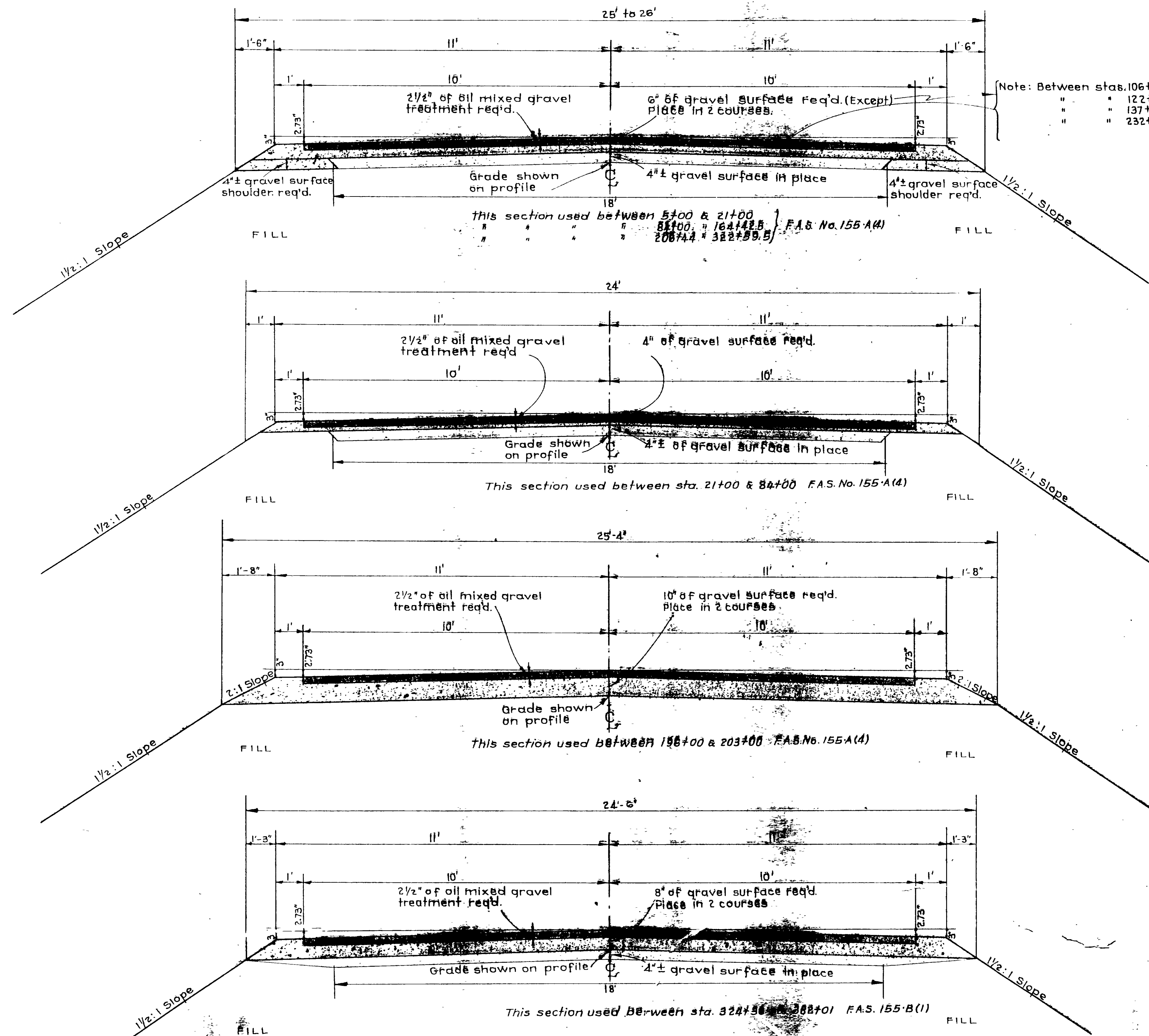


# TYPICAL CROSS SECTION

FED. ROAD DIST. NO.	STATE	F.A.S. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	155-A(4)	1939	2	1
"	"	155-B(1)	"	"	6



Note: Between sta. 106+50 & 107+50 Gravel Surface 12" thick  
 " " 122+50 " 123+50 " " " "  
 " " 137+50 " 138+50 " " " "  
 " " 232+00 " 255+00 " " " "

REVISIONS

Widen and superelevate curves according to J-343-R5

UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY, UTAH  
 W.C. KNOWLTON - CHIEF ENGINEER  
 -- TYPE --  
 22' OF GRAVEL SURFACING  
 2 1/2" x 20' OF OIL MIXED GRAVEL

PLAN SURVEYED BY C.R. Kimball DATE 5/4  
 PLOTTED BY C.A. WEST  
 NOTE BOOK NO. 155-A(4) SOUTH SEC. 5  
 CHECKED BY L.R. SCOTT

PROFILE SURVEYED BY C.R. Kimball DATE 5/4  
 PLOTTED BY C.A. WEST  
 NOTE BOOK NO. 155-A(4) SOUTH SEC. 5  
 CHECKED BY L.R. SCOTT

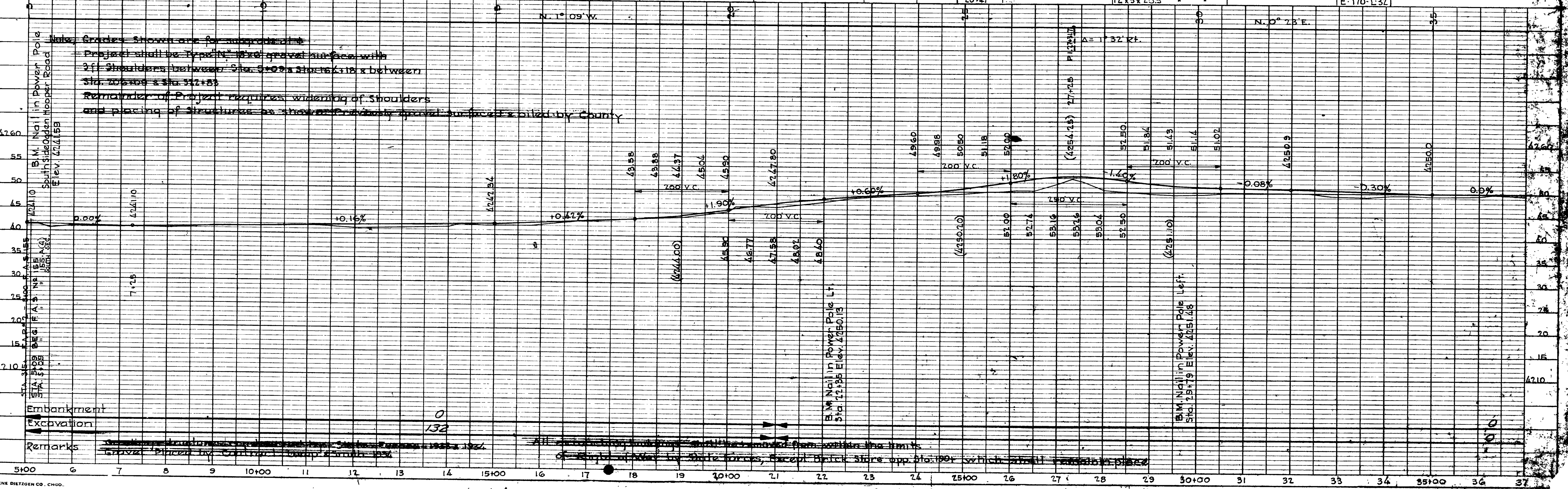
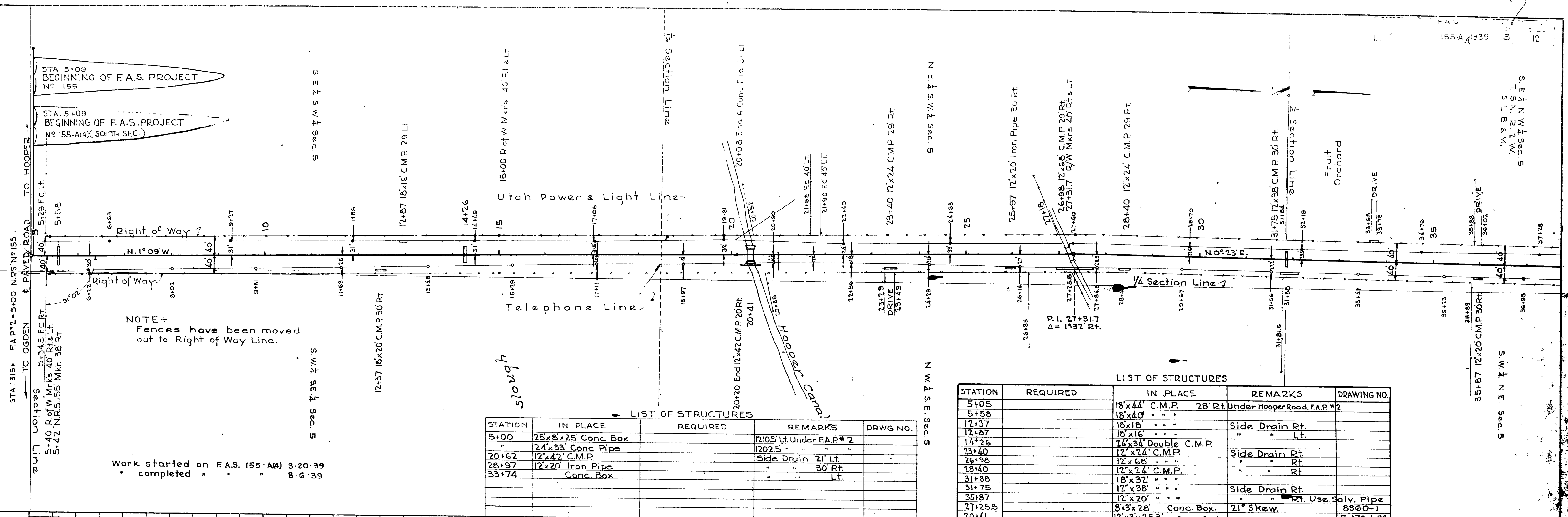
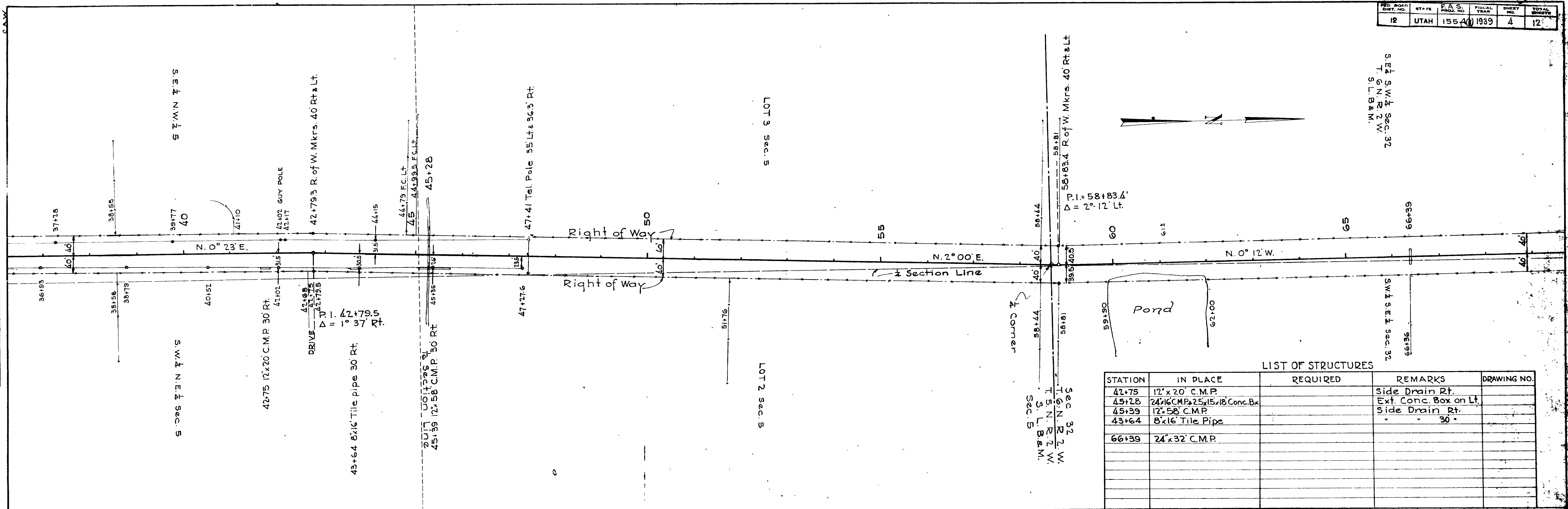


PLATE I-PLAN/PROFILE B. P. R. STANDARD

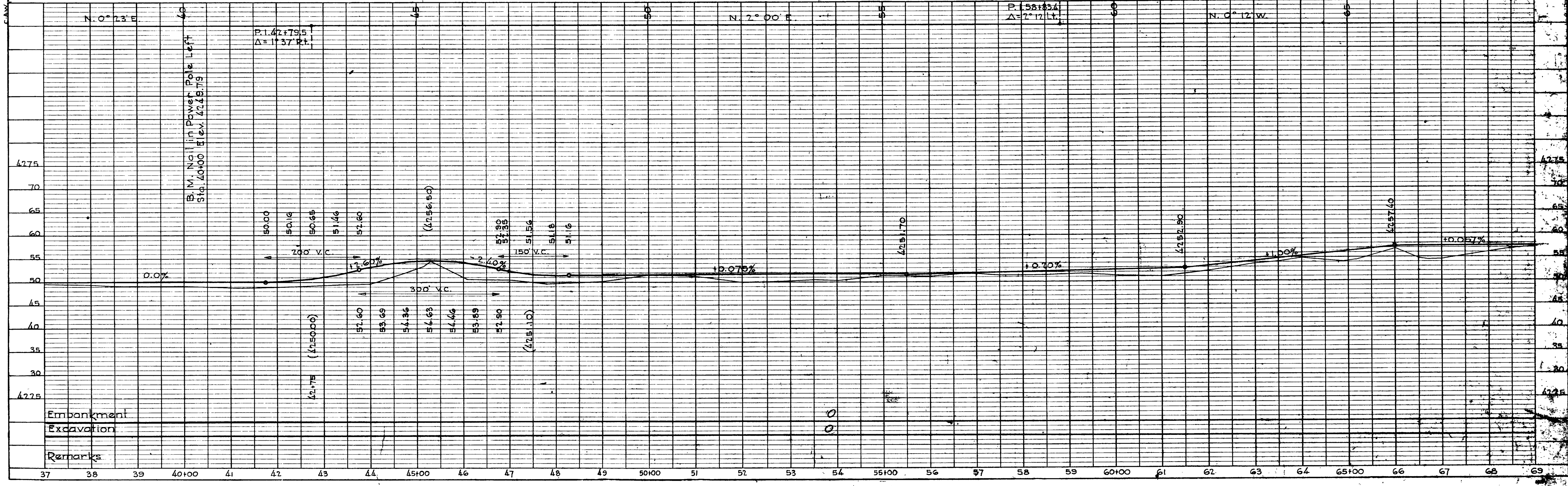
**PLAN**  
 DRAWING BY: C. B. KILPATRICK  
 CHECKED BY: C. A. WEST  
 NOTE BOOK: PLANNING  
 DATE: 1/20/39

**PROFILE**  
 DRAWING BY: C. B. KILPATRICK  
 CHECKED BY: C. A. WEST  
 NOTE BOOK: PLANNING  
 DATE: 1/20/39



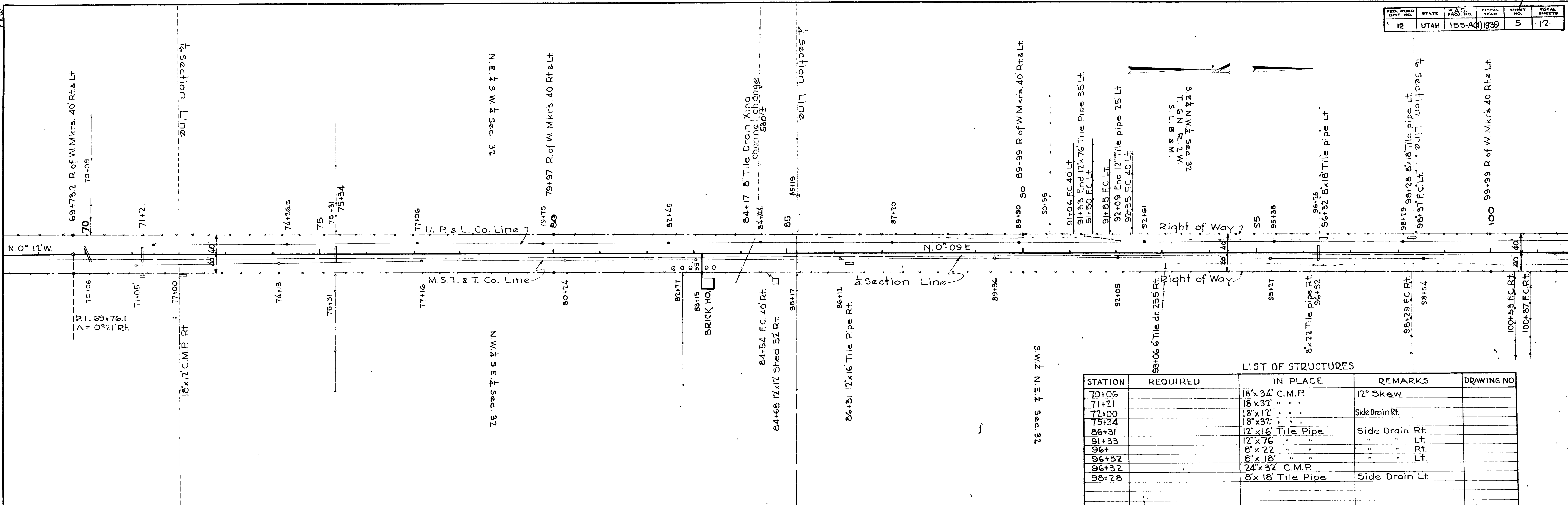
**LIST OF STRUCTURES**

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING NO.
42+75	12" x 20' C.M.P.		Side Drain Rt.	
45+28	24" x 16" C.M.P. & 25" x 18" Conc. Box		Ext. Conc. Box on Lt.	
45+39	12" x 58" C.M.P.		Side Drain Rt.	
43+64	8" x 16" Tile Pipe		" " " " 30"	
66+39	24" x 32' C.M.P.			

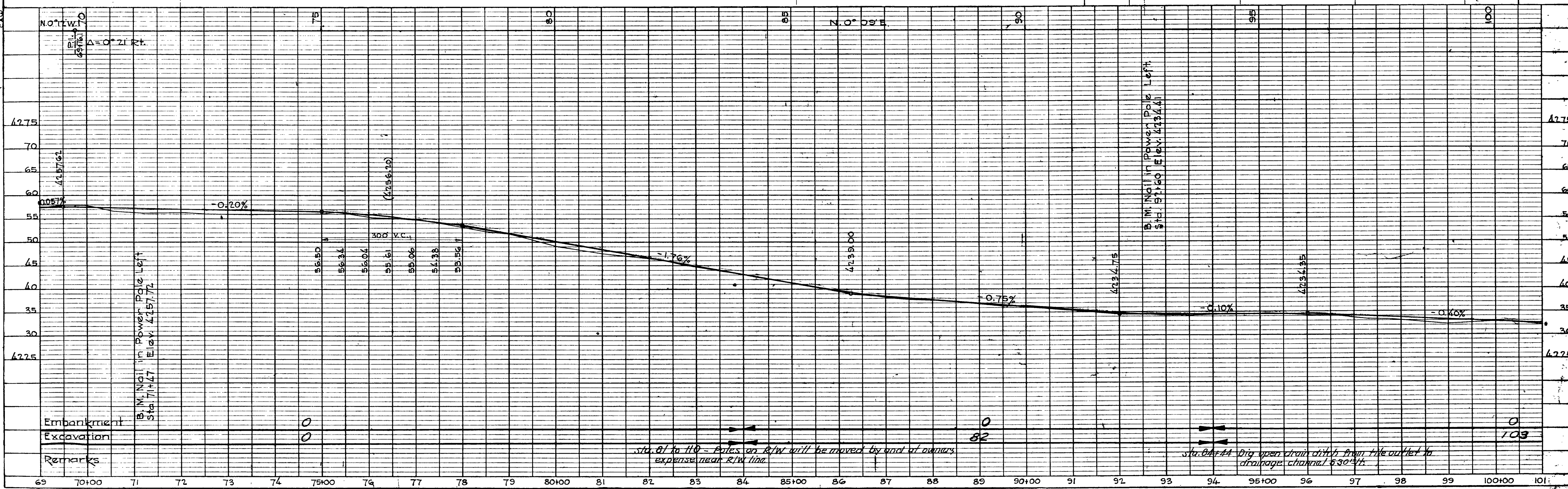


PLAN	SURVEYED	BY	DATE
NOTED	C.R. Kimball	34	
NO. OF WAY CHECKED	C.A. West	34	
NO. OF WAY CHECKED	L.H. Scott	34	

PROFILE	SURVEYED	BY	DATE
NOTED	C.R. Kimball	34	
NO. OF WAY CHECKED	C.A. West	34	
NO. OF WAY CHECKED	L.H. Scott	34	

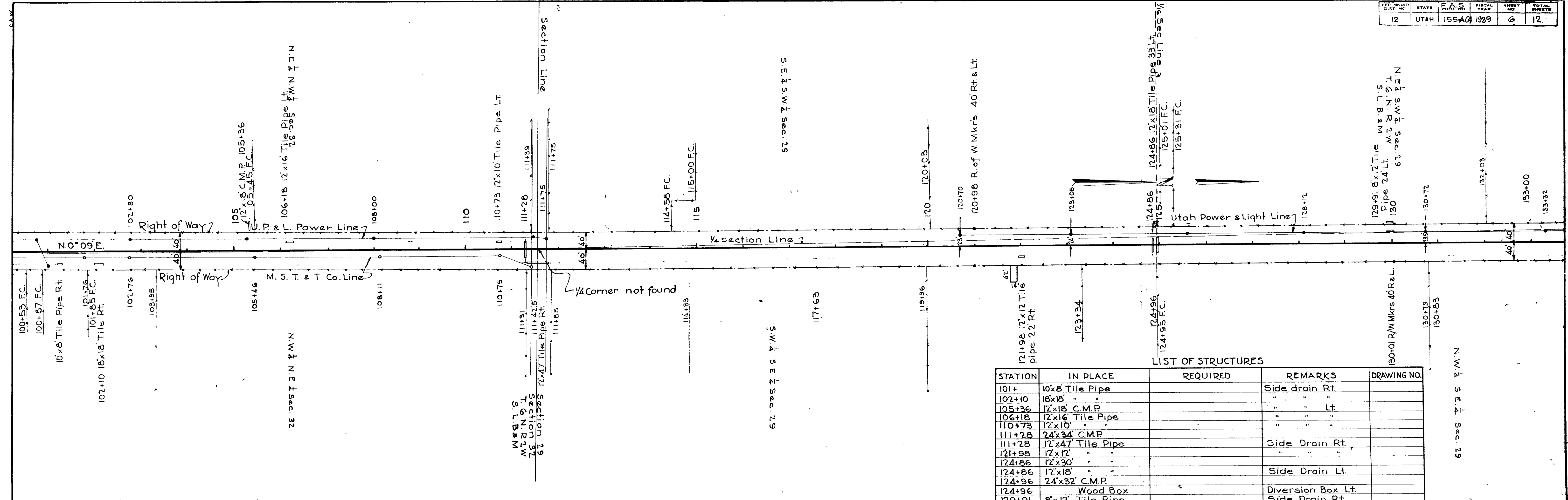


STATION	REQUIRED	IN PLACE	REMARKS	DRAWING NO.
70+06		18' x 34' C.M.P.	12° Skew	
71+21		18' x 32' "		
72+00		18' x 12' "	Side Drain Rt.	
75+34		18' x 32' "		
86+31		12' x 16' Tile Pipe	Side Drain Rt.	
91+33		12' x 76' "	" " Lt.	
96+		8' x 22' "	" " Lt.	
96+32		8' x 18' "	" " Lt.	
96+32		24' x 32' C.M.P.		
98+28		8' x 18' Tile Pipe	Side Drain Lt.	



PLAN	SURVEYED BY	DATE
NOTE BOOK	C. B. KILPATRICK	5/4
ALIGNED CHECKED	C. A. WIGGINTON	
NOTED	L. H. SCOTT	

PROFILE	SURVEYED BY	DATE
NOTE BOOK	C. B. KILPATRICK	5/4
GRADE CHECKED	C. A. WIGGINTON	
STRUCTURE NOTATION CHECKED	L. H. SCOTT	



LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING NO.
101+	10x8 Tile Pipe		Side drain Rt.	
102+10	16x18 "		" " Lt.	
105+36	12x18 C.M.P.		" " Lt.	
106+18	12x16 Tile Pipe		" " Lt.	
110+73	12x10 "		" " Lt.	
111+28	24x34 C.M.P.		" " Lt.	
111+28	12x47 Tile Pipe		Side Drain Rt.	
121+98	12x12 "		" " Lt.	
124+86	12x30 "		" " Lt.	
124+86	12x18 "		Side Drain Lt.	
124+96	24x32 C.M.P.		" " Lt.	
124+96	Wood Box		Diversion Box Lt.	
129+91	8x12 Tile Pipe		Side Drain Rt.	

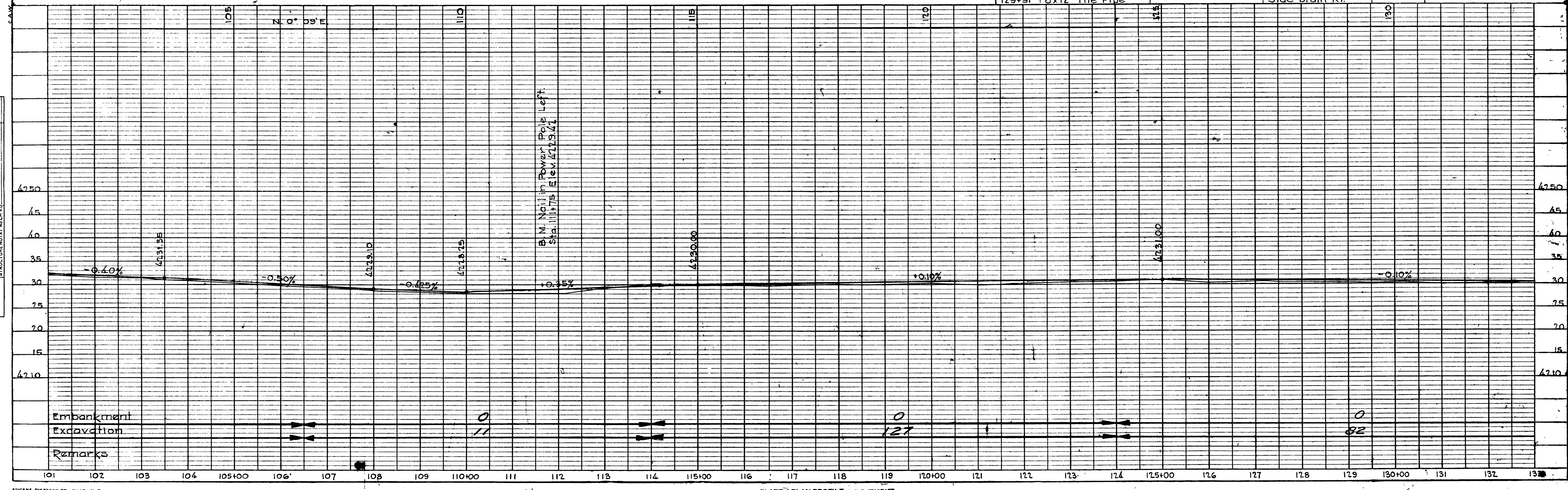
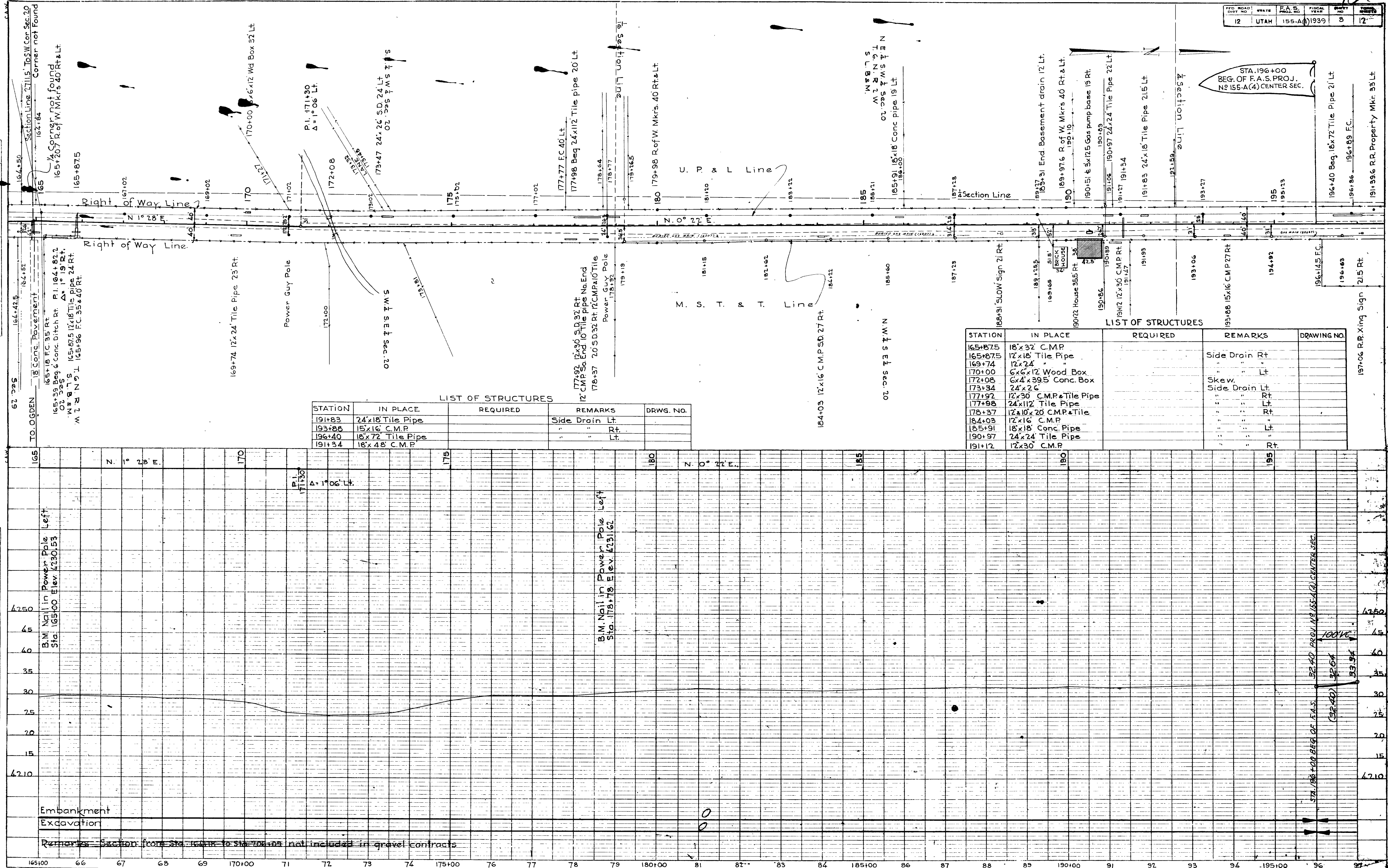


PLATE I-PLAN-PROFILE S. P. R. STANDARD



PROFILE SURVEYED BY C.R. Kimball DATE 3/23/34  
 PLOTTED BY C.A. West  
 CHECKED BY L.H. Scoth  
 NOTE: GRADES CHECKED BY STRUCTURE NOT CHECKED

PLAN SURVEYED BY C.R. Kimball DATE 3/23/34  
 PLOTTED BY C.A. West  
 CHECKED BY L.H. Scoth  
 NOTE: BOOK ALIGNMENT CHECKED BY STRUCTURE NOT CHECKED



FED. ROAD DIST. NO.	STATE	F.A.S. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	155-A(4)	1939	3	7

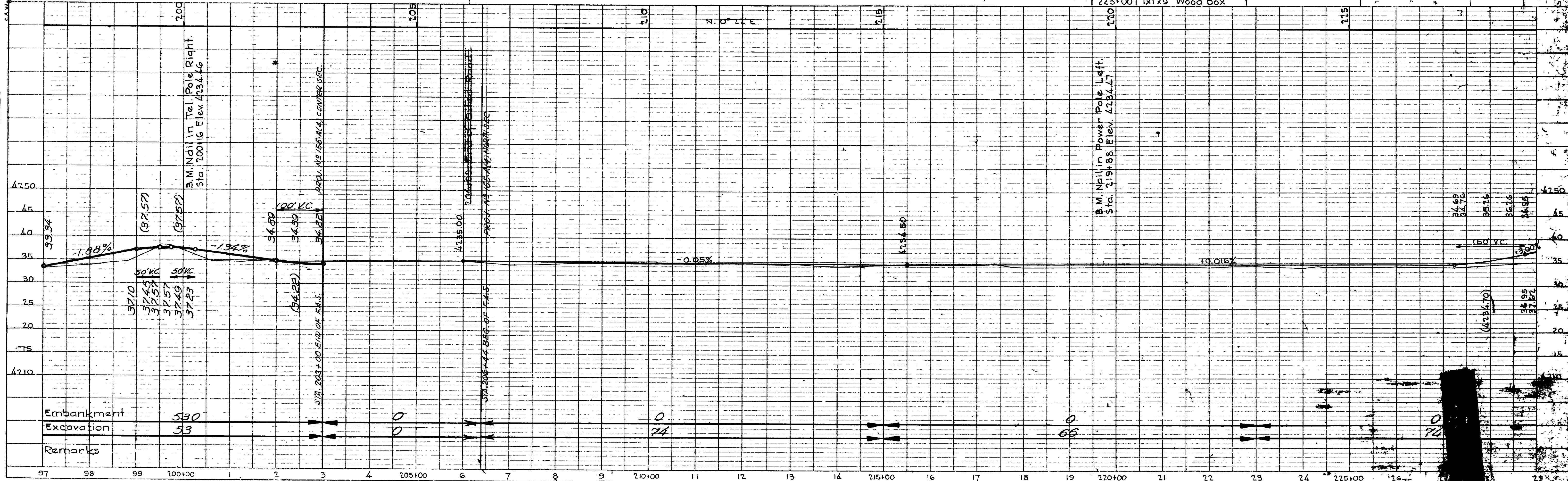
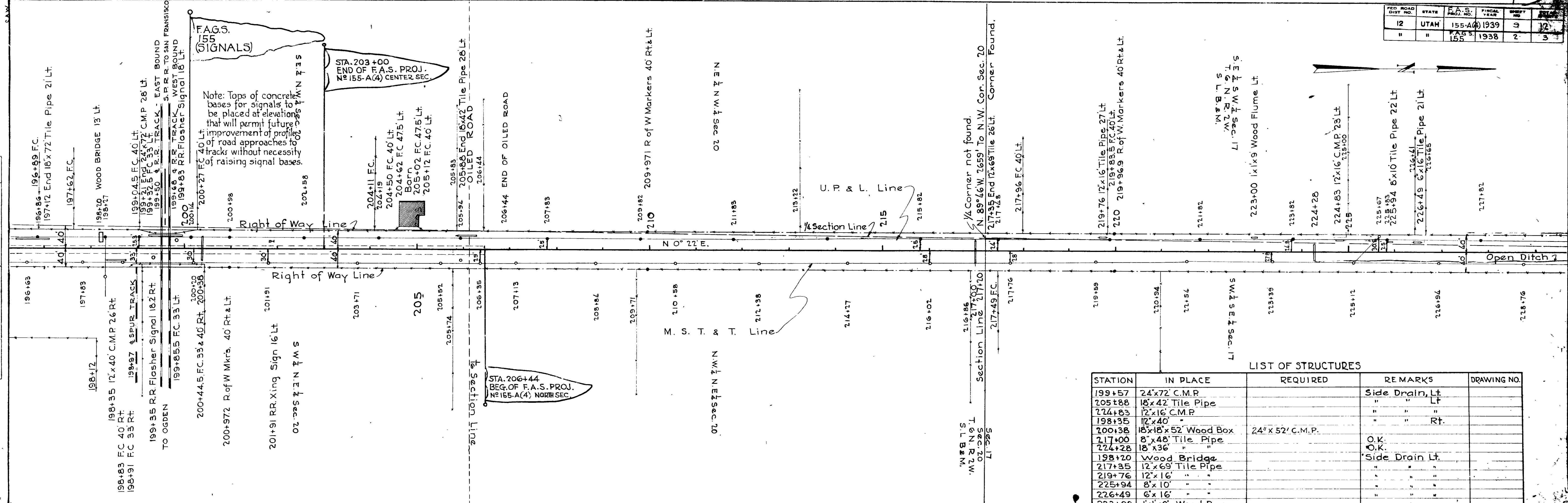
FED. ROAD DIST. NO.	STATE	F.A.S. PROJ. NO.	FISCAL YEAR	SHEET	TOTAL
12	UTAH	155-A(4)	1939	9	12
"	"	155	1938	2	5

PLAN

DATE	BY
3/4	C.R. Kimball
NO. OF SHEETS	NO. OF SHEETS CHECKED
1	C.A. WEST
NO. OF SHEETS	NO. OF SHEETS CHECKED
1	L.H. SCOTT

PROFILE

DATE	BY
3/4	C.R. Kimball
NO. OF SHEETS	NO. OF SHEETS CHECKED
1	C.A. WEST
NO. OF SHEETS	NO. OF SHEETS CHECKED
1	L.H. SCOTT



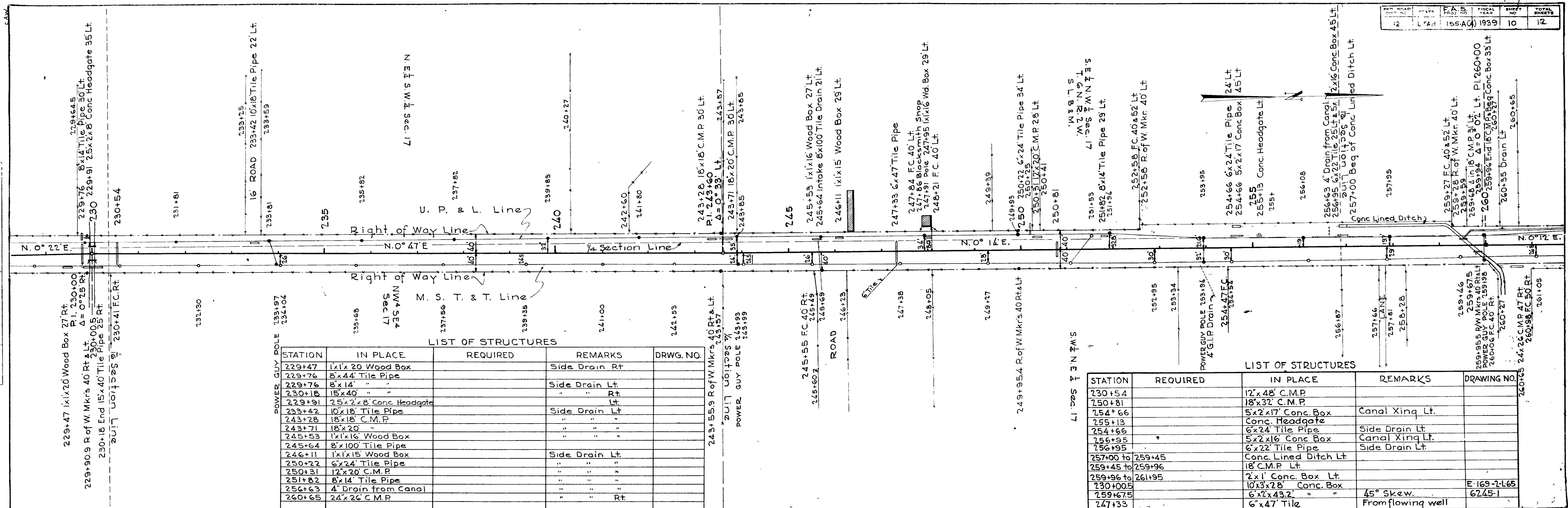
LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING NO.
199+57	24x72 C.M.P.			
205+88	18x42 Tile Pipe		Side Drain Lt	
224+83	12x16 C.M.P.			
198+35	12x40			
200+38	18x18x52 Wood Box	24x52 C.M.P.		
217+00	8x48 Tile Pipe			
224+28	18x36			
198+20	Wood Bridge			
217+35	12x69 Tile Pipe		Side Drain Lt.	
219+76	12x16			
225+94	8x10			
226+49	6x16			
223+00	12x16 Wood Box			



PLAN  
 DRAWN BY: C.R. KILBALL  
 CHECKED BY: C.A. WAST  
 DATE: 3/14/1939

PROFILE  
 DRAWN BY: C.R. KILBALL  
 CHECKED BY: C.A. WAST  
 DATE: 3/14/1939



LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRWG. NO.
229+47	1x120 Wood Box		Side Drain Rt	
229+76	8x44 Tile Pipe			
229+76	8x14 "		Side Drain Lt	
230+18	15x40 "			
229+91	25x2x8 Conc Headgate			
233+42	10x18 Tile Pipe		Side Drain Lt	
243+28	18x18 C.M.P.			
243+71	18x20 "			
245+53	1x1x16 Wood Box			
245+64	8x100 Tile Pipe			
246+11	1x1x15 Wood Box		Side Drain Lt	
250+22	6x24 Tile Pipe			
250+31	12x20 C.M.P.			
251+82	8x14 Tile Pipe			
256+63	4" Drain from Canal			
260+65	24x24 C.M.P.		Rt	

LIST OF STRUCTURES

STATION	REQUIRED	IN PLACE	REMARKS	DRAWING NO.
230+54		12x48 C.M.P.		
250+81		18x32 C.M.P.		
254+66		5x2x17 Conc. Box	Canal Xing Lt.	
255+13		Conc. Headgate		
254+66		6x24 Tile Pipe	Side Drain Lt.	
256+95		5x2x16 Conc. Box	Canal Xing Lt.	
256+95		6x22 Tile Pipe	Side Drain Lt.	
257+00 to 259+45		Conc. Lined Ditch Lt.		
259+45 to 259+96		18" C.M.P. Lt.		
259+96 to 261+95		2x1 Conc. Box Lt.		
230+00 to 230+05		10x128 Conc. Box		
259+67.5		6x12x43.2 "	45° Skew.	E-169-7-165
247+33		6x47 Tile	From flowing well	6245-1

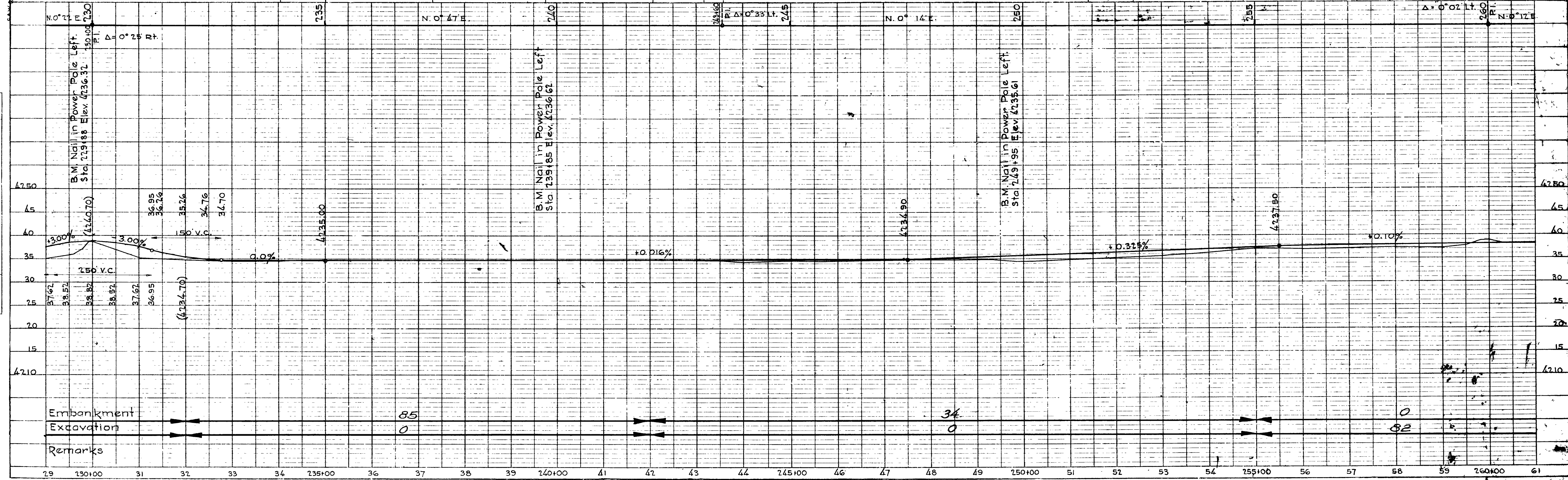
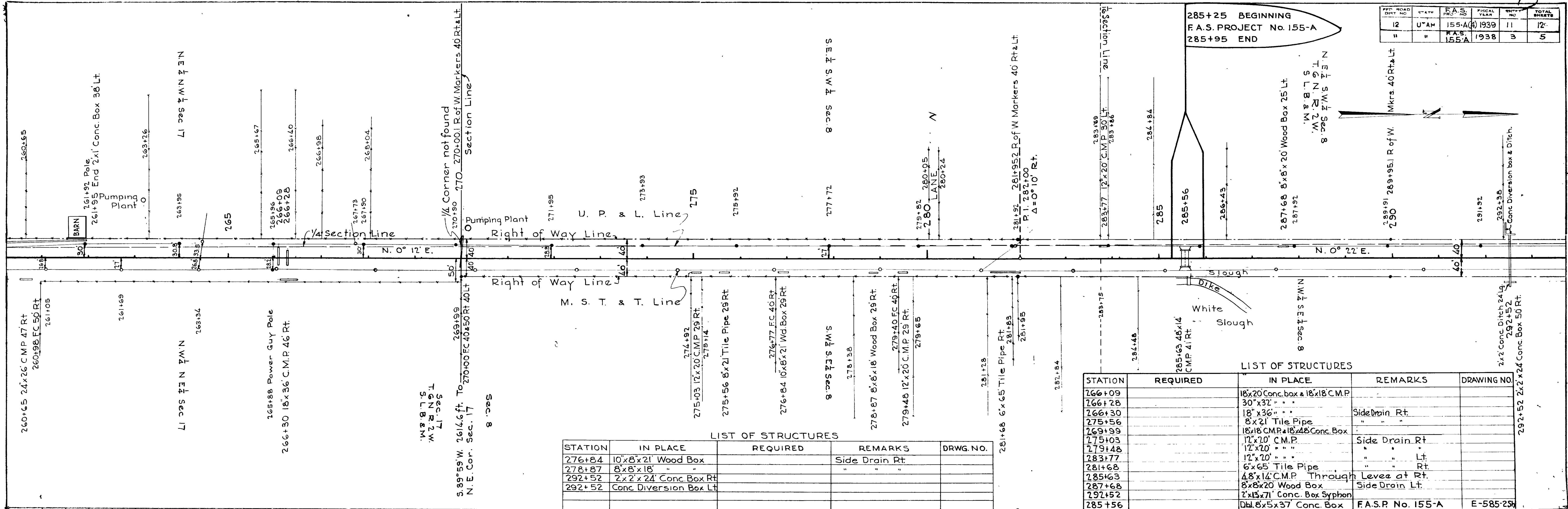


PLATE I-PLAN-PROFILE B.P.R. STANDARD

NO. SHEETS	12
SHEET NO.	12
DATE	3/14/1939
BY	C.R. KILBALL
CHECKED BY	C.A. WAST

PLAN	DATE
SUPERVISOR CHECKED NOTE BOOK ALIGNED CHECKED NO HAND CORRECTIONS	DATE BY C. R. K. Ball C. A. WAST L. H. SECH

PROFILE	DATE
SUPERVISOR CHECKED NOTE BOOK GRADES CHECKED NO HAND CORRECTIONS	DATE BY C. R. K. Ball C. A. WAST



285+25 BEGINNING  
 F.A.S. PROJECT No. 155-A  
 285+95 END

F.A.S. DIST. NO.	DATE	F.A.S. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	U.A.M.	155-A(4)	1939	11	12
"	"	155-A	1938	3	5

STATION	IN PLACE	REQUIRED	REMARKS	DRWG. NO.
276+84	10'x8'x21' Wood Box		Side Drain Rt.	
278+87	8'x8'x18'			
292+52	2'x2'x24' Conc. Box Rt.			
292+52	Conc. Diversion Box Lt.			

STATION	REQUIRED	IN PLACE	REMARKS	DRAWING NO.
266+09		18'x20' Conc. box & 18'x18' C.M.P.		
266+28		30'x32'		
266+30		18'x36'	Side Drain Rt.	
275+56		8'x21' Tile Pipe		
269+99		18'x18' C.M.P. & 18'x24' Conc. Box		
275+03		12'x20' C.M.P.	Side Drain Rt.	
279+48		12'x20'		
281+68		6'x65' Tile Pipe		
285+63		48'x14' C.M.P. Through	Levee at Rt.	
287+68		8'x8'x20' Wood Box	Side Drain Lt.	
292+52		2'x15'x71' Conc. Box Syphon		
285+56		18'x20'x37' Conc. Box		

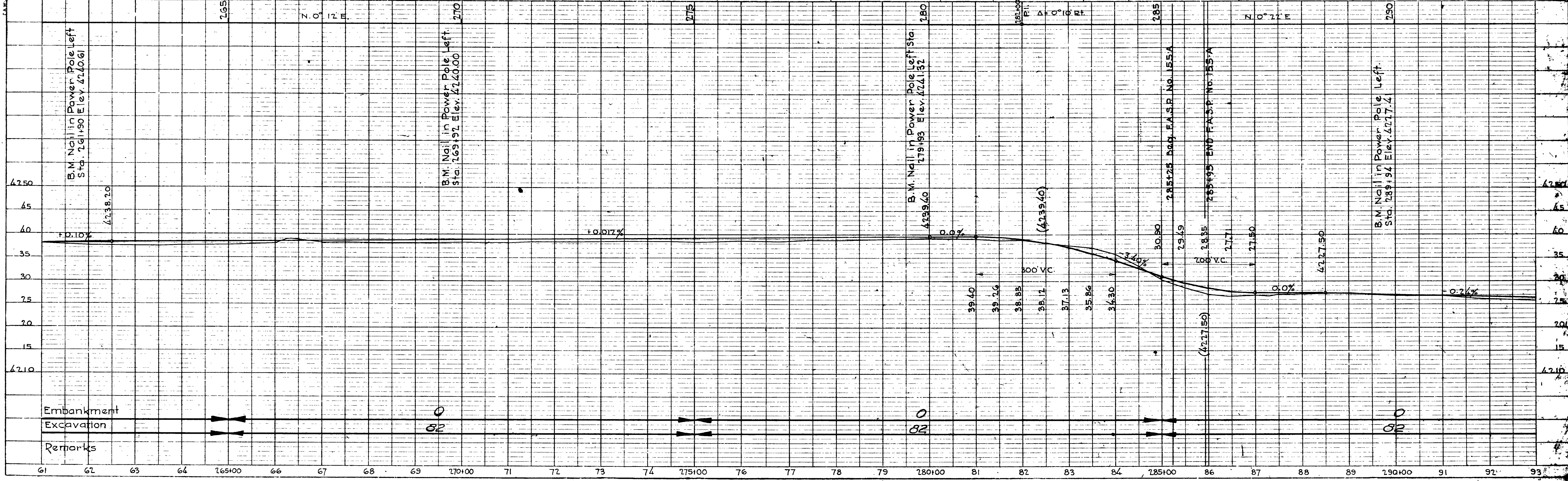
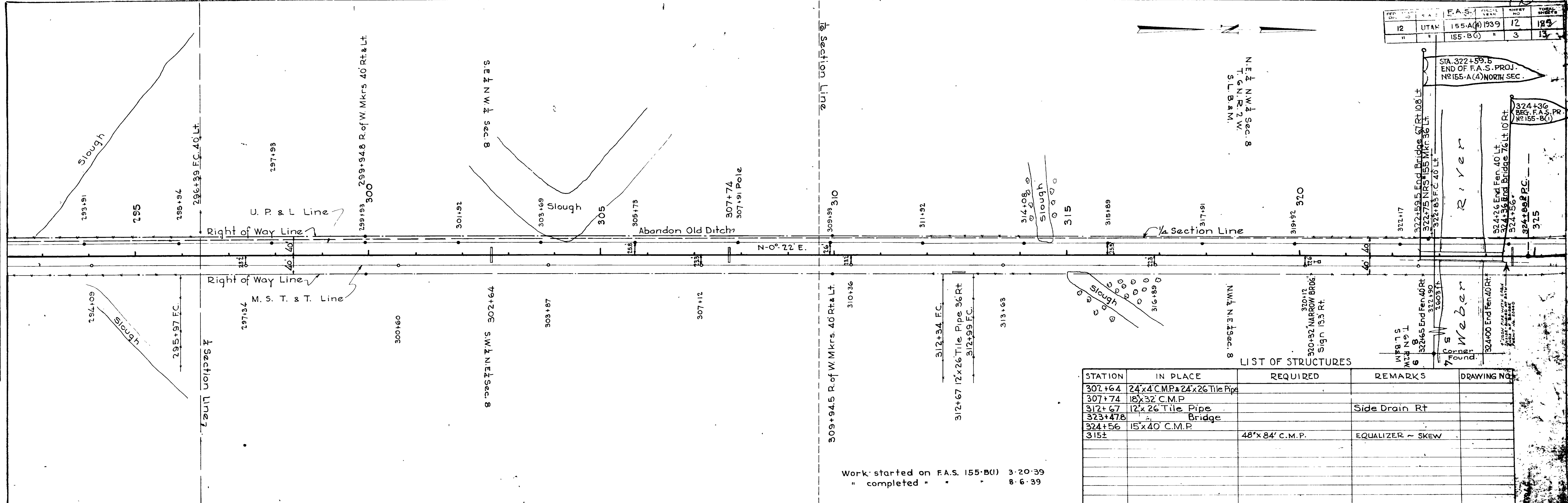


PLATE I-PLAN-PROFILE - STANDARD

PLAN SURVEYED BY C. Kimball  
 NOTE BOOK GRADES CHECKED C.A. West  
 RT. OF WAY CHECKED L.H. Scott  
 DATE 3-2-39

PROFILE SURVEYED BY C. Kimball  
 NOTE BOOK GRADES CHECKED C.A. West  
 RT. OF WAY CHECKED L.H. Scott  
 DATE 3-2-39

12	UTAH	155-A(4) 1939	12	129
"	"	155-B(0)	3	13



LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRAWING NO.
307+64	24"x4" C.M.P. & 24"x26" Tile Pipe			
307+74	18"x32" C.M.P.			
312+67	12"x26" Tile Pipe		Side Drain Rt	
323+47.8	Bridge			
324+56	15"x40" C.M.P.			
315±		48"x84" C.M.P.	EQUALIZER ~ SKEW	

Work started on F.A.S. 155-B(0) 3-20-39  
 " completed " " " 8-6-39

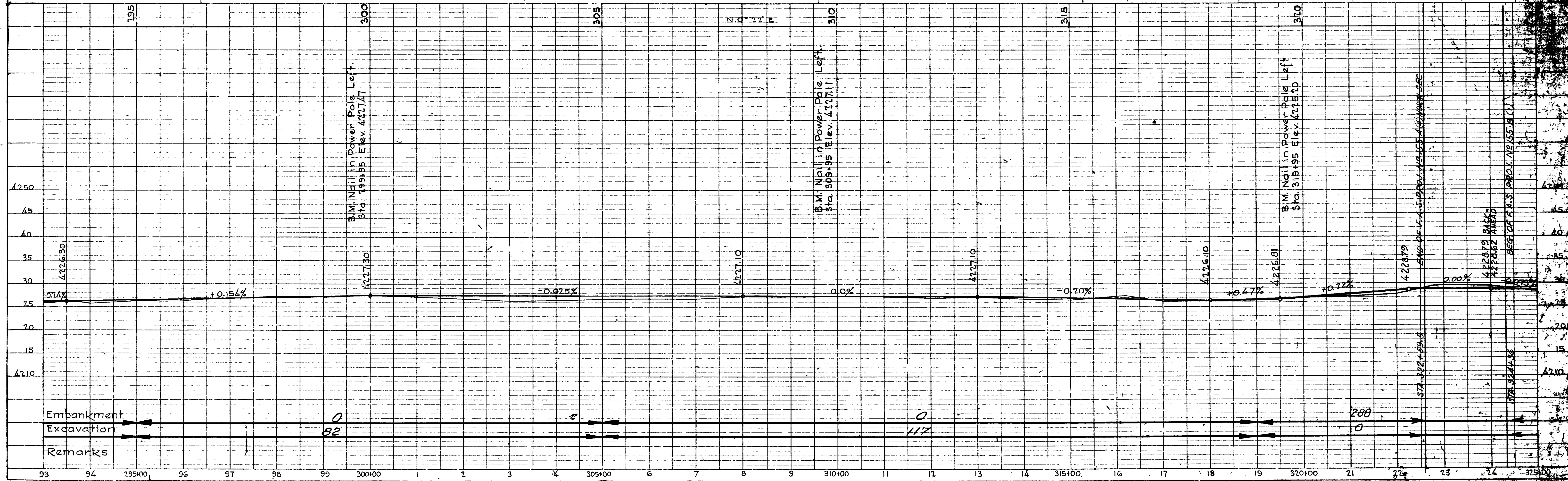
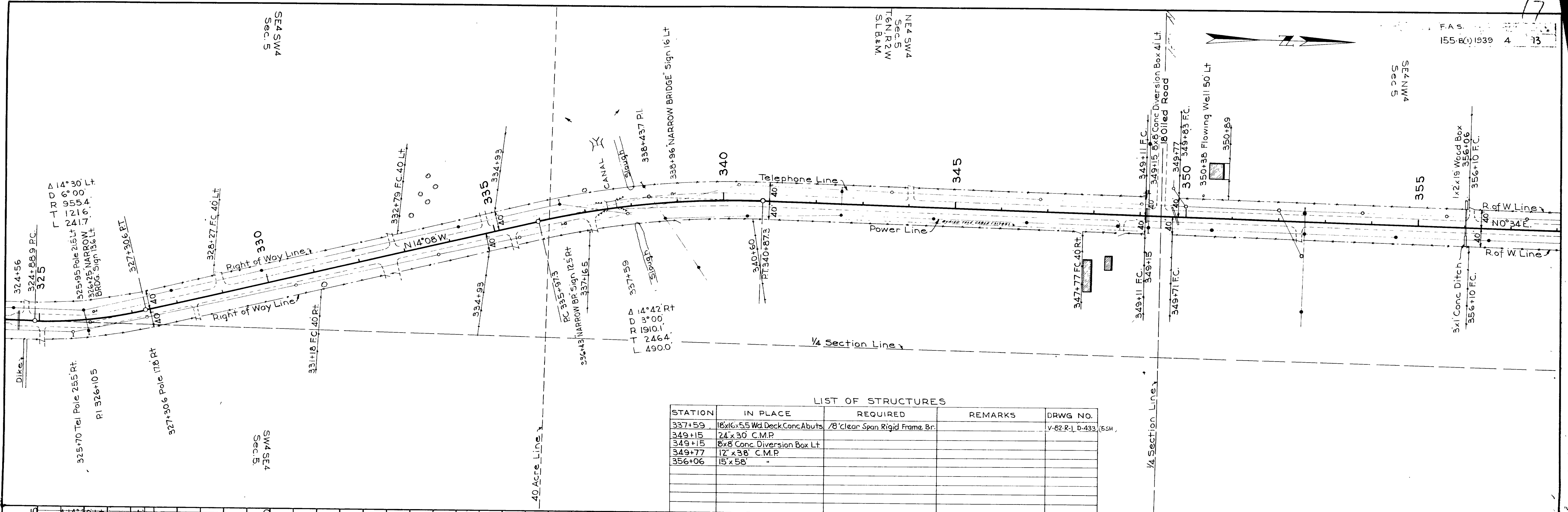


PLATE I-PLAN-PROFILE P. R. STANDARD

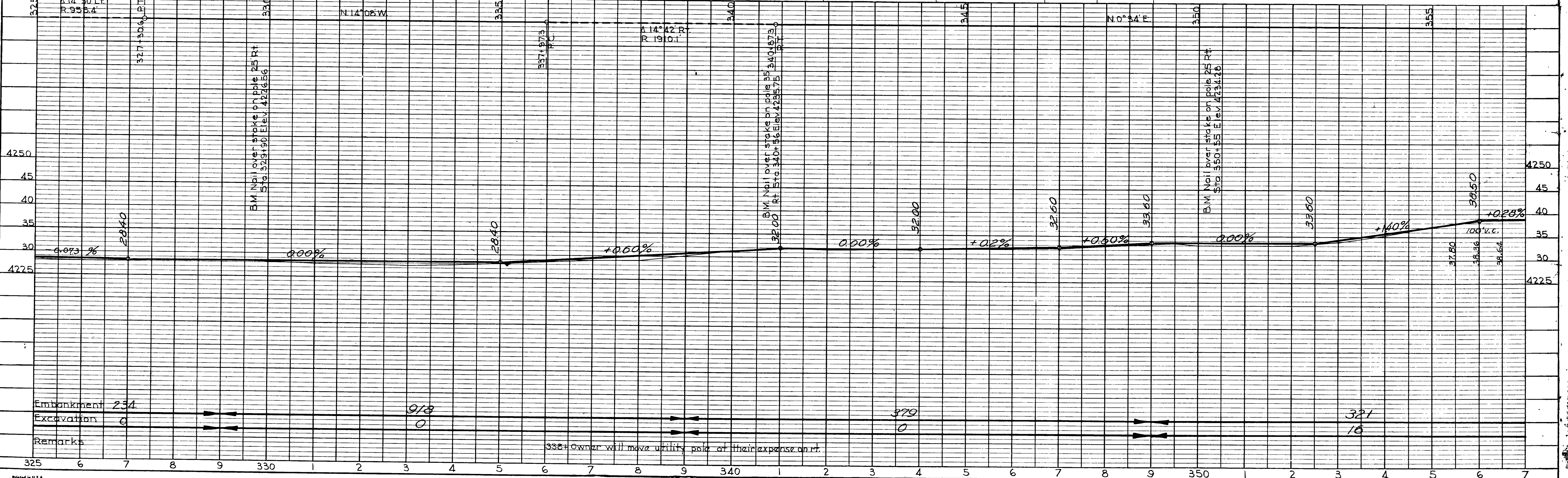
PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNED CHECKED	J.E.M.	1938
NO. 3363	PLotted	F.B.P.	1938

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	GRADES CHECKED	F.B.P.	1938
NO. 3365	B.M.'S NOTED	F.B.P.	"
	STRUCTURE NOTATIONS CHECKED		



LIST OF STRUCTURES

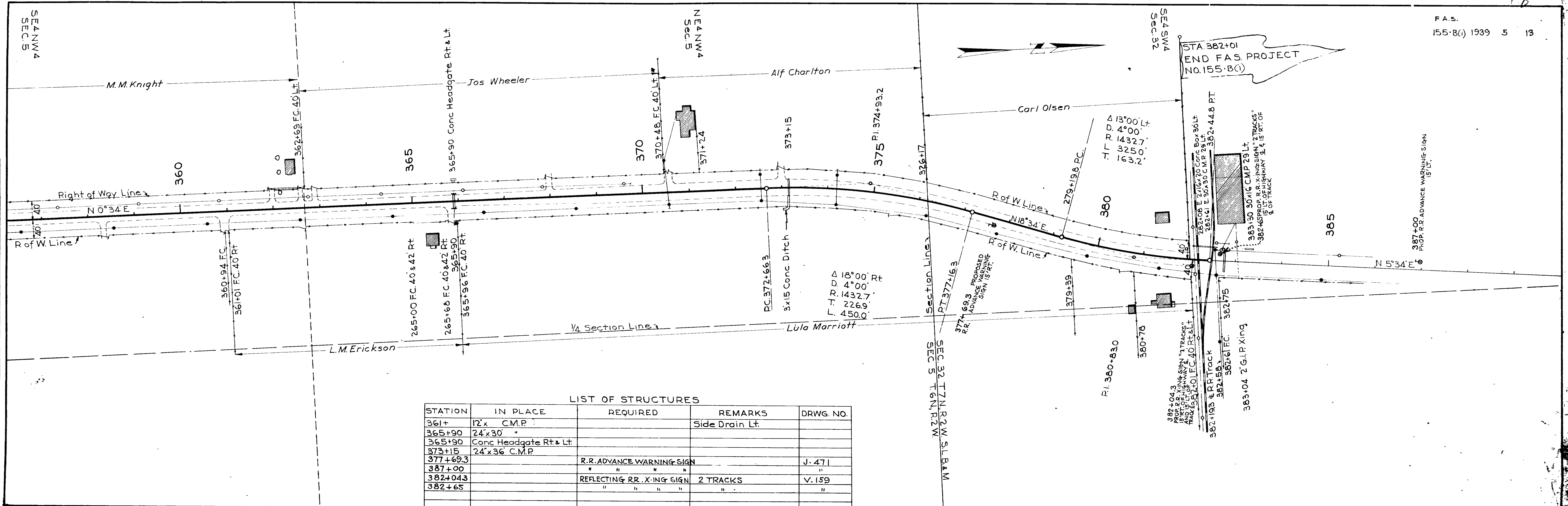
STATION	IN PLACE	REQUIRED	REMARKS	DRWG. NO.
337+59	16x16x55 Wd. Deck Conc. Abuts.	7/8' Clear Span Rigid Frame Br.		v-62-R-1, D-433, 65H
349+15	24x30 C.M.P.			
349+15	8x8 Conc. Diversion Box Lt.			
349+77	12' x 38' C.M.P.			
356+06	15 x 58'			



Embankment 234  
 Excavation 0  
 Remarks 338+ owner will move utility pole at their expense on rt.

PLAN	SURVEYED	BY	DATE
NOTE BOOK	ALIGNED	W.E.M.	1938
NO. 39,63	CHECKED	F.B.P.	1938
	RECORDED	F.B.P.	1938

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	ALIGNED	W.E.M.	1938
NO. 39,63	CHECKED	F.B.P.	1938
	RECORDED	F.B.P.	1938



LIST OF STRUCTURES

STATION	IN PLACE	REQUIRED	REMARKS	DRWG. NO.
361+	12' x C.M.P.		Side Drain Lt.	
365+90	24' x 30'			
365+90	Conc Headgate Rt & Lt			
373+15	24' x 36' C.M.P.			
377+69.3		R.R. ADVANCE WARNING SIGN		J. 471
387+00		" " " " " "		"
382+04.3		REFLECTING RR. XING SIGN	2 TRACKS	V. 159
382+65		" " " " " "		"

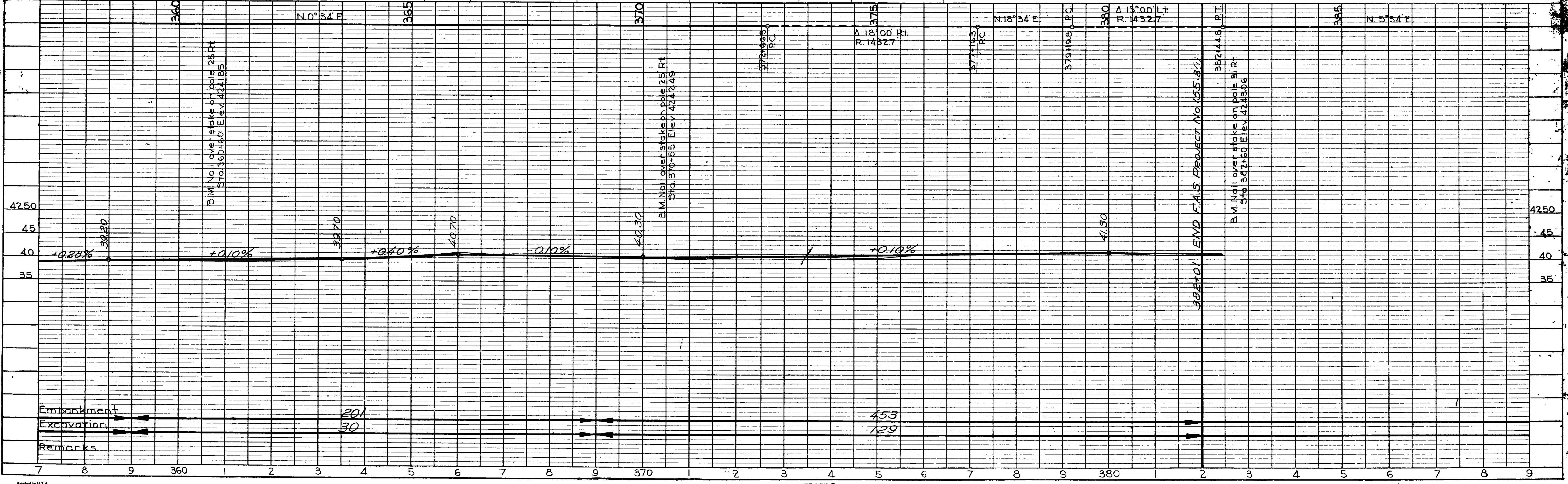
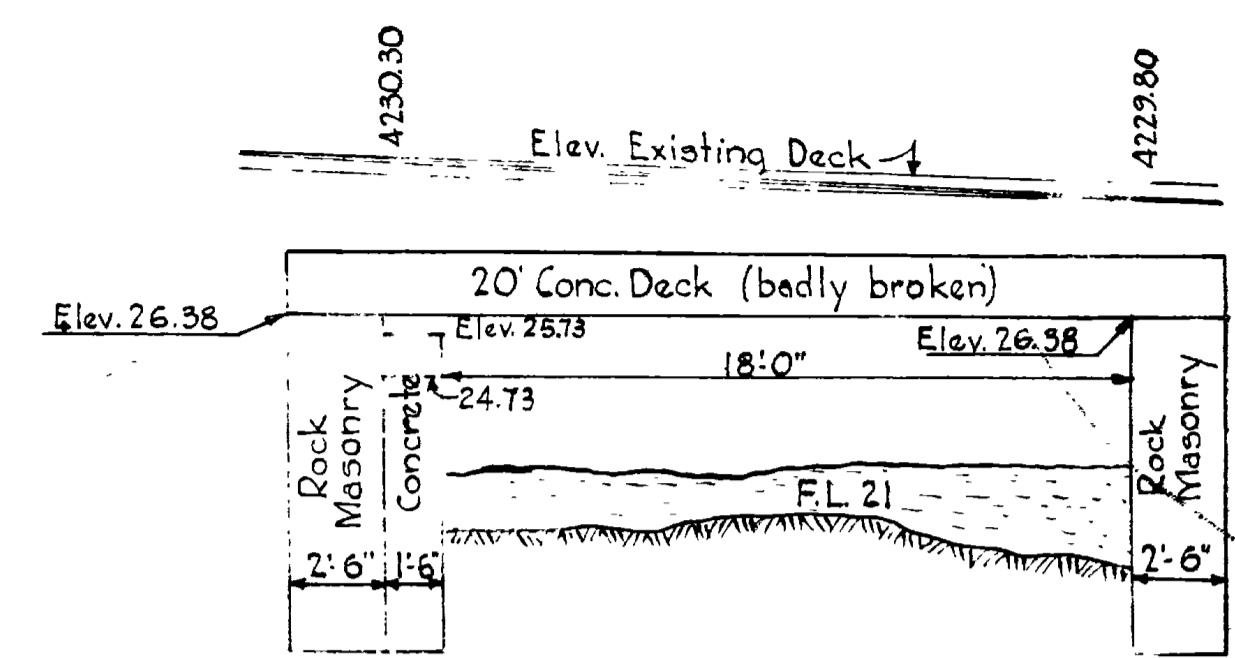
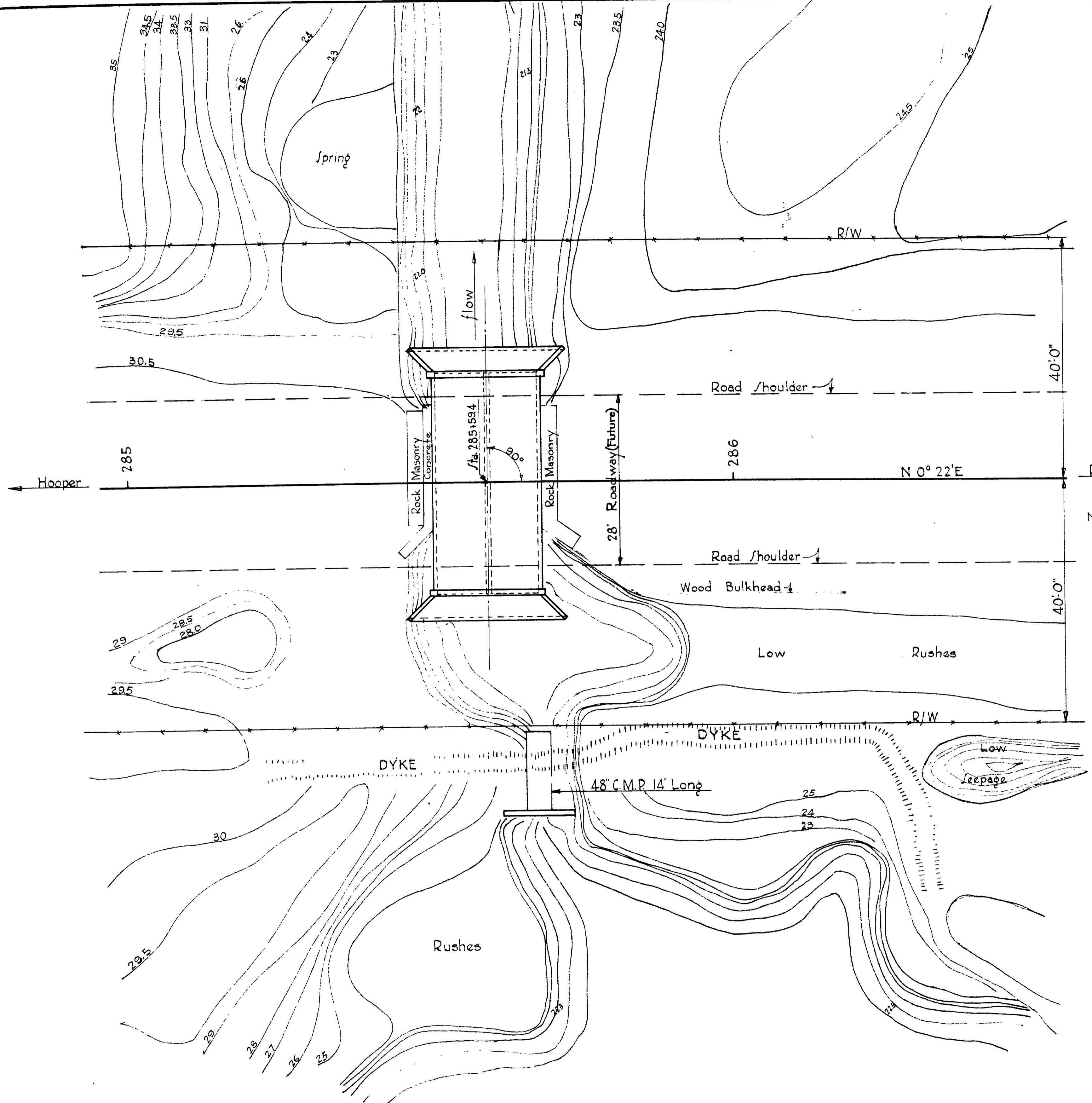
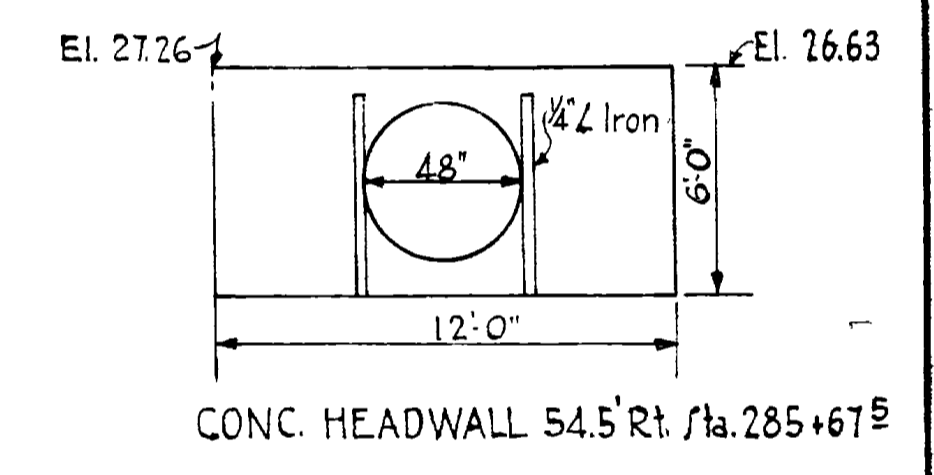


PLATE I-PLAN-PROFILE R. P. R. STANDARD  
EUGENE DIETZGEN CO., CHICAGO, ILL.

FED. ROAD DIST. NO.	STATE	F.A.S. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	155			



BRIDGE ABUTMENTS EAST SECTION  
1" = 5'-0"  
Note: Concrete Abutment above Elev. 24.73 broken



REVISIONS	DATE	BY

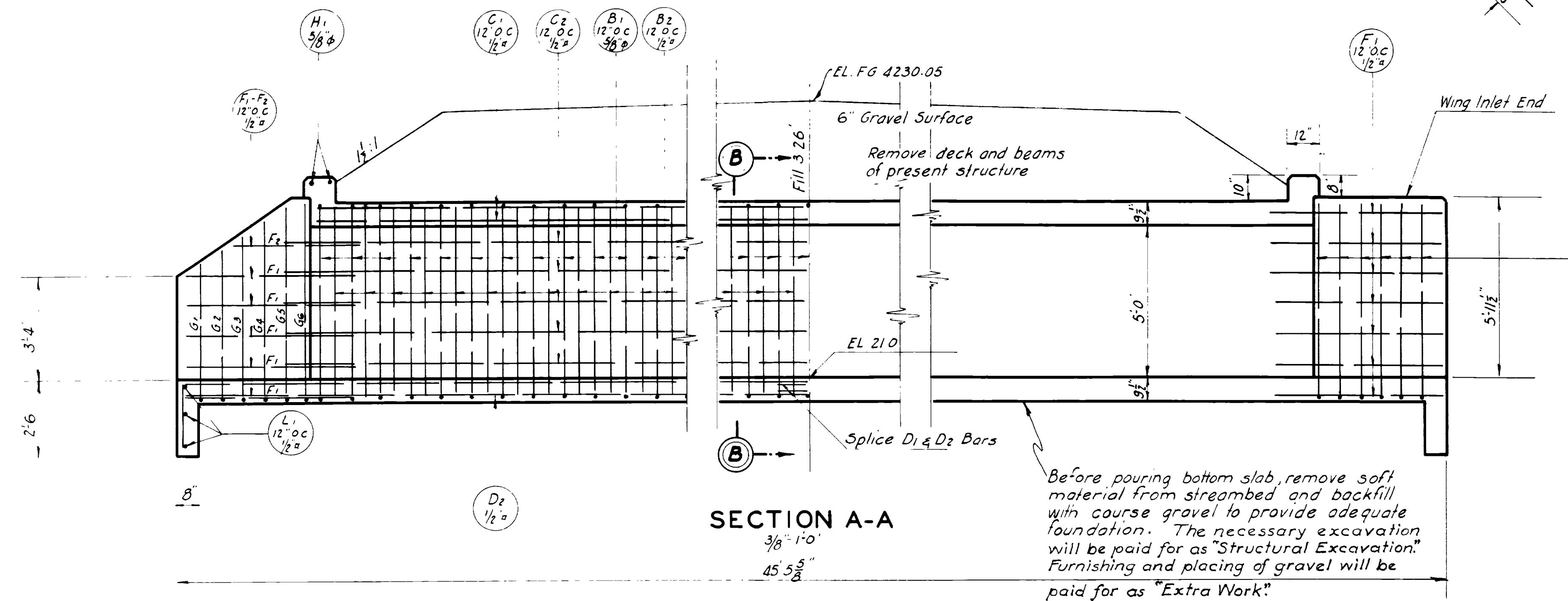
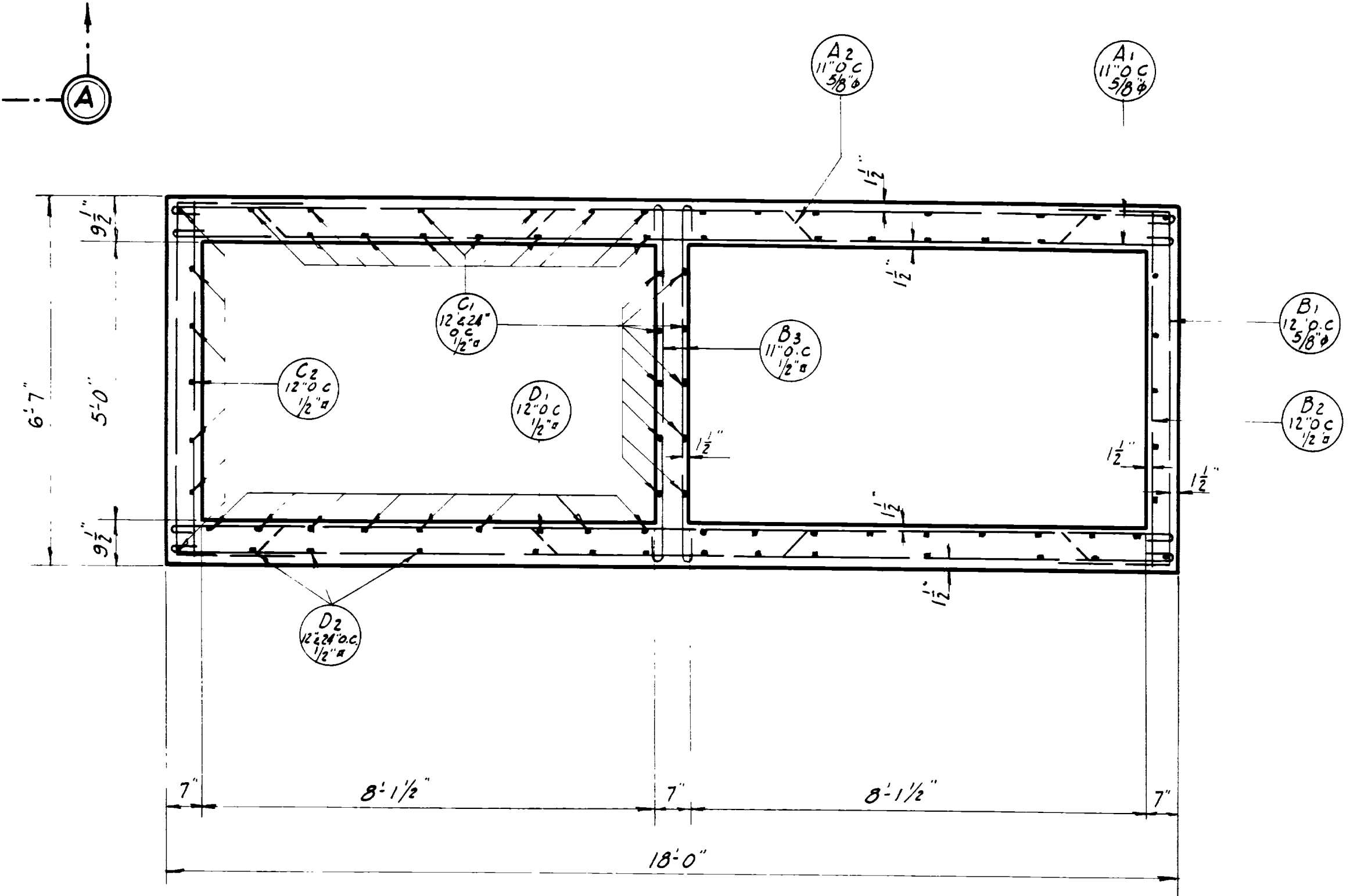
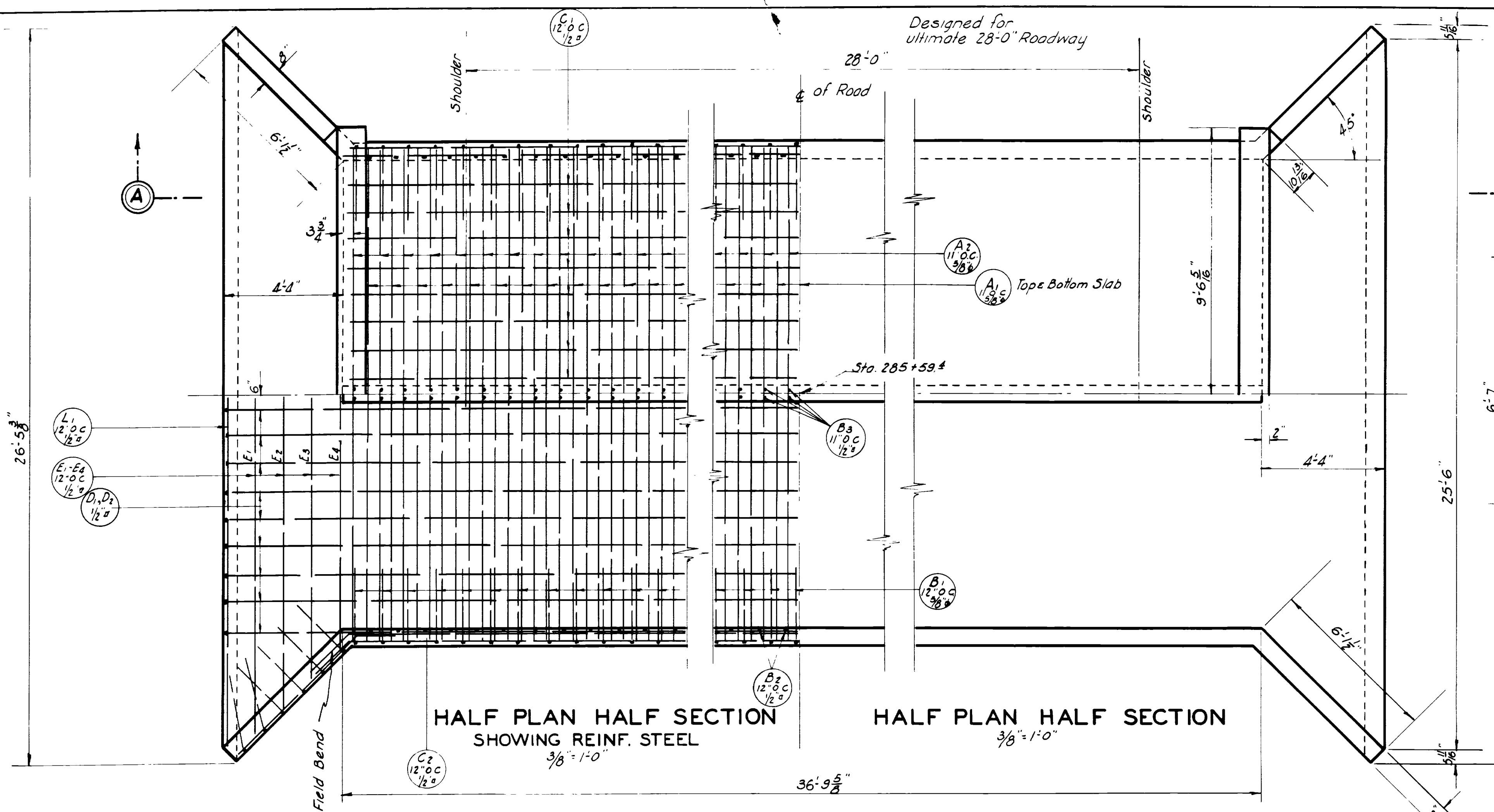
UTAH STATE ROAD COMMISSION  
SALT LAKE CITY - UTAH  
K. C. WRIGHT - CHIEF ENGINEER

SITUATION PLAN  
DOUBLE 8'-1 1/2" x 5'-0" BOX  
Sta. 285+59.4 F.A.S. 155  
Hooper-Plain City - Weber Co.

DESIGNED BY: \_\_\_\_\_ SCALE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_ ISSUED: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_ APPROVED: \_\_\_\_\_  
EXAMINED BY: \_\_\_\_\_ CHIEF BRIDGE ENGINEER

To Accompany  
BRIDGE NO. \_\_\_\_\_ DRG. NO. E-585

FED. ROAD DIST. NO.	STATE	F.A.S. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
12	UTAH	155			



**GENERAL NOTES**  
 All concrete to be class A and is to be kept moist 14 days after pouring. All exposed edges to be chamfered 3/4". Reinforcing steel to be deformed bars overlapped not less than 50 diameters at all splices, secured against displacement by wiring at all intersections with #16 ga iron wire. Reinforcing steel shall have a minimum of 1" clear cover of concrete and shall fulfill the requirements of the A.A.S.H.O. specifications.  
 Bar diagrams are not drawn to scale and those bars not detailed are either straight or field bent. All dimensions are to  $\phi$  of bars unless otherwise shown.

**DESIGN DATA**  
 Live Load: H-15 Loading A A.S.H.O. Specifications of 1935  
 Dead Load: Gravel 120#/cu. ft. Earth 100#/cu. ft. Concrete 150#/cu. ft.  
 Stresses: Concrete Ultimate 3000 #/sq. in.  $f_c = 900$  #/sq. in. Steel  $f_s = 16000$  #/sq. in.

**QUANTITIES**

Concrete Class A	64	cu yds.
Cement	403	sacks
Reinforcing Steel	10,102	Lbs
Structural Excavation	40	cu yds.

Sheet 1 of 2 Sheets

UTAH STATE ROAD COMMISSION  
 SALT LAKE CITY, UTAH  
 K. C. WRIGHT - CHIEF ENGINEER

**DOUBLE CONC. BOX**  
 8'-1 1/2" X 5'-0"  
 HOOPER- PLAIN CITY WEBER CO  
 STA 285 + 59.4 F.A.S. 155

DESIGNED BY: C.G.W. SCALE: As Shown  
 DRAWN BY: C.G.W. ISSUED: Feb. 9, 1937.  
 CHECKED BY: K.W.T. APPROVED: [Signature] CHIEF ENGINEER  
 EXAMINED BY: [Signature] CHIEF BRIDGE ENGINEER

BRIDGE NO. DRG. NO. E- 585

