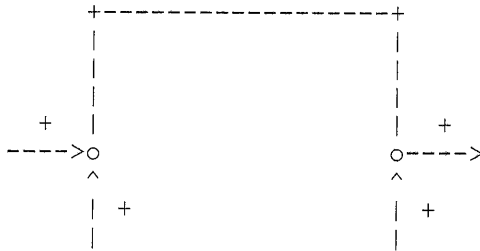


\*\*\*\*\* PORTAL FRAME DESIGN \*\*\*\*\*  
REACTIONS



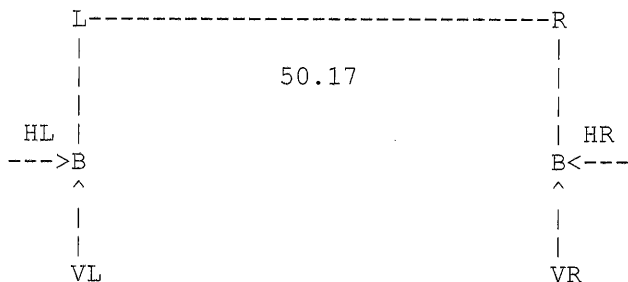
*PRELIMINARY REACTIONS  
"MINACAPPELLI'S"*

WALL	BRACED BAY #	LOAD NAME	DIST FROM EWC (FT)	DIST FROM SWA (FT)	HORIZONTAL (KIPS)	VERTICAL (KIPS)
SWA	2	WLB+	17.83		-1.12	-1.12
SWA	2	WLB+	39.83		-1.12	1.93
SWA	2	WLB-	17.83		1.12	1.93
SWA	2	WLB-	39.83		1.12	-1.12
SWA	2	SEI+	17.83		-0.38	-0.12
SWA	2	SEI+	39.83		-0.38	0.93
SWA	2	SEI-	17.83		0.38	0.93
SWA	2	SEI-	39.83		0.38	-0.12
SWB	2	WLB+	17.83		-1.17	-1.35
SWB	2	WLB+	39.83		-1.17	2.30
SWB	2	WLB-	17.83		1.17	2.30
SWB	2	WLB-	39.83		1.17	-1.35
SWB	2	SEI+	17.83		-0.39	-0.13
SWB	2	SEI+	39.83		-0.39	1.07
SWB	2	SEI-	17.83		0.39	1.07
SWB	2	SEI-	39.83		0.39	-0.13
SWA	5	WLB+	81.83		-1.12	-1.31
SWA	5	WLB+	101.83		-1.12	2.04
SWA	5	WLB-	81.83		1.12	2.04
SWA	5	WLB-	101.83		1.12	-1.31
SWA	5	SEI+	81.83		-0.38	-0.21
SWA	5	SEI+	101.83		-0.38	0.94
SWA	5	SEI-	81.83		0.38	0.94
SWA	5	SEI-	101.83		0.38	-0.21
SWB	5	WLB+	81.83		-1.17	-1.57
SWB	5	WLB+	101.83		-1.17	2.44
SWB	5	WLB-	81.83		1.17	2.44
SWB	5	WLB-	101.83		1.17	-1.57
SWB	5	SEI+	81.83		-0.39	-0.23
SWB	5	SEI+	101.83		-0.39	1.10
SWB	5	SEI-	81.83		0.39	1.10
SWB	5	SEI-	101.83		0.39	-0.23

-----  
DESIGN FRAME #1  
PRELIMINARY FRAME COLUMN REACTIONS  
=====

FRAME LINES: 1

LEFT EH= 16.000 FT. LEFT RS: 0.500/12  
RIGHT EH= 18.090 FT. SINGLE SLOPE FRAME



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	0.90	2.01	0.90	2.14
COL	1.38	2.49	1.38	2.51
LL	3.30	5.96	3.34	6.03
SL	1.37	2.48	1.39	2.51
WLL	-8.38	-11.95	-3.10	-9.60
WLR	0.00	-5.84	-6.47	-7.78
WLL1	-2.40	-6.46	-2.64	-6.17
WLR1	-0.33	-2.47	-0.23	-2.24
WEW	-3.51	-11.09	-3.73	-10.46
SEIL	-0.20	-0.12	0.16	0.12
SEIR	0.20	0.12	-0.16	-0.12
WLL2	-7.27	-7.33	-2.01	-5.30
WLR2	1.13	-1.20	-5.36	-3.50
WLL3	-3.51	-11.09	-3.73	-10.46
WLR3	-1.45	-7.10	-1.34	-6.53
COMB # 1	5.58	10.46	5.62	10.67
COMB # 2	3.65	6.98	3.67	7.16
COMB # 3	-7.84	-10.75	-2.56	-8.32
COMB # 5	0.54	-4.64	-5.93	-6.50
COMB # 19	-2.97	-9.89	-3.19	-9.18

LOAD COMBINATIONS:

COMB # 1--> 1.00 X(DL+ LL+ COL)  
COMB # 2--> 1.00 X(DL+ SL+ COL)  
COMB # 3--> 1.00 X(0.60DL+ WLL)

DESIGN FRAME #1  
PRELIMINARY FRAME COLUMN REACTIONS  
=====

LOAD COMBINATIONS: (CONT'D)

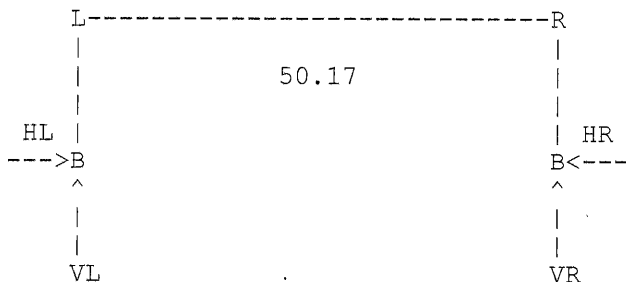
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COMB # 5--> 1.00 X(0.60DL+ WLR)  
COMB # 19--> 1.00 X(0.60DL+ WEW)

DESIGN FRAME #2  
PRELIMINARY FRAME COLUMN REACTIONS

=====

FRAME LINES:    2    3    4    5    6

LEFT EH= 16.000 FT.    LEFT RS: 0.500/12  
RIGHT EH= 18.090 FT.    SINGLE SLOPE FRAME



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	1.01	2.26	1.01	2.38
COL	1.55	2.76	1.55	2.76
LL	3.70	6.60	3.75	6.65
SL	1.53	2.75	1.57	2.77
WLL	-9.32	-13.22	-3.49	-10.52
WLR	-0.14	-6.46	-7.28	-8.54
WLL1	-2.73	-7.15	-2.99	-6.77
WLR1	-0.39	-2.73	-0.28	-2.45
WEW	-4.00	-12.27	-4.24	-11.47
SEIL	-0.21	-0.13	0.18	0.13
SEIR	0.21	0.13	-0.18	-0.13
WLL2	-8.04	-8.11	-2.23	-5.81
WLR2	1.15	-1.33	-6.01	-3.85
WLL3	-4.00	-12.27	-4.24	-11.47
WLR3	-1.67	-7.85	-1.55	-7.16
COMB # 1	6.26	11.61	6.31	11.79
COMB # 2	4.09	7.76	4.12	7.92
COMB # 3	-8.71	-11.86	-2.89	-9.09
COMB # 5	0.46	-5.11	-6.68	-7.11
COMB # 19	-3.40	-10.91	-3.64	-10.04

LOAD COMBINATIONS:

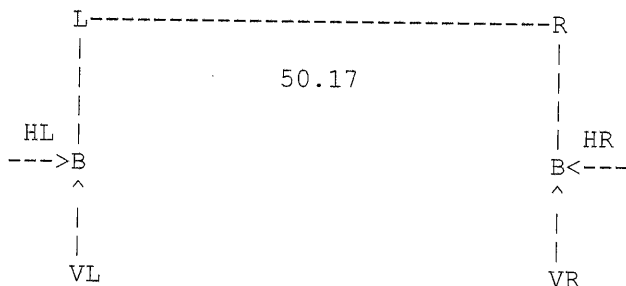
- COMB # 1--> 1.00 X(DL+ LL+ COL)
- COMB # 2--> 1.00 X(DL+ SL+ COL)
- COMB # 3--> 1.00 X(0.60DL+ WLL)
- COMB # 5--> 1.00 X(0.60DL+ WLR)
- COMB # 19--> 1.00 X(0.60DL+ WEW)

DESIGN FRAME #3  
PRELIMINARY FRAME COLUMN REACTIONS

=====

FRAME LINES: 7

LEFT EH= 16.000 FT.      LEFT RS: 0.500/12  
RIGHT EH= 18.090 FT.     SINGLE SLOPE FRAME



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	0.90	2.04	0.90	2.19
COL	1.37	2.37	1.37	2.38
LL	3.26	5.68	3.30	5.73
SL	1.35	2.36	1.38	2.39
WLL	-7.94	-11.38	-2.93	-9.18
WLR	-0.05	-5.57	-6.21	-7.43
WLL1	-2.29	-6.15	-2.52	-5.90
WLR1	-0.31	-2.35	-0.22	-2.14
WEW	-3.34	-10.56	-3.55	-10.00
SEIL	-0.19	-0.11	0.16	0.11
SEIR	0.19	0.11	-0.16	-0.11
WLL2	-6.89	-6.98	-1.89	-5.07
WLR2	1.02	-1.15	-5.15	-3.34
WLL3	-3.34	-10.56	-3.55	-10.00
WLR3	-1.37	-6.76	-1.27	-6.24
COMB # 1	5.52	10.09	5.56	10.31
COMB # 2	3.61	6.78	3.64	6.97
COMB # 3	-7.40	-10.15	-2.39	-7.87
COMB # 5	0.49	-4.34	-5.67	-6.11
COMB # 19	-2.80	-9.34	-3.02	-8.68

LOAD COMBINATIONS:

- COMB # 1--> 1.00 X (DL+ LL+ COL)
- COMB # 2--> 1.00 X (DL+ SL+ COL)
- COMB # 3--> 1.00 X (0.60DL+ WLL)
- COMB # 5--> 1.00 X (0.60DL+ WLR)
- COMB # 19--> 1.00 X (0.60DL+ WEW)

RUFFIN  
03-Nov-2011  
ERIC

VAL030  
07:28:28  
Release 36.4

RUFFIN BUILDING SYSTEMS  
VALCOM INC

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ENDWALL DESIGN SYSTEM  
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\*\*\*\*\* ENDWALL C COLUMN DESIGN \*\*\*\*\*

PRELIMINARY COLUMN REACTIONS  
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COLUMN LOCATIONS (FT) ARE FROM SIDEWALL A.

APPLIED LOAD CASES AND COMBINATIONS	COL @ 15.08		COL @ 35.08	
	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)
DL	0.00	0.16	0.00	0.20
COL	0.00	0.00	0.00	0.00
LL	0.00	0.00	0.00	0.00
SL	0.00	0.00	0.00	0.00
WL+	3.07	0.00	3.21	0.00
WL-	-3.39	0.00	-3.55	0.00
DL + LL + COL	0.00	0.16	0.00	0.20
DL + SL + COL	0.00	0.16	0.00	0.20
0.6DL + WL+	3.07	0.10	3.21	0.12
0.6DL + WL-	-3.39	0.10	-3.55	0.12
DL+0.75 (SL+COL+WL+)	2.30	0.16	2.41	0.20
DL+0.75 (SL+COL+WL-)	-2.54	0.16	-2.67	0.20
DL+0.75 (LL+COL+WL+)	2.30	0.16	2.41	0.20
DL+0.75 (LL+COL+WL-)	-2.54	0.16	-2.67	0.20

RUFFIN  
03-Nov-2011  
ERIC

VAL030  
07:28:29  
Release 36.4

RUFFIN BUILDING SYSTEMS  
VALCOM INC

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ENDWALL DESIGN SYSTEM  
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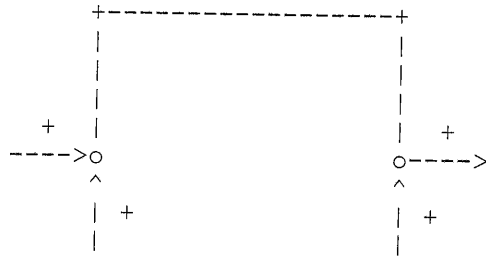
\*\*\*\*\* ENDWALL D COLUMN DESIGN \*\*\*\*\*

PRELIMINARY COLUMN REACTIONS  
-----

COLUMN LOCATIONS (FT) ARE FROM SIDEWALL A.

APPLIED LOAD CASES AND COMBINATIONS	COL @ 15.08		COL @ 35.08	
	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)
DL	0.00	0.16	0.00	0.20
COL	0.00	0.00	0.00	0.00
LL	0.00	0.00	0.00	0.00
SL	0.00	0.00	0.00	0.00
WL+	3.07	0.00	3.21	0.00
WL-	-3.39	0.00	-3.55	0.00
DL + LL + COL	0.00	0.16	0.00	0.20
DL + SL + COL	0.00	0.16	0.00	0.20
0.6DL + WL+	3.07	0.10	3.21	0.12
0.6DL + WL-	-3.39	0.10	-3.55	0.12
DL+0.75(SL+COL+WL+)	2.30	0.16	2.41	0.20
DL+0.75(SL+COL+WL-)	-2.54	0.16	-2.67	0.20
DL+0.75(LL+COL+WL+)	2.30	0.16	2.41	0.20
DL+0.75(LL+COL+WL-)	-2.54	0.16	-2.67	0.20

\*\*\*\*\* PORTAL FRAME DESIGN \*\*\*\*\*  
REACTIONS



WALL	BRACED BAY #	LOAD NAME	DIST FROM EWC (FT)	DIST FROM SWA (FT)	HORIZONTAL (KIPS)	VERTICAL (KIPS)
SWA	2	WLB+	17.83		-1.12	-1.12
SWA	2	WLB+	39.83		-1.12	1.93
SWA	2	WLB-	17.83		1.12	1.93
SWA	2	WLB-	39.83		1.12	-1.12
SWA	2	SEI+	17.83		-0.38	-0.12
SWA	2	SEI+	39.83		-0.38	0.93
SWA	2	SEI-	17.83		0.38	0.93
SWA	2	SEI-	39.83		0.38	-0.12
SWB	2	WLB+	17.83		-1.17	-1.35
SWB	2	WLB+	39.83		-1.17	2.30
SWB	2	WLB-	17.83		1.17	2.30
SWB	2	WLB-	39.83		1.17	-1.35
SWB	2	SEI+	17.83		-0.39	-0.13
SWB	2	SEI+	39.83		-0.39	1.07
SWB	2	SEI-	17.83		0.39	1.07
SWB	2	SEI-	39.83		0.39	-0.13
SWA	5	WLB+	81.83		-1.12	-1.31
SWA	5	WLB+	101.83		-1.12	2.04
SWA	5	WLB-	81.83		1.12	2.04
SWA	5	WLB-	101.83		1.12	-1.31
SWA	5	SEI+	81.83		-0.38	-0.21
SWA	5	SEI+	101.83		-0.38	0.94
SWA	5	SEI-	81.83		0.38	0.94
SWA	5	SEI-	101.83		0.38	-0.21
SWB	5	WLB+	81.83		-1.17	-1.57
SWB	5	WLB+	101.83		-1.17	2.44
SWB	5	WLB-	81.83		1.17	2.44
SWB	5	WLB-	101.83		1.17	-1.57
SWB	5	SEI+	81.83		-0.39	-0.23
SWB	5	SEI+	101.83		-0.39	1.10
SWB	5	SEI-	81.83		0.39	1.10
SWB	5	SEI-	101.83		0.39	-0.23