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**GENERAL NOTES**

1. ALL ROADWAY AND CHANNEL CUT AND FILL AREAS SHALL BE SEEDED AND MULCHED TO PREVENT EROSION.
2. DURING CONSTRUCTION THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION TO PREVENT POLLUTION INCLUDING THE DISCHARGE OF RUN CONCRETE OR DEBRIS INTO THE MID RIVER AS DIRECTED BY VERMONT STANDARD SPECIFICATION SECTION 104.11
3. THE EXISTING SUPERSTRUCTURE SHALL BE REMOVED FROM THE PROJECT WHEN NO LONGER NEEDED AND WILL BECOME THE PROPERTY OF THE CONTRACTOR.
4. TOWN HIGHWAY 15 SHALL REMAIN OPEN TO TRAFFIC. THE EXISTING STRUCTURE AND APPROACHES SHALL BE MAINTAINED AS LONG AS DEEMED NECESSARY. PAYMENT SHALL BE MADE UNDER ITEM 637.10, MAINTENANCE OF TRAFFIC FOR BRIDGE PROJECTS.
5. TEN CUBIC YARDS ± OF STONE FILL TYPE II, ITEM 613.11 HAS BEEN INCLUDED IN THE PROJECT QUANTITIES TO BE USED TO DEVELOP FISHERIES HABITAT. REFER TO THE STREAM ALTERATION PERMIT.
6. IN STREAM CONSTRUCTION SHALL BE PERMITTED FROM JUNE 1 TO OCTOBER 1.
7. FOR ADDITIONAL NOTES REFER TO STD SMT SCB-D1-75, NOTES 1-16.
8. EXISTING SIGNS SHALL BE REMOVED AND EITHER RESET OR RETURNED TO THE TOWN, AS DIRECTED BY THE ENGINEER. ANY NEW SIGNS REQUIRED WILL BE THE RESPONSIBILITY OF THE TOWN.

**CONVENTIONAL SIGNS**

COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---X---
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	---
R.O.W TAKING LINE	---
SLOPE RIGHTS	SR
TOP OF CUT	△
TOE OF SLOPE	○

**DATUM**

VERTICAL	NGVD 1929
HORIZONTAL	N/A

**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**



**PROPOSED IMPROVEMENT  
BRIDGE PROJECT**

TOWN OF WAITSFIELD  
COUNTY OF WASHINGTON

ROUTE NO: TH 15 (CL3) BRIDGE NO: 25

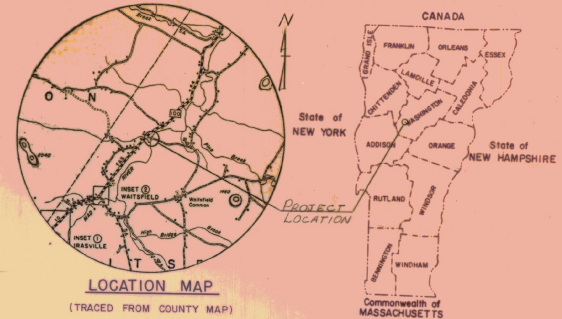
**PROJECT LOCATION:** This project begins approximately 980 feet southeasterly of the intersection of Vt 100, TH 15 and extends 900' northwesterly.

**PROJECT DESCRIPTION:** This project replaces the existing structure with a new rolled beam w/R.C. deck structure on a new northerly location w/approx. 850' of upgraded approach roadway and necessary channel work.

LENGTH OF STRUCTURE:	128.0 FEET
LENGTH OF PARTICIPATION ROADWAY:	772.0 FEET
LENGTH OF NON-PARTICIPATION ROADWAY:	FEET
LENGTH OF PROJECT:	900.0 FEET

**TRAFFIC DATA**

1982 AADT = 500
1982 DHV = 70
1992 AADT = 580
1992 DHV = 80
D = 36%
T = 6%
DESIGN SPEED = 30 MPH



**RECORD PLANS & MATERIAL SUPPLIERS**

CONTRACTOR - WINTERSSET, INC. R.O. BOX 968 LYNDONVILLE, VT. CONTRACT DATED - 9-14-82  
 CONSTRUCTION BEGAN - 9-15-82 CONSTRUCTION SUSPENDED - 11-19-82 CONSTRUCTION RESUMED - 3-14-83  
 CONSTRUCTION COMPLETED - 5-25-83 ACCEPTED - 6-1-83 RESIDENT ENGINEER - RODENICK FULLER  
 RECORD PLANS - GEORGE J. ABAIR GRANULAR BORROW - BACKFILL - BAR IN RIVER SPAULDING FARM,  
 TUCKER PIT WAITSFIELD, VT. SUBBASE OF GRAVEL - STOCKPILE TOWN OF WAITSFIELD (RIVER GRAVEL)  
 CONCRETE CLASS "A" 4" x 8" - A.G. ANDERSON CO., INC. BERLIN, VT. STEEL PILING - BETHELEHEM STEEL CORP.  
 SAUSON PA. REIN. STEEL - K-ROSS BUILDING SUPPLY CENTER, INC. LEBANON, NH. STRUCTURAL STEEL,  
 BEARING DEVICE ASSEMBLY & SHEAR CONNECTORS - VT. STRUCTURAL STEEL CORP. BURLINGTON, VT.  
 WATER REPELLENT - SONNENBORN BUILDING PRODUCTS MASPETH, NY. SHEET MEMBRANE WATERPROOFING -  
 POYSTON LAB., INC. PITTSBURG, PA. 18" ACCUM. - ARMO, INC. FENTON ST. FALMEN, MA. JOINT SEALER HOTPOURED -  
 W.R. MEADOWS OF PA., INC. YORK, PA. BRIDGE RAILING & GUARD RAIL - LATAYETTE & SHELDON INC. KELLOGG RD.  
 ESSEX Vt., VT. SEE'S FERTILIZER - OLD FOX CHEMICAL INC. LYNDONVILLE, VT.

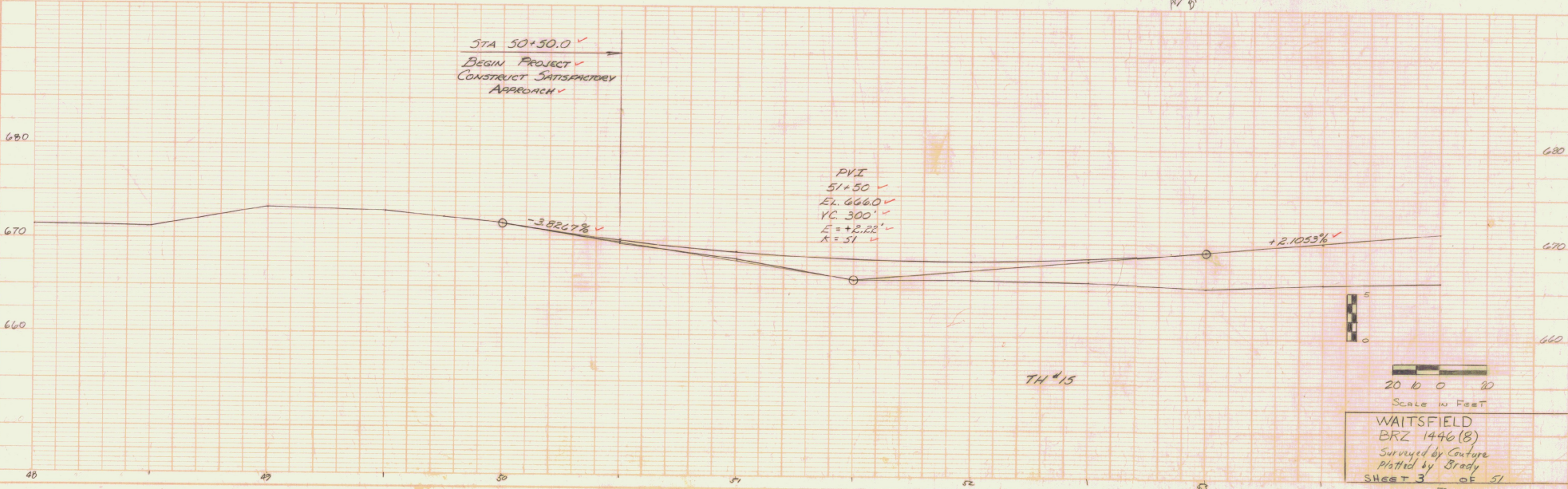
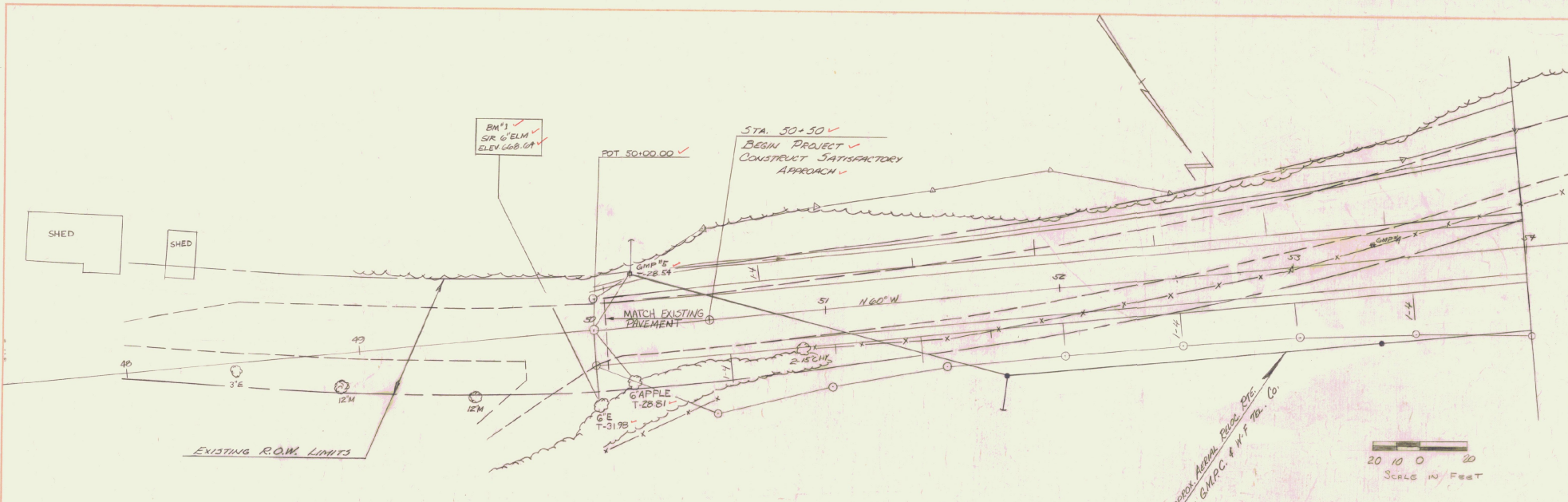
NOTE: ANY PORTING IMPROVEMENTS CONCERNING FINAL QUANTITIES, QUOTE OR OTHER DETAILS RELATIVE TO THE NUMBER MAY BE PERMITTED UNDER THE RULES WORK ON THE ESTIMATE FILE.

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: <i>S. J. [Signature]</i> DATE: 8-2-82	
DIRECTOR OF ENGINEERING AND CONSTRUCTION	
PROJECT WAITSFIELD	PROJECT NO. BRZ-1446(6)
SHEET 1 OF 37	SHEETS



PLAN  
 NORTH  
 SHEET NO. 3 OF 51  
 DATE 1954  
 BY C. W. BRADY



**BRIDGE RAILING - HEAVY DUTY  
STEEL BEAM W/ BOX BEAM HAND RAIL**

55+53.13 - 56+96.88 LT. ✓  
55+53.13 - 56+96.88 RT. ✓

NOTE: STONE FILL LIMITS  
BETWEEN CHANNEL STA  
3+00 - 3+50 ARE  
APPROXIMATE.

**WOOD GUIDE POSTS**

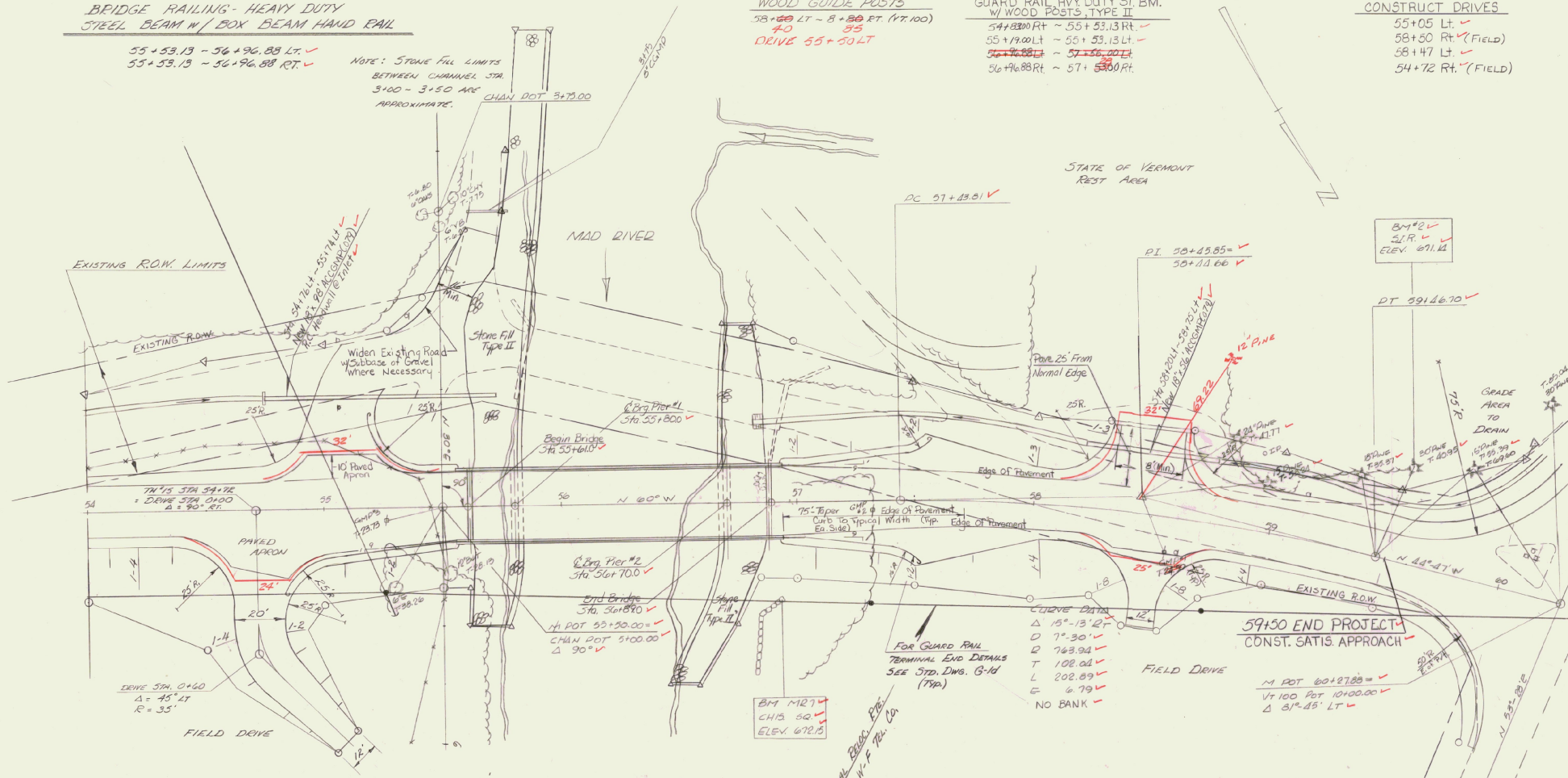
58+80 LT - 8+80 RT. (VT. 100)  
40 85  
DRIVE 55+50 LT

**GUARD RAIL, HVY DUTY ST. BM.  
W/ WOOD POSTS, TYPE II**

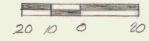
54+83.00 RT ~ 55+53.13 RT. ✓  
55+79.00 LT ~ 56+53.13 LT. ✓  
~~56+96.88 RT~~ ~ ~~57+56.00 LT~~ ✓  
56+96.88 RT ~ 57+53.00 RT. ✓

**CONSTRUCT DRIVES**

55+05 LT. ✓  
58+50 RT. (FIELD) ✓  
58+47 LT. ✓  
54+72 RT. (FIELD)



**PLAN**  
1" = 20'



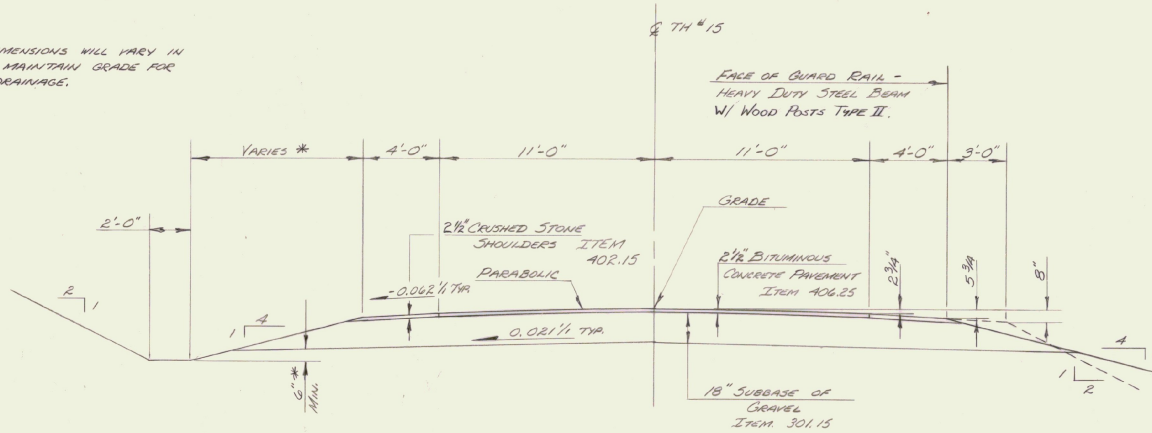
Amey's Aerial Photo. Pkg.  
By G.M.P.C. & W.F. P.L. Co.

**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

TOWN OF <b>WAITSFIELD</b>	Bridge No. <b>25</b>
HIGHWAY NO. <b>T.H. 15</b>	Log Sta. Surv. Sta. <b>56+25</b>
<b>PLAN</b>	
<b>T.H. 15 OVER THE MAD RIVER</b>	
Designed by <b>G. Spilak</b>	Drawn by <b>R. Whitcomb</b>
Checked by <b>P. RAMALHO</b> date	Bridge Design Supervisor <b>R.S. Haupt</b> date
PROJECT <b>WAITSFIELD</b>	PROJECT NO. <b>BRZ 1446 (B)</b>
Bridge Sheet No.	Sheet <b>4</b> of <b>57</b>



\* THESE DIMENSIONS WILL VARY IN ORDER TO MAINTAIN GRADE FOR PROPER DRAINAGE.



TYPICAL ROADWAY SECTION  
SCALE: 1" = 3'-0"  
BUILT AS DESIGNED

SEED, ITEM 651.10 TO BE APPLIED AS DIRECTED BY THE ENGINEER				
QTY	LBS/A	NAME	PURK. GERM.	
3.33	2	CROWN VETCH	97	1.75
30.00	30	CRISPING RED FESCUE	98	0.5
8.33	5	TIMOTHY	99	0.5
5.00	3	HIGHLAND BENT GRASS	92	0.5
16.67	10	PERENNIAL RYE GRASS (VAR PENNINE)	95	0.5
8.33	5	ALPHA (VAR. SARAKAC)	99	0.5
4.33	3	BIRDFOOT TREFOIL (EMPIRE)	98	0.5
10.0	50	LBS/ACRE		

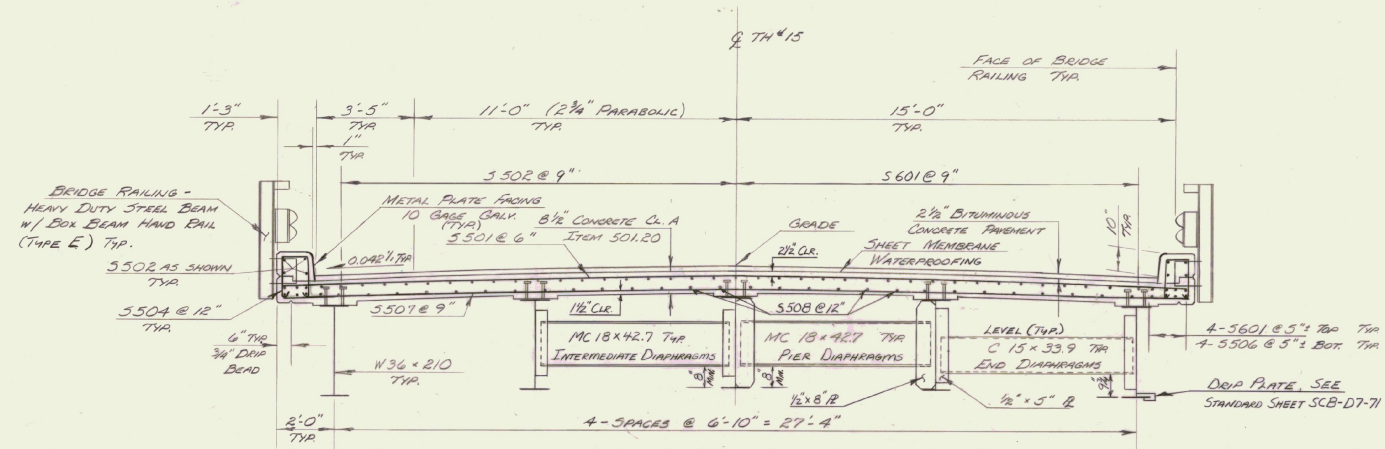
THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 046% BY WEIGHT AND SHALL BE FREE FROM ALL NOXIOUS WEED SEED

FERTILIZER, ITEM 651.15  
FORMULA 10-20-10 TO BE USED WITH SEED,  
ITEM 651.10 APPLIED AT THE RATE OF 500 LBS/ACRE

AGRICULTURAL LIMESTONE, ITEM 651.20  
TO BE APPLIED AT RATE OF 2 TONS/ACRE  
AS DIRECTED BY THE ENGINEER

HAY MULCH, ITEM 651.25  
TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE

- $2\frac{1}{2}$ " BITUMINOUS CONCRETE PAVEMENT ITEM 406.25 (1/2")
- 18" SUBBASE OF GRAVEL ITEM 301.15 (1/2")
- $2\frac{1}{2}$ " CRUSHED STONE SHOULDER ITEM 402.15 (1/2")
- 0-12" GRANULAR BORROW (IN FILL) ITEM 203.32 (1/2")
- 0-24" SAND BORROW (IN CUT) ITEM 203.31 (1/2")
- (TO BE USED IF DESIGNED NECESSARY BY THE ENGINEER)



REIN. STEEL SECTION @ MIDSPAN      REIN. STEEL SECTION @ PIER  
TYPICAL BRIDGE SECTION  
SCALE: 1" = 2'-0"

NOTE: SEE SHEET 14 FOR ADDITIONAL DIAPHRAGM DETAILS.

STATE OF VERMONT AGENCY OF TRANSPORTATION	
TOWN OF <b>WAITSFIELD</b>	Bridge No. <b>25</b>
HIGHWAY NO. <b>TH # 15</b>	Log Sta.
TOWN HIGHWAY # 15 OVER MAD RIVER	Surv. Sta. <b>36+25</b>
TYPICAL SECTIONS	
Designed by <b>G.V. SULLAK</b>	Drawn by <b>M. GARCIA</b>
Checked by <b>R. FAVALLO</b>	Bridge Design Supervisor
date <b>2/82</b>	<b>R.S. HAURT</b> date <b>3/82</b>
PROJECT <b>WAITSFIELD</b>	PROJECT NO. <b>BR2 1446(B)</b>
Bridge Sheet No.	Sheet <b>6</b> of <b>51</b>









STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
RIGHT-OF-WAY PLANS  
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
4	CREEDON, CARL L. & STEPHANIE D.	8	55+53LT. 55+70LT. 55+80LT.	56+30LT. 55+85LT.			CONST. EASE. (T) 0.03A± DRIVE (T) CHANNEL (P) 80S.F.±	WDOE		WAITSFIELD			1360S.F.±
5	GREEN MOUNTAIN POWER CORP.												UTILITY
6	WAITSFIELD-FAYSTON TELEPHONE CO., INC.												UTILITY

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

MADE BY: NBB DATE: 2-10-82  
CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

DR. RT. - DRAINAGE RIGHT  
DIT. RT. - DITCHING RIGHT  
CH. RT. - CHANNEL RIGHT  
DRIVE RT. - DRIVE RIGHT  
CUL. RT. - CULVERT RIGHT  
⊙ - DEMOLITION OR REMOVAL  
W - WATER SOURCES

----- PRESENT R.O.W.  
/// - - - - - TAKING WITHOUT ACCESS  
/// P L - - - - - TAKING WITHOUT ACCESS ALONG PROPERTY LINES  
----- TAKING WITH ACCESS  
----- (P) PERMANENT EASEMENT  
----- (T) TEMPORARY EASEMENT

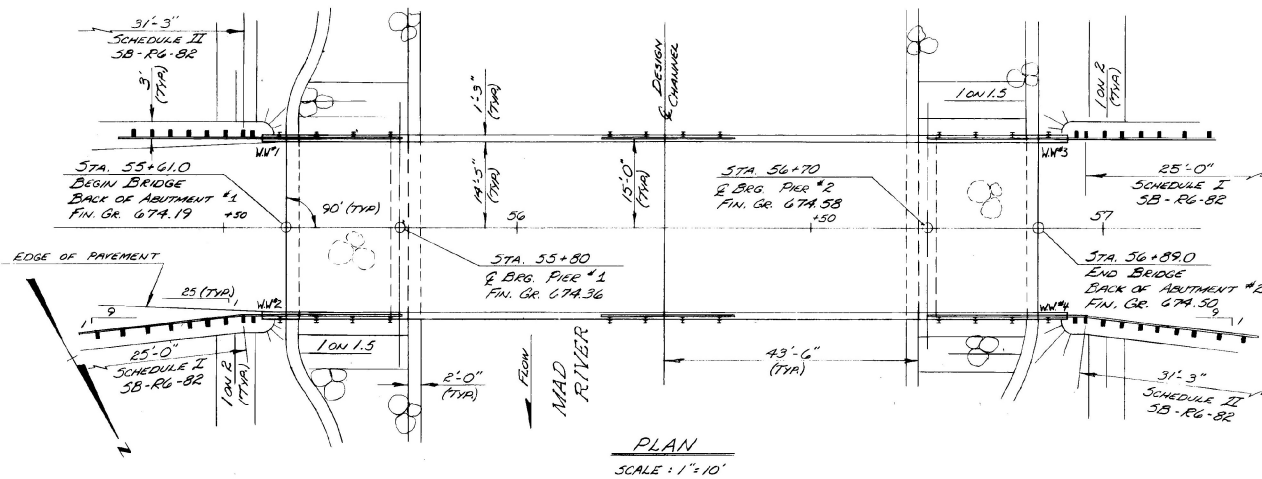
LEGEND  
----- CONST. EASE. ----- CONST. EASEMENT  
SR ----- SR ----- SLOPE RIGHTS  
P ----- P ----- PROPERTY LINE  
Δ ----- Δ ----- TOP OF CUT  
○ ----- ○ ----- TOP OF SLOPE

APPROVED Thomas V. Mayr DATE 2-15-82  
CHIEF OF PLANS & TITLES

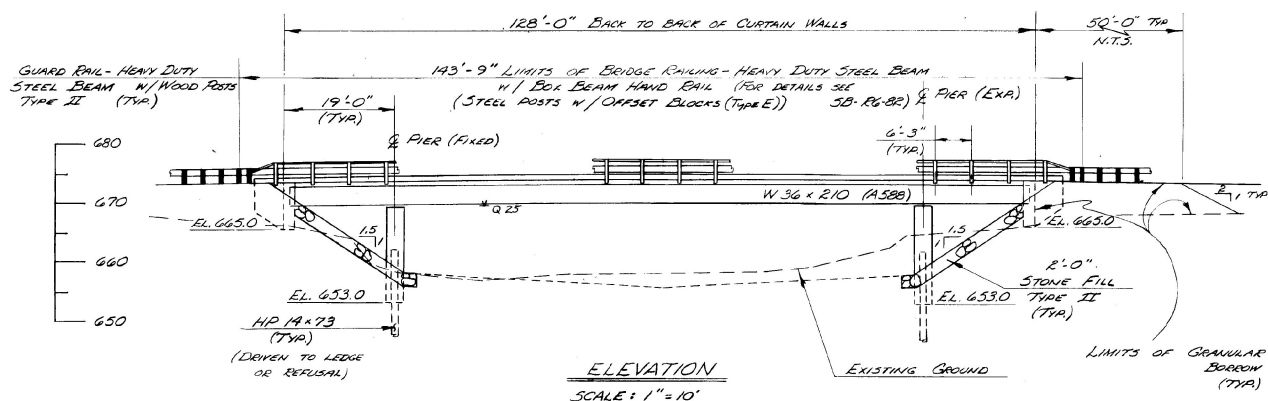
PROJECT WAITSFIELD  
NO. BRZ 1446(8)  
SHEET 11 OF 51

NEW HIGHWAY SECTION — BRIDGE APPROACHES

BRIDGE TYPICAL SECTION



PLAN  
SCALE: 1" = 10'



ELEVATION  
SCALE: 1" = 10'

EXISTING STRUCTURE

- STRUCTURE TYPE: STEEL TRUSS OVERALL LENGTH: 114' INVENTORY RATING: H-10
- SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS: 128'
- CLEAR SPAN LENGTH(S) NORMAL TO STREAM: 128'
- WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM): 128' x 21' VERTICAL CLEARANCE ABOVE STREAMBED: 18.0'
- WATER SURFACE ELEVATION @ Q 2.33: 668.0 WATER SURFACE ELEVATION @ Q 25: 668.3
- WATER SURFACE ELEVATION AT FLOOD OF RECORD (ESTIMATED YEAR 1987): ESTIMATED DISCHARGE: 2,300 CFS
- DOES ALL WATER PASS THROUGH EXISTING STRUCTURE? NO IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR? ON 128.0
- ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF: UNLIMITED
- TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL: GRANULAR
- DISPOSITION OF STRUCTURE TO BE DESTROYED AND BECOME PROPERTY OF THE CONTRACTOR

NEW STRUCTURE

- STRUCTURE GEOMETRY:
- STRUCTURE TYPE: 3-SPAN CONTINUOUS CHAIRLOVE (25'-90'-128') OVERALL LENGTH: 128'
  - SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS: 25' (TWO SPANS) & 78' (TWO SPANS)
  - VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER: 12'
  - CLEAR SPAN LENGTH(S) NORMAL TO STREAM: 128'
  - WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM): 128' x 21'
  - ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES? NO

HYDRAULIC DATA:

Q 2.33	2500 CFS	WATER ELEVATION	668.7	VELOCITY	4.4 FPS
Q 10	4000 CFS	WATER ELEVATION	668.5	VELOCITY	6.1 FPS
Q 25	6000 CFS	WATER ELEVATION	668.9	VELOCITY	9.0 FPS
Q 50	8000 CFS	WATER ELEVATION	669.0	VELOCITY	12.6 FPS
Q 100	11000 CFS	WATER ELEVATION	669.0	VELOCITY	16.6 FPS

- ARE THERE OBSTRUCTIONS TO A PIER IN THE STREAM? NO
- DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? NO IS ORDINARY RISE RAPID? NO
- NATURE OF NATURAL STREAMBED: GRAVEL AND SMALL Boulders
- ESTIMATED SCOUR DEPTH: 1'-2' COMMENT ON DIRT: HEAVY
- WILL ALL WATER PASS THROUGH NEW STRUCTURE? NO IF NOT, WHAT FREQUENCY AND ELEVATION WILL RELIEF OCCUR? ON 650.0
- ADDITIONAL WATERWAY AREA PROVIDED BY RELIEF: UNLIMITED
- VERTICAL CLEARANCE ABOVE Q 2.33: 12'
- ALLOWABLE WATER SURFACE ELEVATION: 670.0 LIMITED BY BOTTOM OF BEAMS
- IS DESIGN STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? NO IF YES, DESCRIBE
- AVERAGE DAILY LOW FLOW DEPTH: 1.5' AVERAGE DAILY HIGH FLOW DEPTH: 2.5'
- STREAMBANK OR CHANNEL PROTECTION REQUIRED: STONE TYPE II
- DISTANCE TO EXISTING UPSTREAM STRUCTURE: 170' SPAN 25' WATERWAY AREA OF FULL OPENING: 128' x 21'
- DISTANCE TO EXISTING DOWNSTREAM STRUCTURE: 230' SPAN 78' WATERWAY AREA OF FULL OPENING: 128' x 21'

ALLOWABLE STRESSES:

- DESIGN LIVE LOAD AASHTO: H15-R20 ON LEDGE
- ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL: 50 TONS TYPE HP 14x73 ESTIMATED LENGTH: 128'
- ALLOWABLE STRESS FOR STRUCTURAL STEEL ASHTO A 36: 22,000 PSI TENSION
- ALLOWABLE STRESS FOR REINFORCING STEEL ASHTO A 36: 20,000 PSI COMPRESSION
- ALLOWABLE STRESS FOR CONCRETE CLASS A 1: 3,500 PSI CLASS B 1: 3,000 PSI

- TRAFFIC MAINTENANCE:
- IS TRAFFIC TO BE MAINTAINED? YES IF YES, ON EXISTING STRUCTURE YES OR ON TEMPORARY BRIDGE
  - TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY TRAFFIC CONTROL SIGNALS REQUIRED MINIMUM CLEAR SPAN MINIMUM CLEAR HEIGHT ARE SIDEWALKS REQUIRED? IF SO, ON WHAT SIDE MINIMUM WATERWAY AREA

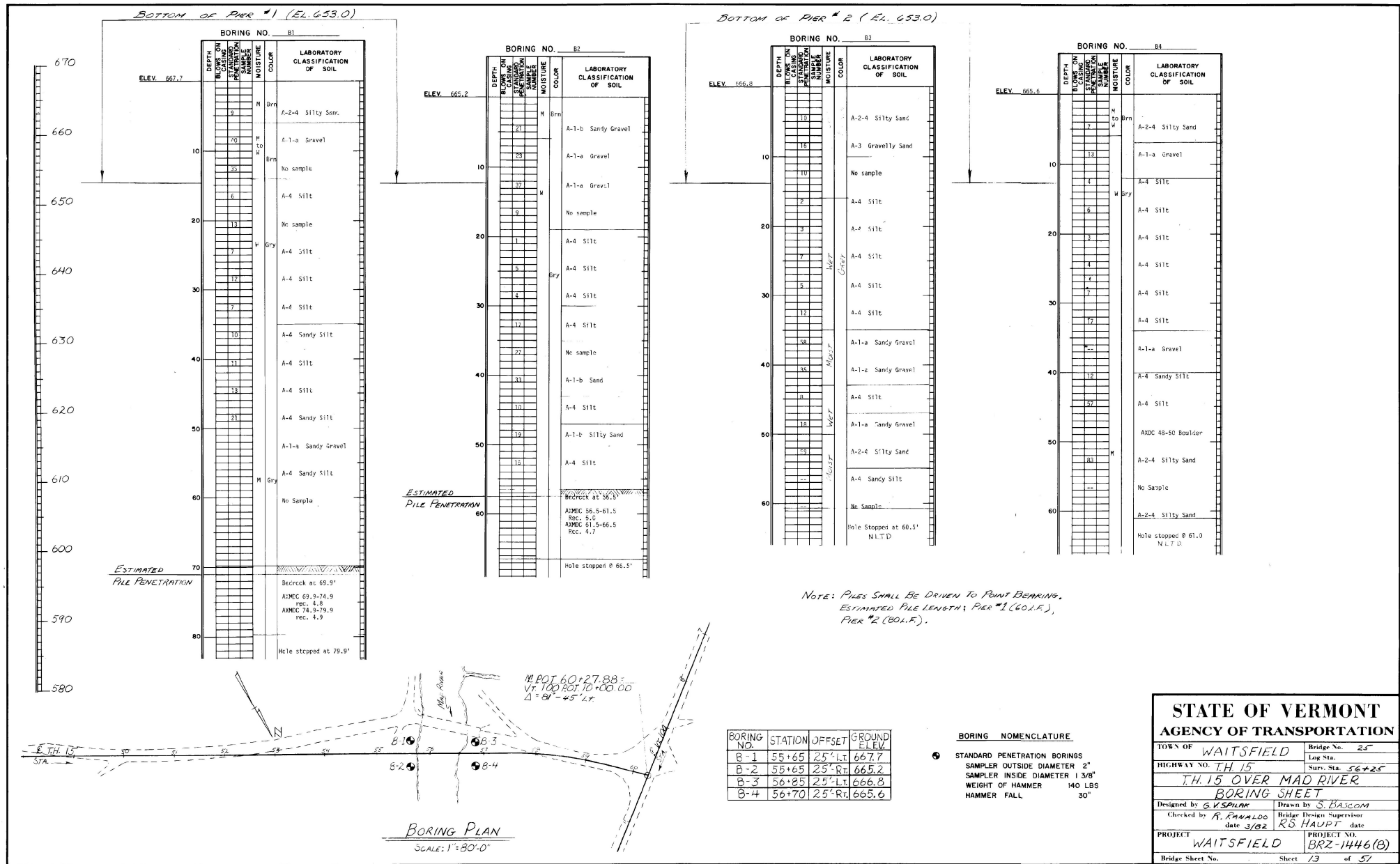
ADDITIONAL DESIGN CONSIDERATIONS

STRESS LEVELS	LOAD RATING (TONS)						
	H	H8	30	4	5A	5A	5A
INVENTORY	36	41					
POSTED	53		72	56	57	66	
OPERATING			86	102			

RECOMMENDED FOR APPROVAL: 7/1/81 DATE: 11/4/81  
 STRUCTURAL ENGINEER  
 RECOMMENDED FOR APPROVAL: [Signature] DATE: 11/3/81  
 DATE OF DESIGN: NOV 3 1981  
 APPROVED BY: [Signature] DIRECTOR OF ENGINEERING & CONSTRUCTION

STATE OF VERMONT  
AGENCY OF TRANSPORTATION

TOWN OF: WAITSFIELD Bridge No. 25  
 HIGHWAY NO. T.H. # 15 Log. Sta. 56+25  
 TOWN ENGINEER: [Signature] SURVEYOR: [Signature]  
 PROJECT: WAITSFIELD BRZ 1446(B)  
 Bridge Sheet No. 12 of 57



BOTTOM OF PIER #1 (EL. 653.0)

BOTTOM OF PIER #2 (EL. 653.0)

**BORING NO. B1**

DEPTH BELOW CASING (FEET)	DEPTH BELOW GROUND SURFACE (FEET)	LABORATORY SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
3	667.7			M Brn	A-2-4 Silty Sand
10		20		M to M	A-1-a Gravel
15				Ern	No sample
20		6			A-4 Silt
25		13			No sample
30		7		Gry	A-4 Silt
35		12			A-4 Silt
40		7			A-4 Silt
45		10			A-4 Silty Silt
50		11			A-4 Silt
55		13			A-4 Silt
60		21			A-4 Silty Silt
65				M Gry	A-4 Silty Silt
70					No Sample
75					Beccrock at 69.9'
80					AZMDC 69.3-74.9 rec. 4.8 AZMDC 74.3-79.9 rec. 4.9 Hole stopped at 79.9'

**BORING NO. B2**

DEPTH BELOW CASING (FEET)	DEPTH BELOW GROUND SURFACE (FEET)	LABORATORY SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
21	665.2			M Ern	A-1-b Silty Gravel
23					A-1-a Gravel
27				M	A-1-a Gravel
32		9			No sample
40		1			A-4 Silt
45		5			A-4 Silt
50		4		Gry	A-4 Silt
55		12			A-4 Silt
60		22			No sample
65		33			A-1-b Sand
70		30			A-4 Silt
75		32			A-1-b Silty Sand
80		11			A-4 Silt
85					Beccrock at 56.5'
90					AZMDC 56.5-61.5 rec. 5.0 AZMDC 61.5-66.5 rec. 4.7 Hole stopped @ 65.5'

**BORING NO. B3**

DEPTH BELOW CASING (FEET)	DEPTH BELOW GROUND SURFACE (FEET)	LABORATORY SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
13	666.8				A-2-4 Silty Sand
15					A-3 Gravelly Sand
20					No sample
25		2			A-4 Silt
30		3			A-4 Silt
35		7			A-4 Silt
40		5			A-4 Silt
45		12			A-4 Silt
50		38			A-1-a Silty Gravel
55		30			A-1-c Silty Gravel
60		8			A-4 Silt
65		10			A-1-a Silty Gravel
70		53			A-2-4 Silty Sand
75					A-4 Silty Silt
80					No Sample
85					Hole stopped at 60.5' N.L.T.D.

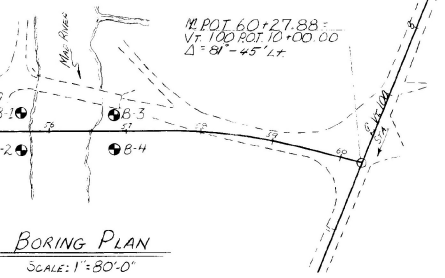
**BORING NO. B4**

DEPTH BELOW CASING (FEET)	DEPTH BELOW GROUND SURFACE (FEET)	LABORATORY SAMPLE NUMBER	MOISTURE	COLOR	LABORATORY CLASSIFICATION OF SOIL
7	665.8			M to Brn	A-2-4 Silty Sand
12					A-1-a Gravel
15					A-4 Silt
20		6		W Dry	A-4 Silt
25		3			A-4 Silt
30		4			A-4 Silt
35		7			A-4 Silt
40		12			A-4 Silt
45		57			A-4 Silty Silt
50					AZDC 48-50 Boulder
55					A-2-4 Silty Sand
60					No Sample
65					A-2-4 Silty Sand
70					Hole stopped @ 61.0' N.L.T.D.

ESTIMATED PILE PENETRATION

ESTIMATED PILE PENETRATION

NOTE: PILES SHALL BE DRIVEN TO POINT BEARINGS. ESTIMATED PILE LENGTH; PIER #1 (G.O.L.F.), PIER #2 (B.O.L.F.).



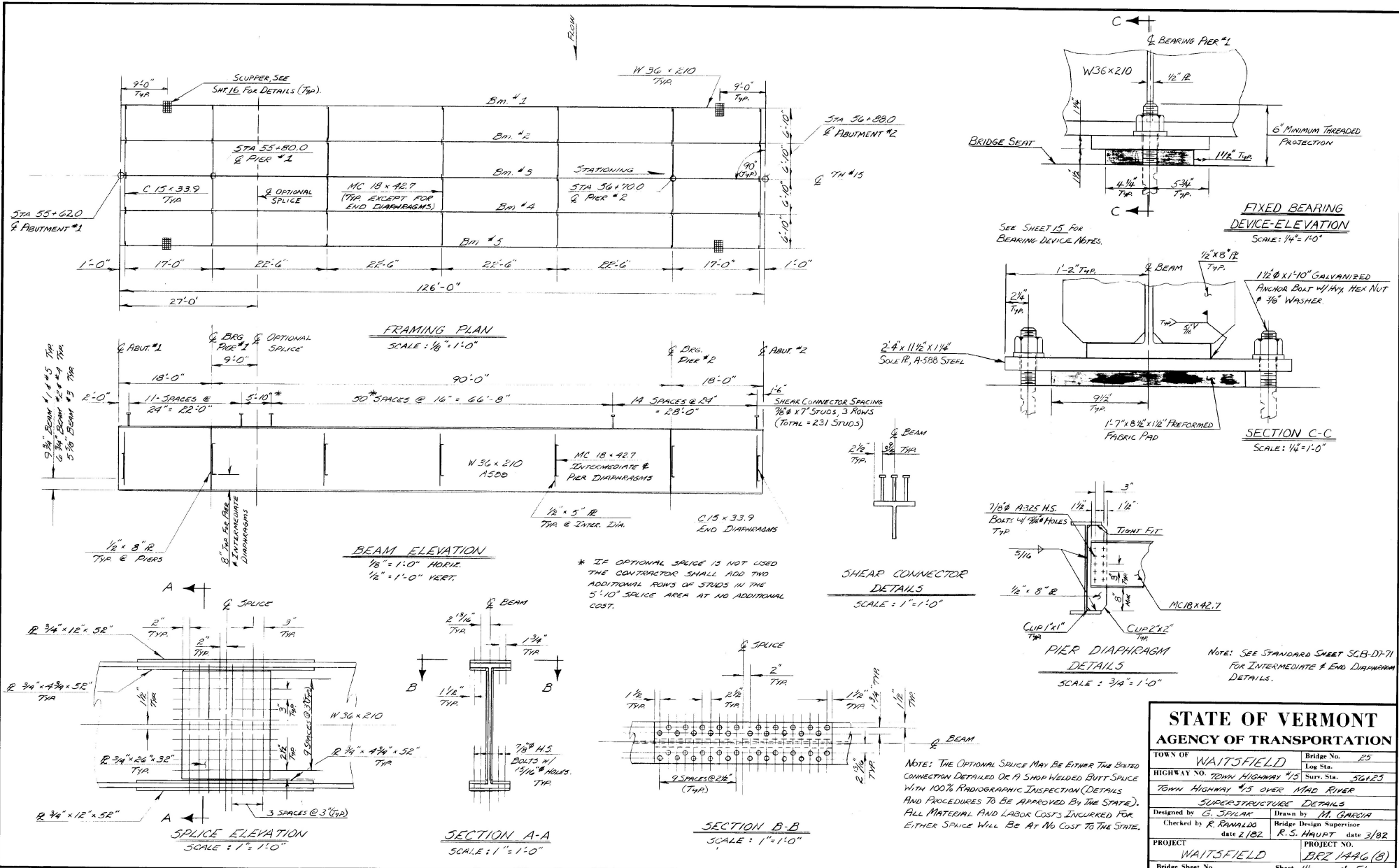
BORING NO.	STATION	OFFSET	GROUND ELEV.
B-1	55+65	25' LT	667.7
B-2	55+65	25' RT	665.2
B-3	56+25	25' LT	666.8
B-4	56+70	25' RT	665.6

**BORING NOMENCLATURE**

STANDARD PENETRATION BORINGS  
 SAMPLER OUTSIDE DIAMETER 2"  
 SAMPLER INSIDE DIAMETER 1 3/8"  
 WEIGHT OF HAMMER 140 LBS  
 HAMMER FALL 30"

**STATE OF VERMONT**  
**AGENCY OF TRANSPORTATION**

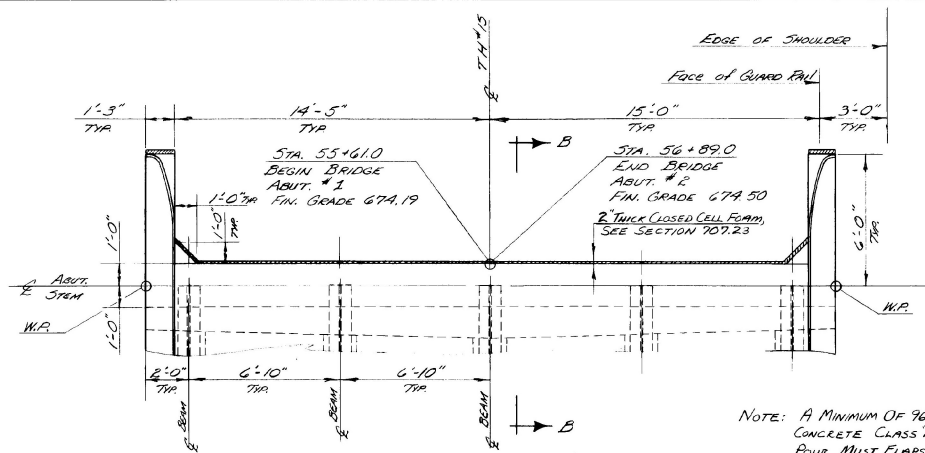
TOWN OF <b>WAITSFIELD</b>	Bridge No. <b>25</b>
HIGHWAY NO. <b>TH 15</b>	Log Sta. <b>56+25</b>
<b>TH. 15 OVER MAD RIVER</b>	
<b>BORING SHEET</b>	
Designed by <b>G.V. SOLAK</b>	Drawn by <b>S. BAJCOM</b>
Checked by <b>R. FAVALDO</b>	Bridge Design Supervisor
date <b>3/02</b>	<b>RS. HAUPT</b> date
PROJECT <b>WAITSFIELD</b>	PROJECT NO. <b>BRZ-14446(B)</b>
Bridge Sheet No.	Sheet <b>13</b> of <b>51</b>



STATE OF VERMONT	
AGENCY OF TRANSPORTATION	
TOWN OF <b>WAITSFIELD</b>	Bridge No. <b>25</b>
HIGHWAY NO. <b>TOWN HIGHWAY #3</b>	Log Sta. <b>56425</b>
TOWN HIGHWAY #3 OVER MAD RIVER	
SUPERSTRUCTURE DETAILS	
Designed by <b>G. SPILAK</b>	Drawn by <b>M. GAECIA</b>
Checked by <b>R. RAWLINS</b>	Bridge Design Supervisor
date <b>2/82</b>	R.S. MAURT date <b>3/82</b>
PROJECT <b>WAITSFIELD</b>	PROJECT NO. <b>BRZ 1446 (B)</b>
Bridge Sheet No.	Sheet <b>14</b> of <b>57</b>

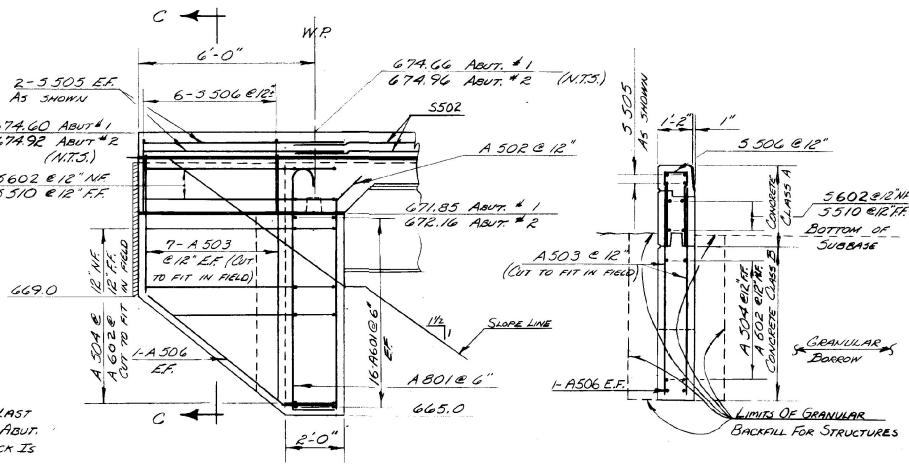




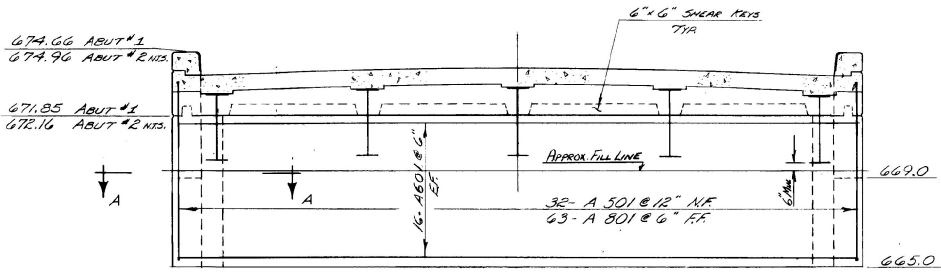


PLAN  
SCALE: 3/8" = 1'-0"

NOTE: A MINIMUM OF 96 HOURS FROM LAST CONCRETE CLASS B PORTION OF ABUT. POUR MUST ELAPSE BEFORE DECK IS POURED



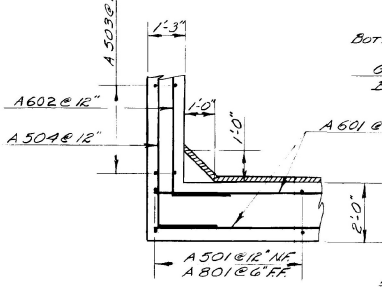
SECTION C-C  
SCALE: 1/2" = 1'-0"



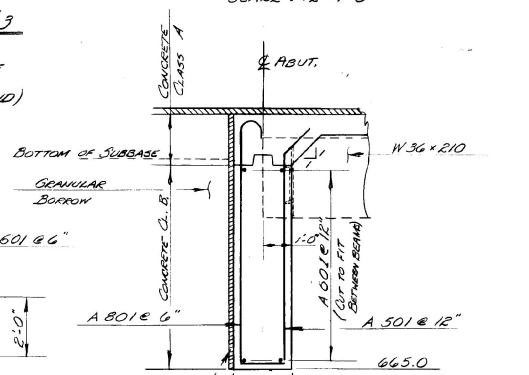
ELEVATION  
SCALE: 3/8" = 1'-0"

WINGWALLS #2 & #3  
SCALE: 1/2" = 1'-0"

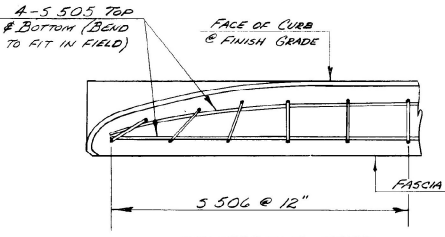
(WINGWALLS #2 & #4 ARE RESPECTIVELY THE SAME EXCEPT OPPOSITE HAND)



SECTION A-A  
SCALE: 1/2" = 1'-0"



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

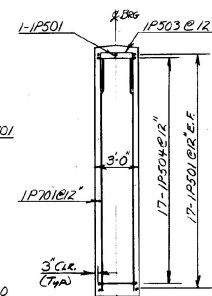
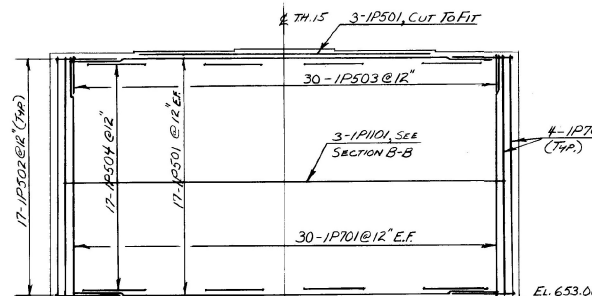
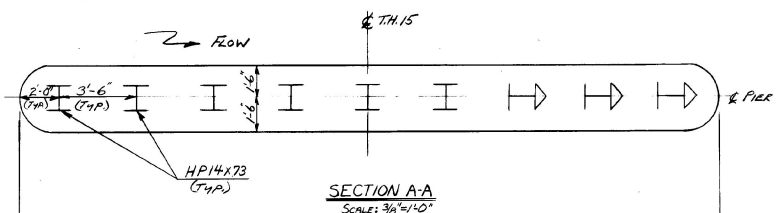


REINFORCING STEEL @ CURB END  
SCALE: 1" = 1'-0"

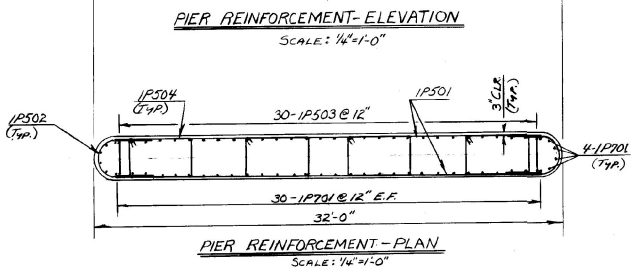
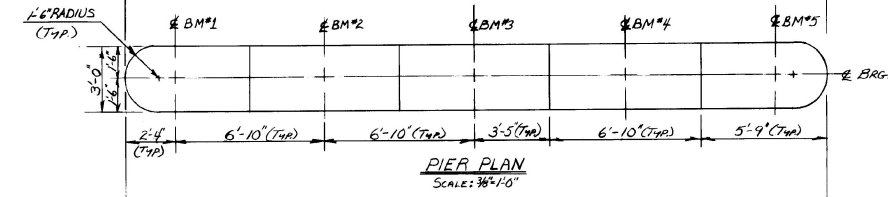
NOTE: FOR DETAILS OF CURB END FLAIR SEE SB-RG-82

N.F. = NEAR FACE  
F.F. = FAR FACE  
E.F. = EACH FACE

STATE OF VERMONT AGENCY OF TRANSPORTATION	
TOWN OF <b>WAITSFIELD</b>	Bridge No. <b>25</b>
HIGHWAY NO. <b>TOWN HIGHWAY #15</b>	Log Sta. <b>56+25</b>
TOWN HIGHWAY #15 OVER MAD RIVER	
ABUTMENT DETAILS	
Designed by <b>C. SVALAK</b>	Drawn by <b>M. GARCIA</b>
Checked by <b>R. RAMALDO</b>	Bridge Design Supervisor
date <b>2/02</b>	R.S. MAUPT date <b>3/02</b>
PROJECT <b>WAITSFIELD</b>	PROJECT NO. <b>BRZ 1446 (8)</b>
Bridge Sheet No.	Sheet <b>17</b> of <b>51</b>

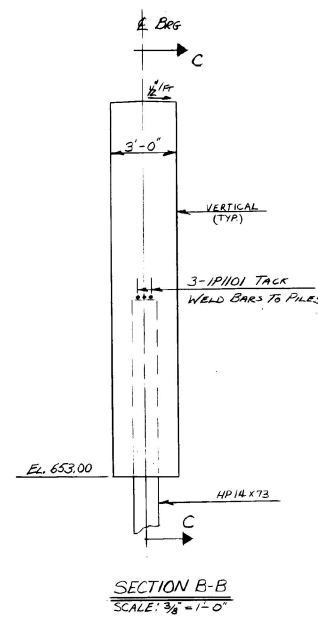
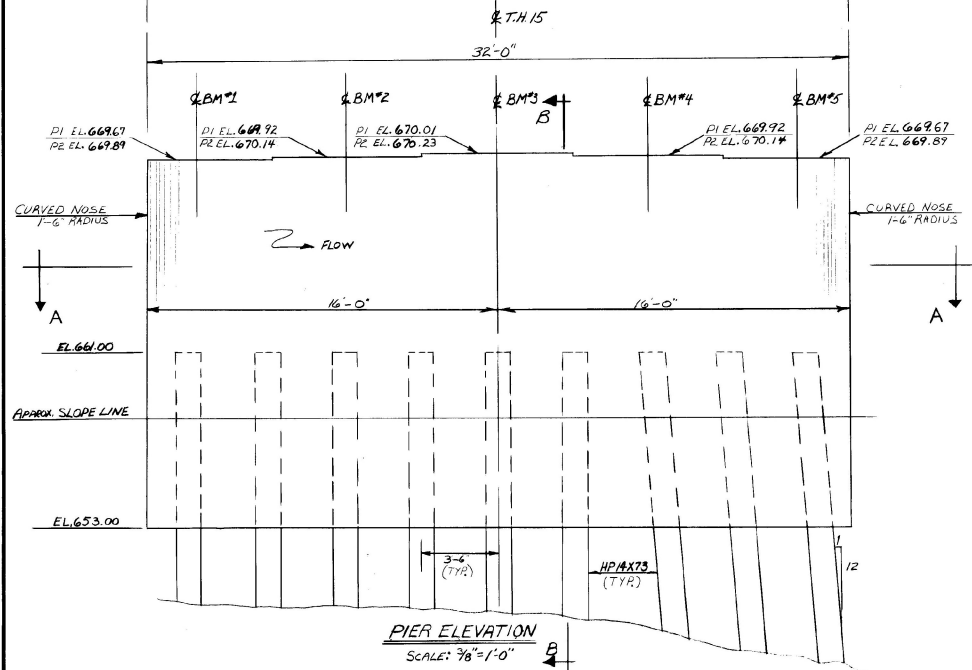


NOTE:  
E.F. = EACH FACE  
3" CLEARANCE ALL FACES



PIER REINFORCEMENT TYPICAL SECTION  
SCALE: 1/4"=1'-0"

- NOTES
1. ALL CONCRETE SHALL BE CONCRETE CLASS B.
  2. TOP OF PIERS SHALL BE SLOPED 1/2" FT EACH WAY FROM & BEARING EXCEPT IN BEARING AREAS WHERE THEY WILL BE LEVEL.
  3. PILE ALIGNMENT SHALL NOT VARY BY MORE THAN 1/2" FROM DESIGN LINE.
  4. AT ELEVATION 661.00 ALL PILES SHALL BE SPACED 3'-6" C-C, SEE PIER ELEVATION VIEW.
  5. ALL PILES SHALL BE DRIVEN TO LEDGE OR REFUSAL WITH A MINIMUM BEARING CAPACITY OF 96 TONS. ESTIMATED PILE LENGTH: 60 L.F. (PIER #1), 80 L.F. (PIER #2).



STATE OF VERMONT AGENCY OF TRANSPORTATION	
TOWN OF WAITSFIELD	Bridge No. 25
HIGHWAY NO. TOWN HIGHWAY #15	Log Sta. 56+25
TOWN HIGHWAY #5 OVER MAD RIVER	Surv. Sta. 56+25
PIER #1 & PIER #2 DETAILS	
Designed by G. SPILAR	Drawn by R. NYE
Checked by R. PAVALDO	Bridge Design Supervisor
date 2/82	K. S. HAUT date 3/82
PROJECT WAITSFIELD	PROJECT NO. BAZ 1446(8)
Bridge Sheet No.	Sheet 13 of 57

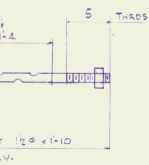
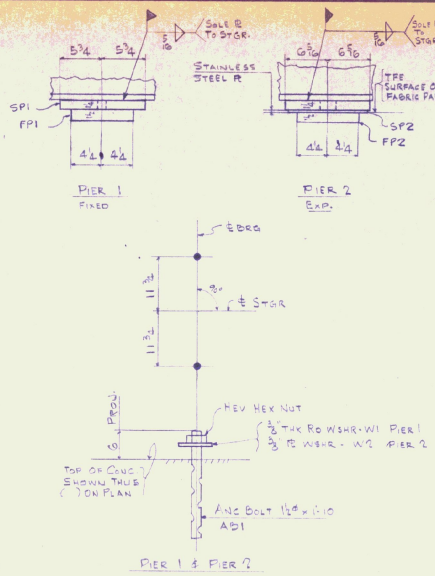
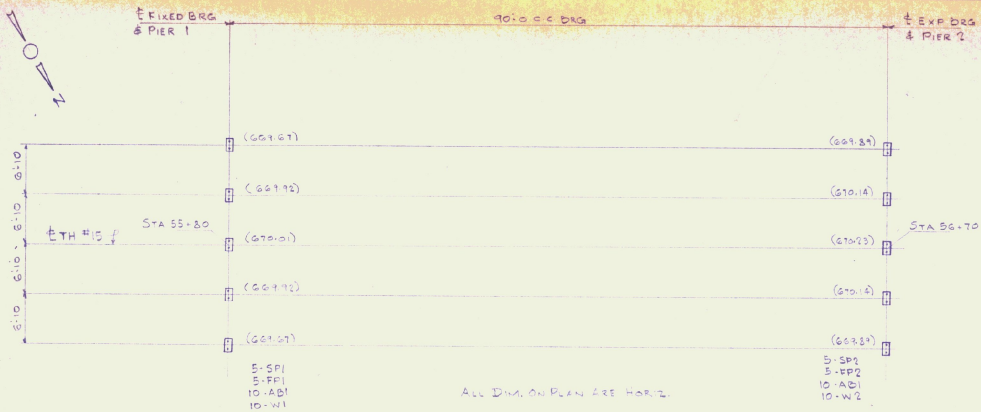


# FINAL EARTHWORK SUMMARY SHEET

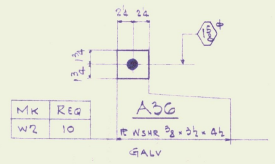
STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

NOTES	STATIONS	TOTAL EXCAVATION			ROCK			EMBANKMENT			UNAUTHORIZED WASTE			BASE			Borrow			NOTES	COLUMN SUMMARY							
		DESIGN	FINAL	DIFF.	DESIGN	FINAL	DIFF.	DESIGN	FINAL	DIFF.	DESIGN	FINAL	DIFF.	DESIGN	FINAL	DIFF.	DESIGN	FINAL	DIFF.		SHEET	COLUMN	EXCAVATION	ROCK	FILL	UNAUTHORIZ. WASTE	BASE	GB
	50+00	321	110	52																	1	1	1302		2350			
	+50		100	98																				2350			1027	
	51+00		95	181																							1027	
	+50		70	153																							1027	
	52+00		65	185																							1027	
	+50		12	71																							1027	
	53+00		5	160																							1027	
	+50		25	281																							1027	
	54+00		60	97																							1027	
	+50		80	130																							1027	
	55+00		0	77																							1027	
	+50																										1027	
	56+00																										1027	
	+50																										1027	
	57+00		80	32																							1027	
	+50		80	97																							1027	
	58+00		85	281																							1027	
	+50		5	5																							1027	
	59+00		0	17																							1027	
	+50		15	46																							1027	
	60+00		35	120																							1027	
	+50		95	72																							1027	
	61+00		21	95																							1027	
	+50		95	72																							1027	
	Column Total																										1027	
	500 Block TOTAL																										1027	
	50+00		950																								1027	
	55+00		243																								1027	
	60+00		74																								1027	
	Column Total		1367																								1027	
	50+00		145																								1027	
	55+00		207																								1027	
	60+00		100																								1027	
	Column Total		452																								1027	
	50+00		104																								1027	
	55+00		242																								1027	
	60+00		74																								1027	
	Column Total		320																								1027	

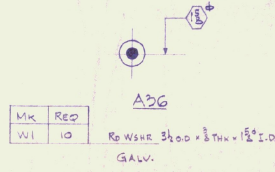
TOTALS		EXCAVATION	ROCK	FILL	UNAUTHORIZ. WASTE	BASE	GB
		1367		3178		1027	
REMARKS							
EARTH EXC.		1367					
Channel Fill		3178					
WET PAVEMENT		3178					
GRADE DIES FILL		480					
Channel Fill (including) 3000							
*What Available for Fill*							
EARTH EXCAV.		1367					
Channel Excav (80% x 1624)		282					
STRUCTURE EXCAV (20% x 614)		19					
TOTAL AVAILABLE FOR FILL		1678					
TOTAL FILL (including) 3000		3678					
TOTAL MAT. FOR FILL		1678					
DIBLOW		3066					



MK	REQ
Ab1	20



MK	REQ
W2	10



MK	REQ
W1	10

NOTE:  
BRG DEVICE ASSEMBLY, SHALL IN ADDITION TO THE TYPE D CERTIFICATION REQUIRE, SECT 1010 CERTIFY THAT UNITS SUPPLIED ARE DESIGNED TO MEET THE LOADING REQUIREMENTS INDICATED BELOW.  
LONGITUDINAL 10K  
TRANSVERSE 10K  
BEARING 100K

OCT 22 1982  
RECEIVED  
CHK'D BY *AVA* OK'D BY  
REQUESTER APPROVED  
BY *BSH* DATE 10/14/82  
10/13/82  
MAT'L A588 (UW)

**PAINT NOTES:**  
1. Surface Protection -- Blast Clean per Vermont State Spec. 506.47(b)2.

**SHOP NOTES:**  
1. Structural Steel to be fabricated in accordance with the State of Vermont Department of Highways "Standard Specifications for Highway and Bridge Construction" dated March 1976 and its latest revisions and the AASHTO Standard Specification for Highway Bridges dated 1977 and its latest revisions.

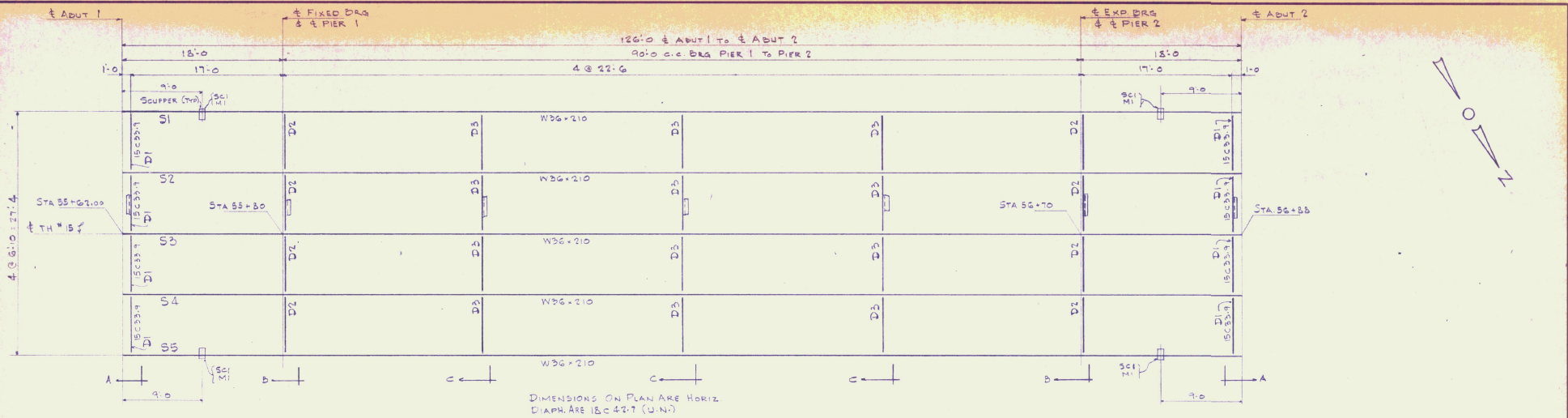
BILL OF MATERIAL					
NO.	MARK	DESCRIPTION	LENGTH		WEIGHT
			FT.	IN.	
SOLE PL					
5	SP1	1 1/2 x 11 1/2	2	4	STAINLESS STEEL
5	SP2	1 1/2 x 12 1/2	2	4	
5	2	1 1/2 x 12 1/2	1	8	
FABRIC PADS					
O.R.O. FLUOROCARBON Co. # 61549 SEE FLUOROCARBON DIV. OF 3M CO. FOR DETAIL					
5	FP1	1 1/2 x 8 1/2	1	7	W/ TFE SURFACE
5	FP2	1 1/2 x 8 1/2	1	7	
ANC BOLTS					
20	Ab1	1/2 #	1	10	GALV.
RD WSHRS					
10	W1	3/20 x 3/4 THK x 1 1/2 I.D.			GALV.
R WSHRS					
10	W2	2 1/2 x 3/4	0	4 1/2	GALV.

JOB NO. 82-2854-50 SHEET NO. 51/52

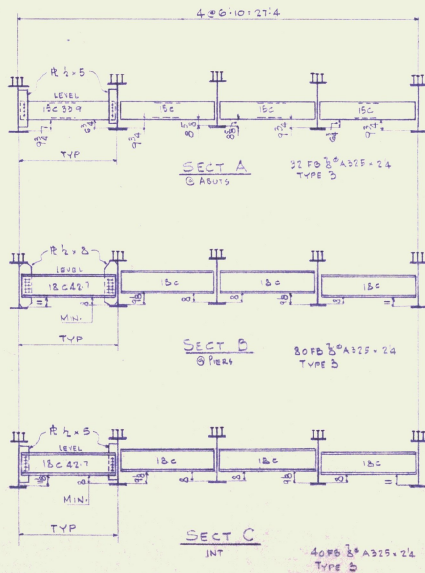
BILL OF MATERIAL					
NO.	MARK	DESCRIPTION	LENGTH		WEIGHT
			FT.	IN.	
<b>SUBMITAL #2</b>					
<b>FILE SET</b>					
REVISION RECORD					
DATE	REV. #	BY	REVISION		

VERMONT STRUCTURAL STEEL CORPORATION						
BURLINGTON, VERMONT						
PROJECT: WAITSFIELD				PRINT RECORD		
DATE	NO.	FOR	DATE			
10-8-82	5	APPL	10/14/82			
		30	10-20			
		5	FAPPL	10/20		
LOCATION: I-19 OVER MAD RIVER WAITSFIELD, VT						
CLIENT: WINTERSET, INC.						
ARCHITECT: STATE OF VT AGENCY OF TRANSPORTATION						
JOB NO. 82-2854 SHEET NO. 51/52						

170



DIMENSIONS ON PLAN ARE HORIZ  
DIAPH. ARE 18c 42.7 (U.N.)



RECEIVED 10/15/82  
 CHK'D BY [Signature]  
 APPROVED [Signature]  
 RE SUBMIT DATE 10/15/82  
 W. J. [Signature]

MAT'L A588 (UN) ON DETLS

LIST OF DWGS		FIELD QOLTS	
SHT #	DESCRIPTION	QTY	DESCRIPTION
E1	ANC BOLT ROW 4 DETLS	300	3/8" A588 x 24 (TYPE B)
E2	ERECTION PLAN		
1	STAR DETLS		
2	STAR & DIAPH DETLS		
3	SCUPPER DETLS	300	3/8" HRW (TYPE B)
			(LISTED ON SHT. 3)

REVISION RECORD			
DATE	REV. #	BY	REVISION
10/20/82	1	AT	SHEAR STUDS

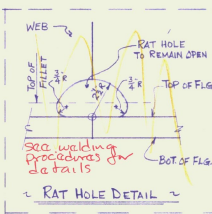
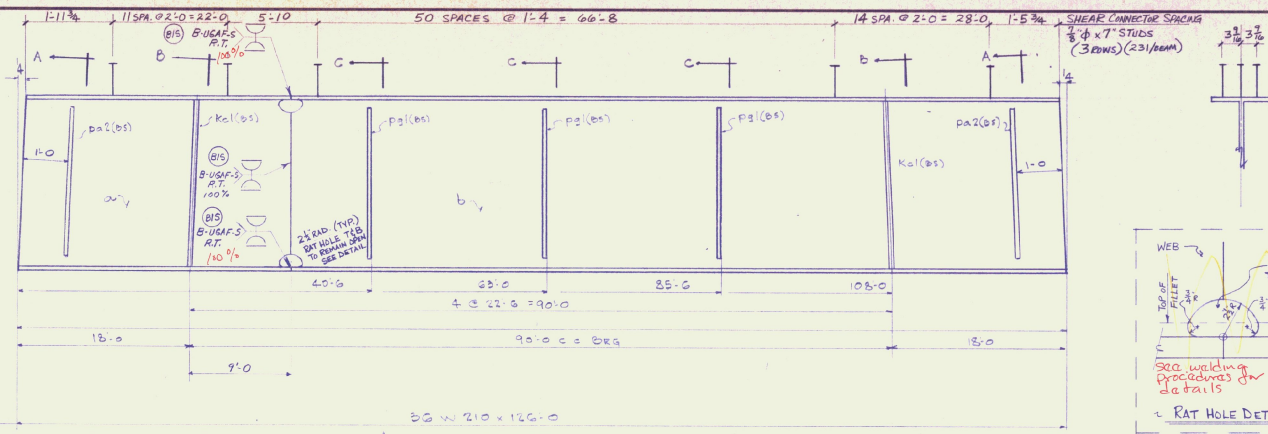
  

DATE		PROJECT		PRINT RECORD	
NO.	FOR	NO.	FOR	NO.	DATE
10-8-B-2		5	APR 1984	3	MAY 10-20
		5	FAPR 10/20		

17c

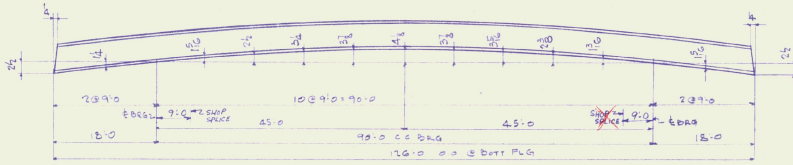
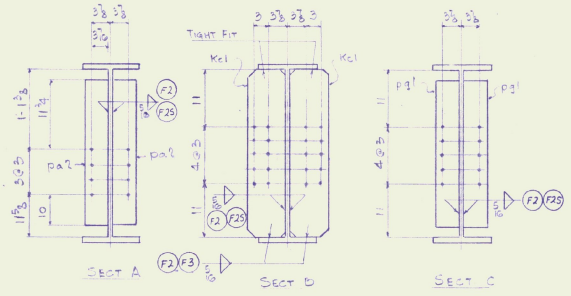
BURLINGTON, VERMONT 05405





Mk	REQ
SB	1

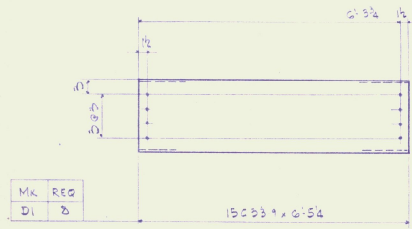
BILL OF MATERIAL						
NO. PIECES	MARK	DESCRIPTION	LENGTH		WEIGHT	
			FT.	IN.		
1	SB	STRINGER				
1	a	26W210	27	0		CRD. BETH #105004
1	b	1/2\"/>				
KC1	4	FE 7 x 5	2	10		R - STE
PA2	4	FE 7 x 5	2	10		RES-STE
PG1	6	FE 1	1	1		50210.
81-3856-51						
SHOP APPLIED SHEAR STUDS						
231		1/2\"/>				



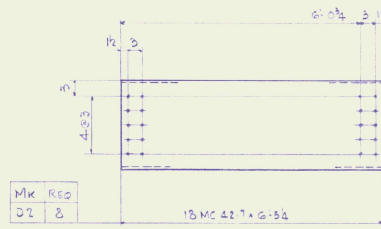
CAMBER DIAG  
STRINGERS 51 TO 55 (N/C)

100% R.T. ON FLANGES

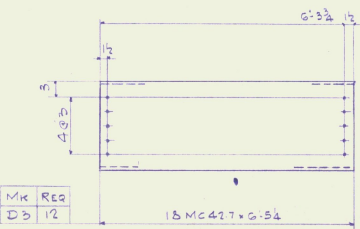
STUDS NOT SHOWN IN SECTS.



Mk	REQ
D1	8



Mk	REQ
D2	8



Mk	REQ
D3	12

OCT 22 1982  
RECEIVED  
CK'D BY AVA OK'D BY  
RESUBMIT APPROVED AS NOTED  
BY BJ DATE 10/19/82

BILL OF MATERIAL						
NO. PIECES	MARK	DESCRIPTION	LENGTH		WEIGHT	
			FT.	IN.		
DIAPH						
8	D1	18C53.9	6	54		CRD. BETH #105004
8	D2	18MC427	6	54		
12	D3	18MC427	6	54		

REVISION RECORD			
DATE	REV. #	BY	REVISION
10/20/82	3	AT	RAT HOLE DETAIL & REV.
10/20/82	2	AT	ADD SHOP APPL'D SHEAR STUDS
10/19/82	1	AT	PER APPL

VERMONT STRUCTURAL STEEL CORPORATION  
BURLINGTON, VERMONT

Project No. BRZ-17945(2)

DATE: 10-8-82 PROJECT: WATSFIELD

LOCATION: THIS OVER MAD RIVER WATSFIELD, VT

CUSTOMER: WINNERSSET INC

ARCHITECT: STATE OF VT AGENCY OF TRANSPORTATION

PRINT RECORD

NO. FOR DATE

5 APP'G 9/15/82

30 & CORR. 10-20

5 FRAME 10/20

DATE: 10-8-82 PROJECT: WATSFIELD

LOCATION: THIS OVER MAD RIVER WATSFIELD, VT

CUSTOMER: WINNERSSET INC

ARCHITECT: STATE OF VT AGENCY OF TRANSPORTATION

PRINT RECORD

NO. FOR DATE

5 APP'G 9/15/82

30 & CORR. 10-20

5 FRAME 10/20

DATE: 10-8-82 PROJECT: WATSFIELD

LOCATION: THIS OVER MAD RIVER WATSFIELD, VT

CUSTOMER: WINNERSSET INC

ARCHITECT: STATE OF VT AGENCY OF TRANSPORTATION

PRINT RECORD

NO. FOR DATE

5 APP'G 9/15/82

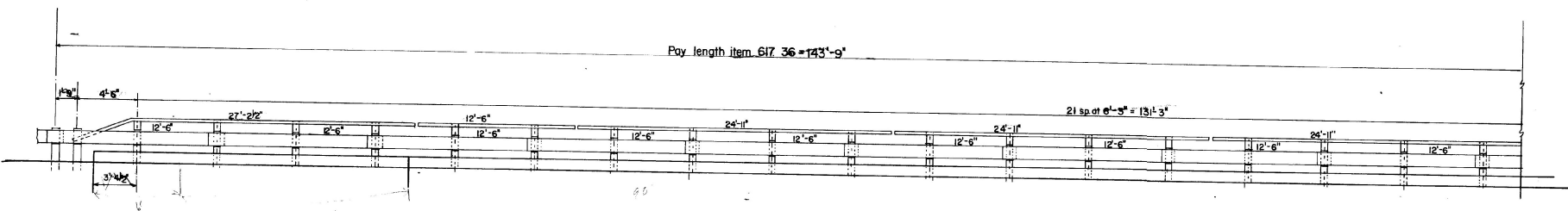
30 & CORR. 10-20

5 FRAME 10/20

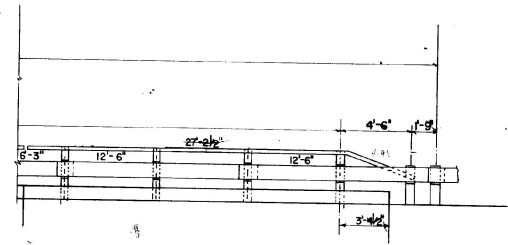
MATL A588

19c





TYPICAL ELEVATION



FILE SET

	BRIDGE POSTS	CLIP ANGLES	RAILS	6"x3" 1/2" RAILS	SPICE BARS	SPURTS 1/2"x1/2"	SPURTS 1/2"x1/2"
NORTH	22	22	1	3	2	2	10
SOUTH	22	22	1	3	2	2	10
TOTAL	44	44	2	6	4	4	20

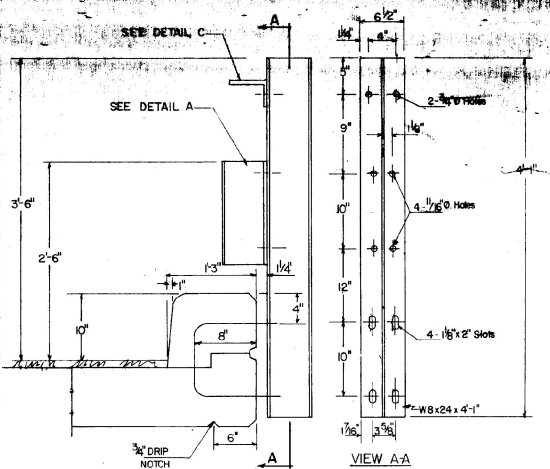
ALL ADDITIONAL MATERIAL SUPPLIED BY OTHERS

RECEIVED APR 8 1983  
 CK'D BY AVA OK'D BY \_\_\_\_\_  
 RESUBMIT APPROVED \_\_\_\_\_  
 BY BH DATE 4/14/83  
*Allen & Conch*

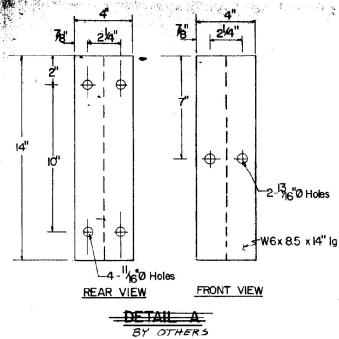
Total pay length item 61736 = 287'-6"

DRAWN BY:	DATE:	CHECKED BY:	SHEET NO.
<u>M J Z</u>	<u>3/31/83</u>	<u>JHF</u>	<u>1</u> OF <u>2</u>
<b>BRIDGE RAILING LAYOUT</b>			
Town of Waitsfield			
PROJ. NO. BRZ 1446(B)			
LAFAYETTE-SHELDON			
O.W. HUBBELL & SONS, INC.			
NEW HARTFORD,		NEW YORK	

DS-3688

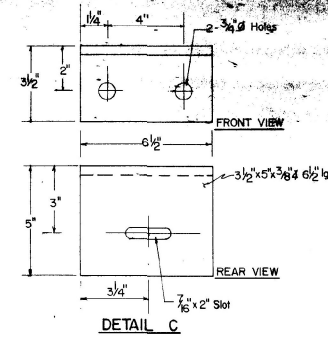


FASCIA MOUNTED STEEL POST  
TYPE - E



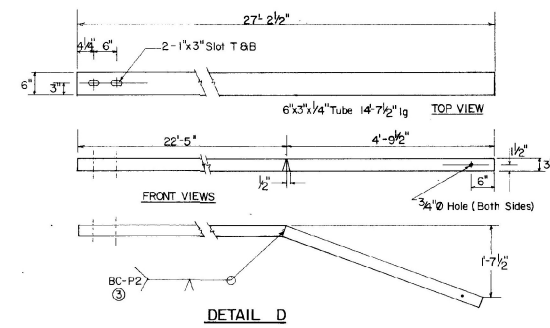
DETAIL A  
BY OTHERS

DETAIL B  
N.I.C.

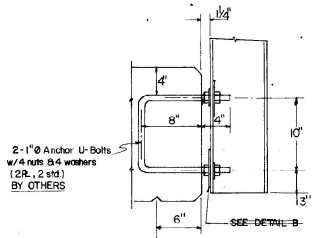


DETAIL C

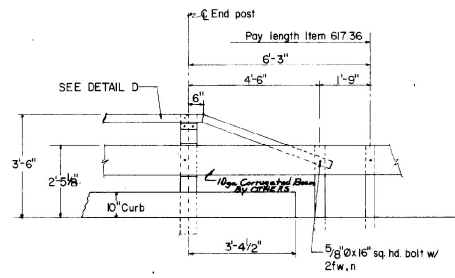
- NOTES:**
- 1) See skt dwg G-1 & G-1d for additional details of steel beam guard post, and skt SB-R4a-G2 for additional details of box beam rail.
  - 2) Anchor bolts, nuts and washers shall be galvanized in accordance with ASTM A-153.
  - 3) Materials shall conform to the following specifications:  
Heavy Duty Steel Rail - AASHTO W160, Class B-Type 2  
Posts, offsets, L's, & R's - ASTM A-36  
6" x 3" x 1/4" Tube - ASTM A-500 gr. B  
Bolts, washers & nuts - ASTM A-307
  - 4) All material shall galv. in accordance with ASTM A-123.
  - 5) All posts shall be set normal to grade.
  - 6) Approach rail height shall be transitioned to normal roadway height in 25 feet.
  - 7) Approach railing shall be heavy duty steel beam for 50 feet from the end of the bridge.
  - 8) Splices shall lap in the direction of traffic.
  - 9) Weld no. 3 shall conform to O.W. HUBBELL Approved welding Procedure.



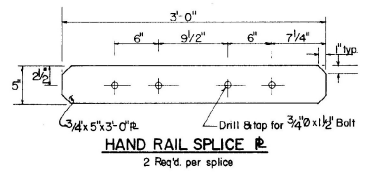
DETAIL D



ANCHORAGE DETAIL



ELEVATION - END OF RAILING

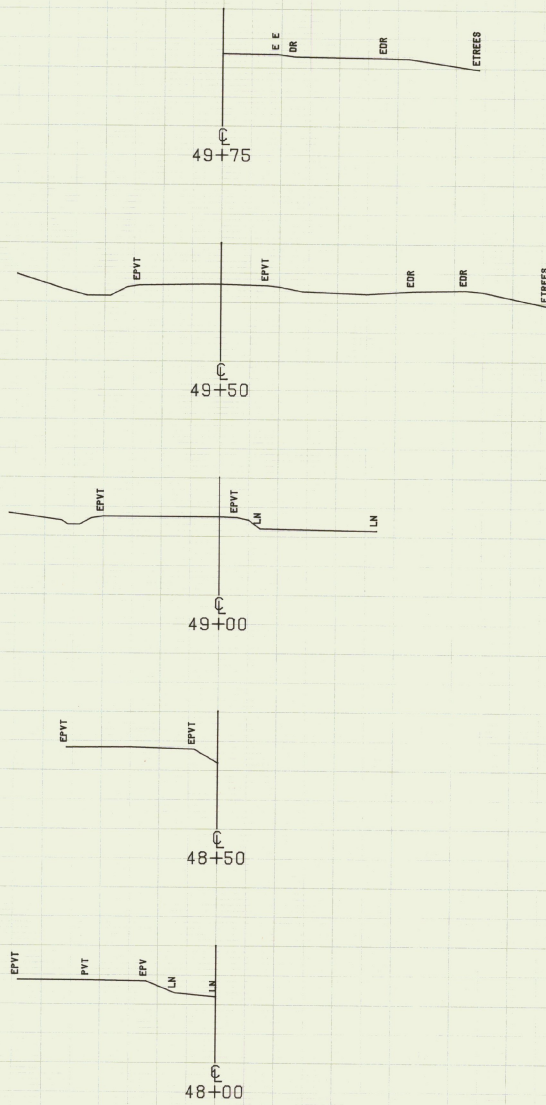


HAND RAIL SPLICE PL

RECEIVED 11/14/83  
 CK'D BY *ASH* OK'D BY *ASH*  
 RESUBMIT APPROVED  
 BY *ASH* DATE 11/14/83  
*Allen et Corcoran*

191

DRAWN BY <b>M J Z</b>	DATE <b>3/29/83</b>	CHECKED BY <i>FTH</i>	SHEET NO <b>2 of 2</b>
<b>BRIDGE RAILING DETAILS</b>			
Town of Waitsfield			
PROJ. NO. BRZ. 1446 (8)			
CUSTOMER <b>LAFAYETTE - SHELDON</b>			
O.W. HUBBELL & SONS, INC.		NEW HARTFORD, NEW YORK	
		<b>DS-3688</b>	



660

660

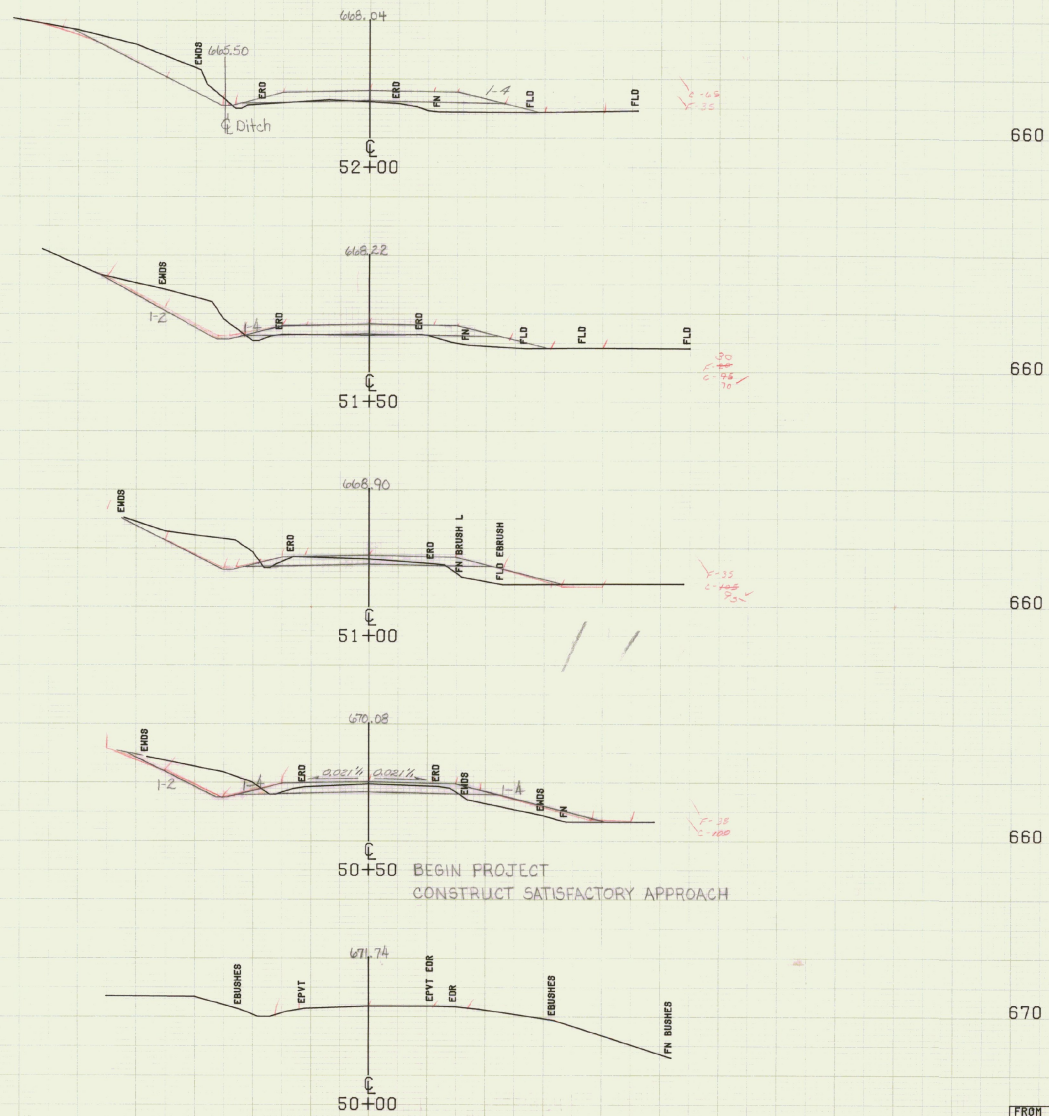
660

660

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FROM STA. 48+00	TO STA. 49+75
PROJECT NAME	WAITSFIELD DRAIN
NO.	BRZ1448(8)
SURVEYED BY	COUTURE
SHEET 20 OF 51 SHEETS	PLOTTED 02/25/81 OCT 1980

SCALE 1" = 10 FEET

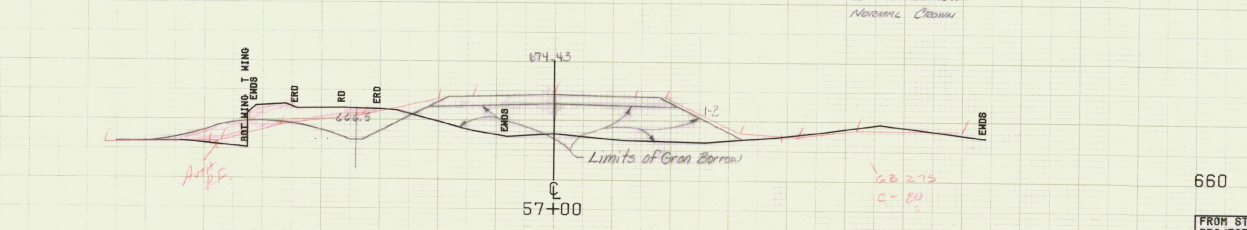
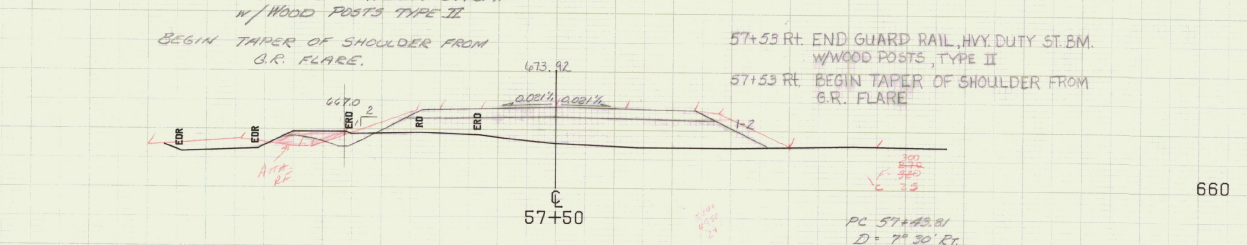
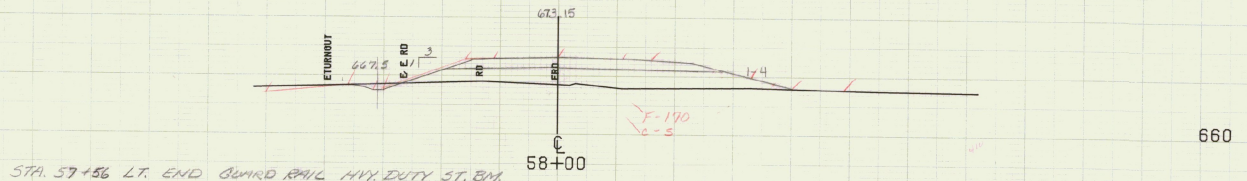
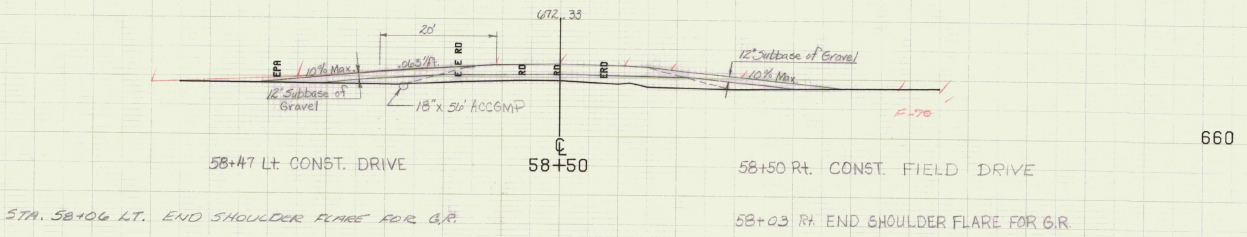
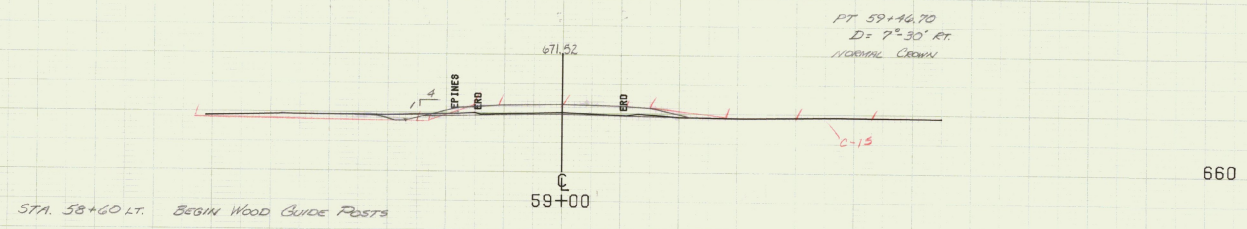


FROM STA. 50+00	TO STA. 52+00
PROJECT NAME	WATSFIELD MAIN
NO.	BR21446(8)
SURVEYED BY	COUTURE
SHEET 27 OF 57	PLOTTED 02/25/81
	OCT 1980

SCALE 1" = 10 FEET







56+96.88 Lt. 4 Ft. END BRIDGE RAIL - BEGIN GUARD RAIL, HYV. DUTY ST. BM  
W/ WOOD POSTS, TYPE II

FROM STA. 57+00 TO STA. 59+00

PROJECT NAME WAITSFIELD MAIN

NO. BR21448(8)

SURVEYED BY COUTURE

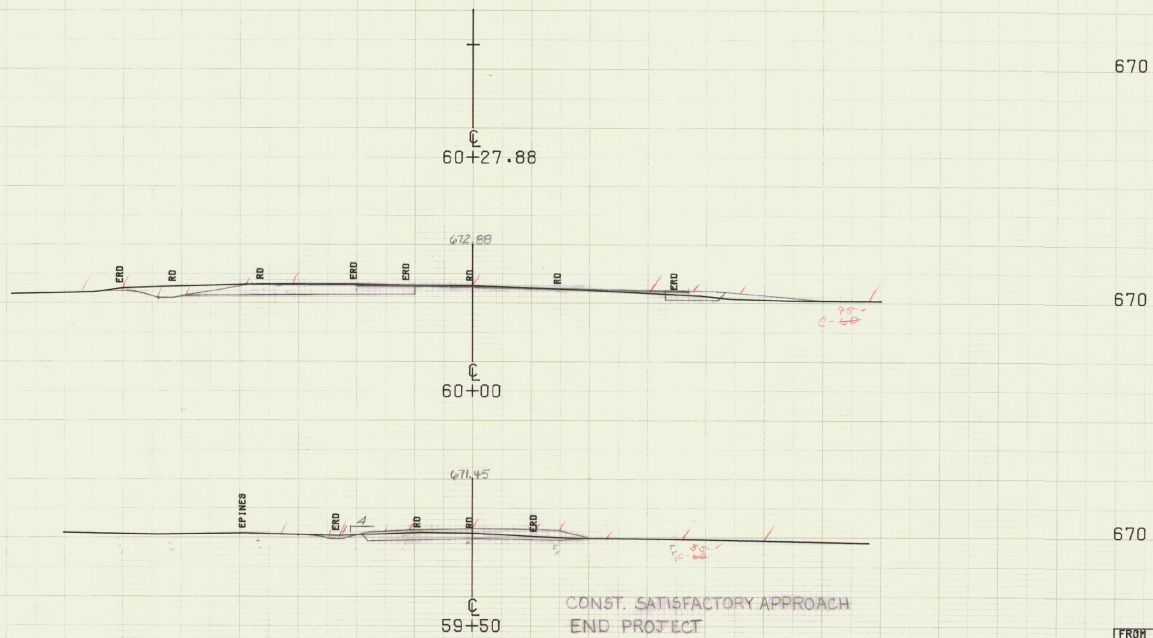
SHEET 24 OF 57 SHEETS

PLOTTED 02/25/81

OCT 1980

SCALE 1" = 40 FEET

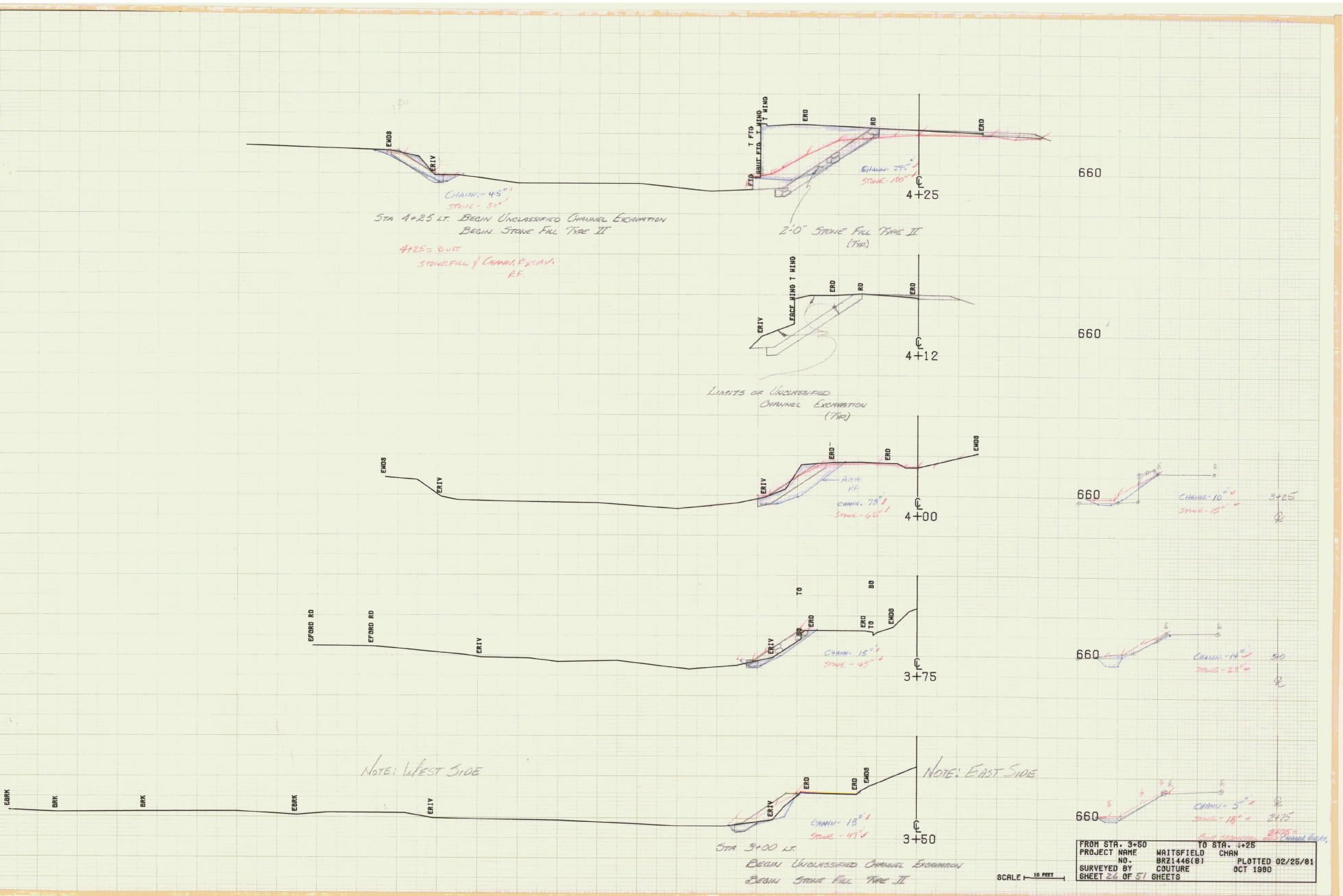
MAN. 08/11 2-2-80 1982



FROM STA. 59+50	TO STA. 60+27.88
PROJECT NAME	WAITSFIELD MAIN
NO.	BR21446(8)
SURVEYED BY	COUTURE
SHEET 20 OF 57 SHEETS	PLOTTED 02/26/81
	OCT 1980

PLAN CHECKED G.T. F. M.G.R.

SCALE 1" = 10 FEET



STA 4+25 LT. BEGIN UNCLASSIFIED CHANNEL EXCAVATION  
 BEGIN STONE FILL TYPE II  
 4+25 = BUTT  
 STONE FILL CHANNEL EXCAV.  
 R.F.

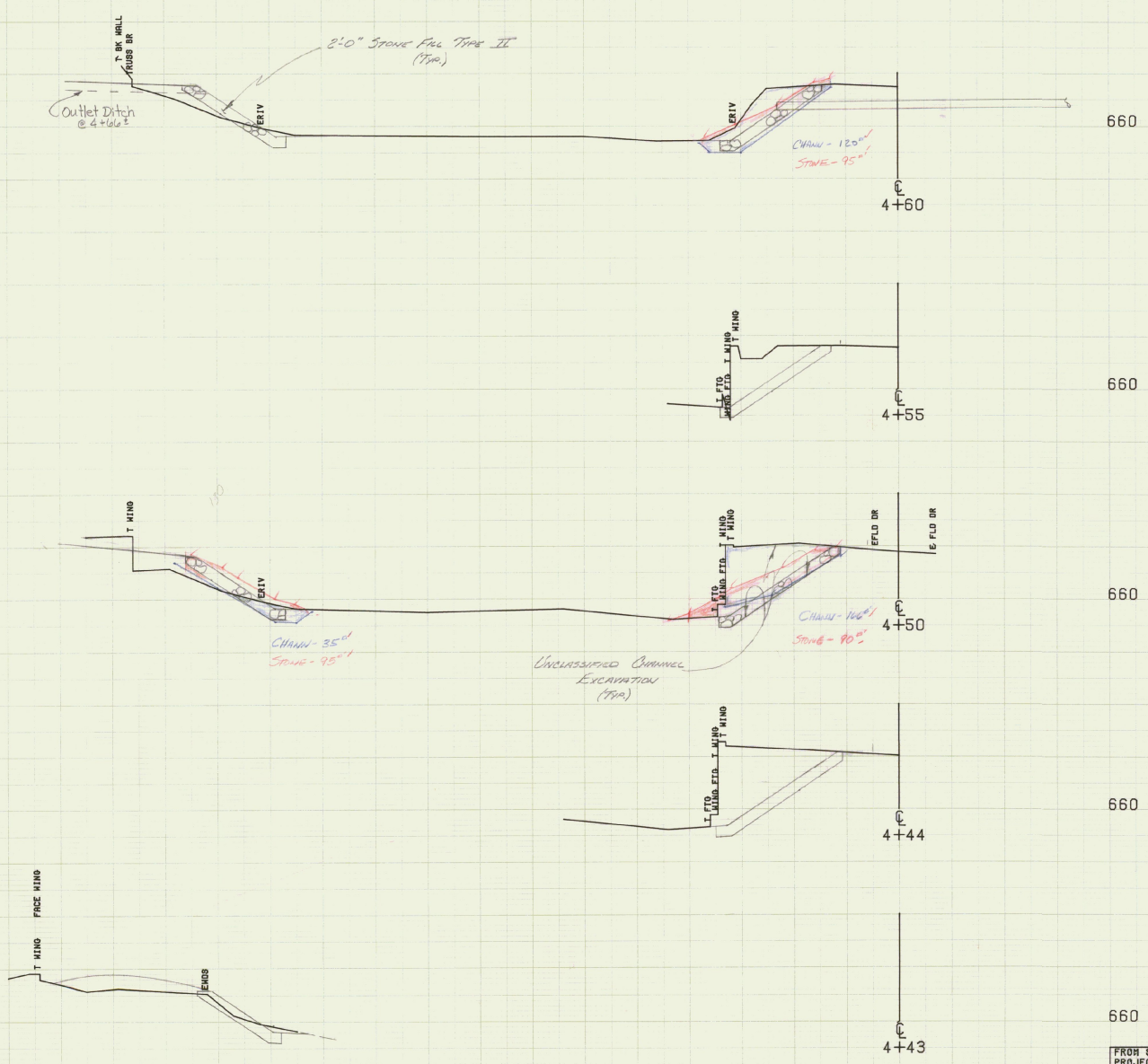
LIMITS OF UNCLASSIFIED  
 CHANNEL EXCAVATION  
 (TYP)

NOTE: WEST SIDE

NOTE: EAST SIDE

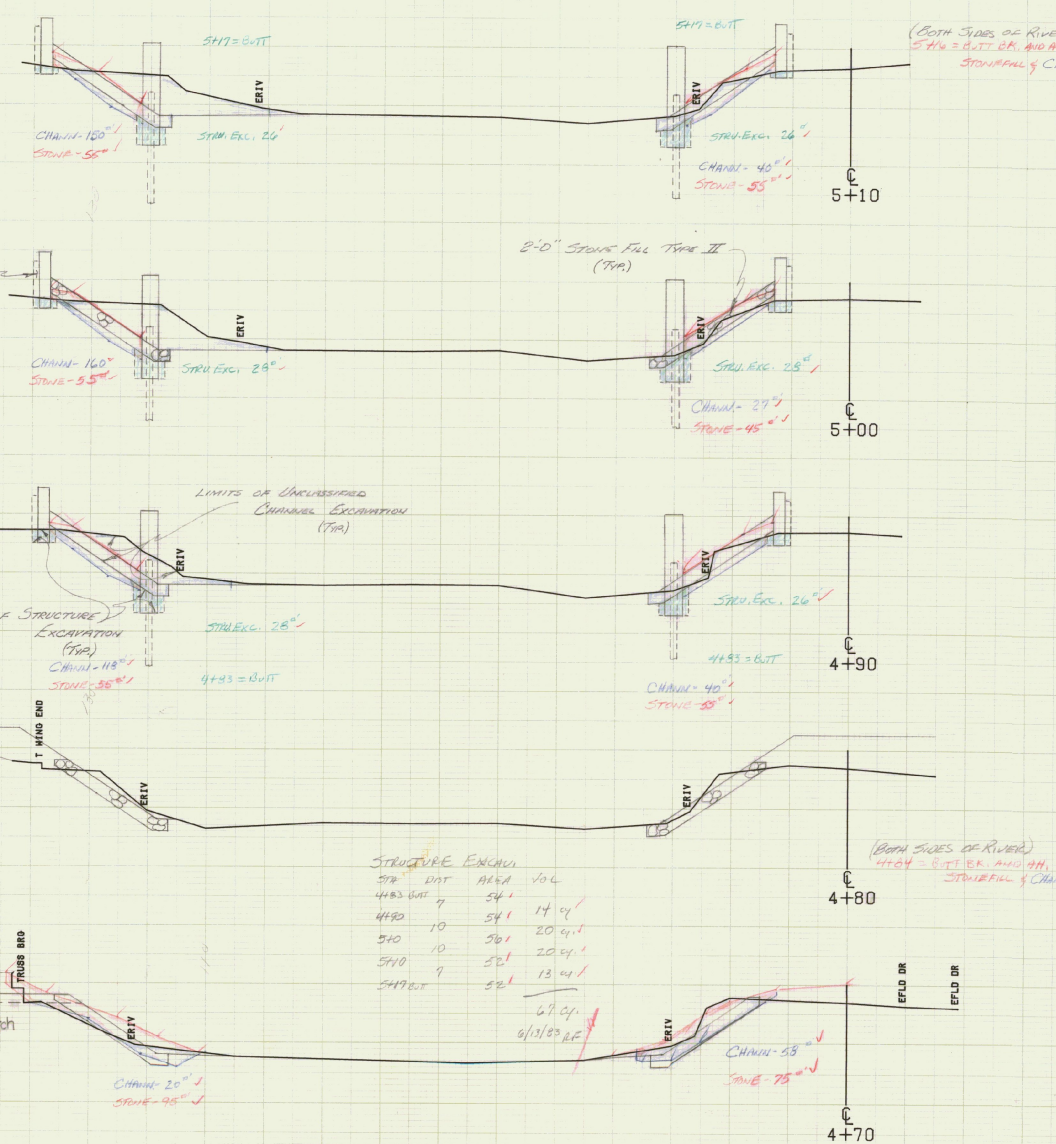
FROM STA. 3+50	TO STA. 4+25
PROJECT NAME	WAITSFIELD CHAN
NO.	BR21446(8)
SURVEYED BY	COUTURE
PLOTTED 02/25/81	
OCT 1980	
SHEET 26 OF 51 SHEETS	

SCALE 1" = 10 FEET



SCALE 1" = 10 FEET

FROM STA. 4+43	TO STA. 4+60
PROJECT NAME	WRIGHTSFIELD CHAN
NO.	BRZ1445(B)
SURVEYED BY	COUTURE
SHEET 27 OF 57	PLOTTED 02/25/81
	OCT 1980



**WEST SIDE**

STA	DIST	CHANN. EXCAV. AREA	CHANN. EXCAV. VOL.	STRA. EXC. AREA	STRA. EXC. VOL.
4+75 BUT	25	45'	37 cy.	30'	58'
4+80	20	35'	20 cy.	95'	70'
4+90	14	20'	10 cy.	95'	49'
4+94 BUT	20	10 cy.	95'		
4+94 BUT	6	118'	26 cy.	55'	12'
4+90	6	118'	26 cy.	55'	20'
5+00	10	160'	51 cy.	55'	20'
5+10	10	150'	33 cy.	55'	12'
5+16 BUT	6	150'	33 cy.	55'	12'
5+16 BUT	170	170'	25 cy.	60'	10'
5+24	7	170'	111 cy.	60'	41'
5+40	10	130'	44 cy.	45'	17'
5+50	10	110'	44 cy.	45'	33'
5+75	25	37'	68 cy.	24'	
			482 cy.	342 cy.	
			6-13-83	6-13-83	
			RF	RF	

**STRUCTURE EXCAV.**

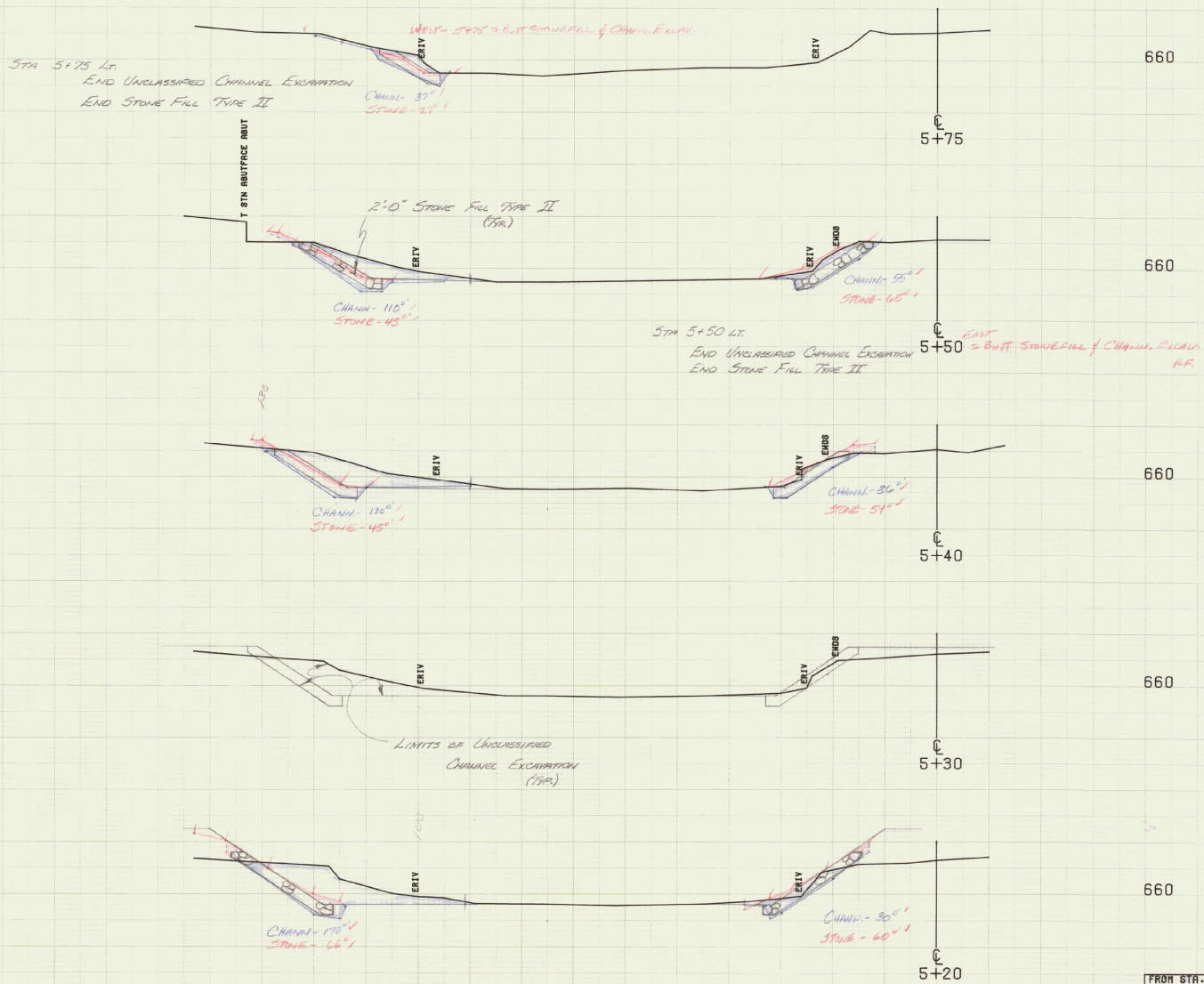
STA	DIST	AREA	VOL.
4+80 BUT	7	54'	14 cy.
4+90	10	54'	20 cy.
5+00	10	50'	20 cy.
5+10	9	50'	13 cy.
5+19 BUT	52'	67 cy.	6-13-83 RF

**660 EAST SIDE**

STA	DIST	CHANN. EXCAV. AREA	CHANN. EXCAV. VOL.	STRA. EXC. AREA	STRA. EXC. VOL.
2+75 BUT	25	5'	9 cy.	18'	19 cy.
3+0	25	14'	11 cy.	23'	18 cy.
3+25	25	10'	13 cy.	15'	29 cy.
3+20	25	18'	13 cy.	47'	43 cy.
3+75	25	15'	43 cy.	45'	50 cy.
4+0	25	78'	173 cy.	62'	75 cy.
4+25	25	295'	213 cy.	100'	85 cy.
4+50	10	160'	53 cy.	95'	34 cy.
4+60	10	120'	33 cy.	76'	31 cy.
4+70	14	58'	30 cy.	75'	39 cy.
4+84 BUT	40	9'	9 cy.	55'	12 cy.
4+90	10	40'	12 cy.	55'	19 cy.
5+0	10	27'	12 cy.	45'	19 cy.
5+10	10	40'	9 cy.	55'	12 cy.
5+16 BUT	40	9'	9 cy.	55'	12 cy.
5+16 BUT	30	4'	4 cy.	60'	9 cy.
5+20	20	30'	24 cy.	60'	42 cy.
5+40	10	30'	17 cy.	54'	22 cy.
5+50 BUT	35	17'	65'	65'	56 cy.
		680 cy.	6-13-83	6-13-83	
			RF	RF	

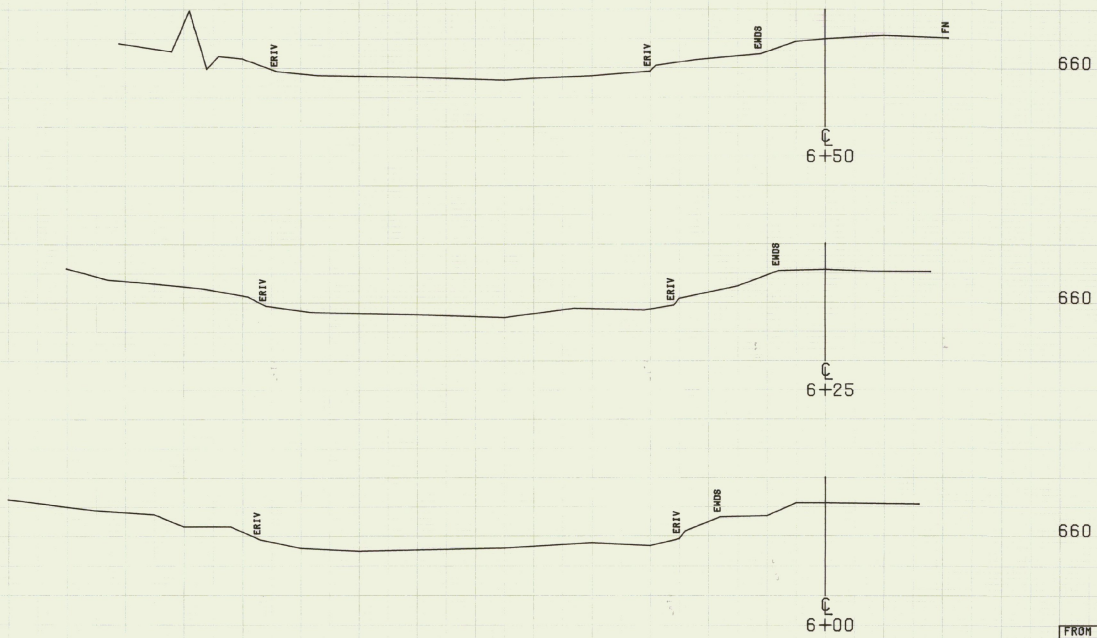
FROM STA. 4+70 TO STA. 5+10  
 PROJECT NAME WAITSFIELD CHAN  
 NO. BR21446(B)  
 SURVEYED BY COUTURE  
 SHEET 28 OF 51 SHEETS  
 PLOTTED 02/25/01  
 OCT 1980

SCALE 1" = 10 FEET



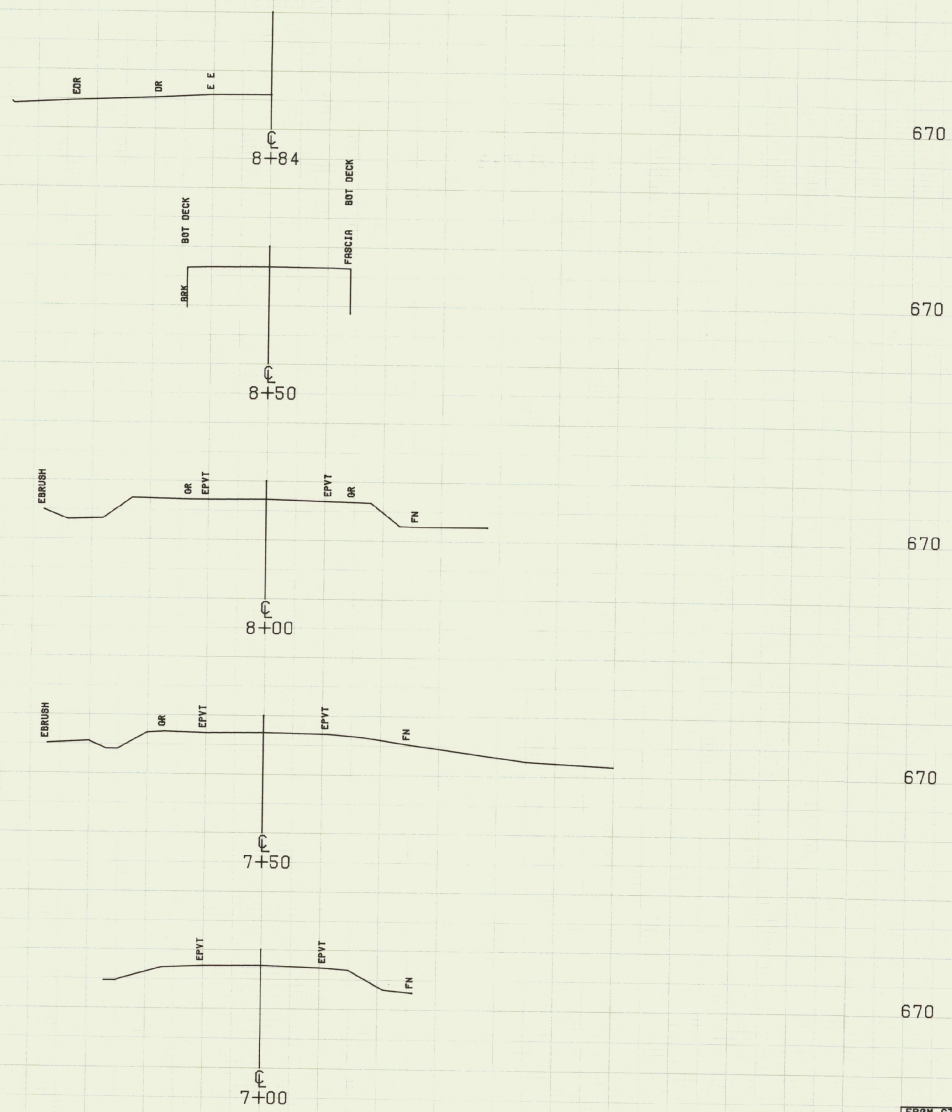
SCALE 1" = 10 FEET

FROM STA. 5+20	TO STA. 5+75
PROJECT NAME	WATSFIELD CHAN
NO.	BR1448(8)
SURVEYED BY	COUTURE
SHEET 29 OF 51	PLOTTED 02/25/81
	OCT 1980



SCALE 1" = 10 FEET

FROM STA. 6+00	TO STA. 6+50
PROJECT NAME	WAITSFIELD CHAN
NO.	BRE1448(8)
SURVEYED BY	COUTURE
SHEET 30 OF 57 SHEETS	PLOTTED 02/25/81
	OCT 1980



670

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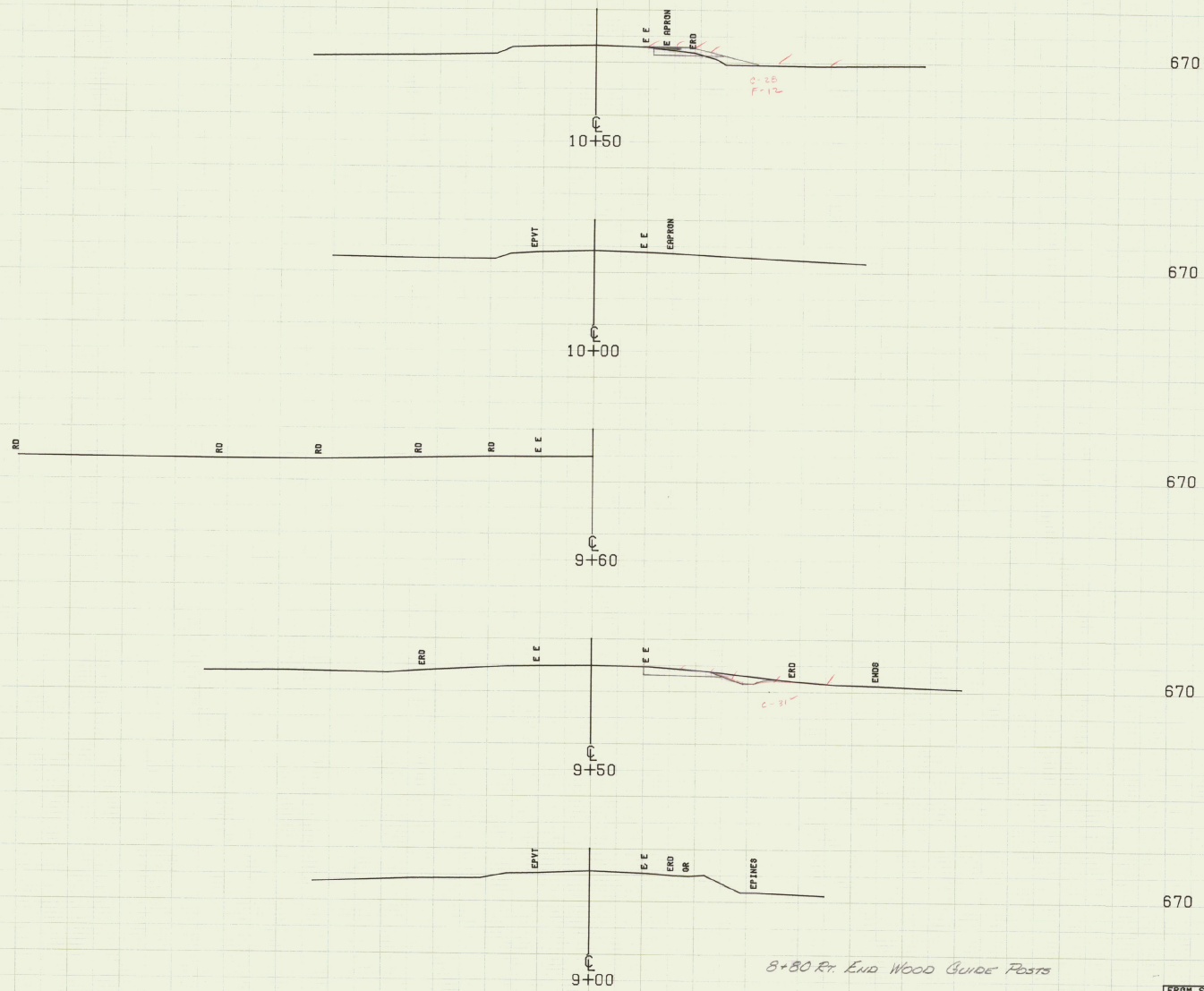
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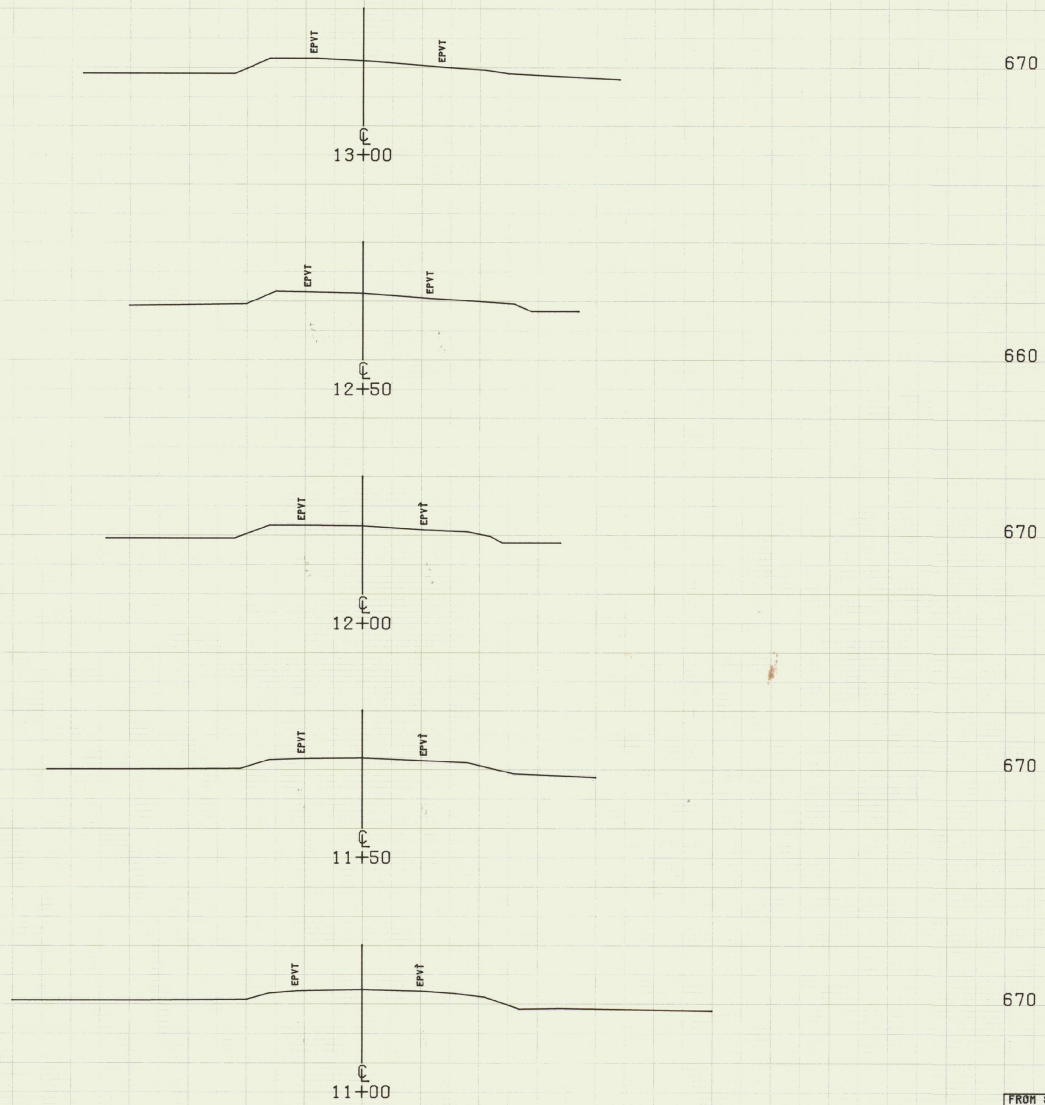
SCALE 1" = 10 FEET

FROM STA. 7+00	TO STA. 8+64
PROJECT NAME	WAITSFIELD VT100
NO.	BRZ1446(8)
SURVEYED BY	COUTURE
SHEET 37 OF 57	PLOTTED 02/25/81
	OCT 1980



FROM STA. 9+00	TO STA. 10+50
PROJECT NAME	WAITSFIELD VT100
NO.	BRZ1448(8)
SURVEYED BY	COUTURE
SHEET 32 OF 51 SHEETS	PLOTTED 02/25/81
	OCT 1980

SCALE 1" = 10 FEET

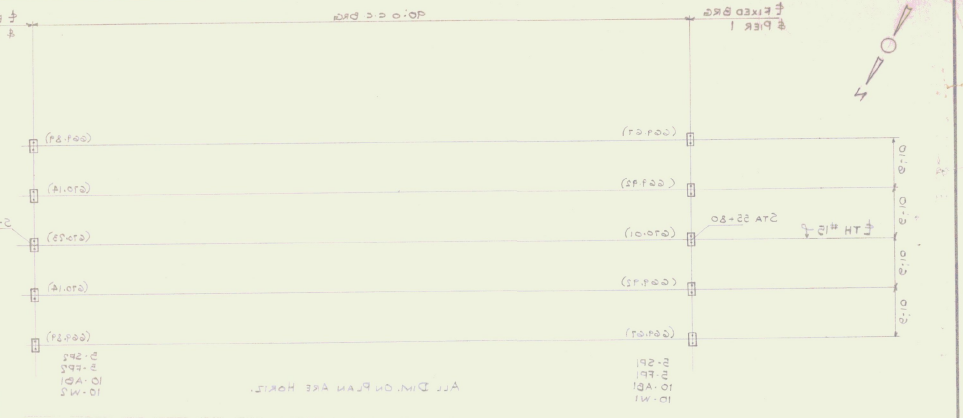
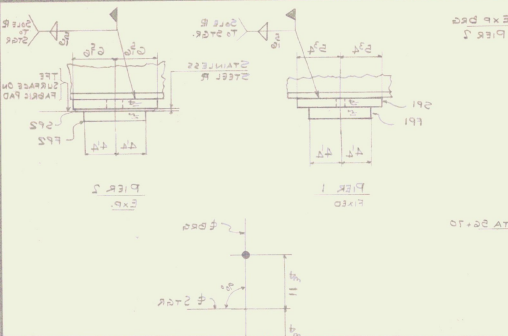


SCALE 1" = 10 FEET

FROM STA. 11+00	TO STA. 13+00
PROJECT NAME	WATTSFIELD VT100
NO. BR21446(8)	PLOTTED 02/25/81
SURVEYED BY	COUTURE
SHEET 3 OF 5	SHEETS



NO.	QTY	DESCRIPTION	UNIT	PRICE	TOTAL
1	1	STEEL BEAM	LB		
2	2	STEEL BEAM	LB		
3	2	STEEL BEAM	LB		
4	2	STEEL BEAM	LB		
5	2	STEEL BEAM	LB		
6	2	STEEL BEAM	LB		
7	2	STEEL BEAM	LB		
8	2	STEEL BEAM	LB		
9	2	STEEL BEAM	LB		
10	2	STEEL BEAM	LB		
11	2	STEEL BEAM	LB		
12	2	STEEL BEAM	LB		
13	2	STEEL BEAM	LB		
14	2	STEEL BEAM	LB		
15	2	STEEL BEAM	LB		
16	2	STEEL BEAM	LB		
17	2	STEEL BEAM	LB		
18	2	STEEL BEAM	LB		
19	2	STEEL BEAM	LB		
20	2	STEEL BEAM	LB		
21	2	STEEL BEAM	LB		
22	2	STEEL BEAM	LB		
23	2	STEEL BEAM	LB		
24	2	STEEL BEAM	LB		
25	2	STEEL BEAM	LB		
26	2	STEEL BEAM	LB		
27	2	STEEL BEAM	LB		
28	2	STEEL BEAM	LB		
29	2	STEEL BEAM	LB		
30	2	STEEL BEAM	LB		
31	2	STEEL BEAM	LB		
32	2	STEEL BEAM	LB		
33	2	STEEL BEAM	LB		
34	2	STEEL BEAM	LB		
35	2	STEEL BEAM	LB		
36	2	STEEL BEAM	LB		
37	2	STEEL BEAM	LB		
38	2	STEEL BEAM	LB		
39	2	STEEL BEAM	LB		
40	2	STEEL BEAM	LB		
41	2	STEEL BEAM	LB		
42	2	STEEL BEAM	LB		
43	2	STEEL BEAM	LB		
44	2	STEEL BEAM	LB		
45	2	STEEL BEAM	LB		
46	2	STEEL BEAM	LB		
47	2	STEEL BEAM	LB		
48	2	STEEL BEAM	LB		
49	2	STEEL BEAM	LB		
50	2	STEEL BEAM	LB		



**REVISIONS**

NO.	DESCRIPTION	DATE	APPROVED
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**NOTES:**

1. STEEL ASSEMBLY EXCEPT AS NOTED.
2. TOLERANCES UNLESS OTHERWISE SPECIFIED SHALL BE AS FOLLOWS:
3. ALL DIMENSIONS SHALL CONFORM TO SUBSECTION 781.10.

**EXPANSION BEARINGS**  
AT PIER 2

**FIXED BEARINGS**  
AT PIER 1

**PROJ: TOWN HIGHWAY #19 OVER MAD RIVER, WATSFIELD, VT**

**STATE OF VERMONT PROJ: 882-1446 (A)**

**THE FLUORCORP CO.**  
VERMONT STRUCTURAL STEEL CORPORATION  
BURLINGTON, VT 05402

**DESIGNER: Mark S. [Signature]**  
**DATE: OCT. 7, 1962**  
**SCALE: 1/8" = 1'-0"**

**PROJECT NO: B-3583-REV. 1**  
**SHEET 1 OF 1**

NO.	DATE	DESCRIPTION
1	10/22/62	FINAL ISSUE
2		
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**Web splice 100% RT**

**WATSFIELD VSSC 2-3856**

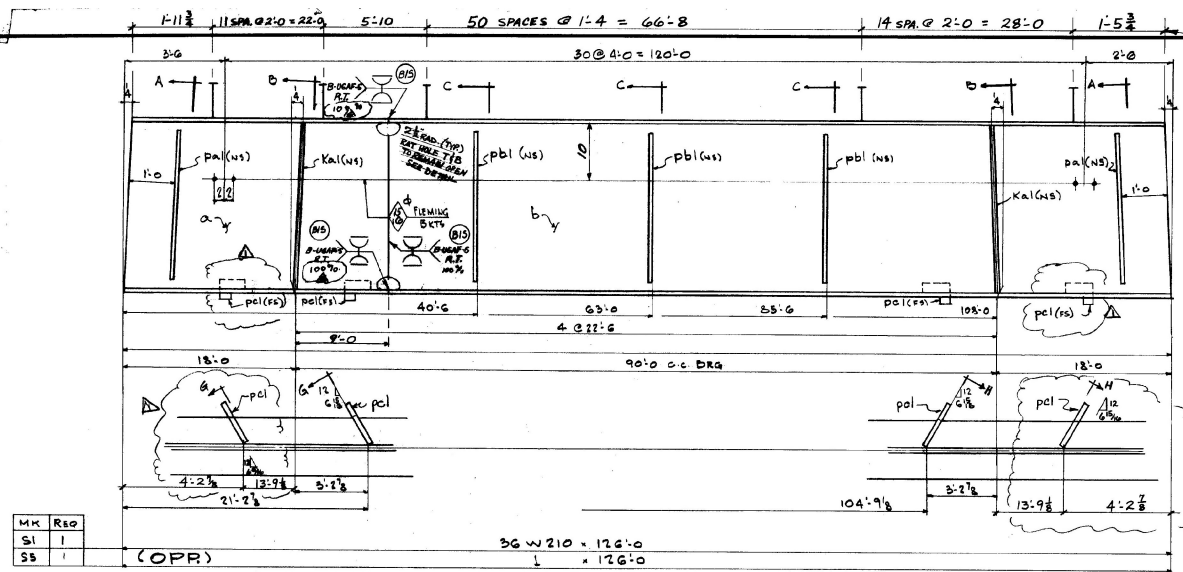
**1 3/8" FLANGE**

**Flange splice 100% RT**

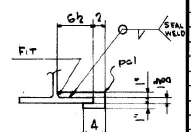
1. cut ends of beams to match
2. Weld web full depth & RT
3. Cope hole as shown
4. Weld flanges full penetration
5. RT flange so that full coverage of weld is obtained

**82-3056**



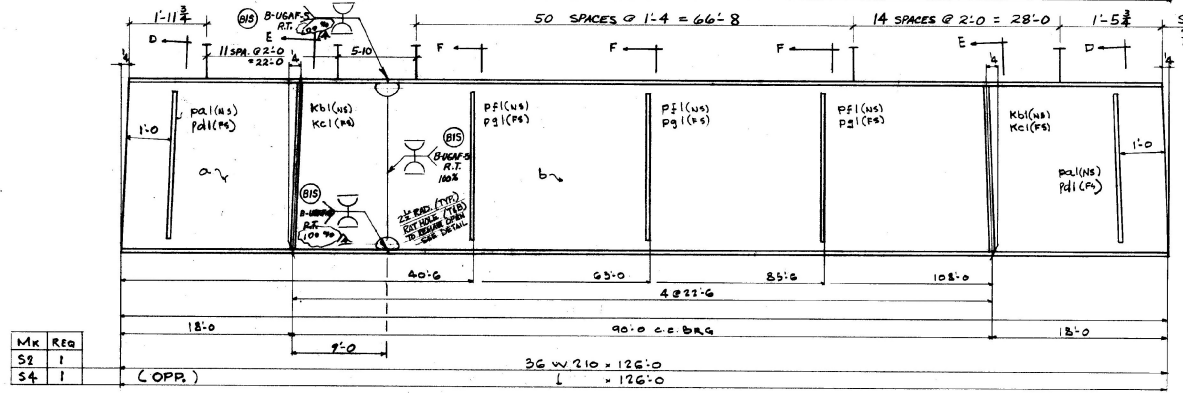


SHEAR CONNECTOR SPACING  
 $\frac{1}{2}$ "  $\phi$  X 7" STUDS (3 BEAMS) 231/BEAM  
 (SHOP APPLIED)



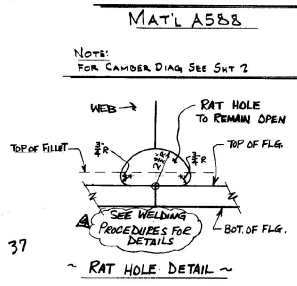
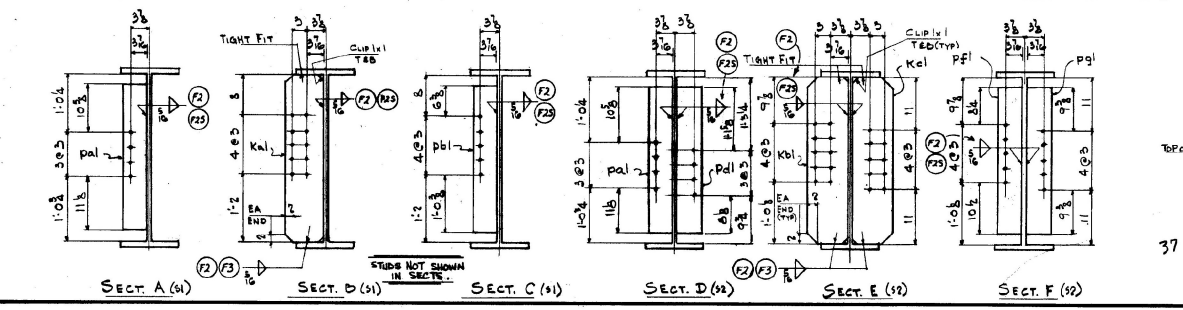
SECT G  
 SECT H (OPP)

Mx	REQ
S1	1
S5	1



SHOP APPLIED  
 SHEAR CONNECTOR SPACING  
 $\frac{1}{2}$ "  $\phi$  X 7" STUDS (3 BEAMS)  
 (231/BEAM)

Mx	REQ
S2	1
S4	1



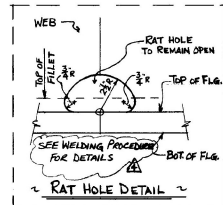
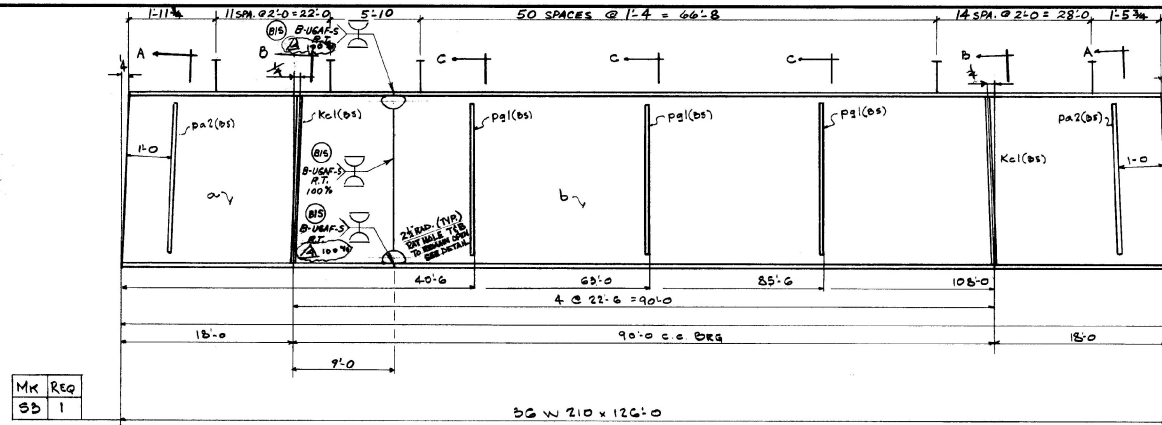
BILL OF MATERIAL						
NO.	QTY	MARK	DESCRIPTION	LENGTH	THICKNESS	WEIGHT
1	1	S1	STRINGER			(OPP)
2	2	a	36 W 210	27'-0"		11340
2	2	b	14 x 1/2 x 1/4	99'-0"		41580
4	4	Ka1	PL 1/2 x 8	2'-10"		STK 154
4	4	Pa1	PL 1/2 x 5	2'-6"		STK 308
6	6	Pb1	PL 1/2 x 5	2'-6"		STK 308
8	8	Pc1	PL 1/2 x 5	2'-6"		STK 308
81-3856-51 SHOP APPLIED SHEAR STUDS						
462	0	7	1/2" $\phi$ SHEAR STUDS	0	7	STK NELLUM 16007

BILL OF MATERIAL						
NO.	QTY	MARK	DESCRIPTION	LENGTH	THICKNESS	WEIGHT
1	1	S2	STRINGER			(OPP)
2	2	a	36 W 210	27'-0"		11340
2	2	b	14 x 1/2 x 1/4	99'-0"		41580
4	4	Kb1	PL 1/2 x 8	2'-10"		STK 154
4	4	Kc1	PL 1/2 x 5	2'-6"		STK 308
4	4	Pd1	PL 1/2 x 5	2'-6"		STK 308
4	4	Pe1	PL 1/2 x 5	2'-6"		STK 308
4	4	Pa1	PL 1/2 x 5	2'-6"		STK 308
81-3856-51 SHOP APPLIED SHEAR STUDS						
462	0	7	1/2" $\phi$ SHEAR STUDS	0	7	STK NELLUM 16007

REVISION RECORD						
DATE	REV #	BY	REVISION	DATE	REV #	BY
10-27	4	ADD	RAY: PL2 MWF			
10/20/82	3	AT	RAT HOLE DETAIL REVISION			
10/20/82	2	AT	ADD. SHOP APPL'D SHEAR STUDS			
10/19/82	1	AT	PER APPL' (ADD. DEPT. 85)			

VERMONT STRUCTURAL STEEL CORPORATION  
 BURLINGTON, VERMONT

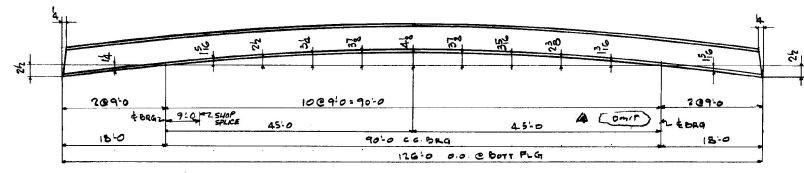
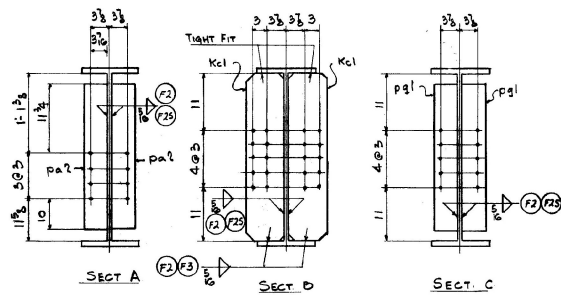
PROJECT: WATSFIELD  
 LOCATION: THRU OVER MAD RIVER, WATSFIELD, VT  
 DATE: 10-8-82  
 CUSTOMER: WINTERBET, INC.  
 ARCHITECT: STATE OF VT AGENCY OF TRANSPORTATION  
 DRAWING NO.: 82-3856  
 SHEET NO.: 1/2



MK REQ  
SS 1

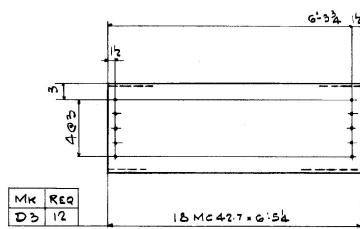
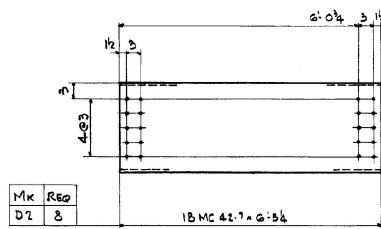
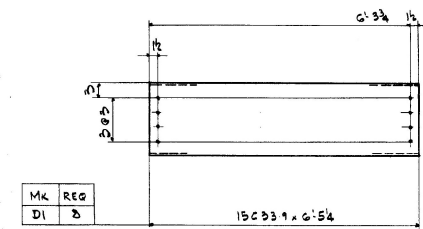
A588		BILL OF MATERIAL			
NO. OF PICES	NAME	DESCRIPTION	LENGTH FT.	WEIGHT	
1	SS	STRINGER			
1	a	86 W 210	27'-0"	5170	
1	b	3/8" X 7" STUDS (3 ROWS)	207'-0"	20770	
Kc1	4	PL 1/2" X 8"	2'-10"	154	
pa2	4	PL 2" X 5"	2'-6"	265.572	
Pq1	PL 1"	1'-1"	218		
				26482	
81-3856-51					
SHOP APPLIED SHEAR STUDS					
231		3/8" X 7" SHEAR STUD	0'-7"	276.480	

JOB NO. 82-3856 SHEET NO. 23



A588		BILL OF MATERIAL			
NO. OF PICES	NAME	DESCRIPTION	LENGTH FT.	WEIGHT	
DIAPH					
8	D1	15C23-9	6'-5 1/2"	1746	
8	D2	18MC42-7	6'-5 1/2"	2199	
12	D3	18MC42-7	6'-5 1/2"	3244	
				7244	

JOB NO. 82-3856 SHEET NO. 24



REVISION RECORD				
DATE	REV. #	BY	REVISION	REVISION
10-87	1	UP	REV. PCH. 888	
10/20/82	3	AT	RAT HOLE DETAIL & REV.	
10/20/82	2	AT	ADD. SHOP APPL'D SHEAR STUDS	
10/19/82	1	AT	PER ADD'L	

VERMONT STRUCTURAL STEEL CORPORATION				
BURLINGTON, VERMONT				
Proj. No. BRZ-196(10)				
DATE	REV. #	BY	REVISION	PRINT RECORD
10-87	1	UP	REV. PCH. 888	
10/20/82	3	AT	RAT HOLE DETAIL & REV.	
10/20/82	2	AT	ADD. SHOP APPL'D SHEAR STUDS	
10/19/82	1	AT	PER ADD'L	
DATE	10-8-82	PROJECT	WAITSFIELD	NO.
DESIGNER	T	LOCATION	TH 15 OVER MAD RIVER WAITSFIELD, VT	FOR
CHECKER	S	CUSTOMER	WINTERS RT INC	DATE
NO. OF	18	NO. OF	STATE OF VT AGENCY OF TRANSPORTATION	
NO. OF	SEE NOTE	JOB NO.	82-3856	
NO. OF	SHT 41	NO. OF	81 SHOP APPL'D SHEAR STUDS	

MAT'L A588



# STATE OF VERMONT AGENCY OF TRANSPORTATION



## PROPOSED IMPROVEMENT BRIDGE PROJECT

TOWN OF WAITSFIELD  
COUNTY OF WASHINGTON

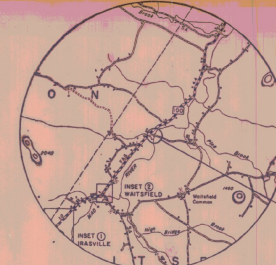
ROUTE NO: T.H. 15 (CL.3) BRIDGE NO: 25

**PROJECT LOCATION:** This project begins approximately 980 feet southeasterly of the intersection of Vt. 100 & T.H. 15 and extends 900' northwesterly.

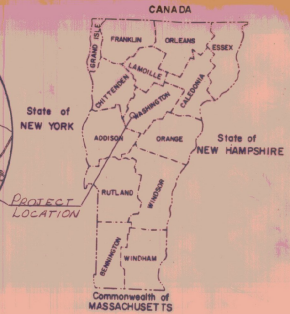
**PROJECT DESCRIPTION:** This project replaces the existing structure with a new rolled beam w/R.C. deck structure on a new northerly location w/approx. 850' of upgraded approach roadway and necessary channel work.

LENGTH OF STRUCTURE: 123.0 FEET  
 LENGTH OF PARTICIPATION ROADWAY: 772.0 FEET  
 LENGTH OF NON-PARTICIPATION ROADWAY: FEET  
 LENGTH OF PROJECT: 900.0 FEET  
 LENGTH OF R.O.W. PROJECT: 997 FEET • 0.189 MILES

TRAFFIC DATA  
 1982 AADT = 500  
 1982 DHV = 70  
 1992 AADT = 580  
 1992 DHV = 80  
 D = 5%  
 T = 6%  
 DESIGN SPEED = 30 MPH



LOCATION MAP  
(TRACED FROM COUNTY MAP)



GENERAL NOTES

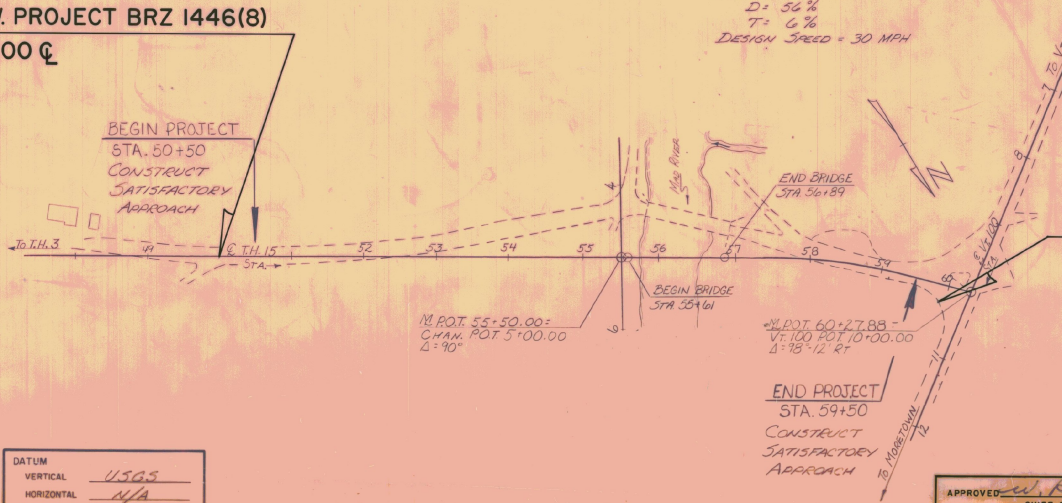
### R.O.W. PLANS

**BEGIN R.O.W. PROJECT BRZ 1446(8)  
STA. 50+00 ☐**

**END R.O.W. PROJECT BRZ 1446(8)  
STA. 59+97 RT.**

- 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 ————
  - R.O.W. TAKING LINE ————
  - SLOPE RIGHTS ———— SR —○
  - TOP OF CUT ————
  - TOE OF SLOPE ————

DATUM	
VERTICAL	1156.3
HORIZONTAL	N/A



M. POT. 55+50.00 =  
 CHAN. POT. 5+100.00  
 Δ = 90°

M. POT. 60+27.88 =  
 Vt. 100 POT. 10+00.00  
 Δ = 78°12' RT

**END PROJECT  
STA. 59+50**  
 CONSTRUCT  
SATISFACTORY  
APPROACH

APPROVED: *W.R. Young*  
 CHIEF, PROPERTY ADMINISTRATION  
 DATE: 2-16-82

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, 1978, as approved by the Federal Highway Administration on October 27, 1978 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: <i>S.J. O'Connell</i>	DATE: FEB 15 1982
DIRECTOR OF ENGINEERING AND CONSTRUCTION	
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED: _____	DATE: _____
DIVISION ADMINISTRATOR	
PROJECT: WAITSFIELD	PROJECT NO. BRZ-1446(8)
SHEET 1 OF 7 SHEETS	

STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
RIGHT-OF-WAY PLANS  
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
1A	TREMBLAY, JOSEPH E. & SALLY J.	5	50+00 LT. 50+00 LT. 50+33 LT.	52+25 LT. 53+23 LT. 52+70 LT.	0.05 A±		CONST. EASE. (T) 0.07 A± SLOPE (P) 0.05 A±	WDOE	6-25-82	WAITSFIELD	37	505-01	1480 S.F.± 3050 S.F.± 2355 S.F.±
1B		5	50+00 RT.	50+73 RT.	0.01 A±								511 S.F.±
1C		6,7	56+14 RT. 56+14 RT. 56+40 RT. 57+40 RT. 58+50 RT.	59+97 RT. 58+90 RT. 58+90 RT. 58+90 RT.	0.34 A±		CONST. EASE. (T) 0.04 A± CHANNEL (P) 0.01 A± CONST. EASE. (T) 0.01 A± DRIVE (T)						1600 S.F.± 500 S.F.± 500 S.F.±
2A	SPAULDING, DONALD E. & LAURIE J.	5,6	50+34 RT. 50+25 RT. 53+00 RT. 54+72 RT. 55+00 RT.	50+27 LT. 51+35 RT. 56+14 RT. 55+00 RT.	0.0 A±		CONST. EASE. (T) 0.01 A±  CONST. EASE. (T) 0.00 A± DRIVE (T) CHANNEL (P) 110 S.F.±	WDOE	7-20-82	WAITSFIELD	38	8-0	535 S.F.±  2830 S.F.±
2B		6	56+25 LT. 56+45 LT.	56+71 LT. 56+71 LT.			CONST. EASE. (T) 0.01 A± CHANNEL (P) 16 S.F.±						540 S.F.±
2C		6	57+25 LT.	58+00 LT.									RIGHT OF WAY
3A	KEAR, WILLIAM T. & COLLEEN P.	6	55+30 LT. 55+45 LT.	55+50 LT. 55+55 LT.			CONST. EASE. (T) 360 S.F.± SLOPE (T) 75 S.F.±	WDOE	7-8-82	WAITSFIELD	37	557-0	
3B		6	55+70 LT.										RIGHT OF WAY

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY
1	#	Parcel # 4 OREEDON, Corrected Area OF CHANNEL RE. (P) TO 300 S.F.± PER C.O. # 5287	3-17-82	BAM	JOP
2	3,6	Parcel # 3A KEAR, Changed SLOPE RT. (P) TO SLOPE RT. (T) PER C.O. # 5288	3-17-82	BAM	JOP
3	3	Parcel 1B TREMBLAY, Corrected Total Area To 0.01 A± - 511 S.F.± PER C.O. # 5289	3-17-82	BAM	JOP
4	3,5,6	Parcel # 2A Spaulding, Remove Drive of 52'00 RE., Added Drive at 54+72 RE., and deleted slope re. (T) at 54'15-55'00 RE. PER C.O. # 5274	4-1-82	NWJ	T.P.M.
5	3	Parcel # 2A SPAULDING Reduced construction easement from 50+25 RT. - 52+40 RT. 0.03 A± (1250 S.F.) TO 50+25 RT. - 51+35 RT. 0.01 A± (535 S.F.±) PER C.O. # 5351	5-11-82	Kdp	JOP
6	4,6	Parcel # 4 OREEDON CHANGED AREA OF CONST. EASE. FROM 403 A± TO 300 A± AND ALSO CHANNEL RT. FROM 300 S.F.± TO 0.04 A± 1760 S.F.± PER C.O. # 5353	6-1-82	JDP	T.P.M.

MADE BY: BBB DATE 2-18-82  
CHECKED BY: \_\_\_\_\_ DATE \_\_\_\_\_

DR. RT. - DRAINAGE RIGHT  
DITCH RT. - DITCHING RIGHT  
CH. RT. - CHANNEL RIGHT  
DRIVE RT. - DRIVE RIGHT  
CUL. RT. - CULVERT RIGHT  
⓪ - DEMOLITION OR REMOVAL  
Ⓜ - WATER SOURCES

----- PRESENT R.O.W.  
--- TAKING WITHOUT ACCESS  
--- P --- TAKING WITHOUT ACCESS ALONG PROPERTY LINES  
--- TAKING WITH ACCESS  
(P) PERMANENT EASEMENT  
(T) TEMPORARY EASEMENT

LEGEND  
----- CONST. EASE. ----- CONST. EASEMENT  
--- SR --- SR --- SLOPE RIGHTS  
P L P L PROPERTY LINE  
--- Δ --- Δ --- TOP OF CUT  
--- O --- O --- TOE OF SLOPE

APPROVED Thomas J. Marks DATE 2-16-82  
CHIEF OF PLANS & DES.

PROJECT WAITSFIELD  
NO. BRZ 1448(8)  
SHEET 3 OF 7

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STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
RIGHT-OF-WAY PLANS  
DETAIL SHEET

TABLE OF PROJECT PROPERTY ACQUISITION

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING	REM.	RIGHTS	TITLE TAKEN	DATE	TOWN OR CITY RECORDED	BK.	PG.	REMARKS
4	CREEDON, CARL L. & STEPHANIE D.	6	55+55 LT. 55+70 LT. 55+80 LT.	56+30 LT.  55+85 LT.			CONST. EASE. (T) (0.10 A±) DRIVE (T) CHANNEL (P) (0.04 A±)	W00E	7-20-82	WAITSFIELD	37	575	(1760 S.F.±)
5	GREEN MOUNTAIN POWER CORP.												UTILITY
6	WAITSFIELD-FAYSTON TELEPHONE CO., INC.												UTILITY

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION OF REVISION	DATE	MADE BY	APPROVED BY

MADE BY: BBB DATE 2-10-82  
CHECKED BY: \_\_\_\_\_ DATE \_\_\_\_\_

DR. RT - DRAINAGE RIGHT  
DIT. RT - DITCHING RIGHT  
CH. RT - CHANNEL RIGHT  
DRIVE RT - DRIVE RIGHT  
CUL. RT - CULVERT RIGHT  
Ⓞ - DEMOLITION OR REMOVAL  
Ⓜ - WATER SOURCES

----- PRESENT R.O.W.  
/// --- /// TAKING WITHOUT ACCESS  
/// P --- /// TAKING WITHOUT ACCESS ALONG PROPERTY LINES  
----- TAKING WITH ACCESS  
(P) PERMANENT EASEMENT  
(T) TEMPORARY EASEMENT

LEGEND

----- CONST. EASE. --- CONST. EASEMENT  
--- SR --- SR --- SLOPE RIGHTS  
P --- P --- PROPERTY LINE  
--- Δ --- Δ --- TOP OF CUT  
--- O --- O --- TDE OF SLOPE

APPROVED Thomas P. Hayes DATE 2-16-82  
CHIEF OF PLANS & TITLES

PROJECT WAITSFIELD  
NO. BRZ 1448(8)  
SHEET 4 OF 7

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