5"	6"	70					

SUMMARY OF DELINEATORS, ITEM 702
TYPE I DELINEATORS, WITH PLATES 49
TYPE II DELINEATORS, DOUBLE AMBER 0
TYPE III DELINEATORS, TRIPLE AMBER 0
TYPE I DELINEATORS (PLAIN) 25

IDENTIFICATION OF TRAFFIC SIGNS

Traffic signs are identified on these plans by a number prefixed by a letter which indicates the following general classifications:

- GA - Large size guide signs
- G - Other guide signs
- R - Regulatory signs
- W - Warning signs

Traffic sign assemblies which consist of groups of signs mounted together, are identified by a letter - such as ASSEMBLY "A" - and the individual signs comprising the assembly are identified by their individual sign numbers.

ALL STEEL SIGN POSTS SHALL BE GALVANIZED.
ALL ALUMINUM TUBES SHALL BE 6061-T6 ALUMINUM ALLOY

STA 3996+00 TO STA 4063+75

NORWICH

TRAFFIC SIGN AND DELINEATOR SUMMARY SHEET

DESIGNED BY: LKL DATE: 4/65
DRAWN BY: LKL DATE: 5/65
TRACED BY: LKL DATE: 5/65
STAGE 2
PROJ. I NO. 91-2(23)
SHEET 71 OF 129

TRAFFIC SIGNS, ITEM 701

IDENTIFICATION	NUMBER OF SIGNS	SIZE		TEXT	SIGN AND POSTS			TOTAL SIGN AREA
		WIDTH	HEIGHT		SIZE AND TYPE	NO. PER SIGN	FOOTING	
GA-12	1	21'-0"	13'-0"	(5) 10A Norwich Hanover N.H. EXIT 1 MILE	12 WF 27 BREAKAWAY	3	A	273.9
GA-14		16'-6"	12'-0"	(5) 10A Norwich Hanover N.H.	12 WF 31	2	A	4
GA-15	1	17'-0"	11'-0"	(5) 10A Norwich Hanover N.H. RIGHT LANE	12 WF 27 BREAKAWAY	2	A	187.9
GA-18	1	12'-0"	9'-0"	(9) NORTH Thetford St. Johnsbury	5" ALUM. TUBES w/ 3/16" WALL 6061 T6 ALLOY	2	A	108.9
GA-19	1	12'-0"	9'-0"	(9) NORTH Thetford St. Johnsbury	5" ALUM. TUBES w/ 3/16" WALL MOUNTED ON BACK OF BASE SIGN POSTS 6061 T6 ALLOY	3	C	108.9
GA-20	1	13'-6"	7'-0"	(9) SOUTH Wilder White River Jct.	6 WF 15.5 BREAKAWAY	2	A	94.5.9
GA-21	1	13'-0"	6'-0"	Norwich Hanover N.H. Dartmouth College	6 BL 12 BREAKAWAY	2	A	78.9
GA-22	1	13'-0"	6'-0"	Hanover N.H. Dartmouth College Norwich	6 BL 12 BREAKAWAY	2	A	78.9
G-47	1	4'-0"	6'-0"	SOUTH (9) RIGHT LANE	4" O.D. x 3/16" ALUMINUM TUBES ALLOY 6061-T6	2	C	24.9
G-48	1	4'-0"	6'-0"	SOUTH (9) LEFT LANE	4" O.D. x 3/16" ALUMINUM TUBES	2	C	24.9
G-49		4'-0"	6'-0"	NORTH (9) LEFT LANE	4" O.D. x 3/16" ALUMINUM TUBES	2	C	9

COLUMN TOTAL = 974.5.9

BLACK ON WHITE

TRAFFIC SIGNS, ITEM 701

IDENTIFICATION	NUMBER OF SIGNS	SIZE		TEXT	SIGN AND POSTS			TOTAL SIGN AREA
		WIDTH	HEIGHT		SIZE AND TYPE	NO. PER SIGN	FOOTING	
GA-13	1	9'-0"	4'-0"	NEXT EXIT 10 MILES	MOUNT BELOW GA-12	2-2 1/2 x 2 1/4 ALUM T BEAMS 7'-3"	A	36.9
GA-17	1	20'-0"	6'-0"	Wilder White River Jct. 3 4	8 WF 17 BREAKAWAY	2	A	120.9
GA-16	2	10'-0"	2'-6"	EXIT 12	2 1/2" x 2 1/2" x 1/4" ALUMINUM OR GALVANIZED TEE BEAM	2	MOUNT ABOVE GA-12, 8 GA-15	50.9
G-24	2	6'-0"	5'-0"	EXIT 12	4" x 3.3" ALUMINUM I BEAM	2	B	60.9
G-25	1	8'-0"	4'-0"	ENTERING TOWN OF Norwich	5" O.D. x 3/16" ALUMINUM TUBES	2	C	32.9
G-26	1	8'-0"	4'-0"	ENTERING TOWN OF Hartford	5" O.D. x 3/16" ALUMINUM TUBES	2	C	32.9
GA-23	1	12'-0"	6'-0"	FOOD-PHONE GAS-LODGING NEXT RIGHT	6 WF 15.5 BREAKAWAY	2	A	72.9
G-39	1	30"	15"	SOUTH				3.1.9
G-38	1	30"	15"	NORTH				3.1.9
G-37	2	36"	36"	(91)	4" x 3 1/2" x 5 1/8" ANGLE	1	B	18.9
G-40	2	24"	24"					8.9
G-41	1	21"	9"	NORTH				1.3.9
G-42	1	21"	9"	SOUTH				1.3.9
G-44	0	21"	15"	↑				
G-45	1	21"	15"	←			B	2.2.9
MILE 74	2	8"	18"	7 4	DELINEATOR POST	1	B	2.9
MILE 75	2	8"	18"	7 5	DELINEATOR POST	1	B	2.9
G-50	3	24"	24"	(5)				12.9
G-51	3	30"	24"	10A				15.9
G-52	1	21"	9"	NORTH			B	1.3.9
G-53	1	21"	9"	SOUTH			B	1.3.9
G-54	2	21"	9"	EAST			B	2.2.9
G-56	1	21"	15"	↑				2.6.9
G-57	5	21"	15"	←				11.9

COLUMN TOTAL = 488.4.9
+ COLUMN 1 = 974.5.9
SHEET TOTAL = 1462.9.9

INTERSTATE COLORS
WHITE
BLUE

BLACK ON WHITE

DELINEATORS, ITEM 702

PART	NUMBER OF PLATES	SIZE		TEXT	PART	NUMBER OF PLATES	SIZE		TEXT
		WIDTH	HEIGHT				WIDTH	HEIGHT	
A	26	3 1/2"	4 1/2"	73	B	4	3 1/2"	6"	70
A	32	3 1/2"	4 1/2"	74	B	4			75
A	5	3 1/2"	4 1/2"	75	B	3			80
					B	3			85
					B	3			90
B	3	3 1/2"	6"	05	B	4			95
B	3			10					
B	3			15					
B	3			20					
B	3			25					
B	2			30					
B	4			35					
B	4			40					
B	4			45					
B	4			50					
B	3			55					
B	3			60					
B	3			65					

SUMMARY OF DELINEATORS, ITEM 702
TYPE I DELINEATORS, WITH PLATES 63
TYPE II DELINEATORS, DOUBLE AMBER 77
TYPE III DELINEATORS, TRIPLE AMBER 36
TYPE I DELINEATORS TOTAL = 176

IDENTIFICATION OF TRAFFIC SIGNS

Traffic signs are identified on these plans by a number prefixed by a letter which indicates the following general classifications:

- GA - Large size guide signs
- G - Other guide signs
- R - Regulatory signs
- W - Warning signs

Traffic sign assemblies which consist of groups of signs mounted together, are identified by a letter - such as "ASSEMBLY A" - and the individual signs comprising the assembly are identified by their individual sign numbers.

SIGN POST HARDWARE: ALL SIGNS AND ASSEMBLIES ARE TO BE MOUNTED ON SIGN POSTS BY 3/8 DIAM. STAINLESS STEEL BOLTS, WASHERS AND ELASTIC STOP NUTS. ALL FLAT SHEET SIGNS HAVE A 1" O.D. x 7/16" I.D. FLAT WASHER UNDER THE BOLT HEAD AND PLYWOOD SIGNS ALSO HAVE A SPRING LOCK WASHER UNDER THE STOP NUT. COMMERCIAL PANELS KNOWN AS "EXTRUSHEET" IN MULTIPLE WIDTHS AND MEETING THE STRENGTH REQUIREMENTS FOR ALUMINUM SIGNS ON THIS PROJECT MAY BE USED ON THIS PROJECT.

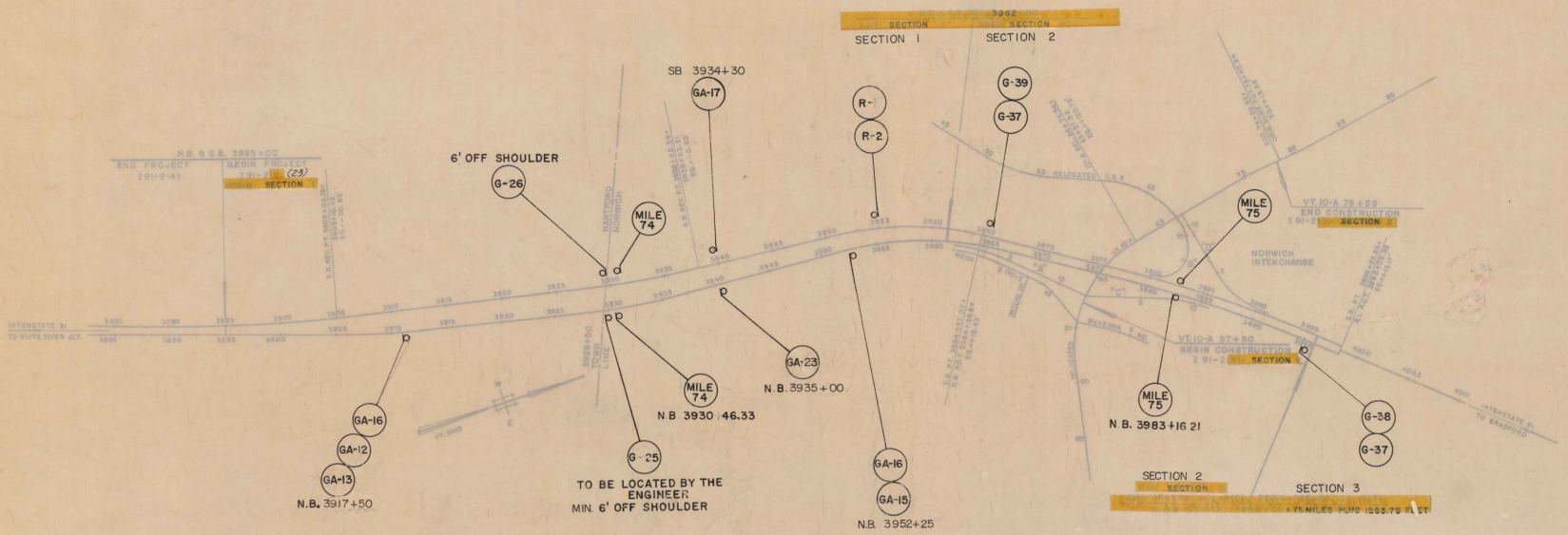
STA 3895+00 TO STA 3996+00

HARTFORD-NORWICH

DESIGNED BY: PIRIE DATE: 12/52
DRAWN BY: PIRIE DATE: 12/52
TRACED BY: PIRIE DATE: 1/53

TRAFFIC SIGN AND DELINEATOR SUMMARY SHEET

STAGE 2 CONSTRUCTION
PROJ. I No. 91-2
SHEET 92 OF 100 (23)



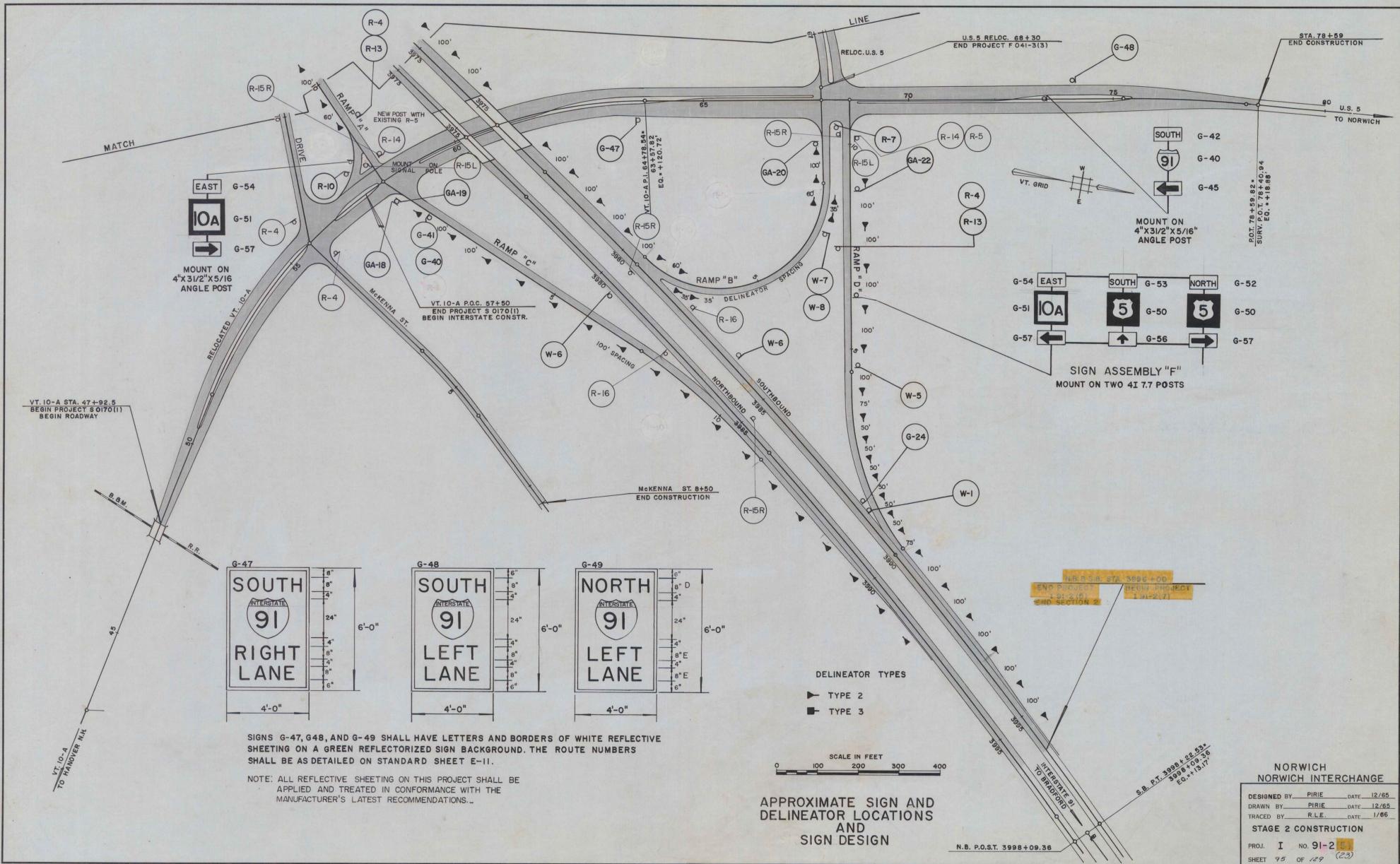
APPROXIMATE SIGN LOCATIONS

HARTFORD-NORWICH

DESIGNED BY: PIRIE DATE: 11/65
 DRAWN BY: PIRIE DATE: 11/65
 TRACED BY: R.L.E. DATE: 1/66

STAGE 2 CONSTRUCTION
 PROJ. 1 NO. 91-2 (23)
 SHEET 94 OF 129 (23)

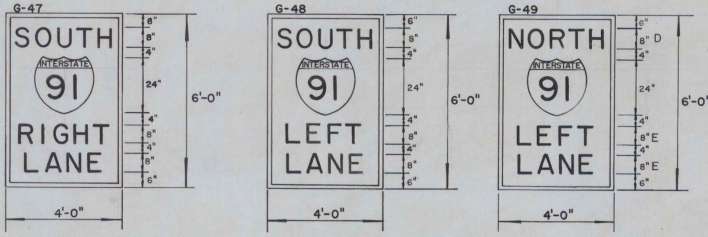
GA SIGNS ON THIS PROJECT ADJACENT TO THE THRUWAY, ARE TO BE LOCATED 30 FEET FROM THE EDGE OF THE SLOW SPEED LANE. LOCATIONS HAVE BEEN FIELD CHECKED.



IOA
 EAST
 MOUNT ON 4"x31/2"x5/16" ANGLE POST

SOUTH 91
 SOUTH
 MOUNT ON 4"x31/2"x5/16" ANGLE POST

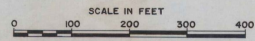
SIGN ASSEMBLY "F"
 MOUNT ON TWO 4I 7.7 POSTS



SIGNS G-47, G-48, AND G-49 SHALL HAVE LETTERS AND BORDERS OF WHITE REFLECTIVE SHEETING ON A GREEN REFLECTORIZED SIGN BACKGROUND. THE ROUTE NUMBERS SHALL BE AS DETAILED ON STANDARD SHEET E-11.

NOTE: ALL REFLECTIVE SHEETING ON THIS PROJECT SHALL BE APPLIED AND TREATED IN CONFORMANCE WITH THE MANUFACTURER'S LATEST RECOMMENDATIONS.

DELINATOR TYPES
 TYPE 2
 TYPE 3



APPROXIMATE SIGN AND DELINATOR LOCATIONS AND SIGN DESIGN

NORWICH NORWICH INTERCHANGE
 DESIGNED BY: PIRIE DATE: 12/65
 DRAWN BY: PIRIE DATE: 12/65
 TRACED BY: R.L.E. DATE: 1/66
STAGE 2 CONSTRUCTION
 PROJ. I NO 91-2
 SHEET 95 OF 129 (23)

U.S. 5 STA. 44+00
END PROJECT FO41-3(3)

U.S. 5
TO WHITE RIVER JCT.

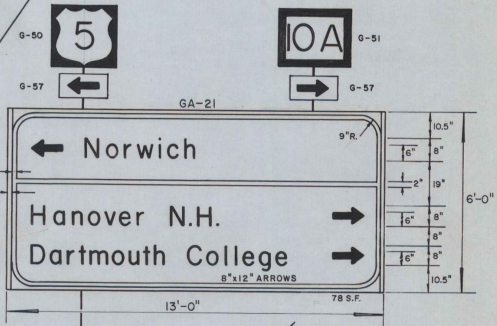
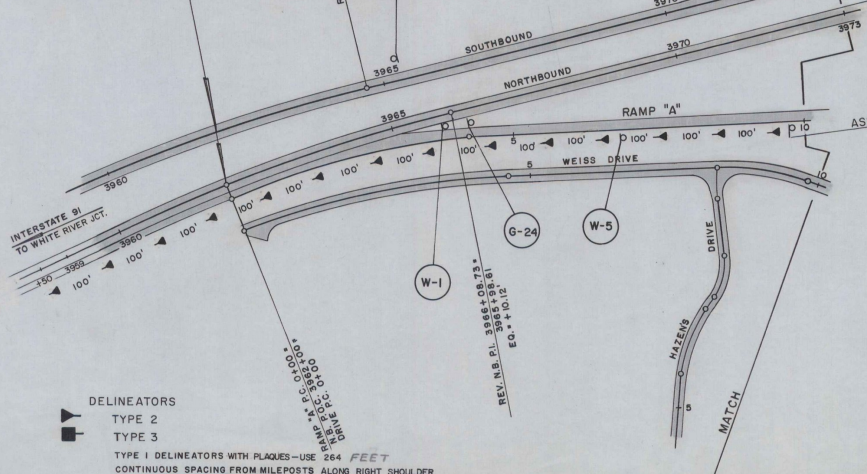
45 50 55 60 65 67

SIGNS GA-21 AND GA-22 SHALL HAVE NON-REFLECTORIZED
BLACK TEXT ON A WHITE SIGN BACKGROUND OF REFLECTIVE
SHEETING.
THE LETTERS (STANDARD MODIFIED SERIES E)
AND ARROWS SHALL BE EMBOSSED ALUMINUM.

PROJECT 191-215
N.B.S.P. 3960+00
END SECTION 1 BEGIN SECTION 2

REV. S.B.P. 3964+00.7
EQ. 14 10 43

G-39
G-37

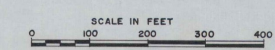


DELINEATORS

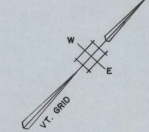
- ▲ TYPE 2
- TYPE 3

TYPE 1 DELINEATORS WITH PLAQUES—USE 64 FEET
CONTINUOUS SPACING FROM MILEPOSTS ALONG RIGHT SHOULDER

TYPE 1 DELINEATORS WITHOUT PLAQUES AT DOUBLE SPACING ALONG THE MEDIAN.



APPROXIMATE SIGN AND
DELINEATOR LOCATIONS
AND SIGN DESIGN.



**NORWICH
NORWICH INTERCHANGE**

DESIGNED BY: PIRIE DATE: 12/65
DRAWN BY: PIRIE DATE: 12/65
TRACED BY: R.L.E. DATE: 1/66
STAGE 2 CONSTRUCTION
PROJ. I NO. 91-2 (23)
SHEET 96 OF 129

Vermont Agency of
Transportation
PHASE 1-INTERSTATE
#122302-01
INITIALS
PHONE HANGER 623

Hartford-Norwich

I-91-2 (23)

*
1967
1968

1967
1968