

INDEX OF SHEETS

1. TITLE SHEET
2. QUANTITY SHEET
3. PLAN & PROFILE
4. PLAN SHEET
5. PLAN & ELEVATION
6. SUPERSTRUCTURE DETAILS
7. ABUTMENT DETAILS
8. REINFORCING SCHEDULE
- 9-13 ROADWAY X-SECTIONS
- 14-17 CHANNEL X-SECTIONS

Std. Sheets

- D-2 12-16-76 (R)
 G-1a 11-29-77 (R)
 SB-R6-76 1-B-76
 SCB-DI-75 4-25-77 (R)
 E-2 6-7-77 (R)
 E-3 6-7-77 (R)

GENERAL NOTES:

1. For additional notes see standard Sht. SCB-DI-75 Notes 4, 6, 7 & 14
2. Overflow conditions will occur at Q20. If the roadway grade is raised in the future, flood water depths would be increased upstream over those presently predicted. The hydraulic requirements should be rechecked if such a project were ever contemplated.
3. All abutment and superstructure concrete shall be C1555 B.
4. All exposed concrete shall be coated with Water Repellent.

STATE OF VERMONT DEPARTMENT OF HIGHWAYS



PROPOSED IMPROVEMENT BRIDGE PROJECT

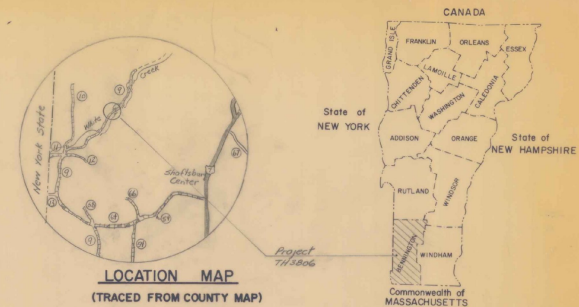
TOWN OF SHAFTSBURY
COUNTY OF BENNINGTON

ROUTE NO: Class 3 TH 9 BRIDGE NO: 19

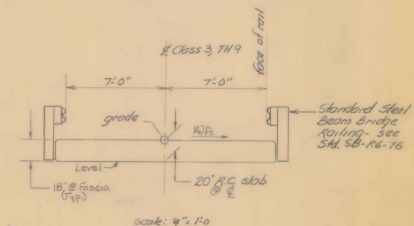
PROJECT LOCATION: Project shall begin 1/2 mile northeast of the intersection of TH 9 and TH 10 and extend 350 feet northeasterly along TH 9.

PROJECT DESCRIPTION: Project shall consist of the removal of the existing structure, replacement with a new simple span RC slab bridge with new abutments, and required roadway and channel work.

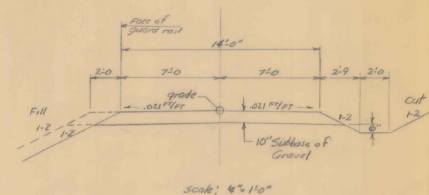
LENGTH OF STRUCTURE:	24	FEET
LENGTH OF PARTICIPATION ROADWAY:	200	FEET
LENGTH OF NON-PARTICIPATION ROADWAY:	326	FEET
LENGTH OF PROJECT	550	FEET



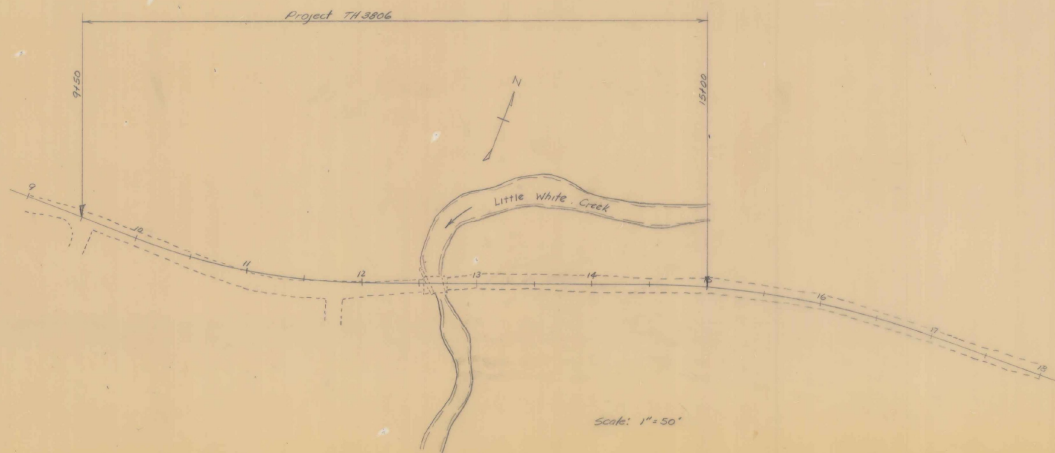
LOCATION MAP
(TRACED FROM COUNTY MAP)



TYPICAL BRIDGE SECTION



TYPICAL ROADWAY SECTION



Scale: 1" = 50'

CONVENTIONAL SIGNS

- COUNTY LINE
- TOWN LINE
- LIMITS OF ACCESS
- POINT OF ACCESS
- FENCE LINE
- STONE WALL
- TRAVELED WAY
- GUARD RAIL
- RAILROAD
- SURVEY LINE
- CULVERT
- POWER POLE
- TELEPHONE POLE
- TREES
- F.A. CONST. IDENTIFICATION SIGNS
- PROPERTY LINE
- R.O.W. TAKING LINE
- SLOPE RIGHTS
- TOP OF CUT
- TOE OF SLOPE

SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD	
APPROVED <u>A. J. Gage</u>	DATE <u>8-31-78</u>
CHIEF ENGINEER	
Class 3 TH 9 Over Little White Creek	
PROJECT NO. <u>SHAFTSBURY TH 3806</u>	
SHEET 1 OF 19 SHEETS	

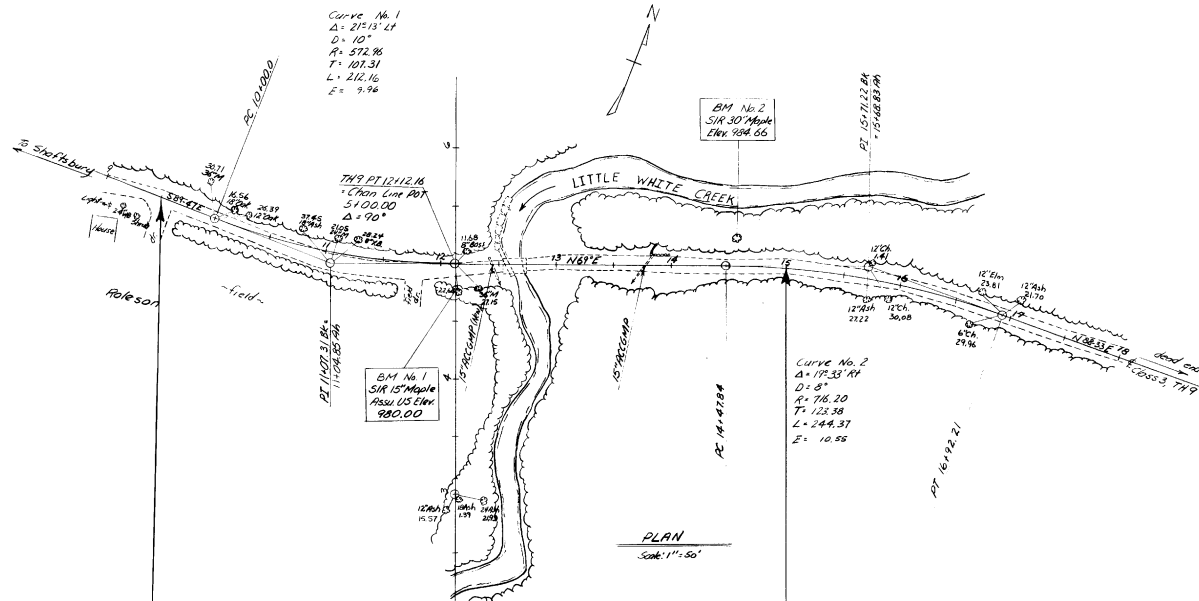
EARTHWORK														
V.C.	% GRD	STATION	GRADES		CORR. V.C.	DIST.	Common Section		Earth Section		Subgrade Section		AREA	
			ON TAN.	ON V.C.			AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.		
300' W.C.	-6.0%	910	991.50											
		+50	988.17	988.48	+0.31	50	0	4	40	11		22		
		1010	988.83	988.06	-0.77	50	4	8	45	21		24		
		+50	981.50	984.26	+2.76	50	5	12	45	24		24		
		1110	981.85	983.08	+1.23	50	8	24	24	13		24		
		+50	982.20	982.51	+0.31	50	20	26	17	38		13	24	
		+55				5	20	4	17	3		13	2	
		1210	982.55			45	10	32	17	28		13	24	
		+50	983.90			50	0	17	13	27		16	25	
		135	986.93			5	0	13	13	11		16	25	
200' W.C.	-6.0%	+79	983.10			31	13	23	13	11		10		
		1310	983.25			0	0	5	5	16		13	27	
		+50	983.60			50	5	20	20	21		13	14	
		+79				21	9	4	20	14		13	16	
		1410	983.45			50	0	15	15	22		13	24	
		+50	984.30			50		9	8	13		11	22	
		1510	984.65					0						
		+50	985.00											
State Aid Fund Participation														
							62	169			102			
Borrowing							8	X 12	Field					
							70	203	Fill					
								- 62	Flows					
								161						
								29						
								150						
Non State Aid Fund Participation														
							58	270			152			
Borrowing							60	264			8			
								264			160			
								264						
								270						

[illegible]

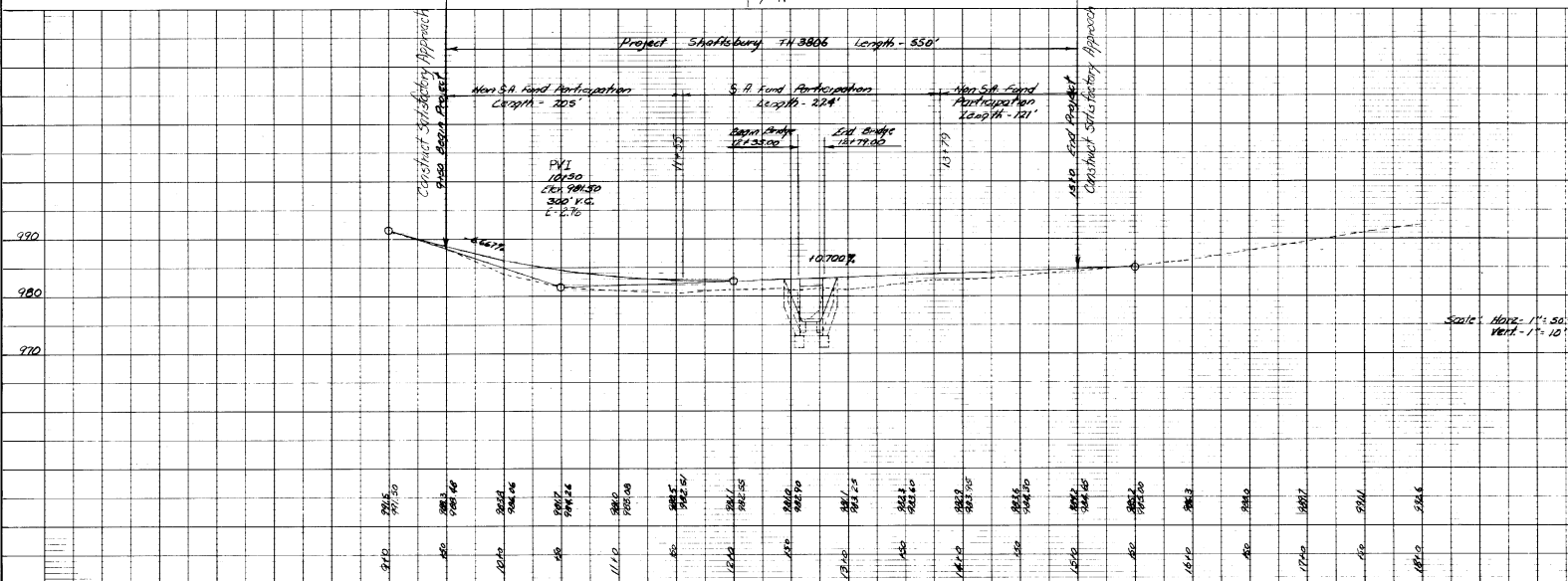
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10/27/22	10/27/22	10/27/22	10/27/22	10/27/22	10/27/22

PR FILE	DATE	BY	CHECKED	DATE	BY
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10/27/22	10/27/22	10/27/22	10/27/22	10/27/22	10/27/22
10/27/22	10/27/22	10/27/22	10/27/22	10/27/22	10/27/22

Existing Bridge Data
Span - 16'
Width - 14'
Rough deck with log beams
& Log abutments



HYDRAULIC DATA
Drainage Area = 4.8 sq. mi. (12.5 sq. km)
Q₁₀ = 800 cfs (23 cms); HW = 5.7' (1.7 m)
Q₂₅ = 1000 cfs (28 cms); HW = 6.7' (2.0 m)
Q₅₀ = 1300 cfs (37 cms); HW = 8.0' (2.4 m)
Q₁₀₀ = 1500 cfs (43 cms); HW = 8.5' (2.5 m)
Tailwater @ Q₂₅ = 4.3' (1.3 m)
Outlet Velocity @ Q₂₅ = 11.6 FPS (3.5 mps)
Ordinary High Water 15 cfs
Depth of flow 1.5'

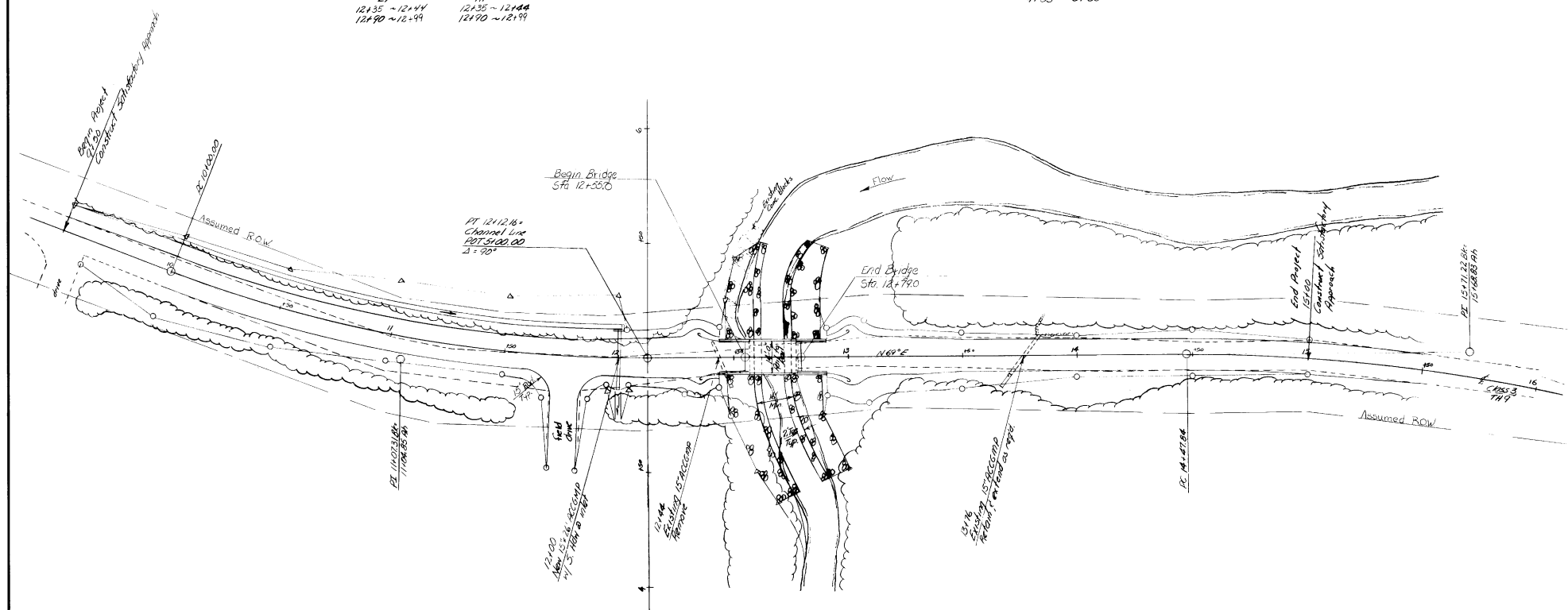


Shaftsbury
743806

Sheet 3 of 19

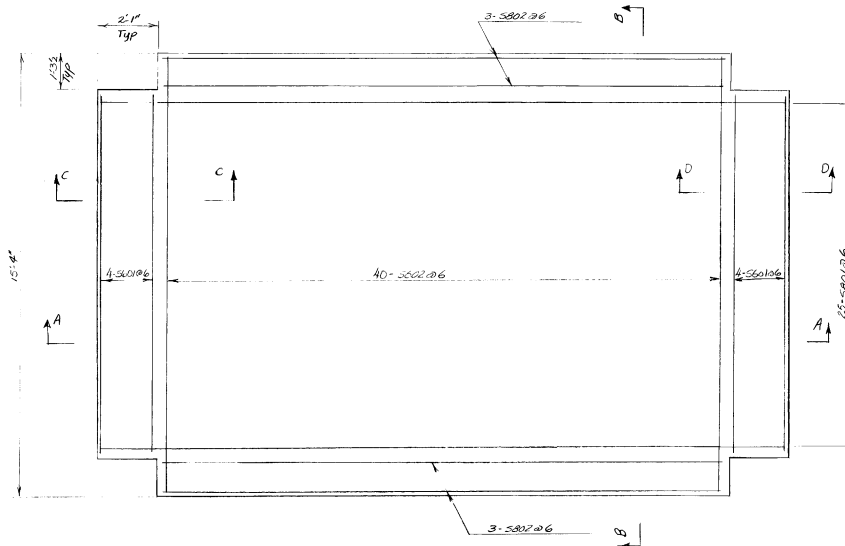
LT	RT
12+35 ~ 12+44	12+35 ~ 12+44
12+90 ~ 12+99	12+90 ~ 12+99

Channel Line Sta.
4+35 ~ 5+55

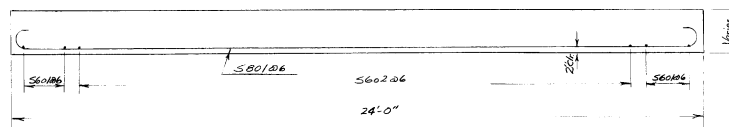


PLAN
Scale: 1" = 20'

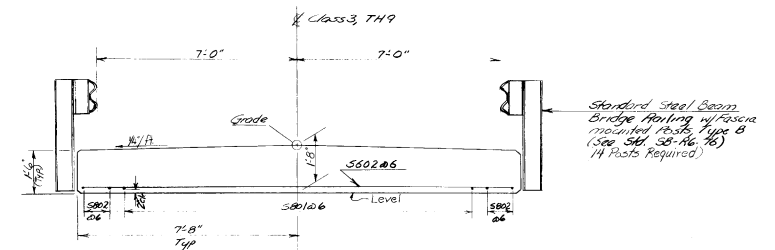
TOWN OF	Shottsburg	Bridge No.	
		Log Sta.	
HIGHWAY NO.	Class 3, TH9	Surv. Sta.	
Class 3, TH9 Over Little White Creek			
Plan			
Designed by	A. Elwood	Drawn by	A. Elwood
Checked by		Bridge Design Supervisor	
LADD	date 1-78	R.S. Haupt	date
PROJECT	SHAFTS BURY		PROJECT NO.
			TH 3806
Bridge Sheet No.	Sheet	4	of 19



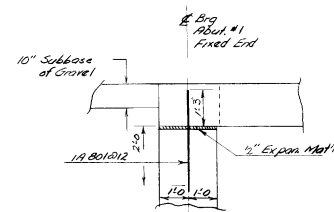
PLAN
Scale: 1/2" = 1'-0"



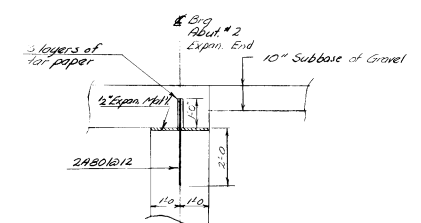
SECTION A-A
Scale: 1/4" = 1'-0"



SECTION B-B
Scale: 1/2" = 1'-0"



SECTION C-C
Scale: 1/2" = 1'-0"

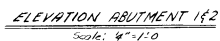
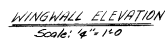
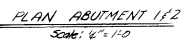


SECTION D-D
Scale: 1/2" = 1'-0"

* Note: 1. All concrete in the superstructure shall be concrete, Class B.

STATE OF VERMONT DEPARTMENT OF HIGHWAYS

TOWN OF	Shaftsbury	Bridge No.	
HIGHWAY NO.	Class 3, TH 9	Log Sta.	
	Class 3, TH 9 Over Little White Creek	Surv. Sta.	12167
	Superstructure Details		
Designed by	A. Elwood	Drawn by	D. Elwood
Checked by	LADD	Bridge Design Supervisor	R.S. Haupt
PROJECT	SHAFTSBURY	PROJECT NO.	TH 3806
Bridge Sheet No.	Sheet 6	of 19	



- STATE OF VERMONT
-
- DEPARTMENT OF HIGHWAYS

BR 6

[illegible]

TYPICAL BAR BENDS

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 8 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT; ASTM NO. 31 (ASTM A 315), GRADE 60."
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED MIN DIAMETER "D" OF BENDS AND HOOKS AND OTHER STANDARD PRACTICE SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE"
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180° AND 135° HOOKS.
5. "J" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "M" AND "N" MUST BE SHOWN.

* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.

$$\begin{array}{r} 2.3 \\ 1.10 \\ \hline 4.1 \end{array}$$

11 R JR

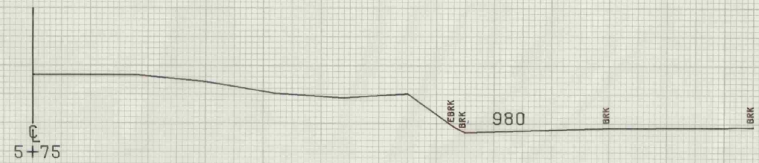
REV	MADE		
-----	------	--	--

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT" AASHTO M 31 (ASTM A 615), GRADE 60.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS AND OTHER STANDARD PRACTICE SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE."
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "X" AND "Q" ON STANDARD 180° AND 135° HOOKS.
5. "J" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "H" AND "K" MUST BE SHOWN

* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.

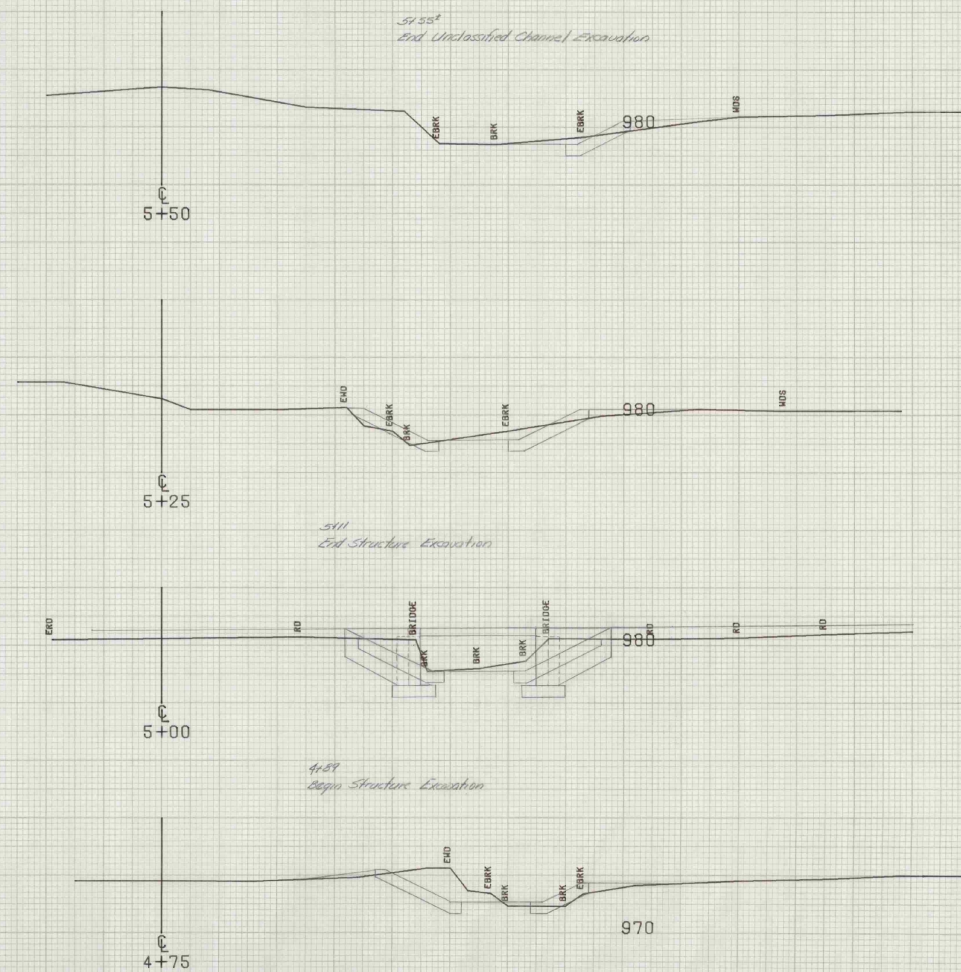
REV. NO.	MADE BY	DATE	DESCRIPTION
1	J. WOOD	8/11/75	AASHTO CHANGED TO AASHTO AND GRADE 40 CHANGED TO GRADE 60.

STATE OF VERMONT DEPARTMENT OF HIGHWAYS			
TOWN OF	BRIDGE NO.		
HIGHWAY NO.	LOG STA.		
	SURV. STA.		
REINFORCING		STEEL SCHEDULE	
DESIGNED BY		DRAWN BY	
CHECKED BY		BRIDGE DESIGN SUPERVISOR	
DATE		DATE	
PROJECT		PROJECT NO.	
BRIDGE SHEET NO.		SHEET OF	



SCALE 1" = 10 FEET

FROM STA. 5+75	TO STA. 5+75
PROJECT NAME	SHAFTSBURY CHANNEL LINE
NO.	FM3908
SURVEYED BY	FANTONI
SHEET 19 OF 19	SHEETS
	10/77



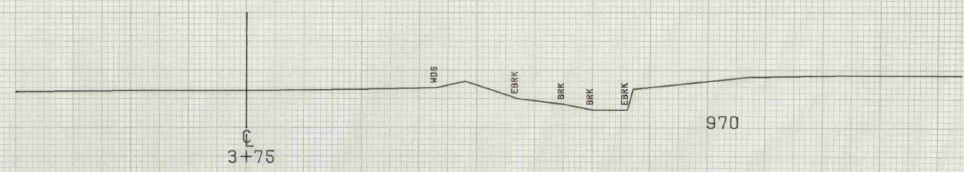
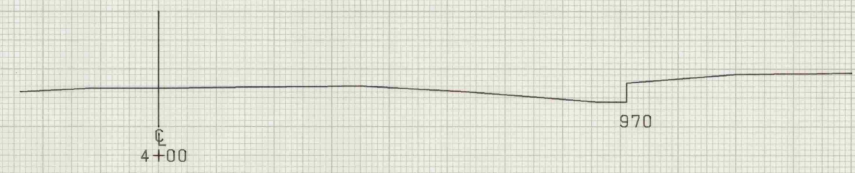
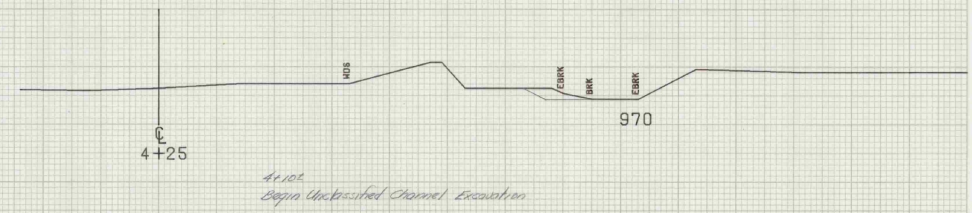
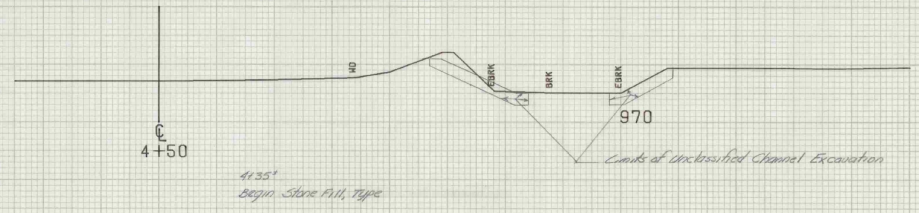
5+50
End Unclassified Channel Excavation

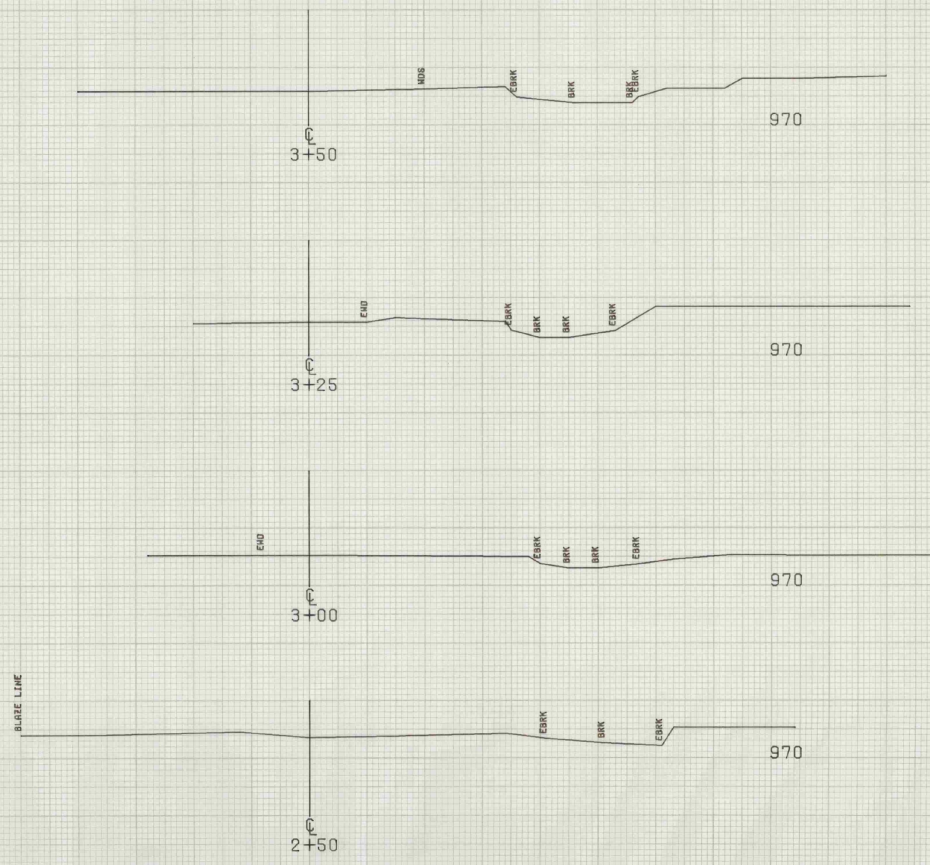
5+11
End Structure Excavation

4+89
Begin Structure Excavation

SCALE 1" = 10 FEET

FROM STA. 4+75	TO STA. 5+50
PROJECT NAME	SHAFTSBURY CHANNEL LINE
NO. 1	TH3808
SURVEYED BY	FANTONI
SHEET 18 OF 19	PLOTTED 10/24/77
	10/77
	SHEETS





SCALE 10 FEET

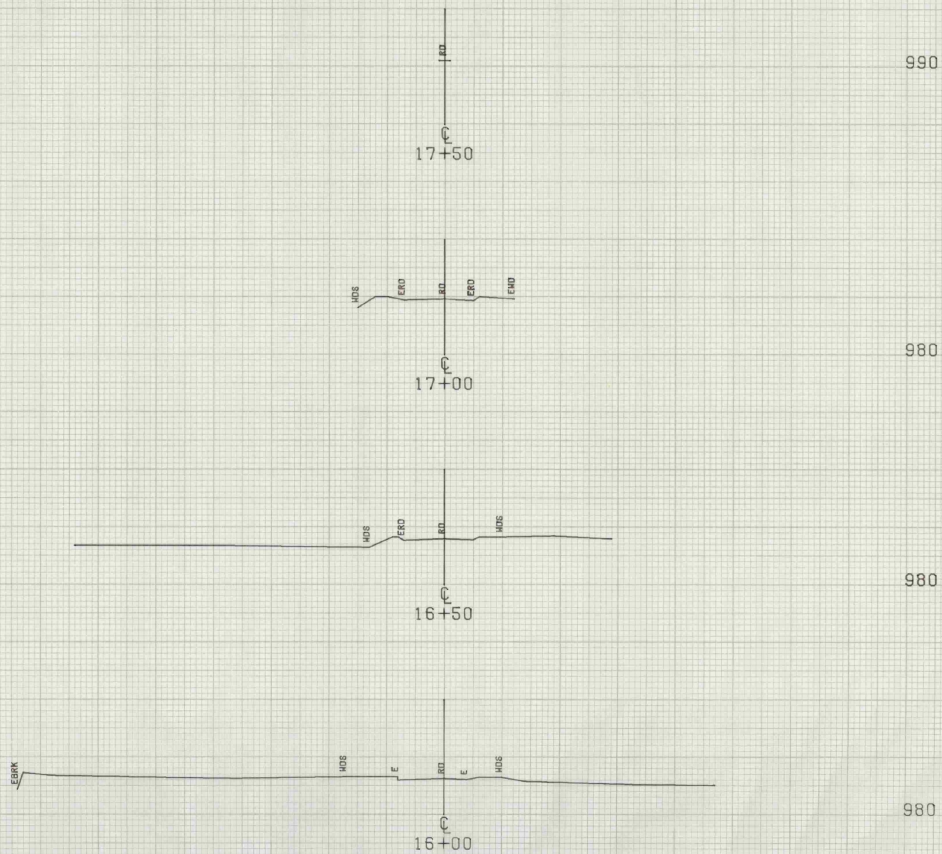
FROM STA. 2+50	TO STA. 3+50
PROJECT NAME	SHAFTSBURY CHANNEL LINE
NO. 103008	PLOTTED 10/24/77
SURVEYED BY FANTONI	10/77
SHEET 10 OF 19	SHEETS

18+00

990

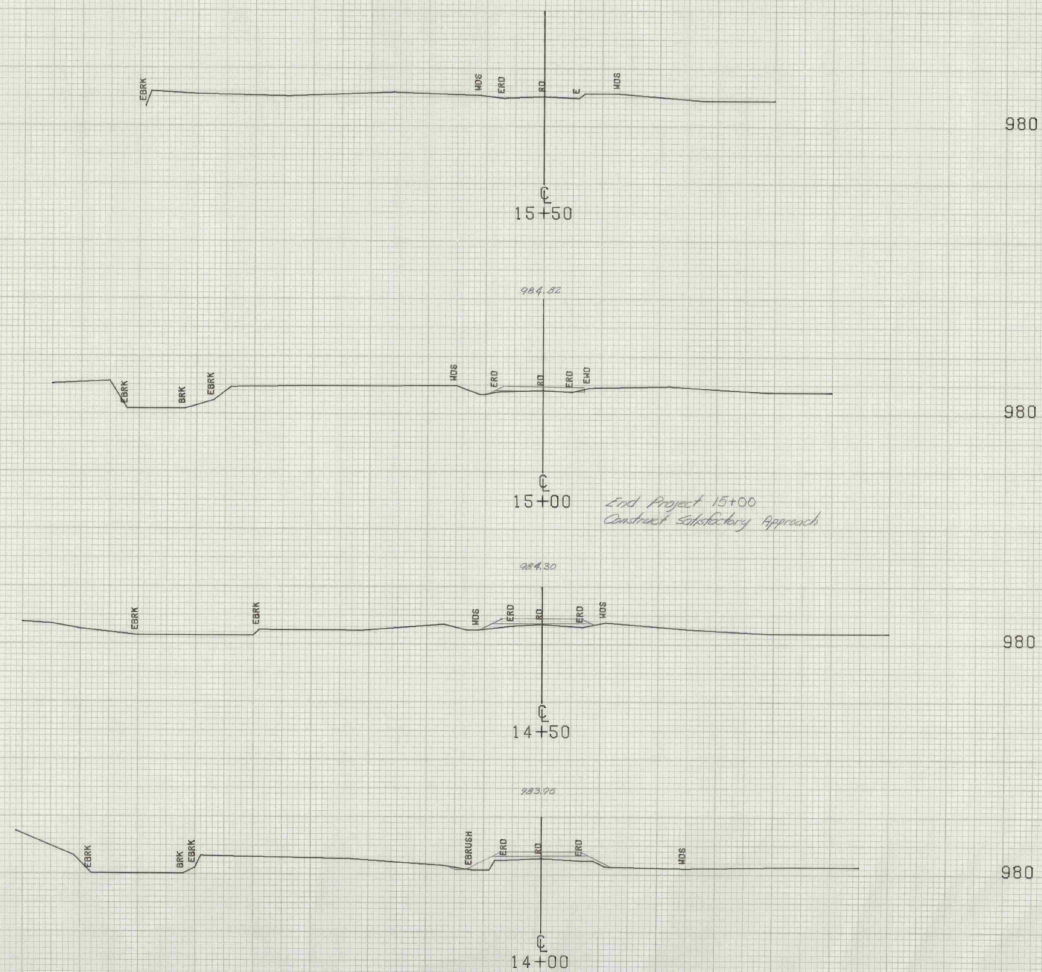
SCALE 1" = 10' FEET

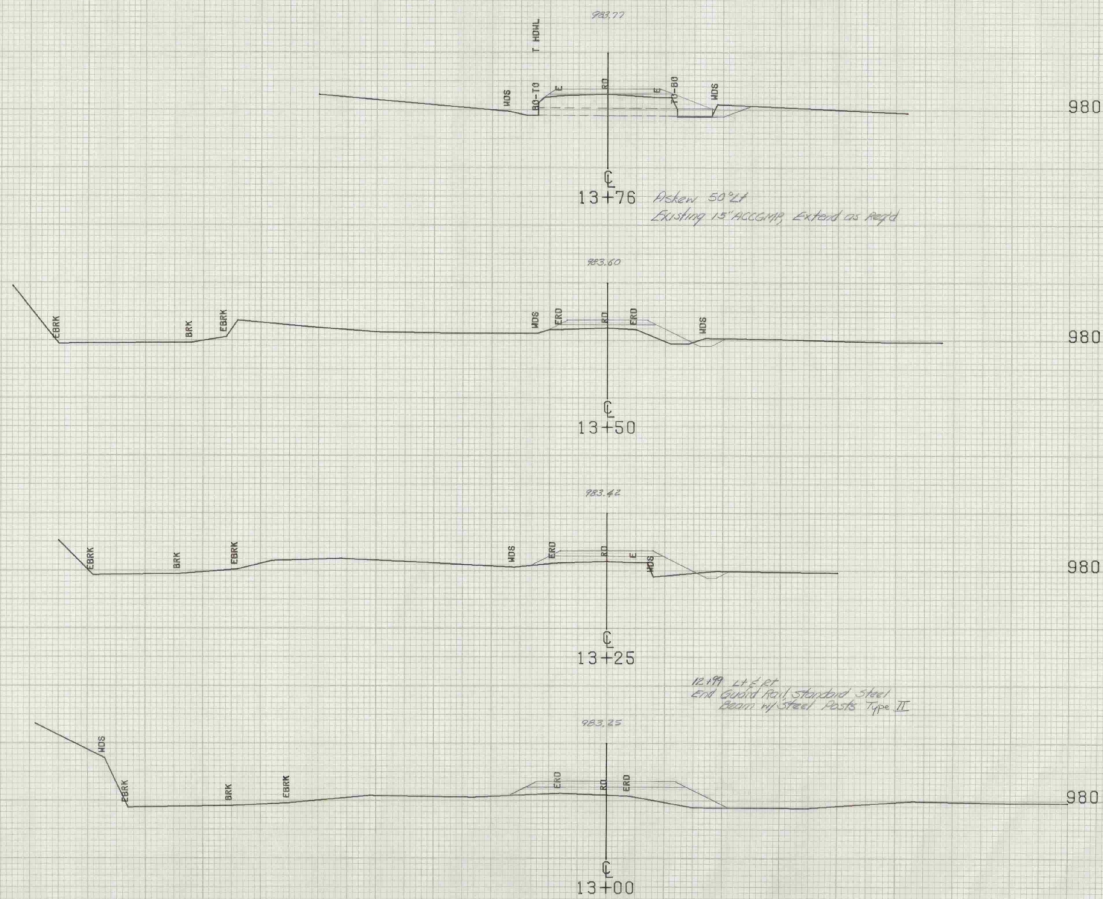
FROM STA. 18+00	TO STA. 18+00
PROJECT NAME	SHAFTSBURY
NO.	TH3808
SURVEYED BY	FANTONI
SHEET 12 OF 19	SHEETS



FROM STA. 16+00	TO STA. 17+50
PROJECT NAME	SHAFTSBURY
NO.	TH3806
SURVEYED BY	FANTONI
SHEET 17 OF 17	SHEETS
	PLOTTED 10/24/77
	10/77

SCALE 1" = 10' FEET





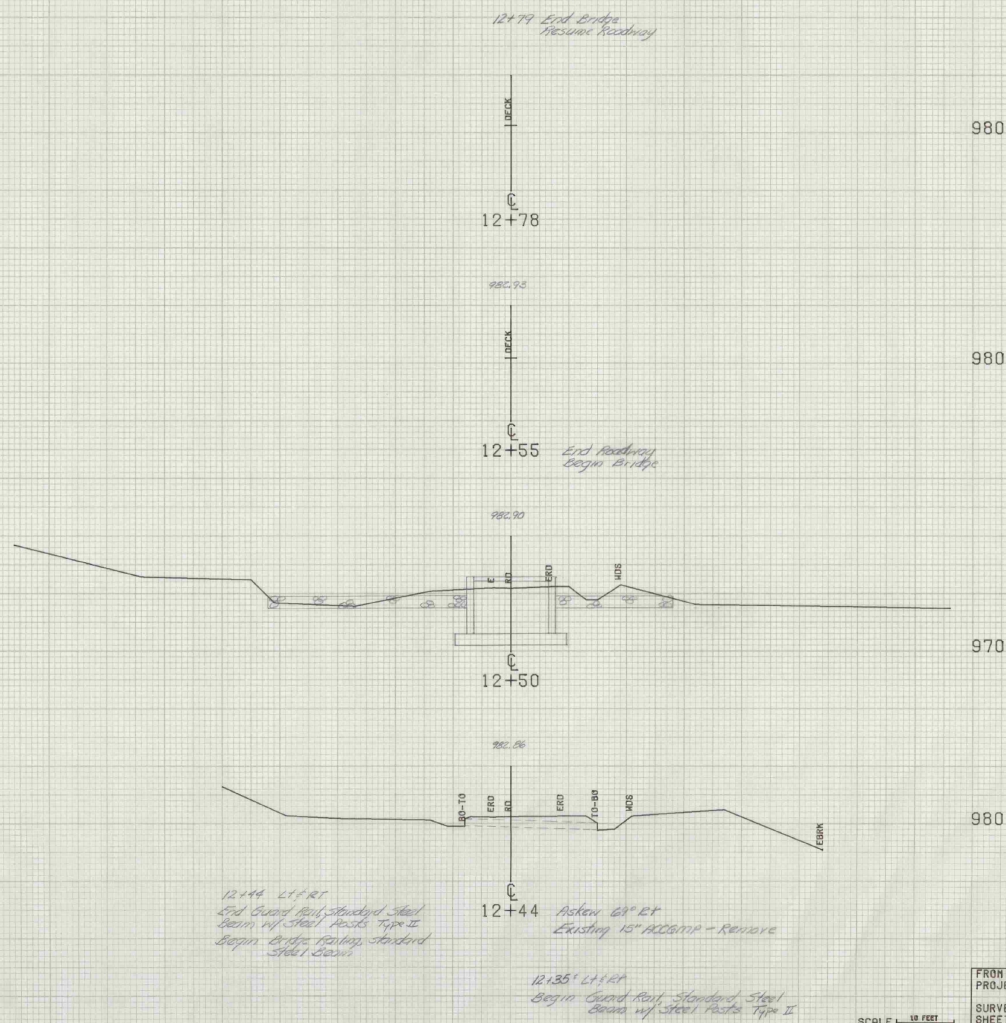
As shown 50' x 15' ACOSM, extend as single

12' x 14' of
End Girder Rail Standard Steel
Beam w/ Steel Posts Type II

12' x 14' of
End Girder Rail Standard Steel Beam
Beam w/ Steel Posts Type II

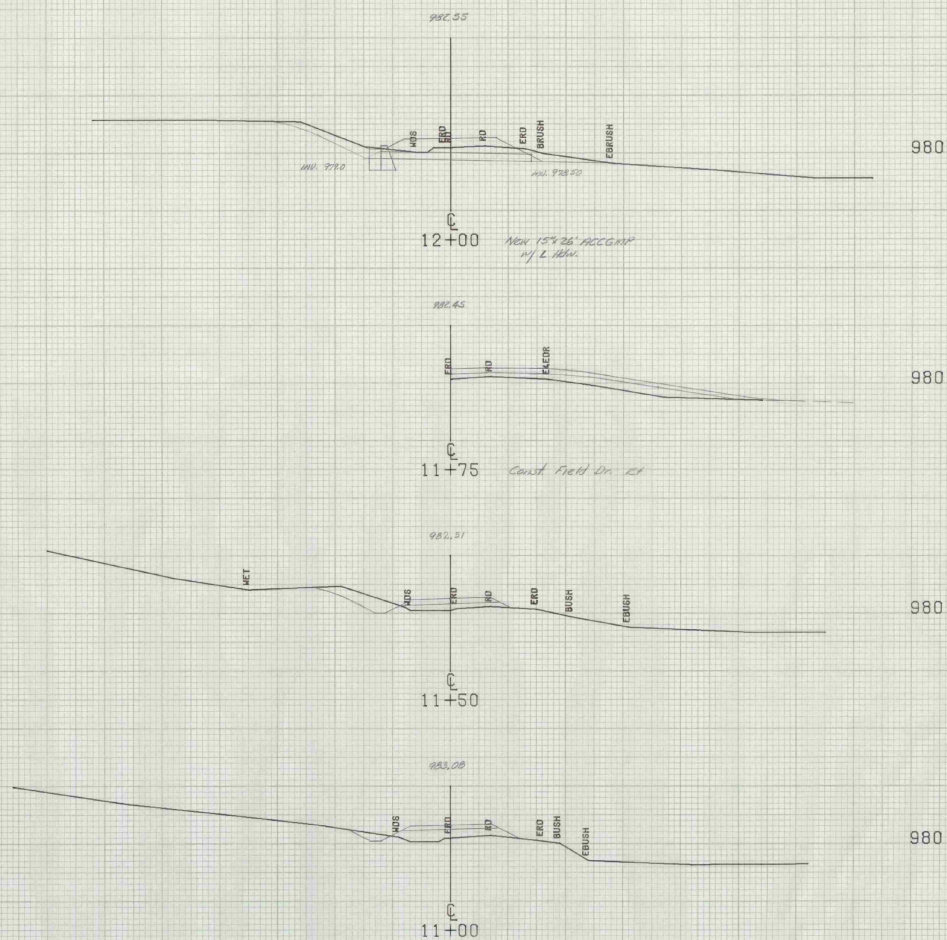
SCALE 1" = 10 FEET

FROM STA. 13+00	TO STA. 13+76
PROJECT NAME	SHAFTSBURY
NO.	TH3806
SURVEYED BY	FANTONI
SHEET 2 OF 19	PLOTTED 10/24/77
	10/77



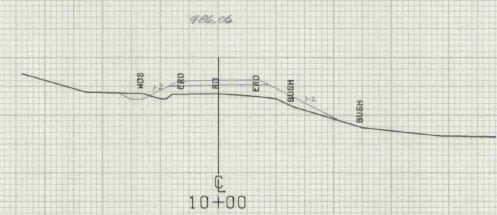
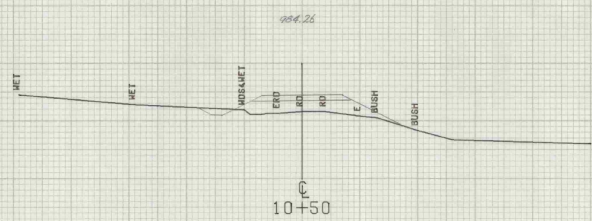
FROM STA. 12+44	TO STA. 12+79
PROJECT NAME	SHAFTSBURY
NO.	TH3006
SURVEYED BY	FANTONI
SHEET 11 OF 19	SHEETS
	10/77

SCALE 1" = 10 FEET



FROM STA. 11+00	TO STA. 12+00
PROJECT NAME	SHAFTSBURY
NO.	TH3605
SURVEYED BY	FANTONI
SHEET 10 OF 19 SHEETS	10/77

SCALE 1" = 10' FEET



FROM STA. 9+00	TO STA. 10+60
PROJECT NAME	SHAFTSBURY
NO.	TH3906
SURVEYED BY	FANTONI
SHEET 7 OF 19	SHEETS
	10/77

SCALE 1" = 10 FEET

*Begin Project 9+50
Current Satisfaction Approval*

Bridge

SHAFTSBURY TH 3806

TH 9 - BR. 19

1979

NEW RC SLAB BRIDGE

FORCE ACCOUNT

1979