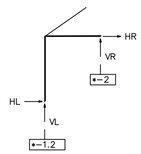
FRAME ID #2 — USER NAME: bdcloar — DATE: 4/19/16 — PAGE: 2-2
lt 11.521/16.547/19.625 20. — JOB NAME: 26518E — FILE: ltfral_g.7.fra

SUPPORT REACTIONS FOR EACH LOAD GROUP
•LOCATION: Gridlines: G.7
NOTE: All reactions are in kips and kip-ft. TIME: 10:34:14
REACTION NOTATIONS



Grid Line "G.7"
Building "D"

LOAD GROUP REACTION TABLE • = G.7

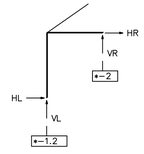
COLUMN	•-1.2			SUPPORT(•-2)		
LOAD GROUP	HL	VL	LNL	HR	VR	LNR
DL	0.0	0.9	0.0	−0.0	0.5	0.0
COLL	0.0	1.2	0.0	−0.0	1.0	0.0
PSLL1	0.2	5.2	0.0	−0.2	4.8	0.0
SNOW	0.2	5.6	0.0	−0.2	4.8	0.0
LL	0.1	2.4	0.0	−0.1	2.1	0.0
EQ	0.0	0.0	0.0	−0.4	−0.0	0.0
WL1	−0.5	−1.8	0.0	−0.5	−1.5	0.0
WL2	−1.3	−1.0	0.0	−1.4	−0.9	0.0
LWL1	1.3	−2.4	0.0	1.7	−1.7	0.0
LWL2	1.3	−1.8	0.0	1.7	−1.5	0.0
LWL3	1.3	−1.4	0.0	1.6	−1.0	0.0
LWL4	1.3	−1.1	0.0	1.6	−1.0	0.0
WL3	1.0	−1.1	0.0	1.2	−1.0	0.0
WL4	0.2	−0.4	0.0	0.3	−0.3	0.0
SBAL	0.2	5.6	0.0	−0.2	4.8	0.0
DSNW	0.2	5.0	0.0	−0.2	6.8	0.0

LOAD GROUP DESCRIPTION

DL : Roof Dead Load
COLL : Roof Collateral Load
PSLL1 : Pattern Snow Load Left Leanto/Canopy [PSLLxx]
SNOW : Roof Snow Load
LL : Roof Live Load
EQ : Lateral Seismic Load [parallel to plane of frame]
WL1 : Lateral Primary Wind Load
WL2 : Lateral Primary Wind Load
LWL1 : Longitudinal Primary Wind Load
LWL2 : Longitudinal Primary Wind Load
LWL3 : Longitudinal Primary Wind Load
LWL4 : Longitudinal Primary Wind Load
WL3 : Lateral Primary Wind Load
WL4 : Lateral Primary Wind Load
SBAL : Code Calculated Balanced Roof Snow Load
DSNW : Drifting Snow

FRAME ID #3 — USER NAME: bdcloar — DATE: 4/19/16 — PAGE: 3-2
lt 11.521/16.547/9.49 20./9 — JOB NAME: 26518E — FILE: ltfral_k.fra

SUPPORT REACTIONS FOR EACH LOAD GROUP
•LOCATION: Gridlines: K
NOTE: All reactions are in kips and kip-ft. TIME: 10:35:29
REACTION NOTATIONS



Grid Line "K"
Building "D"

LOAD GROUP REACTION TABLE • = K

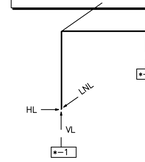
COLUMN	•-1.2			SUPPORT(•-2)		
LOAD GROUP	HL	VL	LNL	HR	VR	LNR
DL	0.0	0.5	0.0	−0.0	0.3	0.0
COLL	0.0	0.6	0.0	−0.0	0.5	0.0
PSLL1	0.1	2.5	0.0	−0.1	2.3	0.0
SNOW	0.1	2.7	0.0	−0.1	2.3	0.0
LL	0.0	1.2	0.0	−0.0	1.0	0.0
EQ	0.0	0.0	0.0	−0.2	−0.0	0.0
WL1	−0.5	−1.2	0.0	−0.5	−1.1	0.0
WL2	−0.8	−0.9	0.0	−1.0	−0.8	0.0
LWL1	0.6	−1.1	0.0	0.8	−0.8	0.0
LWL2	0.6	−0.9	0.0	0.8	−0.7	0.0
LWL3	0.6	−0.7	0.0	0.8	−0.5	0.0
LWL4	0.6	−0.5	0.0	0.8	−0.5	0.0
WL3	0.6	−0.7	0.0	0.8	−0.6	0.0
WL4	0.3	−0.3	0.0	0.3	−0.3	0.0
SBAL	0.1	2.7	0.0	−0.1	2.3	0.0
DSNW	0.1	2.5	0.0	−0.1	3.3	0.0

LOAD GROUP DESCRIPTION

DL : Roof Dead Load
COLL : Roof Collateral Load
PSLL1 : Pattern Snow Load Left Leanto/Canopy [PSLLxx]
SNOW : Roof Snow Load
LL : Roof Live Load
EQ : Lateral Seismic Load [parallel to plane of frame]
WL1 : Lateral Primary Wind Load
WL2 : Lateral Primary Wind Load
LWL1 : Longitudinal Primary Wind Load
LWL2 : Longitudinal Primary Wind Load
LWL3 : Longitudinal Primary Wind Load
LWL4 : Longitudinal Primary Wind Load
WL3 : Lateral Primary Wind Load
WL4 : Lateral Primary Wind Load
SBAL : Code Calculated Balanced Roof Snow Load
DSNW : Drifting Snow

FRAME ID #2 — USER NAME: bdcloar — DATE: 4/19/16 — PAGE: 2-2
lt 17.896/17.708/9.411 20./ — JOB NAME: 26518K — FILE: ltfral_a.fra

SUPPORT REACTIONS FOR EACH LOAD GROUP
•LOCATION: Gridlines: A
NOTES:(1) All reactions are in kips and kip-ft. TIME: 10:49:23
(2) The overstrength factor (Omega) is not included in the "RBDWEQ" and "RBUPEQ" Load Group reactions.
REACTION NOTATIONS Seismic "BASE-ONLY" combination reactions include an overstrength factor of: 2.500



Grid Line "A"
Building "E"

LOAD GROUP REACTION TABLE • = A

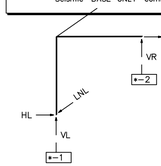
COLUMN	•-1			SUPPORT(•-2)		
LOAD GROUP	HL	VL	LNL	HR	VR	LNR
DL	0.0	0.6	0.0	−0.0	0.4	0.0
COLL	0.0	0.9	0.0	−0.0	0.8	0.0
PSLL1	0.1	3.9	0.0	−0.1	3.7	0.0
SNOW	0.1	4.1	0.0	−0.1	3.7	0.0
LL	0.0	1.8	0.0	−0.0	1.6	0.0
RBUPEQ	0.0	−0.7	−0.7	−0.0	−0.0	0.0
RBDWEQ	−0.0	0.7	0.0	0.0	0.0	0.0
EQ	−0.0	0.0	0.0	−0.3	−0.0	0.0
WL1	−0.1	−2.5	0.0	−0.0	−2.2	0.0
WL2	−1.4	−0.8	0.0	−1.7	−0.7	0.0
LWL1	1.1	−2.2	0.0	1.6	−1.7	0.0
RBUPLW	0.0	−1.2	−1.2	−0.0	−0.0	0.0
LWL2	1.1	−1.9	0.0	1.6	−1.7	0.0
LWL3	1.1	−1.5	0.0	1.6	−1.3	0.0
LWL4	1.1	−1.4	0.0	1.6	−1.3	0.0
WL3	1.1	−1.6	0.0	1.5	−1.5	0.0
WL4	−0.1	0.0	0.0	−0.2	0.0	0.0
SBAL	0.1	4.1	0.0	−0.1	3.7	0.0
DSNW	0.0	0.3	0.0	−0.0	1.6	0.0
RBDWLW	−0.0	1.2	0.0	0.0	0.0	0.0

LOAD GROUP DESCRIPTION

DL : Roof Dead Load
COLL : Roof Collateral Load
PSLL1 : Pattern Snow Load Left Leanto/Canopy [PSLLxx]
SNOW : Roof Snow Load
LL : Roof Live Load
RBUPEQ : Upward Acting Rod Brace Load from Longit. Seismic
RBDWEQ : Downward Acting Rod Brace Load from Long. Seismic
EQ : Lateral Seismic Load [parallel to plane of frame]
WL1 : Lateral Primary Wind Load
WL2 : Lateral Primary Wind Load
LWL1 : Longitudinal Primary Wind Load
RBUPLW : Upward Acting Rod Brace Load from Longitud. Wind
LWL2 : Longitudinal Primary Wind Load
LWL3 : Longitudinal Primary Wind Load
LWL4 : Longitudinal Primary Wind Load
WL3 : Lateral Primary Wind Load
WL4 : Lateral Primary Wind Load
SBAL : Code Calculated Balanced Roof Snow Load
DSNW : Drifting Snow
RBDWLW : Downward Acting Rod Brace Load from Longit. Wind

FRAME ID #1 — USER NAME: bdcloar — DATE: 4/19/16 — PAGE: 1-2
lt 17.896/17.708/16.81 20./ — JOB NAME: 26518K — FILE: ltfral_a.6.fra

SUPPORT REACTIONS FOR EACH LOAD GROUP
•LOCATION: Gridlines: A.6
NOTES:(1) All reactions are in kips and kip-ft. TIME: 10:49:20
(2) The overstrength factor (Omega) is not included in the "RBDWEQ" and "RBUPEQ" Load Group reactions.
REACTION NOTATIONS Seismic "BASE-ONLY" combination reactions include an overstrength factor of: 2.500



Grid Line "A.7"
Building "E"

LOAD GROUP REACTION TABLE • = A.7

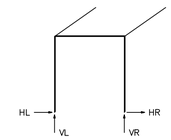
COLUMN	•-1			SUPPORT(•-2)		
LOAD GROUP	HL	VL	LNL	HR	VR	LNR
DL	0.0	1.1	0.0	−0.0	0.7	0.0
COLL	0.0	1.6	0.0	−0.0	1.4	0.0
PSLL1	0.2	6.9	0.0	−0.2	6.6	0.0
SNOW	0.2	7.3	0.0	−0.2	6.6	0.0
LL	0.1	3.2	0.0	−0.1	2.8	0.0
RBUPEQ	0.0	−0.7	−0.7	−0.0	−0.0	0.0
RBDWEQ	−0.0	0.7	0.0	0.0	0.0	0.0
EQ	0.0	0.0	0.0	−0.5	−0.0	0.0
WL1	0.2	−3.4	0.0	0.4	−3.0	0.0
WL2	−1.6	−0.4	0.0	−2.0	−0.3	0.0
LWL1	1.6	−4.0	0.0	2.3	−3.1	0.0
RBUPLW	0.0	−1.2	−1.2	−0.0	−0.0	0.0
LWL2	1.6	−3.4	0.0	2.3	−3.0	0.0
LWL3	1.6	−2.8	0.0	2.2	−2.3	0.0
LWL4	1.6	−2.5	0.0	2.2	−2.2	0.0
WL3	1.3	−2.5	0.0	1.9	−2.2	0.0
WL4	−0.4	0.5	0.0	−0.6	0.4	0.0
SBAL	0.2	7.3	0.0	−0.2	6.6	0.0
DSNW	0.0	0.6	0.0	−0.0	2.8	0.0
RBDWLW	−0.0	1.2	0.0	0.0	0.0	0.0

LOAD GROUP DESCRIPTION

DL : Roof Dead Load
COLL : Roof Collateral Load
PSLL1 : Pattern Snow Load Left Leanto/Canopy [PSLLxx]
SNOW : Roof Snow Load
LL : Roof Live Load
RBUPEQ : Upward Acting Rod Brace Load from Longit. Seismic
RBDWEQ : Downward Acting Rod Brace Load from Long. Seismic
EQ : Lateral Seismic Load [parallel to plane of frame]
WL1 : Lateral Primary Wind Load
WL2 : Lateral Primary Wind Load
LWL1 : Longitudinal Primary Wind Load
LWL2 : Longitudinal Primary Wind Load
LWL3 : Longitudinal Primary Wind Load
LWL4 : Longitudinal Primary Wind Load
WL3 : Lateral Primary Wind Load
WL4 : Lateral Primary Wind Load
SBAL : Code Calculated Balanced Roof Snow Load
DSNW : Drifting Snow
RBDWLW : Downward Acting Rod Brace Load from Longit. Wind

FRAME ID #7 — USER NAME: bdcloar — DATE: 4/19/16 — PAGE: 7-2
pf 22.333/24.042 main buildin — JOB NAME: 26518A — FILE: p7.fra

SUPPORT REACTIONS FOR EACH LOAD GROUP
LOCATION: bays 4-(Gridline 7)
NOTE: All reactions are in kips and kip-ft. TIME: 09:14:41
REACTION NOTATIONS



Grid Line "2"
Building "A" — Portal Frame

LOAD GROUP REACTION TABLE

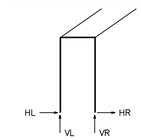
COLUMN	LEFT COLUMN			RIGHT COLUMN		
LOAD GROUP	HL	VL	LNL	HR	VR	LNR
DL	0.0	1.7	0.0	−0.0	1.7	0.0
EQ	−15.7	−40.2	0.0	−16.7	40.2	0.0
WL1	−5.6	−14.3	0.0	−5.9	14.3	0.0
WL2	5.9	14.3	0.0	5.6	−14.3	0.0

LOAD GROUP DESCRIPTION

DL : Roof Dead Load
EQ : Lateral Seismic Load [parallel to plane of frame]
WL1 : Lateral Primary Wind Load
WL2 : Lateral Primary Wind Load

FRAME ID #2 — USER NAME: bdcloar — DATE: 4/19/16 — PAGE: 2-2
pf 16.49/35. main building at — JOB NAME: 26518J — FILE: p2.fra

SUPPORT REACTIONS FOR EACH LOAD GROUP
LOCATION: bays 2b-(Gridline 2)
NOTE: All reactions are in kips and kip-ft. TIME: 10:26:18
REACTION NOTATIONS



Grid Line "2"
Building "B" — Portal Frame

LOAD GROUP REACTION TABLE

COLUMN	LEFT COLUMN			RIGHT COLUMN		
LOAD GROUP	HL	VL	LNL	HR	VR	LNR
DL	0.0	1.5	0.0	−0.0	1.5	0.0
EQ	−1.0	−5.1	0.0	−1.1	5.1	0.0
WL1	−3.1	−15.8	0.0	−3.2	15.8	0.0
WL2	3.2	15.8	0.0	3.1	−15.8	0.0

LOAD GROUP DESCRIPTION

DL : Roof Dead Load
EQ : Lateral Seismic Load [parallel to plane of frame]
WL1 : Lateral Primary Wind Load
WL2 : Lateral Primary Wind Load

Revision	Date	Description	By	Ck'd

Reviewed for Code Compliance
Portland Fire Bureau
Date: 06/08/16

A&S BUILDING SYSTEMS
1880 HWY. 116, CARYVILLE, TENNESSEE 37714
PHONE: 865-426-2141 FAX: 865-426-2011

Project Name & Location:
BAYSIDE BOWL ADDITION
58 ALDER STREET
PORTLAND ME 04101

☐ For Construction Permit
☒ For Erector Installation

Customer:
AMERICAN AERIAL SERVICES
75 BISHOP STREET
PORTLAND ME 04103

Drawing Status:
☐ Preliminary (Not For Construction)
☐ For Approval (Not For Construction)

Scale: NOT TO SCALE
Drawn by: ML 4/23/16
Checked by: MARK 4/23/16
Project Engineer: BDC
Job Number: 15-B-26518-1
Sheet Number: F8 of 8

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only.The undersigned engineer is not the overall engineer of record for this project.

Lee W. Lowe, P.E.
Maine P.E. 8861

Apr 26, 2016

STATE OF MAINE
LEE W. LOWE
8861
LICENSED
PROFESSIONAL ENGINEER