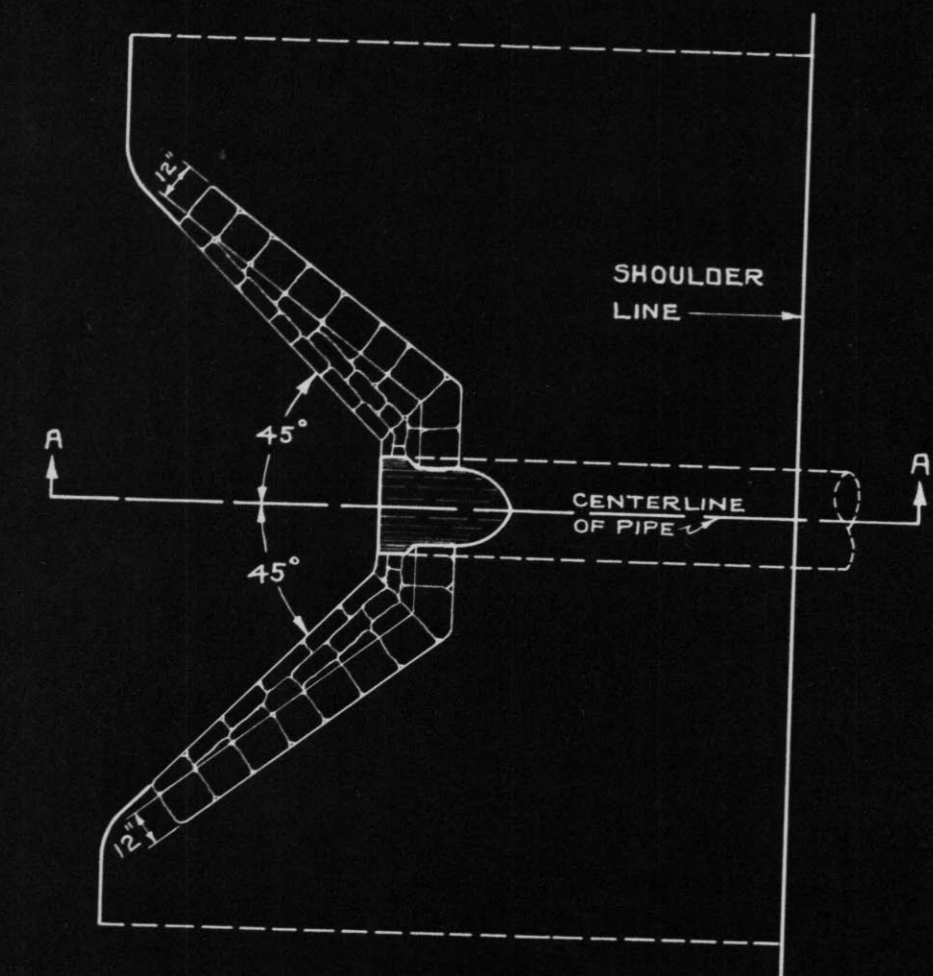


GUARD FENCE SECTION

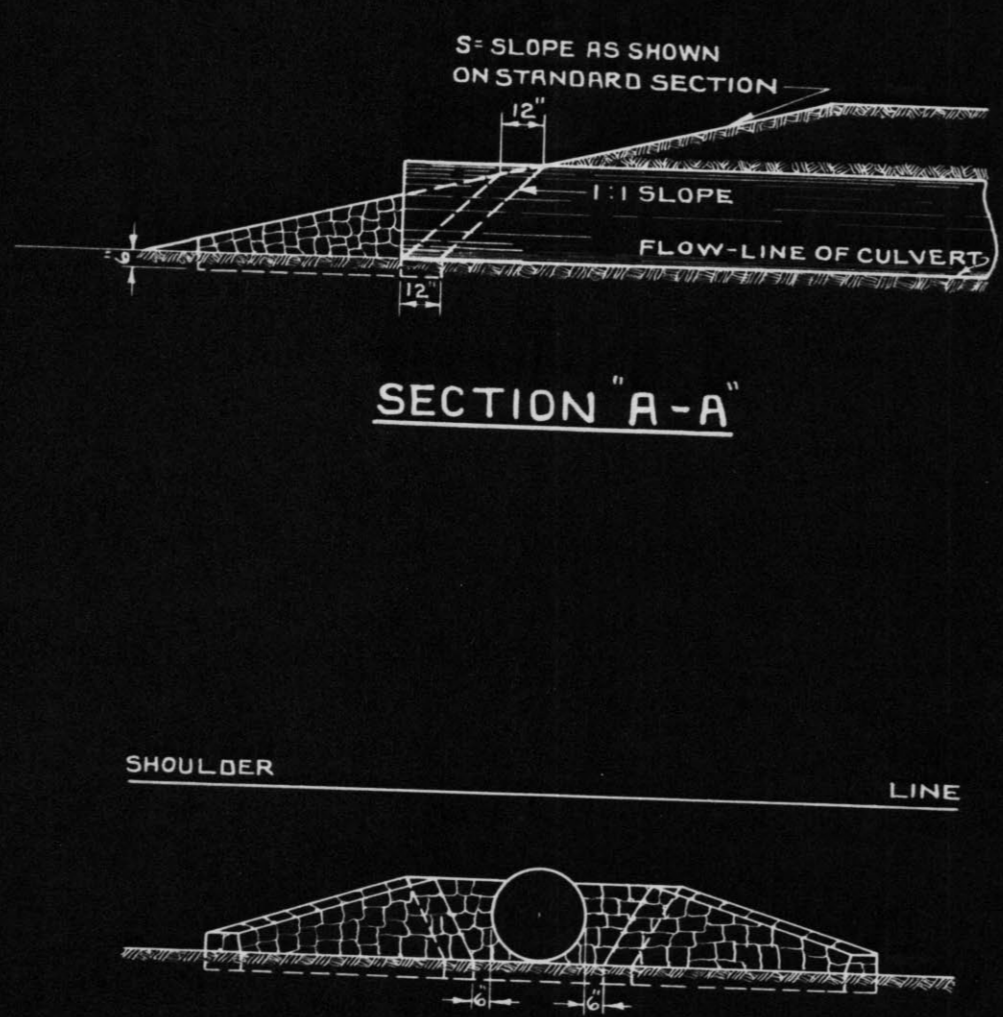
TYPICAL CROSS SECTIONS

NOTE:
 SUPERELEVATION TO BE 0.015 FT. PER DEGREE OF CURVE PER FOOT OF WIDTH. MAX. = 0.10 FT. PER FT. OMIT CROWN ON SUBGRADE ON SUPERELEVATED CURVES.



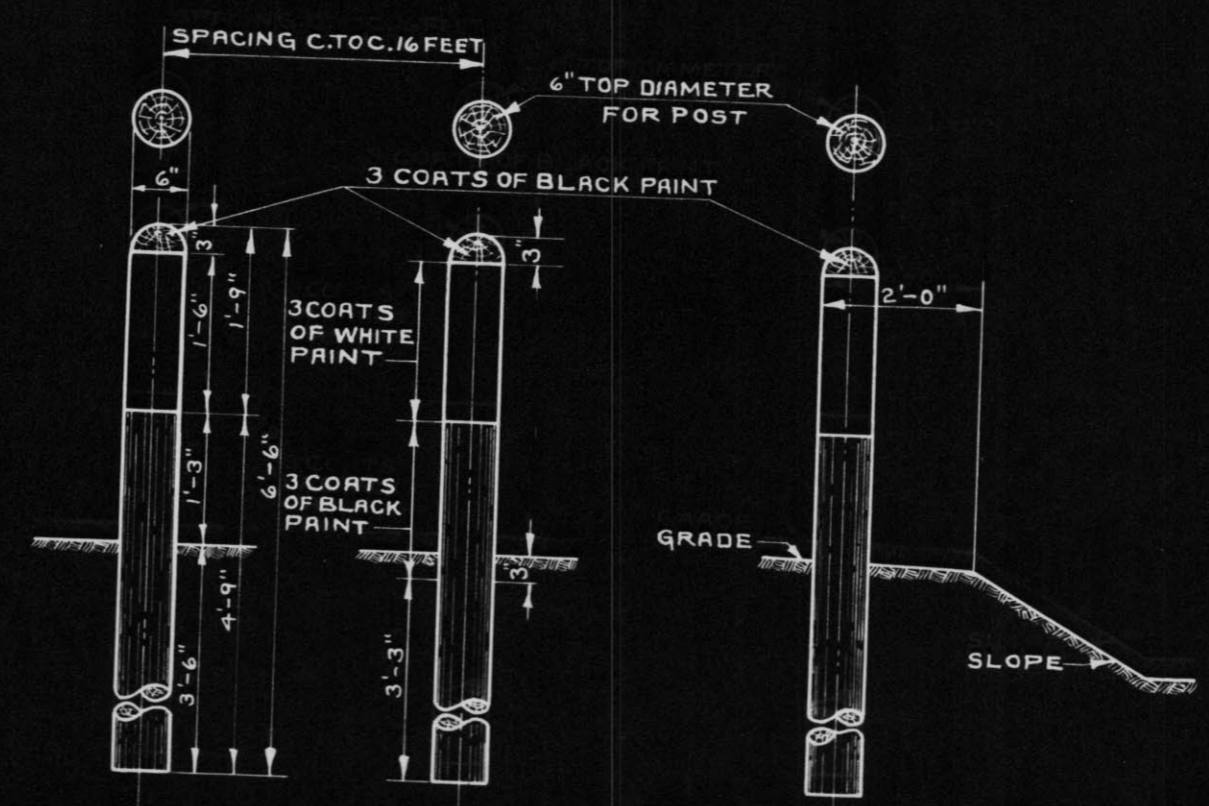
PLAN

DETAILS SHOWING RIP RAP AT PIPE CULVERTS



SECTION "A-A"

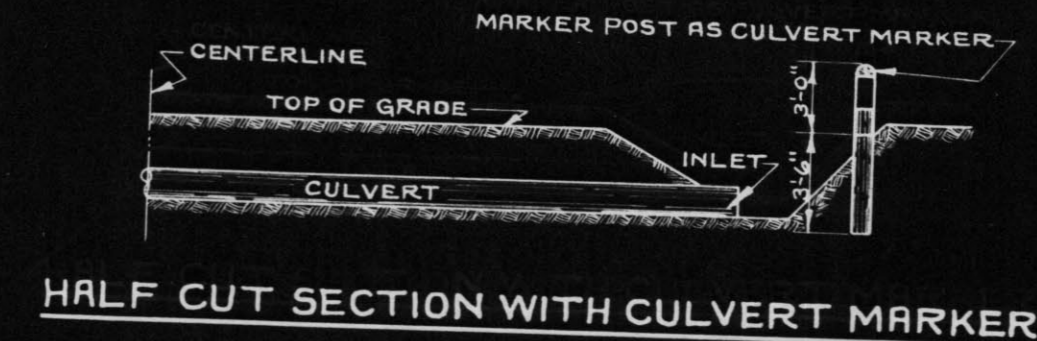
END VIEW



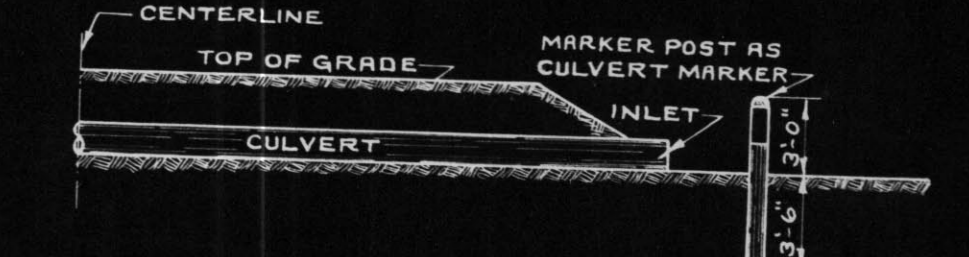
ELEVATION SHOWING SPACING

ELEVATION SHOWING LOCATION ON ROAD SHOULDER

DETAILS OF GUARD POSTS



HALF CUT SECTION WITH CULVERT MARKER



HALF FILL SECTION WITH CULVERT MARKER

DETAILS OF MARKER POSTS

NOTE:
 MARKER POST AS CULVERT MARKER TO BE PLACED AT INLET END OF CULVERT. PLACE POST CLEAR OF CHANNEL. IN CUT, PLACE POST ON BACK SLOPE.

GENERAL NOTES

TOP OF POST SHALL BE NEATLY ROUNDED. POSTS TO BE CUT AND MANUFACTURED FROM LIVE, GREEN, SEASONED NORTHERN WHITE CEDAR. PAINT AND APPLICATION SHALL CONFORM TO PERTINENT SPECS. PORTION OF POST TO BE PAINTED SHALL BE SHAVED TO THE WHITE BEFORE PAINTING.

ESTIMATE OF QUANTITIES

EARTHWORK

STATION TO STATION	CLEARING	GRUBBING	EXCAVATION			
			COMMON	SURPLUS	ROCK	BORROW
0+00 - 77+00	10.35	10.35				
0+00 - 3+00			330			
3+00 - 7+00			681			
7+00 - 13+00			1320			
13+00 - 18+00			443			
18+00 - 26+40			2048	1696		
26+40 - 28+40			402			
28+40 - 32+40			806			
32+40 - 35+40			1048			
35+40 - 40+15			1761			
40+15 - 49+00			1945			
49+00 - 55+00			0			
SIDE RD. CONN. 50+31						7567
55+00 - 62+50			70			300
62+50 - 67+00			0			960
67+00 - 70+75			0			7894
70+75 - 72+50			528		2	
72+50 - 75+00			445			48
75+00 - 80+00			482		8	1112
			820			132
TOTALS	10.35	10.35	13129	1696	10	19013

DRAINAGE STRUCTURES

STATION	CULVERT PIPE - LINEAR FEET					MARKER POSTS	RIP-RAP CU. YDS.
	15" DIA.	18" DIA.	24" DIA.	30" DIA.	36" DIA.		
8+40				50		1	2
32+60			60			1	2
38+70	60					1	2
43+00	50					1	2
50+00			72			1	2
53+00		48				1	2
60+30		36				1	2
64+00				86		1	2
73+65		60				1	2
76+00	50					1	2
TOTALS	160	144	132	50	86	10	20

GUARD POSTS

STATION TO STATION	LOCATION - LEFT OR RIGHT	POSTS
49+50 - 53+00	LEFT	21
50+00 - 53+00	RIGHT	22
62+50 - 65+50	LEFT	19
63+50 - 65+50	RIGHT	13
TOTALS		75

WISCONSIN PUBLIC SERVICE CORPORATION

TYPICAL CROSS SECTIONS AND CONSTRUCTION DETAILS FOR GRANDFATHER FALLS HIGHWAY RELOCATION.

TABLE OF REVISIONS
 No. DESCRIPTION APP'D. DRAWN BY: K.S. APPROVED BY: G.C.C.
 TRACED BY: K.S. DATE: JAN. 26, 1938
 CHECKED BY: L.H.K. SCALE: NONE.

DD-2510-1