

INDEX OF SHEETS  
1) TITLE SHEET

2) Quantity Sheet  
3) Plan  
4) Profile  
5) Superstructure Details  
6) Abutment Details  
7) Reinforcing Steel Schedule  
8-10) Roadway X-Sections  
11-13) Channel X-Sections  
Standards

**RECORD PLANS-MATERIAL SUPPLIERS**

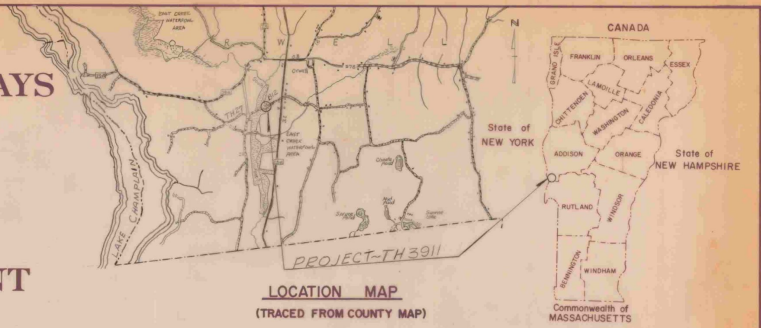
**CONTRACTOR-JOHN NORTON, LUDLOW, VT.**  
**CONTRACT DATED-14 SEPTEMBER 1978**  
**CONSTRUCTION BEGAN-3 OCTOBER 1978**

**CONSTRUCTION SUSPENDED-9 JANUARY 1979 RESUMED-9 MAY 1979**  
**CONSTRUCTION COMPLETED-11 MAY 1979 ACCEPTED-24 MAY 1979**  
**RESIDENT ENGINEER-EUGENE A. ORVIS RECORD PLANS-GEORGE J. ABAIR**

**GRANULAR BACKFILL FOR STRUCTURES, SUB-BASE OF GRAVEL-  
ORWELL SAND AND GRAVEL, ORWELL, VT.**

**CONCRETE-J.P. CARRARA & SONS, WALLINGFORD, VT.**  
**STEEL PILING-BETHLEHEM STEEL CORP., BETHLEHEM, PENNSYLVANIA**  
**REINFORCING STEEL-K. ROSS BUILDING SUPPLY CENTER, LEBANON, N.H.**

**STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS**



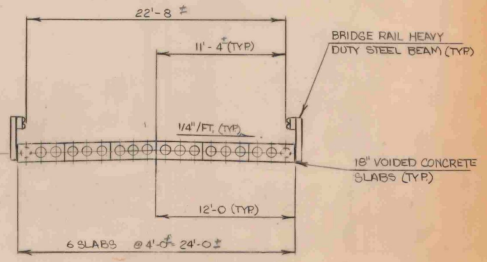
**PROPOSED IMPROVEMENT  
BRIDGE PROJECT**

**TOWN OF ORWELL  
COUNTY OF ADDISON**

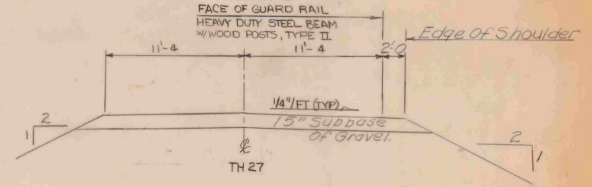
**ROUTE NO: TH #27 CL. III BRIDGE NO: 12**

**PROJECT LOCATION:** PROJECT BEGINS AT A POINT APPROXIMATELY 0.25 MILES WESTERLY OF INTERSECTION OF TH #27 & VT. RTE. 22A AND EXTENDS 150' ALONG TH #27.  
**PROJECT DESCRIPTION:** THE PROJECT SHALL CONSIST OF REMOVAL OF EXISTING STRUCTURE, CONSTRUCTION OF A NEW PRESTRESSED CONCRETE VOIDED SLAB BRIDGE AND NECESSARY ROADWAY AND CHANNEL WORK.

LENGTH OF STRUCTURE :	46.0 FEET
LENGTH OF PARTICIPATION ROADWAY :	104.0 FEET
LENGTH OF NON-PARTICIPATION ROADWAY :	- FEET
LENGTH OF PROJECT :	150.0 FEET



**TYPICAL BRIDGE SECTION**



**TYPICAL ROADWAY SECTION  
NTS**

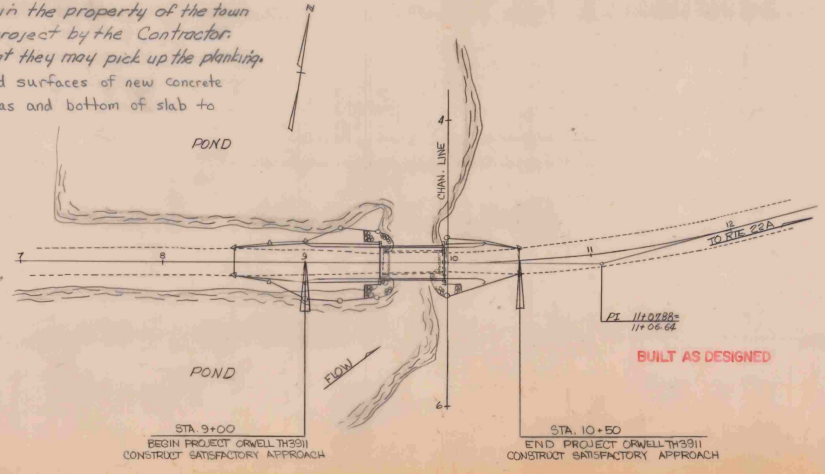
**GENERAL NOTES:**

- See SCB-DI-75 for additional General Notes. Notes 4, 7, 13, 14, & 16 are applicable.
- The top portion of the existing stone abutments to be removed that fall within the limits for structure excavation shall be paid for as Structure Excavation & the remainder shall be paid for as Unclassified Channel Excavation. Limits are as shown on X-sections.
- Where good gravel is encountered in bridge approaches it shall not be excavated & replaced but shimmed to attain finish grade.
- Turf establishment shall be as directed by the Engineer & subsidiary to other items.
- The existing bridge planking shall remain the property of the town & shall be removed & stockpiled near the project by the Contractor. The Contractor shall notify the town so that they may pick up the planking.
- Water Repellent shall be applied to all exposed surfaces of new concrete abutments and wingwalls, and to top of deck, fascias and bottom of slab to drip notch.

**NOTE: ANY FURTHER INFORMATION CONCERNING FINAL QUANTITIES, AMOUNTS OR OTHER DETAILS RELATIVE TO THIS PROJECT MAY BE FOUND IN EITHER THE FIELD BOOKS OR THE ESTIMATE FILE.**

**CONVENTIONAL SIGNS**

COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---
POINT OF ACCESS	---
FENCE LINE	---
STONE WALL	---
GRAVELLED 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	---



**PLAN  
SCALE 1" = 40'**

SUBMITTED BY ORDER OF THE STATE HIGHWAY BOARD  
APPROVED: *S. J. Gage* DATE: 7/31/78  
CHIEF ENGINEER

PROJECT ORWELL TH 3911  
SHEET 1 OF 19 SHEETS

### EARTHWORK

V.C.	% GRD	STATION	GRADES		CORR. V.C.	DIST.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.	AREA	CU. YDS.
			ELEVATION ON TAN.	ELEVATION ON V.C.										
		8+50	296.00											
		+75	296.43											
		9+00	296.85											
		+25	297.28											
		+50	297.70											
		+52	297.74											
		+98	298.51											
		10+00	298.55											
		+25	298.98											
		+50	299.40	299.59	+0.19									
		+75	300.60											

### BRIDGE QUANTITY SHEET

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS  
BRIDGE DIVISION

NO.	ITEM	UNIT	QUANTITY BREAKDOWN						TOTAL	FINAL
			ABUT. 1	ABUT. 2	SUPER- STRUCTURE	ROADWAY	CHANNEL			
202.20	Removal of Existing Superstructure	Ea			1				1	1
203.15	Common Excavation (Est.)	Cy				50			50	66
203.27	Unclassified Channel Excavation	Cy					50		50	90
203.30	Earth Borrow (Est.)	Cy				50			50	0
204.25	Structure Excavation	Cy	20	20					40	40
204.30	Granular Backfill for Structures	Cy	15	15					30	23
301.15	Subbase of Gravel	Cy				200			200	196
501.25	Concrete, Class B	Cy	15	15					30	23.88
504.10	Furnishing Equip. for Driving Piles	L.S.	Req.	Req.					1	1
205.15	Steel Piling (HP 12 X 53)	Lf	220	200					420	405
507.15	Reinforcing Steel	Lb	995	985					1980	1999
510.20	Pre-stressed Concrete Member (15' x 4' 0" x 46" O. Voided Slab)	Ea			6				6	6
514.10	Water Repellent	Gal	0.5	0.5	12				13	13
613.11	Stone Fill, Type II	Cy				70			70	73
617.35	Bridge Piling- Heavy Duty St. Bm.	Lf			92				92	92
621.38	Guard Rail, Heavy Duty Steel Beam w/ Wood Posts, Type II (6' x 3 Post Spacing)	Lf				190			190	198

BRIDGE  AT STATION  9+75  
LOCATION  TH 27 OVER EAST

Checked By G. Hopkins  
SUPERVISOR W. TRIPP

ORWELL  
BR OF

PROJECT NO. TH 3911  
SHEET NO. 2 OF 19

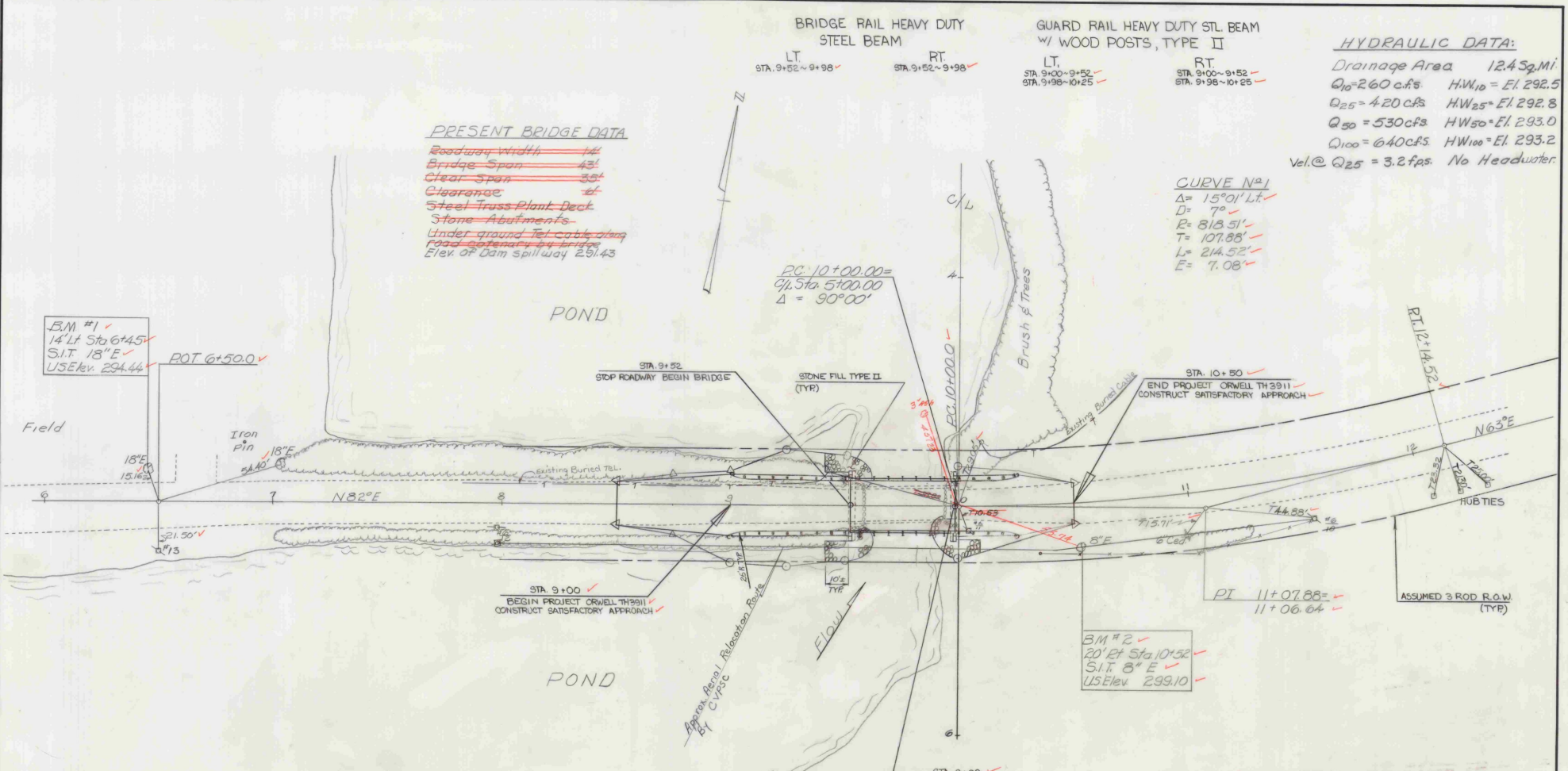
BRIDGE RAIL HEAVY DUTY  
STEEL BEAM  
LT STA. 9+52 ~ 9+98  
RT STA. 9+52 ~ 9+98

GUARD RAIL HEAVY DUTY STL BEAM  
w/ WOOD POSTS, TYPE II  
LT STA. 9+00 ~ 9+52  
RT STA. 9+98 ~ 10+25

HYDRAULIC DATA:  
Drainage Area 12.4 Sq. Mi.  
Q<sub>10</sub> = 260 cfs HW<sub>10</sub> = El. 292.5  
Q<sub>25</sub> = 420 cfs HW<sub>25</sub> = El. 292.8  
Q<sub>50</sub> = 530 cfs HW<sub>50</sub> = El. 293.0  
Q<sub>100</sub> = 640 cfs HW<sub>100</sub> = El. 293.2  
Vel. @ Q<sub>25</sub> = 3.2 fps. No Headwater.

PRESENT BRIDGE DATA  
~~Roadway Width 14'~~  
~~Bridge Span 43'~~  
~~Clear Span 35'~~  
~~Clearance 4'~~  
~~Steel Truss Plant Deck~~  
~~Stone Abutments~~  
Under ground Tel. cable along  
road - 24' from centerline  
Elev. of Dam spillway 291.43

CURVE No 1  
Δ = 15°01' LT.  
D = 7°  
R = 818.51'  
T = 107.88'  
L = 214.52'  
E = 7.08'

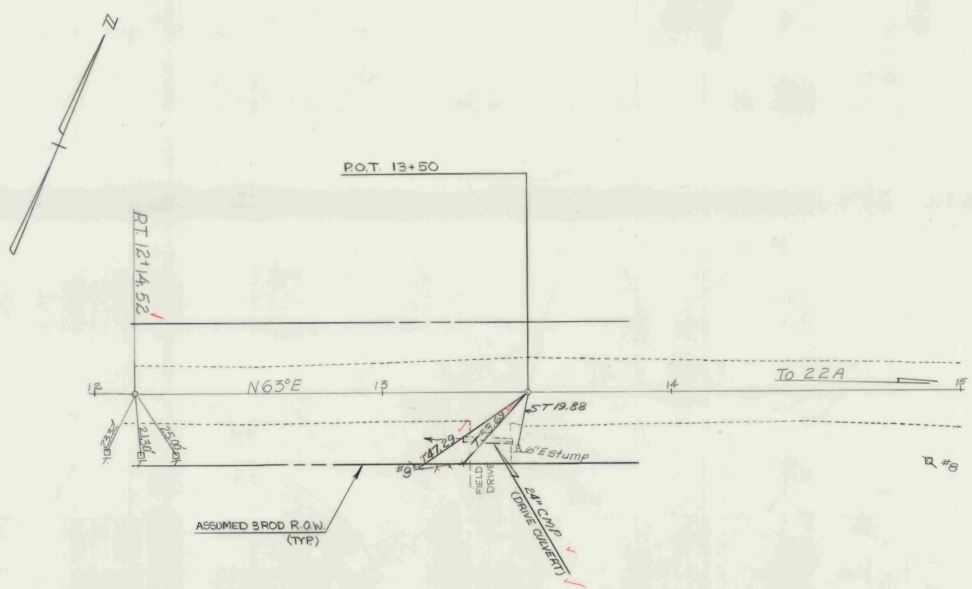


B.M. #1 ✓  
14' Lt Sta. 6+45 ✓  
S.I.T. 18" E ✓  
USE Elev. 294.44 ✓  
ROT 6+50.0 ✓

B.M. #2 ✓  
20' Rt Sta. 10+52 ✓  
S.I.T. 8" E ✓  
USE Elev. 299.10 ✓

<b>STATE OF VERMONT</b>	
<b>DEPARTMENT OF HIGHWAYS</b>	
TOWN OF ORWELL	Bridge No. 12
HIGHWAY NO. TH 27 93	Log Sta.
TH No 27 OVER EAST CREEK	Surv. Sta. 9+75
20 Scale: PLAN	
Surv. by Fantoni	Drawn by G.E. Hopkins
Checked by D.E. Lathrop date 8/78	Bridge Design Supervisor W.B. Tripp date 8/78
PROJECT ORWELL	PROJECT NO. T.H. 3911
Bridge Sheet No.	Sheet 3 of 19

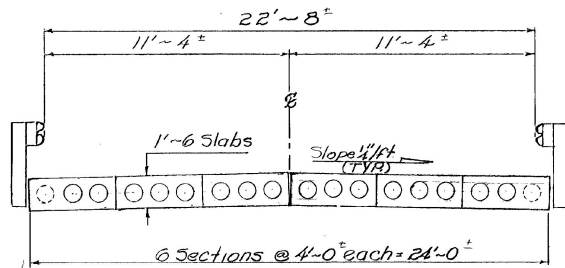
PLAN  
 DATE: 12/14/52  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 PROJECT: [Project Name]  
 SHEET NO.: [Sheet Number]  
 OF [Total Sheets] SHEETS  
 NOTES: [Notes]  
 SCALE: [Scale]



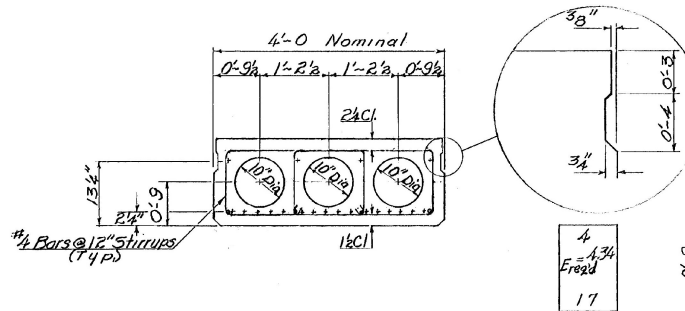
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 CHECKED BY: [Signature]  
 PROJECT: [Project Name]  
 SHEET NO.: [Sheet Number]  
 OF [Total Sheets] SHEETS  
 NOTES: [Notes]  
 SCALE: [Scale]



ORWELL  
 TH 3911  
 TH 2795.512  
 Scale: 1"=20'  
 Sheet 4 of 19

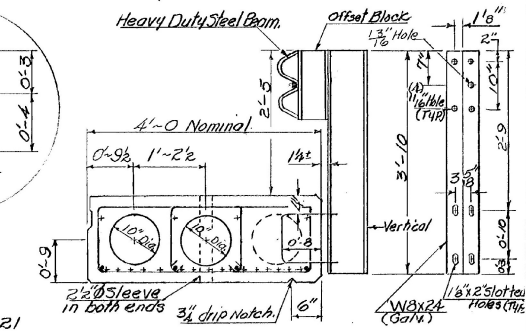


**TYPICAL DECK SECTION**  
Scale: 3/8" = 1'-0"



**TYPICAL INTERIOR BEAM**  
Scale: 1" = 1'-0"

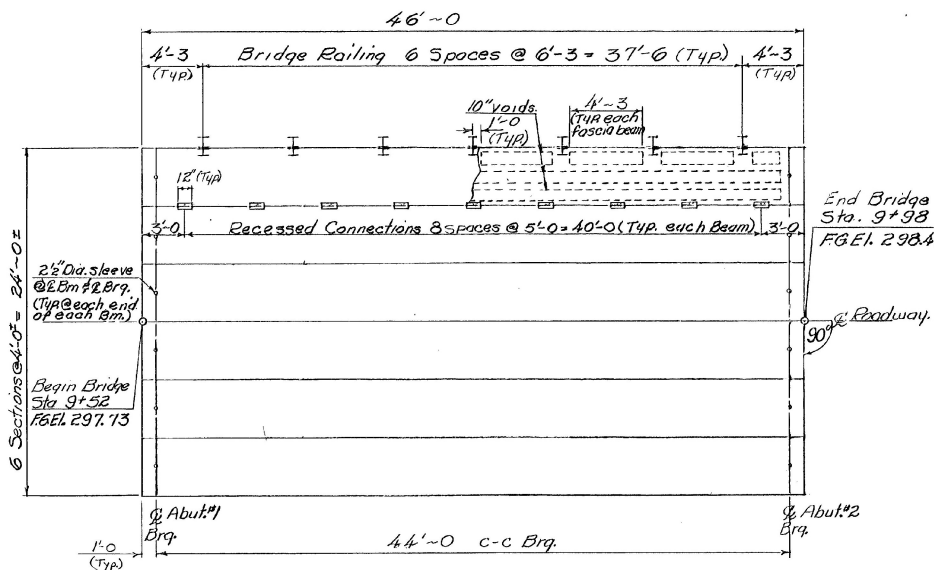
Total strands = 21



**TYPICAL EXTERIOR BEAM WITH FASCIA MOUNTED POSTS**  
Scale 1" = 1'-0"

AASHTO 5111-48

DESIGN DATA: H20 Loading  
LL + I Moment = 197.0 K-FT  
LL + I Reaction = 20.5 Kips  
SDL Moment = 24.2 Kips

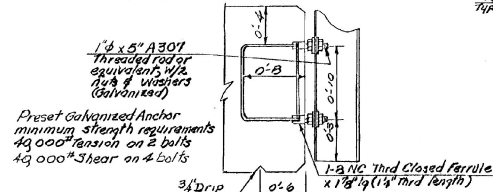


**PLAN**  
Scale: 1/4" = 1'-0"

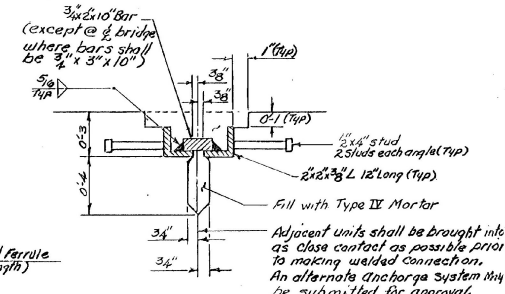
**PRESTRESSED BEAM DATA:**

Minimum Concrete Strength -  $f'_c = 5000$  psi @ 28 days  
Concrete Strength @ Stress Transfer -  $f_{ci} = 4000$  psi.  
Overall Length - 46'-0"  
The Fabricator may at his option alter this suggested design to meet his prestressing operation & material availability. All design computations must be furnished to the department in accordance with Item 510.20, Prestressed Concrete Member (S111-48, 18 x 48)

An alternate system may be submitted to the Department for approval.



**ANCHORAGE FOR FASCIA MOUNTED POSTS**  
N.T.S.



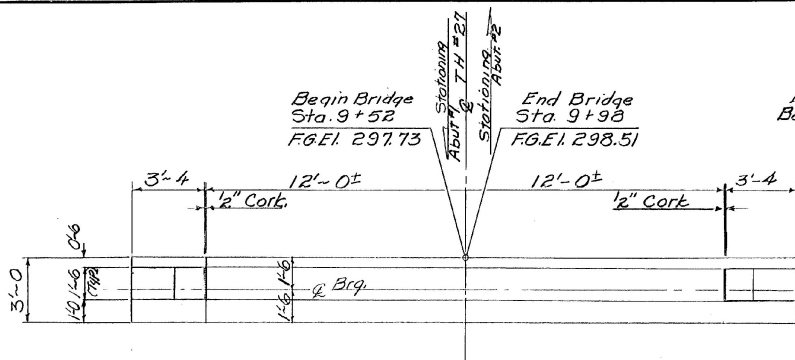
**SECTION RECESSED CONNECTION**  
Scale: 3/8" = 1'-0"

**NOTES**

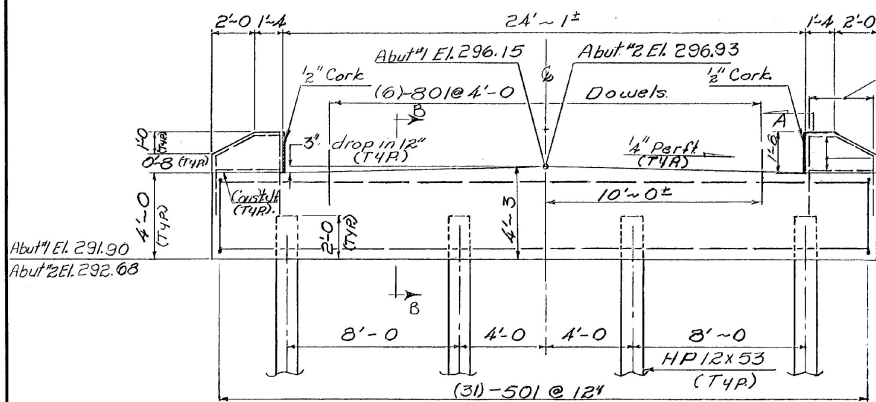
1. For General Notes see sheet N&1.
2. The tops of prestressed beams shall be screed finished.
3. Reinforcing steel in prestressed units shall be grade 40.
4. 1" x 6" x 4'-0" bearing pads shall meet requirements for Item 73101 or 73102.
5. Prestressing steel shall be 1/2" min. dia. 270ksi seven wire strand & shall conform to A.S.T.M. A 416.
6. Design loading - H-20-44.
7. Ends of prestressing strands shall be recessed & grouted as per standard practice.
8. All exposed corners shall be chamfered 3/8".
9. Keys shall be omitted from exterior faces of outside beams.
10. Approximate weight of each prestressed unit is 30,000 lb.
11. 1/2" x 6" x 4'-0" bearing pads shall be used as shims if required in order to compensate for a variation in camber of the beams & thereby provide a more uniform riding surface.
12. 2" x 2" sleeves in each end of each slab shall be filled with mortar type IV alternate

**STATE OF VERMONT**  
**DEPARTMENT OF HIGHWAYS**

TOWN OF	ORWELL	Bridge No.	12
Highway No.	TH 27 Class 3	Log Sta.	
		Surv. Sta.	9775
TH 27 OVER EAST CREEK SUPERSTRUCTURE DETAILS			
Designed by	D.E. LATHROP	Drawn by	G.E. HOPKINS
Checked by	D.E. LATHROP	Bridge Design Supervisor	W.B. TRIPP
PROJECT	ORWELL	PROJECT NO.	TH 3911
		Bridge Sheet No.	Sheet 5 of 19



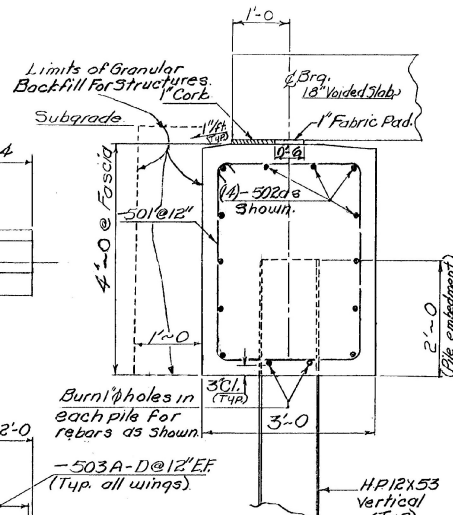
TYPICAL ABUTMENT PLAN  
Scale: 3/8" = 1'-0"



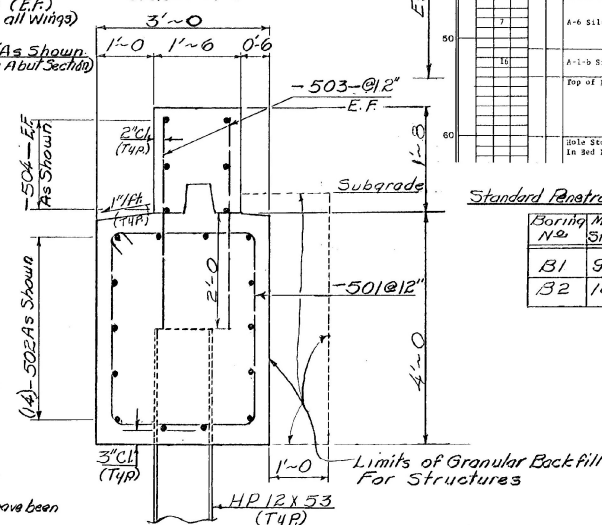
TYPICAL ABUTMENT ELEVATION  
Scale: 3/8" = 1'-0"

NOTES.

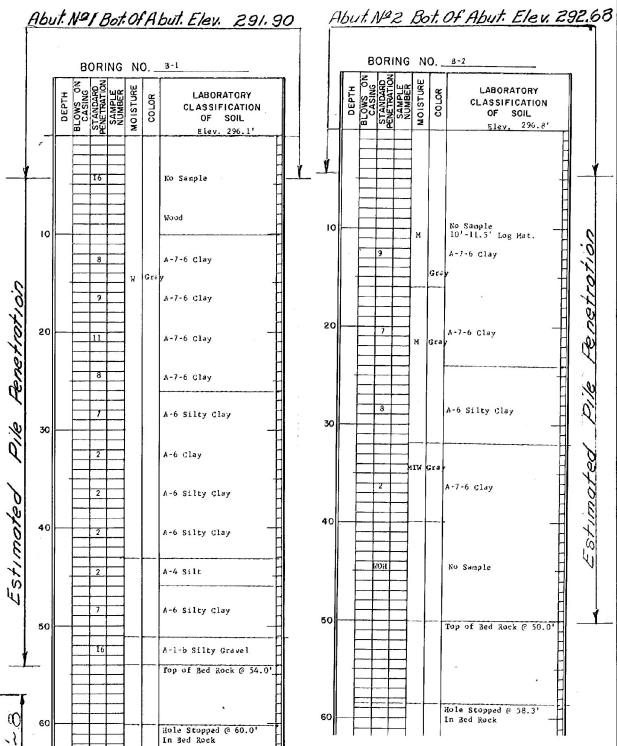
1. Dowels for anchoring beams to abutments shall be either poured in place or drilled & grouted in after concrete is poured. Exact spacing of dowels is dependant upon how well beams fit together.
2. Wings shall not be poured until after beams are set in position for ease of placing beams & because exact width of finished deck is not known.
3. 1'-0" of Granular Backfill For Structures shall be placed below the bottom of each abutment if deemed necessary by the Engineer in the field. Additional Granular Backfill For Structures & Structure Excavation have been included in Plan Quantity.
4. Piling design load is 97 kips per pile.
5. Estimated Pile length for Abutment #1 is 35' & Abutment #2 is 50'.



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



SECTION AA  
Scale: 1" = 1'-0"



Standard Penetration Borings

Boring No.	Mainline Station	Offset
B1	9+47	2'
B2	10+03	2'

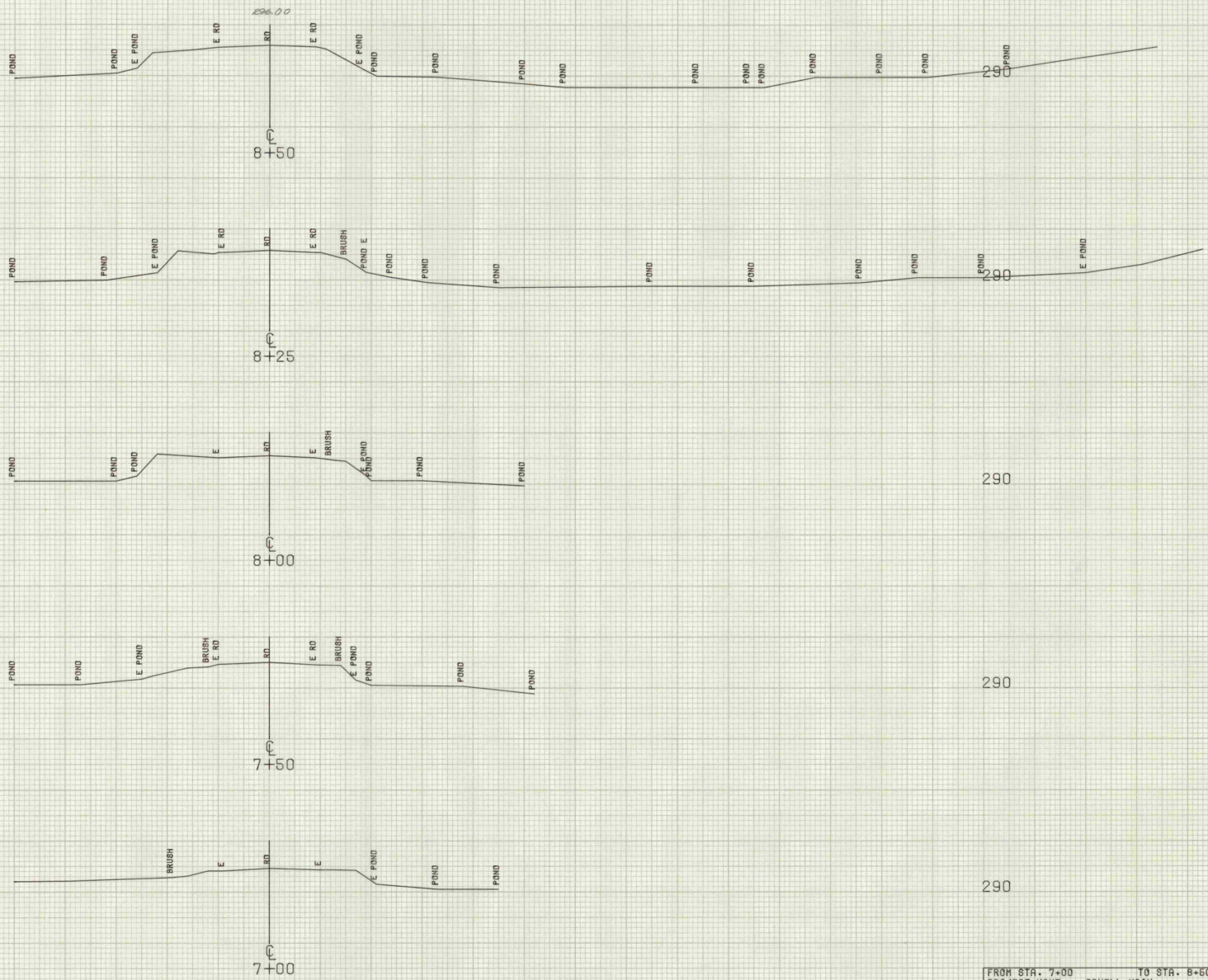
BORING NOMENCLATURE

- STANDARD PENETRATION BORINGS
- SAMPLER OUTSIDE DIAMETER 2"
- SAMPLER INSIDE DIAMETER 1 3/8"
- WEIGHT OF HAMMER 140 LBS
- HAMMER FALL 30"
- ⊕ AUGER BORINGS
- ⊙ ROD SOUNDINGS
- UP UNDISTURBED PISTON SAMPLE
- VS FIELD VANE SHEAR SAMPLE

STATE OF VERMONT  
DEPARTMENT OF HIGHWAYS

TOWN OF	ORWELL	Bridge No.	12
Log Sta.			
HIGHWAY NO.	T.H. 27 Class 3	Surv. Sta.	9775
TH 27 OVER EAST CREEK			
ABUTMENT DETAILS			
Designed by	DE Lahrop	Drawn by	DE Hopkins
Checked by	DE Lahrop	Bridge Design Supervisor	
PROJECT	ORWELL	PROJECT NO.	TH 3911
Bridge Sheet No.		Sheet	6 of 19

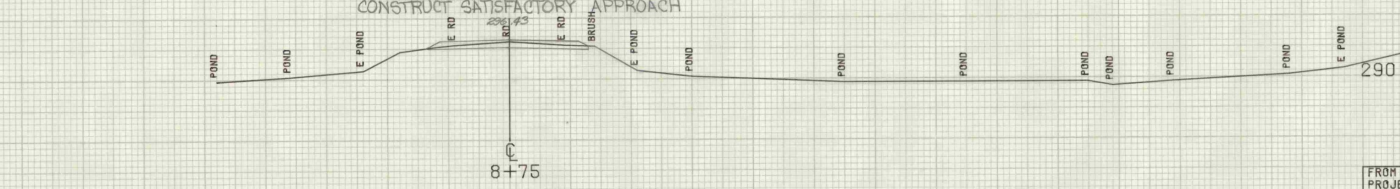
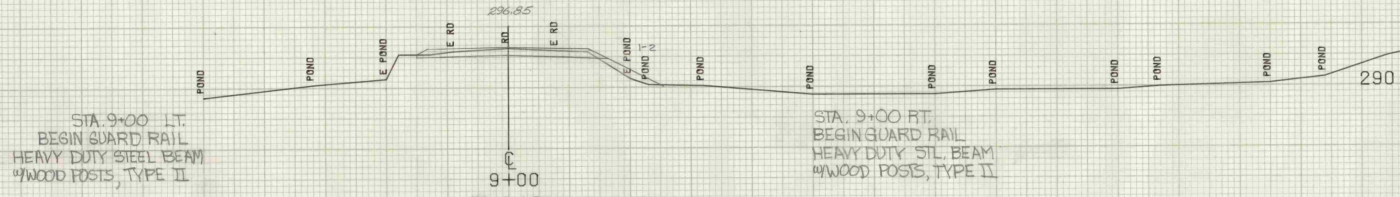
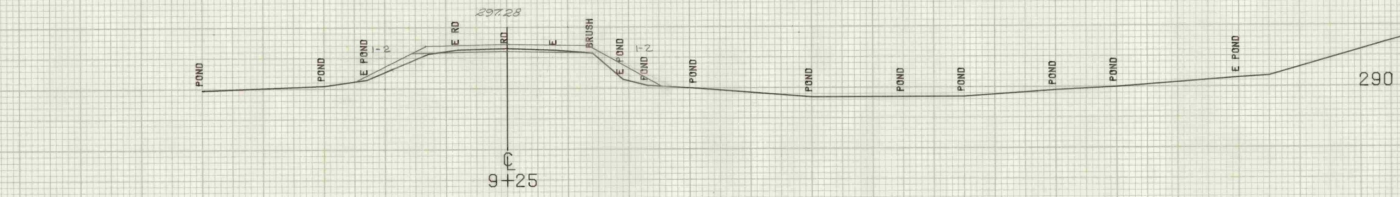
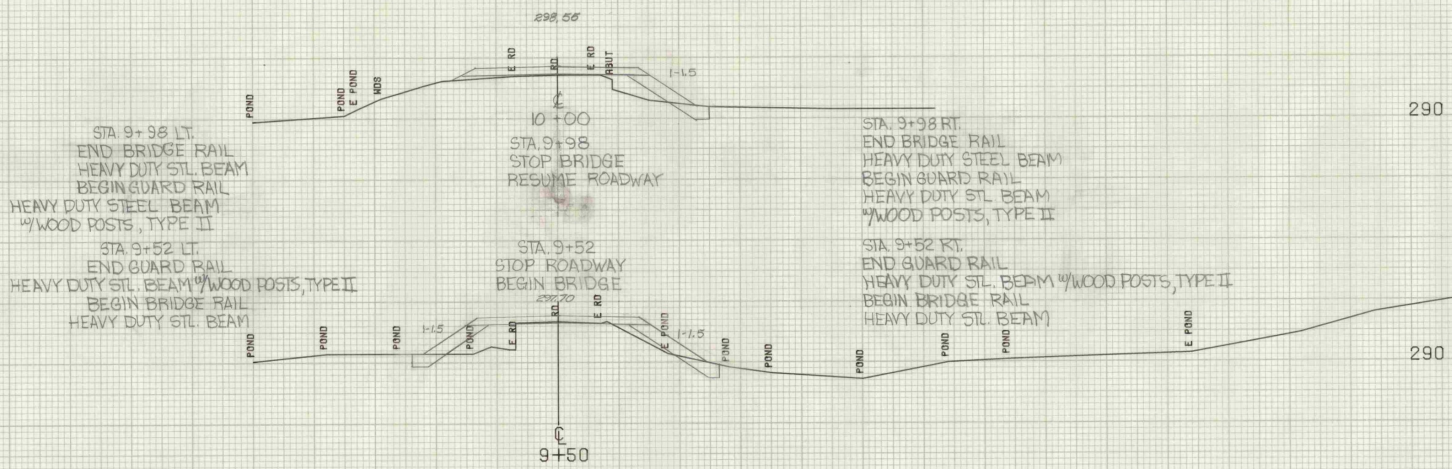




FROM STA. 7+00 TO STA. 8+50  
 PROJECT NAME ORWELL MAIN  
 NO. TH3911  
 SURVEYED BY FANTONI  
 SHEET 2 OF 19 SHEETS

SCALE 1" = 10 FEET

PLOTTED 07/11/78  
 06/78



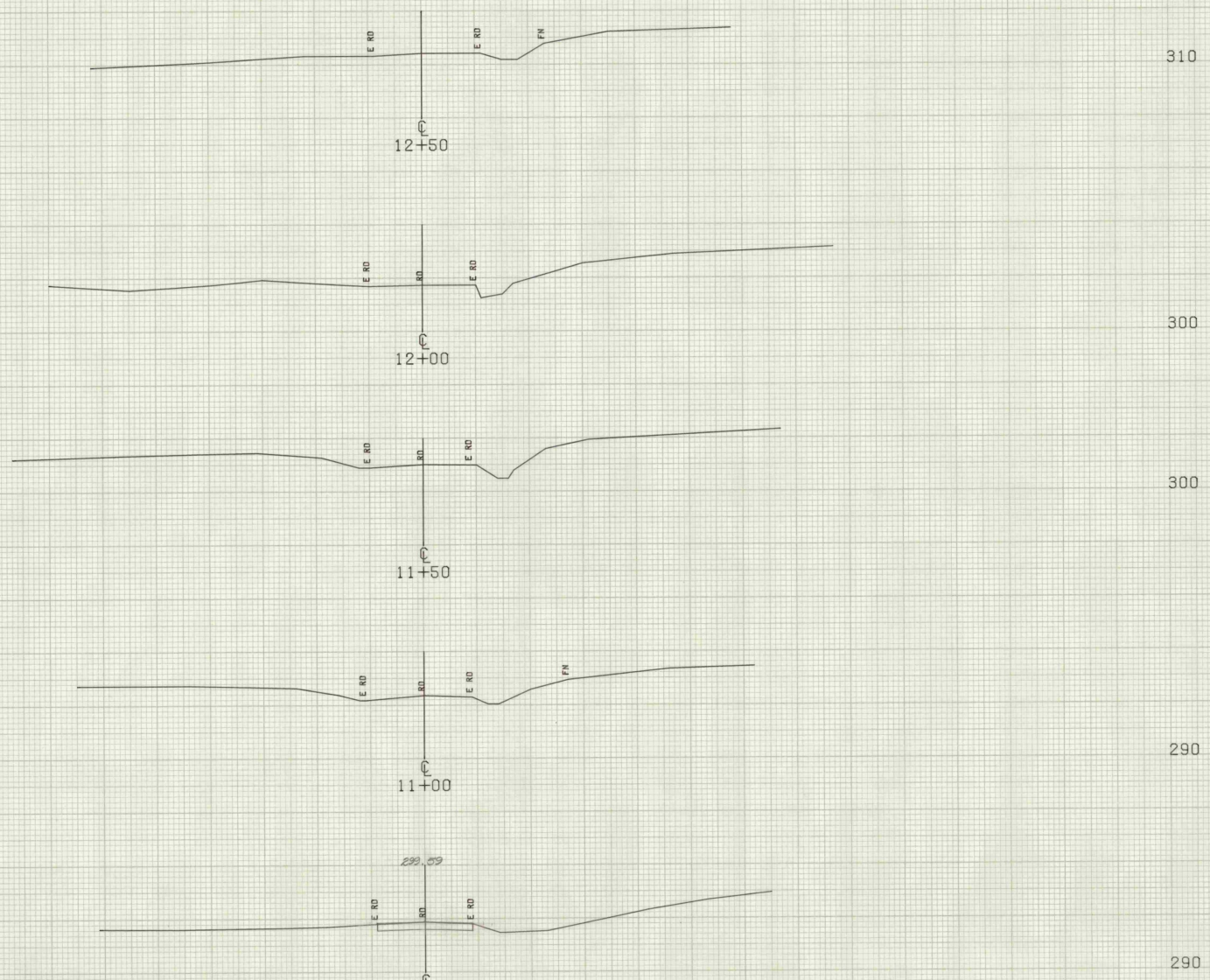
SCALE 1" = 30 FEET

FROM STA. 8+75	TO STA. 10+00
PROJECT NAME	ORWELL MAIN
NO.	TH3911
SURVEYED BY	FANTONI
SHEET 9 OF 19 SHEETS	06/78
	PLOTTED 07/11/78

STA. 10+25 LT  
 END GUARD RAIL  
 HEAVY DUTY STEEL BEAM  
 W/ WOOD POSTS, TYPE II

10+50  
 STA. 10+50  
 END PROJECT  
 ORWELL TH3911  
 CONSTRUCT SATISFACTORY APPROACH

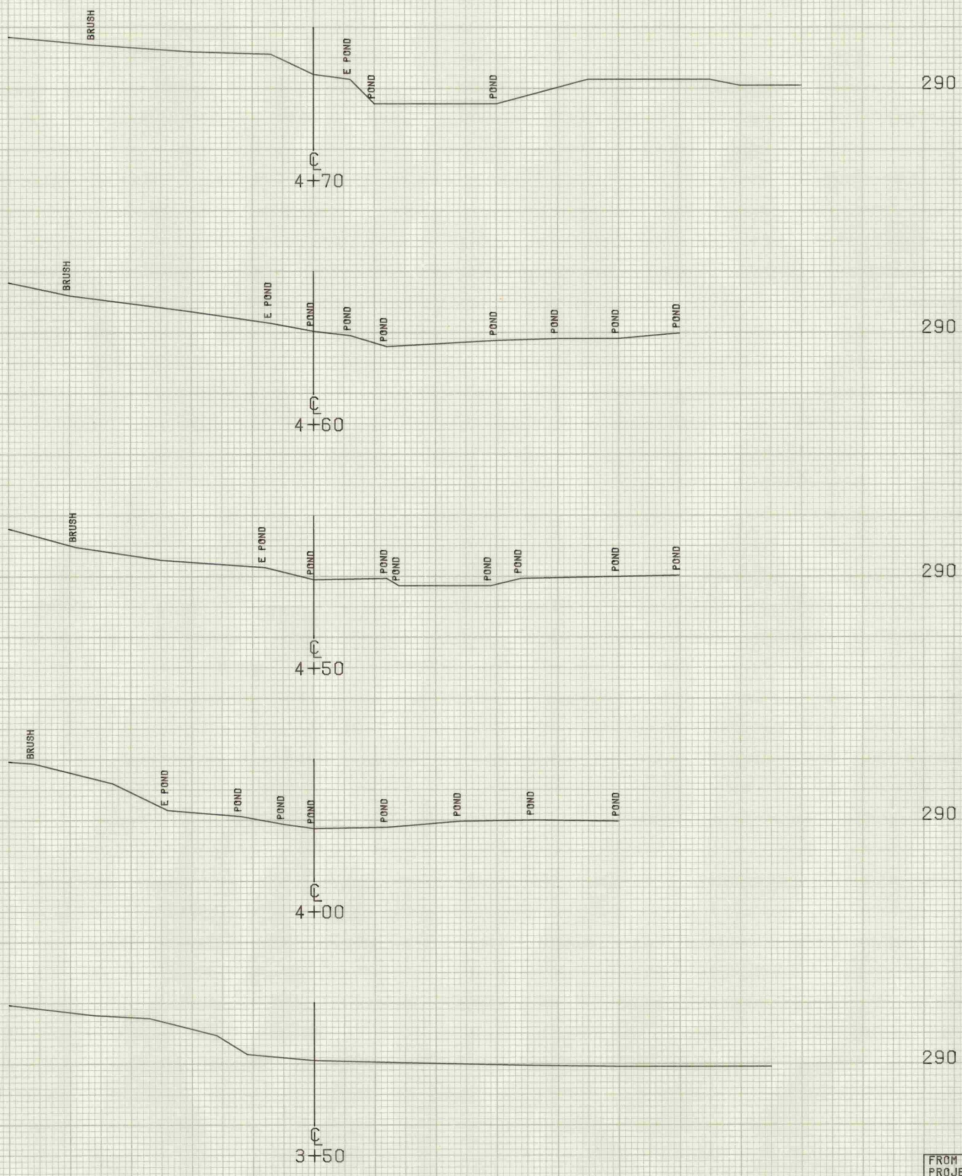
STA. 10+25 RT  
 END GUARD RAIL  
 HEAVY DUTY STL. BEAM  
 W/ WOOD POSTS, TYPE II



310  
 300  
 300  
 290  
 290

SCALE 1" = 10 FEET

FROM STA. 10+50	TO STA. 12+60
PROJECT NAME	ORWELL MAIN
NO.	TH3911
SURVEYED BY	FANTONI
SHEET 10 OF 19	SHEETS
	PLOTTED 07/11/78
	06/78



FROM STA. 3+50 TO STA. 4+70  
 PROJECT NAME DRWELL CHAN  
 NO. TH3911  
 SURVEYED BY FANTONI  
 SHEET // DF // SHEETS

SCALE 1" = 50' FEET

PLOTTED 07/11/78  
 06/78

Sta. 5+25 End Stone Fill, Type II, Abut. No. 152  
 End Unclassified Channel Excavation, Abut. No. 152

Sta. 5+17 End Structure Excavation, Abut. No. 152  
 End Granular Backfill for Structures, Abut. No. 152

Sta. 5+05 Begin Stone Fill, Type II, Abut. No. II

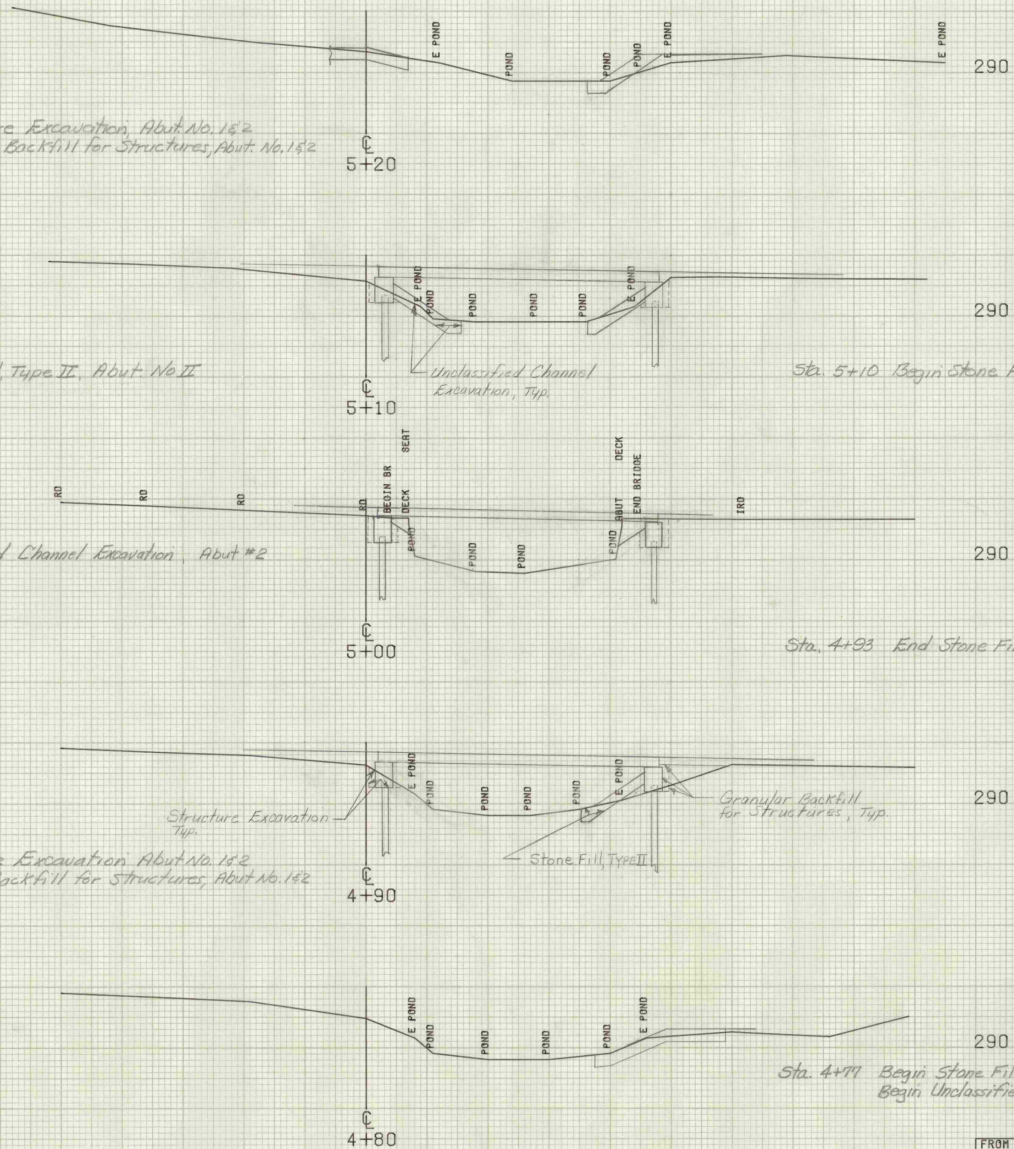
Sta. 5+10 Begin Stone Fill, Type II, Abut. No. 1

Sta. 4+91 Begin Unclassified Channel Excavation, Abut. #2

Sta. 4+93 End Stone Fill, Type II, Abut. No. 1

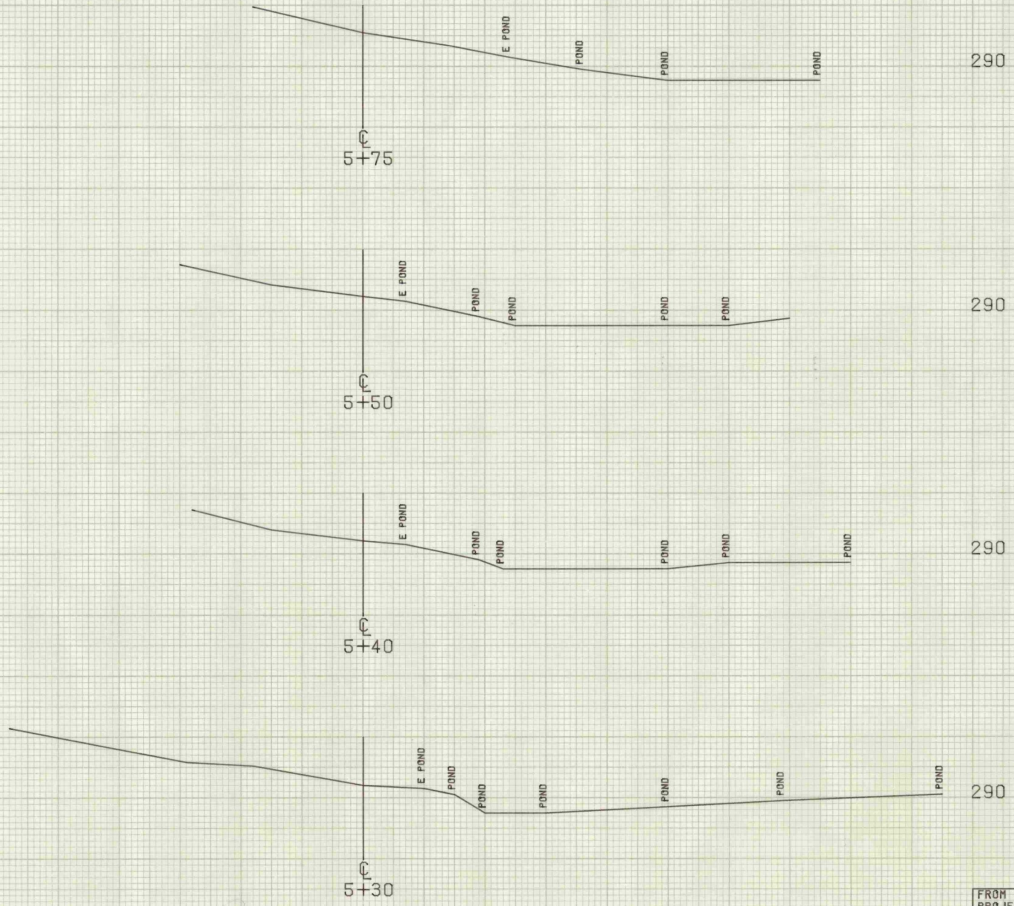
Sta. 4+83 Begin Structure Excavation, Abut. No. 152  
 Begin Granular Backfill for Structures, Abut. No. 152

Sta. 4+77 Begin Stone Fill, Type II, Abut. No. 1  
 Begin Unclassified Channel Excavation



FROM STA. 4+80	TO STA. 5+20
PROJECT NAME	ORWELL CHAN
NO.	TH9911
SURVEYED BY	FANTONI
SHEET 12 OF 19	SHEETS
	PLOTTED 07/11/78
	06/78

SCALE 1" = 10 FEET



FROM STA. 5+30	TO STA. 5+75
PROJECT NAME	ORWELL CHAN
NO.	TH3911
SURVEYED BY	FANTONI
SHEET 3 OF 19 SHEETS	PLOTTED 07/11/78
	08/78

SCALE 1" = 10 FEET

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 ORIGINAL DRAWING  
 REVISIONS  
 DATE: \_\_\_\_\_ BY: \_\_\_\_\_

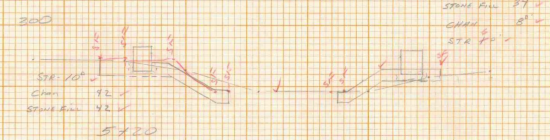
DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
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 DATE: \_\_\_\_\_ BY: \_\_\_\_\_

4673 BUTT STAKE FILL AREA 182

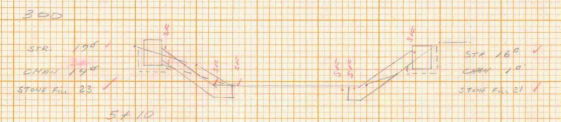
300



5425 BUTT STAKE FILL & CHANNEL EXCAVATION



5417 BUTT STRUCTURE EXCAVATION



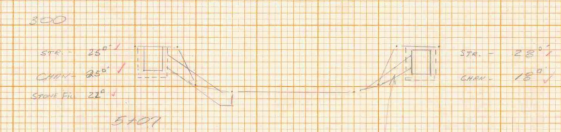
STRUCTURE ELEVATION

4183	4187	422	4400	102	110	112
4183	4187	422	4400	102	110	112
4183	4187	422	4400	102	110	112
4183	4187	422	4400	102	110	112
4183	4187	422	4400	102	110	112
4183	4187	422	4400	102	110	112
4183	4187	422	4400	102	110	112
4183	4187	422	4400	102	110	112
4183	4187	422	4400	102	110	112
4183	4187	422	4400	102	110	112

300

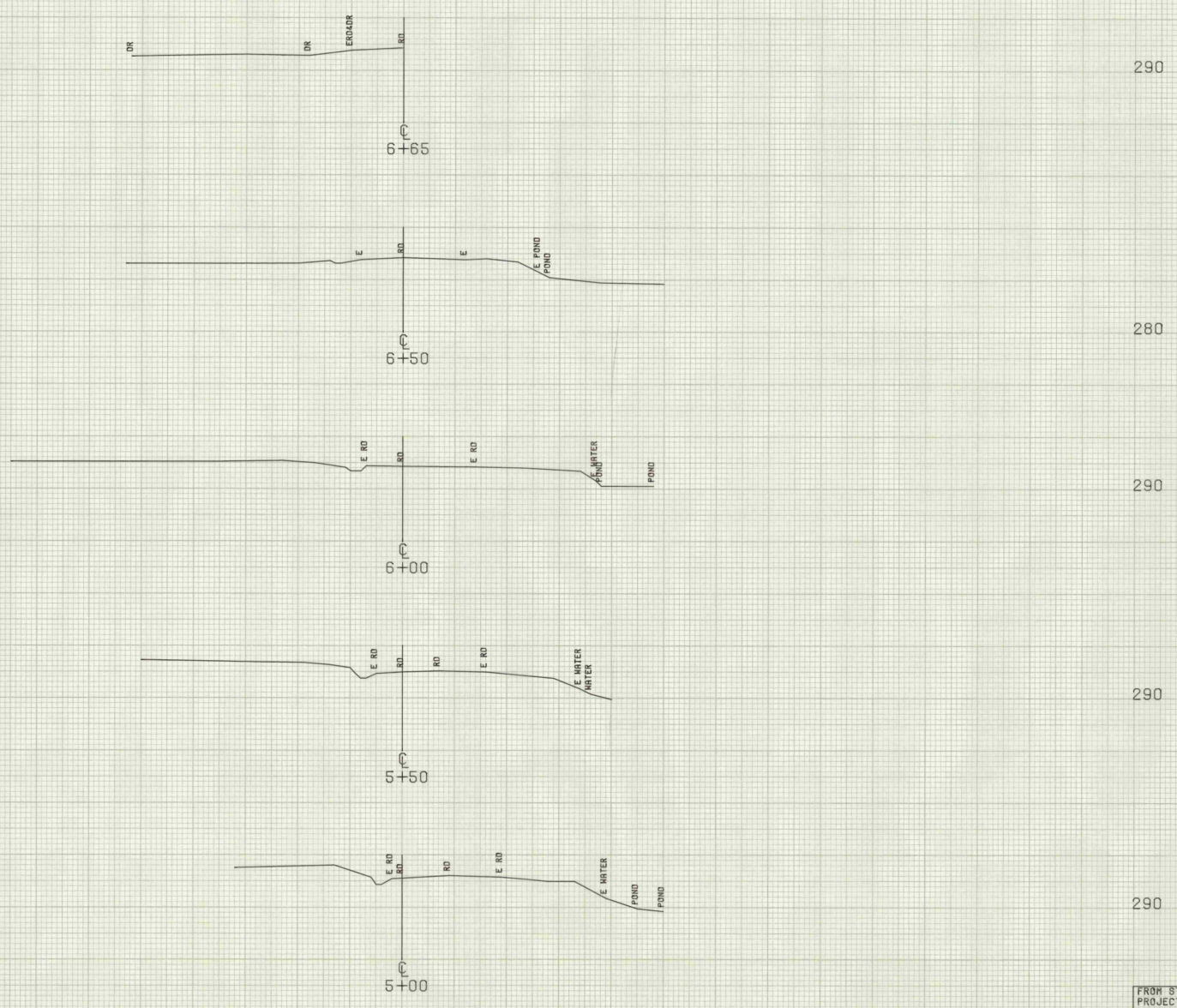


5410 BUTT STAKE FILL



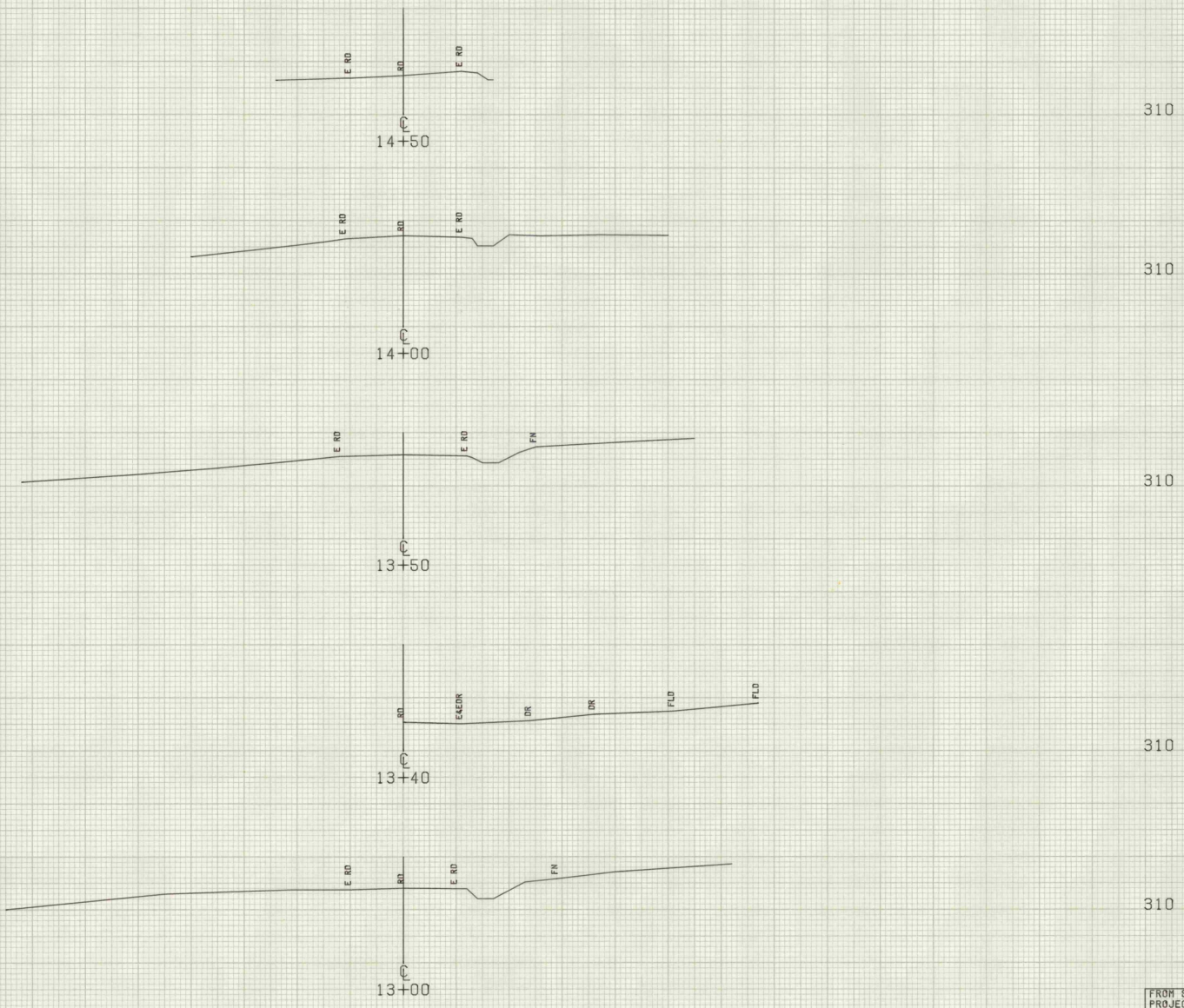
STAKE FILL

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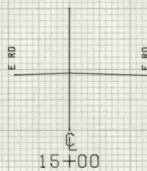
SCALE 1" = 10' FEET

FROM STA. 5+00	TO STA. 5+65
PROJECT NAME	ORWELL MAIN
NO.	TH3911
SURVEYED BY	FANTONI
SHEET OF	PLOTTED 07/11/78
	06/78
	SHEETS



SCALE 10 FEET

FROM STA. 13+00	TO STA. 14+50
PROJECT NAME	ORNELL MAIN
NO.	TH3911
SURVEYED BY	FANTONI
SHEET OF	06/78
SHEETS	PLOTTED 07/11/78



310

SCALE 1" = 10 FEET

FROM STA. 15+00	TO STA. 15+00
PROJECT NAME	ORWELL MAIN
NO.	TH9911
SURVEYED BY	FANTONI
SHEET OF	SHEETS
	PLOTTED 07/11/78
	06/78



Vermont Agency of  
Transportation DONE  
PHASE 2-INTERSTATE  
#122302-01

INITIALS Hanger 2963 DONE

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