



PLAN OF ADDITIONAL FLOOR BEAMS & GIRDERS ON EXISTING CAST HOUSE
(ZONE A & B)

BEAM NO.	SECTION	END SHEAR (T)	MATERIAL SPEC.	LEVEL (F.T.S.)
EB1 & EB2	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	355.0	CS202 Gr. B	+1.700 M
EB3	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	348.0	CS202 Gr. B	+1.700 M
EB4	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	322.0	CS202 Gr. B	+1.700 M
EB5	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	5.0	CS202 Gr. A	+4.300 M
EB6	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	79.0	CS202 Gr. A	+4.300 M
EB7	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	20.8	CS202 Gr. A	+4.300 M
EB8	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	32.8	CS202 Gr. A	+4.300 M
EB9	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	34.8	CS202 Gr. A	+4.300 M
EB10	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	312.8	CS202 Gr. A	+4.300 M
EB11	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	29.8	CS202 Gr. A	+4.300 M
EB12	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	50.8	CS202 Gr. A	+4.300 M
EB13	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	13.2	CS202 Gr. A	+4.300 M
EB14	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	23.2	CS202 Gr. A	+4.300 M
EB15	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	8.2	CS202 Gr. A	+4.300 M
EB16	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	24.2	CS202 Gr. B	+4.300 M
EB17	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	7.2	CS202 Gr. A	+4.300 M
EB18	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	20.8	CS202 Gr. A	+4.300 M
EB19	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	12.2	CS202 Gr. A	+4.300 M
EB20	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	2.8	CS202 Gr. A	+4.300 M
EB21	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB22	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB23	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB24	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB25	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB26	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB27	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB28	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB29	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB30	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB31	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB32	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB33	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB34	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB35	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB36	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB37	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB38	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB39	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB40	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB41	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB42	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB43	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB44	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB45	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB46	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB47	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB48	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB49	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB50	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB51	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB52	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB53	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB54	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB55	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB56	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB57	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB58	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB59	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB60	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB61	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB62	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB63	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB64	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB65	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB66	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB67	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB68	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB69	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB70	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB71	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB72	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB73	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB74	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB75	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB76	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB77	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB78	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB79	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB80	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB81	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB82	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB83	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB84	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB85	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB86	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB87	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB88	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB89	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB90	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB91	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB92	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB93	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB94	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB95	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB96	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB97	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB98	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB99	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M
EB100	2" I/F.C. R. 30X42 TH 1" W/AB R. 20X25 TH	31.8	CS202 Gr. A	+4.300 M

- NOTES :-
1. ALL DIMENSIONS AND LEVELS ARE IN MM.
 2. ALL BOLTS ARE 6 MM FILLET CONTINUOUS UNLESS OTHERWISE NOTED.
 3. ALL STRUCTURAL STEEL ROLLED SECTIONS AND MS PLATES UP TO 20 MM THICK SHALL CONFORM TO IS2062 GRADE-AF&F 410 VP.
 4. MS PLATES OVER 20 MM THICK SHALL CONFORM TO IS2062 GRADE-BF&F 410 VP.
 5. LENGTHS & SIZES OF ALL INCLINED MEMBERS & CONNECTING PL.
 6. TO BE ENSURED BY ACTUAL FIELD LAYOUT.
 7. OPEN HOLES FOR PERMANENT BOLTS SHOWN THUS-----
 8. OPEN HOLES FOR H.S.F.G. BOLTS SHOWN THUS-----
 9. ALL HOLES ARE 21Ø FOR M20 BOLTS (GRADE-4.6) UNLESS OTHERWISE NOTED.
 10. ALL H.S.F.G. BOLTS ARE 21Ø FOR 20Ø BOLTS (GRADE-4.6) UNLESS OTHERWISE NOTED.
 11. GENERAL NOTES REFER DRG. # 03753-C-FS-CB-GN-1500(CSD) # GBF-80-S-010