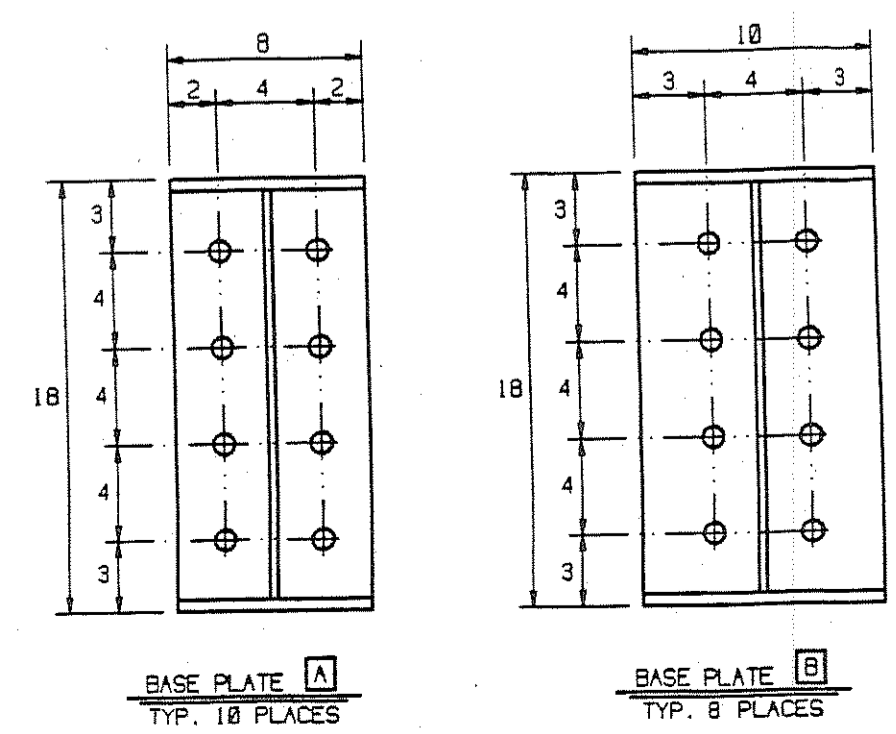


ANCHOR BOLT LAYOUT



BROWNING DAY MULLINS DIERDORF ARCHITECTS
 626 NORTH ILLINOIS STREET
 INDIANAPOLIS, INDIANA 46204

"A Action" Fabricate, manufacture and/or construction may proceed providing the work is in compliance with the Contract Documents.

"B Action" Fabrication, manufacture and/or construction may proceed providing the work is in compliance with the Architect's notations and the Contract Documents.

"C Action" No work shall be fabricated, manufactured and/or constructed under this submittal. The Contractor shall make a new submittal to the Architect. No work for submissions marked "C Action" will be permitted on the site.

Checking by the Architect/Engineer is only for conformance with the general design concept of the project. The Contractor is solely responsible for compliance with the information given in the Contract Documents; for dimensions and quantities to be confirmed and coordinated at the job site for information that pertains to fabrication processes, methods or techniques of construction; and for coordination of work of all trades.

DATE 5.12.04
 BY D. Kelly

QTY	DESCRIPTION	PROJECTION (IN)
144	AB 1.00 x 30	2.50

- NOTES:**
- ALL ANCHOR BOLTS SHALL BE 1" DIA. x 30" LONG A-307 W/ 50" HOOK AND SHALL EXTEND 2-1/2" ABOVE TOP OF CONCRETE.
 - "BLUEGRASS STEEL BLOBS" RECOMMENDS HAIRPIN ANCHORS TO BE PLACED AROUND ANCHOR BOLTS AND TO EXTEND INTO FLOOR SLAB FOR THE RESISTANCE OF HORIZONTAL LOADS.
 - "BLUEGRASS STEEL BLOBS" ASSUMES ALL STEEL BASEPLATES TO BE PLACED ON TOP OF FINISHED FLOOR (REF. ELE. 459'-0").

REVIEWED WITH NO EXCEPTION TAKEN
 REVIEWED WITH EXCEPTIONS AS NOTED
 REJECTED-REVISE AND RESUBMIT

Conditions or comments made on this shop drawing during this review do not relieve subcontractor/vendor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The subcontractor/vendor is responsible for confirming and coordinating all quantities and dimensions, including fabrication processes and techniques of construction, coordinating his work with that of all other trades and performing his work in a safe and satisfactory manner.

WHITTENBERG CONSTRUCTION CO.
 Louisville, Kentucky
 BY RJM Date 5/11/04

Bluegrass Steel Buildings, Inc.
 3161 Development Way
 Sellersburg, Indiana 47172

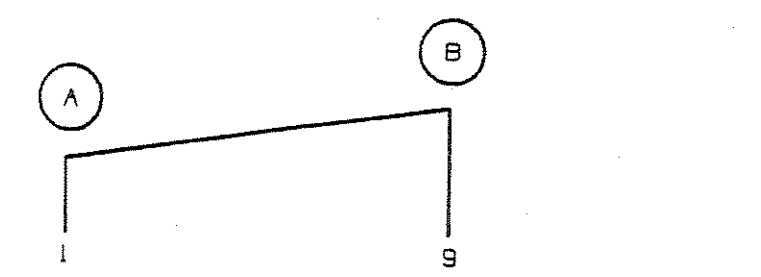
(812) 246-0237
 fax (812) 246-0262

Bluegrass Steel Bldgs.

WHITTENBERG CONSTRUCTION
 PROJECT
U OF L NATATORIUM
 job number **04-7035**

job number **04-7035**
 scale **NONE**
 date **03-08-04**
 drawn by **F. JACKSON**
 checked by **L. BELCHER**
 revised **APR 30 2004**

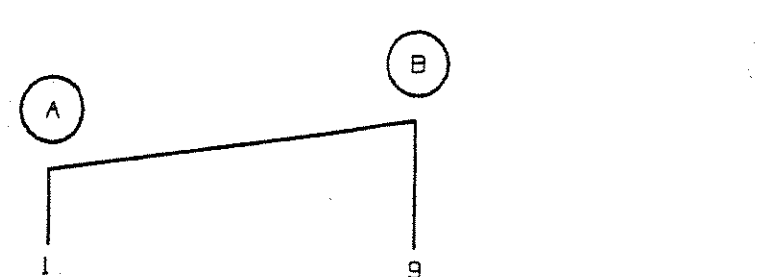
drawing no.
 1
 of
 9



NOTE: POSITIVE REACTIONS ARE UP AND TO THE LEFT.

DESCRIPTION	SUPPORT	REACTION (KIPS)	
		HORIZ	VERT
1 100*10C*10L AI A3	1	.22	87.87
1 100*10C*10L AI A3	9	15.95	23.95
2 100*10L*10V CI A5	1	14.40	68.32
2 100*10L*10V CI A5	9	18.24	17.65
3 100*10L*10V CI A5	1	-23.78	85.47
3 100*10L*10V CI A5	9	-11.51	-5.1
4 100*10L*10V C2 A5	1	14.57	73.59
4 100*10L*10V C2 A5	9	18.10	23.31
5 100*10L*10V C2 A5	1	-23.54	92.89
5 100*10L*10V C2 A5	9	-11.66	5.15
6 100*10C*10L* FZ A5	1	.57	86.67
6 100*10C*10L* FZ A5	9	16.40	30.36
7 50*10V CI A3	1	21.33	53.08
7 50*10V CI A3	9	11.31	-7.2
8 50*10V CI A3	1	-16.77	88.24
8 50*10V CI A3	9	-18.44	-15.88
9 50*10V C2 A3	1	21.50	55.59
9 50*10V C2 A3	9	11.17	4.84
10 50*10V C2 A3	1	-16.61	73.84
10 50*10V C2 A3	9	-18.59	-13.21
11 50* 5C* FZ A2	1	7.75	67.89
11 50* 5C* FZ A2	9	9.22	11.31

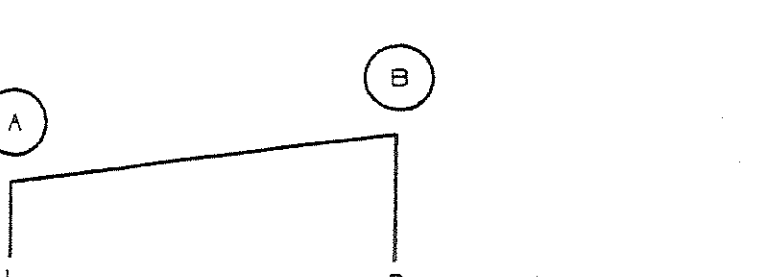
TYPICAL REACTIONS APPLIED TO FOUNDATION AT FRAME LINE ①.



NOTE: POSITIVE REACTIONS ARE UP AND TO THE LEFT.

DESCRIPTION	SUPPORT	REACTION (KIPS)	
		HORIZ	VERT
1 100*10C*10L AI 1	1	-19.19	59.85
1 100*10C*10L AI 1	9	23.19	59.11
2 100*10L*10V CI AI	1	13.32	7.51
2 100*10L*10V CI AI	9	26.33	31.42
3 100*10L*10V CI AI	1	-30.57	27.10
3 100*10L*10V CI AI	9	-16.58	12.13
4 100*10L*10V C2 AI	1	13.69	20.43
4 100*10L*10V C2 AI	9	28.20	44.17
5 100*10L*10V C2 AI	1	-30.50	39.72
5 100*10L*10V C2 AI	9	-16.31	24.88
6 100*10C*10L* FZ *Z	1	-18.44	49.54
6 100*10C*10L* FZ *Z	9	23.79	59.65
7 50*10V CI AI	1	28.89	-32.96
7 50*10V CI AI	9	12.76	-9.52
8 50*10V CI AI	1	-15.29	-13.67
8 50*10V CI AI	9	-32.16	-28.80
9 50*10V C2 AI	1	29.26	-20.34
9 50*10V C2 AI	9	12.43	3.25
10 50*10V C2 AI	1	-14.93	-1.05
10 50*10V C2 AI	9	-32.49	-15.83
11 50* 5C* FZ *Z	1	-2.23	7.25
11 50* 5C* FZ *Z	9	7.84	17.20

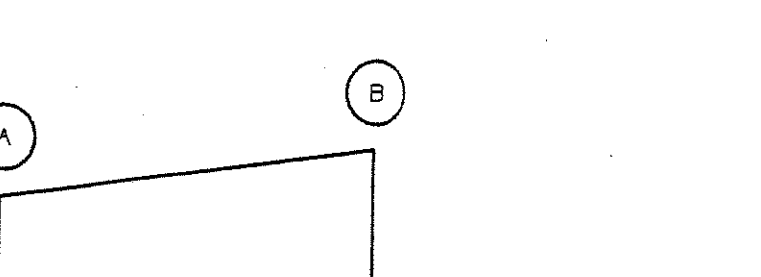
TYPICAL REACTIONS APPLIED TO FOUNDATION AT FRAME LINE ②.



NOTE: POSITIVE REACTIONS ARE UP AND TO THE LEFT.

DESCRIPTION	SUPPORT	REACTION (KIPS)	
		HORIZ	VERT
1 100*10C*10L AI 1	1	-19.45	49.65
1 100*10C*10L AI 1	9	19.45	51.33
2 100*10L*10V CI AI	1	12.88	7.59
2 100*10L*10V CI AI	9	24.66	23.64
3 100*10L*10V CI AI	1	-28.35	24.77
3 100*10L*10V CI AI	9	-15.89	6.46
4 100*10L*10V C2 AI	1	13.95	28.20
4 100*10L*10V C2 AI	9	24.33	38.42
5 100*10L*10V C2 AI	1	-27.98	37.98
5 100*10L*10V C2 AI	9	-15.42	19.22
6 100*10C*10L* FZ *Z	1	-18.71	49.31
6 100*10C*10L* FZ *Z	9	23.05	51.87
7 50*10V CI AI	1	31.2	-17.28
7 50*10V CI AI	9	12.81	-15.01
8 50*10V CI AI	1	-12.81	-34.46
8 50*10V CI AI	9	-30.63	-28.57
9 50*10V C2 AI	1	28.89	-28.57
9 50*10V C2 AI	9	8.79	-4.52
10 50*10V C2 AI	1	-12.44	-3.38
10 50*10V C2 AI	9	-30.95	-21.70
11 50* 5C* FZ *Z	1	-2.59	7.82
11 50* 5C* FZ *Z	9	3.84	9.43

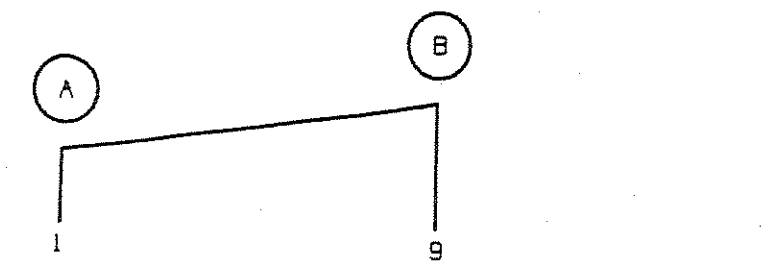
TYPICAL REACTIONS APPLIED TO FOUNDATION AT FRAME LINE ③.



NOTE: POSITIVE REACTIONS ARE UP AND TO THE LEFT.

DESCRIPTION	SUPPORT	REACTION (KIPS)	
		HORIZ	VERT
1 100*10C*10L *Addf 1	1	-28.81	76.42
1 100*10C*10L *Addf 1	9	28.81	77.99
2 100*10L*10V CI *Addf 1	1	3.16	34.16
2 100*10L*10V CI *Addf 1	9	34.47	50.29
3 100*10L*10V CI *Addf 1	1	-37.53	51.33
3 100*10L*10V CI *Addf 1	9	-5.50	33.12
4 100*10L*10V C2 *Addf 1	1	3.66	46.77
4 100*10L*10V C2 *Addf 1	9	34.21	63.25
5 100*10L*10V C2 *Addf 1	1	-37.43	63.95
5 100*10L*10V C2 *Addf 1	9	-5.95	45.98
6 100*10C*10L* FZ *Z 1	1	-28.89	75.88
6 100*10C*10L* FZ *Z 1	9	29.43	78.53
7 50*10V CI *Addf 1	1	28.18	-33.19
7 50*10V CI *Addf 1	9	9.46	-17.28
8 50*10V CI *Addf 1	1	-12.32	-15.01
8 50*10V CI *Addf 1	9	-30.51	-34.46
9 50*10V C2 *Addf 1	1	28.67	-28.56
9 50*10V C2 *Addf 1	9	12.42	-3.39
10 50*10V C2 *Addf 1	1	-12.42	-3.39
10 50*10V C2 *Addf 1	9	-30.97	-21.70
11 50* 5C* FZ *Z 1	1	-2.50	7.82
11 50* 5C* FZ *Z 1	9	3.85	9.43

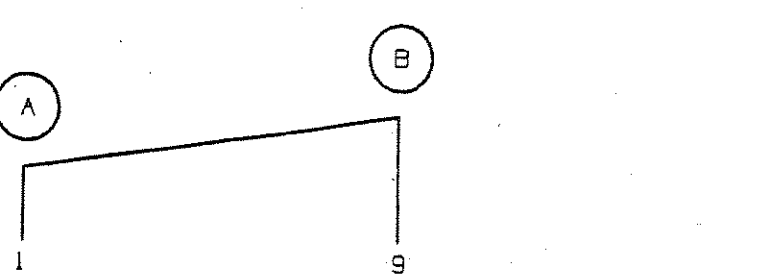
TYPICAL REACTIONS APPLIED TO FOUNDATION AT FRAME LINE ④.



NOTE: POSITIVE REACTIONS ARE UP AND TO THE LEFT.

DESCRIPTION	SUPPORT	REACTION (KIPS)	
		HORIZ	VERT
1 100*10C*10L *Addf 1	1	-37.41	57.18
1 100*10C*10L *Addf 1	9	37.41	57.98
2 100*10L*10V CI *Addf 1	1	-6.93	26.32
2 100*10L*10V CI *Addf 1	9	26.23	29.48
3 100*10L*10V CI *Addf 1	1	-28.72	30.84
3 100*10L*10V CI *Addf 1	9	7.05	24.76
4 100*10L*10V C2 *Addf 1	1	-13.25	35.45
4 100*10L*10V C2 *Addf 1	9	30.49	39.65
5 100*10L*10V C2 *Addf 1	1	-33.93	40.17
5 100*10L*10V C2 *Addf 1	9	11.31	34.53
6 100*10C*10L* FZ *Z 1	1	-36.44	56.80
6 100*10C*10L* FZ *Z 1	9	38.17	58.18
7 50*10V CI *Addf 1	1	22.48	-23.14
7 50*10V CI *Addf 1	9	-5.18	-19.21
8 50*10V CI *Addf 1	1	2.69	-18.41
8 50*10V CI *Addf 1	9	-24.36	-23.98
9 50*10V C2 *Addf 1	1	18.15	-13.00
9 50*10V C2 *Addf 1	9	-32	-9.84
10 50*10V C2 *Addf 1	1	-1.62	-0.28
10 50*10V C2 *Addf 1	9	-30.18	-13.78
11 50* 5C* FZ *Z 1	1	-4.94	6.52
11 50* 5C* FZ *Z 1	9	5.77	7.96

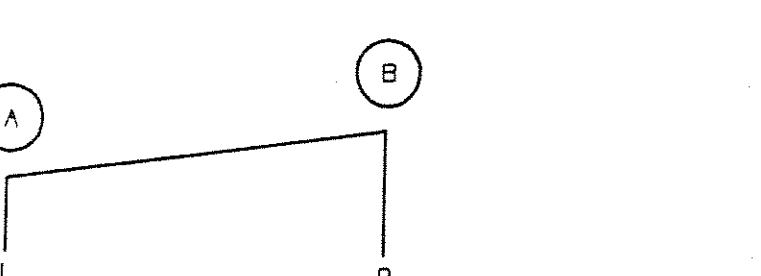
TYPICAL REACTIONS APPLIED TO FOUNDATION AT FRAME LINE ⑤.



NOTE: POSITIVE REACTIONS ARE UP AND TO THE LEFT.

DESCRIPTION	SUPPORT	REACTION (KIPS)	
		HORIZ	VERT
1 100*10C*10L *Addf 1	1	-31.27	49.58
1 100*10C*10L *Addf 1	9	31.27	50.16
2 100*10L*10V CI *Addf 1	1	-3.55	17.71
2 100*10L*10V CI *Addf 1	9	28.95	21.84
3 100*10L*10V CI *Addf 1	1	-23.28	22.44
3 100*10L*10V CI *Addf 1	9	1.62	17.11
4 100*10L*10V C2 *Addf 1	1	-7.64	27.55
4 100*10L*10V C2 *Addf 1	9	24.88	32.01
5 100*10L*10V C2 *Addf 1	1	-27.37	32.57
5 100*10L*10V C2 *Addf 1	9	5.65	27.28
6 100*10C*10L* FZ *Z 1	1	-30.31	49.20
6 100*10C*10L* FZ *Z 1	9	32.04	50.54
7 50*10V CI *Addf 1	1	21.55	-23.14
7 50*10V CI *Addf 1	9	-4.65	-15.21
8 50*10V CI *Addf 1	1	2.21	-18.42
8 50*10V CI *Addf 1	9	-23.68	-23.53
9 50*10V C2 *Addf 1	1	17.86	-13.00
9 50*10V C2 *Addf 1	9	-6.2	-3.04
10 50*10V C2 *Addf 1	1	-1.88	-0.28
10 50*10V C2 *Addf 1	9	-19.84	-13.76
11 50* 5C* FZ *Z 1	1	-3.85	6.82
11 50* 5C* FZ *Z 1	9	5.59	7.96

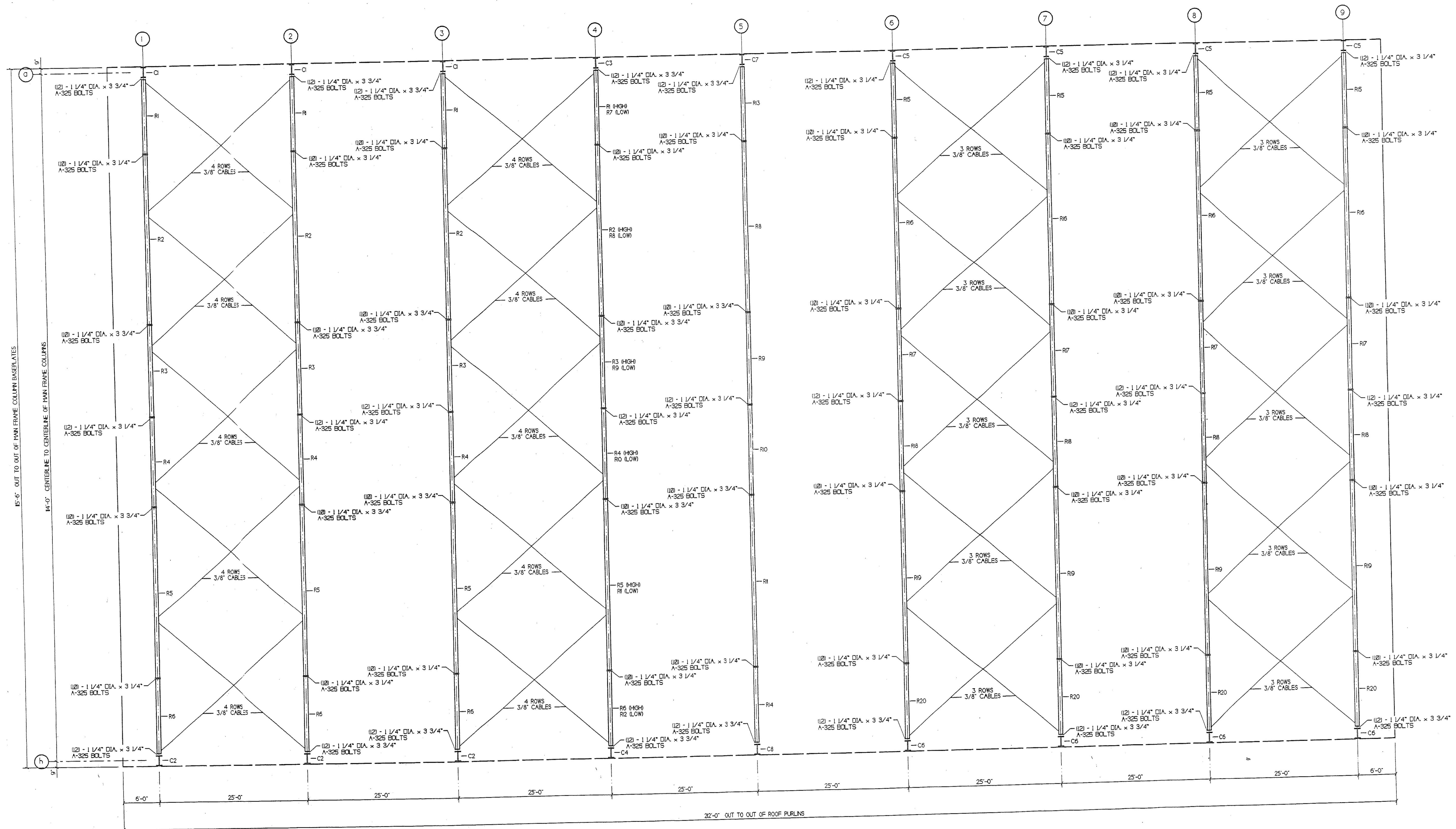
TYPICAL REACTIONS APPLIED TO FOUNDATION AT FRAME LINES ⑥, ⑦ AND ⑧.



NOTE: POSITIVE REACTIONS ARE UP AND TO THE LEFT.

DESCRIPTION	SUPPORT	REACTION (KIPS)	
		HORIZ	VERT
1 100*10C*10L AI 1	1	-23.25	36.67
1 100*10C*10L AI 1	9	23.24	37.38
2 100*10L*10V CI AI	1	-2.77	13.28
2 100*10L*10V CI AI	9	15.57	16.42
3 100*10L*10V CI AI	1	-17.41	16.78
3 100*10L*10V CI AI	9	1.38	12.93
4 100*10L*10V C2 AI	1	-5.79	20.79
4 100*10L*10V C2 AI	9	18.54	23.95
5 100*10L*10V C2 AI	1	-28.42	24.28
5 100*10L*10V C2 AI	9	4.36	20.46
6 100*10C*10L* FZ *Z 1	1	-22.53	36.58
6 100*10C*10L* FZ *Z 1	9	23.81	37.67
7 50*10V CI AI	1	16.02	-16.95
7 50*10V CI AI	9	-3.22	-13.95
8 50*10V CI AI	1	1.58	-13.45
8 50*10V CI AI	9	-17.41	-17.44
9 50*10V C2 AI	1	13.81	-9.45
9 50*10V C2 AI	9	-25	-6.42
10 50*10V C2 AI	1	-1.63	-5.96
10 50*10V C2 AI	9	-14.44	-9.32
11 50* 5C* FZ *Z 1	1	-3.04	5.23
11 50* 5C* FZ *Z 1	9	4.32	6.16

TYPICAL REACTIONS APPLIED TO FOUNDATION AT FRAME LINE ⑨.

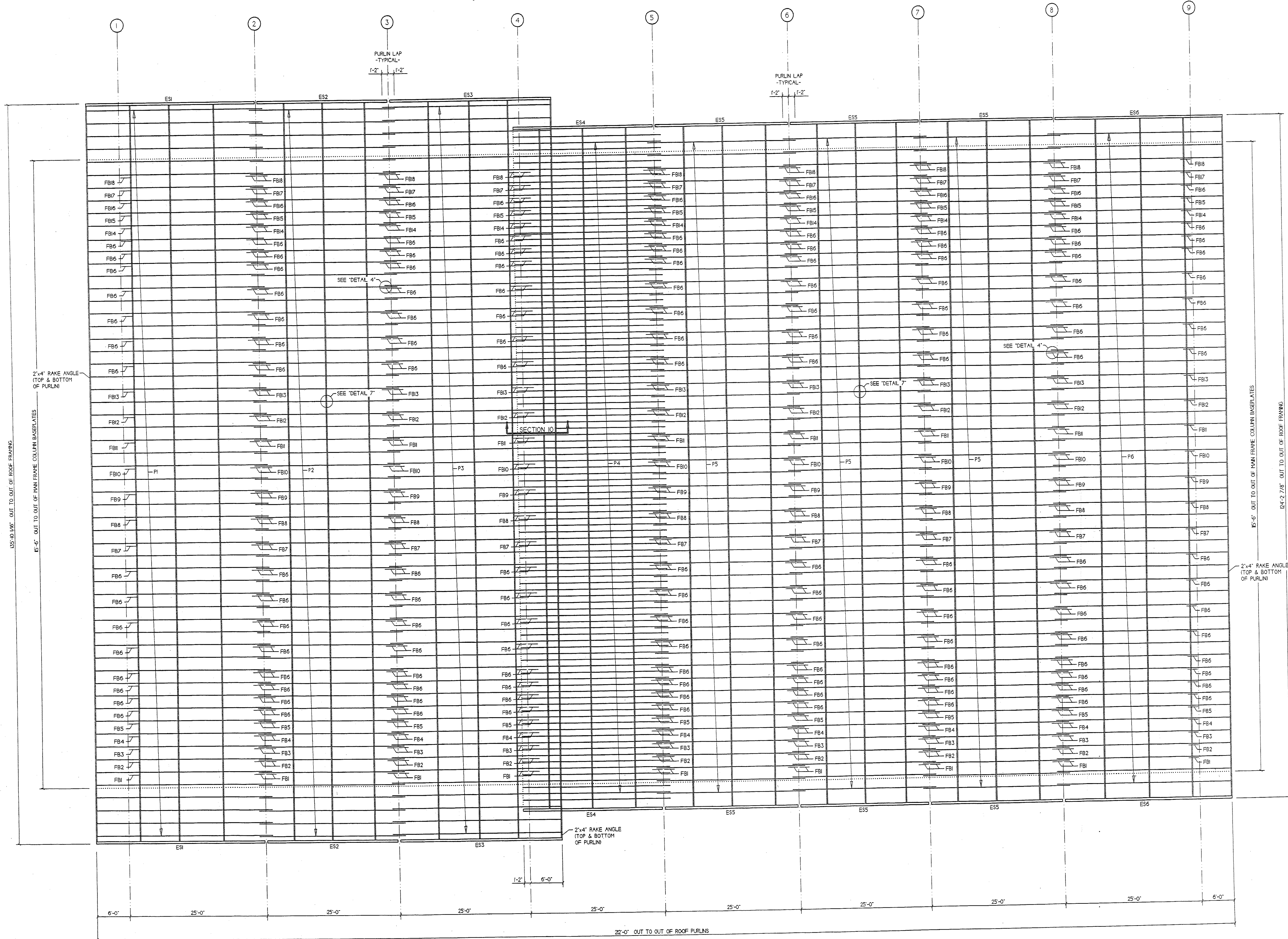


Bluegrass Steel Buildings, Inc.
 3161 Development Way
 Sellersburg, Indiana 47172
 (812) 246-0237
 fax (812) 246-0262
 Bluegrass Steel Buildings

WHITTENBERG CONSTRUCTION
 Project: **U OF L NATATORIUM**
 Job number: **04-7035**

Job number **04-7035**
 scale **NONE**
 date **03-17-04**
 drawn by **F. JACKSON**
 checked by **L. BELCHER**
 revised **APR 30 2004**

drawing no.
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 of
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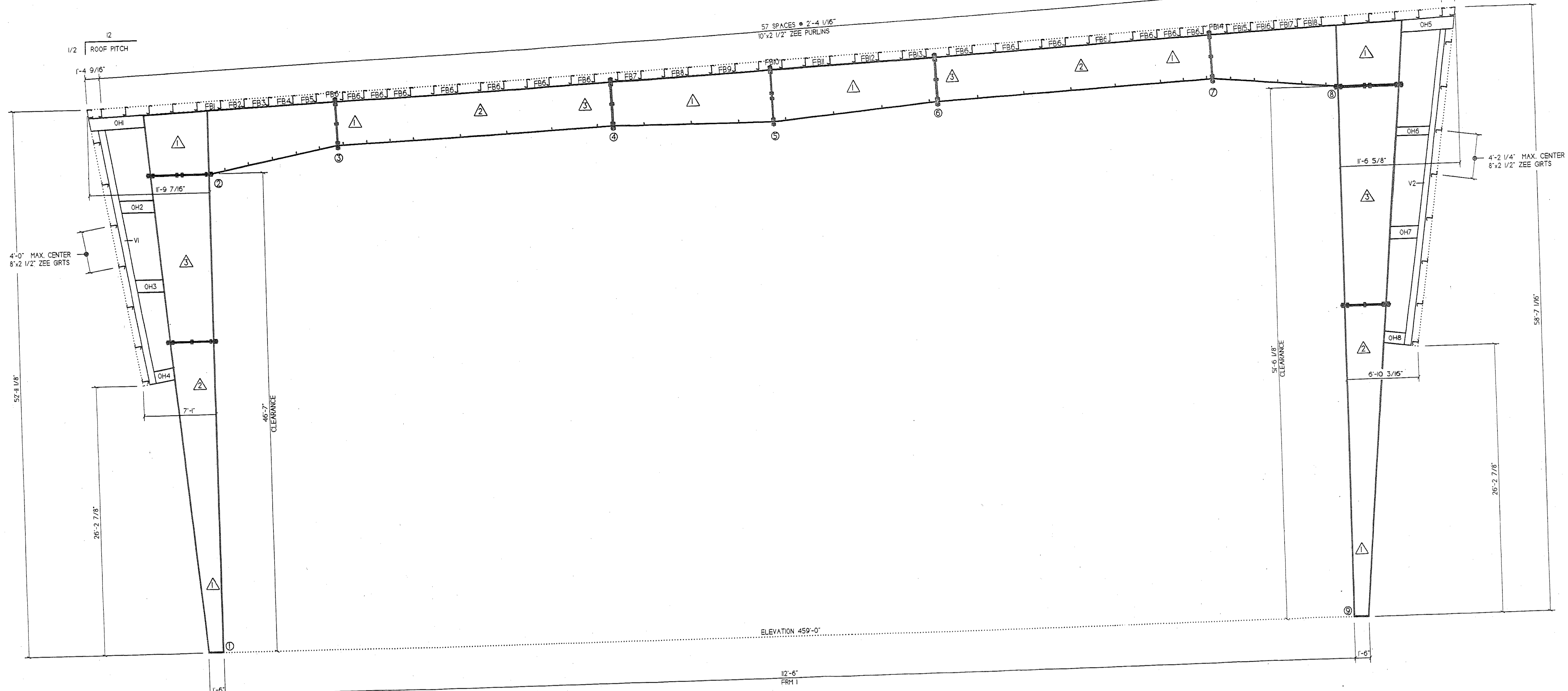
PURLIN LAYOUT

Bluegrass Steel Buildings, Inc.
 (612) 246-9237
 3161 Development Way
 Sellersburg, Indiana 47172
 fax (612) 246-9232

customer: **WHITTENBERG CONSTRUCTION**
 project: **U OF L NATATORIUM**
 job number: **04-7035**

Job number 04-7035
 scale NONE
 date 03-17-04
 drawn by F. JACKSON
 checked by L. BELCHER
 revised APR 30 2004

drawing no.
 4
 of
 9



FRAME DETAIL
FRAME LINE ① ② ③

SEGMENTS TABLE				
PARTMARK	SEGMENT	TYPE	THICKNESS	WIDTH
C 1	1	WEB	0.325	
C 1	2	WEB	0.325	
C 1	3	WEB	0.325	
C 1	1	OUTSIDE FLG	0.7500	0' 8"
C 1	2	OUTSIDE FLG	0.7500	0' 8"
C 1	3	OUTSIDE FLG	0.7500	0' 10"
C 1	1	INSIDE FLG	0.7500	0' 8"
C 1	2	INSIDE FLG	0.7500	0' 8"
C 1	3	INSIDE FLG	0.7500	0' 10"
C 2	1	WEB	0.2500	
C 2	2	WEB	0.2500	
C 2	3	WEB	0.325	
C 2	1	OUTSIDE FLG	0.7500	0' 10"
C 2	2	OUTSIDE FLG	0.7500	0' 10"
C 2	3	OUTSIDE FLG	0.7500	0' 10"
C 2	1	INSIDE FLG	0.7500	0' 10"
C 2	2	INSIDE FLG	0.7500	0' 10"
C 2	3	INSIDE FLG	0.7500	0' 10"
R 1	1	WEB	0.5000	
R 1	1	OUTSIDE FLG	0.5000	0' 8"
R 1	1	INSIDE FLG	0.5000	0' 8"
R 2	1	WEB	0.325	
R 2	2	WEB	0.325	
R 2	3	WEB	0.325	
R 2	1	OUTSIDE FLG	0.5000	0' 8"
R 2	2	OUTSIDE FLG	0.6250	0' 8"
R 2	1	INSIDE FLG	0.5000	0' 8"
R 2	2	INSIDE FLG	0.325	0' 8"
R 2	3	INSIDE FLG	0.6250	0' 8"
R 3	1	WEB	0.2500	
R 3	1	OUTSIDE FLG	0.7500	0' 8"
R 3	1	INSIDE FLG	0.5000	0' 8"
R 3	2	INSIDE FLG	0.4375	0' 8"
R 4	1	WEB	0.5000	
R 4	1	OUTSIDE FLG	0.5000	0' 8"
R 4	1	INSIDE FLG	0.5000	0' 8"
R 5	1	WEB	0.5000	
R 5	2	WEB	0.325	
R 5	3	WEB	0.325	
R 5	1	OUTSIDE FLG	0.5000	0' 8"
R 5	2	OUTSIDE FLG	0.6250	0' 8"
R 5	1	INSIDE FLG	0.5000	0' 8"
R 5	2	INSIDE FLG	0.325	0' 8"
R 5	3	INSIDE FLG	0.6250	0' 8"
R 6	1	WEB	0.2500	
R 6	1	OUTSIDE FLG	0.7500	0' 8"
R 6	1	INSIDE FLG	0.5000	0' 8"
R 6	2	INSIDE FLG	0.4375	0' 8"

JOINT INFORMATION					
JOINT	PARTMARK	DEPTH	THICKNESS	BOLT QTY	DESCRIPTION
1	C 1	1'-4 1/2"	0.325	8	ABLOX30
2	C 1	5' 8"	0.325	12	H.2X375
9	C 2	1'-4 1/2"	0.2500	8	ABLOX30
8	C 2	5' 8"	0.325	12	H.2X375
2	R 1	5' 8"	0.5000		
3	R 1	4' 1"	0.5000	10	H.2X325
3	R 2	4' 1"	0.5000		
4	R 2	4' 1"	0.325	10	H.2X375
4	R 3	4' 1"	0.2500		
5	R 3	4' 10"	0.2500		
8	R 4	5' 8"	0.5000		
7	R 4	4' 1"	0.5000	10	H.2X325
7	R 5	4' 1"	0.5000		
6	R 5	4' 1"	0.325	10	H.2X375
6	R 6	4' 1"	0.2500		
5	R 6	4' 10"	0.2500	12	H.2X325

FLANGE BRACE TABLE			
PARTMARK	PLACEMENT	QTY/FRAME	QTY/BLDG
FB 1	NS/FS	2	30
FB 2	NS/FS	2	30
FB 3	NS/FS	2	30
FB 4	NS/FS	2	30
FB 5	NS/FS	2	30
FB 6	NS/FS	30	300
FB 7	NS/FS	2	30
FB 8	NS/FS	2	30
FB 9	NS/FS	2	30
FB0	NS/FS	2	30
FB1	NS/FS	2	30
FB2	NS/FS	2	30
FB3	NS/FS	2	30
FB4	NS/FS	2	30
FB5	NS/FS	2	30
FB6	NS/FS	2	30
FB7	NS/FS	2	30
FB8	NS/FS	2	30

DESIGN LOADS
 FRAME LOAD - 20 PSF
 PURLIN LOAD - 20 PSF
 SNOW LOAD - 20 PSF
 WIND LOAD - 90 MPH
 EXPOSURE - B
 COLLATERAL LOAD FRAMES - 2 PSF
 COLLATERAL LOAD FRAMES - 15 PSF
 DEAD LOAD (ACTUAL)
 MAIN FRAME DEFLECTION CRITERIA - L/180
 SEISMIC - SEISMIC DESIGN CATEGORY B
 SPECTRAL RESPONSE - COEFFICIENT S = 1.1,
 IN ACCORDANCE WITH THE KENTUCKY BUILDING CODE

NOTES:
 1) FRAME LINE ① ② HAS BEEN DESIGNED TO SUPPORT ADDITIONAL LOADS AS REQUESTED PER ARCHITECTURAL DRAWINGS S-4.01 AND S5.02.
 2) FRAME LINE ③ HAS BEEN DESIGNED TO ACCOMMODATE POTENTIAL DRIFTING SNOW MADE POSSIBLE BY VARYING HEIGHTS IN BUILDING ROOF ELEVATIONS.

NOTE:
 ALL PRE-ENGINEERED FRAMES HAVE BEEN RE-DESIGNED FOR COLLATERAL POINT LOADS AS SPECIFIED IN LETTER FROM LAWSON ELSER, INC. (D'AWAN HENDERSON) DATED, APRIL 14, 2004.

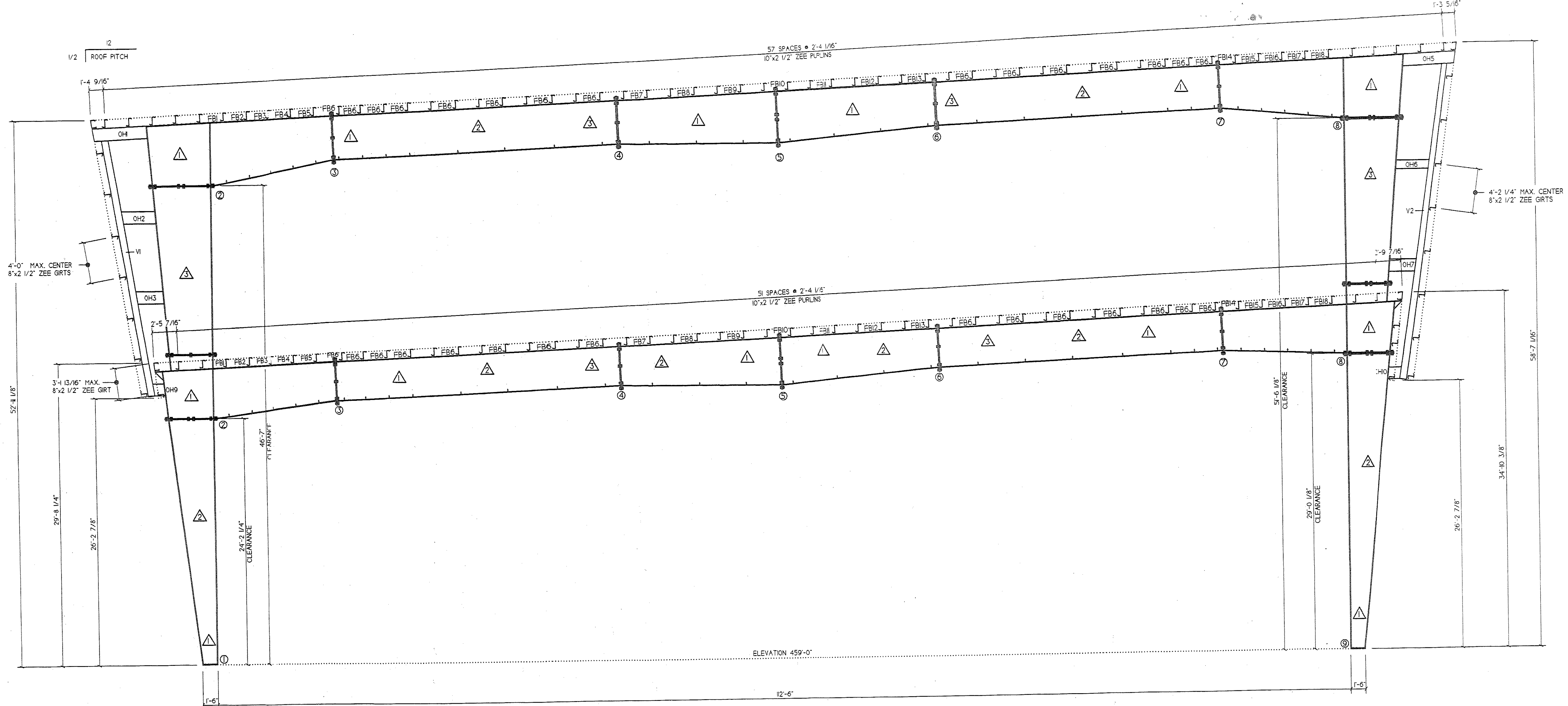
DESIGN COMPLES WITH REQUIREMENTS SPECIFIED BY:
 - METAL BUILDING MANUFACTURERS ASSOCIATION
 - KENTUCKY BUILDING CODE 2003
 - LIGHT GAGE STRUCTURAL STEEL INSTITUTE
 - BOCA

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job number 04-7035
 scale NONE
 date 03-17-04
 drawn by F. JACKSON
 checked by L. BELCHER
 revised APR 30 2004

drawing no.
 5
 of
 9



FRAME DETAIL
FRAME LINE ④

(HIGH FRAME)

SEGMENTS TABLE				
PARTMARK	SEGMENT	TYPE	THICKNESS	WIDTH
C 1	1	WEB	0.325	
C 1	2	WEB	0.325	
C 1	3	WEB	0.325	
C 1	1	OUTSIDE FLG	0.7500	0' 8"
C 1	2	OUTSIDE FLG	0.7500	0' 8"
C 1	3	OUTSIDE FLG	0.7500	0' 10"
C 1	1	INSIDE FLG	0.7500	0' 8"
C 1	2	INSIDE FLG	0.7500	0' 8"
C 1	3	INSIDE FLG	0.7500	0' 10"
C 2	1	WEB	0.2500	
C 2	2	WEB	0.2500	
C 2	3	WEB	0.325	
C 2	1	OUTSIDE FLG	0.7500	0' 10"
C 2	2	OUTSIDE FLG	0.7500	0' 10"
C 2	3	OUTSIDE FLG	0.7500	0' 10"
C 2	1	INSIDE FLG	0.7500	0' 10"
C 2	2	INSIDE FLG	0.7500	0' 10"
C 2	3	INSIDE FLG	0.7500	0' 10"
R 1	1	WEB	0.5000	
R 1	1	OUTSIDE FLG	0.5000	0' 8"
R 1	1	INSIDE FLG	0.5000	0' 8"
R 2	1	WEB	0.5000	
R 2	2	WEB	0.325	
R 2	3	WEB	0.325	
R 2	1	OUTSIDE FLG	0.5000	0' 8"
R 2	2	OUTSIDE FLG	0.6250	0' 8"
R 2	3	OUTSIDE FLG	0.5000	0' 8"
R 2	1	INSIDE FLG	0.325	0' 8"
R 2	2	INSIDE FLG	0.325	0' 8"
R 2	3	INSIDE FLG	0.6250	0' 8"
R 3	1	WEB	0.2500	
R 3	1	OUTSIDE FLG	0.7500	0' 8"
R 3	1	INSIDE FLG	0.5000	0' 8"
R 3	2	INSIDE FLG	0.4375	0' 8"
R 4	1	WEB	0.5000	
R 4	1	OUTSIDE FLG	0.5000	0' 8"
R 4	1	INSIDE FLG	0.5000	0' 8"
R 5	1	WEB	0.5000	
R 5	2	WEB	0.325	
R 5	3	WEB	0.325	
R 5	1	OUTSIDE FLG	0.5000	0' 8"
R 5	2	OUTSIDE FLG	0.6250	0' 8"
R 5	3	OUTSIDE FLG	0.5000	0' 8"
R 5	1	INSIDE FLG	0.325	0' 8"
R 5	2	INSIDE FLG	0.325	0' 8"
R 5	3	INSIDE FLG	0.6250	0' 8"
R 6	1	WEB	0.2500	
R 6	1	OUTSIDE FLG	0.7500	0' 8"
R 6	1	INSIDE FLG	0.5000	0' 8"
R 6	2	INSIDE FLG	0.4375	0' 8"

(LOW FRAME)

SEGMENTS TABLE				
PARTMARK	SEGMENT	TYPE	THICKNESS	WIDTH
C 1	1	WEB	0.325	
C 1	2	WEB	0.325	
C 1	1	OUTSIDE FLG	0.5000	0' 8"
C 1	2	OUTSIDE FLG	0.6250	0' 8"
C 1	1	INSIDE FLG	0.5000	0' 8"
C 1	2	INSIDE FLG	0.6250	0' 8"
C 2	1	WEB	0.325	
C 2	2	WEB	0.325	
C 2	1	OUTSIDE FLG	0.7500	0' 8"
C 2	2	OUTSIDE FLG	0.7500	0' 8"
C 2	1	INSIDE FLG	0.7500	0' 8"
C 2	2	INSIDE FLG	0.7500	0' 8"
R 1	1	WEB	0.325	
R 1	1	OUTSIDE FLG	0.7500	0' 8"
R 1	2	OUTSIDE FLG	0.3750	0' 8"
R 1	1	INSIDE FLG	0.7500	0' 8"
R 1	2	INSIDE FLG	0.3750	0' 8"
R 2	1	WEB	0.325	
R 2	2	WEB	0.2500	
R 2	1	OUTSIDE FLG	0.325	0' 8"
R 2	2	OUTSIDE FLG	0.3750	0' 8"
R 2	3	OUTSIDE FLG	0.6250	0' 8"
R 2	1	INSIDE FLG	0.325	0' 8"
R 2	2	INSIDE FLG	0.325	0' 8"
R 2	3	INSIDE FLG	0.3750	0' 8"
R 3	1	WEB	0.325	
R 3	2	WEB	0.2500	
R 3	1	OUTSIDE FLG	0.6250	0' 8"
R 3	2	OUTSIDE FLG	0.3750	0' 8"
R 3	3	OUTSIDE FLG	0.325	0' 8"
R 4	1	WEB	0.5000	
R 4	2	WEB	0.325	
R 4	1	OUTSIDE FLG	0.6250	0' 8"
R 4	2	OUTSIDE FLG	0.5000	0' 8"
R 4	1	INSIDE FLG	0.6250	0' 8"
R 5	1	WEB	0.325	
R 5	2	WEB	0.325	
R 5	3	WEB	0.2500	
R 5	1	OUTSIDE FLG	0.325	0' 8"
R 5	2	OUTSIDE FLG	0.325	0' 8"
R 5	3	OUTSIDE FLG	0.6250	0' 8"
R 5	1	INSIDE FLG	0.325	0' 8"
R 5	2	INSIDE FLG	0.325	0' 8"
R 5	3	INSIDE FLG	0.325	0' 8"
R 6	1	WEB	0.2500	
R 6	1	OUTSIDE FLG	0.6250	0' 8"
R 6	1	INSIDE FLG	0.325	0' 8"

(HIGH FRAME)

JOINT INFORMATION					
JOINT	PARTMARK	DEPTH	THICKNESS	BOLT QTY	DESCRIPTION
1	C 1	1 4-1/2	0.325	8	ABLOX30
2	C 1	5 8	0.325	12	H.2X375
9	C 2	1 4-1/2	0.2500	8	ABLOX30
8	C 2	5 8	0.325	12	H.2X375
2	R 1	5 8	0.5000		
3	R 1	4 1	0.5000	10	H.2X325
3	R 2	4 1	0.5000		
4	R 2	4 1	0.325	10	H.2X375
4	R 3	4 1	0.2500		
5	R 3	4 0	0.2500		
8	R 4	5 8	0.5000		
7	R 4	4 1	0.5000	10	H.2X325
7	R 5	4 1	0.5000		
6	R 5	4 1	0.325	10	H.2X375
6	R 6	4 1	0.2500		
5	R 6	4 0	0.2500	12	H.2X325

(LOW FRAME)

JOINT INFORMATION					
JOINT	PARTMARK	DEPTH	THICKNESS	BOLT QTY	DESCRIPTION
1	C 1	1 5	0.325	8	ABLOX30
2	C 1	4 4	0.325	12	H.2X325
9	C 2	1 5	0.325	8	ABLOX30
8	C 2	4 5-1/2	0.325	12	H.2X375
2	R 1	4 4	0.325		
3	R 1	3 9	0.325	10	H.2X325
3	R 2	3 9	0.325		
4	R 2	3 9	0.2500	10	H.2X325
4	R 3	3 9	0.2500		
5	R 3	4 7	0.2500		
8	R 4	4 5-1/2	0.5000		
7	R 4	3 9	0.325	10	H.2X325
7	R 5	3 9	0.325		
6	R 5	3 9	0.2500	10	H.2X325
6	R 6	3 9	0.2500		
5	R 6	4 7	0.2500	12	H.2X325

FLANGE BRACE TABLE			
PARTMARK	PLACEMENT	QTY/FRAME	QTY/BLDG
FB 1	NS/FS	2	20
FB 2	NS/FS	2	20
FB 3	NS/FS	2	20
FB 4	NS/FS	2	20
FB 5	NS/FS	2	20
FB 6	NS/FS	30	300
FB 7	NS/FS	2	20
FB 8	NS/FS	2	20
FB 9	NS/FS	2	20
FB0	NS/FS	2	20
FB1	NS/FS	2	20
FB2	NS/FS	2	20
FB3	NS/FS	2	20
FB4	NS/FS	2	20
FB5	NS/FS	2	20
FB6	NS/FS	2	20
FB7	NS/FS	2	20
FB8	NS/FS	2	20

DESIGN LOADS
 FRAME LOAD - 20 PSF
 PURLIN LOAD - 20 PSF
 SNOW LOAD - 20 PSF
 WIND LOAD - 90 MPH
 EXPOSURE - B
 COLLATERAL LOAD FRAMES - 2 PSF
 COLLATERAL LOAD FRAMES - 15 PSF
 DEAD LOAD (ACTUAL)
 MAIN FRAME DEFLECTION CRITERIA - L/80
 SEISMIC - SEISMIC DESIGN CATEGORY B
 SPECTRAL RESPONSE - COEFFICIENT S = J5,
 IN ACCORDANCE WITH THE KENTUCKY BUILDING CODE

DESIGN COMPLIES WITH REQUIREMENTS SPECIFIED BY:
 - METAL BUILDING MANUFACTURERS ASSOCIATION
 - KENTUCKY BUILDING CODE 2003
 - LIGHT GAGE STRUCTURAL STEEL INSTITUTE
 - BOCA

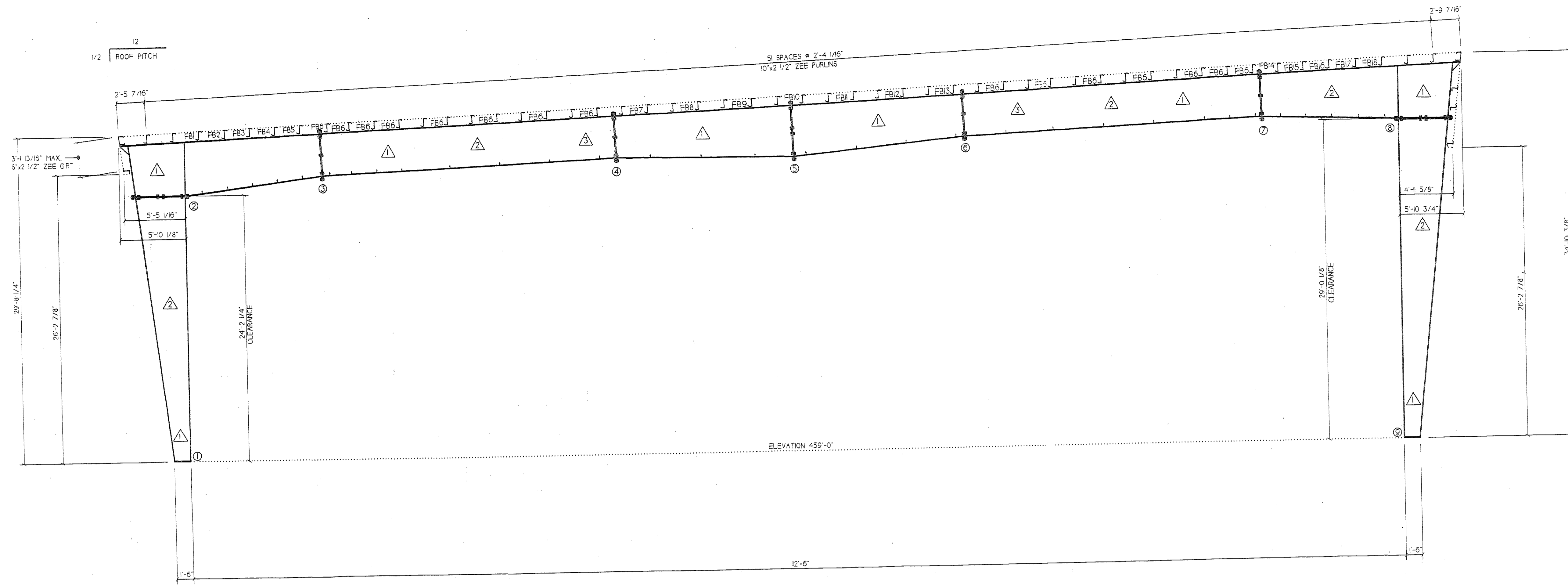
NOTES:
 1) FRAME LINE ④ HAS BEEN DESIGNED TO SUPPORT ADDITIONAL LOADS AS REQUESTED PER ARCHITECTURAL DRAWINGS S4.01 AND S5.02.
 2) FRAME LINE ④ HAVE BEEN DESIGNED TO ACCOMMODATE POTENTIAL DRIFTING SNOW MADE POSSIBLE BY VARYING HEIGHTS IN BUILDING ROOF ELEVATIONS.
 NOTE:
 ALL PRE-ENGINEERED FRAMES HAVE BEEN RE-DESIGNED FOR COLLATERAL PONT LOADS AS SPECIFIED IN LETTER FROM "LAWSON ELSER, NC" (D'WAN HENDERSHOT) DATED, APRIL 14, 2004.

Bluegrass Steel Buildings, Inc.
 3161 Development Way
 Sellersburg, Indiana 47172
 (812) 246-0237
 fax (812) 246-0262

WHITTENBERG CONSTRUCTION
 PROJECT: U OF L NATATORIUM
 job number: 04-7035

customer: U OF L NATATORIUM
 Job number 04-7035
 scale NONE
 date 03-17-04
 drawn by F. JACKSON
 checked by L. BELCHER
 revised APR 30 2004

drawing no. 6 of 9



FRAME DETAIL
FRAME LINE 5 6 7 8 9

SEGMENTS TABLE				
PARTMARK	SEGMENT	TYPE	THICKNESS	WIDTH
C 1	1	WEB	0.325	
C 1	2	WEB	0.325	
C 1	1	OUTSIDE FLG	0.5000	0' 8"
C 1	2	OUTSIDE FLG	0.6250	0' 8"
C 1	1	INSIDE FLG	0.5000	0' 8"
C 1	2	INSIDE FLG	0.6250	0' 8"
C 2	1	WEB	0.325	
C 2	2	WEB	0.325	
C 2	1	OUTSIDE FLG	0.7500	0' 8"
C 2	2	OUTSIDE FLG	0.7500	0' 8"
C 2	1	INSIDE FLG	0.7500	0' 8"
C 2	2	INSIDE FLG	0.7500	0' 8"
R 1	1	WEB	0.325	
R 1	1	OUTSIDE FLG	0.7500	0' 8"
R 1	2	OUTSIDE FLG	0.3750	0' 8"
R 1	1	INSIDE FLG	0.7500	0' 8"
R 1	2	INSIDE FLG	0.3750	0' 8"
R 2	1	WEB	0.325	
R 2	2	WEB	0.325	
R 2	3	WEB	0.2500	
R 2	1	OUTSIDE FLG	0.325	0' 8"
R 2	2	OUTSIDE FLG	0.3750	0' 8"
R 2	3	OUTSIDE FLG	0.6250	0' 8"
R 2	1	INSIDE FLG	0.325	0' 8"
R 2	2	INSIDE FLG	0.325	0' 8"
R 2	3	INSIDE FLG	0.3750	0' 8"
R 3	1	WEB	0.2500	
R 3	1	OUTSIDE FLG	0.6250	0' 8"
R 3	1	INSIDE FLG	0.3750	0' 8"
R 3	2	INSIDE FLG	0.325	0' 8"
R 4	1	WEB	0.5000	
R 4	2	WEB	0.325	
R 4	1	OUTSIDE FLG	0.6250	0' 8"
R 4	2	OUTSIDE FLG	0.5000	0' 8"
R 4	1	INSIDE FLG	0.6250	0' 8"
R 5	1	WEB	0.325	
R 5	2	WEB	0.325	
R 5	3	WEB	0.2500	
R 5	1	OUTSIDE FLG	0.325	0' 8"
R 5	2	OUTSIDE FLG	0.325	0' 8"
R 5	3	OUTSIDE FLG	0.6250	0' 8"
R 5	1	INSIDE FLG	0.325	0' 8"
R 5	2	INSIDE FLG	0.325	0' 8"
R 5	3	INSIDE FLG	0.325	0' 8"
R 6	1	WEB	0.2500	
R 6	1	OUTSIDE FLG	0.6250	0' 8"
R 6	1	INSIDE FLG	0.325	0' 8"

JOINT INFORMATION					
JOINT	PARTMARK	DEPTH	THICKNESS	BOLT QTY	DESCRIPTION
1	C 1	1' 5"	0.325	8	AB10X30
2	C 1	4' 4"	0.325	12	H12X325
9	C 2	1' 5"	0.325	8	AB10X30
8	C 2	4' 5-1/2"	0.325	12	H12X375
2	R 1	4' 4"	0.325		
3	R 1	3' 9"	0.325	10	H12X325
3	R 2	3' 9"	0.2500	10	H12X325
4	R 2	3' 9"	0.2500		
4	R 3	4' 7"	0.2500		
5	R 3	4' 7"	0.5000		
8	R 4	4' 5-1/2"	0.325	10	H12X325
7	R 4	3' 9"	0.325		
7	R 5	3' 9"	0.2500	10	H12X325
6	R 5	3' 9"	0.2500		
6	R 6	3' 9"	0.2500		
5	R 6	4' 7"	0.2500	12	H12X325

FLANGE BRACE TABLE			
PARTMARK	PLACEMENT	QTY/FRAME	QTY/BLDG
FB 1	NS/FS	2	20
FB 2	NS/FS	2	20
FB 3	NS/FS	2	20
FB 4	NS/FS	2	20
FB 5	NS/FS	2	20
FB 6	NS/FS	30	300
FB 7	NS/FS	2	20
FB 8	NS/FS	2	20
FB 9	NS/FS	2	20
FB0	NS/FS	2	20
FB1	NS/FS	2	20
FB2	NS/FS	2	20
FB3	NS/FS	2	20
FB4	NS/FS	2	20
FB5	NS/FS	2	20
FB6	NS/FS	2	20
FB7	NS/FS	2	20
FB8	NS/FS	2	20

DESIGN LOADS
 FRAME LOAD - 20 PSF
 PURLIN LOAD - 20 PSF
 SNOW LOAD - 20 PSF
 WIND LOAD - 90 MPH
 EXPOSURE - B
 COLLATERAL LOAD FRAMES - 2 PSF
 COLLATERAL LOAD FRAMES - 15 PSF
 DEAD LOAD (ACTUAL)
 MAIN FRAME DEFLECTION CRITERIA - L/180
 SEISMIC - SEISMIC DESIGN CATEGORY B
 SPECTRAL RESPONSE - COEFFICIENT S = 1.3
 IN ACCORDANCE WITH THE KENTUCKY BUILDING CODE

NOTES:
 1) FRAME LINE 1 6 HAS BEEN DESIGNED TO SUPPORT ADDITIONAL LOADS AS REQUESTED PER ARCHITECTURAL DRAWINGS S4.01 AND S5.02.
 2) FRAME LINE 4 5 HAVE BEEN DESIGNED TO ACCOMMODATE POTENTIAL DRIFTING SNOW MADE POSSIBLE BY VARYING HEIGHTS IN BUILDING ROOF ELEVATIONS.
 NOTE:
 ALL PRE-ENGINEERED FRAMES HAVE BEEN RE-DESIGNED FOR COLLATERAL POINT LOADS AS SPECIFIED IN LETTER FROM LAMSON ELSER, INC. (DRAWN HENDERSHOT) DATED, APRIL 14, 2004.

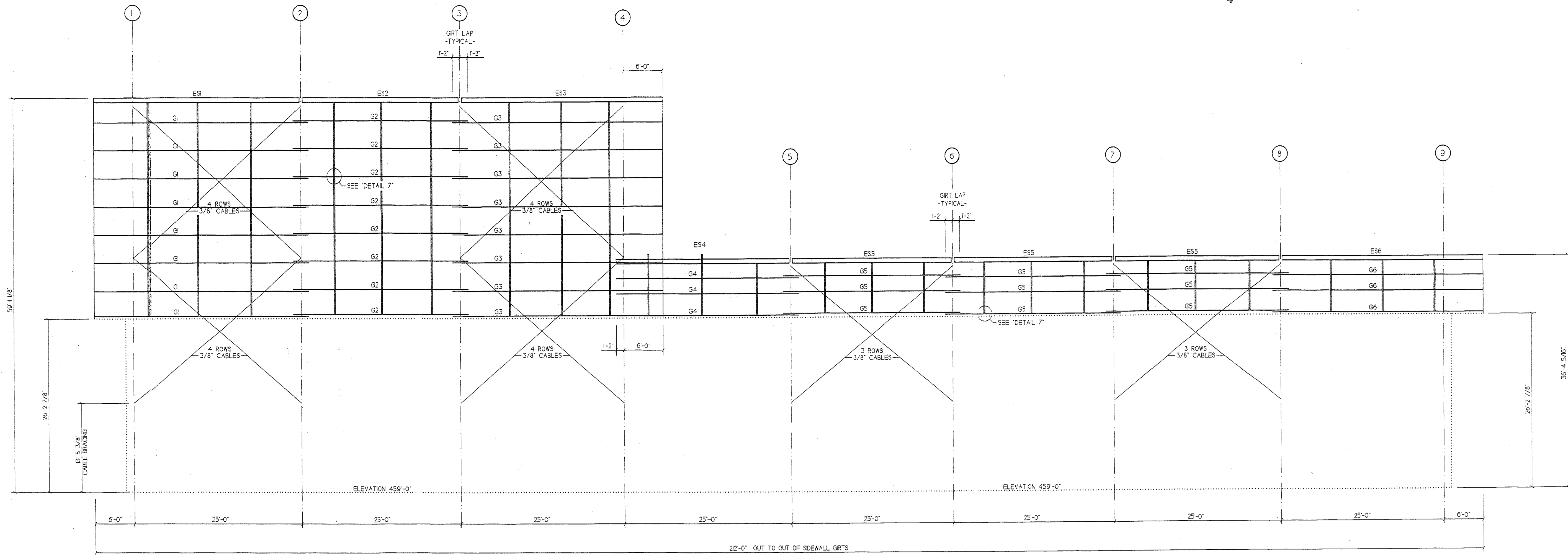
DESIGN COMPLES WITH REQUIREMENTS SPECIFIED BY:
 - METAL BUILDING MANUFACTURERS ASSOCIATION
 - KENTUCKY BUILDING CODE 2003
 - LIGHT GAGE STRUCTURAL STEEL INSTITUTE
 - BOCA

Bluegrass Steel Buildings, Inc.
 3161 Development Way
 Sellersburg, Indiana 47172
 (812) 246-0237
 fax (812) 246-0262

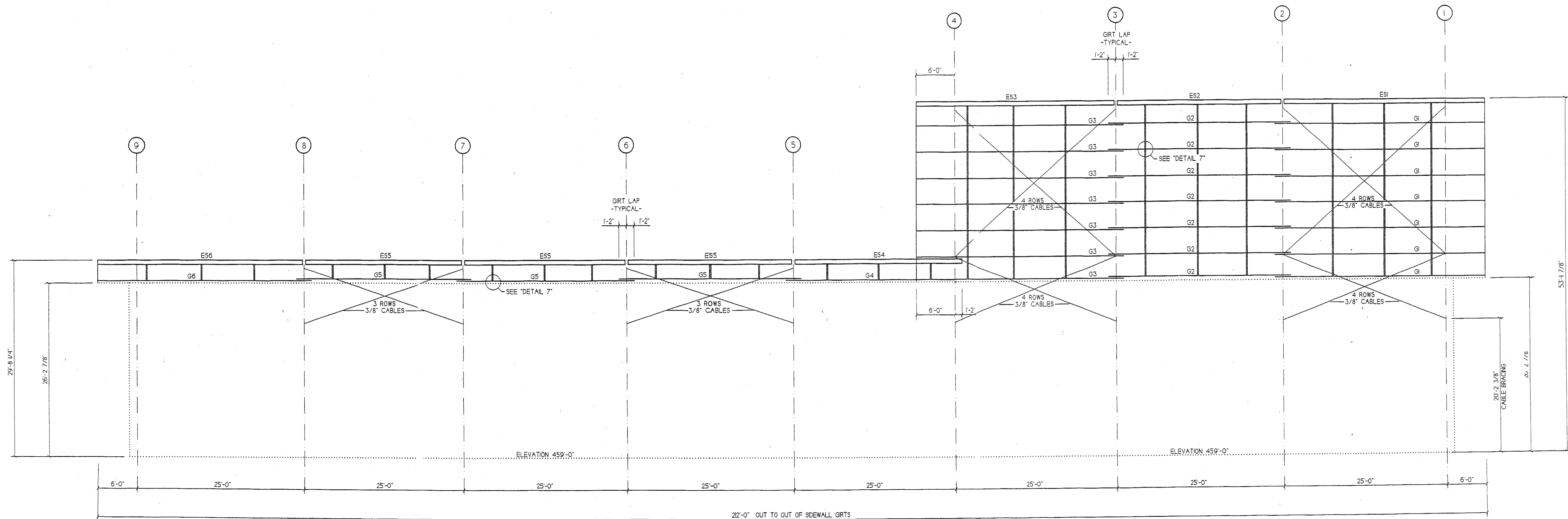
WHITTENBERG CONSTRUCTION
 PROJECT
 U OF L NATATORIUM
 Job number: 04-7035

customer
 job number 04-7035
 scale NONE
 date 03-17-04
 drawn by F. JACKSON
 checked by L. BELCHER
 revised APR 30 2004

drawing no.
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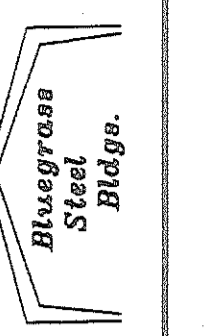
EAST SIDEWALL FRAMING ELEVATION



WEST SIDEWALL FRAMING ELEVATION

Bluegrass Steel Buildings, Inc.

3161 Development Way
Sellersburg, Indiana 47172
(812) 246-0237
fax (812) 246-0262



Customer: WHITTENBERG CONSTRUCTION

Project: U OF L NATATORIUM

Job number: 04-7035

Job number: 04-7035

Scale: NONE

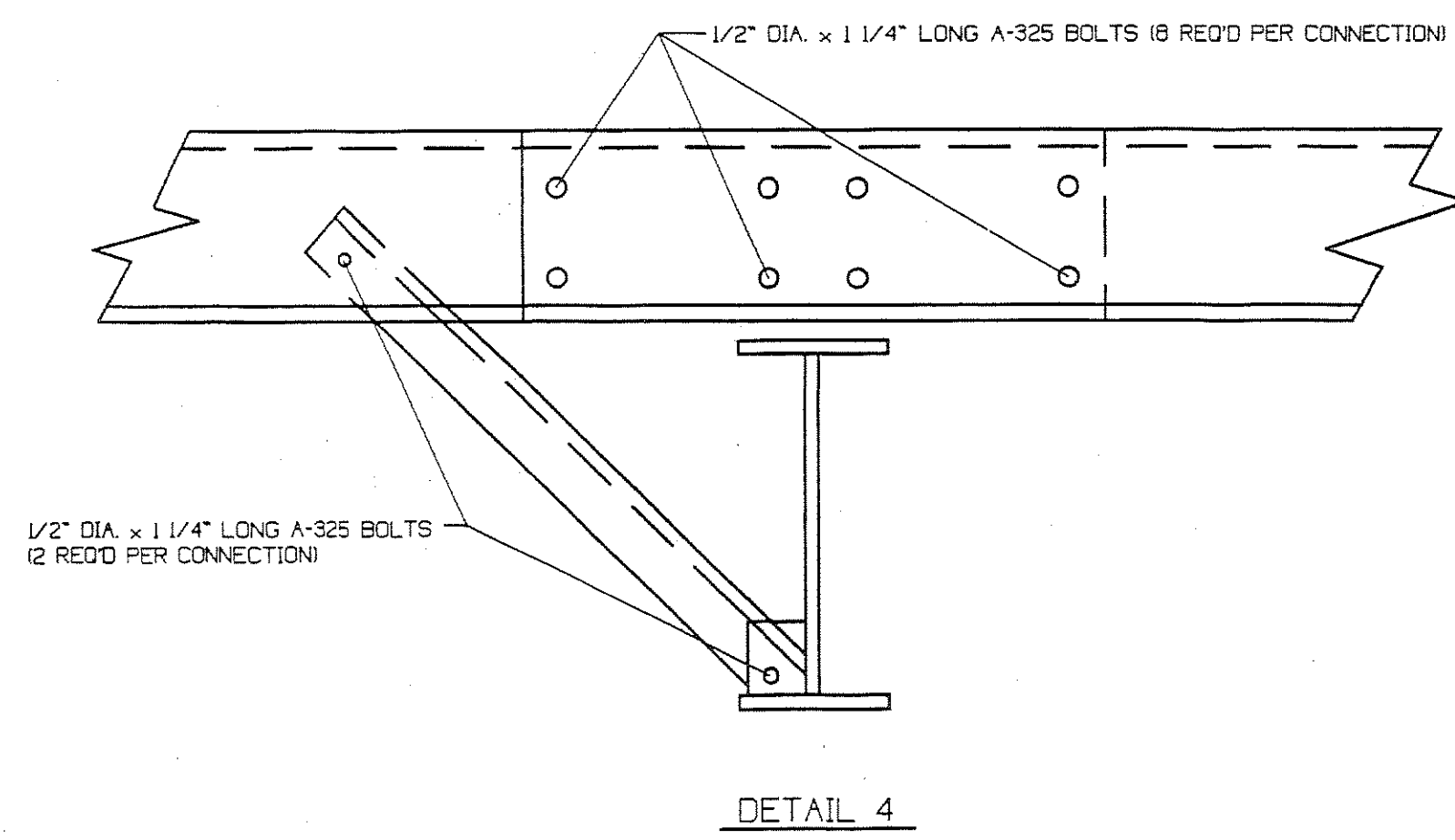
Date: 03-17-04

Drawn by: F. JACKSON

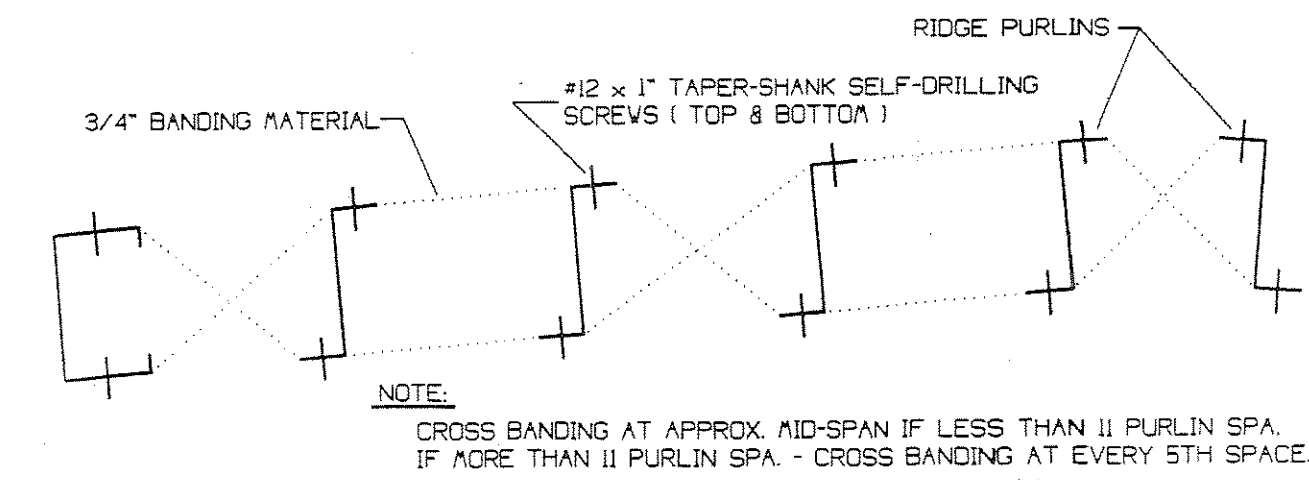
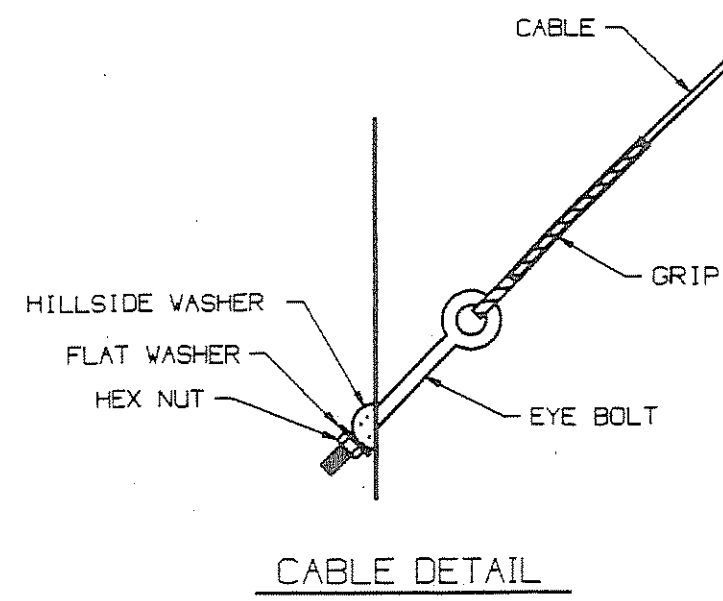
Checked by: L. BELCHER

Revised: APR 30 2004

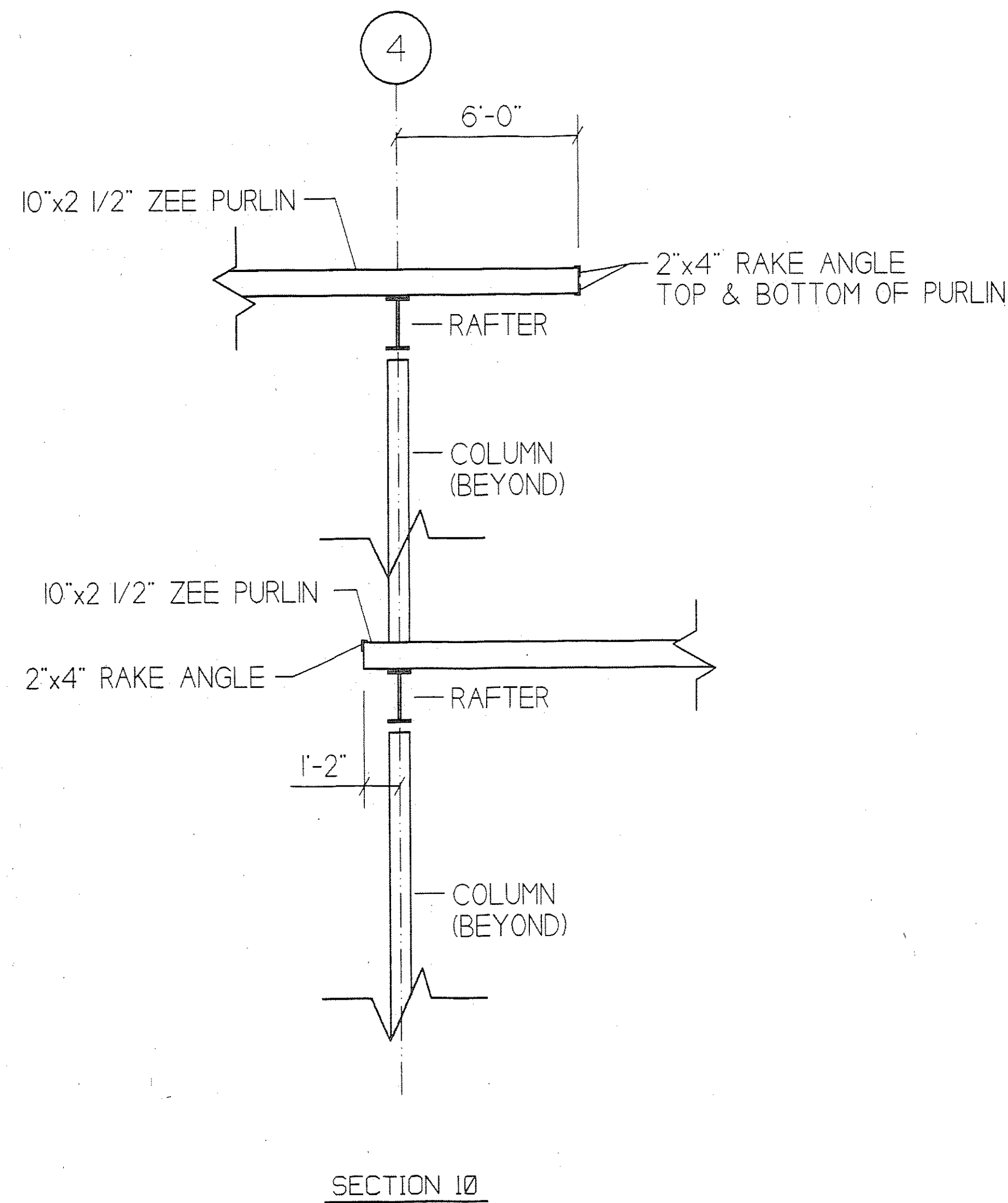
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of 9



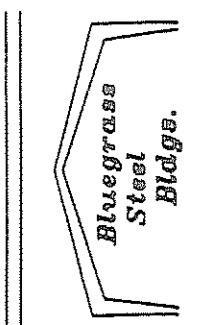
ERECTOR NOTE:
 FIELD CUT CABLES TO LENGTHS SHOWN ON DRAWINGS
 -- THEN ATTACH GRIPS AND EYEBOLTS.
 1/4" CABLES REQUIRE 1/4" GRIPS & 1/2" EYEBOLTS.
 3/8" CABLES REQUIRE 3/8" GRIPS & 3/4" EYEBOLTS.



PURLIN STRAPPING S.S.R.
DETAIL 7



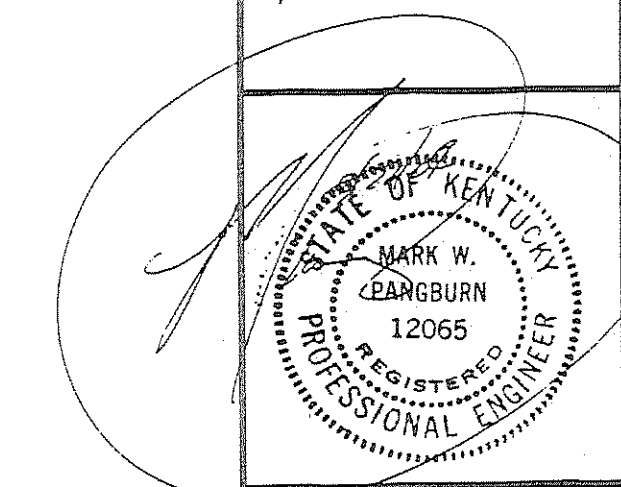
Bluegrass Steel Buildings, Inc.



(812) 246-9287
 fax (812) 246-9282
 3161 Development Way
 Sellersburg, Indiana 47172

WHITTENBERG CONSTRUCTION

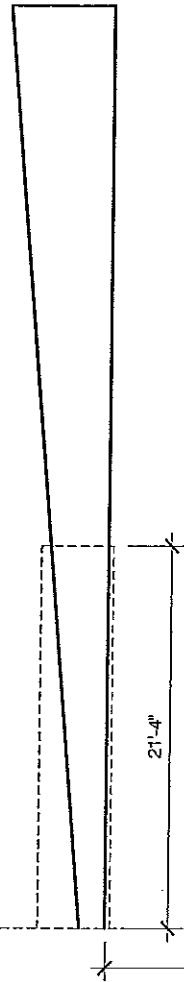
PROJECT
U OF L NATATORIUM
 job number
04-7035



customer
 job number **04-7035**
 scale **NONE**
 date **03-17-04**
 drawn by **F. JACKSON**
 checked by **L. BELCHER**
 revised **APR 30 2004**

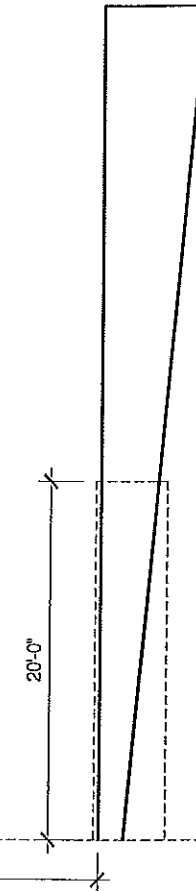
drawing no.
9
 of
9

HIGH



112'-6"

HIGH BENT



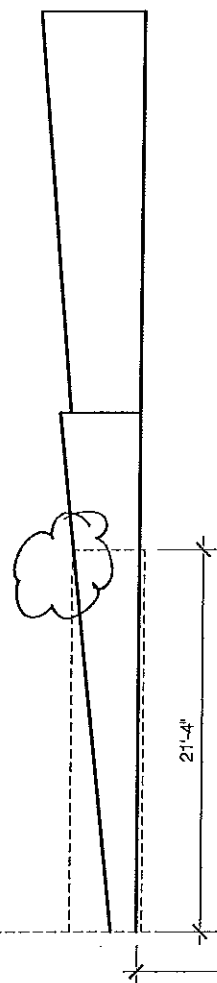
LOW

50 f9

THIS BENT OK

HIGH

CONFLICT

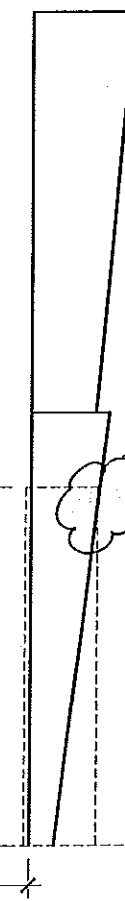


112'-6"

COMBINATION BENT

20'-0"

CONFLICT



LOW

6 of 9

6 of 9

