## SECTION 1 - GENERAL NOTES

- DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STRUCTURAL ENGINEERS WET STAMP IS AFFIXED TO DRAWINGS.
- ANY DISCREPANCIES IN THE DRAWINGS, NOTES AND SPECIFICATIONS SHALL BE REPORTED TO ENGINEER/ARCHITECT FOR CLARIFICATION. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS, ELEVATIONS, AND TOP OF CONC. PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL BRACING AND SHORING DURING CONSTRUCTION.
- CONTRACTOR TO SUBMIT A REQUEST TO ENGINEER & ARCHITECT FOR ANY SUBSTITUTION OF MATERIALS OR PRODUCTS SPECIFIED ON THE
- STRUCTURAL DESIGN PER 2012 INTERNATIONAL BUILDING CODE (IBC).
- ALL CONSTRUCTION TO CONFORM TO 2012 IBC. THE FOLLOWING NOTES APPLY UNLESS SHOWN OTHERWISE. THESE DRAWINGS HAVE BEEN PREPARED SOLELY FOR THE USE IN THE CONSTRUCTION OF A PROPOSED BUILDING TO WHICH THESE NOTES ARE ATTACHED. THE DRAWINGS SHALL NOT BE USED IN WHOLE OR IN PART, FOR FABRICATION OR CONSTRUCTION AT ANY
- OTHER LOCATION WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. THE OWNER SHALL NOTIFY ENGINEER IF ANY UNIQUE SOILS CONDITIONS EXIST ON SITE WHICH MAY BE DETECTED DURING
  - CONSTRUCTION. THESE INCLUDE BUT SHALL NOT BE LIMITED TO: 1. SATURATED SOIL AT FOOTING SUBGRADE
    - 2. GROUNDWATER
    - 3. UNDOCUMENTED FILL 4. CLAY SOIL WITH SWELL OR COLLAPSE POTENTIAL
  - 5. FILL BEING PLACED BELOW FOOTINGS EPIC ENGINEERING CANNOT BE HELD RESPONSIBLE FOR SOIL CONDITIONS THAT ARE NOT BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO WORK PROCEEDING. IT IS THE RESPONSIBILITY OF THE OWNER TO HIRE A GEO-TECHNICAL ENGINEER IF NEEDED. THE DESIGN OF THE FOUNDATION SYSTEM SHALL BE BASED ON THE ALLOWABLE SOIL BEARING PRESSURES
  - ALLOWED IN TABLE 1804.2 OF THE 2012 IBC THE CONTRACTOR SHALL VISUALLY INSPECT THE SITE PRIOR TO WORK PROCEEDING AND SHALL NOTIFY ENGINEER IF ANY UNIQUE SOIL CONDITIONS EXIST THAT COULD AFFECT THE PERFORMANCE OF THE FOUNDATION SYSTEM PRIOR TO ANY WORK PROCEEDING.

## SECTION 2 - CONCRETE

STRUCTURAL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI. CONCRETE FOR SLABS ON GRADE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AND A MAXIMUM WATER/CEMENT RATIO OF 0.5 MINIMUM CEMENT CONTENT SHALL BE 5 SACK/CU. YD. MAXIMUM AGGREGATE SHALL BE 3/4", INCLUDE 4% TO 6% AIR ENTRAINMENT WITH SLUMP NOT TO EXCEED 4".

# CAST IN PLACE CONCRETE

- CONCRETE FORM WORK TO BE OF ADEQUATE SIZE AND STRENGTH PROPERLY BRACED TO PREVENT SAGGING OR BULGING. PROTECT ALL CONCRETE FROM FREEZING TEMPERATURES. REFER TO DRAWING FOR DIMENSIONS OF CONCRETE MEMBERS AND SIZE AND LOCATION OF ALL REINFORCEMENT.
- FOOTINGS: NO FOOTING SHALL BE PLACED ON DISTURBED (OR FROZEN) SOIL (IF DISTURBED, COMPACT SOIL IN 6" LIFTS TO 95% OR MAXIMUM DRY DENSITY PER ASTM D1557). FOOTINGS SHALL BE STEPPED DOWN ONE (1) VERTICALLY TO ONE AND ONE HALF (1 1/2) HORIZONTALLY, UNLESS BULK HEADED & STOPPED VERTICALLY.
- FOUNDATION WALLS: REINFORCE PER DRAWINGS. DO NOT BACKFILL WALLS UNTIL MAIN FLOOR IS FRAMED, THE SUBFLOOR INSTALLED, SHEATHED AND CONCRETE HAS CURED A MINIMUM OF 7 DAYS. SEE SPECIAL PROVISIONS FOR COLD WEATHER CONCRETE BELOW. USE HAND OPERATED COMPACTION EQUIPMENT ADJACENT TO NEWLY
- CONCRETE PADS AND THICKENED SLABS REFER TO DRAWINGS AS TO SIZE AND REINFORCEMENT.

PLACED CONCRETE BASEMENT WALLS.

- CONCRETE SLABS: REFER TO DRAWINGS AS TO SIZE AND REINFORCEMENT.
- FIREPLACE FOOTINGS AND CMU WALLS: REFER TO DRAWINGS FOR SIZE AND REINFORCEMENT.
- REINFORCEMENT BARS: REINFORCEMENT SHALL BE PER ASTM A615, GRADE 60 FOR #5 BARS AND LARGER, GRADE 40 FOR #3 AND #4 BARS, ALL REBAR LAPPED 30 TIMES DIAMETER, REBAR AT FOOTINGS TO HAVE 3" CLEAR COVER OF CONCRETE (U.N.O. ON DRAWINGS), PROVIDE CORNER BARS WITH 18" LEGS AT THE CORNERS OF ALL WALLS AND FOOTINGS, SIZE AND PLACEMENT TO MATCH HORIZONTAL REINFORCEMENT.
- COLD-WEATHER CONCRETING: CONTRACTOR SHALL SUBMIT TO ENGINEER FOR REVIEW THE PROPOSED MEASURES TO SATISFY PLACEMENT & CURING OF CONCRETE DURING COLD WEATHER, FOR OPTIMUM STRENGTH GAIN. IT IS RECOMMENDED TO CONSIDER A BLEND OF TYPE I AND TYPE II CEMENT WITH A 6 BAG MIX, LOW SAND TO AGGREGATE RATIO BATCHED TO A 1" SLUMP WITH SUPER PLASTICIZER ADDED FOR 4"-5" SLUMP WORKABILITY, 1%-2% NON-CHLORINE ACCELERATOR & CONCRETE MAINTAINED AT 50° MINIMUM FOR 7 DAYS. AVOID MORE
- TERMINATED. ANCHOR BOLTS AND HOLDOWN: ANCHOR BOLTS TO BE ASTM A307, 5/8"Øx10" EMBEDDED IN FOUNDATION WALLS @ 32" O.C. (MAX) U.N.O. (SEE FOUNDATION PLAN FOR REQUIREMENTS AT SHEAR WALLS). BOLTS TO BE WITHIN 1'-0" OF SILL PLATES ENDS (COORDINATE WITH GENERAL CONTRACTOR).

THAN 25° TEMPERATURE CHANGE PER DAY WHEN HEATING IS

MINIMUM OF TWO ANCHOR BOLTS PER SILL PLATE.

BEFORE STARTING CONSTRUCTION.

- 1. ALL POSTS SUPPORTED BY ISOLATED FOOTINGS TO HAVE POST ANCHORS UNLESS SPACED IN STUD WALLS. REFER TO DRAWINGS FOR HOLDOWN REQUIREMENTS. INSTALL REQUIRED EMBEDDED ITEMS PER MANUFACTURER'S
- CATALOG TO ENGAGE HOLDOWN CONSTRUCTION AND CRACK CONTROL JOINTS: ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST, CHIPS AND OTHER FOREIGN MATERIAL PRIOR TO PLACING ADJACENT CONCRETE. CRACK CONTROL JOINTS IN SLABS SHALL HAVE A MAXIMUM SPACING OF 15'-0" IN BOTH DIRECTIONS. THE CONTRACTOR SHALL SUBMIT THE DETAILS AND PROPOSED LOCATIONS OF CONSTRUCTION JOINTS AND CRACK CONTROL JOINTS FOR REVIEW
- VAPOR BARRIER: VAPOR BARRIER TO BE 6 MIL POLYETHYLENE SHEET PLACED ON UNDISTURBED SOIL, VAPOR BARRIER UNDER SLAB ON GRADE. PLACED ON COMPACTED GRAVEL WITH 3/4" TO 1-1/2" OF DAMP SAND BETWEEN POLYETHYLENE VAPOR BARRIER AND CONCRETE.

EMBEDDED ITEMS FOR HD TYPE HOLDOWN TO BE ASTM A307 HEX HEADED BOLT IN THE DIAMETER AS SPECIFIED BY THE MANUFACTURER FOR THE HD. ALL BOLTS TO HAVE 3" MIN. CONCRETE SIDE COVER EMBEDMENT DEPTHS ARE 15" FOR BOLTS UP TO AND INCLUDING 3/4" DIA., 24" DEPTH FOR BOLTS OVER 3/4" U.N.O. TYPICAL REINFORCEMENT TO

PASS UNINTERRUPTED ALONGSIDE HOLD DOWN AS APPLICABLE. COUPLER NUTS MAY BE USED TO EXTEND THE HOLD DOWN ANCHOR THROUGH THE FLOOR PLATE TO THE SHEAR WALL CHORD. **EPOXY ANCHORS:** 

ANCHORING ADHESIVE SHALL BE A TWO-COMPONENT HIGH-SOLIDS, EPOXY SYSTEM SUPPLIED IN MANUFACTURER'S STANDARD CARTRIDGE AND DISPENSED THROUGH A STATIC-MIXING NOZZLE SUPPLIED BY THE MANUFACTURER. THE ADHESIVE ANCHOR SHALL HAVE BEEN TESTED AND QUALIFIED FOR PERFORMANCE IN UN-CRACKED CONCRETE PER ICC-ES AC308. ADHESIVE SHALL BE SET-XP EPOXY-TIE ADHESIVE FROM SIMPSON STRONG-TIE, PLEASANTON, CA. ANCHORS SHALL BE INSTALLED PER SIMPSON STRONG-TIE INSTRUCTIONS FOR SET-XP

NOTE: THE USE OF EPOXY ANCHORS REQUIRES SPECIAL INSPECTION OF INSTALLATION PER CURRENT ICO REPORT, CONTRACTOR TO PROVIDE SPECIAL INSPECTION REPORTS TO ENGINEER, BUILDING OFFICIAL & ARCHITECT.

### SECTION 3 - FRAMING LUMBER

### I. SAWN STRUCTURAL LUMBER

BEARING ON WOOD.

- SAWN LUMBER SHALL BE DOUGLAS FIR-LARCH (DF-L) NO.2 OR BETTER FOR ALL 2 INCH AND 4 INCH NOMINAL LUMBER AND DF-L NO.2 OR BETTER FOR 6 INCH NOMINAL AND LARGER STRUCTURAL MEMBERS (U.N.O.). WOOD BEARING ON OR INSTALLED WITHIN 1" OF MASONRY OR CONCRETE SHALL BE PRESSURE TREATED WITH AN APPROVED PRESERVATIVE. PROVIDE MILD STEEL PLATE WASHERS AT ALL BOLT HEADS AND NUTS
- ALL FRAMING DETAILS SHALL BE IN ACCORDANCE WITH CHAPTER 23 OF THE 2012 IBC, UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL FRAMING NAILING SHALL CONFORM TO TABLE 2304.9.1 OF THE IBC UNLESS OTHERWISE SHOWN. PROVIDE STEEL STRAPS AT PIPES IN STUD WALLS AS REQUIRED BY IBC CHAPTER 23. PLUMBING AND ELECTRICAL RUNS IN STUD WALLS SHALL CONFORM TO CHAPTER 23. BOLTS SHALL BE STANDARD MACHINE BOLTS (A307). ALL NAILS SHALL BE COMMON WIRE OR GALVANIZED BOX NAILS. IF PNEUMATIC NAILERS ARE TO BE USED, CONTRACTOR MUST SUBMIT A SCHEDULE OF NAILS DESIRED AS SUBSTITUTION TO THE ARCHITECT OR ENGINEER FOR REVIEW. A CHANGE IN THE NUMBER OF NAILS OR A CLOSER NAIL SPACING MAY BE REQUIRED
- METAL HANGERS AND CONNECTORS SHALL BE FULLY NAILED OR BOLTED UNLESS OTHERWISE NOTED ON THE DRAWINGS. METAL HANGERS OR CONNECTORS SHOWN ON THE DRAWINGS SHALL BE MANUFACTURED BY SIMPSON COMPANY. METAL HANGERS OR CONNECTORS BY OTHER MANUFACTURES MAY BE CONSIDERED WHERE LOAD CAPACITY AND DIMENSIONS ARE EQUAL OR BETTER ALL SUBSTITUTIONS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- PROVIDE SOLID BLOCKING BELOW ALL BEARING WALLS. PROVIDE SOLID VERTICAL BLOCKING IN FLOOR SPACE TO MATCH STUD BUNDLE OR SOLID COLUMN ABOVE AND BELOW VERTICAL BLOCKING AT WOOD I-JOISTS SHALL BE 1/16" LONGER THAN JOIST IS DEEP. MINIMUM POST TO BE TWO 2x STUDS BEARING AT EACH END OF HEADER U.N.O. FOR BEAMS FRAMING PERPENDICULAR TO BEARING WALLS PROVIDE FULL WIDTH BEAM POCKET WITH FILLER AS REQUIRED AND KING STUD BOTH SIDES. STITCH STUD BUNDLES TOGETHER WITH 16d COMMON @ 18" O.C. MAXIMUM (U.N.O.) WHERE FLOOR BEAMS ARE FRAMED FLUSH WITHIN FLOOR AND TOP FLANGE HANGERS ARE SPECIFIED, BEAMS ARE TO BE BLOCKED UP TO JOIST HEIGHT WITH FULL WIDTH DF-L SPACER AS REQUIRED.
- FIRE BLOCK STUD SPACED AT SOFFITS, FLOOR AND CEILING JOIST LINES, AT 10' VERTICALLY AND HORIZONTALLY, AND AT OPENINGS BETWEEN ATTIC SPACES FOR FACTORY BUILT CHIMNEYS, AND AT OTHER LOCATIONS NOT SPECIFICALLY MENTIONED WHICH COULD AFFORD PASSAGE FOR FLAMES.
- ALL FASTENERS INSTALLED IN PRESEVATIVE TREATED WOOD SHALL MEET THE REQUIREMENTS OF IBC
- II. STRUCTURAL GLUED-LAMINATED TIMBER ALL GLUED-LAMINATED TIMBER SHALL BE COMBINATION 24FAV4 FOR SIMPLY SUPPORTED BEAMS, COMBINATION 24F-V8 FOR BEAMS CONTINUOUS OVER SUPPORTS, AND COMBINATION L2 FOR COLUMNS (U.N.O.) FABRICATION TO BE IN ACCORDANCE WITH AITC 117. PROVIDE WET-USE ADHESIVES. MAXIMUM MOISTURE CONTENT SHALL BE 15% PROVIDE MILD STEEL PLATE WASHERS AT ALL BOLT HEADS AND NUTS BEARING ON WOOD. WOOD BEARING ON OR WITHIN 1" OF MASONRY OR CONCRETE SHALL BE TREATED WITH AN APPROVED PRESERVATIVE. SEAL END GRAIN OF ALL EXTERIOR EXPOSED BEAMS INCLUDING NON-LOAD BEARING ARCHITECTURAL BEAMS.
- MANUFACTURED JOIST MANUFACTURED JOISTS SIZE AND SPACING HAVE BEEN DETERMINED PER THE MANUFACTURES STANDARDS. SUBSTITUTION OF PRODUCTS BY OTHER MANUFACTURERS REQUIRES APPROVAL OF ENGINEER OF RECORD. JOIST SHALL BE ERECTED. INSTALLED. AND BRACED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
  - LAMINATED VENEER LUMBER (LVL) PRODUCTS SPECIFIED HEREIN AS LVL AND PSL SHALL CONFORM TO THE PERFORMANCE CRITERIA OF LVL AND PSL PRODUCTS AS MANUFACTURED BY TRUSS JOIST AS MICRO-LAM AND PARALLAM. SUBSTITUTES ARE ACCEPTABLE PROVIDED THEY HAVE THE SAME STRUCTURAL VALUES. ANY SUBSTITUTIONS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW.
  - WOOD SHEATHING ALL WOOD SHEATHING SHALL BE APA RATED EXPOSURE 1 PLYWOOD OR OSB WITH THICKNESS, VENEER GRADES AND SPAN RATING AS NOTED HEREIN OR ON DRAWINGS
    - ROOF SHEATHING 5/8" WITH MINIMUM (40/20) SPAN RATING.

WITH 1/8" GAP AT BUTT ENDS.

- WARMBOARD "S" EXTERIOR WALL AND SHEAR WALL SHEATHING 7/16" WITH MINIMUM (24") SPAN RATING.
- ROOF AND FLOOR SHEATHING TO BE LAID UP WITH FACE GRAIN PERPENDICULAR TO SUPPORTS AND END JOINTS STAGGERED 4'-0" O.C. INSTALL ROOF SHEATHING WITH 1/8" SPACE AT ALL PANEL EDGES. NAIL ROOF SHEATHING WITH 8d @ 6" O.C. AT SUPPORTED PANEL AND 12" O.C. AT INTERMEDIATE FRAMING, FLOOR SHEATHING WITH 10d @ 6" O.C. AT SUPPORTED PANEL EDGES AND 10" O.C. FIELD, U.N.O. HOLES ARE NOT PERMITTED IN DIAPHRAGMS UNLESS REVIEWED BY ENGINEER. NAIL EXTERIOR WALL SHEATHING WITH 8d @ 6" O.C. EDGES AND 12" O.C. FIELD U.N.O. IN SHEAR WALL SCHEDULE. OFFSET VERTICAL JOINTS 4'-0" O.C. INSTALL
- WOOD SHEAR WALLS NO.14 GAGE STAPLES WITH MINIMUM 7/16 OD CROWN AND 1-3/8" LENGTH MAY BE USED ONE FOR ONE IN LIEU OF 8d NAILS. WHERE SUBSTITUTING FOR 10d NAILS USE 3 STAPLES FOR EACH 2 NAILS.
- WHERE PLYWOOD PANELS ARE APPLIED TO BOTH SIDES OF SHEAR WALL, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING MEMBERS SHALL BE 3" (NOMINAL) WIDE AND NAILS ON EACH SIDE SHALL BE
- ALLOWABLE SHEAR VALUES IN SHEAR WALL TABLE ARE FOR DOUGLAS FIR FRAMING MEMBERS (GROUP II). NO SUBSTITUTION OF LESSER GROUPS WILL BE ALLOWED. FASTENERS EXPOSED TO WEATHER SHALL BE ZINC COATED BY HOT DIP GALVANIZING. MECHANICALLY DEPOSITED, OR ELECTRO-DEPOSITED.

## SECTION 4 - STRUCTURAL STEEL AND MISCELLANEOUS METALS

- ALL STRUCTURAL STEEL SHALL COMPLY WITH THE PREFERRED ASTM MATERIAL SPECIFICATION FOR VARIOUS SHAPES PER TABLES 2-3 AND 2-4 OF AISC'S STEEL CONSTRUCTION MANUAL (THIRTEENTH EDITION)
- ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", & AISC 341 FOR FABRICATION OF LATERAL ELEMENTS. SHOP DRAWINGS SHALL BE SUBMITTED FOR THE OWNER'S REPRESENTATIVES REVIEW BEFORE COMMENCING FABRICATION. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS. ALL WELDING SHALL BE DONE BY "STRUCTURAL WELDING CODE", AWS D1.1 ALL FIELD WELDING TO BE ACCOMPLISHED BY AWS CERTIFIED WELDERS.
- ALL STEEL ANCHORS, TIES AND OTHER MEMBERS TO BE EMBEDDED IN CONCRETE OR MASONRY SHALL BE LEFT UNPAINTED. ALL MACHINE BOLTS SHALL BE ASTM A307 U.N.O. ( SEE CONNECTION SCHEDULE FOR A325 BOLTS) AND SHALL BE PROVIDED WITH LOCK WASHERS UNDER NUTS OR SELF LOCKING NUTS. ALL NUTS, BOLTS, WASHERS AND MISC. STEEL EXPOSED TO WEATHER SHALL
- WELDED HEADED STUDS (WHS)+ TYPICAL WELD OF WHS TO STEEL SHALL BE FILLET WELD ALL AROUND SIZE EQUAL TO ONE-HALF THE DIAMETER OF THE STUD.

#### SECTION 8 - SUBSTITUTIONS

BY THE CONTRACTOR. THE ENGINEER WILL REVIEW THE REQUESTED ALTERNATIVE & RESPOND IN WRITING. ADDITIONAL SUPERVISION OR SPECIAL INSPECTION MAY BR REQUIRED FOR THE

THE ENGINEER HAS NOT BEEN RETAINED NOR COMPENSATED TO PROVIDE DESIGN AND/OR CONSTRUCTION REVIEW SERVICES RELATED TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR THE CONTRACTOR TO PERFORM HIS WORK. THE UNDERTAKING OF PERIODIC SITE VISITS BY THE ENGINEER SHALL FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS, SUPPLIERS OR THEIR EMPLOYEES, OR FOR ACCESS, VISIT, USE WORK, OR OCCUPANCY BY ANY PERSON.

COARSE AGGREGATE, IF USED, SHALL NOT EXCEED ¾ INCH

WHEN NO.5 OR SMALLER BARS ARE USED, THERE SHALL BE A MINIMUM CLEARANCE BETWEEN PARALLEL REINFORCEMENT BARS OF 2 ½ INCHES. WHEN BARS LARGER THAN NO.5 ARE PERMITTED, THERE SHALL BE A MINIMUM CLEARANCE BETWEEN PARALLEL BARS EQUAL TO SIX DIAMETERS OF THE BARS USED. WHEN TWO CURTAINS OF STEEL ARE PROVIDED. THE CURTAIN NEARER THE NOZZLE SHALL HAVE MINIMUM SPACING EQUAL TO 12 BAR DIAMETERS AND THE REMAINING CURTAINS SHALL HAVE A MINIMUM SPACING OF SIX BAR DIAMETERS B. LAP SPLICES OF REINFORCING BARS SHALL UTILIZE THE NONCONTACT LAP SPLICE METHOD

WITH A MINIMUM CLEARANCE OF 2 INCHES BETWEEN BARS. THE USE OF CONTACT LAP SPLICES ARE NECESSARY FOR SUPPORT OF THE REINFORCING IS PERMITTED WHEN APPROVED BY THE BUILDING OFFICIAL, BASED ON SATISFACTORY PRECONSTRUCTION TESTS THAT SHOW THAT ADEQUATE ENCASEMENT OF THE BARS WILL BE ACHIEVED, AND PROVIDED THAT THE SPLICE IS ORIENTED SO THAT A PLANE THROUGH THE CENTER OF THE SPLICED BARS IS PERPENDICULAR TO THE SURFACE OF THE SHOTCRETE. III. PRECONSTRUCTION TESTS:

WHEN REQUIRED BY THE BUILDING OFFICIAL, A TEST PANEL SHALL BE SHOT, CURED, CORED OR SAWN, EXAMINED AND TESTED PRIOR TO COMMENCEMENT OF THE PROJECT. THE SAMPLE PANEL SHALL BE REPRESENTATIVE OF THE PROJECT AND SIMULATE JOB CONDITIONS AS CLOSELY AS POSSIBLE. THE PANEL THICKNESS AND REINFORCING SHALL REPRODUCE THE THICKEST AND MOST CONGESTED AREA SPECIFIED IN THE STRUCTURAL DESIGN. IT SHALL BE SHOT AT THE SAME ANGLE, USING THE SAME NOZZLEMAN AND WITH THE SAME CONCRETE MIX DESIGN THAT WILL BE USED ON THE PROJECT. THE EQUIPMENT USED IN PRECONSTRUCTION TESTING SHALL BE THE SAME EQUIPMENT USED IN THE WORK REQUIRING SUCH TESTING, UNLESS SUBSTITUTE EQUIPMENT IS APPROVED BY THE BUILDING OFFICIAL.

ANY REBOUND OR ACCUMULATED LOOSE AGGREGATE SHALL BE REMOVED FROM THE SURFACES TO BE COVERED PRIOR TO PLACING THE INITIAL OR ANY SUCCEEDING LAYERS OF SHOTCRETE. REBOUND SHALL NOT BE USED AS AGGREGATE.

EXCEPT WHERE PERMITTED IN SECTION 1910 OF 2012 IBC, UNFINISHED WORK SHALL NOT BE ALLOWED TO STAND FOR MORE THAN 30 MINUTES UNLESS EDGES ARE SLOPED TO A THIN EDGE. FOR STRUCTURAL ELEMENTS THAT WILL BE UNDER COMPRESSION AND FOR CONSTRUCTION JOINTS SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS, SQUARE JOINTS ARE PERMITTED. BEFORE PLACING ADDITIONAL MATERIAL ADJACENT TO PREVIOUSLY APPLIED WORK, SLOPING AND SQUARE EDGES SHALL BE CLEANED AND WETTED.

IN-PLACE SHOTCRETE THAT EXHIBITS SAGS, SLOUGHS, SEGREGATION, HONEYCOMBING, SAND POCKETS OR OTHER OBVIOUS DEFECTS SHALL BE REMOVED AND REPLACED. SHOTCRETE ABOVE SAGS AND SLOUGHS SHALL BE REMOVED AND WHILE STILL PLASTIC.

SHOTCRETE SHALL BE KEPT CONTINUOUSLY MOIST FOR 24 HOURS AFTER SHOTCRETING IS COMPLETE OR SHALL BE SEALED WITH AN APPROVED CURING COMPOUND.

FINAL CURING SHALL CONTINUE FOR SEVEN DAYS AFTER SHOTCRETING, OR FOR THREE DAYS IF HIGH EARLY STRENGTH CEMENT IS USED, OR UNTIL THE SPECIFIED STRENGTH IS OBTAINED. FINAL CURING SHALL CONSIST OF THE INITIAL CURING PROCESS OR THE SHOTCRETE SHALL BE COVERED WITH AN APPROVED MOISTURE RETAINING COVER.

NATURAL CURING SHALL NOT BE USED IN LIEU OF THAT SPECIFIED IN SECTION 1910 OF THE 2012 IBC JNLESS THE RELATIVE HUMIDITY REMAINS AT OR ABOVE 85 PERCENT. AND IS AUTHORIZED BY THE REGISTERED DESIGN PROFESSIONAL AND APPROVED BY THE BUILDING OFFICIAL.

SUBSTITUTION FOR ANY SPECIFIED STRUCTURAL COMPONENT MUST BE REQUESTED IN WRITING REQUESTED SUBSTITUTION.

## SECTION 9 - JOB SAFETY

NOT BE CONSTRUED AS SUPERVISION OF ACTUAL CONSTRUCTION NOR MAKE HIM RESPONSIBLE

AGGREGATE

REINFORCEMENT:

2012 IBC/IRC Governing Code Occupancy Category Importance Factor: Site Class 5000 psf Soil Bearing Pressure 0.274 0.550 0.183 Seismic Design Category D 4.5/6.5 Basic Wind Speed 115 mph Exposure Ground Snow Load 281 psf Roof Snow Load Reduced Roof Snow Load 175 psf

Roof Dead Load

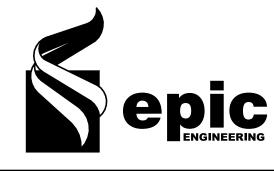
Floor Live Load

Floor Dead Load

12 psf

CONSTRUCTION NOTES

**JUNE 2015** 



DESCRIPTION

DESIGNER: PW REVIEWED: AJH

PROJECT#

14SM2068 **SCALES** 1" = 1'-0"

**PROJECT NAME:** 

**FALCONE RESIDENCE** 

PROJECT LOCATION:

7947 EAST HEARTWOOD **DRIVE** WEBER COUNTY, UT

SHEET TITLE:

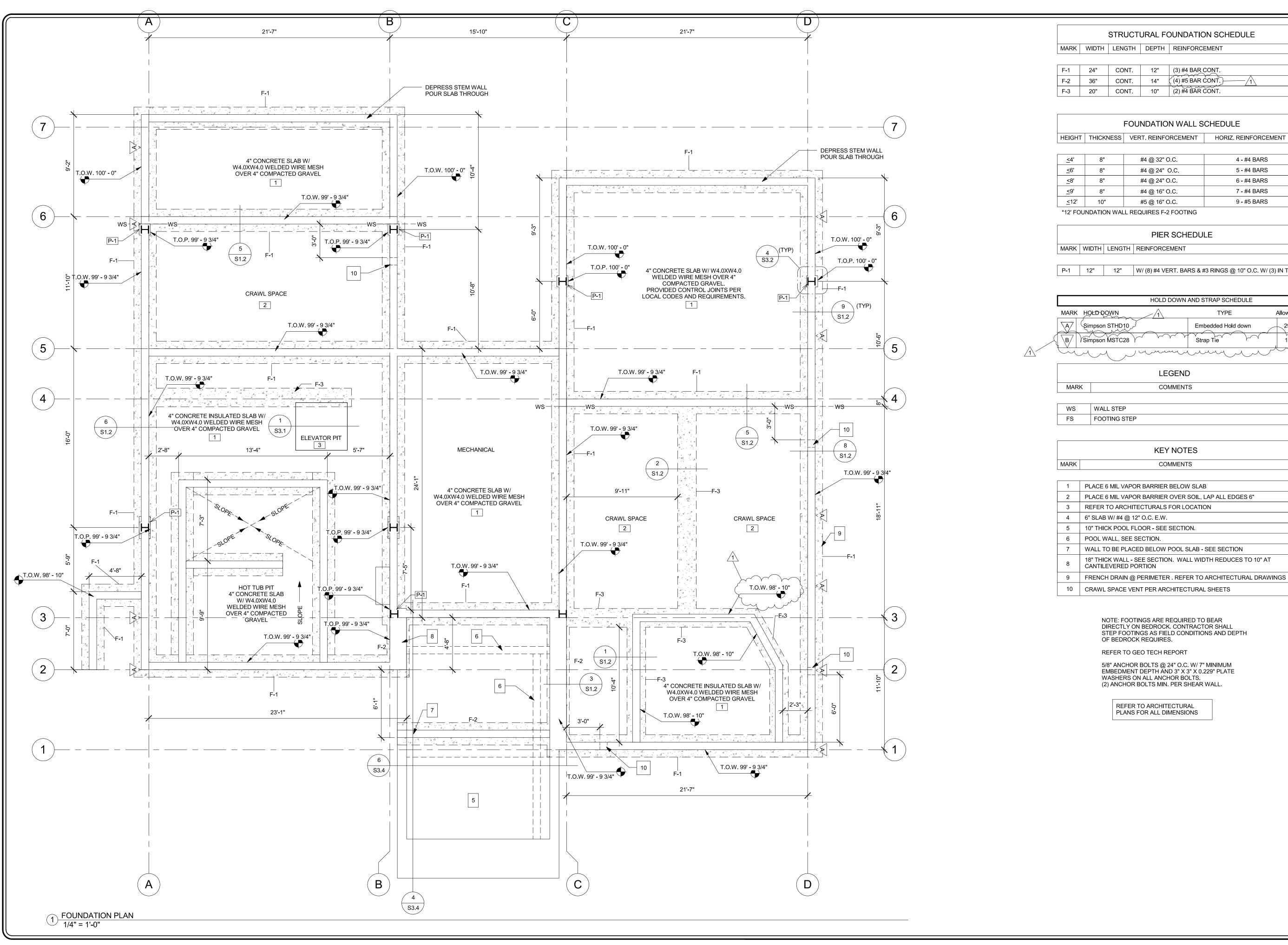
PLAN SET:

**GENERAL NOTES** 

PERMIT

**S0.1** 

**SHEET** 



## STRUCTURAL FOUNDATION SCHEDULE

CONT. 12" (3) #4 BAR CONT. 14" (4) #5 BAR CONT.

# FOUNDATION WALL SCHEDULE

| <u>&lt;</u> 4' | 8"  | #4 @ 32" O.C. | 4 - #4 BARS |
|----------------|-----|---------------|-------------|
| <u>&lt;</u> 6' | 8"  | #4 @ 24" O.C. | 5 - #4 BARS |
| <u>&lt;</u> 8' | 8"  | #4 @ 24" O.C. | 6 - #4 BARS |
| <u>&lt;</u> 9' | 8"  | #4 @ 16" O.C. | 7 - #4 BARS |
| <12'           | 10" | #5 @ 16" O C  | 0 - #5 BARS |

## PIER SCHEDULE

P-1 12" 12" | W/ (8) #4 VERT. BARS & #3 RINGS @ 10" O.C. W/ (3) IN TOP 5"

|           | HOLD DOWN AND STRAP SCHEDULE             |                    |             |  |  |  |  |  |  |
|-----------|--|--------------------|-------------|--|--|--|--|--|--|
| •         | MARK HOŁD DOWN                           | TYPE               | Allow. LOAD |  |  |  |  |  |  |
|           | A Simpson STHD10                         | Embedded Hold down | 2940 lbs    |  |  |  |  |  |  |
| $\langle$ | B Simpson MSTC28                         | Strap Tie          | 1155 lbs    |  |  |  |  |  |  |
|           | Li L | Comment of the     |             |  |  |  |  |  |  |

LEGEND COMMENTS

**KEY NOTES** 

| 1 | PLACE 6 MIL VAPOR BARRIER BELOW SLAB  |
|---|---|
| 2 | PLACE 6 MIL VAPOR BARRIER OVER SOIL, LAP ALL EDGES 6"                           |
| 3 | REFER TO ARCHITECTURALS FOR LOCATION  |
| 4 | 6" SLAB W/ #4 @ 12" O.C. E.W.   |
| 5 | 10" THICK POOL FLOOR - SEE SECTION.   |
| 6 | POOL WALL, SEE SECTION.   |
| 7 | WALL TO BE PLACED BELOW POOL SLAB - SEE SECTION                                 |
| 8 | 18" THICK WALL - SEE SECTION. WALL WIDTH REDUCES TO 10" AT CANTILEVERED PORTION |
| 9 | FRENCH DRAIN @ PERIMETER . REFER TO ARCHITECTURAL DRAWINGS                      |

NOTE: FOOTINGS ARE REQUIRED TO BEAR DIRECTLY ON BEDROCK. CONTRACTOR SHALL STEP FOOTINGS AS FIELD CONDITIONS AND DEPTH

5/8" ANCHOR BOLTS @ 24" O.C. W/ 7" MINIMUM EMBEDMENT DEPTH AND 3" X 3" X 0.229" PLATE WASHERS ON ALL ANCHOR BOLTS. (2) ANCHOR BOLTS MIN. PER SHEAR WALL

PLANS FOR ALL DIMENSIONS

# **CONSTRUCTION NOTES**

1. ALLOWABLE SOIL PRESSURE USED IN DESIGN = 5000 PSF.
2. DO NOT PLACE BACKFILL AGAINST FOUNDATION WALLS UNTIL
BRACING FLOOR IS IN PLACE OR ADEQUATE SHORING IS INSTALLED.
3. ALL FOUNDATION WALLS ARE 8" THICK UNLESS NOTED OTHERWISE
ON PLAN. REFER TO CONCRETE NOTES AND PLANS FOR WALL
REINFORCEMENT, TYPE, AND SIZE OF ATTACH. ANCHORS REQUIRED.

CONCRETE NOTES:

1. PERFORM ALL CONCRETE WORK IN ACCORDANCE WITH ACI 301-05.

2. ALL CONCRETE SHALL BE STONE AGGREGATE AND HAVE A MIN COMPRESSIVE STRENGTH OF 3000 PSI TYPICAL, 4000 PSI AT SLABS ON GRADE, WITHIN 28 DAYS AFTER 2,500 PSI COMPRESSIVE STRENGTH (F'C) WAS ASSUMED IN THE CALCULATIONS, PLACING.

3. ALL METAL REINFORCEMENT SHALL CONFORM TO A.S.T.M. A615 AND SUPPLEMENT (S1), GRADE 60, WITH A MIN YIELD STRENGTH OF 60 KSI.

4. ALL REINFORCING BARS SHALL BE DETAILED, BOLSTERED AND SUPPORTED IN ACCORDANCE WITH ACI 315, 318, AND PUBLICATION SP-66.

59-66.

5. ALL REINFORCEMENT BARS SHALL BE SECURELY ANCHORED TO THE FORMS AND SPACED FROM THEM AS FOLLOWS: (A) FOR CONCRETE NOT EXPOSED DIRECTLY TO THE GROUND OR WEATHER, 3/4" IN SLABS, JOISTS AND WALLS; 1-1/2" IN PIERS, COLUMNS, BEAMS, AND GIRDERS. (B) FOR CONCRETE EXPOSED TO THE GROUND OR WEATHER, 2" IN WALLS, PIERS AND COLUMNS; 3" ABOVE BOTTOM OF FOOTINGS

6. ALL SPLICES IN CONT REINFORCING BARS SHALL LAP 30 BAR DIA'S. ALL SUCH SPLICES SHALL BE MADE IN A REGION OF COMPRESSION UNLESS SHOWN OTHERWISE. 7. PROVIDE 1/4" MIN AMPLITUDE ROUGHENED JOINT IN TOP OF ALL 8. LARGE AREAS OF SLAB ON GRADE SHALL BE PLACED IN CHECKERBOARD FASHION IN LENGTHS NOT TO EXCEED 24-0" IN ANY

DIRECTION.

9. PLACE CONTROL JOINTS IN SLABS AT 12'-0" O.C. IN EACH
DIRECTION BY SAW CUTTING OR PREMOLDED STRIP, 1/4TH THE SLAB
THICKNESS. THICKNESS.

10. REINFORCE ALL CONCRETE WALLS AS SHOWN ON THE PLANS.

11. USE (2) #4 AT TOPS, BOTTOM, AND SIDES OF ALL OPENINGS.

12. ALL DOWELS SHALL HAVE AT LEAST 30 BAR DIA EMBEDMENT AND/OR. STANDARD HOOK AT ENDS.

13. PROVIDE, STD. CORNER BABS, AT ALL INTERSECTING CORNERS OF WALLS AND HOOTINGS. USE/SAME SIZE AND SPACING AS YHORIZONTAL REINFORCEMENT.

14. CONTRACTOR IS RESPONSIBLE FOR ALL FORMING AND BRACING REQUIREMENTS TO ENSURE THAT THE FORMS ARE STABLE AND PLUMB DURING CONCRETE PLACEMENT

15. PROVIDE CONCRETE MIX WITH A MIN COMPRESSIVE STRENGTH OF 3,000 PSI

16. TOP OF FOUNDATION WALL TO BE A MIN OF 6" ABOVE ADJACENT FINISH GRADE

DATE **JUNE 2015** 



 
 MARK
 DATE

 1
 6/8/2015
 Revision 1
 DESCRIPTION

REVIEWED: AJH

PROJECT#

14SM2068

**SCALES** As indicated

**PROJECT NAME:** 

**FALCONE RESIDENCE** 

PROJECT LOCATION:

**7947 EAST HEARTWOOD DRIVE** WEBER COUNTY, UT

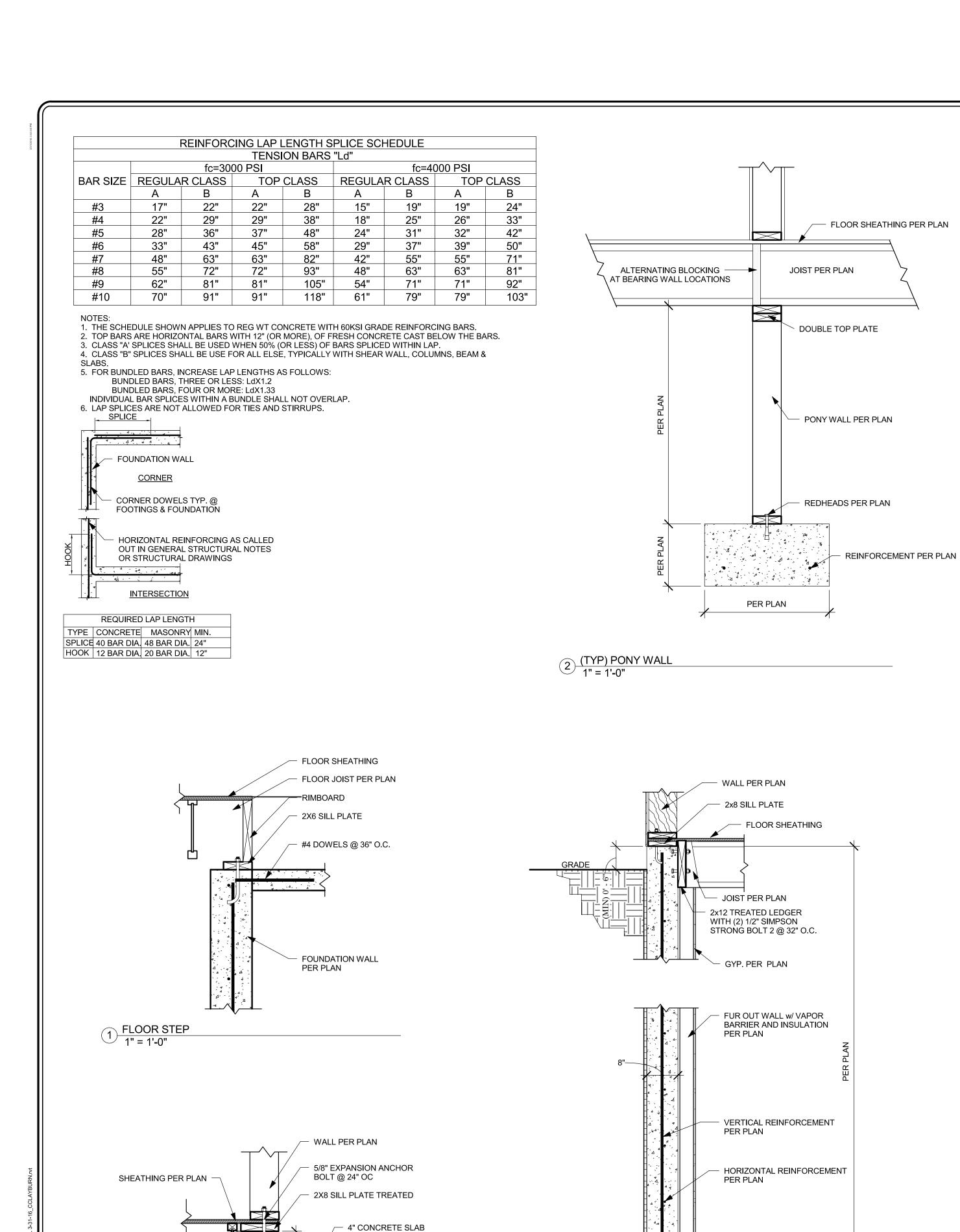
SHEET TITLE:

**FOUNDATION PLAN** 

PLAN SET: PERMIT

**S1.1** 

SHEET

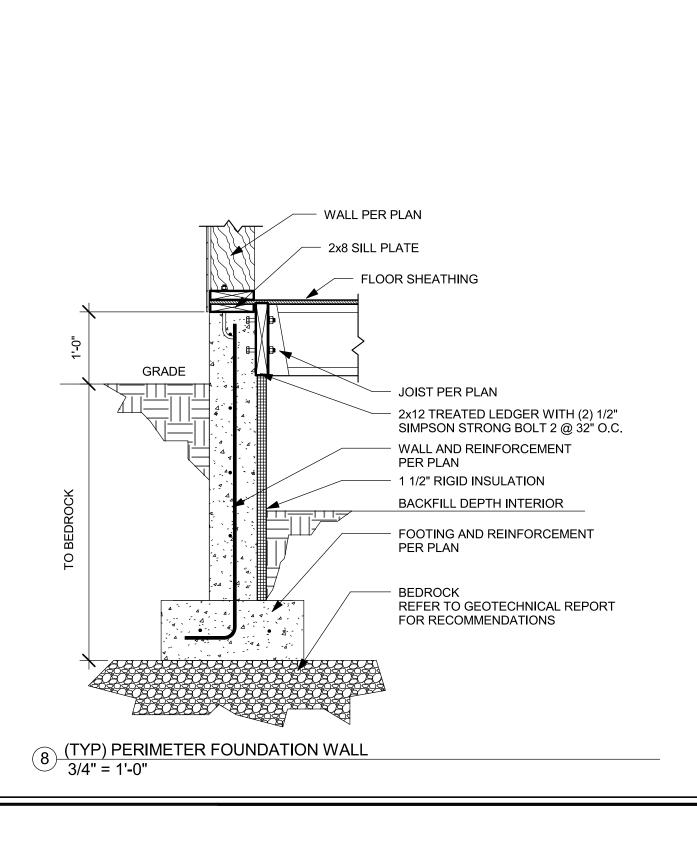


#4 DOWEL @ 36" OC

FOUNDATION WALL PER PLAN

FLOOR JOIST PER PLAN —

5 S. GARAGE STEM 2 1" = 1'-0"



FLOOR SLAB PER PLAN

6 (TYP) FULL HEIGHT FND WALL 3/4" = 1'-0"

FOOTING AND REINFORCEMENT

WALL PER PLAN

REFER TO POOL WALL

3 S. HOT TUB SIDE WALL 1" = 1'-0"

REINFORCEMENT

SECTION FOR ADDITIONAL

SHEATHING PER PLAN

(2) 1/2" BOLTS @ 32" O.C.

W/ (2) 1/2" @ 16' O.C.

BEAM PER PLAN

3/8" PLATE

(2) #4 BAR

PER PLAN

- PACK OUT BEAM W/ 2X BOLT

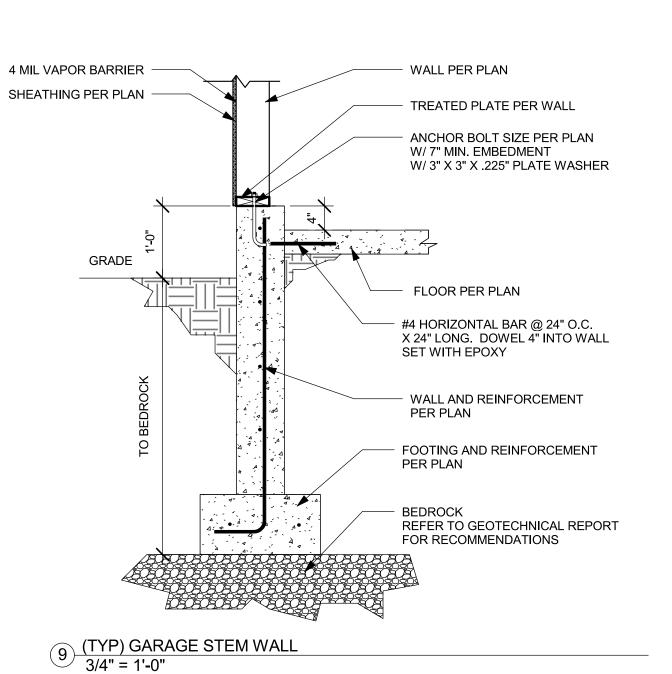
2x12 TREATED LEDGER WITH

(2) 1/2"x6" SIMPSON STRONG

BOLT 2 BOLTS @ 32" O.C.

- FOUNDATION WALL PER PLAN

FOOTING & REINFORCEMENT



#4 BAR @ 12" O.C.

EXTEND OUT OF TOP OF WALL

BEND INTO ROOF

DOWEL #4 BAR 4" INTO WALL @ 12" O.C. SET

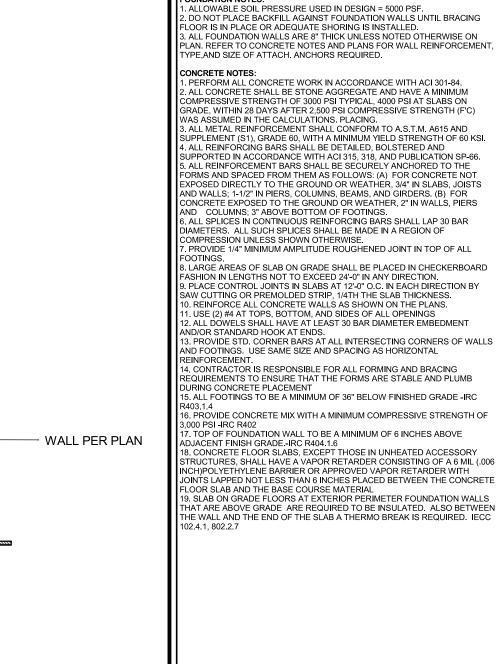
WITH EPOXY

#4 BAR @ 12" O.C. EW

WALL PER

SCHEDULE

4 LOWER ROOF SLAB @ HOUSE WALL 1" = 1'-0"



FOUNDATION

PER PLAN

DATE

**JUNE 2015** 

**CONSTRUCTION NOTES** 

MARK DATE DESCRIPTION

DESIGNER: PW REVIEWED: AJH PROJECT#

14SM2068

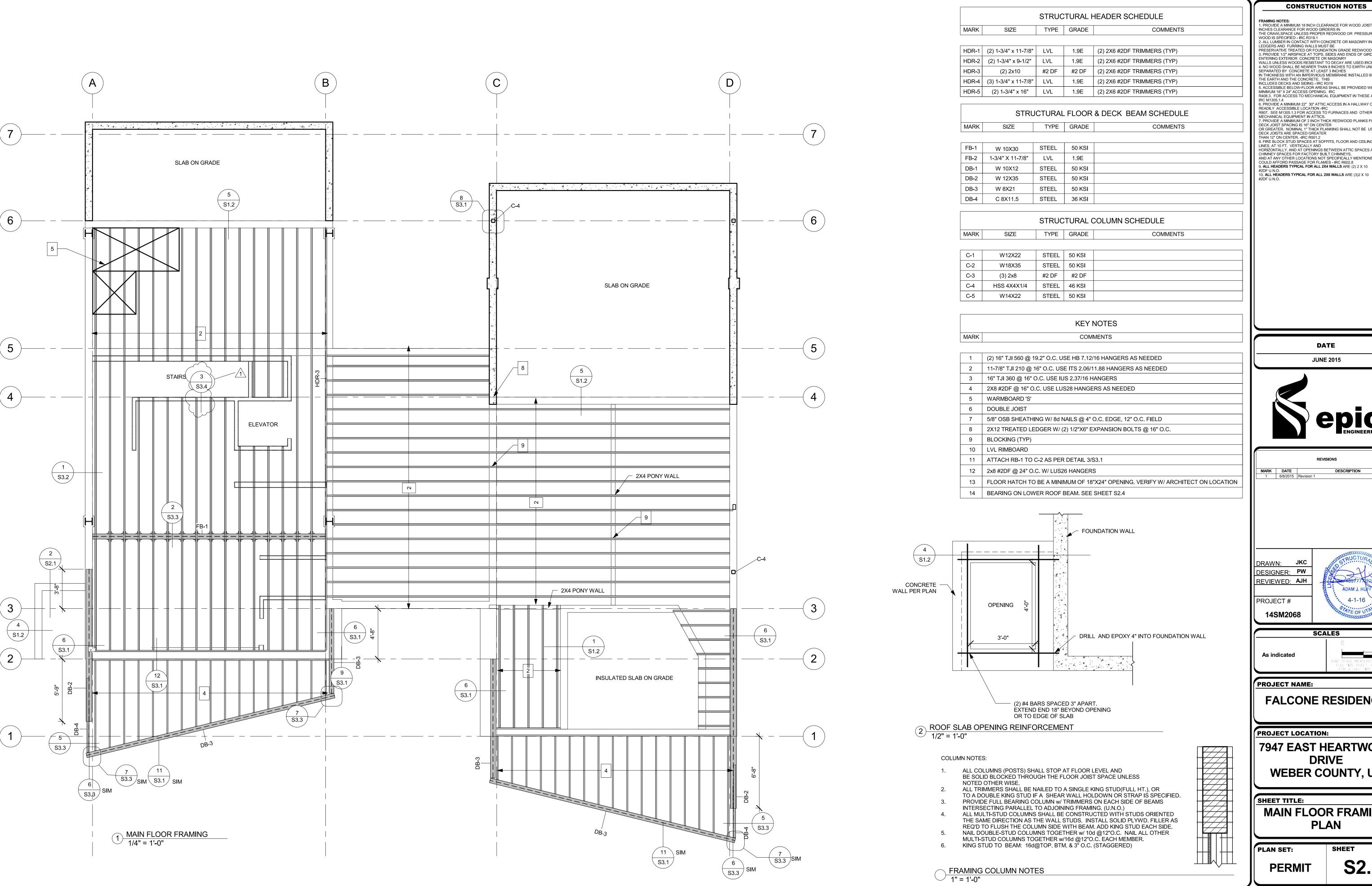
**SCALES** As indicated

PROJECT NAME: **FALCONE RESIDENCE** 

PROJECT LOCATION: **7947 EAST HEARTWOOD DRIVE WEBER COUNTY, UT** 

SHEET TITLE: **FOUNDATION SCHEDULES** 

PLAN SET: SHEET **S1.2** PERMIT



**CONSTRUCTION NOTES** 

FRAMING NOTES:

1. PROVIDE A MINIMUM 18 INCH CLEARANCE FOR WOOD JOISTS AND 12
INCHES CLEARANCE FOR WOOD GIRDERS IN
THE CRAWLSPACE UNLESS PROPER REDWOOD OR PRESSURE TREATED
WOOD IS SPECIFIED - IRC R319.1

2. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY INCLUDING
LEDGERS AND FURRING WALLS MUST BE
PRESERVATIVE TREATED OR FOUNDATION GRADE REDWOOD - IRC 319
3. PROVIDE 1/2" AIRSPACE AT TOPS, SIDES AND ENDS OF GIRDERS
ENTERING EXTERIOR CONCRETE OR MASONRY
WALLS UNLESS WOODS RESISTANT TO DECAY ARE USED IRCR319
4. NO WOOD SHALL BE NEARER THAN 8 INCHES TO FARTH UNI ESS

WALLS UNLESS WOODS RESISTANT TO DECAY ARE USED IRCR319
4. NO WOOD SHALL BE NEARER THAN 8 INCHES TO EARTH UNLESS
SEPARATED BY CONCRETE AT LEAST 3 INCHES
IN THICKNESS WITH AN IMPERVIOUS MEMBRANE INSTALLED BETWEEN
THE EARTH AND THE CONCRETE. THIS
INCLUDES DECKS AND SIDING - IRC R319
5. ACCESSIBLE BELOW-FLOOR AREAS SHALL BE PROVIDED WITH A
MINIMUM 18" X 24" ACCESS OPENING. IRC
R408.3. FOR ACCESS TO MECHANICAL EQUIPMENT IN THESE AREAS. SEE
IRC M1305.1.4
6. PROVIDE A MINIMUM 22" 30" ATTIC ACCESS IN A HALLWAY OR OTHER
READILY ACCESSIBLE LOCATION-IRC
R807. SEE M1305.1.3 FOR ACCESS TO FURNACES AND OTHER
MECHANICAL EQUIPMENT IN ATTICS.
7. PROVIDE A MINIMUM OF 2 INCH THICK REDWOOD PLANKS FOR DECK IF
DECK JOIST SPACING IS 16" ON CENTER
OR GREATER. NOMINAL 1" THICK PLANKING SHALL NOT BE USED WHERE
DECK JOISTS ARE SPACED GREATER
THAN 12" ON CENTER. -IRC R501.2
8. FIRE BLOCK STUD SPACES AT SOFFITS, FLOOR AND CEILING JOIST
LINES, AT 10 FT. VERTICALLY AND
HORIZONTALLY, AND AT OPENINGS BETWEEN ATTIC SPACES AND
CHIMNEY SPACES FOR FACTORY BUILT CHIMNEYS,
AND AT ANY OTHER LOCATIONS NOT SPECIFICALLY MENTIONED WHICH
COULD AFFORD PASSAGE FOR FLAMES - IRC R602.8
9. ALL HEADERS TYPICAL FOR ALL 2X4 WALLS ARE (2) 2 X 10 9. ALL HEADERS TYPICAL FOR ALL 2X4 WALLS ARE (2) 2 X 10

DATE

**JUNE 2015** 



 
 MARK
 DATE

 1
 6/8/2015
 Revision 1
 DESCRIPTION

DESIGNER: PW REVIEWED: AJH

14SM2068

PROJECT#

SCALES

As indicated

**PROJECT NAME:** 

**FALCONE RESIDENCE** 

PROJECT LOCATION:

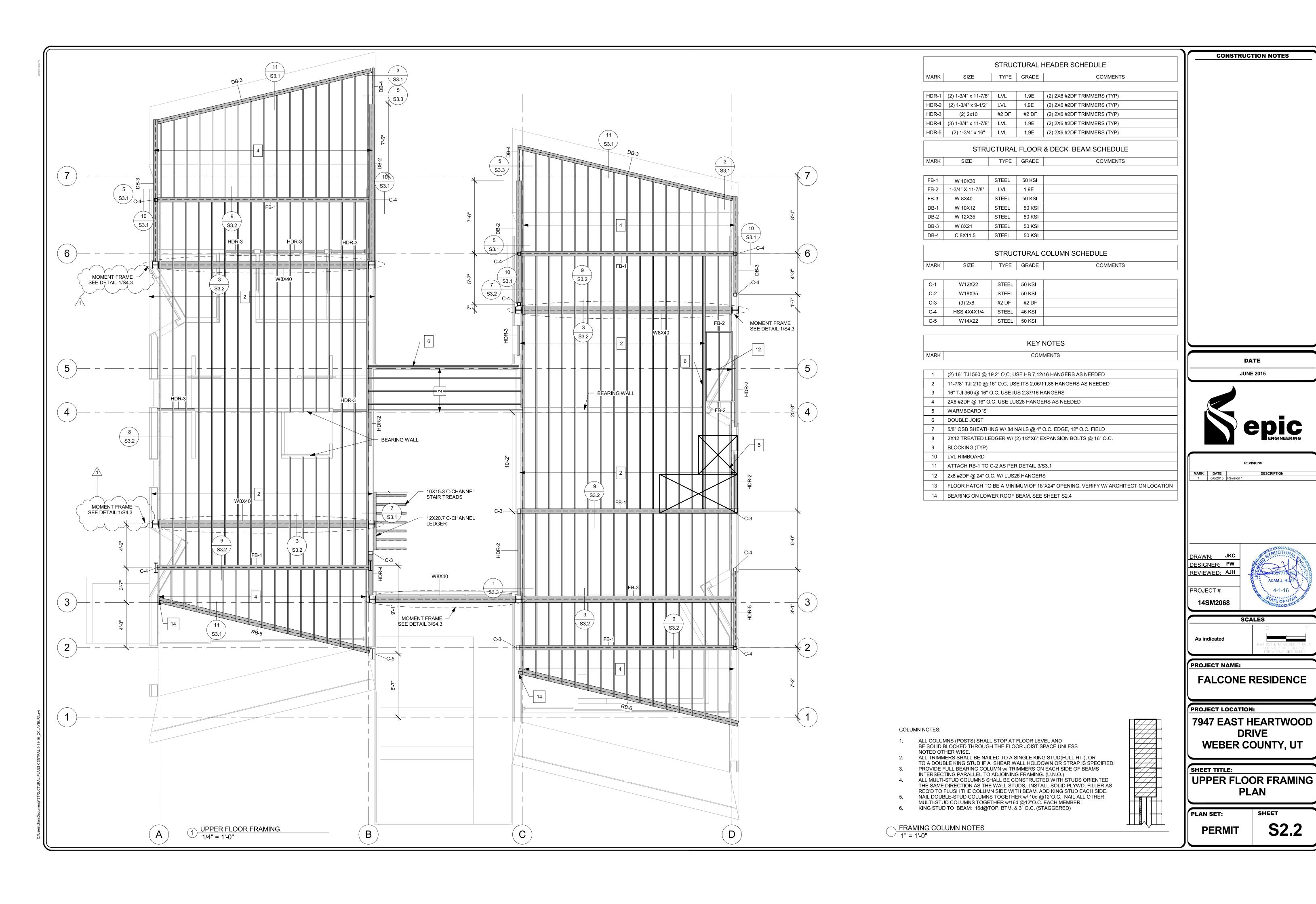
**7947 EAST HEARTWOOD DRIVE WEBER COUNTY, UT** 

SHEET TITLE:

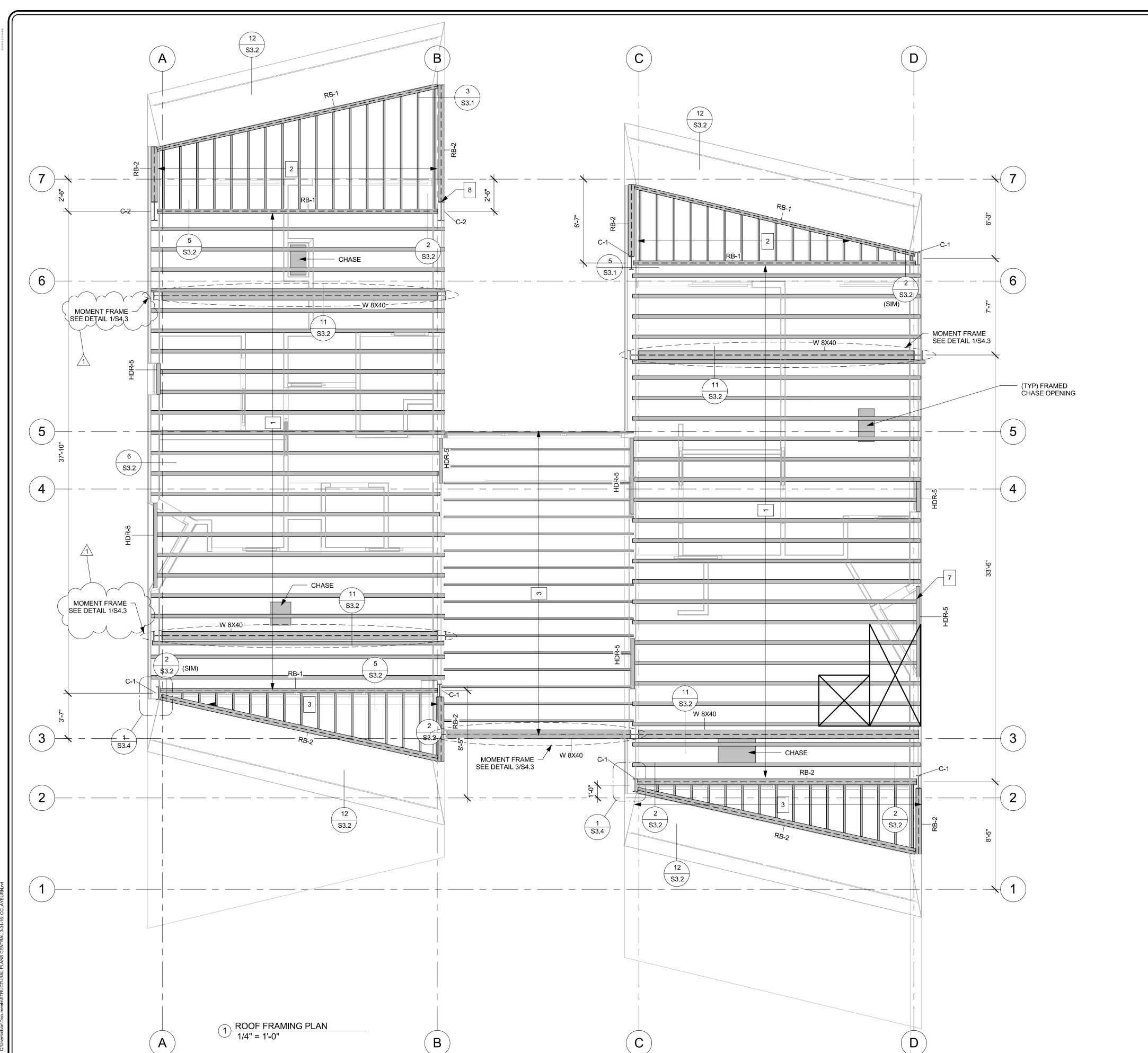
MAIN FLOOR FRAMING **PLAN** 

PLAN SET: SHEET

**S2.1 PERMIT** 



**S2.2** 



| STRUCTURAL HEADER SCHEDULE    |                      |       |       |                             |  |  |  |
|-------------------------------|----------------------|-------|-------|-----------------------------|--|--|--|
| MARK SIZE TYPE GRADE COMMENTS |                      |       |       |                             |  |  |  |
|                               |                      |       |       |                             |  |  |  |
| HDR-1                         | (2) 1-3/4" x 11-7/8" | LVL   | 1.9E  | (2) 2X6 #2DF TRIMMERS (TYP) |  |  |  |
| HDR-2                         | (2) 1-3/4" x 9-1/2"  | LVL   | 1.9E  | (2) 2X6 #2DF TRIMMERS (TYP) |  |  |  |
| HDR-3                         | (2) 2x10             | #2 DF | #2 DF | (2) 2X6 #2DF TRIMMERS (TYP) |  |  |  |
| HDR-4                         | (3) 1-3/4" x 11-7/8" | LVL   | 1.9E  | (2) 2X6 #2DF TRIMMERS (TYP) |  |  |  |

\* ALL HEADERS @ ROOF FRAMING LEVEL ARE FLUSH WITH THE FRAMING SEE DETAIL 4/S3.1

| HDR-5 | (2) 1-3/4" x 16" | LVL | 1.9E | (2) 2X6 #2DF TRIMMERS (TYP)

|      | STRUCTURAL ROOF BEAM SCHEDULE |       |        |          |  |  |  |  |
|------|-------------------------------|-------|--------|----------|--|--|--|--|
| MARK | SIZE                          | TYPE  | GRADE  | COMMENTS |  |  |  |  |
|      |                               |       |        |          |  |  |  |  |
| RB-1 | W 12X22                       | STEEL | 50 KSI |          |  |  |  |  |
| RB-2 | W 16X26                       | STEEL | 50 KSI |          |  |  |  |  |
| RB-3 | W 14X38                       | STEEL | 50 KSI |          |  |  |  |  |
| RB-4 | W 12X26                       | STEEL | 50 KSI |          |  |  |  |  |
| RB-5 | (2) 1-3/4" x 11-7/8"          | LVL   | 1.9E   |          |  |  |  |  |

| STRUCTURAL COLUMN SCHEDULE |             |       |        |          |  |  |  |  |
|----------------------------|-------------|-------|--------|----------|--|--|--|--|
| MARK                       | SIZE        | TYPE  | GRADE  | COMMENTS |  |  |  |  |
|                            |             |       |        |          |  |  |  |  |
| C-1                        | W12X22      | STEEL | 50 KSI |          |  |  |  |  |
| C-2                        | W18X35      | STEEL | 50 KSI |          |  |  |  |  |
| C-3                        | (3) 2x8     | #2 DF | #2 DF  |          |  |  |  |  |
| C-4                        | HSS 4X4X1/4 | STEEL | 46 KSI |          |  |  |  |  |
| C-5                        | W14X22      | STEEL | 50 KSI |          |  |  |  |  |

|      | KEY NOTES |
|------|-----------|
| MARK | COMMENTS  |

| 1  | (2) 16" TJI 560 @ 19.2" O.C. USE HB 7.12/16 HANGERS AS NEEDED                   |
|----|---|
| 2  | 11-7/8" TJI 210 @ 16" O.C. USE ITS 2.06/11.88 HANGERS AS NEEDED                 |
| 3  | 16" TJI 360 @ 16" O.C. USE IUS 2.37/16 HANGERS                                  |
| 4  | 2X8 #2DF @ 16" O.C. USE LUS28 HANGERS AS NEEDED                                 |
| 5  | WARMBOARD 'S'   |
| 6  | DOUBLE JOIST  |
| 7  | 5/8" OSB SHEATHING W/ 8d NAILS @ 4" O.C. EDGE, 12" O.C. FIELD                   |
| 8  | 2X12 TREATED LEDGER W/ (2) 1/2"X6" EXPANSION BOLTS @ 16" O.C.                   |
| 9  | BLOCKING (TYP)  |
| 10 | LVL RIMBOARD  |
| 11 | ATTACH RB-1 TO C-2 AS PER DETAIL 3/S3.1   |
| 12 | 2x8 #2DF @ 24" O.C. W/ LUS26 HANGERS  |
| 13 | FLOOR HATCH TO BE A MINIMUM OF 18"X24" OPENING. VERIFY W/ ARCHITECT ON LOCATION |

14 BEARING ON LOWER ROOF BEAM. SEE SHEET S2.4

CONSTRUCTION NOTES
NG NOTES:
VIDE A MINIMUM 18 INCH CLEARANG

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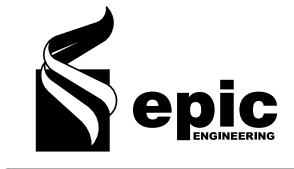
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R807. SEE M1305.1.3 FOR ACCESS TO FURNACES AND OTHER MECHANICAL EQUIPMENT IN ATTICS.
7. PROVIDE A MINIMUM OF 2 INCH THICK REDWOOD PLANKS FOR DECK IF DECK JOIST SPACING IS 16" ON CENTER OR GREATER.
NOMINAL 1" THICK PLANKING SHALL NOT BE USED WHERE DECK JOISTS ARE SPACED GREATER THAN 12" ON CENTER. -IRC R501.2

8. FIRE BLOCK STUD SPACES AT SOFFITS, FLOOR AND CEILING JOIST LINES, AT 10 FT. VERTICALLY AND HORIZONTALLY, AND AT OPENINGS BETWEEN ATTIC SPACES AND CHIMNEY SPACES FOR FACTORY BUILT CHIMNEYS, AND AT ANY OTHER LOCATIONS NOT SPECIFICALLY MENTIONED WHICH COULD AFFORD PASSAGE FOR FLAMES - IRC R602.8

9. ALL HEADERS TYPICAL FOR ALL 2X4 WALLS ARE (2) 2 X 10 #2DF U.N.O. 10. ALL HEADERS TYPICAL FOR ALL 2X6 WALLS ARE (3)2 X 10 #2DF U.N.O.

JUNE 2015



DRAWN: JKC
DESIGNER: PW
REVIEWED: AJH

PROJECT#

14SM2068

ADAM J. HUFF

4-1-16

4-1-16

SCALES

SCALES

O

1/4" = 1'-0"

BAR SCALE MEASURES 1"
FULL SIZE SHEET. ADJU:
FOR A HALF SIZE SHE

PROJECT NAME:

FALCONE RESIDENCE

PROJECT LOCATION:

7947 EAST HEARTWOOD DRIVE WEBER COUNTY, UT

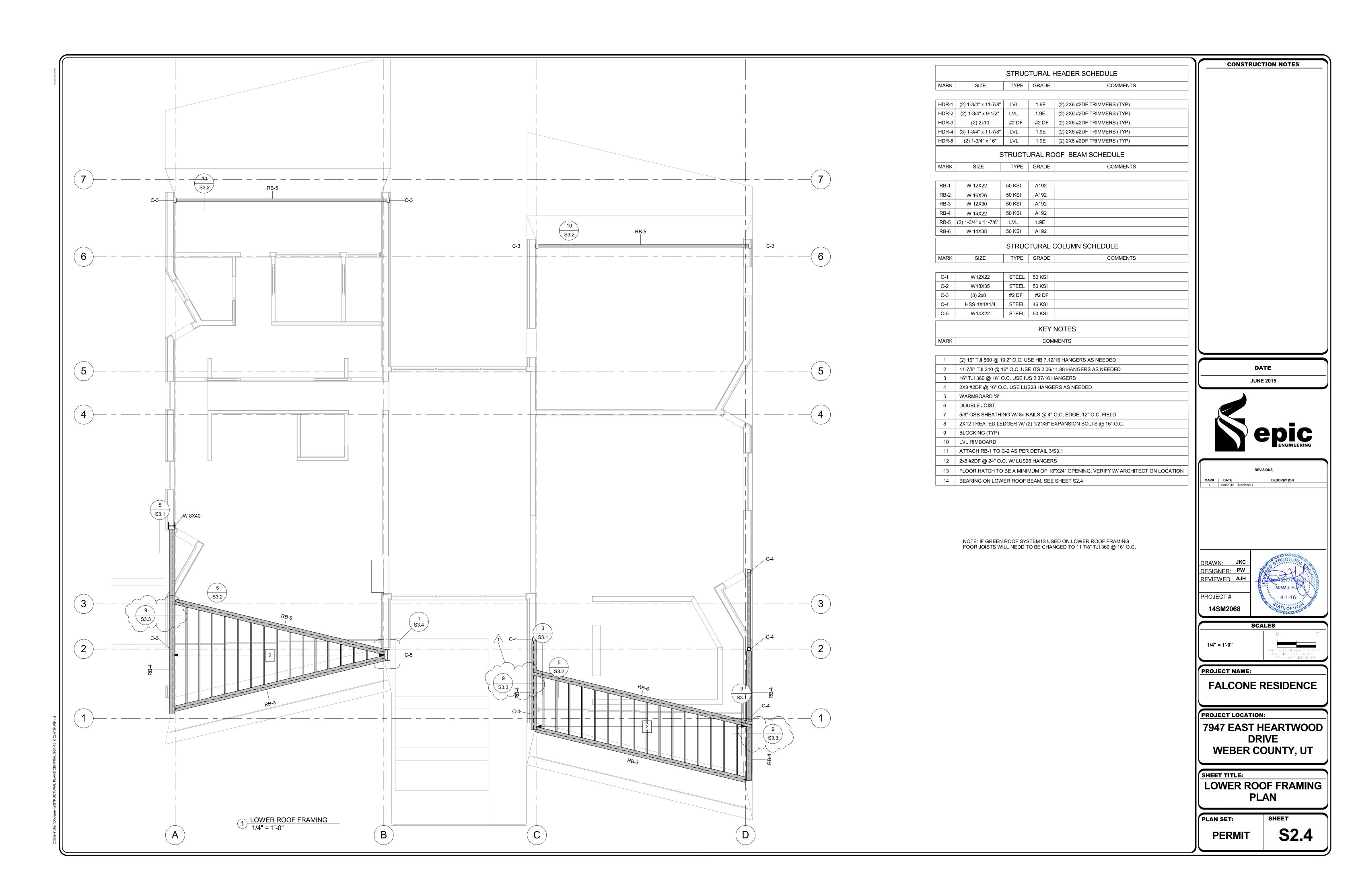
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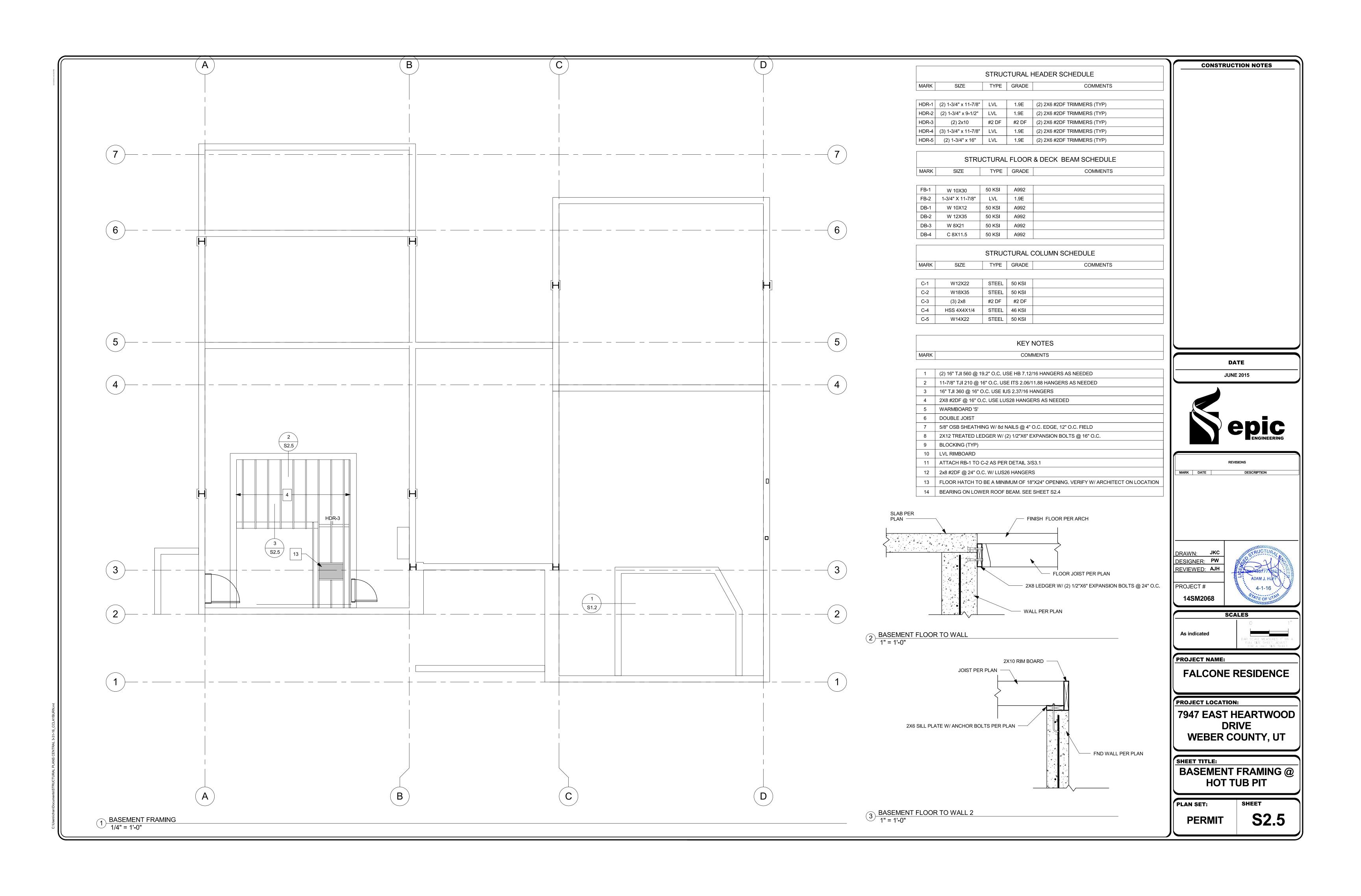
**ROOF FRAMING PLAN** 

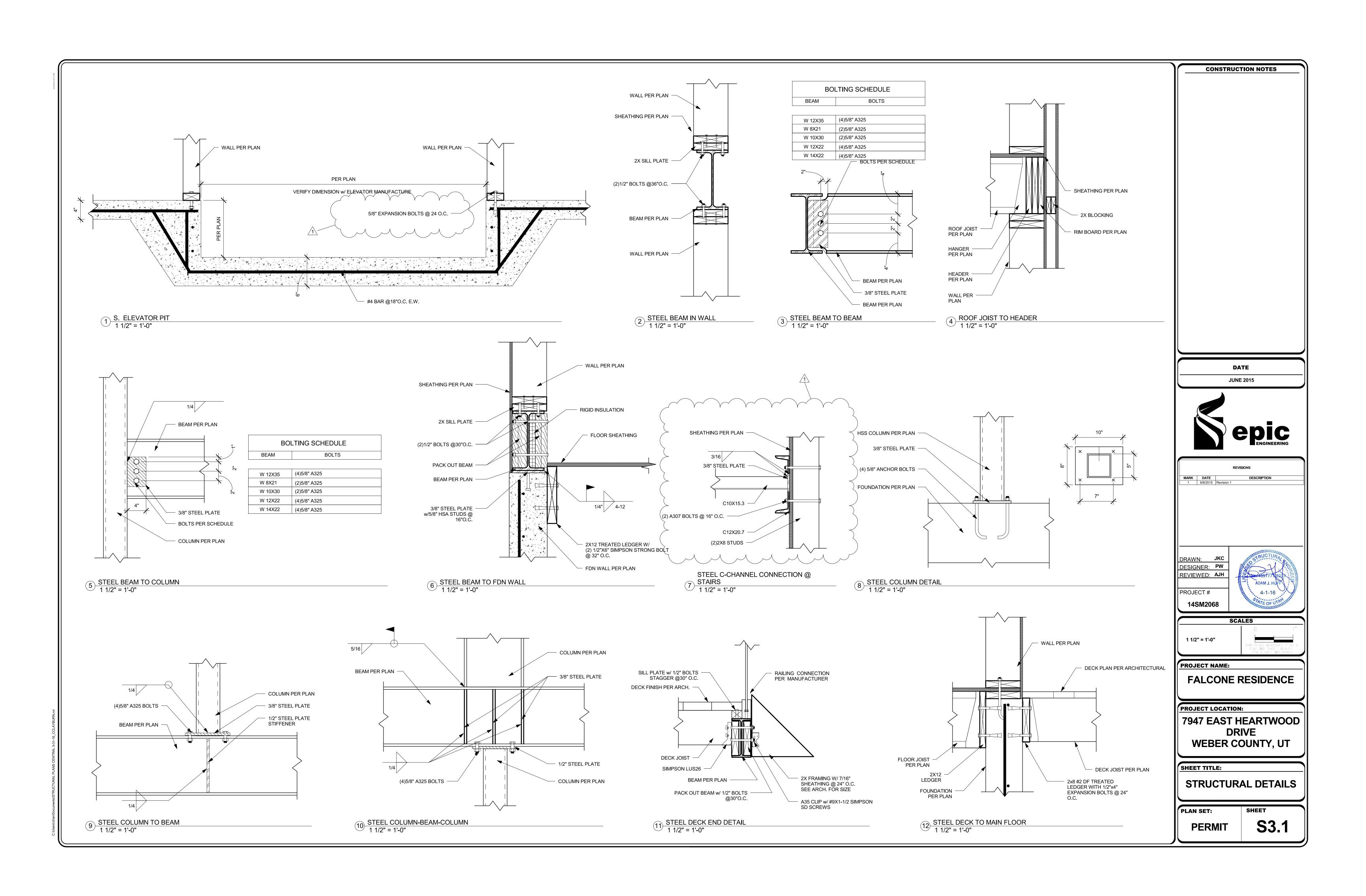
PLAN SET:
PERMIT

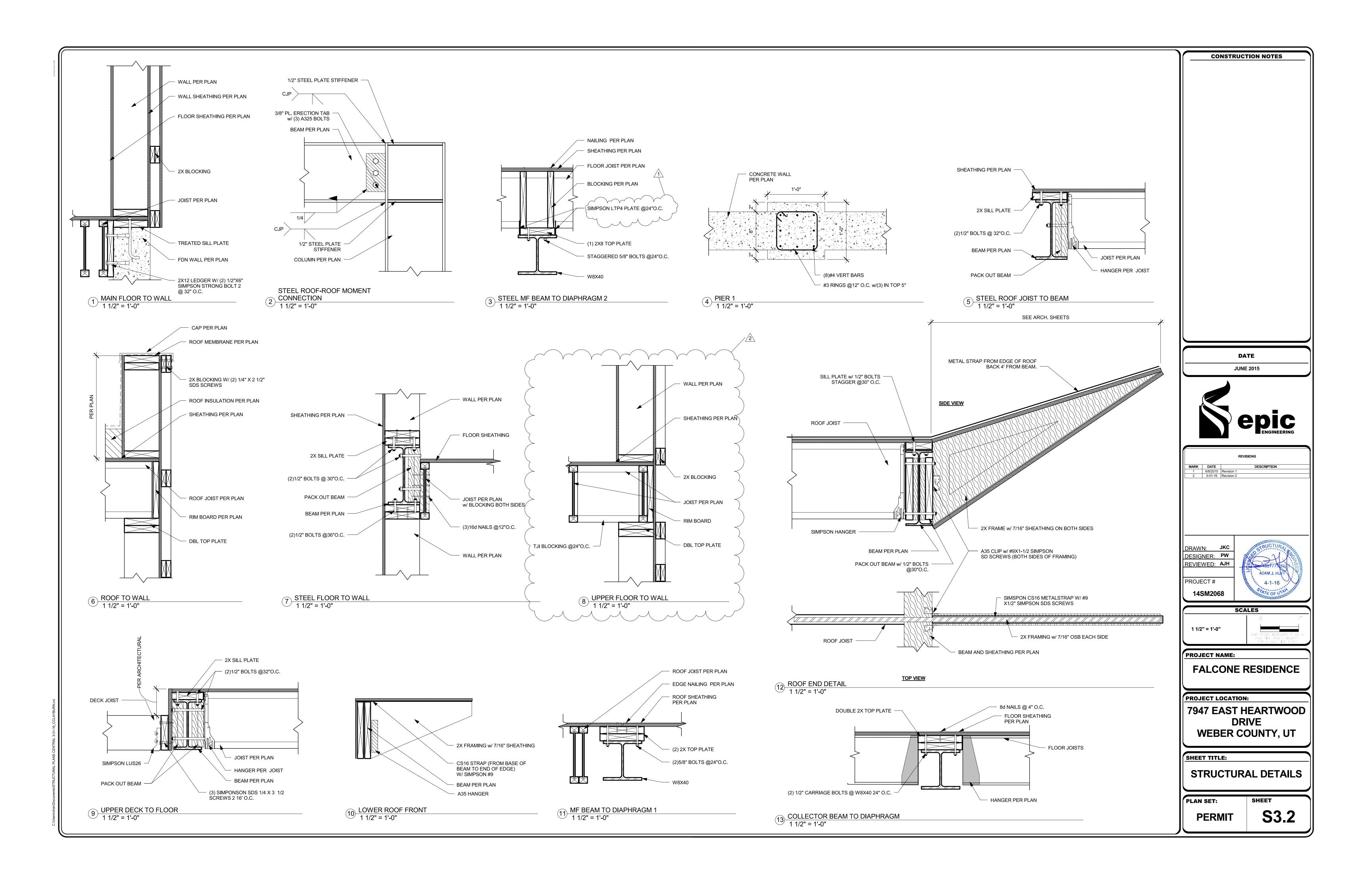
**S2.3** 

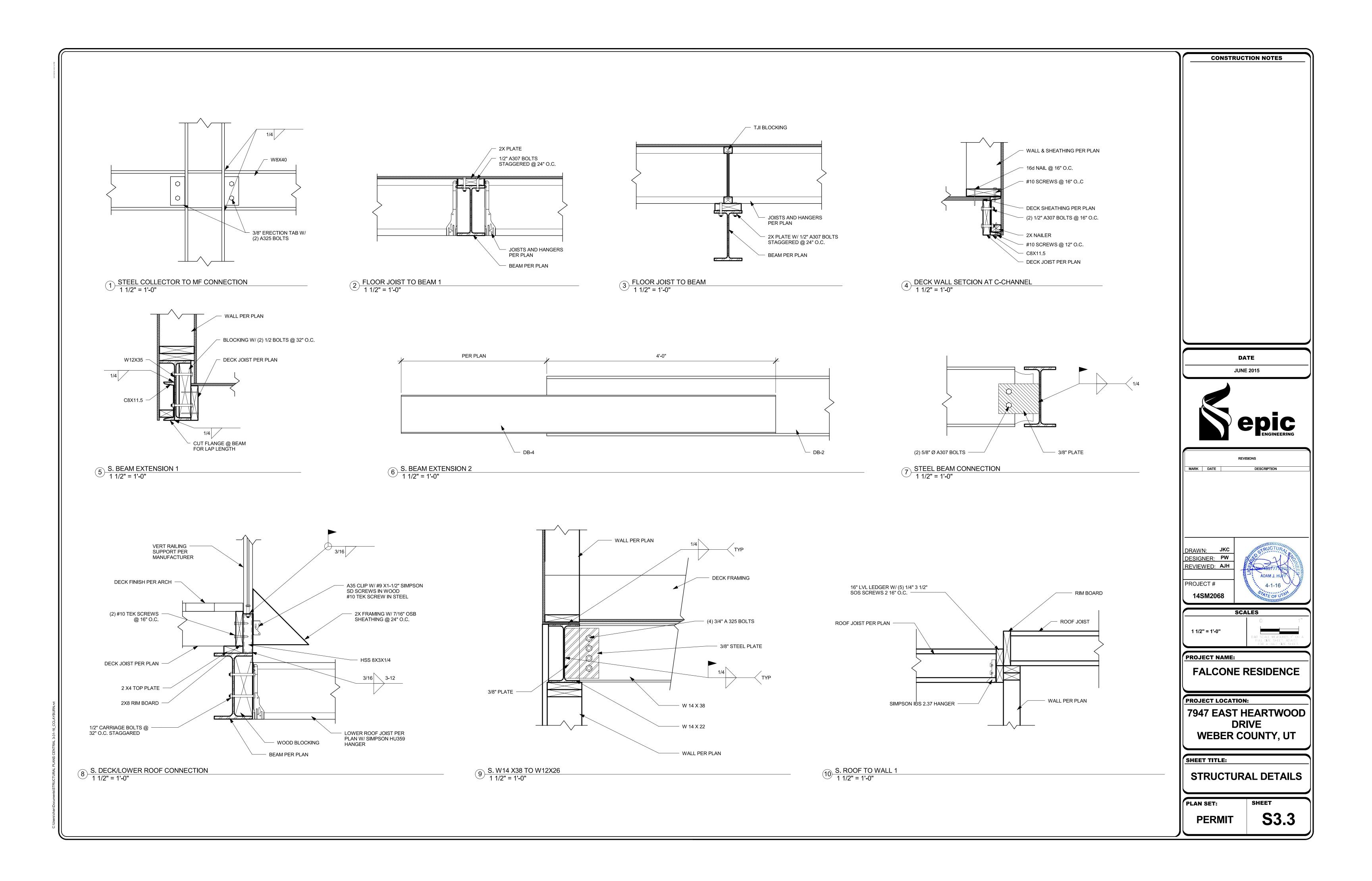
SHEET

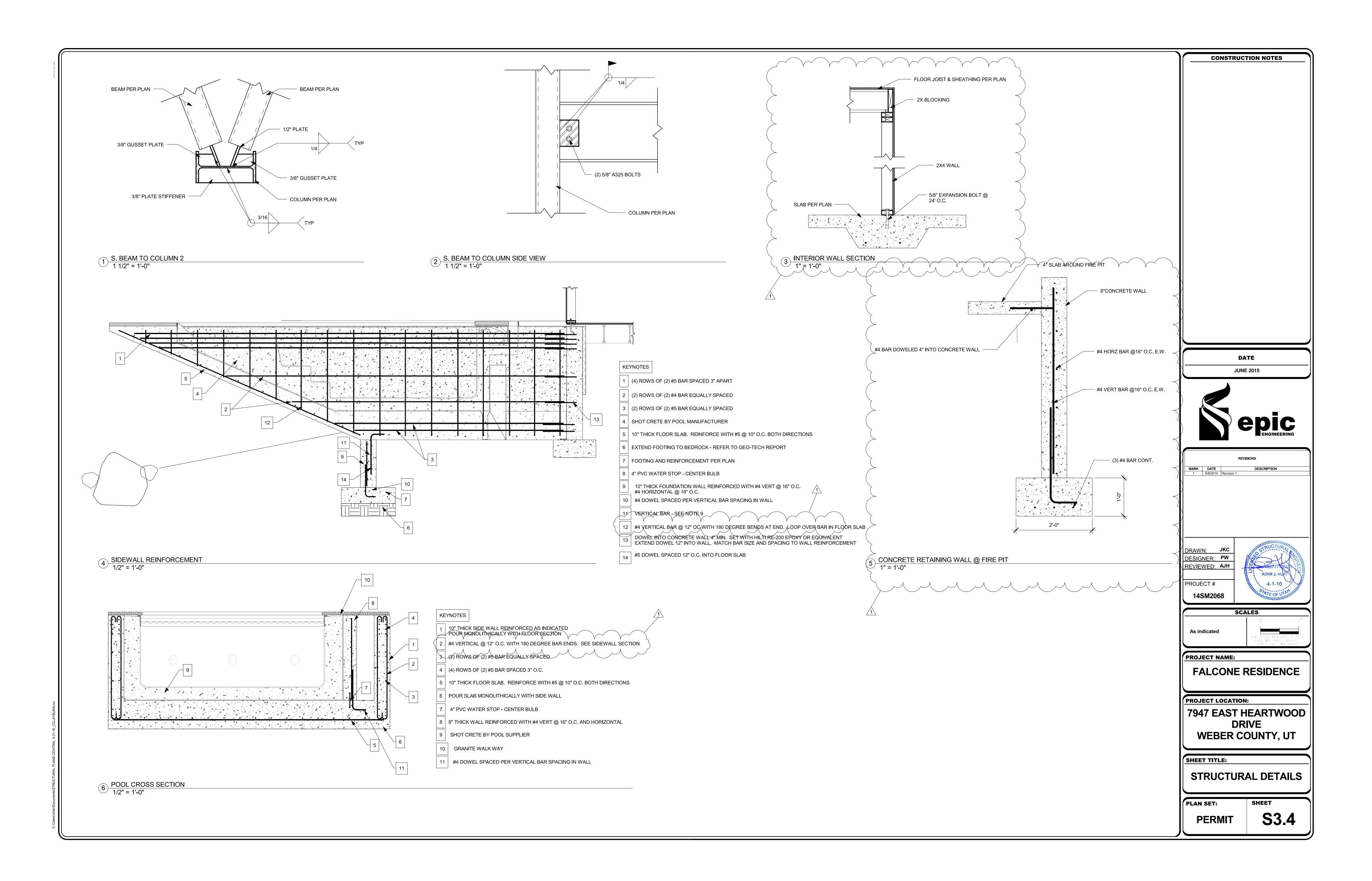












#### ANCHOR BOLT SCHEDULE \*\* 5/8" DIAM x 12" w/ Standard Hook @ 32" o.c. unless noted otherwise per schedule. SILL PLATE STRENGTH (plf) MARK DESCRIPTION SPACING WASHER BP-1 5/8" Dia. X 12" w/ stnd. Hook 3"x3"x1/4" 434 BP-2 5/8" Dia. X 12" w/ stnd. Hook 3"x3"x1/4" 579 BP-3 5/8" Dia. X 12" w/ stnd. Hook 3"x3"x1/4" 772 3x6 min BP-4 5/8" Dia. X 12" w/ stnd. Hook 1158 3"x3"x1/4" 3x6 min

|      | HOLD DOWN AND STRAP SCHEDULE |  |                    |             |  |  |  |  |
|------|------------------------------|--|--------------------|-------------|--|--|--|--|
| MARK | HOLD DOWN                    |  | TYPE               | Allow. LOAD |  |  |  |  |
| A    | Simpson STHD10               |  | Embedded Hold down | 2940 lbs    |  |  |  |  |
| B    | Simpson MSTC28               |  | Strap Tie          | 1155 lbs    |  |  |  |  |

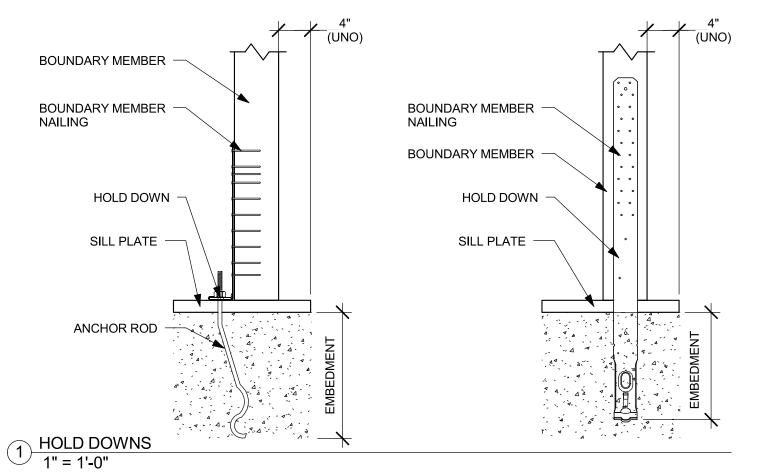
1. ANCHOR RODS SHALL BE HEADED BOLTS OR RODS THREADED WITH HEAVY HEX NUT. 2. INCREASE FOOTING DEPTH WHERE EMBEDMENT LENGTH PLUS 3" IS GREATER THAN FOOTING DEPTH SPECIFIED. 3. ALL HOLD DOWNS SPECIFIED ARE "SIMPSON-STRONG TIE", SEE GENERAL STRUCTURAL NOTES FOR SUBSTITUTIONS

410

4. LAG SCREWS SHALL NOT BE USED.

BP-5 1/2" Dia. Thru Bolt to Steel Below

5. DO NOT OVER TORQUE NUTS; SEE MANUFACTURES TORQUE REQUIREMENTS. 6 SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



# SHEAR WALL SCHEDULE NAILING REQ. MARK EDGE FIELD NOTES SEISMIC SW-1 6" 12" 1,2,3,4 255 SW-2 4" 12" 1,2,3,4,5 395 SW-3 3" 12" 1,2,3,4,5 505 SW-4 2" 12" 1,2,3,4,5 670 SEISMICWIND

- 1. 16" o.c. max stud spacing (AWC SDPWS-2008 Note 2) 2. 7/16" APA rated OSB panel.
- 3. 8d common or galvanized box nailing. Provide hot dipped zinc-coated galvanized steel, stainless steel, silicon bronze or copper nails at
- perservative- treated and fire-retardant-treated wood locations.
- 5. 3" nominal framing at abutting panel edges (IBC Notes d & g)6. Wind Capicties increased by 40% per IBC 2012 Section 2306.3
- \*IBC notes above refer to "Notes to Table 2306.3(1)" in 2012 IBC

| PENNY                 | EQUIVALENT SPACING (INCHES) |          |                |  |  |  |  |
|-----------------------|-----------------------------|----------|----------------|--|--|--|--|
| WEIGHT<br>DESIGNATION | COMMON NAIL                 | BOX NAIL | 16 GAGE STAPLE |  |  |  |  |
|                       | 4                           | 4        | 3 1/2          |  |  |  |  |
|                       | 6                           | 6        | 5              |  |  |  |  |
| 6d                    | 8                           | 8        | 6 1/2          |  |  |  |  |
|                       | 10                          | 10       | 8 1/2          |  |  |  |  |
|                       | 12                          | 12       | 10             |  |  |  |  |
|                       | 3                           | 3        | 2              |  |  |  |  |
|                       | 4                           | 4        | 2 1/2          |  |  |  |  |
| 0.4                   | 6                           | 6        | 4              |  |  |  |  |
| 8d                    | 8                           | 8        | 5 1/2          |  |  |  |  |
|                       | 10                          | 10       | 6 1/2          |  |  |  |  |
|                       | 12                          | 12       | 8              |  |  |  |  |
|                       | 4                           | 4        | 2              |  |  |  |  |
|                       | 6                           | 6        | 3 1/2          |  |  |  |  |
| 10d                   | 8                           | 8        | 4 1/2          |  |  |  |  |
|                       | 10                          | 10       | 5 1/2          |  |  |  |  |
|                       | 12                          | 12       | 6 1/2          |  |  |  |  |

| NO  | NOTES:                      |                  |                   |  |     |  |  |  |
|---|-----------------------------|------------------|-------------------|--|-----|--|--|--|
| <ol> <li>SPACING VALID FOR LATERAL LOAD ONLY, 7/16 STRUCTURAL II PLYWOOD<br/>OR OSB SHEATHING.</li> </ol> |                             |                  |                   |  |     |  |  |  |
| 2.  | STAPLES SHA                 | ALL HAVE A MINIM | IUM CROWN WIDT    | TH OF 7/16 INCH.                                       |     |  |  |  |
| 3.  | INTERNATION                 | IAL BUILDING CO  | DE (IBC) TABLE 23 | 06.4.1.  |     |  |  |  |
| 4.  | ICC EVALUAT                 | ION SERVICE REI  | PORT NO. 1539, TA | \BLE 14.   |     |  |  |  |
| 5.  | LOS ANGLES<br>NO. 23633, TA |                  | BUILDING AND S.   | AFETY RESEARCH REP                                     | ORT |  |  |  |
| 6.  | WOOD SHALL                  |                  | PED ZINC-COATED   | IRE-RETARDANT-TREA <sup>T</sup><br>GALVANIZED STEEL, S |     |  |  |  |

WOOD SHEATHING SHEAR WALL NOTES: 1. PROVIDE 1/4" X 3" X 0'-3" WASHER PLATES AT BOLTS. CONTRACTOR HAS OPTION TO PROVIDE A DIAGONAL SLOTTED HOLE WITH A WIDTH OF T UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH OF UP TO

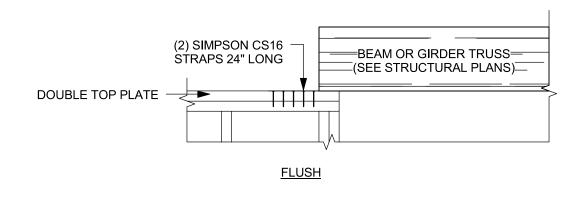
1.3/4". PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT. 2. USE COMMON NAILS. AT SILL PLATE USE HOT DIPPED OR TUMBLED GALVANIZED. 3. ANCHOR BOLTS SHALL HAVE A 7" MINIMUM EMBEDMENT INTO CONCRETE AND TERMINATE WITH A 3" STANDARD 90

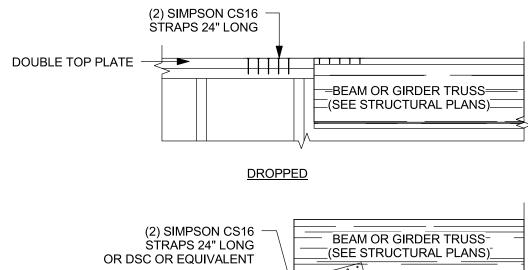
DEG. HOOK AND BE HOT-DIPPED GALVANIZED STAINLESS STEEL IN ACCORDANCE WITH IBC 2304.95 4. WHERE STUDS ARE CUT FOR PLACEMENT OF ANCHOR BOLTS OR OTHER ELEMENTS, AN ADJACENT STUD SHALL BE ADDED.

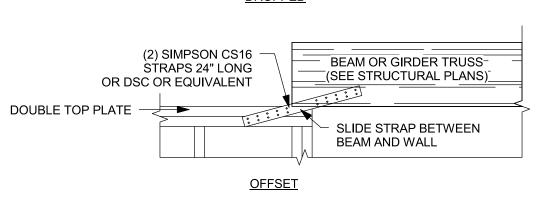
5. WHERE WOOD SHEATHING IS APPLIED TO BOTH SIDES OF A WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING MEMBER

SHALL BE 3" OR THICKER AND NAILS ON EITHER SIDE SHALL BE STAGGERED. 6. PRE-DRILLED HOLE ARE REQUIRED AT 20d NAILS. 7. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL

REQUIREMENTS.







10d @ 3" O.C. / ROOF SHEATHING

PRE-FABRICATED

SHEAR WALL

PERPENDICULAR TO TRUSSES

PARALLEL TO TRUSSES

/ ROOF SHEATHING

DOUBLE TOP PLATE

DRAG TRUSS OR FRAMED WALL

WITH SHEATHING AND NAILING SAME AS SHEAR WALL ALIGNED BELOW

TRUSS BLOCKING

/ SHEATHING

NAILING - SAME AS

NAIL BLOCKING TO

NAILS @ 6" O.C.

SIMPSON LTP4

@ 16" O.C. OR

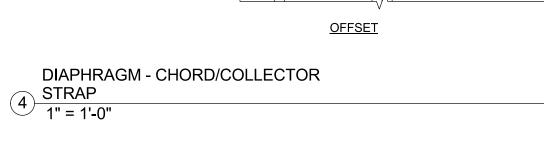
2X FRAMING

A35 @ 12" O.C.

DOUBLE TOP PLATE

TRUSSES WITH 16d

SHEAR WALL BELOW



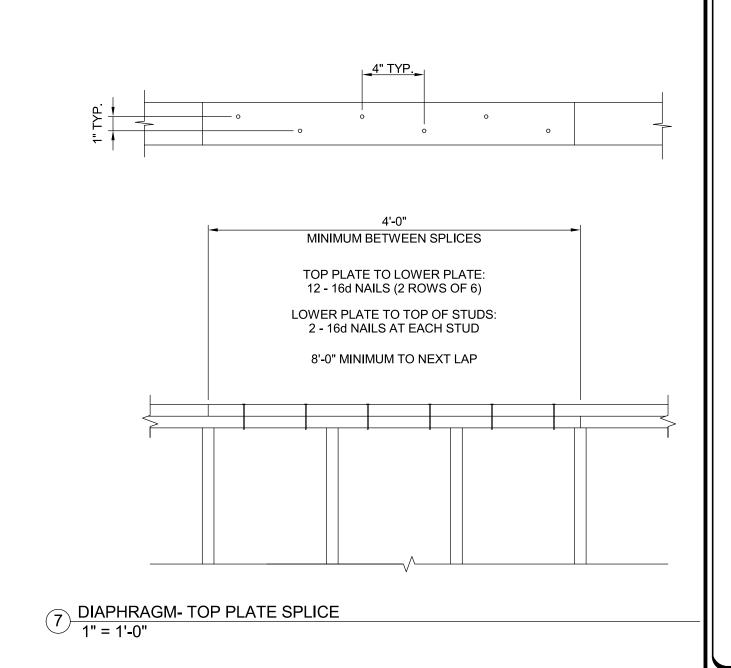
SHEATHING -

2 CONNECTION 1" = 1'-0"

SIMPSON A35 @ 12" — O.C. OR LTP4 @ 16" O.C.

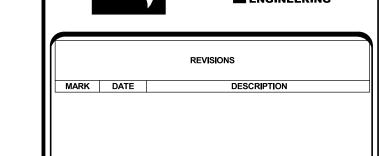
SHEAR WALL (SEE STRUCTURAL) -

SHEAR WALL - ROOF DIAPHRAGM



DATE **JUNE 2015** 

CONSTRUCTION NOTES



DESIGNER: PW REVIEWED: AJH

14SM2068

PROJECT#

|            | SCALES   |           |
|------------|--|-----------|
| 1" = 1'-0" | BAR SCALE MEASU<br>FULL SIZE SHEE'<br>FOR A HALF S | T. ADJUST |
|            |  |           |

PROJECT NAME: **FALCONE RESIDENCE** 

PROJECT LOCATION:

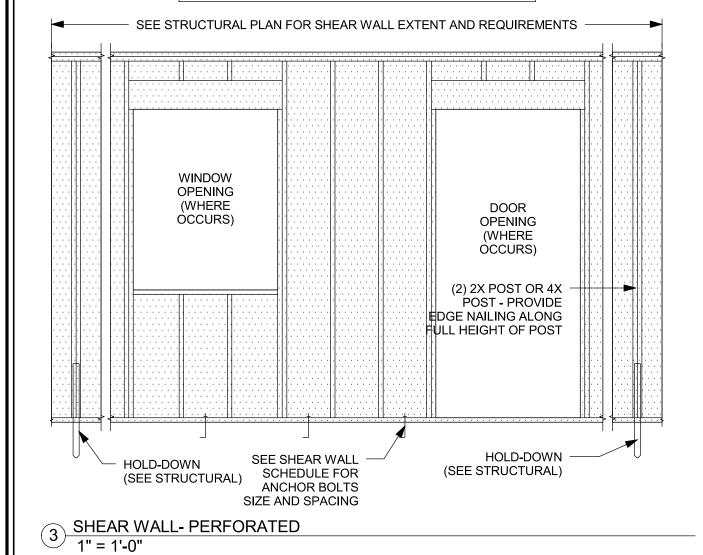
**7947 EAST HEARTWOOD DRIVE WEBER COUNTY, UT** 

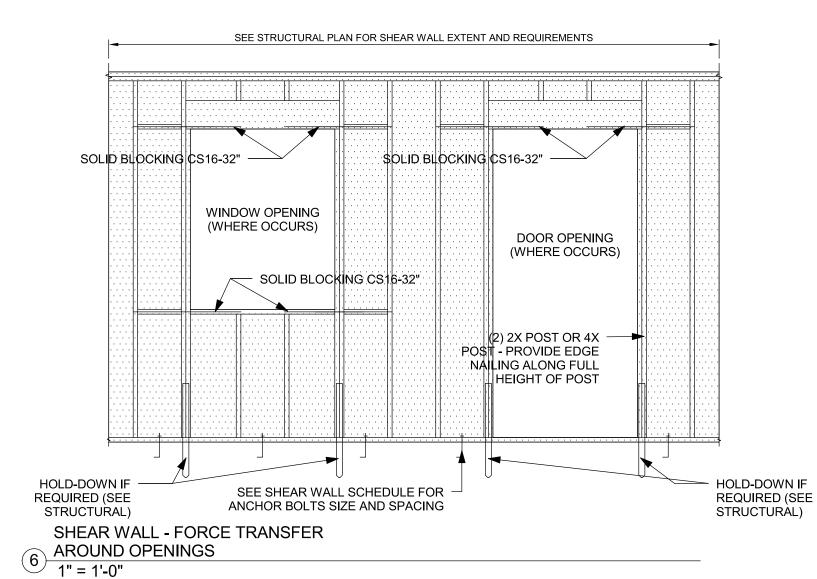
SHEET TITLE:

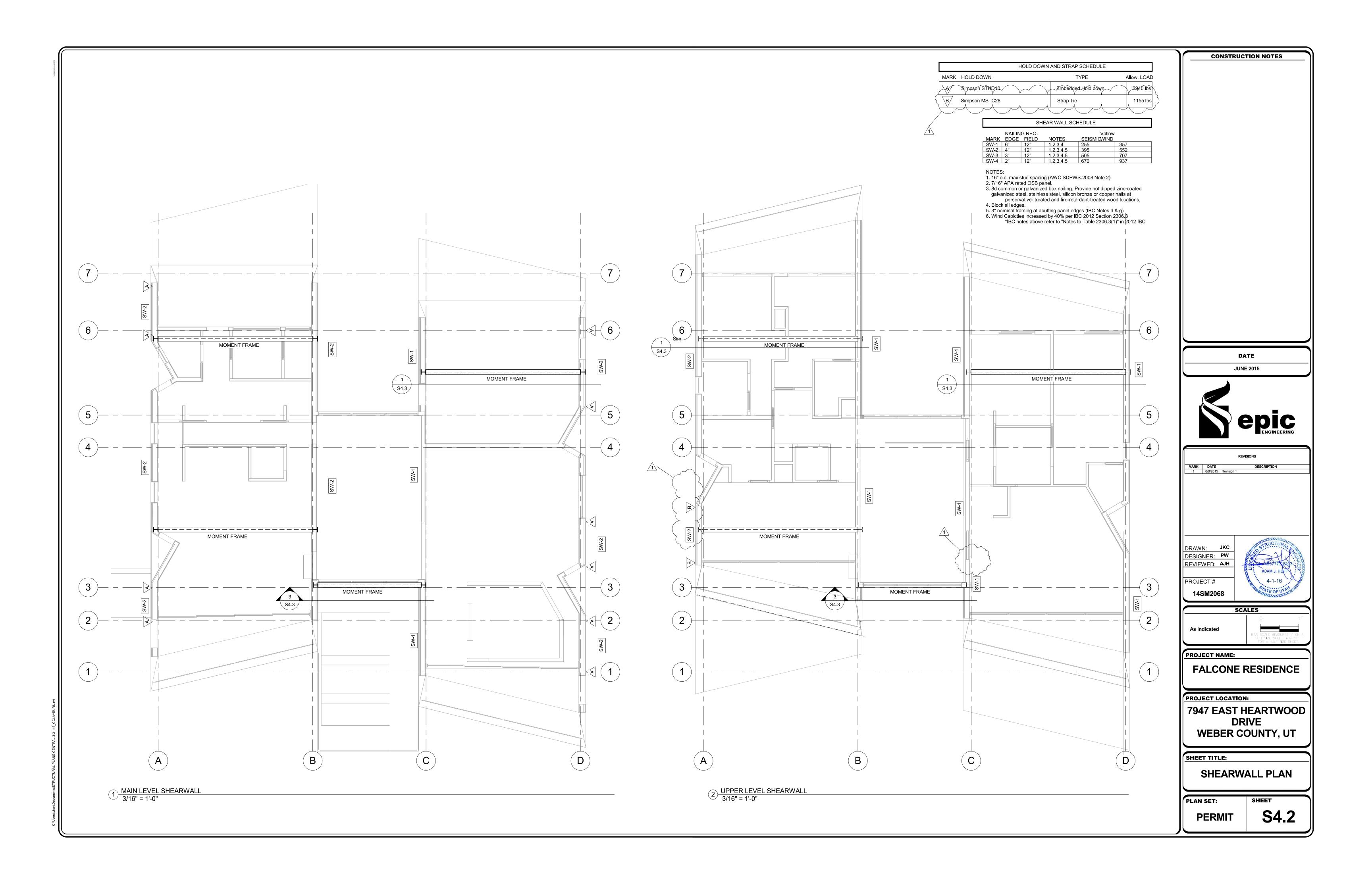
**SCHEDULES** 

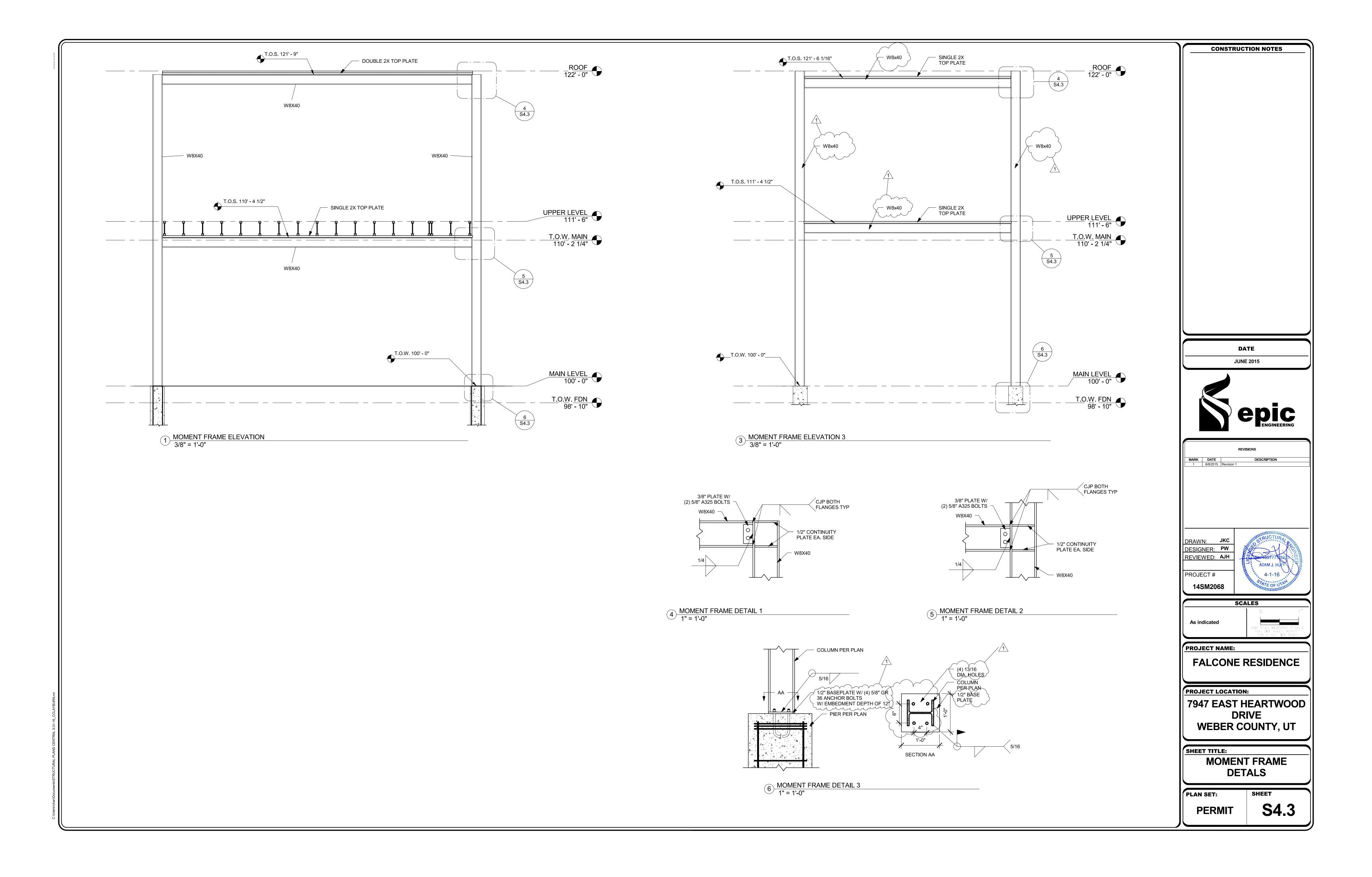
| PLAN SET: | SHEET       |
|-----------|-------------|
| PERMIT    | <b>S4.1</b> |











# & STRUCTURAL OBSERVATION ITEMS REQUIRED BY CHAPTER 17 OF THE 2012 IBC

Indicate items requiring special inspection, structural testing, or structural observations by checking the appropriate box. All items not requiring inspection/testing should be removed from the form. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases "periodic" inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task. The "Detailed Instructions & Frequency" provides a description of the presumed requirements for tasks requiring "periodic" inspections. The design professional responsible should revise the requirements as needed on a project-specific basis.

## STRUCTURAL STEEL (IBC 1705.2.1, 1705.11.1 & 1705.12.2)

Page 1 of 2

| Item   |                    |                   | Detailed Instructions and Frequencies   |  |
|--|--------------------|-------------------|---|--|
| AFTER WELDING (TABLE N5.4-3, AI                                    | SC 360-10):        |                   |   |  |
| Welds cleaned  | Continuous         | Periodic          | Verify that welds have been properly cleaned.   |  |
| Size, length, and location of welds                                | Continuous         | Periodic          |   |  |
| Welds meet visual acceptance criteria                              | Continuous         | Periodic          |   |  |
| Repair activities  | Continuous         | Neriodic Periodic |   |  |
| Document acceptance or<br>rejection of welded joint/member         | Continuous         | Periodic          |   |  |
| NONDESTRUCTIVE TESTING (SECTION                                    | ON N5.5, AISC 360  | -10):             |   |  |
| CJP welds (Risk Cat. II)   | Continuous         | Neriodic Periodic | Ultrasonic testing shall be performed on 10% of CJP groove welds in butt, T- and corner joints subject to transversely applied tension loading in materials 5/16 inch thick or greater. Testing rate must be increased if > 5% of welds tested have unacceptable defects.                                       |  |
| AFTER BOLTING (TABLE N5.6-3, AIS                                   | SC 360-10):        |                   |   |  |
| Document acceptance or<br>rejection of bolted connections          | Continuous         | Periodic          |   |  |
| OTHER STEEL INSPECTIONS (SECTION                                   | ON N5.7, AISC 360- | 10; Tables J8-1   | & J10-1, AISC 341-10):  |  |
| Structural steel details   | Continuous         | Periodic          | All fabricated steel or steel frames shall be inspected to verify compliance with the details shown in the construction documents, such as braces, stiffeners, member locations, and proper application of joint details at each connection.  |  |
| Anchor rods and other<br>embedments supporting<br>structural steel | Continuous         | Neriodic Periodic | Shall be on the premises during the placement of anchor rods and other embedments supporting structural steel for compliance with construction documents. Verify the diameter, grade, type, and length of the anchor rod or embedded item, and the extent or depth of embedment prior to placement of concrete. |  |

| Placement and installation of steel headed stud anchors | Continuous | Neriodic |  |
|---|------------|----------|--|
|---|------------|----------|--|

# **CONCRETE CONSTRUCTION (IBC 1705.3 & 1705.12.1)**

| Item                             |            |            | Detailed Instructions and Frequencies   |
|----------------------------------|------------|------------|---|
| Cast-in bolts & embeds           | Continuous | □ Periodic | Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used. |
| Post-installed anchors or dowels | Continuous | □ Periodic | All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report.                               |
| Concrete & Shotcrete placement   |            | Periodic   |   |

# Special Inspectors Shall:

- Be approved by the Building Official prior to performing any duties;
- Provide proof of licensure as a special inspector by the State of Utah for each type of inspection;
- Inspection reports are to meet the requirements of IBC 1704.2.4 and DFCM standards;
- Inspection reports are to be submitted to the code consultant, architect, DFCM project manager, and the State of Utah Building Official within 48 hours of performing inspections;
- A final inspection report shall be submitted following completion of the project documenting the types of special
  inspections performed and a statement indicating that the structure is in compliance with the approved construction
  documents and applicable codes (see IBC 1704.2.4).

**DATE**JUNE 2015

**CONSTRUCTION NOTES** 



|      |          | REVISIONS   |
|------|----------|-------------|
| MARK | DATE     | DESCRIPTION |
| 1    | 6/8/2015 | Revision 1  |

DRAWN: JKC
DESIGNER: PW
REVIEWED: AJH

14SM2068

SCALES

PROJECT NAME:

**FALCONE RESIDENCE** 

PROJECT LOCATION:

7947 EAST HEARTWOOD DRIVE WEBER COUNTY, UT

SHEET TITLE:

SPECIAL INSPECTIONS

PERMIT

**S5.0** 

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