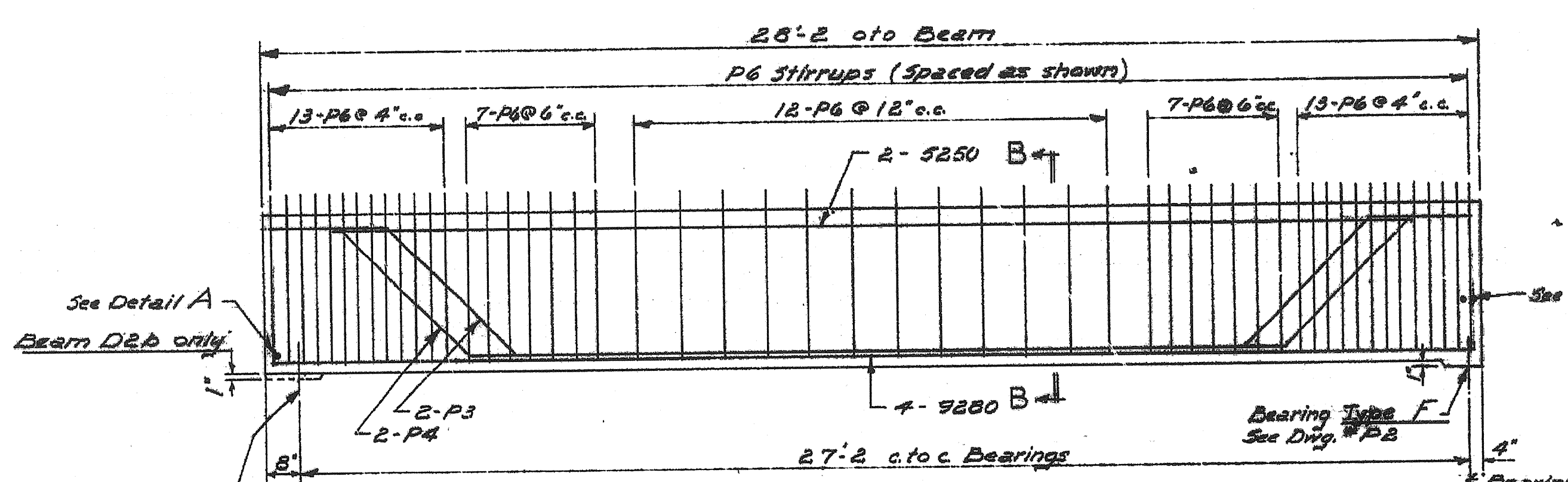
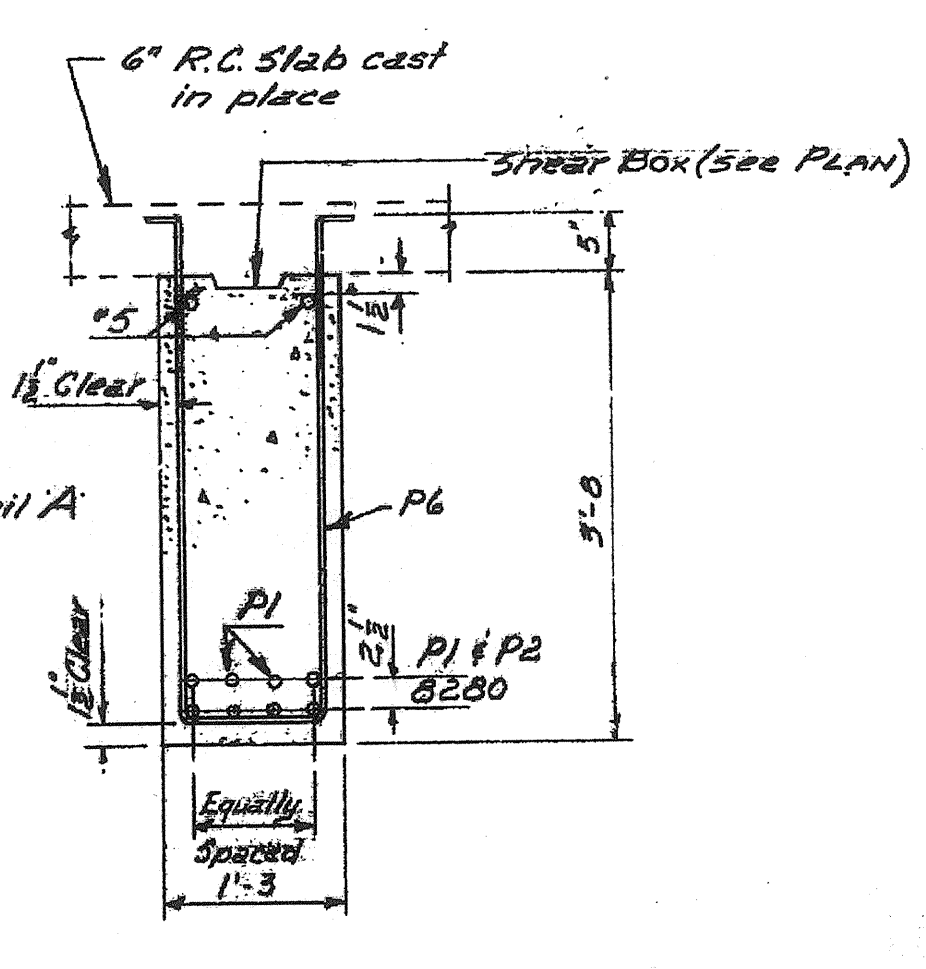
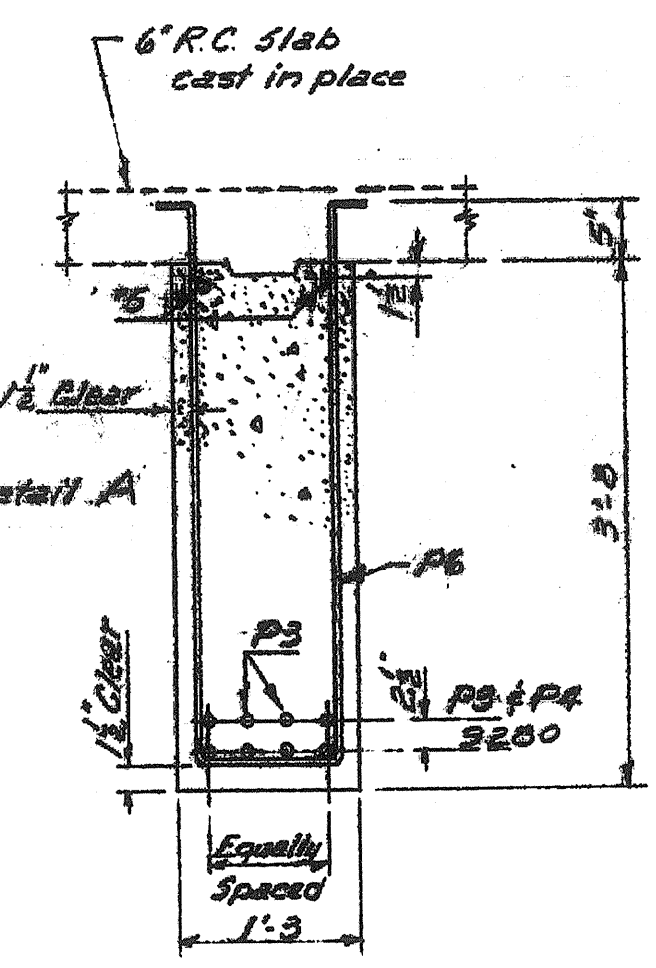


BEAM D1
Scale 1/8"=1'-0"

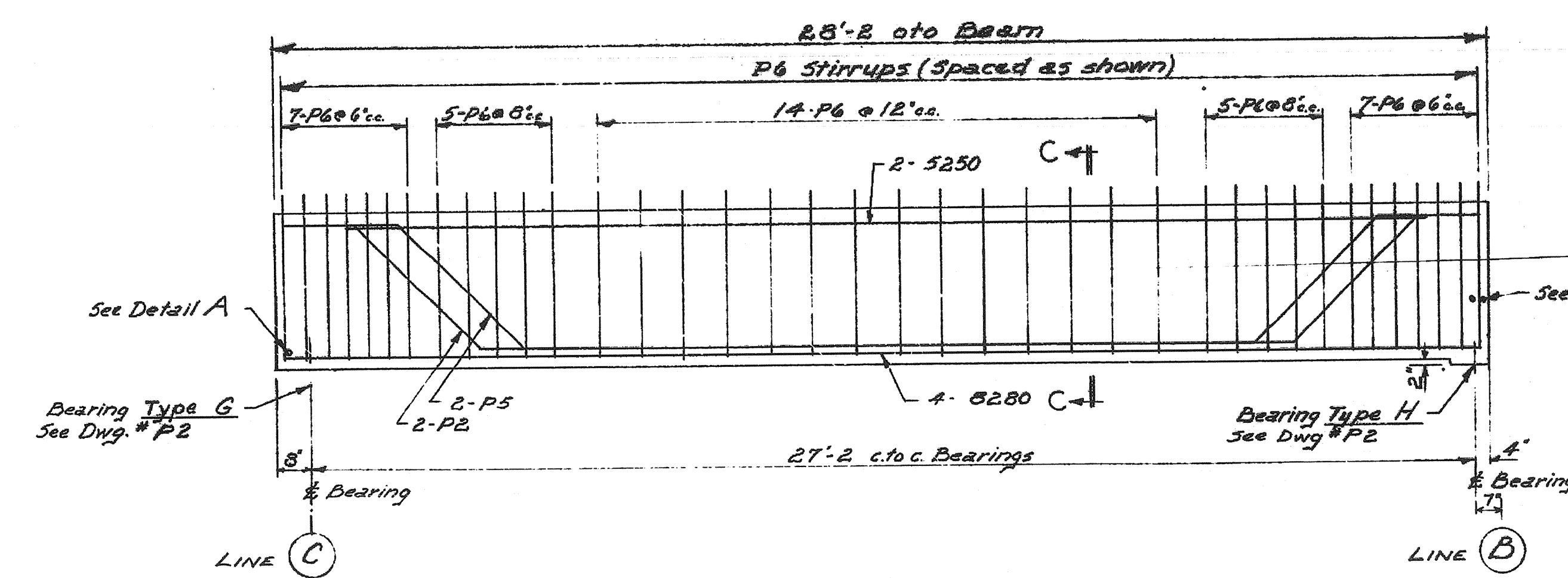


BEAM D2 - BEAM D2a - BEAM D2b
Beams are similar except for Bearing Details at LINE C
Scale 1/8"=1'-0"

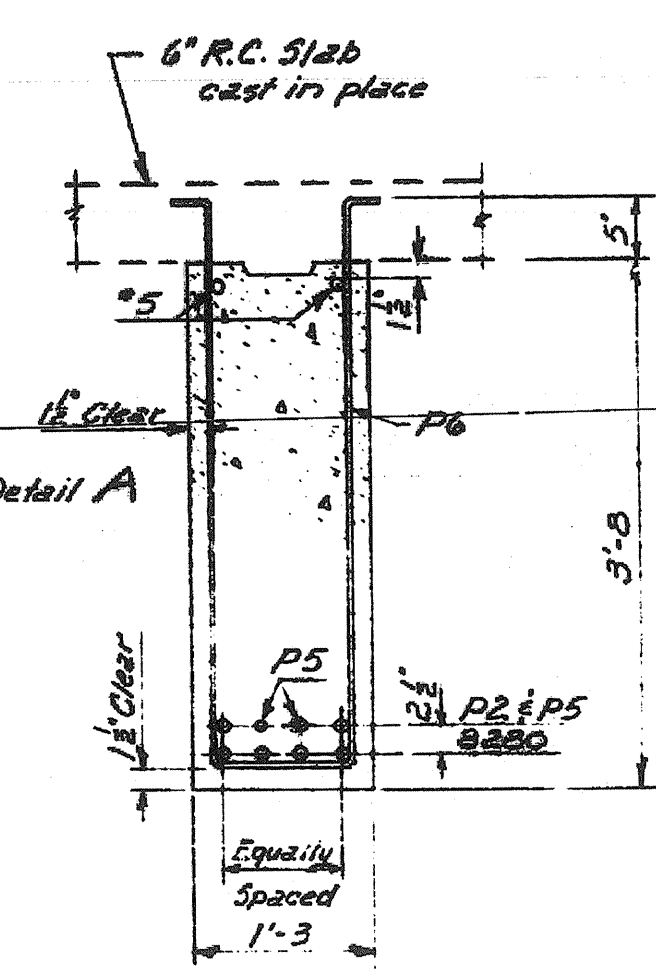


BEAM	BEARING TYPE
D2	C
D2a	D
D2b	E

See Dwg. # P2

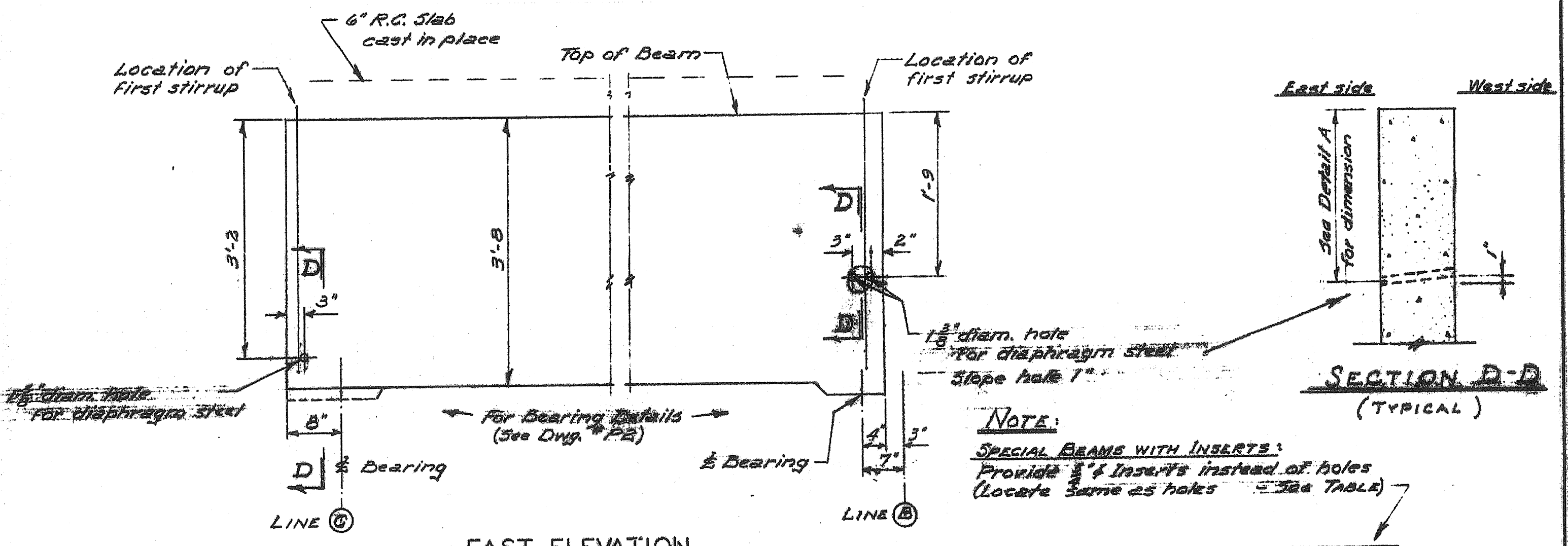


BEAM D3
Scale 1/8"=1'-0"



PRECAST-REINFORCED CONCRETE BEAMS

STEEL SCHEDULE																
Nº BEAMS	BEAM TYPE	TOTAL Lbs. REINF.	TOTAL CU Yds CONC.	Lbs. REINF. PER BEAM	CU Yds CONC. PER BEAM	STRAIGHT BARS				BENT BARS				BENDING DIAGRAM		
						NO. PER BEAM	TOTAL NO	SIZE	LENGTH	MARK	NO. PER BEAM	TOTAL NO	SIZE	LENGTH	MARK	ALL DIMENSIONS ARE OUT TO OUT
177	D1	169417	843	957	4.76	1	708	#8	28'-0	8280	2	354	#8	30'-0	P1	
						2	364	#5	25'-0	5250	2	354	#8	30'-0	P2	
											45	7965	#4	9'-6	P6	
61	D2	71428	291	1,171	4.76	1	244	#9	28'-0	9280	2	122	#9	30'-0	P3	
						2	122	#5	25'-0	5250	2	122	#9	30'-0	P4	
											52	3172	#4	9'-6	P6	
45	D2a	52633	214	1,171	4.76	1	180	#9	28'-0	9280	2	90	#9	30'-0	P3	
						2	90	#5	25'-0	5250	2	90	#9	30'-0	P4	
											52	2340	#4	9'-6	P6	
40	D2b	46830	191	1,171	4.77	1	160	#9	28'-0	9280	2	80	#9	30'-0	P3	
						2	80	#5	25'-0	5250	2	80	#9	30'-0	P4	
											52	2080	#4	9'-6	P6	
102	D3	843	843	478	4.78	1	408	#8	28'-0	8280	2	204	#8	30'-0	P5	
						2	204	#5	25'-0	5250	2	204	#8	30'-0	P2	
											38	3876	#4	9'-6	P6	



BEAM TYPE	NUMBER OF BEAMS WITH INSERTS	
	EAST SIDE	WEST SIDE
D1	3	2
D2	0	1
D3	1	1

- NOTES:
- Specifications - C.S.A.
 - Concrete - 4000 p.s.i. at 28 days.
 - Reinforcing Steel -
(a) Stirrups: Intermediate grade billet steel - deformed bars.
(b) All other steel to be hard grade billet or rail steel - deformed bars. (Min. yield point 50,000 p.s.i.)
 - Bearing Assemblies to be supplied complete for each beam (including bottom B assemblies to be embedded in substructure)
 - Provide 1/2" chamfer on all vertical corners on columns and on beams on all exposed corners in completed structure.
 - For painting see clause 20 Information to Tenderers.

NO.	REVISIONS	NAME	DATE

DEPARTMENT OF PUBLIC WORKS
CANADA
DEVELOPMENT ENGINEERING BRANCH
STRUCTURES DIVISION

SNOWSHEDS
GLACIER NATIONAL PARK

ROOF BEAMS - DOWNHILL SPANS
CONCRETE AND REINFORCING DETAILS

JOB SUPERVISOR	S. STAMER	DESIGN	T.D.	CHECK	T.D.
APPROVED	DATE 1/12/60	DRAWN	J.A.M.	CHECK	T.D.
TRACED		CHECK			

PROJECT NO. SD 104 - 106 - 107 - 108

CHIEF-STRUCTURES DIVISION
APPROVED DATE 1/13/60
P.T. Clarke
CHIEF ENGINEER

SHEET P1 of 8