CS 66-55 S1040 (1)

BM #1 Elev. 944.01
Spike & washer in root of clump of Maples 40' L of Sta. 0+00

PC Sta. 0+00 - 1" Stake
N 40° W - 39.1' - S&W in 4" Maples
N 10° E - 31.05' - S&W in 5" Maple
N 66° E - 26.3' - S&W in 6" Maple

Δ: 73°-05' R
D: 17°-00'
T: 230.7'
E: 82.8'
L: 429.9'
PC: 0+00
PI: 2+30.7
PT: 4+29.9
Superelevate 0.07' per Ft.
Rotate 10' Lt. Of ℄

PI Sta. 2+30.7 - ¾" Iron pipe
N 80° W - 31.1' - S&W in 8" Birch
N 60° E - 32.05' - S&W in 12" Aspen
S 22° W - 29.15' - S&W in 6" Maple

Δ: 18°-57' R
D: 9°-00'
T: 106.4'
E: 6.8'
L: 210.6'
PC: 9+63.6
PI: 10+70.0
PT: 11+74.2
Superelevate 0.07' per Ft.
Rotate 10' Lt. Of ℄

PI Sta. 10+70 - ¾" Iron pipe
N 10° W - 38.0' - R. Nail in 20" Aspen
N 90° E - 40.1' - R. Nail in 8" Maple
S 0° E - 38.5' - R. Nail in 12" Aspen

BM #2 Elev. 946.12
Spike & washer in root of 8" Maple 32' L of Sta. 10+30

Δ: 20°-09' L
D: 9°-00'
T: 113.2'
E: 10.0'
L: 223.9'
PC: 13+23.6
PI: 14+36.8
PT: 15+47.5
Superelevate 0.07' per Ft.
Rotate 10 Ft. Of ℄

PI Sta. 14+36.8 - ¾" Iron pipe
N 05° W - 36.8' - S&W in 8" Poplar
S 32° E - 41.1' - S&W in 10" Elm
S 68° E - 43.5' - S&W in 6" Poplar

BM #3 Elev. 959.10
Spike & washer in. root of 15" Spruce 46' L of Sta. 19+00

Δ: 51°-06' R
D: 9°-00'
T: 304.6'
E: 69.0'
L: 567.8'
PC: 16+72.7
PI: 19+77.3
PT: 22+40.5
Superelevate 0.07' per Ft.
Rotate 10' Lt. Of ℄

PI Sta. 19+77.3 - ¾" Iron pipe
N 43° E - 41.0' - R. Nail in 24" W. Pine
S 36° E - 49.8' - R. Nail in Maples
S 20° W - 30.9' - R. Nail in 14" Maple

BM #4 Elev. 966.94
Spike & washer in root of 18" Balsam 30' R of Sta. 28+52

Δ: 24°-26' L
D: 11°-00'
T: 113.0'
E: 12.1'
L: 222.1
PC: 25+69.3
PI: 26+82.3
PT: 27+91.4
Superelevate 0.07' per Ft.
Rotate 10' Rt. Of ℄

PI Sta. 26+82.3 - ¾" Iron pipe
N 30° W - 49.1' - R. Nail in 16" Basswood
N 20° E - 38.6' - R. Nail in 24" Maple
S 20° W - 51.8' - R. Nail in 10" Elm

Hibbing Sandy Loam
Bergland Silt Loam
Watton Silt Loam
Watton Loam

¼ Section corner
Future ℄
520'
1650'
Grade & Surface Approach
100 cyds. Emb.
40 tons Agg. Surf.
BM
PC Sta. 0+00
Place Project marker S1040(1)
N
S 43° E

In Place, 50' Of 18" CMP Culvert With Headwalls 26' L - 24' R
In Place, 46' Of 18" CMP Culvert With Headwalls 22' L - 24' R
In Place, 44' Of 24" CMP Culvert With Headwalls 22' L - 22' R
In Place, 50' Of 18" CMP Culvert With Headwalls 25' L - 25' R

Complete the Grading, Subbase and place Aggregate Surface

Fill Section 1 on 4 Slopes
1.5' R.B. Ditch 1.5' below Shoulder
Independent 1.5' R.B. Ditch
Fill Section 1 on 4 Slopes
1.5' R.B. Ditch 1.5' Below Shoulder 1 on 1 B.S.
Fill Section 1 on 4 Slopes

Profile Top of Metal Grade
Left Ditch Line
Rt. ditch Line
(1) Guard post
L.F.L. Elev. 940.4
L.F.L. Elev. 946.7
L.F.L. Elev. 956.7
R.F.L. Elev. 940.3
R.F.L. Elev. 947.7
R.F.L. 957.1
Elev. 947.60
Elev. 945.00
Elev. 951.00
Elev. 950.00
Elev. 961.00
Elev. 964.60
Elev 942.8
+0.50%
-0.29%
+1.50%
0.38%
+3.15%
+0.54%
-5.6%
200' V.C.
300' V.C.
400' V.C.
W.T.
Borrow 1884 Cyds.
Emb. 1345 Cyds.
Shr. 540 Cyds.
O'haul 2751 Comp. Cyd. mi.
To Sta. 29+13

Sta.	Ground	Grade
-4+00	944.1	946.10
-3+00	944.1	946.60
-2+00	944.1	947.10
-1+00	944.6	947.40
0+00	944.6	947.31
1+00	943.4	947.02
2+00	942.4	946.13
3+00	942.6	946.44
4+00	943.8	946.15
5+00	944.4	945.86
6+00	944.0	945.57
7+00	943.7	945.35
8+00	941.8	945.61
9+00	940.8	946.31
10+00	943.0	948.00
11+00	943.8	949.50
12+00	945.9	950.63
13+00	945.3	950.69
14+00	948.9	950.41
15+00	950.1	951.91
16+00	952.3	955.25
17+00	957.2	958.26
18+00	956.0	959.64
19+00	958.7	960.06
20+00	958.1	960.66
21+00	957.4	961.16
22+00	955.5	961.70
23+00	958.4	962.20
24+00	959.8	962.76
25+00	961.3	963.44
26+00	962.2	964.48
27+00		

NO.	DATE	BY
1		
2		
3		

REVISIONS 4 5 6

DRAWN BY	B.H.S.
TRACED BY	
CHECKED BY	R.C.B.
DATE	18 Feb 1953

REVIEWED BY SECTIONS		DATE	APPROVED BY
ARCHITECTURAL	J.I.R.	2-27-53	
ENGINEERING	H.O.K.	11-24-53	ASSISTANT CHIEF IN CHARGE
LANDSCAPE	J.I.R.	12-27-53	OF DESIGN DATE 12-28-53

MICHIGAN
DEPARTMENT OF CONSERVATION
PARKS AND RECREATION DIVISION

PORCUPINE MOUNTAINS STATE PARK
SOUTH BOUNDARY ROAD
Scale: Hor. 1"=100' Ver. 1"=10'

SHEET NO. 3 OF 14

PLAN NO. E-109