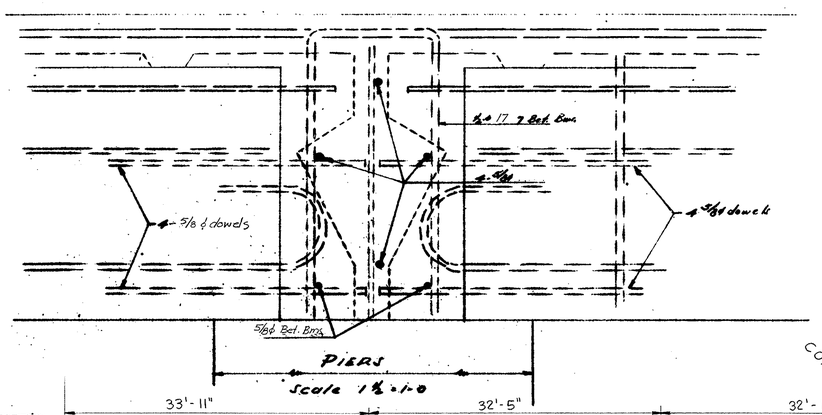
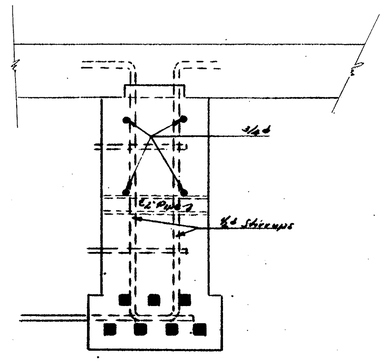
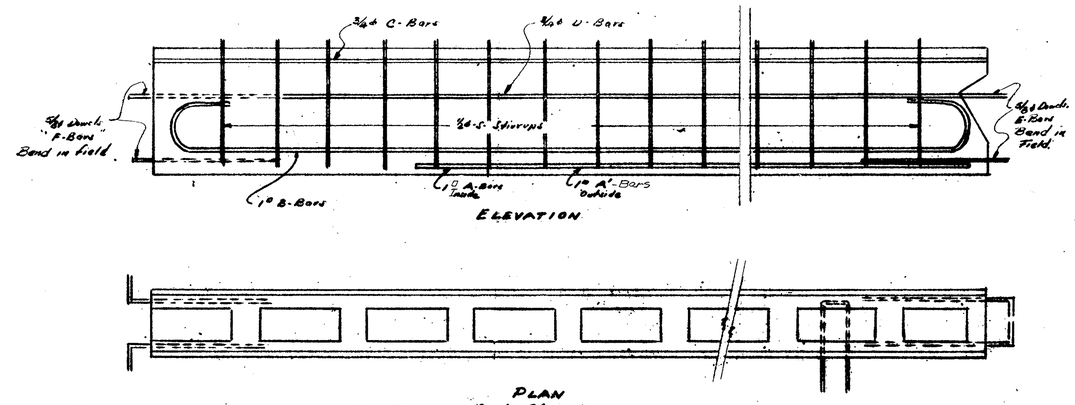
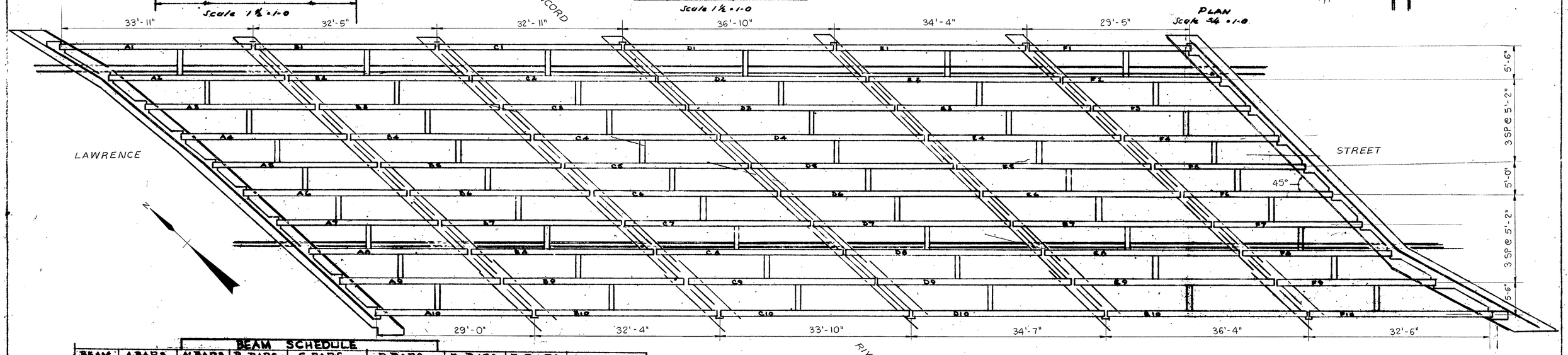








FRAMING PLAN
Scale: 1" = 20'

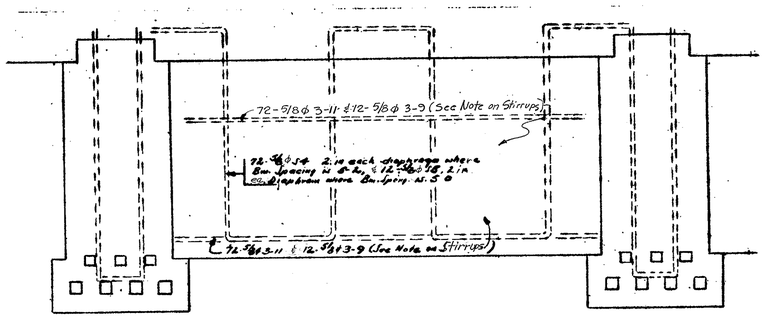
BEAM SCHEDULE

BEAM	A-BARS	A'-BARS	B-BARS	C-BARS	D-BARS	E-BARS	F-BARS	S-STIRRUPS
A-1 *	2-1" 24'-0"	2-1" 17-3	3-1" D1	2-3/4φ 34-7	2 3/4φ 34-1	4-5/8φ D2	4-5/8φ D3	34-1/2φ S1
A-2	2-1" 24-9	2-1" 16-0	3- D4	2- 33-6	2 33-0	do	do	31-1/2φ S2
A-3	2-1" 24-0	2-1" 15-6	3- D5	2- 32-5	2 31-11	do	do	30-1/2φ S1
A-4	2 1" 23-3	2-1" 14-9	3 D6	2- 31-5	2 30-11	do	do	SEE NOTE BELOW
A-5	do	do	3- D7	2- 30-4	2 29-10	do	do	do
A-6	do	do	3- D8	2- 29-4	2 28-10	do	do	do
A-7	do	do	3- D9	2- 29-2	2 28-8	do	do	do
A-8	do	do	3- D15	2- 29-0	2 28-6	do	do	do
A-9	do	do	3- D16	2- 28-10	2 28-4	do	do	do
A-10 *	do	do	3- D17	2- 28-8	2 28-2	do	do	do
B-1 *	2-1" 35'-3"	2-1" 16-3	3- D31	2- 31'-5"	2 30'-6"	do	4-5/8φ D2	do
B-2	do	do	3- D30	2- 31'-6"	2 30'-6"	do	do	do
B-3	do	do	3- D6	2- 31'-7"	2 30'-7"	do	do	do
B-4	do	do	3- D32	2- 31'-8"	2 30'-8"	do	do	do
B-5	do	do	3- D18	2- 31'-9"	2 30'-9"	do	do	do
B-6 to B-8	do	do	3- D33	2- 31'-10"	2 30'-10"	do	do	do
B-9 to B10*	do	do	3-1" D33	2- 31'-10"	2 30'-10"	do	do	do
C-1 *	2-1" 26-6	2 16-6	1-D27 & 2 D28	31'-3	29'-8"	do	do	31-1/2φ S1
C-2	do	do	1-D29 & 2 D30	31'-3	30-0	do	do	31-1/2φ S2
C-3	do	do	1-D31 & 2 D32	31-5	30-3	do	do	31-1/2φ S1
C-4	do	do	1-D16 & 2 D33	31-7	30-5	do	do	do
C-5	do	do	1-D18 & 2 D34	31-10	30-8	do	do	do
C-6	2-1" 26-3	2-1" 17-0	1-D35 & 2 D36	31-9	30-6	do	do	do
C-7	do	do	1-D37 & 2 D38	31'-11"	30'-8	do	do	do
C-8	do	do	1-D5 & 2 D40	32-2	31-0	do	do	32-1/2φ S-1
C-9	do	do	1-D41 & 2 D42	32-10	31-4	do	do	do
C-10 *	do	do	1-D43 & 2 D44	32-11	31-9	do	do	32-1/2φ S-2
D-1 *	2-1" 29-0	2-1" 18-6	1-D45 & 2 D46	32-8	32-0	do	do	32-1/2φ S-1
D-2	do	do	1-D47 & 2 D48	33-3	32-7	do	do	32-1/2φ S-1
D-3	do	do	1-D49 & 2 D47	33-10	33-4	do	do	32-1/2φ S-2
D-4	do	do	1 D51 & 2 D49	34-1	33-5	do	do	33-1/2φ S-1
D-5	do	do	1 D53 & 2 D51	34-11	33-10	do	do	do
D-6	2-1" 29-6	2-1" 17-9	1-D1 & 2 D56	35-2	34-8	do	do	34-1/2φ S-1
D-7	do	do	1-D57 & 2 D1	35-8	34-8	do	do	do
D-8	do	do	1-D10 & 2 D57	34-3	33-6	do	do	do
D-9	do	do	1-D60 & 2 D-10	34-5	33-8	do	do	33-1/2φ S-1
D-10 *	do	do	1 D64 & 2 D63	33-8	33-2	do	do	33-1/2φ S-2
E-1 *	2-1" 27-0	2-1" 17-3	2-1" D8	2 33-9	2 32-9	do	do	do
E-2	do	do	3 D8	2 do	2 do	do	do	33-1/2φ S-2
E-3	do	do	3 D8	2 do	2 do	do	do	33-1/2φ S-1
E-4	do	do	3 D8	2 do	2 do	do	do	do
E-5	do	do	3 D8	2 do	2 do	do	do	34-1/2φ S-1
E-6	2-1" 27-6	2-1" 17-9	3 D8	2 do	2 do	do	do	do
E-7	do	do	3 D9	2 33-11	2 32-11	do	do	do
E-8	do	do	3 D19	2 34-1	2 33-1	do	do	do
E-9	do	do	3 D39	2 34-3	2 33-3	do	do	34-1/2φ S-2
E-10 *	do	do	3 D48	2 34-5	2 33-5	do	do	35-1/2φ S-1
F-1 *	2-1" 22-9	2-1" 14-6	3 D14	2 28'-10"	2 28'-4"	do	4 5/8φ D3	29-1/2φ S-1
F-2	do	do	3 D17	2 28'-8"	2 28'-2"	do	do	29-1/2φ S-2
F-3	do	do	3 D20	2 28-7	2 28'-0"	do	do	28-1/2φ S-1
F-4	do	do	3 D21	2 28'-5"	2 27'-10"	do	do	do
F-5	do	do	3 D22	2 28'-4"	2 27-10	do	do	do
F-6	2-1" 21-9	2-1" 14-0	3 D23	2 28'-2"	2 27'-8"	do	do	do
F-7	do	do	3 D24	2 27'-11"	2 27'-5"	do	do	27-1/2φ S-1
F-8	do	do	3 D25	2 27'-8"	2 27'-2"	do	do	do
F-9	2-1" 22-9	2-1" 14-6	3 D17	2 28'-8"	2 28'-1"	do	do	28-1/2φ S-2
F-10 *	2-1" 25-3	2-1" 16-3	3-1" D26	2-3/4φ 31'-5"	2-3/4φ 30'-11"	do	do	32-1/2φ S1

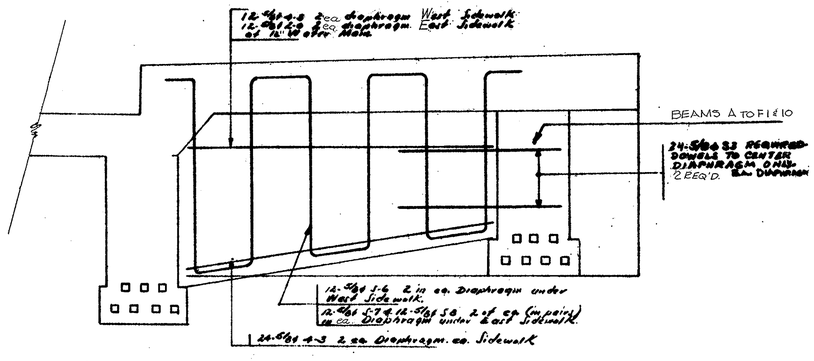
Stirrup Note: 1. B2 - 1/2φ S1 in Beams A-4-5-6-7-8 & 10 with 29-1/2φ S2 in Beam A-9
" " 2. 31-1/2φ S-1 in Beams B-1-3-4-5-6-7-8 & 10 with 31-1/2φ S-2 in Beams B-2 & B-9

* FOR DOWELS TO DIAPHRAGM FROM BMS A TO F1 & A TO F10 SEE SIDEWALK SECT. SECT. THIS SHEET

BEAM PLACEMENT PLAN
Scale ⅛"=1'-0"



ELEVATION OF DIAPHRAGM
Scale 1½"=1'-0"



SECTION THRU. SIDEWALK
Scale 1"=1'-0"

Note: For details see sheets D1-D2-D3-D4

PRECAST BEAMS & SLAB
LAWRENCE ST. BRIDGE, LOWELL

CONCRETE STEEL CO.
294 WASHINGTON ST. BOSTON

CUSTOMER Wm. J. Hurley Const. Co.
ENGINEER Stephen Kramer
ARCHITECT

Date ~~6-6-51~~ 6-20-51	Scale As noted
Revised ~~7-25-51~~ 7-20-51	Made by CGW
Job No.	File L Sh #1

BRIDGE NO. L-15-31