

FED. ROAD DIST. NO.	STATE	U.S.W.P.M. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	W.P.M.H. 267-J	1	

INDEX OF SHEETS

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2. Typical Section & Summary of Quantities..
3. List of Structures
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5. Sta 2495'
- 6 & 6a. Sta 2559'
- 7 & 8. Sta 2660'
9. Plan of Detour West of La Junta
10. Concrete Irrigation Structures
11. Standard Concrete Box Culvert M-103-D
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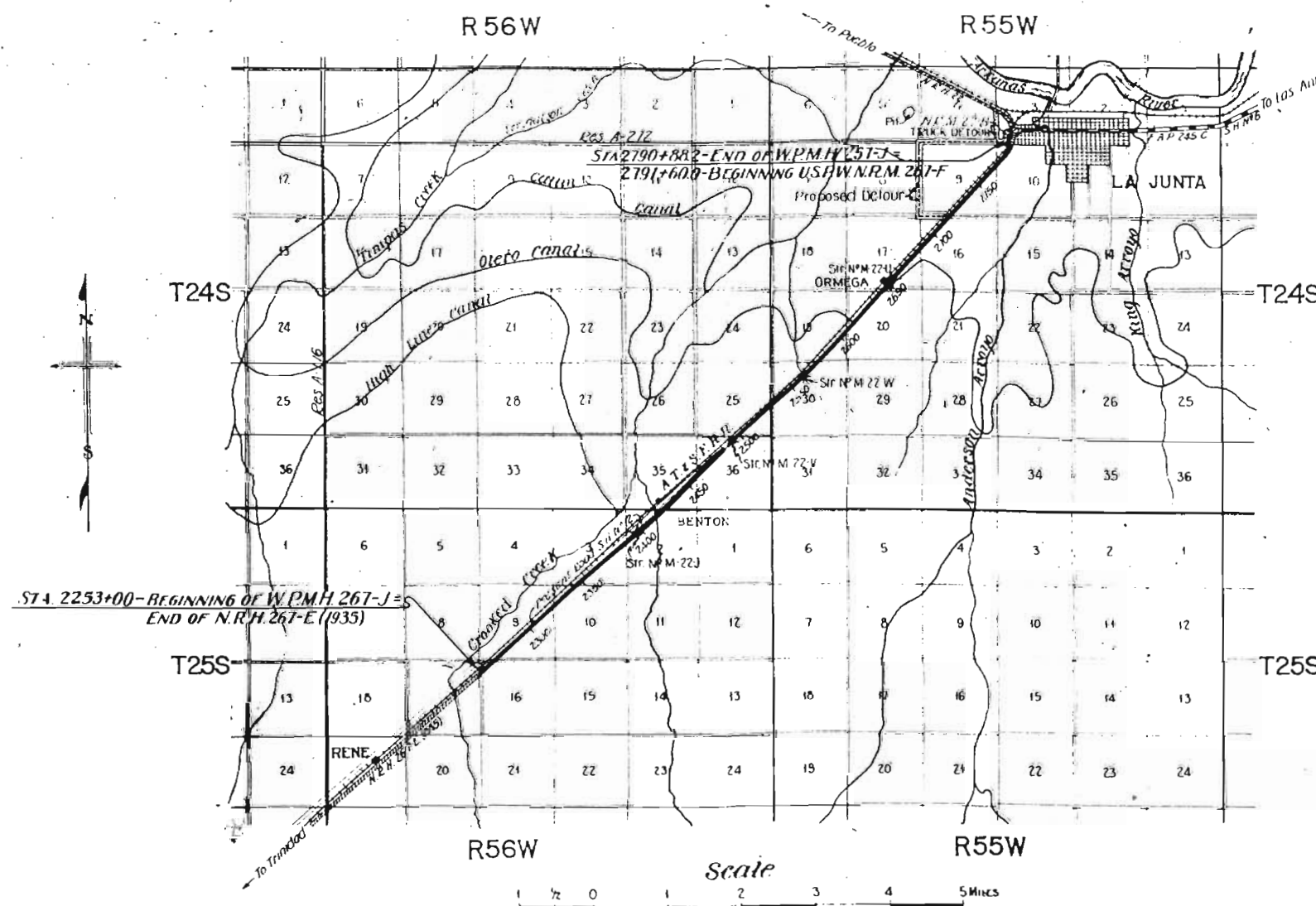
COLORADO STATE HIGHWAY DEPARTMENT PLAN AND PROFILE OF PROPOSED U.S. WORKS PROGRAM HIGHWAY PROJECT NO. W.P.M.H. 267-J STATE HIGHWAY NO. 12 ³⁵⁰ OTERO COUNTY

SCALES ON ORIGINAL TRACINGS

ON PLAN, 1 IN. = 100 FT.
ON PROFILE 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT 53,688.2 FT. = 10.168 MI.
NET LENGTH OF PROJECT

CONVENTIONAL SIGNS

Center Line of Survey
Right-of-Way Line
Township Line
Section Line
One Quarter Section Line
Barbed Wire Fence
Wire Cable Guard Fence
Railroads
Telephone Poles
Present Road



NOTE

It is recommended that bidders on this Project go over the plan details with one of the following field representatives of this department.
J.D. Bell, Division Engineer, Pueblo, Colorado.
J.C. Webber, Resident Engineer, Rocky Ford, Colorado.

RECOMMENDED FOR APPROVAL 10/29/30

J. H. H. H.
ASSISTANT ENGINEER

APPROVED
Chas. D. H.
STATE HIGHWAY ENGINEER

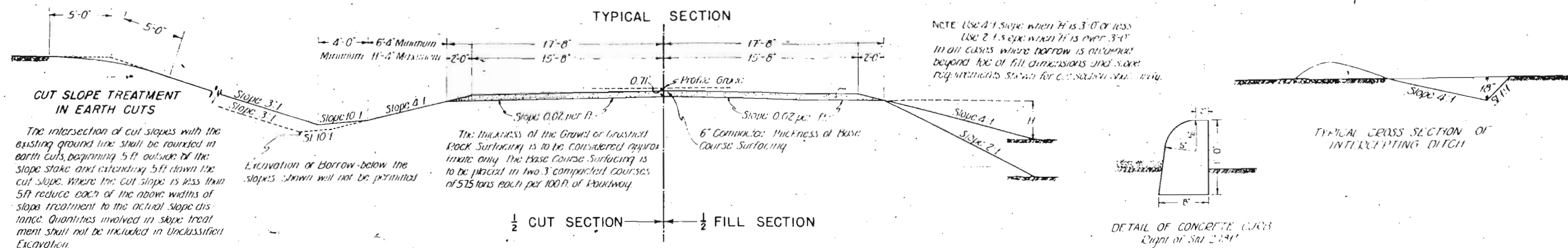
RECOMMENDED FOR APPROVAL

DIST. ENG. BUREAU PUBLIC ROADS
RECOMMENDED FOR APPROVAL

CHIEF ENG. BUREAU PUBLIC ROADS
APPROVED

DIRECTOR BUREAU PUBLIC ROADS

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES



FENCING REQUIREMENTS

STATION	SIDE	REMOVE FENCE (Lin. Ft.)	BUILD FENCE (Lin. Ft.)	REMOVE ORNAMENTAL FENCE (Lin. Ft.)
2253+00-2269+00	R/L	2040		
2253+00-2400+00	R/L		26173	
2320+40-2343+48	R/L	4X 550	200	
2400+00	R/L		15,402	
2400+00-2460+88	R/L			
2424+40-2461+60	3X	470	24,025	
2461+44-2592+34	R/L			
2502+06-2578+90	R/L	5X 1330	26,519	
2589+46-2720+20	L/R			
2612+78-2679+38	L/R	2040		
2693+12	X	160		
2721+04	X	130		
2721+44-2725+51	R		407	
2720+79-2724+77	L		398	
2724+77-2737+32	L		1255	
2725+10	X	130		
2725+51-2735+45	R		994	
2735+21-2735+45	R		31	
2737+32	L		65	
2735+21-2754+30	R		1,912	
2736+80-2742+60	L	580		
2742+60-2748+80	R	550		
2748+00-2774+30	R	2670		
2753+80-2754+33	R	70		
2754+20-2754+33	R		13	
2754+20-2765+10	R		1090	
2756+100-2756+10	R	50		
2759+45-2759+10	R	50		
2761+70-2765+12	R	50		
2765+10-2767+62	R		252	
2766+70	R	40		
2767+62-2772+88	R		526	
2772+88-2773+93	R		105	
2772+90-2774+10	R	190		
2775+09-2780+22	R		517	
2774+85-2781+30	R	620		
2777+80-2778+00	R	10		
2779+30	R	20		
2780+30	R	30		
2780+22-2781+54	R		132	
2781+54-2783+80	R		226	
2782+20-2782+40	R	50		
2782+20-2790+45	R	830		
2783+00-2783+20	R	50		
2783+80	R		19	
2783+80-2790+48	R		668	
Gate Deductions		12740	98205	2592
			291	44
TOTALS			12740	97914
			2548	100

GENERAL NOTES

This Project is to be constructed in accordance with the Standard Specifications of the Colorado State Highway Department adopted August 1, 1935.

All quantities on preliminary plans are to be considered approximate only.

All roadway excavation required to construct this project is to be obtained as indicated on the plans. Quantities involving deepening the limits of the ditch as shown on the Typical Cross Section, either below the Profile as Borrow, or on List of Structures as Unimproved, are to be classified and paid for as Unclassified Excavation. Unimproved areas are to be staked as part of the Original Excavation at least 10 ft. outside of the plans. Slope stakes beyond the limits of the Typical Cross Section are subject to change by the Engineer to fit Unimproved requirements actually encountered on construction.

All curves are to be super-elevated as provided for by the Standard Super-elevation Sheet included with plans.

All poles encroaching on construction are to be moved by owners.

The entire project is to be cleared for the full width of the Right-of-Way and the east thereof included in the limits of plan for clearing and grubbing the entire project.

All corrugated metal pipe cross culverts are to be provided with end headwall on the inlet end, unless otherwise noted on the plans.

The present traveled roadway will be used as a detour for this project from the beginning of project (Sta. 2253+00) to Sta. 2740. The detour route from Sta. 2740 to La Junta with work required by the contractor on detour is shown on Sheet No. 9. Between Sta. 2253 and 2270 where the new construction lies along the present traveled roadway, the contractor shall so prosecute construction that traffic may readily pass over the road. This portion of the project between Sta. 2253 and 2270 shall be constructed as the last part of the construction. Also the contractor shall, at his own expense, construct and maintain in safe condition all temporary approaches to and crossings of intersecting roads.

GATES

STATION	SIDE	TYPE - No.	STATION	SIDE	TYPE - No.
2319+78	R	1	2718+89	L	1
2320+78	L	1	2713+61	R	1
2354+97	R	1	2721+20	R/L	2
2395+03	R	1	2716+00	R	1
2418+39	L	1	2711+74	R	1
2424+00	R	1	2772+00	R	1
2460+19	R	1	2778+04	R	1
2501+00	R	1	2780+35	R	1
2535+50	L	1	2781+08	R	1
2567+95	R	1	2444+61	R/L	2
2698+13	R/L	2	TOTALS		19
2334+34	R	1			6
					1

R.O.W. MARKERS

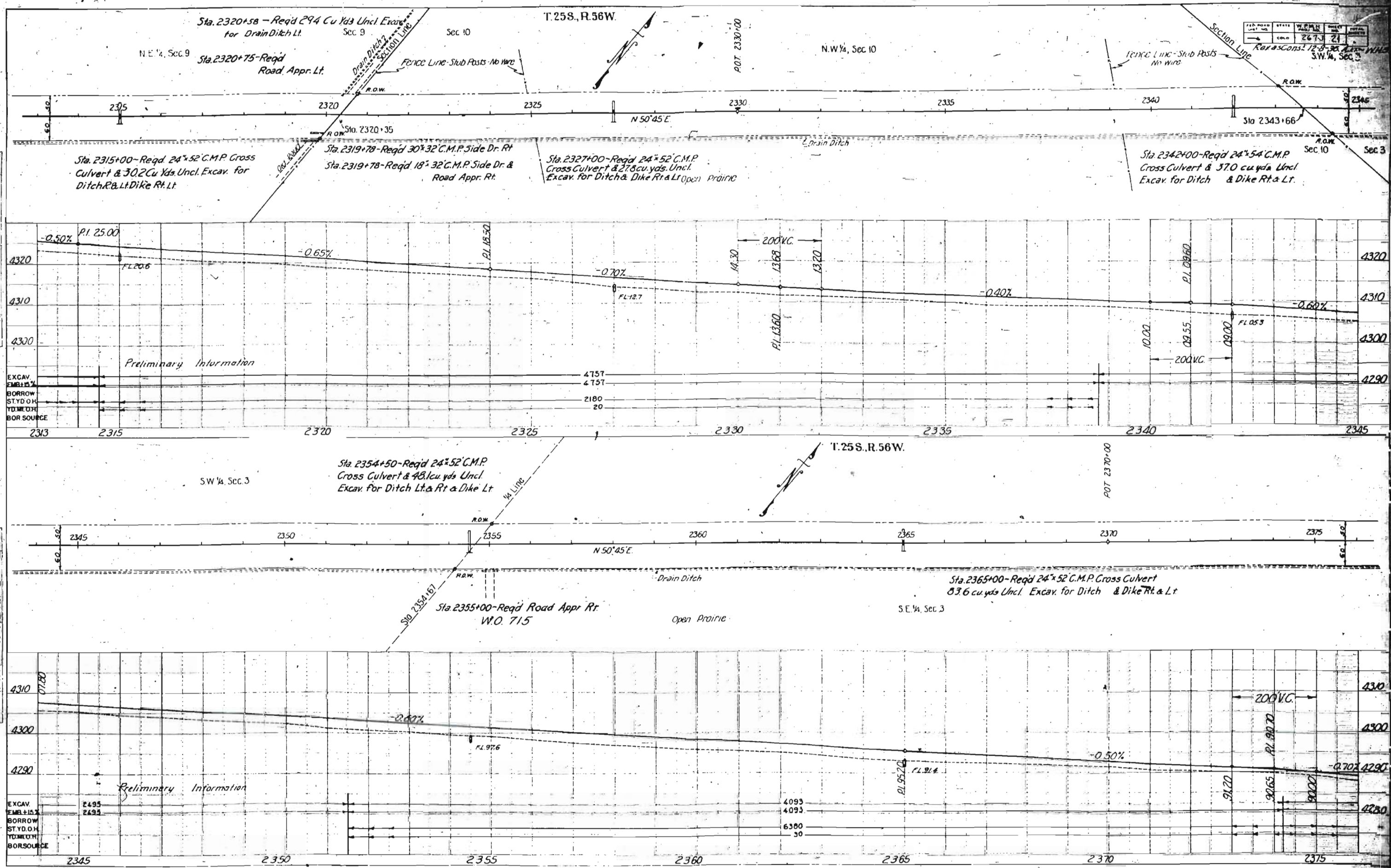
STATION	SIDE	NO.	STATION	SIDE	NO.
2261+76	L	1	2648+69	R	1
2262+87	R	1	2649+97	L	1
2285+23	R	1	2653+27	L	1
2286+37	L	1	2654+07	R	1
2302+77	L	1			
2303+83	R	1			
2319+94	R	1			
2320+11	L	1	2686+98	L	1
2343+10	R	1	2687+91	R	1
2344+25	R	1	2692+93	R	1
2354+23	R	1	2693+46	L	1
2355+07	L	1	2720+21	L	1
2383+80	L	1	2721+45	R	1
2385+01	R	1	2735+20	R	1
2389+07	R	1	2735+47	R	1
2389+90	L	1	2736+78	L	1
2400+00	L/R	4			
2409+00	L/R	4	2754+20	R	1
2423+96	R	1	2754+30	R	1
2424+75	L	1	2755+46	L	1
2424+85	L	1	2756+50	R	1
2425+84	R	1	2773+94	R	1
2461+34	R	1			
2462+07	L	1	2775+07	R	1
2463+53	L	1	2775+38	L	1
2464+76	R	1	2783+75	R	1
2492+00	L	1	2783+25	L	1
2496+91	L	1	2790+37	L	1
2499+82	L	1	2790+50	R	1
2500+50	L	1	2783+73	R	1
2501+55	L	1			
2502+57	R	1			
2503+63	R	1			
2534+63	L	1			
2535+59	L	1			
2539+49	L	1			
2540+56	R	1			
2554+00	L	1			
2570+13	R	1			
2571+06	L	1			
2572+03	L	1			
2572+99	L	1			
2579+33	L	1			
2580+38	R	1			
2589+46	R	1			
2590+43.5	L	1			
2591+39	L	1			
2592+34	L	1			
2677+76	R	1			
2610+71	L	1			
2617+30	L	1			
2618+54	R	1			
2619+91	R	1			
2621+02	L	1			
TOTAL					1

SUMMARY OF CONSTRUCTION QUANTITIES

NO.	DESCRIPTION	UNIT	ROADWAY	BRIDGE Sta. 2402	BRIDGE Sta. 2495	BRIDGE Sta. 2559	BRIDGE Sta. 2660	PROJECT TOTALS
100	Clearing & grubbing trees, shrubs, etc.	Lump Sum						
110	Reinforcing Bars	Lb.						
110	Reinforcing Bars	Lb.						
110	Reinforcing Bars	Lb.						
110	Reinforcing Bars	Lb.						
120	Removing FENCE	Lin. Ft.	12,740					12,740
130	Removing Excavation	Cu. Yd.	147,283.7	1000.2	693.3	260.2	39,572	153,947
130	Unclassified Excavation	Cu. Yd.	177					177
140	Lay Back Excavation & Subgrade	Cu. Yd.	2,595			48.6	116.6	42.7
140	Comp.		17010	1117	233	545	30.5	19,210
140	Not Rock						4098	4098
180	Station Yard Overhaul	Sq. Yd.	233,309					233,309
180	Yard Mile Overhaul	Yd. Mi.	2951.7					2951.7
260	Gravel or Crushed Rock Surfacing	Sq. Yd.	63,573.25					63,573.25
420	Unreinforced Bridge Timber	Lin. Ft.		2,544	1072	1,132	0.528	5,276
420	Treated			63,166	22,158	32,474		117,808
43	Asphalt Bank Wearing Surface	Sq. Ft.		3002	1334	2001		7337
440	Miscellaneous Unreinforced Timber	Mt. Bm.	1.5					1.5
460	Class A Concrete	Cu. Yd.	340.64			54.0	80.5	475.14
460	Class B Concrete	Cu. Yd.	909.5				295	585.95
47	Reinforcing Steel	Lb.	30,746				9070	39,816
48	Structural Steel	Lb.					32,557	32,557
530	15" Corrugated Metal Culvert Pipe	Lin. Ft.	90					90
530	Connecting Band for 15" C.M.P.	Each	2					2
530	18" Corrugated Metal Culvert Pipe	Lin. Ft.	634					634
530	Connecting Band for 18" C.M.P.	Each	3					3
530	24" Corrugated Metal Culvert Pipe	Lin. Ft.	1558					1558
530	Connecting Band for 24" C.M.P.	Each	1					1
530	30" Corrugated Metal Culvert Pipe	Lin. Ft.	196					196
530	36" Corrugated Metal Culvert Pipe	Lin. Ft.	446					446
54	12" Vitrified Clay Culvert Pipe		925					925
59	Relaying Pipe		31					31
600	Treated Timber Piling			993.4	9670			10,663.4
600	Piling Cut-off Treated			5986	2330	209		10,405
730	Concrete Curb		24					24
74	Wire Cable Guard Fence		800					800
76	Barbed Wire Fence with Metal Posts		97,914					97,914
76	Combination Wire Fence with Metal Posts		2548					2548
760	Barbed Wire Gates	Each	19					19
760	Driveway		6					6
760	Walk		1					1
810	Project Marker		1					1
810	Right-of-Way Markers		91					91
830	36" Con. Bands (No. 113)		2					2
890	Drain Pipe (Concrete Floor 3' x 2' 6")			12	4	6	2	22
890	(Timber Floor) 3' x 2' 6"							
900	Pile Posts (No. 84)	Lin. Ft.				371		371
102	Blading and Grading Detour	Lin. Ft.	13					13
115	14"-12" Asphalt (No. 3) Met. Pipe	Lin. Ft.	14					14
99	Wire Cable Ties (No. 184)		76			750		750
X	12" Corrugated Met. Pipe (No. 711)							
	Force Account							
	Obiterating Old Road (No. 713)	Lump Sum	953.64					953.64
	Blasting & Trenching for Piling at Bridge Sta. 2402 (No. 712)			878.78				878.78
	Detour (See Sheets 3 & 9)							

PLAN
 SHEET NO. 5830
 DATE 10-1-50
 BY J. H. HARRIS
 CHECKED BY J. H. HARRIS

PROFILE
 SHEET NO. 5832
 DATE 10-1-50
 BY J. H. HARRIS
 CHECKED BY J. H. HARRIS



Rec. as Const 12-8-35 J. E. W. H. S.

Sta 2402+32.5-2402+825 - Req'd 2-50' lengths of Wire Cable Guard Fence
Sta 2404+27-2404+77 - " 2-50' " " " " " "

Sta 2400.00 - Reg'd Dike Lt

Sta 2400+00 to 2404+00 - Field Drain Disin Lt

W.F.*712

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Proposed Structures:
Position referred to present struct- Upstream 200'
Span 6 @ 23' 0" Sld P-117-BH
Clear Roadway-29 ft
Clear Waterway-730 Sq ft
Type of Superstructure-6 Unimitted I bar, Asphalt
Paving, Reinforcing Surface
Type of Substructure-Treated Timber Piling
Below Structure Requirement-None
P.R. Bridge (Brazil) Haul to Bridge-7.5 Mi
Nearby Structures on Same Stream-P.R.Br. #563
Location-1000' Down Stream
Waterway-1248 Sq ft

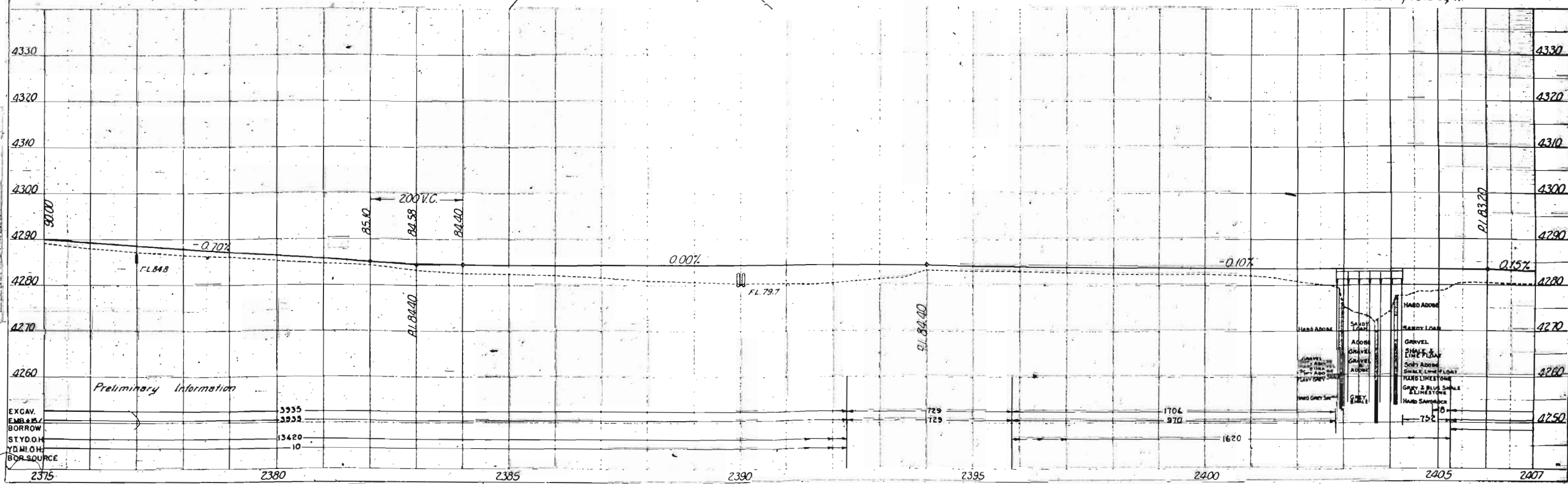
N.W. 1/4, Sec 2

Proposed by _____
 Station _____
 Clear Height _____
 Clear Width _____
 Type of Suspension _____
 Type of Suspension _____
 Span _____
 Date of Construction _____
 Elevation _____
 Remarks _____
 Station _____

Sta. 2377+00-Req'd 24"x54" C.M.P. Cross Culvert &
1239 cu yds (Incl) Excav for Ditch & Dike Rte & Lt

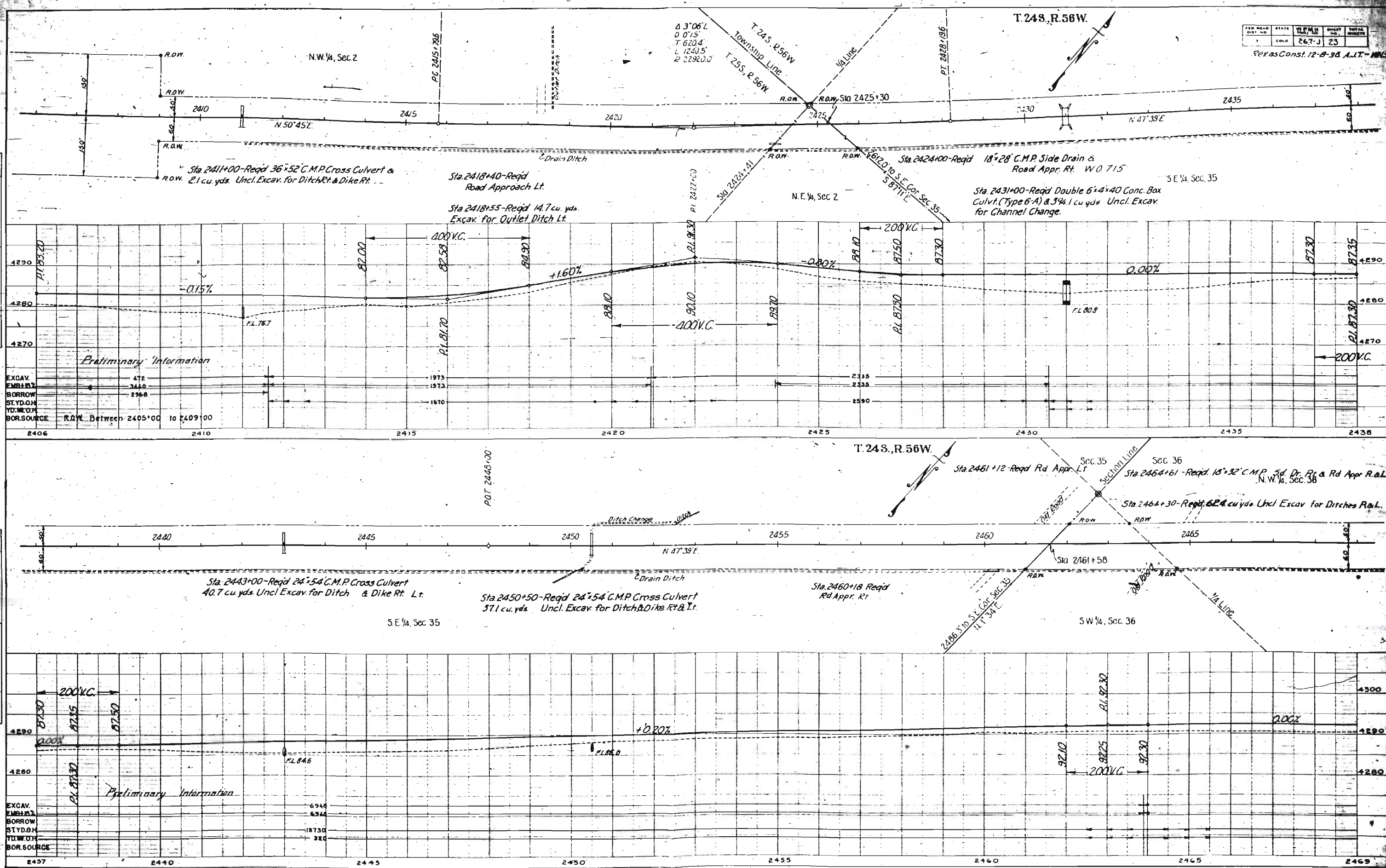
Sta 2390+00~ Reqd Double 36" 42 C.M.P.
Cross Culvert, 2 Headwalls & 59 cu yds.
Uncl Excav. for Ditches. R. 3/1

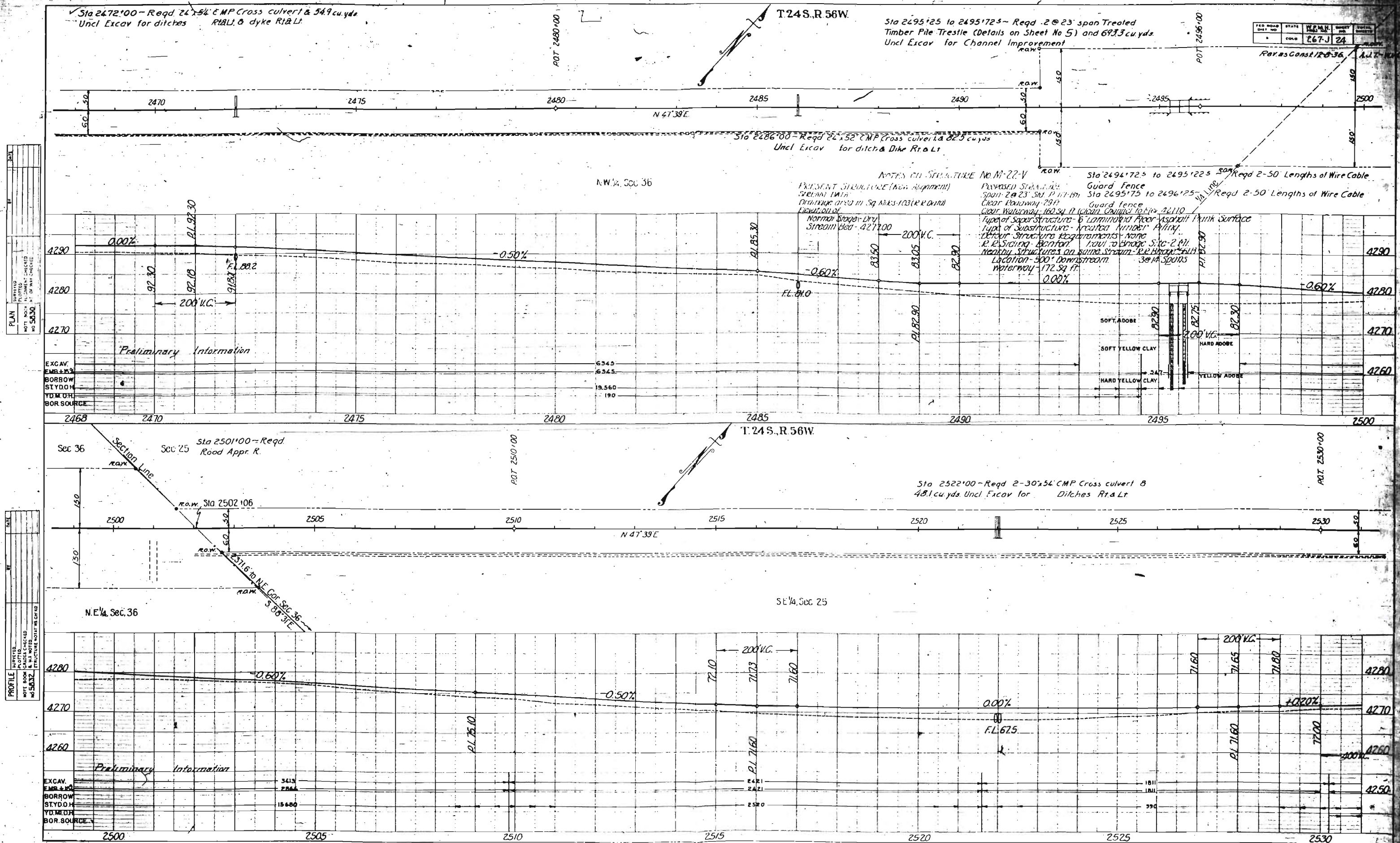
Sta. 2395+00 ~ Req'd
Road Approach R/L



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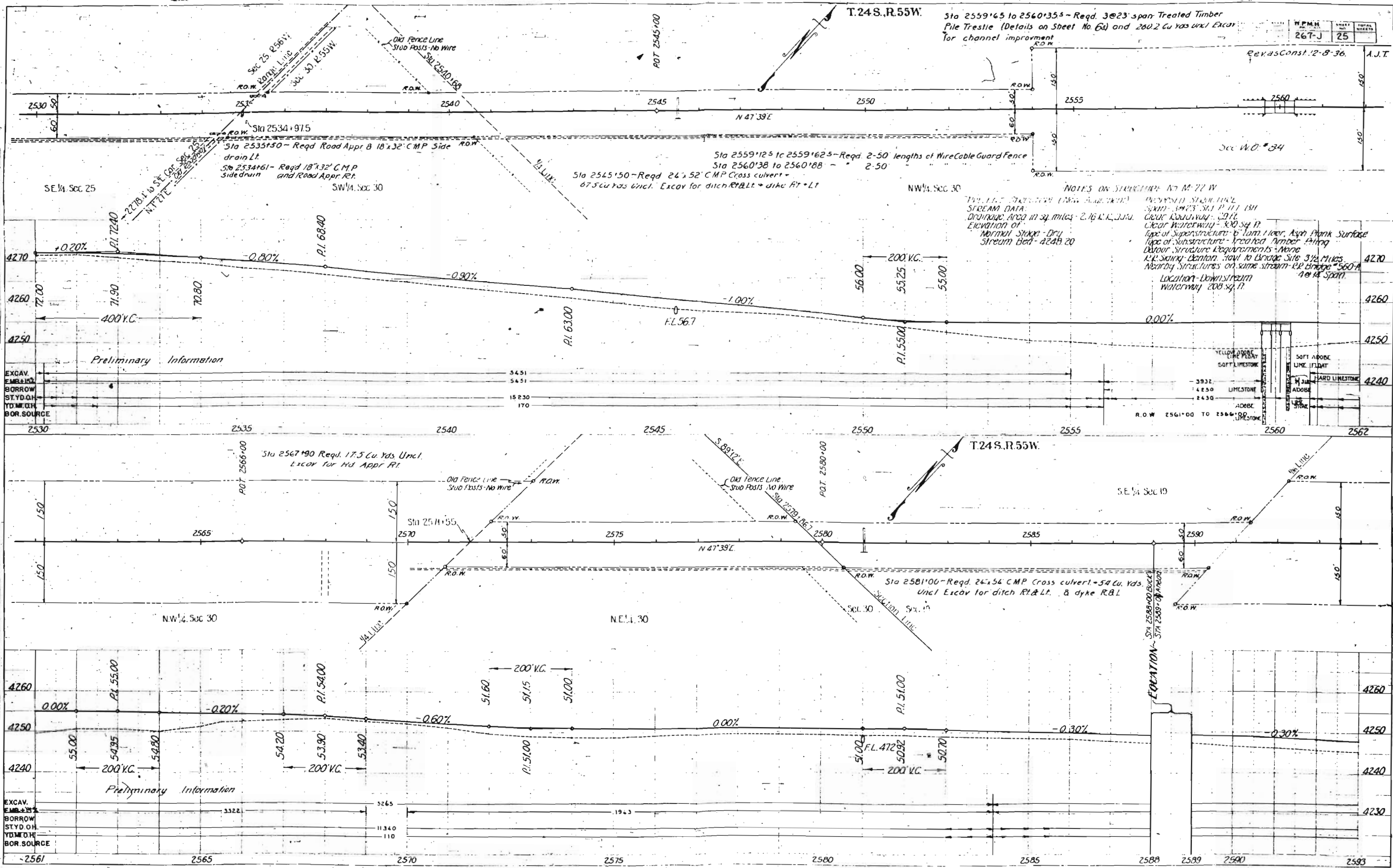
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PLAN
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PROFILE
 DATE
 NOTE: ROAD CHANGES
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NOTES ON STRUCTURE NO. M-77 W

PROPOSED STRUCTURE: 3@23' SPAN TREATED TIMBER PILE TRESTLE

STREAM DATA:

- Drainage Area in sq. miles: 2.16
- Elevation of Normal Stage: Dry
- Stream Bed: 4245.20
- Clear Waterway: 300 sq ft
- Type of Superstructure: 6" Treated Lumber, Ash Plank Surface
- Type of Substructure: Treated Lumber Piling
- Design Structure Requirements: None
- Location: Downstream
- Waterway: 200 sq ft

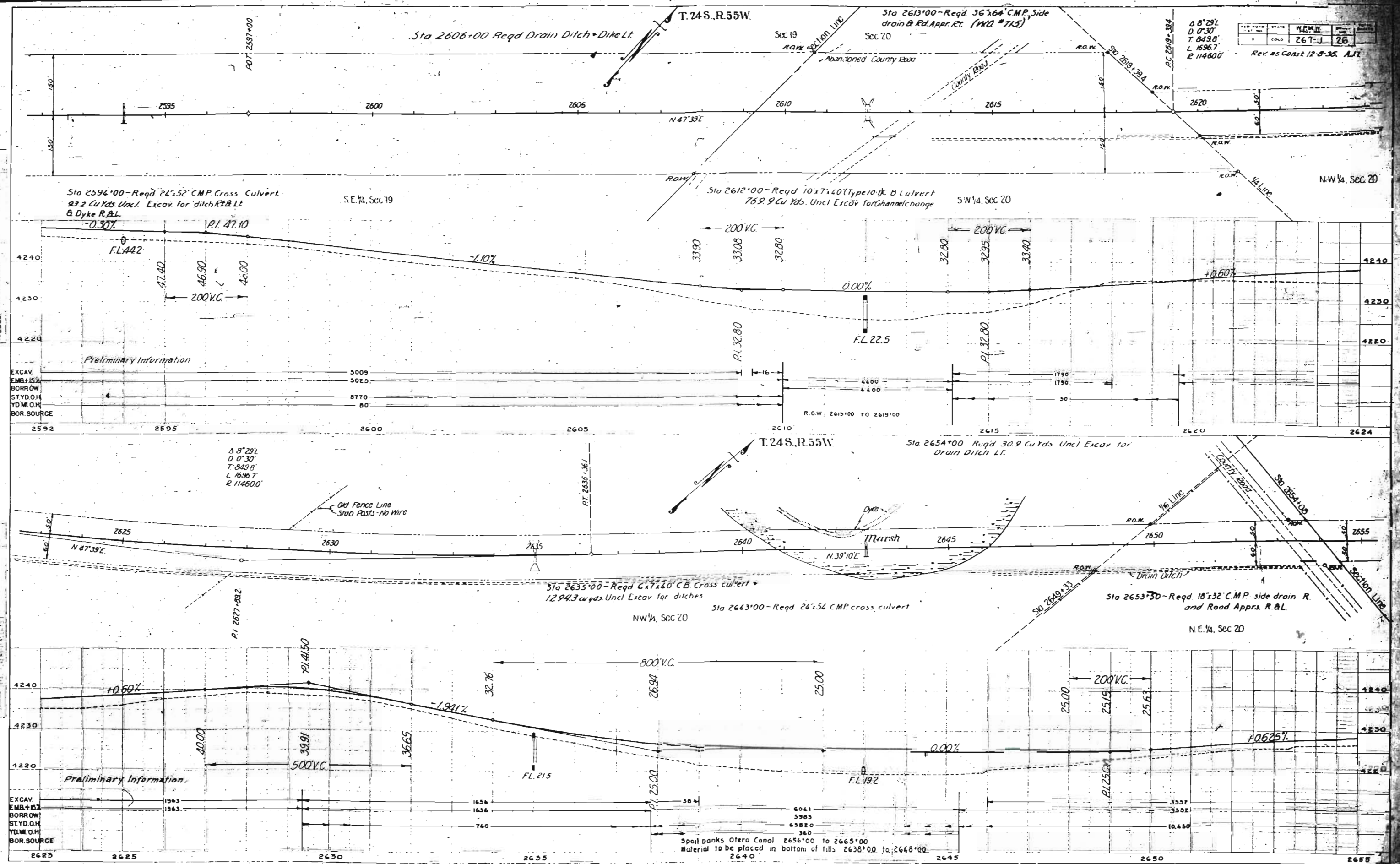
LOCATION - DOWNSTREAM

Waterway: 200 sq ft

LOCATION - STA 2588+00 TO STA 2589+00

PLAN
SHEET NO. 5030

PROFILE
SHEET NO. 5032



FED. ROAD DIST. NO.	STATE	W.P.M. PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	267-J	27	

Ref. 45 Const. 12-9-36 A.J.T.-H.E.S.

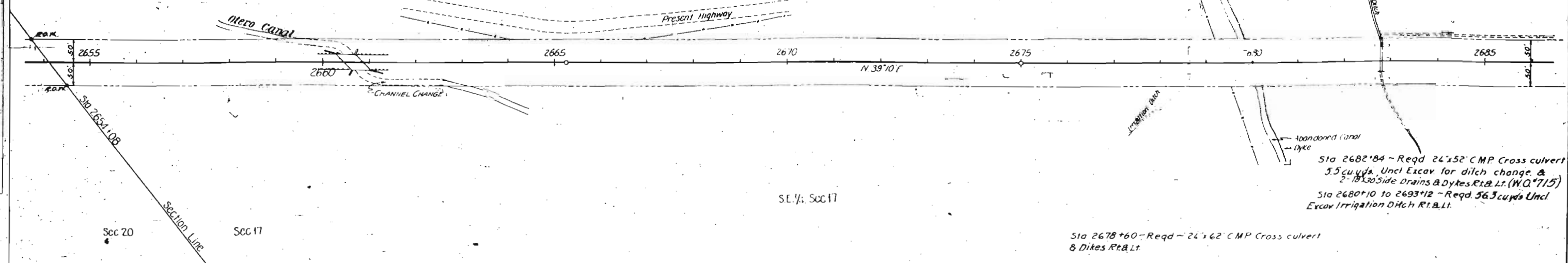
T.24S.R.55W

Sta 2660+43.5-2660+87.5 - Reqd 1 x 39'-6" span Concrete I Beam Bridge.
Skew 45° (Details shown on Sheets No. 7 & 8). 8 39572 cu yds Uncl. class.
Excav. for Channel Improvement. Material to be used in filling old channel.

Sta 2659+91 to 2660+41 - Reqd 2-50' Lengths of Wire Cable Guard Fence
Sta 2660+90 to 2661+40 2-50'

POT 2665+240

POT 2675+00



Sta 2682+84 - Reqd 24' x 52' CMP Cross culvert
55 cu yds Uncl Excav for ditch change &
2-18' x 30' Side Drains & Dykes Rt. & Lt. (W.Q. 71.5)
Sta 2680+10 to 2693+12 - Reqd 56.3 cu yds Uncl
Excav Irrigation Ditch Rt. & Lt.

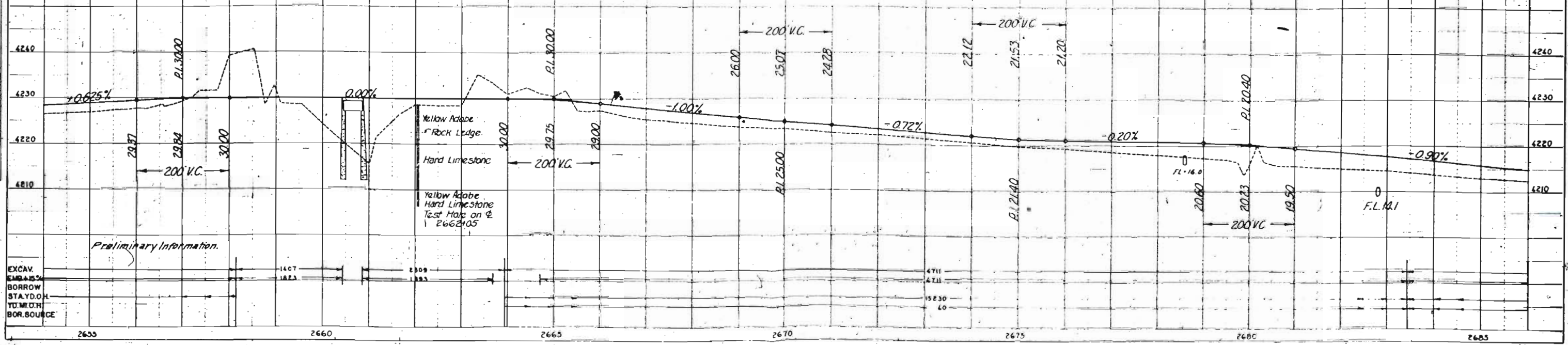
Sta 2678+60 - Reqd 24' x 62' CMP Cross culvert
& Dikes Rt. & Lt.

NOTE ON STRUCTURE No. M-22-U

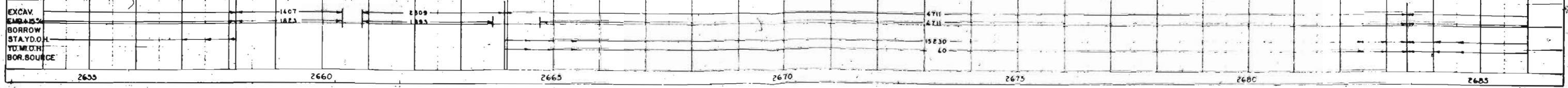
Present Structure:
Span - 38 ft. Skewed 21° with Road
Clear Roadway - 20 ft.
Type of Superstructure - Timber.
Type of Substructure - Timber.
Requirements as to Removal - Leave in place.

Stream Data:
Elevation of Stream Bed - 4215.5
Drift - None

Proposed Structure:
Position referred to Present Structure 2400' Downstream
Span - 39'-6"
Clear Roadway - 30 ft.
Clear Waterway - 329 sq ft.
Type of Superstructure - Concrete I Beam.
Type of Substructure - Concrete Gravity.
Detour Structure Requirements - None.
R.R. Siding - Orinago. Haul to Bridge Site 0.25 Miles.
Nearby Structures on same stream - Sec. Book 5831 p. 34.
Location - 150 ft. Left Sta 2652+00.
Waterway - 200 sq ft.
Record during floods - None.

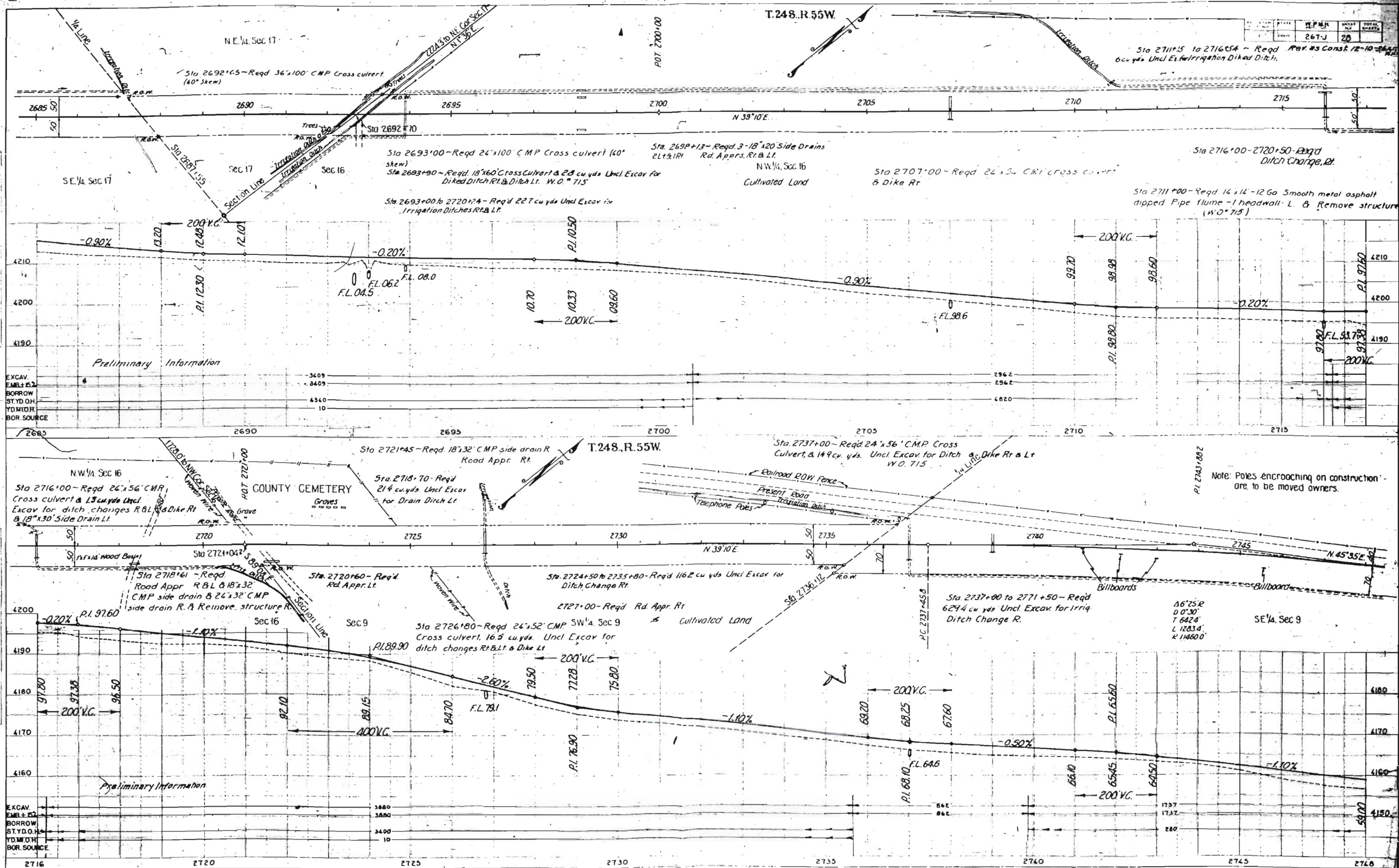


Preliminary Information.



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PROFILE	DATE	BY	CHKD
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