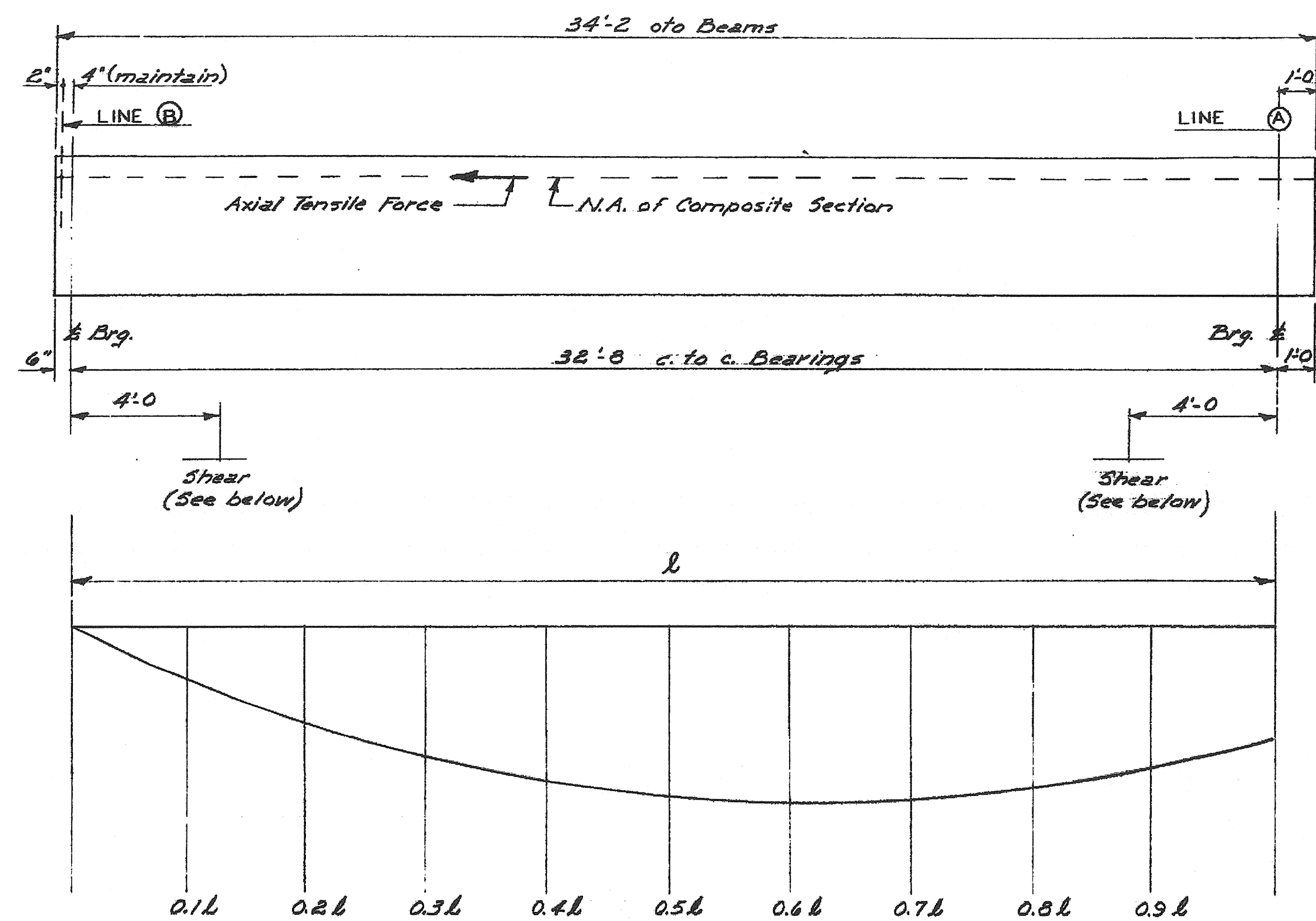


BEAM TYPE	BRG. TYPE
U1	K
U2	M
U3	P

SEE DWG. P4



TYPICAL MOMENT DIAGRAM

	LINE (B)	C.BRG.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	C.BRG.	LINE (A)
DEAD LOAD MOMENT	0		312	571	777	924	1004	1014	949	801	572		254
LIVE LOAD MOMENT	0		287	521	702	828	891	903	852	729	552		307
TOTAL MOMENT	0		599	1092	1479	1752	1895	1917	1801	1530	1124		561
DEAD LOAD AXIAL TENSILE FORCE	0		5	10	15	20	25	30	35	40	45		50
LIVE LOAD AXIAL TENSILE FORCE	35		39	43	47	51	55	59	63	67	71		76
TOTAL AXIAL TENSILE FORCE	35		44	53	62	71	80	89	98	107	116		126
DEAD LOAD REACTION	116												132
LIVE LOAD REACTION	114												95
TOTAL REACTION	230												227
DEAD LOAD SHEAR			96								86		
LIVE LOAD SHEAR			95								64		
TOTAL SHEAR			191								150		

	C.BRG.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	C.BRG.
DEAD LOAD MOMENT	0	343	629	854	1012	1099	1110	1036	878	627	277
LIVE LOAD MOMENT	0	314	570	768	911	996	1016	968	860	670	400
TOTAL MOMENT	0	657	1199	1622	1923	2095	2126	2004	1738	1297	677
DEAD LOAD AXIAL TENSILE FORCE	0	5	11	16	22	27	33	38	44	49	55
LIVE LOAD AXIAL TENSILE FORCE	50	55	60	65	70	75	80	85	90	95	101
TOTAL AXIAL TENSILE FORCE	50	60	71	81	92	102	113	123	134	144	156
DEAD LOAD REACTION	125										132
LIVE LOAD REACTION	143										109
TOTAL REACTION	268										241
DEAD LOAD SHEAR		105								86	
LIVE LOAD SHEAR		118								75	
TOTAL SHEAR		223								161	

	C.BRG.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	C.BRG.
DEAD LOAD MOMENT	0	303	553	750	888	959	960	886	729	491	161
LIVE LOAD MOMENT	0	162	288	393	465	504	518	491	431	344	228
TOTAL MOMENT	0	465	841	1143	1353	1463	1478	1377	1160	835	389
DEAD LOAD AXIAL TENSILE FORCE	0	3	6	9	12	15	18	21	24	27	30
LIVE LOAD AXIAL TENSILE FORCE	27	30	33	36	39	42	45	48	51	54	58
TOTAL AXIAL TENSILE FORCE	27	33	39	45	51	57	63	69	75	81	88
DEAD LOAD REACTION	108										132
LIVE LOAD REACTION	63										49
TOTAL REACTION	171										181
DEAD LOAD SHEAR		88								86	
LIVE LOAD SHEAR		53								34	
TOTAL SHEAR		141								120	

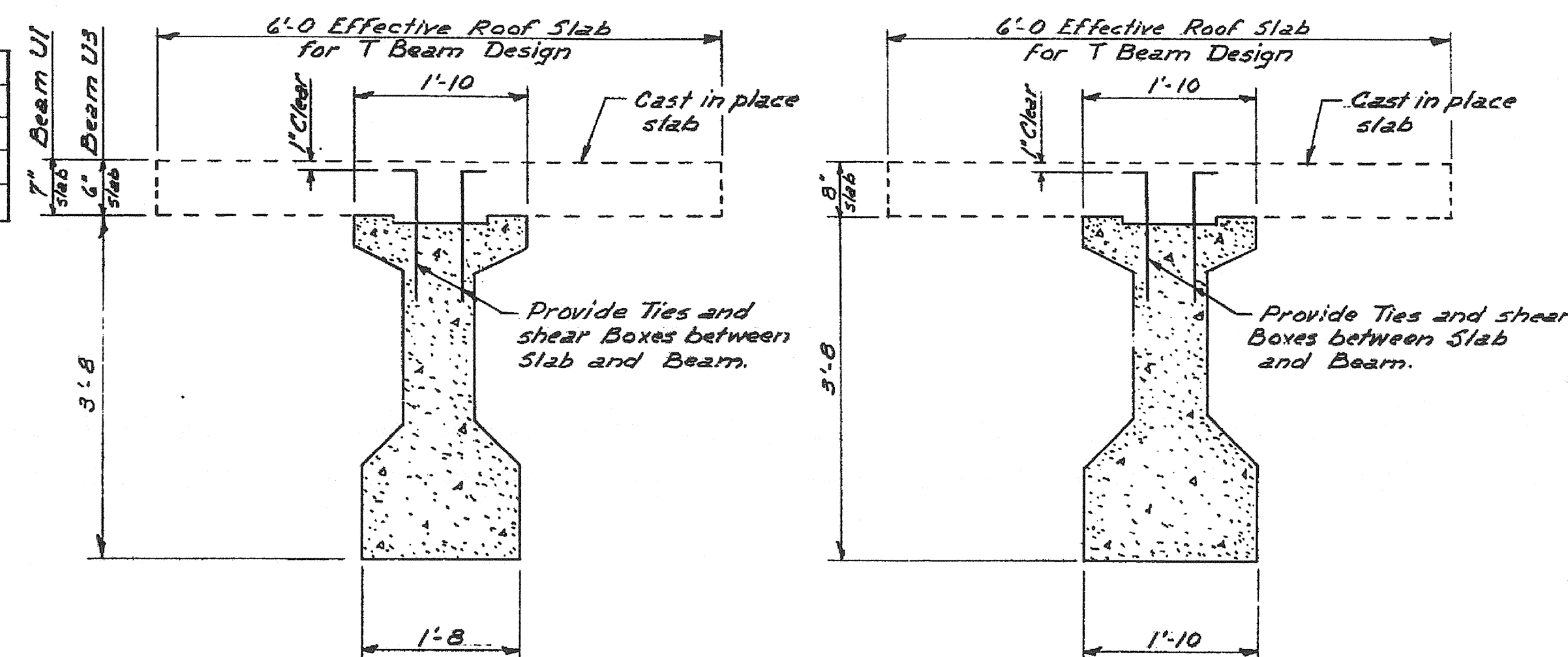
DESIGN FORCES
MOMENT IN FT. KIPS
FORCES IN KIPS

NOTE TO FABRICATOR

1. Weight of Beam and Slab are not included in values of moments, reactions and shears shown.

BEAM TYPE	BRG. TYPE
U1	L
U2	N
U3	Q

SEE DWG. P4

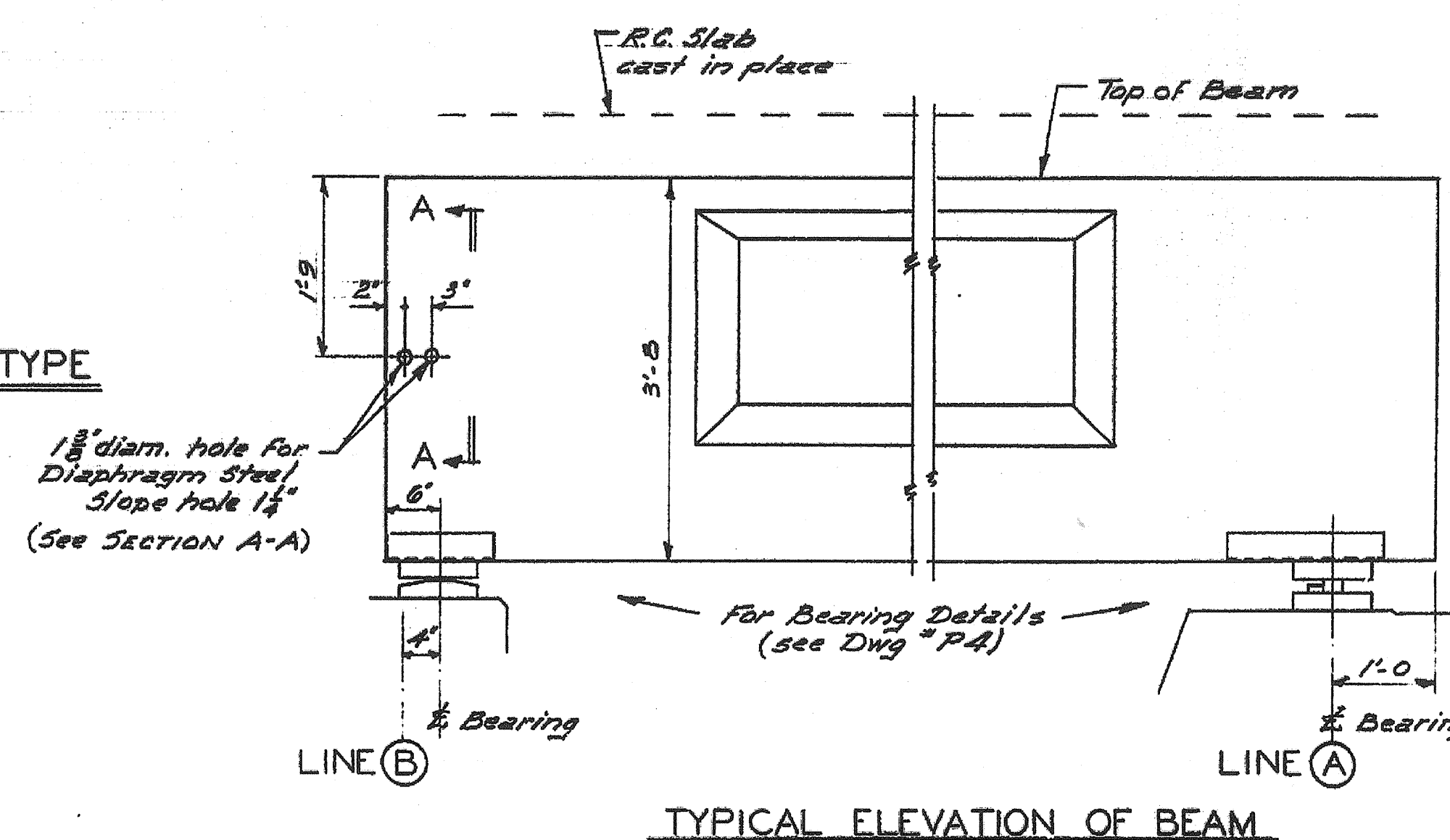


NOTE: Dimensions shown to be maintained.

U1 BEAM TYPE

U2 BEAM TYPE

U3 BEAM TYPE



NOTE: Location of holes may be altered to suit Beam Steel, but shall be submitted for approval.

PRESTRESSED - PRECAST CONCRETE BEAMS

NOTES:

- Specifications - Tentative Recommendations for Prestressed Concrete. (Report of the ACI-ASCE Committee on Prestressed Reinforced Concrete.)
- Concrete - (a) Beams - Strength as required but not less than 5000 p.s.i. at 28 days. (b) Slab - 3000 p.s.i. at 28 days.
- Bearing Assemblies to be supplied complete with each beam, (including bottom rebar assembly to be embedded in Substructure).
- See Specifications for further information.
- See Note "5-Dwg. P1 re: Chamfers.
- For painting see clause 20 Information to Tenderers.

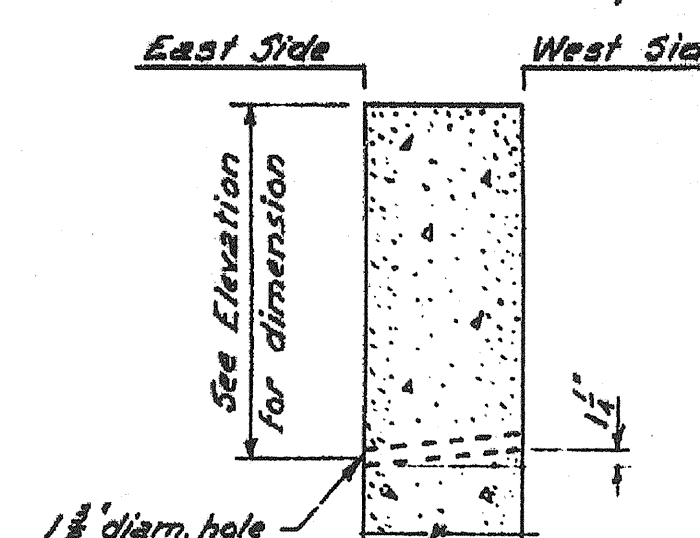
BEAM TYPE	TOTAL No. TO BE SUPPLIED
U1	177
U2	146
U3	102

BEAM TYPE	NUMBER OF BEAMS WITH INSERTS	
	EAST SIDE	WEST SIDE
U1	3	2
U2	0	1
U3	1	1

NOTE:

SPECIAL BEAMS WITH INSERTS

Provide 1/4" inserts instead of holes. (Locate same as holes - see Table above.)



No.	REVISIONS	NAME	DATE
DEPARTMENT OF PUBLIC WORKS CANADA DEVELOPMENT ENGINEERING BRANCH STRUCTURES DIVISION			
SNOWSHEDS GLACIER NATIONAL PARK			
ROOF BEAMS - UPHILL SPANS			
DESIGN FORCES AND DETAILS			
JOB SUPERVISOR	S. STAMER	DESIGN	T.D.
APPROVED	DATE 6/10/61	DRAWN	J.A.M.
TRACED		CHECK	T.D.
PROJECT NO.		SD-106-107	
CHIEF-STRUCTURES DIVISION		SHEET P3 OF 8	
APPROVED		DATE 6/10/61	
CHIEF ENGINEER			

Original Dwg. # P3 was revised to this drawing on April 9/61 by J.T.

X30