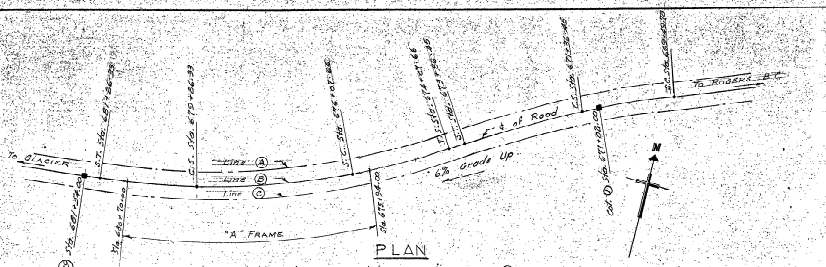
LAYOUT DATA

Col. No	Along Line (A) Station	* Elevation	Ctr. to Ctr. Col.	Deflection Angle	Along Line (C) Ctr. to Ctr. of Col.	* Elevation	Along Line (A) Ctr. to Ctr. of Beams Opposite Each	* Elevation
75 m	679+94.00	3910.14	6'-0					3908.96
76	680+00.00	10.50	6'-0	0° 39' 54"	12'-0 5/16	3911.46	11'-9 1/2	09.37
76 m	+06.00	10.86	6'-0					09.79
77	+12.00	11.22	6'-0	0° 32' 41"	12'-0 5/16	12.00	11'-9 1/2	10.19
77 m	+18.00	11.58	6'-0					10.60
78	+24.00	11.94	6'-0	0° 26' 11"	12'-1 1/16	12.76	11'-9 3/4	11.02
78 m	+30.00	12.30	6'-0					11.43
79	+36.00	12.66	6'-0	0° 20' 24"	12'-1 1/16	13.35	11'-10	11.84
79 m	+42.00	13.02	6'-0					12.25
80	+48.00	13.38	6'-0	0° 15' 20"	12'-1 1/2	13.98	11'-10 1/4	12.66
80 m	+54.00	13.74	6'-0					13.00
81	+60.00	14.10	6'-0	0° 11' 00"	12'-1 1/2	14.66	11'-10 1/4	13.44
81 m	+65.00	14.40	5'-0					13.74
82 a	+70.00	14.70	5'-0		10'-0 7/16	15.26	9'-10 11/16	14.04
82 Equiv. Col.	+72.00	14.82		0° 07' 23"		15.30		14.16
82 b	+74.00	14.94	4'-0		4'-0 5/16	15.50	3'-11 5/8	14.28
82 m	+79.00	15.24	5'-0					14.58
83	+84.00	15.54	5'-0	0° 04' 39"	10'-0 11/16	16.10	9'-11 1/4	14.88
83 m	+90.00	15.90	6'-0					15.24
84	+96.00	16.26	6'-0	0° 02' 18"	12'-0 5/8	16.82	11'-11 1/4	15.60
84 m	681+02.00	16.62	6'-0					15.96
85	+08.00	16.98	6'-0	0° 00' 20"	12'-0 5/16	17.54	11'-11 1/8	16.32
85 m	+14.00	17.34	6'-0					16.68
86	+20.00	17.70	6'-0	0° 00' 06"	12'-0 3/16	18.06	11'-11 3/4	17.04
86 m	+26.00	18.06	6'-0					17.40
S.T.	+66.33							
87	+32.00	18.42	6'-0		18'-0	18.98	13'-0	17.76
87 m	+38.00	18.78	6'-0					18.12
88	+44.00	19.14	6'-0		12'-0	19.70	12'-0	18.48
88 m	+49.00	19.44	5'-0					18.78
89	681+54.00	3919.74	5'-0		10'-0	3920.30	10'-0	3919.08

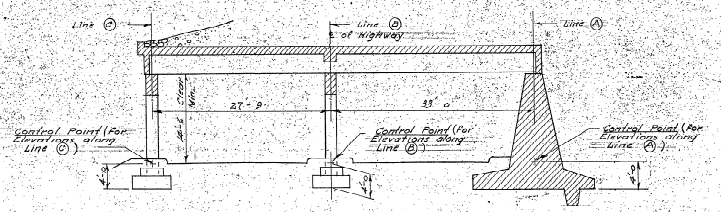
* ELEVATIONS are given to the Control Points shown on Typical Cross Section.



PLAN

SHOWING ℄ OF ROAD — LINE (B)

Scale 1" = 100'-0

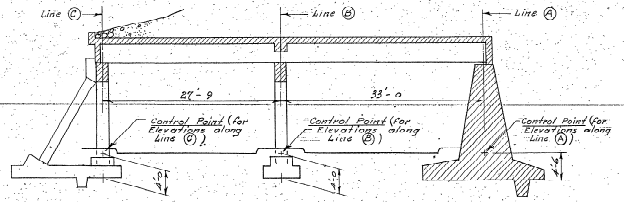


TYPICAL CROSS SECTION

FOR COLUMNS (1) to (82)

FOR COLUMNS (82a) to (89)

Scale 3/8" = 1'-0

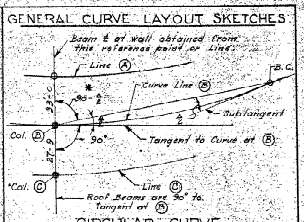


SECTION THROUGH "A" FRAME

FOR COLUMNS (82a) to (82)

Scale 1/8" = 1'-0

GENERAL CURVE LAYOUT SKETCHES

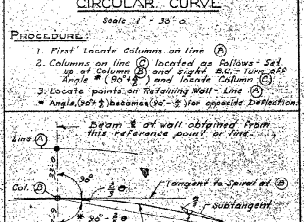


CIRCULAR CURVE

Scale 1" = 30'-0

PROCEDURE

1. First locate columns on line (B).
2. Columns on line (C) located as follows - Set up at Column (B) and sight P.C. - turn 90° Angle * (90° ± ℄) and locate Column (C).
3. Locate points on Retaining Wall - Line (A) * Angle (90° ± ℄) becomes (90° ∓ ℄) for opposite Deflection.



SPIRAL CURVE

Scale 1" = 30'-0

PROCEDURE

1. First locate columns on line (B).
2. Columns on line (C) located as follows. Set up at Column (B) and sight T.S. Turn the angle (90° ± ℄) and locate Col. (C).
3. Locate points on Retaining Wall - Line (A) * Angle 90° ± ℄ becomes 90° ∓ ℄ for opposite Deflection.

ROOF BEAM SPACING

1. A roof beam is located over each column on line (B) and (C) and is located at the wall on line (A) on extension of the line joining the columns.
2. The intermediate roof beams are located equidistant between the column spacings on line (C) and line (A) and over columns with suffix "m" on line (B).

† Columns designated "a" and "b" located at double footings.

‡ Columns designated "m" are located on Line (B) ONLY.

NO.	REVISIONS	NAME	DATE

DEPARTMENT OF PUBLIC WORKS

CANADA

DEVELOPMENT ENGINEERING BRANCH

STRUCTURES DIVISION

TUPPER #2 SNOWSHED

T.C.H. Mi. 10.99

GLACIER NATIONAL PARK

GEOMETRICAL LAYOUT

ELEVATION & CURVE DATA

JOB SUPERVISOR S. STAMER	DESIGN		CHECK J.T.D.
APPROVED	DATE 2/10/61	DRAWN L.B.P.	CHECK
		TRACING	CHECK

Geo. H. Fraser
CHIEF-STRUCTURES DIVISION

APPROVED DATE 2.10.61

CHIEF ENGINEER

PROJECT NO. S.D. 107

SHEET 13 OF 24

AA002351