

FAX TRANSMITTAL

RUFFIN BUILDING SYSTEMS

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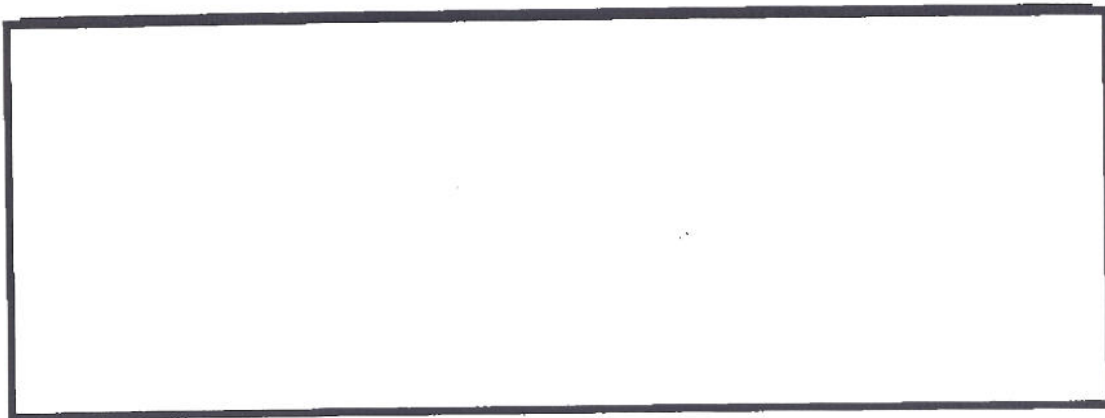
SALES FAX: 1-318-428-8360
COMPONENTS FAX: 428-8913

DATE: 1/11/2012

FAX# 985-641-5950

TO: *Chuck Dammon*

FROM: ERIC STEPHENS
PAGES INCLUDING COVER SHEET *18*



REACOUT

♀
RUFFIN (37.4)
11-Jan-2012
DARREN

DWES91
09:52:15
Release 36.4

VALCOM INC

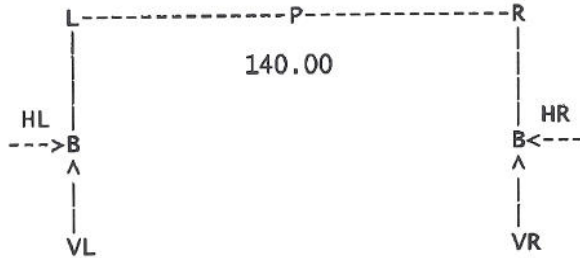
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DESIGN FRAME #1
PRELIMINARY FRAME COLUMN REACTIONS

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FRAME LINES: 1

LEFT EH= 20.500 FT. LEFT RS: 1.170/12
RIGHT EH= 20.500 FT. RIGHT RS: 1.170/12
DISTANCE TO PEAK FROM LEFT SIDE: 70.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	4.87	5.21	4.87	5.21
COL	4.50	3.50	4.50	3.50
LL	10.80	8.39	10.87	8.41
SL	3.12	2.44	3.17	2.46
WLL	-32.22	-25.28	-23.85	-19.76
WLR	-23.85	-19.76	-32.22	-25.28
UBL	3.78	1.90	3.82	3.00
UBR	3.78	2.99	3.82	1.91
WLL1	-24.74	-20.44	-24.74	-20.44
WLR1	-9.40	-8.16	-9.40	-8.16
WEW	-17.90	-15.69	-17.90	-15.69
SEIL	-0.49	-0.15	0.48	0.15
SEIR	0.48	0.15	-0.49	-0.15
WLL2	-25.25	-18.79	-16.88	-13.27
WLR2	-16.88	-13.27	-25.25	-18.79
WLL3	-31.65	-26.93	-31.65	-26.93
WLR3	-16.46	-14.65	-16.46	-14.65
COMB # 1	20.18	17.10	20.24	17.12
COMB # 2	13.15	10.61	13.19	11.72
COMB # 5	-29.29	-22.16	-20.93	-16.63
COMB # 7	-20.92	-16.63	-29.29	-22.16
COMB # 37	-14.98	-12.56	-14.98	-12.56
COMB # 60	-28.73	-23.80	-28.73	-23.80

DESIGN FRAME #1
PRELIMINARY FRAME COLUMN REACTIONS

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LOAD COMBINATIONS:

COMB # 1--> 1.00 X(DL+ LL+ COL)
COMB # 2--> 1.00 X(DL+ UBL+ COL)

REACOUT

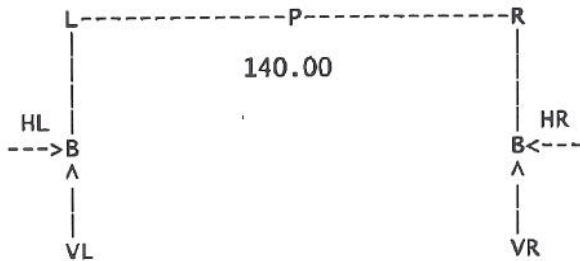
COMB # 5--> 1.00 X(0.60DL+ WLL)
 COMB # 7--> 1.00 X(0.60DL+ WLR)
 COMB # 37--> 1.00 X(0.60DL+ WEW)
 COMB # 60--> 1.00 X(0.60DL+ WLL3)
 UBL->0.30X SNOW LOAD ON FRONT SLOPE ROOF + 1.00X SNOW LOAD ON REAR SLOPE ROOF
 UBR->0.30X SNOW LOAD ON REAR SLOPE ROOF + 1.00X SNOW LOAD ON FRONT SLOPE ROOF

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DESIGN FRAME #2
 PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 2 3 4 5 6

LEFT EH= 20.500 FT. LEFT RS: 1.170/12
 RIGHT EH= 20.500 FT. RIGHT RS: 1.170/12
 DISTANCE TO PEAK FROM LEFT SIDE: 70.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	8.34	8.18	8.34	8.19
COL	10.76	8.58	10.76	8.57
LL	25.91	20.56	26.06	20.60
SL	7.48	5.99	7.57	6.02
WLL	-46.29	-36.91	-34.77	-30.69
WLR	-34.77	-30.69	-46.29	-36.91
UBL	9.06	4.68	9.14	7.40
UBR	9.07	7.38	9.15	4.70
WLL1	-25.82	-22.53	-25.82	-22.54
WLR1	-8.45	-8.39	-8.45	-8.40
WEW	-42.45	-38.44	-42.45	-38.44
SEIL	-1.04	-0.31	1.04	0.31
SEIR	1.03	0.31	-1.04	-0.31
WLL2	-29.57	-21.00	-18.05	-14.79
WLR2	-18.05	-14.78	-29.57	-21.00
WLL3	-42.45	-38.44	-42.45	-38.44
WLR3	-25.33	-24.30	-25.33	-24.30
COMB # 1	45.02	37.32	45.16	37.36
COMB # 2	28.17	21.43	28.25	24.17
COMB # 3	28.17	24.14	28.25	21.46
COMB # 5	-41.28	-32.00	-29.77	-25.78
COMB # 7	-29.77	-25.78	-41.29	-32.00
COMB # 37	-37.44	-33.53	-37.44	-33.53

LOAD COMBINATIONS:

COMB # 1--> 1.00 X(DL+ LL+ COL)
 COMB # 2--> 1.00 X(DL+ UBL+ COL)
 COMB # 3--> 1.00 X(DL+ UBR+ COL)

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REACOUT
DESIGN FRAME #2
PRELIMINARY FRAME COLUMN REACTIONS
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LOAD COMBINATIONS: (CONT'D)

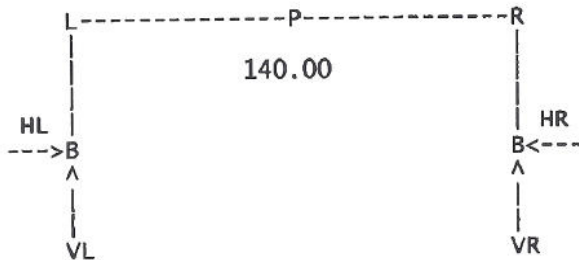
- COMB # 5--> 1.00 X(0.60DL+ WLL)
- COMB # 7--> 1.00 X(0.60DL+ WLR)
- COMB # 37--> 1.00 X(0.60DL+ WEW)
- UBL->0.30X SNOW LOAD ON FRONT SLOPE ROOF + 1.00X SNOW LOAD ON REAR SLOPE ROOF
- UBR->0.30X SNOW LOAD ON REAR SLOPE ROOF + 1.00X SNOW LOAD ON FRONT SLOPE ROOF

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DESIGN FRAME #3
PRELIMINARY FRAME COLUMN REACTIONS
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FRAME LINES: 7

LEFT EH= 20.500 FT. LEFT RS: 1.170/12
RIGHT EH= 20.500 FT. RIGHT RS: 1.170/12
DISTANCE TO PEAK FROM LEFT SIDE: 70.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	5.23	5.19	5.23	5.19
COL	5.13	4.02	5.13	4.02
LL	12.34	9.65	12.41	9.67
SL	3.57	2.81	3.61	2.82
WLL	-34.86	-27.55	-25.79	-21.63
WLR	-25.79	-21.63	-34.86	-27.55
UBL	4.32	2.18	4.36	3.46
UBR	4.32	3.45	4.36	2.20
WLL1	-26.15	-21.82	-26.15	-21.82
WLR1	-9.85	-8.67	-9.85	-8.67
WEW	-20.40	-18.04	-20.40	-18.04
SEIL	-0.53	-0.16	0.53	0.16
SEIR	0.53	0.16	-0.53	-0.16
WLL2	-26.92	-20.08	-17.85	-14.17
WLR2	-17.85	-14.17	-26.92	-20.08
WLL3	-34.02	-29.28	-34.02	-29.28
WLR3	-17.90	-16.14	-17.90	-16.14
COMB # 1	22.70	18.87	22.77	18.89
COMB # 2	14.68	11.40	14.72	12.68
COMB # 5	-31.73	-24.43	-22.65	-18.52
COMB # 7	-22.65	-18.52	-31.73	-24.43
COMB # 37	-17.27	-14.93	-17.27	-14.93
COMB # 60	-30.89	-26.17	-30.89	-26.17

LOAD COMBINATIONS:

REACOUT

COMB # 1--> 1.00 X(DL+ LL+ COL)
 COMB # 2--> 1.00 X(DL+ UBL+ COL)
 COMB # 5--> 1.00 X(0.60DL+ WLL)

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DESIGN FRAME #3
 PRELIMINARY FRAME COLUMN REACTIONS

LOAD COMBINATIONS: (CONT'D)

COMB # 7--> 1.00 X(0.60DL+ WLR)
 COMB # 37--> 1.00 X(0.60DL+ WEW)
 COMB # 60--> 1.00 X(0.60DL+ WLL3)
 UBL->0.30X SNOW LOAD ON FRONT SLOPE ROOF + 1.00X SNOW LOAD ON REAR SLOPE ROOF
 UBR->0.30X SNOW LOAD ON REAR SLOPE ROOF + 1.00X SNOW LOAD ON FRONT SLOPE ROOF

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RUFFIN (37.4)
 11-Jan-2012
 DARREN

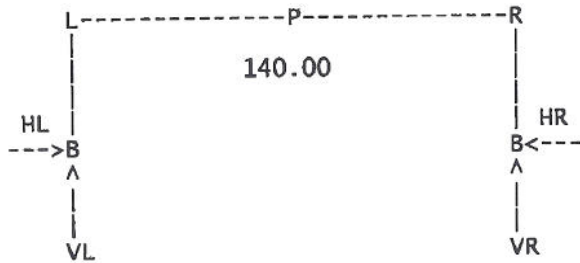
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DESIGN FRAME #1
 PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 1

LEFT EH= 20.500 FT. LEFT RS: 1.170/12
 RIGHT EH= 20.500 FT. RIGHT RS: 1.170/12
 DISTANCE TO PEAK FROM LEFT SIDE: 70.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	4.87	5.21	4.87	5.21
COL	4.50	3.50	4.50	3.50
LL	10.80	8.39	10.87	8.41
SL	3.12	2.44	3.17	2.46
WLL	-32.22	-25.28	-23.85	-19.76
WLR	-23.85	-19.76	-32.22	-25.28
UBL	3.78	1.90	3.82	3.00
UBR	3.78	2.99	3.82	1.91
WLL1	-24.74	-20.44	-24.74	-20.44
WLR1	-9.40	-8.16	-9.40	-8.16
WEW	-17.90	-15.69	-17.90	-15.69
SEIL	-0.49	-0.15	0.48	0.15
SEIR	0.48	0.15	-0.49	-0.15
WLL2	-25.25	-18.79	-16.88	-13.27
WLR2	-16.88	-13.27	-25.25	-18.79
WLL3	-31.65	-26.93	-31.65	-26.93

		REACOUT			
WLR3		-16.46	-14.65	-16.46	-14.65
COMB # 1		20.18	17.10	20.24	17.12
COMB # 2		13.15	10.61	13.19	11.72
COMB # 5		-29.29	-22.16	-20.93	-16.63
COMB # 7		-20.92	-16.63	-29.29	-22.16
COMB # 37		-14.98	-12.56	-14.98	-12.56
COMB # 60		-28.73	-23.80	-28.73	-23.80

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DESIGN FRAME #1
PRELIMINARY FRAME COLUMN REACTIONS

LOAD COMBINATIONS:

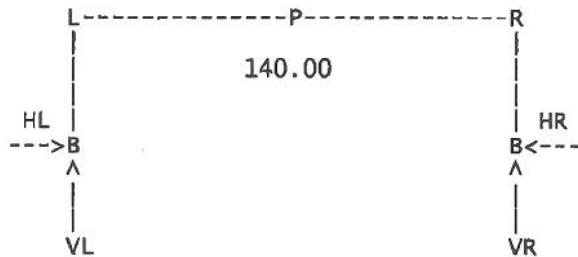
- COMB # 1--> 1.00 X(DL+ LL+ COL)
- COMB # 2--> 1.00 X(DL+ UBL+ COL)
- COMB # 5--> 1.00 X(0.60DL+ WLL)
- COMB # 7--> 1.00 X(0.60DL+ WLR)
- COMB # 37--> 1.00 X(0.60DL+ WEW)
- COMB # 60--> 1.00 X(0.60DL+ WLL3)
- UBL->0.30X SNOW LOAD ON FRONT SLOPE ROOF + 1.00X SNOW LOAD ON REAR SLOPE ROOF
- UBR->0.30X SNOW LOAD ON REAR SLOPE ROOF + 1.00X SNOW LOAD ON FRONT SLOPE ROOF

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DESIGN FRAME #2
PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 2 3 4 5 6

LEFT EH= 20.500 FT. LEFT RS: 1.170/12
RIGHT EH= 20.500 FT. RIGHT RS: 1.170/12
DISTANCE TO PEAK FROM LEFT SIDE: 70.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	8.34	8.18	8.34	8.19
COL	10.76	8.58	10.76	8.57
LL	25.91	20.56	26.06	20.60
SL	7.48	5.99	7.57	6.02
WLL	-46.29	-36.91	-34.77	-30.69
WLR	-34.77	-30.69	-46.29	-36.91
UBL	9.06	4.68	9.14	7.40
UBR	9.07	7.38	9.15	4.70
WLL1	-25.82	-22.53	-25.82	-22.54
WLR1	-8.45	-8.39	-8.45	-8.40
WEW	-42.45	-38.44	-42.45	-38.44
SEIL	-1.04	-0.31	1.04	0.31
SEIR	1.03	0.31	-1.04	-0.31
WLL2	-29.57	-21.00	-18.05	-14.79

	REACOUT			
WLR2	-18.05	-14.78	-29.57	-21.00
WLL3	-42.45	-38.44	-42.45	-38.44
WLR3	-25.33	-24.30	-25.33	-24.30
COMB # 1	45.02	37.32	45.16	37.36
COMB # 2	28.17	21.43	28.25	24.17
COMB # 3	28.17	24.14	28.25	21.46
COMB # 5	-41.28	-32.00	-29.77	-25.78
COMB # 7	-29.77	-25.78	-41.29	-32.00
COMB # 37	-37.44	-33.53	-37.44	-33.53

LOAD COMBINATIONS:

- COMB # 1--> 1.00 X(DL+ LL+ COL)
- COMB # 2--> 1.00 X(DL+ UBL+ COL)
- COMB # 3--> 1.00 X(DL+ UBR+ COL)

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DESIGN FRAME #2
PRELIMINARY FRAME COLUMN REACTIONS

LOAD COMBINATIONS: (CONT'D)

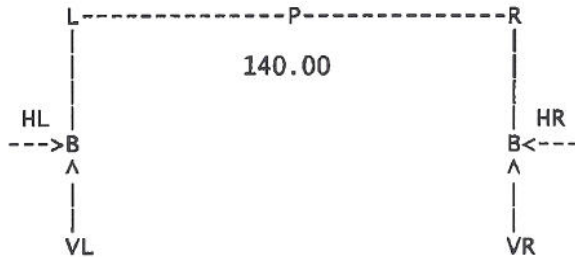
- COMB # 5--> 1.00 X(0.60DL+ WLL)
- COMB # 7--> 1.00 X(0.60DL+ WLR)
- COMB # 37--> 1.00 X(0.60DL+ WEW)
- UBL->0.30X SNOW LOAD ON FRONT SLOPE ROOF + 1.00X SNOW LOAD ON REAR SLOPE ROOF
- UBR->0.30X SNOW LOAD ON REAR SLOPE ROOF + 1.00X SNOW LOAD ON FRONT SLOPE ROOF

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DESIGN FRAME #3
PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 7

LEFT EH= 20.500 FT. LEFT RS: 1.170/12
RIGHT EH= 20.500 FT. RIGHT RS: 1.170/12
DISTANCE TO PEAK FROM LEFT SIDE: 70.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	5.23	5.19	5.23	5.19
COL	5.13	4.02	5.13	4.02
LL	12.34	9.65	12.41	9.67
SL	3.57	2.81	3.61	2.82
WLL	-34.86	-27.55	-25.79	-21.63
WLR	-25.79	-21.63	-34.86	-27.55
UBL	4.32	2.18	4.36	3.46
UBR	4.32	3.45	4.36	2.20
WLL1	-26.15	-21.82	-26.15	-21.82

REACOUT				
WLR1	-9.85	-8.67	-9.85	-8.67
WEW	-20.40	-18.04	-20.40	-18.04
SEIL	-0.53	-0.16	0.53	0.16
SEIR	0.53	0.16	-0.53	-0.16
WLL2	-26.92	-20.08	-17.85	-14.17
WLR2	-17.85	-14.17	-26.92	-20.08
WLL3	-34.02	-29.28	-34.02	-29.28
WLR3	-17.90	-16.14	-17.90	-16.14
COMB # 1	22.70	18.87	22.77	18.89
COMB # 2	14.68	11.40	14.72	12.68
COMB # 5	-31.73	-24.43	-22.65	-18.52
COMB # 7	-22.65	-18.52	-31.73	-24.43
COMB # 37	-17.27	-14.93	-17.27	-14.93
COMB # 60	-30.89	-26.17	-30.89	-26.17

LOAD COMBINATIONS:

COMB # 1--> 1.00 X(DL+ LL+ COL)
 COMB # 2--> 1.00 X(DL+ UBL+ COL)
 COMB # 5--> 1.00 X(0.60DL+ WLL)

DESIGN FRAME #3
 PRELIMINARY FRAME COLUMN REACTIONS

LOAD COMBINATIONS: (CONT'D)

COMB # 7--> 1.00 X(0.60DL+ WLR)
 COMB # 37--> 1.00 X(0.60DL+ WEW)
 COMB # 60--> 1.00 X(0.60DL+ WLL3)
 UBL->0.30X SNOW LOAD ON FRONT SLOPE ROOF + 1.00X SNOW LOAD ON REAR SLOPE ROOF
 UBR->0.30X SNOW LOAD ON REAR SLOPE ROOF + 1.00X SNOW LOAD ON FRONT SLOPE ROOF

RUFFIN (37.4)
 11-Jan-2012
 DARREN

DWES91
 09:52:05
 Release 36.4

VALCOM INC

ENDWALL DESIGN SYSTEM

***** ENDWALL C COLUMN DESIGN *****

PRELIMINARY COLUMN REACTIONS

COLUMN LOCATIONS (FT) ARE FROM SIDEWALL A.

APPLIED LOAD CASES AND COMBINATIONS	COL @ 20.00		COL @ 40.00		COL @ 60.00		COL @ 80.00	
	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)
DL	0.00	0.52	0.00	0.57	0.00	0.73	0.00	0.73
COL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WL+	4.60	0.00	4.97	0.00	5.36	0.00	5.36	0.00
WL-	-5.10	0.00	-5.53	0.00	-5.96	0.00	-5.96	0.00
DL + LL + COL	0.00	0.52	0.00	0.57	0.00	0.73	0.00	0.73
DL + SL + COL	0.00	0.52	0.00	0.57	0.00	0.73	0.00	0.73
0.6DL + WL+	4.60	0.31	4.97	0.34	5.36	0.44	5.36	0.44
0.6DL + WL-	-5.10	0.31	-5.53	0.34	-5.96	0.44	-5.96	0.44
DL+0.75(SL+COL+WL+)	3.45	0.52	3.73	0.57	4.02	0.73	4.02	0.73
DL+0.75(SL+COL+WL-)	-3.83	0.52	-4.14	0.57	-4.47	0.73	-4.47	0.73
DL+0.75(LL+COL+WL+)	3.45	0.52	3.73	0.57	4.02	0.73	4.02	0.73

	REACOUT							
DL+0.75(LL+COL+WL-)	-3.83	0.52	-4.14	0.57	-4.47	0.73	-4.47	0.73
DL + UBL + COL	0.00	0.52	0.00	0.57	0.00	0.73	0.00	0.73
DL + UBR + COL	0.00	0.52	0.00	0.57	0.00	0.73	0.00	0.73

APPLIED LOAD CASES AND COMBINATIONS	COL @ 100.00		COL @ 120.00	
	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)
DL	0.00	0.57	0.00	0.52
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+	4.97	0.00	4.60	0.00
WL-	-5.53	0.00	-5.10	0.00
DL + LL + COL	0.00	0.57	0.00	0.52
DL + SL + COL	0.00	0.57	0.00	0.52
0.6DL + WL+	4.97	0.34	4.60	0.31
0.6DL + WL-	-5.53	0.34	-5.10	0.31
DL+0.75(SL+COL+WL+)	3.73	0.57	3.45	0.52
DL+0.75(SL+COL+WL-)	-4.14	0.57	-3.83	0.52
DL+0.75(LL+COL+WL+)	3.73	0.57	3.45	0.52
DL+0.75(LL+COL+WL-)	-4.14	0.57	-3.83	0.52
DL + UBL + COL	0.00	0.57	0.00	0.52
DL + UBR + COL	0.00	0.57	0.00	0.52

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RUFFIN (37.4)
11-Jan-2012
DARREN

DWES91
09:52:06
Release 36.4

VALCOM INC

ENDWALL DESIGN SYSTEM

***** ENDWALL D COLUMN DESIGN *****

PRELIMINARY COLUMN REACTIONS

COLUMN LOCATIONS (FT) ARE FROM SIDEWALL A.

APPLIED LOAD CASES AND COMBINATIONS	COL @ 20.00		COL @ 40.00		COL @ 60.00		COL @ 80.00	
	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)
DL	0.00	0.39	0.00	0.42	0.00	0.46	0.00	0.46
COL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WL+	4.60	0.00	4.97	0.00	5.36	0.00	5.36	0.00
WL-	-5.10	0.00	-5.53	0.00	-5.96	0.00	-5.96	0.00
DL + LL + COL	0.00	0.39	0.00	0.42	0.00	0.46	0.00	0.46
DL + SL + COL	0.00	0.39	0.00	0.42	0.00	0.46	0.00	0.46
0.6DL + WL+	4.60	0.23	4.97	0.25	5.36	0.28	5.36	0.28
0.6DL + WL-	-5.10	0.23	-5.53	0.25	-5.96	0.28	-5.96	0.28
DL+0.75(SL+COL+WL+)	3.45	0.39	3.73	0.42	4.02	0.46	4.02	0.46
DL+0.75(SL+COL+WL-)	-3.83	0.39	-4.14	0.42	-4.47	0.46	-4.47	0.46
DL+0.75(LL+COL+WL+)	3.45	0.39	3.73	0.42	4.02	0.46	4.02	0.46
DL+0.75(LL+COL+WL-)	-3.83	0.39	-4.14	0.42	-4.47	0.46	-4.47	0.46
DL + UBL + COL	0.00	0.39	0.00	0.42	0.00	0.46	0.00	0.46
DL + UBR + COL	0.00	0.39	0.00	0.42	0.00	0.46	0.00	0.46

APPLIED LOAD CASES AND COMBINATIONS	COL @ 100.00		COL @ 120.00	
	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)

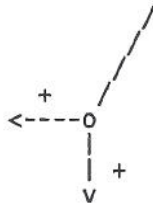
			REACOUT	
DL	0.00	0.42	0.00	0.39
COL	0.00	0.00	0.00	0.00
LL	0.00	0.00	0.00	0.00
SL	0.00	0.00	0.00	0.00
WL+	4.97	0.00	4.60	0.00
WL-	-5.53	0.00	-5.10	0.00
DL + LL + COL	0.00	0.42	0.00	0.39
DL + SL + COL	0.00	0.42	0.00	0.39
0.6DL + WL+	4.97	0.25	4.60	0.23
0.6DL + WL-	-5.53	0.25	-5.10	0.23
DL+0.75(SL+COL+WL+)	3.73	0.42	3.45	0.39
DL+0.75(SL+COL+WL-)	-4.14	0.42	-3.83	0.39
DL+0.75(LL+COL+WL+)	3.73	0.42	3.45	0.39
DL+0.75(LL+COL+WL-)	-4.14	0.42	-3.83	0.39
DL + UBL + COL	0.00	0.42	0.00	0.39
DL + UBR + COL	0.00	0.42	0.00	0.39

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DWES91
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***** BRACING DESIGN *****
DIAGONAL X-BRACE DESIGN REACTIONS



WALL	BRACED BAY #	LOAD NAME	DIST FROM EWC (FT)	DIST FROM SWA (FT)	HORIZONTAL (KIPS)	VERTICAL (KIPS)
SWB	2	WLB+	20.00		8.21	6.73
SWB	2	WLB-	45.00		-8.21	6.73
SWB	2	SEI+	20.00		4.90	4.02
SWB	2	SEI-	45.00		-4.90	4.02
SWA	2	WLB+	20.00		8.21	6.73
SWA	2	WLB-	45.00		-8.21	6.73
SWA	2	SEI+	20.00		4.90	4.02
SWA	2	SEI-	45.00		-4.90	4.02
SWB	5	WLB+	81.00		8.21	6.47
SWB	5	WLB-	107.00		-8.21	6.47
SWB	5	SEI+	81.00		4.90	3.87
SWB	5	SEI-	107.00		-4.90	3.87
SWA	5	WLB+	81.00		8.21	6.47
SWA	5	WLB-	107.00		-8.21	6.47
SWA	5	SEI+	81.00		4.90	3.87
SWA	5	SEI-	107.00		-4.90	3.87
EWC	2	WLB-		20.00	2.02	2.47
EWC	2	SEI-		20.00	1.85	2.25
EWC	2	WLB+		40.00	2.02	2.27
EWC	2	SEI+		40.00	1.85	2.07
EWC	6	WLB-		100.00	2.02	2.27
EWC	6	SEI-		100.00	1.85	2.07
EWC	6	WLB+		120.00	2.02	2.47
EWC	6	SEI+		120.00	1.85	2.25
EWD	2	WLB-		20.00	2.02	2.47
EWD	2	SEI-		20.00	1.86	2.26
EWD	2	WLB+		40.00	2.02	2.27

			REACOUT		
EWD	2	SEI+	40.00	1.86	2.08
EWD	6	WLB-	100.00	2.02	2.27
EWD	6	SEI-	100.00	1.86	2.08
EWD	6	WLB+	120.00	2.02	2.47
EWD	6	SEI+	120.00	1.86	2.26

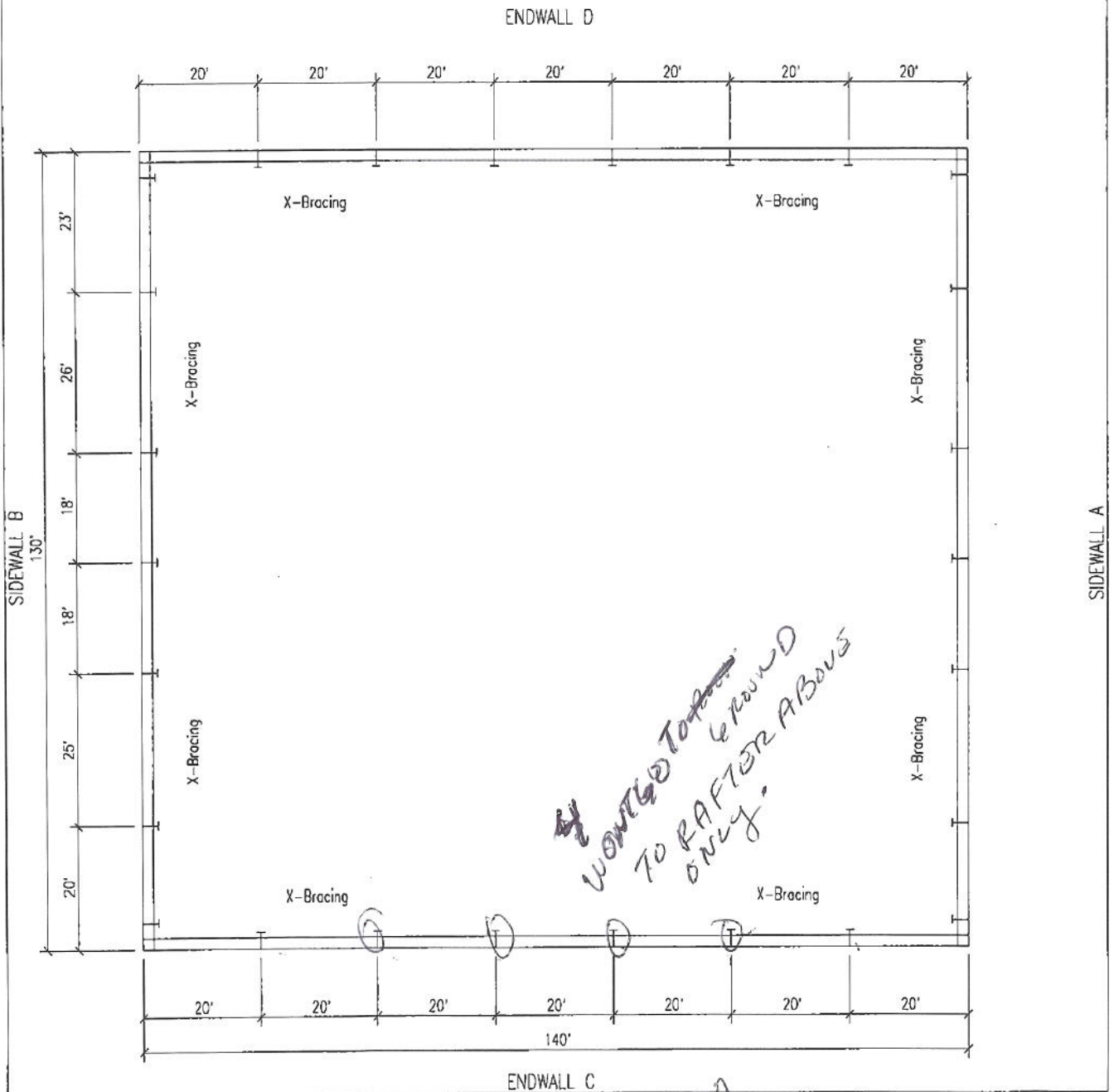
QUESTware CORP.

JOB NO: DWES91

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OF

TOP VIEW



REACOUT

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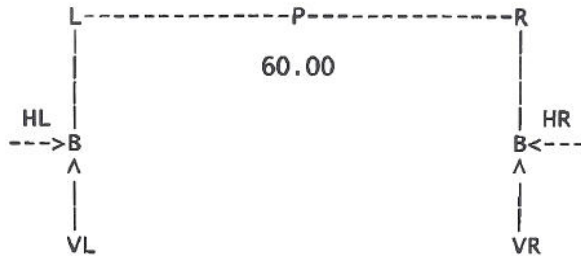
VAL091
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VALCOM INC

DESIGN FRAME #1
PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 1

LEFT EH= 16.000 FT. LEFT RS: 1.000/12
RIGHT EH= 16.000 FT. RIGHT RS: 1.000/12
DISTANCE TO PEAK FROM LEFT SIDE: 30.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	1.50	2.63	1.50	2.63
COL	1.59	2.25	1.59	2.25
LL	3.81	5.39	3.85	5.41
WLL	-12.27	-15.77	-5.48	-10.36
WLR	-5.48	-10.36	-12.27	-15.77
WLL1	-7.28	-11.87	-7.28	-11.87
WLR1	-2.22	-4.67	-2.22	-4.67
WEW	-5.90	-11.60	-5.91	-11.60
WLL2	-10.21	-10.97	-3.41	-5.56
WLR2	-3.41	-5.56	-10.21	-10.97
WLL3	-9.33	-16.67	-9.33	-16.67
WLR3	-4.30	-9.47	-4.30	-9.47
COMB # 1	6.90	10.27	6.94	10.29
COMB # 2	-11.37	-14.19	-4.58	-8.78
COMB # 4	-4.58	-8.78	-11.37	-14.19
COMB # 18	-5.00	-10.02	-5.00	-10.02
COMB # 27	-8.42	-15.09	-8.42	-15.09

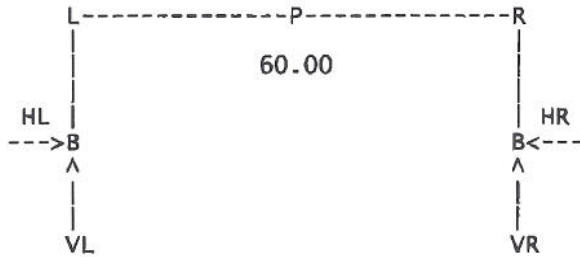
LOAD COMBINATIONS:

- COMB # 1--> 1.00 X(DL+ LL+ COL)
- COMB # 2--> 1.00 X(0.60DL+ WLL)
- COMB # 4--> 1.00 X(0.60DL+ WLR)
- COMB # 18--> 1.00 X(0.60DL+ WEW)
- COMB # 27--> 1.00 X(0.60DL+ WLL3)

DESIGN FRAME #2
PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 2

REACOUT
 LEFT EH= 16.000 FT. LEFT RS: 1.000/12
 RIGHT EH= 16.000 FT. RIGHT RS: 1.000/12
 DISTANCE TO PEAK FROM LEFT SIDE: 30.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	1.38	2.38	1.38	2.38
COL	1.49	2.25	1.49	2.25
LL	3.57	5.39	3.61	5.41
WLL	-8.07	-11.14	-3.52	-7.79
WLR	-3.51	-7.80	-8.07	-11.14
WLL1	-3.53	-6.80	-3.53	-6.80
WLR1	-0.73	-2.53	-0.73	-2.53
WEW	-5.39	-11.60	-5.39	-11.60
WLL2	-6.20	-6.35	-1.65	-2.99
WLR2	-1.64	-2.99	-6.19	-6.34
WLL3	-5.39	-11.60	-5.39	-11.60
WLR3	-2.61	-7.33	-2.61	-7.33
COMB # 1	6.44	10.02	6.48	10.04
COMB # 2	-7.24	-9.71	-2.69	-6.37
COMB # 4	-2.68	-6.37	-7.24	-9.71
COMB # 18	-4.56	-10.17	-4.56	-10.17

LOAD COMBINATIONS:

COMB # 1--> 1.00 X(DL+ LL+ COL)
 COMB # 2--> 1.00 X(0.60DL+ WLL)
 COMB # 4--> 1.00 X(0.60DL+ WLR)
 COMB # 18--> 1.00 X(0.60DL+ WEW)

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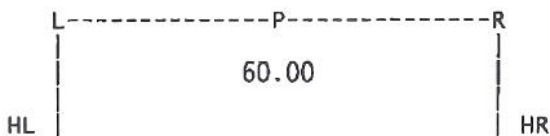
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 Release 36.4

VALCOM INC

DESIGN FRAME #1
 PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 1

LEFT EH= 16.000 FT. LEFT RS: 1.000/12
 RIGHT EH= 16.000 FT. RIGHT RS: 1.000/12
 DISTANCE TO PEAK FROM LEFT SIDE: 30.000 FT.





BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR
DL	1.50	2.63	1.50	2.63
COL	1.59	2.25	1.59	2.25
LL	3.81	5.39	3.85	5.41
WLL	-12.27	-15.77	-5.48	-10.36
WLR	-5.48	-10.36	-12.27	-15.77
WLL1	-7.28	-11.87	-7.28	-11.87
WLR1	-2.22	-4.67	-2.22	-4.67
WEW	-5.90	-11.60	-5.91	-11.60
WLL2	-10.21	-10.97	-3.41	-5.56
WLR2	-3.41	-5.56	-10.21	-10.97
WLL3	-9.33	-16.67	-9.33	-16.67
WLR3	-4.30	-9.47	-4.30	-9.47
COMB # 1	6.90	10.27	6.94	10.29
COMB # 2	-11.37	-14.19	-4.58	-8.78
COMB # 4	-4.58	-8.78	-11.37	-14.19
COMB # 18	-5.00	-10.02	-5.00	-10.02
COMB # 27	-8.42	-15.09	-8.42	-15.09

LOAD COMBINATIONS:

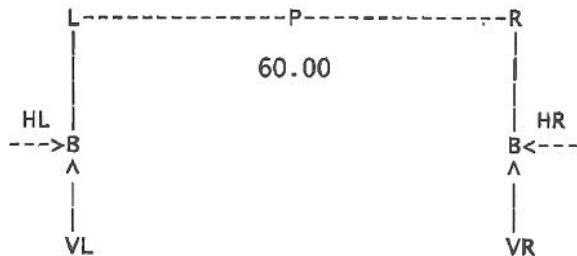
- COMB # 1--> 1.00 X(DL+ LL+ COL)
- COMB # 2--> 1.00 X(0.60DL+ WLL)
- COMB # 4--> 1.00 X(0.60DL+ WLR)
- COMB # 18--> 1.00 X(0.60DL+ WEW)
- COMB # 27--> 1.00 X(0.60DL+ WLL3)

♀

DESIGN FRAME #2
PRELIMINARY FRAME COLUMN REACTIONS

FRAME LINES: 2

LEFT EH= 16.000 FT. LEFT RS: 1.000/12
 RIGHT EH= 16.000 FT. RIGHT RS: 1.000/12
 DISTANCE TO PEAK FROM LEFT SIDE: 30.000 FT.



BUILDING LOADS	COLUMN REACTIONS (KIPS)			
	HL	VL	HR	VR

	REACOUT			
DL	1.38	2.38	1.38	2.38
COL	1.49	2.25	1.49	2.25
LL	3.57	5.39	3.61	5.41
WLL	-8.07	-11.14	-3.52	-7.79
WLR	-3.51	-7.80	-8.07	-11.14
WLL1	-3.53	-6.80	-3.53	-6.80
WLR1	-0.73	-2.53	-0.73	-2.53
WEW	-5.39	-11.60	-5.39	-11.60
WLL2	-6.20	-6.35	-1.65	-2.99
WLR2	-1.64	-2.99	-6.19	-6.34
WLL3	-5.39	-11.60	-5.39	-11.60
WLR3	-2.61	-7.33	-2.61	-7.33
COMB # 1	6.44	10.02	6.48	10.04
COMB # 2	-7.24	-9.71	-2.69	-6.37
COMB # 4	-2.68	-6.37	-7.24	-9.71
COMB # 18	-4.56	-10.17	-4.56	-10.17

LOAD COMBINATIONS:

COMB # 1--> 1.00 X(DL+ LL+ COL)
 COMB # 2--> 1.00 X(0.60DL+ WLL)
 COMB # 4--> 1.00 X(0.60DL+ WLR)
 COMB # 18--> 1.00 X(0.60DL+ WEW)

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 ***** ENDWALL C COLUMN DESIGN *****

PRELIMINARY COLUMN REACTIONS

COLUMN LOCATIONS (FT) ARE FROM SIDEWALL A.

APPLIED LOAD CASES AND COMBINATIONS	COL @ 20.00		COL @ 40.00	
	HORIZ (KIPS)	VERT (KIPS)	HORIZ (KIPS)	VERT (KIPS)
DL	0.00	0.30	0.00	0.30
COL	0.00	0.00	0.00	0.00
LL	0.00	0.00	0.00	0.00
WL+	4.18	0.00	4.18	0.00
WL-	-4.62	0.00	-4.62	0.00
DL + LL + COL	0.00	0.30	0.00	0.30
0.6DL + WL+	4.18	0.18	4.18	0.18
0.6DL + WL-	-4.62	0.18	-4.62	0.18
DL+0.75(LL+COL+WL+)	3.13	0.30	3.13	0.30
DL+0.75(LL+COL+WL-)	-3.47	0.30	-3.47	0.30

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





WALL	BRACED BAY #	LOAD NAME	DIST FROM EWC (FT)	DIST FROM SWA (FT)	HORIZONTAL (KIPS)	VERTICAL (KIPS)
SWA	1	WLB+	0.00		-2.88	-2.33
SWA	1	WLB+	30.00		-2.88	3.44
SWA	1	WLB-	0.00		2.88	3.44
SWA	1	WLB-	30.00		2.88	-2.33
SWB	1	WLB+	0.00		-2.88	-2.33
SWB	1	WLB+	30.00		-2.88	3.44
SWB	1	WLB-	0.00		2.88	3.44
SWB	1	WLB-	30.00		2.88	-2.33

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JOB NO: VAL091

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OF

TOP VIEW

ENDWALL D

