

INDEX OF SHEETS

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7. ABUTMENT # 2 DETAILS
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- 12-14. CHANNEL SECTIONS

STANDARDS

15. STD. DWG.	E-3	12/15/78 R
16. STD. DWG.	E-6	4/1/80 R
17. STD. DWG.	E-7	2/2/82 R
18. STD. DWG.	E-7A	4/3/82 R
19. STD. DWG.	G-1	12/16/80 R
20. STD. DWG.	G-1d	12/16/80 R
21. STD. DWG.	SB-R6-82	6/18/82 R
22. STD. DWG.	SCB-01-75	9/14/81 R
23. STD. DWG.	SCB-56-73	1/3/79 R

GENERAL NOTES

1. THE GENERAL NOTE PERTAINING TO SPECIFICATIONS, MATERIALS, AND CONSTRUCTION IS SHOWN ON STANDARD DRAWING SCB-01-75. OTHER GENERAL NOTES ON THE STANDARD, NOT OTHERWISE SHOWN OR MODIFIED ON THESE PLANS, ARE NOTES 4, 6, 7, 14, & 16.
2. WATER REPELLENT SHALL BE APPLIED TO ALL EXPOSED CONCRETE ON BOTH SUBSTRUCTURE AND SUPERSTRUCTURE, EXCEPT THE UNDERSIDE OF THE SLAB BETWEEN DRIP BEADS.
3. IN ALL HORIZONTAL CONSTRUCTION JOINTS, SHEAR KEYS SHALL BE FORMED AS DETAILLED ON STANDARD DRAWING SCB-06-73, DETAIL "B", AND THEY SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE JOINT. ANY UPWARD KEY SHALL BE PLACED INTEGRALLY WITH THE CONCRETE BELOW THE JOINT.
4. TURF ESTABLISHMENT SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER ITEMS IN THE CONTRACT. SEE SPECIAL PROVISIONS.
5. THE EXISTING STRUCTURE WILL BE REMOVED UNDER THE ITEM "REMOVAL OF STRUCTURE". CARE SHALL BE TAKEN DURING THE REMOVAL OF THE EXISTING FIVE FOOT DIAMETER PILE/POLE SO AS NOT TO DAMAGE IT, AS IT SHALL REMAIN THE PROPERTY OF THE TOWN. THE PILE/POLE SHALL BE STORED ON THE PROJECT SITE FOR REMOVAL BY THE TOWN.
6. THE STRUCTURE IS DESIGNED FOR AN H-20-44 LIVE LOAD WITH NO FUTURE PAVEMENT ALLOWANCE.
7. THE ABUTMENTS AND WINGWALLS ARE DESIGNED FOR A MAXIMUM FOOTING PRESSURE OF 4.0 KSF.
8. ALL ON-PROJECT SIGNING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONSIDERED SUBSIDIARY TO ALL OTHER ITEMS IN THE CONTRACT. ALL OFF-PROJECT DETOUR SIGNING WILL BE THE RESPONSIBILITY OF THE TOWN OF MORRISTOWN.
9. TOWN HIGHWAY # 64 MAY BE CLOSED TO THRU TRAFFIC DURING CONSTRUCTION.
10. THE TOWN OF MORRISTOWN SHALL BE NOTIFIED BY THE CONTRACTOR TWO (2) WEEKS PRIOR TO THE CLOSING OF THE ROAD TO THRU TRAFFIC.

FOR CONTINUATION OF GENERAL NOTES
SEE SHEET 2.

CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---
POINT OF ACCESS	X
FENCE LINE	---
STONE WALL	---
TRAVELED WAY	---
GUARD RAIL	---
RAILROAD	---
SURVEY LINE	---
CULVERT	---
POWER POLE	○
TELEPHONE POLE	○
TREES	○
CONTROL OF ACCESS	---
PROPERTY LINE	---
ROW TAKING LINE	---
SLOPE RIGHTS	---
TOP OF CUT	---
TOE OF SLOPE	---

DATUM	
VERTICAL	ASSUMED
HORIZONTAL	1/4"

STATE OF VERMONT AGENCY OF TRANSPORTATION



Dated Oct 18, 1984
Blow & Co Inc
Contractor
Louis Blaw
Signature

[Signature]
Title
Transportation Secretary's Signature

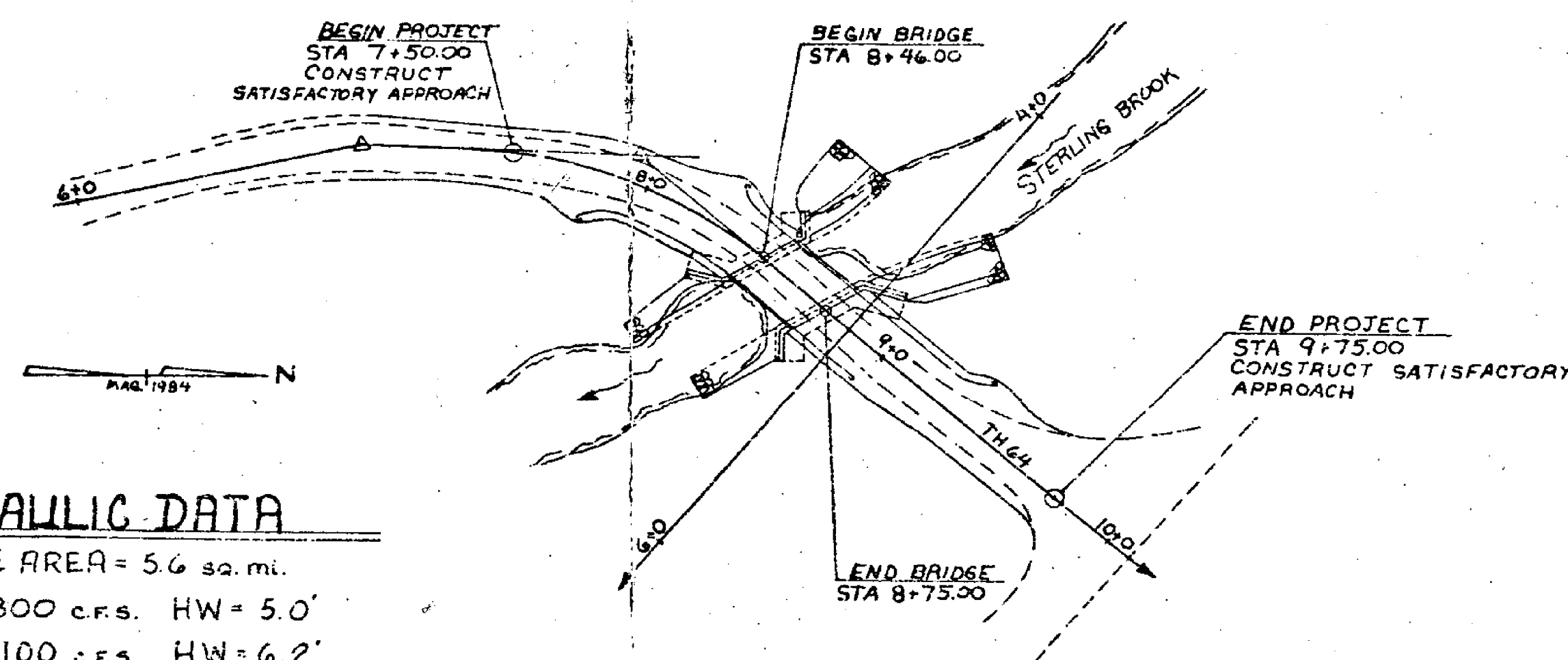
PROPOSED IMPROVEMENT BRIDGE PROJECT

TOWN OF MORRISTOWN
COUNTY OF LAMOILLE

ROUTE NO: TH #64, CL. 3 BRIDGE NO: 35

PROJECT LOCATION: BEGINNING AT A POINT ON TH #64 APPROXIMATELY 0.047 MILES SOUTHERLY OF THE INTERSECTION OF TH #64 AND TH #60 AND EXTENDING NORTHERLY ALONG TH #64 FOR 0.043 MILES.
PROJECT DESCRIPTION: REMOVAL OF EXISTING STRUCTURE, CONSTRUCTION OF A NEW REINFORCED CONCRETE SLAB DECK WITH NEW CONCRETE ABUTMENTS AND WINGWALLS, ROADWAY APPROACHES AND RELATED CHANNEL WORK.

LENGTH OF STRUCTURE: 29.00 FEET
LENGTH OF ROADWAY: 196.00 FEET
~~LENGTH OF NON-PARTICIPATION ROADWAY: FEET~~
LENGTH OF PROJECT: 225.00 FEET



HYDRAULIC DATA

DRAINAGE AREA = 5.6 sq. mi.

$Q_{10} = 800$ c.f.s. HW = 5.0'

$Q_{25} = 1100$ c.f.s. HW = 6.2'

$Q_{50} = 1300$ c.f.s. HW = 7.0'

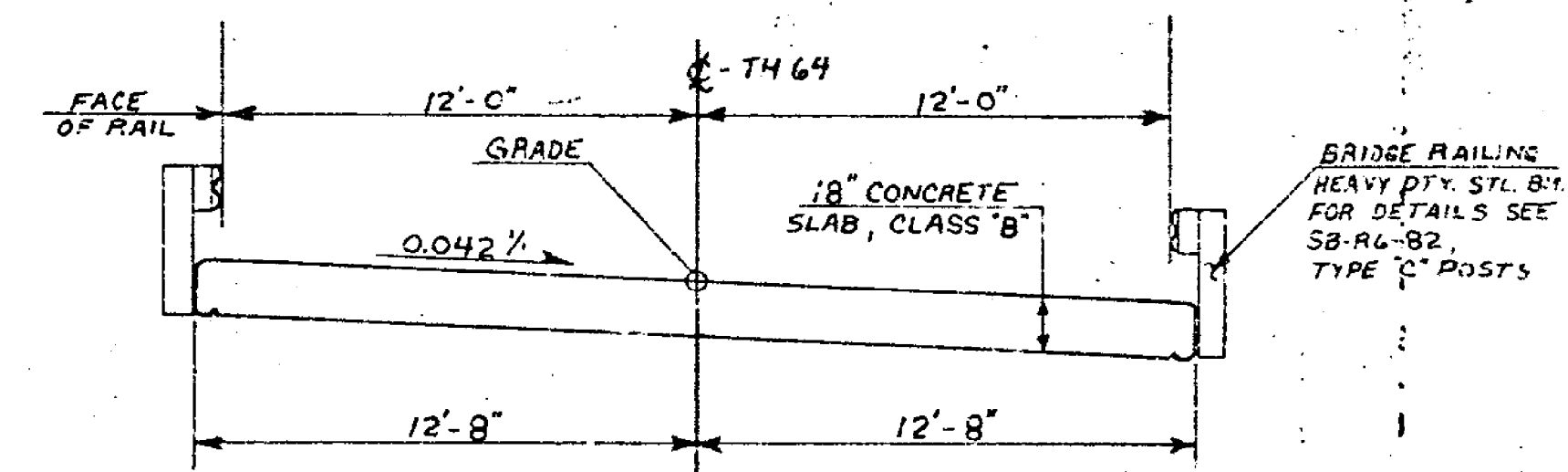
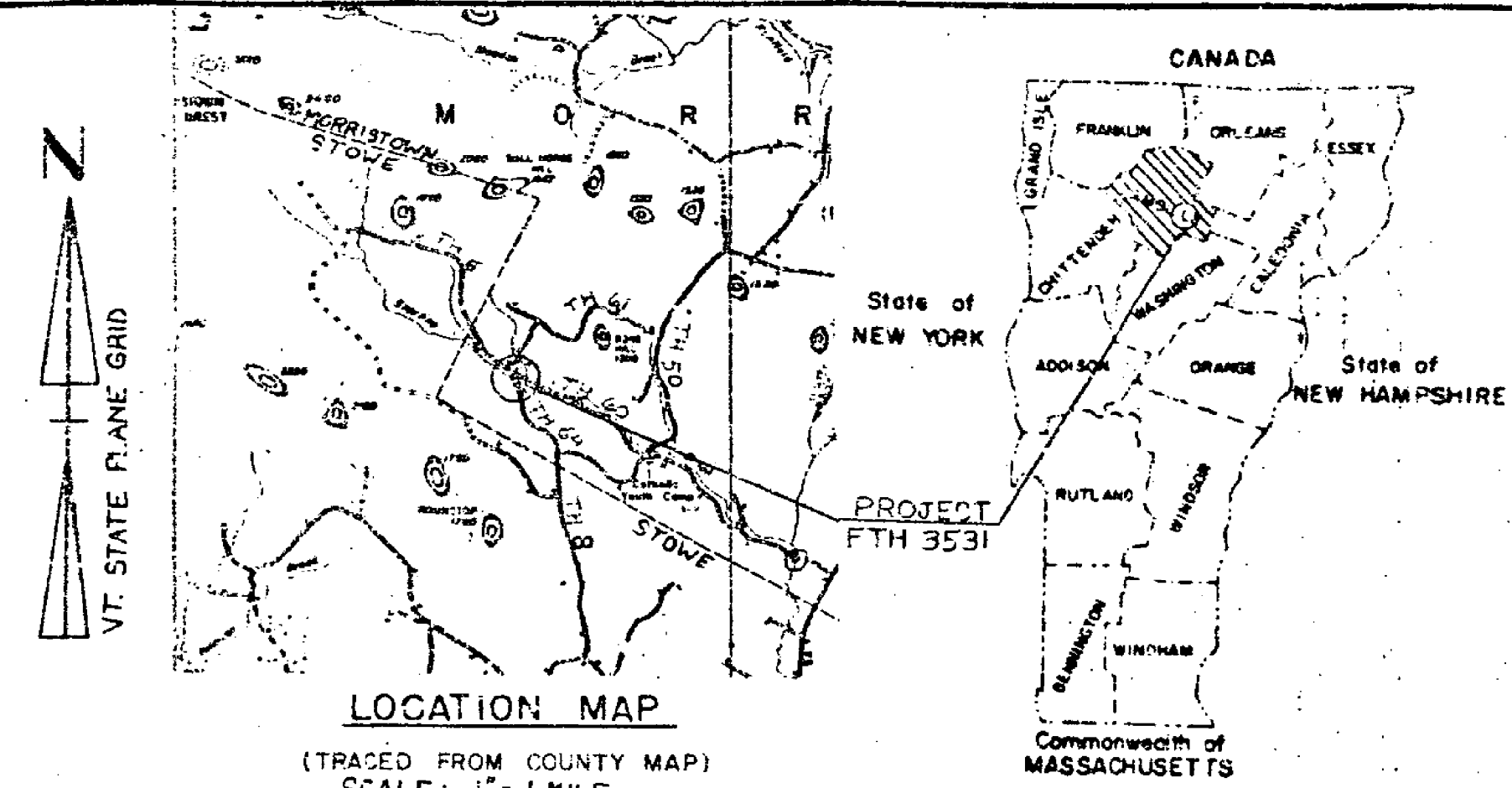
$Q_{100} = 1500$ c.f.s. HW = 7.9'

TAILWATER @ $Q_{25} = 3.8'$

VELOCITY @ $Q_{25} = 12.1$ FPS.

TYPE III STONE FILL

PLAN
1" = 40'-0"

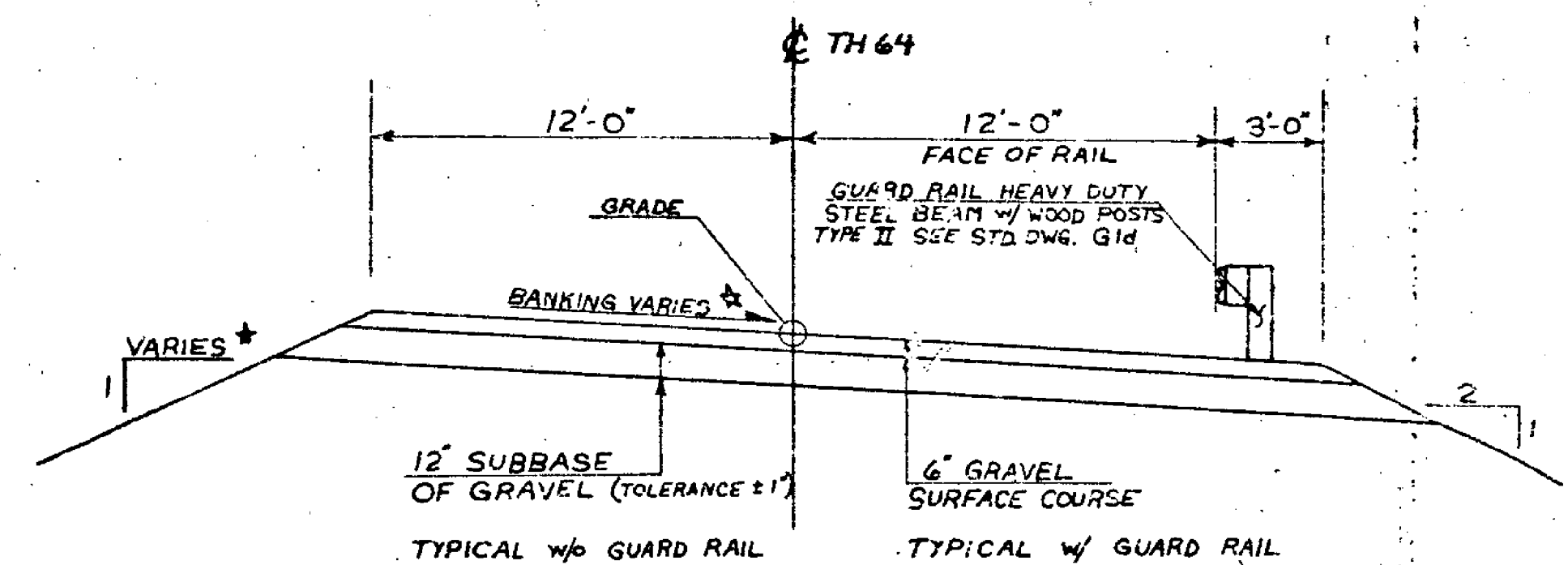


CONTRACT PLANS

THESE PLANS DO NOT REFLECT
CHANGES MADE ON THE PROJECT.

TYPICAL BRIDGE SECTION

SCALE: 1/4" = 1'-0"



TYPICAL ROADWAY SECTION

SCALE: 1/4" = 1'-0"

* - SEE ROADWAY SECTIONS FOR SIDE
SLOPES AND BANKING DIAGRAMS.

These plans are subject to such engineering changes as may be required by the Federal Highway Administration or the Director of Engineering and Construction.
Construction is to be carried on in accordance with these plans and the Standard Specifications for Highway and Bridge Construction dated March, 1976, as approved by the Federal Highway Administration on October 27, 1976 for use on this project, including all subsequent revisions and such revised specifications and special provisions as are incorporated in these plans.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD
APPROVED [Signature] DATE 9-10-84
DIRECTOR OF ENGINEERING AND CONSTRUCTION

PROJECT
MORRISTOWN FTH 3531

SHEET 1 OF 23 SHEETS

C-10

9/24/77/81

EARTHWORK

V.C.	% GRD	STATION	GRADES		CORR. V.C.	DIST.	COMMON EXCAVATION		SUBBASE OF GRAVEL		GRAVEL SURFACE COURSE		FILL	
			ON TAN.	ON V.C.			AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
PVI	-2.42%	7+00	497.5	497.5	+0.00	50								
PVI		7+50	496.30	496.95	+0.65	25	25	27	12	24	0	18		
PVI		8+00	497.70	497.70	+0.00	25	2	32	55	14	24	19		
		8+25	498.40			16							29	
		8+41	498.85			5	2	55		24	19			
		8+46	498.99	BEGIN BRIDGE		4	0	32		14				
		8+50	499.10			25	0							
		8+75	499.80	END BRIDGE		5	0	35		16				
		8+80	499.94			20	15	32		15	26	19		
		9+00	500.50			25	32	35		16	26			
		9+25	501.20			25		95		64	29	24		
		9+50	501.90			25	71	34		31	14	0		
		9+75	502.60			25	71	34		31	14	0		
SUBTOTAL								203cy		237cy		106cy		90cy
FILL NEEDED IN CHANNEL								7		3		4		6
+ ROUNDOFF														4
								210cy		240cy		110cy		100cy

EARTHWORK SUMMARY

FILL NEEDED:

PARALLEL FILL X 1.15 = 100cy X 1.15 = 115cy

MATERIAL AVAILABLE FOR FILL:

COMMON EXCAVATION X 1.0 = 210cy X 1.0 = 210cy

UNCLASSIFIED CHANNEL EXCAVATION X 1.40 = 380 X 1.40 = 532cy

STRUCTURE EXCAVATION X 1.60 = 320 X 1.60 = 512cy

TOTAL MATERIAL AVAILABLE FOR FILL 632cy

TOTAL FILL NEEDED 115cy

TOTAL MATERIAL AVAILABLE 632cy

WASTE 515cy

BRIDGE QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION
STRUCTURES DIVISION

NO.	ITEM	UNIT	QUANTITY BREAKDOWN										TOTAL	FINAL
			SUPER-STRUCTURE	ABUTMENT #1	ABUTMENT #2	ROADWAY	CHANNEL							
202.25	REMOVAL OF STRUCTURE	EA.				1							1	
203.15	COMMON EXCAVATION	CY				210							210	
203.27	UNCLASSIFIED CHANNEL EXCAVATION	CY					380						380	
* 203.30	EARTH BORROW	CY				50							50	
204.25	STRUCTURE EXCAVATION	CY		170	150								320	
204.30	GRANULAR BACKFILL FOR STRUCTURES	CY		130	150								280	
301.15	SUBBASE OF GRAVEL	CY				240							240	
401.10	GRAVEL SURFACE COURSE	CY				110							110	
501.25	CONCRETE, CLASS B	CY	43	69	76								188	
507.15	REINFORCING STEEL	LB	7160	6770	7490								21420	
514.10	WATER REPELLENT	GAL.	6	3	3								12	
613.12	STONE FILL, TYPE III	CY					320						320	
617.35	BRIDGE RAILING, HEAVY DUTY STEEL BEAM	LF	63										63	
621.38	GUARD RAIL, HEAVY DUTY STEEL BEAM WITH WOOD POSTS, TYPE II	LF	206										206	
635.10	MOBILIZATION	LS				1							1	

* 50 CY OF EARTH BORROW HAS BEEN INCLUDED IN THE QUANTITIES TO BE USED AS DIRECTED BY THE ENGINEER, IF REQUIRED.

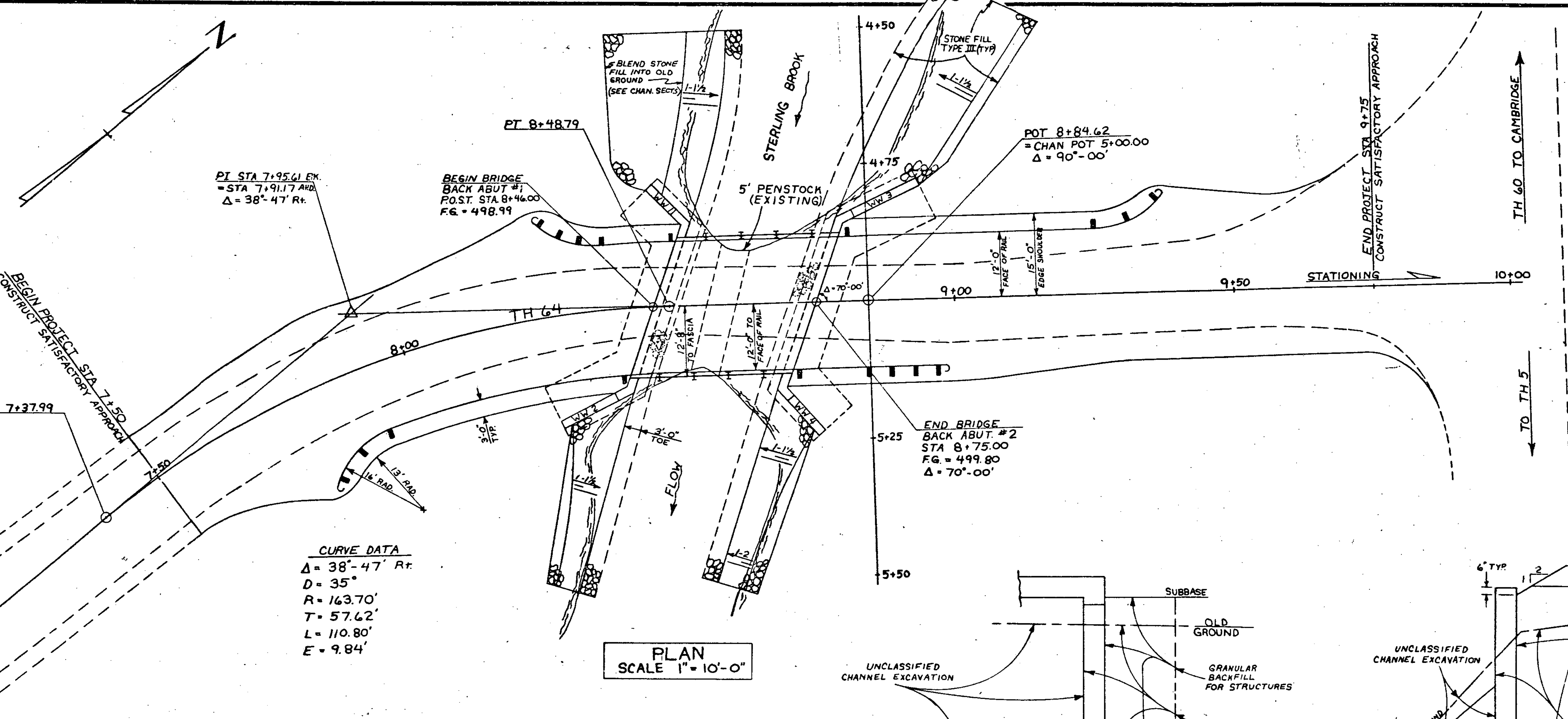
BRIDGE (S) AT STATION (S) STA. 8+46.00 - STA. 8+75.00
LOCATION (S) TH #64 OVER STERLING BROOK

Prepared by: M. RYAN
Checked by: G. ROGERS
SUPERVISOR: E. Y. BALKUM

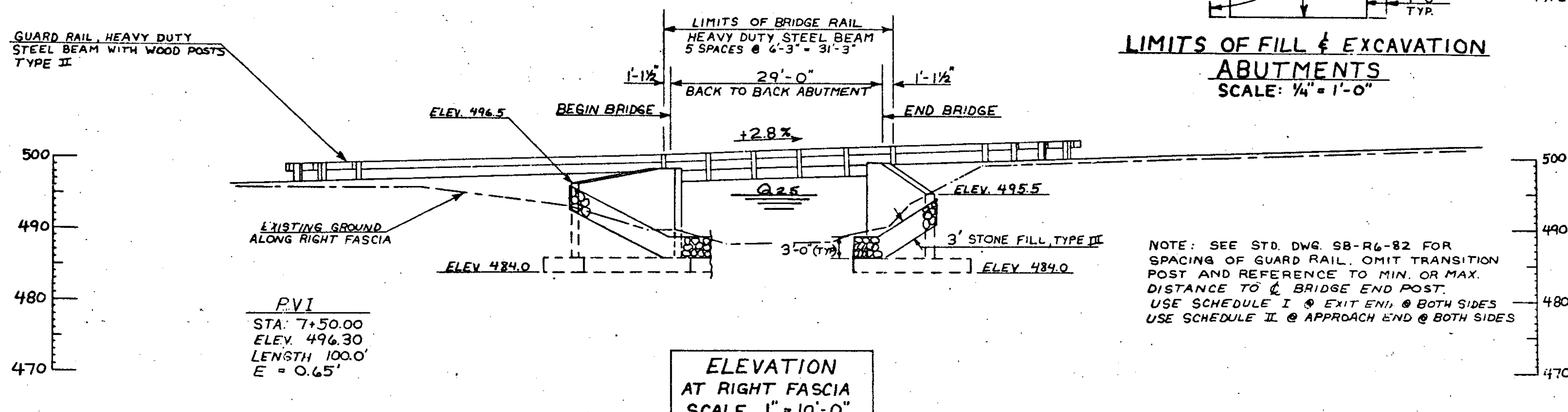
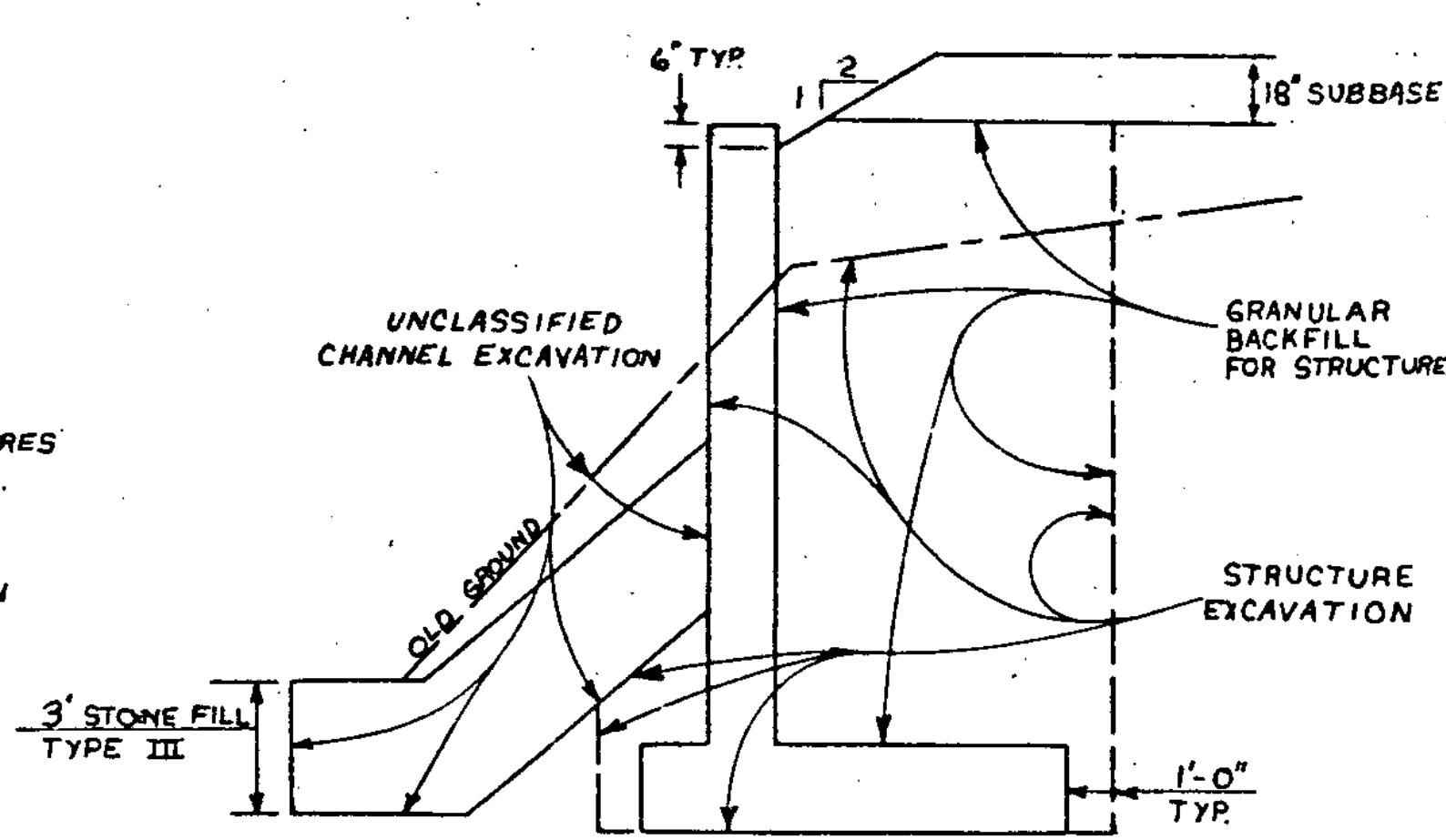
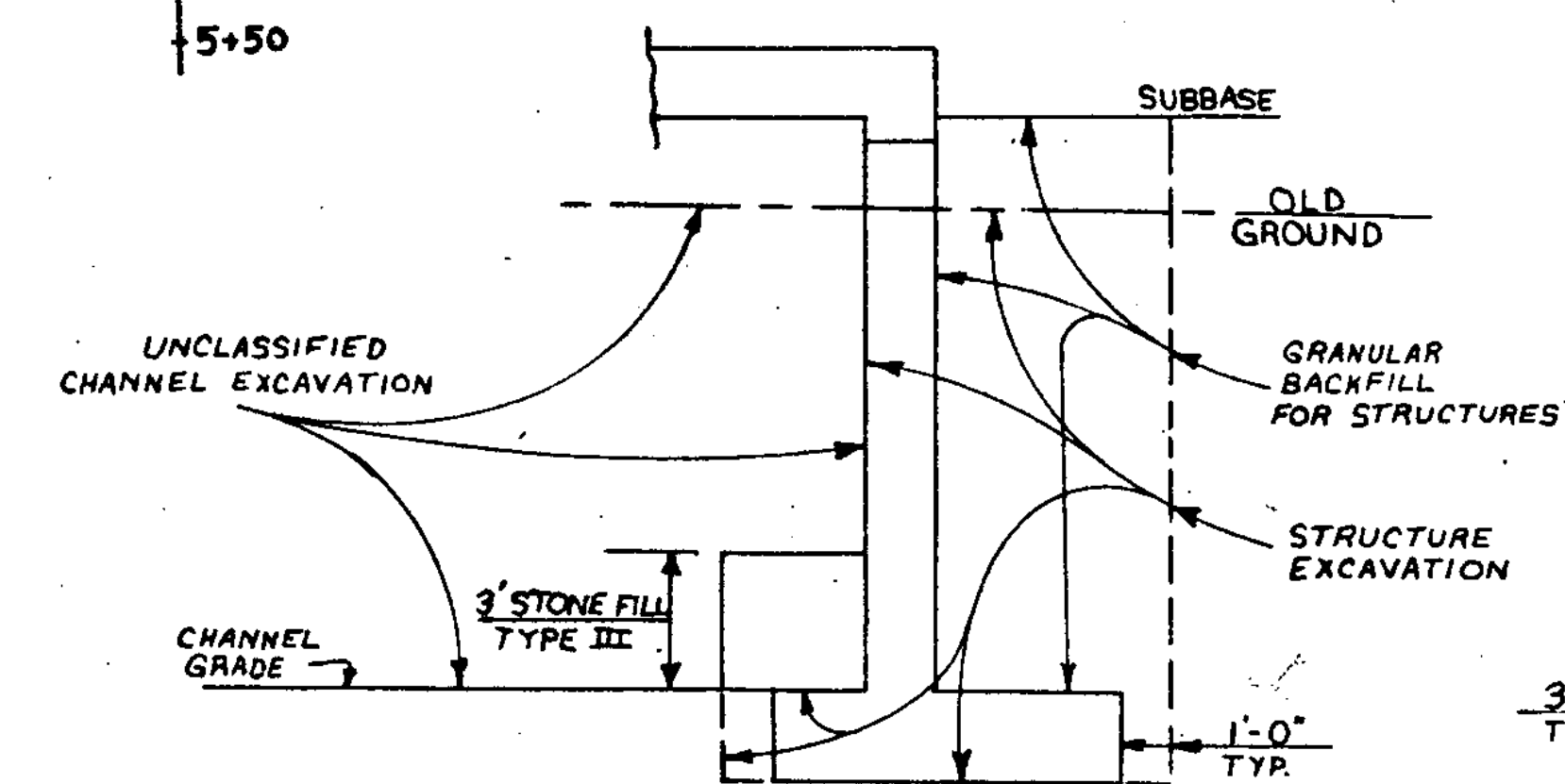
MORRISTOWN
BR OF

PROJECT NO. FTH 3531
SHEET NO. 3 OF 23

BR-6

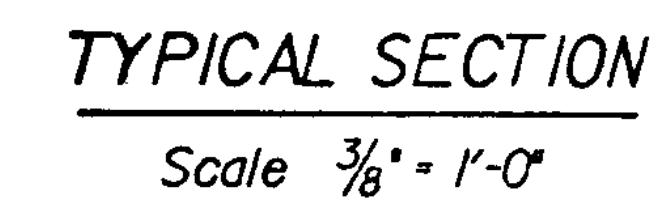
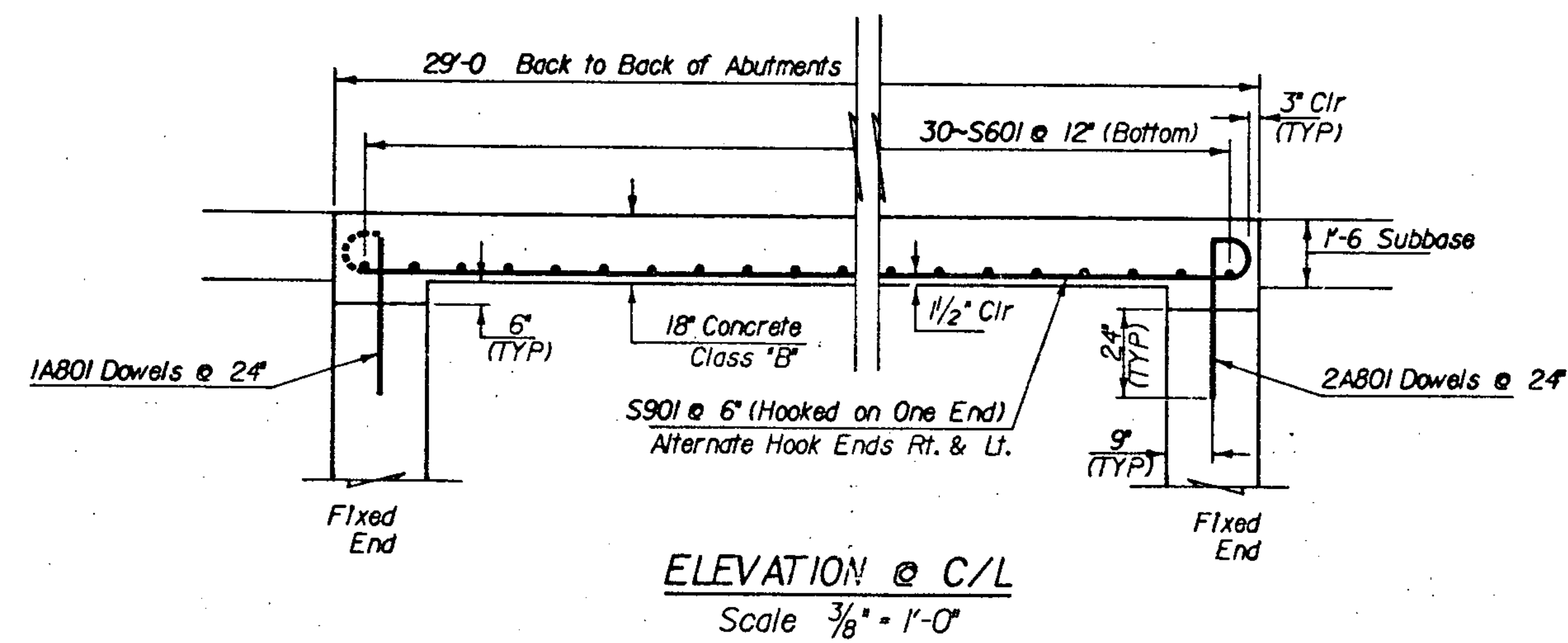


CURVE DATA
 $\Delta = 38^\circ-47' R.$
 $D = 35'$
 $R = 163.70'$
 $T = 57.62'$
 $L = 110.80'$
 $E = 9.84'$

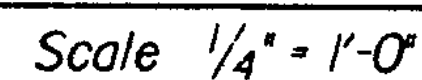


NOTE: SEE STD. DWG. SB-R6-82 FOR SPACING OF GUARD RAIL. OMIT TRANSITION POST AND REFERENCE TO MIN. OR MAX. DISTANCE TO BRIDGE END POST. USE SCHEDULE I @ EXIT END @ BOTH SIDES. USE SCHEDULE II @ APPROACH END @ BOTH SIDES.

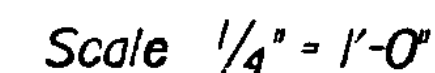
STATE OF VERMONT AGENCY OF TRANSPORTATION	
Town Of MORRISTOWN	Bridge No. 35
Highway No. TH 64	Log Sta. 8+60.50
TH #64 OVER STERLING BROOK	
PLAN & ELEVATION	
Designed By C.P. WILLIAMS	Drawn By C.P. WILLIAMS
Checked By G.S. ROGERS	Bridge Design Supervisor F.W. Bolcum
Date 9/84	Date 9/84
PROJECT MORRISTOWN	PROJECT NO. FTH 3531
I.G.C. Info.	
Bridge Sheet No.	Sheet 4 of 23



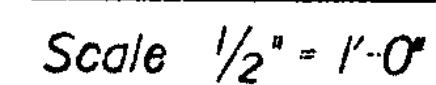
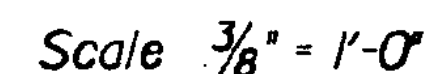
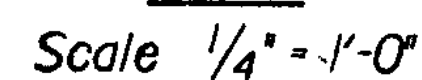
Town Of	MORRISTOWN	Bridge No.	35
		Log Sta.	
		Surv. Sta.	8 + 60.50
Highway No.	TH 64		
Town Highway No. 64 over Sterling Brook			
SLAB DETAIL SHEET			
Designed By	C.P. Williams	Drawn By	E. Blodgett
Checked By	Date	Bridge Design Supervisor	
D. W. Newton	8/84	F.W. Bolkomate 9/84	
PROJECT		PROJECT NO.	
MORRISTOWN		FTH 3531	
L.G.C. Info.			
Q54h(30.23)FTH3531SL.DGN			
Bridge Sheet No.		Sheet 5 of 23	



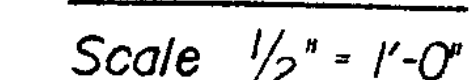
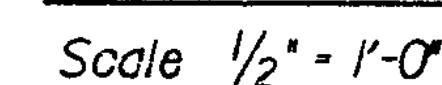
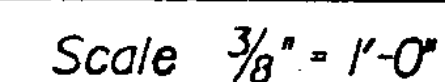
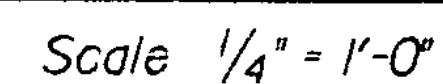
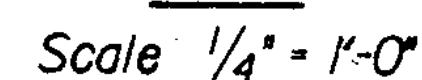
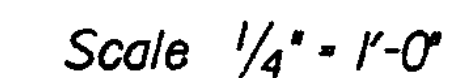
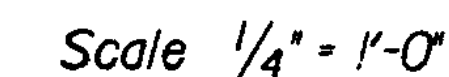
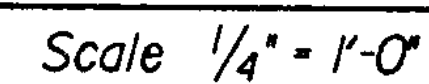
▲ Indicates Cut to Fit in Field



Scale $1/4" = 1'-0"$



LG.C. Info.	OSN: (30,23)FH353/AB.DGN
Bridge Sheet No.	Sheet 6 of 23

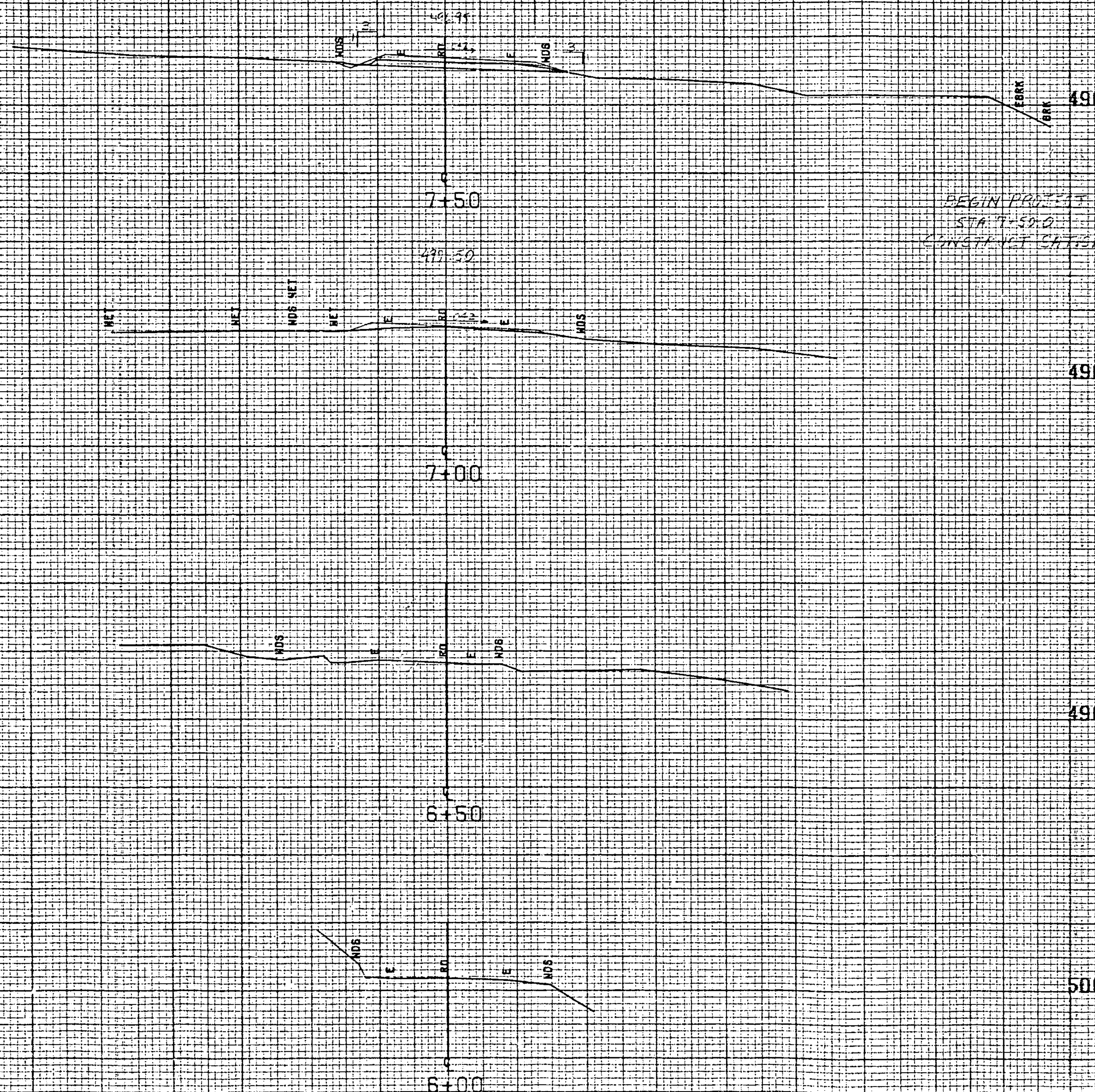


Bridge Sheet No.	Sheet 7 of 23
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ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O	ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O	ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O															
SUPERSTRUCTURE																		ABUTMENT #2																																																		
1																		81																161																																		
2																		82																	162																																	
3	10	5	28-6	S501	STR													83	33	5	3-9	2A501	STR													163																																
4																		84	12		33-2	2A502														164																																
5	30	6	26-5	S601	STR													85	5		14-5	2A503														165																																
6																		86	54		12-2	2A504														166																																
7	61	5	8-0	S502	S6	1-0	1-0	4-0	1-0									87	5		13-2	2A505														167																																
8																		88	26	5	32-6	2A506	STR														168																															
9	51	9	29-9	S901	1	1-3	28-4											89																		169																																
10																		90																		170																																
11																		91	31	6	7-0	2A601	STR														171																															
12																		92																		172																																
13																		93																		173																																
14																		94	14	8	3-9	2A801	STR														174																															
15	33	5	3-9	1A501	STR													95																		175																																
16	12		33-2	1A502														96																		176																																
17	5		12-4	1A503														97	31	5	3-1	2A507	17		1-0	1-1	1-0									177																																
18	54		11-5	1A504														98																		178																																
19	5		13-8	1A505														99																		179																																
20	24	5	32-6	1A506	STR													100	32	7	8-0	2A701	17		3-1	4-11										180																																
21																		101																																																		
22	31	6	7-0	1A601	STR													102																																																		
23																		103																																																		
24	12	8	3-9	1A801	STR													104																																																		
25																		105																																																		
26	31	5	3-1	1A507	17		1-0	1-1	1-0									106	16	5	3-9	3W501	STR																																													
27																		107	13		17-0	3W502																																														
28	31	7	8-0	1A701	17		3-1	4-11										108	16		14-5	3W503																																														

7+50 8+00 8+50 9+00 9+50 10+00

BANKING DIAGRAM



BEGIN PROJECT
STA 7+50.0
CONST. NOT SATISFACTORY APPROX.

END PROTECT
STA. 9+50
CONSTRUCT SATISFACTORY APPROACH

STA. 9+37 LT. END GUARD RAIL

STA. 8+81 LT. END BRIDGE RAILING
BEGIN GUARD RAIL

STATION 8+49 LT. END GUARD RAIL
BEGIN BRIDGE RAILING

STATION 8+27 LT. BEGIN GUARD RAIL

STA. 8+75
END BRIDGE

8+50
BEGIN BRIDGE
POST STA. 8+46.00

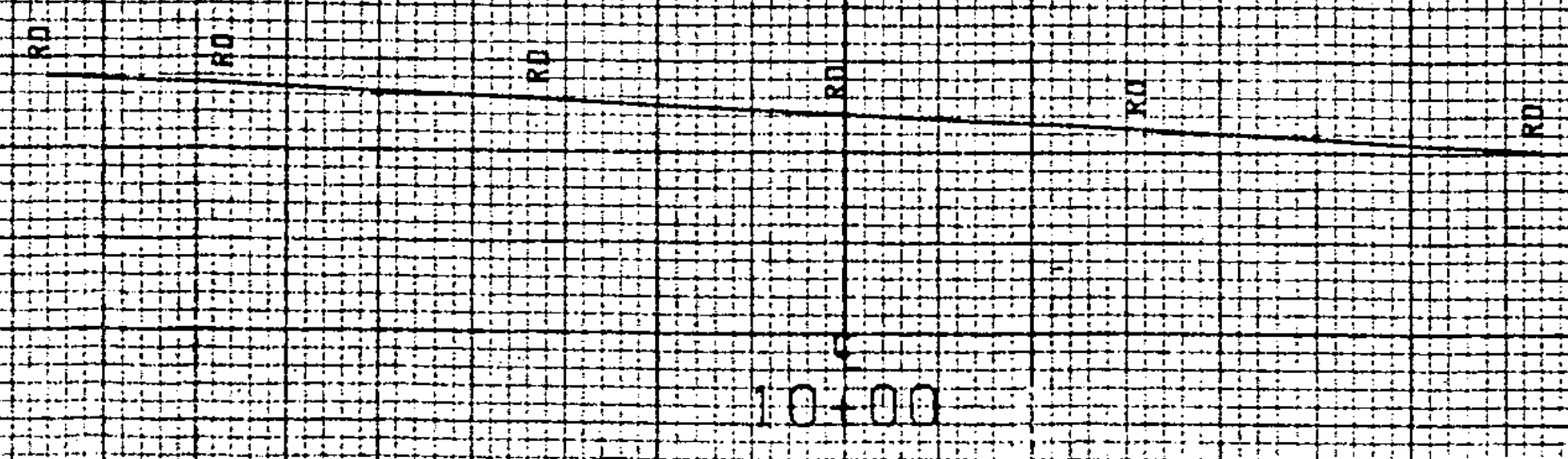
STA. 8+99 RT. END GUARD RAIL

STA. 8+72 RT. END BRIDGE RAILING
BEGIN GUARD RAIL

STA. 8+40 RT. END GUARD RAIL
BEGIN BRIDGE RAILING, HEAVY END STEEL BEAM

STA. 7+70 RT. BEGIN GUARD RAIL HEAVY END STEEL BEAM W/ WIND FENCE TIE II

FROM STA. 8+00 TO STA. 9+50
PROJECT NAME MORRISTOWN RAIN
NO. FTH3631 PLOTTED 07/20/84
SURVEYED BY FANTONI JULY 1984
SHEET 10 OF 25



500

FROM STA.	10+00	TO STA.	10+00
PROJECT NAME	MORRISTOWN MAIN		
NO.	FTH3531		
SURVEYED BY	FANTONI		
			PLOTTED 07/20/84

SECTION 4+75. RT. AND LT.
BEGIN STRUCTURE EXCAVATION

UNCLASSIFIED
CHANNEL EXCAVATION

UNCLASSIFIED
CHANNEL EXCAVATION

490

4+75

3' STONE FILL, TYPE III

UNCLASSIFIED
CHANNEL EXCAVATION

490

4+50

SECTION 4+50. RT.
BEGIN UNCLASSIFIED CHANNEL EXCAVATION
AND STONE FILL, TYPE III

SECTION 4+50. RT.
BEGIN UNCLASSIFIED CHANNEL EXCAVATION
AND STONE FILL, TYPE III

490

4+25

490

4+00

FROM STA. 4+00 TO STA. 4+75
PROJECT NAME MORRISTOWN CHAN.
NO. FH3531 PLOTTED 07/20/84
SURVEYED BY FANTONI
CUBBY 121 NO. 21

STATION 5+53 LEFT AND RIGHT
END UNCLASSIFIED CHANNEL EXCAVATION
AND STONE FILL TYPE III

STATION 5+25 LEFT AND RIGHT
END STRUCTURE EXCAVATION

5+75

5+50

5+25

5+00

490

490

490

490

STRUCTURE
EXCAVATION

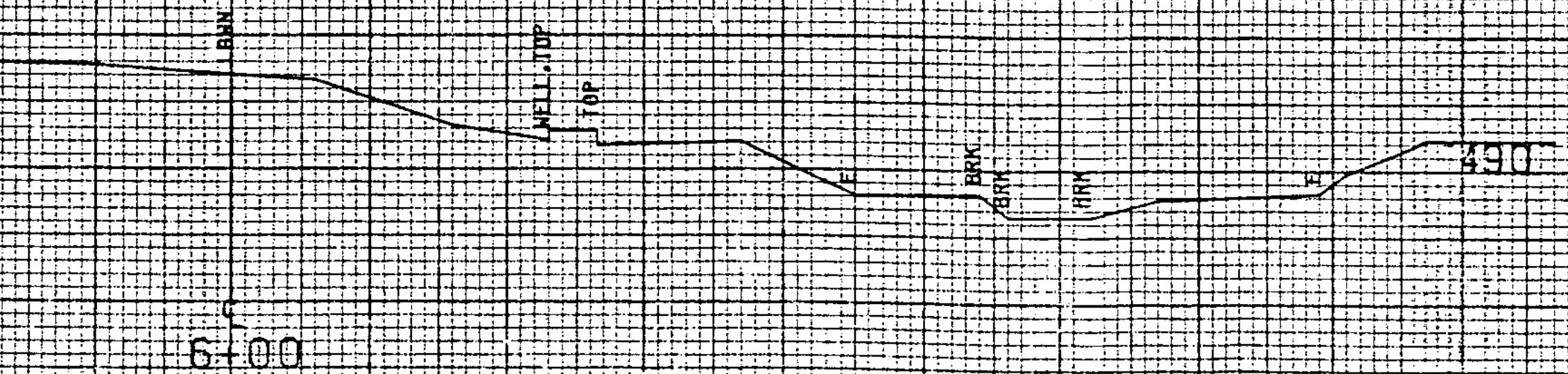
3' STONE FILL
TYPE III

EXISTING 8" PEN STOCK

STRUCTURE
EXCAVATION

UNCLASSIFIED CHANNEL EXCAVATION

FROM STA.	5+00	TO STA.	5+75
PROJECT NAME	MORRISTOWN	CHAN	
NO.	FM3631	PLOTTED	07/20/84
SURVEYED BY	FANTONI	JULY	1984



FROM STA. 6+00 TO STA. 6+00
PROJECT NAME MORRISTOWN CHAN
NO. FTH3531 PLOTTED 07/20/84
SURVEYED BY FANTONI JULY 1984
SHEET 11 OF 29 SHEETS

SCALE 10 FEET