FED. ROAD DIST. NO.	STATE	FED. AID PROJECT	SHEET NO.	TOTAL SHEETS
6	MO.	246(1)234	1	
DIV. NO.	COUNTY		ROUTE	SEC. NO.
4	Johnson		12	

MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD

FEDERAL AID PROJECT

JOHNSON COUNTY

434

INDEX OF SHEETS

SHEET NO.		STA.	TO STA.
" " 2	TYPICAL CROSS-SECTION OF IMPROVEMENT		
" " 3	PLAN AND PROFILE	210+00	240+00
" " 4	" " "	240+00	270+00
" " 5	" " "	270+00	300+00
" " 6	" " "	300+00	330+00
" " 7	" " "	330+00	360+00
" " 8	" " "	360+00	390+00
" " 9	" " "	390+00	420+00
" " 10	" " "	420+00	450+00
" " 11	" " "	450+00	480+00
" " 12	" " "	480+00	510+00
" " 13	" " "	510+00	540+00
" " 14	" " "	540+00	570+00
" " 15	" " "	570+00	600+00
" " 16	" " "	600+00	630+00
" " 17	" " "	630+00	660+00
" " 18	" " "	660+00	690+00
" " 19	" " "	690+00	720+00
" " 20	" " "	720+00	750+00
" " 21	" " "	750+00	780+00
" " 22	" " "	780+00	810+00
" " 23	" " "	810+00	840+00
" " 24	" " "	840+00	870+00
" " 25	" " "	870+00	900+00
" " 26	" " "	900+00	930+00
" " 27	" " "	930+00	960+00
" " 28	" " "	960+00	990+00
" " 29	" " "	990+00	1020+00
" " 30	" " "	1020+00	1050+00
" " 31	" " "	1050+00	1080+00
" " 32	" " "	1080+00	1110+00
" " 33	" " "	1110+00	1140+00

INDEX OF SHEETS CONTINUED

SHEET NO.		STA.	TO STA.
" " 34	PLAN AND PROFILE	1140+00	1170+00
" " 35	" "	1170+00	1200+00
" " 36	" "	1200+00	1230+00
" " 37	" "	1230+00	1260+00
" " 38	" "	1260+00	1290+00
" " 39	" "	1290+00	1320+00
" " 40	" "	1320+00	1331+68.2
" " 41	CROSS SECTIONS		

SCALES
PLAN 1 IN. = 100 FT
PROFILE HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT
CROSS-SECTIONS 1 IN. = 5 FT



CONVENTIONAL SIGNS

STATE AND NATIONAL LINE	LEVEE
COUNTY LINE	CULVERTS
CITY, VILLAGE OR BOROUGH	DROP INLET
TOWNSHIP LINE	TROLLEY POLE
SECTION LINE	POWER POLE
GRANT LINE	TELEPHONE OR TELEGRAPH POLE
FENCE LINE	MARSH
GUARD RAIL	HEDGE
UNFENCED PROPERTY	GROUND ELEVATION
RIGHT OF WAY LINE	
TRAVELED WAY	
RAILROADS	GRADE ELEVATION
RETAINING WALL	SURFACE LINE
BASE OR SURVEY LINE	GRADE LINE

SCALE
1 INCH = 1 MILE

EXCEPTIONS

EQUATIONS

800+726	= 800+40.8 ahead	
881+35.4	= 881+220	"
918+281	= 918+50.9	"
924+470	= 922+470	"
1299+593	= 1304+050	"
1331+68.2	= 1332+00	"
1213+36.7	= 1212+629	"

LENGTH OF PROJECT.

APPARENT LENGTH	FT =	MILES
CROSS LENGTH	"	"
NET LENGTH	"	"

SUBMITTED

CHIEF ENGINEER MO. STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL

DISTRICT ENGINEER - DISTRICT NO. 6

RECOMMENDED FOR APPROVAL

CHIEF ENGINEER BUREAU PUBLIC ROADS

APPROVED

OF PUBLIC ROADS

MISSOURI STATE HIGHWAY COMMISSION
ESTIMATE SHEET

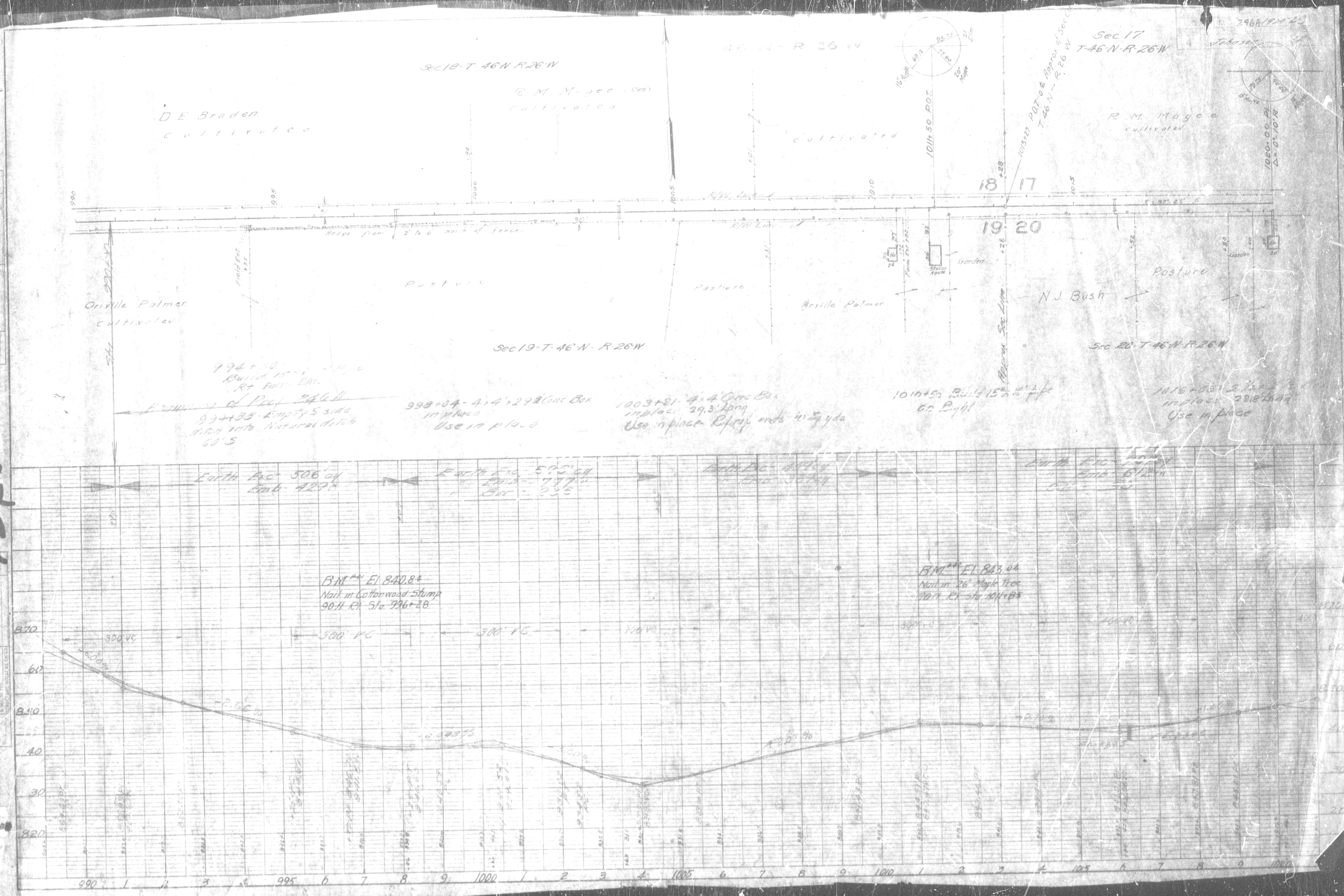
FED. ROAD DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	MO.				
DIV. NO.	COUNTY			ROUTE	SEC. NO.
4	Johnson			72	296-A

County of Johnson
Length 6.63E miles

Description of paving Graded Earth
Prepared by E.B. Stall Date Name of road St Louis - Kansas City

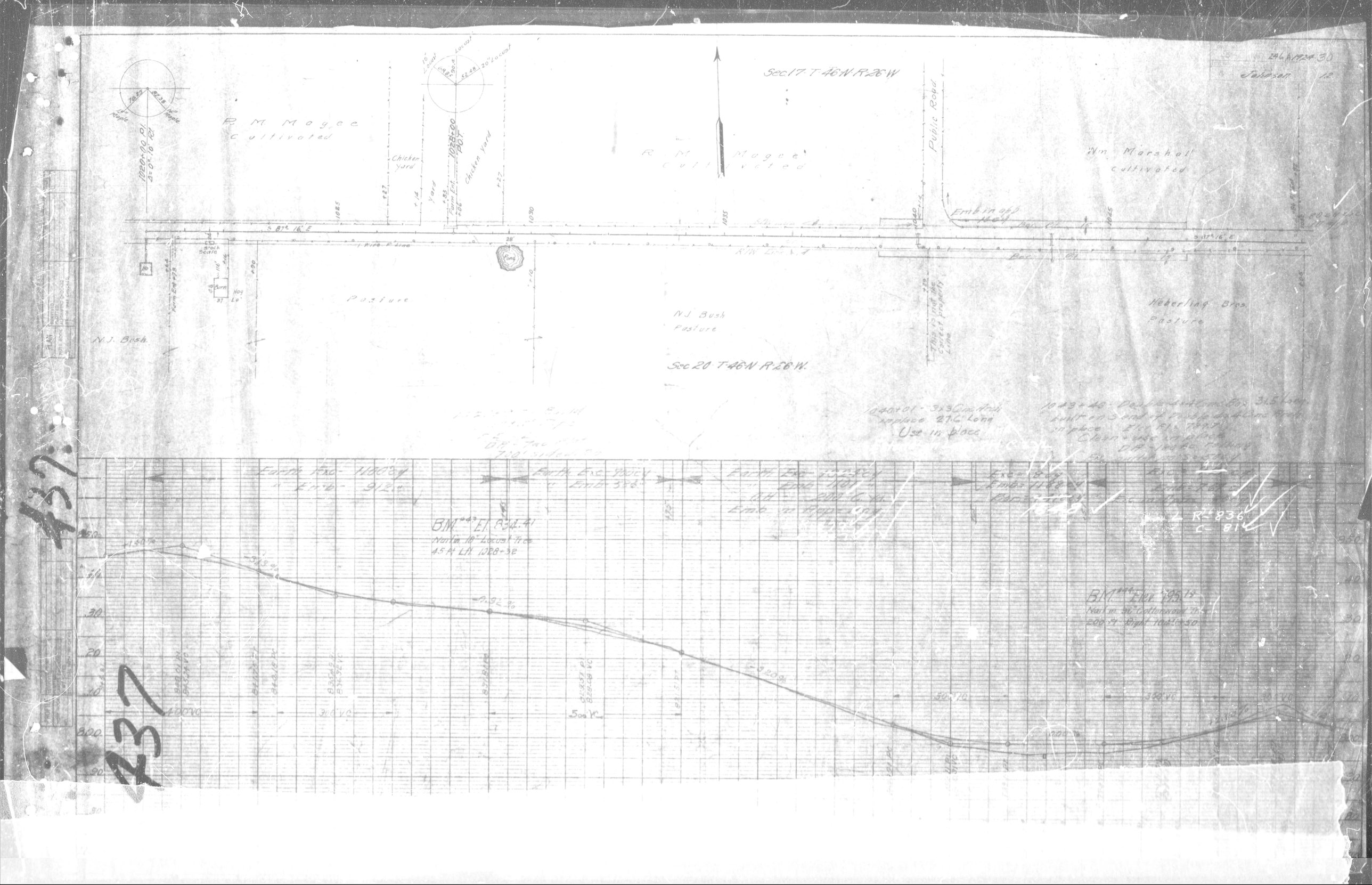
EXCAVATION

Sta.	Earth	Loose Solid	Rock	Borrow	O.H.
998+88	526				
1004+88	918				
1016+01	429				
1020+00	727				
1023+00	1100				
1033+	700				
1041+	647				
1044+	88				
1049+	61		636		
1052+	25		651		
1058+13	109		1088		84
1062+35	438		76		
1068+20	765				
1077+30	1208				
1084+26	565				
1091+18	832				
1098+85	1278				
Road Apr	25				
1106+67	568				
1112+80	1444				
1118+00	599				
1124+20	463				
1128+	990				
1132+71					
1133+25	Bridge	Rd App			
1140+26					
Road Approaches					
1141+98	Bridge				
1144+00					
Road Approach					
1152+34	1530				
1158+40	552				
1162+08	321				
1168+50	126				
1169+50	Bridge				
1174+04					
1176+16	Bridge				
1178+75					
1191+00	3785			303	
1198+99	1850				
1205+25	1118				
1210+10	339				
1213+45	789			86	
1219+82	1732	191		317	
1222+62	738			1150	
1227+4	1114			1115	
1237+	2953			2247	
1240+00	1733			2121	2207
1247+00	1529	116		227	
1261+15	715	417		711	
Bridge Approaches	895				
1266+80	1911				
1270+63	1103	774		82	
1276+04	1242				
1285+	2200				
1285+69				3108	
1293+24	5762			1585	
1297+37	847				
1304+15	749				
1309+06	1870				
1318+29	1289				
1323+90	419				
1331+86	846				
1335+15	552				
1348+00	446				
Totals	52493	4126	7697	61427	22280

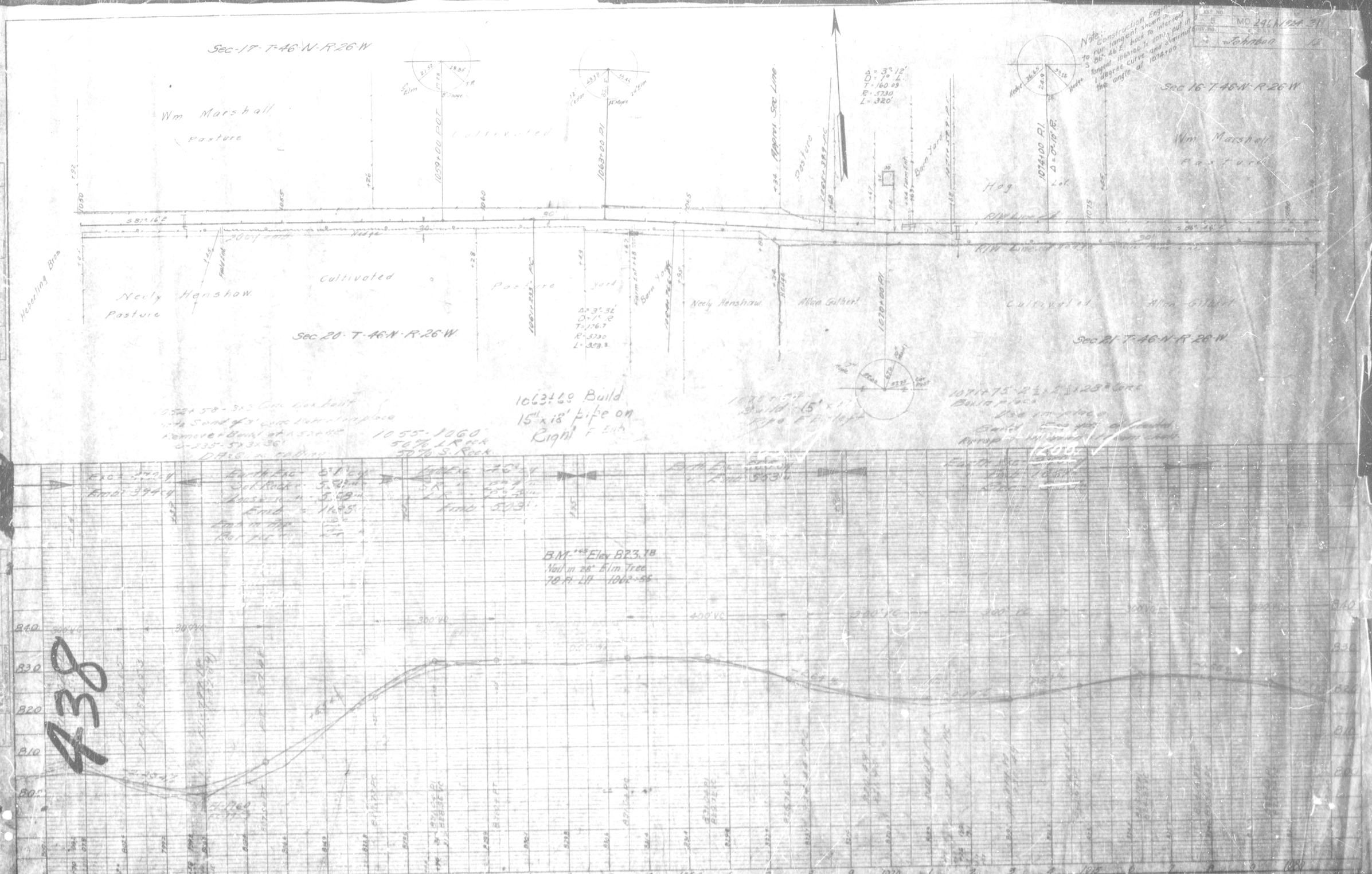


Sec 18-T-46-N-R-26-W
R M Magee (Res)
Cultivated
D E Braden
Cultivated
Sec 17
T-46-N-R-26-W
R M Magee
Cultivated
Johnson
Hedge from 2' to 6' north of fence
Pasture
Pasture
Pasture
Oriville Palmer
Cultivated
Arville Palmer
N.J. Bush
Garden
Stucco House
Sec 19-T-46-N-R-26-W
Sec 20-T-46-N-R-26-W
Approx Sec Line
994+38 - Empty S side ditch into Natural ditch 60' S
998+04 - 4x4'x29.3' Conc Box in place Use in place
1003+81 - 4x4' Conc Box in place 29.3' Long Use in place Riprap ends 10 sq yds
1010+50 Build 15" x 16' pipe on Right
Use in place
Earth Exc 506 cy
Emb 429
BM 441 El 840.84
Nail in Cottonwood Stump
90 ft Rt Sta 996+28
BM 442 El 843.04
Nail in 26' Maple Tree
90 ft Rt Sta 1011+85
300' VC
870
860
840
830
820
990
995
1000
1005
1010
1015
1020

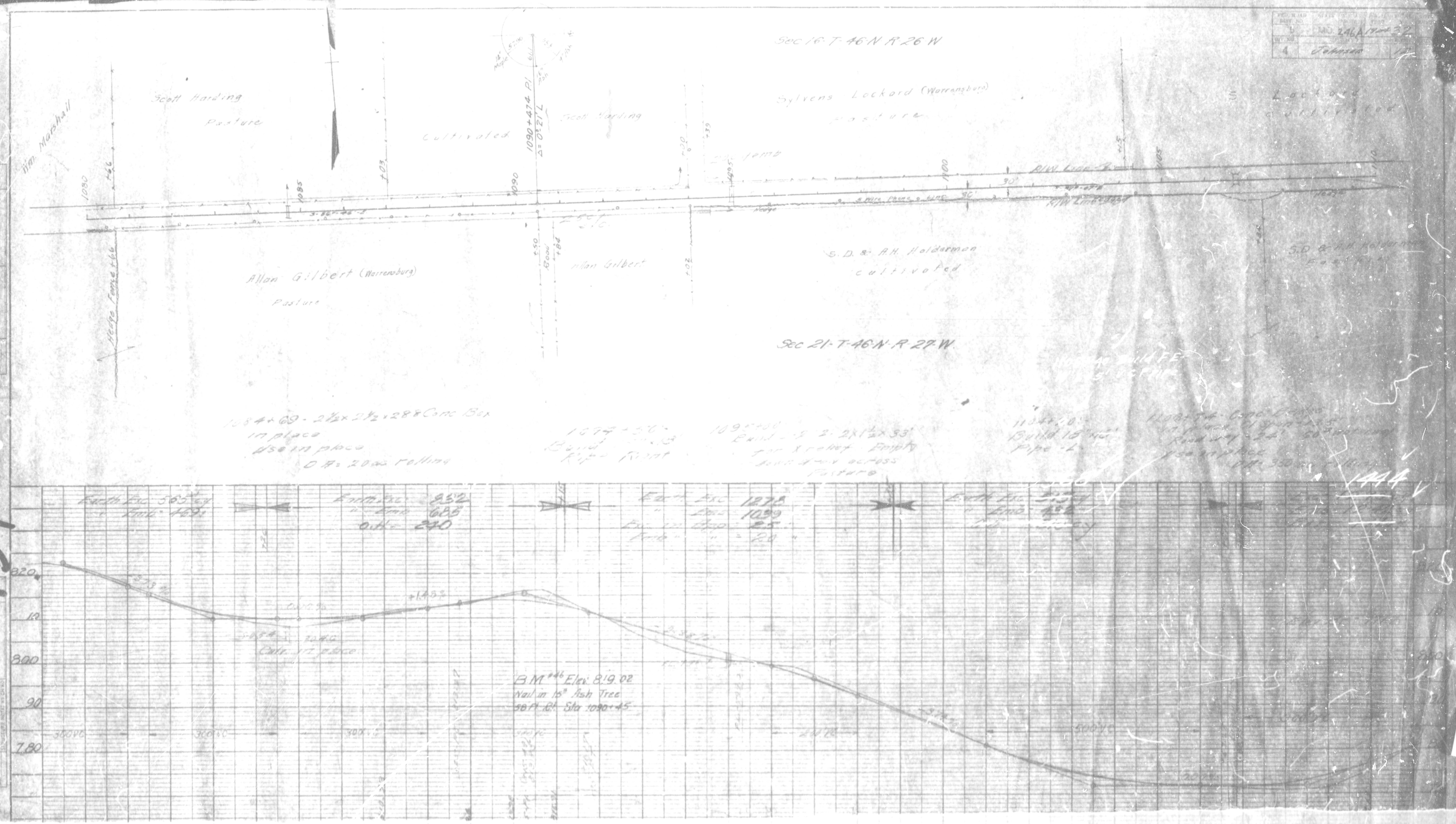
436



Sec 17 T 46 N R 26 W
R. M. Magee Cultivated
Chicken Yard
Public Road
Wm Marshall Cultivated
Emb in app
Pasture
N.J. Bush
N.J. Bush Pasture
Heberling Bros. Pasture
Sec 20 T 46 N R 26 W.
1040+01 - 3x3 Conc Arch in place 27.6' Long Use in place
BM #43 El. 834.41
Nail in 18" Locust Tree 45 Ft Lft 1028+32
BM #44 Elev 795.19
Nail in 36" Cottonwood Tree 200 Ft Right 1041+50
R = 836
C = 81
437

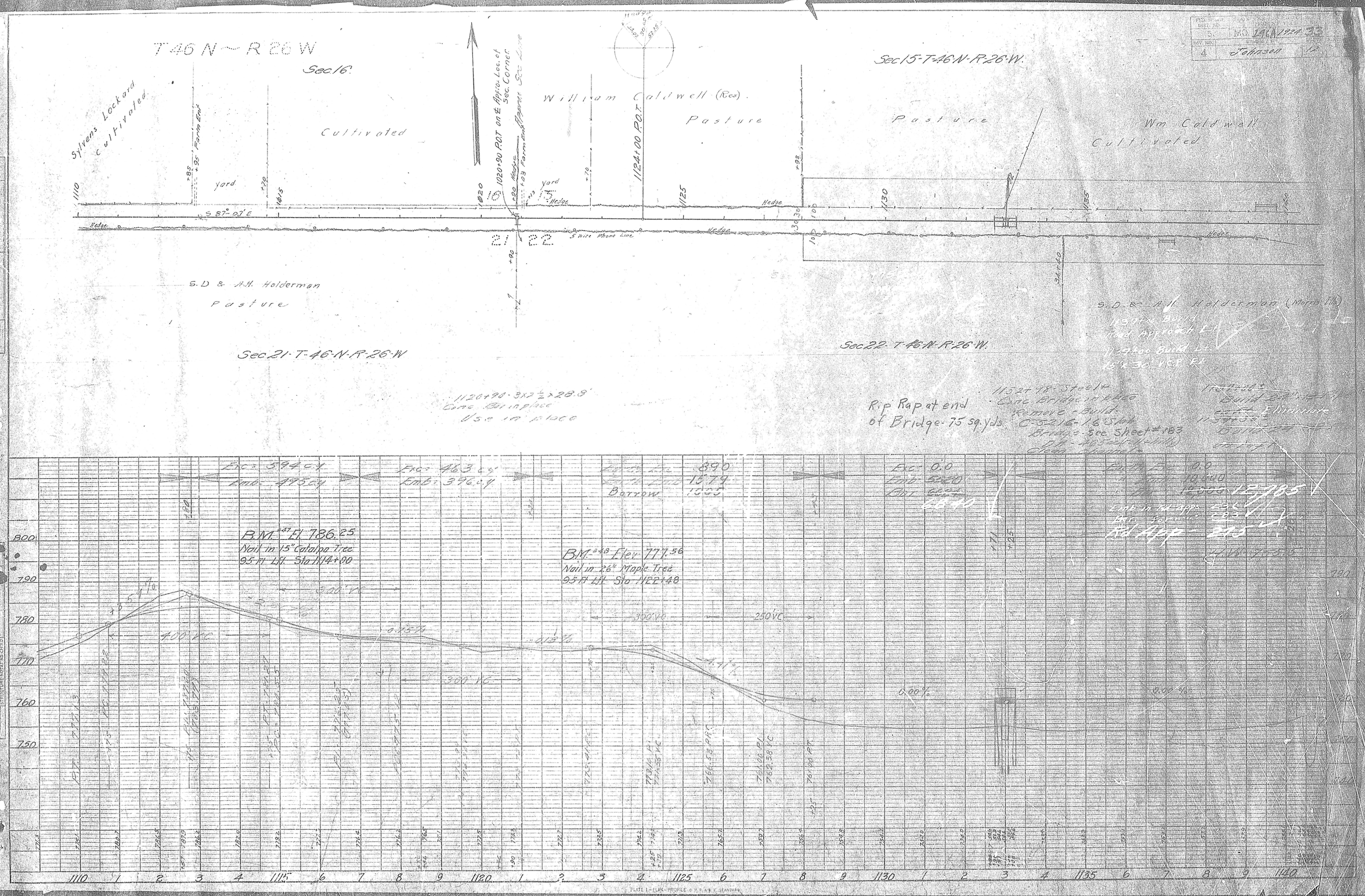


Sec-17-T-46-N-R-26-W
Wm Marshall
Pasture
Cultivated
Neely Henshaw
Pasture
Cultivated
Pasture
Neely Henshaw
Allan Gilbert
Cultivated
Allan Gilbert
Sec 20-T-46-N-R-26-W
Sec 21-T-46-N-R-26-W
Sec 16-T-46-N-R-26-W
Wm Marshall
Pasture
Hog
Lot
Heberling Bros
Approx Sec Line
Barn Yard
Farm Ent
R/W Line
1059+00 POT
1063+00 PI
1070+00 PI
1074+00 PI
Δ = 3°-12'
D = 1° L
T = 160.09
R = 5730
L = 320'
Δ = 3°-32'
D = 1° R
T = 176.7
R = 5730
L = 353.3
1063+60 Build
15" x 18' pipe on
Right F. Ent
1055-1060
50% L Rock
50% S. Rock
B.M. +45 Elev 823.78
Nail in 28" Elm Tree
70 Ft. Lft 1062+55
438



Sec 16-T-46-N-R-26-W
Scott Harding
Pasture
Cultivated
Scott Harding
Sylvens Lockard (Warrensburg)
Pasture
Wm. Marshall
Allan Gilbert (Warrensburg)
Pasture
Allan Gilbert
S.D. & A.H. Holderman
cultivated
Sec 21-T-46-N-R-27-W
1084+69 - 2½x2½x28 Conc Box
in place
Use in place
O.A. = 20 ac rolling
Build Rip Rap
Build 18" Pipe
Earth Exc 565 cy
Emb 469
Earth Exc 832
Emb 685
O.H. 240
Earth Exc 1278
Emb 1039
Earth Exc
Emb
B.M. #46 Elev 819.02
Nail in 15" Ash Tree
58 Ft Rt Sta 1090+45
1444

439



T 46 N ~ R 26 W
Sec 16
Sec 15-T-46-N-R-26-W
Sylvens Lockard
Cultivated
Cultivated
William Caldwell (Res)
Pasture
Pasture
Wm Caldwell
Cultivated
1020+90 P.O.T. on ℄ Appro. Loc. of Sec. Corner
1124+00 P.O.T.
S 87°-07' E
5 Wire Phone Line
21
22
S.D & A.H. Holderman
Pasture
Sec 21-T-46-N-R-26-W
Sec 22-T-46-N-R-26-W
S.D & A.H. Holderman (Morris Ill.)
1120+90-3x2½x28.8'
Conc Bar in place
Use in place
Rip Rap at end of Bridge-75 sq. yds.
1152+98-Steel+
Conc Bridge in place
Remove - Build
C-5216-16' Slab
Bridge - See Sheet #183
Exc: 594 c.y.
Emb: 495 c.y.
Exc: 463 c.y.
Emb: 396 c.y.
Borrow
Exc: 0.0
B.M. #47 El 786.25
Nail in 15" Catalpa Tree
95 Ft Lft. Sta 1114+00
B.M. #48 Elev 777.56
Nail in 26" Maple Tree
95 Ft Lft. Sta 1122+48
400' VC
300' VC
250' VC
0.00%
800
790
780
770
760
750
1110
1115
1120
1125
1130
1135
1140

FED. ROAD DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
5	MO.	246A	1924
JC. NO.	COUNTY		
4	Johnson		

Relocation Line B

1164 - 1171 Heavy Woods & Clearing
Clearing - 3.98 Acres
Grubbing - 3.98 Acres

Sec 15 T 46 N R 26 W

Wm. Caldwell

Pasture

No. 1 Homesteaded

Drainage Ditch

Pasture

Barn Road

Farm Road

2100 ft 2 m.b.

hedge

CLARK EST.
cultivated

Pasture.

S. D. & R. R. HOLDERMAN

100 ft Pub. Road

cultivated.

CLARK EST.

SEC. 22 - T 46 N. R 26 W.

S 87°07'E

Pub. Road

313 Box in place

Forty Creek Rd. fence

Woods

Present Highway

Forest

1168+50 Build overflow bridge See Sheet # 185 Rip Rap at end of bridge - 111 sq yds

Woods

CLARK EST.

1140+60 Steel Box Frame in place
Rdwy - 12'
Clear Span 35'
Water way - 270 sq ft
Remove & Build New Bridge - See Sheet # 184

Rip Rap at end of Bridge - 85 sq. yds

1148+00 Build
24" Vit. Pipe & Mill Ditch
Pub. Road
DA = 6.5 Acres

1161+69 3 x 2½ x 42.3 Conc Box in place (or new) Send 7526 N and 7515 use in place p = 10 ft roadway

1164+50 Build 24" pipe 30' right of Center Line Roadway - 10 ft
-1 ft grade

1168+50 Build 24" pipe
Roadway - 10 ft
-1 ft grade

Earth Exc = 1530 c.y.
Rock Exc = 1973
Emb = 1100 c.y.

Earth Exc = 55% 45%
Rock

Earth Exc = 321 c.y.
Rock = 2469

Earth Exc = 1200 c.y.
Emb = 700
Bor = 500

Average Elev Taken Natural Slope 65' L 1142+00

P.C. 761.00

P.T. 764.98

Bk. No. 30 Elev. 767.28 Cross Recovered at bottom of #2 L. of Station

PROFILE
SURVEYED
PLOTTED
GRADES DRAWN
TIE BOOK
NO.
NOTES BY
CHECKED

PLAN
SURVEYED
PLOTTED
CHECKED
TIE BOOK
NO.
PT. OF WAY CHECKED
DATE
BY

4 1

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
MO	Z91-A(22)	91	
DIV. NO.	COUNTY		
4	Johnson	12	

Relocation - Nov. 1921

PLAN
PROFILE
SURVEYED
PLOTTED
NOTE BOOK
SPECIFICATIONS
NO.
DATE
BY
CHECKED
QUANTITIES CHECKED
QTY. OF MAT'L CHECKED
QUANTITIES CHECKED
IN MASTER'S NOTEBOOK

492

6" Twin Hedge
3" Locust
4" Walnut
7" Sycamore
7" Hedge Brush
Clark Estate
Pasture
Woods
Flanders Estate
Pasture
Flanders Estate
Flanders Estate
Clark Estate
Pasture
POST OAK CREEK DITCH DRAINAGE
1191+48.5 PI
1193+94.6 PI
D = 32° 30' R
D = 10° 00'
R = 572.96'
T = 165.37'
L = 325.10'
E = 23.73'
1182+83.13 PC
1185+08.23 PT
1185+08.23 PC
1187+33.33 PT
1187+33.33 PC
1189+58.43 PT
1189+58.43 PC
1191+83.53 PT
1191+83.53 PC
1194+08.63 PT
1194+08.63 PC
1196+33.73 PT
1196+33.73 PC
1198+58.83 PT
1198+58.83 PC
1200+83.93 PT
1200+83.93 PC
1203+09.03 PT
1203+09.03 PC
1205+34.13 PT
1205+34.13 PC
1207+59.23 PT
1207+59.23 PC
1209+84.33 PT
1209+84.33 PC
1212+09.43 PT
1212+09.43 PC
1214+34.53 PT
1214+34.53 PC
1216+59.63 PT
1216+59.63 PC
1218+84.73 PT
1218+84.73 PC
1221+09.83 PT
1221+09.83 PC
1223+34.93 PT
1223+34.93 PC
1225+60.03 PT
1225+60.03 PC
1227+85.13 PT
1227+85.13 PC
1230+10.23 PT
1230+10.23 PC
1232+35.33 PT
1232+35.33 PC
1234+60.43 PT
1234+60.43 PC
1236+85.53 PT
1236+85.53 PC
1239+10.63 PT
1239+10.63 PC
1241+35.73 PT
1241+35.73 PC
1243+60.83 PT
1243+60.83 PC
1245+85.93 PT
1245+85.93 PC
1248+11.03 PT
1248+11.03 PC
1250+36.13 PT
1250+36.13 PC
1252+61.23 PT
1252+61.23 PC
1254+86.33 PT
1254+86.33 PC
1257+11.43 PT
1257+11.43 PC
1259+36.53 PT
1259+36.53 PC
1261+61.63 PT
1261+61.63 PC
1263+86.73 PT
1263+86.73 PC
1266+11.83 PT
1266+11.83 PC
1268+36.93 PT
1268+36.93 PC
1270+62.03 PT
1270+62.03 PC
1272+87.13 PT
1272+87.13 PC
1275+12.23 PT
1275+12.23 PC
1277+37.33 PT
1277+37.33 PC
1279+62.43 PT
1279+62.43 PC
1281+87.53 PT
1281+87.53 PC
1284+12.63 PT
1284+12.63 PC
1286+37.73 PT
1286+37.73 PC
1288+62.83 PT
1288+62.83 PC
1290+87.93 PT
1290+87.93 PC
1293+13.03 PT
1293+13.03 PC
1295+38.13 PT
1295+38.13 PC
1297+63.23 PT
1297+63.23 PC
1299+88.33 PT
1299+88.33 PC
1302+13.43 PT
1302+13.43 PC
1304+38.53 PT
1304+38.53 PC
1306+63.63 PT
1306+63.63 PC
1308+88.73 PT
1308+88.73 PC
1311+13.83 PT
1311+13.83 PC
1313+38.93 PT
1313+38.93 PC
1315+64.03 PT
1315+64.03 PC
1317+89.13 PT
1317+89.13 PC
1320+14.23 PT
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1331+39.73 PT
1331+39.73 PC
1333+64.83 PT
1333+64.83 PC
1335+89.93 PT
1335+89.93 PC
1338+15.03 PT
1338+15.03 PC
1340+40.13 PT
1340+40.13 PC
1342+65.23 PT
1342+65.23 PC
1344+90.33 PT
1344+90.33 PC
1347+15.43 PT
1347+15.43 PC
1349+40.53 PT
1349+40.53 PC
1351+65.63 PT
1351+65.63 PC
1353+90.73 PT
1353+90.73 PC
1356+15.83 PT
1356+15.83 PC
1358+40.93 PT
1358+40.93 PC
1360+66.03 PT
1360+66.03 PC
1362+91.13 PT
1362+91.13 PC
1365+16.23 PT
1365+16.23 PC
1367+41.33 PT
1367+41.33 PC
1369+66.43 PT
1369+66.43 PC
1371+91.53 PT
1371+91.53 PC
1374+16.63 PT
1374+16.63 PC
1376+41.73 PT
1376+41.73 PC
1378+66.83 PT
1378+66.83 PC
1380+91.93 PT
1380+91.93 PC
1383+17.03 PT
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1385+42.13 PT
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1387+67.23 PT
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1392+17.43 PT
1392+17.43 PC
1394+42.53 PT
1394+42.53 PC
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1396+67.63 PC
1398+92.73 PT
1398+92.73 PC
1401+17.83 PT
1401+17.83 PC
1403+42.93 PT
1403+42.93 PC
1405+68.03 PT
1405+68.03 PC
1407+93.13 PT
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1410+18.23 PT
1410+18.23 PC
1412+43.33 PT
1412+43.33 PC
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1432+69.23 PC
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1434+94.33 PC
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1437+19.43 PC
1439+44.53 PT
1439+44.53 PC
1441+69.63 PT
1441+69.63 PC
1443+94.73 PT
1443+94.73 PC
1446+19.83 PT
1446+19.83 PC
1448+44.93 PT
1448+44.93 PC
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1450+70.03 PC
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1452+95.13 PC
1455+20.23 PT
1455+20.23 PC
1457+45.33 PT
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1461+95.53 PC
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1464+20.63 PC
1466+45.73 PT
1466+45.73 PC
1468+70.83 PT
1468+70.83 PC
1470+95.93 PT
1470+95.93 PC
1473+21.03 PT
1473+21.03 PC
1475+46.13 PT
1475+46.13 PC
1477+71.23 PT
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1479+96.33 PT
1479+96.33 PC
1482+21.43 PT
1482+21.43 PC
1484+46.53 PT
1484+46.53 PC
1486+71.63 PT
1486+71.63 PC
1488+96.73 PT
1488+96.73 PC
1491+21.83 PT
1491+21.83 PC
1493+46.93 PT
1493+46.93 PC
1495+72.03 PT
1495+72.03 PC
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1497+97.13 PC
1500+22.23 PT
1500+22.23 PC
1502+47.33 PT
1502+47.33 PC
1504+72.43 PT
1504+72.43 PC
1506+97.53 PT
1506+97.53 PC
1509+22.63 PT
1509+22.63 PC
1511+47.73 PT
1511+47.73 PC
1513+72.83 PT
1513+72.83 PC
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1515+97.93 PC
1518+23.03 PT
1518+23.03 PC
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1527+23.43 PC
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1529+48.53 PC
1531+73.63 PT
1531+73.63 PC
1533+98.73 PT
1533+98.73 PC
1536+23.83 PT
1536+23.83 PC
1538+48.93 PT
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2573+94.93 PC
2576+20.03 PT
2576+20.03 PC
2578+45.13 PT
2578+45.13 PC
2580+70.23 PT
2580+70.23 PC
2582+95.33 PT
2582+95.33 PC
2585+20.43 PT
2585+20.43 PC
2587+45.53 PT
2587+45.53 PC
2589+70.63 PT
2589+70.63 PC
2591+95.73 PT
2591+95.73 PC
2594+20.83 PT
2594+20.83 PC
2596+45.93 PT
2596+45.93 PC
2598+71.03 PT
2598+71.03 PC
2600+96.13 PT
2600+96.13 PC
2603+21.23 PT
2603+21.23 PC
2605+46.33 PT
2605+46.33 PC
2607+71.43 PT
2607+71.43 PC
2609+96.53 PT
2609+96.53 PC
2612+21.63 PT
2612+21.63 PC
2614+46.73 PT
2614+46.73 PC
2616+71.83 PT
2616+71.83 PC
2618+96.93 PT
2618+96.93 PC
2621+22.03 PT
2621+22.03 PC
2623+47.13 PT
2623+47.13 PC
2625+72.23 PT
2625+72.23 PC
2627+97.33 PT
2627+97.33 PC
2630+22.43 PT
2630+22.43 PC
2632+47.53 PT
2632+47.53 PC
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2636+97.73 PT
2636+97.73 PC
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2639+22.83 PC
2641+47.93 PT
2641+47.93 PC
2643+73.03 PT
2643+73.03 PC
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2645+98.13 PC
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2648+23.23 PC
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2650+48.33 PC
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2652+73.43 PC
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2654+98.53 PC
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2657+23.63 PC
2659+48.73 PT
2659+48.73 PC
2661+73.83 PT
2661+73.83 PC
2663+98.93 PT
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2666+24.03 PC
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2670+74.23 PT
2670+74.23 PC
2672+99.33 PT
2672+99.33 PC
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2677+49.53 PC
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2679+74.63 PC
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2681+99.73 PC
2684+24.83 PT
2684+24.83 PC
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2688+75.03 PT
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2691+00.13 PT
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2695+50.33 PT
2695+50.33 PC
2697+75.43 PT
2697+75.43 PC
2700+00.53 PT
2700+00.53 PC
2702+25.63 PT
2702+25.63 PC
2704+50.73 PT
2704+50.73 PC
2706+75.83 PT
2706+75.83 PC
2709+00.93 PT
2709+00.93 PC
2711+26.03 PT
2711+26.03 PC
2713+51.13 PT
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2715+76.23 PC
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2828+31.23 PT
2828+31.23 PC
2830+56.33 PT
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2837+31.63 PT
2837+31.63 PC
2839+56.73 PT
2839+56.73 PC
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2904+84.63 PT
2904+84.63 PC
2907+09.73 PT
2907+09.73 PC
2909+34.83 PT
2909+34.83 PC
2911+59.93 PT
2911+59.93 PC
2913+85.03 PT
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2927+35.63 PC
2929+60.73 PT
2929+60.73 PC
2931+85.83 PT
2931+85.83 PC
2934+10.93 PT
2934+10.93 PC
2936+36.03

DIST. NO.	PROJECT NO.	YEAR	SHEET NO.
5	MO. 2961	1944	36
DIV. NO.	COUNTY		
4	Johnson		

Relocation - Proj. 1944

N

W E

S

J.R. Colburn

Brush

Cultivated

Pasture

W.F. Johnston

3" Elm

Pipe Line

Flanders Estate

Approx. ¼ ¼ Cor.

Cemetery

Shed

Well

Office

Wm Davis

M.A. Mellenbruch

¼ - ¼ Sec. Cor. Sec. 29

T. 46 N. R. 26 W. Sec. 29

1205+23.6 P.C.

Δ = 51° 22'-1
D = 10° 12'-5.9'
T.R. = 5'-13.7
L.R. = 5'-13.7

1210+93.5 P.T.

1212+65.2 P.C.

1213+65 P.O.T.

1217+10 P.O.T.

No Flues

1220+06 C-232
2'×1½'×62' Culv.
Built - Extend Length to 68' (Ext Left 2.5'+ Rt. 3.5')
D.A. = 4 sq. mi. rolling

1220+44 50% on, 50% S.R.

1230+

Flood Elev. 852

Flood Elev. 853

Flood Elev. 854

Flood Elev. 855

Flood Elev. 856

Flood Elev. 857

Flood Elev. 858

Flood Elev. 859

Flood Elev. 860

Flood Elev. 861

Flood Elev. 862

Flood Elev. 863

Flood Elev. 864

Flood Elev.

FED. ROAD DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5		MO 246A	1929	37	
IV	N.A.	COUNTY		ROUTE SEC. NO.	
		& Johnson		12	

R26W T46N
NW¼

24 24

Spring House

Racing Nags
Sandstone

Electric Power Line

Warren St

Bridge 27 Left
Wooden Bridge on piles
12' Long - 9 Mile Road

To be moved to Left

W. C Holt

S 87° 43' E

Pasture

Proposed Green Channel

Cultivated

Cultivated

Dan B Olley

M.S. Simms

W. Murray

M.A. Mellenbruch

24 24

Pasture

Nail in Telephone

Nail in Telephone

Nail in Stump

Sta 1233+39

Sta 1242+05

1/4 Section

Part 45.19 Ac

Part 62.78 Ac

Cor House

Cor House

3° Tree

Sta 1243+56 Alt. 0°46' to Washington St

Sta 1243+56 Alt. 0°46' to Washington St

Sta 1243+56 Alt. 0°46' to Washington St

PROJECT NO.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
DIST. NO. 5	MO.		1922	38	
DIV. NO. 4	COUNTY Johnson			ROUTE 13	SEC. NO.

Re-Location - Dec. - 1924

Line 'C'

Sec. 19-T.46-N.-R.26-W.

Sec. 24-T.46-N.-R.26-W.

PLAN: PLOTTED, TRACED, ALIGNMENT CHECKED, RE-CHECKED, NOTE BOOK, NO.

W. M. Lowe

Line of Relocation 'B'

W. Murphy

J. W. Filer

Centerline

Reverse to Centers

Old R.R. R.O.W.

Spring 20' Left

Brushy + 3 Scattered Trees

2" Oak (dbh) 11 Ft. E.

W. M. Lowe Pasture

C. Krieth

E 1113.

Borrow Easement Width = 120' D = 2°

Old Time Mules 30 Ft. E.

Walla Cor. Stone 22 L. 1 Ft. E.

Old Iron Take

C. Knutt

Pasture

Packing House Cr.

E 1115 of Packing Plant

Property Lines

Sec. Line

Δ = 10°20' L
D = 5°
T = 103.6'
L = 206.7'
R = 1146.3'

Δ = 17°20' L
D = 7°
T = 124.5'
L = 248.2'
R = 819.0'

Δ = 5°35' R
D = 3°
T = 98.2'
L = 191.2'
R = 1910.1

Δ = 5°30' R
D = 3°
T = 91.5'
L = 183.3'
R = 1910.1

1.266+15 - Build C-232 - 2x11/2x61' D.F. 2 1/2 gc
Divert Channel of 1.267+07 to 1.266+15 rm rd. +032 excav
Drain Spring 6" Tile 1/4 emb.

Earth Exc = 1220 cy
Solid Rock Exc = 99 cy
Emb = 1670 cy

1.270+00 - Build C-232 - 2x11/2x43'

1.270+82 - Build C-232 - 8x12x35'

1.286+26 - Build C-236 - 6x4x6'0"

Exc = 3200 cy
Emb = 1774 cy

Exc = 1471
Exc in Chan. = 1150
Emb = 1222

Exc = 1242
Emb = 1080

Exc = 2477
Emb = 1914
O.H. = 500

Earth Exc = 1576
Solid Rock = 1838
Emb = 6361
O.H. = 2300
Ovrbrk = 2100

300' V.C.

200' V.C.

+0.24%

6.0%

Solid Rock

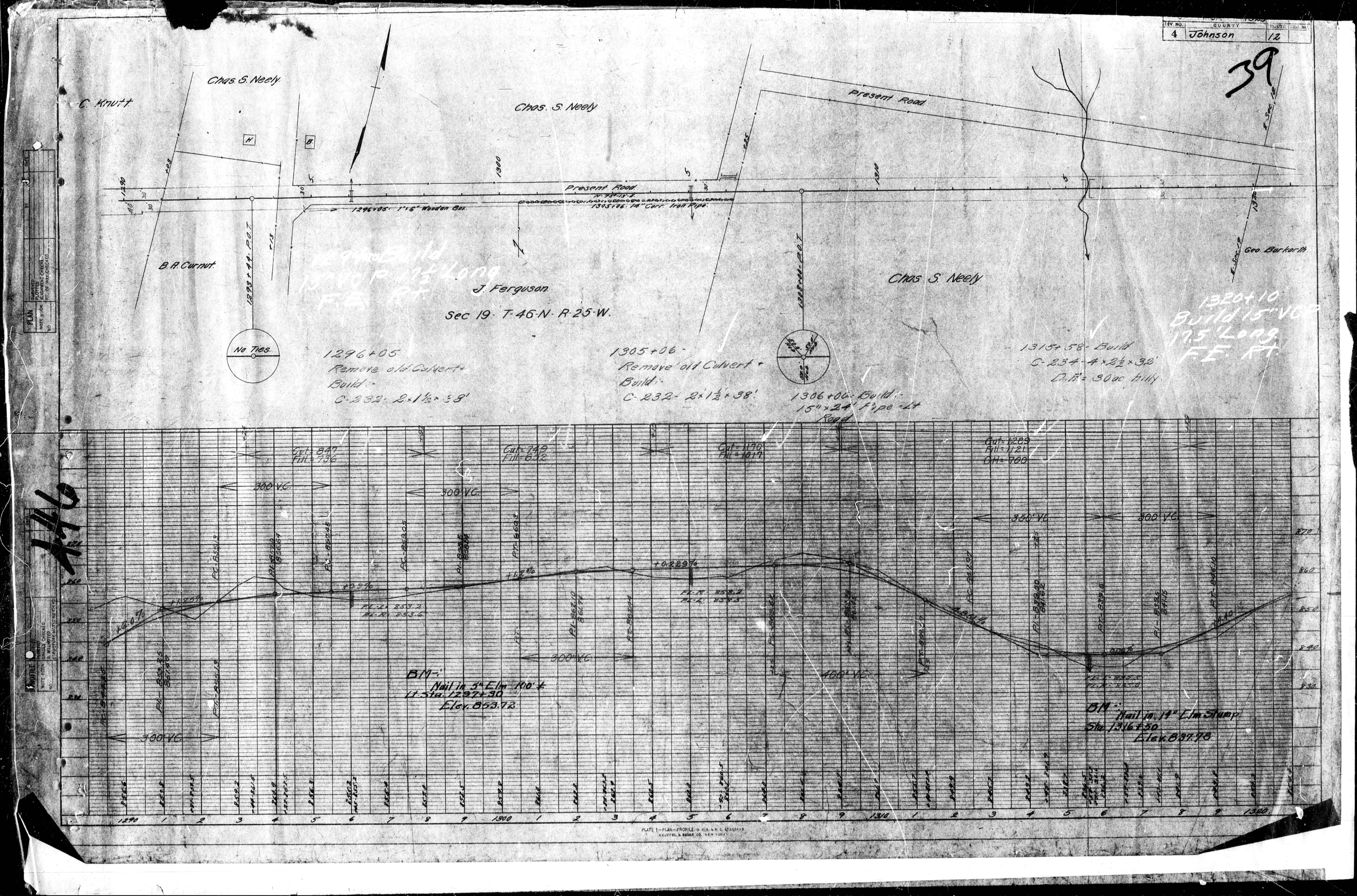
Solid Rock

B.M.: Nail in 22" Oak 62' Lft. Elev. 1170.79

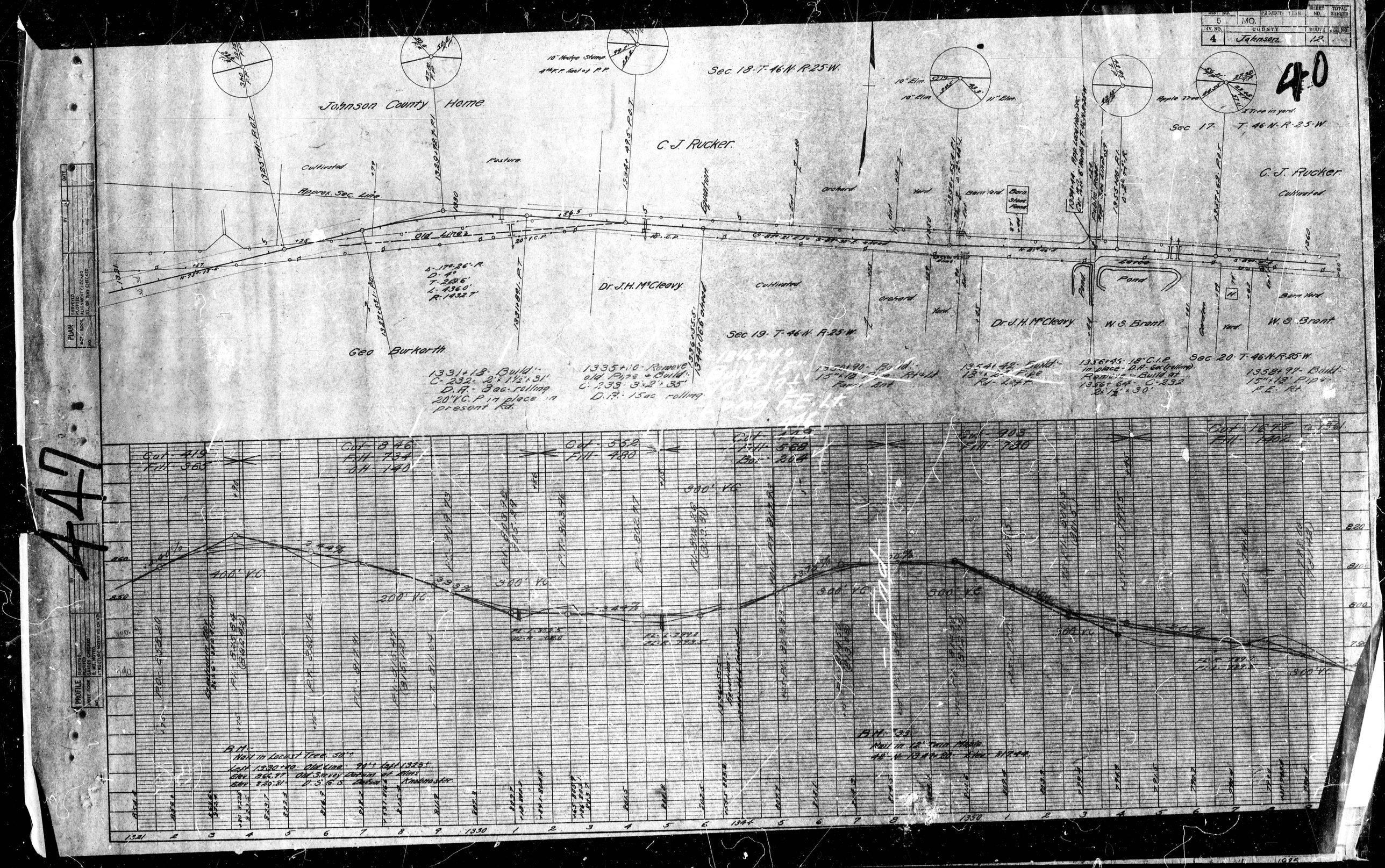
B.M.: Nail in 26" Sycamore 100' Rt. Elev. 1202.50

Fnd. Pt. does not agree with Sight dist. Fr. Transit Point to Point Ahead by 1.00 Ft.

PLATE I—PLAN—PROFILE C. P. R. & B. C. STANDARD
KEUFFEL & ESSER CO. NEW YORK



DIV. NO. 4
COUNTY Johnson
ROUTE 12
39
Chas. S. Neely
C. Knutt
Chas. S. Neely
Present Road
Present Road
1296+05 - 1'x6" Wooden Box
1305+06 - 14" Corr. Iron Pipe
B. A. Curnut
J. Ferguson
Sec 19 - T-46-N - R-25-W.
Chas. S. Neely
Geo. Burkarth
1320+10
Build 15" VCP
17.5' Long
F.E. Rt.
No Ties.
1296+05
Remove old Culvert +
Build:-
C-232 - 2x1½x38'
1305+06 -
Remove old Culvert +
Build:-
C-232 - 2x1½x38'
1306+06 - Build:-
15"x24' Pipe - Lt
Road
1315+58 - Build
C-234 - 4x2½x32'
D.A. = 30ac hilly
Cut = 847
Fill = 736
Cut = 749
Fill = 632
Cut = 1170
Fill = 1017
Cut = 1289
Fill = 1121
OH = 700
300' V.C.
300' V.C.
350' V.C.
300' V.C.
300' V.C.
400' V.C.
300' V.C.
BM:-
Nail in 5" Elm 100' ±
Lt. Sta. 1297+30
Elev. 853.72
BM:-
Nail in 14" Elm Stump
Sta. 1316+50
Elev. 837.78
PLATE 1 - PLAN - PROFILE



DIST. NO. 5
MO.
PROJECT
YEAR
SHEET NO.
TOTAL SHEETS
RV. NO. 4
COUNTY Johnson
ROUTE 12
40
Johnson County Home
Sec. 18-T-46-N-R-25-W.
C. J. Rucker
Sec 17- T-46-N-R-25-W.
C. J. Rucker
Cultivated
Pasture
Approx. Sec. Line
Old Line
Equation
Orchard
Yard
Barn Yard
Barn Stone Found
Levee
Pond
Dr. J. H. McCleavy
Dr. J. H. McCleavy
W. S. Brant
W. S. Brant
Sec 19- T-46-N-R-25-W.
Sec 20- T-46-N-R-25-W.
Geo. Burkarth
Δ-17°-26'-R.
D-4°
T-219.6'
L-436.0'
R-1432.7'
1331+18- Build:- C-232- 2'x1½'x31' D.A.- 8ac-rolling 20" V.C.P. in place in present Rd.
1335+10- Remove old Pipe & Build:- C-233- 3'x2'x35' D.A.- 15ac rolling
1354+42- Build:- 18" x 2' Pipe Rd.- Left
1356+45- 18" C.I.P. in place - D.A.- 6ac (rolling) Remove - Build at 1356+64- C-232 2'x1½'x30'
1358+97- Build:- 15" x 18' Pipe F.E.- Rt.
Cut- 419 Fill- 365
Cut- 846 Fill- 734 OH- 140
Cut- 552 Fill- 480
Cut- 903 Fill- 730
Cut- 1675 Fill- 1402
400' VC
200' VC
300' VC
300' VC
300' VC
300' VC
300' VC
B.M.- Nail in Locust Tree 50'± Left 1330+00- Old Line 90'± Left 1323± Elev 866.97- Old Survey Datum at Elms Elev 825.81- D.S.G.S. Datum Knobmaster
B.M.- 33 Nail in 12" Twin Maple 42'-N 1349+20- Elev 817.44
PLAN
PROFILE

FED. ROAD DIST. NO.	STATE	FED. AID. PROJECT	FISCAL YEAR	SHEET NO.
3	MO.	246A	1924	1
DIV. NO.	COUNTY		ROUTE	
4	Johnson		12	

MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD
FEDERAL AID PROJECT
JOHNSON COUNTY

SCALES
PLAN 1 IN. = 100 FT
PROFILE, HOR. 1 IN = 100 FT. VERT. 1 IN. = 10 FT
CROSS-SECTIONS 1 IN = 5 FT

INDEX OF SHEETS

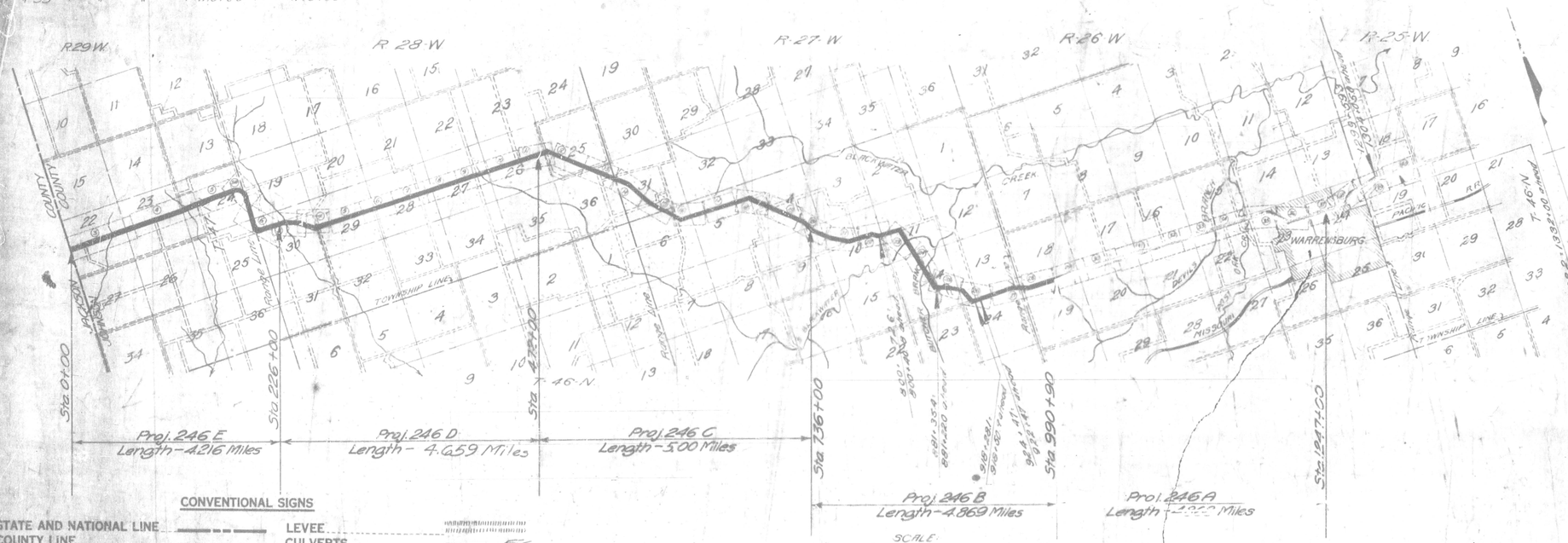
SHEET NO. 1	TITLE PAGE				
" 2	TYPICAL CROSS-SECTION OF IMPROVEMENT				
" 3	PLAN AND PROFILE STA.	210+00	TO STA.	240+00
" 4	" " "	240+00	" "	270+00
" 5	" " "	270+00	" "	300+00
" 6	" " "	300+00	" "	330+00
" 7	" " "	330+00	" "	360+00
" 8	" " "	360+00	" "	390+00
" 9	" " "	390+00	" "	420+00
" 10	" " "	420+00	" "	450+00
" 11	" " "	450+00	" "	480+00
" 12	" " "	480+00	" "	510+00
" 13	" " "	510+00	" "	540+00
" 14	" " "	540+00	" "	570+00
" 15	" " "	570+00	" "	600+00
" 16	" " "	600+00	" "	630+00
" 17	" " "	630+00	" "	660+00
" 18	" " "	660+00	" "	690+00
" 19	" " "	690+00	" "	720+00
" 20	" " "	720+00	" "	750+00
" 21	" " "	750+00	" "	780+00
" 22	" " "	780+00	" "	810+00
" 23	" " "	810+00	" "	840+00
" 24	" " "	840+00	" "	870+00
" 25	" " "	870+00	" "	900+00
" 26	" " "	900+00	" "	930+00
" 27	" " "	930+00	" "	960+00
" 28	" " "	960+00	" "	990+00
" 29	" " "	990+00	" "	1020+00
" 30	" " "	1020+00	" "	1050+00
" 31	" " "	1050+00	" "	1080+00
" 32	" " "	1080+00	" "	1110+00
" 33	" " "	1110+00	" "	1140+00

INDEX OF SHEETS CONTINUED

SHEET NO. 34	PLAN AND PROFILE STA.	1140+00	TO STA.	1170+06
" 35	" " "	1170+00	" "	1200+80
" 36	" " "	1200+00	" "	1230+00
" 37	" " "	1230+00	" "	1260+00
" 38	" " "	1260+00	" "	1290+00
" 39	" " "	1290+00	" "	1320+00
" 40	" " "	1320+00	" "	1331+682
" 41 —	CROSS SECTIONS			

INDEX OF SHEETS ON PROJECT 246 E

SHEET NO. 3	PLAN AND PROFILE STA.	0+00	TO STA.	60+00
" 4	" " "	60+00	" "	120+00
" 5	" " "	120+00	" "	150+00
" 5A	" " "	150+00	" "	180+00
" 6	" " "	180+00	" "	226+00
" 7 —	CROSS SECTIONS			



CONVENTIONAL SIGNS

STATE AND NATIONAL LINE
COUNTY LINE
CITY, VILLAGE OR BOROUGH
TOWNSHIP LINE
SECTION LINE
GRANT LINE
FENCE LINE
GUARD RAIL
UNFENCED PROPERTY
RIGHT OF WAY LINE
TRAVELED WAY
RAILROADS
RETAINING WALL
BASE OR SURVEY LINE

LEVEE
CULVERTS
DROP INLET
TROLLEY POLE
POWER POLE
TELEPHONE OR TELEGRAPH POLE
MARSH
HEDGE
GROUND ELEVATION — Datum Line
GRADE ELEVATION — Grade Line
SURFACE LINE
GRADE LINE

EXCEPTIONS

EQUATIONS

800+726 = 800+40.6 ahead
831+35.4 = 831+22.0
918+28.1 = 918+50.9
924+47.0 = 922+47.0
1299+59.3 = 1304+05.0
1331+68.2 = 1332+00
1213+36.7 = 1212+62.9

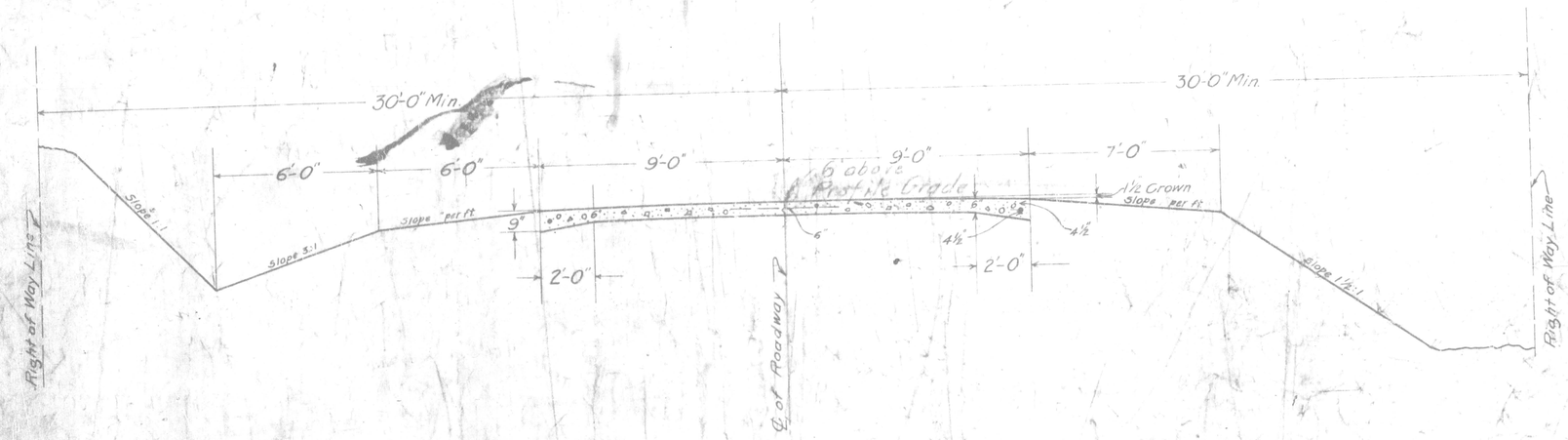
LENGTH OF PROJECT.

APPARENT LENGTH ... FT = ... MILES
CROSS LENGTH
NET LENGTH

SUBMITTED
[redacted]
CHIEF ENGINEER MO. STATE HIGHWAY COMM.
RECOMMENDED FOR APPROVAL
[redacted]
DISTRICT ENGINEER - DISTRICT NO.
RECOMMENDED FOR APPROVAL
[redacted]
CHIEF ENGINEER BUREAU PUBLIC
APPROVED
[redacted]
DIRECTOR BUREAU OF PUBLIC ROADS

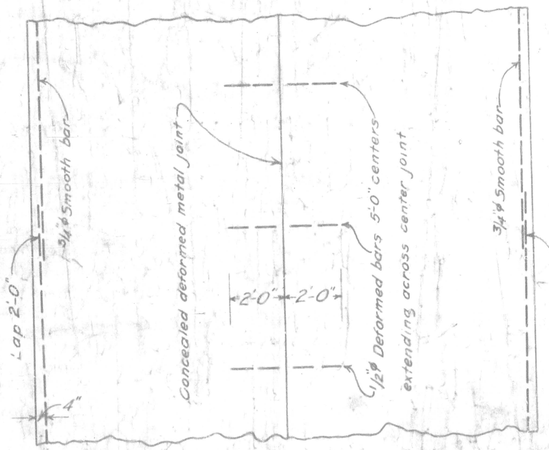
248

DIST. NO.		FEDERAL YEAR	
5	MO.	1924	2
DIV. NO.	COUNTY	ROUTE	SEC. NO.
6		6	28

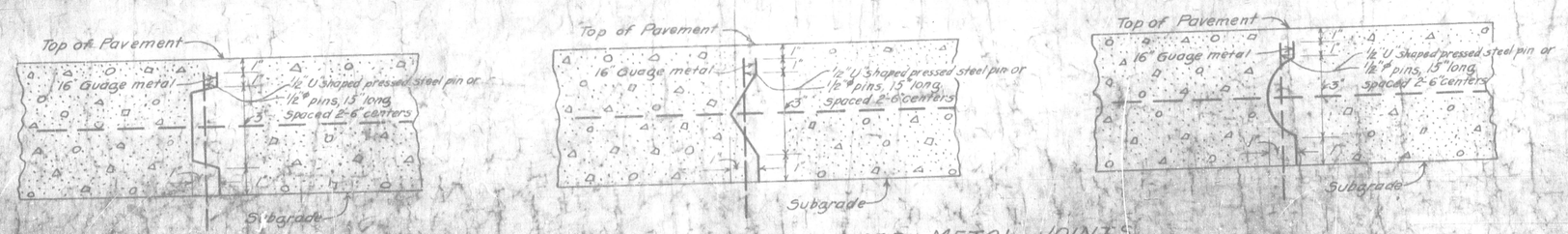


TYPICAL CROSS SECTION ON TANGENTS

See Plan and Cross Sections for Superelevation on curves



PLAN



DETAILS OF CONCEALED DEFORMED METAL JOINTS

MISSOURI STATE HIGHWAY COMMISSION

ESTIMATE SHEET

County of Johnson

Length 6.60 Miles

FED. ROAD DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	246A		24	
DIV. NO.	COUNTY			ROUTE	SEC. NO.
4	Johnson			12	

FINAL PLANS

Description of paving 18' Concrete

Prepared by G. B. Major

Date August 17-1926

Name of road Kansas City - St. Louis

Excavation

Sta. to Sta. 990+90 to 1247+00

	Earth	S.R.
990+90		
995+00	123	
1000+00	138	
[illegible]	352	
[illegible]	190	
[illegible]	191	
[illegible]	431	
[illegible]	159	
1040+00	180	
1045+00	256	
1050+00	336	
1055+00	[illegible]	
1057+00	265	
1063+50	[illegible]	
1066+00	154	
1073+00	132	
1076+00	109	
1083+00	146	
1089+00	[illegible]	
1095+00	[illegible]	
1100+00	[illegible]	
1106+00	[illegible]	
1112+00	[illegible]	
1116+00	[illegible]	
1120+50	[illegible]	
1126+50	[illegible]	
1130+00	[illegible]	
1132+20	[illegible]	
1133+25	[illegible]	
1140+26	[illegible]	
1141+09	[illegible]	
1149+00	[illegible]	
1154+00	[illegible]	
1159+00	[illegible]	
1164+00	110	
1168+48	215	
1169+54	Bridge	
1173+99	512	
1176+10	Bridge	
1180+00	261	
1181+50	210	
1191+00	66	
1192+00	14	
1193+00	[illegible]	
1194+00	[illegible]	
1195+00	110	
1196+00	120	
1197+00	163	
1198+00	163	
1199+00	[illegible]	
1200+00	[illegible]	
1240+50	[illegible]	
1245+00	114	
1247+00	[illegible]	
	3390	132

Excavation

246A - Extention

Sta. to Sta. 1247+00 1348+00

	Earth	S. Rock
1247+00		
1250+50	165	
1256+00	330	
1258+50	59	
1263+50	344	
1268+00	347	
1271+50	128	
1276+00	76	
1280+50	115	
1285+50	227	
1289+50	322	132
1296+00	102	
1300+00	134	
1307+50	136	
1312+50	146	
1317+50	118	
1322+00	87	
1327+50	138	
1331+50	94	
1336+00	156	
1348+00	166	
	3390	132

246A Pavement

End of Pavement Sta. 1247+00

Beg. of Pavement Sta. 990+90

Gross Length [illegible] 0 Lin. Ft.

Exceptions for Bridges

Station	to Station	
1132+70	1133+25	-54.5
1140+26	1141+09	-83.0
1168+48	1169+54	-106.0
1173+99	1176+10	-211.7
		-455.2

Exceptions for Approach Slabs 80

Equations

1213+56 = 1212+62 = +93.8

Net Length 25,168.6 × 18/9 = 50337.2 Sq. Yds.

Bridge Approach Slab

		Cl. "X" Conc.	Rein. Steel
1132+61	1132+71	6.7 Cu. Yds.	630 Lbs.
1133+25	1133+35	6.7 " "	630 "
1140+16	1140+26	6.7 Cu. Yds.	630 Lbs.
1141+09	1141+19	6.7 " "	630 "
1168+38	1168+48	6.7 Cu. Yds.	630 Lbs.
1169+54	1169+64	6.7 " "	630 "
1173+89	1173+99	6.7 Cu. Yds.	630 Lbs.
1176+10	1176+20	6.7 " "	630 "
	Total	53.6 " "	5040 "

Reinforcing Steel for Bridge Approaches

			Lbs.
1132+31	1132+61	21 Pcs. 3/4" x 30'	946
1133+35	1133+65	21 " " x 30'	946
1139+86	1140+16	21 " " x 30'	946
1141+19	1141+49	21 " " x 30'	946
1168+08	1168+38	21 " " x 30'	946
1169+64	1169+94	21 " " x 30'	946
1173+59	1173+89	21 " " x 30'	946
1176+20	1176+50	21 " " x 30'	946
		Total	7563

Pavement

246A Extention

End of Pavement - Sta 1348+00

Beg. of Pavement - Sta 1247+00

Gross Length 10100

Equations:

1336+55 = 1344+06 = -751.6

Net Length = 9348.8

9348.9 × 18/9 = 18697.8 sq. yds.

Route 12 and 13 Intersection = 417.5 " "

Total = 19115.3 " "

Retaining Wall Sta 1250+58

Excavation	292.6	cu. yds.
Class "B" Concrete	74.6	cu. yds.
Reinf. Steel	5103	lbs.

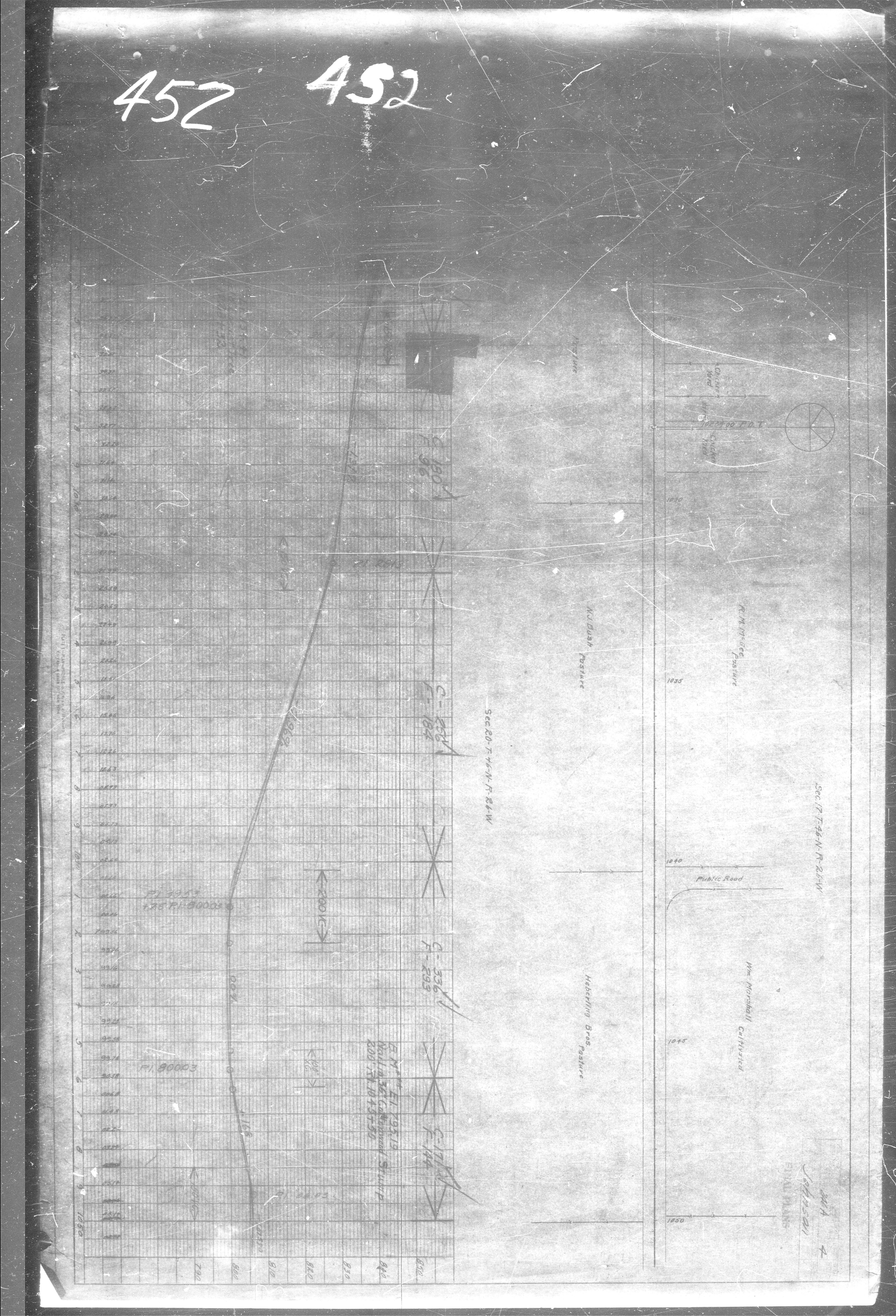
Summary

Item	Description	Unit	Quantity
7A	Earth Roadway Excavation	cu. yds.	11897
7C	Solid Rock Excavation	" "	168
20	Portland Cement Conc. Pavement	sq. yds.	50337.2
20	Extention " " "	" "	19115.3
24A	Barricades	8	8
24B	Detour Signs	10	10
24C	Relocateing Barricades	8	8
24D	" " Detour Signs	9	9
59X	Class "X" Conc. Bridge Approaches	cu. yds.	53.6
59B	" "B" "	cu. yds.	74.6
60	Reinforceing for Bridge "	lbs.	5040
60	" " " Slab	lbs.	7568
60	" " " Cl. "B" Conc.	lbs.	5103
	Excavation for Retaining Wall	cu. yds.	292.6

451 451


Orville Palmer
Pasture
R.M. Magee
Sec 18 T46N R26W
Sec 17 T46N R26W
Sec 20 T46N R26W
N.J. Bubl
Pasture
Aperox Sec Line
1011+50 P.O.T.
1013+27 P.O.T. on ℄ Approx. of Sec. Cor
18
17
20
1005
1010
1015
1020
Pl 42.93
Pl 42.93
Pl 42.93

452 452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Sec 17-T 46-N-R 24-W
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R.M. Nyce Pasture
Hebenthing Bros. Pasture
Wm. Marshall Cultivated
Public Road
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F-96
C-332
F-182
C-336
F-293
C-179
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453

Sec 17 T 46N R26W

Sec 16 T 46N R26W

Sec 20 T 46N R26W

Sec 21 T 46N R26W

Johnson

Wm Marshall

Pasture

Hog Lot

Reference Bearings

Δ = 3° 12'
D = 1° L
T = 1609
R = 5730
L = 3200

Δ = 3° 32'
D = 1° R
T = 1767
R = 5730
L = 353'

Δ = 0° 16'

Arbor Sec. Line

Barn Yard

Yard

Pasture

Neely Henshaw

Allan Gilbert

17 16

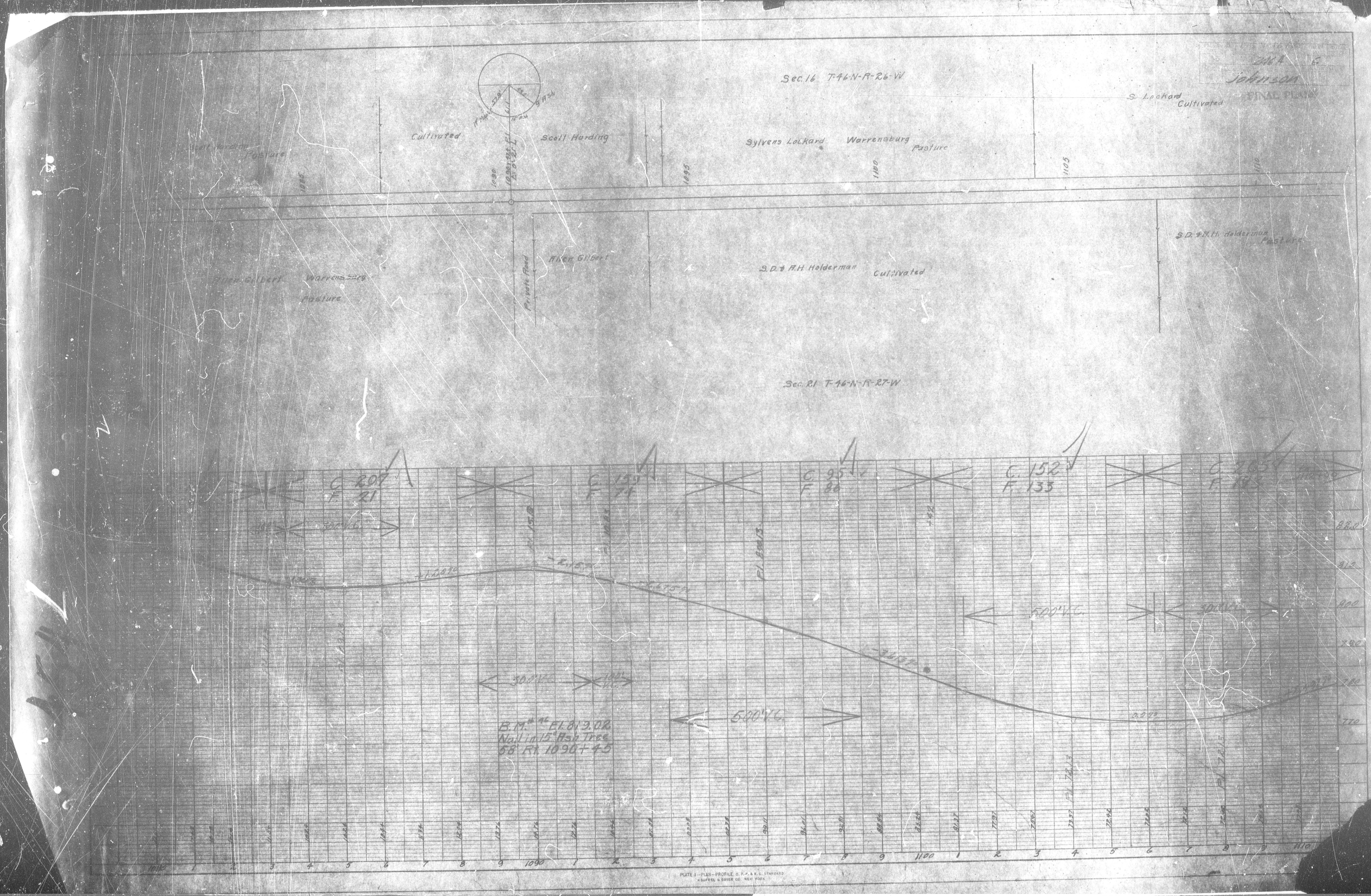
20 21

C 132
F 124

C 109
F 93

B.M. Nail in 28" Elm Trees
70' Rt & 10 Rt 1+53

PLATE 1—PLAN—PROFILE C. P. R. R. E. STANDARD
KRUPPEL & KISSER CO., NEW YORK



Johnson
FINAL PLANS
Sec. 16 T-46-N-R-26-W
Cultivated
Scott Harding
Sylvens Lockard
Warrensburg
Pasture
S. Lockard
Cultivated
Allen Gilbert
Private Road
S.D. & A.H. Holderman
Cultivated
S.D. & A.H. Holderman
Pasture
Sec. 21 T-46-N-R-27-W
C. 207
F. 21
C. 159
F. 74
C. 95
F. 86
C. 152
F. 133
300' V.C.
500' V.C.
B.M. #46 El. 819.02
Nail in 15" Ash Tree
58' Rt. 1090+45
1090
1100
1110

T 46N - R 26W
Sec. 16

T 46N - R 26W
Sec. 15

Nadja

1120+30 P.O.T. on E. Approx. Location of Sec. Cor. Approx. Sec. Line

William Caldwell

1124+00 P.O.T.

Yard

Yard

Pasture

Pasture

William Caldwell

16 15

21 22

S.D. & A.H. Holderman

S.D. & A.H. Holderman

Pasture

T 46N - R 26W
Sec. 21

T 46N - R 26W
Sec. 22

E. 12" ø EL. 78.25
Nail in 15" Catalpa Tree
95' Lt. 1114+00

B.M. #48 EL. 77.56
Nail in 26" Maple Tree
95' Lt. 1122+48

C. 45
F. 17

C. 79
F. 56

C. 102
F. 90

C. 65
F. 56

C. 123
F. 2

C. 290
F. 17

200' V.C.

230' V.C.

300' V.C.

EL. 1148

EL. 1127

EL. 1111.20

EL. 1111.20

EL. 1114.70

EL. 1114.70

EL. 1114.70

Sec. 15 T-46-N-R-26-W

Clark Est. Cultivated

Pasture

Old Road

Woods

Public Road

Clark Est. Cultivated

Sec. 22 T-46-N-R-26-W

1150

1155

1160

1165

1170

1175

1180

1185

1190

1195

1200

1205

1210

1215

1220

1225

1230

1235

1240

1245

1250

1255

1260

1265

1270

1275

1280

1285

1290

1295

1300

1305

1310

1315

1320

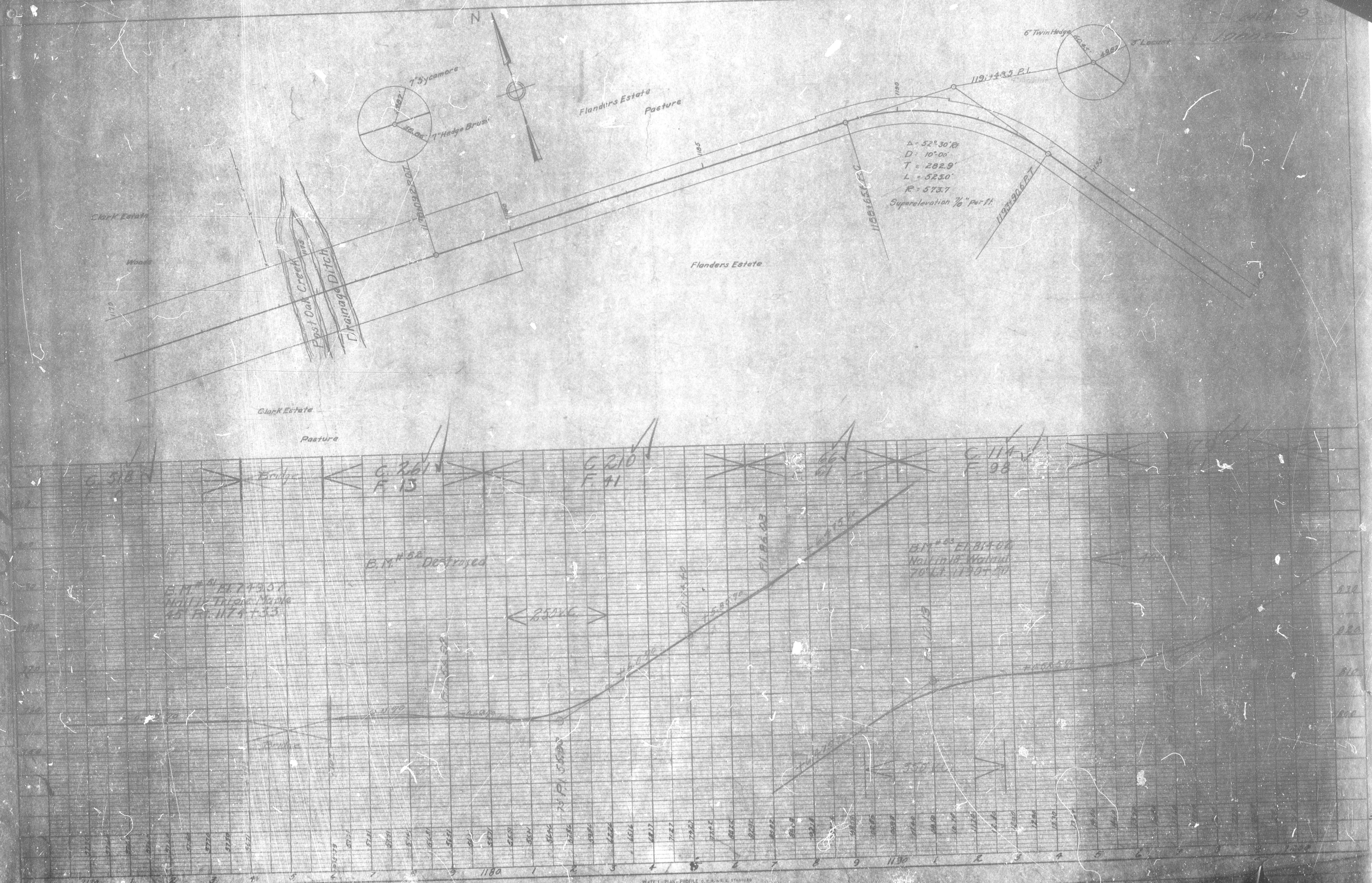
1325

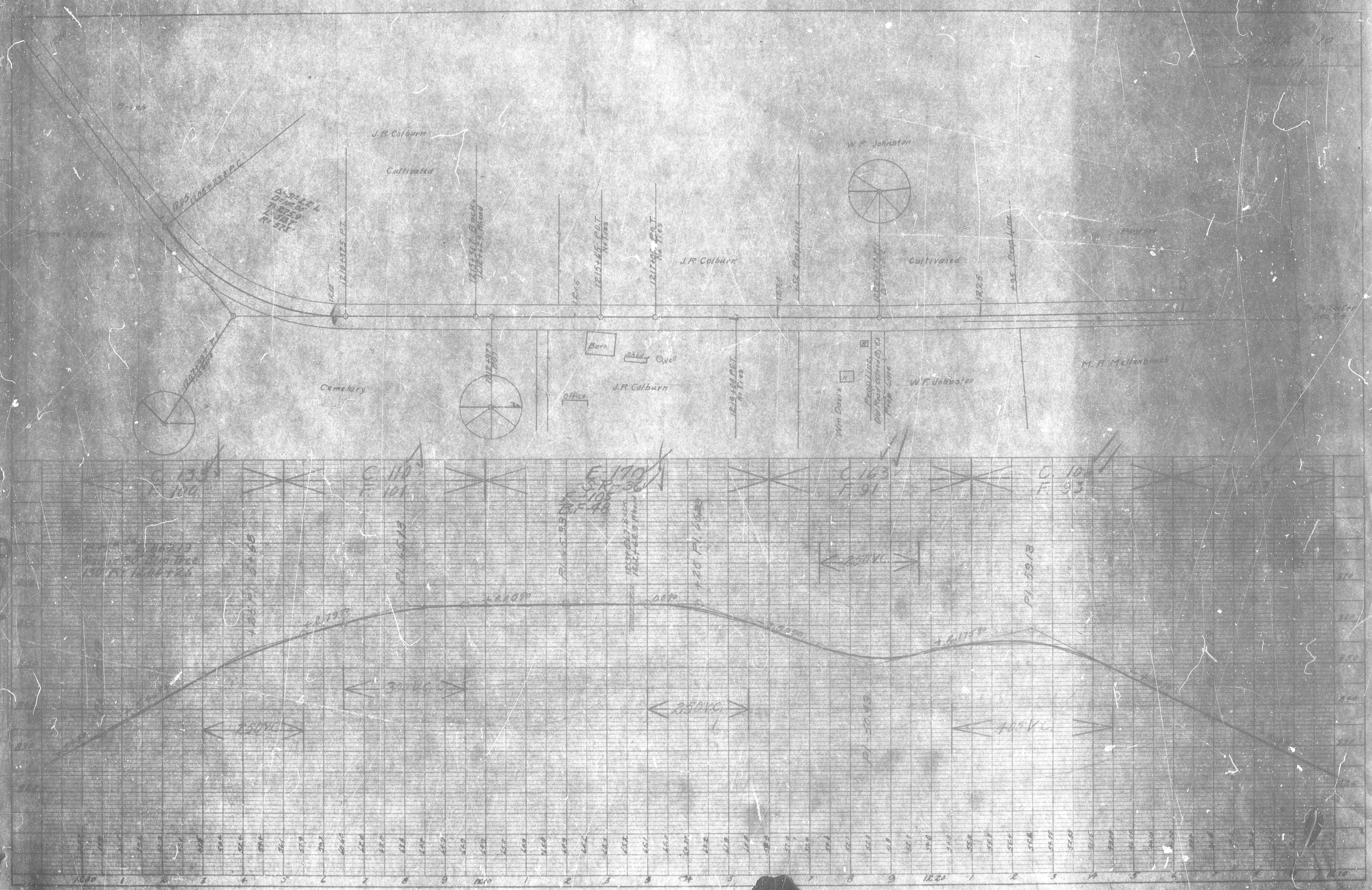
1330

1335

1340

1345

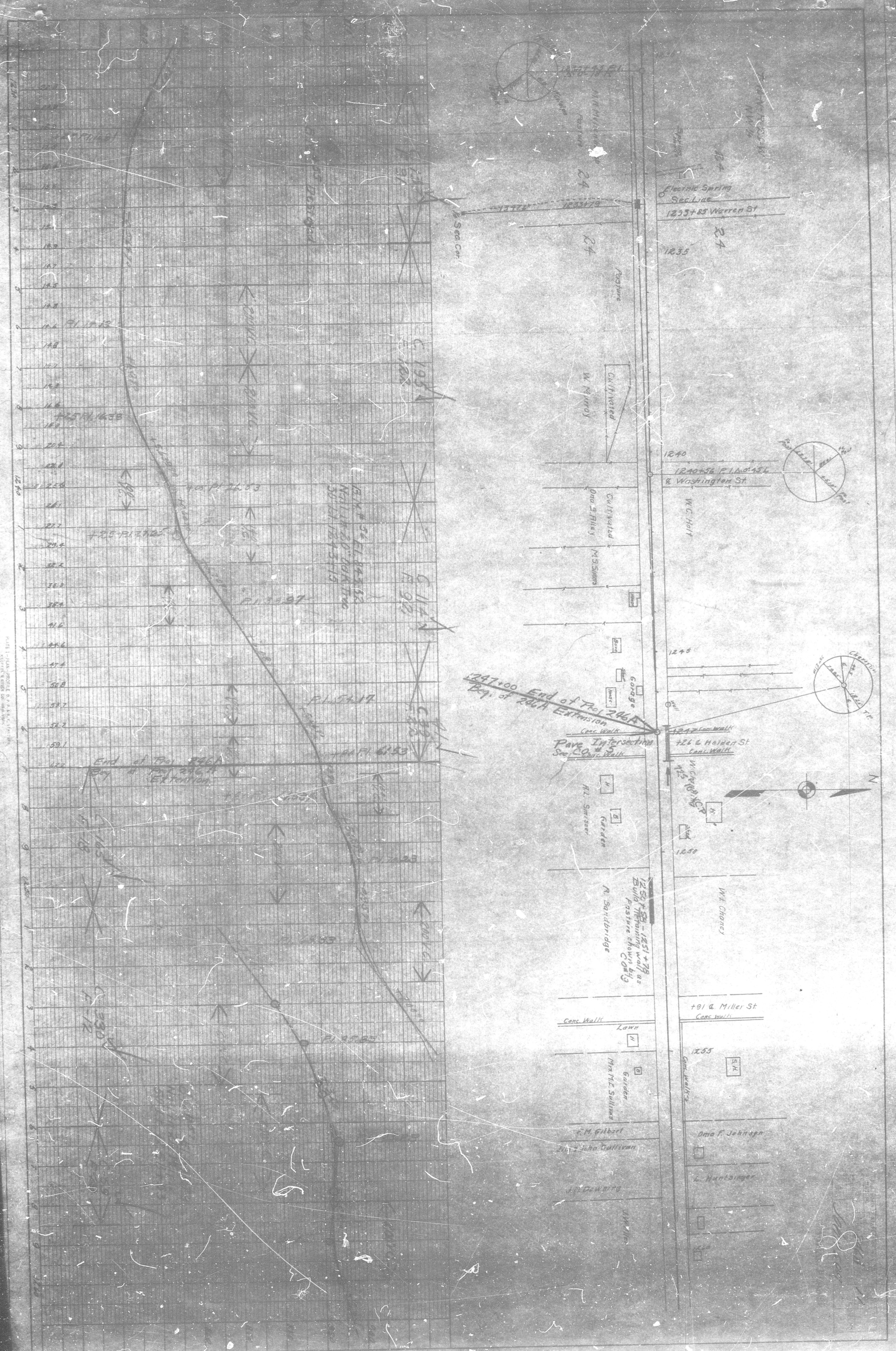

N
7" Sycamore
7" Hedge Brush
Flanders Estate
Pasture
6" Twin Hedge
3" Locust
1191+48.5 P.I.
Δ = 52°30' Rt
D = 10°00'
T = 282.9'
L = 525.0'
R = 573.7
Superelevation 7/8" per ft.
1188+65.5 P.C.
1193+90.6 P.T.
Clark Estate
Woods
Post Oak Creek
Drainage Ditch
Flanders Estate
Clark Estate
Pasture
C. 518
Bridge
C. 261
F. 13
C. 210
F. 41
C. 114
F. 98
B.M. #52 Destroyed
B.M. #51 El. 749.57
Nail in Triple Maple
45' Rt. 1174+33
B.M. #53 El. 814.02
Nail in 18" Walnut
70' Lt. 1190+50
250 V.C.
350 V.C.
1180
1190
PLATE I - PLAN - PROFILE



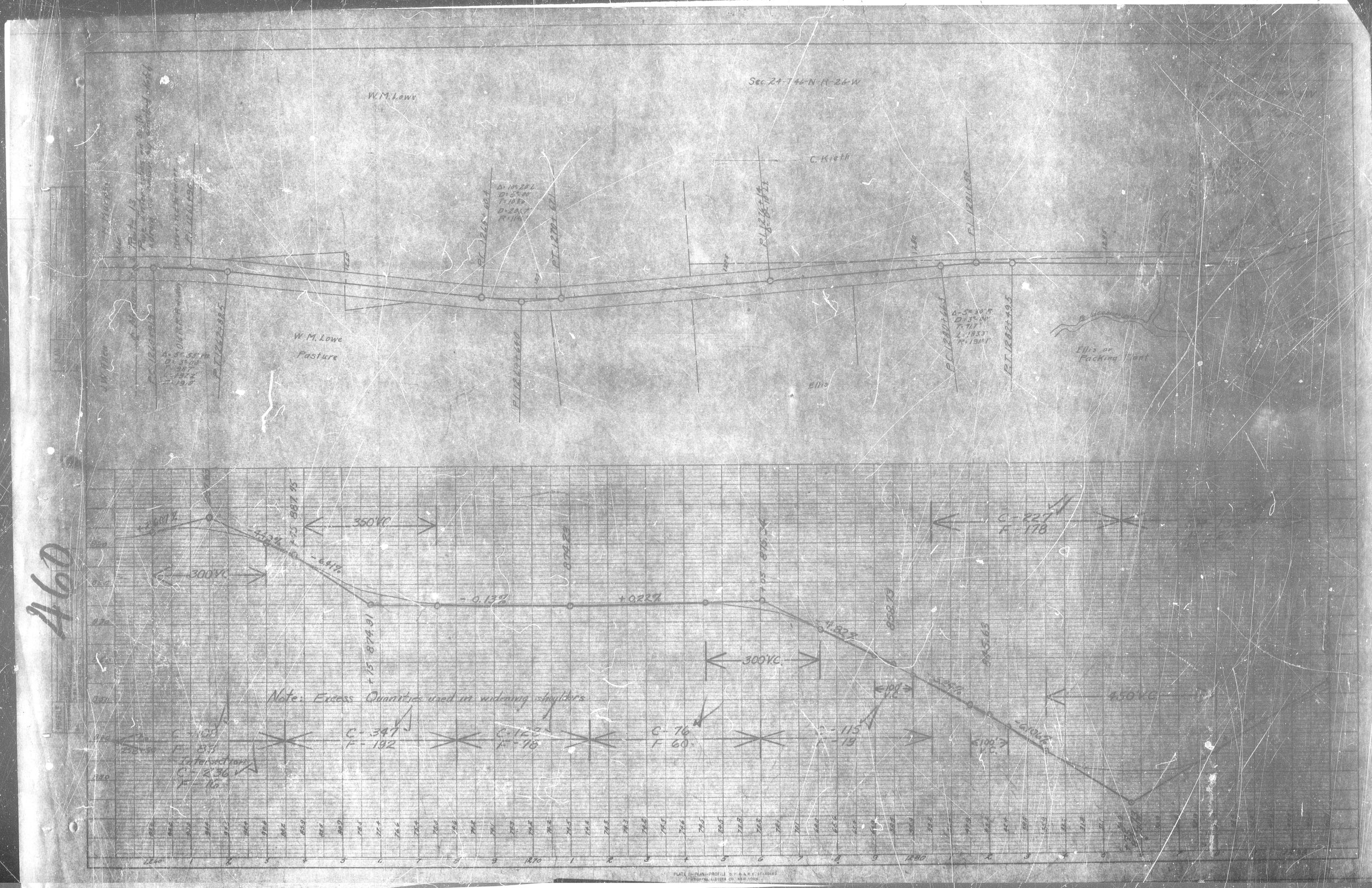
458

PLATE I—PLAN—PROFILE C. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK

459

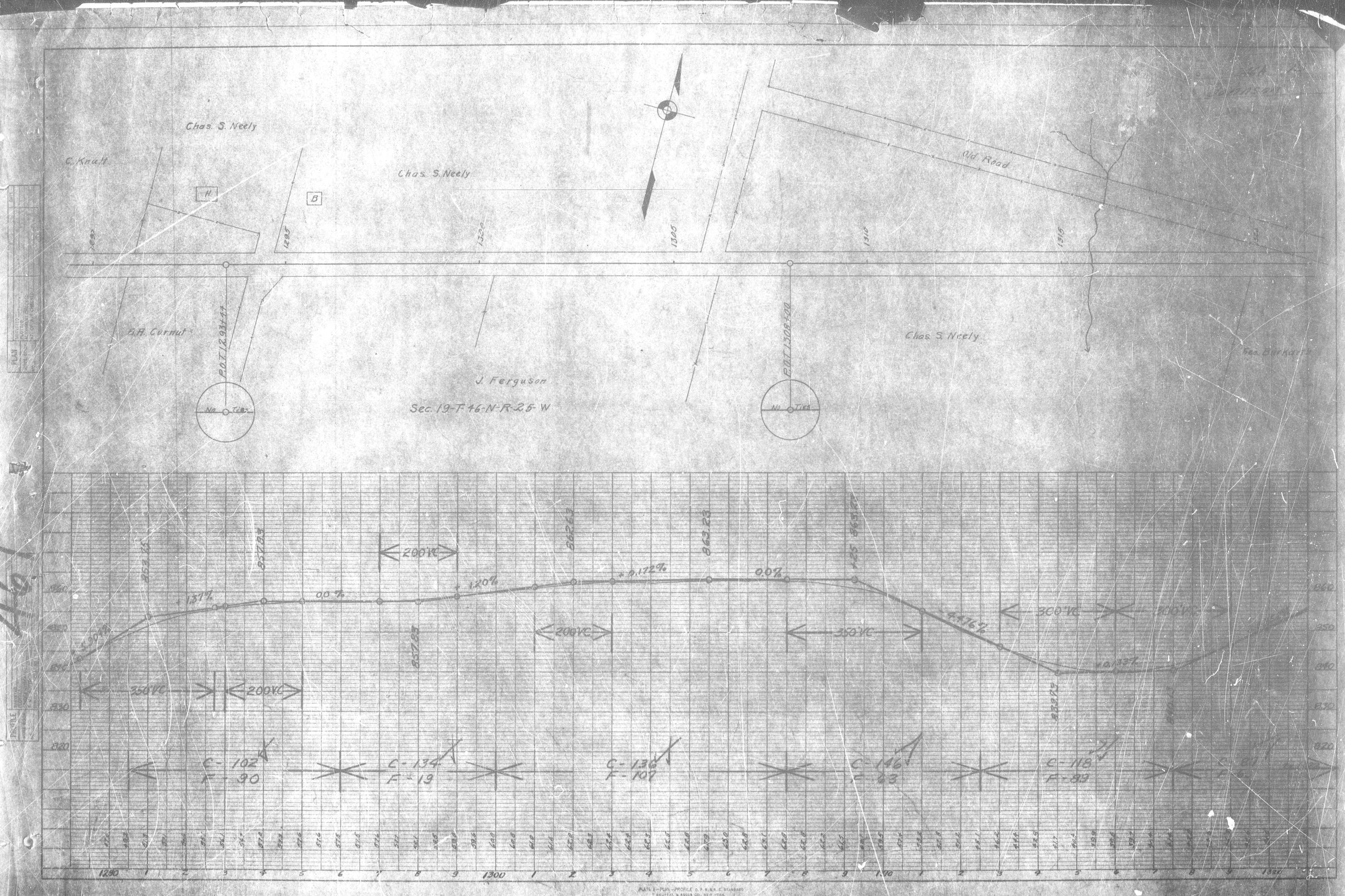


Electric Spring
Sec. Line
1233+85 Warren St
1235
Pasture
Cultivated
W. Murray
1240
1240+56 P.I. Δ 0°45' L
& Washington St
W.C. Holt
Cultivated
Ona S. Alley
M.S. Simms
1245
Garage
1247+00 End of Proj. 246A
Beg. of 246A Extension
Conc. Walk
Pave Intersection
See C.O. #5
+26 & Holden St
Conc. Walk
R.L. Smisser
Garden
1250
R. Sandbridge
W.L. Chaney
+91 & Miller St
Conc. Walk
Lawn
1255
Garden
Mrs. M.L. Sullivan
F.M. Gilbert
John Sullivan
Oma F. Johnson
L. Huntsinger
J.J. Downing
Cherrillin
N



Sec. 24-T46-N-R-26-W
W. M. Lowe
C. Kieth
W. M. Lowe
Pasture
Ellis
Ellis or
Packing Plant
350' V.C.
300' V.C.
-0.13%
+0.22%
-4.82%
300' V.C.
450' V.C.
C-227
F-178
C-347
F-192
C-76
F-60
Note: Excess Quantities used in widening shoulders
Intersection
C-236
F-16

460



Chas. S. Neely
C. Knuth
Chas. S. Neely
Old Road
H
B
1295
1300
1305
1310
1315
B.A. Curnut
P.O.T. 1293+44
P.O.T. 1308+00
Chas. S. Neely
J. Ferguson
Sec. 19-T-46-N-R-25-W
No Ties
No Ties
200'VC
200'VC
350'VC
350'VC
300'VC
300'VC
+1.37%
0.0%
+1.20%
+0.172%
0.0%
-4.476%
+0.133%
C-102
F-90
C-134
F-19
C-136
F-107
C-146
F-63
C-118
F-89
1290
1300
1310
1320

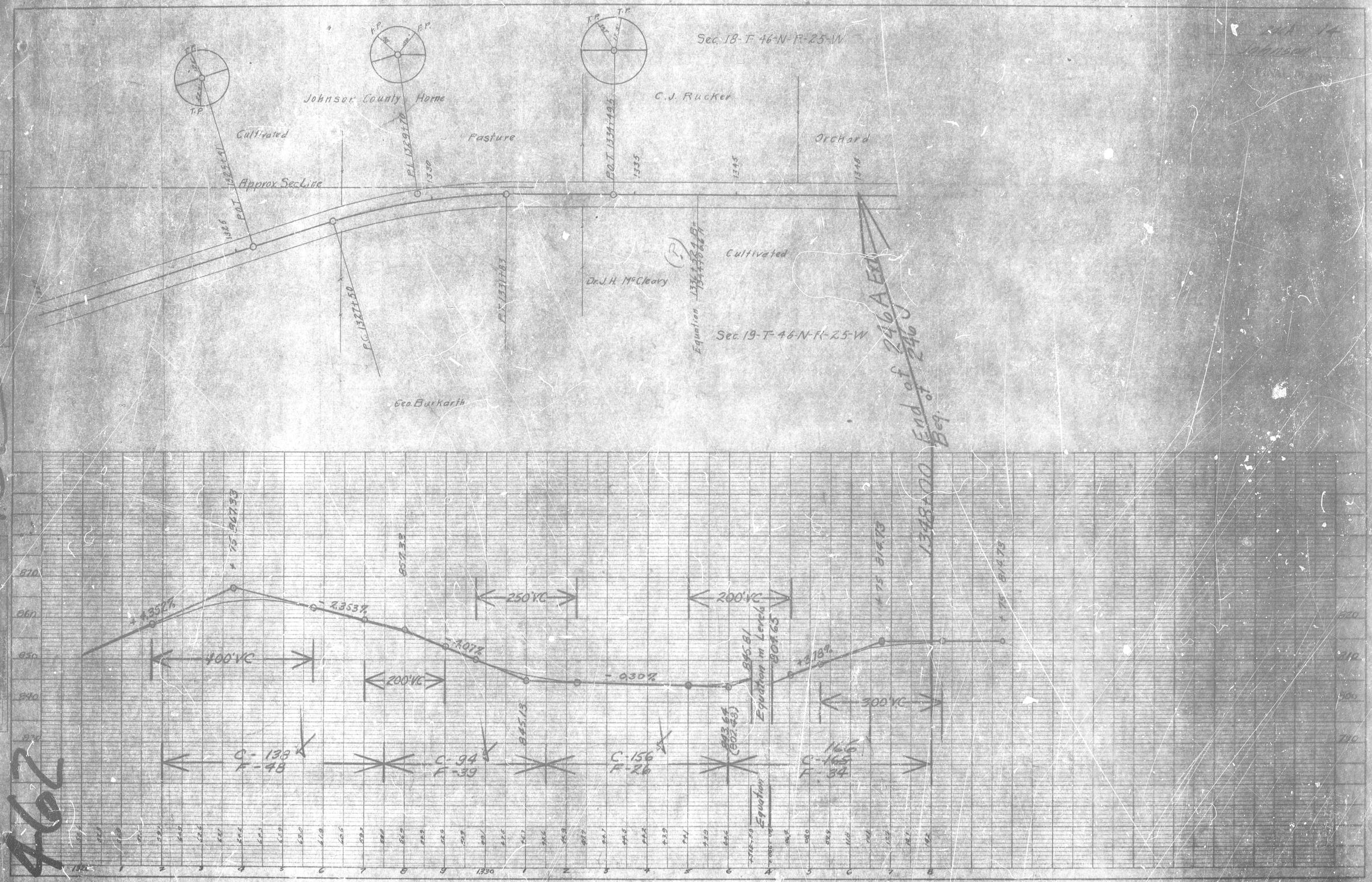
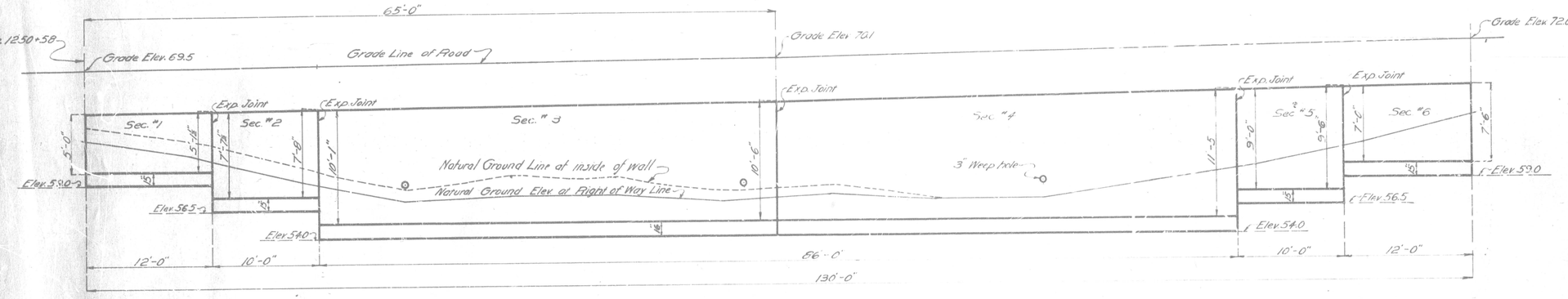


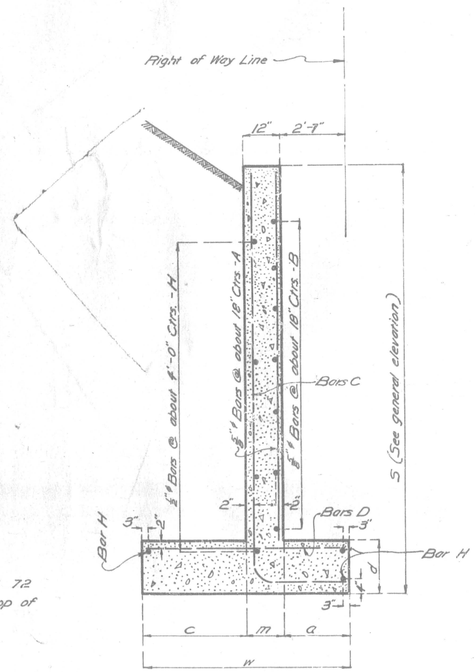
PLATE I—PLAN—PROFILE D. P. R. & R. E. STANDARD
KRUFFEL & ESSER CO. NEW YORK

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	246 A	1926		

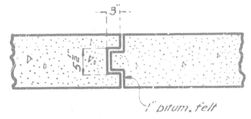


GENERAL ELEVATION

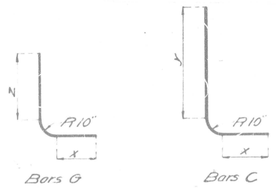


Note - Cut ½ C bars off 7.2 diameters above top of footing Mark "B".

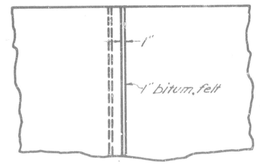
TYPICAL SECTION THRU RETAINING WALL



SEC THRU EXPANSION JOINT



BENDING DIAGRAMS



DETAILS OF EXPANSION JOINT

	Sec. "1	Sec. "2	Sec. "3	Sec. "4	Sec. "5	Sec. "6
w	4'-0"	5'-0"	6'-3"	6'-3"	6'-0"	4'-9"
a	17"	22"	2'-7"	2'-7"	2'-5"	21"
m	12"	12"	12"	12"	12"	12"
c	19"	2'-2"	2'-8"	2'-8"	2'-7"	2'-0"
d	15"	15"	16"	16"	15"	15"
A	8 - ⅝" # - 4'-9"	7 - ⅝" # - 7'-6"	29 ½" # - 10'-0"	29 ½" # - 10'-3"	7 - ⅝" # - 8'-9"	8 - ⅝" # - 6'-9"
B	4 - ⅝" # - 11'-9"	6 - ⅝" # - 9'-9"	14 - ⅝" # - 23'-0"	14 - ⅝" # - 23'-0"	6 - ⅝" # - 9'-9"	6 - ⅝" # - 11'-9"
C	6 - ⅝" # - 7'-3" - 24 Cts.	5 - ⅝" # - 10'-6" - 22 Cts	35 - ⅝" # - 13'-9" - 15 Cts.	35 - ⅝" # - 14'-0" - 15 Cts.	9 - ⅝" # - 12'-3" - 15 Cts.	7 - ⅝" # - 9'-6" - 22 Cts.
G	6 - ⅝" # - 5'-6" - 24 Cts.	5 - ⅝" # - 6'-0" - 22 Cts.	35 - ⅝" # - 8'-3" - 15 Cts.	35 - ⅝" # - 8'-3" - 15 Cts.	8 - ⅝" # - 7 3'-15 Cts.	7 - ⅝" # - 6'-0" - 22 Cts
H	5 - ½" # - 11'-9"	6 - ½" # - 9'-9"	12 - ½" # - 23'-0"	12 - ½" # - 23'-0"	6 - ⅝" # - 9'-9"	6 - ⅝" # - 11'-9"
D	12 - ⅝" # - 3'-6" - 12 Cts.	10 - ⅝" # - 4'-6" - 12 Cts.	43 - ⅝" # - 6'-0" - 12 Cts.	43 - ⅝" # - 6'-0" - 12 Cts.	13 - ⅝" # - 5'-9" 11 Cts.	12 - ⅝" # - 4'-3" 12 Cts.
x	14"	19"	2'-4"	2'-4"	2'-2"	18"
y	4'-9"	7'-7"	10'-1"	10'-4"	8'-9"	6'-8"
z	3'-0"	3'-1"	4'-7"	4'-7"	3'-9"	3'-2"

ESTIMATED QUANTITIES

Excavation	190 Cu. Yds.
Concrete 1:2:4 Mix.	81.0 Cu. Yds.
Rein. Steel	2531 #

GENERAL NOTES

Exposed edges to be beveled ¾

All concrete to be 1:2:4 Mix.

RETAINING WALL.

STATE ROAD FROM WARRENSBURG TO KANSAS CITY

AT WARRENSBURG

PROJECT NO. 246 A STA 1250+58

JOHNSON COUNTY

SUBMITTED BY U.V. Swanson ACTING BRIDGE ENGINEER DATE May 7, 1926

PASSED BY J.H. Redhump ASSISTANT TO CHIEF ENGINEER DATE May 8 1926

APPROVED BY _____ CHIEF ENGINEER DATE

Drawn April 1926 by W.H.P.
Traced May 1926 by L.W.V.
Checked May 1926 by C.C.A.

H-475

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