CHIEF DRAFTSM.	LOCATING ENG'R.	BRIDGE ENG'R.	DIVISION ENG'R.	CONSTRUCTION ENG'R.	B.P.R.
GLK	HOE	HXW	J.P.G.	JJS	

3-9-40

FED. ROAD DIST. NO.	STATE	STATE AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.	920-A & B.	1940	1	118

GRADE CROSSINGS ____ 0
GRADE CROSSINGS ELIMINATED ____ 0
BY SEPARATION { OVERPASS ____ 0 / UNDERPASS ____ 0 }
BY RELOCATION ____ 0
GRADE CROSSINGS REMAINING ____ 0

STATE OF OKLAHOMA
DEPARTMENT OF HIGHWAYS

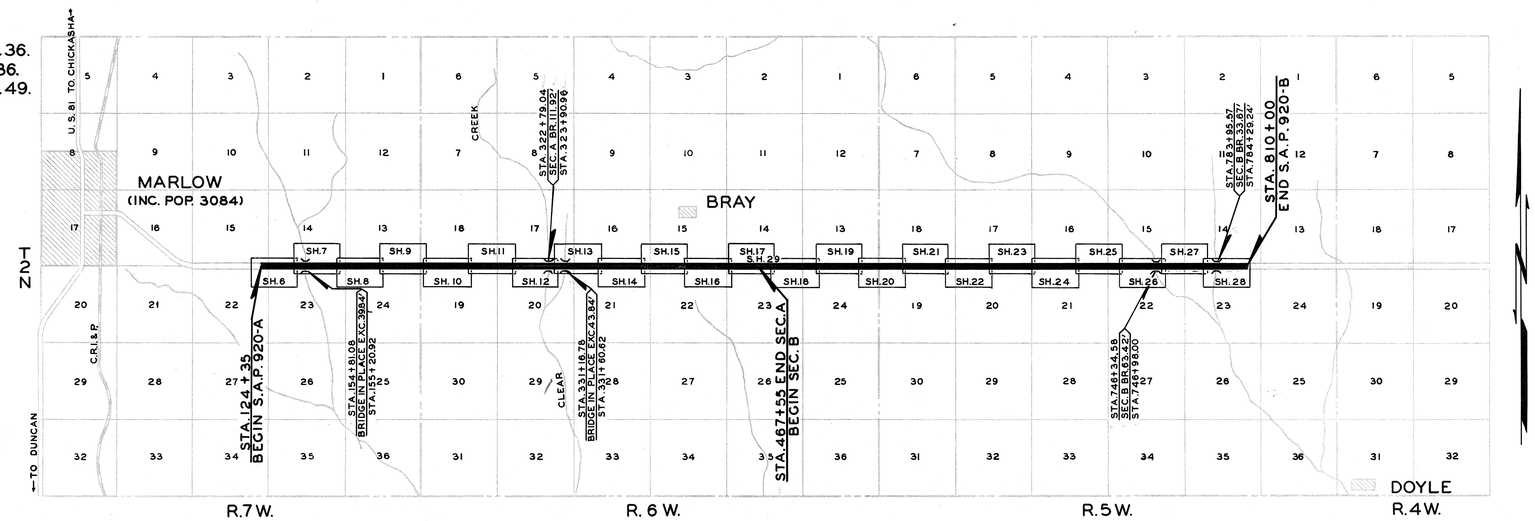
PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
STATE AID PROJECT NO. 920 A&B

STATE HIGHWAY NO. 29 - 69-12

STEPHENS COUNTY

INDEX OF SHEETS

SHEET NO. 1 TITLE SHEET.
" " 2 TYPICAL GRADING & SURFACING SECTIONS.
" " 3 OKLA. STATE HIGHWAY COMMISSION STDS.
" " 4 SUMMARY SHEET, SEC. A.
" " 5 " " , SEC. B.
" 6-28 PLAN, PROFILE SHEETS.
" " 29 METAL PLATE GUARD RAIL STD.
" " 30 CREOSOTED TIMBER FLUME.
" " 31 " " DITCH CHECKS, TDC-1.
" " 32 " " SIDE DRAINS, TSD-1.
" " 33 REINF. CONC. CHECKS.
" " 34 STANDARD CP2.
" " 35 " CP3.
" " 36 " BC5.
" " 37 " $BC5_2$.
" " 38 " $BC5A_2$.
" " 39 " $BC6_2$.
" " 40 " $BC6S_1$L.F.
" " 41 " CD1.
" " 42 GEN. ELEV. & PLAN STR. No. 36.
" " 43 GEN. DETAILS OF STR. No. 36.
" " 44 GEN. ELEV. & PLAN STR. No. 49.
" " 45 STANDARD BC9.
" " 46 " BC9-1.
" " 47 " IB-6.
" " 48 " CT-6.
" 49-118 CROSS SECTION SHEETS.



SCALES

PLAN 1" = 100'
PROFILE { HOR. 1" = 100' / VER. 1" = 10' }
CROSS SECTIONS 1" = 5'
LAYOUT MAP 1" = 5000'

CONVENTIONAL SIGNS

- PROPOSED ROAD
- RAILROADS
- RANGE & TOWNSHIP LINES
- SECTION LINES
- QUARTER SECTION LINES
- FENCES
- BASE LINE
- RIGHT-OF-WAY LINES
- GROUND LINES
- GRADE LINE
- TRAVELLED ROADS
- CULVERTS & BRIDGES
- TELEPHONE & TELEGRAPH
- POWER LINES
- BUILDINGS
- UNLOADING POINTS
- OIL WELLS
- RIGHT OF WAY MARKERS

SEC. A

ROADWAY LENGTH	34,124.40 FT.	6.462 MI.
BRIDGE LENGTH	111.92 FT.	0.021 MI.
PROJECT LENGTH		6.483 MI.
EQUATIONS		NONE
EXCEPTIONS	2 BRIDGES IN PLACE	83.68 FT.

SEC. B

ROADWAY LENGTH	34,147.91 FT.	6.467 MI.
BRIDGE LENGTH	97.09 FT.	0.018 MI.
PROJECT LENGTH		6.485 MI.
EQUATIONS		NONE
EXCEPTIONS		NONE

6-11-40

EXAMINED AND APPROVED
This ____ Day of ____ 1940
DIVISION ENGINEER

EXAMINED AND APPROVED
This ____ Day of ____ 1940
ENGINEER OF DESIGN

EXAMINED AND APPROVED
This ____ Day of ____ 1940
CHIEF ENGINEER

EXAMINED AND APPROVED
This ____ Day of ____ 1940
CHAIRMAN
STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL
This ____ Day of ____ 1940
SENIOR HIGHWAY ENGINEER
BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL
This ____ Day of ____ 1940
DISTRICT ENGINEER
BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL
CHIEF ENGINEER
BUREAU OF PUBLIC ROADS

APPROVED
CHIEF OF BUREAU OF PUBLIC ROADS

S.A. SPECIAL PROVISIONS GOVERN AND
STATE STANDARD SPECIFICATIONS GOVERN APPROVED NOV. 1 1937.

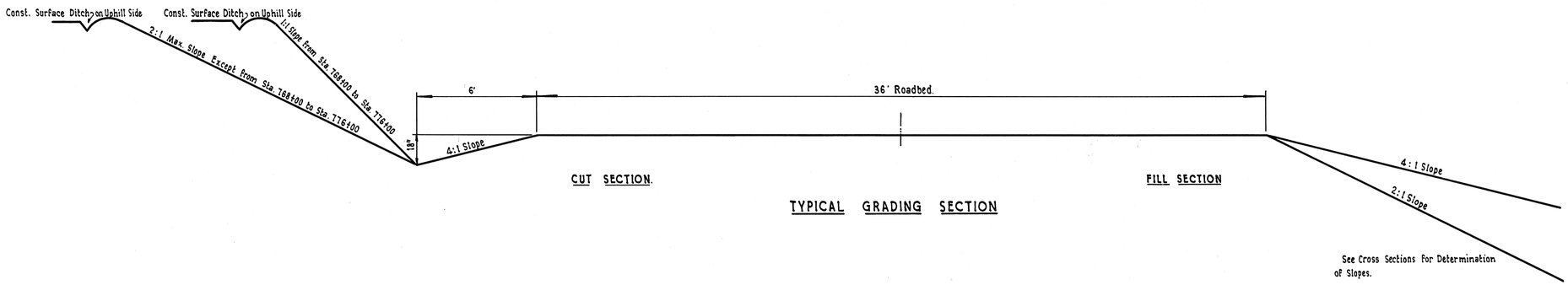
MORRISON

3-18-40 RDP

POST 7416—300—7-38

FED. ROAD DIST. NO.	STATE	STATE AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.	920-A & B.	1940	2	118

TYPICAL GRADING & SURFACING SECTIONS 36' RDBD.

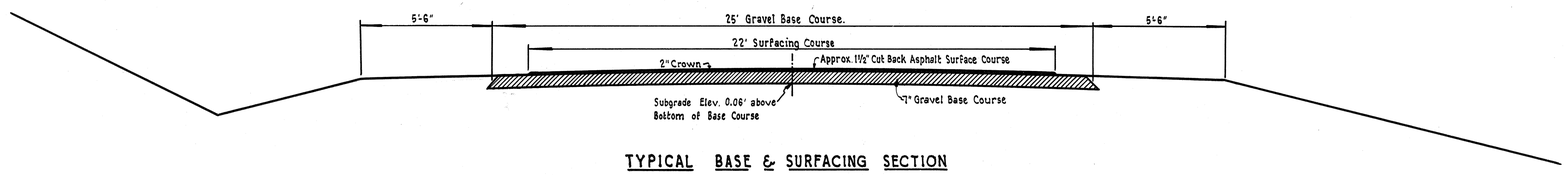


CUT SECTION.

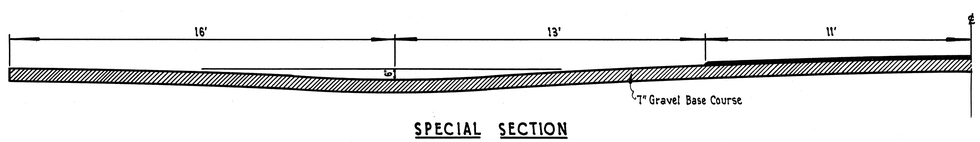
FILL SECTION

TYPICAL GRADING SECTION

See Cross Sections for Determination of Slopes.



TYPICAL BASE & SURFACING SECTION



SPECIAL SECTION

From Sta. 420+29 to Sta. 425+20 on Lt.

From Sta. 559+25 to Sta. 562+25 on Rt.

From Sta. 708+48 to Sta. 710+75 on Lt.

FED. ROAD DIST. NO.	STATE	STATE AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.	920-A	1960	4	118

SUMMARY SHEET.

S.A.P. 920-A.

The cost of removal of endwalls and one additional foot of old barrel on each end of box culverts extended shall be included in price bid for Class "A" Conc.

The cost of removal of endwalls and end joint of pipe on each end of pipe culverts extended shall be included in price bid per Lin. Ft. of pipe.

Red bed and soft sandstone cuts shall be subgraded by scarifying and pulverizing to a depth of 12" below subgrade elevation. Pieces in excess of 5" in diameter shall be removed. Quantities shall be allowed for subgrading but no backfill quantities will be allowed on this type of work.

METAL PLATE GUARD RAIL

P.&P. SHEET NO.	LOCATION	LIN. FT.
7	154+29 ~ 154+79 on Rt. & Lt.	100
7	155+23 ~ 155+73 on Rt. & Lt.	100
12	322+19 ~ 322+69 on Lt.	50
12	322+35 ~ 322+85 on Rt.	50
12	323+85 ~ 324+35 on Lt.	50
12	324+01 ~ 324+51 on Rt.	50
13	330+65 ~ 331+15 on Rt. & Lt.	100
13	331+62 ~ 332+12 on Lt.	50
13	331+62 ~ 331+87 on Rt.	25
	TOTAL	575

GUIDE POSTS

P.&P. SHEET NO.	LOCATION	NUMBER
10	268+00 ~ 270+00 on Lt.	11
10	268+60 ~ 269+60 on Rt.	6
12	304+20 ~ 305+60 on Lt.	8
12	319+00 ~ 320+00 on Lt.	6
12	318+95 ~ 322+15 on Rt.	17
14	388+00 ~ 390+40 on Rt. & Lt.	26
16	428+00 ~ 429+40 on Rt. & Lt.	16
17	460+00 ~ 462+20 on Rt.	12
17	461+00 ~ 462+00 on Lt.	6
17	466+00 ~ 467+40 on Rt.	8
17	466+00 ~ 467+00 on Lt.	6
	TOTAL	122

DRAINAGE STRUCTURES.

STR. NO.	P.&P. SHEET NO.	STATION	DESCRIPTION	DESIGN	DESIGN SHEET NO.	STRUCT. EXC. Cu.Yds.	CREO. STRUCT. TIMBER F.B.M.	CLASS "A" CONC. Cu.Yds.	REINF. STEEL Lbs.	REINF. CONC. PIPE Lin.Ft. 18"	24"	30"	BIT. COATED CORR. METAL PIPE Lin.Ft. 18"	24"	30"	PIPE RAILING Lin.Ft.	REMOVE & RELAY 18" R.C.P. Lin.Ft.	REMARKS
1	6	128+50	18"x20' C.M.P. Flume on Rt 45°W Upstream	CP2	34	6		.70	14				20					Nothing in Place
2	6	129+29	Extend 9' Rt. & 7' Lt.	BC 5_2	37	34		42.21	3058									8x7 R.C.B. in Place
3	6	129+83	30"x26'-4" Rdy. R.C.P. S.D.Lt. 90°W.	CP2	34	10		6.10	60			28						Remove 18" R.C.P.
4	6	145+89	3x1x20' Timb. S.D. Rt.	TSD-1	32		441											" " 2.5x1' Wd. Box.
5	7	153+74	24"x40' C.M.P. Flume on Rt 45° W. Upstream	CP2	34	8		.96	28					40				Nothing in Place
6	7	154+50	30"x30' " " " Lt. " " " "	CP2	34	10		1.25	31						30			" " " "
7	7	155+50	24"x30' " " " Rt " " " "	CP2	34	8		.96	28					30				" " " "
8	7	160+25	3x1x20' Timber S.D. Rt.	TSD-1	32		441											" " " "
9	7	160+60	2x1x20' " " " Lt.	TSD-1	32		354											" " " "
10	7	169+34	Extend 2' Rt.	BC $5A_2$	38	11		7.48	540									Dbl. 5x3 R.C.B. in Place
11	7	177+18	4x2x20' Rdy. R.C.B. S.D.Lt.	BC5	36	19		9.37	839									Remove 11x1.5' Wd. Box.
12	8	182+46	24"x26'-4" Rdy. R.C.P. S.D. Rt. 90°W.	CP2	34	8		4.38	52		28							" " 4x1.5' " "
13	8	189+33	Dbl. 3x1x20' Timber S.D.Lt.	TSD-1	32		750											Nothing in Place
14	8	196+19	Dbl. 3x1x20' " " " Lt.	TSD-1	32		750											" " " "
15	8	201+93	2x1x20' Timber S.D. Rt.	TSD-1	32		354											" " " "
16	8	202+62	Dbl. 3x1x20' " S.D. Lt.	TSD-1	32		750											" " " "
17	9	209+05	2x1x20' " " " Rt.	TSD-1	32		354											" " " "
18	9	211+24	2x1x20' " " " Lt.	TSD-1	32		354											" " " "
19	9	211+82	2x1x20' " " " Rt.	TSD-1	32		354											" " " "
20	9	224+60	2x1x20' " " " Rt.	TSD-1	32		354											" " " "
21	9	228+27	2x1x20' " " " Lt.	TSD-1	32		354											" " " "
22	9	235+76	3x2x26' Rdy. R.C.B. S.D. Rt.	BC5	36			8.89	782									Remove 18" R.C.P.
23	9	235+76	Remove & Relay 18"x26'-4" Rdy. R.C.P. ~ S.D.Lt ~ 90°W.	CP2	34	14		2.98	42								28	Obtain any Necessary Add. Pipe From S.D. Rt.
24	9	237+22	4x2x20' Rdy. R.C.B. ~ S.D. Rt.	BC5	36	24		9.37	839									Remove 8x2 Wd. Box.
25	10	241+14	Ext. 5' Rt. & 5' Lt. with Std. D.I. ~ Wier 2' Above F.L.	$BC5_2$ & CDI	37-41	16		14.12	1135									5x4 R.C.B. in Place
26	10	241+14	2'-6"x10' Conc. Ditch Chk. 45° Lt. B=10'	No.2	33	4		1.77	269									Nothing in Place
27	10	248+56	Ext. 6' Rt. & 4' Lt. with Std. D.I. ~ Wier 2' Above F.L.	$BC5_2$ & CDI	37-41	12		7.74	680									3x3 R.C.B. in Place
28	10	248+56	30"x20' C.M.P. Flume on Lt. 45° W. Upstream.	CP2	34	10		1.25	31						20			Nothing in Place.
29	10	256+06	3x1x20' Timber S.D. Rt.	TSD-1	32		441											Remove 24" C.M.P.
30	10	263+43	Dbl. 3x1x20' " " Rt.	TSD-1	32		750											" " 4x2 Wd. Box.
31	10	269+00	24"x40' C.M.P. Flume on Lt 45° W. Upstream	CP2	34	8		.96	28					40				Nothing in Place.
32	10	269+26	Ext. 15' Lt. with 15' D.I. on Rt.	$BC5_2$ & CDI	39-41	16		14.06	1265							15.0		3x3 R.C.B. in Place
33	11	278+36	Ext. 4' Rt. & 4' Lt. 45°W.	CP2	34	6		2.50	62			16						30" R.C.P. in Place
34	11	283+60	Ext. 4' Rt. & 4' Lt. 45°W.	CP2	34	5		1.92	56		16							24" " " "
35	12	304+91	Ext. 28' Rt. & 51' Lt. with 4' D.I. 2 Sills	$BC5_2$ & CDI	39-41	32		22.47	2246									3x2 R.C.B. in Place
36	12	323+35	*See Sec. "A" Bridges.*															
37	13	331+00	18"x20' C.M.P. Flume on Lt. 45° W. Upstream	CP2	34	8		.70	14				20					Nothing in Place.
38	13	331+85	18"x20' " " on Rt " " " "	CP2	34	6		.70	14				20					" " " "
38a.	13	331+85	18"x20' " " on Lt. " " " "	CP2	34	6		.70	14				20					" " " "
39	13	332+13	3x1x20' Timb. S.D. Rt.	TSD-1	32		441											" " " "
40	13	341+27	Ext. 8' Rt. & 8' Lt. 90°W.	CP2	34	7		6.10	60			24						30" R.C.P. in Place
41	14	363+24	Ext. 4' Rt. & 17' Lt.	$BC5_2$	37	22		11.47	910									3x3 R.C.B. " "
42	14	367+15	3x1x20' Timb. S.D. Lt.	TSD-1	32		441											Remove 10x2 Wd. Box.
43	14	367+40	3x1x20' " " Rt.	TSD-1	32		441											Nothing in Place
44	14	377+11	Ext. 4' Rt. & 4' Lt. 45°W.	CP2	34	4		2.50	62			16						30" R.C.P. in Place
45	14	388+20	18"x20' C.M.P. Flume on Rt. 45°W. Upstream	CP2	34	6		.70	14				20					Nothing in Place
46	14	388+20	18"x40' " " " on Lt. " " " "	CP2	34	6		.70	14				40					" " " "
47	14	389+36	Ext. 6' Rt. & 8' Lt.	$BC6_2$	39	12		11.48	900									4x3 R.C.B. in Place.
48	15	390+00	18"x30' C.M.P. Flume on Rt. 45° W. Upstream.	CP2	34	6		.70	14				30					Nothing in Place
49	15	390+00	18"x30' " " " on Lt. " " " "	CP2	34	6		.70	14				30					" " " "
50	15	393+83	Remove & Relay 18"x26'-4" Rdy. R.C.P. ~ S.D. Rt. ~ 90°W.	CP2	34	9		2.98	42								28	Obtain any Necessary Add. Pipe Rt. Sta. 235+76
51	15	393+83	18"x26'-4" Rdy. R.C.P. S.D. Lt. 90°W.	CP2	34	12		2.98	42	28								Nothing in Place
52	15	403+99	Ext. 12' Rt. 45°W.	CP2	34	5		1.25	31			16						30" R.C.P. in Place
53	16	420+07	Ext. 21' Rt.	$BC5_2$	37	21		12.50	1171									6x2 R.C.B. in Place
54	16	420+47	5x2x36' Rdy. R.C.B S.D. Rt.	BC5	36	25		16.67	1539									Remove 30" G.I.P.
55	16	428+20	Dbl. 30"x50' C.M.P. Flume on Rt. 45° W. Upstream	CP3	35	10		1.70	88						100			Nothing in Place
56	16	428+99	Ext. 32' Rt. 1 Sill	$BC6_2$	39	48		82.83	5950									10x10 R.C.B. in Place.
57	16	429+50	18"x50' C.M.P. Flume on Rt. 45° W. Upstream	CP2	34	6		.70	14				50					Nothing in Place
58	16	429+50	18"x50' " " on Lt. " " " "	CP2	34	6		.70	14				50					" " " "
59	16	430+12	2x1x20' Timb. S.D. Rt.	TSD-1	32		354											" " " "
60	16	432+12	2x1x20' " " Lt.	TSD-1	32		354											" " " "
61	16	437+10	2x1x30' " " Lt.	TSD-1	32		516											" " " "
62	16	444+88.5	Ext. 10' Rt. & 5' Lt.	$BC5_2$	37	16		11.80	934									4x3 R.C.B. in Place
63	16	447+34	Ext. 9' Rt. & 9' Lt.	$BC5A_2$	38	13		22.23	1954									2-5x2 " " "
64	17	461+00	18"x30' C.M.P. Flume on Rt. 45° W. Upstream.	CP2	34	6		.70	14				30					Nothing in Place
65	17	461+38	Ext. 11' Rt. with 8' D.I. on Lt.	$BC6_2$ & CDI	39-41	21		20.67	1562							23.0		5x5 R.C.B. in Place
66	17	466+62	Ext. 8' Rt. & 9' Lt.	$BC6_2$	39	32		19.03	1388									5x4 " " "
67	17	467+00	18"x30' C.M.P. Flume on Rt. 45° W. Upstream.	CP2	34	6		.70	14				30					Nothing in Place.
		TOTAL.				598	9348	395.33	28,932	28	44	100	360	110	150	38	56	

GRADING QUANTITIES.

P.&P. SHEET NO.	STATION TO STATION	EMB. +20% Cu.Yds.	CLASS "D" EXC. Cu.Yds.	WASTE Cu.Yds.	OVERHAUL Sec.Yds.	LAID UP RIP-RAP Sq.Yds.
6	124+35 ~ 145+00	4148	4436		300	
7	145+00 ~ 179+00	5363	6638		2150	930
8	179+00 ~ 208+00	3414	3544			
9	208+00 ~ 239+00	2739	2739			
10	239+00 ~ 267+00	3024	3024			
11	267+00 ~ 300+00	6033	6033			
12	300+00 ~ 333+00	30051	37070	5838	18600	
13	333+00 ~ 357+00	1513	1513			
14	357+00 ~ 389+00	3075	3075		200	
15	389+00 ~ 421+00	4576	4576		710	
16	421+00 ~ 447+00	6658	6658		1690	
17	447+00 ~ 467+55	2346	1811		460	
	TOTAL.	72,940	81,177	5,838	24,110	930

CREO. TIMB. DITCH CHECKS.

P.&P. SHEET NO.	LOCATION	TOTAL NO.	TYPE	W.	DESIGN	DESIGN SHEET NO.	CREO. COMMON TIMBER F.B.M.	PLAIN RIP-RAP Cu.Yds.
6	124+35 ~ 127+50 on Rt. & Lt.	24	2-A	0	TDC-1	31	1368	4.8
6	144+50 ~ 153+00 on Rt. & Lt.	44	"	0	" "	"	2508	8.8
7	160+50 ~ 163+00 on Rt. & Lt.	18	"	0	" "	"	1026	3.6
7	171+50 ~ 176+00 on Rt. & Lt.	8 on Rt. 8 on Lt.	"	0 8	" "	"	954	3.6
9	235+95 on Rt.	1	"	12	" "	"	165	0.7
10	264+00 ~ 268+50 on Rt.	8	"	10	" "	"	1176	4.8
10	264+00 ~ 267+00 on Lt.	6	"	10	" "	"	882	3.6
12	311+00 ~ 317+00 on Rt. & Lt.	46	"	0	" "	"	2622	9.2
13	343+00 ~ 360+00 on Rt.	9	"	0	" "	"	513	1.8
14	385+50 ~ 388+00 on Lt.	4	"	0	" "	"	228	0.8
15	390+50 ~ 393+00 on Rt. & Lt.	8	"	0	" "	"	456	1.6
15	416+50 ~ 420+00 on Lt.	5	"	0	" "	"	285	1.0
15	418+00 ~ 420+00 on Rt.	3	"	0	" "	"	171	0.6
16	422+50 ~ 426+50 on Rt.	6	"	6	" "	"	666	2.6
16	432+00 ~ 435+00 on Rt.	6	"	0	" "	"	342	1.2
	TOTAL.						13,362	48.7

CREO. TIMB. FIELD CHECKS & FLUMES.

P.&P. SHEET NO.	STATION	DESCRIPTION	DESIGN	DESIGN SHEET NO.	CREO. COMMON TIMBER F.B.M.	PLAIN RIP-RAP Cu.Yds.
6	133+11	3'x6"x20' Creo. Timb. Flume on Lt.	Special	30	268	.21
6	133+93	3'x6"x20' " " " " " Lt.	" "	"	268	.21
6	144+50	3'x6"x20' " " " " " Rt.	" "	"	268	.21
6	145+20	3'x6"x20' " " " " " Lt.	" "	"	268	.21
6	146+16	5'x6"x20' " " " " " Lt.	" "	"	375	.35
6	147+05	3'x6"x20' " " " " " Lt.	" "	"	268	.21
7	151+41	3'x6"x20' " " " " " Lt.	" "	"	268	.21
7	152+16	3'x6"x20' " " " " " Lt.	" "	"	268	.21
7	160+81	3'x6"x20' " " " " " Rt.	" "	"	268	.21
7	162+06	3'x6"x20' " " " " " Rt.	" "	"	268	.21
7	163+49	5'x6"x20' " " " " " Rt.	" "	"	375	.35
9	238+33	4'x6"x20' " " " " " Rt.	" "	"	322	.28
9	239+20	5'x1'x20' " " " " " Rt.	" "	"	415	.35
10	245+39	20' Creo. Timb. Field Chk. on Rt.	TDC-1	31	184	.65
10	252+40	10' " " " " " Rt.	" "	"	94	.25
10	254+88	10' " " " " " Rt.	" "	"	94	.25
10	256+86	10' " " " " " Lt.	" "	"	94	.25
10	260+25	10' " " " " " Lt.	" "	"	94	.25
10	261+56	6'x1'x20' Creo. Timb. Flume on Lt.	Special	30	463	.43
10	267+00	3'x6"x20' " " " " " Rt.	" "	"	268	.21
13	334+00	3'x6"x20' " " " " " Rt.	" "	"	268	.21
13	335+00	3'x6"x20' " " " " " Rt.	" "	"	268	.21
13	355+10	4'x6"x20' " " " " " Rt.	" "	"	322	.28
13	358+00	3'x6"x20' " " " " " Rt.	" "	"	268	.21
14	369+57	3'x6"x20' " " " " " Lt.	" "	"	268	.21
15	416+12	3'x6"x20' " " " " " Rt.	" "	"	268	.21
15	416+61	5'x1'x20' " " " " " Lt.	" "	"	415	.35
15	416+75	3'x6"x20' " " " " " Rt.	" "	"	268	.21
15	417+30	4'x6"x20' " " " " " Lt.	" "	"	322	.28
15	417+50	3'x6"x20' " " " " " Rt.	" "	"	268	.21
15	418+00	3'x6"x20' " " " " " Rt.	" "	"	268	.21
15	418+00	6'x6"x20' " " " " " Lt.	" "	"	429	.43
15	418+66	3'x6"x20' " " " " " Rt.	" "	"	268	.21
15	419+00	3'x6"x20' " " " " " Lt.	" "	"	268	.21
17	459+85	10' Creo. Timb. Field Chk. on Lt.	TDC-1	31	94	.25
	TOTAL				9458	9.20

PAY QUANTITIES SEC.A-RDY.

	ITEM NO.	ITEM	UNIT	QUANTITY
	202.06d.	Class "D" Excavation Unclassified	Cu. Yds.	81177
(1)	202.06e.	Rolling	Hour	1005
(2)	202.06F.	Sprinkling	M.Gal.	2260
	204.06	Overhaul	Sec. Yds.	24110
	207.06a.	Shoulders	Mile	6.462
	303.06	Gravel Base Course (7")	Sq. Yds.	96290
(3)	305.06a.	Rolling (Base Course)	Hour	985
(4)	305.06b.	Sprinkling (Base Course).	M.Gal.	2889
	501.06a.	Struct. Exc. Unclassified.	Cu. Yds.	598
	501.06e.	Creo. Struct. Timber	M.F.B.M.	9.348
	501.06F.	Creo. Common Timber	M.F.B.M.	22.820
	503.06a.	Class "A" Conc.	Cu. Yds.	395.33
	511.06	Reinf. Steel.	Lbs.	28932
	512.06c.	18" Reinf. Conc. Pipe.	Lin. Ft.	28
	512.06d.	24" Reinf. Conc. Pipe.	Lin. Ft.	44
	512.06e.	30" Reinf. Conc. Pipe	Lin. Ft.	100
	601.06	Plain Rip-Rap.	Cu. Yd.	57.9
	602.06	Laid Up Rip-Rap	Sq. Yd.	930
	622.06a.	Pipe Railing.	Lin. Ft.	38
	623.06c.	Metal Plate Guard Rail.	Lin. Ft.	575
	625.06b.	Right-of-Way Markers.	Each	148
(5)	626.06a.	Bermuda Tuft Sodding.	Sq. Yd.	136498
	Special	18" Bit. Coated Corr. Metal Pipe.	Lin. Ft.	360
	Special	24" Bit. Coated Corr. Metal Pipe	Lin. Ft.	110
	Special	30" Bit. Coated Corr. Metal Pipe.	Lin. Ft.	150
	Special	Remove & Relay 18" Reinf. Conc. Pipe.	Lin. Ft.	56
	Special	Guide Posts.	Each	122
(6)	Special	Cut Back Asphalt Mix No.3	Ton	6256
(7)	Special	Cut Back Asphalt for Prime Coat	Gal.	33177
(8)	Special	Cut Back Asphalt for Seal Coat	Gal.	16683
(9)	Special.	Aggregate for Seal.	Cu. Yds.	642
(10)	Special.	Water for Sodding	M. Gals.	1365

(1) Estimated at 75 C.Y. Emb. per Hour on 75,339 C.Y.
(2) " " " 30 Gal. per C.Y. Emb. on 75,339 C.Y.
(3) " " " 150 Hrs. per Mile.
(4) " " " 30 Gal. per Sq. Yd.
(5) " " " 400 Sq. Yds. per Sta.
(6) " " " 150 Lbs per Sq. Yd of Surface Course
(7) " " " 0.35 Gals. per Sq. Yd of Base Course
(8) " " " 0.20 Gals. per Sq. Yd of Surface Course
(9) " " " 1 C.Y per 130 Sq. Yds. of Surface Course.
(10) " " " 10 Gals. per Sq. Yd of Sodding.

PAY QUANTITIES SEC.A-BR.

Str. No. 36 ~ 4 Sta. 323+35 ~ Const. 30'-50'-30' I-Brm. Spans ~ 26' Rdy.
60° Skew. Rt. Fwd. ~ Des. IB-6 & CT-6 ~ Shs. No. 42, 43, 47, 48.

ITEM NO.	ITEM	UNIT	QUANTITY
202.06d.	Class "D" Exc.	Cu. Yds.	2,200
501.06b.	Substruct. Exc. Common	Cu. Yds.	80
501.06d.	Removal of Existing Structure.	Each	1
505.06	Reinf. Conc. Hand Rail	Lin. Ft.	226.5
506.06a.	Struct. Steel.	Lbs.	76,500
509.06a.	Class "A" Conc.	Cu. Yds.	94.6
509.06b.	Class "AA" Conc.	Cu. Yds.	81.7
511.06	Reinf. Steel.	Lbs.	24,550
514.06aa.	Reinf. Conc. Test Piles.	Each	2
514.06d.	Reinf. Conc. Piling.	Lin. Ft.	1,262

FED. ROAD DIST. NO.	STATE	STATE AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.	920-B.	1940	5	118

SUMMARY SHEET.

S.A.P. 920-B.

(1) Estimated at 15 C.Y. Emb per Hour on 74,130 C.Y.
(2) " " " 30 Gal. per C.Y. Emb. on 74,130 C.Y.
(3) " " " 150 Hrs. per Mile.
(4) " " " 30 Gal. per Sq.Yd.
(5) " " " 400 Sq.Yds. per Sta.
(6) " " " 150 Lbs. per Sq.Yd of Surface Course
(7) " " " 0.35 Gals. " " " " Base Course
(8) " " " 0.20 Gals " " " " Surface Course.
(9) " " " 1 C.Y. per 130 Sq.Yds of Surface Course
(10) " " " 10 Gals per Sq.Yd. of Sodding.

METAL PLATE GUARD RAIL.

P.&P. SHEET NO.	LOCATION	LIN. FT.
26	745+82 ~ 746+32 on Rt. & Lt.	100
26	747+00 ~ 747+50 on Rt. & Lt.	100
28	783+43 ~ 783+93 on Rt. & Lt.	100
28	784+31 ~ 784+81 on Rt. & Lt.	100
	TOTAL.	400

GUIDE POSTS

P.&P. SHEET NO.	LOCATION	NUMBER
19	516+00 ~ 518+00 on Rt. & Lt.	22
20	543+00 ~ 546+00 on Rt.	16
20	543+50 ~ 544+50 on Lt.	6
24	663+80 ~ 664+80 on Rt. & Lt.	12
24	682+60 ~ 683+60 on Lt.	6
	TOTAL	62

The cost of removal of endwalls and one additional foot of old barrel on each end of box culverts extended shall be included in price bid for Class "A" Conc.

The cost of removal of endwalls and end joint of pipe on each end of pipe culverts extended shall be included in price bid per Lin. Ft. of pipe.

Red bed and soft sandstone cuts shall be subgraded by scarifying and pulverizing to a depth of 12" below subgrade elevation. Pieces in excess of 5" in diameter shall be removed. Quantities shall be allowed for subgrading but no backfill quantities will be allowed on this type of work.

GRADING QUANTITIES.

P.&P. SHEET NO.	STATION TO STATION.	EMB.+20% Cu.Yds.	CLASS "D" EXC. Cu.Yds.	WASTE Cu.Yds.	OVERHAUL Sec.Yds.
18	467+55 ~ 507+00	4422	4357	535	2480
19	507+00 ~ 536+35	4509	4509		1490
20	536+35 ~ 569+00	4007	5132		1370
21	569+00 ~ 601+00	3226	3226		1010
22	601+00 ~ 628+00	2366	2366		880
23	628+00 ~ 664+30	11862	11862		7010
24	664+30 ~ 697+00	5231	6125		760
25	697+00 ~ 718+00	2138	2138		270
26	718+00 ~ 749+00	5701	6151		4210
27	749+00 ~ 785+00	21019	22129		19360
28	785+00 ~ 810+00	5638	6070		1900
	TOTAL.	70,185	74,665	535	40,740

PAY QUANTITIES SEC. B-RDY.

	ITEM NO.	ITEM	UNIT	QUANTITY
	202.06d.	Class "D" Exc. Unclassified	Cu. Yds.	74665
(1)	202.06e.	Rolling	Hour	988
(2)	202.06f.	Sprinkling	M.Gal.	2224
	204.06	Overhaul	Sec. Yds.	40740
	207.06	Shoulders.	Mile	6.467
	303.06	Gravel Base Course (7")	Sq. Yd.	96466
(3)	309.06a.	Rolling (Base Course).	Hour	981
(4)	309.06b.	Sprinkling (Base Course).	M.Gal.	2894
	501.06a.	Struct. Exc. Unclassified.	Cu. Yds.	666
	507.06e.	Creo. Struct. Timber	M.F.B.M.	3.981
	507.06f.	Creo. Common Timber.	M.F.B.M.	27.405
	509.06a.	Class "A" Conc.	Cu. Yds.	523.56
	511.06	Reinf. Steel.	Lbs.	37738
	512.06b.	15" Reinf. Conc. Pipe	Lin. Ft.	60
	512.06c.	18" Reinf. Conc. Pipe.	Lin. Ft.	92
	512.06d.	24" Reinf. Conc. Pipe.	Lin. Ft.	172
	512.06e.	30" Reinf. Conc. Pipe.	Lin. Ft.	236
	601.06	Plain Rip-Rap.	Cu. Yds.	93.19
	622.06a.	Pipe Railing	Lin. Ft.	69
	623.06c.	Metal Plate Guard Rail.	Lin. Ft.	400
	625.06b.	Right-of-Way Markers.	Each	171
(5)	626.06a.	Bermuda Tuft Sodding	Sq. Yds.	136592
	Special.	18" Bit. Coated Corr. Metal Pipe.	Lin. Ft.	350
	Special.	30" Bit. Coated Corr. Metal Pipe.	Lin. Ft.	16
	Special.	Remove & Relay 18" R.C.P.	Lin. Ft.	20
	Special.	Remove & Relay 24" R.C.P.	Lin. Ft.	28
	Special.	Remove & Relay 30" R.C.P.	Lin. Ft.	28
	Special.	Guide Posts.	Each	62
(6)	Special.	Cut Back Asphalt Mix No.3	Ton	6260
(7)	Special.	Cut Back Asphalt for Prime Coat.	Gal.	33199
(8)	Special.	Cut Back Asphalt For Seal Coat	Gal.	16695
(9)	Special.	Aggregate For Seal.	Cu. Yds.	642
(10)	Special.	Water For Sodding.	M. Gals.	1366

DRAINAGE STRUCTURES.

STR. NO.	P.&P. SHEET NO.	STATION	DESCRIPTION	DESIGN	DESIGN SHEET NO.	STRUCT. EXC. Cu.Yds.	CREO. STRUCT. TIMBER F.B.M.	CLASS "A" CONC. Cu.Yds.	REINF. STEEL Lbs.	REINF. CONC. PIPE Lin. Ft. 15"	18"	24"	30"	BIT. COATED CORR. METAL PIPE Lin. Ft. 18"	30"	REMOVE & RELAY. R.C.P. Lin. Ft. 18"	24"	30"	PIPE RAILING Lin. Ft.	REMARKS
1	17	473+03	2x1x20' Timber S.D. Rt.	TSD-1	32		354													Nothing in Place
2	18	486+79	Ext. 23' Rt. & 17' Lt. with Std. D.I.	$BC6_2$ & CDI	35-41	37		30.20	2564											5x4 R.C.B. in Place
3	18	491+88	2x1x20' Timb. S.D.Lt.	TSD-1	32		354													Nothing in Place
4	18	499+50	18"x26'-4" Rdy. R.C.P. S.D.Rt. 90° W.	CP2	34	7		2.98	42		28									Remove 2x1 Wd. Box.
5	18	499+50	Remove & Relay 18"x26'-4" Rdy. R.C.P. S.D.Lt. 90° W.	CP2	34	12		2.98	42		8					20				
6	18	503+64	Ext. 8' Rt. & 8' Lt. 45° W.	CP2	34	6		2.50	62			24								30" R.C.P. in Place
7	19	511+11	15"x20' R.C.P. S.D. Lt. No Hdwls.	CP2	34	2				20										Nothing in Place
8	19	511+30	15"x20' R.C.P. S.D. Rt. No Hdwls.	CP2	34	2				20										" " " "
9	19	514+00	18"x30' C.M.P. Flume on Rt. 45° W. Upstream	CP2	34	6		.70	14					30						" " " "
10	19	516+70	18" x 40' " " " " " Lt. " " "	CP2	34	6		.70	14					40						" " " "
11	19	517+01	Ext. 18' Rt. & 13' Lt.	$BC6_2$	35	44		103.10	7166											10x10 R.C.B. in Place
12	19	517+50	18"x 40' C.M.P. Flume on Rt. 45° W. Upstream	CP2	34	6		.70	14					40						Nothing in Place
13	19	517+60	18"x 40' " " " " " Lt. " " "	CP2	34	6		.70	14					40						" " " "
14	19	529+45	Ext. 12' Rt. & 8' Lt. 45° W.	CP2	34	5		2.50	62			28								30" R.C.P. in Place
15	19	537+29	Ext. 20' Rt. & 16' Lt. with 2' D.I. 45° W.	CP2 & CDI	34-41	11		2.18	149				44							24" " " "
16	20	543+13	18"x 50' C.M.P. Flume on Lt. 45° W. Upstream	CP2	34	6		.70	14					50						Nothing in Place.
17	20	543+15	18"x40' " " " " " Rt. " " "	CP2	34	6		.70	14					40						" " " "
18	20	544+20	Ext. 20' Rt. & 15' Lt.	$BC6_2$	35	50		76.17	5334											8x8 R.C.B. in Place
19	20	545+50	18"x 20' C.M.P. Flume on Rt. 45° W. Upstream.	CP2	34	6		.70	14					20						Nothing in Place
20	20	552+50	18"x 26'-4" Rdy. R.C.P. S.D. Rt. 90° W.	CP2	34	7		2.98	42		28									Remove 3x1 Wd. Box
21	20	552+50	18"x 26'-4" Rdy. R.C.P. S.D. Lt. 90° W.	CP2	34	7		2.98	42		28									Remove 1x1 Wd. Box.
22	21	573+83	Ext. 6' Rt. & 6' Lt.	$BC6_2$	37	13		11.76	983											6x2 R.C.B. in Place.
23	21	578+46	2x1x20' Timb. S.D. Rt.	TSD-1	32		354													Nothing in Place
24	21	591+01	Ext. 8' Rt. & 5' Lt.	$BC6_2$	37	14		9.40	701											3x3 R.C.B. in Place.
25	21	591+78	3x1x20' Timb. S.D. Lt.	TSD-1	32		441													Nothing in Place
26	21	597+55	2x1x20' " " Rt.	TSD-1	32		354													" " " "
27	22	604+98	24"x38'-4" Rdy. R.C.P. S.D. Rt. 90° W.	CP2	34	7		4.38	52				40							Remove 24" G.I.P.
28	22	616+35	18"x 20' C.M.P. Flume on Lt. 45° W. Upstream	CP2	34	6		.70	14					20						Nothing in Place
29	22	616+72	Ext. 9' Rt. & 19' Lt. with 9' D.I.	$BC6_2$ & CDI	35-41	36		40.18	2959										27	6x6 R.C.B. in Place
30	22	617+25	18"x 20' C.M.P. Flume on Lt. 45° W. Upstream.	CP2	34	6		.70	14					20						Nothing in Place
31	23	630+77	2x1x20' Timb. S.D. Lt.	TSD-1	32		354													" " " "
32	23	632+22	2x1x20' " " " Lt.	TSD-1	32		354													" " " "
33	23	639+71	Ext. 5' Rt. & 6' Lt.	$BC6_2$	37	15		10.49	800											4x3 R.C.B. in Place.
34	23	644+00	Ext. 6' Rt. & 23' Lt.	$BC6_2$	37	24		24.35	1861											5x4 " " "
35	23	647+96	Ext. 20' Rt. & 29' Lt.	$BC6_2$	37	32		18.72	1642											3x3 " " "
36	24	663+60	18"x 30' C.M.P. Flume on Lt. 45° W. Upstream	CP2	34	16		.70	14					30						Nothing in Place
37	24	663+85	18"x 20' " " " " Rt. " " "	CP2	34	6		.70	14					20						" " " "
38	24	664+48	Ext. 11' Lt. with 15' D.I. on Rt.	$BC6_2$ & CDI	39-41	17		25.87	2093										27	6x4 R.C.B. in Place
39	24	672+56	Ext. 16' Rt. & 24' Lt. with Std. D.I. Rt. - 45° W. Lt.	CP2 & CDI	34-41	9		2.88	183				48							30" R.C.P. in Place.
40	24	672+56	30"x 16' C.M.P. Flume on Lt. 45° W. Upstream	CP2	34	10		1.25	31						16					Nothing in Place
41	24	682+74	Ext. 54' Lt. at 45° Sk. with 11' D.I. on Rt.	$BC65_1$ & CDI	40-41	22		22.66	2136										15	3x3 R.C.B. in Place - Bbl. Lgth at 45° Sk.
42	25	698+68.5	Ext. 8' Rt. & 7' Lt.	$BC6_2$	37	20		19.36	1454											6x4 " " "
43	25	708+18	24"x 46'-4" Rdy. R.C.P. 90° W. Lt. ~ 45° W. Rt.	CP2	34	7		3.15	54				48							Remove 24" G.I.P.
44	25	710+45	30"x 94'-4" Rdy. R.C.P. 90° W.	CP2	34	9		6.10	60					96						" " 3x3 R.C.B.
45	25	715+25	Remove & Relay 24"x 28' R.C.P. Ext. 40' - 45° W. Std. D.I.	CP2 & CDI	34-41	34		2.18	149				40				28			
46	26	725+07	Ext. 10' Rt. & 9' Lt. with Std. D.I. ~ Wier 3' Above F.L.	$BC5_2$ & CDI	37-41	24		21.37	1840											6x4 R.C.B. in Place.
47	26	731+52	Ext. 8' Rt. & 4' Lt. 45° W.	CP2	34	7		1.92	56				20							24" R.C.P. in Place.
48	26	738+03	2x1x20' Timb. S.D. Lt.	TSD-1	32		354													Nothing in Place.
49	26	746+66.23	*See Sec. "B" Bridges.*																	
50	27	750+86	Ext. 12' Rt. & 12' Lt.	$BC5A_2$	38	26		38.43	3250											2-6x3 R.C.B. in Place.
51	27	758+00	4x2x20' Rdy. R.C.B. S.D. Lt.	BC5	36	9		9.37	839											Nothing in Place
52	27	763+56	3x2x30' Rdy. R.C.B. S.D. Lt.	BC5	36	17		9.78	874											Remove 24" R.C.P.
53	27	768+15	2x1x20' Timb. S.D. Rt.	TSD-1	32		354													Nothing in Place
54	27	775+62	2x1x20' " " Rt.	TSD-1	32		354													" " " "
55	28	784+12.4	*See Sec. "B" Bridges.*																	
56	28	796+59	15"x20' R.C.P. S.D. Lt. No Hdwls.	CP2	34	2				20										Nothing in Place
57	28	800+50	2x1x20' Timb. S.D. Rt.	TSD-1	32		354													" " " "
58	28	807+85	Remove & Relay 30"x 28' R.C.P. - Ext. 40' 45° W.	CP2	34	46		2.50	62				40				28			
		TOTAL.				666	3981	523.56	37738	60	92	172	236	350	16	20	28	28	69	

CREO. TIMB. DITCH CHECKS.

P.&P. SHEET NO.	LOCATION.	TOTAL NO.	TYPE.	W.	DESIGN	DESIGN SHEET NO.	CREO. COMMON TIMBER F.B.M.	PLAIN RIP-RAP Cu.Yds.
17	467+55 ~ 472+50 on Rt. & Lt.	16	2-A	8	TDC-1	31	2064	8.32
18	488+00 ~ 490+50 on Rt. & Lt.	8	"	5	" "	"	816	3.20
18	499+65 on Lt.	1	2-C	0	" "	"	75	.20
19	511+50 ~ 514+00 on Rt.	11	2-A	12	" "	"	1815	7.48
19	511+50 ~ 516+70 on Lt.	21	"	12	" "	"	3465	14.28
19	517+60 ~ 523+00 on Lt.	15	"	0	" "	"	855	3.00
19	520+50 ~ 523+00 on Rt.	7	"	0	" "	"	399	1.40
20	545+75 ~ 551+00 on Rt. & Lt.	32	"	3	" "	"	2688	10.24
22	617+50 ~ 626+00 on Rt.	22	"	4	" "	"	2046	7.92
23	635+00 ~ 638+50 on Rt. & Lt.	26	"	0	" "	"	1482	5.20
24	658+00 ~ 663+50 on Rt.	19	"	0	" "	"	1083	3.80
27	758+00 ~ 763+00 on Lt.	18	"	6	" "	"	1998	7.92
27	764+00 ~ 768+00 on Rt.	15	"	0	" "	"	855	3.00
27	776+00 ~ 778+00 on Rt. & Lt.	16	"	0	" "	"	912	3.20
28	788+50 ~ 792+00 on Rt. & Lt.	22	"	5	" "	"	2244	8.80
	TOTAL.						22,797	87.96

CREO. TIMB. FIELD CHECKS & FLUMES.

P.&P. SHEET NO.	STATION	DESCRIPTION	DESIGN	DESIGN SHEET NO.	CREO. COMMON TIMBER F.B.M.	PLAIN RIP-RAP Cu.Yds.
18	483+63	3'x6"x20' Creo. Timb. Flume on Lt.	Special	30	268	0.21
20	540+60	3'x6'x20' " " " " Lt.	" "	"	268	0.21
20	540+95	3'x6"x20' " " " " Lt.	" "	"	268	0.21
20	553+00	3'x6"x20' " " " " Rt.	" "	"	268	0.21
21	580+10	10' Creo. Timb. Field Check on Lt.	TDC-1	31	94	0.25
22	611+39	3'x6"x20' Creo. Timb. Flume on Lt.	Special	30	268	0.21
22	611+87	3'x6"x20' " " " " Lt.	" "	"	268	0.21
22	612+60	3'x6"x20' " " " " Lt.	" "	"	268	0.21
22	613+21	3'x6"x20' " " " " Lt.	" "	"	268	0.21
22	614+33	3'x6"x20' " " " " Lt.	" "	"	268	0.21
22	621+20	3'x6"x20' " " " " Rt.	" "	"	268	0.21
22	624+27	4'x6"x20' " " " " Rt.	" "	"	322	0.28
22	625+59	4'x6"x20' " " " " Rt.	" "	"	322	0.28
23	651+75	3'x6"x20' " " " " Rt.	" "	"	268	0.21
26	727+26	10' Creo. Timb. Field Check on Lt	TDC-1	31	94	0.25
26	731+52	20' " " " " " Rt.	" "	"	184	0.65
28	790+20	3'x6"x20' Creo. Timb. Flume on Rt.	Special	30	268	0.21
28	798+20	10' Creo. Timb. Field Check on Rt.	TDC-1	31	94	0.25
28	798+83	10' " " " " " Rt.	" "	"	94	0.25
28	799+43	10' " " " " " Rt.	" "	"	94	0.25
28	800+12	10' " " " " " Rt.	" "	"	94	0.25
	TOTAL.				4608	5.23

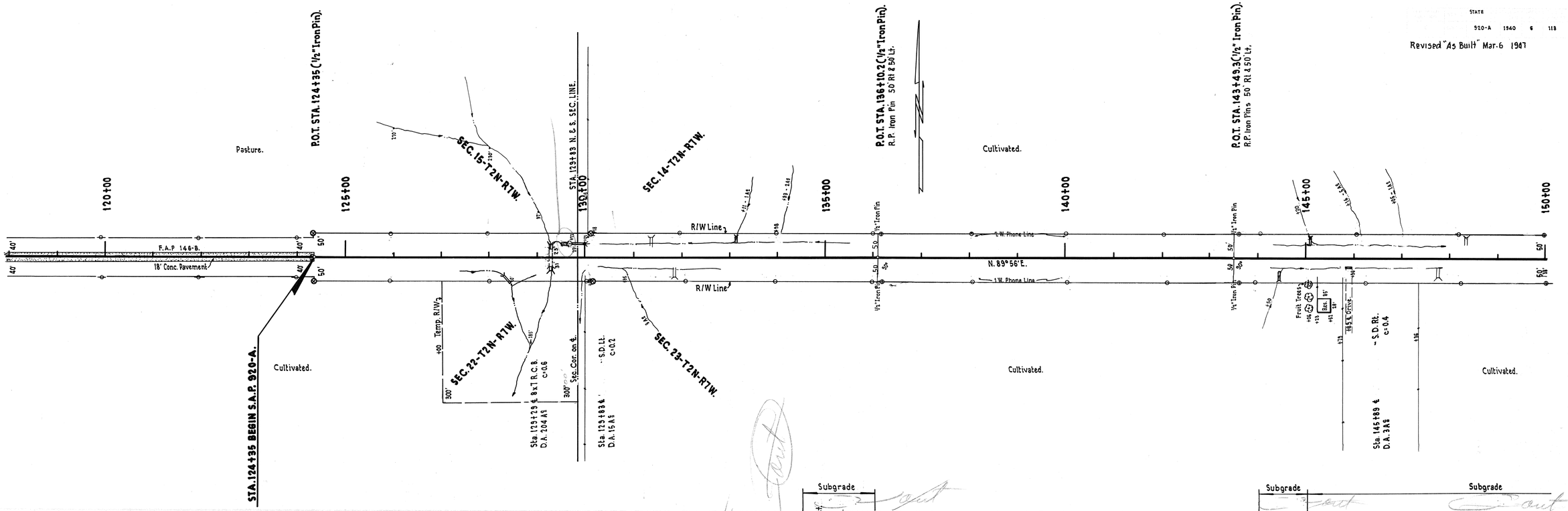
PAY QUANTITIES SEC. B-BRS.

	ITEM NO.	ITEM.	UNIT	QUANTITIES: Str. No. 49 & Sta. 746+66.23 62' T-Bm. Span - 24' Rdy. Des. 18-6 Sht. No. 44, 47	Str. No. 55 & Sta. 784+12.4 3-10x6 R.C.B. in Place Ext. 4.4 Rdy. - 41' Rdy. Des. 809 Bbl. 803' W. Sk. No. 45, 46	TOTAL
	303.06	Gravel Base Course (7").	Sq. Yds.	94	94	
(3)	309.06a.	Rolling (Base Course)	Hour	1	1	
(4)	309.06b.	Sprinkling (Base Course)	M. Gal.	2.8	2.8	
	501.06a.	Struct. Exc. Unclassified.	Cu. Yds.	60	60	
	501.06d.	Removal of Existing Structure:	Each	1	1	
	505.06	Reinf. Conc. Hand Rail	Lin. Ft.	68	136.7	
	506.06a.	Struct. Steel.	Lbs.	61,300	61,300	
	509.06a.	Class "A" Conc.	Cu. Yds.	69.4	69.4	
	509.06b.	Class "AA" Conc.	Cu. Yds.	42.1	42.1	
	511.06	Reinf. Steel	Lbs.	5,790	5,000	10,790
(6)	Special	Cut Back Asphalt Mix No.3	Ton	6	6	
(7)	Special	Cut Back Asphalt for Prime Coat.	Gal.	33	33	
(8)	Special	Cut Back Asphalt For Seal Coat.	Gal.	17	17	
(9)	Special	Aggregate for Seal.	Cu. Yds.	1	1	
	202.06d.	Class "D" Excavation	Cu. Yds.	200		200
	207.06	Shoulders.	Miles	0.006	0.006	

The old culv. bbl. and wings on 3-10x6 R.C.B. shall be removed to 1'-0" inside the curb and the longitudinal reinf. bars in bbl. left in place for bond. All cost of removal of old conc. shall be included in the unit price bid for Class "A" Conc.

STATE
920-A 1940 6 118

Revised "As Built" Mar. 6 1947



SHEET ESTIMATE

STA. 124+35 to STA. 145+00

Emb. + 20%	4,146 C.Y.
(1) Cl. "D" Exc.	3,036 C.Y.
Cl. "D" Borr.	1,400 C.Y.
Overhaul	300 Sec. Y.

(1) Includes 288 C.Y. for Subgrading.

PLATE I-PLAN-PROFILE B.P.R. STANDARD
EUGENE SUTTON CO. ENGINEERING CO.

S.A.P. 920-A. Sh. No. 6

Revised As Built Mar. 6 1947

SEC. 14-T2N-R7W.

Metal Plate Guard Rail on Rt. & Lt.
From Sta. 154+29 to Sta. 154+79 ℄
From Sta. 155+23 to Sta. 155+73
200 Lin. Ft.

Cultivated.

Cultivated.

Sta. 162+42 ℄ S.D. Loc. Lt.
D.A. 1.1A℄
c=0.6

P.O.T. STA. 165+15.1 (C) 1/2" Iron Pin).
R.P. 1/2" Iron Pins 50' Rt. & Lt.

Cultivated.

NOTE: Open Ditch 65' Lt. from
Sta. 168+00 to Sta. 189+20 - 2:1 Slopes.
5' Bottom.

Sta. 177+18 S.D. Lt.
D.A. 40A℄

P.O.T. STA. 177+71 (1/2" Iron Pin).
R.P. Iron Pin 50' Rt. & 75' Lt.

Pasture

150+00 | 155+00 | 160+00 | 165+00 | 170+00 | 175+00 | 180+00

STA. 156+23.N. & S. 1/4 Sec. Line

R/W Line — T.W. Phone Line — N. 89° 56' E. — T.W. Phone Line — R/W Line

Cultivated.

NOTE: Laid Up Rip-Rap on Fill Slopes
From Sta. 153+81 to Sta. 154+81
513.9 Sq. Yds.

Sta. 153+74 ℄ S.D. Loc. Rt.
D.A. 6A℄
c=0.6

Sta. 155+01 ℄ 36' Bm. Span 20' Rdy.
D.A. 56.32A℄
c=0.6

1/4 Sec. Cor. on ℄

NOTE: Laid Up Rip-Rap on Fill Slopes
From Sta. 155+21 to Sta. 156+21
475 Sq. Yds.

Sta. 160+50 ℄ S.D. Loc. Rt.
D.A. 8A℄
c=0.6

Variable Slope 2
Ground Line
6"
2'-6" Approx.
2'-0" Approx.

NOTE: Contractor shall dig trench 2' below ground line ℄ Rip-Rap to Elev. 1210.0. Rip-Rap may be either Laid Up Rip-Rap in accordance with Sect. 602 and 1105 or Broken Concrete. Rip-Rap will be paid for at the unit price bid per Sq. Yd. of surface area regardless of the thickness.

DETAIL OF LAID UP RIP - RAP.

Cultivated.

Sta. 169+34 ℄ 2-5x3 R.C.B.
D.A. 31A℄
c=0.4

Ditch Line

Sta. 167+38

DETAIL OF DRAINS
Sta. 167+00 - Sta. 163+30
4" Tile
French Drains

Ditch Line

SEC. 23-T2N-R7W.

Subgrade — Subgrade — Subgrade — Subgrade

B.M. - "X" on S.W. Wingwall of Br. 13' Rt.
Sta. 154+91.1 El. 1214.58

B.M. - "X" on Center of S. Hdwl. of Culv. Rt.
Sta. 169+34.2 El. 1239.11

Sta. 162+06 — Sta. 163+00

1250 / 1240 / 1230 / 1220 / 1210

Sta. 149+93
In Place 3'x6'x20' Creo. Timb. Flume on Rt.
Des. Sh. No. 30

Sta. 150+70
In Place 3'x6'x24' Creo. Timb. Flume on Lt.
Des. Sh. No. 30

Str. No. 5 — Sta. 153+74
In Place 24"x40' C.M.P. Flume on Rt.
45° W. on Upstream End Only.
Des. CP2
D.A. 6A℄
Sh. No. 34
c=0.6

Str. No. 6 — Sta. 154+50
In Place 30"x30' C.M.P. Flume on Lt.
45° W. on Upstream End Only
Des. CP2
Sh. No. 34

Str. No. 7 — Sta. 155+50
In Place 24"x30' C.M.P. Flume on Rt.
45° W. on Upstream End Only
Des. CP2
Sh. No. 34

From Sta. 159+77 to Sta. 162+80
In Place 6" Creo. Timb. Ditch Chks. on Rt. & Lt.
Des. TDC-1 (2-A, W=0)
Sh. No. 31

Str. No. 8 — Sta. 160+50
In Place 3'x1'x20' Creo. Timb. S.D. Rt.
Des. TSD-1
D.A. 8A℄
Sh. No. 32
c=0.6

Str. No. 9 — Sta. 161+42
In Place 2'x1'x20' Creo. Timb. S.D. Lt.
Des. TSD-1
D.A. 1A℄
Sh. No. 32
c=0.6

Sta. 160+40
In Place 6"x1'x18' Creo. Timb. Flume on Rt.
Des. Sh. No. 30

Sta. 161+50
In Place 3'x6'x22' Creo. Timb. Flume on Rt.
Des. Sh. No. 30

Sta. 162+50
In Place 5'x6'x22' Creo. Timb. Flume on Rt.
Des. Sh. No. 30

P.I. 1238.01

P.I. 1238.97

P.I. 1264.98

+1.18%

+2.91%

+0.16%

-4.53%

300' V.C.

P.I. 1213.31

+81.08 Bag. Br.
Br. in Place - Exc. 39.84'
+20.92' End Br.

300' V.C.

0.0%

Subgrade

350' V.C.

P.I. 1213.31

+4.94%

650' V.C.
700' S.D.

F.L. 1234.07

200' V.C.
1000' S.D.

Str. No. 10
Dbl. - 5x3 R.C.B. in Place, 36' Rdy.
Des. BC5A2
D.A. 31A℄
Sh. No. 38
c=0.4

Sta. 169+34

From Sta. 171+50 to Sta. 175+37
In Place 4" Creo. Timb. Ditch Chks. on Rt. & 7 Lt.
Des. TDC-1 (2-A, W=0 on Rt.)
Sh. No. 31

Str. No. 11 — Sta. 176+20
In Place 4'x1'x20' Rdy. R.C.B.-S.D. Lt.
Des. BC5
D.A. 40A℄
Sh. No. 36
c=0.4

Str. No. 11 A — Sta. 176+20
In Place 3'x1'x20' Rdy. Timber S.D. Lt.
Des. TSD-1
Sh. No. 32.

SHEET ESTIMATE

STA. 145+00 to STA. 179+00

Emb. +20%	5,363 C.Y.
(1) Cl. "D" Exc.	6,354 C.Y.
Cl. "D" Borr.	344 C.Y.
Overhaul	2,150 Sec.Y.

(1) Includes 1335 C.Y. for Subgrading.

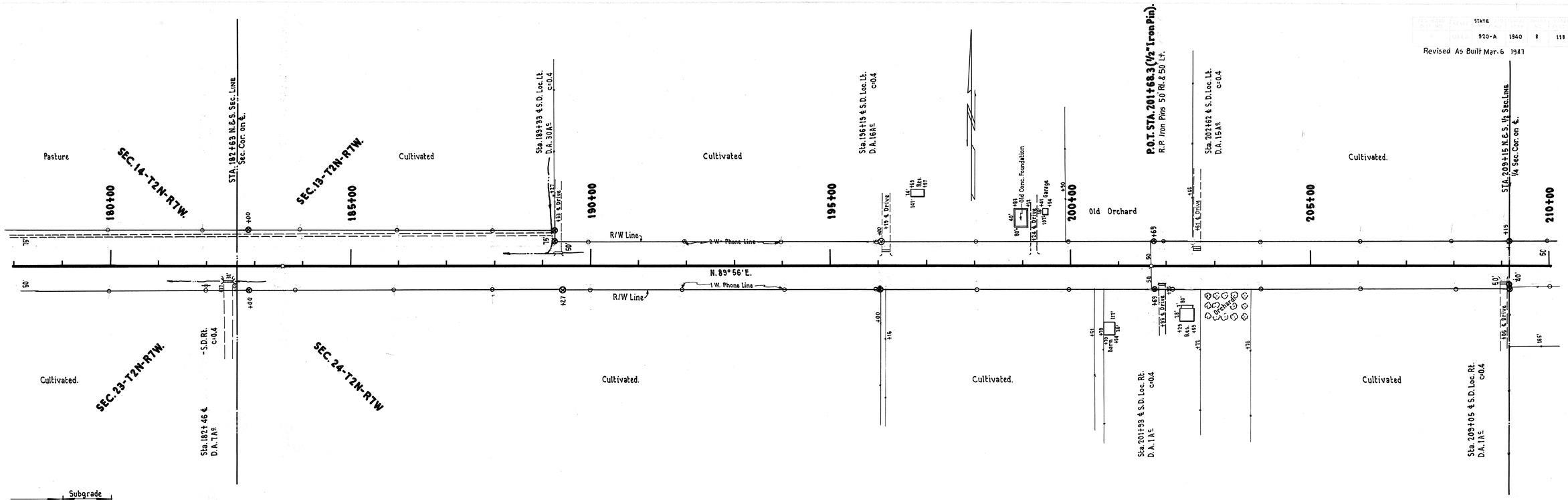
Station	Elevation
148	1243.15
9	37.63
150	32.03
1	26.59
2	21.32
3	17.19
+25 P.I.	15.10
4	14.70
+01.08	14.00
5	14.00
+20.92	14.00
6	14.00
7	13.94
8	14.25
9	15.52
+50 P.I.	15.27
160	17.56
1	21.32
2	25.82
3	30.13
4	33.53
+50 P.I.	34.11
5	36.06
6	37.88
7	38.97
8	39.36
9	39.64
+34	39.83
170	40.39
+50 P.I.	40.00
1	41.91
2	44.08
3	46.92
4	49.98
5	52.71
6	55.12
7	56.75
8	57.95
9	59.19
180	1260.42

For Gr. As Built

PLATE I-PLAN-PROFILE

STATE			
920-A	1940	8	118

Revised As Built Mar. 6 1947



SHEET ESTIMATE

STA. 179+00 to STA. 208+00

Emb. +20%	3,414 C.Y.
(1) Cl. "D" Exc.	1,198 C.Y.
Cl. "D" Borr.	2,946 C.Y.

(1) Includes 130 C.Y. For Subgrading.

PLATE I-PLAN-PROFILE

S.A.P. 920-A. Sh. No. 8

SHEET ESTIMATE

STA. 208+00 to STA. 239+00

(1) Emb. +20% ____ 2,739 C.Y.
Cl. "D" Exc. ____ 1,004 C.Y.
Cl. "D" Borr. ____ 1,735 C.Y.

(1) Includes 75 C.Y. For Ramps.

SEC. 19-T2N-R6W.
B.M.- N.W. Corner. of N. Hdwl. of Culv.
Sta. 241+14 El. 1278.76
B.M.- S.W. Corner. of S. Hdwl. of Culv.
Sta. 248+56 El. 1272.53
B.M.- 60d. Spk. in 24" Elm 38' Lt.
Sta. 266+65 El. 1249.90
P.I. 1280.99
200' V.C.
-0.80%
F.I. 1273.1
P.I. 1272.53
200' V.C.
+0.88%
F.I. 1268.0
250' V.C.
200' V.C.
-0.893%
P.I. 1275.01
+25 P.I. 1275.01
P.I. 1272.99
Subgrade
-1.43%
P.I. 1251.98
200' V.C.
1000' S.D.
-3.10%
P.I. 1245.58
300' V.C.
-0.48%
F.I. 1236.4
Sta. 241+14
Str. No. 25
In Place 5x4x36' Rdy. R.C.B.
with Std. Drop Inlet
Wier in D.I. 2' Above F.I. of Box.
Des. BC5₂ & CDI
Shs. No. 37, 41
Sta. 241+14
Str. No. 26
In Place 2'-6"x10' Conc. Chk. 45° Lt.
Des. No. 2
Sta. 246+39
In Place 10' Creo. Timb. Field Chk. on Rt.
Des. TDC-1
Sh. No. 31
Sta. 248+56
Str. No. 27
In Place 3x3x42.5 Rdy. R.C.B.
with Std. Drop Inlet
Wier in D.I. 2' Above F.I. of Box.
Des. BC5₂ & CDI
Shs. No. 37, 41
Sta. 248+56
Str. No. 28
In Place 30"x20' C.M.P. Flume on Lt.
45° W. on Upstream End Only
Des. CP2
Sh. No. 34
Sta. 252+40
In Place 10' Creo. Timb. Field Chk. on Rt.
Des. TDC-1
Sh. No. 31
Sta. 254+88
In Place 10' Creo. Timb. Field Chk. on Rt.
Des. TDC-1
Sh. No. 31
Sta. 261+56
In Place 10' Creo. Timb. Field Check Rt.
Des. Sh. No. 30
Str. No. 30 Sta. 263+43
In Place 2-3x1x20' Timb. S.D. Rt.
Des. TSP-1 Sh. No. 32
D.A. 31A ± c=0.5
From Sta. 264+36 to Sta. 268+53
In Place 6 Creo. Timb. Ditch Chks on Rt.
Des. TDC-1 (2'-4, W. Var. 10' Av.) Sh. No. 31
From Sta. 266+31 & Sta. 267+83
In Place 2 Creo. Timb. Ditch Chks. on Lt.
Des. TDC-1 (2'-4, W. Var. 10' Av.) Sh. No. 31
Str. No. 31 A Sta. 269+05
In Place 30"x20' C.M.P. Flume Rt.
45° W. up-stream end only
Des. CP-2 Sh. No. 34
Str. No. 31 Sta. 268+55
In Place 24"x40' C.M.P. Flume on Lt.
45° W. Upstream End Only
Des. CP2 Sh. No. 34
Str. No. 32 Sta. 269+25
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sta. 269+25 & 3x3 R.C.B.
D.A. 56A ±
Sta. 266+65
Str. No. 33
In Place 2'-6"x10' Conc. Chk. 45° Lt.
Des. No. 2
Sh. No. 33
Sta. 269+25
Str. No. 34
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 34
Sta. 269+25
Str. No. 35
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 35
Sta. 269+25
Str. No. 36
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 36
Sta. 269+25
Str. No. 37
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 37
Sta. 269+25
Str. No. 38
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 38
Sta. 269+25
Str. No. 39
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 39, 41
Sta. 269+25
Str. No. 40
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 40
Sta. 269+25
Str. No. 41
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 41
Sta. 269+25
Str. No. 42
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 42
Sta. 269+25
Str. No. 43
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 43
Sta. 269+25
Str. No. 44
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 44
Sta. 269+25
Str. No. 45
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 45
Sta. 269+25
Str. No. 46
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 46
Sta. 269+25
Str. No. 47
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 47
Sta. 269+25
Str. No. 48
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 48
Sta. 269+25
Str. No. 49
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 49
Sta. 269+25
Str. No. 50
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 50
Sta. 269+25
Str. No. 51
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 51
Sta. 269+25
Str. No. 52
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 52
Sta. 269+25
Str. No. 53
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 53
Sta. 269+25
Str. No. 54
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 54
Sta. 269+25
Str. No. 55
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 55
Sta. 269+25
Str. No. 56
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 56
Sta. 269+25
Str. No. 57
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 57
Sta. 269+25
Str. No. 58
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 58
Sta. 269+25
Str. No. 59
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 59
Sta. 269+25
Str. No. 60
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 60
Sta. 269+25
Str. No. 61
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 61
Sta. 269+25
Str. No. 62
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 62
Sta. 269+25
Str. No. 63
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 63
Sta. 269+25
Str. No. 64
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 64
Sta. 269+25
Str. No. 65
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 65
Sta. 269+25
Str. No. 66
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 66
Sta. 269+25
Str. No. 67
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 67
Sta. 269+25
Str. No. 68
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 68
Sta. 269+25
Str. No. 69
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 69
Sta. 269+25
Str. No. 70
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 70
Sta. 269+25
Str. No. 71
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 71
Sta. 269+25
Str. No. 72
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 72
Sta. 269+25
Str. No. 73
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 73
Sta. 269+25
Str. No. 74
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 74
Sta. 269+25
Str. No. 75
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 75
Sta. 269+25
Str. No. 76
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 76
Sta. 269+25
Str. No. 77
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 77
Sta. 269+25
Str. No. 78
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 78
Sta. 269+25
Str. No. 79
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 79
Sta. 269+25
Str. No. 80
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 80
Sta. 269+25
Str. No. 81
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 81
Sta. 269+25
Str. No. 82
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 82
Sta. 269+25
Str. No. 83
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 83
Sta. 269+25
Str. No. 84
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 84
Sta. 269+25
Str. No. 85
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 85
Sta. 269+25
Str. No. 86
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 86
Sta. 269+25
Str. No. 87
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 87
Sta. 269+25
Str. No. 88
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 88
Sta. 269+25
Str. No. 89
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 89
Sta. 269+25
Str. No. 90
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 90
Sta. 269+25
Str. No. 91
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 91
Sta. 269+25
Str. No. 92
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 92
Sta. 269+25
Str. No. 93
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 93
Sta. 269+25
Str. No. 94
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 94
Sta. 269+25
Str. No. 95
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 95
Sta. 269+25
Str. No. 96
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 96
Sta. 269+25
Str. No. 97
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 97
Sta. 269+25
Str. No. 98
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 98
Sta. 269+25
Str. No. 99
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 99
Sta. 269+25
Str. No. 100
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 100
Sta. 269+25
Str. No. 101
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 101
Sta. 269+25
Str. No. 102
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 102
Sta. 269+25
Str. No. 103
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 103
Sta. 269+25
Str. No. 104
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 104
Sta. 269+25
Str. No. 105
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 105
Sta. 269+25
Str. No. 106
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 106
Sta. 269+25
Str. No. 107
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 107
Sta. 269+25
Str. No. 108
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 108
Sta. 269+25
Str. No. 109
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 109
Sta. 269+25
Str. No. 110
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 110
Sta. 269+25
Str. No. 111
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 111
Sta. 269+25
Str. No. 112
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 112
Sta. 269+25
Str. No. 113
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 113
Sta. 269+25
Str. No. 114
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 114
Sta. 269+25
Str. No. 115
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 115
Sta. 269+25
Str. No. 116
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 116
Sta. 269+25
Str. No. 117
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 117
Sta. 269+25
Str. No. 118
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 118
Sta. 269+25
Str. No. 119
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 119
Sta. 269+25
Str. No. 120
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 120
Sta. 269+25
Str. No. 121
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 121
Sta. 269+25
Str. No. 122
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 122
Sta. 269+25
Str. No. 123
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 123
Sta. 269+25
Str. No. 124
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 124
Sta. 269+25
Str. No. 125
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 125
Sta. 269+25
Str. No. 126
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 126
Sta. 269+25
Str. No. 127
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 127
Sta. 269+25
Str. No. 128
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 128
Sta. 269+25
Str. No. 129
In Place 3x3x98' Rdy. R.C.B.
Drop Inlet 5.3' High
Slope Outlet Ext. to F.I. of Stream
Des. BC5₂, CDI
D.A. 56 A ± c=0.5
Note: 2-2" Weep Holes in Each
3' Height on Drop Inlet.
Sh. No. 129
Sta. 269+25
Str. No. 130
In Place 3x3x98' Rdy. R.C

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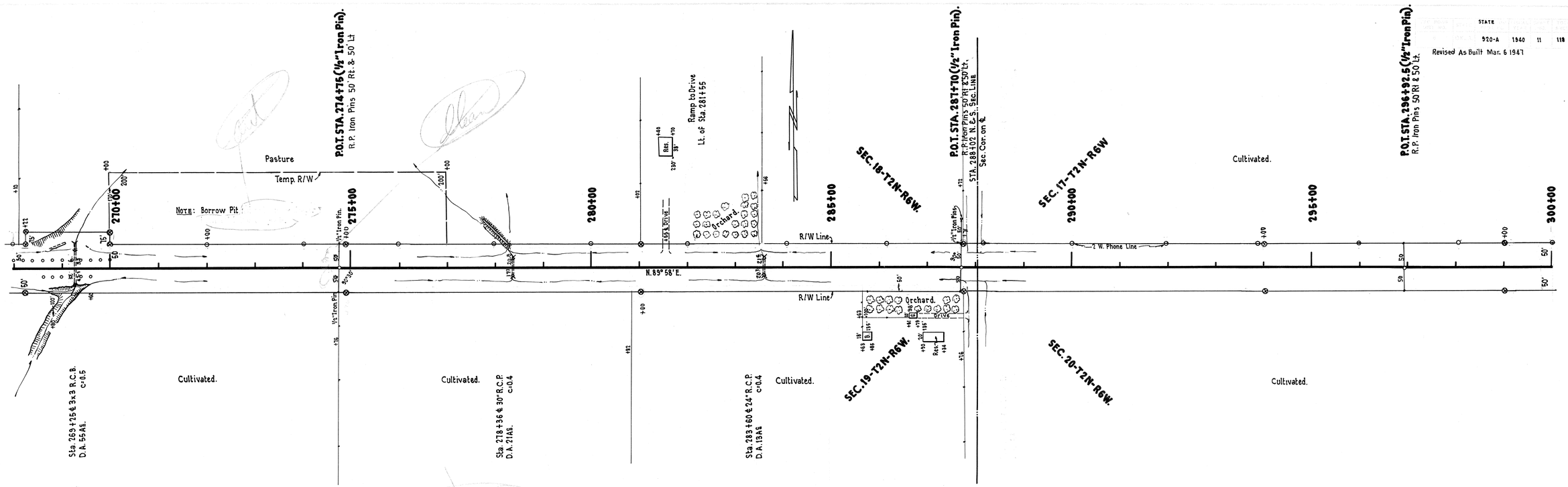
Revised As Built Mar. 6 1947



SHEET ESTIMATE

STA. 267+00 to STA. 300+00

(1) Emb. +20% ____ 6,033 C.Y.
Cl. "D" Exc. ____ 305 C.Y.
Cl. "D" Borr. ____ 5,328 C.Y.

(1) Includes 25 C.Y. for Ramp.

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Revised As Built Mar. 6 1947

SEC. 17-T2N-R6W.

Guide Posts on Lt. from Sta. 304+20 to Sta. 305+60 8 Posts.

Sta. 304+91 3x2 R.C.B. D.A. 18.A.C. C-0.4

Cultivated.

P.I. STA. 310+00
Δ = 0° 52' Lt.
R.P. Iron Pins 75' RW & 75' Lt.

STA. 314+96 N.S. ¼ Sec. Line
7.5' Rt. to ¼ Sec. Cor.

Cult.

Guide Posts Lt. from Sta. 319+00 to Sta. 320+00 6 Posts.

0+00 BEG. CH. CHG.
P.O.T. STA. 0+20

Temp. R/W for Channel

STA. 323+35 on Proj.
STA. 5+00 on Ch. Chg.

Cultivated.

Metal Plate Guard Rail on Lt. from Sta. 322+19 to Sta. 322+69 & from Sta. 323+85 to Sta. 324+35 100 Lin. Ft.

Ramp to Drive Lt. of Sta. 326+55

300+00 305+00 310+00 315+00 320+00 325+00 330+00

R/W Line

N. 89° 58' E. N. 89° 06' E. S. 89° 03' E.

Iron Pin R.P.

Pres. R/W

CLEAR CREEK

6+46 END CH. CHG.

R/W Angle Point

Sta. 316+

Guide Posts on Rt. from Sta. 318+95 to Sta. 322+15 17 Posts.

Cultivated.

Metal Plate Guard Rail on Rt. from Sta. 322+35 to Sta. 322+86 & from Sta. 324+01 to Sta. 324+51 100 Lin. Ft.

P.C. STA. 324+07.5

P.I. Sta. 325+00
Δ = 1° 51' Rt.
D = 1° 00'
T = 92.5'
L = 185.0'
R = 5729.65'
S = 0.37'

P.T. STA. 325+92.5

Cultivated.

DETAIL OF DRAINS
French Drains
4" Tile Drains

312+00 312+35 315+35

Pasture

Subgrade

SEC. 20-T2N-R6W.

TYPICAL SECTION OF CH. CHG.

B.M. N.E. Cor. of S. Hdwl. Culv. Sta. 304+91 Elev. 1229.26

B.M. S.E. Cor. of S.E. Wing of Br. Sta. 323+96 Elev. 1182.58

STA. 0+00 BEGIN CH. CHANGE — STA. 6+46 END CH. CHANGE

-0.264%

1165.10 64.84 64.57 64.31 64.04 63.78 63.52 1163.40

1240 1230 1220 1210 1200 1190 1180 1170

-0.93%

P.I. 1228.57

F.L. 1219.6

700' V.C.
700' S.D.

Subgrade

-6.0%

From Sta. 312+17 to Sta. 317+50 In Place 24 Cres. Timb. Ditch Chks on Rt. & Lt. Des. TDC-1 (24, W-0) Sh. No. 31

Str. No. 35 In Place 3x2 + 1/4 Rdg. R.C.B. ~~Ext. 09 Rt. & 5' Lt.~~ with 8" 4° Drop Inlet Des. BCS & CD) D.A. 18.A.S. Sta. 304+91 Sh. No. 39, 41 c-0.4

Str. No. 36 In Place 30'-50'-30' T-Bm. Spans, 28' Rdg. 60° Skew. Rt. Fwd. Des. TB-6 & CT-6 D.A. 5440.1 ¢ Sta. 323+35 Sh. No. 42, 43, 47, 48 c-0.8

+34.5 P.I. 1181.50

300' V.C.

0.0%

H.W. 1176.0

End of Slab Sta. 322+79.04

End of Slab Sta. 323+90.96

Sec. "A" Br. 111.92'

P.I. 1181.50

200' V.C.

-0.371%

200' V.C.

P.I. 1179.83

F.L. 1165.9

Fin. Gr. "As Built" 1240.19 1241.18

298 9 300 1 2 3 4 5 6 7 8 9 310 1 2 3 4 5 6 7 8 9 320 1 2 3 4 5 6 7 8 9 330

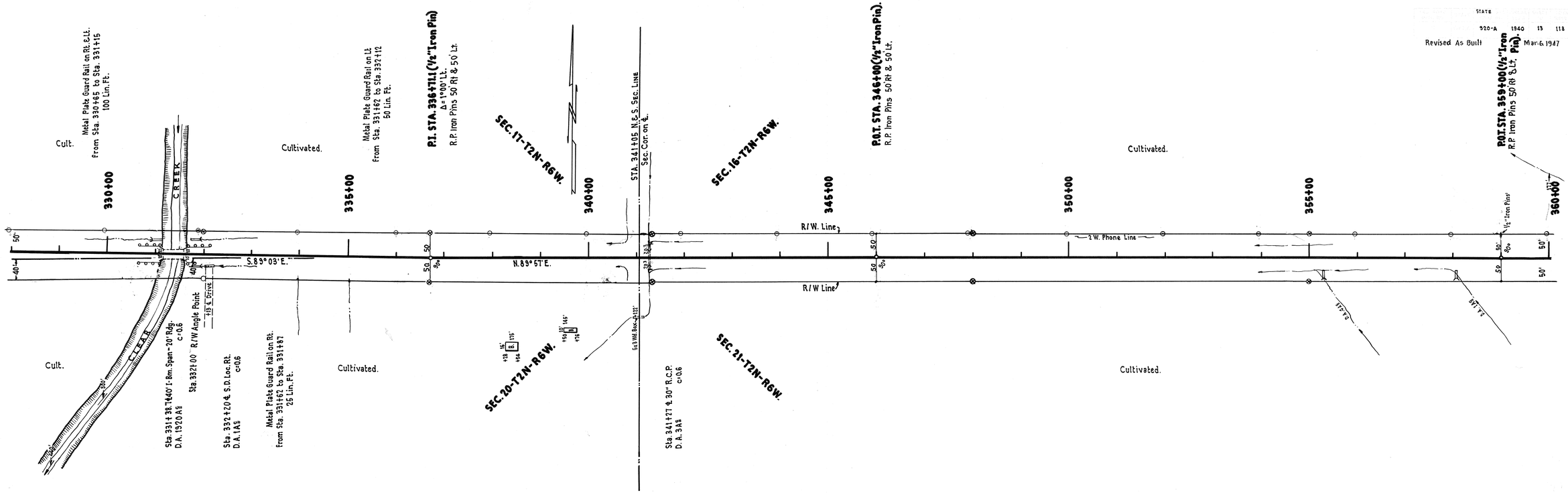
SHEET ESTIMATE

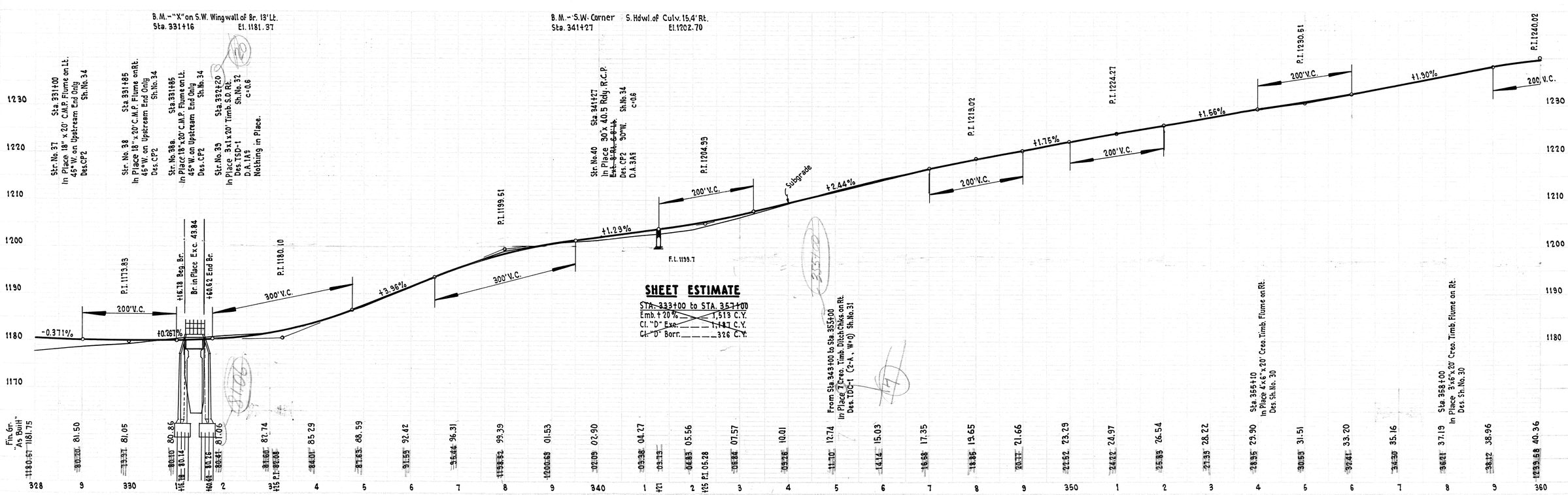
STA. 300+00 to STA. 333+00

(1) Emb. +20% ____ 30,051 C.Y.
(2) Cl. "D" Exc. ____ 37,010 C.Y.
(3) Waste ____ 5,838 C.Y.
Overhaul ____ 18,600 Sec. Yds.

(1) Includes 50 C.Y. For Ramps.
(2) Includes 1181 C.Y. For Subgrading & 17,356 C.Y. of Ch. Chg.
(3) To be used to Fill Old Channel on Lt. & to natural field level.

Revised As Built Mar. 6, 1947





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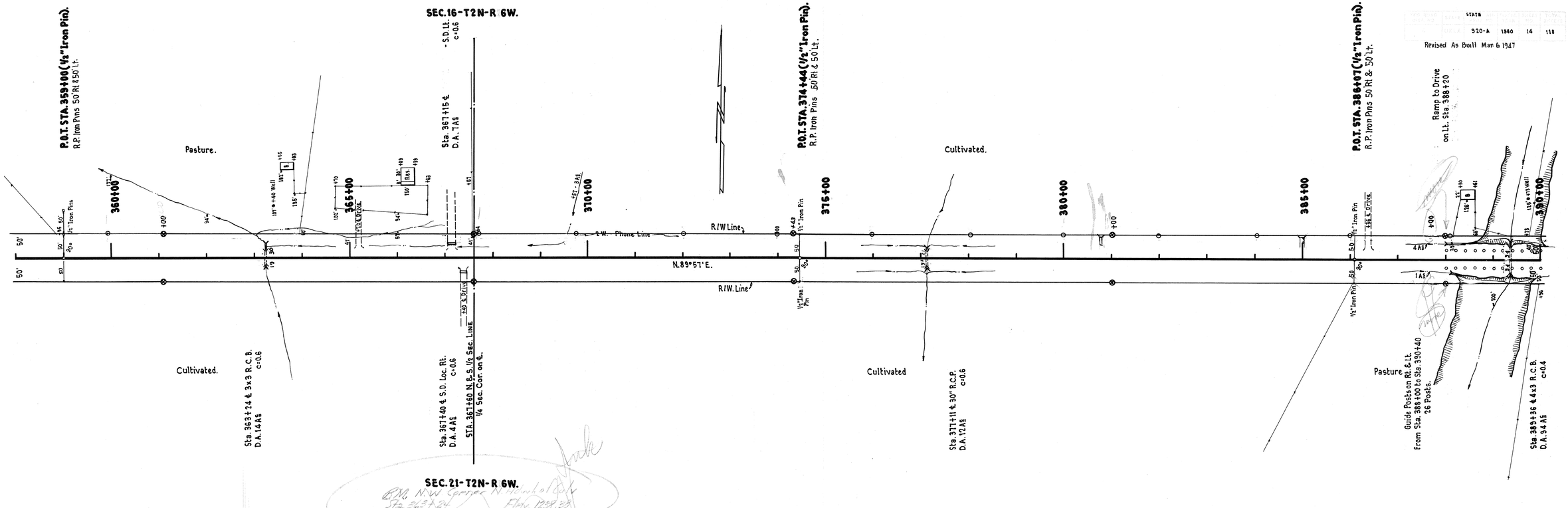
920-A	1940	14	118

Revised As Built Mar 6 1947



SHEET ESTIMATE

STA. 367+00 to STA. 389+00

(1) Emb. +20% ——— 3,075 C.Y.
Cl. "D" Exc. ——— 1,204 C.Y.
Cl. "D" Borr. ——— 1,871 C.Y.
Overhaul ——— 200 Sec.Y.

(1) Includes 100 C.Y. for Ramp.

PLATE 1-PLAN-PROFILE U. P. R. STANDARD
EUGENE DIETZGEN CO., Chicago-New York

S.A.P. 920-A Sh. No. 14

SHEET ESTIMATE

STA. 389+00 to STA. 421+00

(1) Emb. +20% ____ 4,576 C.Y.
Cl. "D" Exc. ____ 2,612 C.Y.
Cl. "D" Borr. ____ 1,964 C.Y.
Overhaul ____ 710 Sta.-Y.

(1) Includes 25 C.Y. For Dyke.

PLATE 1-PLAN-PROFILE

S.A.P. 920-A Sh. No. 15

STATE
920-A 1940 16 118
Revised As Built Mar 6 1947

SHEET ESTIMATE

STA. 421+00 to STA. 447+00

(1)	Emb. +20%	6,658 C.Y.
(2)	Cl. "D" Exc.	3,334 C.Y.
	Cl. "D" Borr.	3,324 C.Y.
	Overhaul	1,690 Sec. Y.

(1) Includes 125 C.Y. For Ramps
(2) Includes 50 C.Y. From Ramp.

PLATE I PLAN-PROFILE & E.P.R. STANDARD
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S. A. P. 920-A. Sh. No. 16

SHEET ESTIMATE.

STA. 447+00 to STA. 467+55

(1) Emb. +20% ____ 2,346 C.Y.
Cl. "D" Exc. ____ 1,193 C.Y.
(2) Cl. "D" Borr. ____ 18 C.Y.
Overhaul ____ 460 Sec. Y.

(1) Includes 100 C.Y. For Dykes.
(2) Has been Reduced 535 C.Y. by Wasts. on Sec. "B."

B.M. N.W. Cor. N. Hdwl. Culv. Sta. 461+38 Elev. 1249.33

B.M. - 60d Spk. in 6" Elm 62' Rt. Sta. 467+45 El. 1247.16

Sta. 451+85 3'x6'x14' Creo. Timb. Flume Lt.

Sta. 453+85 In Place 10' Creo. Timb. Field Chk. on Lt. Des. TDC-1 Sh. No. 31

Sta. 460+50 Creo. Timb. Ditch Check on Lt.

Str. No. 64 Sta. 461+00 In Place 18"x30' C.M.P. Flume on Rt. 45° W. on Upstream End Only. Des. CP2 Sh. No. 34

Str. No. 65 Sta. 461+38 In Place 5x5x7.6' Rdg. R.C.B. ~~Ext. 11 Ft. with 12 Drop Inlet on Lt.~~ Slope Outlet to F.L. of Stream Des. BC6 & CD1 Shs. No. 39, 41 D.A. 7.6 A's c=0.6

Str. No. 66 Sta. 466+62 In Place 5x4x6.3 Rdg. R.C.B. ~~Ext. 9 Ft. & 9 Lt.~~ Des. BC6₂ Sh. No. 33 D.A. 13.6 A's c=0.5

Str. No. 67 Sta. 467+00 In Place 18"x30' C.M.P. Flume on Rt. 45° W. on Upstream End Only. Des. CP2 Sh. No. 34

From Sta. 467+55 to Sta. 469+59 In Place 6' Creo. Timb. Ditch Chks. on Rt. & Lt. Des. TDC-1 (2-4, W'ks.; W'ks.8') Sh. No. 31

Str. No. 1 Sta. 473+03 In Place 2x1x20' Timb. S.D. Rt. Des. TSD-1 Sh. No. 32 D.A. 1.4 A's c=0.6

Sta. 473+63 In Place Creo. Timb. Ditch Check Lk. 10' Long

STA. 467+55 END S.A.P. 920-A.
BEGIN S.A.P. 920-B.

P.I. 1251.03
P.I. 1262.98
P.I. 1248.00
P.I. 1280.51
250' V.C.
+2.39%
400' V.C.
700' S.D.
-1.11%
Subgrade
300' V.C.
+2.89%
-2.266%
700' V.C.
700' S.D.
F.L. 1236.6
F.L. 1232.4

1270
1260
1250
1240

1251.31 448 | 450 P.I. 51.77 | 52.51 9 | 54.62 450 | 57.01 1 | 59.23 2 | 60.82 3 | 450 P.I. 61.23 | 61.46 4 | 61.21 5 | 60.21 6 | 59.10 7 | 57.95 8 | 56.88 9 | 55.77 460 | 54.66 1 | 54.23 +38 | 53.55 2 | 52.44 3 | 51.33 4 | 50.22 5 | 49.28 6 | 49.26 +62 | 49.50 7 | 51.06 8 | 53.78 9 | 56.67 470 | 59.56 1 | 62.45 2 | 65.34 3 | 68.23 4 | 71.10 5 | 73.43 6 | 75.04 7 | 75.31 8 | 475 P.I. 76.01 | 76.03 9 | 1215.43 480

SHEET ESTIMATE

STA. 467+55 to STA. 507+00

(1)	Emb. ±20%	4,422 C.Y.
	Cl. "D" Exc.	4,592 C.Y.
	Cl. "D" Borr.	365 C.Y.
(2)	Waste	595 C.Y.
	Overhaul	2,480 Sec.Y.

(1) Includes 50 C.Y. for Dykes.
(2) Used to Reduce Borr. on Sec. "A".

PLATE I-PLAN-PROFILE B.P.R. STANDARD
EUGENE DIETZGEN CO., Chicago-New York

S.A.P. 920-B. Sh. No. 18

STATE
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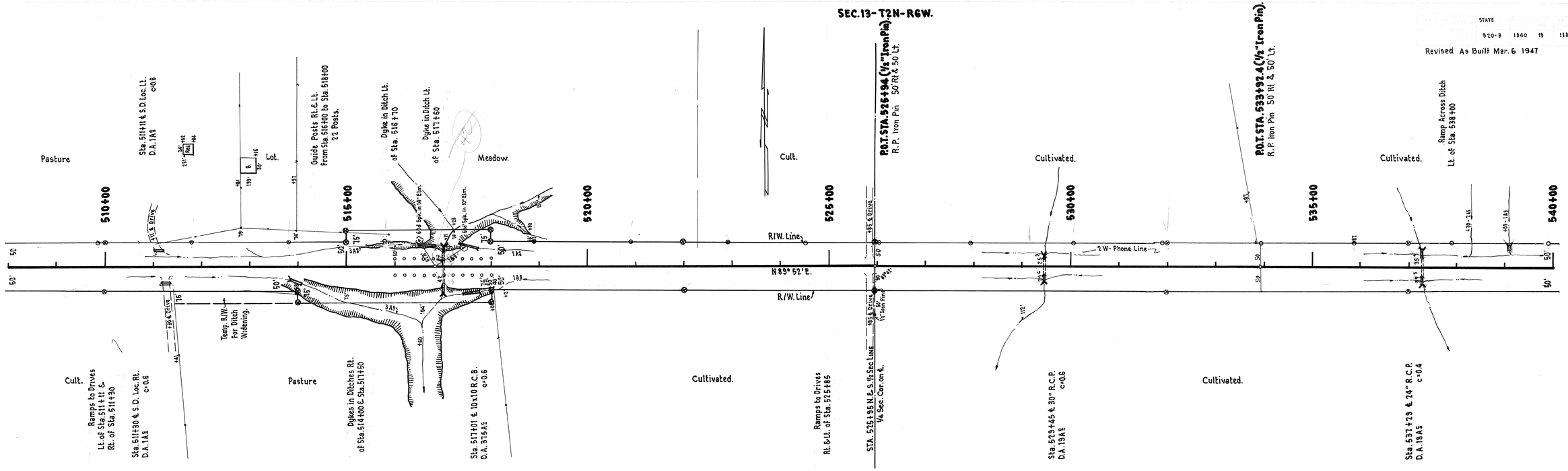


SHEET ESTIMATE

STA. 507+00 to STA. 536+35

(1)	Emb. +20%	4,509 C.Y.
	Cl. "D" Exc.	3,365 C.Y.
	Cl. "D" Borr.	1,144 C.Y.
	Overhaul	1,490 Sta.C.Y.

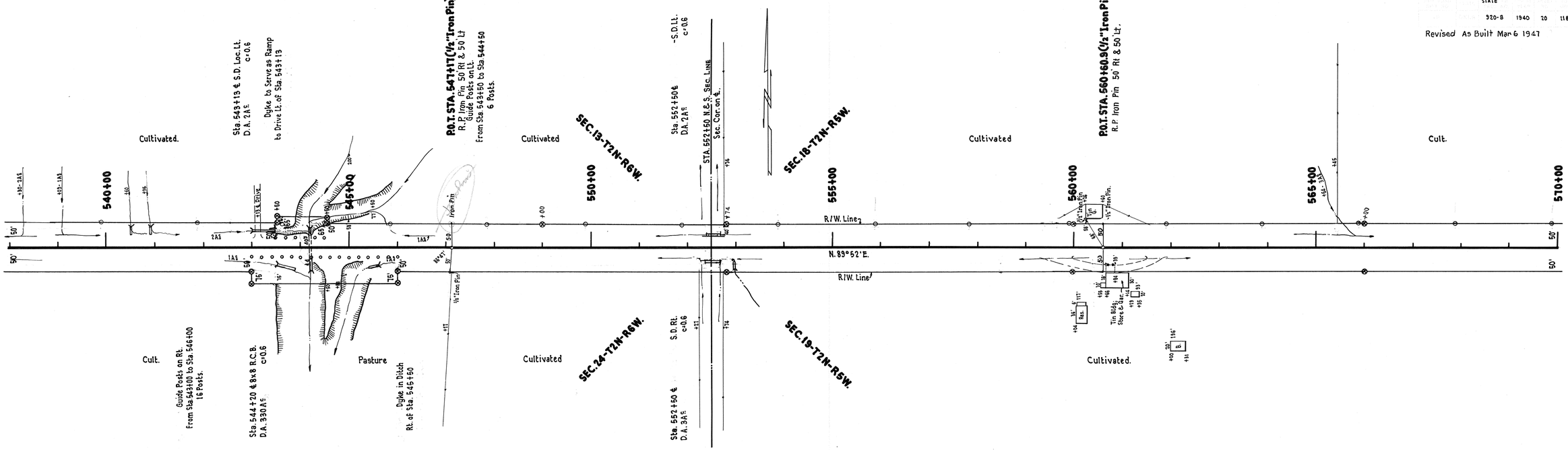
(1) Includes 300 C.Y. For Ramps & Dykes.

PLATE I-PLAN-PROFILE A.A.S.H.O. STANDARDS

S.A.P. 920-B Sh. No. 19

STATE
920-B 1940 20 118

Revised As Built Mar 6 1947



SHEET ESTIMATE

STA. 536+35 to STA. 569+00

(1)	Emb. 120%	4,007 C.Y.
(2)	Cl. "D" Exc.	3,815 C.Y.
	Cl. "D" Borr.	1,317 C.Y.
	Overhaul	1,370 Sec.Y.

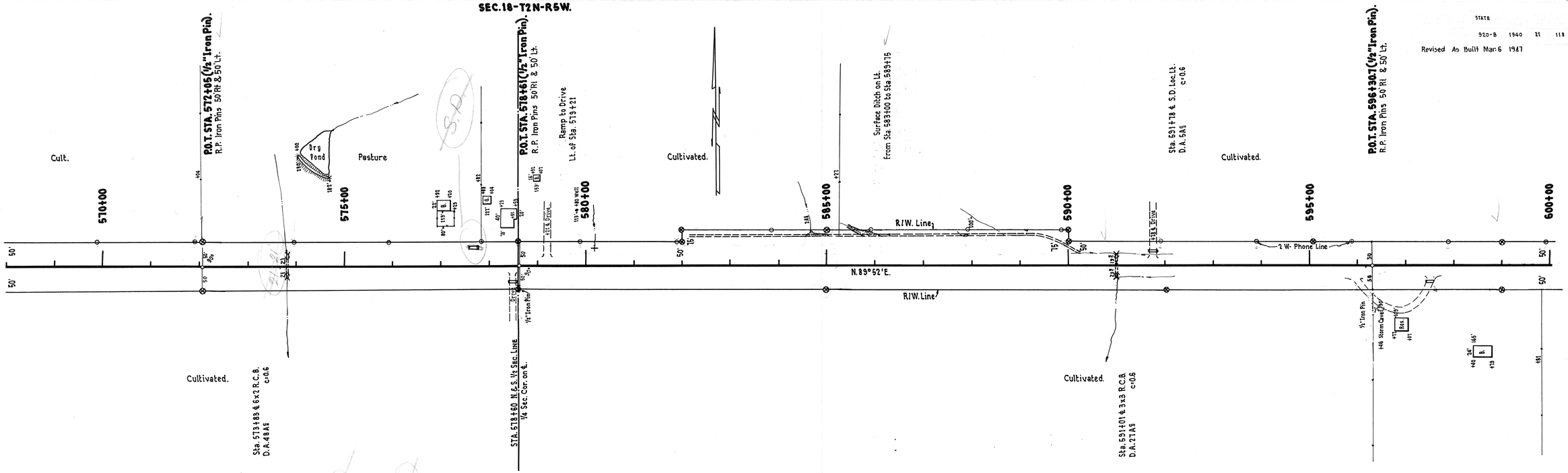
(1) Includes 100 C.Y. For Ramps & Dykes
(2) Includes 1125 C.Y. For Subgrading.

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

S.A.P. 920-B Sh. No. 20

STATE
920-B 1940 21 118

Revised As Built Mar. 6 1947



SHEET ESTIMATE

STA. 569+00 to STA. 601+80

(1)	Emb. 120%	3,246 C.Y.
(2)	Cl. "D" Exc.	2,996 C.Y.
	Cl. "D" Borr.	230 C.Y.
	Overhaul	1,010 Sec.Y.

(1) Includes 400 C.Y. for Ramps & Dykes
(2) Includes 450 C.Y. for Surface Ditch.

STATE

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Revised As Built Mar 6 1947

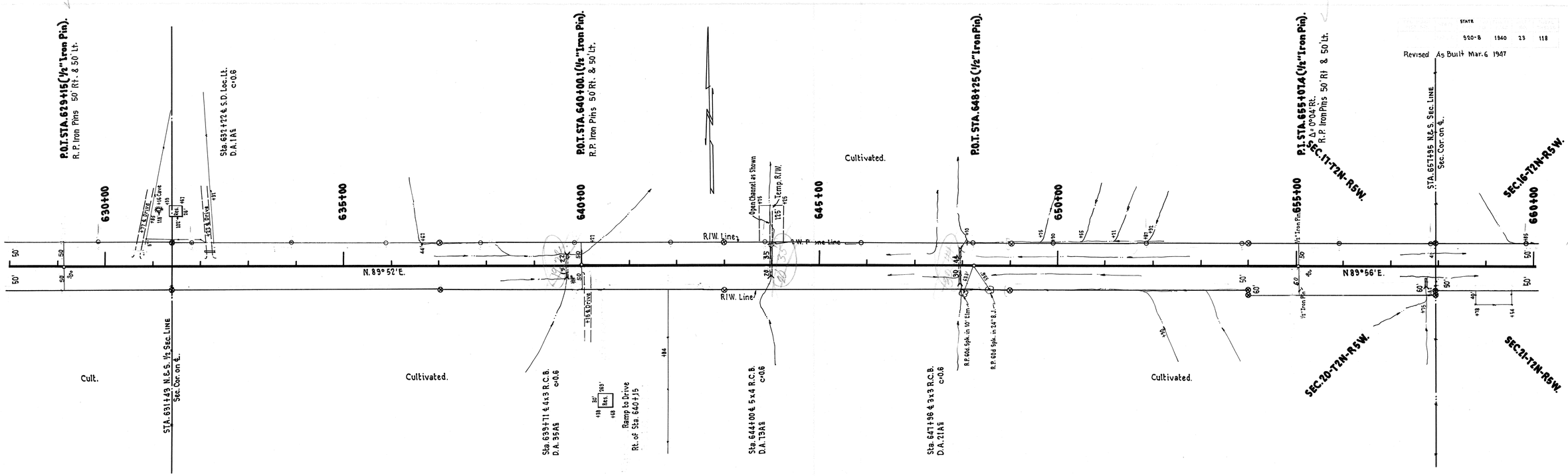
SHEET ESTIMATE

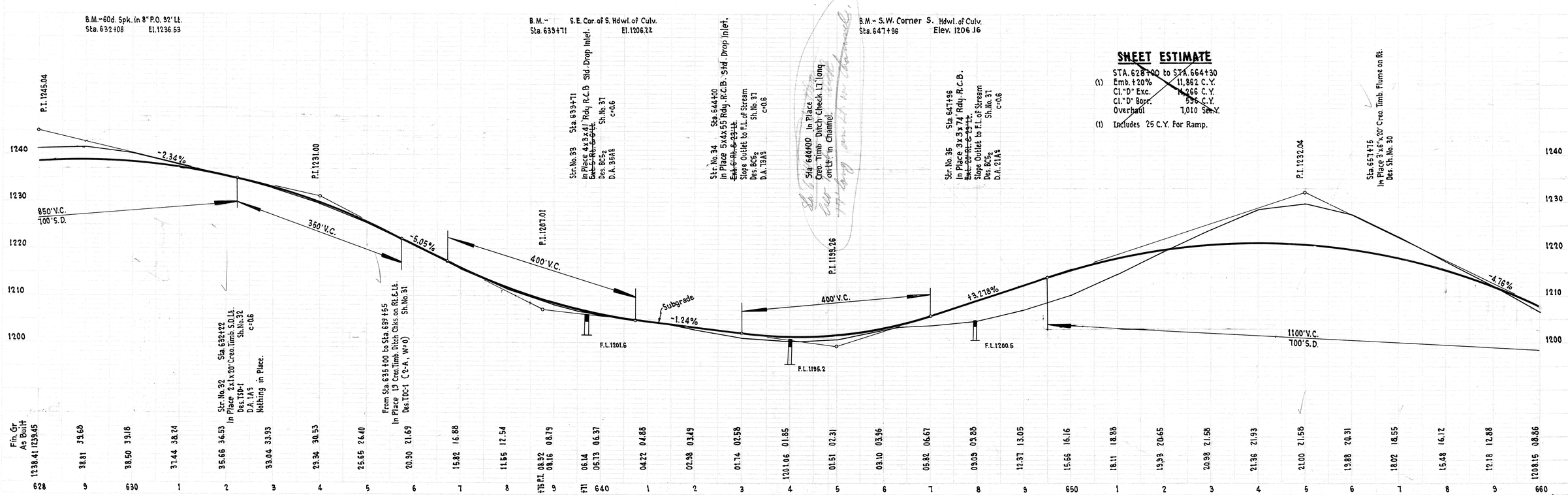
STA. 601+00 to STA. 628+00

Emb. +20%	2366 C.Y.
Cl. "D" Exc.	1733 C.Y.
Cl. "D" Borr.	633 C.Y.
Overhaul	880 Sec.Y.

Sta.	Fin. Gr. "As Built"	Cut	Fill
598	1249.82 1250.34		
9		47.76	48.43
600		45.68	46.33
1		43.60	44.13
2		41.52	42.10
3		39.49	40.22
+50 Rt.		38.58	
4		37.76	38.47
5		36.32	37.00
6		34.94	35.60
7		33.56	34.31
8		31.89	32.37
+50 Rt.		30.68	
9		29.23	29.65
610		25.57	26.22
1		21.63	22.38
2		17.63	18.39
3		13.75	14.64
4		09.81	10.46
5		06.12	07.05
6		04.15	04.80
+50 Rt.		03.83	
+72		03.34	
7		04.14	04.69
8		06.03	07.16
9		09.76	10.63
620		13.68	14.70
1		17.60	18.67
2		21.52	22.40
3		25.44	26.44
4		29.34	30.36
5		32.70	33.73
6		35.34	36.39
7		37.23	38.36
8		38.41	39.45
9		38.81	39.68
630	1238.50	38.18	

PLATE I-PLAN-PROFILE S.A.P. STANDARD
DIGEST SCHEDEN CO. Chicago-New York





SHEET ESTIMATE

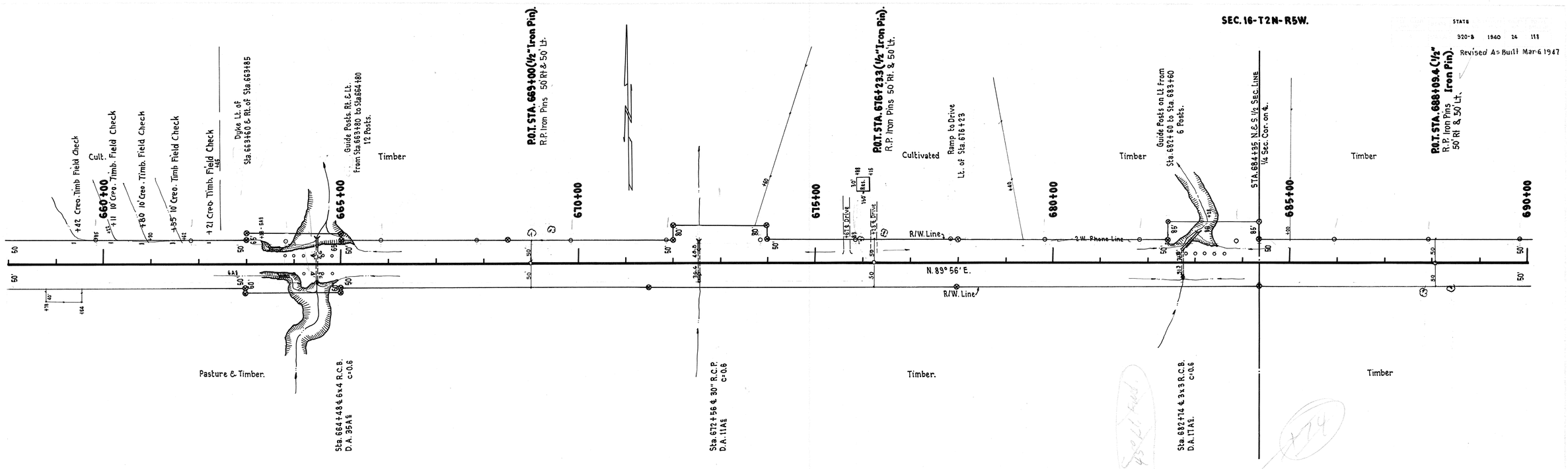
STA. 628+00 to STA. 664+30

(1)	Emb. +20%	11,862 C.Y.
	Cl. "D" Exc.	14,066 C.Y.
	Cl. "D" Borr.	536 C.Y.
	Overhaul	7,010 Sta.Y.

(1) Includes 25 C.Y. For Ramp.

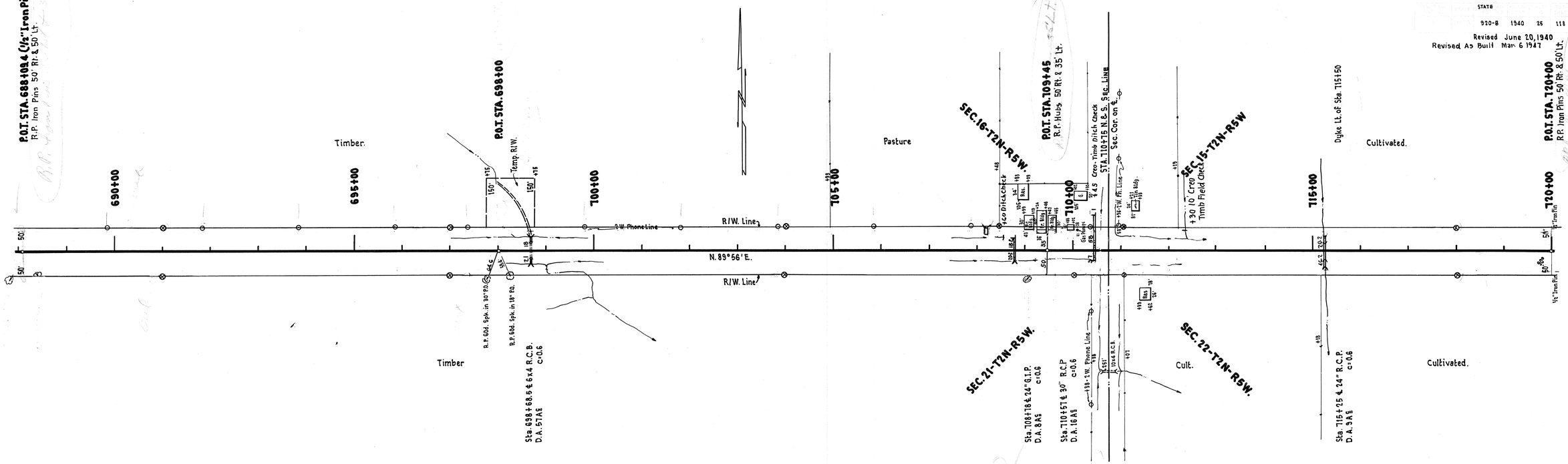
PLATE 1 PLAN-PROFILE 8 1/2" x 11" STANDARD

S.A.P. 920-B. Sh. No. 23


SEC. 16-T2N-R5W.
STATE
920-B 1940 24 118
Revised As Built Mar-6 1947
+42 Creo. Timb Field Check
Cult.
660+00
+11 10' Creo. Timb. Field Check
+80 10' Creo. Timb. Field Check
+35 10' Creo. Timb Field Check
+21 Creo. Timb. Field Check
Dyke Lt. of Sta. 663+60 & Rt. of Sta. 663+85
Guide Posts, Rt. & Lt. from Sta. 663+80 to Sta. 664+80 12 Posts.
Timber
665+00
P.O.T. STA. 669+00 (1/2" Iron Pin).
R.P. Iron Pins 50' Rt. & 50' Lt.
670+00
P.O.T. STA. 676+23.3 (1/2" Iron Pin).
R.P. Iron Pins 50' Rt. & 50' Lt.
Cultivated
Ramp to Drive Lt. of Sta. 676+23
675+00
R/W. Line
2 W. Phone Line
680+00
Timber
Guide Posts on Lt. From Sta. 682+60 to Sta. 683+60 6 Posts.
STA. 684+35 N. & S. 1/2 Sec. Line 1/4 Sec. Cor. on ℄.
685+00
Timber
P.O.T. STA. 688+09.4 (1/2" Iron Pin).
R.P. Iron Pins 50' Rt. & 50' Lt.
690+00
N. 89° 56' E.
R/W. Line
Pasture & Timber.
Sta. 664+48 & 6x4 R.C.B. D.A. 35A's c=0.6
Sta. 672+56 & 30" R.C.P. D.A. 11A's c=0.6
Timber.
Sta. 682+74 & 3x3 R.C.B. D.A. 17A's c=0.6
Timber
SEC. 21-T2N-R5W.
B.M. S.W. Corner S. Wall Drop Inlet Sta. 664+48 Elev. 1188.36
From Sta. 659+18 to Sta. 663+96 In Place 24 Creo. Timb. Ditch Chks. on Rt. & Lt. Des. TDC-1 (2-A, W-0) Sh. No. 31
Str. No. 36 Sta. 663+60 In Place 18'x20' C.M.P. Flume on Lt. 45° W. on Upstream End Only Des. CP2 Sh. No. 34
Str. No. 38 Sta. 664+48 In Place 6x4x79' Rdy. R.C.B. ~~Ext. 11'~~ with 15' Drop Inlet on Rt. Des. BC62, CD1 Sh. No. 39, 41 D.A. 35A's c=0.6
B.M. S.W. Corner S. Wall Drop Inlet Sta. 672+40 Elev. 1203.74
Sta. 665+33 In Place Creo. Timb. Ditch Checks on Lt.
B.M. ~ 60d. Spk. in 16" P.O. 83' Rt. Sta. 673+25 El. 1207.75
Str. No. 39 Sta. 672+56 In Place 30'x80' Rdy. R.C.P. ~~Ext. 16' Rt. & 24' Lt. with~~ Std. Drop Inlet on Rt. Des. CP2, CD1, 45° W. ~ Sh. No. 34, 41 D.A. 11A's c=0.6
Okla. Cons. Comm. B.M. #29 E-12, 48' Lt. Sta. 679+ El. 1205.50
B.M. N.W. Corner S. Hdwl. Culv. Sta. 682+74 El. 1193.35
Str. No. 41 Sta. 682+74 In Place 3x3x102' Rdy. R.C.B., Sk. 45' Lt. Fwd. ~~Ext. 24' Lt. at a 45° Skew~~ & 10' Drop Inlet Des. BC65, CD1 Sh. No. 40, 41 D.A. 17A's c=0.6
B.M. ~ 2-60d Spks. in 12" P.O. 72' Rt. Sta. 688+10 El. 1196.30
SHEET ESTIMATE
STA. 664+30 to STA. 697+00
(1) Emb. +20% 5,237 C.Y.
(2) Cl. "D" Exc. 4,450 C.Y.
Cl. "D" Borr. 1,675 C.Y.
Overhaul 160 Sec. Y.
(1) Includes 100 C.Y. For Dyke
(2) Includes 25 C.Y. From Ramp. & 888 C.Y. For Subgrading.
P.I. 1188.01
-4.76%
400' V.C.
+3.50%
P.I. 1205.51
250' V.C.
700' S.D.
Subgrade
+0.62%
F.L. 1198.6
P.I. 1210.55
400' V.C.
700' S.D.
-2.91%
P.I. 1196.00
250' V.C.
-0.31%
P.I. 1193.99
700' V.C.
700' S.D.
F.L. 1182.5
F.L. 1173.2
1210
1200
1190
1180
Fin. Gr. 12.15.48
As Built 1216.12
12.18 12.88 08.15 08.86 12.03.48 04.40 11.98.72 93.59 94.54 95.55 92.36 93.33 92.14 92.06 92.25 93.16 94.20 95.06 11.97.64 98.19 12.01.14 01.51 04.06 04.43 04.61 05.84 06.57 06.61 07.34 07.24 08.00 07.60 07.87 08.62 08.50 09.18 09.13 09.90 09.51 10.35 09.04 10.12 08.73 07.68 08.67 05.44 06.18 12.02.56 09.30 11.93.64 00.53 97.25 98.25 96.81 96.15 95.30 96.86 95.46 96.24 95.15 95.95 94.64 95.58 93.47 94.43 91.53 92.48 93.01 93.86 12.85.74 86.43
658 9 660 1 2 3 4 5 6 7 8 9 670 1 2 3 4 5 6 7 8 9 680 1 2 3 4 5 6 7 8 9 690
S.A.P. 920-B Sh. No. 24

STATE
920-B 1940 25 118

Revised June 20, 1940
Revised As Built Mar 6 1947



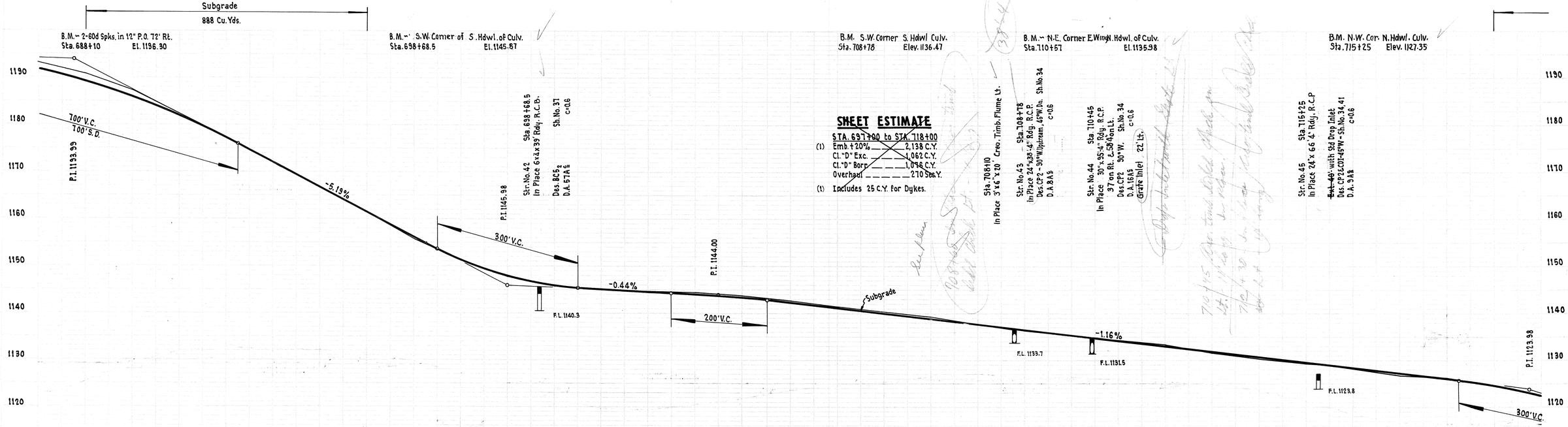


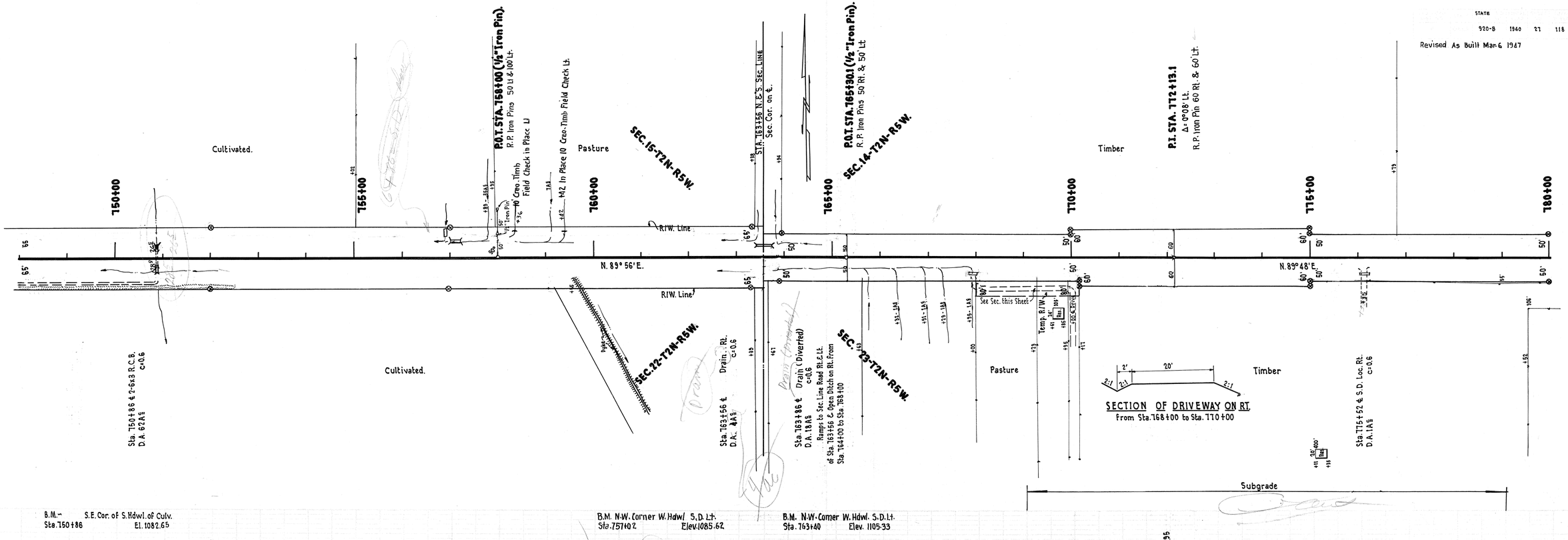
PLATE 1-PLAN-PROFILE B.P.R. STANDARDS
KEUFFEL & ESSER CO. Chicago-New York

S.A.P. 920-B Sh. No. 25

STATE
920-B 1940 26 118
Revised As Built Mar. 6 1947
SEC. 15-T2N-R5W.
SEC. 22-T2N-R5W.
P.O.T. STA. 720+00 (1/2" Iron Pin)
R.P. Iron Pins 50' Rt. & 50' Lt.
P.O.T. STA. 733+91.5 (1/2" Iron Pin)
R.P. Iron Pins 50' Lt. & 100' Lt.
P.O.T. STA. 747+50 (1/2" Iron Pin)
R.P. Iron Pins 65' R.L.L.
Cultivated.
Cult.
Alfalfa.
Pasture
Ramp to Drive
Lt. of Sta. 723+14
Ramp to Drive
Rt. of Sta. 734+12
Metal Plate Guard Rail on Rt. & Lt.
From Sta. 746+82 to Sta. 746+32 ℄
From Sta. 741+00 to Sta. 741+50
200 Lin. Ft.
Sta. 725+07 & 6x4 R.C.B.
C=0.8
D.A. 41 A's.
Sta. 731+52 & 24" R.C.P.
C=0.6
D.A. 6 A's
Sta. 738+03 & S.D. Loc. Lt.
C=0.6
D.A. 1 A's
Sta. 746+66.3 ℄
D.A. 8640 A's
R.P. 60d Spk. in 3" Dike
℄ Dike
R.I.W. Line
N. 89° 56' E.
720+00
725+00
730+00
735+00
740+00
745+00
750+00
Subgrade
650 Cu. Yds.
B.M.- S.E. Cor. of S. Hdwl. of Culv.
Sta. 725+07 El. 1105.50
B.M. S.W. Corner S. Hdwl. Culvert
Sta. 731+60 Elev 1104.28
B.M.-"X" on N.E. Wingwall of Br. Lt.
Sta. 746+98 El. 1086.75
P.I. 1123.98
P.I. 1106.03
P.I. 1086.00
300' V.C.
-3.42%
0.0%
400' V.C.
100' S.D.
-3.60%
250' V.C.
200' V.C.
F.L. 1100.0
F.L. 1102.6
H.W. 1083.0
Str. No. 46
In Place 6x4 47 Rdy. R.C.B.
Sta. 725+07
Wier 3' Above F.L.
Des. B-5, & CD1
D.A. 41 A's
Shs. No. 37, 41
C=0.6
Sta. 726+00
In Place 10' Creo. Timb. Field Check Lt.
Des. TDC-1
Sh. No. 31
Sta. 727+35
In Place 10' Creo. Timb. Field Chk. on Lt.
Des. TDC-1
Sh. No. 31
Sta. 731+52
In Place 10' Creo. Timb. Field Chk. on Rt.
Des. TDC-1
Sh. No. 31
Str. No. 41
In Place 24" x 50.7 Rdy. R.C.P.
Sta. 731+52
Des. CP2 45° W.
D.A. 6 A's
Sh. No. 34
C=0.6
Sta. 734+30
In Place 3'x6'x20' Creo. Timb. Flume Lt.
Str. No. 48
In Place 2x1x20' Timb. S.D.L.
Sta. 738+03
Des. TS9-1
D.A. 1 A's
Sh. No. 32
C=0.6
Sta. 746+15
In Place Creo Timb Ditch Check 14' Long on Lt.
Str. No. 49
In Place 52' T-Brn Span 24' Rdy.
Sta. 746+66.29
Std. Des. TB-6
D.A. 8640 A's
Sh. No. 44, 47
C=0.6
End of Slab Sta. 746+34.58
End of Slab Sta. 746+98.00
Sec. "B" Br.
63.42'
SHEET ESTIMATE
STA. 718+00 to STA. 749+00
(1) Emb. +20% 5,101 C.Y.
(2) Cl. "D" Exc. 2,479 C.Y.
(3) Cl. "D" Borr. 3,612 C.Y.
Overhaul 4,210 Sec. Y.
(1) Includes 50 C.Y. for Ramps
(2) Includes 650 C.Y. for Subgrading.
(3) Borr. reduced 200 C.Y. from Sec. "B" Br.
Fin. Gr. "As Built"
1126.01 1124.90
24.64 25.33
22.54 23.05
19.69 20.31
16.29 15.95
12.81 13.37
03.53 10.17
07.31 07.93
06.17 06.93
06.03 06.84
06.76
06.78
06.78
06.66
06.03 06.66
06.03 06.60
05.58 06.21
04.23 04.96
1101.98 02.66
1098.83 99.51
95.23 96.01
91.63 92.35
88.44 89.27
86.41 87.32
86.00 86.08
86.61
86.76
86.49
86.00 86.43
86.00 86.56
85.97 86.44
85.70 86.46
1085.18 85.97
S.A.P. 920-B Sh. No. 26

STATE
920-B 1940 27 118

Revised As Built Mar. 6 1947

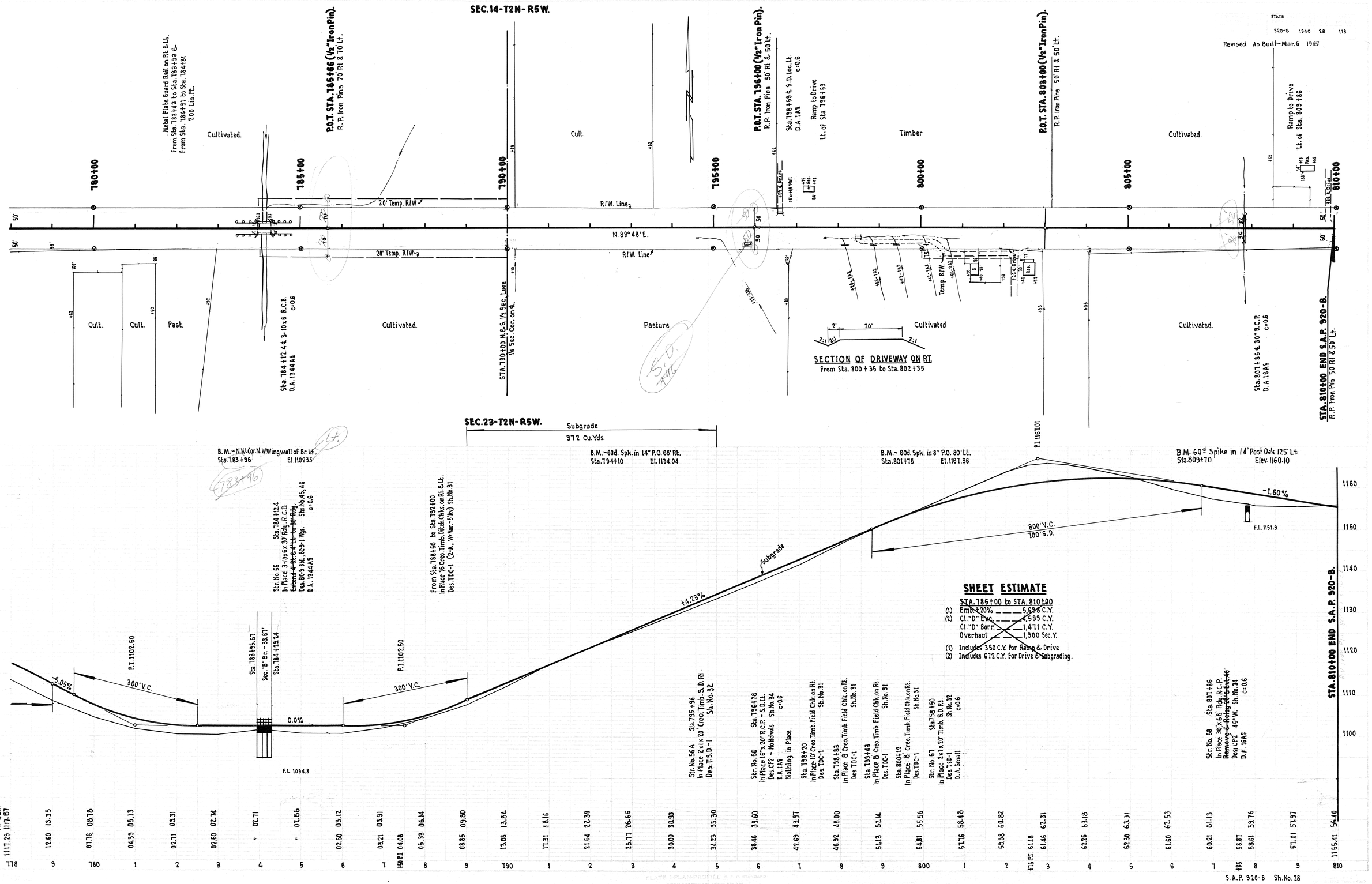


SHEET ESTIMATE

STA. 749+00 to STA. 785+00

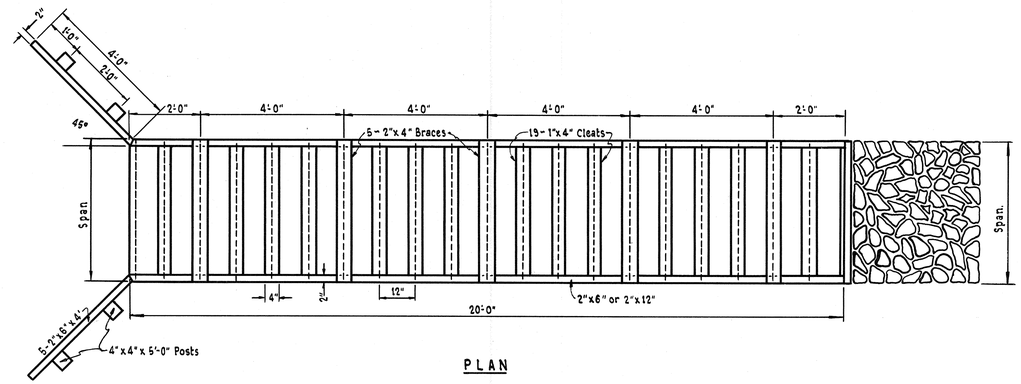
(1)	Emb. @ 90%	21,019 C.Y.
(2)	Cl. "D" Exc.	20,986 C.Y.
	Cl. "D" Borr.	1,143 C.Y.
	Overhaul	19,360 Sec.Y.

(1) Includes 800 C.Y. For Ramps & Drive
(2) Includes 1410 C.Y. For Drive & Subgrading.

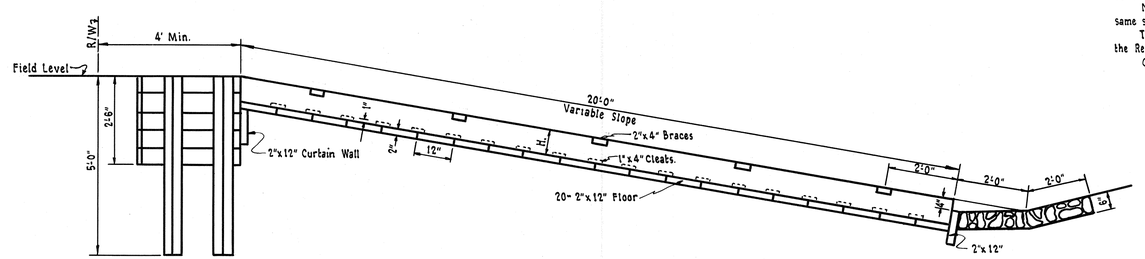

SEC. 14-T2N-R5W.
STATE
920-B 1940 28 118
Revised As Built-Mar. 6 1947
Metal Plate Guard Rail on Rt. & Lt.
From Sta. 783+43 to Sta. 783+93 &
From Sta. 784+31 to Sta. 784+81
200 Lin. Ft.
Cultivated.
P.O.T. STA. 785+66 (1/2" Iron Pin).
R.P. Iron Pins 70' Rt & 70' Lt.
Cult.
P.O.T. STA. 796+00 (1/2" Iron Pin).
R.P. Iron Pins 50' Rt & 50' Lt.
Sta. 796+59 & S.D. Loc. Lt.
D.A. 1.14%
Ramp to Drive
Lt. of Sta. 796+53
Timber
P.O.T. STA. 803+00 (1/2" Iron Pin).
R.P. Iron Pins 50' Rt & 50' Lt.
Cultivated.
Ramp to Drive
Lt. of Sta. 803+86
780+00
785+00
790+00
795+00
800+00
805+00
810+00
20' Temp. R/W
R/W. Line
N. 89° 48' E.
R/W. Line
20' Temp. R/W
Cult.
Cult.
Past.
Sta. 784+12.4 & 3-10x6 R.C.B.
c=0.6
D.A. 1.944%
Cultivated.
STA. 790+00 N. & S. 1/4 Sec. Line
1/4 Sec. Cor. on Rt.
Pasture
Temp. R/W
Cultivated
Cultivated.
Sta. 807+85 & 30" R.C.P.
c=0.6
D.A. 1.16%
STA. 810+00 END S.A.P. 920-B.
R.P. Iron Pin 50' Rt & 50' Lt.
2'
20'
SECTION OF DRIVEWAY ON RT.
From Sta. 800+35 to Sta. 802+35
SEC. 23-T2N-R5W.
Subgrade
372 Cu. Yds.
B.M. - N.W. Cor. N.W. Wingwall of Br. Lt.
Sta. 783+96 El. 1102.35
B.M. - 60d. Spk. in 14" P.O. 65' Rt.
Sta. 794+10 El. 1134.04
B.M. - 60d. Spk. in 8" P.O. 80' Lt.
Sta. 801+75 El. 1167.36
P.I. 1167.01
B.M. 60d Spike in 14" Post Oak 125' Lt.
Sta. 809+70 Elev. 1160.10
-1.60%
800' V.C.
700' S.D.
F.L. 1151.9
Str. No. 55
In Place 3-10x6 X 30' Rdg. R.C.B.
Extend 4 Rt. & 4 Lt. to 39' Rdg.
Des. BC-5 Bk., BC-5-1 Wgs.
D.A. 1.944%
Sta. 784+12.4
Shs. No. 45, 48
c=0.6
Sta. 783+95.57
Sec. "B" Br. - 33.67'
Sta. 784+23.24
P.I. 1102.50
-5.05%
300' V.C.
0.0%
F.L. 1094.8
From Sta. 788+50 to Sta. 792+00
In Place 16 Cres. Timb. Ditch Chks. on Rt. & Lt.
Des. TDC-1 (2-A, W-Var.-5'Av) Sh. No. 31
P.I. 1102.50
300' V.C.
+4.23%
Subgrade
Str. No. 56A Sta. 795+96
In Place 2x1 x 20' Cres. Timb. S.D. Rt.
Des. T-S.D.-1 Sh. No. 32
Str. No. 56 Sta. 796+78
In Place 15" x 20' R.C.P. - S.D. Lt.
Des. CP2 - Nobdvls Sh. No. 34
D.A. 1.14%
Nothing in Place.
c=0.6
Sta. 798+20
In Place 10' Cres. Timb. Field Chk. on Rt.
Des. TDC-1 Sh. No. 31
Sta. 798+83
In Place 8' Cres. Timb. Field Chk. on Rt.
Des. TDC-1 Sh. No. 31
Sta. 799+43
In Place 8' Cres. Timb. Field Chk. on Rt.
Des. TDC-1 Sh. No. 31
Sta. 800+12
In Place 8' Cres. Timb. Field Chk. on Rt.
Des. TDC-1 Sh. No. 31
Str. No. 51 Sta. 798+50
In Place 2x1 x 20' Timb. S.D. Rt.
Des. T-S.D.-1 Sh. No. 32
D.A. Small
c=0.6
Str. No. 58 Sta. 807+85
In Place 30" x 68' Rdg. R.C.P.
Remove 3-Rdg. 18 Sec. 46'
Des. CP2 45° W. Sh. No. 34
D.A. 1.16%
c=0.6
STA. 810+00 END S.A.P. 920-B.
SHEET ESTIMATE
STA. 785+00 to STA. 810+00
(1) Emb. +20% 5,694 C.Y.
(2) Cl. "D" Exc. 4,595 C.Y.
Cl. "D" Borr. 1,471 C.Y.
Overhaul 1,900 Sec. Y.
(1) Includes 350 C.Y. for Ramp & Drive
(2) Includes 672 C.Y. For Drive & Subgrading.
Fin. Gr. As Built
1117.29 1117.87
12.60 13.35
01.76 00.78
04.33 05.13
02.11 03.31
02.50 02.74
" 02.71
" 02.86
02.50 03.12
03.21 03.91
P.I. 04.08
05.33 06.14
08.85 09.80
13.08 13.84
17.31 18.16
21.54 22.39
25.77 26.65
30.00 30.93
34.23 35.30
38.46 39.60
42.69 43.97
46.92 48.00
51.13 52.14
54.81 55.56
57.76 58.48
59.98 60.82
P.I. 61.18
61.46 62.31
62.26 63.18
62.30 63.31
61.60 62.53
60.21 61.13
58.87
58.61 59.76
57.01 57.97
1155.41 56.40
S.A.P. 920-B Sh. No. 28

FED. ROAD DIST. NO.	STATE	STATE AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.	920-A&B	1940	30	118

CREOSOTED TIMBER FLUME.



PLAN



SIDE ELEVATION.

GENERAL NOTES.

Timber for use in Creo. Timb. Flumes shall meet the requirements for common struct. timber S4S as specified in Sec. 727 of the *Oklahoma Standard Specifications of 1937*, and shall be treated as specified in Sec. 731.02, except that preservative retained shall be 8 Lbs. per Cu. Ft.

Nails shall be 6d. for cleats and 16d. for all other pieces. The cost of same shall be included in the unit price bid per M.F.B.M.

The location of all Flumes are approx. only and shall be placed as directed by the Resident Engineer to fit the conditions as found in the Field.

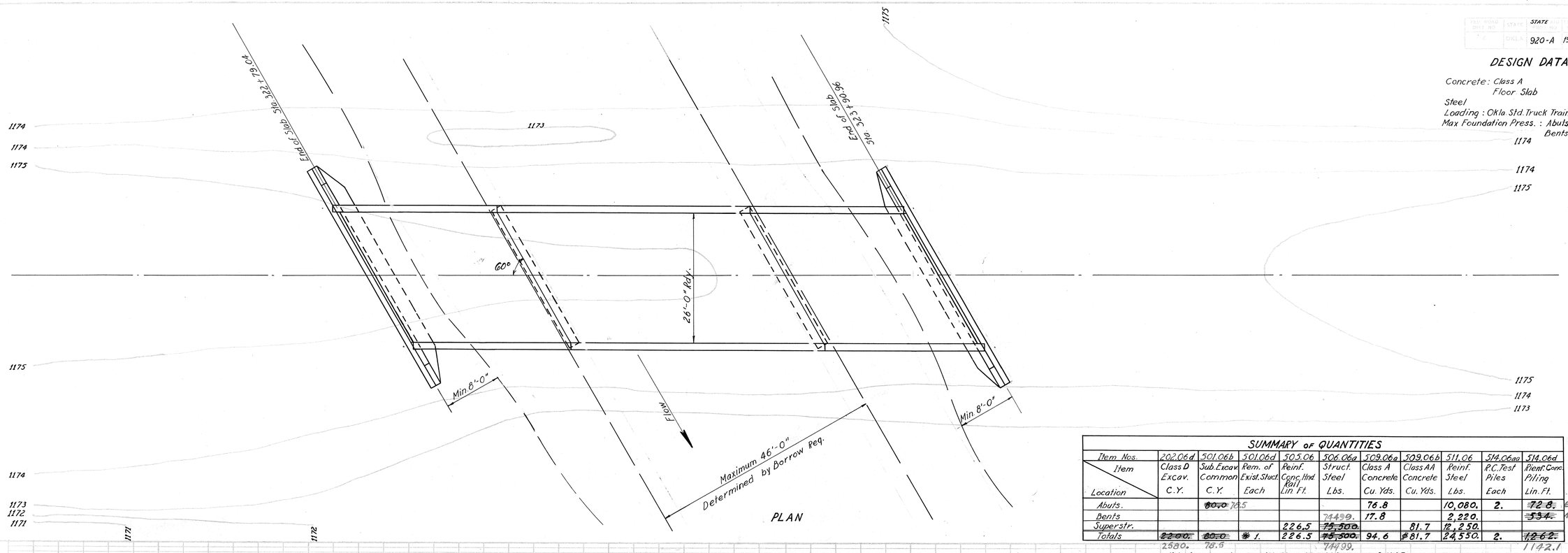
Cost of excavation shall be included in the unit price bid per M.F.B.M.

SPAN	HEIGHT	AREA OF OPENING Sq. Ft.	QUANT. FOR 20' TROUGH F.B.M.	PER FOOT OF TROUGH F.B.M.	QUANT. FOR TWO WINGS F.B.M.	PLAIN RIP-RAP Cu. Yds.
3'	6"	1.33	201	9	67	0.21
4'		1.83	255	11		0.28
5'		2.33	308	14		0.35
6'		2.83	362	16		0.43
4'	12"	3.67	295	13		0.28
5'		4.67	348	16		0.35
6'		5.67	402	18		0.43

FED. ROAD DIST. NO.	STATE	STATE PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.	920-A	1940	42	118

DESIGN DATA

Concrete: Class A — 650#/□"
Floor Slab — 800#/□"
Steel — 16000#/□"
Loading: Okla. Std. Truck Train Plus 30% Impact.
Max Foundation Press.: Abuts.: 19.5 tons/pile
Bents: 22.3 tons/pile



PLAN

SUMMARY OF QUANTITIES

Item Nos.	202.06d	301.06b	301.06d	505.06	506.06a	509.06a	509.06b	511.06	514.06aa	514.06d
Item / Location	Class D Excav. C.Y.	Sub. Excav. Common C.Y.	Rem. of Exist. Stuct. Each	Reinf. Conc. Hnd. Rail Lin. Ft.	Struct. Steel Lbs.	Class A Concrete Cu. Yds.	Class AA Concrete Cu. Yds.	Reinf. Steel Lbs.	R.C. Test Piles Each	Reinf. Conc. Piling Lin. Ft.
Abuts.		~~80.0~~ 78.5				76.8		10,080.	2.	~~72.8.~~ 687.5
Bents					74499.	17.8		2,220.		~~534.~~ 454.6
Superstr.				226.5	~~75,500.~~		81.7	12,250.		
Totals	~~22800.~~ 2580.	~~80.0~~ 78.5	* 1.	226.5	~~75,500.~~ 74499.	94.6	* 81.7	24,550.	2.	~~1262.~~ 1142.1

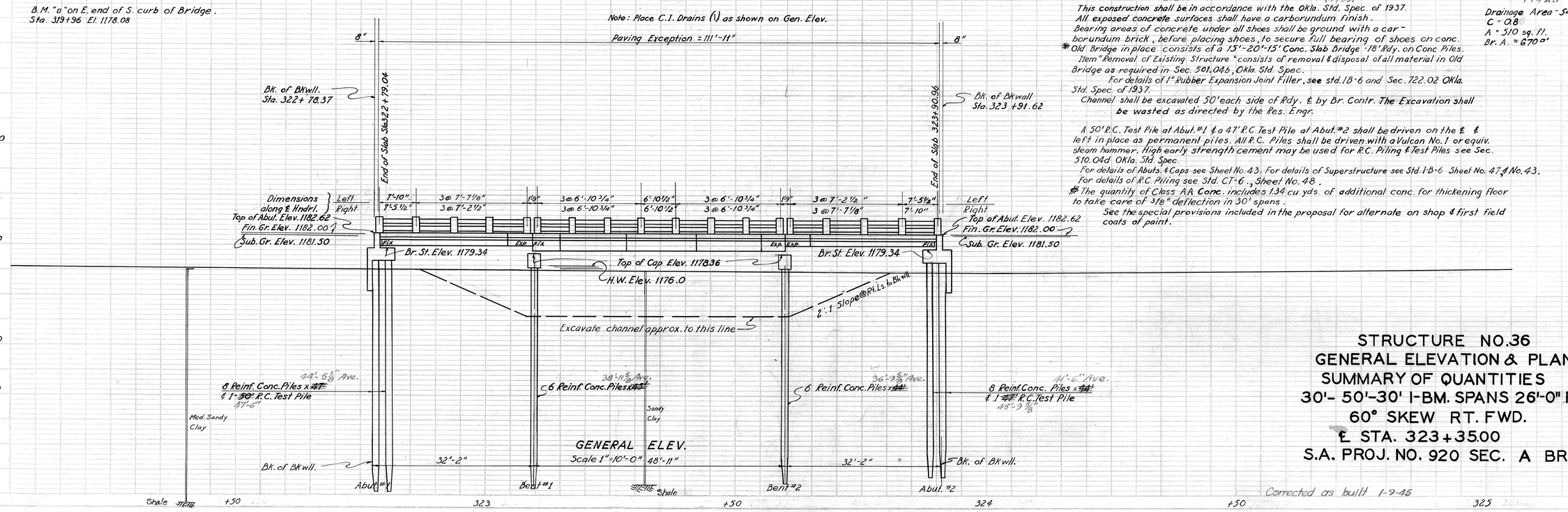
B.M. "a" on E. end of S. curb of Bridge. Sta. 319+96 El. 1178.08

Note: Place C.I. Drains (1) as shown on Gen. Elev.

Drainage Area - 5440 Ac.
C - 0.8
A = 510 sq. ft.
Br. A. = 670 □'

This construction shall be in accordance with the Okla. Std. Spec. of 1937.
All exposed concrete surfaces shall have a carborundum finish.
Bearing areas of concrete under all shoes shall be ground with a carborundum brick, before placing shoes, to secure full bearing of shoes on conc.
* Old Bridge in place consists of a 13'-20'-15' Conc. Slab Bridge - 18' Rdy. on Conc. Piles.
Item "Removal of Existing Structure" consists of removal & disposal of all material in Old Bridge as required in Sec. 501.04b, Okla. Std. Spec.
For details of 1" Rubber Expansion Joint Filler, see std. 1B-6 and Sec. 722.02 Okla. Std. Spec. of 1937.
Channel shall be excavated 50' each side of Rdy. ℄ by Br. Contr. The Excavation shall be wasted as directed by the Res. Engr.

A 50' R.C. Test Pile at Abut. #1 & a 47' R.C. Test Pile at Abut. #2 shall be driven on the ℄ & left in place as permanent piles. All R.C. Piles shall be driven with a Vulcan No. 1 or equiv. steam hammer. High early strength cement may be used for R.C. Piling & Test Piles see Sec. 510.04d Okla. Std. Spec.
For details of Abuts. & Caps see Sheet No. 43. For details of Superstructure see Std. 1-B-6 Sheet No. 47 & No. 43.
For details of R.C. Piling see Std. CT-6., Sheet No. 48.
The quantity of Class AA Conc. includes 1.34 cu. yds. of additional conc. for thickening floor to take care of 3/8" deflection in 30' spans.
See the special provisions included in the proposal for alternate on shop & first field coats of paint.



GENERAL ELEV.
Scale 1" = 10'-0"

Corrected as built 1-9-45

STRUCTURE NO. 36
GENERAL ELEVATION & PLAN
SUMMARY OF QUANTITIES
30'- 50'-30' I-BM. SPANS 26'-0" RDY.
60° SKEW RT. FWD.
℄ STA. 323+35.00
S.A. PROJ. NO. 920 SEC. A BR.

J.L.M. & R.M.

Traced By Marshall 3-40
Chkd. " W.C.Z.

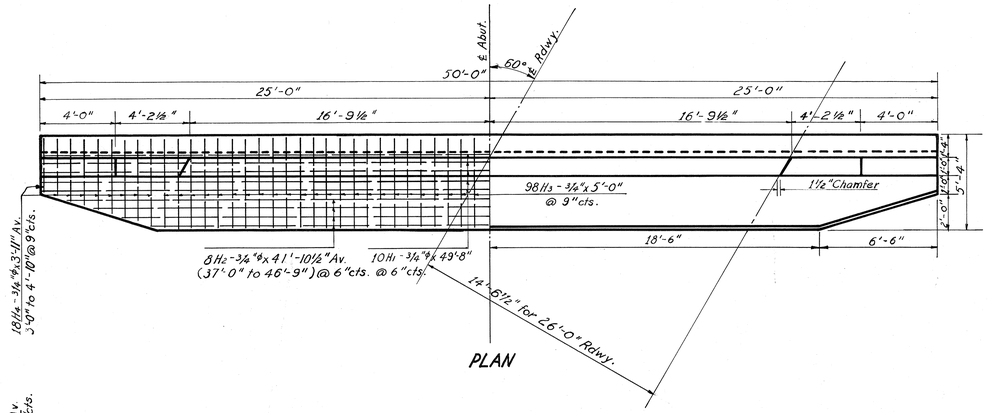
Drawn by G.M. March, 1940
Soundings by Hedrick

PLATE I-PLAN-PROFILE B.P.R. STANDARD
EUGENE STITZGEN CO. Chicago-New York

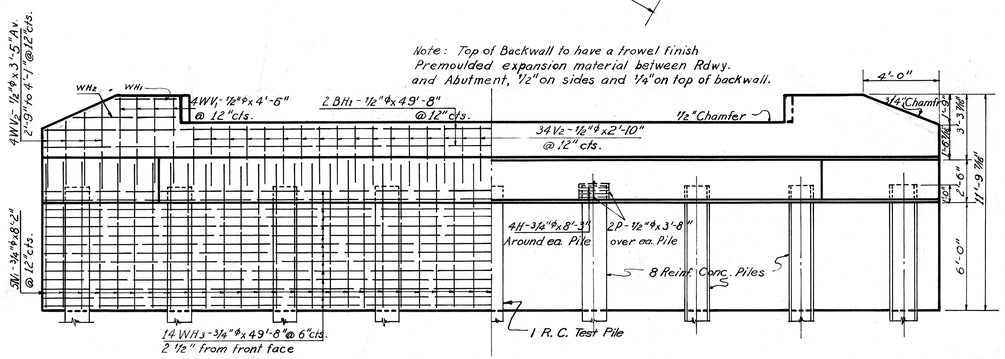
A 42

FED. ROAD DIST. NO	STATE	STATE AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.	920-A-BR	1940	43	118

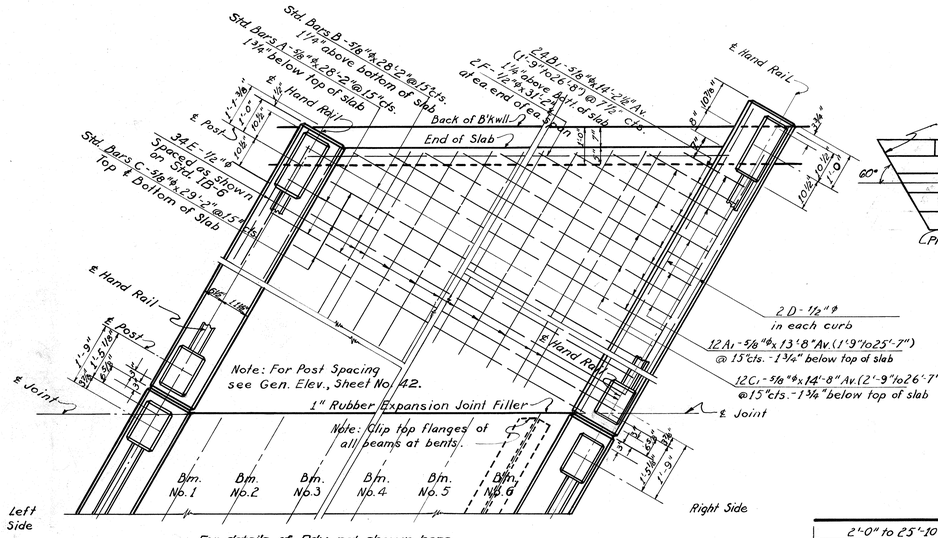
Rev. 6-25-40



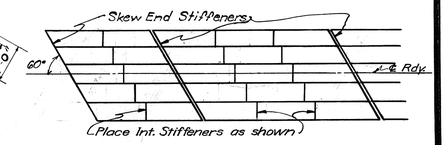
PLAN



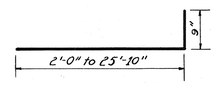
ELEVATION



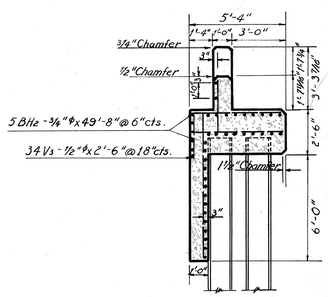
PART PLAN OF ROADWAY



STIFFENER DIAGRAM

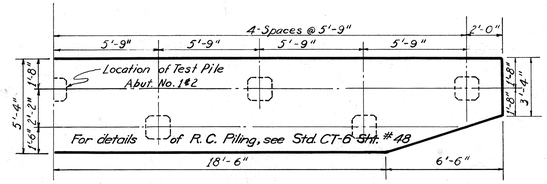


C1 - ⅝"φ x 14'-8" Av. (2'-9" to 26'-7")



SECTION ON ℄

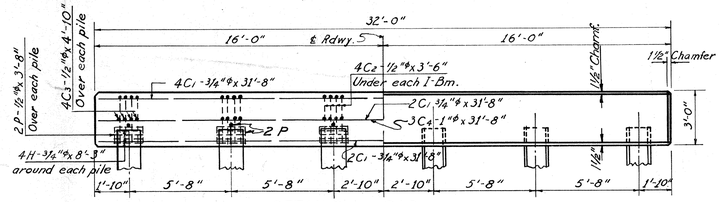
BAR LIST 1-ABUT.				
Mark	No.	Size	Form	Length
H	36	¾"φ	Bnt.	8'-3"
H1	10	"	Str.	49'-8"
H2	8	"	"	41'-10½" Av.
H3	98	"	"	5'-0"
H4	36	"	"	3'-11" Av.
WH1	2	½"φ	"	4'-1"
WH2	2	"	"	6'-4"
WH3	14	¾"φ	"	49'-8"
BH1	2	½"φ	"	49'-8"
BH2	5	¾"φ	"	49'-8"
V1	51	"	"	8'-2"
V2	34	½"φ	"	2'-10"
WV1	8	"	"	4'-6"
WV2	8	"	"	3'-5" Av.
P	18	"	Bnt.	3'-8"
V3	34	"	Str.	2'-6"



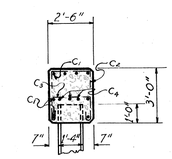
HALF PLAN PILE SPACING DIAGRAM

QUANTITIES

	Abt. #1		Abt. #2
Class A Concrete	38.4	C.Y.	38.4
Reinf. Steel	5040.	Lbs.	5040.
R.C. Test Piles	1	Ea.	1
R.C. Piling	~~358.4~~ ~~376.~~	L.F.	~~352.~~ 332.1
Sub. Excav. Common	40.	C.Y.	40.



DETAILS OF CAP

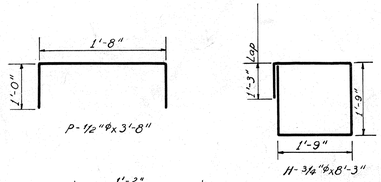


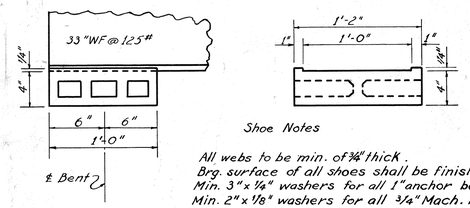
SECTION ON ℄

BAR LIST 1-CAP				
Mark	No.	Size	Form	Length
C1	8	¾"φ	Str.	31'-8"
C2	24	½"φ	Bnt.	3'-6"
C3	24	"	"	4'-10"
C4	3	1"φ	Str.	31'-8"
H	24	¾"φ	Bnt.	8'-3"
P	12	½"φ	"	3'-8"

QUANTITIES

	Bent #1		Bent #2
Class A Conc.	8.9	C.Y.	8.9
Reinf. Steel	1110.	Lbs.	1110.
R.C. Piling	233.8 ~~270.~~	L.F.	~~264.~~ 220.8

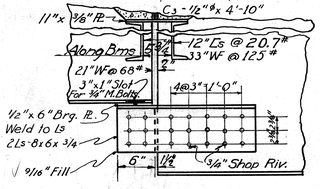




Shoe Notes

All webs to be min. of ¾" thick.
Brg. surface of all shoes shall be finished.
Min. 3" x ⅛" washers for all 1" anchor bolts.
Min. 2" x ⅛" washers for all ¾" Mach. bolts.
For details of Abut. shoes see Std. IB-6, Sh. No.

DETAILS OF BENT SHOES



DETAIL OF BRACKET @ BENTS

Note: Anchor all Bms. at ends marked "Fix" on Gen. Elev. with two 1" x 1'-6" anchor bolts.

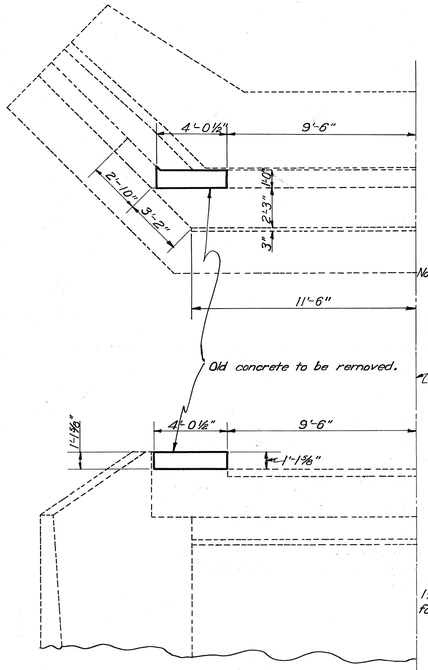
Note: For this job only, shift end spans 1½" toward backwalls to give 2" for the joints over bents without requiring the central beams to be re-cut.

Traced by J.L.M. Feb. 1940
Checked by W.E.Z. Feb. 1940

STRUCTURE NO. 36
DETAILS OF ABUTS. CAPS & RDY.
℄ STA. 323+35.00
S.A. PROJECT NO. 920-A-BR.

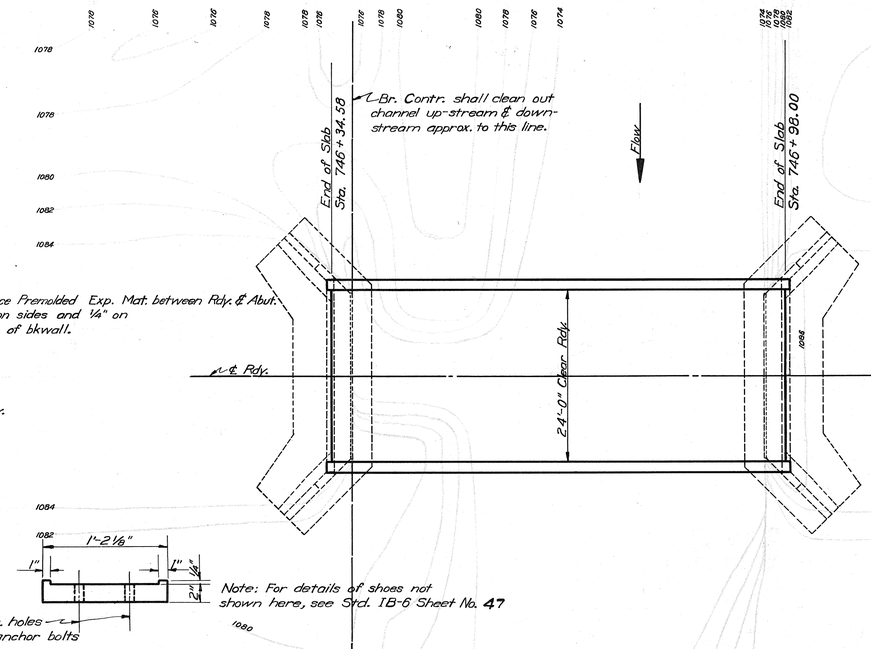
Corrected as built 1-9-46

A Sheet No. 43



Note: Place Premolded Exp. Mat. between Rdy. & Abut. ½" on sides and ¼" on top of bkwall.

DETAILS OF ABUTMENT REVISION



PLAN

Note: For details of shoes not shown here, see Std. IB-6 Sheet No. 47

SHOE DETAILS

Note: Anchor all I-Brms. with 2-1" anchor bolts. Slot brms. at end marked "Exp." on Gen. Elev. Holes for 1" anchor bolts shall be drilled 1'-0" into old concrete and anchor bolts grouted in place.

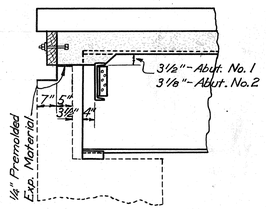
DESIGN DATA

Concrete: Floor Slab . 800 #/□"
Steel: 16,000 #/□"
Loading: Okla. Std. Truck Train Plus 30 % Impact
Max. Foundation Pressure: Abuts: 17. Tons/pile (in place)

SUMMARY OF QUANTITIES

Item Nos.	202.06d	501.06d	505.06	506.06a	509.06b	511.06
Items	Class D Excavation C.Y.	Removal of Exist. Struct. Each	Reinf. Conc. Hand Rail L.F.	Structural Steel Lbs.	Class "AA" Concrete C.Y.	Reinforcing Steel Lbs.
Totals	# 200 362	* 1.	128.7	~~61,300.~~ 61,027.	42.1	5,790.

D.A. = 8640 Ac.
C = 0.6
A. Req. = 540 □'
Br. Area = 550 □'

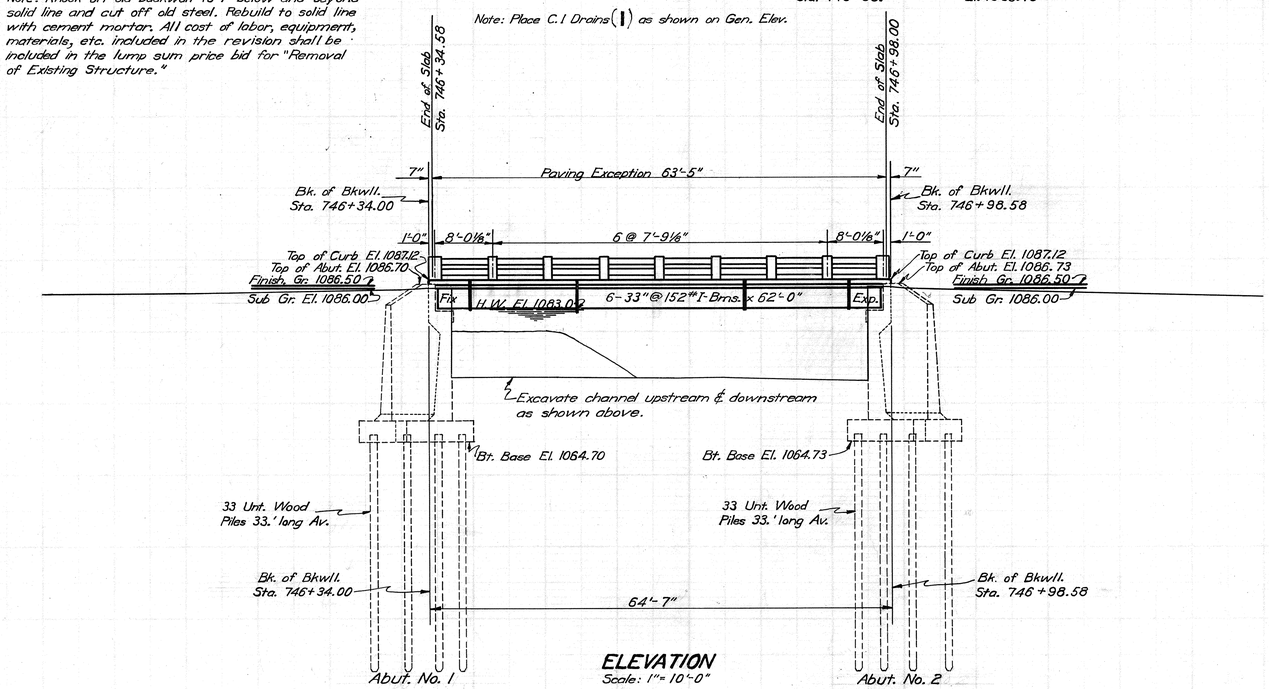


SECTION ON ℄

Note: Knock off old backwall to 1" below and beyond solid line and cut off old steel. Rebuild to solid line with cement mortar. All cost of labor, equipment, materials, etc. included in the revision shall be included in the lump sum price bid for "Removal of Existing Structure."

B.M.-"X" on N.E. wingwall of bridge Lt. Sta. 746+98. El. 1086.75

Note: Place C.I Drains (|) as shown on Gen. Elev.



ELEVATION

Scale: 1" = 10'-0"

GENERAL NOTES

This construction shall be in accordance with the Okla. Std. Spec. of 1937.

All exposed concrete surfaces shall have a carborundum finish.

Bearing areas of concrete under all shoes shall be ground with a carborundum brick, before placing shoes, to secure full bearing of shoes on concrete.

Old bridge in place consists of a 60' Riveted Truss, 18' Rdy. on concrete pile abutments.

* Item "Removal of Existing Structure" consists of removing and disposing of all material in the old superstructure in accordance with Sec. 501.04b of Okla. Sta. Spec. and removal of old concrete in the present abutments as shown on the plans. The existing structure contains the following quantities to be removed:- approx. 27 C.Y. of floor conc., approx. 46,000# of Struct. Steel, and approx. 0.7 C.Y. of Abut. Concrete.

* Old 60' Riveted Truss shall be match-marked when dismantled.

Any variation of ¼" or more in elevation of Bridge Seats shall be corrected with steel shim plates. Any variation less than ¼" shall be taken care of in the concrete floor.

For details of superstructure not shown, see Std. IB-6 Sheet No. 47

\# Excavation shall be placed in the Rdy. as directed by the Res. Eng.

The Contr. shall furnish the necessary data for shim plates under the shoes for I-Brms. to the Bridge Eng. before the shop details are approved.

See the special provisions included in the proposal for alternate on shop and first field coats of paint.

STRUCTURE NO. 49
GENERAL ELEVATION & PLAN
SUMMARY OF QUANTITIES
REPLACE 60' TRUSS-18' RDY. WITH 62'-0" I-BM., 24'-0" RDY.
℄ STA. 746+66.29
S.A.P. NO. 920-B-BR.

Drawn by: C.H.D. Feb. 1940
Checked by: W.C.Z. 8-6-40