

PROJECT STRUCTURAL GENERAL NOTES (2016 CBC)

01. GENERAL

- A. These general notes shall apply to the structural drawings unless otherwise shown or noted.
B. Unless otherwise indicated all details of design, workmanship and materials shall conform to the 2016 Edition of the California Building Code (CBC) and the Minimum Design Loads for Buildings and Other Structures (ASCE/SEI 7-10).
C. Any discrepancies, errors, or omissions found by the Builder relating to the Structural Construction Documents, the Architectural Construction Documents, and actual Site Conditions shall be reported to the Architect.
D. The Builder shall verify and coordinate all dimensions among all drawings prior to proceeding with any work or fabrication.
E. The Builder is responsible for all bracing and shoring during construction.
F. DEFINITION OF SPECIAL INSPECTION: Inspection as herein required of the materials, installation, fabrication, erection or placement of components and connections requiring special expertise to ensure compliance with approved construction documents and referenced standards (see Section IBC/CBC 1704).

02. DESIGN CRITERIA

- A. Risk Category II
B. Seismic
1. Seismic importance factor (Ie): 1.0
2. Mapped spectral response acceleration: Ss = 1.542
3. Site class = D
4. Seismic design category: D
5. Response Modification Coefficient, R: see Structural Calculations
6. Basic seismic-force-resisting system: Bearing Wall System; Light-framing with wood sheathing.
7. Analysis procedure used: Equivalent Lateral Force Procedure
C. Wind
1. Basic wind speed: Vult = 130 mph
2. Importance factor: Iw = 1.0
3. Wind exposure: C
4. Internal Pressure Coefficient, see structural calculations
D. Snow
1. Ground snow load (per jurisdiction): Pg = 217 PSF
2. Importance factor: Is = 1.0
3. See Structural Calculations for: Snow Exposure Factors, Ce; Snow Thermal Factors, Ct; Flat-Roof Snow Load, Pf
E. Live Loads
1. Floor = 40 psf
2. Garage = Uniform load 40 psf, or jack load 3,000 lbs.

03. FOUNDATION

- A. A design soil bearing capacity of 2000 psf is assumed for dead plus long term live loads.
B. All foundation excavation is to be carried to undisturbed native material or placed in an approved engineered fill.
C. Over-excavation of materials shall be backfilled with concrete.
D. All backfill supporting footings and slabs shall be compacted to not less than 95% relative density in accordance with ASTM D 1557 (in lieu of alternate specification per Geotechnical Engineer).
E. Any unusual site conditions (e.g. loose fill, sub-surface water, etc.) shall be immediately reported to the Structural Engineer.
F. Specification of waterproofing for foundations and retaining walls shall be the responsibility of the Architect, Owner, or Contractor and is not the responsibility of the Structural Engineer.
A. Reinforced concrete shall conform to applicable requirements of the CBC/IBC as well as the current edition of the ACI-318.
B. Concrete shall have a 28 day compressive strength of not less than:
Concrete in exposed walls: 4000 psi
Concrete in exposed slabs: 4000 psi
Concrete stemwalls, footings: 3000 psi (Material Testing not required)
C. Slump shall be 3-4 inches.
D. Aggregate shall conform to ASTM C33 for stone concrete.
E. Provide control joints in all slabs on grade, where indicated. The maximum spacing of control joints shall not be more than 12'-0" O.C.
F. Additives containing calcium chloride shall not be used.
G. Provide water / cementitious materials ratio of 0.45
H. Provide 4-6% air entrainment for all concrete exposed to freezing
I. VERIFICATION AND SPECIAL INSPECTION PER IBC/CBC TABLE 1705.3.

06. REINFORCING STEEL

- A. All reinforcing steel shall be as follows:
1. No. 4 bars and smaller: ASTM A615, Grade 40
2. No. 5 bars and larger: ASTM A615, Grade 60
3. Reinforcing steel to be welded: ASTM A706, Grade 60
4. Welded wire fabric: ASTM A185
B. All reinforcing steel shall be accurately located and adequately secured in position prior to and during placement of concrete.
C. All details of fabrication and installation of reinforcing steel shall be in accordance with the current edition of the ACI Manual of Standard Practice.
D. Standard Hooked Bars straight extension beyond radius section:
Grade 40: 12 bar diameters
Grade 60: 20 bar diameters
E. Lap reinforcing bar splices:
Grade 40: 40 bar diameters
Grade 60: 50 bar diameters
F. Bend all horizontal wall bars 40 bar diameters around all corners, UNO.
G. Provide vertical and horizontal reinforcing bars in concrete and masonry walls to conform to the minimum provisions of ACI 318, Section 14.3, UNO.

08. ADHESIVE ANCHORS

- A. Use epoxy manufactured for appropriate application and temperature conditions. Epoxy used for bolts placed into existing concrete shall be approved for use in cracked concrete in Seismic Design Category D, such as Hilti HIT-RE 500-S0, Simpson SET-MF, Simpson SET-AT, or approved equivalent. Provide ICC report to engineer for approval.
B. Follow adhesive manufacturer's directions for proper application.
C. VERIFICATION & SPECIAL INSPECTION

Table with 3 columns: VERIFICATION & SPECIAL INSPECTION, CONT., PERIODIC. Rows include Temp of Concrete or CMU, Temp of adhesive, Hole Depth & Diameter, Cleanout, Placement.

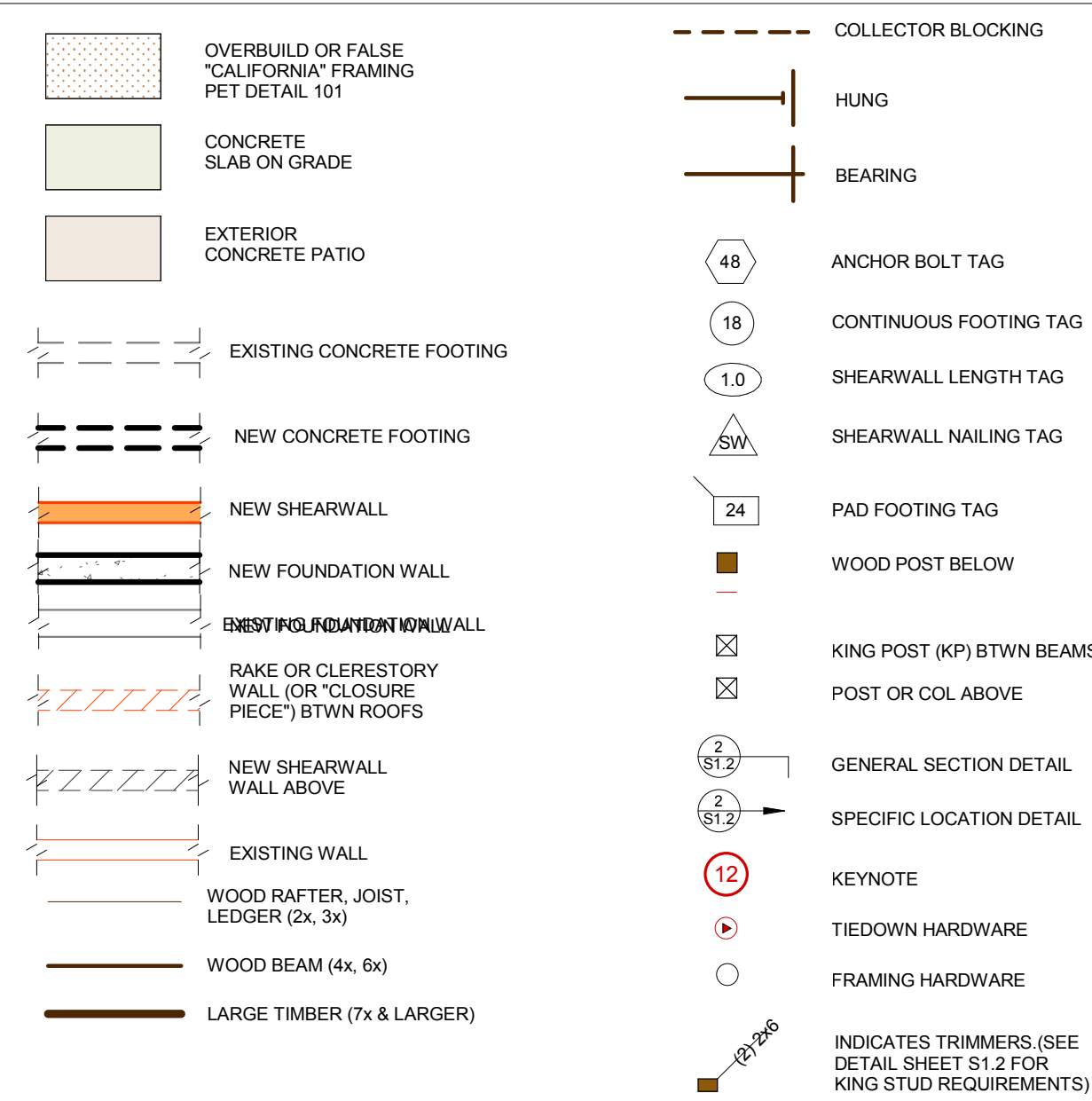
09. WOOD FRAMING

- A. All framing lumber shall be Douglas Fir, Larch #2 or better, UNO. Studs and plates may be construction grade material. 6x material shall be Douglas Fir #1 or better.
B. Preservative-treated wood
1. SBX/DOT or Zinc Borate treatments may only be used in interior-dry applications.
2. Metal fasteners in contact with preservative-treated wood:
a. SBX/DOT or Zinc Borate treatment requires no special fastener construction resistance.
b. All other treatments require hot-dip galvanized (G185 minimum) or stainless steel fasteners.
C. Manufactured wood products shall be as follows, UNO:
GLB: 24xV4 E = 1.8 Fv = 240 psi
PSL: 2.0E Fb = 2900 psi Fv = 290 psi Fc perpendicular to grain = 750 psi
LVL: 1.8E Fb = 2000 psi Fv = 285 psi Fc perpendicular to grain = 750 psi
LSL: 1.3E Fb = 1700 psi Fv = 285 psi
D. Sheathing shall be manufactured with exterior glue in accordance with requirements of the IBC/CBC and American Plywood Association. Plywood shall be manufactured in accordance with A.P.A. Std. PS-1. The grade, thickness and panel identification index shall be as shown on the plans.
E. All metal hardware and connectors shall be Simpson 'Strong Tie' or equal. Use nails per Simpson catalog, UNO. Consult Structural Engineer for nail alternates. Use stainless steel as required per Section 09.8.1 above.
F. Trusses, rafters, and joists shall align w/ studs, UNO.
G. Minimum nailing for connections not indicated on the plans shall be in accordance with Table 2304.10.1 of the CBC/IBC. (Exception: use (2) 20d box nails @ studs to 3x all plates.)
H. Fill all nail holes in hangers for "MAX" rating, TYP UNO.
I. Machine Bolts for wood members are A307 (TYP UNO). Provide standard out washers at all bolt heads and nuts bearing on wood (TYP UNO).
J. Posts shall have full area bearing to the foundation, unless noted otherwise. A Continuous Parallel to Grain load path is required only where designated "CPG".
K. Timber sizes prescribed are minimum. Larger sizes may be substituted. Detailed connections may require modifications if substitutions are made.
L. Holdown nuts shall be re-tightened just prior to covering the wall framing.
M. NAILS
1. Metal connectors are designed based upon nails specified in manufacturer's literature.
2. Shearwalls are designed based upon "common" or "box" nail values.
3. Horizontal Diaphragms are designed based upon "common" nail values.
4. Other nailed connections are designed based upon "box" and "sinker" nail values.
5. Use stainless steel nails as required for CCA or CA-B preservative-treated wood.
NAIL CHART
Diameter Min. Penetration Capacity
09# DIA. 1 inch 55 lbs.
11# DIA. 1 1/8 inch 72 lbs.
12# DIA. 1 1/8 inch 93 lbs.
13# DIA. 1 1/8 inch 103 lbs.
14# DIA. 1 1/8 inch 118 lbs.
16# DIA. 1 1/8 inch 141 lbs.
MIN ROOF / FLOOR DIAPHRAGM NAIL SIZES
8d COMMON 0.131" DIA W/ 1-3/8" MIN. PENETRATION
10d COMMON 0.148" DIA W/ 1-1/2" MIN. PENETRATION
SEE SHEARWALL SCHEDULE 1 FOR SHEARWALL NAIL SIZE REQUIREMENTS

13. STRUCTURAL OBSERVATION BY THE ENGINEER OF RECORD IS NOT REQUIRED FOR THIS PROJECT. (SEE SECTION 01.1 ABOVE FOR DEFINITION)

IBC/CBC Section 202 and 1704.6... "STRUCTURAL OBSERVATION: The visual observation of the structural system by a registered design professional for general conformance to the approved construction documents. Structural observation does not include or waive the responsibility for the inspection required by Section 110, 1705 or other sections of this code."
STRUCTURAL OBSERVATION SERVICES SHALL BE PROVIDED BY: GWISE
PLANNED FREQUENCY OF OBSERVATIONS:
At footing stage
At stemwall / formed concrete / embedment stage
At rough framing stage
PLANNED EXTENT OF OBSERVATION: General conformance of foundations and rough framing, including lateral force system.
IBC / CBC Section 1704.6... "At the conclusion of the work included in the permit, the structural observer shall submit to the building official a written statement that the site visits have been made and identify any reported deficiencies, which, to the best of the structural observer's knowledge, have not been resolved."

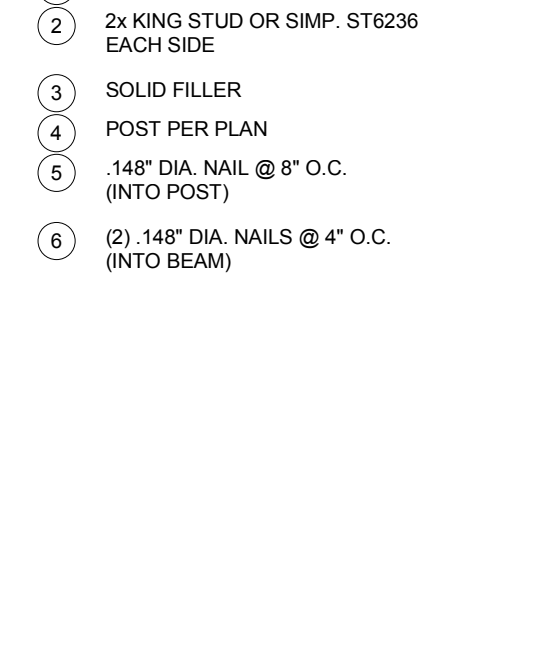
PLAN GRAPHIC LEGEND (BEST IN COLOR)



ABBREVIATIONS

Table of abbreviations including ANCHOR BOLT, ASPHALT CONCRETE, AMERICAN CONCRETE INSTITUTE, ADDITIONAL, ABOVE FINISH FLOOR, AGGREGATE, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, ALTERNATE, ALUMINUM, ARCHITECTURAL, AMERICAN SOCIETY OF TESTING AND MATERIALS, BOARD, BUILDING BLOCK, BLOCKING, BELOW, BEAM, BOTTOM OF BEARING, BOTTOM, BETWEEN, BEVELED, BOTH WAYS, CALCULATIONS, CANTILEVER, CENTER TO CENTER, CONTROL JOINT, COMPLETE JOINT PENETRATION, CEILING, CLEAR, CONCRETE MASONRY UNIT, COUNTERSINK, COLUMN, CONCRETE, PIPE COLUMN, POUNDS PER CUBIC FOOT, POCKET, POUNDS PER LINEAR FOOT, PLYWOOD, PREFABRICATED, POUNDS PER SQUARE FOOT, POUND PER SQUARE INCH, PARALLEL STRAND LUMBER, PRESSURE TREATED PAVEMENT, PENNY, DESIGNED BY OTHERS, DOUBLE, DOUG FIR, DIAMETER, DIAGONAL, DIMENSION, DECKING, DEAD LOAD, DOWN, DETAIL, DRAWING, EXISTING, EACH, EXPANSION JOINT, END LENGTH, EMBEDMENT, EDGE NAILING, ENGINEER, ENGINEER OF RECORD, EDGE OF SLAB, EQUAL, EQUIPMENT, EACH SIDE, EACH WAY, EXTERIOR, FOUNDATION, FINISH FLOOR, FINISH GRADE, FINISH FLOOR, FACE OF CONCRETE, FACE OF MASONRY, FACE OF STUD, FACE OF WALL, FULL PENETRATION, FRAMING, FAR SIDE, FOOT / FEET, FOOTING, GAGE, GALVANIZED, GLASS FIBER REINFORCED, GLUE LAM, GLU-LAM BEAM, GRADE, GYPSUM BOARD, HOLD DOWN, HEADER, HARDY FRAME, HOOK, HANGER, HORIZONTAL, HOLLOW STRUCTURAL SECTION, HEIGHT, INTERNATIONAL BUILDING CODE, INSIDE DIAMETER, INSIDE FACE, INTERIOR, INVERTED, JOIST, JOINT, KIPS, KNEE BRACE, KING POST, KING STUD, LAMINATED LEDGER POLINES, LINEAR FOOT, LIVE LOAD, LAMINATED STRAND LUMBER (TIMBERSTRAND OR EQUAL), LAMINATED VENEER LUMBER (MICROLAM OR EQUAL), MATERIAL, MAXIMUM, MACHINE BOLT, MANUFACTURER, MANUFACTURED, MINIMUM, MISCELLANEOUS, MICROLAM, METAL, NEW, NOT APPLICABLE, NOT INCLUDED, NEAR SIDE, NOT TO EXCEED, NOT TO SCALE, OVER, ON CENTER, OUTSIDE DIAMETER, OUTSIDE FACE, OVERHANG, OUTLOOKER, OPENING, OPPOSITE, PARTITION, PITCH BREAK, RADIUS, REDWOOD, REINFORCEMENT, REINFORCING BARS, REFERENCE, REQUIRED, REQUIREMENT, RETAINMENT, RETAIN, RETAINING, REVISION, RAFTER, ROUGH OPENING, S.A.D., SCHEDULE, SECTION, SQUARE FEET, SHEET, SHEATHING, SIMILAR, SLAB ON GRADE, SPECIFICATIONS, STAGGER, STAGGERED, STANDARD, STIFFENER, STEEL, STRUCTURAL, SYMMETRICAL, T&G, TOP AND BOTTOM, TIMBERSTRAND, TEMPERED, THICK, THICKNESS, THREADED, THROUGH, TOP OF, TRIMMER, TUBE STEEL, TYPICAL, UNIFORM BUILDING CODE, UNLESS NOTED OTHERWISE, VERTICAL, VERIFY IN FIELD, WITH, WOOD, WITHIN, WITHOUT, WINDOW, WATER PROOF, WEIGHT, WELDED WIRE FABRIC, YARD.

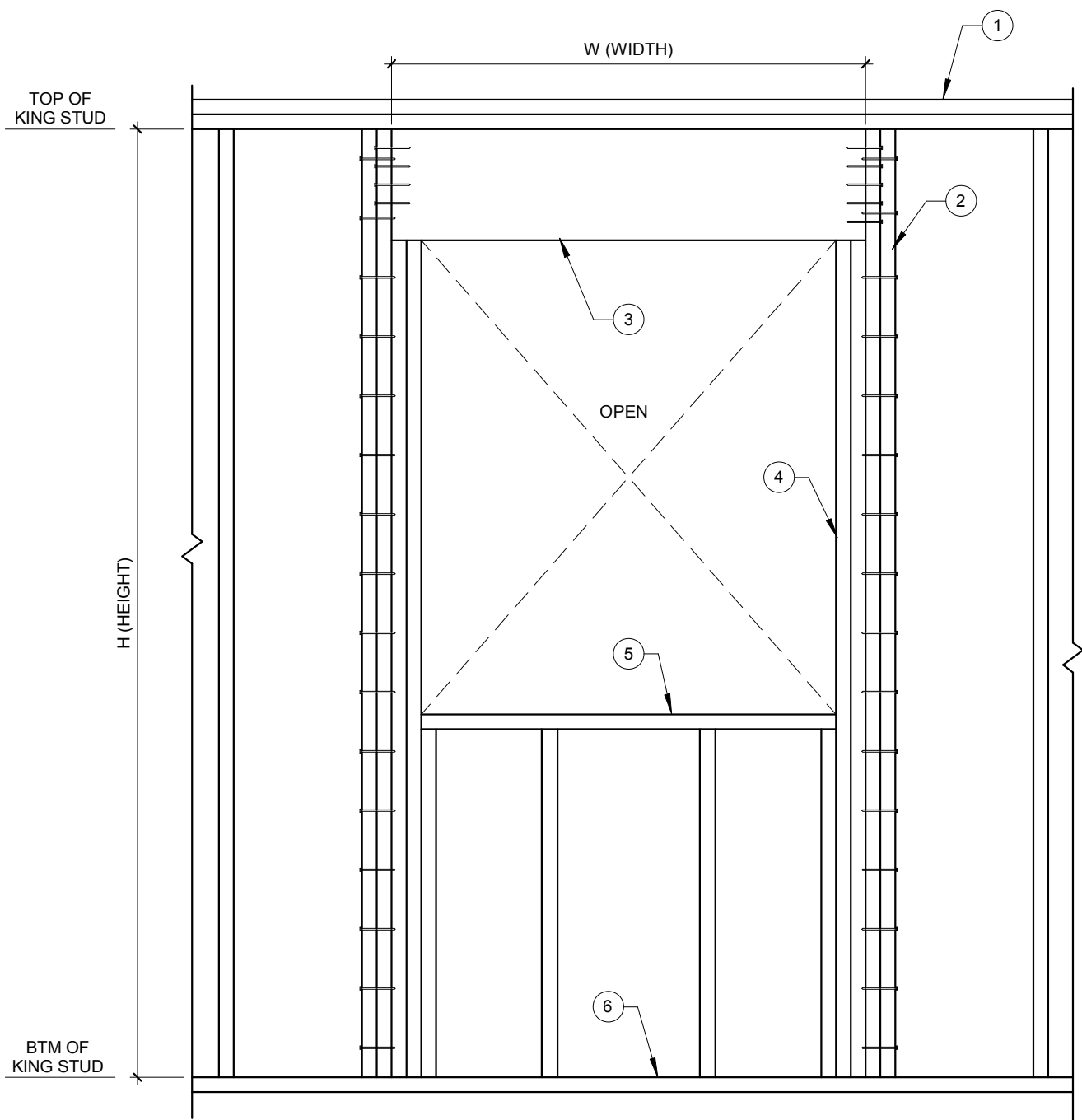
103. TYPICAL BEAM POCKET 1" = 1'-0"



ST004

KING STUD SCHEDULE

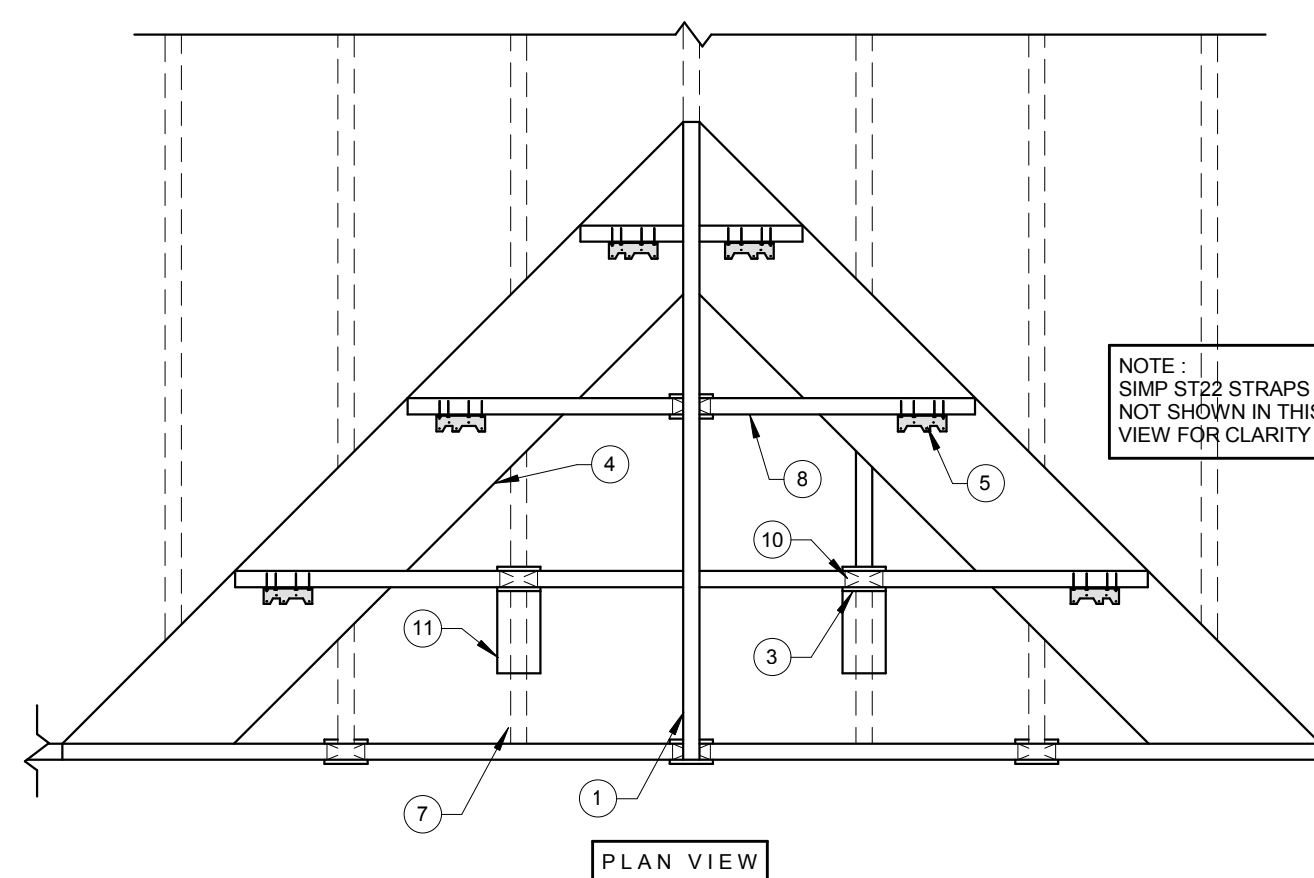
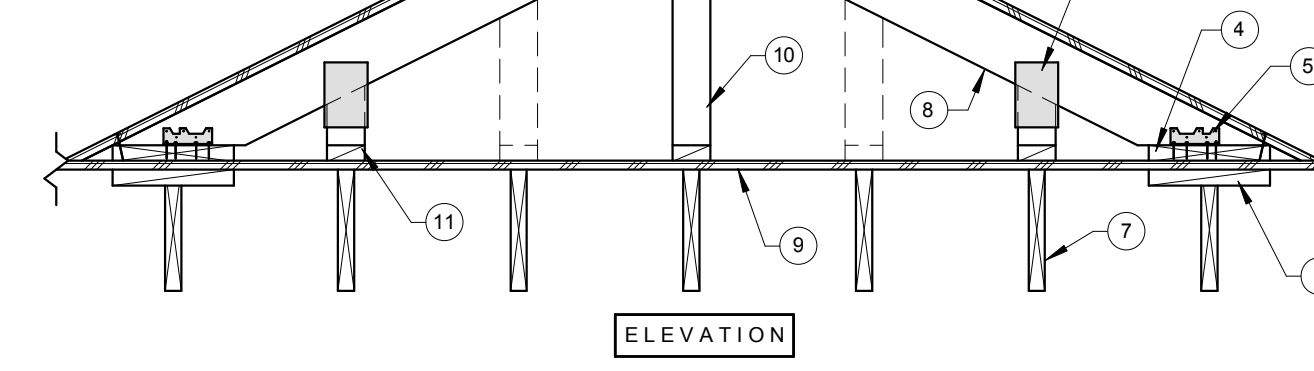
Table with columns: W (WIDTH), H (HEIGHT). Rows show dimensions from 8' TO 9' to 15' TO 16' and corresponding stud counts.



102. TYPICAL KING STUD SCHEDULE @ EXTERIOR WALLS 3/4" = 1'-0"

ST001

- 1. 2x RIDGE BOARD
2. SIMP. ST22 @ 16" O.C.
3. PLYWOOD GUSSET OR SIMP. H2.5
4. 2x12 PL W/ (4) 1/4" DIA. NAILS EACH RAFTER BELOW & (4) 1/4" DIA. NAILS @ 6" O.C. INTO BLKG
5. SIMP. A34 EACH RAFTER
6. 2x12 FLAT BLKG @ VALLEY
7. RAFTER BELOW @ 16" O.C.
8. 2x6 RAFTER @ 16" O.C.
9. CONTINUE MAIN ROOF SHTG BELOW OVERBUILD
10. 2x4 CRIPPLE @ 32" O.C., STAGD
11. 2x4 KICKER, TYP @ CRIPPLES



101. TYPICAL ROOF OVERBUILD 3/4" = 1'-0"

ST002

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PRELIMINARY: NOT FOR CONSTRUCTION

Table with columns: No., Date, Issue & Revision, By, Check. Row 1: AVF

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ACCESSIBILITY RETROFIT FOR: FRANCISCAN LAKESIDE LODGE

6944 N. LAKE BLVD. LOT xx, xx PLACER COUNTY TAHOE VISTA, CALIFORNIA A.P.N. 117-080-065

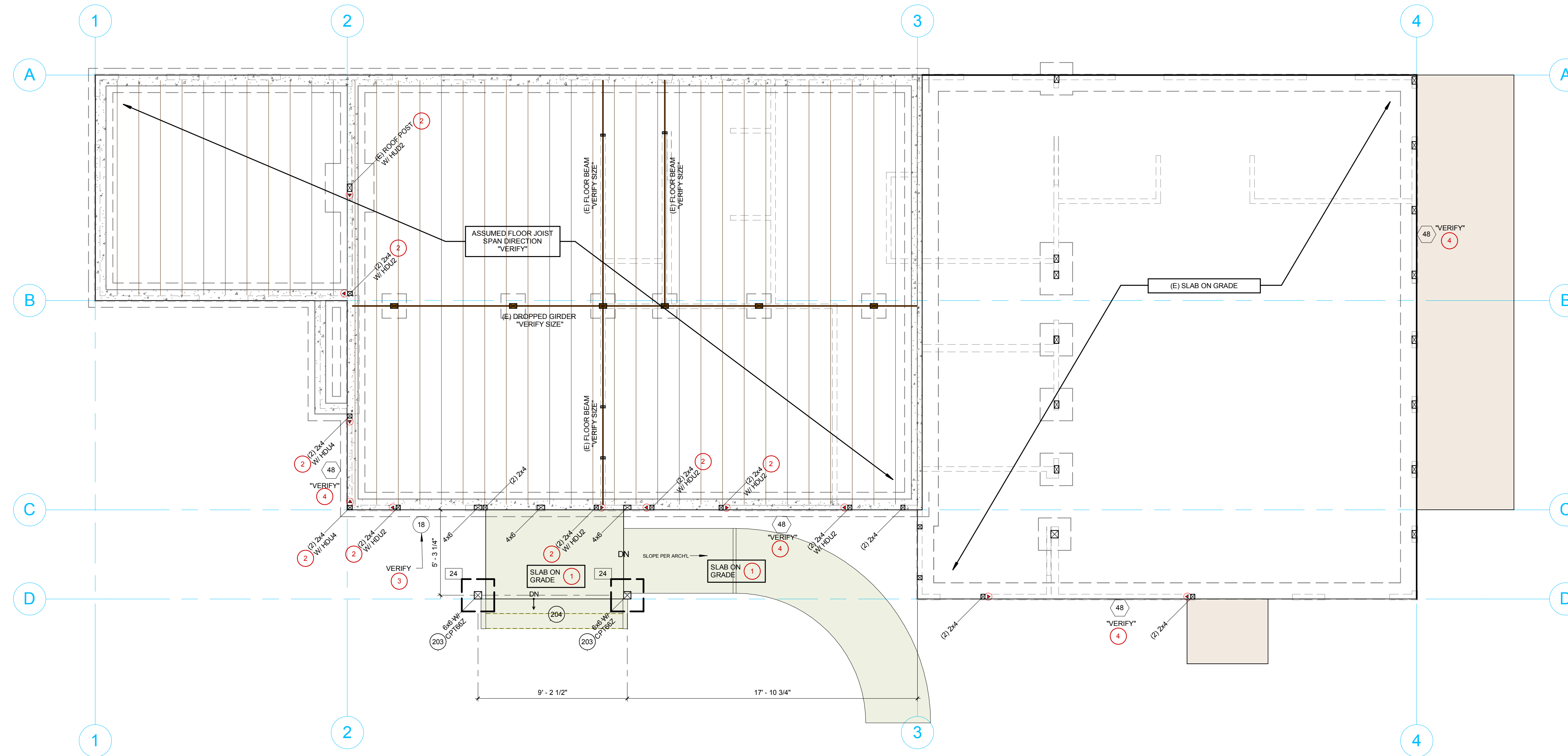
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STRUCTURAL GENERAL NOTES & DETAILS

SCALE As indicated PROJECT NO. B17-127

S1.1

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1 FOUNDATION PLAN  
1/4" = 1'-0"

**S2.1 NOTES**

**FOUNDATION:**

- ALL EXTERIOR FOOTINGS SHALL HAVE MINIMUM 24" FROST PROTECTION, U.N.O.
- BUILDER SHALL CHECK AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
- IF "PONY WALLS" OCCUR BELOW THE FLOOR, PONY WALL SHEAR WALL NAILING  $\Delta$  SHALL MATCH WALL ABOVE, U.N.O.
- POSTS MAY BEAR ON MUDDSILL, U.N.O. (NOT ALLOWED AT POSTS DESIGNATED "CPG").
- AS A MINIMUM, STEM WALLS SHALL HAVE #4 HORIZONTAL BARS @ 16" O.C. WITH MINIMUM (1) BAR TOP & BOTTOM AND #4 VERTICAL BARS (HOOKED INTO FOOTING) @ 24" O.C. TYP. U.N.O. (SEE RETAINING WALL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS).
- SEE ARCHITECTURAL DRAWINGS FOR SLAB CONTROL JOINT PATTERN, U.N.O. AS A MINIMUM, PROVIDE CONTROL JOINTS @ 12'-0" O.C. @ INTERIOR SLABS OR 6'-0" O.C. @ EXTERIOR PATIOS, EACH WAY, U.N.O.

**S2.1 KEYNOTES REFERENCED ON PLAN**

- 4" CONCRETE SLAB ON GRADE W/ #3 BARS @ 18" O.C. EACH WAY. UNDERLAYMENT DESIGNED BY OTHERS (MINIMUM 4" AGGR. BASE).
- DRILL AND EPOXY 5/8" THRD'D ROD W/ 12" EMBEDMENT USING SIMP "SET-302" EPOXY. SPECIAL INSPECTION IS REQUIRED.
- BUILDER SHALL VERIFY FOOTING WIDTH AND DEPTH BELOW GRADE. A 18" WIDE FOOTING WITH 24" FROM GRADE TO BTM OF FOOTING IS REQUIRED FOR STRUCTURAL CAPACITY ALONG GRID "C". CONTACT ENGINEER FOR RETROFIT DETAIL IF REQUIRED.
- RETROFIT ANCHOR BOLTS AS REQUIRED. USE SIMP 1/2"x6" TITEN HD ANCHORS W/ 3" x 3" x 1/4" THICK PLATE WASHERS. SPECIAL INSPECTION NOT REQUIRED.

**CONTINUOUS FOOTING SCHEDULE**

| TAG | FOOTING SIZE   | BARS        |
|-----|----------------|-------------|
| 18  | 18" W x 9" THK | (2) #4 CONT |

**ANCHOR BOLT SCHEDULE**

| TAG | BOLT SIZE AND SPACING               |
|-----|-------------------------------------|
| 48  | 1/2" A.B. @ 48" O.C. W/ 2x MUDDSILL |

**FOOTNOTES**

- Tiedown bolts may serve as anchor bolts also.

**PAD FOOTING SCHEDULE**



| TAG | PAD SIZE         | BARS           |
|-----|------------------|----------------|
| 24  | 24" SQ x 10" THK | (3) #4 BARS EW |

**FOOTNOTES**

- Place footings in undisturbed, native soils.
- Provide concrete pedestal above footing as required to extend minimum 6" above finished grade. See details.

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PRELIMINARY:  
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**ISSUES AND REVISIONS**

| No. | Date | Issue & Revision | By | Check |
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**FRANCISCAN LAKESIDE LODGE**

6944 N. LAKE BLVD.  
LOT xx, xx  
PLACER COUNTY  
TAHOE VISTA, CALIFORNIA  
A.P.N. 117-080-065

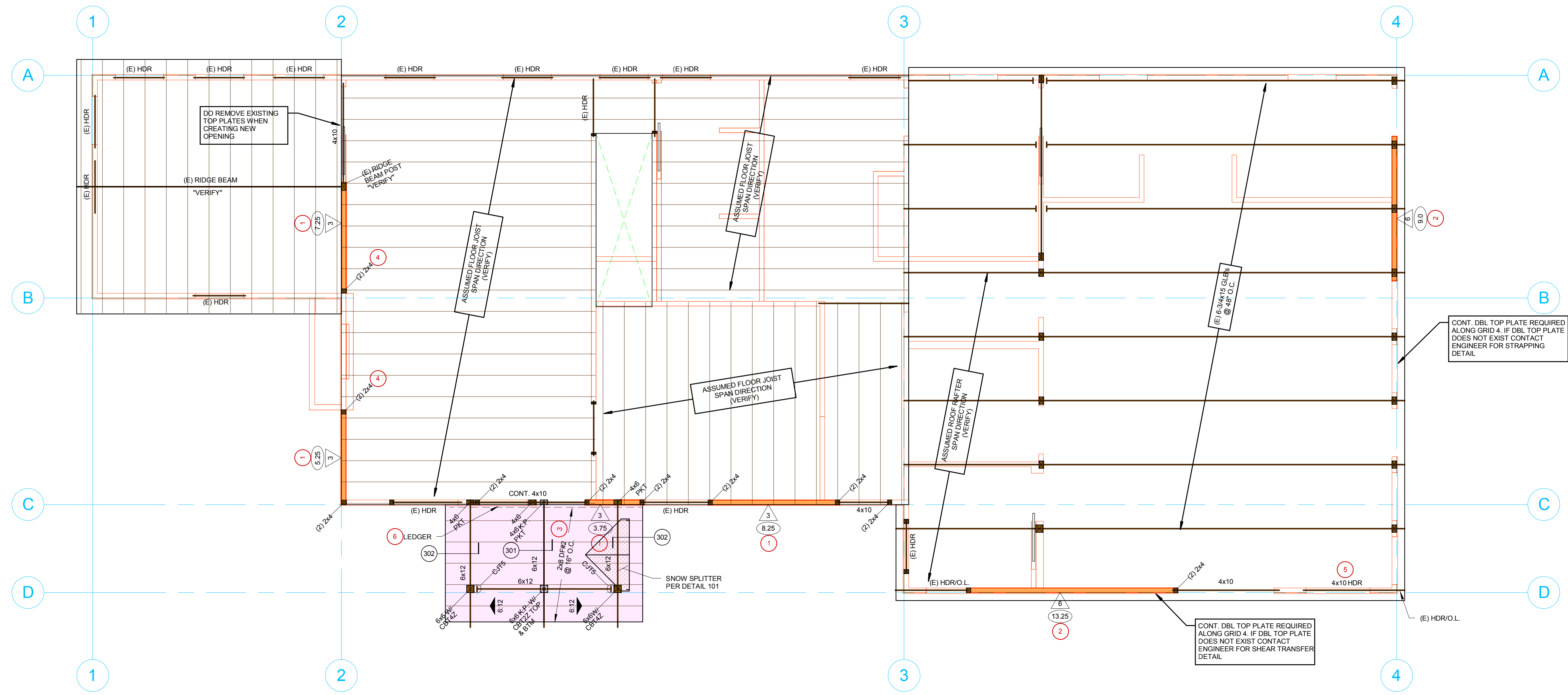
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DESCRIPTION  
**FOUNDATION PLAN**

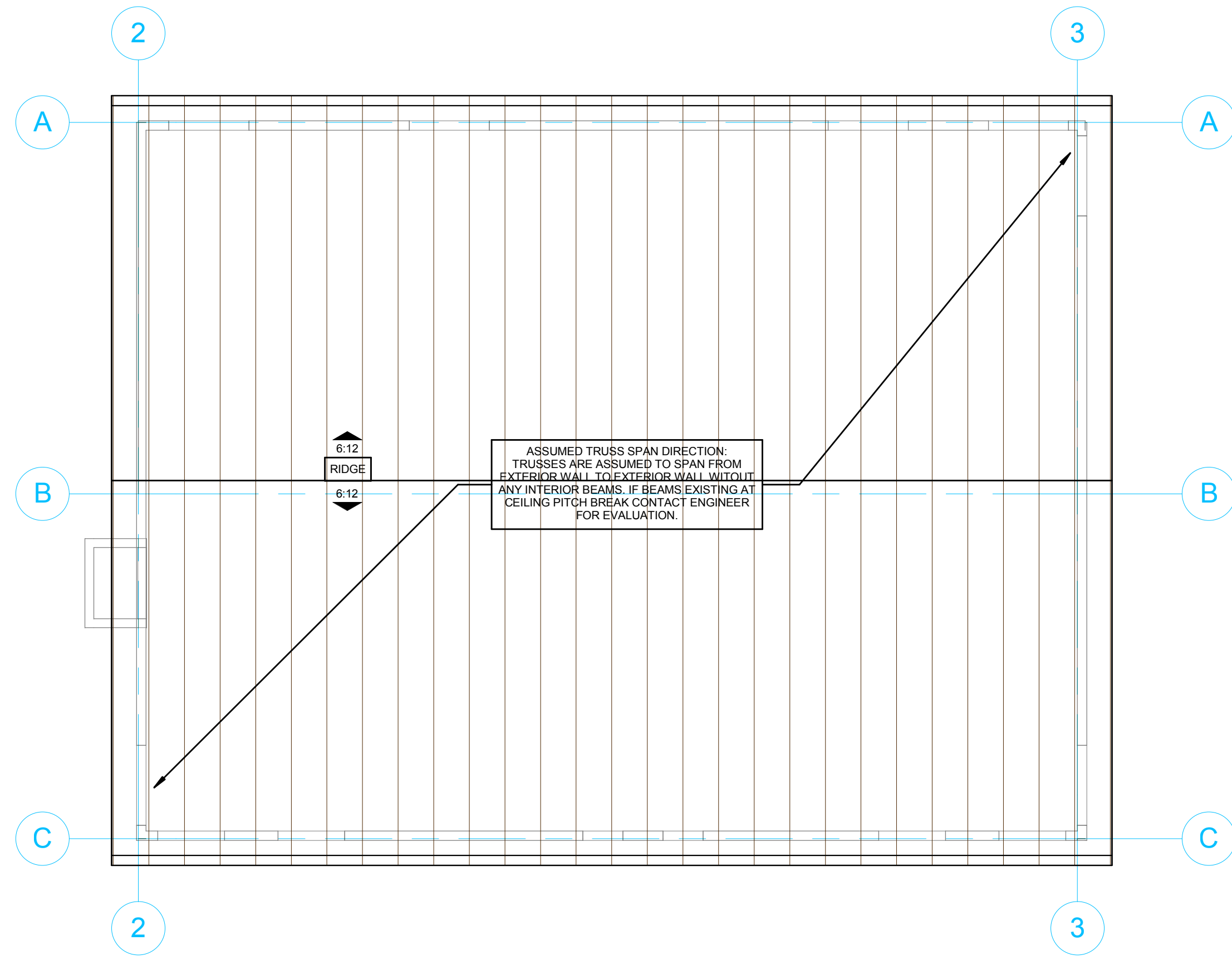
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PROJECT NO. B17-127

**S2.1**

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2 LOW ROOF UPPER FLOOR FRAMING PLAN 1/4\"/>



1 UPPER ROOF FRAMING PLAN 1/4\"/>

**S 2.2 NOTES**

FRAMING SYSTEM:

- SEE DETAIL SHEET S12 FOR TYPICAL BEAM POCKET (PKT), U.N.O.
- ALL BASIC ROOF GEOMETRY SHOWN ON ROOF FRAMING / DIAPHRAGM PLANS HAS BEEN PROVIDED BY THE ARCHITECT.
- PROVIDE FLOOR JOISTS BELOW ALL PARALLEL PARTITIONS, BLOCK BELOW PERPENDICULAR PARTITIONS.
- MINIMUM NAILING ATTACHMENT FOR RAFTERS AND JOISTS AT BEARINGS, USE (3) TOENAILS (MIN).
- KING STUDS AT OPENINGS, SEE DETAIL SHEET S12.
- ROOF OVERHANGS ARE SHOWN APPROXIMATELY TO SCALE. BUILDER SHALL VERIFY & COORDINATE WITH ARCHITECTURAL DRAWINGS & SHALL CONTACT ENGINEER IF DISCREPANCIES ARE FOUND.

LATERAL FORCE SYSTEM:

- INDICATES SHEARWALL BELOW.
- DOUBLE TOP PLATES SHALL BE LAP SPICED 48" MINIMUM W/ 148" DIA. NAILS @ 4" O.C. USE S1224 WHERE BOTH PLATES ARE BROKEN.
- EDGE NAIL SHEARWALL SHEATHING TO ALL STUDS WHICH HOLD STRAPS OR TIEDOWNS ABOVE AND BELOW, TYP.

| MIN ROOF/FLOOR DIAPHRAGM NAIL SIZES |                                       |
|-------------------------------------|---------------------------------------|
| 8d COMMON                           | 0.131" DIA W/ 1-3/8" MIN. PENETRATION |
| 10d COMMON                          | 0.148" DIA W/ 1-1/2" MIN. PENETRATION |

SEE SHEARWALL SCHEDULE I FOR SHEARWALL NAIL SIZE REQUIREMENTS

**S 2.2 KEYNOTES REFERENCED ON PLAN**

- ADD NAILING TO EXISTING T1-11 PANELS. DOUBLE 2x STUD REQUIRED AT PANEL EDGES. SPIKE DOUBLE 2x TOGETHER W/ (2) 0.148" DIA. NAILS @ 6" O.C.
- VERIFY NAIL SPACING AT EXISTING T1-11 PANELS. ADD NAILS IF REQUIRED.
- ROOF SHEATHING SHALL BE 5/8" 4020 APARATED SHEATHING NAILED W/ 8d @ 6" O.C. EDGES, 12" O.C. FIELD, U.N.O.
- EDGE NAIL SHEARPLY TO POSTS W/ HOLD-DOWNS, TYPICAL.
- HDR NOT REQD IF (E) OUTLOOKER ABOVE BACKSPANS PAST NEW OPENING.
- 2x8 LEDGER W/ (2) SDWS22400DB SCREWS @ 16" O.C. INTO EA. STUD

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6944 N. LAKE BLVD.  
LOT xx, xx  
PLACER COUNTY  
TAHOE VISTA, CALIFORNIA  
A.P.N. 117-080-065

**SW SCHEDULE 1**

SHEARWALL NAILS SHALL BE MIN. .113" DIA. x 1-7/8" LENGTH

| SW TYPE | SHEARWALL SHEATHING THICKNESS | EDGE NAIL SPACING | STUDS AT ADJOINING PANEL EDGES | SILL PLATE AGAINST CONC OR MASONRY | BTM PLATE ON SUBFLR | CAPACITY (SEISMIC) |
|---------|-------------------------------|-------------------|--------------------------------|------------------------------------|---------------------|--------------------|
| △6      | 3/8"                          | .113 @ 6" O.C.    | 2x                             | 3x                                 | 2x                  | 260                |
| △4      | 3/8"                          | .113 @ 4" O.C.    | 2x                             | 3x                                 | 2x                  | 350                |
| △3      | 3/8"                          | .113 @ 3" O.C.    | 3x                             | 3x                                 | 2x                  | 490                |
| △2      | 3/8"                          | .113 @ 2" O.C.    | 3x                             | 3x                                 | 2x                  | 640                |
| △44     | BOTH SIDES                    | .113 @ 4" O.C.    | 3x                             | 3x                                 | 3x                  | 760                |
| △33     | BOTH SIDES                    | .113 @ 3" O.C.    | 3x                             | 3x                                 | 3x                  | 980                |
| △22     | BOTH SIDES                    | .113 @ 2" O.C.    | 3x                             | 3x                                 | 3x                  |                    |

**FOOTNOTES**

- Use APA Rated Sheathing Structural II or better. Exposure I.
- Provide 3" x 3" x 1/4" thick plate washer at all sill plate A.B.S.
- Use studs @ 16" oc, U.N.O.
- Block all panel edges.
- Field Nailing: .113" DIA. @ 12" O.C.
- Nail heads are not to penetrate plywood.
- Provide edge nailing to all studs which hold bed-down hardware.
- Seathing joint nailing shall be staggered in all cases.
- Edge nailing shall not split wood members. Contact Engineer if alternate nailing or detailing is required.
- Substitution of (2) 2x for 3x members is allowed. Spike (2) 2x members together w/ (2) 0.148" dia. nails @ 6" o.c.
- At double-sided shearwalls, stagger inside and outside sheathing panel edges.

**NOTE:** DENOTES STRUCTURAL DESIGN APPROXIMATE SHEARWALL PANEL LENGTH. SEE ARCHITECTURAL FOR PRECISE WALL DIMENSIONS. IN CASE OF CONFLICT, NOTIFY ENGINEER PRIOR TO PROCEEDING.

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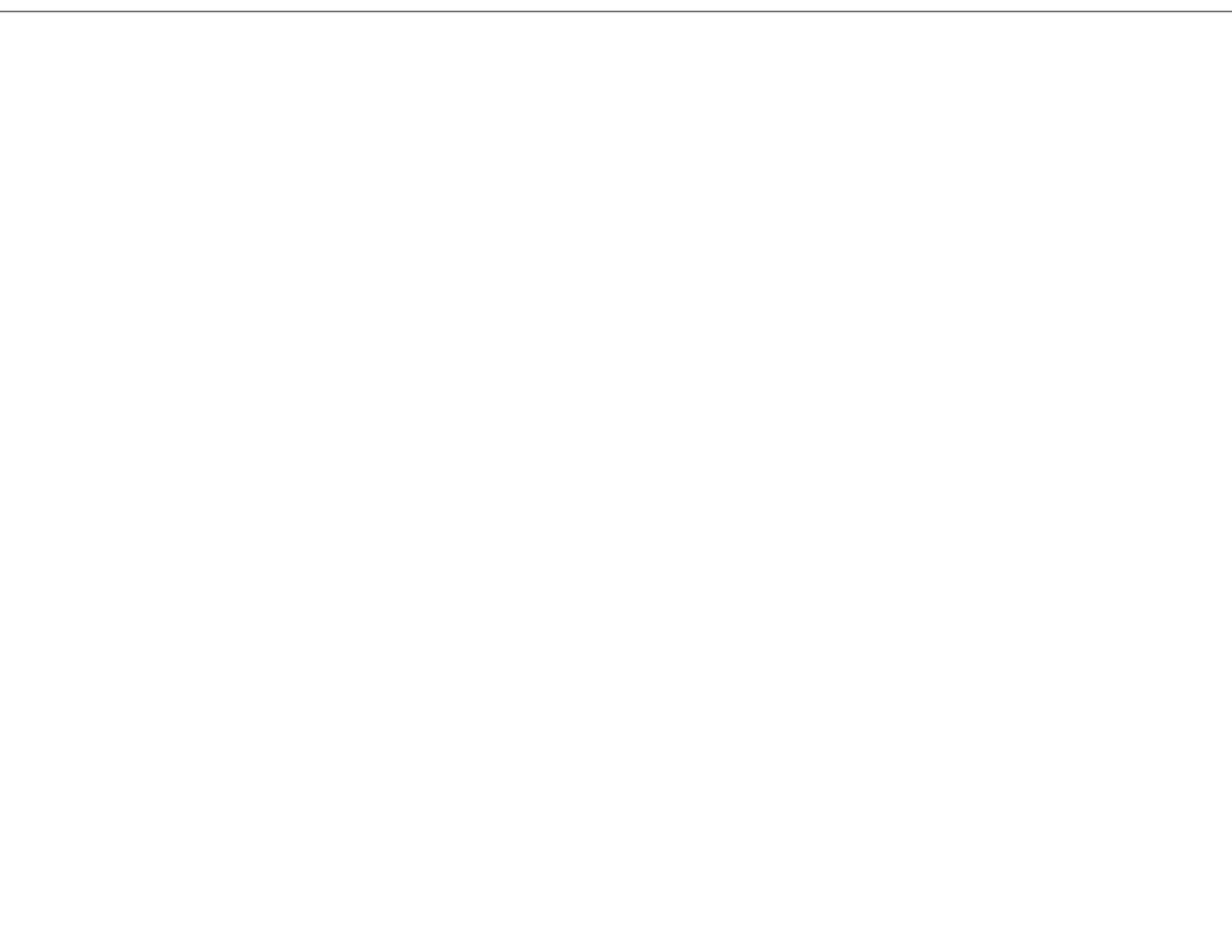
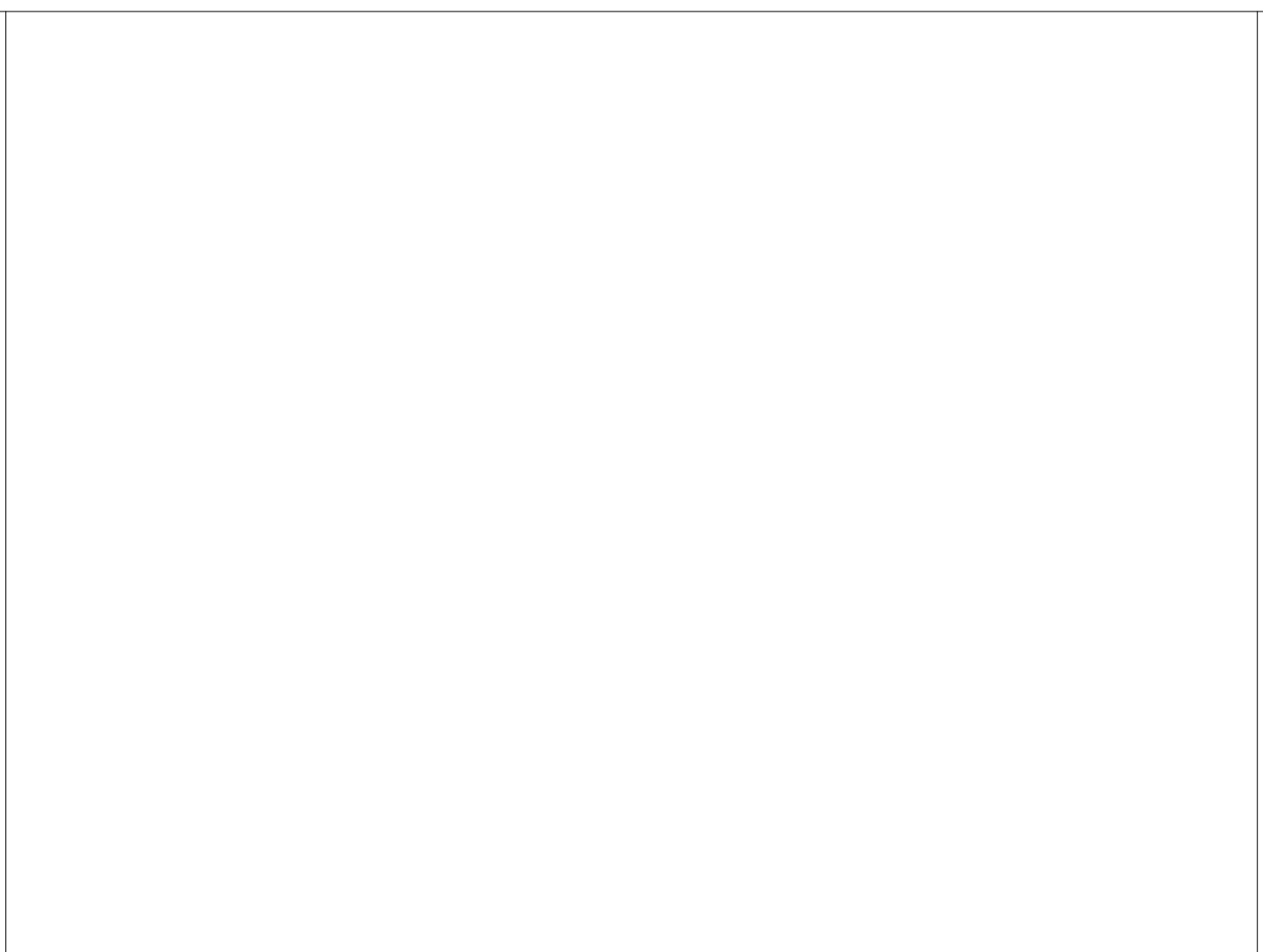
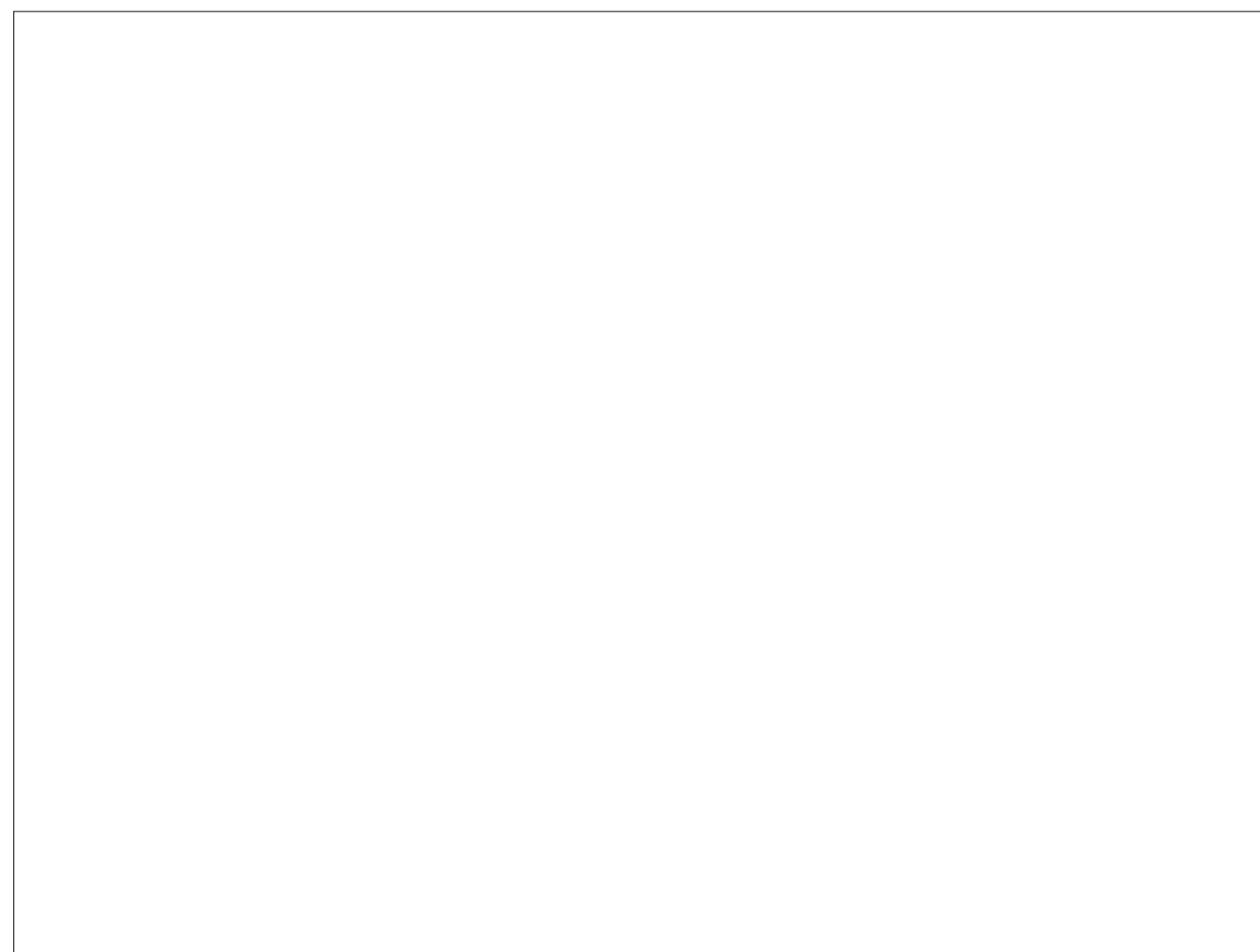
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DESCRIPTION  
**LOW ROOF UPR FLOOR FRAMING**

SCALE 1/4" = 1'-0"  
PROJECT NO. B17-127

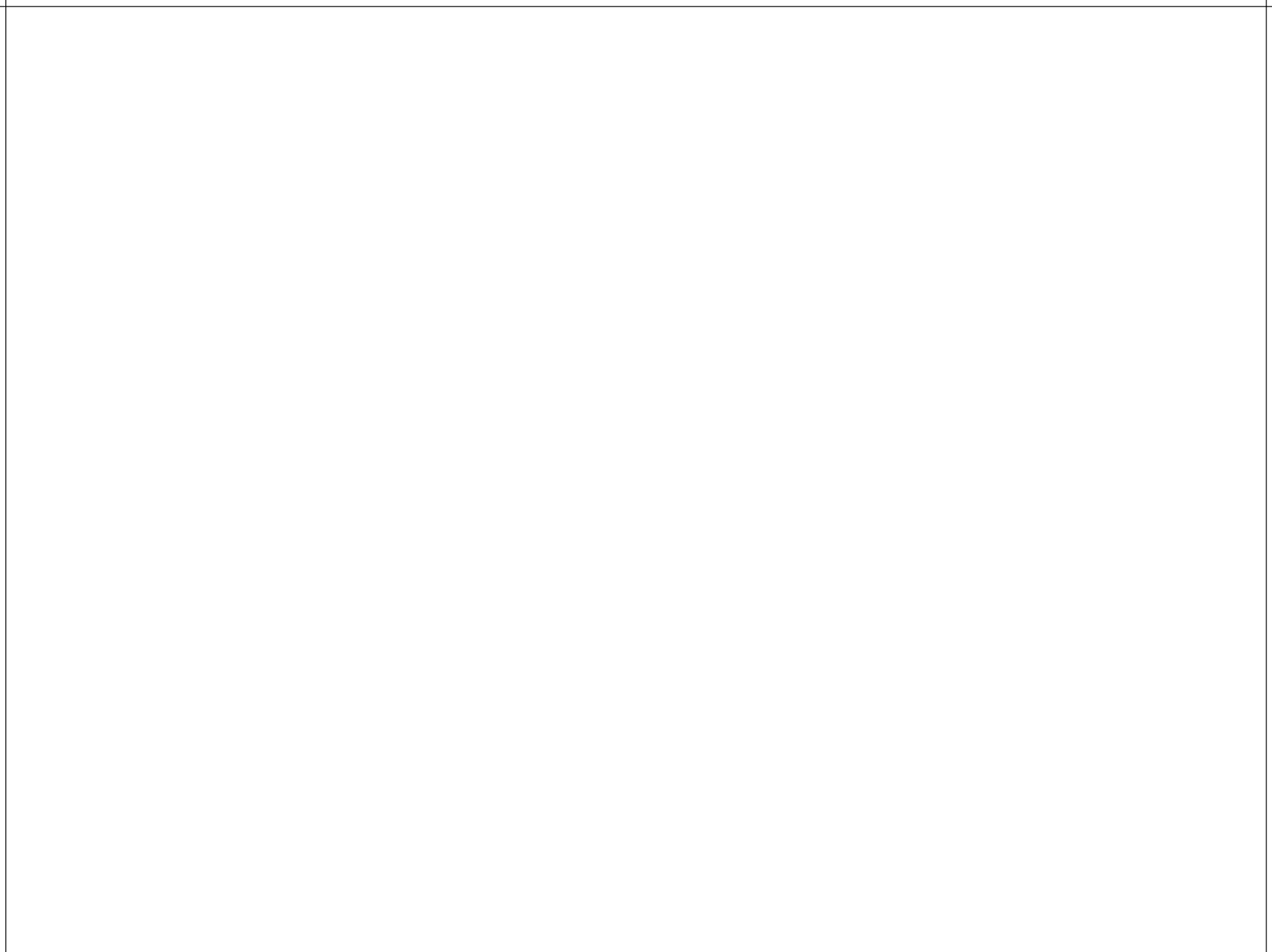
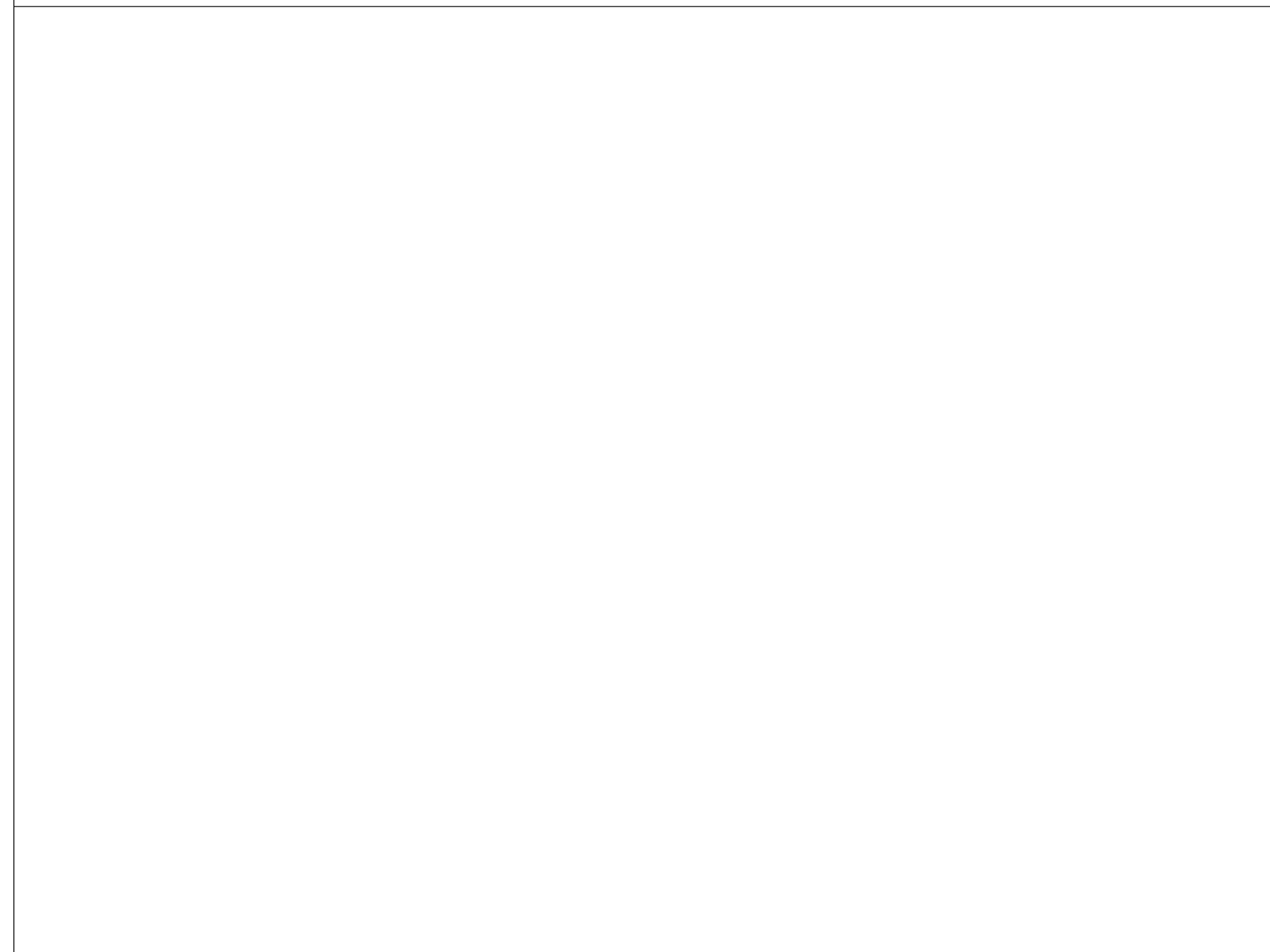
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1 #2 @ 8" O.C.   
 2 2" COVER @ TREADS & RISERS, TYP   
 3 1/2" CHAMFER   
 4 (2) #4 EACH TREAD (HOOK INTO SIDEWALLS)   
 5 CONC. STEP (SUGGEST 4000 psi CONC. FOR DURABILITY)   
 6 #4 @ 8" O.C.   
 7 SLAB UNDERLAYMENT DESIGNED BY OTHERS

204 CONCRETE STEPS ON GRADE   
 1" = 1'-0" STD027

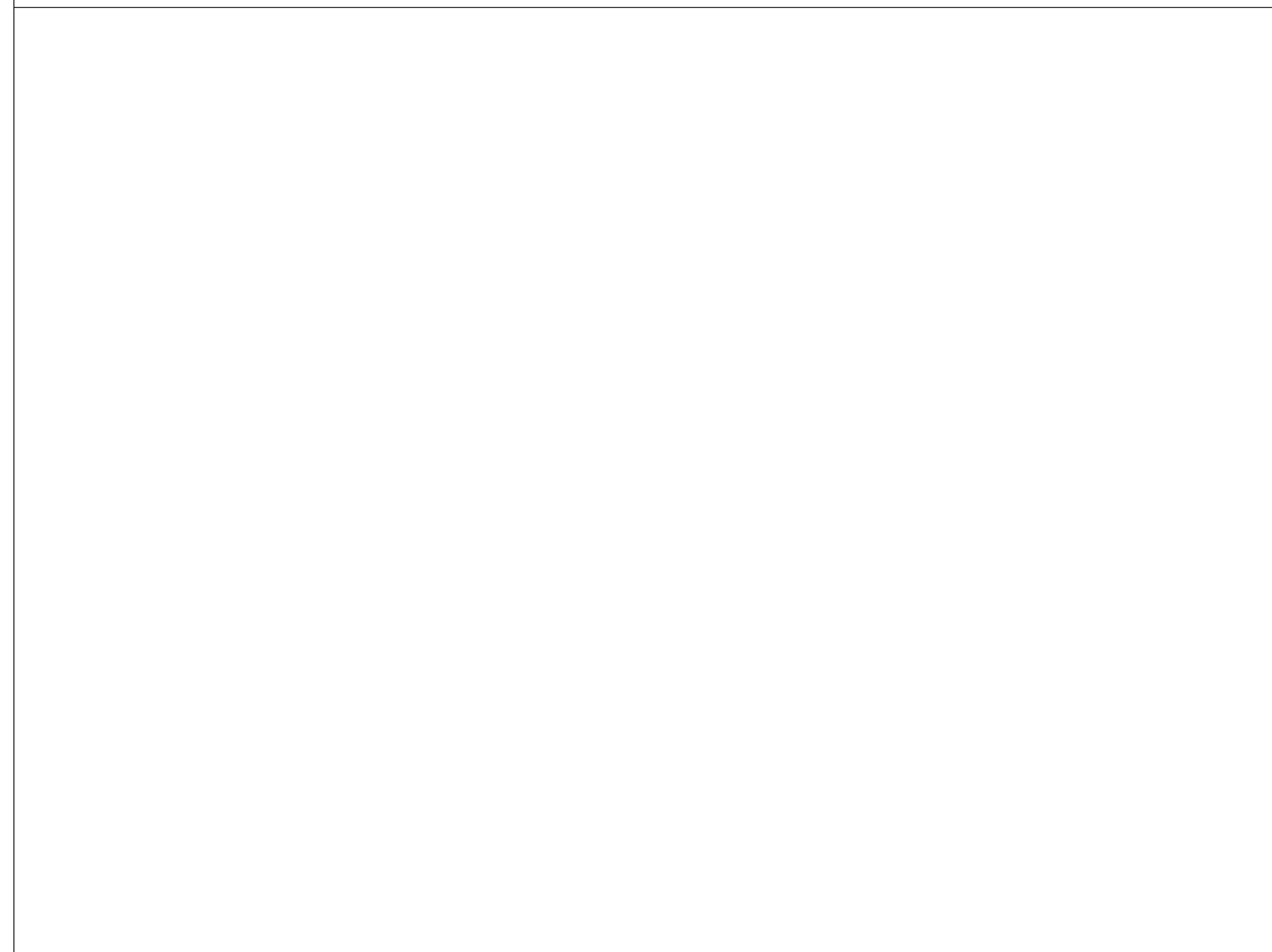


1 2" (MIN) CONCRETE COVER AROUND EMBEDMENTS & REBAR   
 2 POST PER PLAN   
 3 COLUMN BASE PER PLAN   
 4 FOOTING SIZE & REINFORCEMENT PER PLAN   
 5 REINFORCEMENT PER PLAN   
 6 CONCRETE PEDESTAL PER ARCH'L W/ (2) #4 VERTICAL DOWELS INTO FOOTING

NOTE: MINIMUM PEDESTAL SIZE SHALL BE 12"Ø OR 10" SQUARE, U.N.O. PROVIDE 2" (MIN) CONCRETE COVER AROUND COLUMN BASE

NOTE: FOOTINGS TO BE PLACED IN UNDISTURBED NATIVE SOIL

203 3/4" = 1'-0" STD011

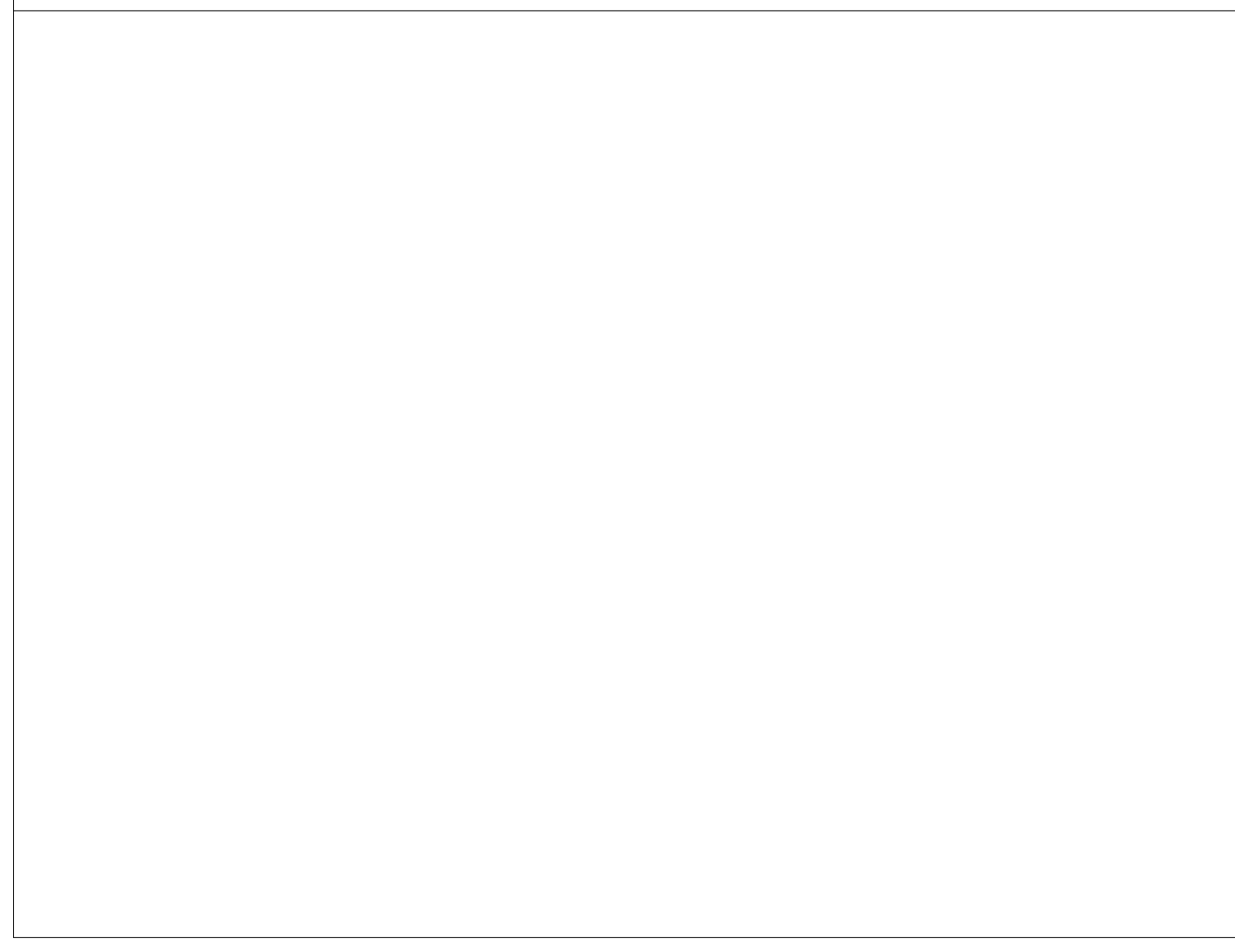


1 RAFTER PER PLAN   
 2 BEAM PER PLAN   
 3 ROOF SHTG   
 4 ROLLED 2x BLKG W/ 0.148" DIA. NAILS @ 6" O.C. INTO BEAM   
 5 EDGE NAILING   
 6 HGA10KT CLIP SIDE OF EACH RAFTER TO BEAM

302 RAFTER O/ PURLIN   
 1" = 1'-0" 302

1 SLAB PER PLAN   
 2 SLAB REINF. PER PLAN (WHERE OCCURS)   
 3 UNDERLAYMENT & MOISTURE BARRIER DESIGNED BY OTHERS   
 4 SAW-CUT JOINT, DEPTH = 1/4" OF SLAB THICKNESS   
 5 TOOLED EDGE PER ARCH'L   
 6 1/2"Ø x 2'-0" LONG SMOOTH DOWEL @ 24" O.C. (WRAP OR GREASE ONE END)

202 TYPICAL FLOOR SLAB JOINT   
 1" = 1'-0" STD013



1 RAFTER PER PLAN   
 2 BEAM PER PLAN   
 3 ROOF SHTG   
 4 FULL DEPTH 2x BLKG   
 5 A35 CLIP @ 16" O.C.   
 6 ST22 STRAP OVER RIDGE AT EACH SET OF RAFTERS (STRAP MAY BE INSTALLED OVER SHTG)   
 7 EDGE NAILING

301 RAFTERS O/ RIDGE BEAM   
 1" = 1'-0" 303

BEND RADIUS :   
 R = 3 x DIA. FOR #3 THRU #8   
 R = 4 x DIA. FOR #9 THRU #11   
 R = 5 x DIA. FOR #14 THRU #18

| BAR SIZE | SPLICE LENGTH |
|----------|---------------|
| #3       | 12"           |
| #4       | 18"           |
| #5       | 30"           |
| #6       | 36"           |
| #7       | 42"           |
| #8       | 56"           |
| #9       | 70"           |

201 TYPICAL HOOKS & SPLICE (CONCRETE)   
 1" = 1'-0" STD008

202 TYPICAL FLOOR SLAB JOINT   
 1" = 1'-0" STD013

PRELIMINARY:  
NOT FOR CONSTRUCTION

ISSUES AND REVISIONS

| No. | Date | Issue & Revision | By       | Check   |
|-----|------|------------------|----------|---------|
|     |      |                  | Designer | Checker |
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 PUBLISH DATE: 2/27/2018 9:51:37 AM

ACCESSIBILITY RETROFIT FOR:  
**FRANCISCAN LAKESIDE LODGE**

6944 N. LAKE BLVD.  
 LOT xx, xx  
 PLACER COUNTY  
 TAHOE VISTA, CALIFORNIA  
 A.P.N. 117-080-065

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DESCRIPTION

# DETAILS

SCALE As indicated  
 PROJECT NO. B17-127

# S3.1