

STRUCTURAL SPECIFICATIONS & NOTES:

SPECIFICATIONS SET FORTH IN THESE DOCUMENTS OUTLINE THE STRUCTURAL DESIGN REQUIREMENTS FOR CONVERSION OF AN EXISTING BARN/ AGRICULTURAL STRUCTURE TO A NEW RESIDENCE FOR:

THE CRISTENSEN RESIDENCE
38625 ROLLING HILLS LANE
ROUTT COUNTY, COLORADO

THESE SPECIFICATIONS OUTLINE THE OVERALL LAYOUT OF THE STRUCTURAL SYSTEMS, IDENTIFY THE COMPONENTS REQUIRED TO ASSEMBLE THE STRUCTURAL SYSTEMS, AND DETAIL THE ASSEMBLIES OF THESE STRUCTURAL SYSTEMS. THESE DOCUMENTS ARE SPECIFIC TO THIS PROJECT.

0.0 GENERAL NOTES

- 0.1 APPLICABLE CODES & STANDARDS:
- 0.1.1 INTERNATIONAL BUILDING CODE (IBC) 2003 EDITION
 - 0.1.2 AISC "ASD MANUAL OF STEEL CONSTRUCTION" - 4TH EDITION
 - 0.1.3 ACI 318-02 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
 - 0.1.4 ACI 530-99 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
 - 0.1.5 MIA "REINFORCED MASONRY ENGINEERING HANDBOOK 5TH EDITION"
 - 0.1.6 NDS-2001 "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION"
- 0.2 CONTRACTOR'S RESPONSIBILITIES:
- 0.2.1 ADHERENCE TO THESE SPECIFICATIONS AND ALL APPLICABLE GOVERNING CODES IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
 - 0.2.2 WHEN DIFFERENCES EXIST BETWEEN THESE SPECIFICATIONS AND ANY OTHER GOVERNING CODE, THE MORE STRINGENT SHALL CONTROL.
 - 0.2.3 ANY OTHER ITEMS NOT COVERED THEREIN, SHALL BE COMMENSURATE WITH GOOD ENGINEERING PRACTICE.
 - 0.2.4 THE CONTRACTOR IS RESPONSIBLE FOR SETTING AND MAINTAINING CONSTRUCTION PRACTICES, TECHNIQUES AND PROCEDURES, WHICH ADHERE TO ESTABLISHED INDUSTRY STANDARDS.
 - 0.2.5 THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IF A CONFLICT ARISES DUE TO VARIATIONS OR DISCREPANCIES WITHIN THESE CONSTRUCTION DOCUMENTS.
 - 0.2.6 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION - DO NOT SCALE DRAWINGS
 - 0.2.7 OBSERVATIONS OF THE JOB SITE BY THE STRUCTURAL ENGINEER, OTHER THAN SPECIFIC REQUIRED INSPECTIONS, ARE NOT CONSIDERED CONSTRUCTION APPROVALS.
 - 0.2.8 STRUCTURAL CONSTRUCTION DOCUMENTS RELEASED BY ERS CONSULTANTS, LLC ARE PRESUMED TO BE COMPLETE AND ACCURATE, YET PROBLEMS MAY ARISE DURING CONSTRUCTION. COMMUNICATION WITH THE GENERAL CONTRACTOR, ARCHITECT AND OTHER PARTIES INVOLVED WITH THIS PROJECT WILL PROVIDE THE BEST POSSIBLE STRUCTURE.

0.3 STRUCTURAL DESIGN CRITERIA:

0.3.1	ROOF LIVE LOAD (SNOW)	60 PSF
0.3.2	ROOF DEAD LOAD	20 PSF
0.3.3	EXT. DECK LIVE LOAD	60 PSF (75 PSF SNOW)
0.3.4	EXT. DECK DEAD LOAD	N/A
0.3.5	INT. FLOOR LIVE LOAD	40 PSF (30 PSF SLEEPING AREAS)
0.3.6	INT. FLOOR DEAD LOAD	20 PSF
0.3.7	WIND SPEED	90 MPH, EXPOSURE B
0.3.8	SEISMIC DESIGN	ZONE B, SITE CLASS D
0.3.9	EQUIVALENT FLUID PRESS.	35 PCF (IMPORTED FREE DRAINING BACKFILL)

STANDARD ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR	E.F.	EACH FACE	P.T.	PRESSURE TREATED
ADD'L.	ADDITIONAL	E.J.	EXPANSION JOINT	REINF.	REINFORCEMENT
ADJ.	ADJACENT	EQ.	EQUAL	SCHED.	SCHEDULE
ALT.	ALTERNATE	EL.	ELEVATION	S.O.G.	SLAB ON GRADE
B.O.M.	BOTTOM OF WALL	E.S.	EACH SIDE	STL.	STEEL
B.L.	BUILDING LINE	E.M.	EACH WAY	T.	TRUSS
C.J.	CONTROL JOINT	EXIST.	EXISTING	T & B	TOP AND BOTTOM
CL.	CENTERLINE	F.F.	FINISHED FLOOR	T & G	TONGUE AND GROOVE
CLR.	CLEAR	FND.	FOUNDATION	T.O.B.	TOP OF BEAM
CTR.	CENTER	GA.	GAUGE	T.O.C.	TOP OF CONCRETE
COL.	COLUMN	G.T.	GIRDER TRUSS	T.O.P.	TOP OF PIER
COLUMN (N)	NEW COLUMN	LT. GA.	LIGHT GAUGE	T.O.S.	TOP OF STEEL
COLUMN (E)	EXISTING COLUMN	MIN.	MINIMUM	T.O.W.	TOP OF WALL
CONC.	CONCRETE	MAX.	MAXIMUM	T.S.	TUBE STEEL COLUMN
Ø	DIAMETER	O.C.	ON CENTER	U.N.O.	UNLESS NOTED OTHERWISE
E.C.	EACH CORNER	PL	PLATE	W.M.F.	WELDED WIRE FABRIC

1.0 SPREAD FOOTING FOUNDATION SPECIFICATIONS:

THIS FOUNDATION HAS BEEN DESIGNED BASED UPON MINIMUM REQUIREMENTS SET FORTH IN THE 2003 INTERNATIONAL BUILDING CODE

1.1 FOUNDATION REQUIREMENTS:

- 1.1.1 THE FOUNDATION SHALL BE CONVENTIONAL SPREAD FOOTINGS WITH A MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
- 1.1.2 ALL ORGANIC TOPSOIL AND FILL MATERIAL SHALL BE REMOVED AND FOOTINGS SHALL BE FOUNDED ON UNDISTURBED NATURAL CLAYS OR PROPERLY COMPACTED FILL WITH MINIMUM FROST PROTECTION OF 48" BELOW FINAL GRADE.
- 1.1.3 ALL LOOSE OR SOFT POCKETS OF SOIL WITHIN THE LOADED WIDTH OF THE FOOTING SHOULD BE REMOVED AND REPLACED WITH WELL COMPACTED GRAVELS, OR THE FOOTING SHALL BE EXTENDED TO LOWER, MORE COMPETENT BEARING SOILS
- 1.1.4 DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL ALL SUPPORTING FLOORS & SLABS HAVE BEEN INSTALLED.
- 1.1.5 THE BUILDER AND OWNER SHOULD BE MADE AWARE OF THE CHANCE OF MOVEMENT AND CRACKING OF CONCRETE SLABS PLACED DIRECTLY ON COMPACTED SOIL.
- 1.1.6 THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- 1.1.7 ISOLATE ALL DOOR JAMBS FROM FLOOR SLABS A MINIMUM OF 1/2" VERTICALLY TO ALLOW FOR POSSIBLE MOVEMENT. USE SILICONE OR SIMILAR MATERIAL TO FILL THE RESULTANT GAP.

1.2 REINFORCED CONCRETE SPECIFICATIONS:

- 1.2.1 ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE "ACI MANUAL OF CONCRETE PRACTICE", LATEST EDITION.
- 1.2.2 CONCRETE SHALL DEVELOP 28 DAY COMPRESSIVE STRENGTH ACCORDING TO THE FOLLOWING:
FOOTINGS, WALLS 3000 PSI
FLATWORK 4,000 PSI
ALL OTHER CONC. 3,000 PSI
- 1.2.6 CONCRETE SHALL BE PROPORTIONED USING TYPE I OR II CEMENT, ALTHOUGH TYPE II IS RECOMMENDED. ADMIXTURES CONTAINING CHLORIDE SALTS SHALL NOT BE USED.
- 1.2.7 COLD WEATHER PROCEDURES FOR CONCRETE, AS OUTLINED IN THE ACI MANUAL OF CONCRETE PRACTICE, SHALL BE FOLLOWED IF APPROPRIATE.
- 1.2.8 ALL CONCRETE WORK EXPOSED TO FREEZE-THAW ACTION SHALL BE AIR-ENTRAINED.
- 1.2.9 U.N.O. CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
1.2.9.1 CONCRETE CAST AGAINST & PERMANENTLY EXPOSED TO EARTH - 3"
1.2.9.2 CONCRETE EXPOSED TO EARTH OR WEATHER:
#5 BAR & SMALLER - 1 1/2"
#6 BAR & LARGER - 2"

1.3 REINFORCEMENT SPECIFICATIONS.

- 1.3.1 ALL REINFORCING STEEL SHALL CONFORM TO ASTM 615, GRADE 60.
- 1.3.2 REINFORCEMENT @ SMALL OPENINGS (1'-6" MAX) IN WALLS AND SLABS MAY BE SPREAD APART NOT MORE THAN 1.5 TIMES THE BAR SPACING.
- 1.3.3 REINFORCEMENT MAY BE ADJUSTED Laterally TO MAINTAIN A CLEAR DISTANCE OF AT LEAST 1" BETWEEN THE REINFORCEMENT AND KEYS, WATERSTOPS, ANCHOR BOLTS, FORM TIES, CONDUITS AND OTHER EMBEDDED MATERIALS.
- 1.3.4 REINFORCEMENT PARALLEL TO ANCHOR BOLTS OR OTHER EMBEDDED MATERIAL SHALL BE PLACED TO MAINTAIN A CLEAR DISTANCE OF AT LEAST 1.33 TIMES THE MAXIMUM SIZE AGGREGATE.

- 1.3.5 REINF. DIMENSIONS - ARE TO THE CENTERLINE OF BARS EXCEPT FOR EMBEDMENT OF HOOKS, WHICH ARE DIMENSIONED TO THE OUTSIDE OF THE BAR.
CLEAR COVER DIMENSIONS ARE MARKED "CLR."
- 1.3.6 SPACING - FIRST & LAST BARS IN WALLS AND SLABS, STIRRUPS IN BEAMS, AND TIES IN COLUMNS ARE TO START AND END AT A MAXIMUM OF ONE HALF OF THE ADJACENT BAR SPACING. REFER TO TABLES THIS SHEET FOR MINIMUM BAR SPACING.
- 1.3.7 SPLICES:

- 1.3.7.1 U.N.O. THE MINIMUM LENGTH OF LAP FOR SPLICING PARALLEL BARS SHALL BE AS GIVEN IN THE FOLLOWING TABLES.
- 1.3.7.2 STAGGERED SPLICES SHALL BE SEPARATED TO GIVE 12" CLEAR BETWEEN ENDS OF ADJACENT SPLICES.
- 1.3.7.3 BARS SPLICED BY NON-CONTACT LAP SPLICES SHALL NOT BE SPACED TRANSVERSELY FURTHER APART THAN ONE-FIFTH THE REQUIRED LAP SPlice LENGTH, NOR 6" ON CENTER.
- 1.3.7.4 WHEN REINFORCING OF DIFFERENT SIZES ARE TO BE SPLICED, THE LENGTH OF LAP SHALL BE GOVERNED BY THE SMALLER DIAMETER BAR.
- 1.3.7.5 SPLICES ARE TO BE MADE SUCH THAT THE REQUIRED CLEAR DISTANCES TO FACE OF CONCRETE WILL BE MAINTAINED.

Fc = 3000 psi		TABLE 3 - 60		Fy = 60,000 psi	
BAR SIZE NO.	MINIMUM <to< BAR SPACING (INCHES)	LENGTH OF LAPPED SPLICE (INCHES)	DEVELOPMENT LENGTH ld (INCHES)	TOP BARS *	OTHER BARS
3	1 1/4"	24	22	22	17
4	1 3/4"	30	24	24	22
5	2"	40	31	31	28
6	2 1/2"	56	43	43	33
7	2 3/4"	82	63	63	48
8	3 1/4"	94	72	72	55
9	3 3/4"	104	81	81	62
10	4"	116	90	90	69
11	4 1/4"	128	99	99	76

Fc = 4000 psi		TABLE 4 - 60		Fy = 60,000 psi	
BAR SIZE NO.	MINIMUM <to< BAR SPACING (INCHES)	LENGTH OF LAPPED SPLICE (INCHES)	DEVELOPMENT LENGTH ld (INCHES)	TOP BARS *	OTHER BARS
3	1 1/4"	25	20	20	15
4	1 3/4"	33	25	25	19
5	2"	41	32	32	24
6	2 1/2"	48	38	38	29
7	2 3/4"	71	55	55	42
8	3 1/4"	81	63	63	48
9	3 3/4"	91	71	71	54
10	4"	100	78	78	60
11	4 1/4"	111	85	85	65

* TOP BARS ARE ALL HORIZONTAL BARS SO PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPLICE.

1.3.8 STANDARD HOOKS:

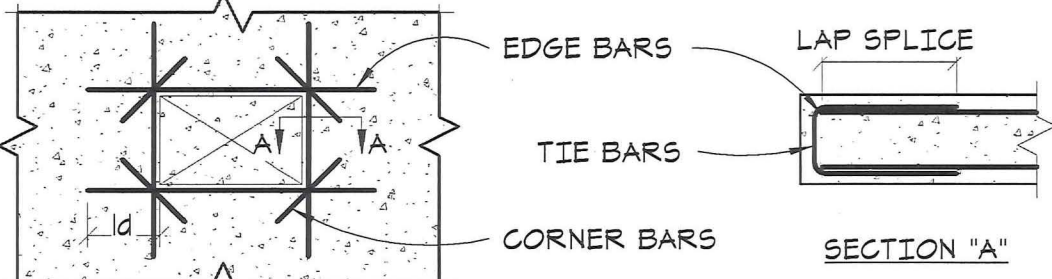
- 1.3.8.1 180-DEGREE BEND PLUS 4db EXTENSION, BUT NOT LESS THAN 2" AT THE FREE END OF THE BAR.
- 1.3.8.2 90-DEGREE BEND PLUS 12db EXTENSION AT THE FREE END OF THE BAR.

1.3.9 STIRRUP AND TIE HOOKS:

- 1.3.9.1 #5 BAR AND SMALLER, 90-DEGREE BEND PLUS 6db EXTENSION AT THE FREE END OF THE BAR.
- 1.3.9.2 #6 THROUGH #8 BARS, 90-DEGREE BEND PLUS 12db EXTENSION AT THE FREE END OF THE BAR.
- 1.3.9.3 #8 BARS AND SMALLER, 135 DEGREE BEND PLUS 6db EXTENSION AT THE FREE END OF THE BAR.

The image displays three diagrams of pin connections at different angles: 90°, 135°, and 180°. Each diagram shows a pin passing through a plate, with labels for 'Pin diameter (Typ.)' and 'Extension'.

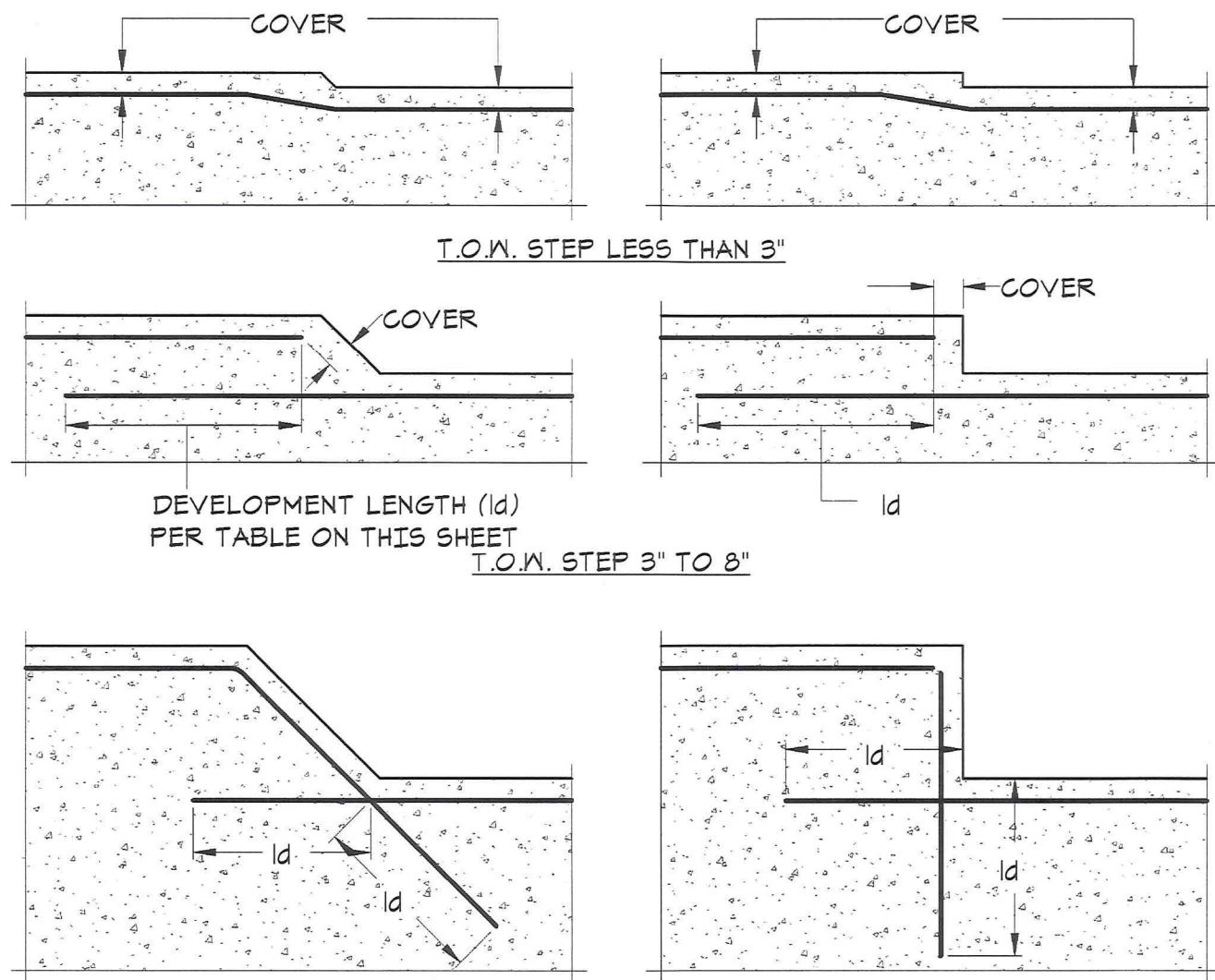
- 90°:** The pin is perpendicular to the plate. The extension is the length of the pin protruding from the plate.
- 135°:** The pin is at a 135-degree angle to the plate. The extension is the length of the pin protruding from the plate.
- 180°:** The pin is parallel to the plate. The extension is the length of the pin protruding from the plate.



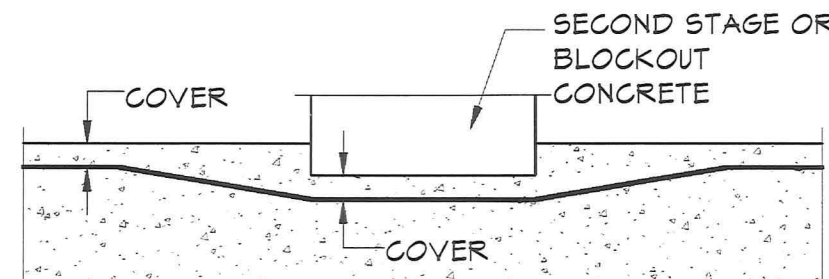
ADD'L REINFORCEMENT AROUND OPENINGS

MEMBER THICKNESS	TIE BARS	EDGE BARS	CORNER BARS
Less than 10	None	1 - clr.	1 - #4 clr.
10 thru 1-6	None	2 - (1 ef)	2 - #4 (1 ef)
1-7 thru 3-0	#4 @ 1-0	3 - eq. spc.	4 - #4 (2 ef)
Over 3-0	#6 @ 1-0	Spc. @ 1-0	4 - #5 (2 ef)

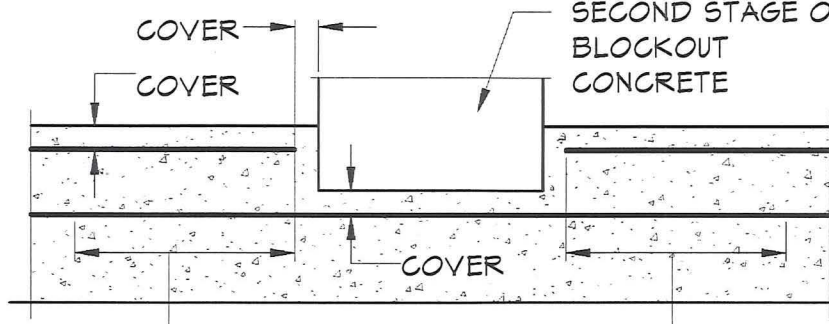
- OMIT CORNER BARS AT SIDES OF OPENINGS ADJACENT TO FLOORS, WALLS, OR BEAMS.
- USE CORNER BARS IN FACE OF RECESSES DEEPER THAN 4" IF EITHER DIMENSION OF RECESS IS GREATER THAN 1'-6"



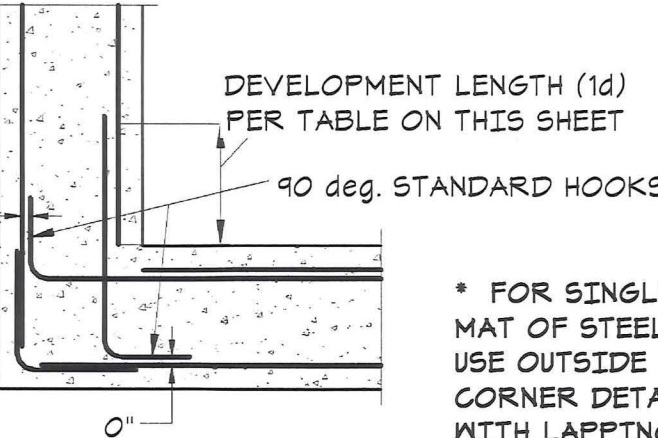
T.O.W. STEP GREATER THAN 8" TYPICAL T.O. WALL STEP DETAILS



RECESSED SLAB 3" DEEP OR LESS

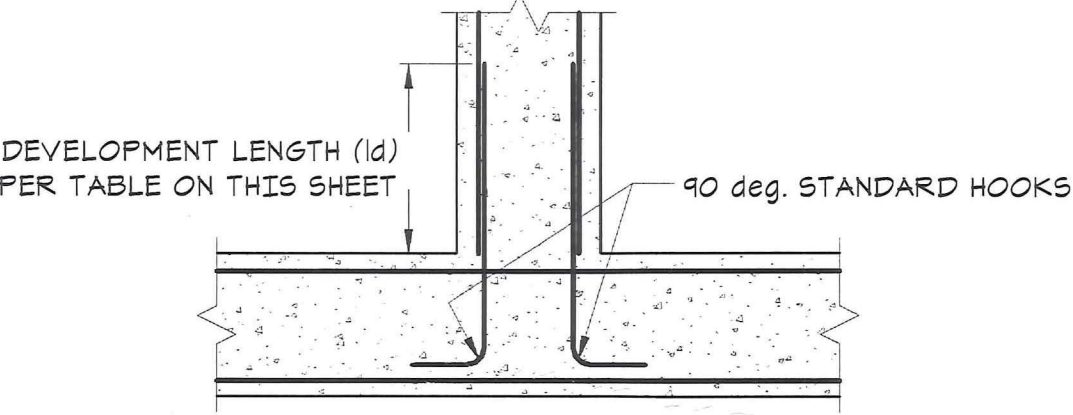


RECESSED SLAB GREATER THAN 3" DEEP TYPICAL RECESSED SLAB DETAILS



TYPICAL CORNER DETAIL

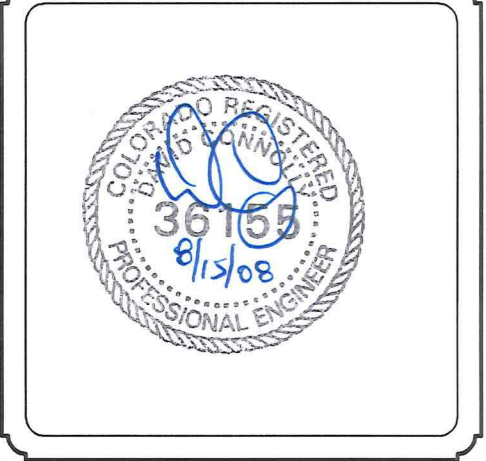
* FOR SINGLE MAT OF STEEL, USE OUTSIDE CORNER DETAIL WITH LAPPING CORNER BAR.



TYPICAL INTERSECTION DETAIL



THESE DRAWINGS DO NOT INCLUDE REQUIREMENTS FOR CONSTRUCTION SAFETY



CRISTENSEN RESIDENCE
38625 ROLLING HILLS LN.
ROUTT COUNTY, COLORADO

PROJECT #: 08016
DRAWN BY: SG
CHECKED BY: DC
ISSUE: DATE:
PERMIT SET 8/15/08

R C R B D
Record Set

GENERAL NOTES
S-0

REVIEWED
FOR
CODE
COMPLIANCE
10/18/2022

2.0 STRUCTURAL STEEL SPECIFICATIONS:

ALL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE.

2.1 MATERIAL STRENGTH:

- 2.1.1 ROLLED SHAPES SHALL BE ASTM A572 GRADE 50.
2.1.2 TUBE STEEL COLUMNS SHALL BE ASTM A500 GRADE B 46 KSI.
2.1.3 PLATES & ANGLES SHALL BE ASTM A36 GRADE 36

2.2 BOLTED STRUCTURAL CONNECTIONS:

- 2.2.1 UNLESS SPECIFICALLY NOTED OTHERWISE, ALL BOLTS, INCLUDING ANCHOR BOLTS, USED IN STRUCTURAL APPLICATIONS SHALL MEET ASTM SPECIFICATION A307.
2.2.2 ALL ANCHOR BOLTS CAST INTO CONC. SHALL BE HOT DIP GALVANIZED.
2.2.3 EXPANSION ANCHORS SHALL BE CARBON STEEL "RED HEAD TRUBOLT", "HILTI KWIK BOLT II" OR APPROVED EQUAL.
2.2.4 UNLESS NOTED OTHERWISE, EXPANSION ANCHORS SHALL HAVE THE FOLLOWING MINIMUM EMBEDMENT, SPACING & EDGE DIST.:
1/2"Ø - 2½" EMBEDMENT, 8" SPACING, 4" EDGE
5/8"Ø - 3" EMBEDMENT, 10" SPACING, 5" EDGE
3/4"Ø - 4" EMBEDMENT, 11" SPACING, 6" EDGE
CONSULT ENGINEER IF ALTERNATIVES ARE REQ'D

2.3 WELDED STRUCTURAL CONNECTIONS:

- 2.3.1 ALL WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER.
2.3.2 ALL FILLET WELDS INDICATED ON THE PLANS SHALL BE OF E70XX ELECTRODES & SHALL BE THE MINIMUM SIZE SPECIFIED IN THE AISC MANUAL OF STEEL CONSTRUCTION, TABLE J2.4.

3.0 MASONRY & STONE VENEER SPECIFICATIONS:

ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530-95, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.

3.1 MATERIAL STRENGTH:

- 2.1.1 C.M.U. BLOCK MASONRY SHALL CONFORM TO ASTM C90, GRADE N AND SHALL HAVE 1500 PSI COMPRESSIVE STRENGTH MIN.
2.1.2 MORTAR SHALL BE TYPE M OR S

3.2 GENERAL MASONRY NOTES:

- 3.2.1 C.M.U. WALLS SHALL BE REINFORCED HORIZONTALLY @ 16" O.C. WITH LADDER OR TRUSS TYPE REINFORCEMENT CONFORMING TO ASTM A82
3.2.2 WHERE REINFORCING STEEL IS INDICATED VERTICALLY, CORES SHALL BE FULLY GROUTED WITH 3,000 PSI GROUT THAT MEETS ASTM C416.
3.2.3 MINIMUM VERTICAL REINFORCEMENT SHALL BE #4s @ 48" O.C.
3.2.4 C.M.U. SHALL BE ANCHORED TO THE SUPPORTING WALL W/ NO. 22 U.S. GAGE BY 1/8" CORRUGATED TIES SPACED NOT MORE THAN 24" HOR. AND VERT.
3.2.5 STONE VENEER SHALL BE ANCHORED TO THE SUPPORTING WALL W/ EITHER NO. 9 U.S. GAGE WIRE W/ A HOOD EMBEDDED IN THE MORTAR JOINT OR WITH CORRUGATED TIES PER NOTE 3.2.4
3.2.6 TIES AROUND PERIMETER OF OPENINGS SHALL BE WITHIN 12" OF OPENINGS AND SHALL BE MIN. 24" O.C.
3.2.7 IF AIR SPACE IS NOT PROVIDED, A WEATHER RESISTANT MEMBRANE IS REQUIRED OVER WOOD FRAMING.
3.2.8 STONE VENEER ABOVE OPENINGS OR ON STEEL ANGLE SHALL BE SUPPORTED ON A 16x4x5/16" STEEL ANGLE (LONG LEG VERT.) LINTEL ATTACHED TO THE WALL OR HEADER W/ (2)-½"Øx4" LAG SCREWS @ 16" O.C. OR ¾"Ø EXP. ANCHORS TO CONC. @ 24" O.C. 3½" EMBED.

4.0 WOOD FRAMING SPECIFICATIONS:

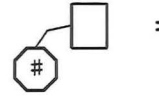

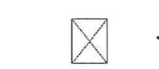
4.1 FRAMING MATERIALS:

- 4.1.1 ALL 2x FRAMING & HEADERS SHALL BE DOUG-FIR #2 OR BETTER U.N.O.
4.1.2 TIMBER BEAMS AND POSTS WIDER THAN 3" SHALL BE DOUG-FIR #1 OR BETTER U.N.O.
4.1.3 ALL WOOD FRAMING IN DIRECT CONTACT WITH CONCRETE SHALL BE TREATED FOR DECAY RESISTANCE.
4.1.4 STRUCTURAL LUMBER EXPOSED TO WEATHER OR WITHIN 8" OF EXPOSED GROUND SHALL BE TREATED FOR DECAY RESISTANCE.
4.1.5 ENGINEERED LUMBER PRODUCTS SPECIFIED SHALL BE MANUFACTURED BY "TRUSS JOIST" AND SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER OF RECORD.
4.1.6 GLU-LAM BEAMS SHALL BE ARCHITECTURAL APPEARANCE GRADE DF/DF AND SHALL BE 24F-V4 (1 SPAN) OR 24F-V8 (2+ SPAN) U.N.O.
4.1.7 METAL FRAMING HANGERS, CLIPS, ETC. TO BE MANUFACTURED BY "SIMPSON STRONG TIE" AND SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER OF RECORD.

4.2 STANDARD FRAMING NOTES:

- 4.2.1 UNLESS NOTED OTHERWISE, ALL EXTERIOR WALLS SHALL BE CONSTRUCTED WITH 2x6 D.F. #2 STUDS @ 16" O.C.
4.2.2 PROVIDE 7/16" APA RATED 32/16, EXPOSURE 1 OSB OR PLY. SHEATHING ON THE EXTERIOR FACE OF ALL EXTERIOR FRAMED WALLS. REFER TO SHEAR WALL NOTES FOR NAILING AND BLOCKING REQUIREMENTS. (NOT APPLICABLE)
4.2.3 INTERIOR WALLS SHALL BE CONSTRUCTED WITH 2x STUDS @ 16" O.C. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF 2x4 OR 2x6 WALLS.
4.2.4 UNLESS NOTED OTHERWISE, ALL HEADERS DESIGNATED ON THE PLANS SHALL BE (2)-2x10s MIN.
4.2.5 INSTALL DOUBLE TOP PLATES TO PROVIDE OVERLAPPING CORNERS & 4'-0" MIN. LAP AT SPLICES. PROVIDE SIMPSON CS16x2'-0" @ ALL PLATE BREAKS.
4.2.6 INSTALL 1½"xFLOOR DEPTH TIMBERSTRAND LSL RIMBOARD PER MANUFACTURERS SPECIFICATIONS.
4.2.7 CROSS BRACING OF FLOOR JOISTS IS REQUIRED AT 8'-0" O.C. IF CEILING SHEETROCK IS NOT APPLIED DIRECTLY TO BOTTOM OF JOISTS.
4.2.8 U.N.O. FLOOR OR ROOF FRAMING MEMBERS MAY BEAR MID-SPAN BETWEEN 2x6 STUDS W/O ADD'L REINF. IF DBL. 2x6 TOP PLATES ARE INSTALLED. 2x4 STUD WALLS DO REQUIRE AN ADD'L REINF. HDR. BLOCK FOR THESE CONDITIONS.
4.2.9 PROVIDE FULL HEIGHT SOLID BLOCKING & SIMPSON H2.5 WIND ANCHORS AT ALL TRUSS HEELS, RAFTER TAILS AND LADDER FRAME BEARING LOCATIONS.
ALT. PROVIDE FULL HT. TRUSS BLOCKING PANEL (200PLF)
4.2.10 UNLESS NOTED OTHERWISE, FLOORS SHALL BE SHEATHED W/ 19/32" T&G APA RATED 20" O.C. STURDI-FLOOR. PROVIDE CONSTRUCTION ADHESIVE @ JOISTS & NAIL W/ 2-3/8"x.113" NAILS @ 4" O.C. EDGES & BOUNDARIES, 8" O.C. FIELD.
4.2.11 UNLESS NOTED OTHERWISE, ROOFS SHALL BE SHEATHED W/ 19/32" 40/20 APA RATED, EXP. 1 SHEATHING. NAIL W/ 2-3/8"x.113" NAILS @ 4" O.C. EDGES & BOUNDARIES, 8" O.C. FIELD. (N/A)
4.2.12 MINIMUM NAILING FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED IN IBC TABLE 2304.9.1.
4.2.13 ALL MATERIAL QUANTITIES AND DIMENSIONS MUST BE VERIFIED BY THE GENERAL CONTRACTOR OR RESPECTIVE SUPPLIER.

4.3 COLUMN LEGEND & NOTES:

-  = COLUMN BELOW, (1)-2x6 U.N.O. W/ # TAG. AT WALL OPENINGS, DESIGNATES REQ'D # OF JACK STUDS FOR HEADER BEARING. PROVIDE ADD'L KING STUDS AS REQ'D. (1)-TYP., (2) FOR HEADERS GREATER THAN 6'-0" IN OVERALL LENGTH. (16 2-SPAN HEADERS W/ OVERALL LENGTH OF 6 FT. OR GREATER REQUIRE (2)-KING STUDS)
- P - DESIGNATES FULL STUD PACK/BEAM POCKET BASED ON CARRIED MEMBER WIDTH. PROVIDE ADD'L KING STUD ON EACH SIDE OF BEAM @ POCKETS
- K - KING STUD
J - JACK STUD OR TRIMMER
K.P. - KING POST
Q.P. - QUEEN POST
H.P. - HAMMER POST
K.B. - KING BEAM
-  - COLUMN ABOVE & BELOW, MATCH COL. ON LEVEL ABOVE U.N.O. W/ # TAG. PROVIDE SQUASH BLOCKING AS REQ'D THROUGH FLOOR SYSTEM TO CARRYING MEMBER BELOW.
-  - COLUMN POINT LOAD FROM ABOVE, REFER TO LEVEL ABOVE FOR SIZE. PROVIDE SQUASH BLOCKING AS REQ'D THROUGH FLOOR SYSTEM TO CARRYING MEMBER BELOW.

4.4 WALL LEGEND & NOTES:

-  - DESIGNATES BEARING WALL BELOW, SOLID BLOCK BETWEEN FRAMING TO SUPPORT BELOW.
-  - DESIGNATES BEARING WALL ABOVE, SOLID BLOCK BETWEEN FLOOR FRAMING.

4.5 SHEAR WALL SPECIFICATIONS:

-  - DESIGNATES STRUCTURAL SHEAR PANEL

4.5.1 - FRAMED SHEAR WALLS:

- 4.5.1.1 PROVIDE 7/16" OSB OR PLYWOOD SHEATHING PER 4.2.2
- 4.5.1.2 BLOCK ALL PANEL EDGES & NAIL AS FOLLOWS:
LOWER LEVEL - 8d @ 4" O.C. EDGE, 12" O.C. FIELD
MAIN LEVEL - 8d @ 4" O.C. EDGE, 12" O.C. FIELD
- 4.5.1.3 WHERE SHEAR WALLS BUTT TO CONC., FASTEN END STUD TO FACE OF CONC. W/ ½"Ø EXP. ANCHORS @ 24" O.C.



THESE DRAWINGS DO NOT INCLUDE REQUIREMENTS FOR CONSTRUCTION SAFETY



CRISTENSEN RESIDENCE
38625 ROLLING HILLS LN.
ROUTT COUNTY, COLORADO

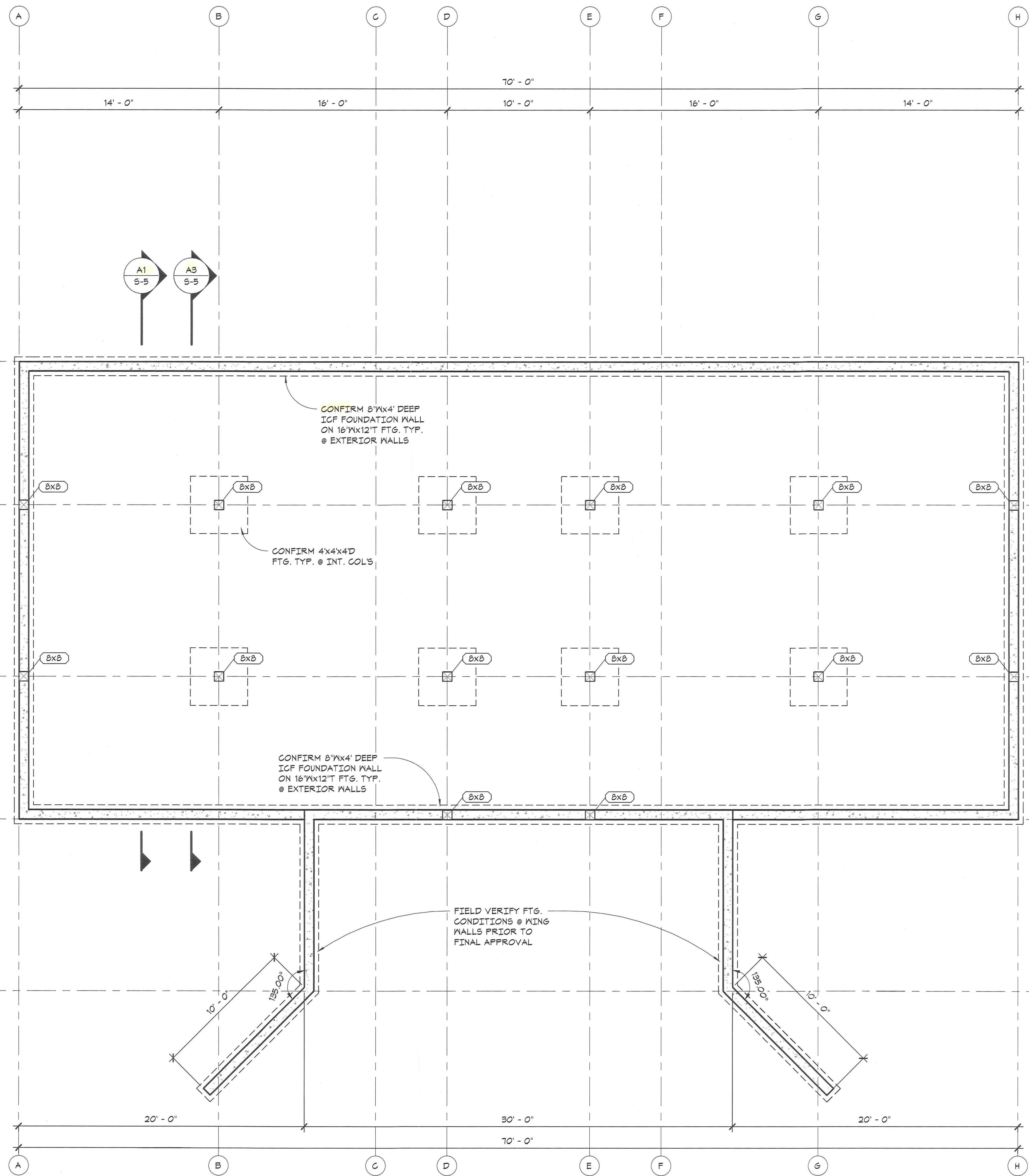
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DRAWN BY: SG
CHECKED BY: DC
ISSUE: DATE:
PERMIT SET 8/15/08

R C R B D
Record Set

GENERAL NOTES AND DETAILS

S-0.1

REVIEWED FOR CODE COMPLIANCE
10/18/2022



A1 FOUNDATION PLAN

REVIEWED
FOR
CODE
COMPLIANCE
10/18/2022



THESE DRAWINGS DO NOT INCLUDE
REQUIREMENTS
FOR CONSTRUCTION SAFETY



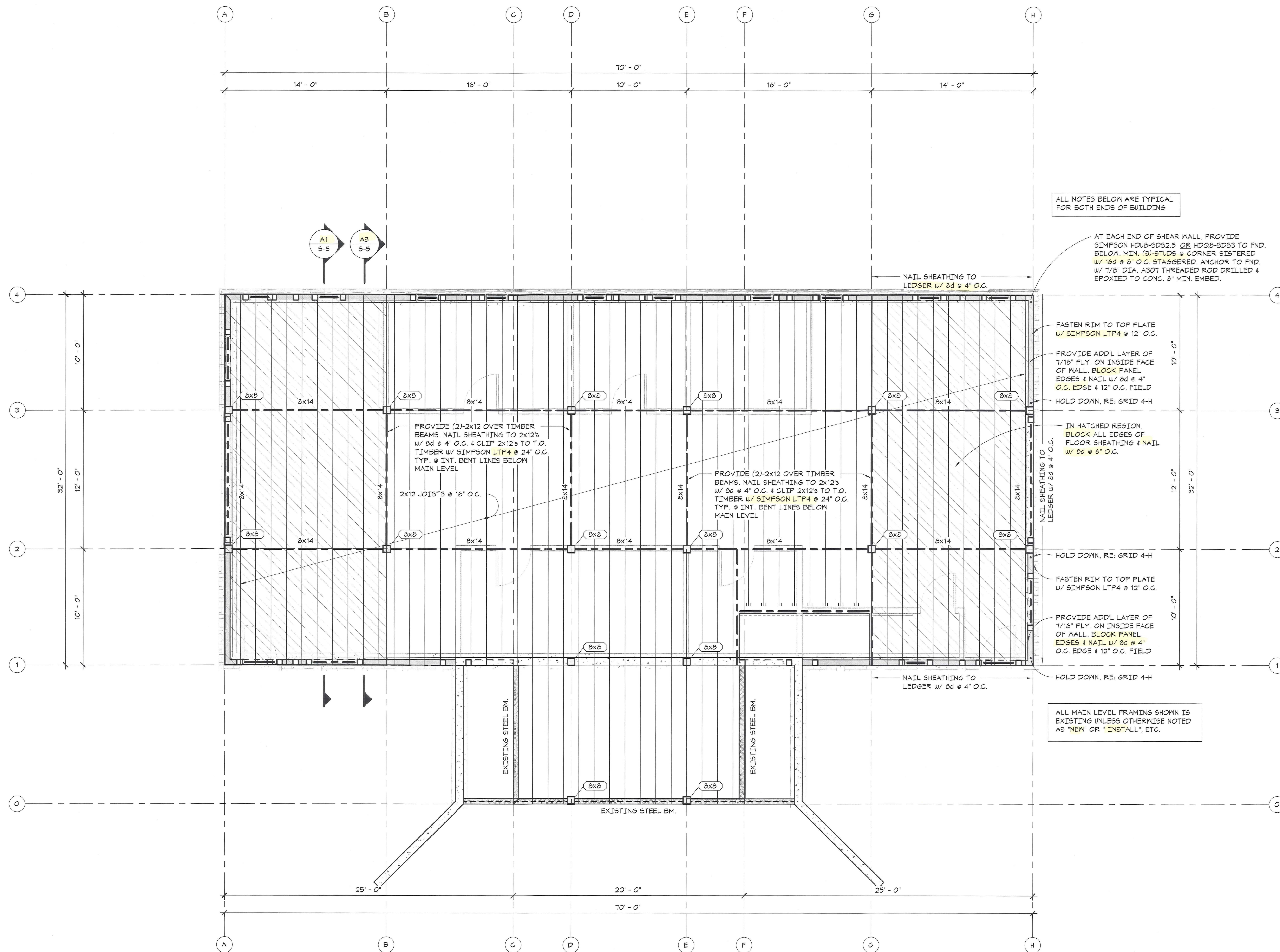
CRISTENSEN RESIDENCE
38625 ROLLING HILLS LN.
ROUTT COUNTY, COLORADO

PROJECT #: 08016
DRAWN BY: SG
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RCRBD
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FOUNDATION PLAN

S-1





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FOR CONSTRUCTION SAFETY

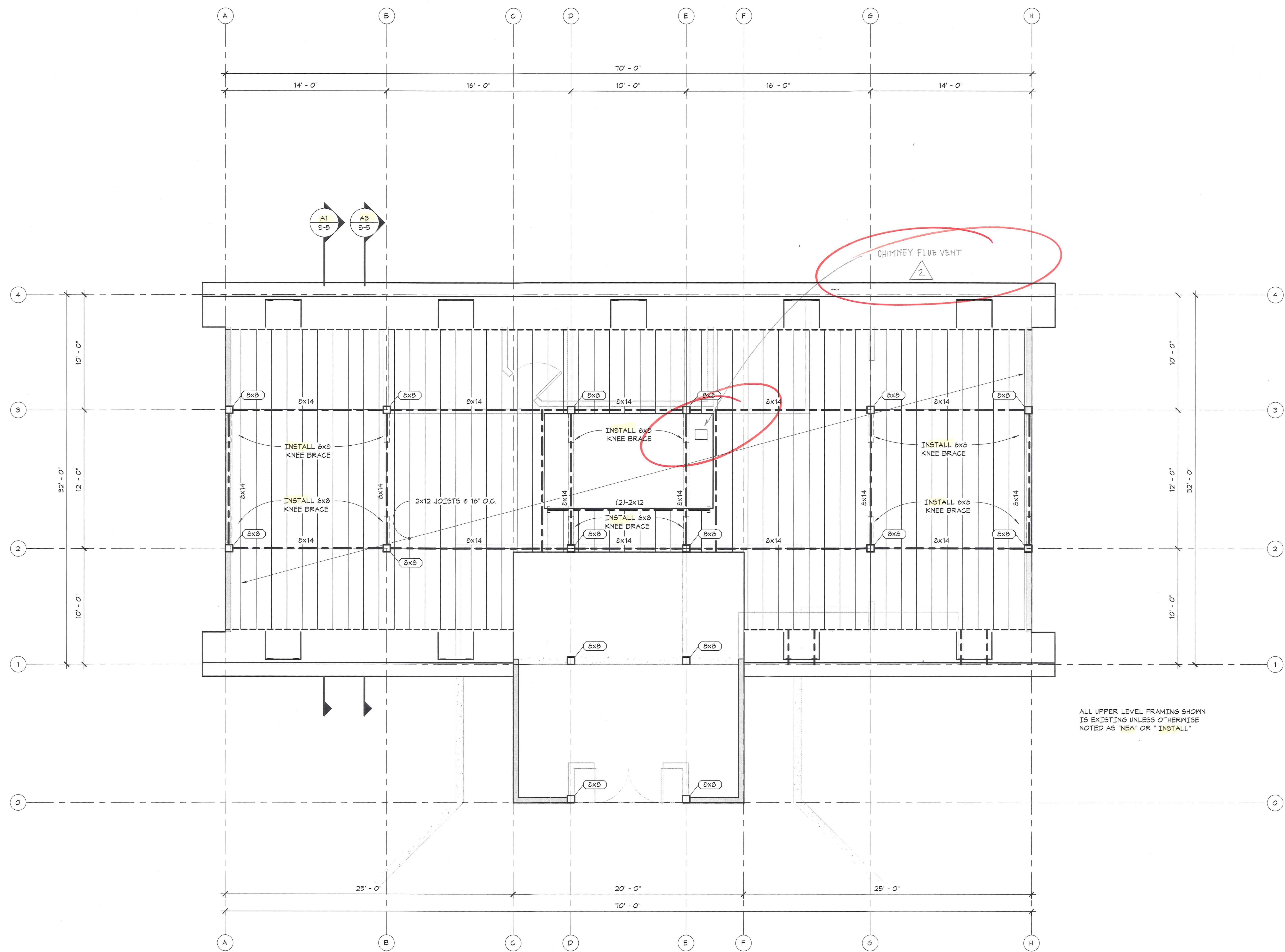


CRISTENSEN RESIDENCE
38625 ROLLING HILLS LN.
ROUTT COUNTY, COLORADO

PROJECT #: 08016
DRAWN BY: SG
CHECKED BY: DC
ISSUE: DATE:
PERMIT SET 8/15/08

UPPER FLOOR FRAMING
S-3

**REVIEWED
FOR
CODE
COMPLIANCE**
10/18/2022



A1 UPPER FLOOR FRAMING



THESE DRAWINGS DO NOT INCLUDE
REQUIREMENTS
FOR CONSTRUCTION SAFETY



CRISTENSEN RESIDENCE
38625 ROLLING HILLS LN.
ROUTT COUNTY, COLORADO

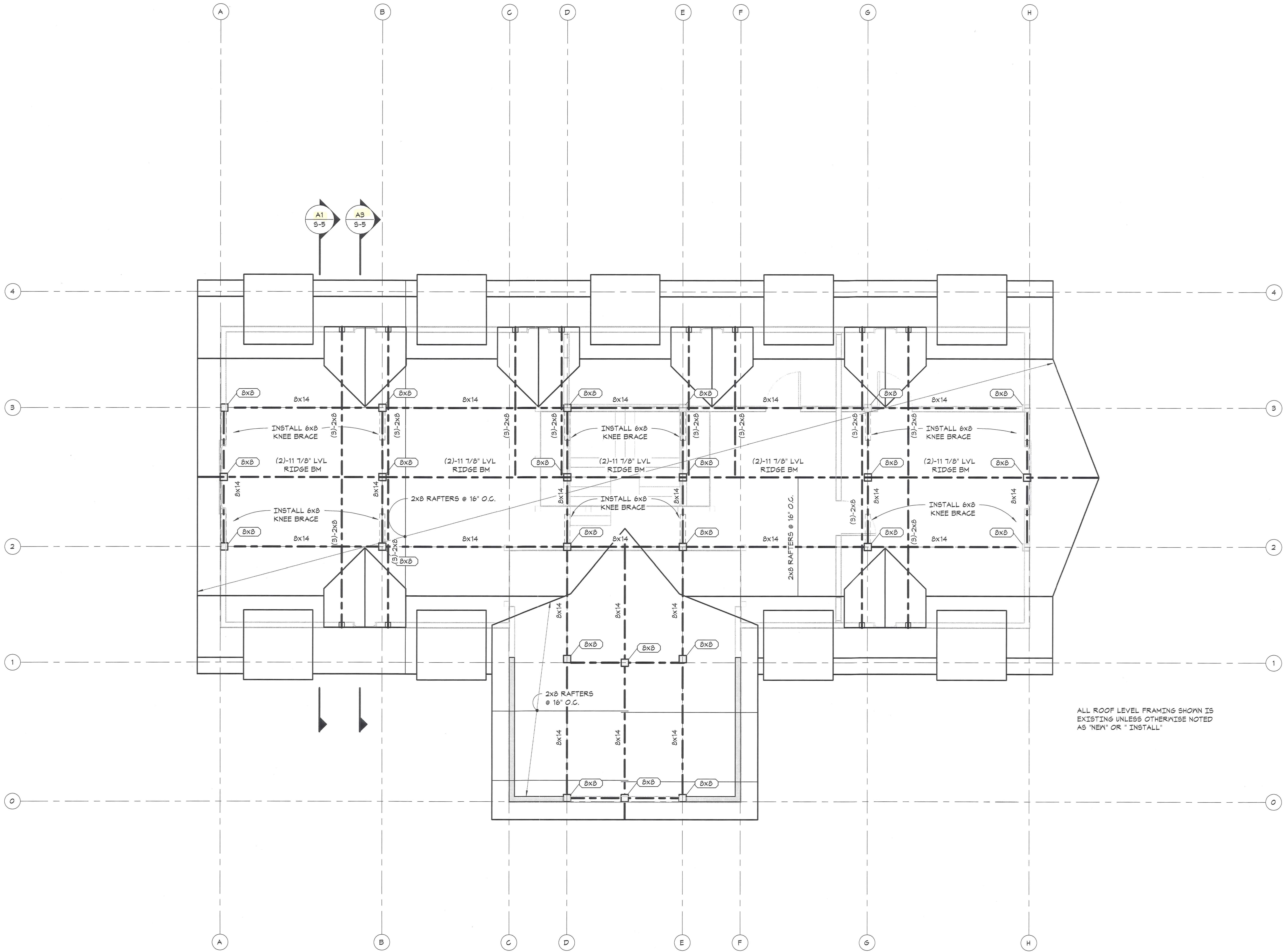
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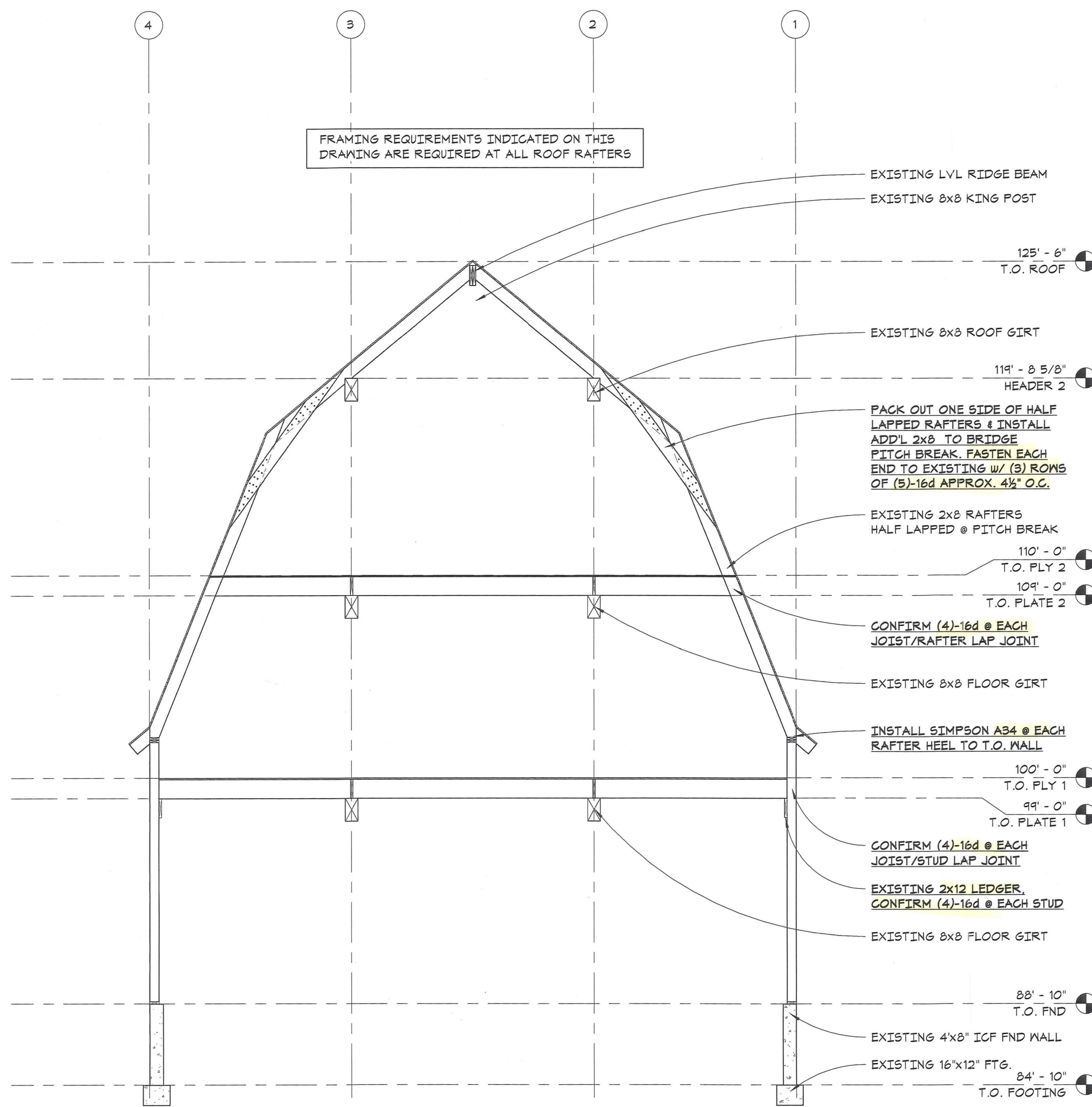
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DRAWN BY:	SG
CHECKED BY:	DC
ISSUE:	DATE:
PERMIT SET	8/15/08

ROOF FRAMING
S-4

**REVIEWED
FOR
CODE
COMPLIANCE**
10/18/2022

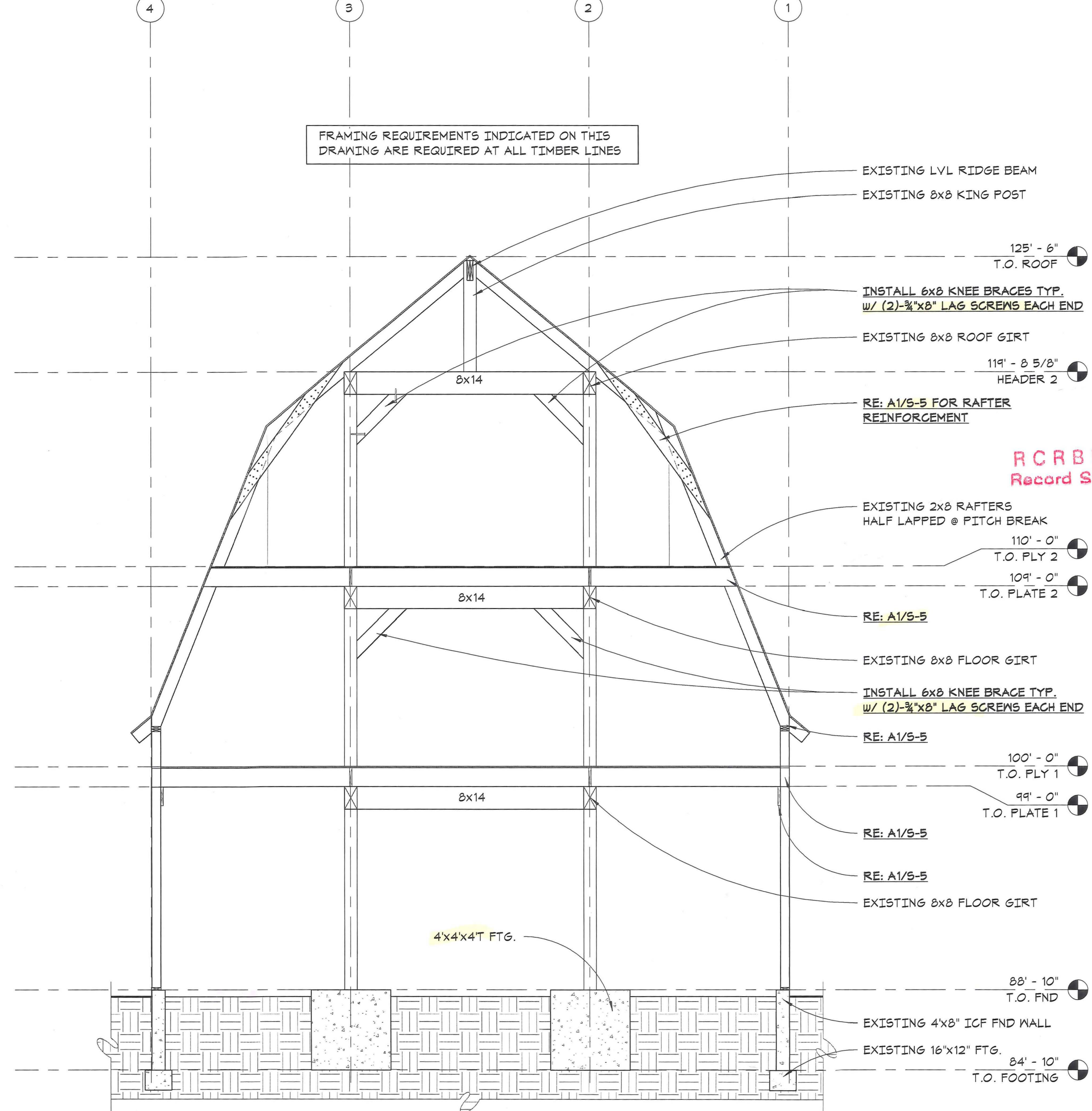
A1 ROOF





A1 TYP. FRAMING CROSS SECTION

1/4" = 1'-0"



A3 TYPICAL TIMBER ELEVATION

REVIEWED FOR CODE COMPLIANCE
10/18/2022