Print X 2ea

SOPERTON - MARINETTE ROAD ④ SHEET No. 1
APPLICATION No. 434(23) JOB No. 7629F

GRADE SHEET					SLOPE STAKES	
Stake No.	Dist. Stake to new ctr. line of road	Dist. ctr. of new subgrade above or below top of stk	Cut or Fill	Elevation top of stake	Dist. from new ctr. line to slope stakes Left of ctr.	Right of ctr.
1	2	3	4	5	6	7
0	30.0'	Below 1.5'	Fill 0.3'	99.89'		
1	30.0	" 1.3'	" 0.7'	98.80'	C1.1 18.2	C1.5 18.8
2	30.0	" 1.6'	" 0.2'	98.22	C1.0 18.0	C2.0 19.5
3	30.0	" 2.1'	" 0.1'	97.75	C1.1 18.2	C2.3 19.9
4	30.0	" 1.2'	" 0.2'	95.95	C0.9 17.8	C1.6 18.9
5	30.0	" 1.4'	" 1.4'	94.80	C0.5 17.2	C1.4 18.6
6	30.0	" 2.5'	Cut 0.8	95.65	C2.0 19.5	C2.5 20.3
7	30.0	" 0.6'	Fill 0.6	93.83	C0.6 17.4	C1.4 18.6
8	30.0	" 1.3'	" 1.1	94.45	F1.7 14.5	C1.4 18.6
9	30.0	" 1.8'	" 1.3	95.04	F2.0 15.0	C1.3 18.5
10	30.0	" 2.8'	" 0.7	95.99	F1.3 14.0	C2.7 20.2
11	30.0	" 3.8'	Cut 0.3	97.65	F0.9 13.3	C3.6 21.9
+55					F1.5 14.3	C4.0 22.5
12	30.0	" 4.0'	" 0.8	98.64	C1.0 18.0	C4.2 22.8
13	30.0	Above 1.4'	" 0.3	93.74	F0.9 13.4	C3.3 21.5
+60					C1.7 19.0	C3.3 21.5
+80					F2.4 15.6	C4.5 23.2
14	30.0	Below 1.8'	" 1.7	95.02	C2.5 20.3	C3.4 21.6
15	30.0	" 0.6'	" 0.7	89.71	C1.3 18.5	C2.7 20.5
16	30.0	Above 3.0'	Fill 3.4	81.72	F3.6 17.4	F3.3 17.0
17	30.0	Below 0.7'	" 0.5	80.79	C1.0 18.0	C1.1 18.2
18	30.0	" 4.0'	Cut 2.0	79.88	C3.3 21.5	C4.2 22.8
19	30.0	" 3.0'	" 1.8	74.51	C3.2 21.3	C4.5 23.2
+45					C3.0 21.0	C2.8 20.7
20	30.0	Above 2.0'	Fill 1.7	65.10	F2.6 15.9	F1.9 14.8
21	30.0	" 1.7'	" 2.0	60.95	F2.9 16.3	F3.5 17.2
22	30.0	" 0.5	" 0.8	59.81	F1.7 14.5	F1.7 14.5
23	30.0	" 0.9	" 0.9	59.42	F1.9 14.8	F1.9 14.8
24	30.0	" 1.5	" 1.4	58.76	F2.4 15.6	F2.1 15.1
25	30.0	" 1.2	" 0.8	58.90	F2.4 15.6	F2.0 15.0
26	30.0	" 1.5	" 0.8	58.37	F2.2 15.3	F1.8 14.7
27	30.0	" 0.9	" 0.7	58.81	F2.3 15.5	F2.0 15.0
28	30.0	" 2.1	Grade	57.36	F2.4 15.6	F1.8 14.7
29	30.0	" 2.1	Cut 0.3	57.64	F1.5 14.2	F0.7 13.0
30	30.0	Below 0.3	" 0.8	58.07	C2.0 28.0	C3.9 29.9
31	30.0	Above 0.5	Fill 0.5	56.30	F1.7 14.6	F1.7 14.6
32	30.0	" 2.5	" 1.7	55.02	F3.5 17.3	F3.1 16.7
33	30.0	" 4.7	" 3.1	53.79	F5.9 20.8	F5.7 20.6
+50					F5.5 20.3	F6.1 21.1

NOTE:- In grading, check height of finished grade by Col. # 3 of the Grade Sheet which shows the height the new subgrade is above or below the top of the station stake

In setting slope stakes face direction in which station numbers increase.

SOPERTON - MARINETTE ROAD ④ SHEET No. 1
APPLICATION No.
JOB No. 7629F

GRADE SHEET					SLOPE STAKES	
Stake No.	Dist. Stake to new ctr. line of road.	Dist. ctr. of new subgrade above or below top of stk	Cut or Fill	Elevation top of stake.	Dist. from new ctr. line to slope stakes Left of ctr.	Right of ctr.
1	2	3	4	5	6	7
34	25.0	Below 4.4	Cut 0.6	63.81	C5.1 24.2	C2.5 20.3
+30					C3.1 21.1	C5.9 25.3
35	30.0	" 9.0	" 2.7	69.36	C9.9 31.3	C2.7 20.5
36	30.0	" 3.5	" 1.1	64.83	C4.7 23.5	C9.5 30.7
+75					F4.9 19.3	F2.4 15.6
37	30.0	Above 4.2	Fill 2.7	58.13	F4.9 19.4	F3.8 17.7
38	30.0	" 5.3	" 2.9	57.91	F6.2 21.3	F3.6 17.4
39	30.0	" 1.6	" 2.5	62.59	F3.5 17.3	F5.2 19.8
40	30.0	Below 3.3	Cut 0.9	78.36	C12.3 28.8	F1.4 14.1
41	30.0	" 15.7	" 2.9	80.90	C15.8 34.3	C2.5 19.0
+50	30.0	" 5.4	" 3.4	69.94	C16.3 34.8	C6.0 22.5
42+50	30.0	" 9.0	" 0.4	70.97	C4.0 22.0	F7.0 22.5
+81.3	30.0	Above 6.8	Fill 1.9	54.33	F1.6 15.4	F7.3 22.9
43	30.0	Below 1.1	" 2.5	61.75	F4.3 18.4	F7.0 22.5
44	30.0	Above 2.2	" 1.3	55.75	F3.7 17.5	F5.1 19.6
45	27.6	Below 7.6	Cut 0.7	63.37	C5.0 21.5	F1.6 14.4
46	30.0	Even	" 2.9	55.22	C8.0 24.5	C2.1 18.6
+50					C1.9 18.4	C0.0 12.0
47	30.0	Above 0.3	Fill 0.4	54.89	F2.3 15.5	F1.4 14.1
48	30.0	" 2.1	" 0.9	54.03	F3.5 17.3	F3.5 17.3
49	30.0	" 3.4	" 1.2	54.69	F2.2 15.3	F2.6 16.4
+19.1	30.0	" 5.2	" 1.2	55.84	F6.7 22.0	C4.6 23.1
+50	35.0	Below 18.1	Cut 1.9	80.71	C2.9 19.4	C20.2 40.2
50	35.0	" 14.4	" 0.5	79.44	F0.4 12.6	C14.0 34.5
+50	35.0	" 8.6	Fill 0.7	76.13	F1.6 14.4	C0.8 21.5
51	35.0	" 5.7	" 2.4	75.61	F13.6 32.4	F1.2 17.8
+50	35.0	" 7.5	" 1.1	79.89	F2.3 15.5	C1.4 21.5
52	35.0	" 5.8	Cut 0.9	80.57	C2.2 18.7	C2.1 22.6
+61.2	35.0	" 4.5	" 0.7	82.22	C2.1 19.7	C4.8 23.3

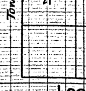
NOTE:- In grading, check height of finished grade by Col. # 3 of the Grade Sheet which shows the height the new subgrade is above or below the top of the station stake.

In setting slope stakes face direction in which station numbers increase.

PLAN A
SOPERTON
COUNTY
TOWN OF WA
Section 16/21 15/22 14/23 13/24
Commencing near
on or near line to

ESTIMA
New Right of Wa
Clearing and Gr
Excavation-Ditchi
Earth
Loose
Solid
Borro
Culverts - Concr
Steel
Bridges See S
Guard Fence
Surfa

Class "B"



North
Town 34 N.
16
App 149 F
End of "A" Line = 5
21

Loc

Note App 149
without a pla
extra length.
in the location

APPLICATION
DIVISION JOB
④ SHEET No.
COUNTY TRUN
Between Mile
NOTE:- Culverts
provided b
kept open.

AND PROFILE OF THE
H - MARINETTE ROAD.

Y OF FOREST
BENO
Town 34 North ;Range 16 East.
1/4 Cor. of 16/21 and extending Easterly.
Marinette Co. Line. Length 19729.0'= 3.74 mi

ATE OF QUANTITIES

y	25.10	Acres.
ubbing Clr. 6.5 AC. GRB	12.13	Acres
ng	972	Cu. Yds.
	23329	Cu. Yds.
Rock	0	Cu Yds.
Rock	0	Cu. Yds.
w	902	Cu. Yds.
ete - Class 'A'	98.89	Cu. Yds.
	2671	Pounds.
pecial Plans.		
	3501.0	Lin. Ft.
cing	00	Yds.
Construction		

SURVEYS AND PLANS
MADE BY THE
WISCONSIN HIGHWAY COMMISSION
Madison, Wisconsin.

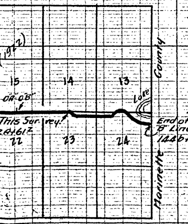
Surveyed:- Aug & Nov.
Surveyed by:- W.P. Kilduff
Drawn by:- W.P. Kilduff
Computed by:- W.P.K.
Checked by:- W.P.K.
Note Book No:- 9
Horizontal Scale 1"=80'
Vertical Scale - 1"=8'

Recommended for Approval:
4-10-1923
F M Sergeant
Division Engineer.
Approved:- 4/17/28
A R Hirst
State Highway Engineer.

—LEGEND—

Reference Stakes	——→
Present Travelled Way	- - - - - -
New Center Line	━━━━
Profile of Present Centers	────
Profile Centers New Subgrade	━━━━
Fence Lines	────
New Right of Way Lines	────
Railways	▬▬▬
Telephone and Telegraph Poles	● ● ● ● ● ●
Marsh	
Timber	

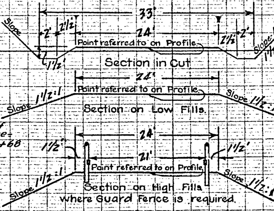
RANGE 16 East


(1922)
15
14
13
"0A" "0B"
This Survey
24A+61.2
22
23
24
Lake
End of "B" Line= 144b+68
Marinette County

ATION DIAGRAM
F(1922) was extended
n being made for the
This accounts for the break
diagram of App. 149F

No. (1923)
No. 7629F
K "J"
and Mile
t all private entrances must be
y property owner or the ditch
(Section 1326 - Wisconsin Statutes)

CROSS SECTIONS


33'
2'
2 1/2'
24'
1 1/2'
2'
Slope
Point referred to on Profile
1 1/2'
Slope 1:1 (Sta. 40"A" to Sta.
1 1/2:1 (All other Sections
Section in Cut
24'
Point referred to on Profile
Slope 1 1/2:1
Slope 1 1/2:1
Section on Low Fills.
24'
1 1/2'
1 1/2'
21'
Point referred to on Profile
Slope 1 1/2:1
Slope 1 1/2:1
Section on High Fills
where Guard Fence is required.

NOTES ON SPECIAL CROSS SECTIONS.

FULL SUPERELEVATION AND WIDENING ARE REQUIRED FOR FULL LENGTH OF CURVE.

THE SUPERELEVATION IS TO BE STARTED 100.0' OUTSIDE OF THE ENDS OF CURVE AND UNIFORMLY INCREASED TO FULL SUPER-ELEVATION AT ENDS OF CURVE

THE WIDENING IS TO BE STARTED 50.0' OUTSIDE OF THE ENDS OF CURVE AND UNIFORMLY INCREASED TO FULL WIDENING AT ENDS OF CURVE.

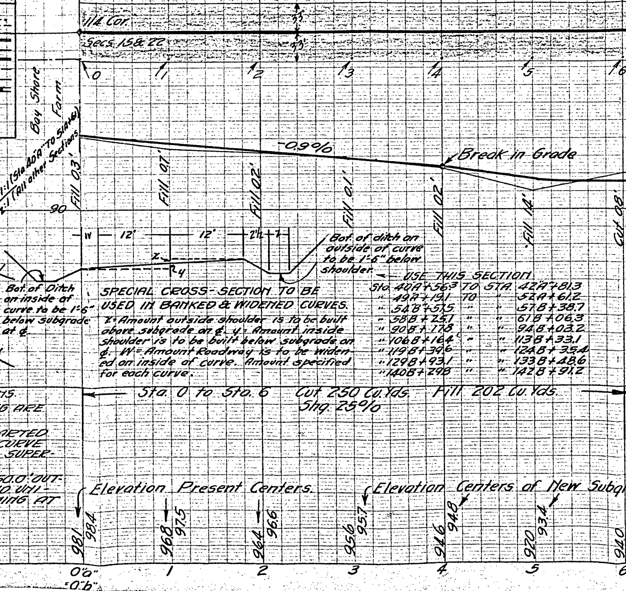
DO NOT CROWN ROADWAY.

Sections showing finished road.

B.M. - Notch on root of 2' Maple stump 30' South of ℄ at sta. 1"b" Elevation 100.00'

Cut-over Land

ESTIMATE OF QUANT
NEW RIGHT OF WAY
CLEARING & GRUBB
EXCAVATION, EARTH
" , DITCHI
" , BORRO
CONCRETE
STEEL
GUARD FENCE


1/4 Cor.
Secs. 15 & 22
33'
33'
0
1
2
3
4
5
6
Bay Shore Farm
Fill 0.3'
Fill 0.7'
Fill 0.2'
Fill 0.1'
Fill 0.2'
Fill 1.4'
Cut 0.8'
-0.9%
Break in Grade
90
W
12'
12'
2 1/2'
1'
x
y
Bot. of Ditch on inside of curve to be 1'-6" below subgrade at ℄
Bot. of ditch on outside of curve to be 1'-6" below shoulder.
Elevation Present Centers.
Elevation Centers of New Subg
98.1
98.4
96.8
97.5
96.4
96.6
95.6
95.7
94.6
94.8
92.0
93.4
94.0
0"a"
0"b"
1
2
3
4
5
6

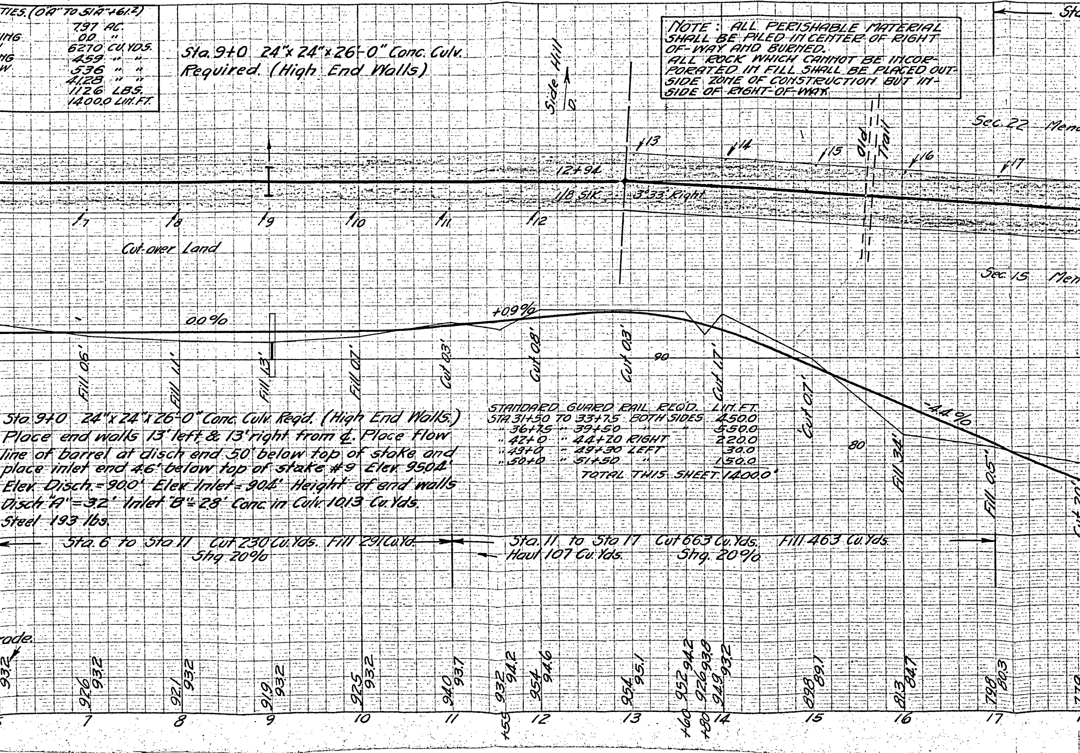
SPECIAL CROSS-SECTION TO BE USED IN BANKED & WIDENED CURVES.

X = Amount outside shoulder is to be built above subgrade on ℄. y = Amount inside shoulder is to be built below subgrade on ℄. W = Amount Roadway is to be widened on inside of curve. Amount specified for each curve.

← USE THIS SECTION

Sta.	40A+56.3	TO STA.	42A+81.3
"	49A+19.1	TO "	52A+61.2
"	54B+57.5	" "	57B+38.7
"	58B+25.1	" "	61B+06.3
"	90B+17.8	" "	94B+03.2
"	106B+16.4	" "	113B+33.1
"	119B+39.6	" "	124B+35.4
"	129B+93.1	" "	133B+48.6
"	140B+29.8	" "	142B+91.2

← Sta. 0 to Sta. 6 Cut 250 Cu. Yds. Fill 202 Cu. Yds. →
Shg. 25%


Side Hill
D
12+94
1/8 SIK
3°33' Right
13
14
15
16
17
7
8
9
10
11
12
Old Trail
Sec. 22 Mend
Sec. 15 Men
Cut-over Land
Sta
0.0%
+0.9%
-4.4%
90
80
Fill 0.6'
Fill 1.1'
Fill 1.3'
Fill 0.7'
Cut 0.3'
Cut 0.8'
Cut 0.3'
Cut 1.7'
Cut 0.7'
Fill 3.4'
Fill 0.5'
Cut 2.0'
rade.
93.2
92.6
93.2
92.1
93.2
91.9
93.2
92.5
93.2
94.0
93.7
93.2
94.2
95.4
94.6
95.4
95.1
95.2
94.2
92.6
93.8
94.9
93.2
89.8
89.1
81.3
84.7
79.8
80.3
77.0
7
8
9
10
11
+55
12
13
+60
+80
14
15
16
17

TIES. ("0A" TO 51A"+61.2)

	7.97 AC.
ING	0.0 "
	6270 CU. YDS.
NG	459 " "
W	536 " "
	41.28 " "
	11.26 LBS.
	1400.0 LIN. FT.

Sta. 9+0 24"x 24"x 26'-0" Conc. Culv. Required. (High End Walls)

NOTE: ALL PERISHABLE MATERIAL SHALL BE PILED IN CENTER OF RIGHT OF-WAY AND BURNED.
ALL ROCK WHICH CANNOT BE INCORPORATED IN FILL SHALL BE PLACED OUTSIDE ZONE OF CONSTRUCTION BUT INSIDE OF RIGHT-OF-WAY.

Sta. 9+0 24"x 24"x 26'-0" Conc. Culv. Reqd. (High End Walls.) Place end walls 13' left & 13' right from ℄. Place flow line of barrel at disch end 5.0' below top of stake and place inlet end 4.6' below top of stake #9 Elev. 950.4' Elev. Disch. = 90.0' Elev. Inlet = 90.4' Height of end walls Disch "A" = 3.2' Inlet "B" = 2.8' Conc. in Culv. 10.13 Cu. Yds. Steel 193 lbs.

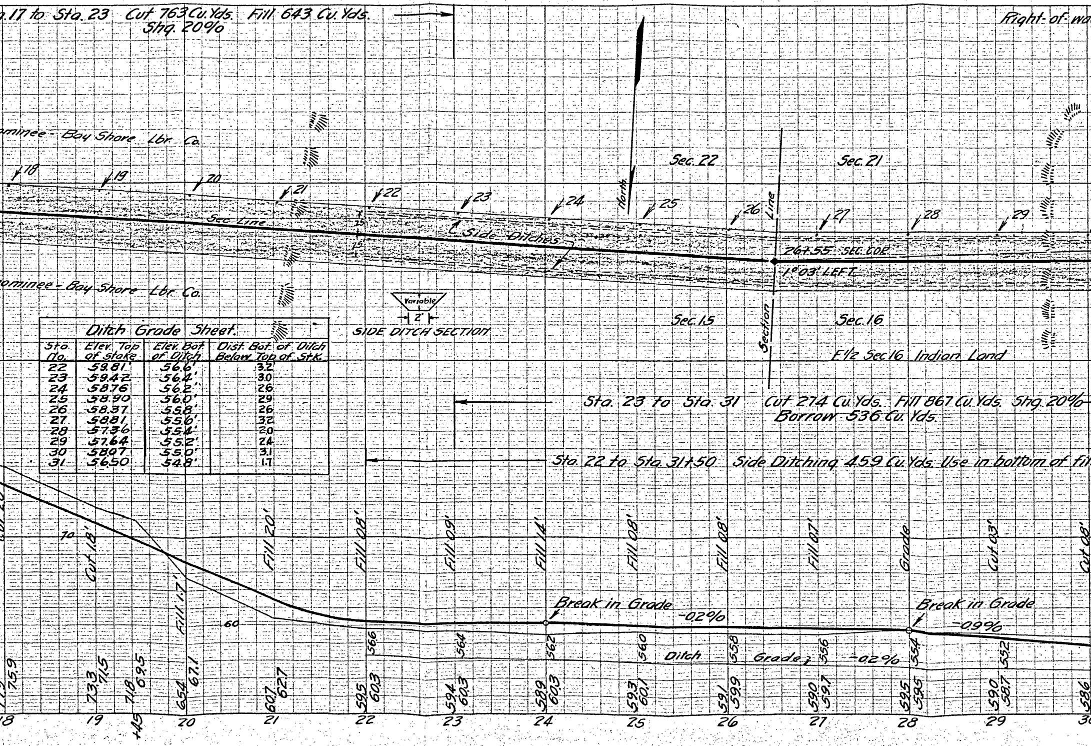
STANDARD GUARD RAIL REQ'D.			LIN. FT.
STA. 31+50	TO 33+75	BOTH SIDES	450.0
" 36+75	" 39+50	" "	550.0
" 42+0	" 44+20	RIGHT	220.0
" 49+0	" 49+30	LEFT	30.0
" 50+0	" 51+50	"	150.0
		TOTAL THIS SHEET	1400.0'

Sta. 6 to Sta. 11 Cut 230 Cu. Yds. Fill 291 Cu. Yd.
Shg 20%

Sta. 11 to Sta 17 Cut 663 Cu. Yds. Fill 463 Cu. Yds.
Haul 107 Cu. Yds. Shg. 20%

KEUFFEL & ESSER Co. NEW YORK
STANDARD PROFILE PLATE A. 4 X 20

a.17 to Sta. 23 Cut 763 Cu. Yds. Fill 643 Cu. Yds.
Shg. 20%


Right-of-wa
minee - Bay Shore Lbr. Co.
ominee - Bay Shore Lbr. Co.
North
Sec. 22
Sec. 21
Sec. 15
Sec. 16
18
19
20
21
22
23
24
25
26
27
28
29
Sec. Line
Side Ditches
Section Line
26+55 SEC. COR.
1°03' LEFT
E½ Sec 16 Indian Land
Variable
2'
SIDE DITCH SECTION
70
60
Cut 1.8'
Fill 1.7'
Fill 2.0'
Fill 0.8'
Fill 0.9'
Fill 1.4'
Fill 0.8'
Fill 0.8'
Fill 0.7'
Grade
Cut 0.3'
Cut 0.8'
Break in Grade
-0.2%
Break in Grade
-0.9%
Ditch Grade
-0.2%
75.9
73.3
71.5
71.8
69.5
+45
65.4
67.1
60.7
62.7
59.5
60.3
56.6
59.4
60.3
56.4
58.9
60.3
56.2
59.3
60.1
56.0
59.1
59.9
55.8
59.0
59.7
55.6
59.5
59.5
55.4
59.0
58.7
55.2
58.6
18
19
20
21
22
23
24
25
26
27
28
29
30

Sta. 23 to Sta. 31 Cut 274 Cu. Yds. Fill 867 Cu. Yds. Shg. 20%
Borrow 536 Cu. Yds.

Sta. 22 to Sta. 31+50 Side Ditching 459 Cu. Yds. Use in bottom of fi

Ditch Grade Sheet.

Sta. No.	Elev. Top of Stake	Elev. Bot. of Ditch	Dist. Bot. of Ditch Below Top of Stk.
22	59.81'	56.6'	3.2
23	59.42	56.4'	3.0
24	58.76	56.2'	2.6
25	58.90	56.0'	2.9
26	58.37	55.8'	2.6
27	58.81	55.6'	3.2
28	57.36	55.4'	2.0
29	57.64	55.2'	2.4
30	58.07	55.0'	3.1
31	56.50	54.8'	1.7

y.(this sheet) Cleared and Grubbed. Boulders blasted out.

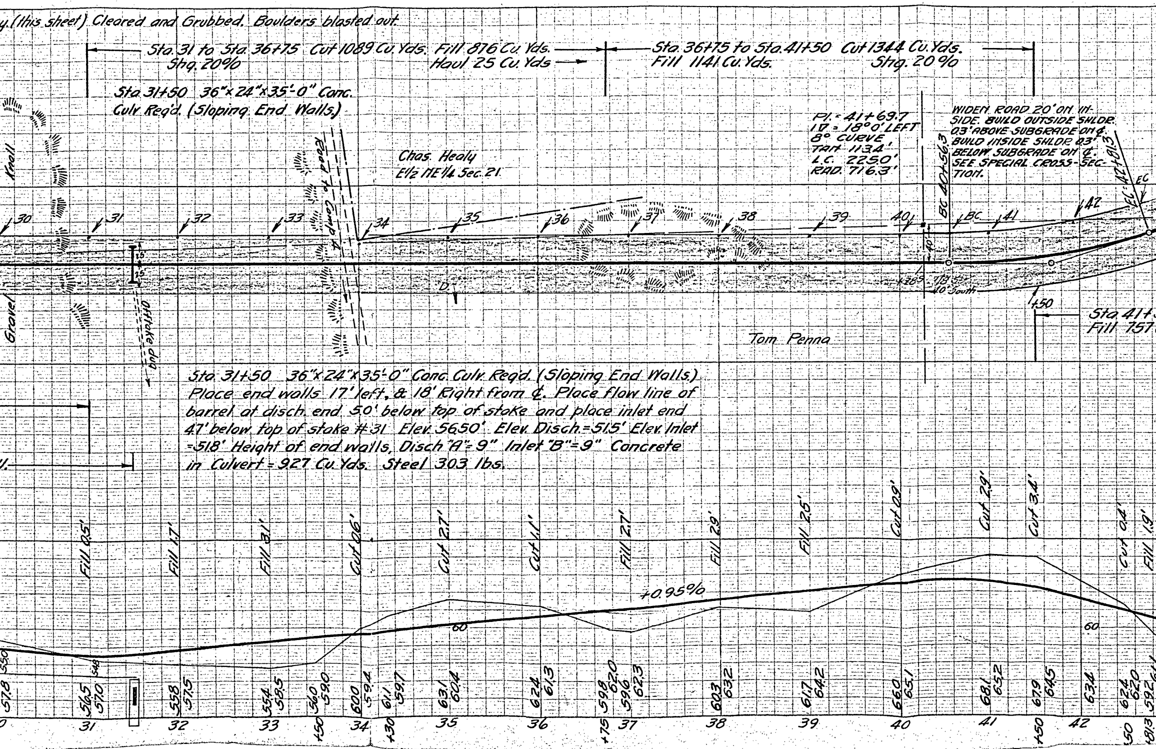
Sta. 31 to Sta. 36+75 Cut 1089 Cu. Yds. Fill 876 Cu. Yds.
Shg. 20% Haul 25 Cu. Yds

Sta. 36+75 to Sta. 41+50 Cut 1344 Cu. Yds.
Fill 1141 Cu. Yds. Shg. 20%

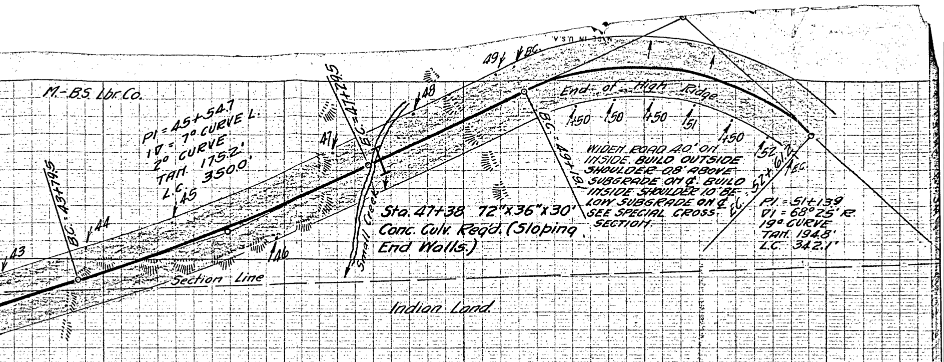
Sta. 31+50 36"x24"x35'-0" Conc.
Culv. Req'd. (Sloping End Walls)

PI. = 41+69.7
I∇ = 18°0' LEFT
8° CURVE
TAN 113.4'
L.C. 225.0'
RAD. 716.3'

WIDEN ROAD 2.0' ON INSIDE. BUILD OUTSIDE SHLDR. 0.3' ABOVE SUBGRADE ON ℄. BUILD INSIDE SHLDR 0.3' BELOW SUBGRADE ON ℄. SEE SPECIAL CROSS-SECTION.


Knoll
Gravel
Road to Camp 4
Offtake dug
15
25
Chas. Healy
E1/2 NE1/4 Sec. 21
D.
Tom Penna
30
31
32
33
34
35
36
37
38
39
40
BC
41
42
BC 40+56.3
EC 42+81.3
EC
40
+26
118
40 South
+50
Sta. 41+
Fill 757
Fill 0.5'
Fill 1.7'
Fill 3.1'
Cut 0.6'
Cut 2.7'
Cut 1.1'
Fill 2.7'
Fill 2.9'
Fill 2.5'
Cut 0.9'
Cut 2.9'
Cut 3.4'
Cut 0.4'
Fill 1.9'
+0.95%
60
60
55.0
54.8
57.8
56.5
57.0
55.8
57.5
55.4
58.5
56.0
59.0
60.0
59.4
61.1
59.7
63.1
60.4
62.4
61.3
59.8
62.0
59.6
62.3
60.3
63.2
61.7
64.2
66.0
65.1
68.1
65.2
67.9
64.5
63.4
62.4
62.0
59.2
31
32
33
+50
34
+30
35
36
+75
37
38
39
40
41
+50
42
50
+81.3

Sta. 31+50 36"x24"x35'-0" Conc. Culv. Req'd. (Sloping End Walls) Place end walls 17' left, & 18' Right from ℄. Place flow line of barrel at disch. end 50' below top of stake and place inlet end 47' below top of stake #31 Elev. 5650' Elev. Disch.=51.5' Elev. Inlet =51.8' Height of end walls, Disch "A"=9" Inlet "B"=9" Concrete in Culvert=9.27 Cu. Yds. Steel 303 lbs.

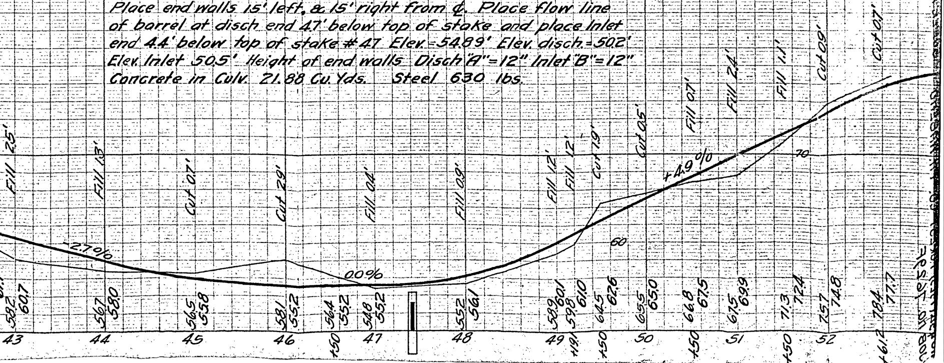

M.-B.S. Lbr.Co.
PI = 45+54.7
IΔ = 7° CURVE L.
2° CURVE
TAN. 175.2'
L.C. 350.0'
B.C. = 43+79.5
E.C. = 47+29.5
43
44
45
46
47
48
49
BC.
End of High Ridge
B.C. 49+19.1
+50
50
+50
51
+50
52
E.C. 52+61.2
EC.
PI. = 51+13.9
ΔI = 68°25' R.
19° CURVE
TAN. 194.8'
L.C. 342.1'
Small Creek
Section Line
Indian Land

Sta. 47+38 72"x36"x30' Conc. Culv. Req'd. (Sloping End Walls.)

WIDEN ROAD 4.0' ON INSIDE. BUILD OUTSIDE SHOULDER 0.8' ABOVE SUBGRADE ON ℄. BUILD INSIDE SHOULDER 1.0' BELOW SUBGRADE ON ℄ SEE SPECIAL CROSS SECTION.

50 to Sta 46+50 Cut 1063 Cu.Yds.
Cu.Yds. Shg. 20% Haul 155 Cu.Yds.

Sta. 46+50 to Sta 52+61.2 Cut 594 Cu.Yds. Fill 628 Cu.Yd.
Shg. 20%

Sta. 47+38 72"x36"x30'-0" Conc. Culv. Req'd. (Sloping End Walls.) Place end walls 15' left, & 15' right from ℄. Place flow line of barrel at disch end 4.7' below top of stake and place Inlet end 4.4' below top of stake #47 Elev. = 54.89' Elev. disch. = 50.2' Elev. Inlet 50.5' Height of end walls Disch "A" = 12" Inlet "B" = 12" Concrete in Culv. 21.88 Cu.Yds. Steel 630 lbs.