



CONTROL POINTS

POINT	AZIMUTH	DISTANCE	COORDINATES	
			N	E
P-14	178°21'	226.7	9,201.5	19,760.1
P-15	213°36'	236.5	9,427.8	19,753.6
P-16	244°31'	187.2	9,624.3	19,885.4
P-17	169°16'	300.6	10,000.0	20,000.0
P-18	88°01'	402.1	9,986.2	19,597.0
P-19	23°29'	266.1	9,742.8	19,490.6
P-20	36°02'	241.9	9,547.7	19,347.9
P-21	136°15'	152.8	9,662.0	19,245.8
P-22				

CULVERT SCHEDULE

CULV.	STATION	SIZE	GAGE	LGTH	INVERT ELEV.	
					INLET	OUTLET
A	12+40A	29" X 18"	14	40'	1197.3	1197.0
B	6+80B	22" X 13"	16	30'	1209.7	1209.2
C	0+85C	18" X 11"	16	24'	1212.1	1211.5
D	7+00C	23" X 16"	16	24'	1208.0	1201.5
E	15+20A	22" X 13"	16	15'	1200.3	1200.0
F	15+20C	18" X 11"	16	15'	1207.2	1206.8

NOTES

- Elevations refer to Corps of Engineers Datum - Gage zero EL 1190.00.
- Location of facilities within the camping area may be adjusted to fit existing field conditions.
- For county and access road profiles and sections A-A, B-B, C-C, F-F, G-G & H-H, see Dwg. M 40a-P-3/10.
- For circulation road, profile, tent trailer pad plan and sections, see Dwg. M 40a-P-3/9.
- For outdoor privies layout and sections, and turnaround parking areas, drainage ditch, portage path, and walkway sections, and guard post and canoe docking facilities details see Dwg. M 40a-P-3/10.
- For boat launching ramp profile and details see Dwg. M 40a-P-3/11.
- For outdoor privies details see Dwg. M 40a-P-3/11.
- Privies should not be any closer than 100' from any tent-trailer pad or 50' from existing well.

DRAWING SCHEDULE

DRAWING NUMBER	SHEET NUMBER	SHEET TITLE
M 40a-P-3/7	1	PLAN - CAMPING & BOATING FACILITIES LAYOUT
M 40a-P-3/8	2	PROFILES & SECTIONS - COUNTY & ACCESS ROADS
M 40a-P-3/9	3	SECTIONS & DETAILS - CAMP AREA
M 40a-P-3/10	4	SECTIONS & DETAILS - MISCELLANEOUS
M 40a-P-3/11	5	SECTIONS & DETAILS - BOAT LAUNCHING RAMP
M 40a-P-3/12	6	PLAN & DETAILS - OUTDOOR PRIVIES

COUNTY ROAD NO. 105

POINT	AZIMUTH	DISTANCE	COORDINATES		CURVE DATA			
			N	E	Δ	R	T	L
0+00 P-18	0° 32'	933.7	10,000.0	20,000.0				
PI-A	106° 41'	1097.2	9,066.4	19,991.3	106° 03'	300.0	399.2	555.8
PT-B			9,381.4	18,940.3				

ACCESS ROAD

POINT	AZIMUTH	DISTANCE	COORDINATES		CURVE DATA			
			N	E	Δ	R	T	L
15+73A-0+00	106° 41'	140.0	9,305.2	19,194.4				
PI-1	212° 07'	353.0	9,345.4	19,060.3	105° 26'	106.6	140.0	196.2
PI-2	243° 53'	52.0	9,644.4	19,248.0	31° 46'	105.4	30.0	58.5
PI-a	231° 39'	68.0	9,667.3	19,294.7	12° 14'	205.3	22.0	43.8
PI-3	203° 13'	87.0	9,709.5	19,348.0	28° 26'	181.6	46.0	90.1
PI-m	203° 13'	68.0	9,789.5	19,382.3				
PI-4	186° 00'	77.0	9,852.0	19,409.1	23° 13'	292.1	60.0	118.4
TURNAROUNDS			9,929.0	19,409.1				

CIRCULATION ROAD

POINT	AZIMUTH	DISTANCE	COORDINATES		CURVE DATA			
			N	E	Δ	R	T	L
PI-a	285° 01'	90.0	9,667.3	19,294.7	41° 38'	127.6	48.5	92.7
PI-b	335° 33'	107.8	9,644.0	19,381.6	58° 32'	84.7	40.0	74.7
PI-c	44° 00'	81.0	9,545.9	19,426.2	66° 27'	60.3	41.0	72.0
PI-d	356° 03'	100.0	9,487.6	19,369.9	47° 57'	89.9	40.0	75.3
PI-e	281° 04'	401.9	9,387.8	19,376.8	74° 59'	78.2	60.0	102.4
PI-f	223° 47'	100.0	9,310.6	19,771.2	57° 17'	91.5	50.0	91.4
PI-g	167° 28'	221.1	9,382.8	19,840.4	56° 19'	93.4	50.0	91.8
PI-h	203° 22'	176.0	9,598.6	19,792.4	35° 54'	246.9	80.0	154.7
PI-i	128° 06'	100.1	9,760.2	19,662.2	75° 16'	64.8	50.0	85.2
PI-j	77° 35'	204.1	9,922.0	19,783.4	50° 31'	105.0	50.0	93.4
PI-k	93° 14'	202.1	9,778.1	19,584.1	15° 39'	727.7	100.0	196.6
PI-m			9,789.5	19,382.3	70° 01'	57.1	40.0	69.6

THIS DRAWING HAS BEEN REDUCED TO ONE-HALF THE ORIGINAL SCALE



U. S. ARMY ENGINEER DISTRICT, ST. PAUL
CORPS OF ENGINEERS
ST. PAUL, MINNESOTA

DESIGNED BY: F.J.H.
 DRAWN BY: D.L.P.
 CHECKED BY: J.W.K.
 SUBMITTED BY: [Signature]
 APPROVED: [Signature]
 COL., CORPS OF ENGINEERS

DESCRIPTION: MISSISSIPPI RIVER HEADWATERS RESERVOIR, GULL LAKE DAM AND RESERVOIR
 GULL LAKE RECREATION FACILITIES
 PLAN - CAMPING & BOATING FACILITIES LAYOUT

DATE: 14 JUNE 1968

SCALE: AS SHOWN, DACW 37 68 8-0064
 DRAWING NUMBER: M 40a-P-3/7
 SHEET 1 OF 6