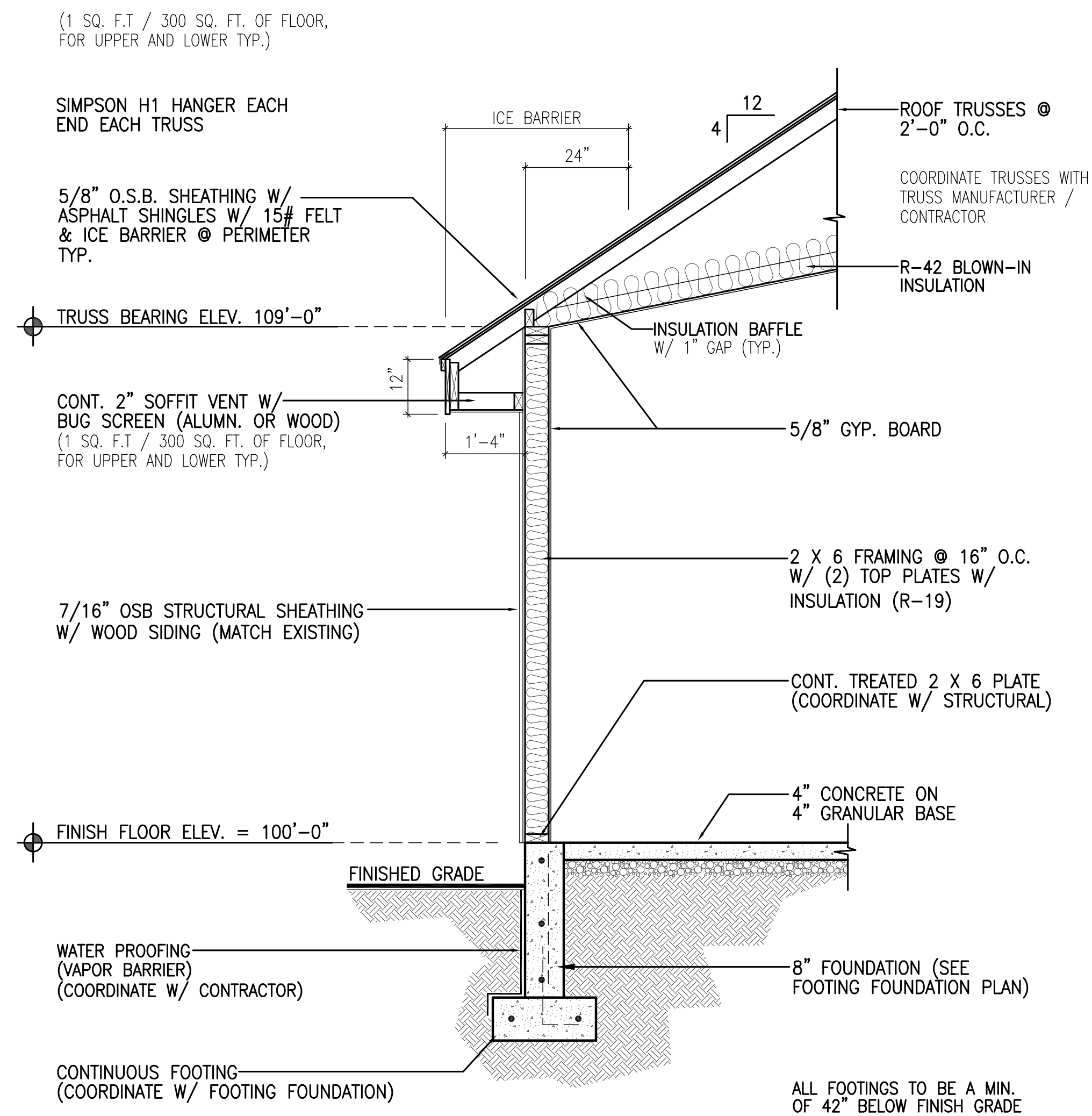


<b>FLOOR PLAN AND ELEVATIONS</b>		<b>A1</b>
<b>RIDGELINE DESIGN</b> architects		
1708 E. 5550 S. #20 South Ogden, Ut. 84403 Phone 801-392-6882 Fax 801-621-1494 ALL DRAWINGS ARE PROPERTY OF RIDGELINE DESIGN		
date: 8-6-2015	job no: 15-5	
project: <b>WOLF CREEK RESORT OFFICE ADDITION</b> Eden, UT.		



(COORDINATE W/ STRUCT. ENG.)  
**TYPICAL WALL SECTION**  
SCALE: 1/2" = 1'-0"

**TYPICAL SECTION**

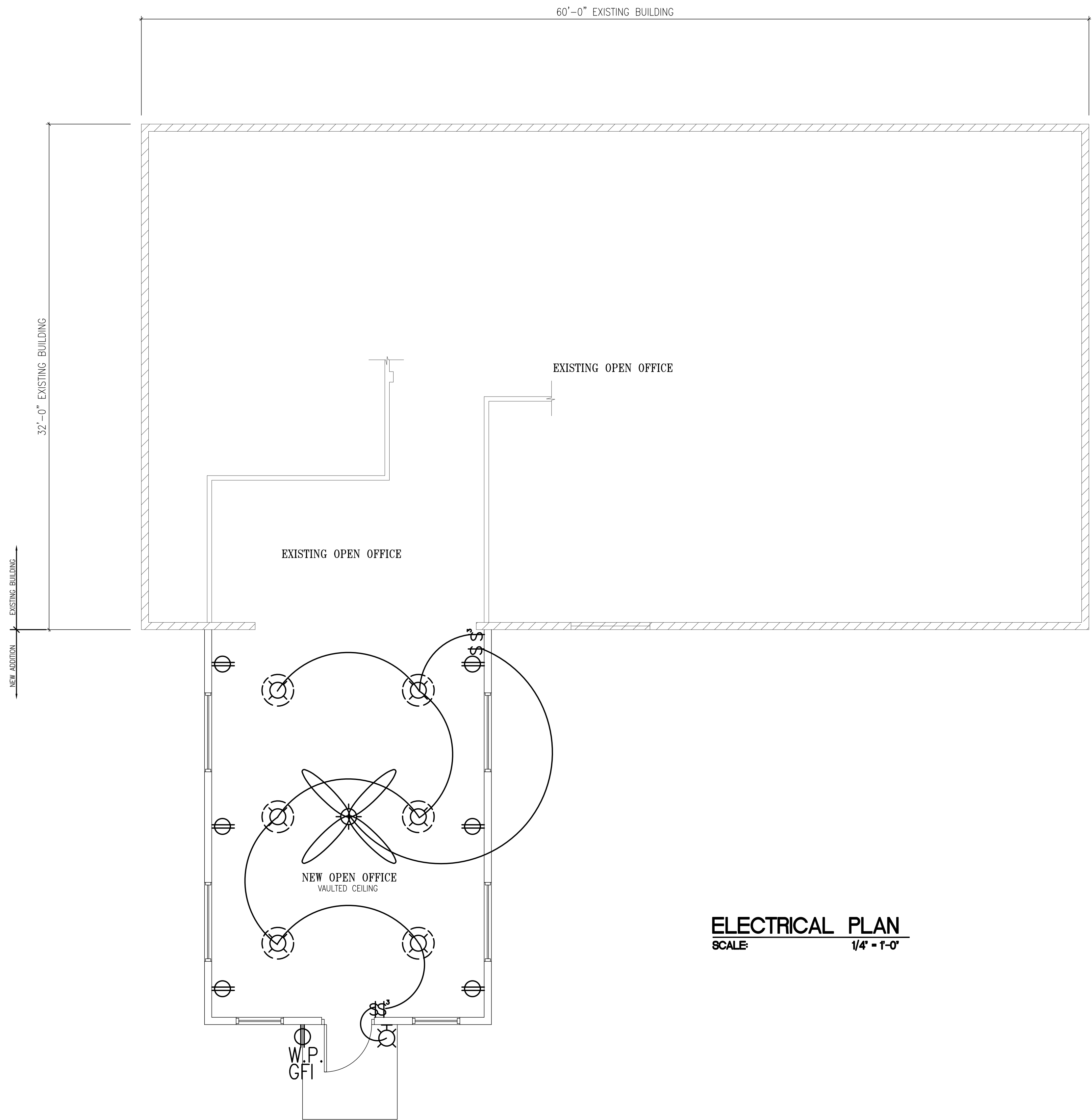
**RIDGELINE DESIGN**  
architects

1708 E. 5550 S. #20 South Ogden, Ut. 84403  
Phone 801-392-6882 Fax 801-621-1494  
ALL DRAWINGS ARE PROPERTY OF RIDGELINE DESIGN

date 8-6-2015 job no 15-5 revisions

project  
**WOLF CREEK RESORT OFFICE ADDITION**  
Eden, UT.

**A2**

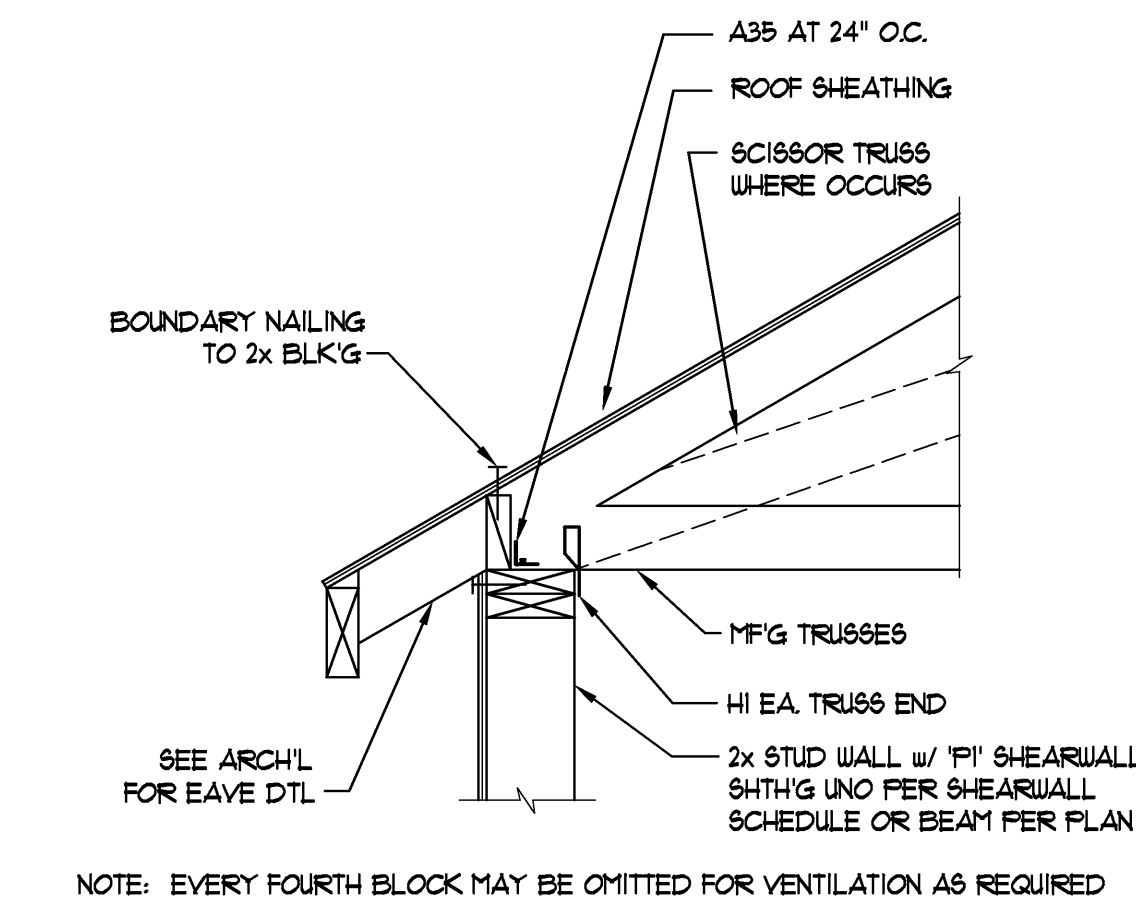


<b>ELECTRICAL</b>			<b>A3</b>
<b>RIDGELINE DESIGN</b> architects			
1708 E. 5550 S. #20 South Ogden, Ut. 84403 Phone 801-392-6882 Fax 801-621-1494 <small>ALL DRAWINGS ARE PROPERTY OF RIDGELINE DESIGN</small>			
date: 8-6-2015	job no: 15-5	revisions:	
project: <b>WOLF CREEK RESORT OFFICE ADDITION</b> Eden, UT.			



## FOUNDATION PLAN

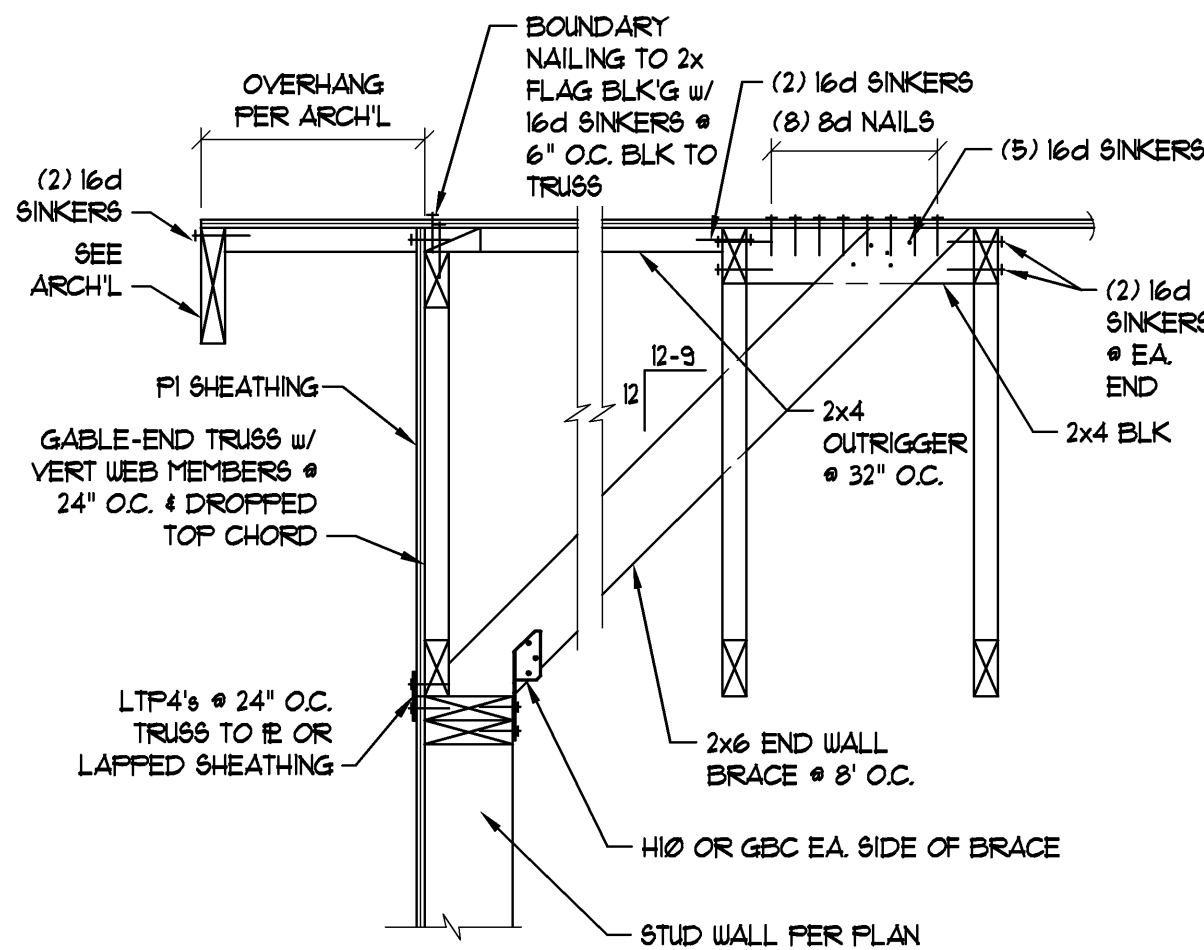
**S1**



TYPICAL ROOF TRUSS BEARING

N.T.S.

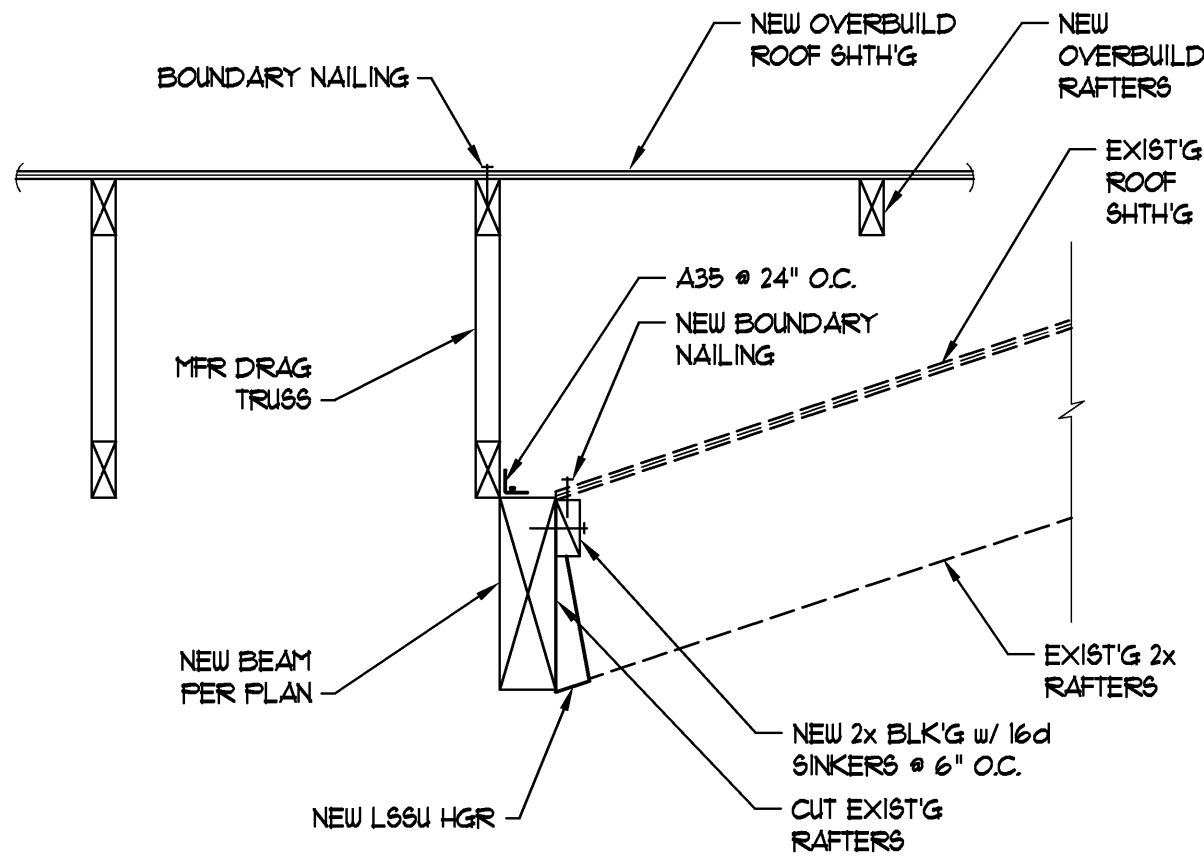
9



GABLE END BRACE

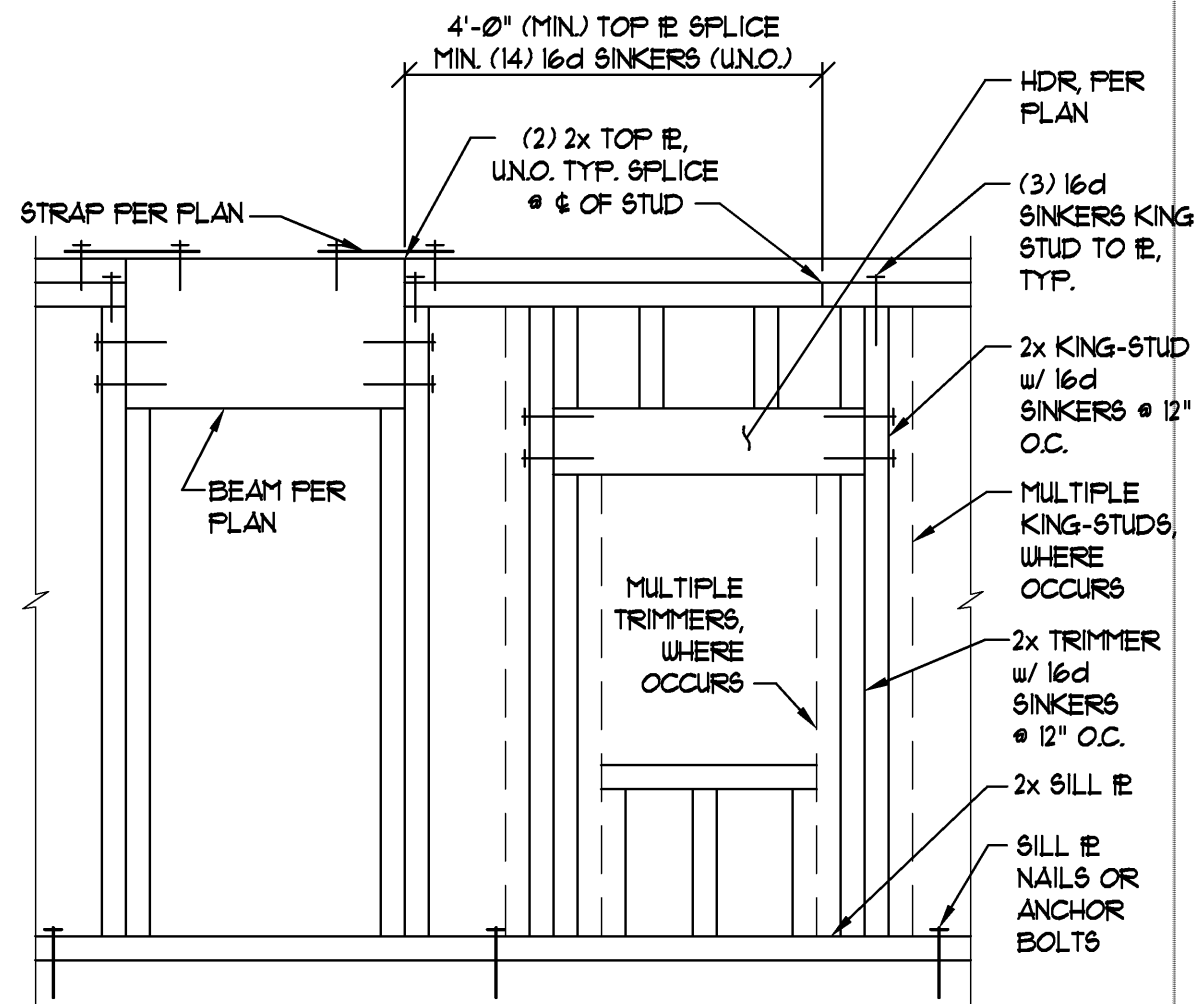
N.T.S.

10



N.T.S.

11



STANDARD WALL FRAMING

N.T.S.

6

STUD HEIGHT TABLE		STUD HEIGHT
STUD WALL TYPE	MAX. HEIGHT	
2x4 STUD @ 16" O.C.	8'-0"	8'-0"
2x4 STUD @ 12" O.C.	9'-0"	
(2) 2x4 STUD @ 16" O.C.	11'-6"	11'-6"
2x4 DFL @ 2 @ 16" O.C.	9'-0"	
2x4 DFL @ 2 @ 12" O.C.	10'-6"	12'-0"
(2) 2x4 DFL @ 2 @ 16" O.C.	12'-0"	
2x6 STUD @ 16" O.C.	14'-0"	16'-0"
2x6 STUD @ 12" O.C.	16'-0"	
(2) 2x6 STUD @ 16" O.C.	20'-0"	22'-0"
2x6 DFL @ 2 @ 16" O.C.	15'-6"	
2x6 DFL @ 2 @ 12" O.C.	17'-6"	21'-0"
(2) 2x6 DFL @ 2 @ 16" O.C.	22'-0"	
2x8 DFL @ 2 @ 16" O.C.	21'-0"	24'-6"
2x8 DFL @ 2 @ 12" O.C.	24'-6"	
(2) 2x8 DFL @ 2 @ 16" O.C.	30'-0"	26'-0"
1-3/4 x 7-1/4 LVL STUDS @ 16" O.C.	26'-0"	

NOTES:  
1. THIS TABLE ASSUMES 15C WIND LOADS w/ 15 mph EXP. "C"  
2. THIS TABLE ASSUMES AXIAL DL = 500 lb/ft, LL = 500 lb/ft.

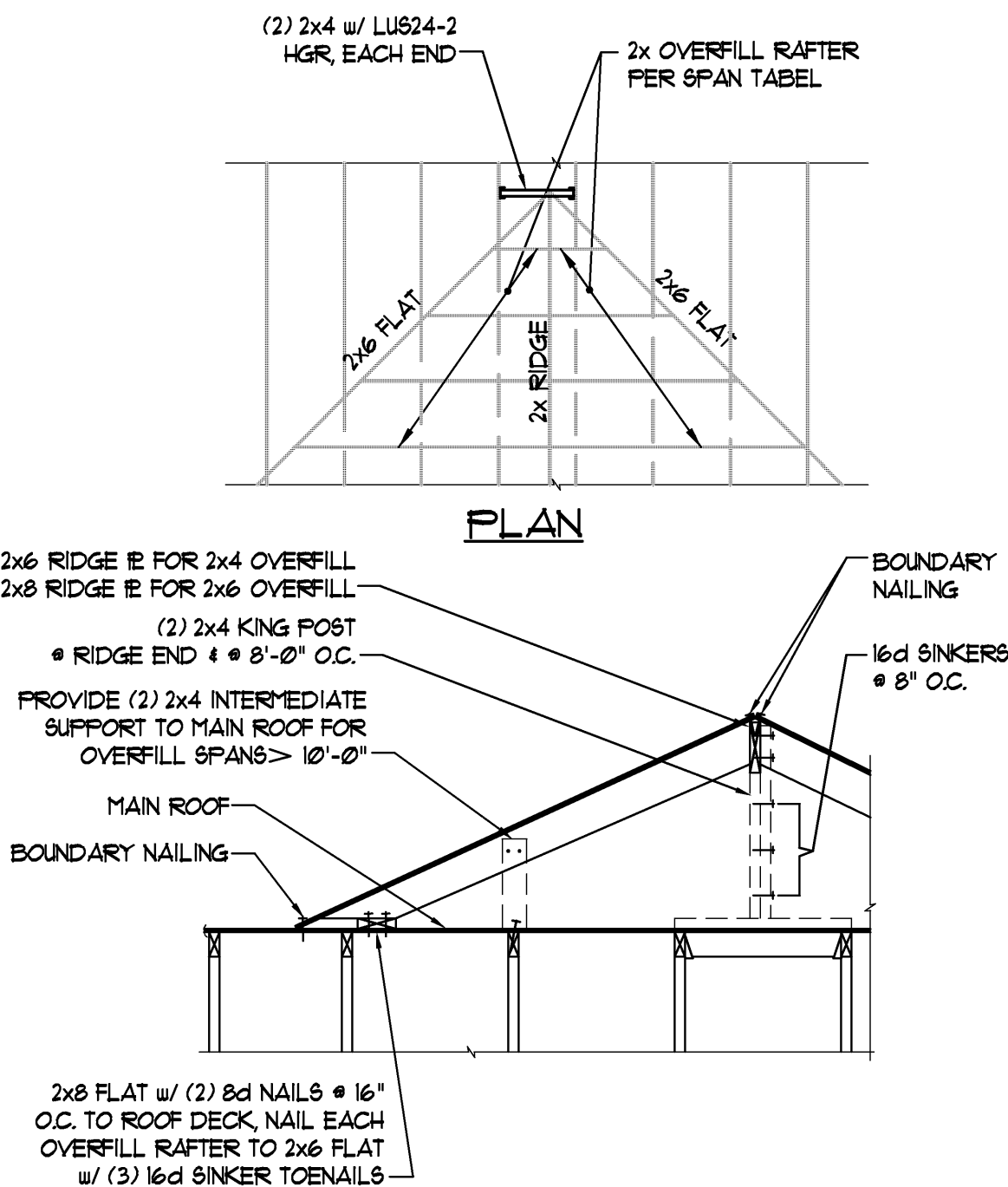
TRIMMER & KING STUD TABLE		
OPENING WIDTH (w)	TRIMMER STUDS	KING STUDS
w < 6'-0"	x 1	x 1
6'-0" < w < 10'-0"	x 2	x 2
10'-0" < w < 18'-0"	x 3	x 3

NOTE:  
SPANS BASED ON 20 psf LL, 11 psf DL, AND 30 psf SL

STANDARD STUD TABLES

N.T.S.

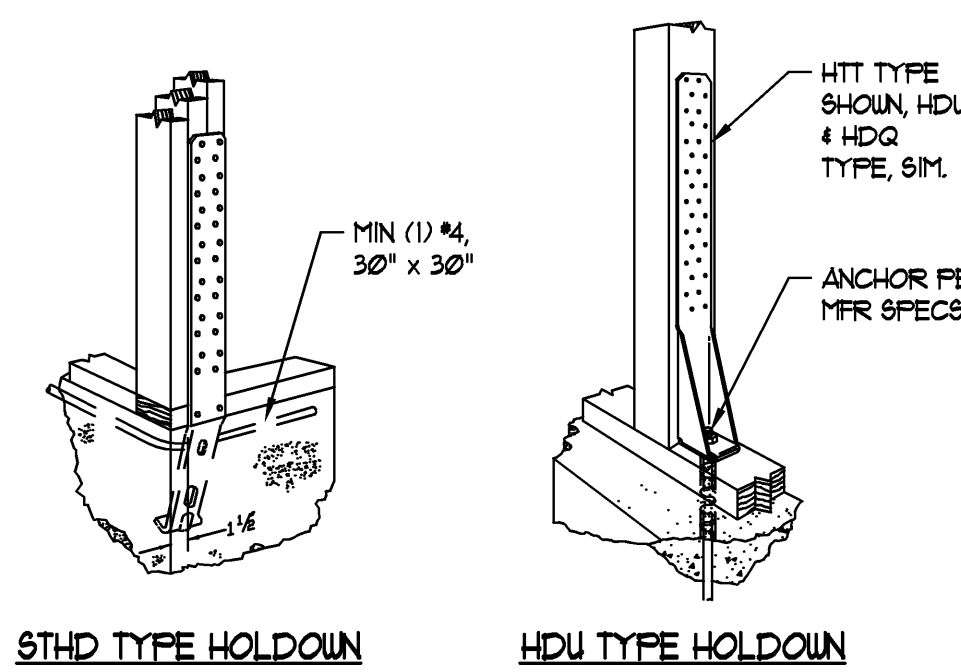
7



TYPICAL OVERBUILD FRAMING

N.T.S.

8



TYPICAL HOLDOWNS

N.T.S.

3

FOOTING SCHEDULE		
MARK	SIZE	REBAR
F-1	1'-8" CONT. x 10" DEEP	(2) # 4 CONT.

NOTE: PROVIDE 1'-8" MIN. LAP FOR # 4 BARS

FOOTING SCHEDULE

N.T.S.

4

- GENERAL:**
- ARCHITECTURAL AND SITE PLANS FOR THIS PROJECT WERE PREPARED BY OTHERS. VECTOR STRUCTURAL ENGINEERS ASSUMES NO LIABILITY FOR THE ACCURACY, COMPLETENESS, OR CODE COMPLIANCE OF ARCHITECTURAL, ELECTRICAL, MECHANICAL OR DRAINAGE SPECIFICATIONS. ALL DIMENSIONS SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.
  - STRUCTURAL DESIGN IS BASED UPON THE INTERNATIONAL BUILDING CODE, 2012 EDITION DESIGN LOADS.  
DEAD LOADS: ROOF: 15 PSF  
LIVE LOADS: ROOF: 20 PSF  
WIND: 141 mph (3 SECOND GUST), EXPOSURE "C"  
SEISMIC: DESIGN CATEGORY "D", SITE CLASS "D", RISK CATEGORY II  
S<sub>s</sub> = 0.245, S<sub>1</sub> = 0.351, S<sub>ds</sub> = 0.754, S<sub>d1</sub> = 0.422, C<sub>s</sub> = 0.116, R = 6.5
  - FOUNDATION DESIGN IS BASED UPON 1500 PSF ALLOWABLE BEARING PRESSURE. VECTOR STRUCTURAL ENGINEERS STRONGLY RECOMMENDS INDEPENDANT SOILS TESTING BE PERFORMED BY A LICENSED GEOTECHNICAL ENGINEER TO VERIFY SOIL BEARING CAPACITY, SLOPE STABILITY, AND ANY OTHER RELATED SOIL PARAMETER, AS REQUIRED.
  - STRUCTURAL REQUIREMENTS SHOWN ON THE FRAMING PLANS AND THESE DETAILS SHALL TAKE PRECEDENCE OVER STRUCTURAL CALLOUTS INDICATED ON ARCHITECTURAL SECTIONS.
- CONCRETE:**
- ALL CONCRETE MIXING, PLACEMENT, FORMING, AND REINFORCING INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318, LATEST EDITION.
  - CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI. STRUCTURAL DESIGN IS BASED UPON 2500 PSI, THIS, NO SPECIAL INSPECTION IS REQUIRED.
  - CEMENT FOR ALL CONCRETE SHALL BE TYPE I OR II WITH A MINIMUM OF 6% ENTRAINED AIR. MAXIMUM AGGREGATE SIZE SHALL BE 3/4".
  - REINFORCING STEEL SHALL BE PER ASTM A615, GRADE 60, UNO. REINFORCING BAR SIZE AND PLACEMENT SHALL BE AS INDICATED ON THE PLANS AND DETAILS. WELDING OF REINFORCING STEEL IS NOT PERMITTED.
- FRAMING:**
- WHERE SPECIFIED, DIMENSIONAL SAWN LUMBER SHALL BE AS FOLLOWS:  
DFL STUD GRD: 2x STUDS UP TO 10' TALL.  
DFL #2: 2x AND 4x BEAMS, HEADERS, RAFTERS, JOISTS, PLATES, STUDS UP TO 10' TALL.  
DFL #1: 6x BEAMS, HEADERS, POSTS
  - LAMINATED VENEER LUMBER (LVL) SPECIFIED ON THE PLANS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: E = 1,900,000 PSI, F<sub>b</sub> = 2,600 PSI, F<sub>v</sub> = 225 PSI.
  - GLULAM BEAMS (GLB) SPECIFIED ON THE PLANS SHALL BE SERIES 24F-V4 DFL/DF FOR SIMPLY SUPPORTED BEAMS AND 24F-V8 DFL/DF FOR CANTILEVER AND CONTINUOUS BEAMS.
  - WOOD STRUCTURAL PANELS SHALL BE APA RATED PLYWOOD OR OSB.
  - UNLESS NOTED OTHERWISE, ROOF DECK SHALL BE 5/8" WOOD STRUCTURAL PANEL, UNBLOCKED, WITH PANEL RATING OF 40/20. NAILING SHALL BE 10d AT 6" O.C. ALL BOUNDARIES AND SUPPORTED EDGES, AND 12" IN FIELD. STAPLES MAY REPLACE NAILS: 16 GA. AT 4" O.C. ALL BOUNDARIES AND SUPPORTED EDGES AND 8" O.C. FIELD. STAPLES SHALL HAVE 1" MIN. PENETRATION INTO FRAMING MEMBER.
  - UNLESS NOTED OTHERWISE, FLOOR DECK SHALL BE 3/4" TAG WOOD STRUCTURAL PANEL, UNBLOCKED, WITH PANEL RATING OF 48/24. NAILING SHALL BE 16d AT 6" O.C. ALL BOUNDARIES AND SUPPORTED EDGES, AND 12" IN FIELD.
  - PREMANUFACTURED TIMBER TRUSSES SHALL BE DESIGNED BY THE TRUSS MANUFACTURER. TRUSS LAYOUTS SHALL MATCH THE FRAMING PLANS AND SHALL BE SUBMITTED TO VECTOR STRUCTURAL ENGINEERS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. ALL TRUSSES TO TRUSS AND TRUSS TO BEAM HANGERS SHALL BE SPECIFIED BY THE TRUSS DESIGNER. TRUSSES PARALLEL TO INTERIOR SHEAR WALLS SHALL BE DESIGNED FOR THE LATERAL LOADS INDICATED ON THE FRAMING PLANS.

STRUCTURAL GENERAL NOTES

N.T.S.

1

SHEAR WALL SCHEDULE			
MARK	MATERIAL	NAILING	SILL PLATE CONNECTION
W1	176" STRUCT. II FLYWOOD OR OSB	8d @ 6" O.C. ALL EDGES @ 12" O.C. IN FIELDS	16d @ 6" O.C. or 1/2" DIA. ANCHOR BOLTS @ 12" O.C.
W2	176" STRUCT. II FLYWOOD OR OSB	8d @ 4" O.C. ALL EDGES @ 12" O.C. IN FIELDS	16d @ 4" O.C. or 1/2" DIA. ANCHOR BOLTS @ 24" O.C.
W3	176" STRUCT. II FLYWOOD OR OSB	8d @ 3" O.C. ALL EDGES @ 12" O.C. IN FIELDS	16d @ 3" O.C. or 1/2" DIA. ANCHOR BOLTS @ 16" O.C. (SEE NOTE 3)
W4	176" STRUCT. II FLYWOOD OR OSB	8d @ 2" O.C. ALL EDGES @ 12" O.C. IN FIELDS	16d @ 2" O.C. or 1/2" DIA. ANCHOR BOLTS @ 12" O.C. (SEE NOTE 3)

NOTES:  
1. ALL FLYWOOD SHEAR WALLS ARE BLOCKED AT ALL FREE EDGES.  
2. ALL ANCHOR BOLTS SHALL HAVE 1" MIN. EMBEDMENT AND SHALL BE PER ASTM A307 (MAY SUBSTITUTE TITEN-ND ANCHORS w/ 4-1/2" EMBED). PROVIDE 3"x3"x22" SQUARE WASHERS FOR ALL ANCHOR BOLTS.  
3. ALL NAILS ARE COMMON NAILS UNO.  
4. FOR SHEAR WALLS 10" & 12" ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS SHALL NOT BE LESS THAN A SINGLE 3-INCH NOMINAL MEMBER. NAILS SHALL BE STAGGERED.  
5. FOUNDATION SILL PLATES FOR SHEAR WALLS 10" & 12" SHALL BE MIN. 3-INCH NOMINAL MEMBER w/ ANCHOR BOLT SPACING SHOWN OR MAY BE A SINGLE 2-INCH NOMINAL MEMBER w/ ANCHOR BOLT SPACING REDUCED TO ONE HALF OF THE SPACING LISTED IN TABLE ABOVE.

HOLDOWN SCHEDULE		
MARK	HOLDOWN	COMMENTS
A	SHD10 / SHD10R or HDU - SD615	ATTACH TO (2) 2x POST ABOVE THE FLOOR DECK.
B	SHD10 / SHD10R or HDU - SD615	ATTACH TO (2) 2x POST ABOVE THE FLOOR DECK.
C	HDU - SD615	ATTACH TO (3) 2x POST ABOVE THE FLOOR DECK.
D	HDU11 - SD615	ATTACH TO 6x POST ABOVE THE FLOOR DECK.
E	OSB	ATTACH EACH STRAP TO 2x POST ABOVE & BELOW THE FLOOR DECK UNO.
F	OSB	ATTACH EACH STRAP TO 2x POST ABOVE & BELOW THE FLOOR DECK UNO.
G	18T60	ATTACH EACH STRAP TO (2) 2x POST ABOVE & BELOW THE FLOOR DECK UNO.

NOTES:  
1. ALL HOLDOWNS ARE PER SIMPSON STRONG-TIE.  
2. ALL SHD STRAP HOLDOWNS SHALL HAVE (1) # 4 x 30" LONG IN FOUNDATION, PER SIMPSON CATALOG.  
3. SHEAR WALL EDGE NAILING SHALL BE INSTALLED TO THE SAME POSTS ON WHICH THE HOLDOWNS ARE ATTACHED.  
4. HOLDOWNS w/ "R" DESIGNATION TO BE USED AT ALL RM JOIST APPLICATIONS.  
5. RETROFIT HDU & HDU HOLDOWNS SHALL BE ATTACHED TO A 1/4" THREADED ROD EMBED 12" MIN. IN A 1/4" DRILLED HOLE w/ SIMPSON SET-XP EPOXY (NO SUBSTITUTIONS).  
6. RETROFIT HDOS or HDUS HOLDOWNS SHALL BE ATTACHED TO A 1/4" THREADED ROD EMBED 18" MIN. IN A 1/4" DRILLED HOLE w/ SIMPSON SET-XP EPOXY (NO SUBSTITUTIONS).

SHEARWALL & HOLDOWN SCHEDULES

N.T.S.

2

DESIGNED BY: DHF		CHECKED BY: DHF	
DATE: 08-14-15		DESCRIPTION	
REV. #			

**VECTOR ENGINEERS**  
LAYTON, UTAH  
(801) 927-2054  
(801) 660-4160 FAX  
(801) 950-1775  
SANDY, UTAH  
ST. GEORGE, UTAH  
(435) 625-5122

**CAD DESIGN SPECIALISTS**  
**WOLF CREEK OFFICE ADDITION**  
**STRUCTURAL DETAILS & SCHEDULES**

**PROFESSIONAL SEAL**  
No. 329807  
DAVID H. FOTTERINGHAM  
STATE OF UTAH  
06-14-2009

L0087-007-151

**S2**