

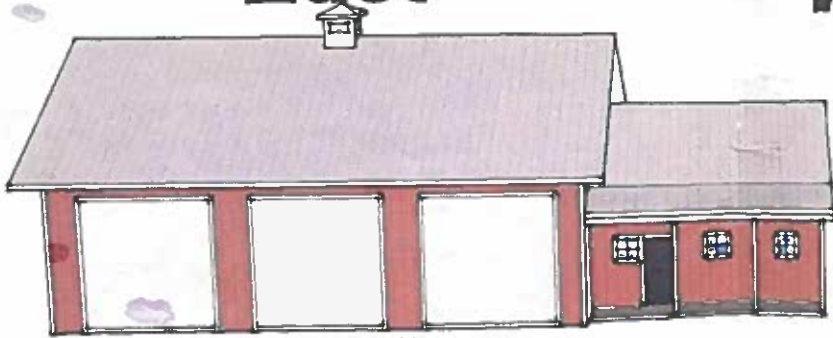
Garage
Shop



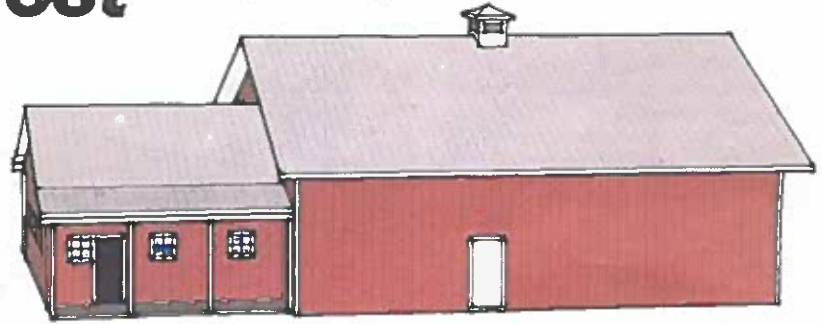
East



West



South



North

*****APPROVED*****

THESE PLANS ARE APPROVED BASED UPON THE NOTED ITEMS BEING CORRECTED. THESE APPROVED PLANS SHALL BE ON THE JOB SITE AT ALL TIMES. APPROVAL OF THESE PLANS DOES NOT GRANT APPROVAL FOR ANY DEFICIENCY OR VIOLATION OF ANY APPLICABLE CODES. COMPLIANCE WITH APPLICABLE CODES IS THE RESPONSIBILITY OF THE OWNER, OWNER'S AGENT, CONTRACTORS AND/OR WORKERS.

THE APPLICANT, RESIDENT AGENTS AND EMPLOYEES SHALL COMPLY WITH ALL THE RULES, RESTRICTIONS AND REQUIREMENTS OF THE WELD COUNTY ZONING ORDINANCE AND BUILDING CODE ORDINANCE GOVERNING DETACHED CONSTRUCTION AND ERECTION OF THE PROPOSED WORK FOR WHICH THE PERMIT IS GRANTED. THE BUILDING OFFICIAL OR RESIDENT AGENTS ARE AUTHORIZED TO ORDER THE IMMEDIATE CESSATION OF CONSTRUCTION AT ANY TIME A VIOLATION OF THE ORDINANCE APPEARS TO HAVE OCCURRED. A VIOLATION OF ANY OF THE APPLICABLE ORDINANCES MAY RESULT IN THE REVOCATION OF THE PERMIT.

BUILDINGS MUST CONFORM WITH PLANS AS SUBMITTED AND APPROVED BY THE BUILDING INSPECTION DEPARTMENT. ANY CHANGE IN THE USE OR OCCUPANCY OF A BUILDING OR STRUCTURE MUST BE APPROVED PRIOR TO PROCEEDING WITH CONSTRUCTION.

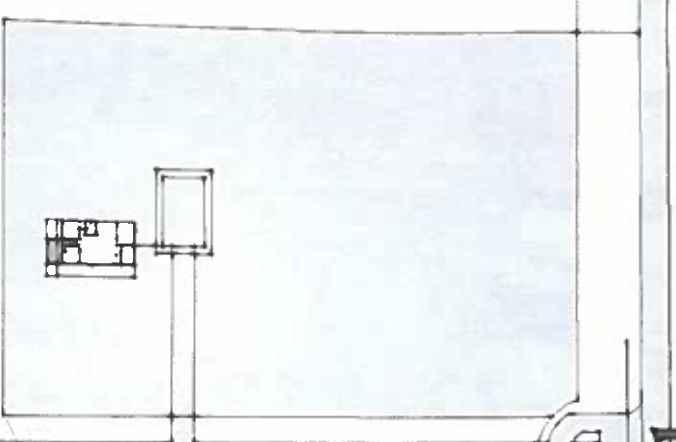
Small
DATE: 03/23/15

THIS STRUCTURE MUST CONFORM TO 2012 INTERNATIONAL RESIDENTIAL CODE

THIS STRUCTURE MUST CONFORM TO THE 2011 NATIONAL ELECTRICAL CODE

384' 7 3/4"

THIS STRUCTURE MUST CONFORM TO THE 2006 INTERNATIONAL ENERGY CONSERVATION CODE



1,907' 8"
To West Property Boundary

No Oil/Gas Production Facility within 200'

22' 4"

27' 4"

196' 6 11/16"

621' 6"

249' 7 3/4"

254' 7 3/4"

CR 41

Chris & Tamy Hirst
Plat Map for Pie Barn
303-502-7802

GENERAL NOTES

SECTION 1 - GENERAL REQUIREMENTS

BUILDING JURISDICTION: WELD COUNTY, CO
JURISDICTION'S ADOPTED CODE: IBC 2012
BUILDING DESIGN LOADS
WIND DESIGN CATEGORY: C
SEISMIC DESIGN CATEGORY: B
FLOOR LIVE LOAD: 40 PSF
FLOOR DEAD LOAD: 15 PSF

- 1.1 REFERENCES: REFERENCES ON THE STRUCTURAL DRAWINGS SHALL MEAN THE STRUCTURAL ENGINEER OF RECORD. ALL OTHER NOTES ARE SPECIFICALLY NOTED AS "CONTRACTOR'S RESPONSIBILITY".
- 1.2 THE CONTRACTOR SHALL SUPPLEMENT THE SPECIFICATIONS WHICH SHALL BE REFERRED TO FOR ADDITIONAL REQUIREMENTS.
- 1.3 UNDERGROUND UTILITIES: LOCATE ALL EXISTING UTILITIES AND VERIFY NUMBER OF EXISTING UTILITIES OR SUB GRADE CONDITIONS WHICH INTERFERE WITH WORK.
- 1.4 EXISTING STRUCTURES: A. CONTRACT DOCUMENTS HAVE BEEN PREPARED USING ALL AVAILABLE DRAWINGS AND SITE OBSERVATIONS AS PERMITTED BY ACCESS RESTRICTIONS. B. DURING CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN EXISTING CONDITIONS WHICH ARE NOT KNOWN TO BE AT VARIANCE WITH PROJECT DOCUMENTATION. C. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL CONDITIONS NOT SHOWN ON THE CONTRACT DOCUMENTS. D. EXAMPLES INCLUDE:
 - BARS OR REINFORCEMENT OTHER THAN THOSE SHOWN
 - DAMAGE OR DETRIORATION TO MATERIALS AND COMPONENTS
 - CONDITIONS OF INSTABILITY OR LACK OF SUPPORT
 - CONTRACTOR SHALL MAKE ALLOWANCE FOR THE RESOLUTION OF SUCH DISCOVERIES IN THE CONSTRUCTION AND CONFORMANCE WITH SCHEDULES.
- 1.5 USE OF DRAWINGS: A. DO NOT SCALE DRAWINGS. B. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, SERIAL NOTES AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. C. DETAILS ON DRAWINGS THE PRECEDENCE OVER SERIAL NOTES, TECHNICAL DETAILS, ETC. SHALL BE NOTED IN THIS ORDER: PLANS, DETAILS, SERIAL NOTES, TECHNICAL DETAILS. D. CONTRACTOR SHALL CONFORM TO STANDARD CONSTRUCTION PRACTICES AND TO THE PRODUCT OF STANDARD CONSTRUCTION PRACTICES.
- 1.6 TEMPORARY CONDITIONS: A. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHOD AND/OR SEQUENCE. B. FOUNDATION WALLS SHALL NOT BE BACK FILLED UNTIL THE BASE GRADE AND LAYER SLABS ARE IN PLACE AND REACH FULL STRENGTH UNLESS OTHERWISE SPECIFIED. PROVIDE TIE-BACKS TO FOUNDATION WALLS. C. USE OF HAND OPERATED TOOLS FOR COMPACTING SOIL SHALL BE PROHIBITED.
- 1.7 SUBMITTALS AND SHOP DRAWINGS: A. SUBMITTALS: REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS OF THE CONTRACT. B. SHOP DRAWINGS: REFER TO THE STRUCTURAL DRAWINGS. C. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE REPRODUCTION OF SHOP DRAWINGS. D. ALL SHOP DRAWINGS SHALL BE APPROVED BY THE ARCHITECT. E. ALL SHOP DRAWINGS SHALL BE APPROVED BY THE ENGINEER OF RECORD. F. ALL SHOP DRAWINGS SHALL BE APPROVED BY THE ARCHITECT. G. ALL SHOP DRAWINGS SHALL BE APPROVED BY THE ARCHITECT.
- 1.8 SHALL STANDARDS: A. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. B. THE STRUCTURE SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS. C. THE CONTRACTOR SHALL ADD ALL NECESSARY BRACES, STAYS, STABILIZERS, BRACKETS, BRACING, BRACING BEAMS, COLUMN BRACES, ETC. AS CHANGES TO THE DRAWINGS ARE REQUIRED TO MAINTAIN THE STRUCTURE IN A SAFE AND SOUND CONDITION. D. THE CONTRACTOR SHALL ADD ALL NECESSARY BRACES, STAYS, STABILIZERS, BRACKETS, BRACING, BRACING BEAMS, COLUMN BRACES, ETC. AS CHANGES TO THE DRAWINGS ARE REQUIRED TO MAINTAIN THE STRUCTURE IN A SAFE AND SOUND CONDITION. E. THE CONTRACTOR SHALL ADD ALL NECESSARY BRACES, STAYS, STABILIZERS, BRACKETS, BRACING, BRACING BEAMS, COLUMN BRACES, ETC. AS CHANGES TO THE DRAWINGS ARE REQUIRED TO MAINTAIN THE STRUCTURE IN A SAFE AND SOUND CONDITION.
- 1.9 CONSTRUCTION: A. STRUCTURAL DRAWINGS ARE NOT TO BE CONSIDERED AS A SUBSTITUTE FOR THE CONTRACT DOCUMENTS. B. THE CONTRACTOR SHALL CONFORM TO ALL APPLICABLE CODES AND STANDARDS. C. THE CONTRACTOR SHALL CONFORM TO ALL APPLICABLE CODES AND STANDARDS. D. THE CONTRACTOR SHALL CONFORM TO ALL APPLICABLE CODES AND STANDARDS.

SECTION 2 - FOUNDATIONS (CONT)

- 2.1 CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. CEMENT SHALL BE TYPE I.
- 2.2 REINFORCING BARS: A. ALL WORK SHALL CONFORM WITH THE LATEST AG SPECIFICATIONS UNLESS NOTED OTHERWISE IN DRAWINGS OR PROJECT SPECIFICATIONS. B. DETAIL BARS IN ACCORDANCE WITH THE LATEST EDITIONS OF THE BUILDING MANUAL PUBLICATION SP-98 WITH ADDITIONAL REQUIREMENTS OF THE PROJECT SPECIFICATION AND BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. ACI 318.
- 2.3 REINFORCEMENT: A. REINFORCING BARS: ASTM A615-60. B. WELDED AND FIELD REINFORCING: ASTM A706-02. C. WELDED WIRE FABRIC: ASTM A185 OR ASTM A977-02. D. SPLICES:
 - NO SPLICING OF REINFORCEMENT PERMITTED EXCEPT AS NOTED ON DRAWINGS.
 - MAKE BARS CONTINUOUS AROUND CORNERS.
 - WHERE PERMITTED SPLICES MAY BE MADE BY CLASS B CONTACT LAPS OR MECHANICAL CONNECTIONS.
 - LAP BARS A MINIMUM OF 48 BAR DIAMETERS.
 - SPLICE CONTINUOUS TOP AND BOTTOM BARS IN WALLS, BEAMS AND GRADE BEAMS AS FOLLOWS:
 - TOP BARS - AT MID SPAN
 - BOTTOM BARS - OVER SUPPORT
- 2.4 PLACING REINFORCEMENT: A. REINFORCEMENT SHALL BE PLACED IN FORMS BUT EXPOSED TO WEATHER OR EARTH.
 - BARS AND SMALLER: 1-1/2"
 - BARS LARGER THAN 1/2": 2"
 - COLLARS, CRIBS, GRADE BEAMS, BEAMS: 1-1/2"
 - SLABS OR WALLS NOT EXPOSED TO WEATHER OR EARTH: 1"
 - CORE WALLS NOT EXPOSED TO WEATHER OR EARTH: 1"
- 2.5 REINFORCING PLACING TOLERANCES PER ACI 117:
 - PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCEMENT AND WELDED WIRE FABRIC AT POSITIONS SHOWN ON PLANS. ALL REINFORCING, CONCRETE BOLTS AND EMBEDDED PLATES SHALL BE SET AND TIED IN PLACE BEFORE THE CONCRETE IS POURING STRAIGHT INTO PREVIOUSLY PLACED CONCRETE. IS NOT PERMITTED.
- 2.6 CONSTRUCTION JOINTS: A. CONSTRUCTION JOINT LOCATION AND CASTING SEQUENCE SHOWN ON THE DRAWINGS MAY BE SUGGESTED AND HAVE BEEN APPROVED TO MINIMIZE THE EFFECTS OF ELASTIC AND LONG TERM SHRINKAGE. SUBMIT DRAWINGS SHOWING PROPOSED CONSTRUCTION JOINT LOCATION AND CASTING SEQUENCE.
- 2.7 MEP AND OTHER CHASING AND EMBEDMENTS: A. PROVIDE DETAILS FOR PLUMBING AND ELECTRICAL OPENINGS BEFORE PLACING CONCRETE. DO NOT CUT REINFORCING BARS TO ACCOMMODATE CHASING. CONCRETE IS NOT PERMITTED. REFER TO TYPICAL DETAILS FOR BRACING LIMITS OF BARS AND FOR REQUIREMENTS.

SECTION 3 - STEEL

- 3.1 GENERAL: A. ALL STRUCTURAL STEEL FABRICATED AND ERRECTED PER THE CURRENT EDITION OF AISC STEEL CONSTRUCTION MANUAL. B. STRUCTURAL STEEL CONNECTION MATERIALS:
 - CONNECTIONS: ASTM A307
 - ANCHOR BOLTS: ASTM A307 OR A315
- 3.2 CONNECTIONS: A. CONNECTIONS SHALL BE DESIGNED AND DETAILING TO THE LATEST EDITION OF THE AISC STEEL CONSTRUCTION MANUAL.

SECTION 4 - WOOD

- 4.1 DIMENSIONS: A. DIMENSIONS OF LUMBER SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL LUMBER ASSOCIATION (NLA) DIMENSIONAL STANDARDS. B. DIMENSIONS OF LUMBER SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL LUMBER ASSOCIATION (NLA) DIMENSIONAL STANDARDS. C. DIMENSIONS OF LUMBER SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL LUMBER ASSOCIATION (NLA) DIMENSIONAL STANDARDS.
- 4.2 FABRICATED LUMBER: A. ALL FABRICATED LUMBER SHALL BE GRADE MARKED PER THE LUMBER SCHEDULE SHOWN ON THE DRAWINGS. B. ALL FABRICATED LUMBER SHALL BE GRADE MARKED PER THE LUMBER SCHEDULE SHOWN ON THE DRAWINGS. C. ALL FABRICATED LUMBER SHALL BE GRADE MARKED PER THE LUMBER SCHEDULE SHOWN ON THE DRAWINGS.
- 4.3 WEATHERING: A. ALL FABRICATED LUMBER SHALL BE GRADE MARKED PER THE LUMBER SCHEDULE SHOWN ON THE DRAWINGS. B. ALL FABRICATED LUMBER SHALL BE GRADE MARKED PER THE LUMBER SCHEDULE SHOWN ON THE DRAWINGS. C. ALL FABRICATED LUMBER SHALL BE GRADE MARKED PER THE LUMBER SCHEDULE SHOWN ON THE DRAWINGS.

SECTION 4 - WOOD (CONT)

- 4.4 WEATHERING: A. ALL FABRICATED LUMBER SHALL BE GRADE MARKED PER THE LUMBER SCHEDULE SHOWN ON THE DRAWINGS. B. ALL FABRICATED LUMBER SHALL BE GRADE MARKED PER THE LUMBER SCHEDULE SHOWN ON THE DRAWINGS. C. ALL FABRICATED LUMBER SHALL BE GRADE MARKED PER THE LUMBER SCHEDULE SHOWN ON THE DRAWINGS.
- 4.5 OPENINGS: A. OPENINGS, POCKETS, ETC. SHALL NOT BE PLACED IN BEAMS, JOISTS, RAFTERS, STUDS, POSTS, COLLARS, TRUSSES AND OTHER STRUCTURAL MEMBERS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS.
- 4.6 NAILS: A. UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE NAILS WITH SIZES SHOWN ON THE DRAWINGS. B. UNLESS NOTED OTHERWISE, NAILS SHALL BE IN ACCORDANCE WITH THE NAILING SCHEDULE PER ICC 900.1 TABLE 200.8.1 UNLESS NOTED OTHERWISE ON DRAWINGS.
- 4.7 ENGINEERED WOOD TRUSSES: A. DESIGN CRITERIA: IBC 2012 TO SUPPORT THE FOLLOWING LOADS:
 - DEAD LOADS (PERPENDICULAR TO TRUSS): 10 PSF
 - LIVE LOADS (PERPENDICULAR TO TRUSS): 10 PSF
 - WIND VELOCITY: 115 MPH (ASCE 7-10 ENVELOPE METHOD)
 - OCCUPANCY CATEGORY: I
- 4.8 LATERAL BRACING: A. LATERAL BRACING SHALL BE PROVIDED PER LATEST APPROVED AISC 7 RECOMMENDATIONS. B. TRUSSES TO BE CHECKED FOR UNBALANCED LOAD CONDITIONS PER LATEST TRUSS RECOMMENDATIONS.
- 4.9 TRUSS DETAILING CRITERIA:
 - MAXIMUM VERTICAL ROOF LIVE LOAD DEFLECTION = LESSER OF L/240 OR 1/2"
 - MAXIMUM VERTICAL ROOF TOTAL LOAD DEFLECTION = LESSER OF L/240 OR 1/2"
 - MAXIMUM HORIZONTAL DEFLECTION = 1/2"
- 4.10 WOOD TRUSSES SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH APPLICABLE PROVISIONS OF THE LATEST BUILDING CODE AND SHALL CONFORM TO RECOMMENDATIONS OF THE TRUSS PLATE MANUFACTURER.
- 4.11 WOOD TRUSSES SHALL BE DESIGNED AND DETAILING USING SAWN LUMBER WITH A MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF FABRICATION. ALL CHORD MEMBERS SHALL BE A MINIMUM JOIST NOMINAL DIMENSION NO. 2 LUMBER AND WEBS SHALL BE A MINIMUM OF 2" NOMINAL DIMENSION STANDARD OR BETTER GRADE LUMBER.
- 4.12 TRUSS MANUFACTURER IS RESPONSIBLE FOR SPECIFYING ALL REQUIRED TRUSS TO TRUSS CONNECTIONS. APPROVED ENGINEERED TRUSS DRAWINGS MUST BEAT THE STAMP AND SIGNATURE OF A QUALIFIED TRUSS ENGINEER.
- 4.13 WOOD TRUSSES SHALL BE INSTALLED PER THE TRUSS MANUFACTURER'S RECOMMENDATIONS FOR THE SAFE ERECTION AND PERMANENT BRACING AS REQUIRED BY THE TRUSS MANUFACTURER'S RECOMMENDATIONS. THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR PROVIDING ALL TRUSS TO TRUSS CONNECTIONS. APPROVED ENGINEERED TRUSS DRAWINGS MUST BEAT THE STAMP AND SIGNATURE OF A QUALIFIED TRUSS ENGINEER.
- 4.14 MISCELLANEOUS WOOD FRAMING: A. SILL PLATE SHALL BE BOLTED TO CONCRETE WITH 1/2" DIA. x 10" LONG BOLTS IN 2' ON CENTER AND CUT AT 9" O.C. MAXIMUM WITH AT LEAST TWO BOLTS PER MEMBER UNLESS OTHERWISE NOTED. B. STUDS SHALL BE SPACED AT 16" O.C. MAXIMUM AND OF THE SIZE SHOWN ON PLANS. C. TRUSSES SHALL BE BRACED AT 16" O.C. MAXIMUM AND OF THE SIZE SHOWN ON PLANS. D. WOOD TRUSSES SHALL BE BRACED AT 16" O.C. MAXIMUM AND OF THE SIZE SHOWN ON PLANS. E. WOOD TRUSSES SHALL BE BRACED AT 16" O.C. MAXIMUM AND OF THE SIZE SHOWN ON PLANS.

CENSPACE, LLC
STRUCTURAL ENGINEERING
11332 OHMSIDE STREET
DENVER CO 80240
PHONE: (303) 656-9118
FAX: (303) 656-9118
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PROJECT NAME:
HIRST GARAGE/SHOP
6261 CR 41
FT. LUPTON, CO 80621

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PROFESSIONAL SEAL:

DATE:	DESCRIPTION:
2.18.15	REVIEW

JOB #: CO.5658.00

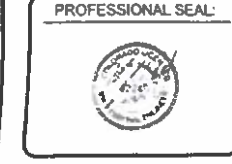
GENERAL NOTES

SG.1

CENSPACE, LLC
STRUCTURAL ENGINEERING
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HENDERSON CO 80640
PHONE : 303 635-8118
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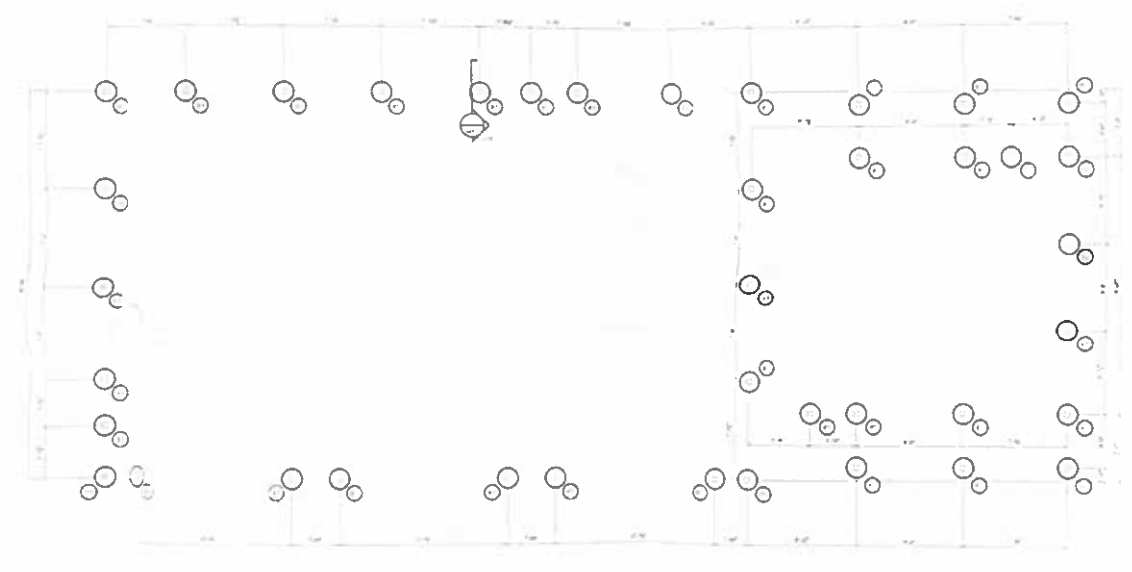


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JOB # CO 5858 00

FOUNDATION PLAN

S1.0



FOUNDATION PLAN - PLAN VIEW
SCALE: 1/4" = 1'-0"
LEGEND:

PIER SCHEDULE

PIER NO.	TYPE	TYPE
1	4" Round	4" Round
2	4" Round	4" Round
3	4" Round	4" Round

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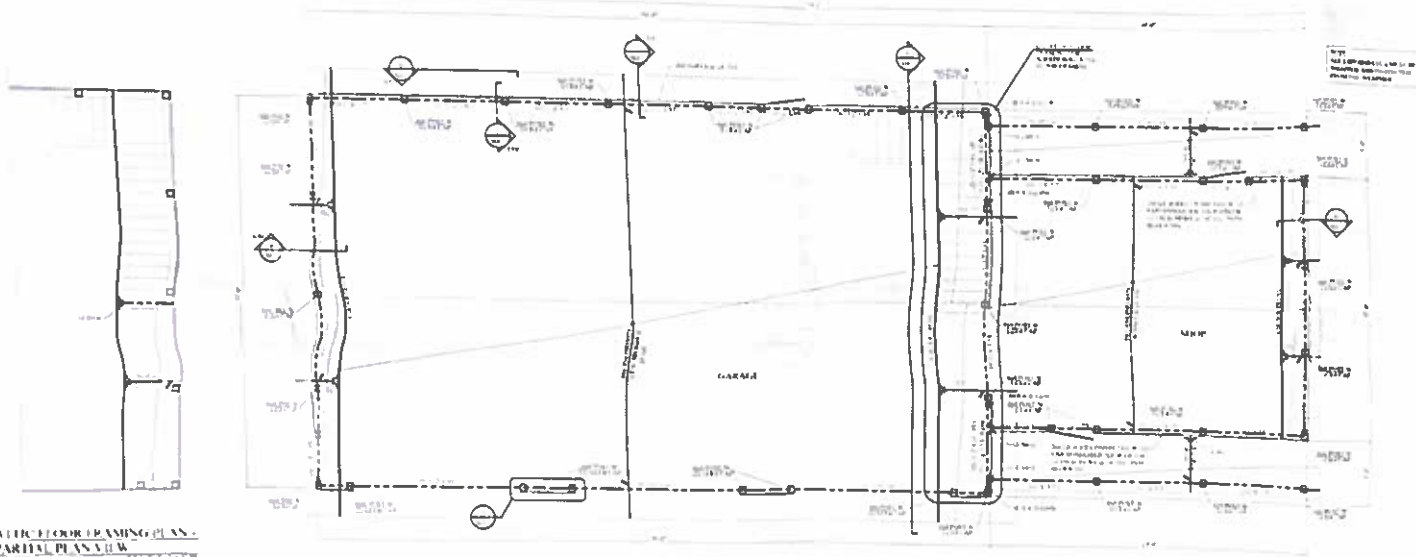


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JOB # CO 5858 00

ROOF FRAMING PLAN

S2.0

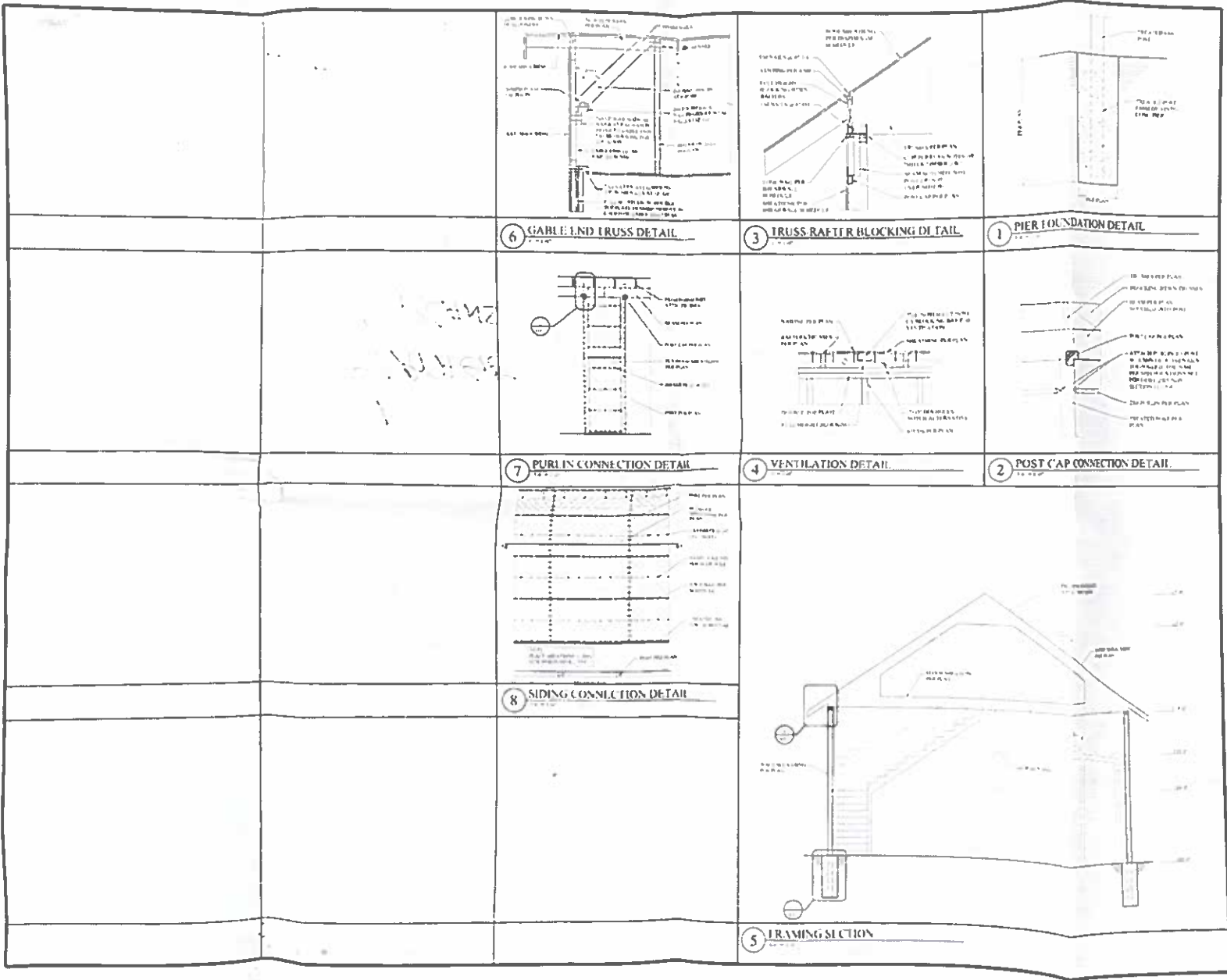


ATTIC / ROOF FRAMING PLAN - PARTIAL PLAN VIEW SCALE: 1/4" = 1'-0"

ROOF FRAMING PLAN - PLAN VIEW
 NOTES: ALL DIMENSIONS UNLESS OTHERWISE NOTED.
 ROOF FRAMING NOTES:
 1. RAFTERS: 4x8 @ 16" OC
 2. JOISTS: 2x10 @ 16" OC
 3. SHEATHING: 1/2" OSB
 4. FLASHING: 3" MIN. OVER LAP
 5. DRAINAGE: SEE DETAIL S2.0-10

SHEATHING FASTENER SCHEDULE

FASTENER TYPE	SPACING	NOTES
16D COMMON NAIL	6" OC	ALONG ALL EDGES
16D COMMON NAIL	12" OC	FIELD FASTENING
16D COMMON NAIL	6" OC	OVER LAP



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DATE:	DESCRIPTION:
2/18/15	REVIEW

JOB # CO.5858.00

DETAILS

SD.1

STRUCTURAL NOTES

GENERAL:

- Dimensions: The structural drawings shall be considered as a part of the complete set of Contract drawings, including the drawings of all disciplines. It is intended that the Structural drawings will provide sufficient dimensions to locate the primary structural elements and members. Location of secondary members which are affected by systems detailed by others may require reference to the drawings of other disciplines and layout and coordination by the contractor. If direct conflict between dimensions of two or more disciplines is encountered, such conflicts shall be resolved by the Architect. Do not use scaled dimensions. Use written dimensions or where dimensions are not provided, consult the architect for clarifications before proceeding with the work in question.
- Omissions or conflicts between various elements of the drawings, specifications, notes, and details shall be brought to the attention of the structural engineer and resolved before proceeding with the work. The contractor must submit in writing any requests for modifications to the plans and specifications. Shop drawings submitted to the structural engineer for review do not constitute "in writing" unless it is clearly noted that specific changes are being requested.
- Deferred Submittals: Where Structural components are fully or partially designed and detailed by the supplier or fabricator, complete shop drawings and calculations, signed and sealed by a professional engineer registered in the state where the project is located, shall be submitted to the structural engineer for review. In addition, a copy of these documents shall be submitted to the Building Official for approval in accordance with IBC Section 106.3.4.2.
- The Contract drawings and specifications represent the finished structure. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include but not be limited to bracing and shoring for loads due to construction equipment and materials.

DESIGN CRITERIA:

- Used 2009 International Building Code.
- Design Loads:
 - A. Roof: D.L. = 5#/SF., L.L. = 30#/SF. Snow
- Wind load = 90 MPH, exposure C, $I_w = 1.0$.
- Seismic: Equivalent Static Force Design Procedure. Seismic Design Category B, Site Class D.
 - $S_s = 0.203$ $S_{DS} = 0.217$
 - $S_1 = 0.154$ $S_{D1} = 0.086$
 - R = 7.0 - Light framed walls w/ steel sheet shear panels.
 - $I_e = 1.0$.

QUALITY ASSURANCE:

- FOUNDATIONS:
- Maximum foundation soil bearing pressure used = 1500#/SF.

MATERIALS:

- CONCRETE:
- Mix design shall be established in accordance to Chapter 5 of ACI 318.
 - Minimum cement content = 376#/YD.
 - Maximum slump = 4".
 - 28 day strength $f'_c = 2500$ PSI. Special inspection not required per IBC 1704.4, exception 2.

STRUCTURAL AND MISCELLANEOUS STEEL:

- All steel work shall conform with AISC specifications.
- Bolts ASTM A307 for connections to concrete. Bolts to be snug tight except bolts indicated as S.C. to be fully tightened.
- Roof Steel shall be painted 29 Co. ribbed steel and shall be attached to framing with $1 \frac{1}{2}'' \times \#9$ screws with neoprene washers at 9" o.c.

LUMBER:

- Sawn lumber for studs, joists, etc. (2x6 or larger) = No.2 Doug Fir larch.
- 2x4's = Standard Doug Fir larch.
- Posts = So. Pine #1 Hal-lam.
- All nails are to be common nails unless noted otherwise.
- For connections of "SIMPSON" hardware or equivalent follow manufacturers recommendations.
- Trus-Joist products:
 - A. Roof joists shown as T.J. etc. shall be designed for the loads specified and shall conform to Trus-Joist specification.
 - B. Joists exceeding 24' in length shall be cambered to a standard radius of R = 2250.
 - C. Any alternate joist system(s) shall be the same depth and load carrying capacity as the Trus-Joist system show on the drawings.
 - D. Micro Lam (LVL) E=1,900,000 psi.

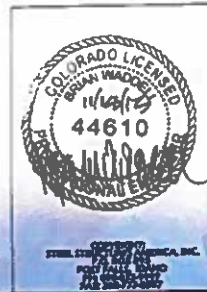
7. Premanufactured Trusses

- A. Truss Loading:
- Top Chord D.L. = 5 PSF
 - Bottom Chord D.L. = 7 PSF
 - Top Chord L.L. = 30 PSF
 - Bottom Chord L.L. = 5 PSF. Does not act concurrently with top chord L.L.
- B. Member Properties:
- Chords shall be #2 Douglas Fir or better.
 - Webs shall have minimum Modulus of Elasticity of 1,500,000 psi.
- C. All truss blocking shall be provided by the truss manufacturer and constructed with approved plates.
- D. Truss Manufacturer shall verify all truss dimensions, accounting for tolerances, connections, and splice requirements.
- E. Truss profiles shown are representations of possible configurations of Web locations and member sizes. Truss manufacturer shall submit shop drawings for approval. All trusses shall be designed by a registered professional engineer and all shop drawings shall be stamped and signed by a registered professional engineer.
- F. Truss manufacturer shall provide proof of approved third party inspection as required by IBC chapter 2303.4.
- G. Truss manufacturer shall design all truss to truss connections and shall indicate said connections on the shop drawings.
- H. Each truss shall be marked with the following information:
 - Manufacturers identity.
 - Design Load.
 - Truss spacing.
- B. All lumber in contact with concrete, masonry, or ground shall be preservative treated wood in accordance with AWWA standards.

SEE ATTACHED
CONDITION SHEET
FOR ALL REQUIRED CODES
AND
CODE REFERENCES

THIS STRUCTURE MUST CONFORM TO
2012 INTERNATIONAL BUILDING CODE

WELD COUNTY
BUILDING DEPARTMENT
APPROVED PLANS
[Signature] 12-20-13
SIGNATURE DATE



STRUCTURAL NOTES

STEEL STRUCTURES AMERICA, INC.

STEVEN HIRST

PROFESSIONAL ENGINEER

NO. 44610

STATE OF COLORADO

DATE: 12/18/13

PROJECT NO: 7060

DRWING NO: SO