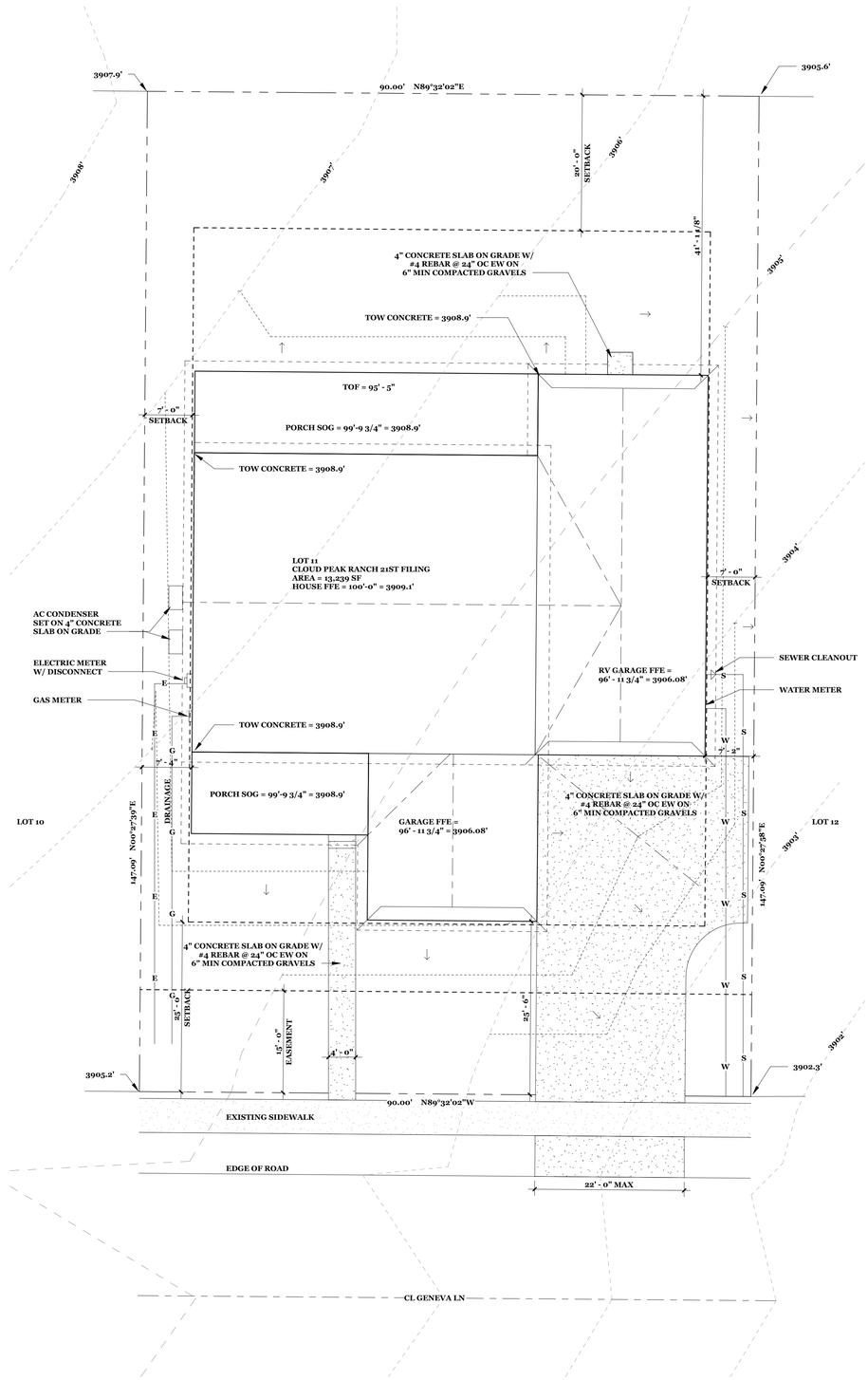


1 SITE PLAN
C100 SCALE: 1" = 10'-0"

STANDARD NOTES:

1. THIS PLAN SHALL BE KEPT ON SITE AT ALL TIMES AND UPDATED TO REFLECT ANY CHANGES.

2. CONCRETE WASTE & WASHOUT WATER FROM MIXING TRUCKS SHALL BE CONTAINED ON SITE, REMOVED FROM THE SITE & PROPERLY DISPOSED. MATERIALS SHOULD NOT ENTER STATE WATERS.

3. CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING TEMPORARY EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION & ESTABLISHING ANY REQUIRED PERMANENT BEST MANAGEMENT PRACTICES (BMPS).

4. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL, STATE, AND FEDERAL LAWS & OBTAINING ALL REQUIRED PERMITS.

5. CLEARING OR GRADING SHALL NOT BEGIN UNTIL ALL SEDIMENT CONTROL DEVICES HAVE BEEN INSTALLED.

6. INLET PROTECTION SHALL BE INSTALLED IN CONJUNCTION WITH STORM DRAIN INLETS WHERE DRAINAGE AREA IS NOT VEGETATED.

7. BMPS SHALL BE USED, MODIFIED & MAINTAINED WHENEVER NECESSARY TO REFLECT CURRENT CONDITIONS. BMPS SHALL BE INSPECTED WEEKLY & AFTER EVERY PRECIPITATION EVENT. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM BMPS WHEN THE SEDIMENT LEVEL REACHES ½ THE HEIGHT OF THE BMP.

8. EMERGENCY ACCESS MUST BE KEPT OBSTACLE FREE & PASSABLE AT ALL TIMES.

9. SIDEWALKS ADJACENT TO CONSTRUCTION SITES SHALL BE MAINTAINED FOR PUBLIC USE BY THE CONTRACTOR. IN AREAS WHERE CONSTRUCTION IS TAKING PLACE NEXT TO THE SIDEWALK AND OVERHEAD HAZARDS ARE POSSIBLE, CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING SIDEWALK PROTECTION.

10. FIELD LOCATE ALL UTILITIES PRIOR TO ANY CONSTRUCTION ACTIVITIES.

11. SURVEY INFORMATION FROM RECORD PLAT AND MODIFIED FOR USE AS A SITE PLAN.

ZONED:	**R-1**
SETBACKS:	**25' FRONT, 20' REAR, 7' SIDE**
LOT AREA:	**13,539 SF**
BUILDING HEIGHT:	**32'-0"**
ALLOWABLE BUILDING HEIGHT:	**35'-0" MAX**

Sheet List	
Sheet Number	Sheet Name
C100	SITE PLAN
SP1	SPECIFICATIONS
SP2	SPECIFICATIONS
A100	MAIN LEVEL FLOOR PLAN
A101	UPPER LEVEL FLOOR PLAN
A102	ROOF PLAN
A103	BUILDING ELEVATIONS
A104	BUILDING ELEVATIONS
A105	BUILDING SECTIONS
A106	BUILDING SECTIONS
S101	FOUNDATION PLAN
S102	MAIN LEVEL FLOOR FRAMING PLAN
S103	UPPER LEVEL AND LOWER ROOF FRAMING PLAN
S104	UPPER ROOF FRAMING PLAN

BRIDGER ENGINEERING AND DESIGN
SHERIDAN WYOMING
307-752-9146

"STRUCTURE ONLY"

SITE PLAN
GLOCK RESIDENCE
30 GENEVA LN
SHERIDAN, WY 82801
OWNER/CONTRACTOR 480.239.6512

Job #	2022-22
File	22.022
Date	2022.10.24
Drawn	KAB
Checked	KAB
Rel'd	20-17-2022
Reved	

Sheet Number
C100
SHEET 1 OF 14

TABLE R301.2(1) CLIMATIC & GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD	WIND DESIGN				SEISMIC DESIGN CATEG	DAMAGE FROM			WINTER DESIGN TEMP	ICE BARRIER REQ'D	FLOOD HAZARD	AIR FREEZE INDEX	MEAN ANNUAL TEMP
	SPEED (MPH)	TOPO EFFECT	SP WIND REGION	WIND DEBRIS ZONE		WEATH-ERING	FROST DEPTH	TERMITE					
30	109	NO	NO	NO	B	SEVERE	42"	NONE TO SLIGHT	-8°	YES <4:12	FIRM 1FEB14	2500	44°F

LIVE LOADS USED IN DESIGN

ROOF	30 PSF
ATTIC	20 PSF
FLOORS	40 PSF
FLOORS IN SLEEPING ROOMS	30 PSF
PASSENGER VEHICLE GARAGE FLOOR	50 PSF
WIND	EXPOSURE B
MAXIMUM SOIL BEARING PRESSURE	1500 PSF
MINIMUM DEAD LOAD PRESSURE	0 PSF

A SOILS REPORT IS NOT AVAILABLE FOR THIS SITE. PER CITY OF SHERIDAN DESIGN GUIDLINES A MAXIMUM DESIGN LOAD OF 1500PSF WILL BE USED.

REGULATORY REQUIREMENTS

ALL CONSTRUCTION SHALL CONFORM TO THE 2021 INTERNATIONAL RESIDENTIAL CODE

1. GENERAL REQUIREMENTS

EVERY ATTEMPT HAS BEEN TAKEN TO AVOID OR ELIMINATE ERRORS DURING THE PREPARATION OF THESE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THESE PLANS WITH ACTUAL FIELD CONDITIONS.

IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE THE INTERFACE BETWEEN ALL TRADES AND SUBCONTRACTORS, SO AS TO PRESENT A COMPLETE AND FINISHED PRODUCT.

ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODES AND ORDINANCES, AS AMENDED, AND SHALL BE DONE TO THE HIGHEST STANDARDS OF CRAFTSMANSHIP BY JOURNEYMEN OF THEIR RESPECTIVE TRADES.

THESE DOCUMENTS DO NOT INCLUDE PROVISIONS FOR JOB SITE SAFETY AND PROTECTION OF ADJACENT PROPERTIES DURING CONSTRUCTION SHALL BE THE CONTRACTORS RESPONSIBILITY.

ALL CONTRACTORS SHALL CARRY WORKMAN'S COMPENSATION, CONTRACTORS LIABILITY, PERSONAL INJURY AND COMPREHENSIVE AUTOMOBILE AND PROPERTY DAMAGE INSURANCE. GENERAL CONTRACTOR TO CARRY "BUILDERS RISK: INSURANCE. OWNER TO CARRY FIRE INSURANCE ON THE COMPLETED STRUCTURE.

THE GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL BUILDING PERMITS, USE TAX, SALES TAX, AND INSPECTION FEES, SPECIAL INSPECTIONS WHEN REQUIRED, SHALL BE EMPLOYED BY THE OWNER, ENGINEER RESPONSIBLE FOR THE DESIGN OR AN AGENT OF THE OWNER, BUT NOT BY THE CONTRACTOR OR ANY OTHER PERSON RESPONSIBLE FOR THE WORK.

ALL MATERIALS, EQUIPMENT AND WORKMANSHIP SHALL BE SUBJECT TO A ONE YEAR WARRANTY.

GENERAL CONTRACTOR IS TO PROVIDE THE OWNER WITH A BOUND COPY OF ALL INSPECTION REPORTS, BUILDING DEPARTMENT CORRESPONDENCE: EQUIPMENT MANUALS, DATED WARRANTIES AND INSTALLATION & MAINTENANCE INSTRUCTIONS: CERTIFICATE OF OCCUPANCY, AND LIEN WAIVERS OR RELEASES FROM ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO FINAL PAYMENT. THE GENERAL CONTRACTOR SHALL FAMILIARIZE THE OWNER WITH THE OPERATION OF ALL EQUIPMENT AND APPLIANCES AND CLEARLY LABEL ALL SAFETY VALVES AND CONTROLS FOR THE MAJOR HOUSE SYSTEMS.

MATERIAL SIZES NOTED ON THE PLANS ARE THE MINIMUM ACCEPTABLE. THE USE OF LARGER SIZE, OR STRONGER MATERIALS IS ACCEPTABLE FOR EASE OF CONSTRUCTION OR AESTHETICS. VERIFY THE USE OF ALL SUBSTITUTED MATERIALS WITH THE ENGINEER OF RECORD AND ARETE DESIGN GROUP.

2. SITE WORK

CONTRACTOR SHALL PROVIDE NECESSARY LABOR, MATERIALS AND EQUIPMENT TO PERFORM ALL SITE WORK SHOWN OR SPECIFIED IN THESE DOCUMENTS.

FIELD LOCATE ALL UTILITY LINES PRIOR TO ANY CONSTRUCTION ACTIVITY.

STRIP SITE OF EXISTING TOPSOIL AND STOCKPILE FOR RE-USE IN LANDSCAPING.

THE SLOPE OF CUT OR FILL SURFACES SHALL BE NO STEEPER THAN 2:1 (50% SLOPE).

ALL FOOTINGS ARE TO BE PLACED ON FIRM, UNDISTURBED NATURAL SOIL. TOPSOIL, LOOSE NATURAL SOILS, ALL EXISTING FILL MATERIALS WITHIN THE FOUNDATION EXCAVATIONS SHALL BE REMOVED AND THE FOOTINGS EXTENDED DOWN TO MORE COMPETENT EXISTING SOILS. NOTIFY THE SOIL ENGINEER WHEN EXCAVATION IS COMPLETED SO THAT CONDITIONS MAY BE INSPECTED PRIOR TO PLACEMENT OF ANY FILL OR CONCRETE.

WASHED ROCK OR EARTHEN FILL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING SHALL BE PLACED IN ACCORDANCE WITH THE SOIL INVESTIGATION REPORT AND ACCEPTED ENGINEERING PRACTICE. A REPORT OF SATISFACTORY PLACEMENT OF FILL, PREPARED BY A QUALIFIED SOIL ENGINEER SHALL BE REQUIRED. THIS REPORT SHOULD BE PROVIDED TO THE BUILDING INSPECTOR AT THE TIME OF FOOTING INSPECTION.

ALL FOOTING BEARING ELEVATIONS SHOWN ARE ASSUMED. EXACT BEARING ELEVATIONS SHALL BE VERIFIED IN THE FIELD WITH ACTUAL CONDITIONS, BY THE CONTRACTOR AND WITH THE APPROVAL OF THE ENGINEER AND THE OWNER.

CONCRETE FOUNDATION WALLS SHALL EXTEND ABOVE THE FINISHED GRADE ADJACENT TO THE FOUNDATION AT ALL POINTS A MINIMUM OF 4" WHERE MASONRY VENEER IS USED AND 6" ELSEWHERE

PROVIDE FOUNDATION PERIMETER DRAINAGE SYSTEM PER IRC SECTION R405 AND DETAILS PROVIDED

EXCEPTION- A DRAINAGE SYSTEM IS NOT REQUIRED WHERE THE FOUNDATION IS INSTALLED ON WELL-DRAINED GROUND OR SAND GRAVEL MIXTURE SOILS ACCORDING TO THE UNIFIED SOIL CLASSIFICATION SYSTEM, GROUP I SOILS, AS DETAILED IN TABLE R405.1

FOUNDATION WALLS THAT RETAIN EARTH AND ENCLOSE INTERIOR SPACES AND FLOORS BELOW GRADE SHALL BE DAMP-PROOFED FROM THE TOP OF THE FOOTING TO FINISHED GRADE PER SECTION R406.1 WITH BITUMINOUS COATING APPLIED PER MANUFACTURER'S INSTRUCTIONS. OR WATER PROOFED FROM THE TOP OF THE FOOTING TO FINISHED GRADE PER SECTION R406.2 WITH A 6 MIL PVC OR POLYETHYLENE MEMBRANE: 40 MIL POLYMER MODIFIED ASPHALT OR 60 MIL SOLVENT-FREE LIQUID-APPLIED SYNTHETIC RUBBER. ALL JOINTS IN MEMBRANE WATERPROOFING SHALL BE LAPPED AND SEALED. FOUNDATION GRADE "BITUTHANE" OR "RUBBER WALL" ARE ACCEPTABLE PRODUCTS. DAMPPROOFING OR WATER-PROOFING MATERIALS FOR ICF FOUNDATIONS SHALL BE PER MANUFACTURER'S INSTRUCTIONS.

BACKFILL SHALL NOT BE PLACED AGAINST FOUNDATION WALLS UNTIL FLOOR SLABS HAVE BEEN PLACED AND THE WALL HAS SUFFICIENT STRENGTH AND HAS BEEN ANCHORED TO THE FLOOR ABOVE OR HAS BEEN SUFFICIENTLY BRACED TO PREVENT DAMAGE BY THE BACKFILL.

LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6" WITHIN THE FIRST 10 FEET.

ALL UTILITY LINES SHALL BE EXTENDED FROM THE BUILDING TO THE UTILITY CONNECTION AS REQUIRED. CO-ORDINATE WITH THE APPROPRIATE UTILITY COMPANY AND BURIED CABLE LOCATION SERVICE.

ELECTRIC - FROM METER BOX TO TRANSFORMER

SEWER - FROM 5 FEET OUTSIDE THE FOUNDATION TO SERVICE TAP OR STUB-OUT

WATER - FROM METER OR SHUTOFF VALVE TO SERVICE TAP - MAINTAIN 5'-6"' MINIMUM COVER.

TELEPHONE - FROM TELOPHONE BOX TO BEDESTAL. MAINTAIN 18" MIN CONVER.

GAS - FROM POINT OF CONNECTION TO SERVICE TAP - MAINTAIN 18" MIN COVER

3. CONCRETE

CONTRACTOR SHALL PROVIDE ALL NECESSARY LABOR, MATERIALS AND EQUIPMENT TO COMPLETE ALL CONCRETE SHOWN OR NOTED IN THESE DOCUMENTS.

FORMS SHALL RESULT IN A FINAL STRUCTURE THAT CONFORMS TO SHAPES, LINES AND DIMENSIONS OF THE MEMBERS AS REQUIRED BY THE DESIGN DRAWINGS, AND SPECIFICATIONS.

CENTER ALL FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE NOTED ON PLANS.

ALL CONCRETE WORK AND REINFORCEMENT DETAILING SHALL BE IN ACCORDANCE WITH ACI BUILDING CODE 318-89. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER.

ALL REINFORCING SHALL BE HIGH STRENGTH DEFORMED BARS CONFORMING TO ASTM A615-73 AND SHALL BE GRADE 40 MIN OR AS SHOWN ON THE PLANS. ALL REINFORCEMENT SHALL BE COLD BENT UNLESS OTHERWISE PERMITTED BY THE BUILDING OFFICIAL.

PROVIDE CONCRETE ENCASED ELECTRODE (UFER GROUND) PER SECTION E3608.1.2 CO-ORDINATE EXACT REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185 AND SHALL BE LAPPED (1) FULL MESH AT SPLICES AND BE TIED TOGETHER.

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT.
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3"
CONCRETE EXPOSED TO EARTH OR WEATHER = 1-1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
SLABS, WALLS, JOISTS = 3/4"
BEAMS, COLUMNS = 1-1/2"
DEPTH OF FOOTING ABOVE BOTTOM REINFORCEMENT SHALL BE 6" MINIMUM

NO SPLICES OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AUTHORIZED BY THE ENGINEER. LAP SPLICES WERE PERMITTED, SHALL BE A MINIMUM OF (40) BAR DIAMETERS, UNLESS OTHERWISE NOTED. MAKE ALL BARS CONTINUOUS AROUND CORNERS. PLACE (2) #5 BARS WITH 2'-0" PROJECTION AROUND ALL OPENINGS IN CONCRETE WALLS, SLABS AND BEAMS.

CONTINUOUS TOP AND BOTTOM BARS IN WALLS SHALL BE SPLICED AS FOLLOWS: TOP BARS AT MIDSPAN, BOTTOM BARS AT SUPPORTS.

PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ACI 318-89. WHERE PROVIDED IN SLABS ON GROUND, REINFORCEMENT SHALL BE SUPPORTED TO REMAIN IN PLACE FROM THE CENTER TO THE UPPER 1/3 OF THE SLAB FOR THE DURATION OF THE CONCRETE PLACEMENT.

ALL CAST-IN-PLACE CONCRETE SHALL BE MADE WITH TYPE II A PORTLAND CEMENT, FIVE-SACK MIX WITH 5% MINIMUM TO 7% MAXIMUM ENTRAINED AIR AND 3/4" MAXIMUM STONE AGGREGATE SIZE. CONCRETE SHALL DEVELOP 2.500 PSI COMPRESSIVE STRENGTH IN 28 DAYS FOR BASEMENT SLABS, 3000 PSI FOR WALLS AND 3,500 PSI FOR PATIOS, STEPS, GARAGE SLAB AND WEATHER EXPOSED CONCRETE. MATERIALS USED TO PRODUCE CONCRETE AND TESTING THEREOF SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN CHAPTER 3 OF ACI 318 OR ACI 332. CONCRETE SHALL BE PLACED WITH A 4" MAXIMUM SLUMP. SHALL NOT BE PLACED ON FROZEN, MUDDY OR SATURATED SOIL AND SHALL BE PROTECTED FROM FREEZING FOR 7 DAYS.

CONCRETE (OTHER THAN HIGH-EARLY-STRENGTH) SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR AT LEAST THE FIRST SEVEN DAYS AFTER PLACEMENT. HIGH-EARLY STRENGTH CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR AT LEAST THE FIRST THREE DAYS. FROZEN MATERIALS OR MATERIALS CONTAINING ICE SHALL NOT BE USED. DURING HOT WEATHER, PROPER ATTENTION SHALL BE GIVEN TO INGREDIENTS, PRODUCTION METHODS, HANDLING, PLACING, PROTECTION AND CURING TO PREVENT EXCESSIVE CONCRETE TEMPERATURES OR WATER EVAPORATION THAT MAY IMPAIR REQUIRED STRENGTH OR SERVICE ABILITY OF THE MEMBER OR STRUCTURE.

NO ADMIXTURES SHALL BE USED WITHOUT APPROVAL BY THE FOUNDATION ENGINEER. WHEN CALCIUM CHLORIDE IS USED AS AN ADMIXTURE, NO GALVANIZED STEEL SHALL BE PLACED INTO CONCRETE AS REINFORCEMENT, INSERTS OR DUCT OR PIPE PENETRATIONS.

DURING COLD WEATHER PROVIDE TEMPORARY HEAT AS REQUIRED TO PREVENT "FROST DAMAGE" TO ALL FOOTINGS, WALLS, SLABS AND PIERS.

CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS SUFFICIENTLY COATED TO PREVENT ALUMINUM-CONCRETE REACTION OR ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.

CONCRETE SHALL BE THOROUGHLY CONSOLIDATED DURING PLACEMENT AND BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF FORMS.

SLABS, FOOTINGS AND WALLS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE. ANY STOP IN CONCRETE WORK MUST BE MADE AT A THIRD POINT OF SPAN WITH VERTICAL BULKHEADS, DOWELS AND SHEAR KEYS, UNLESS OTHERWISE SHOWN. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR REVIEWED BY THE ENGINEER.

FLOOR SLABS SHALL BE POURED IN WHOLE OR IN CHECKER PATTERN, AVOIDING RE-ENTRANT CORNERS, WITH CONSTRUCTION JOINTS LOCATED UNDER PARTITIONS WHERE PRACTICAL AND WITH NO DIMENSION EXCEEDING THE RECOMMENDATION IN THE SOILS REPORT OR 12 FEET AND SHOWN ON THE PLANS.

CONCRETE FINISH SHALL BE STEEL TROWELED FOR INTERIOR FLOOR SLABS AND BROOM FINISH FOR EXTERIOR WALKS.

4. MASONRY

CONTRACTOR SHALL PROVIDE NECESSARY LABOR, MATERIALS AND EQUIPMENT TO LAY UP MASONRY AS SHOWN OR SPECIFIED IN THESE DOCUMENTS. ALL WORK SHALL BE PLUMB, SQUARE AND TRUE WITH FILLED JOINTS.

PROVIDE ROCK VENEER WITH SANDSTONE CAP AT LOCATIONS NOTED ON PLANS. ADHERED, LIGHT WEIGHT, SYNTHETIC VENEER SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. ANCHORED STONE OR MASONRY VENEER SHALL BE INSTALLED PER IRC SECTION R703.7: TABLE R703.4 AND FIGURE R703.7

MORTAR FOR USE IN MASONRY CONSTRUCTION SHALL COMPLY WITH ASTM C270. THE TYPE OF MORTAR SHALL BE IN ACCORDANCE WITH SECTIN R607.1.1 OR R607.1.2 AND SHALL MEET THE PROPORTION SPECIFICATIONS OF TABLE R607.1. MASONRY CEMENT SHALL NOT BE USED.

CLEANOUTS SHALL BE PROVIDED AT THE BOTTOM COURSE OF THE EXTERIOR WYTHE AT EACH POUR WHERE SUCH POUR IN EXCESS OF 5' IN HEIGHT, CLEANOUTS SHALL BE PROVIDED AT BOTTOM COURSE OF EACH CELL TO BE GROUTED AT EACH POUR OF GROUT WHERE SUCH POUR EXCEEDS 4 FEET IN HEIGHT.

UNLESS OTHERWISE NOTED, PROVIDE LOOSE LINTELS AS FOLLOWS: (ONE ANGLE FOR EACH 4" OF WALL THICKNESS WITH 4" MIN BEARING ON EACH END)
OPENINGS TO 4'-6" ANGLE 4"X3"X1/4" THICK
OPENINGS FROM 4'-6" TO 6'-0" ANGLE 5"X3-1/2"X5/16" THICK
OPENINGS FROM 6'-0" TO 7'-0" ANGLE 6"X3-1/2"X5/16" THICK
MAXIMUM OF 2 STORIES OF MASONRY VENEER ABOVE.

5. METALS

ALL STRUCTURAL STEEL AND MISCELLANEOUS EMBEDDED ITEMS SHALL CONFORM TO ASTM A36.
ALL BOLTS (INCLUDING ANCHOR BOLTS) SHALL CONFORM TO ASTM A307
PIPE COLUMNS SHALL CONFORM TO ASTM A53, GRADE B.
TUBE SHAPES SHALL CONFORM TO ASTM 500, GRADE B, 46 KSI YIELD.

STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH LATEST PROVISIONS OF AISC "MANUAL OF STEEL CONSTRUCTION"

WELDING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH "STRUCTURAL WELDING CODE-STEEL" ANSI/AWS D1.1-90

MINIMUM WELDS TO BE PER AISC AND/ OR AWS, BUT NOT LESS THAN 3/16" CONTINUOUS FILLET UNLESS OTHERWISE NOTED. QUALITY CONTROL SHALL BE PER AWS. USE E70XX ELECTRODES. ALL WELDING TO BE PERFORMED BY CERTIFIED WELDERS, IN AN APPROVED FABRICATOR'S SHOP

WHEN REQUIRED A QUALIFIED SPECIAL INSPECTOR SHALL OBSERVE ALL FIELD WELDING OF STRUCTURAL MEMBERS OR CONNECTIONS FOR CONFORMANCE WITH THE APPROVED STRUCTURAL DESIGN. THE SPECIAL INSPECTOR SHALL SUBMIT A SIGNED REPORT, STATING CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE REPORT SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT PRIOR TO REQUESTING ROUGH FRAMING INSPECTIONS. OR THE REPORT MAY BE MADE AVAILABLE TO A FIELD INSPECTOR AT THE TIME OF ROUGH FRAMING INSPECTION. SPECIAL INSPECTIONS IF REQUIRED SHALL BE AT THE OWNERS EXPENSE.

MISCELLANEOUS, CLIPS, ANCHORS AND CONNECTORS SHALL BE SIMPSON "STRONG TIE" OR ICBO APPROVED EQUAL, UNLESS OTHERWISE NOTED. REFER TO SIMPSON CATALOG FOR APPROPRIATE NAILING WHEN NOT SPECIFIED ON PLANS. PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

RAMSET PLATES TO BE ATTACHED TO STEEL WITH 1/8"Ø DRIVE PINS @ 16" OC OR 1/2"Ø LAG BOLTS @ 32" OC STAGGERED.

EXPANSION BOLTS SHALL BE "WEG-IT", "REDHEAD" OR APPROVED EQUAL. MINIMUM EMBEDMENT SHALL BE 1-1/2" FOR 1/2"Ø BOLTS AND 2" FOR 5/8"Ø BOLTS. EPOXY GROUTED REBAR OR ANCHOR BOLT CONNECTIONS SHALL BE MADE WITH SIMPSON "EPOXY-TIE" AND PER MANUFACTURER'S INSTRUCTIONS.

ANCHOR BOLTS SHALL BE 1/2"Ø WITH 7" MINIMUM EMBEDMENT AND SUFFICIENT EXPOSED LENGTH FOR CONNECTION OF PLATE OR SILLS PLUS FULL NUT PENETRATION WITH WASHER. ANCHOR BOLTS SHALL BE PLACED AT 48" OC (UON) AND BETWEEN 4"-12" OF PLATE ENDS AND CORNERS. PROVIDE (2) ANCHOR BOLTS (MIN) PER PLATE OR SILL.

6. CARPENTRY

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT TO FRAME UP , SHEATH AND TRIM OUT BUILDING AS SHOWN OR SPECIFIED IN THESE DOCUMENTS.

ALL 2" FRAMING LUMBER SHALL BE STRESS RATED, S-DRY DOUGLAS FIR OR LARCH (DF-L) S4S #2 OR BETTER. ALL SOLID TIMBER BEAMS AND POSTS SHALL BE S-DRY DOUGLAS FIR OR LARCH (DF-L) S4S #1 OR BETTER.

GLUE LAMINATED BEAMS (GL) SHALL BE AITC STRESS RATED TO COMBINATION SYMBOL 24F-V4 FOR SIMPLE SPANS AND 24F-V8 FOR MULTI SPANS AND CANTILEVERS. ARCHITECTURAL APPEARANCE GRADE THE PORTIONS OF GLU-LAMINATED TIMBERS EXPOSED TO WEATHER AND NOT PROPERLY PROTECTED BY A ROOF, EVE OR SIMILAR COVERING SHALL BE PRESSURE TREATED WITH PRESERVATIVE. (IRC R307.1.5)

PREFABRICATED WOOD MEMBERS SHALL BE OF THE TYPE NOTED ON THE PLANS AND SHALL BE MICRO-LAM(LVL), TIMBER STRAND (LSL), PARALAM (PSL) OR TJI AS MANUFACTURED BY TRUS-JOIST MACMILLAN OR APPROVED EQUAL. I-JOISTS AND LAMINATED LUMBER SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

CUTS, NOTCHES AND HOLES BORED IN TRUSSES, STRUCTURAL COMPOSITE LUMBER, STRUCTURAL GLUE-LAMINATED MEMBERS OR I-JOISTS ARE PROHIBITED EXCEPT WHERE PERMITTED BY THE MANUFACTURER'S RECOMMENDATIONS OR WHERE THE EFFECTS OF SUCH ALTERATIONS ARE SPECIFICALLY CONSIDERED IN THE DESIGN OF THE MEMBER BY A REGISTERED PROFESSIONAL ENGINEER (R502.8.2)

PLYWOOD SHEATHING SHALL BE STRUCTURAL 1. C-D EXT-APA FOR ALL USES, MEETING THE MINIMUM APA RATING OR THICKNESS NOTED ON THE PLANS. ROOF AND FLOOR SHEATHING SHALL BE PLACED WITH THE 8'-0" DIMENSION PERPENDICULAR TO THE FRAMING. STAGGER END JOINTS. PLYWOOD FLOOR SHALL BE TONGUE AND GROOVED AND GLUED AND NAILED AT SUPPORTS. WALL SHEATHING MAY BE PLACED VERTICAL OR HORIZONTALLY WITH ALL HORIZONTAL JOINTS BLOCKED AND EDGE NAILED. NAIL ROOF SHEATHING WITH 8d (PENNY) NAILS AT 6" OC AT THE EDGES AND 12" OC IN THE FIELD. NAIL FLOOR SHEATHING WITH 10d RING SHANKS AT 6" OC AT THE EDGES AND 12" OC IN THE FIELD. HIGH FOOT TRAFFIC AREAS SHALL BE SCREWED AT 6" OC NAIL WALL SHEATHING WITH 8d NAILS AT 6" OC AT THE EDGES AND 12" IN THE FIELD.

PROVIDE 1X4 CROSS BRIDGING OR 2X BLOCKING AT NOT OVER 8' ON CENTER FOR ALL SOLID WOOD JOISTS, UNLESS BOTH EDGES OF THE MEMBER ARE HELD IN LINE, PROVIDE SOLID BLOCKING BETWEEN JOISTS AT ALL SUPPORTS, BEAMS OR BEARINGS WALLS. PROVIDE SOLID BLOCKING AT 24" OC UNDER ALL PARTITIONS RUNNING PARALLEL TO JOISTS AND AT CENTERLINE OF WALLS RUNNING PERPENDICULAR TO JOISTS. SOLID BLOCKING IN ROOF SYSTEMS SHALL NOT INTERFERE WITH COLD ROOF VENTILATION.

ALL SOLID WOOD OR STEEL COLUMN SUPPORTS SHALL BE CONTINUOUS THROUGH FRAMING AND SHALL BEAR DIRECTLY ON ANOTHER COLUMN OR BEAM OR OTHERWISE TRANSFERRED TO THE FOUNDATION. MULTIPLE STUD COLUMNS MAY BEAR DIRECTLY ON A WALL PLATE IF PROVIDED WITH FULL WIDTH BLOCKING THROUGH FRAMING SYSTEM.

IN COMBUSTIBLE CONSTRUCTION WHERE THERE IS USABLE SPACE ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR/ CEILING ASSEMBLY, DRAFTSTOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1,000 SQUARE FEET. DRAFTSTOPPING SHALL DIVIDE THE AREA INTO APPROXIMATELY EQUAL AREAS. WHERE THE ASSEMBLY IS ENCLOSED BY A FLOOR MEMBRANE ABOVE AND A CEILING MEMBRANE BELOW, DRAFT STOPPING SHALL BE PROVIDED UNDER THE FOLLOWING CERCUMSTANCES:
1. WHEN THE CEILING IS SUSPENDED UNDER THE FLOOR FRAMING
2. FLOOR FRAMING IS CONSTRUCTED OF TRUSS TYPE OPEN WEB OR PERFORATED MEMBERS

DRAFT STOPPING MATERIALS SHALL BE NOT LESS THAN 1/2 " GYPSUM BOARD, 3/8" WOOD STRUCTURAL PANELS OR OTHER APPROVED MATERIALS ADEQUATELY SUPPORTED. DRAFTSTOPPING SHALL BE INSTALLED PARALLEL TO THE FLOOR FRAMING MEMBERS.

FIRE BLOCKS SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM EFFECTIVE FIRE BARRIERS BETWEEN STORIES AND BETWEEN THE TOP STORY AND THE ROOF SPACE

IN COMBUSTIBLE CONSTRUCTION FIREBLOCKING SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS:

1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, VERTICALLY AT THE CEILING AND FLOOR LEVELS, HORIZONTALLY AT INTERVALS NOT EXCEEDING 10'
2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED HORIZONTAL AND VERTICAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.
3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
4. AT OPENINGS AROUND VENT PIPES, DUCTS, CABLES & WIRES AT CEILING AND FLOOR LEVEL WITH AN APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION.
5. ALL SPACES BETWEEN CHIMNEYS AND FLOOR AND CEILINGS THROUGH WHICH A CHIMNEY PASS SHALL BE FIRE BLOCKED WITH NON-COMBUSTIBLE MATERIAL SECURELY FASTENED IN PLACE.
6. ALL SPACES BETWEEN CHIMNEYS AND FLOORS AND CEILINGS THROUGH WHICH CHIMNEYS PASS.

6. CAPRENTRY - CONTINUED

FIRE BLOCKING SHALL CONSIST OF 2" NOMINAL LUMBER, 1/2" GYPSUM BOARD, MINERAL WOOL OR GLASS FIBER BATT. SEE SECTION R302.11.1 FOR ALTERNATE MATERIALS. THE INTEGRITY OF ALL FIREBLOCKS SHALL BE MAINTAINED.

ALL LUMBER AND PLYWOOD USED IN EXTERIOR FOUNDATION WALLS (EXCEPT THE UPPER TOP PLATE) SHALL BE PRESSURE-PRESERVATIVE TREATED IN ACCORDANCE WITH AWPA U1 AND SHALL BEAR THE LABEL OF AN ACCREDITED AGENCY SHOWING 0.60 RETENTION

WOOD COLUMNS SHALL BE APPROVED WOOD OF NATURAL DECAY RESISTANCE OR APPROVED PRESSURE PRESERVATIVE TREATED WOOD.

EXCEPTION: COLUMNS EXPOSED TO WEATHER OR IN A BASEMENTS OR CRAWLSPACES WHEN SUPPORTED BY CONCRETE PIERS OR METAL PEDESTALS PROJECTING 1" ABOVE A CONCRETE FLOOR AND 6" ABOVE EXPOSED EARTH AND THE EARTH IS COVERED BY AN APPROVED IMPERVIOUS MOISTURE BARRIER

SILLS AND SLEEPERS ON A CONCRETE OR MASONRY SLAB WHICH IS IN DIRECT CONTACT WITH THE GROUND UNLESS SEPARATED FROM SUCH SLAB BY AN IMPERVIOUS MOISTURE BARRIER SHALL BE PRESSURE-PRESERVATIVE TREATED WOOD IN ACCORDANCE WITH AWPA U1 OR FOUNDATION REDWOOD.

FASTENERS IN PRESSURE PRESERVATIVE & FIRE RETARDANT TREATED WOOD ABOVE GRADE SHALL BE HOT DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER

EXCEPTION 1/2"Ø OR GREATER STEEL BOLTS.

THE ENDS OF EACH JOIST, BEAM OR GIRDER SHALL HAVE NOT LESS THAN 1-1/2 INCHES BEARING ON WOOD OR METAL AND NOT LESS THAN 3 INCHES ON MASONRY OR CONCRETE EXCEPT WHERE SUPPORTED BY THE USE OR APPROVED JOIST HANGERS. JOISTS FRAMING FROM OPPOSITE SIDES OVER A BEARING SUPPORT SHALL LAP A MINIMUM OF 3 INCHES AND BE NAILED TOGETHER W/ A MINIMUM OF (3) 10d FACE NAILS. JOISTS FRAMING INTO THE SIDE OF A BEAM OR GIRDER SHALL BE SUPPORTED BY APPROVED FRAMING ANCHORS OF THE APPROPRIATE SIZE AND CAPACITY

NOTCHES IN SOLID LUMBER JOISTS, RAFTERS OR BEAMS SHALL NOT EXCEED 1/6 OF THE MEMBER DEPTH, SHALL NOT BE LONGER THE 1/3 OF THE MEMBER DEPTH AND NOT BE LOCATED IN THE MIDDLE 1/3 OF THE SPAN. NOTCHES AT THE ENDS OF THE MEMBER SHALL NOT EXCEED 1/4 OF THE MEMBER DEPTH. THE TENSION SIDE OF MEMBERS 4" OR GREATER SHALL NOT EXCEED 1/3 THE DEPTH OF THE MEMBER. HOLES SHALL NOT BE CLOSER THAN 2" TO THE TOP OR BOTTOM OF THE MEMBER OR TO ANY OTHER HOLE OR NOTCH LOCATED IN THE MEMBER.

CUTS, NOTCHES AND HOLES BORED IN TRUSSES, STRUCTURAL COMPOSITE LUMBER, STRUCTURAL GLU LAMINATED MEMBERS OR I-JOISTS ARE PROHIBITED EXCEPT WHERE PERMITTED BY THE MANUFACTURERS RECOMMENDATIONS OR WHERE THE EFFECTS OF SUCH ALTERATIONS ARE SPECIFICALLY CONSIDERED IN THE DESIGN OF THE MEMBER BY A REGISTERED PROFESSIONAL ENGINEER.

OPENINGS IN FLOOR, CEILING AND ROOF FRAMING SHALL BE FRAMED WITH A HEADER AND TRIMMER JOISTS AND SHALL BE DOUBLED OR OF EQUIVALENT CROSS SECTION WHEN THE SPAN OF THE HEADER EXCEEDS 4'. THE ENDS OF HEADER JOISTS MORE THAN 6' LONG SHALL BE SUPPORTED BY FRAMING ANCHORS OR JOIST HANGERS, UNLESS BEARING ON A BEAM, PARTITION OR WALL.

GIRDERS AND BEAMS SHALL HAVE 3" MINIMUM BEARING OR WHEN FRAMED INTO THE SIDE OF A BEAM OR GIRDER, SHALL BE SUPPORTED BY FRAMING ANCHORS OF THE APPROPRIATE SIZE AND CAPACITY. GIRDERS AND BEAM END JOISTS SHALL OCCUR OVER SUPPORTS. WHEN A GIRDER OR BEAM IS SPLICED OVER A SUPPORT AN ADEQUATE TIE SHALL BE PROVIDED.

ENDS OF WOOD GIRDERS OR BEAMS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS SHALL BE PROVIDED WITH A 1/2" AIR SPACE ON TOP, SIDES AND END UNLESS APPROVED WOOD OF NATURAL RESISTANCE TO DECAY OR PRESSURE PRESERVATIVE TREATED WOOD IS USED.

FIELD CUT ENDS, NOTCHES AND DRILLED HOLES OF PRESSURE PRESERVATIVE TREATED WOOD SHALL BE TREATED IN THE FIELD IN ACCORDANCE WITH AWPA M4.

FLOOR JOISTS UNDER PARALLEL BEARING PARTITIONS SHALL BE OF ADEQUATE SIZE TO SUPPORT THE LOAD. DOUBLED JOISTS THAT ARE SEPARATED TO PERMIT THE INSTALLATION OF PIPING OR VENTS SHALL BE FULL DEPTH SOLID BLOCKED WITH 2X_ DIMENSIONAL LUMBER SPACED 4' OC.

EACH END OF A HEADER SHALL HAVE A MINIMUM BEARING LENGTH OF 1-1/2" FOR THE FULL WIDTH OF THE HEADER. LVL HEADERS SHALL HAVE A MINIMUM BEARING LENGTH OF 3" FOR THE FULL WIDTH OF THE HEADER. PROVIDE DOUBLED "KING STUDS" AT ALL OPENINGS OVER 10' WIDE.

MINIMUM NAILING SHALL BE AS SPECIFIED IN TABLE R602.3(1)

7. THERMAL AND MOISTURE PROTECTION

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT TO INSTALL INSULATION, VAPOR BARRIERS & RETARDERS, FLASHINGS, WATERPROOFING AND ROOF COVERING AS DETAILED OR SPECIFIED INT THESE DOCUMENTS.

UNDER-FLOOR OR CRAWLSPACE ARES SHALL HAVE VENTILATION OPENINGS IN THE FOUNDATION WALL OR EXTERIOR WALLS. THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER-FLOOR SPACE AREA. ONE SUCH VENTILATING OPENING SHALL BE LOCATED WITHIN 3 FEET OF EACH CORNER OF THE BUILDING. OPENINGS SHALL BE COVERED WITH CORROSION RESISTANT WIRE MESH WITH MESH OPENINGS OF 1/8" OR LESS.

EXCEPTION: THE TOTAL AREA OF VENTILATION OPENINGS MAY REDUCE TO 1/1500 OF THE UNDER-FLOOR AREA WHERE THE GROUND SURFACE IS COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL AND THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS-VENTILATION OF THE SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PERMITTED. APPROVED VAPOR RETARDERS ARE 6 MIL POLYETHYLENE FILM WITH 2" PEA GRAVEL BALLAST OR RUFCO "SUPER SAMPSON" OR "TU TUF#4" MEMBRANES

VENTILATION OPEINGS IN UNDER FLOOR SPACES SHALL NOT BE REQUIRED WHERE:
1. THE EXPOSED EARTH IS COVERED WITH A CONTINUOUS VAPOR RETARDER. JOINTS OF THE VAPOR RETARDER SHALL OVERLAP 6" AND SHALL BE SEALED OR TAPED AND THE EDGES EXTED UP THE STEM WALL 6 " MINIMUM AND ARE ATTACHED AND SEALED TO THE STEM WALL: AND
2. CONTINUOUSLY OPERATED MECHANICAL ESHAUST VENTILATOR OR CONDITIONED AIR SUPPLY SIZED TO DELIVER 1CFM FOR EACH 50 SF OF CRAWLSPACE AREA. PROVIDE AIR PATHWAY TO THE COMMON AREA VIA DUCT OR TRANSFER GRILL. FOUNDATION PERIMETER WALLS SHALL BE INSULATED IN ACCORDANCE WITH SECTION N1102.2.8

PROVIDE FOAM SILL SEALER BETWEEN TOP OF FOUNDATION WALL AND RIM JOIST AND BETWEEN FLOOR SHEATHING & SILL PLATES AT ALL EXTERIOR WALLS.

A CLASS I OR II VAPOR RETARDER IS REQUIRED ON INTERIOR SIDED OF FRAMED WALLS.

EXCEPTION: BASEMENT OR BELOW GRADE PORTION OF ANY WALL.

INSULATION MATERIALS, INCLUDING FACINGS SUCH AS VAPOR RETARDERS OR VAPOR PERMEABLE MEMBRANES SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED 25 AND A SMOKE DENSITY NOT TO EXCEED 450.

EXCEPTIONS:
1. WHEN SUCH MATERIALS ARE INSTALLED IN CONCEALED SPACES PROVIDING THE FACING IS INSTALLED IN SUBSTANTIAL CONTACT WITH THE SURFACE OF THE FINISH.
2. CELLULOSE LOOSE-FILL INSULATION

FOAM PLASTIC INSULATION SHALL COMPLY WITH IRC R316.1 UNLESS OTHERWISE ALLOWED IN SECTION R316.5 OR R316.6 FOAM PLASTIC SHALL BE SEPARATED FROM THE INTERIOR OF THE BUILDING BY AN APPROVED THERMAL BARRIER OF MINIMUM 1/2" GYPSUM WALL BOARD, OR AN APPROVED THERMAL BARRIER.

THE THERMAL BARRIER IS NOT REQUIRED WHEN THE FOAM PLASTIC IS IN A ROOF ASSEMBLY AND SEPARATED FROM THE INTERIOR BY T&G WOOD PLANKS OR WOOD STRUCTURAL PANEL SHEATHING

THE THERMAL BARRIER IS NOT REQUIRED IN ATTICS OR CRAWLSPACES WHEN EACH OF THE FOLLOWING APPLIES:
1. ACCESS IS REQUIRED BY SECTION R807.1 (ATTIC) OR R408.4 (CRAWLSPACE)
2.THE SPACE IS ENTERED ONLY FOR PURPOSES OF REPAIR OR MAINTENANCE.
3. WHEN THE FOAM PLASTIC INSULATION IS PROTECTED FROM IGNITION USING ONE OF THE FOLLOWING IGNITION BARRIER MATERIALS, 1-1/2" THICK MINERAL FIBER INSULATION 1/4" THICK WOOD STRUCTURAL PANELS, 3/8" PARTICLE BOARD, 1/4" HARDBOARD OR 3/8" GYPSUM WALL BOARD OR CORROSION RESISTANT SHEET METAL HAVING A BASE METAL THICKNESS OF NOT LESS THAN .016"

THE ABOVE IGNITION BARRIER IS NOT REQUIRED WHERE THE FOAM PLASTIC INSULATION HAS BEEN TESTED IN ACCORDANCE WITH SECTION R316.6

FIBER-CEMENT, FIBER MATT REINFORCED CEMENT, GLASS MAT GYPSUM BACKERS OR FIBER REINFORCED GYPSUM BACKERS INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS SHALL BE USED AS BACKERS FOR WALL TILE IN TUB AND SHOWER AREAS AND WALL PANELS IN SHOWER AREAS. WATER RESISTANT GYPSUM BACKING BOARD MAY BE USED FOR CEILINGS WHERE FRAMING SPACING DOES NOT EXCEED 12" OC FOR 1/2" THICK OR 16" OC FOR 5/8" THICK GYPSUM WALL BOARD. WATER RESISTANT GYPSUM BOARD SHALL NOT BE INSTALLED OVER A CLASS I OR II VAPOR RETARDER. WATER RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY. REGULAT GYPSUM WALL BOARD IS PERMITTED UNDER TILE OR WALL PANELS IN OTHER WALL AND CEILING AREAS WHEN INSTALLED IN ACCORDANCE WITH TABLE R702.3.8

EXTERIOR OPENINGS EXPOSED TO WEATHER SHALL BE FLASHED SO AS TO BE WATERPROOF. APPROVED CORROSION RESISTANT FLASHING SHALL BE APPLIED SHINGLE FASHION IN SUCH A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL COMPONENTS. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH IN THE FOLLOWING LOCATIONS:
1. EXTERIOR WINDOW & DOOR OPENINGS.
2. AT INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS WITH PROJECTING LIPS UNDER STUCCO COPING.
3. UNDER AND AT ENDS OF MASONRY, WOOD OR METAL COPINGS & SILLS.
4. CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM.
5.WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD FRAME CONSTRUCTION.
6.AT WALL AND ROOF INTERSECTIONS.
7. AT BUILD-IN GUTTERS.

ROOF VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. OPEN VALLEY LININGS SHALL CONSIST OF NOT LESS THAN 26ga GALVANIZED STEEL, 28ga STAINLESS STEEL OR .0216 NOMINAL COLD ROLLED COPPER LININGS SHALL BE 24" WIDE MINIMUM AND PLACED OVER 36" WIDE LAYER OF ICE AND WATER SHIELD. CLOSED VALLEY LININGS *ASPHALT SHINGLES) SHALL BE A 36" WIDE LAYER OF ICED AND WATER SHIELD.

PROVIDE GRACE "ICE AND WATER SHIELD" UNDERLAYMENT AT ALL EVES AND RAKES FROM DRIP EDGE TO 2' MINIMUM INSIDE OF THE EXTERIOR WALL LINE, EXCEPT WHEN USING DIRECT APPLIED METAL ROOFING. FOR DIRECT APPLIED METAL ROOFING USE GRACE "ULTRA" UNDERLAYMENT, IT IS RECOMMENDED THAT THE ENTIRE ROOF BE COVERED.

PROVIDE BASE AND CAP, SIDEWALL AND OTHER FLASHINGS AT ALL ROOF AND VERTICAL SURFACE INTERSECTIONS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

NATURAL VENTILATION OF ALL HABITABLE ROOMS SHALL BE PROVIDED. THE MINIMUM OPENABLE ARE TO THE OUTDOORS SHALL BE 4% OF THE FLOOR AREA BEING VENTILATED

7. THERMAL AND MOISTURE PROTECTION - CONTINUED

EXCEPTION: AND APPROVED MECHANICAL VENTILATION SYSTEM IS PROVED CAPABLE OF PRODUCING 0.35 AIR CHANGES PER HOUR IN THE ROOF OR A WHOLE MECHANICAL VENTILATION SYSTEM IS INSTALLED CAPABLE OF SUPPLYING OUTDOOR VENTILATION AIR OF 15 CFM PER OCCUPANT.

VENTILATION OF BATHROOMS, WATER CLOSET COMPARTMENTS AND SIMILAR ROOMS WITHOUT OPERABLE WINDOW PROVIDING 1.5 SQUARE FEET OPENING SHALL BE PROVIDED BY A MECHANICAL VENTILATION SYSTEM CAPABLE OF PRODUCING 50 CFM FOR INTERMITTENT USE OR 20 CFM CONTINUOUS VENTILATION. VENTILATION AIR FROM THE SPACE SHALL BE DIRECTLY EXHAUSTED TO THE OUTSIDE. PROVIDE ENERGY-STAR QUALIFIED BATHROOM FANS WITH A RATING OF 1.5 SONES OR LESS WITH TIMER OR HUMIDISTAT CONTROL. SEE PLAN VIEW FOR REQUIRED CFM RATING.

ENCLOSED ATTICS AND ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED FROM THE ENTRANCE OF RAIN OR SNOW PER IRC SECTION R806.1. OPENINGS SHALL BE COVERED WITH 1/8" CORROSION RESISTANT MESH. WHERE EVE VENTS ARE INSTALLED, INSULATION OR BLOCKING SHALL NOT BLOCK THE AIR FLOW. A MINIMUM OF 1" SHALL BE PROVIDED BETWEEN THE INSULATION AND ROOF SHEATHING.

THE TOTAL NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE SPACE BEING VENTILATED EXCEPT THAT A REDUCTION OF 1/300 IS PERMITTED WHEN A CLASS I OR II VAPOR RETARDER IS INSTALLED ON THE WARM IN WINTER SIDE OF THE CEILING.

8. WINDOWS AND DOORS

CONTRACTOR SHALL SUPPLY AND INSTALL ALL DOORS, WINDOWS AND GLAZING AS DETAILED, SCHEDULED AND/ OR SPECIFIED IN THESE DOCUMENTS.

WINDOWS AND DOORS TO BE PELLA OR APPROVED EQUAL. GLAZING TO BE 3/4" INSULATING GLASS WITH INSUL LOW-E 366 COATING. UNIT U VALUE TO BE 0.30 MAXIMUM. ALL OPERABLE UNITS TO BE PROVIDED WITH SCREENS, CLAD COLOR PER OWNER. WINDOWS AND DOORS SHALL BE INSTALLED AND FLASHED IN ACCORDANCE WITH THE FENESTRATION MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, WHICH SHALL BE PROVIDED BY THE MANUFACTURER FOR EACH WINDOW OR DOOR.

WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72" ABOVE THE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING SHALL BE 24" MINIMUM ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED.

EXCEPTION - WINDOWS WHOSE OOPENING WILL NOT ALLOW A 4"Ø SPHERE TO PASS OR PROTECTED WITH WINDOW GUARDS THAT COMPLY WITH ASTM F 2006 OR F 2090.

OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID DOORS OR SOLID OR HONEY COMB CORE STEEL DOORS NOT LESS THAN 1-3/8" IN THICKNESS, OR 20-MIN FIRE-RATED DOORS. OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED.

ALL HABITABLE ROOMS SHALL HAVE AN AGGREGATE GLAZING AREA OF NOT LESS THEN 8% OF THE FLOOR AREA OF SUCH ROOMS.

EXCEPTION: THE GLAZED AREAS NEED NOT BE PROVIDED IN ROOMS WHERE ARTIFICIAL LIGHT IS PROVIDED CAPABLE OF PRODUCING AN AVERAGE ILLUMINATION OF 6 FOOT CANDLES.

BASEMENTS, HABITABLE ATTICS AND EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPERABLE EMERGENCY ESCAPE AND RESCUE OPENING. WHERE BASEMENTS CONTAIN ONE OR MORE SLEEPING ROOMS, EMERGENCY EGRESS AND RESCUE OPENINGS SHALL BE REQUIRED IN EACH SLEEPING ROOM. WHERE EMERGENCY ESCAPE AND RESCUE OPENINGS ARE REQUIRED THEY SHALL HAVE A MAXIMUM SILL HEIGHT OF 44" ABOVE THE FLOOR.

ALL EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET

EXCEPTION: GRADE FLOOR OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.0 SQUARE FEET.

THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24"

THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20"

EMERGENCY ESCAPE AND RESCUE OPENING SHALL BE OPERATIONAL FROM THE INSIDE OF THE ROOM WITHOUT THE USE OF KEYS, TOOLS OR SPECIAL KNOWLEDGE.

BARS, GRILLS, COVERS AND SCREENS OR SIMILAR DEVICES ARE PERMITTED TO BE PLACED OVER EMERGENCY ESCAPE AND RESCUE OPENINGS, BULKHEAD ENCLOSURES OR WINDOW WELLS PROVIDED THE MINIMUM CLEAR OPENING SIZE COMPLIES WITH IRC SECTION 310.1.1-310.1.3 AND SUCH DEVICEDS ARE RELEASABLE OR REMOVABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR FORCE GREATER THAN THAT WHICH IS REQUIRED FOR THE NORMAL OPERATION OF THE ESCAPE AND RESCUE OPENING.

SEE IRC SECTION R308.4 FOR HAZARDOUS LOCATIONS WHERE SAFETY GLAZING IS REQUIRED.

BUILDINGS WITH COMBUSTIBLE CEILING OR ROOF CONSTRICTION SHALL HAVE AN ATTIC ACCESS OPENING TO ATTIC AREAS THAT EXCEED 30 SQUARE FEET AND A VERTICAL HEIGHT OF 30". THE ROUGH FRAMED OPENING SHALL NOT BE LESS THAN 22"X30" AND SHALL BE LOCATED IN A HALLWAY OR READILY ACCESSIBLE LOCATION. A 30" MINIMUM UNOBSTRUCTED HEADROOM SHALL BE PROVIDED ABOVE THE ACCESS OPENING. ACCESS PANELS SHALL BE 30"HX22" W MINIMUM OR AS REQUIRED TO REMOVE EQUIPMENT WHEN USED TO ACCESS MECHANICAL EQUIPMENT.

9. FINISHES

CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS TO FINISH ROOMS AND BUILDING EXTERIOR AS DETAILED, SCHEDULED AND / OR SPECIFIED IN THESE DOCUMENTS.

ALL CONSTRUCTION ADHESIVES AND CALK SHOULD BE LOW VOC (<70G/L)

THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 5/8 " TYPE "X" GYPSUM APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN 5/8 " TYPE "X" GYPSUM BOARD OR ITS EQUIVALENT. WHERE THE SEPARATION IS A FLOOR-CEILING ASSEMBLY THE STRUCTURE SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED BY NOT LESS THAN 5/8 " TYPE "X" GYPSUM BOARD OR ITS EQUIVALENT. GARAGES LOCATED LESS THAN 3 FEET FROM A DWELLING UNIT ON THE SAME LOT SHALL BE PROTECTED WITH NO LESS THEN 5/8" TYPE "X" GYPSUM BOARD APPLIED TO THE INTERIOR SIDE OF EXTERIOR WALLS THAT ARE WITHIN THIS AREA. OPENINGS IN THESE WALLS ARE REGULATED BY SECTION R302.5

PENETRATIONS THROUGH THE SEPARATION REQUIRED BY SECTION R302.6 SHALL BE PROTECTED BY FILLING THE OPENING AROUND THE PENETRATING ITEM WITH APPROVED MATERIAL TO RESIST THE FREE PASSAGE OF FLAME OR PRODUCTS OF COMBUSTION.

10. ENERGY EFFICIENCY

THE SHERIDAN COUNTY REGIONAL BUILDING DEPARTMENT HAS ADOPTED THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) CODE MINIMUM INSULATION VALUES SET IN TABLE 402.1.1 & 402.1.3. COMPLYING WITH OTHER SECTIONS OF THIS CODE IS RECOMMENDED BUT NOT REQUIRED. AS SUCH, ONLY SECTIONS 402.1 THROUGH 402.3, 403.2.1 AND 404.1 (PRESCRIPTIVE PATH) WILL BE INCLUDED IN THESE DOCUMENTS FOR REFERENCE.

TABLE 402.1.1 & 402.1.3 FOR CLIMATE ZONE 6

FEN. U-FACTOR	SKYLIGHT U-FACTOR	CEILING	WOOD FRAME WALL	MASS WALL	FLOOR	BASEMENT WALL	SLAB DEPTH	CRWALSPACE WALL
		R-60	R-30:20+5	R-15/20	R-30	R-15c:19:13+5	R-10c, 4FT	R-15c:19:13+5
0.30	0.55	0.024	0.045	0.060	0.033	0.050		0.055

THERE ARE NO REQUIREMENTS FOR SOLAR HEAT GLAZING COEFFICIENTS
a. R-VALUES SHOWN ARE MINIMUM, U-FACTORS SHOWN ARE MAXIMUMS,
c. THE FIRST R-VALUE IS FOR CONTINUOUS INSULATION, THE SECOND R-VALUE IS FOR CAVITY INSULATION, EITHER SYSTEM MEETS THE REQUIREMENT
d. R-5 SHALL BE ADDED TO THE SLAB EDGE R-VALUE FOR HEATED SLABS
g. OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY, R-19 MINIMUM

THE THICKNESS OF BLOWN IN OR SPRAYED (FIBERGLASS OR CELLULOSE) SHALL BE WRITTEN IN INCHES ON MARKERS WITH NUMBER 1" TALL. MARKERS HALL FACE THE ATTIC ACCESS OPENING AND PROVIDED FOR EACH 300 SF OF ATTIC AREA(N1101.4.1)

RECOMMENDED - A PERMANENT CERTIFICATE SHALL BE POSTED ON OR IN THE ELECTRICAL DISTRIBUTION PANEL OR THE WALL NEAREST THE FURNACE/ BOILER LISTING THE PREDOMINANT R-VALUES OF INSULATION INSTALLED BY COMPONENT, U-FACTORS FOR FENESTRATION AND THE TYPE AND EFFICIENCY OF HEATING, COOLING AND WATER HEATING EQUIPMENT.

WHERE CEILINGS HAVE ATTIC SPACES, R-49 SHALL BE DEEMED TO SATISFY THE REQUIREMENT FOR R-60 WHENEVER THE FULL HEIGHT OF UNCOMPRESSED R-49 INSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EVES.

RECOMMENDED - ACCESS HATCHES & DOORS FROM CONDITIONED SPACES TO UNCONDITIONED SPACES SHALL BE WEATHER STRIPPED & INSULATED TO A LEVEL EQUIVALENT TO THE INSULATION ON THE SURROUNDING SURFACES. PROVIDE BATTIC DOOR "EX HATCH ACCESS SCUTTLE DOOR" R-42 FOR 22"X30" OPENING OR "ATTIC PULL DOWN STAIN LADDER COVER" R-50 FOR 22"X42" LADDERS. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

RECOMMENDED - FLOOR INSULATION SHALL BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH HE UNDERSIDE OF THE SUBFLOOR DECKING

SLAB ON GRADE FLOORS SHALL BE INSULATED IN ACCORDANCE WITH TABLE 402.1.1. THE INSULATION SHALL EXTEND DOWNWARD FROM THE TOP OF THE SLAB ON THE OUTSIDE OR INSIDE OF THE FOUNDATION WALL. INSULATION LOCATED BELOW GRADE SHALL BE EXTENDED UNDER THE SLAB OR OUT FROM THE BUILDING. INSULATION EXTENDING AWAY FROM THE BUILDING SHALL BE PROTECTED BY PAVEMENT OR A MINIMUM OF 10" OF SOIL. THE TOP EDGE OF INSULATION INSTALLED BETWEEN THE EXTERIOR WALL AND INTERIOR SLAB SHALL E PERMITTED TO BE CUT AT A 45° ANGLE

AS AN ALTERNATIVE TO INSULATING FLOORS OVER CRAWL SPACES, CRAWLSPACE WALLS SHALL BE PERMITTED TO BE INSULATED WHEN THE CRAWLSPACE IS NOT VENTED TO THE OUTSIDE.

RECOMMENDED - THE BUILDING THERMAL ENVELOPE SHALL BE DURABLE SEALED TO LIMIT INFILTRATION. THE FOLLOWING SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED WITH AN AIR BARRIER MATERIAL, SUITABLE FILM OR SOLID MATERIAL: JOINTS, SEAMS, PENETRATIONS; SITE BUILT WINDOWS, DOOR AND SKYLIGHTS; OPENINGS BETWEEN WINDOW AND DOOR ASSEMBLIES AND OTHER RESPECTIVE JAMBS AND FRAMING; UTILITY PENETRATIONS; DROPPED CEILINGS OR CHASES ADJACENT TO THE THERMAL ENVELOPE; KNEE WALLS; WALLS AND CEILINGS SEPARATING A GARAGE FROM CONDITIONED SPACES; BEHIND TUBS AND SHOWER ON EXTERIOR WALLS; COMMON WALLS BETWEEN DWELLING UNITS; ATTIC ACCESS OPENINGS; RIM JOIST JUNCTION AND OTHER SOURCES OF AIR INFILTRATION. BUILDING ENVELOPE TIGHTNESS AND INSULATION INSTALLATION SHALL BE CONSIDERED ACCEPTABLE WHEN ALL ITEMS LISTED IN TABLE 402.4.2 ARE FIELD VERIFIED AFTER SPECIAL INSPECTION BY AN APPROVED PARTY.

RECOMMENDED - WINDOWS, SKYLIGHTS AND SLIDING GLASS DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.3 CFM PER SQUARE FOOT AND SWINGING DOORS NOT MORE THAN 0.5 CFM PER SQUARE FOOT.

BRIDGER ENGINEERING AND DESIGN
SHERIDAN WYOMING
307-752-9146

Professional Engineer
KYLE A. BRIDGER
17110
Date 2022-11-16
WYOMING
"STRUCTURE ONLY"

SPECIFICATIONS
GLOCK RESIDENCE
30 GENEVA LN
SHERIDAN, WY 82801
OWNER/CONTRACTOR 480.239.6512

Job #	2022-22
File	22.022
Date	2022.10.24
Drawn	KAB
Checked	KAB
Rel'd	20-17-2022
Reved	

Sheet Number
SP1

10. ENERGY EFFICIENCY - CONTINUED

RECOMMENDED - RECESSED LUMINARIES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES, SHALL BE IC RATED & LABELED AS MEETING ASTM E 283 AND SEALED W/ A GASKET OR CAULK BETWEEN THE HOUSING AND WALL OR CEILING COVERING.

RECOMMENDED - MECHANICAL SYSTEM PIPING CAPABLE OF CARRYING FLUIDS ABOVE 105°F OR BELOW 55°F SHALL BE INSTALLED TO R-3 MINIMUM

RECOMMENDED - ALL CIRCULATING SERVICE HOT WATER PIPING SHALL BE INSULATED TO R-2 MINIMUM SYSTEMS SHALL INCLUDE AN AUTOMATIC OR READILY ACCESSIBLE MANUAL SWITCH TO TURN OFF THE CIRCULATING PUMP WHEN THE SYSTEM IS NOT IN USE.

RECOMMENDED - SUPPLY AND RETURN DUCTS SHALL BE INSULATED TO A MINIMUM OF R-8. DUCTS IN FLOOR TRUSSES SHALL BE INSULATED TO A MINIMUM OF R-6. EXCEPTION - DUCTS OR PORTIONS THEREOF LOCATED COMPLETELY INSIDE THE BUILDING THERMAL ENVELOPE.

RECOMMENDED - ALL DUCTS, AIR HANDLERS, FILTER BOXES AND BUILDING CAVITIES USED AS DUCTS HALL BE SEALED, JOINTS AND SEAMS SHALL COMPLY WITH SECTION M1601.3.1 OF THE INTERNATIONAL RESIDENTIAL CODE. MAXIMUM DUCT LEAKAGE SHALL BE 10% FOR DUCTS WITHIN THE BUILDING ENVELOPE AND 5% FOR DUCTS OUTSIDE THE BUILDING THERMAL ENVELOPE.

RECOMMENDED - BUILDING FRAMING CAVITIES SHALL NOT BE USED AS SUPPLY DUCTS.

RECOMMENDED - OUTDOOR AIR INTAKES AND EXHAUSTS SHALL HAVE AN AUTOMATIC OR GRAVITY DAMPER THAT CLOSES WHEN THE VENTILATION SYSTEM IS NOT OPERATING

RECOMMENDED - HEATING AND COOLING EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH SECTION M1401.3 OF THE IRC ; ACCA MANUAL J OR OTHER APPROVED METHODOLOGY. MECHANICAL CONTRACTOR TO PROVIDE CALCULATIONS BY DEFERRED SUBMITTAL.

RECOMMENDED - A MINIMUM OF 100% OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH EFFICACY LAMPS

RECOMMENDED - PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE CONTROLLED IWTH EITHER A DIMMER, AND OCCUPANT SENSOR CONTROL OR OTHER CONTROL THAT IS INSTALLED OR BUILT INTO THE FIXTURE. LIGHTING CONTROLS SHALL NOT BE REQUIRED FOR BATHROOMS, HALLWAYS, EXTERIOR LIGHTING FIXTURES & LIGHTING DESIGNED FOR SAFETY OR SECURITY

RECOMMENDED - PERMANETLY INSTALLED EXTERIOR LIGHTING WHOS POWER IS GREATER THAN 30 WATTS SHALL BE CONTROLLED BY A MONUAL ON OFF SWITH WICH PERMITS AUTOMATIC SHOT-OFF ACTIONS, LIGHTING SHALL BE AUTOMATICALLY SHUT OFF WHEN DAYLIGHT IS PRESENT AND SATISFIES THE LIGHTING NEEDS.

11. MECHANICAL

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT TO INSTALL VENTILATION, HEATING AND AIR CONDITIONING EQUIPMENT; DUCTING AND ALL RELATED CONTROLS. ALL WORK SHALL COMPLY WITH THE IRC PART V-MECHANICAL CHAPTERS 12-23, STATE AND LOCAL CODES AND ORDINANCES. ALL EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER 'S PRINTED INSTRUCTIONS AND LOCAL CODES.

THE MECHANICAL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR THE FINAL DESIGN OF THE SYSTEMS AS WELL AS THE EXECUTION OF THE WORK ACCORDING TO ACCEPTED STANDARDS OF ENGINEERING, WORKMANSHIP AND REGULATORY REQUIREMENTS. MECHANICAL CONTRACTORS TO PROVIDE ADDITIONAL DRAWINGS, SPECIFICATIONS AND ENGINEER 'S CERTIFICATION AS REQUIRED BY FEDERAL, STATE OR LOCAL LAWS AND BUILDING DEPARTMENT JURISDICTION.

HEATING AND COOLING EQUIPMENT AND APPLIANCES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATIONS INSTRUCTION AND THE REQUIREMENTS OF IRC CHAPTERS 13 & 14

EXHAUST SYSTEMS SHALL BE INSTALLED PER CHAPTER 15

SOLID FUEL BURNING APPLIANCES SHALL BE PROVIDED WITH COMBUSTION AIR IN ACCORDANCE WITH THE APPLIANCE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE REQUIREMENTS FOR COMBUSTION AIR FOR GAS FIRED APPLIANCES SHALL BE IN ACCORDANCE WITH CHAPTERS 24.

FUEL BURNING APPLIANCES SHALL BE VENTED TO THE OUTDOORS IN ACCORDANCE WITH THEIR LISTING AND LABEL AND MANUFACTURER 'S INSTALLATION INSTRUCTIONS PER IRC CHAPTER 18.

FREE STANDING OR BUILT-IN RANGES SHALL HAVE A VERTICAL CLEARANCE ABOVE THE COOKING TOP OF NOT LESS THAN 30 INCHES.

BOILERS SHALL BE INSTALLED IN ACCORDANCE WITH IRC CHAPTER 20.
WATER HEATERS SHALL BE INSTALLED IN ACCORDANCE WITH IRC CHAPTER 20.
HYDRONIC PIPING SYSTEMS SHALL BE INSTALLED PER IRC CHAPTER 21.
SOLAR ENERGY SYSTEMS SHALL BE DESIGNED, CONSTRUCTED AND INSTALLED PER IRC CHAPTER 23.
GAS FIRED APPLIANCES SHALL BE VENTED IN ACCORDANCE WITH IRC CHAPTER 24.

THE HOUSE AS PROPOSED WILL UTILIZE A FORCED AIR COOLING SYSTEM. FORCED AIR UNIT (FAU) MINIMUM EFFICIENCY SHALL BE 90% AFUE. ALL SUPPLY AND RETURN DUCTING SHALL BE SEALED WITH MASTIC AT JOISTS AND BE SUBSTANTIALLY AIR TIGHT. (250 CFM & 50 PASCAL MAXIMUM). FAU SHALL BE ISOLATED FROM DUCTING WITH RUBBER JOINTS OR BOOTS. LATERALS SHALL BE SIZED TO PREVENT EXCESSIVE DELIVERY DUCT VELOCITY (5 FEET/ SECOND MAXIMUM).

THIS HOUSE AS PROPOSED WILL UTILIZE A RADIANT FLOOR HYDRONIC SYSTEM WITH A BOILER AND SIDE ARM WATER STORAGE TANK

HYDRONIC TUBING WILL BE ATTACHED TO REINFORCEMENT AT ALL SLAB ON GRADE LOCATIONS OR ATTED TO UNDERSIDE OF FLOOR SHEATHING. TUBING SHALL BE CROSSED LINKED POLYETHYLENE WITH OXYGEN INHIBITOR SUCH AS BEX OR WIRSBRO.

RADIANT FLOOR HEATING SYSTEMS SHALL HAVE A THERMAL BARRIER IN ACCORDANCE WITH SECTIONS M2103.2.1-4

SLAB ON GRADE APPLICATIONS SHALL HAVE A MINIMUM OF R-5 INSULATION BELOW THE PIPING AND ASPHALT EXPANSION JOINT MATERIAL OR SIMILAR INSULATING MATERIAL WHERE THE HEATED SLAB MEETS A FOUNDATION WALL OR OTHER CONDUCTIVE SLAB.

SUSPENDED FLOOR APPLICATIONS SHALL HAVE A MINIMUM OF R-11 INSULATION BELOW THE PIPING.

PROVIDE PREFABRICATED FIREPLACE, NATURAL GAS FUELED AND DIRECT VENTED THRU THE WALL AT THE LOCATION NOTED ON THE PLANS. APPLIANCE TO BE INSTALLED PER MANUFACTURER 'S INSTRUCTIONS AND LOCAL CODES.

EVERY CHIMNEY OR FLUE SHALL BE EQUIPPED WITH AN APPROVED SPARK ARRESTER.

FUEL FIRED WATER HEATERS SHALL NOT BE INSTALLED IN ROOMS USED AS A STORAGE CLOSET. WATER HEATERS INSTALLED IN A BEDROOM OR BATHROOM SHALL BE INSTALLED IN A SEALED ENCLOSURE TO THAT COMBUSTION AIR WILL NOT BE TAKEN FROM THE LIVING SPACE. DIRECT VENT WATER HEATERS ARE NOT REQUIRED TO BE INSTALLED WITHIN AN ENCLOSURE.

A LUMINAIRE CONTROLLED BY A SWITCH LOCATED AT THE PASSAGEWAY OPENING AND A RECEPTACLE OUTLET SHALL BE INSTALLED AT OR NEAR THE APPLIANCE.

12. PLUMBING

CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS TO INSTALL ALL PERIMETER STORM DRAINAGE, FLOOR DRAINS, PLUMBING, RATED FIXTURES, GAS PIPING AND RADON GAVE VENT PIPING. ALL WORK SHALL COMPLY WITH IRC PART VI - FUEL GAS, CHAPTER 24 AND PART VII - PLUMBING, CHAPTERS 25 THRU 33, STATE AND LOCALE CODES AND ORDINANCES.

WATER HEATERS SHALL BE LOCATED PER IRC CHAPTER 20 AND SHALL BE INSTALLED IN ACCORDANCE WITH IRC CHAPTERS 25 & 28
WATER SUPPLY AND DISTRIBUTION SHALL COMPLY WITH IRC CHAPTER 29.
SANITARY DRAINAGE SHALL COMPLY WITH IRC CHAPTER 20
VENTING SHALL COMPLY WITH IRC CHAPTER 31
FIXTURE TRAPS SHALL COMPLY WITH IRC CHAPTER 32.

THE MAXIMUM WATER CONSUMPTION FLOW RATES AND QUANTITIES FOR ALL PLUMBING FIXTURES AND FIXTURE FITTINGS SHALL BE IN ACCORDANCE WITH TABLE P2903.2 HIGH EFFICIENCY TOILETS, WHEN SPECIFIED, SHALL BE DUAL FLUSH OR <1.3 GPF.

NO WATER CLOSET SHALL BE SET CLOSER THAN 15 " FROM ITS CENTER TO ANY SIDE WALL OR OBSTRUCTION. THE CLEAR SPACE IN FRONT OF THE CLOSET SHALL NOT BE LESS THAN 21 ". PROVIDE ELONGATED BOWLS UON.

SHOWER COMPARTMENTS SHALL HAVE AT LEAST 900 SQUARE INCHES OF INTERIOR CROSS SECTIONAL AREA AND SHALL NOT BE LESS THAN 30 " IN MINIMUM DIMENSION. SHOWER FLOORS AND WALLS ABOVE BATH TUBS WITH INSTALLED SHOWER HEADS AND SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NON-ABSORBENT SURFACE EXTENDING TO A HEIGHT OF 6 '-0" MINIMUM ABOVE THE FLOOR.

PROVIDE CAST-IN-PLACE CAST IRON FLOOR DRAINS WITH INTEGRAL SAND TRAP, PIPED & 1% MINIMUM SLOPE TO DAYLIGHT IN THE GARAGE. DAYLIGHTED END SHALL BE SCREENED AND PROTECTED WITH ROCK RIPRAP. IF EXPANSIVE SOILS ARE PRESENT, DO NOT CONNECT FLOOR DRAIN OUTFALL TO FOUNDATION PERIMETER DRAIN UNTIL 10 FEET AWAY FROM THE FOUNDATION.

PROVIDE FLOOR DRAIN PIPED TO HOUSE SEWER IN ALL LAUNDRY ROOM UNLESS WASHING MACHINE IS PLACED IN A WATER TIGHT PAN COMPLYING WITH IRC SECTION P2801.5.

WHERE WATER HEATERS OR HOT WATER STORAGE TANKS ARE INSTALLED IN LOCATIONS WHERE LEAKAGE WOULD CAUSE DAMAGE, THE TANK OR WATER HEATER SHALL BE INSTALLED IN A GALVANIZED STEEL PAN PER IRC P2801.5. LISTED PANS SHALL COMPLY WITH CSA LC3. THE PAN SHALL BE DRAINED BY AND INDIRECT WASTE PIPE PER IRC P2801.5.1 AND TERMINATED OVER A SUITABLY LOCATED INDIRECT WASTE RECEPTOR OR EXTENDED TO THE BUILDING EXTERIOR AND TERMINATED BETWEEN 6" AND 24" ABOVE THE ADJACENT GROUND SURFACE PER IRC P2801.5.2

PROVIDE (2) FROST PROOF HOSE BIBBS AT LOCATIONS NOTED ON THE PLANS

APPLIANCES AND EQUIPMENT USED FOR HEATING WATER OR STORING HOT WATER SHALL BE PROTECTED BY A PVR AND TRV OR COMBINATION P/TRV PER IRC SECTION P2803 AND SHALL NOT BE DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM. THE DISCHARGE SHALL BE THROUGH AN AIR GAP TO AN INDIRECT WASTE RECEPTOR OR OTHER APPROVED MEANS.

13. ELECTRICAL

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT TO INSTALL ALL WIRING AND RELATED FIXTURES. ALL WORK SHALL COMPLY WITH IRC PART VIII - ELECTRICAL, CHAPTERS 33 THRU 41, THE 2017 NEC, STATE AND LOCAL CODES AND ORDINANCES.

THE ELECTRICAL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR THE FINAL DESIGN OF THE SYSTEMS AS WELL AS THE EXECUTION OF THE WORK ACCORDING TO ACCEPTED STANDARDS OR ENGINEERING, WORKMANSHIP AND REGULATORY REQUIREMENTS. ELECTRICAL CONTRACTORS TO PROVIDE ADDITIONAL DRAWINGS, SPECIFICATIONS AND ENGINEERS CERTIFICATION AS REQUIRED BY FEDERAL, STATE OR LOCAL LAWS AND BUILDING DEPARTMENT JURISDICTION.

MOUNT METER SOCKET AT 5'-6" ABOVE FINISHED GRADE,

PROVIDE CONCRETE ENCASED ELECTRODE (UFER GROUND) PER IRC SECTION E3608.1.2

PROVIDE 200 AMP 42 CIRCUIT SERVICE PANEL (OVER CURRENT DEVICE) WITH DISCONNECT, AT THE LOCATION NOTED ON PLANS. SERVICE PANELS SHALL NOT BE LOCATED IN THE VICINITY OF EASILY IGNITABLE MATERIALS, SUCH AS CLOTHES CLOSET OR IN BATHROOMS. SERVICE CONDUCTORS AND EQUIPMENT TO BE SIZED PER IRC CHAPTER 36.

A MINIMUM OF (2) 20 AMP BRANCH CIRCUITS SHALL BE PROVIDED TO SERVE RECEPTACLES LOCATED IN THE KITCHEN, PANTRY, BREAKFAST AREA AND DINING AREAS. THE KITCHEN COUNTER TOP RECEPTACLES SHALL BE SERVED BY NOT LESS THAN (2) 20 AMP SMALL APPLIANCE BRANCH CIRCUITS.

A MINIMUM OF (1) 20 AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SERVE RECEPTACLES LOCATED IN THE LAUNDRY AREA AND SHALL SERVE ONLY RECEPTACLES LOCATED IN THE LAUNDRY AREA.

A MINIMUM OF (2) 50 AMP BRANCH CIRCUITS AND (1) 30 AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SERVE THE RV GARAGE.

A MINIMUM OF (1) 20 AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SERVE RECEPTACLES LOCATED IN THE BATHROOM AND SHALL SERVE ONLY RECEPTACLES LOCATED IN THE BATHROOM.

RECEPTACLES ABOVE COUNTERS IN KITCHEN SHALL BE SPACED NOT MORE THAN 4 FEET OC AND WITHIN 2 FEET OF EACH END, INCLUDING ISLANDS AND PENINSULAR. PROVIDE A MINIMUM OF (1) RECEPTACLE PER COUNTER SPACE OF 12 " OR GREATER.

PROVIDE AT LEAST (1) RECEPTACLE OUTLET IN WEATHER PROOF HOUSING, ACCESSIBLE AT GRADE LEVEL AND NOT MORE THAN 6'-6" ABOVE GRADE AT THE FRONT AND AT THE BACK OF EACH DWELLING.

ALL 125 VOLT, SINGLE PHASE RECEPTACLES INSTALLED IN BATHROOMS, GARAGES, OUTDOORS, CRAWLSPACES, UNFINISHED BASEMENTS, KITCHEN COUNTERTOP SURFACES AND WITHIN 6 FEET OF LAUNDRY, UTILITY OR BAR SINKS, (EXCEPT DEDICATED USES) SHALL BE GROUND FAULT CIRCUIT-INTERRUPTER PROTECTED FOR PERSONNEL. RECEPTACLES IN GARAGES TO BE MOUNTED 42 " MINIMUM ABOVE FINISHED FLOOR.

ALL BRANCH CIRCUITS INSTALLED IN FAMILY, DINING, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS AND SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A COMBINATION TYPE ARC-FAULT CIRCUIT INTERRUPTER. KITCHENS, BATHS AND GARAGES ARE EXEMPT FROM THIS REQUIREMENT.

LUMINARIES INSTALLED IN CLOTHES CLOSETS SHALL BE LIMITED TO SURFACE MOUNTED OR RECESSED INCANDESCENT LUMINARIES WITH COMPLETELY ENCLOSED LAMPS, SURFACE MOUNTED OR RECESSED FLORESCENT LUMINARIES AND SURFACE MOUNTED FLUORESCENT OR LED LUMINARIES IDENTIFIED AS SUITABLE FOR INSTALLATION WITHIN THE STORAGE AREA. SURFACE MOUNTED INCANDESCENT OR LED LUMINARIES SHALL BE MOUNTED ON THE WALL ABOVE THE DOOR OR ON THE CEILING PROVIDED THERE IS A MINIMUM CLEARANCE OF 12 INCHES BETWEEN THE FIXTURE AND THE NEAREST POINT OF A STORAGE AREA. INCANDESCENT FIXTURES WITH OPEN OR PARTIALLY ENCLOSED LAMPS, PENDANT FIXTURES AND LAMP HOLDERS ARE NOT PERMITTED.

PROVIDE (1) 20 AMP CIRCUIT FOR FUTURE USE IN THE ATTIC AND IN THE CRAWL SPACE. TERMINATE THE CIRCUIT WITH A KEYLESS PORCELAIN FIXTURE.

PROVIDE DEDICATED 15 AMP CIRCUIT FOR REFRIGERATORS AND FREEZERS.

SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
1. IN EACH SLEEPING ROOM.
2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.
3. ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS BUT NOT INCLUDING CRAWLSPACES AND UNINHABITABLE ATTICS.

WHEN MORE THAN ONE SMOKE ALARM IS REQUIRED THE DEVICE SHALL BE INTERCONNECTED IN SUCH A MANNER THAT ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE INDIVIDUAL UNIT. ALARMS SHALL BE HARDWIRED WITH BATTERY BACKUP.

ALL SMOKE ALARMS SHALL BE LISTED AND INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND THE HOUSEHOLD FIRE WARNING EQUIPMENT PROVISIONS OF NFPA 72.

FOR NEW CONSTRUCTION AN APPROVED CARBON MONOXIDE ALARM SHALL BE INSTALLED OUTSIDE EACH SEPARATE SLEEPING AREA IN DWELLING UNITS WITHIN WHICH FUEL FIRED APPLIANCES ARE INSTALLED OR HAVE ATTACHED GARAGES.

SINGLE STATION CARBON MONOXIDE ALARMS SHALL BE LISTED AS COMPLYING WITH UL 2034 AND INSTALLED IN ACCORDANCE WITH THIS CODE AND THE MANUFACTURER 'S INSTALLATION INSTRUCTIONS.

PROVIDE 1"Ø MINIMUM ELECTRICAL CONDUIT FOR FUTURE PHOTOVOLTAIC PANEL INSTALLATION FROM THE ATTIC TO JUNCTION BOX NEAR THE ELECTRICAL PANEL.

SPECIAL NOTICE

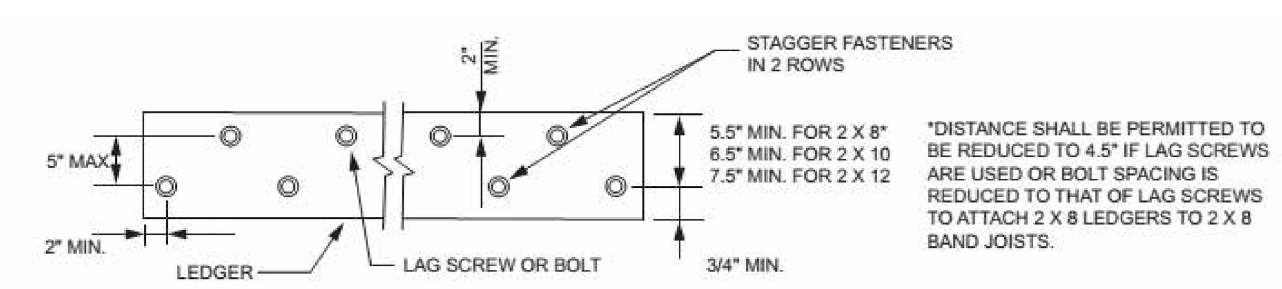
ANY DISCREPANCY IN DIMENSIONS AND/OR DRAWINGS AND/OR GRAPHIC REPRESENTATION AND/OR FIELD MEASUREMENTS SHALL BE BROUGHT TO THE ATTENTION OF BRIDGER ENGINEERING & DESIGN PRIOR TO COMMENCEMENT OF ANY WORK.

ALL SOILS ISSUES SHOULD BE BROUGHT TO THE ATTENTION OF THE SOILS ENGINEER. THE OWNER OR HIS REPRESENTATIVE ARE RESPONSIBLE FOR FOLLOWING THE SOILS REPORT, CONTACTING THE SOILS ENGINEER AND FOLLOWING THEIR RECOMMENDATIONS AND TO HAVE READ THE SOILS REPORT AND RECOGNIZE THE RISKS AND LIMITATIONS STATED THEREIN.

CONTACT THE SOILS ENGINEER AT TIME OF EXCAVATION TO VERIFY THAT ALL STRUCTURAL CONCRETE IS PLACED ON SUITABLE BEARING MATERIAL.

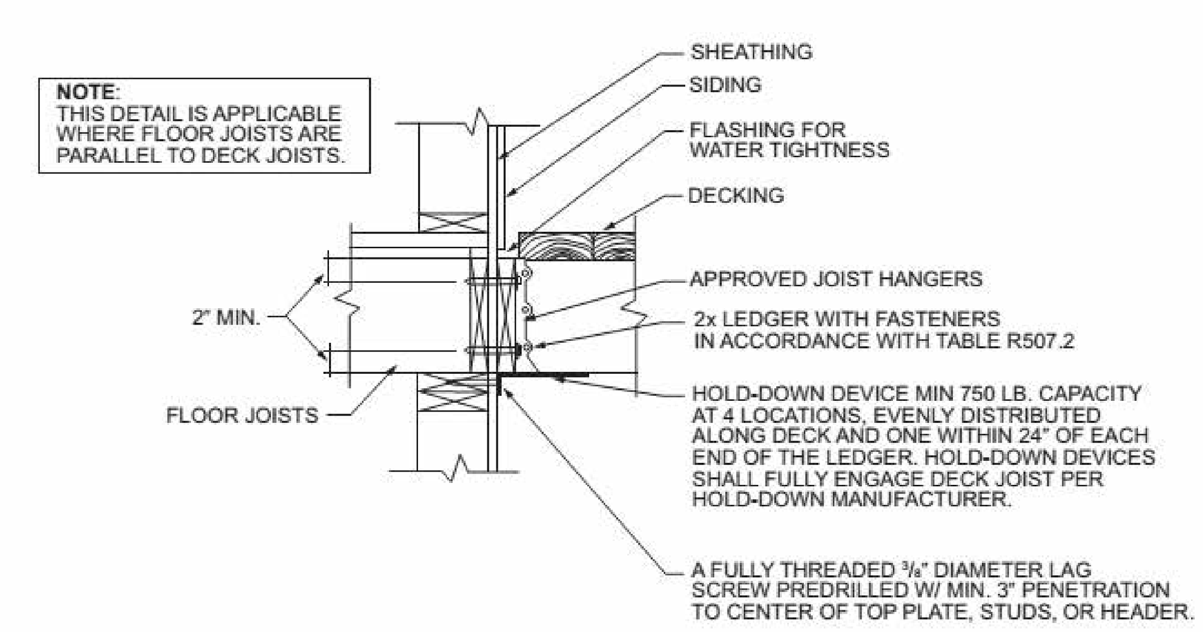
BUILDERS PLANS

THE CONTRACTOR WARRANTS TO BRIDGER ENGINEERING & DESIGN THAT HE POSSESSES THE PARTICULAR COMPETENCE AND SKILL IN CONSTRUCTION NECESSARY TO BUILD THIS PROJECT WITHOUT FULL DESIGN SERVICES, AND FOR THE REASON THAT THE CONTRACTOR WISHES TO RELY UPON HIS OWN COMPETENCE. THE CONTRACTOR OR OWNER HAS RESTRICTED BRIDGER ENGINEERING & DESIGNS SCOPE OF PROFESSIONAL SERVICES. IN RELIANCE ON THE CONTRACTOR 'S WARRANTY AND AT THE EXPRESS REQUEST OF THE CONTRACTOR OR OWNER BRIDGER ENGINEERING & DESIGN HAS UNDERTAKEN A LIMITED SCOPE OF PROFESSIONAL SERVICES. THE CONSTRUCTION DOCUMENTS PROVIDED BY THE LIMITED SERVICES SHALL BE TERMED "BUILDER'S PLANS" IN RECOGNITION OF THE CONTRACTOR'S SOPHISTICATION. CONSTRUCTION WILL REQUIRE THAT THE CONTRACTOR ADAPT THE "BUILDER'S PLANS" TO THE FIELD CONDITIONS ENCOUNTERED AND MAKE LOGICAL ADJUSTMENT IN FIT, FORM, DIMENSION AND QUANTITY THAT ARE TREATED ONLY GENERALLY BY THE "BUILDER'S PLANS" IN THE EVENT ADDITIONAL DETAILS OR GUIDANCE ARE NEEDED BY THE CONTRACTOR OR OWNER, FOR CONSTRUCTION OR ANY ASPECT OF THE PROJECT, HE SHALL IMMEDIATELY NOTIFY BRIDGER ENGINEERING & DESIGN. FAILURE TO GIVE A SIMPLE NOTICE SHALL RELIEVE BRIDGER ENGINEERING & DESIGN OF RESPONSIBILITY FOR THE CONSEQUENCES.



For SI: 1 inch = 25.4 mm.

FIGURE R507.2.1(1) PLACEMENT OF LAG SCREWS AND BOLTS IN LEDGERS



For SI: 1 inch = 25.4 mm.

FIGURE R507.2.1(2) PLACEMENT OF LAG SCREWS AND BOLTS IN BAND JOISTS

TABLE R602.3(1) FASTENING SCHEDULE

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER[a, b, c]	SPACING AND LOCATION
	Roof		
1	Blocking between ceiling joists or rafters to top plate	4-8d box (2½″ × 0.113″); or 3-8d common (2½″ × 0.131″); or 3-10d box (3″ × 0.128″); or 3-3″ × 0.131″ nails	Toe nail
2	Ceiling joists to top plate	4-8d box (2½″ × 0.113″); or 3-8d common (2½″ × 0.131″); or 3-10d box (3″ × 0.128″); or 3-3″ × 0.131″ nails	Per joist, toe nail
3	Ceiling joist not attached to parallel rafter, laps over partitions [see Sections R802.3.1, R802.3.2 and Table R802.5.1(9)]	4-10d box (3″ × 0.128″); or 3-16d common (3½″ × 0.162″); or 4-3″ × 0.131″ nails	Face nail
4	Ceiling joist attached to parallel rafter (heel joint) [see Sections R802.3.1 and R802.3.2 and Table R802.5.1(9)]	Table R802.5.1(9)	Face nail
5	Collar tie to rafter, face nail or 1¼″ × 20 ga. ridge strap to rafter	4-10d box (3″ × 0.128″); or 3-10d common (3″ × 0.148″); or 4-3″ × 0.131″ nails	Face nail each rafter
6	Rafter or roof truss to plate	3-16d box nails (3½″ × 0.135″); or 3-10d common nails (3″ × 0.148″); or 4-10d box (3″ × 0.128″); or 4-3″ × 0.131″ nails	2 toe nails on one side and 1 toe nail on opposite side of each rafter or truss[i]
7	Roof rafters to ridge, valley or hip rafters or roof rafter to minimum 2″ ridge beam	4-16d (3½″ × 0.135″); or 3-10d common (3½″ × 0.148″); or 4-10d box (3″ × 0.128″); or 4-3″ × 0.131″ nails	Toe nail
		3-16d box 3½″ × 0.135″); or 2-16d common (3½″ × 0.162″); or 3-10d box (3″ × 0.128″); or 3-3″ × 0.131″ nails	End nail
	Wall		
8	Stud to stud (not at braced wall panels)	16d common (3½″ × 0.162″)	24″ o.c. face nail
		10d box (3″ × 0.128″); or 3″ × 0.131″ nails	16″ o.c. face nail
9	Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d box (3½″ × 0.135″); or 3″ × 0.131″ nails	12″ o.c. face nail
		16d common (3½″ × 0.162″)	16″ o.c. face nail
10	Built-up header (2″ to 2″ header with ½″ spacer)	16d common (3½″ × 0.162″)	16″ o.c. each edge face nail
		16d box (3½″ × 0.135″)	12″ o.c. each edge face nail
11	Continuous header to stud	5-8d box (2½″ × 0.113″); or 4-8d common (2½″ × 0.131″); or 4-10d box (3″ × 0.128″)	Toe nail
12	Top plate to top plate	16d common (3½″ × 0.162″)	16″ o.c. face nail
		10d box (3″ × 0.128″); or 3″ × 0.131″ nails	12″ o.c. face nail
13	Double top plate splice for SDCs A-D_2 with seismic braced wall line spacing < 25′	8-16d common (3½″ × 0.162″); or 12-16d box (3½″ × 0.135″); or 12-10d box (3″ × 0.128″); or 12-3″ × 0.131″ nails	Face nail on each side of end joint (minimum 24″ lap splice length each side of end joint)
	Double top plate splice SDCs D_0, D_1, or D_2; and braced wall line spacing ≥25′	12-16d (3½″ × 0.135″)	

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER[a, b, c]	SPACING AND LOCATION
14	Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	16d common (3½″ × 0.162″)	16″ o.c. face nail
		16d box (3½″ × 0.135″); or 3″ × 0.131″ nails	12″ o.c. face nail
15	Bottom plate to joist, rim joist, band joist or blocking (at braced wall panel)	3-16d box (3½″ × 0.135″); or 2-16d common (3½″ × 0.162″); or 4-3″ × 0.131″ nails	3 each 16″ o.c. face nail 2 each 16″ o.c. face nail 4 each 16″ o.c. face nail
16	Top or bottom plate to stud	4-8d box (2½″ × 0.113″); or 3-16d box (3½″ × 0.135″); or 4-8d common (2½″ × 0.131″); or 4-10d box (3″ × 0.128″); or 4-3″ × 0.131″ nails	Toe nail
		3-16d box (3½″ × 0.135″); or 2-16d common (3½″ × 0.162″); or 3-10d box (3″ × 0.128″); or 3-3″ × 0.131″ nails	End nail
17	Top plates, laps at corners and intersections	3-10d box (3″ × 0.128″); or 2-16d common (3½″ × 0.162″); or 3-3″ × 0.131″ nails	Face nail
18	1″ brace to each stud and plate	3-8d box (2½″ × 0.113″); or 2-8d common (2½″ × 0.131″); or 2-10d box (3″ × 0.128″); or 2 staples 1¾″	Face nail
19	1″ × 6″ sheathing to each bearing	3-8d box (2½″ × 0.113″); or 2-8d common (2½″ × 0.131″); or 2-10d box (3″ × 0.128″); or 2 staples, 1″ crown, 16 ga., 1¾″ long	Face nail
20	1″ × 8″ and wider sheathing to each bearing	3-8d box (2½″ × 0.113″); or 3-8d common (2½″ × 0.131″); or 3-10d box (3″ × 0.128″); or 3 staples, 1″ crown, 16 ga., 1¾″ long Wider than 1″ × 8″ 4-8d box (2½″ × 0.113″); or 3-8d common (2½″ × 0.131″); or 3-10d box (3″ × 0.128″); or 4 staples, 1″ crown, 16 ga., 1¾″ long	Face nail
	Floor		
21	Joist to sill, top plate or girder	4-8d box (2½″ × 0.113″); or 3-8d common (2½″ × 0.131″); or 3-10d box (3″ × 0.128″); or 3-3″ × 0.131″ nails	Toe nail
22	Rim joist, band joist or blocking to sill or top plate (roof applications also)	8d box (2½″ × 0.113″)	4″ o.c. toe nail
		8d common (2½″ × 0.131″); or 10d box (3″ × 0.128″); or 3″ × 0.131″ nails	6″ o.c. toe nail
23	1″ × 6″ subfloor or less to each joist	3-8d box (2½″ × 0.113″); or 2-8d common (2½″ × 0.131″); or 3-10d box (3″ × 0.128″); or 2 staples, 1″ crown, 16 ga., 1¾″ long	Face nail

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER[a, b, c]	SPACING AND LOCATION
	Floor		
24	2″ subfloor to joist or girder	3-16d box (3½″ × 0.135″); or 2-16d common (3½″ × 0.162″)	Blind and face nail
25	2″ planks (plank & beam—floor & roof)	3-16d box (3½″ × 0.135″); or 2-16d common (3½″ × 0.162″)	At each bearing, face nail
26	Band or rim joist to joist	3-16d common (3½″ × 0.162″) 4-10 box (3″ × 0.128″), or 4-3″ × 0.131″ nails; or 4-3″ × 14 ga. staples, 7/16″ crown	End nail
27	Built-up girders and beams, 2-inch lumber layers	20d common (4″ × 0.192″); or	Nail each layer as follows: 32″ o.c. at top and bottom and staggered.
		10d box (3″ × 0.128″); or 3″ × 0.131″ nails	24″ o.c. face nail at top and bottom staggered on opposite sides
		And: 2-20d common (4″ × 0.192″); or 3-10d box (3″ × 0.128″); or 3-3″ × 0.131″ nails	Face nail at ends and at each splice
28	Ledger strip supporting joists or rafters	4-16d box (3½″ × 0.135″); or 3-16d common (3½″ × 0.162″); or 4-10d box (3″ × 0.128″); or 4-3″ × 0.131″ nails	At each joist or rafter, face nail
29	Bridging to joist	2-10d (3″ × 0.128″)	Each end, toe nail

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER[a, b, c]	SPACING OF FASTENERS: Edges (inches)[h]	SPACING OF FASTENERS: Intermediate supports[c, e] (inches)
	Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing [see Table R602.3(3) for wood structural panel *exterior* wall sheathing to wall framing]			
30	3/8″ – 1/2″	6d common (2″ × 0.113″) nail (subfloor, wall)[j] 8d common (2½″ × 0.131″) nail (roof)	6	12[f]
31	19/32″ – 1″	8d common nail (2½″ × 0.131″)	6	12[f]
32	1⅛″ – 1¼″	10d common (3″ × 0.148″) nail; or 8d (2½″ × 0.131″) deformed nail	6	12
	Other wall sheathing[g]			
33	½″ structural cellulosic fiberboard sheathing	1½″ galvanized roofing nail, 7/16″ head diameter, or 1″ crown staple 16 ga., 1¼″ long	3	6
34	25/32″ structural cellulosic fiberboard sheathing	1¾″ galvanized roofing nail, 7/16″ head diameter, or 1″ crown staple 16 ga., 1¼″ long	3	6
35	½″ gypsum sheathing[d]	1½″ galvanized roofing nail; staple galvanized, 1½″ long; 1¼″ screws, Type W or S	7	7
36	⅝″ gypsum sheathing[d]	1¾″ galvanized roofing nail; staple galvanized, 1⅝″ long; 1⅝″ screws, Type W or S	7	7
	Wood structural panels, combination subfloor underlayment to framing			
37	¾″ and less	6d deformed (2″ × 0.120″) nail; or 8d common (2½″ × 0.131″) nail	6	12
38	⅞″ – 1″	8d common (2½″ × 0.131″) nail; or 8d deformed (2½″ × 0.120″) nail	6	12
39	1⅛″ – 1¼″	10d common (3″ × 0.148″) nail; or 8d deformed (2½″ × 0.120″) nail	6	12

FOR SI: 1 INCH = 25.4 MM, 1 FOOT = 304.8 MM, 1 MILE PER HOUR = 0.447 M/S; 1 KSI = 6.895 MPA.
A. NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 80 KSI FOR SHANK DIAMETER OF 0.192 INCH (20D COMMON NAIL), 90 KSI FOR SHANK DIAMETERS LARGER THAN 0.142 INCH BUT NOT LARGER THAN 0.177 INCH, AND 100 KSI FOR SHANK DIAMETERS OF 0.142 INCH OR LESS.
B. STAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM 7/16-INCH ON DIAMETER CROWN WIDTH.
C. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER.
D. FOUR-FOOT BY 8-FOOT OR 4-FOOT BY 9-FOOT PANELS SHALL BE APPLIED VERTICALLY.
E. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(2).
F. WHERE THE ULTIMATE DESIGN WIND SPEED IS 130 MPH OR LESS, NAILS FOR ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE SPACED 6 INCHES ON CENTER. WHERE THE ULTIMATE DESIGN WIND SPEED IS GREATER THAN 130 MPH, NAILS FOR ATTACHING PANEL ROOF SHEATHING TO INTERMEDIATE SUPPORTS SHALL BE SPACED 6 INCHES ON CENTER FOR MINIMUM 48-INCH DISTANCE FROM RIDGES, EAVES AND GABLE END WALLS; AND 4 INCHES ON CENTER TO GABLE END WALL FRAMING.
G. GYPSUM SHEATHING SHALL CONFORM TO ASTM C 1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C 208.
H. SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS NEED NOT BE PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.
I. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, PROVIDE TWO TOE NAILS ON ONE SIDE OF THE RAFTER AND TOE NAILS FROM THE CEILING JOIST TO TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE. THE TOE NAIL ON THE OPPOSITE SIDE OF THE RAFTER SHALL NOT BE REQUIRED.

SHERIDAN
WYOMING
307-752-9146

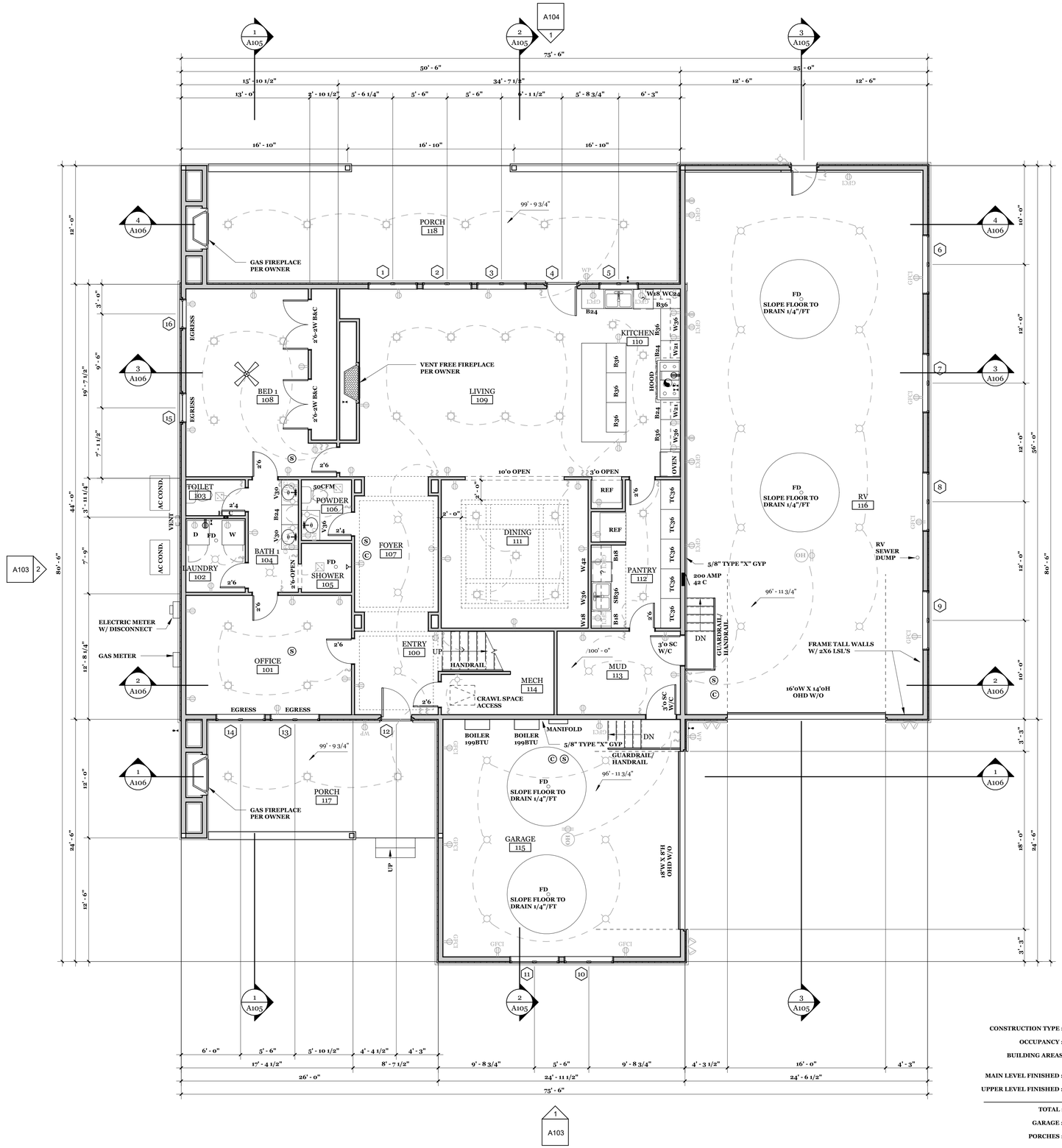
BRIDGER
ENGINEERING
AND DESIGN
BE

Professional Engineer
KYLE A. BRIDGER
17110
Date 2022-11-16
WYOMING
"STRUCTURE ONLY"

SPECIFICATIONS
GLOCK RESIDENCE
30 GENEVA LN
SHERIDAN, WY 82801
OWNER/CONTRACTOR 480.239.6512

Job #	2022-22
File	22.022
Date	2022.10.24
Drawn	KAB
Checked	KAB
Rel'd	20-17-2022
Reved	

Sheet Number
SP2



CONSTRUCTION TYPE : VB
OCCUPANCY : R3, U1
BUILDING AREAS

MAIN LEVEL FINISHED :	2,242 SQ FT
UPPER LEVEL FINISHED :	2,242 SQ FT
TOTAL :	4,484 SQ FT
GARAGE :	1,990 SQ FT
PORCHES :	918 SQ FT

1 A100 1ST FLOOR PLAN
SCALE: 3/16" = 1'-0"

FINISH SCHEDULE

Number	Name	Base Finish	Floor Finish	Wall Finish	Ceiling Finish	Finish Notes
100	ENTRY	WOOD	LVT	1/2" GYP BD	1/2" GYP BD	
101	OFFICE	WOOD	LVT	1/2" GYP BD	1/2" GYP BD	
102	LAUNDRY	TILE	LVT	1/2" GYP BD	1/2" GYP BD	
103	TOILET	TILE	TILE	1/2" GYP BD	1/2" GYP BD	BACKERBOARD IN LIEU OF GYP AT WALL TILE LOCATIONS
104	BATH 1	TILE	TILE	1/2" GYP BD	1/2" GYP BD	BACKERBOARD IN LIEU OF GYP AT WALL TILE LOCATIONS
105	SHOWER	TILE	TILE	TILE	1/2" GYP BD	BACKERBOARD IN LIEU OF GYP AT WALL TILE LOCATIONS
106	POWDER	TILE	TILE	TILE	1/2" GYP BD	BACKERBOARD IN LIEU OF GYP AT WALL TILE LOCATIONS
107	FOYER	WOOD	LVT	1/2" GYP BD	1/2" GYP BD	
108	BED 1	WOOD	LVT	1/2" GYP BD	1/2" GYP BD	
109	LIVING	WOOD	LVT	1/2" GYP BD	1/2" GYP BD	
110	KITCHEN	WOOD	LVT	1/2" GYP BD	1/2" GYP BD	
111	DENING	WOOD	LVT	1/2" GYP BD	1/2" GYP BD	
112	PANTRY	WOOD	LVT	1/2" GYP BD	1/2" GYP BD	
113	MUD	TILE	TILE	1/2" GYP BD	1/2" GYP BD	BACKERBOARD IN LIEU OF GYP AT WALL TILE LOCATIONS
114	MECH	VINYL	LVT	5/8" TYPE "X" GYP BD	5/8" TYPE "X" GYP BD	
115	GARAGE	VINYL	SEALED CONCRETE	5/8" TYPE "X" GYP BD	5/8" TYPE "X" GYP BD	
116	RV	VINYL	SEALED CONCRETE	5/8" TYPE "X" GYP BD	5/8" TYPE "X" GYP BD	
117	PORCH	-	SEALED CONCRETE	-	T&G	
118	PORCH	-	SEALED CONCRETE	-	T&G	
200	HALL	WOOD	CARPET	1/2" GYP BD	1/2" GYP BD	
201	BED 2	WOOD	CARPET	1/2" GYP BD	1/2" GYP BD	
202	BATH 2	TILE	TILE	1/2" GYP BD	1/2" GYP BD	
203	CLOSET	WOOD	CARPET	1/2" GYP BD	1/2" GYP BD	
204	PLAY	WOOD	CARPET	1/2" GYP BD	1/2" GYP BD	
205	CLOSET	WOOD	CARPET	1/2" GYP BD	1/2" GYP BD	
206	BATH 3	TILE	TILE	1/2" GYP BD	1/2" GYP BD	
207	BED 3	WOOD	CARPET	1/2" GYP BD	1/2" GYP BD	
208	CLOSET	WOOD	CARPET	1/2" GYP BD	1/2" GYP BD	
209	MASTER BED	WOOD	CARPET	1/2" GYP BD	1/2" GYP BD	
210	SHOWER	TILE	TILE	TILE	1/2" GYP BD	BACKERBOARD IN LIEU OF GYP AT WALL TILE LOCATIONS
211	MASTER BATH	TILE	TILE	1/2" GYP BD	1/2" GYP BD	
212	MASTER CLOSET	WOOD	CARPET	1/2" GYP BD	1/2" GYP BD	
213	LAUNDRY	TILE	TILE	1/2" GYP BD	1/2" GYP BD	

Window Schedule

Mark	Type	Level	Width	Height	Head Height	Egress	Tempered	AREA
1	CC3060-2	MAIN LEVEL	5' - 0"	5' - 0"	8' - 0"			25 SF
2	CC3060-2	MAIN LEVEL	5' - 0"	5' - 0"	8' - 0"			25 SF
3	CC3060-2	MAIN LEVEL	5' - 0"	5' - 0"	8' - 0"			25 SF
4	UWIFD3080	MAIN LEVEL	3' - 1 7/16"	7' - 11 1/2"	7' - 11 1/2"			23 SF
5	CC2448-2	MAIN LEVEL	4' - 0"	4' - 0"	8' - 0"			16 SF
6	CC3636-2	TOS GARAGE	6' - 0"	3' - 0"	12' - 0"			18 SF
7	CC3636-2	TOS GARAGE	6' - 0"	3' - 0"	12' - 0"			18 SF
8	CC3636-2	TOS GARAGE	6' - 0"	3' - 0"	12' - 0"			18 SF
9	CC3636-2	TOS GARAGE	6' - 0"	3' - 0"	12' - 0"			18 SF
10	CC3060-2	MAIN LEVEL	5' - 0"	5' - 0"	8' - 0"			25 SF
11	CC3060-2	MAIN LEVEL	5' - 0"	5' - 0"	8' - 0"			25 SF
12	UWIFD3080	MAIN LEVEL	3' - 1 7/16"	7' - 11 1/2"	7' - 11 1/2"			23 SF
13	CC3060-2	MAIN LEVEL	5' - 0"	5' - 0"	8' - 0"	Y		25 SF
14	CC3060-2	MAIN LEVEL	5' - 0"	5' - 0"	8' - 0"	Y		25 SF
15	DCS3660	MAIN LEVEL	3' - 0"	5' - 0"	8' - 0"	Y		15 SF
16	DCS3660	MAIN LEVEL	3' - 0"	5' - 0"	8' - 0"	Y		15 SF
17	CC2460-2	SECOND LEVEL	4' - 0"	5' - 0"	8' - 0"			20 SF
18	CC2460-2	SECOND LEVEL	4' - 0"	5' - 0"	8' - 0"			20 SF
19	CC2460-2	SECOND LEVEL	4' - 0"	5' - 0"	8' - 0"			20 SF
20	CC2460-2	SECOND LEVEL	4' - 0"	5' - 0"	8' - 0"			20 SF
21	CC3636-2	SECOND LEVEL	6' - 0"	3' - 0"	8' - 0"			18 SF
22	CC3060	SECOND LEVEL	5' - 0"	5' - 0"	8' - 0"			15 SF
23	CC2460-2	SECOND LEVEL	4' - 0"	5' - 0"	8' - 0"			20 SF
24	CC2460-2	SECOND LEVEL	4' - 0"	5' - 0"	8' - 0"			20 SF
Grand total: 24								496 SF

VERIFY WITH OWNER ALL FINISHES TO BE INSTALLED
WINDOWS TO BE PELLA OR EQ. Uo.30 MAX
ALL OPERABLE WINDOWS TO BE SUPPLIED WITH SCREENS

METER	METER W/ DISCONNECT	A/K/A	ALSO KNOWN AS
200A 42C	SERVICE PANEL, SIZE AS NOTED	&	AND
	110 VAC DUPLEX RECEPTACLE	@	AT
GFI	110 VAC DUPLEX RECEPTACLE, GFIC PROTECTED	- OR APPROX	APPROXIMATELY
WP	110 VAC DUPLEX RECEPTACLE, GFIC PROTECTED, WEATHERPROOF	Ø	DIAMETER
	220 VAC RECEPTACLE, AMPERAGE NOTED	EBO	ENGINEERED BY OTHERS
$	SWITCH	FOC	FACE OF CONCRETE
	LIGHT/ EXHAUST FAN UNIT	FOS	FACE OF STUD OR FRAMING
	RECESSED FIXTURE	FT	FOOT / FEET
	SURFACE MOUNT FIXTURE, DECORATIVE	FFE	FINISH FLOOR ELEVATION
	WALL MOUNT FIXTURE, DECORATIVE	H	HEIGHT
	TRACK LIGHT	IN	INCH (ES)
S	SMOKE DETECTOR	LVL	LAMINATED-VENEER LUMBER
C	CARBON MONOXIDE DETECTOR	MAX	MAXIMUM
OH	OVERHEAD DOOR OPERATOR	MIN	MINIMUM
	PHOTO CELL W/ MOTION DETECTOR	NTS	NOT TO SCALE
BOILER	BOILER	#	NUMBER
WH	WATER HEATER OR SIDE ARM STORAGE TANK	OC	ON CENTER
	FLUE PIPE, SIZE NOTED	II	PARALLEL
	SHUT OFF VALVE	T OR PERP	PERPENDICULAR
	HOSE BIB, FROST PROOF	# OR LB	POUNDS
H C	WASHER VALVE & DRAIN BOX	PSF	POUNDS PER SQUARE FOOT
		PSI	POUNDS PER SQUARE INCH
		PT OR CCA	PRESSURE TREATED
		REBAR	REINFORCING STEEL
		REQ'D	REQUIRED
		R.N.R.	RECOMMENDED NOT REQUIRED
		OR SQ FT	SQUARE FOOT / FEET
		T&G	TONGUE AND GROOVE
		T&B	TOP AND BOTTOM
		TYP	TYPICAL
		UON	UNLESS OTHERWISE NOTED
		W	WIDTH
		W/	WITH
		WWM	WELDED WIRE MESH
		O	QUANTITY

LIST OF ABBREVIATIONS
SCALE: 3/16" = 1'-0"

BRIDGER ENGINEERING AND DESIGN
SHERIDAN WYOMING
307-752-9146

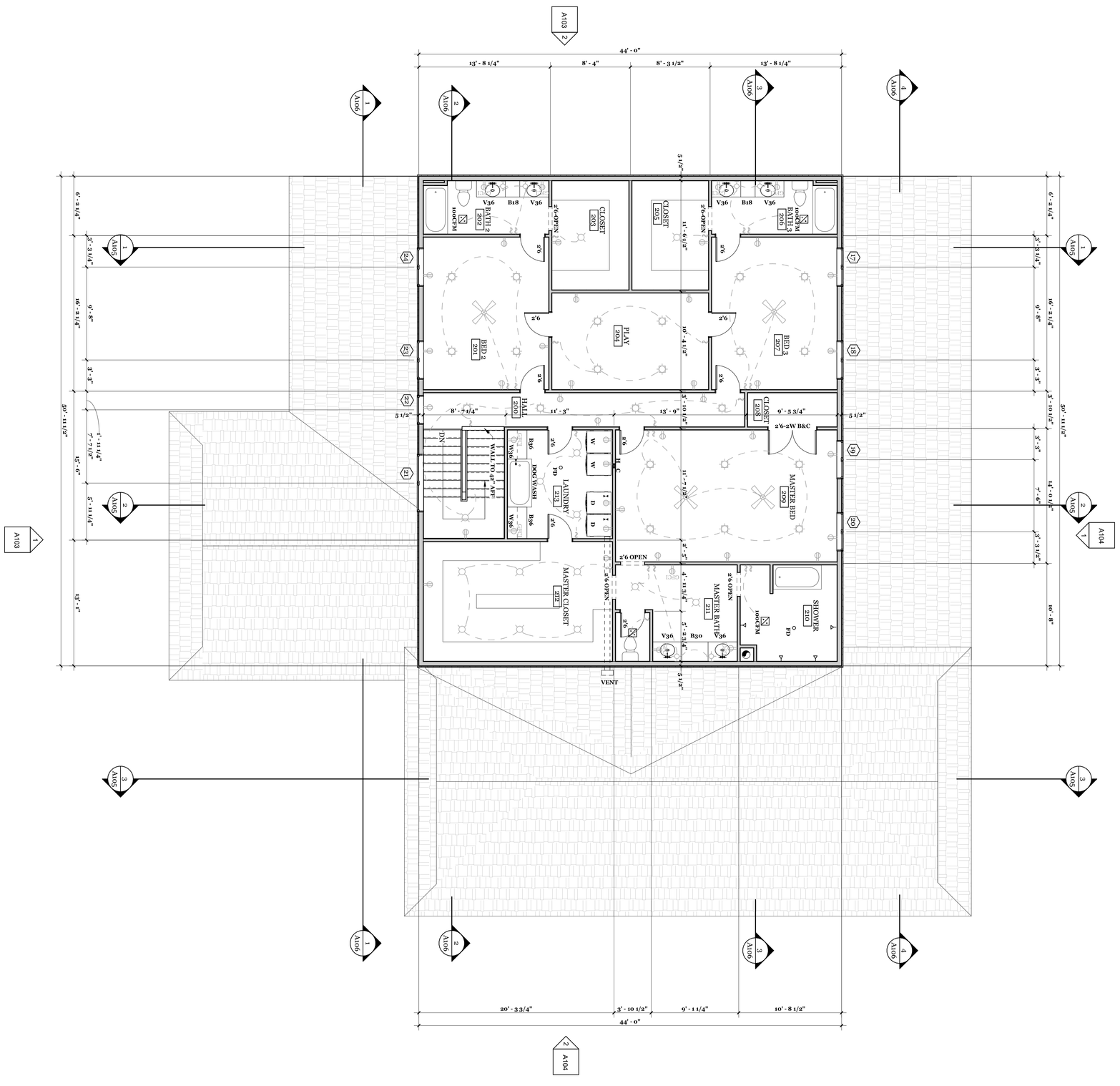
Professional Engineer
KYLE A. BRIDGER
17110
Date 2022-11-16
WYOMING
"STRUCTURE ONLY"

MAIN LEVEL FLOOR PLAN
GLOCK RESIDENCE
30 GENEVA LN
SHERIDAN, WY 82801
OWNER/CONTRACTOR 480.239.6512

Job #	2022-22
File	22.022
Date	2022.10.24
Drawn	KAB
Checked	KAB
Rel'd	20-17-2022
Reved	

Sheet Number
A100
SHEET 4 OF 14

1 2ND FLOOR PLAN
A109 SCALE: 3/16" = 1'-0"



ALL DOORS TO BE 8'-0" TALL UNLESS NOTED OTHERWISE

Sheet Number
A101
SHEET 5 OF 14

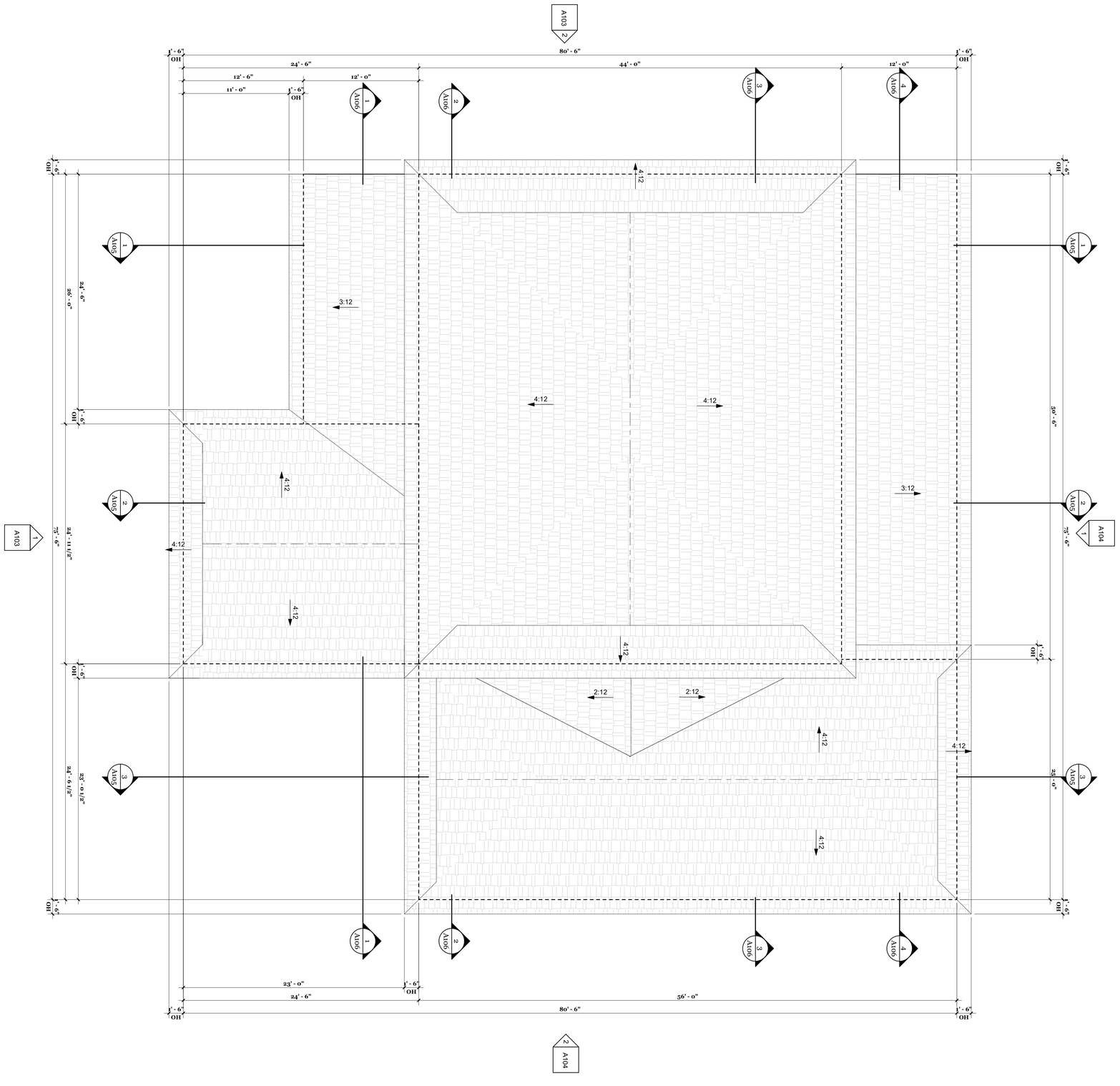
Job #	2022-22
File	22.022
Date	2022.10.24
Drawn	KAB
Checked	KAB
Rel'd	20-17-2022
Revsd	

UPPER LEVEL FLOOR PLAN
GLOCK RESIDENCE
30 GENEVA LN
SHERIDAN, WY 82801
OWNER/CONTRACTOR 480.239.6512

"STRUCTURE ONLY"
Professional Engineer
KYLE A. BRIDGER
WYOMING
Date 2022-11-16

BRIDGER ENGINEERING AND DESIGN
SHERIDAN WYOMING
307-752-9146

1 OVERALL ROOF PLAN
A102 SCALE: 3/16" = 1'-0"



NOTE:
ALL ROOFS TO BE CLAY TILE ROOF PER OWNER

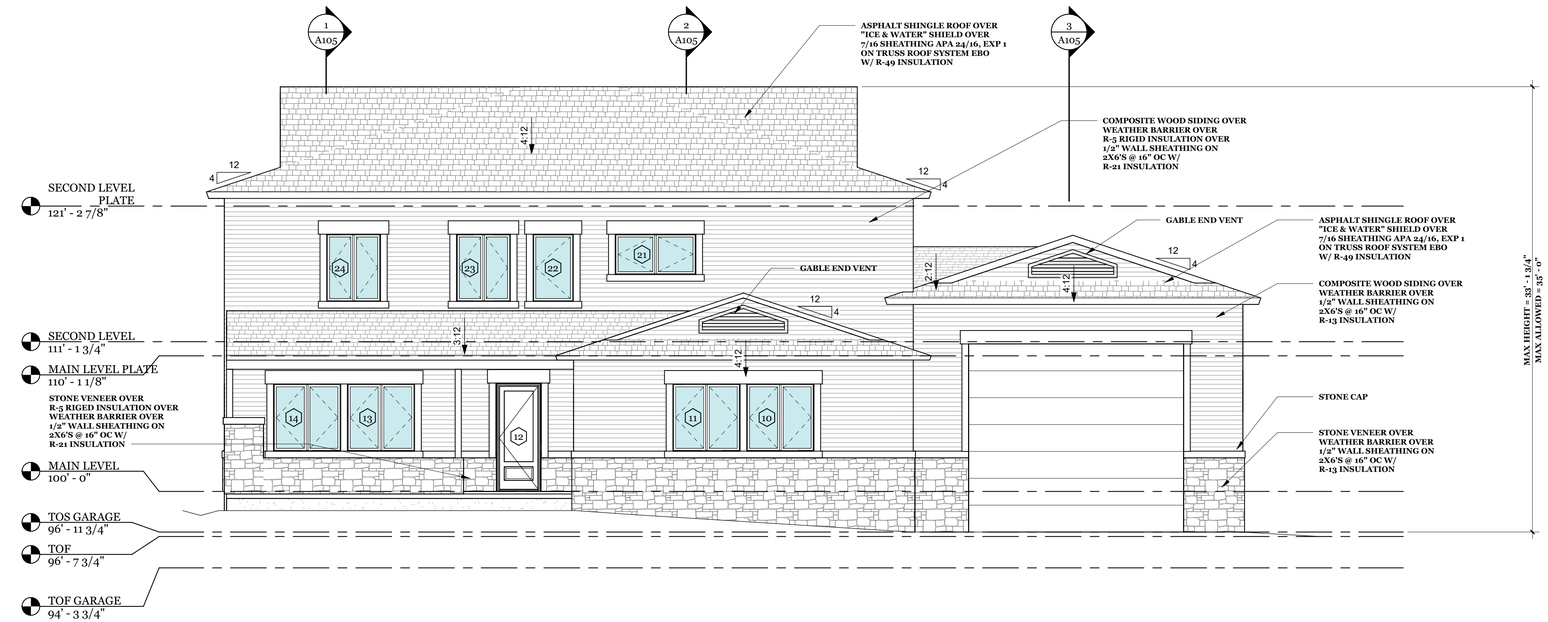
Sheet Number
A102
SHEET 6 OF 14

Job # 2022-22
File 22.022
Date 2022.10.24
Drawn KAB
Checked KAB
Rel'd 20-17-2022
Revsd

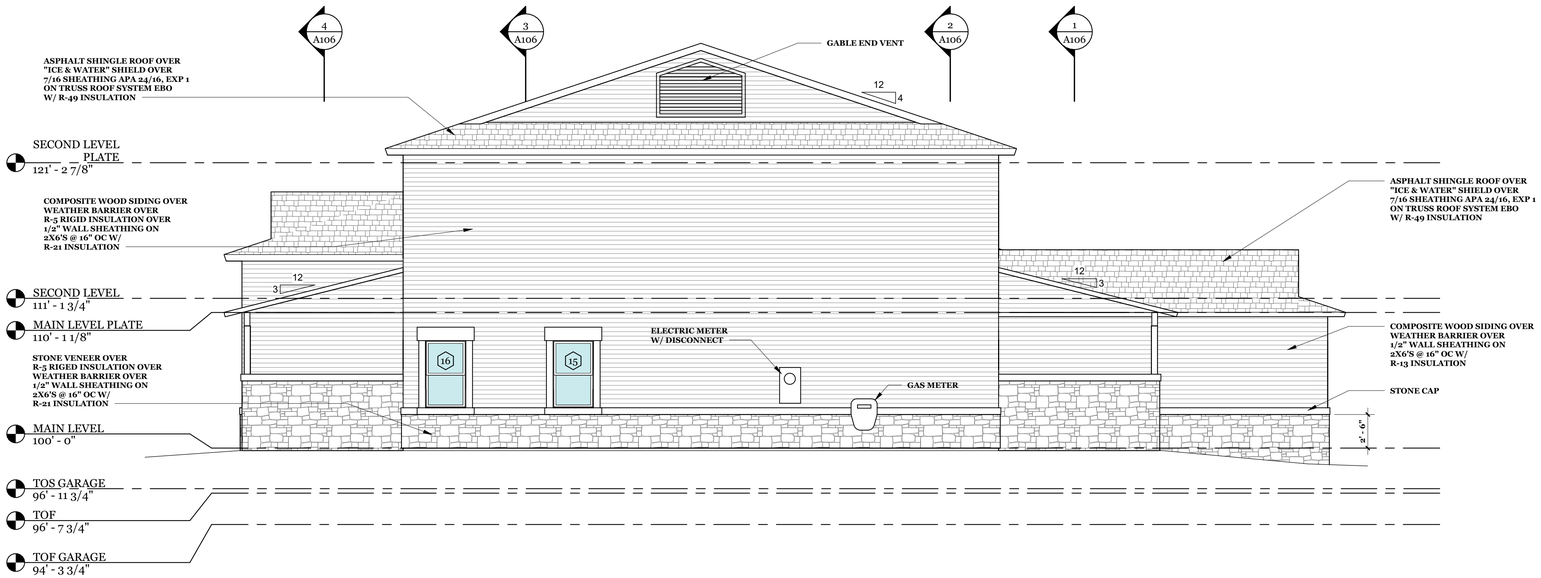
ROOF PLAN
GLOCK RESIDENCE
30 GENEVA LN
SHERIDAN, WY 82801
OWNER/CONTRACTOR 480.239.6512

"STRUCTURE ONLY"
Professional Engineer
KYLE A. BRIDGER
STATE OF WYOMING
Date 2022-11-16

BRIDGER ENGINEERING AND DESIGN
SHERIDAN WYOMING
307-752-9146



1 A103 SOUTH ELEVATION
SCALE: 3/16" = 1'-0"



2 A103 WEST ELEVATION
SCALE: 3/16" = 1'-0"

SHERIDAN
WYOMING
307-752-9146

BRIDGER
ENGINEERING
AND DESIGN

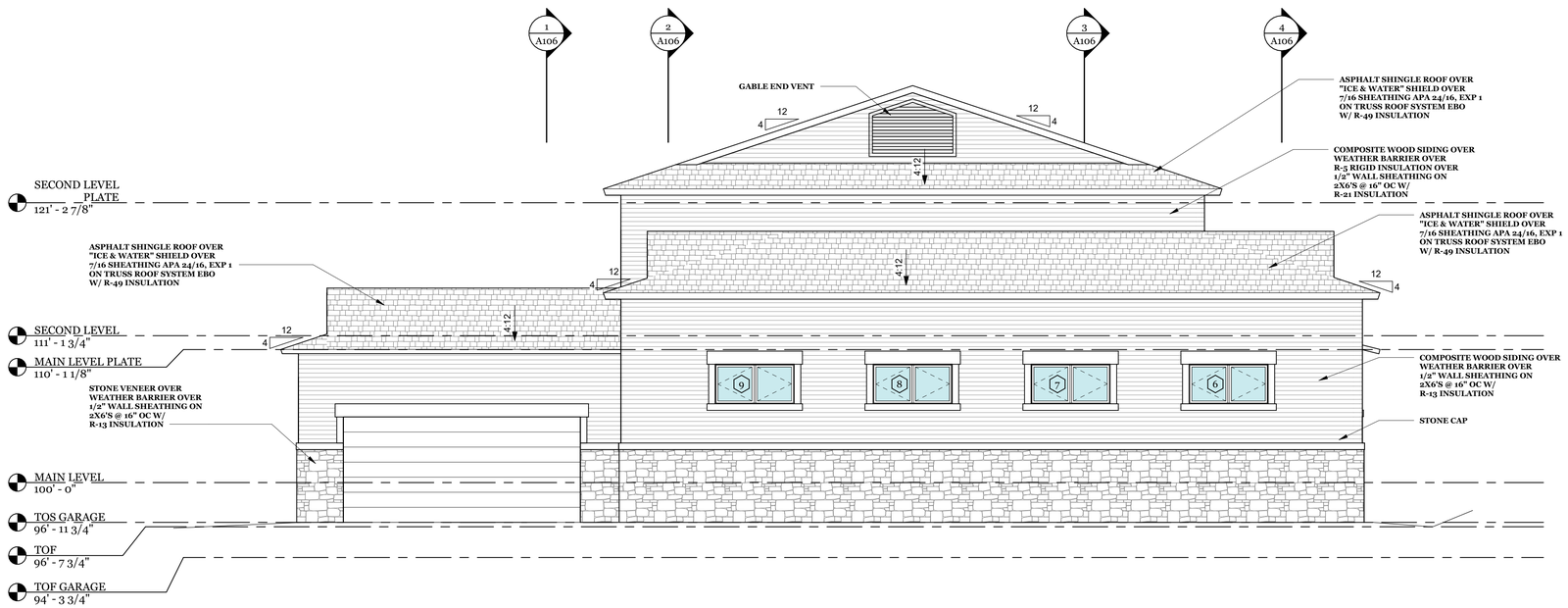
Professional Engineer
KYLE A. BRIDGER
17110
Date 2022-11-16
WYOMING
"STRUCTURE ONLY"

BUILDING ELEVATIONS
GLOCK RESIDENCE
30 GENEVA LN
SHERIDAN, WY 82801
OWNER/CONTRACTOR 480.239.6512

Job #	2022-22
File	22.022
Date	2022.10.24
Drawn	KAB
Checked	KAB
Rel'd	20-17-2022
Reved	

Sheet Number
A103
SHEET 7 OF 14

1 A104 NORTH ELEVATION
SCALE: 3/16" = 1'-0"



2 A104 EAST ELEVATION
SCALE: 3/16" = 1'-0"

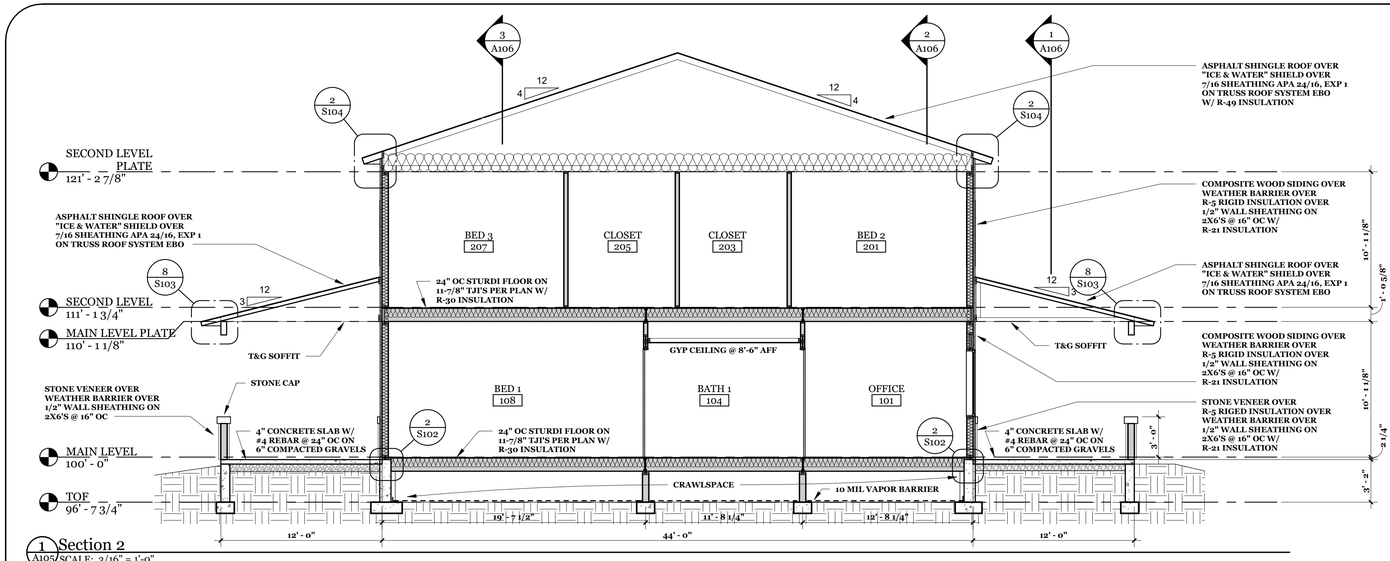
BRIDGER ENGINEERING AND DESIGN
SHERIDAN WYOMING
307-752-9146

Professional Engineer
KYLE A. BRIDGER
17110
Date 2022-11-16
WYOMING
"STRUCTURE ONLY"

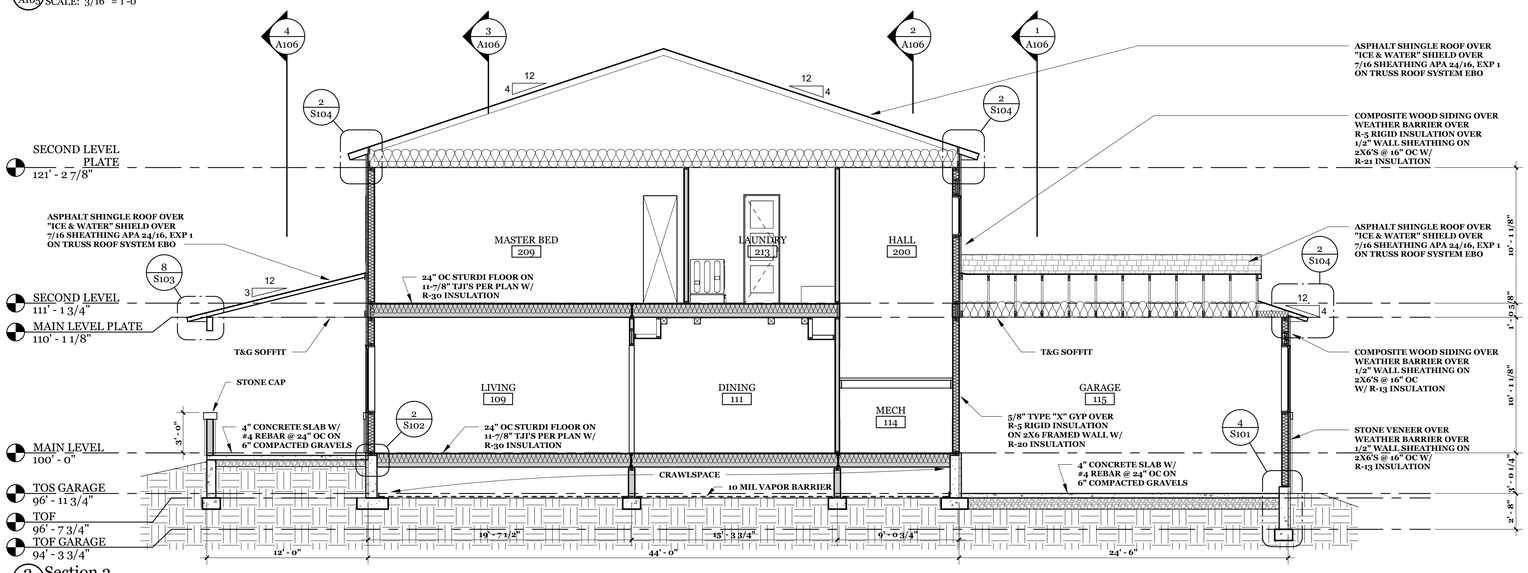
BUILDING ELEVATIONS
GLOCK RESIDENCE
30 GENEVA LN
SHERIDAN, WY 82801
OWNER/CONTRACTOR 480.239.6512

Job #	2022-22
File	22.022
Date	2022.10.24
Drawn	KAB
Checked	KAB
Rel'd	20-17-2022
Reved	

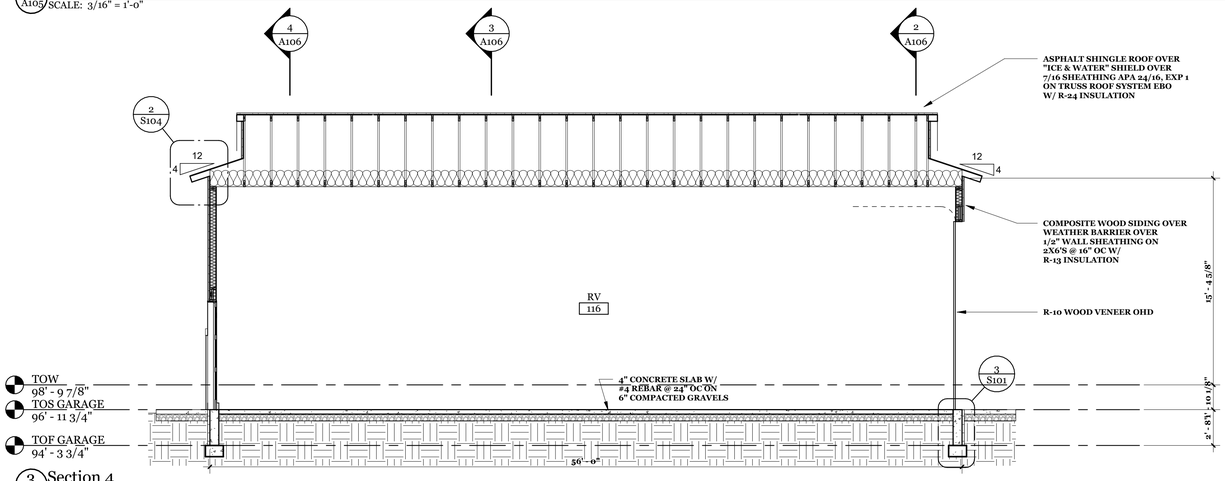
Sheet Number
A104
SHEET 8 OF 14



1 Section 2
A105 SCALE: 3/16" = 1'-0"



2 Section 3
A105 SCALE: 3/16" = 1'-0"



3 Section 4
A105 SCALE: 3/16" = 1'-0"

SHERIDAN
WYOMING
307-752-9146

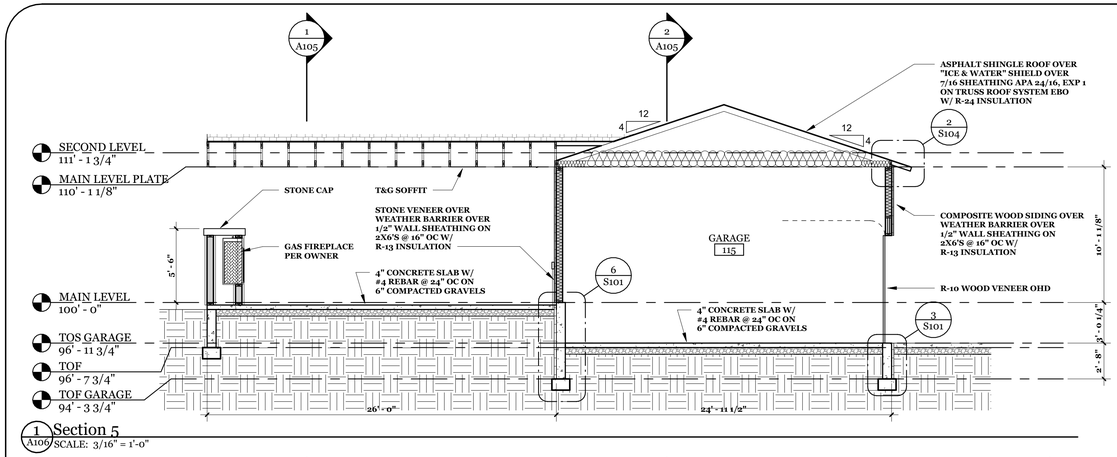
BRIDGER
ENGINEERING
AND DESIGN

Professional Engineer
KYLE A. BRIDGER
17110
Date 2022-11-16
WYOMING
"STRUCTURE ONLY"

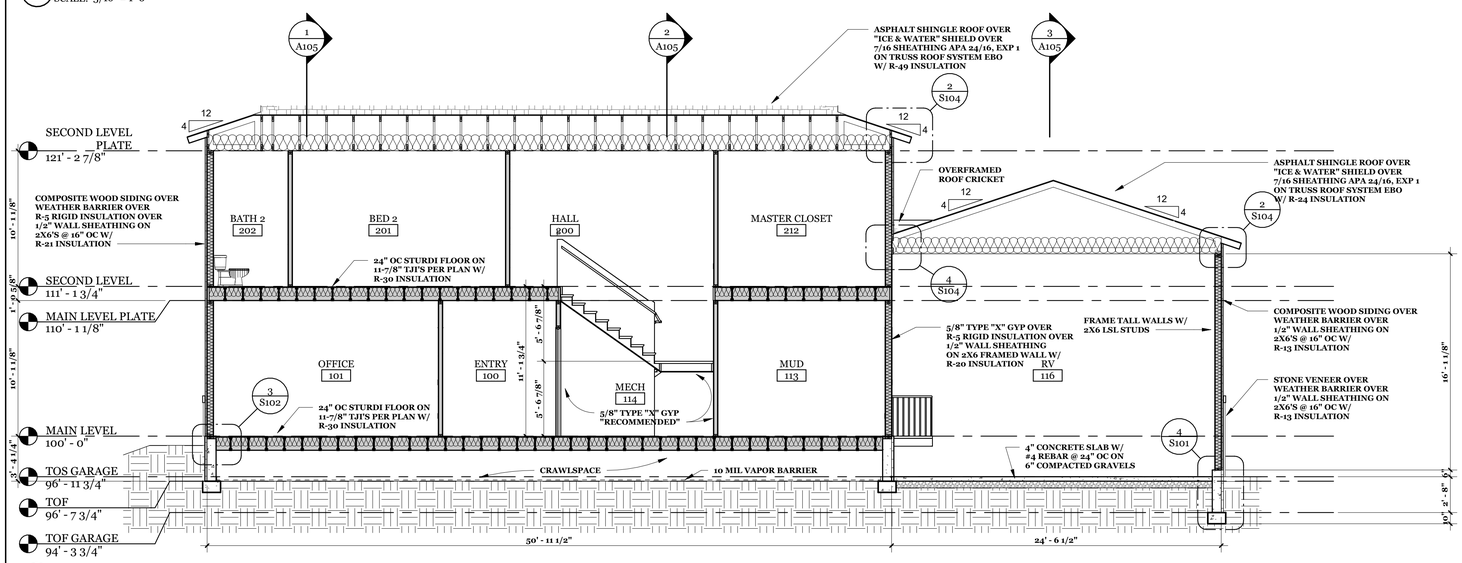
BUILDING SECTIONS
GLOCK RESIDENCE
30 GENEVA LN
SHERIDAN, WY 82801
OWNER/CONTRACTOR 480.239.6512

Job #	2022-22
File	22.022
Date	2022.10.24
Drawn	KAB
Checked	KAB
Rel'd	20-17-2022
Reved	

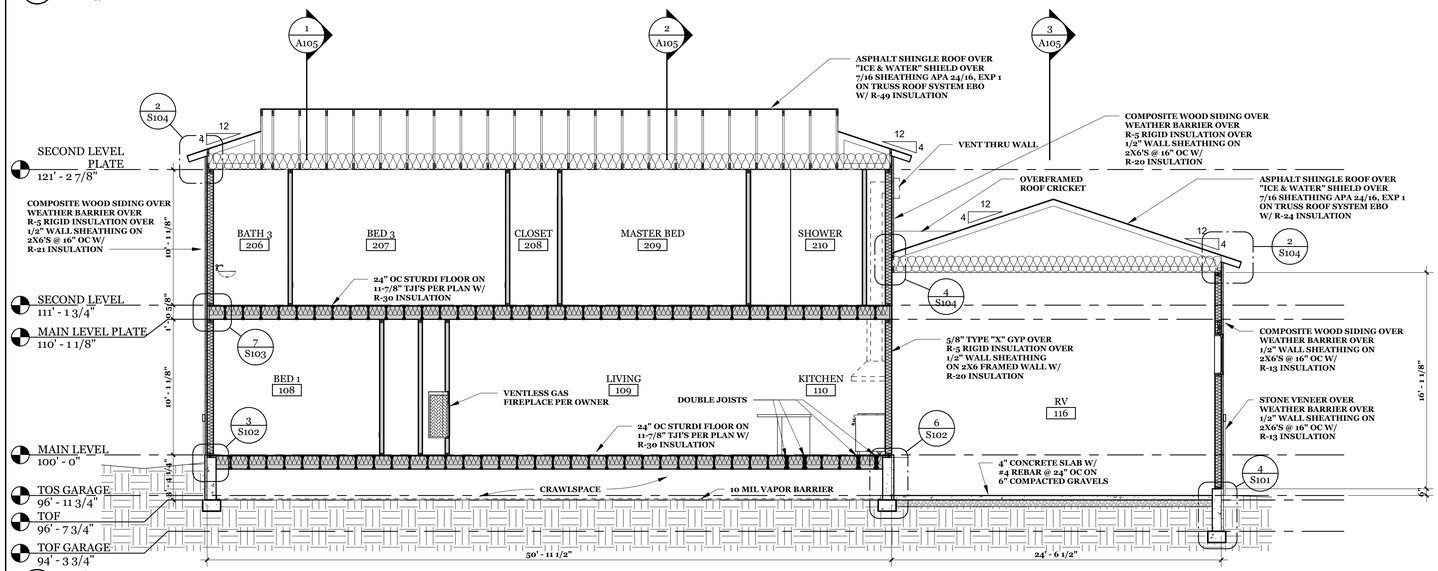
Sheet Number
A105
SHEET 9 OF 14



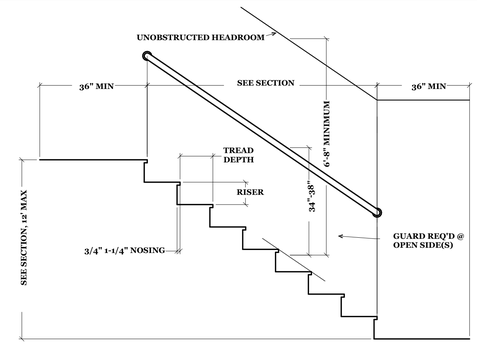
1 Section 5
A106 SCALE: 3/16" = 1'-0"



2 Section 6
A106 SCALE: 3/16" = 1'-0"

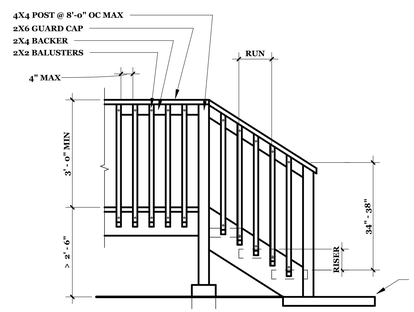


3 Section 7
A106 SCALE: 3/16" = 1'-0"



NOTES:
SEE IRC SECTION R312 FOR GUARD REQUIREMENTS AND SPECIFICATIONS
SEE IRC SECTION R311.7 FOR STAIRWAY REQUIREMENTS AND SPECIFICATIONS
SEE IRC SECTION R311.7.7 FOR HANDRAIL REQUIREMENTS AND SPECIFICATIONS
HANDRAIL SHALL BE RETURNED TO WALL OR TERMINATE @ NEWELL POST
MAXIMUM RISER OR TREAD DEPTH DEVIATION IS 3/8"
MAXIMUM RISER HEIGHT = 7-3/4", MINIMUM TREAD DEPTH = 10", UON
NOSING NOT REQUIRED WHEN TREAD DEPTH IS 11" MIN.

5 STAIR DETAIL
A106 SCALE: 1/2" = 1'-0"



HANDRAIL IS REQUIRED @ STAIRWAY
REFER TO DETAILS PROVIDED BY LOCAL BUILDING DEPARTMENT

SEE STAIR / HANDRAIL DETAIL FOR RISER DETAILS NOT SHOWN

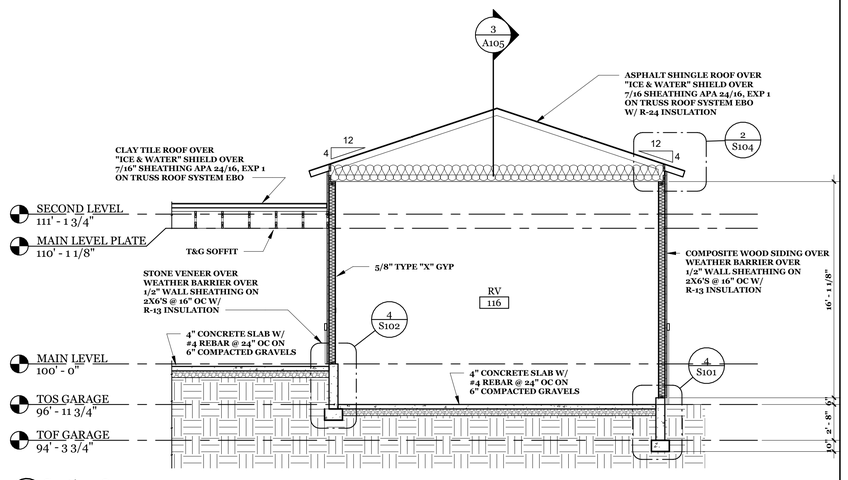
7" MAXIMUM RISERS RECOMMENDED
11" MINIMUM RUN RECOMMENDED
UNLESS OTHERWISE NOTED

USE 2X12 DF#1 STRINGERS & TREADS
ATTACH W/ T310 STAIRCASE ANGLES
INTERMEDIATE STRINGER(S) @ 16" OC

THE USE OF PRESSURE PRESERVATIVE LUMBER IS HIGHLY RECOMMENDED

NOTES
SEE SECTION R312 OF THE 2015 IRC FOR GUARD REQUIREMENTS AND SPECIFICATIONS
GUARDRAIL MUST NOT PASS A 4" SPHERE
GUARDRAIL REQUIRED WHEN DECK, PORCH OR BALCONY TO GRADE OR FLOOR BELOW EXCEEDS 30"
SEE IRC SECTION R311.7 FOR STAIR REQUIREMENTS AND SPECIFICATIONS
OPEN RISERS SHALL NOT PASS A 4"Ø SPHERE
SEE IRC SECTION R311.7.8.3 FOR HANDRAIL REQUIREMENTS AND SPECIFICATIONS
DETAILS SHOWN ARE RECOMMENDED FOR EXTERIOR USE - OTHER DETAILS MAY BE ACCEPTABLE

6 GUARD/ STAIR DETAIL1
A106 SCALE: 1/2" = 1'-0"



4 Section 8
A106 SCALE: 3/16" = 1'-0"

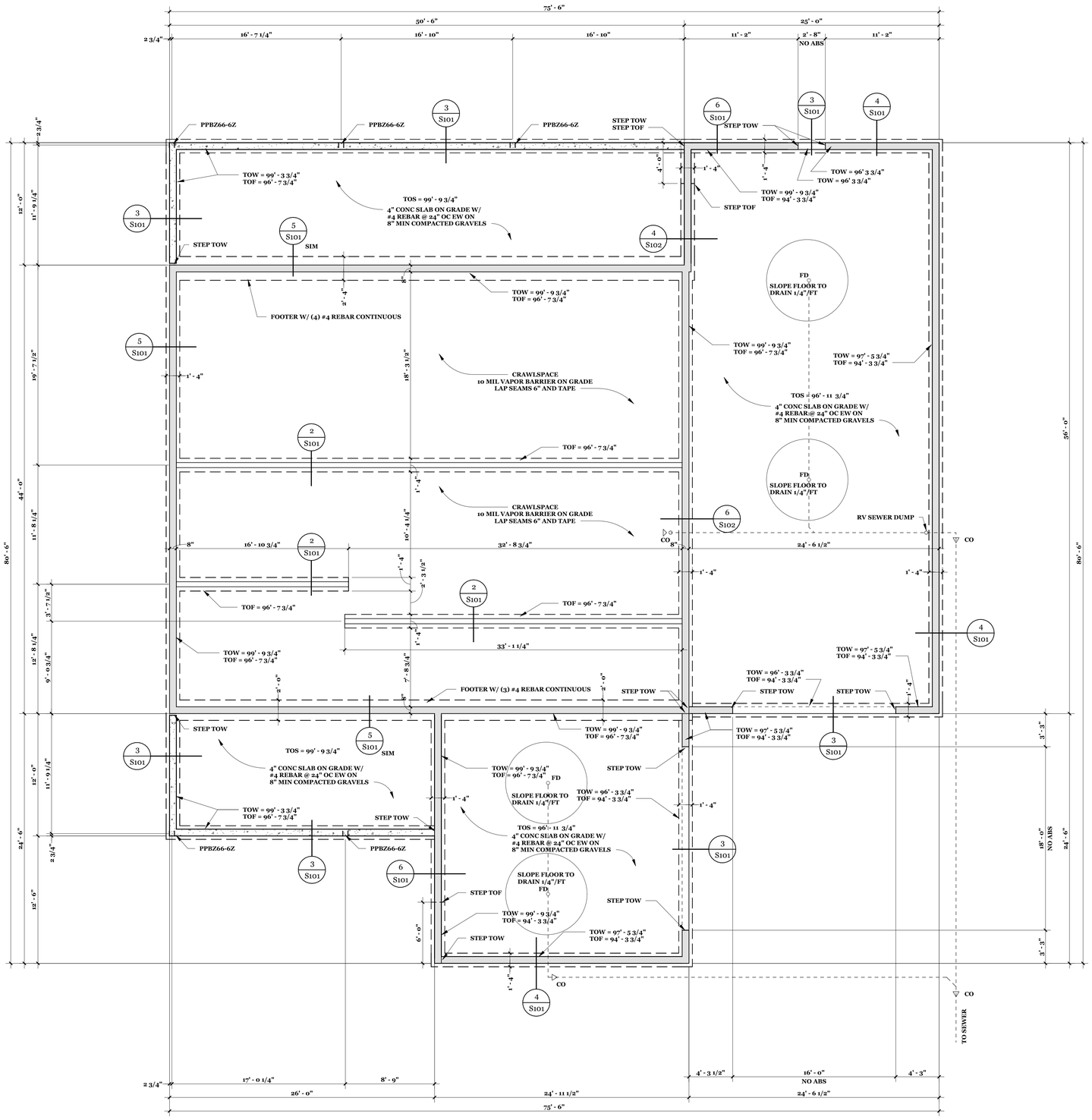
BRIDGER ENGINEERING AND DESIGN
SHERIDAN WYOMING 307-752-9146

Professional Engineer
KYLE A. BRIDGER
17110
Date 2022-11-16
WYOMING
"STRUCTURE ONLY"

BUILDING SECTIONS
GLOCK RESIDENCE
30 GENEVA LN
SHERIDAN, WY 82801
OWNER/CONTRACTOR 480.239.6512

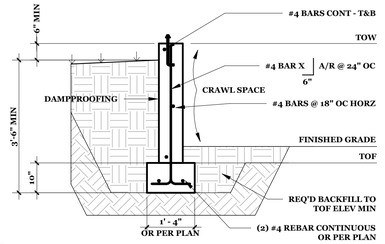
Job #	2022-22
File	22.022
Date	2022.10.24
Drawn	KAB
Checked	KAB
Rel'd	20-17-2022
Reved	

Sheet Number
A106
SHEET 10 OF 14

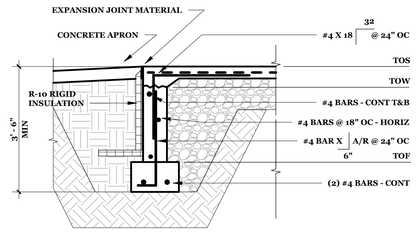


1 S101 FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

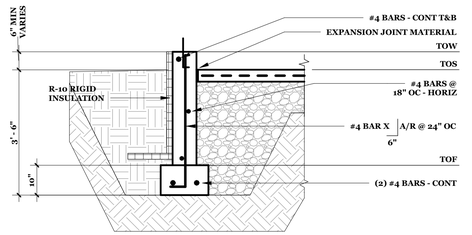
NOTE:
COORDINATE ALL SUB SLAB PENETRATIONS
PROVIDE CRAWLSPACE VENTALATION SYSTEM SPER R408.3



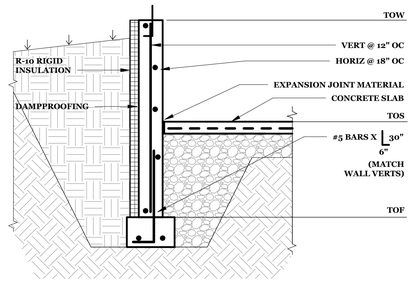
5 S101 CRAWL SPACE WALL
SCALE: 1/2" = 1'-0"



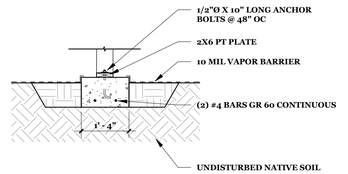
3 S101 POUR OVER WALL
SCALE: 1/2" = 1'-0"



4 S101 FROST WALL W/ SLAB
SCALE: 1/2" = 1'-0"



6 S101 TRANSITION WALL 1
SCALE: 1/2" = 1'-0"



2 S101 STRIP FOOTER DETAIL
SCALE: 1/2" = 1'-0"

SHERIDAN
WYOMING
307-752-9146

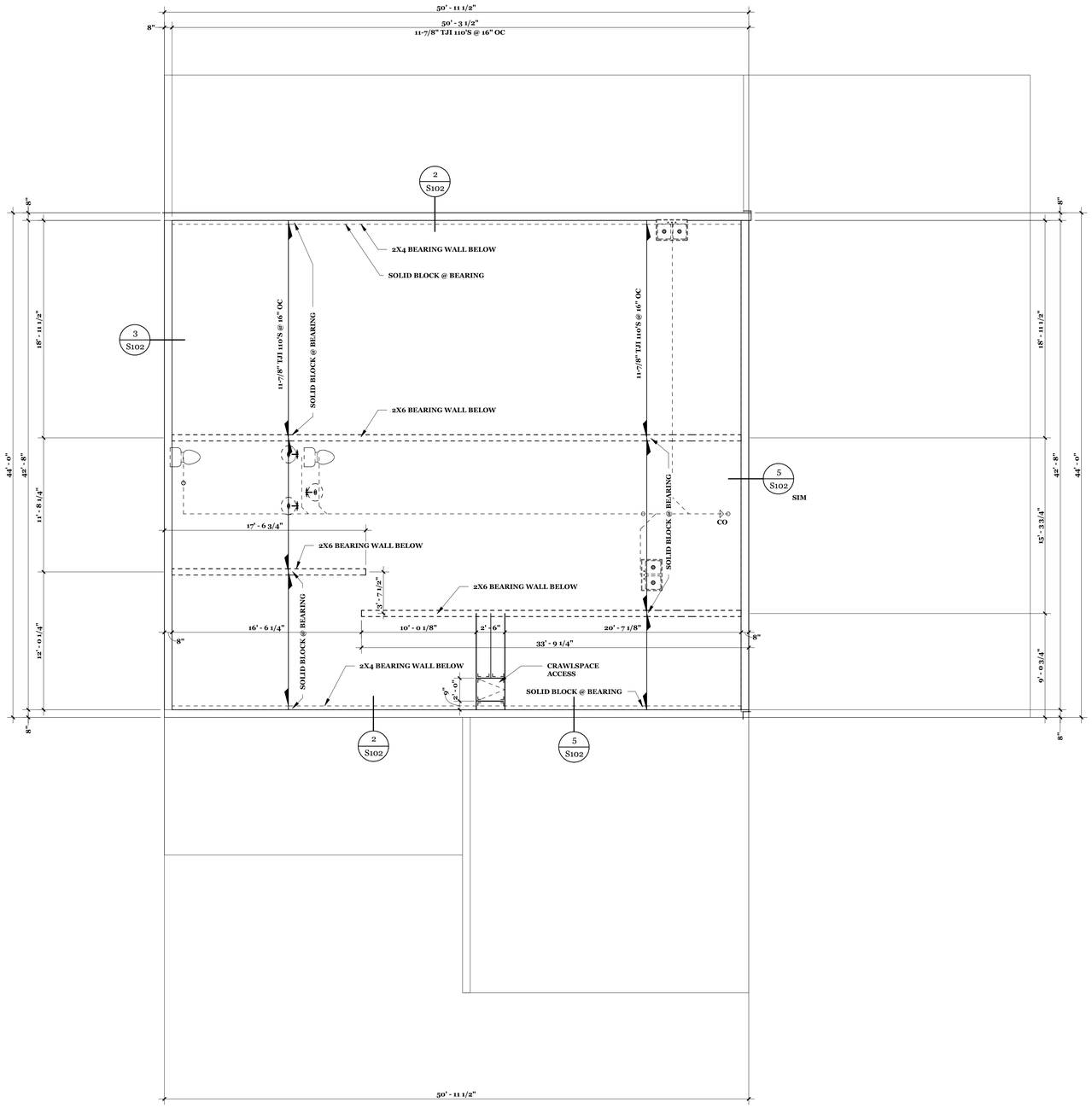
BRIDGER
ENGINEERING
AND DESIGN

Professional Engineer
KYLE A. BRIDGER
17110
Date 2022-11-16
WYOMING
"STRUCTURE ONLY"

FOUNDATION PLAN
GLOCK RESIDENCE
30 GENEVA LN
SHERIDAN, WY 82801
OWNER/CONTRACTOR 480.239.6512

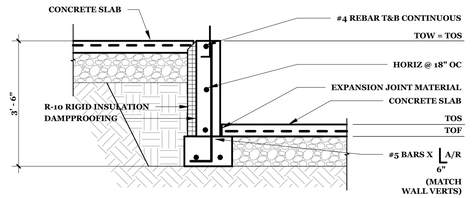
Job #	2022-22
File	22.022
Date	2022.10.24
Drawn	KAB
Checked	KAB
Rel'd	20-17-2022
Reved	

Sheet Number
S101
SHEET 11 OF 14

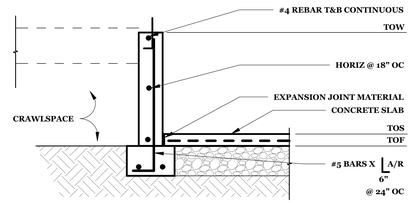


1 S102 MAIN LEVEL FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"

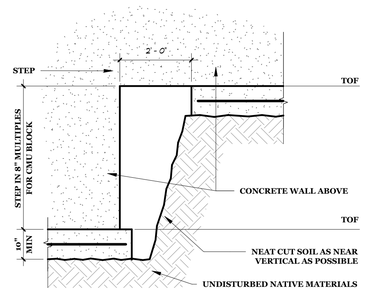
SHEATH FLOOR W/ 24" OC STURDI FLOOR



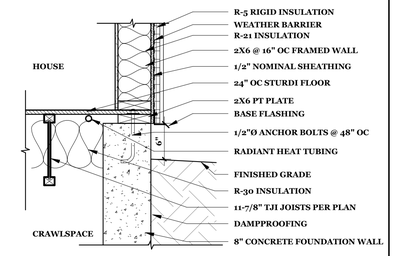
4 S102 TRANSITION WALL 2
SCALE: 1/2" = 1'-0"



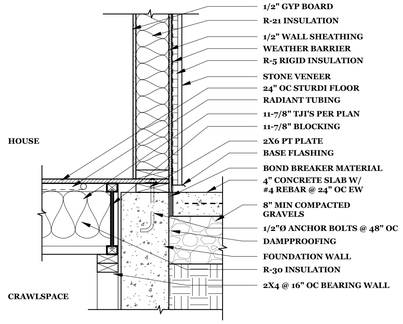
6 S102 TRANSITION WALL 3
SCALE: 1/2" = 1'-0"



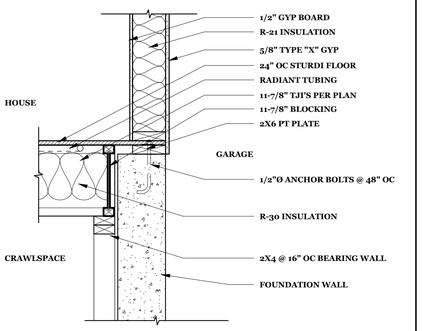
7 S102 INTERUPTED FOOTING
SCALE: 1/2" = 1'-0"



3 S102 FLOOR FRAMING DETAIL A
SCALE: 1" = 1'-0"



2 S102 FLOOR FRAMING DETAIL B
SCALE: 1" = 1'-0"



5 S102 FLOOR FRAMING DETAIL C
SCALE: 1" = 1'-0"

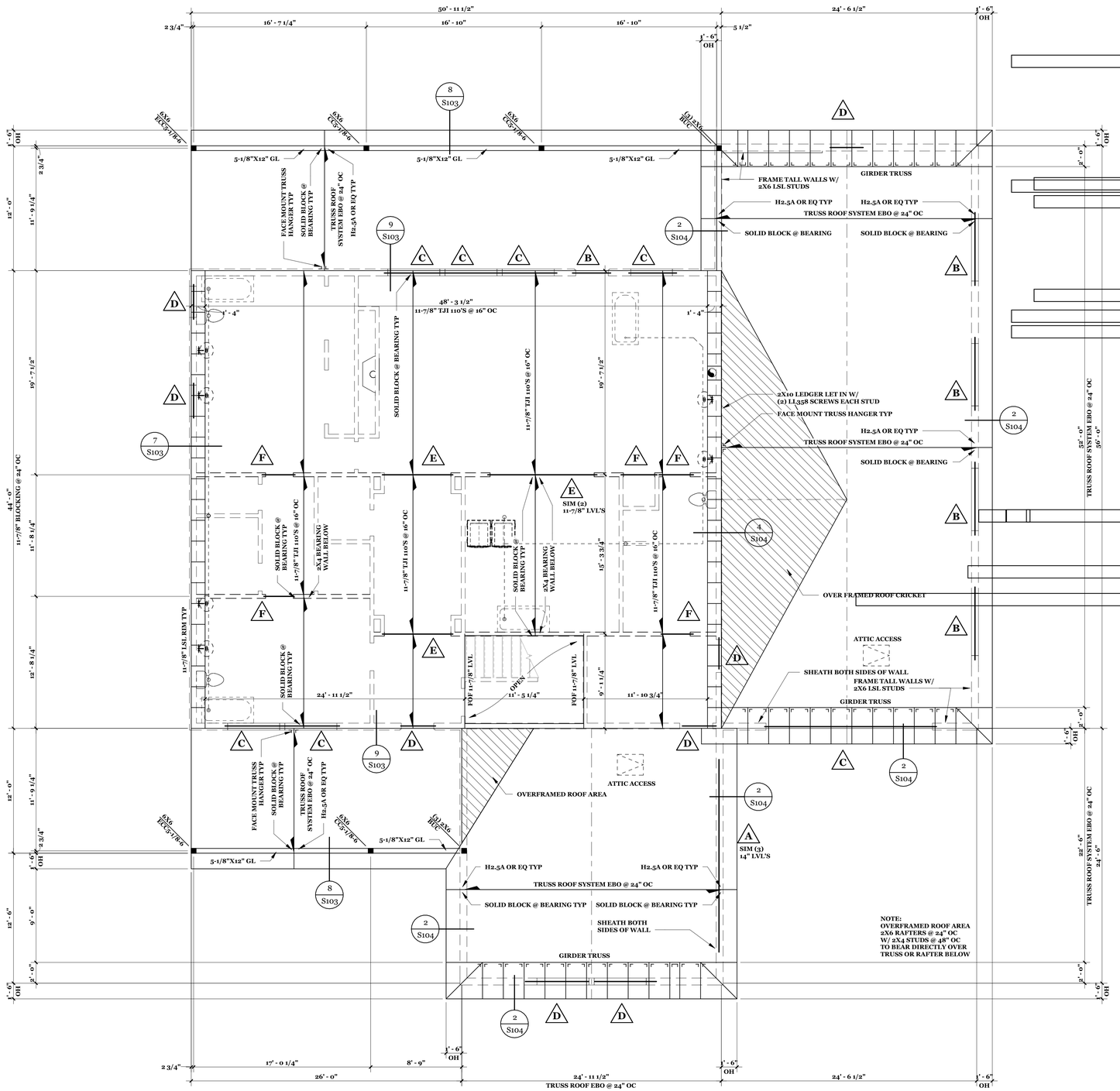
BRIDGER ENGINEERING AND DESIGN
SHERIDAN WYOMING 307-752-9146

Professional Engineer
KYLE A. BRIDGER
17110
Date 2022-11-16
WYOMING
"STRUCTURE ONLY"

MAIN LEVEL FLOOR FRAMING PLAN
GLOCK RESIDENCE
30 GENEVA LN
SHERIDAN, WY 82801
OWNER/CONTRACTOR 480.239.6512

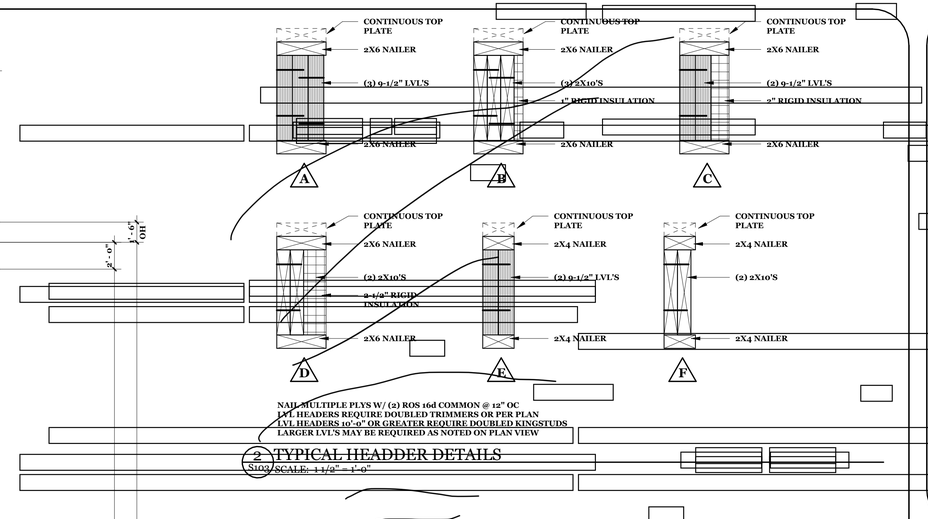
Job #	2022-22
File	22.022
Date	2022.10.24
Drawn	KAB
Checked	KAB
Rel'd	20-17-2022
Reved	

Sheet Number
S102
SHEET 12 OF 14



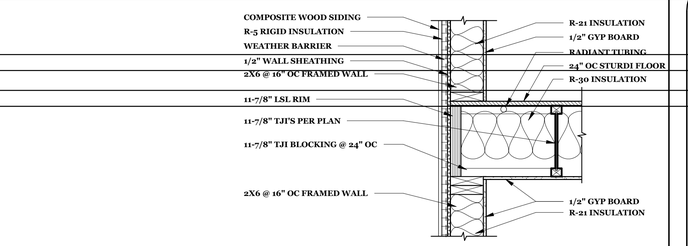
1 S103 UPPER LEVEL FLOOR & LOWER ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"

SHEATH ROOFS W/ 7/16" PLY APA 24/16 EXP 1
SHEATH FLOORS W/ 24" OC STURDI FLOOR
ALL UNLISTED HEADERS TO BE (2) 2X10'S

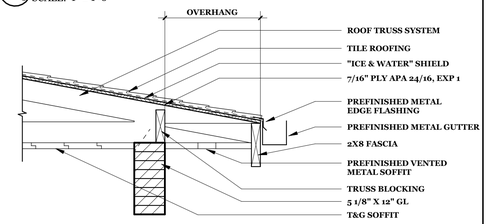


NAIL MULTIPLE PLYS W/ (2) ROS 16d COMMON @ 12" OC
LVL HEADERS REQUIRE DOUBLED TRIMMERS OR PER PLAN
LVL HEADERS 10'-0" OR GREATER REQUIRE DOUBLED KINGSTUDS
LARGER LVL'S MAY BE REQUIRED AS NOTED ON PLAN VIEW

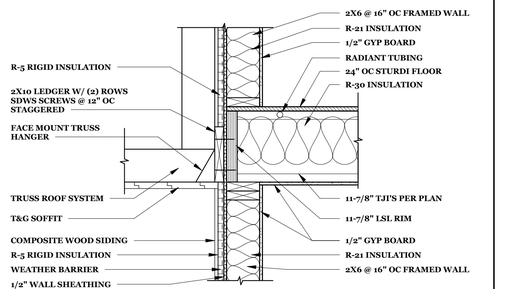
2 S103 TYPICAL HEADDER DETAILS
SCALE: 1 1/2" = 1'-0"



7 S103 FLOOR FRAMING DETAIL E
SCALE: 1" = 1'-0"



8 S103 PORCH ROOF EDGE DETAIL
SCALE: 1" = 1'-0"



9 S103 FLOOR FRAMING DETAIL D
SCALE: 1" = 1'-0"

BRIDGER ENGINEERING AND DESIGN
SHERIDAN WYOMING 307-752-9146

Professional Engineer
KYLE A. BRIDGER
17110
Date 2022-11-16
WYOMING
"STRUCTURE ONLY"

UPPER LEVEL AND LOWER ROOF FRAMING PLAN

GLOCK RESIDENCE

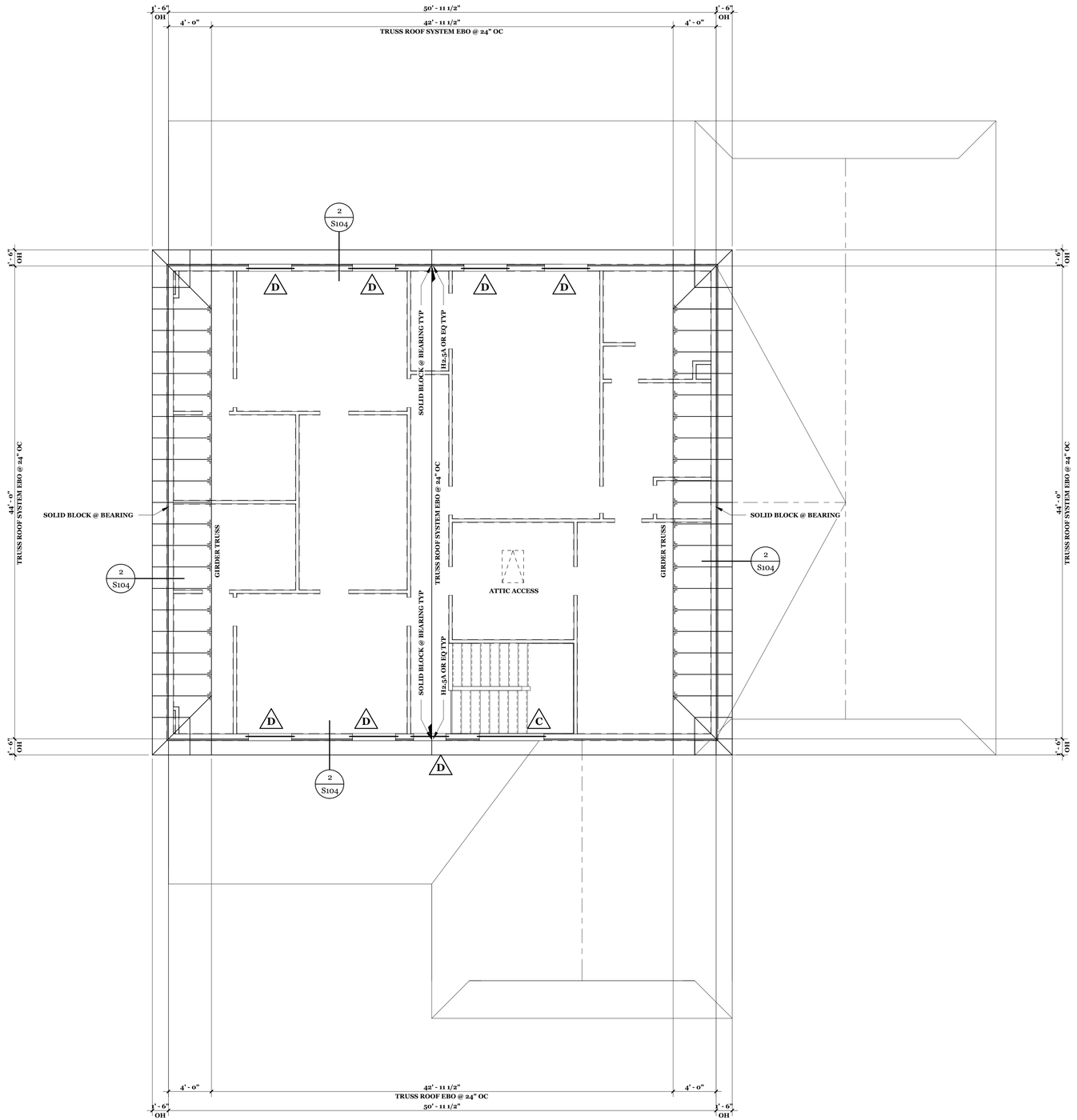
30 GENEVA LN
SHERIDAN, WY 82801
OWNER/CONTRACTOR 480.239.6512

Job #	2022-22
File	22.022
Date	2022.10.24
Drawn	KAB
Checked	KAB
Rel'd	20-17-2022
Reved	

Sheet Number

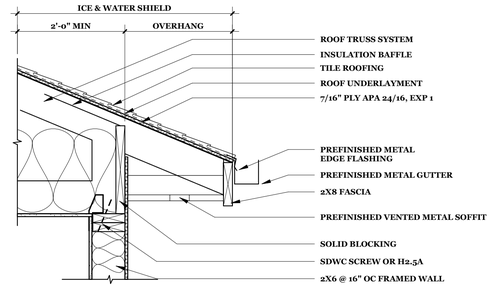
S103

SHEET 13 OF 14

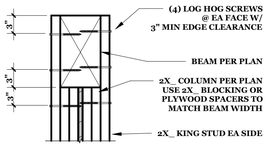


1 S104 UPPER ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"

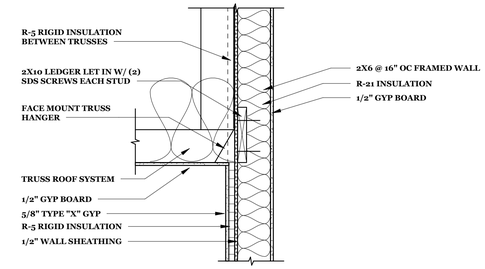
SHEATH ROOFS W/ 7/16" PLY APA 24/16 EXP 1



2 S104 ROOF EDGE DETAIL
SCALE: 1" = 1'-0"



3 S104 BUILT-UP COLUMN
SCALE: 1" = 1'-0"



4 S104 ROOF FRAMING DETAIL A
SCALE: 1" = 1'-0"

SHERIDAN
WYOMING
307-752-9146

BRIDGER
ENGINEERING
AND DESIGN

Professional Engineer
KYLE A. BRIDGER
17110
Date 2022-11-16
WYOMING
"STRUCTURE ONLY"

UPPER ROOF FRAMING PLAN

GLOCK RESIDENCE

30 GENEVA LN
SHERIDAN, WY 82801
OWNER/CONTRACTOR 480.239.6512

Job #	2022-22
File	22.022
Date	2022.10.24
Drawn	KAB
Checked	KAB
Rel'd	20-17-2022
Reved	

Sheet Number

S104

SHEET 14 OF 14