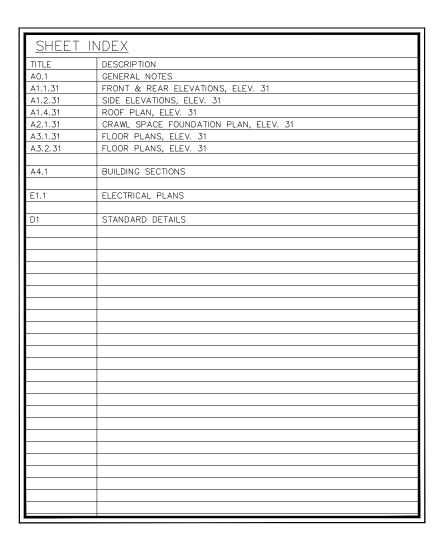
MAGNOLIA ACRES

LOT #25 ROANOKE V2.0 ELEV. 31 196 LITTLE GEM LANE FUQUAY-VARINA, NC

(GARAGE LEFT)







#	DATE	REVISIONS DESCRIPTION
0	10.07.05	PERMIT SET
U	10.23.25	PERMIT SET

AREA CALCULATIONS BASE HOUSE	HEATED	COVERED / UNHEATED	UNHEATED
FIRST FLOOR - ELEV. 31	1739 SF		
PORCH - ELEV. 31		119 SF	
GARAGE		925 SF	
DECK		157 SF	
SECOND FLOOR - ELEV. 31	1576 SF		
BASE HOUSE TOTAL	3315 SF	1201 SF	

GENERAL REQUIREMENTS

- I. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES AND ALL AUTHORITIES HAVING JURISDICTION.
- 2. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS $\underline{\text{IN}}$ WRITING PRIOR TO COMMENCEMENT OF THE WORK, ALL DIMENSIONS SHALL BE READ OR CALCULATED, NEVER SCALED. SHOP DRAWINGS MUST BE SUBMITTED TO THE OWNER BEFORE PROCEEDING WITH FABRICATION OF STAIRS, ROOF, AND FLOOR
- 3. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR, AND WILL NOT HAVE ANY CONTROL OVER: CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OR FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION MITH THE WORK AND WILL NOT BE RESPONSIBLE FOR THE FAILURE OF THE CLIENT OR HIS CONTRACTORS, SUBCONTRACTORS, OR ANYONE ELSE PERFORMING ANY PART OF THE WORK.
- 4. THE ARCHITECT ACCEPTS NO RESPONSIBILITY FOR CHANGES AND DEVIATIONS FROM THESE PLANS UNLESS SUCH CHANGES ARE MADE BY SIGNED LETTER OR CHANGE ORDER.
- 5. ALL PLUMBING, MECHANICAL, AND ELECTRICAL WORK IS TO BE COORDINATED BETWEEN THE TRADES AS PART OF THEIR INSTALLATION LAYOUT.
- 6. ON-SITE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHALL BE RESPONSIBILITY OF EACH SUB-CONTRACTOR.

 7. THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS SHALL
- BE CONSIDERED AS PART OF THE CONDITIONS OF THE WORK.
 IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN IN THE DRAWINGS, CURRENT NATIONAL STATE AND LOCAL CODES AND ORDINANCES, REGULATIONS OR AGREEMENTS AS WELL AS CURRENT ACCEPTABLE BUILDING
- PRACTICES SHALL GOVERN.

 8. ALL PRODUCTS AND MATERIALS MUST BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S
 INSTRUCTIONS, IF A CONFLICT EXISTS BETWEEN THE DRAWINGS
 AND THE MANUFACTURER'S INSTRUCTIONS, CONTACT THE ARCHITECT FOR CLARIFICATION. THE CONTRACTOR SHALL VERIFY THAT ALL MATERIALS INSTALLED COMPLY WITH APPLICABLE CODES AND REGULATIONS.
- 9. PROVIDE A MINIMUM OF 6'-B" HEAD CLEARANCE FOR ALL STAIRS, STAIR RISERS SHALL NOT EXCEED 7 3/4" AND TREADS SHALL BE AT LEAST IO", UNLESS LOCAL CODES REQUIRE OTHERWISE.
- IO.SLOPE ALL CONCRETE STOOPS, PORCHES, WALKS, AND GARAGE SLABS 1/8" PER 12" TO DRAIN, OR AS NOTED ON PI ANS
- II. PROVIDE 22 I/2" X 30" ATTIC ACCESS WITH SWITCHED LIGHT,
- UNLESS OTHERWISE NOTED.

 12. HANDRAIL HEIGHT SHALL BE 34" MINIMUM AND 38" MAXIMUM MEASURED VERTICALLY FROM THE LEADING EDGE OF THE NOSING. HANDRAILS MUST BE CONTINUOUS THE FULL LENGTH OF THE FLIGHT, FROM A POINT DIRECTLY ABOVE THE TOP RISER TO A POINT DIRECTLY ABOVE THE LOWEST RISER OF THE FLIGHT, THE HANDRAIL ENDS SHALL SHALL TERMINATE IN
- NEWEL POST OF SAFETY TERMINAL.

 13. PROVIDE GUARDRAILS AT RAISED FLOORS, BALCONIES, ETC,
 30" OR MORE ABOVE GRADE OR FLOOR BELOW. GUARDS SHALL BE A MINIMUM OF 36" HIGH (UNLESS NOTED OTHERWISE) AND HAVE BALUSTERS SPACED TO PREVENT PASSAGE OF A 4" SPHERE. HANDRAILS SHALL HAVE A MAXIMUM 2" GRIP CIRCULAR CROSS SECTION.
- 14. PROVIDE NOMINAL 2X FIRE BLOCKING AT EVERY FLOOR INTERVAL, BULKHEADS, CHASES, AND AT MAXIMUM IO' HEIGHT FOR WALLS OVER 10' TALL. IF OPEN WEB FLOOR TRUSSES ARE USED, PROVIDE DRAFT STOPPING FOR AREAS TO NOT TO EXCEED 1000 S.F.
- 15. ALL DESIGNS FOR MANUFACTURED FLOOR JOIST, RAFTERS, AND TRUSSES SHALL BE CERTIFIED BY THE MANUFACTURER. INSTALLATION OF SUCH ITEMS SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S SHOP DRAWINGS AND RECOMMENDATIONS.
- 16.THE CONTRACTOR SHALL SEAL ALL PENETRATIONS AND OPENINGS IN FLOORS AND WALLS TO MINIMIZE THE TRANSFER OF DRAFTS AND MOISTURE. SHEATHING PENETRATIONS SHALL BE PATCHED AND REPAIRED TO MANUFACTURER'S SPECIFICATIONS
- CHIMNEYS SHALL EXTEND A MINIMUM OF 2' ABOVE ANY ROOF STRUCTURE WITHIN IO', BUT NOT LESS THAN, 3' AT POINT OF ROOF PENETRATION.

EXCAVATION AND SITE WORK

- SOIL BEARING CAPACITY SHALL BE VERIFIED BY THE CONTRACTOR.
- 2. EXCAVATION SHALL BE SUFFICIENT TO PROVIDE FULL DESIGN DIMENSIONS OR TO ALLOW FOR FORMING AS REQUIRED. NO FOOTINGS SHALL BE PLACED ON UNUSABLE MATERIAL (PROVIDING LESS THAN 1500 P.S.F. CAPACITY).
- 3 BACKFILL SHALL ONLY BE CLEAN FARTH CONTAINING NO ORGANIC MATTER, GRADED WITH POSITIVE SLOPE. FILL BENEATH STRUCTURE SHALL BE COMPACTED TO 95% DENSITY AS PER ASTM DI557 METHOD D. DO NOT COMPACT BACKFILL UNTIL IST FLOOR FRAMING OR TEMPORARY BRACING IS IN
- 4. PROVIDE 4" MINIMUM CONTINUOUS DRAIN TILE AROUND PERIMETER OF BASEMENT FOUNDATION. OPTIONAL INTERIOR DRAIN TILE MAY BE INSTALLED AT THE BUILDERS DISCRETION UNLESS WHERE OTHERWISE REQUIRED BY AHJ.
- . PROVIDE PASSIVE UNDER SLAB RADON VENTING WHEN

- REQUIRED BY LOCAL CODES IN ACCORDANCE WITH APPENDIX F OF THE I.R.C. CODES.
- 6. NO STRUCTURES SHALL BE BUILT ON OR ADJACENT TO GRADES EXCEEDING 33.3%, UNLESS SPECIFICALLY ENGINEERED FOOTINGS AND FOUNDATIONS ARE UTILIZED CONFORMING TO

CONCRETE

I. REFERENCE STRUCTURAL NOTES AND DRAWINGS.

VERTICAL MASONRY

I. REFERENCE STRUCTURAL NOTES AND DRAWINGS.

STEEL

I. REFERENCE STRUCTURAL NOTES AND DRAWINGS.

CARPENTRY

I. REFERENCE STRUCTURAL NOTES AND DRAWINGS.

THERMAL AND MOISTURE PROTECTION

- I. PROVIDE DAMPPROOFING PER IRC SECTION R406.I TO THE EXTERIOR OF ALL BELOW GRADE WALLS AT BASEMENT CONDITIONS WHERE WATERPROOFING IS NOT REQUIRED. WATERPROOFING SHALL COMPLY WITH IRC SECTION R406.2, WHERE REQUIRED.
- 2. PROVIDE 6-MIL POLYETHYLENE VAPOR BARRIER BENEATH SLAB, OVERLAP ALL EDGES 6" MINIMUM.
 3. PROVIDE COMPRESSIBLE FIBERGLASS SILL SEALER OR OTHER
- APPROVED SILL SEALER BENEATH ALL EXTERIOR SILL PLATES.

 4. PROVIDE APPROVED CORROSION RESISTANT FLASHING AT THE INTERSECTIONS OF MASONRY AND WOOD FRAME CONSTRUCTION, OVER PROJECTING WOOD TRIM, WHERE DECKS, PORCHES, ETC., ARE ATTACHED TO WOOD FRAME CONSTRUCTION AT WALL AND ROOF INTERSECTIONS, AT CHIMNEY AND ROOF INTERSECTIONS, IN ROOF VALLEYS, AT ALL ROOF PENETRATIONS, AND AT WALL OPENINGS AS RECOMMENDED BY WINDOW AND DOOR MANUFACTURERS TO MEET IRC RT034
- 5. PROVIDE AND INSTALL THERMAL INSULATION TO MEET THE ADOPTED ENERGY CODE. COMPLIANCE METHOD SHALL BE DETERMINED BY THE BUILDER. ALL INSULATION SHALL INCLUDE AN INTEGRAL VAPOR BARRIER POSITIONED ON THE WARM SIDE OF THE WALL / CEILING. EXPOSED INSULATION IN UNFINISHED SPACE SHALL HAVE A MIN. FS-25 FACING.
- 6. ROOFING, UNLESS NOTED OTHERWISE, SHALL BE MIN. CLASS C FIBERGLASS BASED ASPHALT SHINGLES OVER 15# FELT. ATTACH STRIP SHINGLES W/ MIN. OF 4 FASTENERS. EAVE FLASHING TO A POINT 24" INSIDE OF INTERIOR FACE OF WALL LINE MAY BE INSTALLED AT THE OWNER'S DISCRETION. PROVIDE DOUBLE UNDERLAYMENT FOR ROOF SLOPES UP TO 4/I2 PITCH
- 7. PROVIDE AND INSTALL CONTINUOUS STRUCTURAL WOOD PANEL SHEATHING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND MODEL CODE REQUIREMENTS. REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS.
- 8. PROVIDE SIDING MATERIAL AS SHOWN ON ELEVATIONS.
 INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS, INSTALL OVER #15 FELT OR APPROVED WEATHER RESISTIVE MATERIALS, AIR INFILTRATION BARRIER OR MOISTURE RESISTANT SHEATHING.
- RESISTANT STLATFING.

 9. GUTTERS SHALL BE .032" PREFINISHED ALUMINUM GUTTERS WITH .024" PREFINISHED ALUMINUM LEADERS, LEAD TO SPLASH BLOCKS OR AS REQUIRED BY THE AHJ. COORDINATE WITH SITE
- IO.PROVIDE SOFFIT VENTS, RIDGE VENTS, AND/OR GABLE END PROVIDE SOFFIT VENTS, RIDGE VENTS, AND/OR GABLE END VENTS AS REQUIRED TO MAINTAIN A MINIMUM (1/50 NET FREE VENTILATION FOR HORIZONTALLY PROJECTED ROOF AREA PER IRC SECTION ROOG. ALTERNATIVELY, PROVIDE 1/300 NET FREE VENTILATION FOR HORIZONTALLY PROJECTED ROOF AREA, PROVIDED THERE 15 A MIN 40% TO MAX 50% OF REQUIRED VENTILATION LOCATED NOT MORE THAN 3' BELOW PROSED NUMBER OF THE COMMENTS. RIDGE OR HIGHEST POINT OF THE SPACE MEASURED VERTICALLY, THE BALANCE OF THE REQUIRED VENTILATION SHALL BE PROVIDED IN THE BOTTOM ONE-THIRD OF THE ATTIC SPACE. INSTALL PLASTIC OR CARDBOARD BAFFLES IN EACH TRUSS / RAFTER BAY TO MAINTAIN FREE AIR FLOW, MINIMUM I' BETWEEN INSULATION AND ROOF SHEATHING. PROVIDE OPENING IN OVERFRAMING AREAS AS ALLOWED PER STRUCTURAL DRAWINGS TO MAINTAIN FREE AIR FLOW.
- II. ALL LOOSE FILL INSULATION MATERIAL INCLUDING FACING MUST HAVE A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE-DEVELOPMENT INDEX THAT DOES NOT EXCEED 450.
 ALL LOOSE FILL INSULATION SUPPORT MUST COMPLY WITH ABOVE LIMITS IF IT DOES NOT COMPLY WITH ASTM E84 OR UL
- 12.WALL COVERINGS, BACKING MATERIALS AND THEIR ATTACHMENTS SHALL BE CAPABLE OF RESISTING WIND LOADS IN ACCORDANCE WITH TABLES R301.2(2) AND R301.2(3).

DOORS, WINDOWS, AND GLAZING

- I. THE CONTRACTOR SHALL VERIFY AND COORDINATE ROUGH OPENINGS FOR ALL DOORS AND WINDOWS PRIOR TO START OF CONSTRUCTION. INSTALLATION SHALL BE IN ACCORDANCE
- MITH MANUFACTURER'S MRITTEN INSTRUCTIONS.

 2. ALL DWELLINGS SHALL BE PROVIDED WITH A MEANS OF EGRESS IN ACCORDANCE WITH IRC SECTION R3II THAT LEADS TO A PUBLIC WAY.

- 3. EACH BEDROOM SHALL HAVE AT LEAST ONE OPERABLE MINDOW WITH 5.7SF (5.0 SF AT GRADE CONDITIONS) OF NET CLEAR OPENING AS CERTIFIED BY THE MANUFACTURER, WITH A SILL HEIGHT OF NOT MORE THAN 44" AFF OR OTHER DIRECT MEANS OF EGRESS TO THE OUTSIDE. WINDOW WELLS, IF REQUIRED, SHALL BE 3'X3' MINIMUM.
- 4. SAFETY GLAZING SHALL BE PROVIDED AND CLEARLY LABELED PER R308.I IN HAZARDOUS LOCATIONS PER IRC SECTION 308.4 INCLUDING:
 - ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING, AND BIFOLD DOORS
 - ALL SHOWER AND TUB ENCLOSURES
 - MINDOWS MITHIN 60" OF TUB OR SHOWER AND BOTTOM GLAZING IS LESS THAN 60"AFF
 - FIXED PANELS GREATER THAN 9.0 SF WITHIN 18" AFF - GLAZING MITHIN 36" OF THE WALKING SURFACE OF STAIRS, LANDINGS BETWEEN FLIGHTS OF STAIRS, AND RAMPS.
 - GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF A STAIRWAY WHERE THE GLAZING IS LESS THAN 36" ABOVE THE LANDING AND WITHIN A 60" HORIZONTAL ARC LESS THAN 180 DEGREES FROM THE BOTTOM TREAD NOSING.
 - GLAZING WITHIN 24" RADIUS OF THE EITHER SIDE OF DOORS IN THE PLANE OF THE DOOR IN A CLOSED POSITION
- GLAZING ON A WALL LESS THAN 180 DEGREES FROM THE PLANE OF A DOOR IN A CLOSED POSITION AND WITHIN 24" OF THE HINGE SIDE OF AN IN-SWINGING DOOR
- 5. PROVIDE SELF-CLOSING DOOR BETWEEN DWELLING AND GARAGE I 3/4" THICK SOLID WOOD OR INSULATED STEEL W/ 20 MINUTE FIRE RATING
- 6. AUTOMATIC OVERHEAD GARAGE DOOR OPENERS SHALL BE UL LISTED IN ACCORDANCE WITH UL 325.

FINISHES

- PROVIDE I/2" TAPERED EDGE GYPSUM BOARD TO BE APPLIED, TAPED, AND FINISHED IN ACCORDANCE WITH GYPSUM ASSOCIATION GA-216 AND ASTM C-840.
 PROVIDE 5/8" TYPE X GYPSUM BOARD AT GARAGE TO
- COMPLETELY SEPARATE GARAGE FROM LIVING AREA PER IRC SECTION R302.6.
 3. PROVIDE FIRE RATED ASSEMBLIES, IF APPLICABLE, AS
- DETAILED FOR PARTYWALLS OR OTHER RATED WALLS OR FLOORS. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE TESTING AGENCY'S REQUIREMENTS.
- 4. UNDERSIDE AND WALLS OF ACCESSIBLE ENCLOSED SPACE UNDER STAIRS SHALL BE PROTECTED WITH MINIMUM I/2" GYPSUM BOARD.
- STPSUM BOARD.

 5. PROVIDE WATER RESISTANT FIBER-CEMENT, FIBER-MAT REINFORCED CEMENT, GLASS MAT GYPSUM BACKERS, OR FIBER-REINFORCED GYPSUM BACKERS IN COMPLIANCE WITH ASTM C 1288, C 1325, C 1178, OR C1278, AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AS BACKER BOARD FOR WALL TILE AT TUBS AND SHOWER AREA AND WALL PANELS IN SHOWER AREAS AS SHOWN ON THE DETAILS IN THE ARCHITECTURAL DRAWINGS, OR A MINIMUM OF 6' ABOVE THE DRAIN IF NOT INDICATED OTHERWISE.
 6. ALL MATERIAL FINISHES AND STYLES INCLUDING BUT NOT
- LIMITED TO EXTERIOR SIDING, ROOFING, WINDOWS, EXTERIOR TRIM, ALL INTERIOR MILLWORK, FLOORING, TILE, ETC. SHALL BE

SPECIALTIES

- I. PRE-BUILT FIREPLACES SHALL BE UL LISTED AND INSTALLED ACCORDING TO THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 2. BATHROOM ACCESSORIES SHALL BE AS SPECIFIED BY THE OWNER
- 3. MIRROR QUALITY AND SIZE SHALL BE SPECIFIED BY THE OWNER

MECHANICAL AND PLUMBING

- I. ALL WORK SHALL BE IN COMPLIANCE WITH ALL LOCAL MECHANICAL AND PLUMBING CODES. HVAC AND PLUMBING CONTRACTORS SHALL COORDINATE ALL OPENINGS IN JOISTS, TRUSSES, ETC. WITH GENERAL CONTRACTOR BEFORE PROCEEDING WITH ANY WORK.
- 2. PROVIDE ONE DAMPER REGISTER PER 900 SF OF UNFINISHED BASEMENT. IF APPLICABLE.
- 3. PROVIDE EXHAUST FANS AT EACH BATHROOM AND VENT TO EXTERIOR OF DWELLING.

 4. IF APPLICABLE AND REQUIRED BY THE AHJ. PROVIDE FIRE
- SUPPRESSION SYSTEMS IN ACCORDANCE WITH NFPA D. CONFIRM REQUIREMENTS WITH LOCAL JURISDICTION BEFORE PROCEEDING WITH ANY WORK.
- 5. DUCTWORK PENETRATING A RATED WALL OR FLOOR
 ASSEMBLY SHALL BE PROVIDED WITH FIRE DAMPERS.
- 6. ALL VENTS AND FLUES SHALL BE INSTALLED WITH A MINIMUM OF I" CLEARANCE TO ADJACENT WOOD FRAMING, GREATER IF SPECIFIED BY MANUFACTURER.
- 7. PROVIDE SLEEVE FOR ANY PIPING PASSING UNDER FOOTINGS OR THROUGH A FOUNDATION WALL OR SLAB. SLEEVE SHALL BE TWO PIPE SIZES LARGER THAN SUBJECT PIPE.
- 8. PROVIDE OVERFLOW PANS AND DRAINS FOR WASHER AND/OR HOT WATER HEATER WHEN LOCATED WHERE LEAKAGE WILL CAUSE DAMAGE.
- 9. PROVIDE HOSE BIBBS (FROST-FREE OR WITH SHUT-OFF) AT FRONT AND REAR OF DWELLING OR WHERE SHOWN ON PLANS.
- IO.PROVIDE I I/2" CONDENSATE LINE FROM WATER HEATER AND AIR HANDLER TO POSITIVE OUTFALL OR TO SUMP PUMP IF PROVIDED, OR AS REQUIRED BY AHJ.

- I. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, THE LOCAL POWER COMPANY, AND ALL APPLICABLE LOCAL REGULATIONS.

 2. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
- 3. PROVIDE GFI RECEPTACLES AT ALL WET LOCATIONS, KITCHEN COUNTERS, WITHIN 6' OF A SINK, TUB, OR SHOWER, IN GARAGES, IN UNFINISHED BASEMENTS, AND IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE REQUIREMENTS. ALL BRANCH CIRCUITS NOT COVERED BY GFI RECEPTACLES SHALL BE PROTECTED BY ARC-FAULT CIRCUIT INTERRUPTERS PER NATIONAL ELECTRICAL CODE.
- 4. PROVIDE HARDWIRED SMOKE DETECTORS IN EACH SLEEPING ROOM AND AT EACH FLOOR LEVEL WITHIN IO' OF EACH SLEEPING AREA, NOT CLOSER THAN 4' FROM RETURN AIR INLETS, AND NOT CLOSER THAN 3' FROM A DOOR TO A BATHROOM CONTAINING A TUB OR SHOWER, ALL DETECTORS SHALL BE INTERCONNECTED TO SOUND SIMULTANEOUSLY.
- 5. PROVIDE CARBON MONOXIDE DETECTORS WITHIN IO' OF EACH SLEEPING AREA. CARBON MONOXIDE DETECTORS ARE REQUIRED TO BE INTERCONNECTED.
- 6. IF REQUIRED BY THE LOCAL JURISDICTION, PROVIDE FOR FUTURE INSTALLATION OF AN ACTIVE RADON EXTRACTION FAN (W/ SWITCH), LOCATED IN ATTIC SPACE.
- 7. ALL PERMANENT APPLIANCES SHALL BE PROVIDED WITH BRANCH CIRCUIT OVER CURRENT DISCONNECTION. FOR APPLIANCES RATED OVER 300 VOLT-AMPERES, OR 1/8 H/P, DISCONNECT SHALL BE WITHIN LINE OF SIGHT
- 8. PROVIDE PROGRAMMABLE THERMOSTAT WITH SETBACK CAPABILITY. 9. NOT LESS THAN 75% OF THE LAMPS IN PERMANENTLY INSTALLED FIXTURES SHALL BE HIGH-EFFICACY LAMPS.

GROUP ARCHITECTURE E, SUITE 201, QUAKERTOWN, PA 18 Ш S Z Z

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NON I 2 GENERAL HOUSE NAME: ROANOKE DRAWING

SHEET No.

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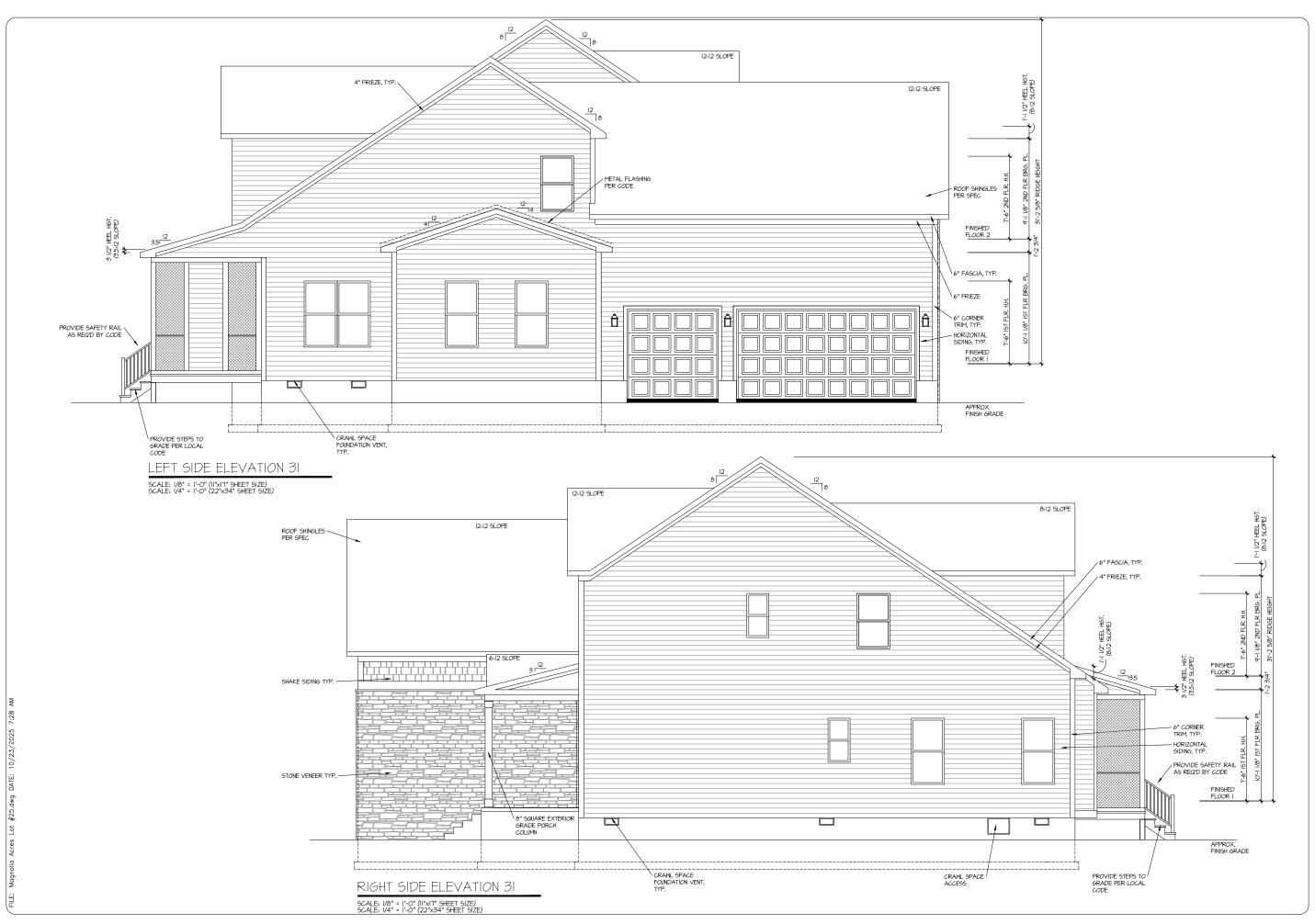


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ELEVATIONS #25 REAR V2.0 HOUSE NAME:
ROANOKE V
BRAWING TITLE
FRONT & F
ELEV. 31

SHEET No. A1.1.31



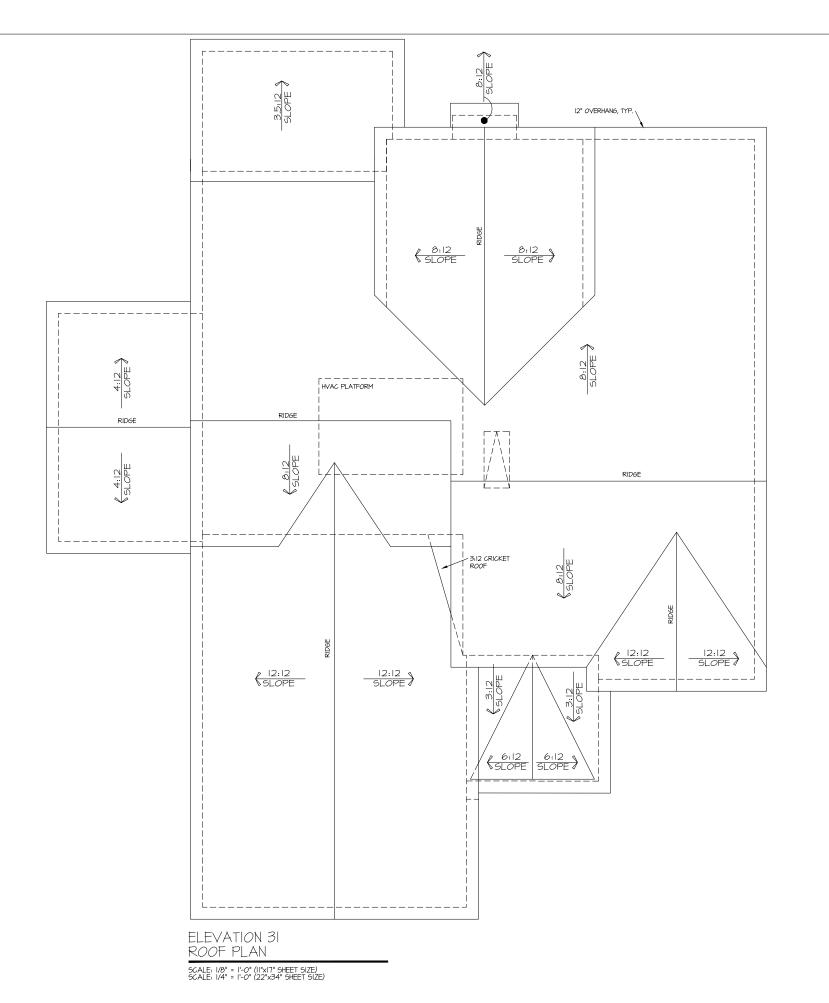


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DATE: 10.23.25



HOUSE NAME:
ROANOKE V2.0 - LOT #25
DRAWING TITLE
SIDE ELEVATION, ELEV. 31

SHEET No. A1.2.31



GENERAL ROOF NOTES

- PROVIDE ROOF VENTILATION AS REQUIRED PER IRC SECTION R806.
 CONTRACTOR SHALL VERIFY NET FREE AREA OF THE VENT PRODUCT SELECTED
 BY OWNER. INSTALL VENT PRODUCTS PER MANUFACTURER'S REQUIREMENTS AND
 WRITTEN INSTRUCTIONS. PROVIDE INSULATION BAFFLE AS REQUIRED TO
 MAINTAIN NOT LESS THAN I'S PACE BETWEEN INSULATION AND ROOF SHEATHING
 PER R806.3.
- 2. IN AREAS OF OVERFRAMING, SHEATHING SHALL BE INTERRUPTED FOR CONTINUITY OF ATTIC VENTING, SEE STRUCTURAL DRAWINGS.
- 3. ALL FIREPLACE FLUE VENTS PENETRATING THE ROOF SHALL COMPLY WITH ALL CODE & MANUFACTURER HEIGHT / OFFSET DISTANCE REQUIREMENTS AND BE APPROPRIATELY FLASHED.
- 4. ALL GUTTERS AND LEADERS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS, LOCATE PER BUILDER.
- ALL PLUMBING VENTS SHALL BE COMBINED INTO A MINIMUM AMOUNT OF ROOF PENETRATIONS, ALL ROOF PENETRATIONS SHALL OCCUR TO THE REAR OF THE MAIN RIDGE.

MAIN ROOF VENTILATION CALC	ULATIONS
ROOF AREA	1,745 SF
TOTAL NET FREE AREA REQ'D (1 TO 150)	1,675 SQ. IN.
TOTAL NET FREE AREA REQ'D (1 TO 300)*	838.0 SQ. IN.
INTAKE (50% SOFFIT) VENTILATION REQ'D @ 1/300	419.0 SQ. IN.
EXHAUST (50% RIDGE) VENTILATION REQ'D @ 1/300	419.0 SQ. IN.

* PER R806, NOT LESS THAN 40% AND NOT MORE THAN 50% OF THE REQ'D VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. THE BALANCE OF THE REQ'D VENTILATION SHALL BE PROVIDED BY EAVE OR CORNICE VENTS.

GARAGE ROOF VENTILATION CAL	CULATIONS
ROOF AREA	680 SF
TOTAL NET FREE AREA REQ'D (1 TO 150)	653 SQ. IN.
TOTAL NET FREE AREA REQ'D (1 TO 300)*	327.0 SQ. IN.
INTAKE (50% SOFFIT) VENTILATION REQ'D @ 1/300	164.0 SQ. IN.
EXHAUST (50% RIDGE) VENTILATION REQ'D @ 1/300	164.0 SQ. IN.

* PER R806, NOT LESS THAN 40% AND NOT MORE THAN 50% OF THE REQ'D VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. THE BALANCE OF THE REQ'D VENTILATION SHALL BE PROVIDED BY EAVE OR CORNICE VENTS.

MOTOR COURT GARAGE ROOF \	/ENTILATION		
CALCULATIONS			
ROOF AREA	228 SF		
TOTAL NET FREE AREA REQ'D (1 TO 150)	219 SQ. IN.		
TOTAL NET FREE AREA REQ'D (1 TO 300)*	110.0 SQ. IN.		
INTAKE (50% SOFFIT) VENTILATION REQ'D @ 1/300	55.0 SQ. IN.		
EXHAUST (50% RIDGE) VENTILATION REQ'D @ 1/300	55.0 SQ. IN.		

* PER R806, NOT LESS THAN 40% AND NOT MORE THAN 50% OF THE REQ'D VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. THE BALANCE OF THE REQ'D VENTILATION SHALL BE PROVIDED BY EAVE OR CORNICE VENTS.

SCREENED PORCH ROOF VEN	NTILATION		
CALCULATIONS			
ROOF AREA	157 SF		
TOTAL NET FREE AREA REQ'D (1 TO 150)	151 SQ. IN.		
TOTAL NET FREE AREA REQ'D (1 TO 300)*	76.0 SQ. IN.		
INTAKE (50% SOFFIT) VENTILATION REQ'D @ 1/300	38.0 SQ. IN.		
EXHAUST (50% RIDGE) VENTILATION REQ'D @ 1/300	38.0 SQ. IN.		
+ DED DOOD NOT LEGO THAN 40% AND NOT MODE T	IAN FOR OF THE		

* PER R806, NOT LESS THAN 40% AND NOT MORE THAN 50% OF THE REQ'D VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC OR RAFTER SPACE. THE BALANCE OF THE REQ'D VENTILATION SHALL BE PROVIDED BY EAVE OR CORNICE VENTS.



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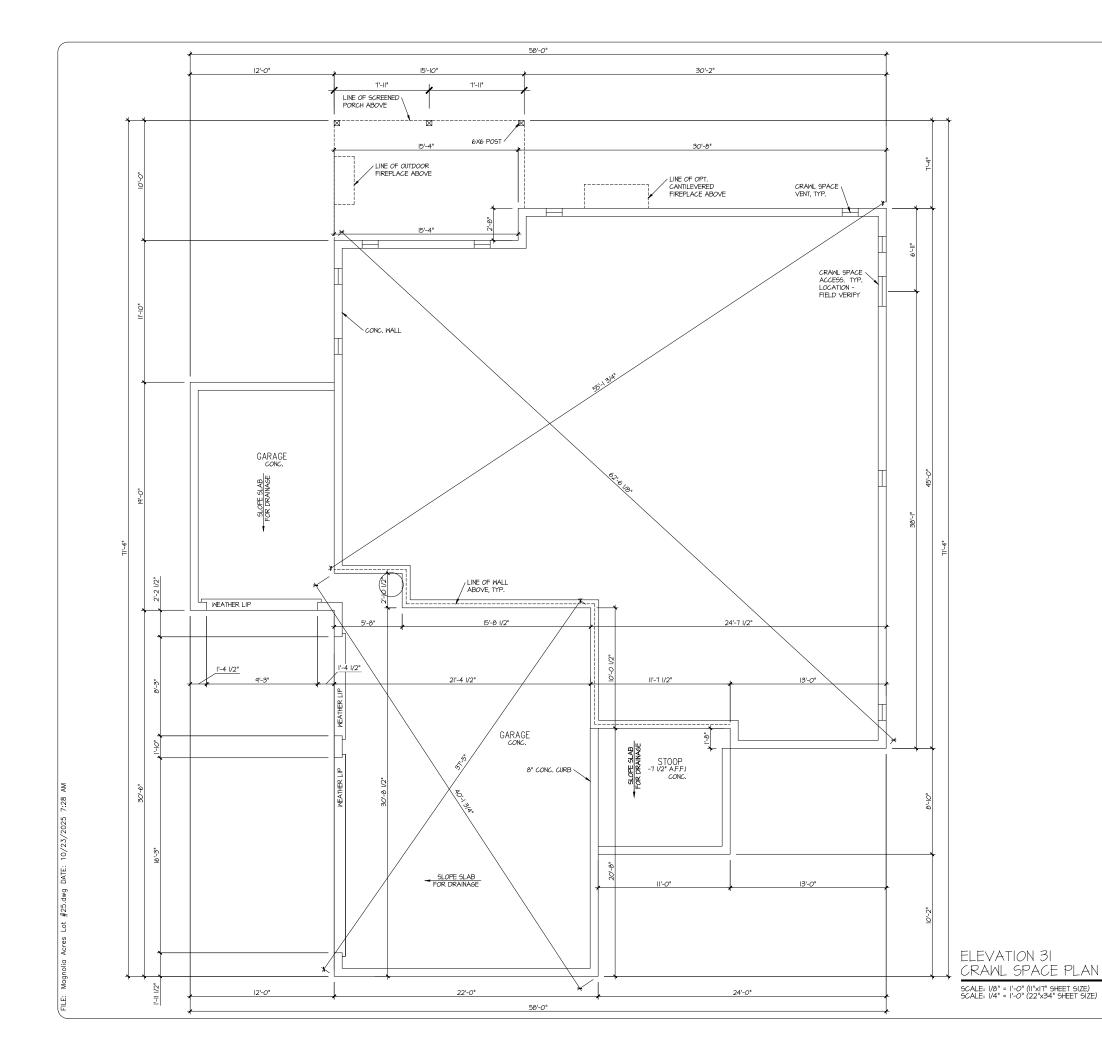
E V2.0 — LOT #25 πιε PLAN, ELEV. 31

HOUSE NAME: ROANOKE V2.(DRAWING TITLE

ROOF

SHEET No.

A1.4.31



GENERAL SLAB PLAN NOTES

- I. THIS SLAB PERIMETER PLAN IS FOR DIMENSIONAL INFORMATION ONLY.
- 2. SLOPE ALL STOOPS AND HARDSCAPE MATERIALS AWAY FROM BUILDING, TYP.
- 3. SLOPE GARAGE FLOOR 1/8" PER FOOT TO GARAGE DOOR OPENING.
- 4. REFER TO CIVIL DRAWINGS FOR FINISH SURFACE ELEVATIONS.
- 5. REFER TO STRUCTURAL DRAWINGS FOR HOLD DOWNS, FOOTING DETAILS, CURB THICKNESSES, AND OTHER INFORMATION NOT SHOWN ON THIS PLAN.
- 6. PLUMBING FIXTURES, VENT LOCATIONS, AND OTHER SLAB PENETRATIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY COUNT AND LOCATION.
- VERIFY THE SUPPLY FOR SEPARATE CONDUITS TO ANY ISLAND FOR GAS, WATER, OR ELECTRIC.
- 8. VERIFY ALL DOOR THRESHOLD HEIGHTS TO HARD SURFACES, 7 3/4" MAXIMUM AT IN-SWING DOORS (PER LOCAL CODES), TYPICAL STOOP AT IN-SWING/SLIDER DOORS SHALL BE MINIMUM 36" DEEP BY WIDTH OF THE DOOR SERVED, MINIMUM (PER LOCAL CODES).





SEAL

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DATE: 10.23.25

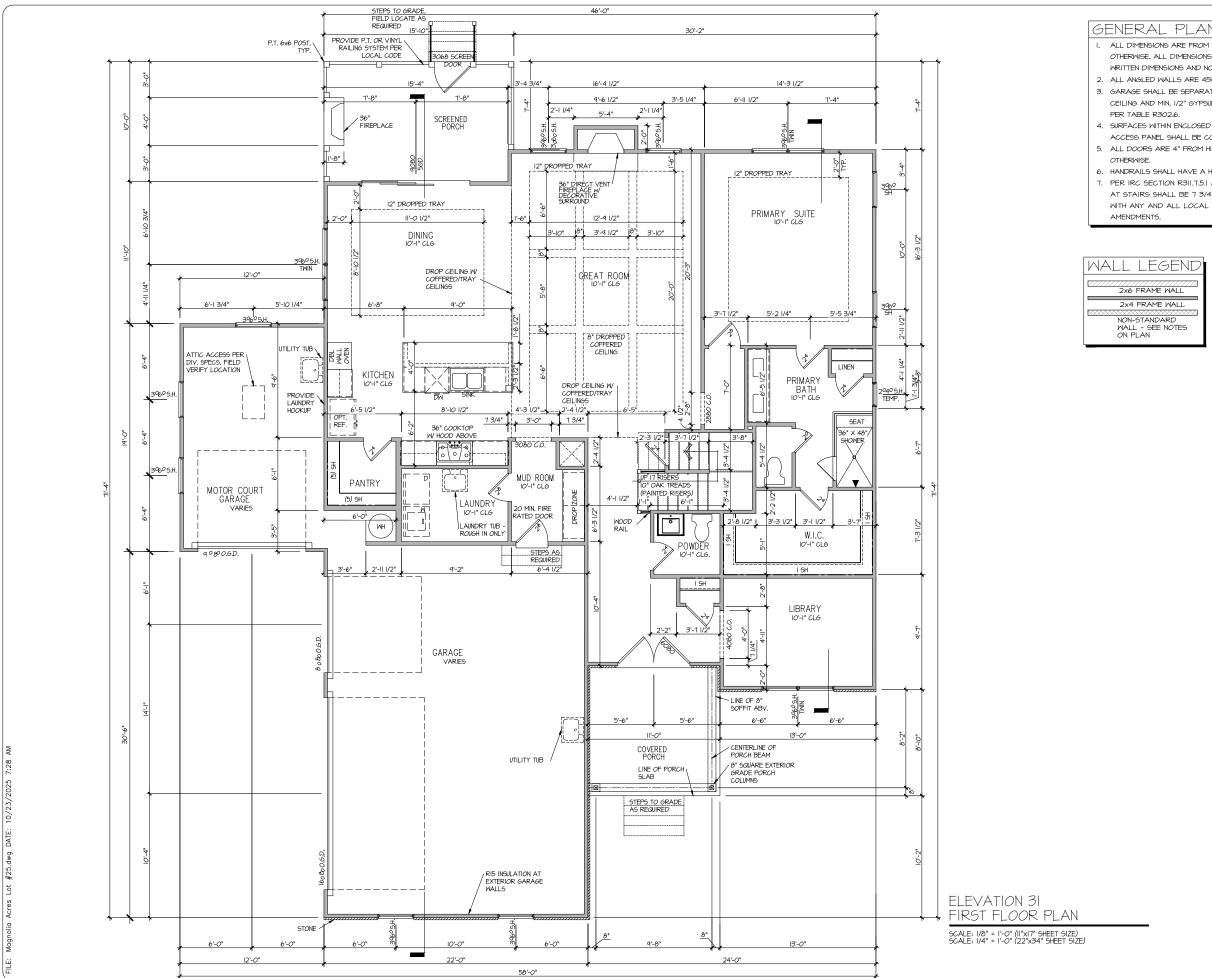


HOUSE NAME:
ROANOKE V2.0 - LOT #25

DRAWING TITLE
CRAWL SPACE FOUNDATION
PLAN, ELEV. 31

SHEET No.

A2.1.31



GENERAL PLAN NOTES

- ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD UNLESS NOTED OTHERWISE. ALL DIMENSIONS SHALL BE READ OR CALCULATED, NEVER SCALED. WRITTEN DIMENSIONS AND NOTES SHALL GOVERN.
- 2. ALL ANGLED WALLS ARE 45% UNLESS NOTED OTHERWISE.
- 3. GARAGE SHALL BE SEPARATED WITH MIN, 5/8" TYPE X GYPSUM BOARD ON CEILING AND MIN. I/2" GYPSUM BOARD ON WALLS AND SUPPORTING STRUCTURE
- 4. SURFACES WITHIN ENCLOSED SPACE UNDER STAIRS ACCESSED BY A DOOR OR ACCESS PANEL SHALL BE COVERED WITH MIN. 1/2" GYPSUM BOARD.
- 5. ALL DOORS ARE 4" FROM HINGED CORNER OR CENTERED UNLESS NOTED
- 6. HANDRAILS SHALL HAVE A HEIGHT OF 34" 38" ABOVE TREAD NOSING.
- 7. PER IRC SECTION R3II.7.5.I AND SECTION R3II.7.5.2, MAXIMUM RISER HEIGHT AT STAIRS SHALL BE 7 3/4", MINIMUM TREAD DEPTH SHALL BE IO", VERIFY WITH ANY AND ALL LOCAL ORDINANCES, COUNTY AND STATE CODE



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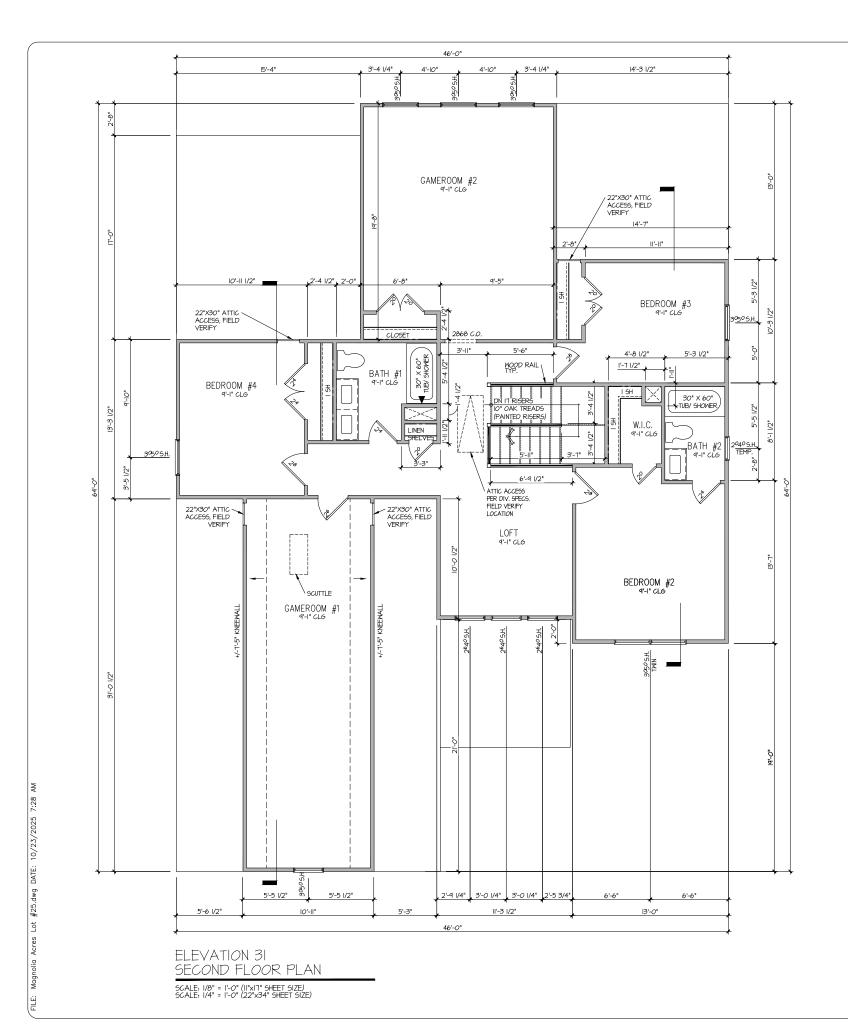


#25 31 $\begin{bmatrix} 0 \end{bmatrix}$ ELE PLANS, \circ Ζ2.

HOUSE NAME: ROANOKE DRAWING TITLE FLOOR

SHEET No.

A3.1.31



GENERAL PLAN NOTES

- ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD UNLESS NOTED OTHERWISE, ALL DIMENSIONS SHALL BE READ OR CALCULATED, NEVER SCALED, WRITTEN DIMENSIONS AND NOTES SHALL GOVERN.
- 2. ALL ANGLED WALLS ARE 45% UNLESS NOTED OTHERWISE.
- 3. GARAGE SHALL BE SEPARATED WITH MIN. 5/8" TYPE X GYPSUM BOARD ON CEILING AND MIN. 1/2" GYPSUM BOARD ON WALLS AND SUPPORTING STRUCTURE PER TABLE R302.6.
- 4. SURFACES WITHIN ENCLOSED SPACE UNDER STAIRS ACCESSED BY A DOOR OR ACCESS PANEL SHALL BE COVERED WITH MIN, 1/2" GYPSUM BOARD.
- 5. ALL DOORS ARE 4" FROM HINGED CORNER OR CENTERED UNLESS NOTED OTHERWISE.
- 6. HANDRAILS SHALL HAVE A HEIGHT OF 34" 38" ABOVE TREAD NOSING.
- 7. PER IRC SECTION R3II.7.5.I AND SECTION R3II.7.5.2, MAXIMUM RISER HEIGHT AT STAIRS SHALL BE 7 3/4", MINIMUM TREAD DEPTH SHALL BE 10". VERIFY WITH ANY AND ALL LOCAL ORDINANCES, COUNTY AND STATE CODE





DRAWN BY: DATE: 10.23.25



#25 31 ELEV. $\begin{bmatrix} 0 \end{bmatrix}$ PLANS, V2.0 FLOOR

HOUSE NAME: ROANOKE DRAWING TITLE

SHEET No.

A3.2.31

GENERAL SECTION NOTES CALCULATIONS BY OTHERS FOR ALL STRUCTURAL INFORMATION. BE DETERMINED BY BUILDER.

TRUSS CONFIGURATION SHOWN
DIAGRAMATICALLY ONLY
ACTUAL DESIGN PER TRUSS
MANUFACTURER, SEE TRUSS
SHOP DRAWINGS / LAYOUT.

4" GRAVEL AND 6 MIL. POLY VAPOR BARRIER

DROPPED TRAY

DINING

SCREENED PORCH

| I4" FLOOR SYSTEM W | I4" T&G SUBFLOOR | GLUED AND SCREWED

KITCHEN

CRAWL SPACE

1 1/2" HEEL (8:12 5LOP

BEDROOM #4

LAUNDRY

SEE ENGINEERING FOR FOUNDATION SPECIFICATIONS

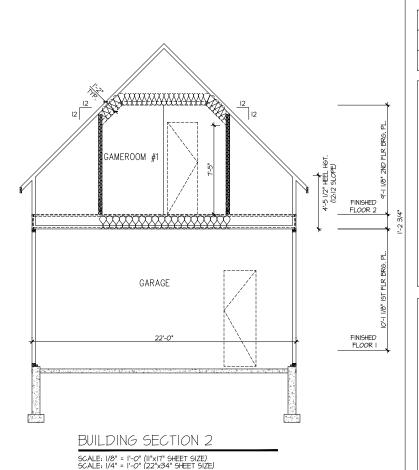
GAMEROOM #1

BUILDING SECTION I SCALE: I/8" = I'-0" (II"xI7" SHEET SIZE) SCALE: I/4" = I'-0" (22"x34" SHEET SIZE)

GARAGE

- BUILDING SECTIONS DEPICT VOLUME SPACES WITHIN THE STRUCTURE. REFER TO STRUCTURAL DRAWINGS, TRUSS DRAWINGS, STRUCTURAL DETAILS AND
- 2. PROVIDE INSULATION PER STATE RESIDENTIAL CODE. COMPLIANCE METHOD TO





3 1/2" HEEL HGT. (3.5:12 SLOPE)

FINISHED FLOOR 2

FINISHED FLOOR I

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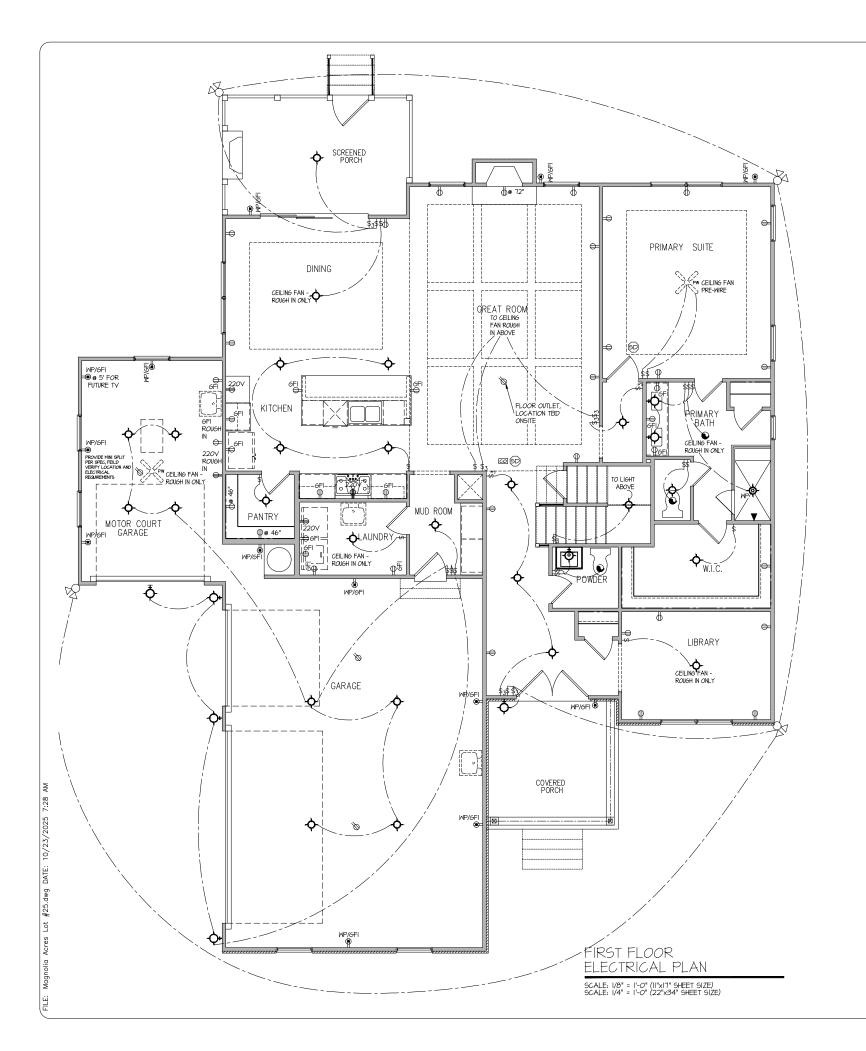
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#25 SECTIONS

V2.0 HOUSE NAME:
ROANOKE V2
DRAWING TITLE
BUILDING S

SHEET No.

A4.1





SINGLE POLE SWITCH

THREE WAY SWITCH

FOUR WAY SMITCH

DUPLEX AFCI RECEPTACLE

DUPLEX AFCI RECEPTACLE - BOTTOM HALF SHITCHED

DUPLEX AFCI RECEPTACLE - FLOOR MOUNTED

220V RECEPTACLE - 220V

GFI - DUPLEX AFCI RECEPTACLE - GFI

WP/GFI = DUPLEX AFCI RECEPTACLE - WATERPROOF GFI

CO DETECTOR

DOOR CHIME

LIGHT FIXTURE - WALL MOUNTED LIGHT FIXTURE - CEILING MOUNTED

0 LIGHT FIXTURE - LED SURFACE MOUNT

PULLCHAIN LAMPHOLDER

KEYLESS LAMPHOLDER

GARAGE DOOR BUTTON

NOTE: ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, THE LOCAL POWER COMPANY AND TO ALL



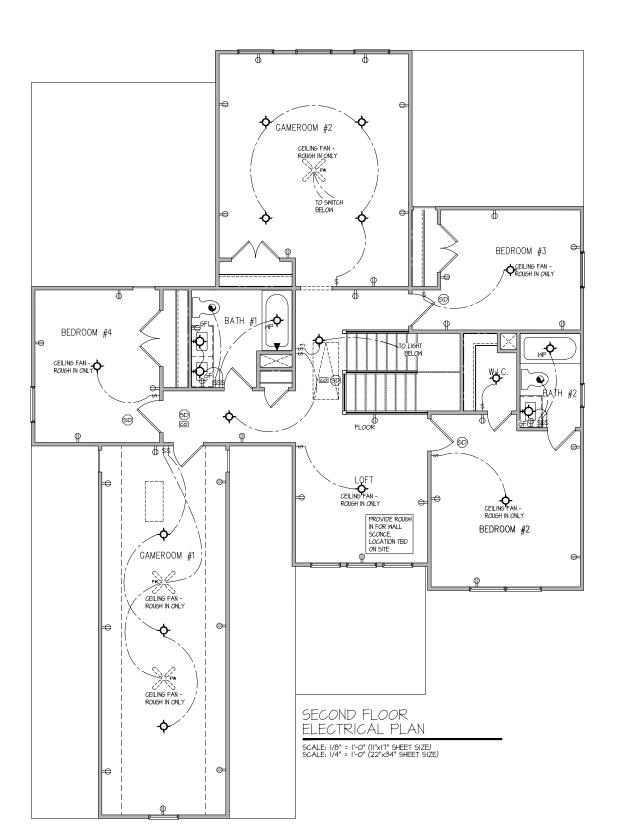
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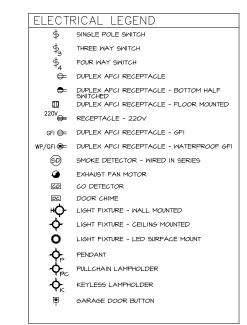


#25 PLANS ELECTRICAL

V2.0 HOUSE NAME: ROANOKE DRAWING TITLE

SHEET No.





NOTE: ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, THE LOCAL POWER COMPANY AND TO ALL APPLICABLE LOCAL REGULATIONS.

KSE GROUP
ARCHITECTURE
ARCHITECTURE
INF. SUITE 201, QUAKERTOWN, PA 189951

DRAWN BY: DATE: 10.23.25



PLANS #25 ELEC. FLOOR

V2.0 HOUSE NAME:
ROANOKE
DRAWING TITLE
SECOND FI

SHEET No.

E1.2



1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951 (215) 804 - 4449 www.kse-eng.com

ROANOKE

VERSION 2.0 MAGNOLIA ACRES LOT 25 RALEIGH, NORTH CAROLINA

THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. THIS COORDINATION IS NOT THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SER). SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS. IT IS THE INTENT OF THE ENGINEER LISTED ON THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO REVIEW ALL OF THE INFORMATION CONTAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ANY PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS.

DESIGN SPECIFICATIONS:

DESIGN BUILDING CODE (REFERRED TO HEREIN AS 'THE BUILDING CODE'):

2024 NORTH CAROLINA RESIDENTIAL CODE

DESIGN LIVE LOADS:

- ROOF = 20 PSF (LOAD DURATION FACTOR=1.25)
- UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)
- HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 30 PSF
- FLOOR = 40 PSF
- FLOOR (SLEEPING AREAS) = 30 PSF
- DECK = 40 PSF
- BALCONY = 40 PSF ■ STAIRS = 40 PSF

DESIGN DEAD LOADS:

- ROOF TRUSS = 17 PSF (TC=7, BC=10)
- FLOOR TRUSS = 15 PSF (TC=10, BC=5)
- FLOOR JOIST = 10 PSF
- STANDARD BRICK = 40 PSF
- QUEEN ANNE BRICK = 25 PSF
- TILE = 10 PSF (WHERE NOTED ON PLANS)

NOTE: STRUCTURAL FRAMING HAS NOT BEEN DESIGNED FOR GRANITE, MARBLE OR OTHER MATERIALS HEAVIER THAN THE ABOVE LOADING UNLESS SPECIFICALLY NOTED ON PLANS..

DESIGN WIND LOADS:

- ULTIMATE WIND SPEED = 120 MPH
- EXPOSURE CATEGORY = B

ASSUMED SOIL BEARING CAPACITY = 2000 PSF

ASSUMED LATERAL SOIL PRESSURE = 60 PCF

FROST DEPTH = 12"

SEISMIC DESIGN CATEGORY = B

ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:

• TJI 210 SERIES (SERIES AND SPACING PER PLANS)

- LSL: E=1,550,000 PSI, $F_B=2,325$ PSI, $F_V=310$ PSI, $F_C=900$ PSI
- LVL: E=2,000,000 PSI, $F_B=2,600$ PSI, $F_V=285$ PSI, $F_C=750$ PSI • PSL: E=2,000,000 PSI, $F_B=2,900$ PSI, $F_V=290$ PSI, $F_C=625$ PSI



Acres L Version Roanoke

Project #: 108-24001
Designed By: AAM

Magnolia

Checked By: KRK Issue Date: 10/30/25

Re-Issue: Scale:

Sheet

Cover



GENERAL STRUCTURAL NOTES:

- 1. THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE STRUCTURAL ENGINEER OF RECORD (SER) FOR THIS PROJECT. THE SER BEARS THE RESPONSIBILITY OF THE PRIMARY STRUCTURAL ELEMENTS AND THE PERFORMANCE OF THIS STRUCTURE NO OTHER PARTY MAY REVISE, ALTER, OR DELETE ANY STRUCTURAL ASPECTS OF THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN CONSENT OF KSE ENGINEERING, P.C. OR THE SER. FOR THE PURPOSES OF THESE CONSTRUCTION DOCUMENTS, THE SER AND KSE ENGINEERING SHALL BE CONSIDERED THE SAME ENTITY.
- THE STRUCTURE IS ONLY STABLE IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION TO STABILIZE THE STRUCTURE.
- 3. THE SER IS NOT RESPONSIBLE FOR CONSTRUCTION SEQUENCES, METHODS, OR TECHNIQUES IN CONNECTION WITH THE CONSTRUCTION OF THIS STRUCTURE. THE SER WILL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT DOCUMENTS, SHOULD ANY NON-CONFORMITIES OCCUR.
- 4. THE SER DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF GEOMETRY. THE SER ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. THE SER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
- 5. ANY STRUCTURAL ELEMENTS OR DETAILS NOT FULLY DEVELOPED ON THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO KSE ENGINEERING FOR REVIEW BEFORE ANY CONSTRUCTION BEGINS. THE SHOP DRAWINGS WILL BE REVIEWED FOR OVERALL COMPLIANCE AS IT RELATES TO THE STRUCTURAL DESIGN OF THIS PROJECT. VERIFICATION OF THE SHOP DRAWINGS FOR DIMENSIONS, OR FOR ACTUAL FIELD CONDITIONS, IS NOT THE RESPONSIBILITY OF THE SER OR KSE ENGINEERING, P.C.
- 6. VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE RESPONSIBILITY OF THE SER. THE CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
- 7. THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL ELEMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
- 8. THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL CODES OR RESTRICTIONS.
- 9. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING UNLESS OTHERWISE NOTED.
- 10. PROVIDE MOISTURE PROTECTION AND FLASHING PER ARCHITECTURAL DETAILS.

- 1. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE BUILDING CODE
- 2. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM THE GEOTECHNICAL ENGINEER ON THE STUDY OF THE PROPOSED SITE TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.
- 6. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN THE BUILDING CODE.
- 4. THE SER HAS NOT PERFORMED A SUBSURFACE INVESTIGATION. VERIFICATION OF THE ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER OR THE CONTRACTOR. SHOULD ANY ADVERSE SOIL CONDITION BE ENCOUNTERED. THE SER MUST BE CONTACTED BEFORE PROCEEDING.
- 5. THE BOTTOM OF ALL FOOTINGS SHALL EXTEND BELOW THE FROST LINE FOR THE REGION IN WHICH THE STRUCTURE IS TO BE CONSTRUCTED, BUT NOT LESS THAN A MINIMUM OF 12" BELOW GRADE. ALL FOOTINGS TO HAVE A MINIMUM PROJECTION OF 2" ON EACH SIDE OF FOUNDATION WALLS. MAXIMUM FOOTING PROJECTION SHALL NOT EXCEED THE THICKNESS OF THE FOOTING.
- 6. WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH 1/2" ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM of 6'-0" o.c. install minimum 2 anchor bolts per section, 12" MASONRY MAXIMUM FROM CORNERS. 1/2" DIAMETER x 8" LONG SIMPSON TITEN HD OR USP SCREW-BOLT+ SCREWS MAY BE SUBSTITUTED ON A 1 FOR 1 BASIS.
- 7. ANY FILL SHALL BE PLACED UNDER THE DIRECTION OR RECOMMENDATION OF A LICENSED PROFESSIONAL ENGINEER. THE RESULTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY.
- 8. EXCAVATIONS OF FOOTINGS SHALL BE LINED TEMPORARILY WITH A 6 MIL POLYETHYLENE MEMBRANE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HOURS OF EXCAVATION.
- 9. NO CONCRETE SHALL BE PLACED AGAINST ANY SUBGRADE CONTAINING WATER, ICE, FROST, OR LOOSE MATERIAL. 10. PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE
- SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS (SEE ARCHITECTURAL PLANS AND DETAILS).
- 11. NONE OF THE FOUNDATION DESIGNS IN THESE DOCUMENTS ARE SUITABLE FOR INSTALLATION IN SHRINK/SWELL CONDITIONS. REFER TO GEOTECHNICAL ENGINEER FOR APPROPRIATE DESIGN.
- 12. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST TEN FEET.
- 13. CRAWL SPACE TO BE GRADED LEVEL AND CLEAR OF ALL DEBRIS. 14. PROVIDE MINIMUM 6 MIL APPROVED VAPOR BARRIER. ALL JOINTS TO BE LAPPED MINIMUM 12" AND SEALED.

CONCRETE & REINFORCING

- 1. CONCRETE DESIGN BASED ON ACI 318 AND ACI 318.1 OR ACI 332. CONCRETE SHALL HAVE A NORMAL WEIGHT AGGREGATE AND A MINIMUM COMPRESSIVE STRENGTH (f'c) = 3,000 PSI MINIMUM AT 28 DAYS PER CODE (VARIES W/ WEATHER), UNLESS OTHERWISE NOTED ON THE PLAN.
- CONCRETE SHALL BE PROPORTIONED, MIXED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301: "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
- AIR ENTRAINED CONCRETE MUST BE USED FOR ALL STRUCTURAL ELEMENTS EXPOSED TO FREEZE/THAW CYCLES AND DEICING CHEMICALS. AIR ENTRAINMENT AMOUNTS (IN PERCENT) SHALL BE WITHIN -1% TO +2% OF 5% FOR FOOTINGS AND EXTERIOR SLABS
- NO ADMIXTURES SHALL BE ADDED TO ANY STRUCTURAL CONCRETE WITHOUT WRITTEN PERMISSION OF THE SER. WATER ADDED TO CONCRETE ON SITE SHALL NOT EXCEED THAT ALLOWED BY THE MIX
- 5. CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302.1R: "GUIDE FOR CONCRETE SLAB AND SLAB CONSTRUCTION".
- 6. CONTROL OR SAW CUT JOINTS (CUT OR TOOLED) SHALL BE SPACED IN INTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 15'-0" O.C. AND IN EXTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 10'-0" UNLESS OTHERWISE NOTED. CARE SHALL BE TAKEN TO AVOID RE-ENTRANT CORNERS.
- CONTROL OR SAW CUT JOINTS SHALL BE PRODUCED USING CONVENTIONAL CUT OR TOOLED PROCESSES WITHIN 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED.
- 8. ALL WELDED WIRE FABRIC (W.W.F.) FOR CONCRETE SLABS—ON—GRADE SHALL BE PLACED AT MID-DEPTH OF SLAB. THE W.W.F. SHALL BE SECURELY SUPPORTED DURING THE CONCRETE POUR. FIBROUS CONCRETE REINFORCEMENT, OR POLYPROPYLENE FIBERS MAY BE USED IN LIEU OF W.W.F. APPLICATION OF POLYPROPYLENE FIBERS PER CUBIC YARD OF CONCRETE SHALL BE PER MANUFACTURER AND COMPLY WITH ASTM C1116, ANY LOCAL BUILDING CODE REQUIREMENTS AND SHALL MEET OR EXCEED CURRENT INDUSTRY STANDARD.
- POLYPROPYLENE REINFORCING TO BE 100% VIRGIN, CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT.
- 10. STEEL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
- 11. DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315: "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES".
- 12. HORIZONTAL FOOTING AND WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90° BENDS, OR CORNER BARS WITH
- THE SAME SIZE/SPACING AS THE HORIZONTAL REINFORCEMENT. 13. PROVIDE REINFORCEMENT LAP AS NOTED BELOW, UNLESS NOTED OTHERWISE:
- #4 BARS 30" LENGTH #5 BARS - 38" LENGTH #6 BARS - 45" LENGTH
- 14. WHERE REINFORCING DOWELS ARE REQUIRED, THEY SHALL BE EQUIVALENT IN SIZE AND SPACING TO THE VERTICAL REINFORCEMENT. THE DOWEL SHALL EXTEND 48 BAR DIAMETERS VERTICALLY AND 20 BAR DIAMETERS INTO THE FOOTING. SEE KSE FOUNDATION DETAILS.
- 15. WHERE FOOTING BOTTOMS ARE TO BE STEPPED AT SLOPING GRADE CONDITIONS, PROVIDE CONTINUOUS REINFORCING WITH Z BARS (TO MATCH FOOTING REINFORCING) AS REQUIRED.
- 16. BAR SUPPORT ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, EXCEPT THAT REINFORCING SHALL BE CHAIRED ON THE BOTTOM AND/OR THE SIDES ON BOLSTERS SPACED NOT MORE THAN 4 FEET ON CENTER. NO ROCKS, CMU, CLAY TILE, OR BRICK SHALL BE USED TO SUPPORT REINFORCING.
- 17. FOR GRADE SUPPORTED SLABS, SLAB REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS AND ACCESSORIES AS DESCRIBED IN THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS SHALL BE SPACED A MAXIMUM OF 4'-0" O.C. BOTH WAYS IN STRAIGHT LINES ON THE MESH GRID.

- 1. ALL MASONRY SHALL CONFORM TO ASTM C-90, F'm=1500 PSI. ALL BRICK SHALL CONFORM TO ASTM C-216, F'm=1500 PSI. ALL MORTAR SHALL BE TYPE 'S' (TYPE 'M' BELOW GRADE) AND CONFORM TO ASTM C-270. COARSE GROUT SHALL CONFORM TO ASTM C-476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,000
- 2. ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530/ASCE 5/TMS 402 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1/ ASCE 6/TMS 602.
- THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED HOLLOW PIERS TIMES THEIR LEAST DIMENSION.
- 4. EACH CRAWL SPACE PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING AND EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS. PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- 5. TOP COURSE OF MASONRY SHALL BE GROUTED SOLID.
- 6. HORIZONTAL WALL JOINT REINFORCEMENT SHALL BE STANDARD 9 GAGE GALVANIZED LADDER OR TRUSS TYPE SPACED AT 16" O.C., UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- SPLICED WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT WITHIN THE 6". LAP WITH STANDARD 'T' AND 'L' SHAPED PIECES AT INTERSECTIONS AND CORNERS.

WOOD FRAMING

- 1. SOLID SAWN WOOD FRAMING MEMBERS SHALL CONFORM TO THE SPECIFICATIONS LISTED IN THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION": (NDS). UNLESS OTHERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGNED TO
- SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING MINIMUM DESIGN
- $E=1,400,000 \text{ PSI}, F_b=875 \text{ PSI}, F_v=135 \text{ PSI}$ 1.1. FRAMING: SPF #2.
- 1.2. PLATES: SPF #2. 1.3. STUDS: SPF STUD GRADE.
- 2. WALL STUD SPACING, (MAXIMUM 10' NOMINAL PLATE HEIGHT): 1 & 2 STORY EXTERIOR AND INTERIOR BEARING:
 - 2x4 @ 16" O.C. OR 2x6 @ 24" O.C., U.N.O. BOTTOM OF 3 STORIES EXTERIOR AND INTERIOR BEARING: 2x6 @ 16" O.C., U.N.O.

INTERIOR NON-BEARING: 2x @ 24" O.C., U.N.O.

- 3. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED SOUTHERN YELLOW PINE #2 OR BETTER.
- 4. ANCHOR SILL PLATES IN ACCORDANCE W/ GENERAL STRUCTURAL NOTES. 5. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY
- BE SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION. 6. NAILS SHALL BE COMMON WIRE NAILS UNLESS OTHERWISE NOTED. 7. BOLT HOLES AND LEAD HOLES FOR LAG SCREWS SHALL BE IN
- ACCORDANCE WITH NDS SPECIFICATIONS. 8. INDIVIDUAL STUDS FORMING A COLUMN SHALL BE ATTACHED WITH (2)
- ROWS 10d NAILS @ 6" O.C. STAGGERED. THE STUD COLUMN SHALL BE FULLY BLOCKED AT ALL FLOOR LEVELS TO ENSURE PROPER LOAD TRANSFER. WALL SHEATHING SHALL BE NAILED TO EDGE OF EACH STUD.
- 9. FACE NAIL ALL MULTI-PLY BEAMS AND HEADERS WITH (2) ROWS 16d COMMON NAILS @ 16" O.C., STAGGERED, OR PER MANUFACTURER'S SPECIFICATIONS FOR ENGINEERED LUMBER. APPLY NAILING FROM BOTH FACES FOR (3) OR MORE PLIES.
- 10. FASTEN 4-PLY BEAMS WITH (1) $\frac{1}{2}$ " DIAMETER THROUGH BOLT W/ NUTS AND WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, 1½" MINIMUM EDGE DISTANCE. (UNLESS OTHERWISE NOTED)
- 11. ALL BEAMS AND HEADERS SHALL HAVE (1)2x JACK STUD & (1)2x KING STUD UNLESS OTHERWISE NOTED. THE NUMBER OF STUDS INDICATED ON PLANS ARE THE TOTAL NUMBER OF JACK STUDS REQUIRED, UNLESS OTHERWISE NOTED.
- 12. PROVIDE KING STUDS AT EACH END OF HEADERS AS NOTED BELOW. (1) STUD UP TO 6' OPENING (2) STUDS UP TO 8' OPENING (3) STUDS UP TO 9' OPENING
- 13. ALL BEAMS TO BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED WITH A MINIMUM OF TWO STUDS, UNLESS OTHERWISE NOTED. ALL BEAM SPLICES SHALL OCCUR OVER SUPPORTS.
- 14. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
- 15. ALL LUMBER SPECIFIED ON DRAWINGS IS INTENDED FOR DRY USE ONLY (MOISTURE CONTENT <19%) UNLESS OTHERWISE NOTED 16. ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE THE
- RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS. 17. ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIAMETER SHALL HAVE STUD
- PROTECTION SHIELDS. ALL HOLES OVER 1" IN DIAMETER FOR PLUMBING LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HSS2 OR USP STS1 STUD SHOES, TYPICAL, UNLESS OTHERWISE NOTED. 18. BEARING WALLS SHALL BE SHEATHED ON NOT LESS THAN ONE SIDE
- WITH OSB OR GYPSUM BOARD. BRIDGING SHALL BE INSTALLED NOT GREATER THAN 4 FEET APART MEASURED VERTICALLY FROM EITHER END OF THE STUD IN LIEU OF SHEATHING.
- 19. DIAGONAL BRACING SHALL BE INSTALLED AT EACH END OF BASEMENT BEARING WALLS AND NOT MORE THAN 20' ON CENTER.

EXTERIOR WOOD FRAMED DECKS:

- DECKS ARE TO BE FRAMED IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND AS REFERENCED ON THE STRUCTURAL PLANS, EITHER THROUGH CODE REFERENCES OR CONSTRUCTION DETAILS. 2. PRESERVATIVE TREATED WOOD FRAMING TO BE SOUTHERN YELLOW PINE #2 OR BETTER.
- 3. GUARD RAILS REQUIRED AT DECKS. DESIGN BY OTHERS TO MEET MINIMUM CODE REQUIREMENTS.
- 4. PROVIDE DECK LATERAL LOAD AND BRACING CONNECTIONS PER BUILDING

RAFTER FRAMED ROOF CONSTRUCTION:

- PROVIDE 2x4x4'-0" RAFTER TIES AT 48" O.C. MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR 2. RAFTERS SHALL BE SUPPORTED BY PURLINS AND PURLIN BRACES AS SHOWN ON THE PLAN. PURLIN BRACES SHALL NOT BEAR ON ANY CEILING JOIST, STRONGBACK OR HEADER UNLESS SPECIFICALLY
 - SHOWN ON PLAN. RAFTERS MAY BE SPLICED AT PURLIN LOCATIONS. 3. CEILING JOISTS SHALL HAVE LATERAL SUPPORT W/ 1x4 FLAT BRACING ON TOP EDGE OF JOIST AT LOOSE JOIST ENDS (WHERE JOISTS NOT FASTENED TO RAFTERS) OR FULL DEPTH BLOCKING.
 - FASTEN END OF BRACING TO RAFTER OR GABLE END FRAMING. 4. FASTEN RAFTER AND CEILING JOIST WITH (6) 12d NAILS UNLESS OTHERWISE NOTED.
 - 5. PROVIDE VERTICAL 2x6 STRONGBACKS AT CEILING JOISTS @ 8'-0" O.C. TIE STRONGBACK ENDS TO GABLE STUDS OR RAFTERS WHERE POSSIBLE. PROVIDE BLOCKING BETWEEN TOP PLATES AND STRONGBACKS. PROVIDE 2x4 FLAT FASTENED TO EACH JOIST WITH (2) 12d NAILS. FASTEN STRONGBACK TO 2x4 FLAT WITH 12d NAILS @ 12" O.C. AND FASTENED TO EACH JOIST WITH (1) 12d TOENAIL.

WOOD TRUSSES (FLOOR & ROOF)

- 1. THE WOOD TRUSS MANUFACTURER/FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF THE WOOD TRUSSES. SUBMIT SEALED SHOP DRAWINGS AND SUPPORTING CALCULATIONS TO THE SER FOR REVIEW PRIOR TO FABRICATION. THE SER SHALL HAVE A MINIMUM OF (5) DAYS FOR REVIEW. THE REVIEW BY THE SER SHALL BE FOR OVERALL COMPLIANCE OF THE DESIGN DOCUMENTS. THE SER SHALL ASSUME NO RESPONSIBILITY FOR THE CORRECTNESS OF THE STRUCTURAL DESIGN FOR THE WOOD TRUSSES.
- 2. THE WOOD TRUSSES SHALL BE DESIGNED FOR ALL REQUIRED LOADINGS AS SPECIFIED IN THE LOCAL BUILDING CODE, THE ASCE STANDARD "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES." (ASCE 7), AND THE LOADING REQUIREMENTS SHOWN ON THESE SPECIFICATIONS. THE TRUSS DRAWINGS SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION DOCUMENTS AND PROVISIONS PROVIDED FOR LOADS SHOWN ON THESE DRAWINGS INCLUDING BUT NOT LIMITED TO HVAC EQUIPMENT, PIPING, AND ARCHITECTURAL FIXTURES ATTACHED TO THE TRUSSES.
- 3. THE TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/TPI 1: "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION".
- 4. THE TRUSS MANUFACTURER SHALL PROVIDE ADEQUATE BRACING INFORMATION IN ACCORDANCE WITH "BUILDING COMPONENT SAFETY INFORMATION GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" (BCSI). THIS BRACING, BOTH TEMPORARY AND PERMANENT, SHALL BE SHOWN ON THE SHOP DRAWINGS. ALSO, THE SHOP DRAWINGS SHALL SHOW THE REQUIRED ATTACHMENTS FOR THE TRUSSES
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING TEMPORARY BRACING AND SHORING FOR THE FLOOR AND ROOF TRUSSES AS REQUIRED DURING CONSTRUCTION. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE LATEST BCSI. THE CONTRACTOR SHALL KEEP A COPY OF THE BCSI SUMMARY SHEETS ON SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PERMANENT TRUSS BRACING SHOWN IN THE STRUCTURAL DRAWINGS AND IN THE TRUSS DESIGNS. ALL CONTINUOUS LATERAL BRACING OF WEBS REQUIRES BRACES. REFER TO BCSI SUMMARY SHEET B3 FOR TYPES OF DIAGONAL BRACES TO PROVIDE AT EACH CONTINUOUS LATERAL BRACE LINE. SUCH DIAGONAL BRACES SHALL NOT BE SPACED MORE THAN 20 FEET O.C. DIAGONAL BRACES SHALL BE FASTENED TO EACH TRUSS WEB WITH A MINIMUM OF TWO 10d FACE NAILS. WHERE CONTINUOUS LATERAL BRACING CANNOT BE INSTALLED, DUE TO A MINIMUM OF THREE ADJACENT TRUSSES NOT BEING IDENTICAL, THE CONTRACTOR SHALL COORDINATE WITH THE TRUSS SPECIALTY ENGINEER/MANUFACTURER TO DETERMINE WHAT TYPE OF ALTERNATE BRACE (I.E., T OR L BRACE, ETC.) IS REQUIRED.
- 7. ANY CHORDS OR TRUSS WEBS SHOWN ON THESE DRAWINGS HAVE BEEN SHOWN AS A REFERENCE ONLY. THE FINAL DESIGN OF THE TRUSSES SHALL BE PER THE MANUFACTURER.
- 8. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN ON THE SEALED STRUCTURAL DRAWINGS. TRUSS PROFILES TO BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS.
- 9. TRUSS MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTORS FOR ALL TRUSSES
- 10. PROVIDE SIMPSON H2.5A, USP RT7 OR EQUIVALENT AT EACH TRUSS TO TOP PLATE CONNECTION, UNLESS OTHERWISE NOTED.

WOOD STRUCTURAL PANELS:

- 1. FABRICATION AND PLACEMENT OF STRUCTURAL WOOD SHEATHING SHALL BE IN ACCORDANCE WITH THE APA DESIGN/CONSTRUCTION GUIDE "RESIDENTIAL AND COMMERCIAL," AND ALL OTHER APPLICABLE APA STANDARDS.
- 2. ALL REQUIRED WOOD SHEATHING SHALL BEAR THE MARK OF THE APA.
- 3. WOOD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION. EXTERIOR WALLS TO BE FULLY SHEATHED USING $\frac{7}{16}$ " OSB OR PLYWOOD MINIMUM. AT BRACED WALL PANELS, PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS OR PLATES.
- ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ROOF SHEATHING SHALL BE CONTINUOUS OVER TWO SUPPORTS MINIMUM AND ATTACHED TO ITS SUPPORTING ROOF FRAMING WITH 8d NAILS AT 6" O.C. AT PANEL EDGES AND AT 6" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED WITH THE LONG DIRECTION PERPENDICULAR TO FRAMING. SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING. PROVIDE SUITABLE EDGE SUPPORT BY USE OF PLYWOOD CLIPS OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING. ROOF SHEATHING TO BE $\frac{7}{16}$ " OSB MINIMUM.
- WOOD FLOOR SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ATTACH SHEATHING TO ITS SUPPORTING FRAMING WITH (1) 10d NAIL AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED PERPENDICULAR TO FRAMING. SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING. PROVIDE SUITABLE EDGE SUPPORT BY USE OF T&G PLYWOOD OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING.
- 6. SHEATHING SHALL HAVE A 1/8" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE APA.

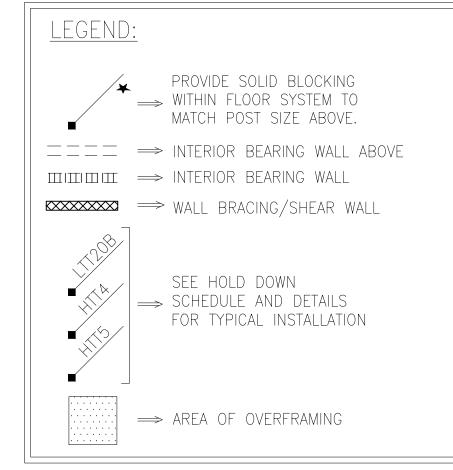
STRUCTURAL FIBERBOARD PANELS:

- STRUCTURAL FIBERBOARD SHEATHING SHALL ONLY BE USED WHERE
- SPECIFICALLY NOTED ON THE STRUCTURAL PLANS. 2. FABRICATION AND PLACEMENT OF STRUCTURAL FIBERBOARD SHEATHING SHALL BE IN ACCORDANCE WITH THE APPLICABLE AFA
- 3. FIBERBOARD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION.
- 4. SHEATHING SHALL HAVE A 1/8" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE AFA.

STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS
- 2. ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS (F_v) OF 50 KSI UNLESS OTHERWISE NOTED.
- 3. WELDING SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWA D1.1. ELECTRODES FOR SHOP AND FIELDING WELDING SHALL BE CLASS E70XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS
- 4. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3½" AND FULL FLANGE WIDTH UNLESS OTHERWISE NOTED. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR (2) 1/2" x 4" LAG SCREWS UNLESS OTHERWISE NOTED.
- INSTALL 2x WOOD PLATE ON TOP OF STEEL BEAMS, RIPPED TO MATCH BEAM WIDTH. FASTEN PLATE TO BEAM W/ HILTI X-DNI 52 P8 PINS AT 12" O.C. STAGGERED OR ½" DIAMETER BOLTS AT 24"

- 1. ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG-TIE
- OR APPROVED EQUIVALENT. 2. ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 153, G-185.
- 3. MANY OF THE NEW PRESSURE TREATED WOODS USE CHEMICALS THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPE OF WOOD TREATMENT AND SELECT APPROPRIATE CONNECTORS THAT WILL RESIST THE APPLICABLE CORROSIVE CHEMICALS.



SPAN	LINTEL SIZE	END BEARING
UP TO 3'-0"	3½"×3½"×¼"	4"
UP TO 6'-3"	5"x3½"x5⁄ ₁₆ " L.L.V.	8"
UP TO 9'-6"	6"x3½"x5∕ ₁₆ " L.L.V.	12"

|| SPANS OVER 4'-0" SHALL BE SHORED UP UNTIL CURED.|







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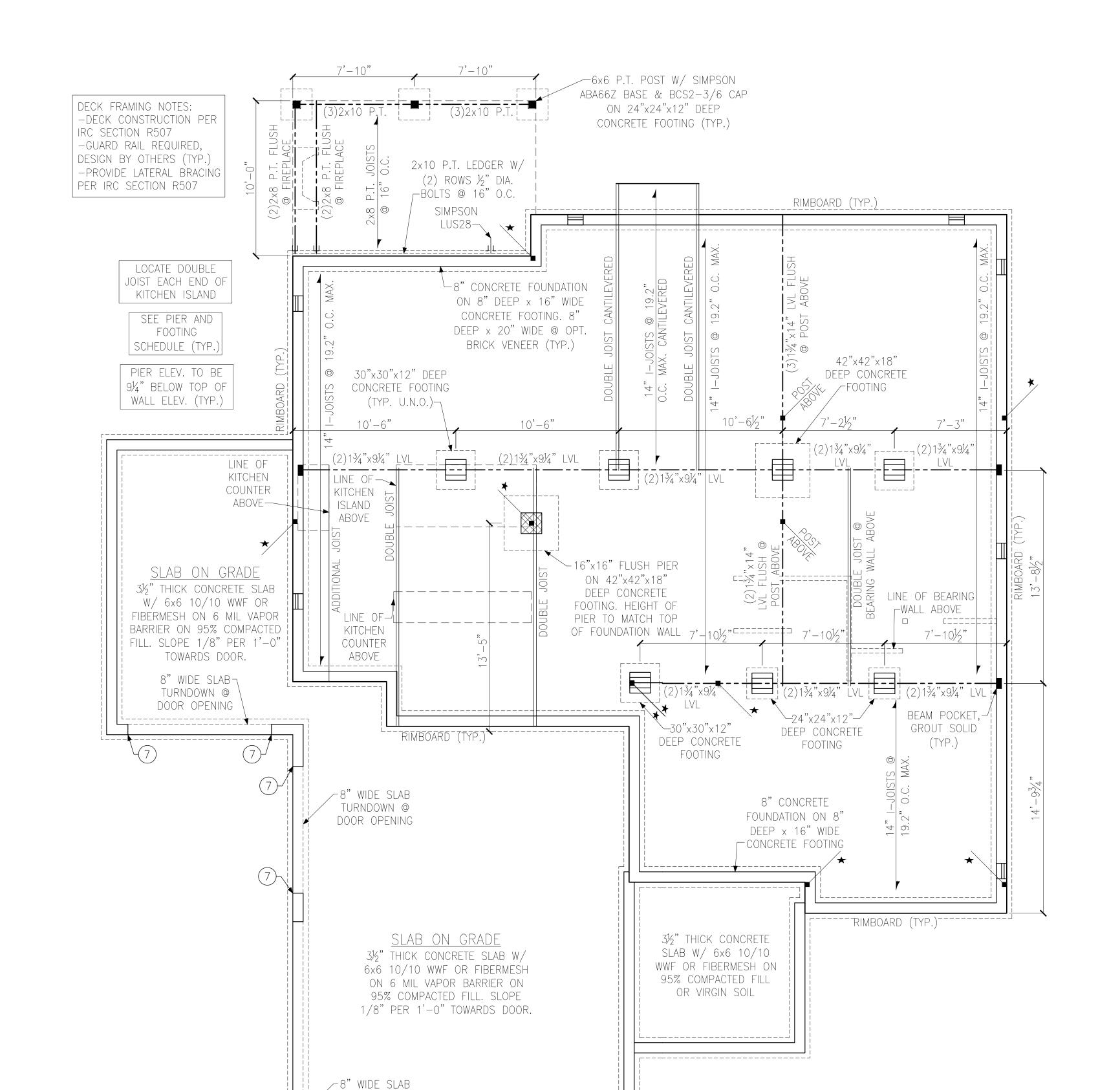
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108-20000 Designed By: KRK

Checked By: Issue Date: 1/1/20 Re-Issue:

Scale: 1/8"=1'-0" @ 11x171/4"=1'-0" @ 22x34





PROVIDE SOLID BLOCKING ⇒ WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.

======= ⇒ BEARING WALL ABOVE 48" WSP

ПШШШІ ⇒ INTERIOR BEARING WALL ⇒ BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING &

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

FLOOR FRAMING TO BE 14" DEEP TJI 210 I-JOISTS @ 19.2" O.C. MAXIMUM OR EQUAL

<u>KEYNOTES:</u>

(7) REINFORCE 8" CMU WALL AND FOOTING UNDER PORTAL FRAME PER DETAIL B/SD-4.



Crawl Space Magnolia Acre Roanoke Vers 120 M.P.H. Raleigh, Nortk

Plan

Foundation es Lot 25

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arolina

Project #: 108-24001

Designed By: AAM Checked By: KRK Issue Date: 10/30/25

Re-Issue: Scale: 1/8"=1'-0" @ 11x171/4"=1'-0" @ 22x34

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CRAWL SPACE FOUNDATION PLAN

TURNDOWN @

DOOR OPENING



| GINEERING | 201, QUAKERTOWN, PA 18951 | (215) 804-4449

S-





⇒ WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
 ⇒ BEARING WALL ABOVE

SEE KSE STRUCTURAL DETAILS
SET FOR BRACED WALL PANEL
SHEATHING FASTENING &
BLOCKING DETAILS)

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 9' WALL PLATES

FLOOR FRAMING TO BE 14" DEEP TJI 210 SERIES OR EQUAL I-JOISTS @ 19.2" O.C. MAXIMUM OR EQUAL (U.N.O).

KEYNOTES:

4 INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.

5) INSTALL TWO PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.



Second F Magnolia Roanoke 120 M.P.

arolina

Project #: 108-24001 Designed By: AAM

Checked By: KRK
Issue Date: 10/30/25

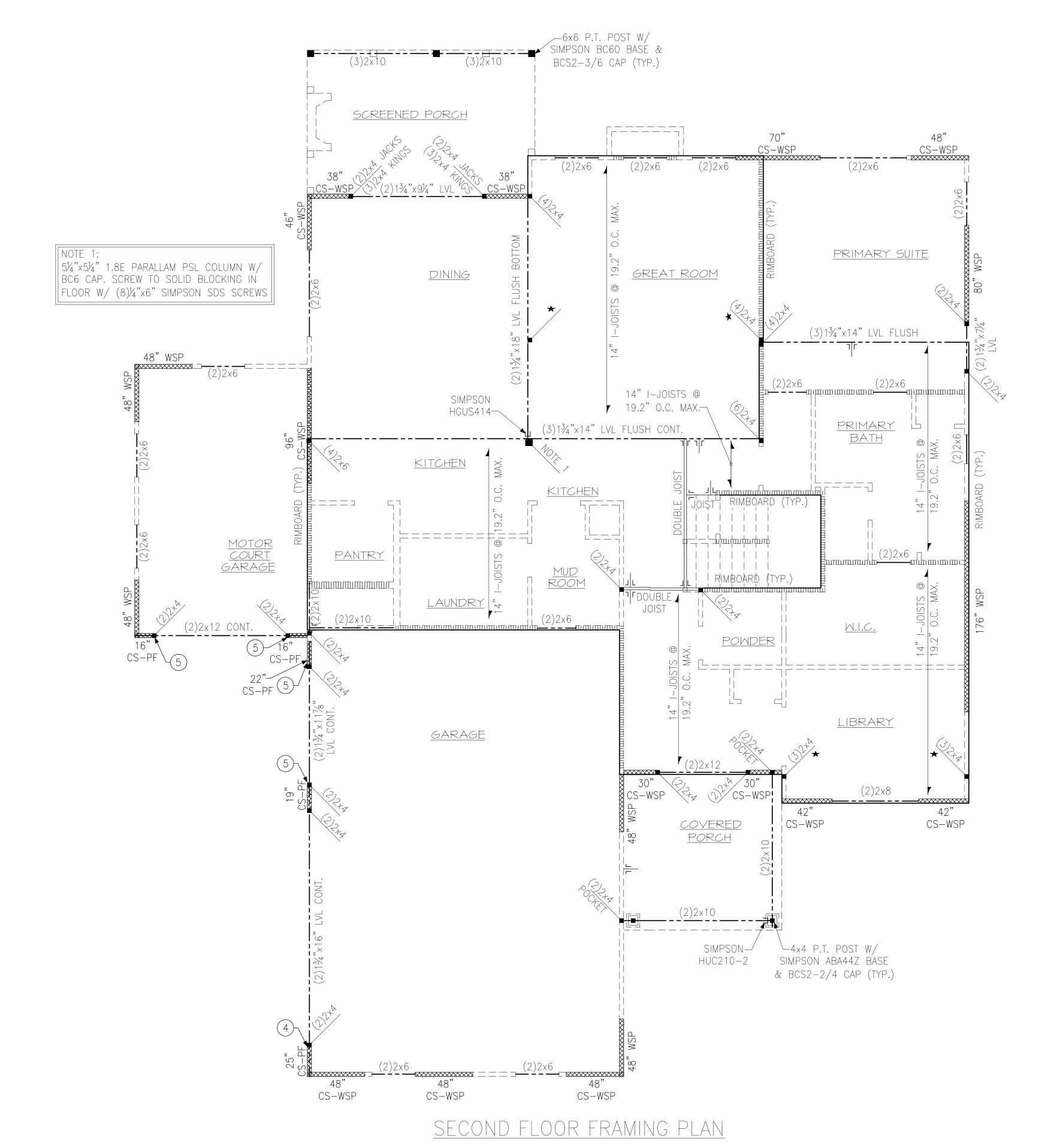
Plan

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Floor

Re-Issue:
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

S-2



ROOF FRAMING PLAN



LEGEND

PROVIDE SOLID BLOCKING

WITHIN FLOOR SYSTEM TO

MATCH POST SIZE ABOVE.

⇒ BRACED WALL PANEL

(SEE KSE STRUCTURAL DETAILS

SET FOR BRACED WALL PANEL

SHEATHING FASTENING &

BLOCKING DETAILS)

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 8' WALL PLATES

KEYNOTES:

10 8'x8' HVAC PLATFORM TRUSSES
DESIGNED TO SUPPORT HVAC UNITS.

(11) VALLEY SET TRUSSES @ 24" O.C. (TYP.) OR 2x6 OVERFRAMING @ 24" O.C. W/ 2x8 RIDGE & VALLEY PLATES



Roof Frak Magnolia Roanoke 120 M.P. Raleigh,

Carolina

Designed By: AAM
Checked By: KRK

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Plan

Framing

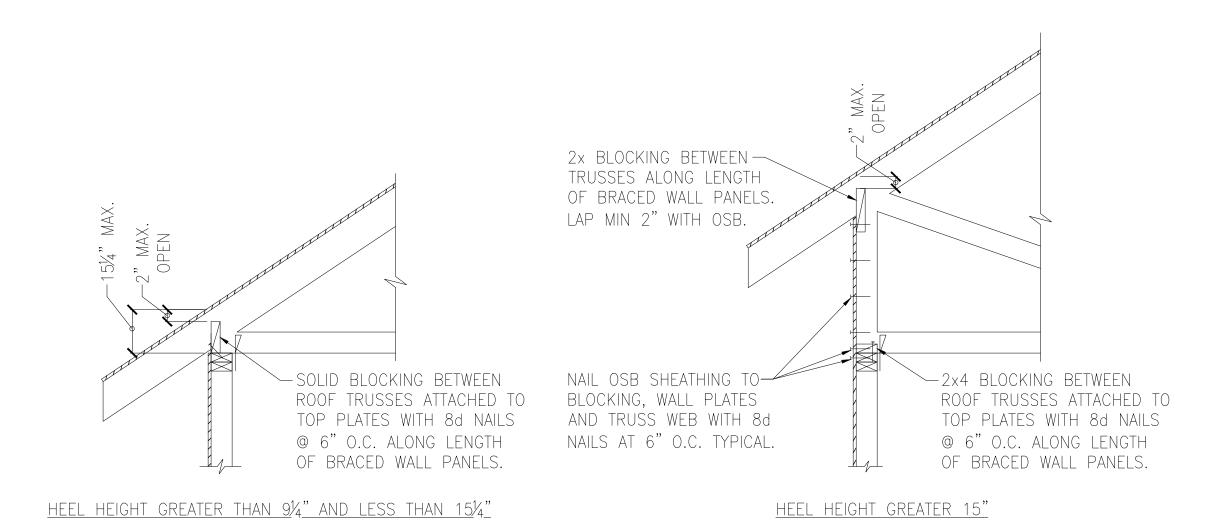
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1/4"=1'-0" @ 22x34

S - 3



(D) TYPICAL EXTERIOR CORNER WALL FRAMING

EXTERIOR

INSIDE CORNER PLAN VIEW

SHEATHING -

GYPSUM BOARD —

16d NAIL

EXTERIOR

SHEATHING

@ 12° O.C.

__ 8d NAIL @ 6" O.C.

AT ALL OTHER

MEMBERS

∕_16d NAIL

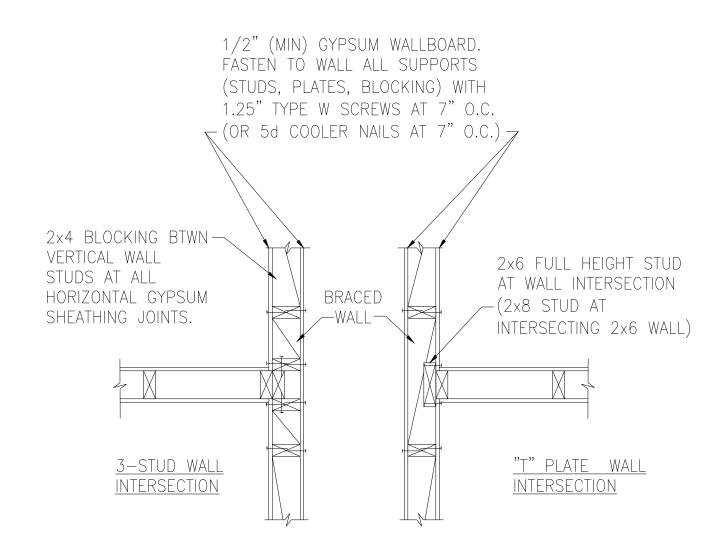
OUTSIDE CORNER PLAN VIEW

@ 12" O.C.

─GYPSUM BOARD

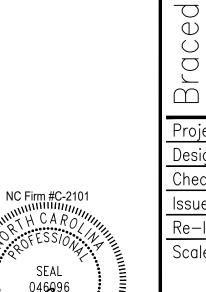
AT ALL EDGES AND 12" O.C. TYPICAL

ROOF TRUSS BEARING/BLOCKING AT BRACED WALL PANELS ONLY REQUIRED AT BRACED WALL PANELS



BRACED WALL INTERSECTIONS MAY
BE FRAMED USING EITHER THE
3-STUD OR THE T-PLATE METHOD.

METHOD GB(1) AND GB(2) INTERSECTION DETAILS



CARUSO HOMES

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Wall Details

North

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Re-Issue:

Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

SD-1









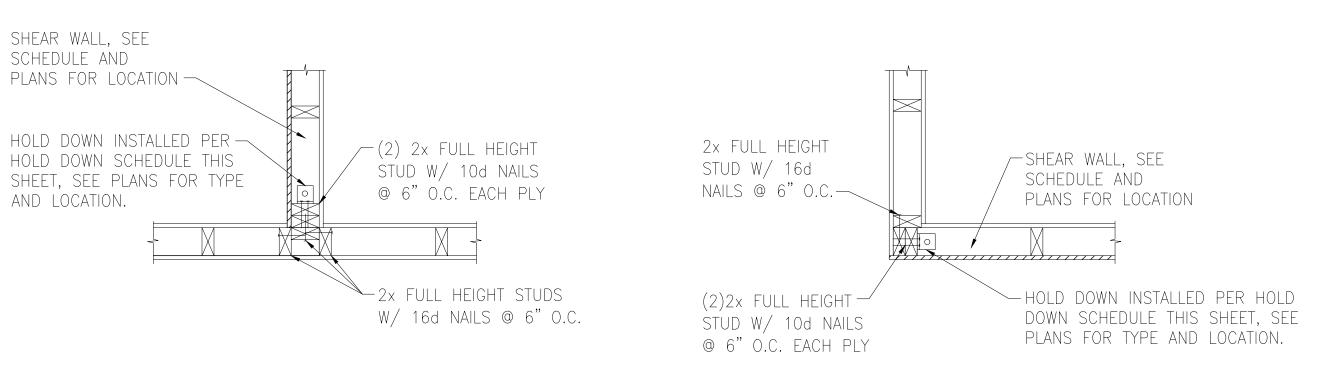
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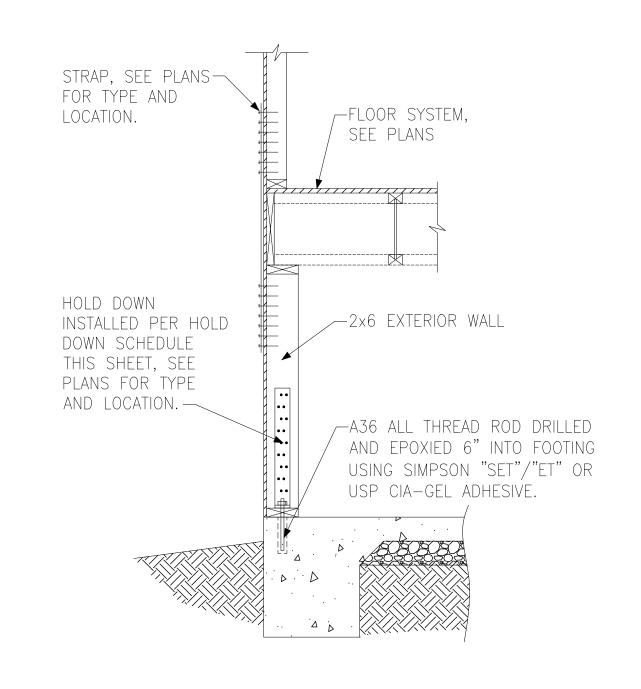
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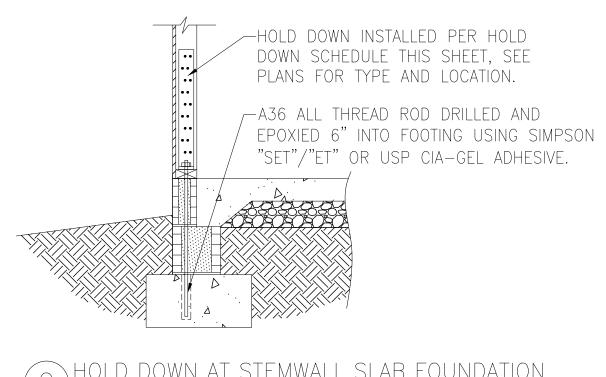
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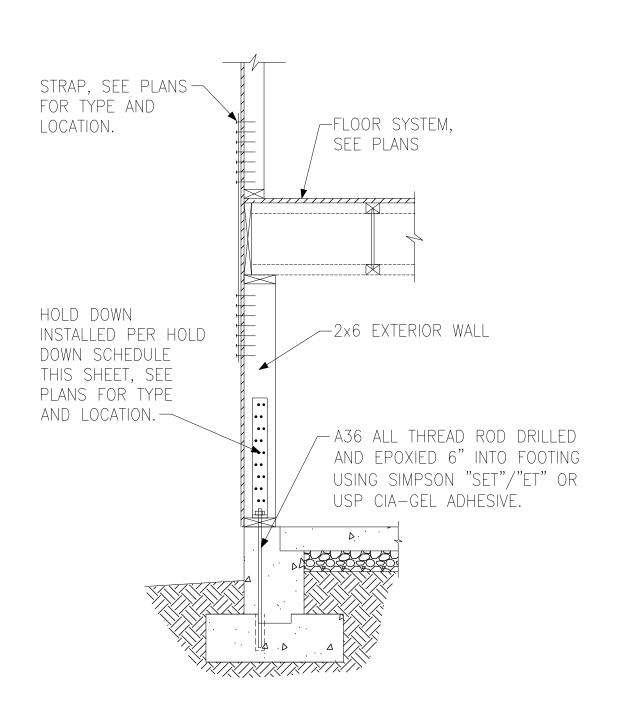
B TYPICAL HOLD DOWN DETAIL



F HOLD DOWN AT BASEMENT FOUNDATION MONOLITHIC TURN-DOWN



HOLD DOWN AT STEMWALL SLAB FOUNDATION



G HOLD DOWN AT BASEMENT FOUNDATION STEM WALL

HOLD DOWN SCHEDULE				
HOLD DOWN SIMPSON USP		ALL THREAD ROD	FASTENERS	
LTT20B	LTS20B	½" DIA.	(10)10d NAILS	
HTT4	HTT16	%" DIA.	(18)16dx2½" LONG NAILS	
HTT5	HTT45	5∕8" DIA.	(26)16dx2½" LONG NAILS	

-HOLD DOWN INSTALLED PER HOLD

PLANS FOR TYPE AND LOCATION.

D HOLD DOWN AT MONOLITHIC SLAB FOUNDATION

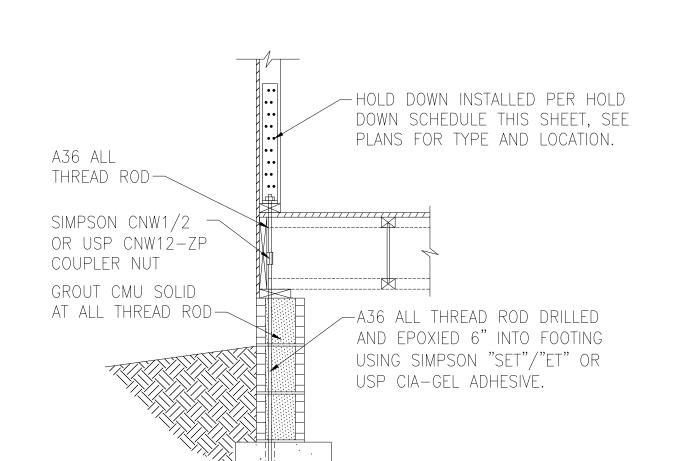
DOWN SCHEDULE THIS SHEET, SEE

_A36 ALL THREAD ROD DRILLED AND

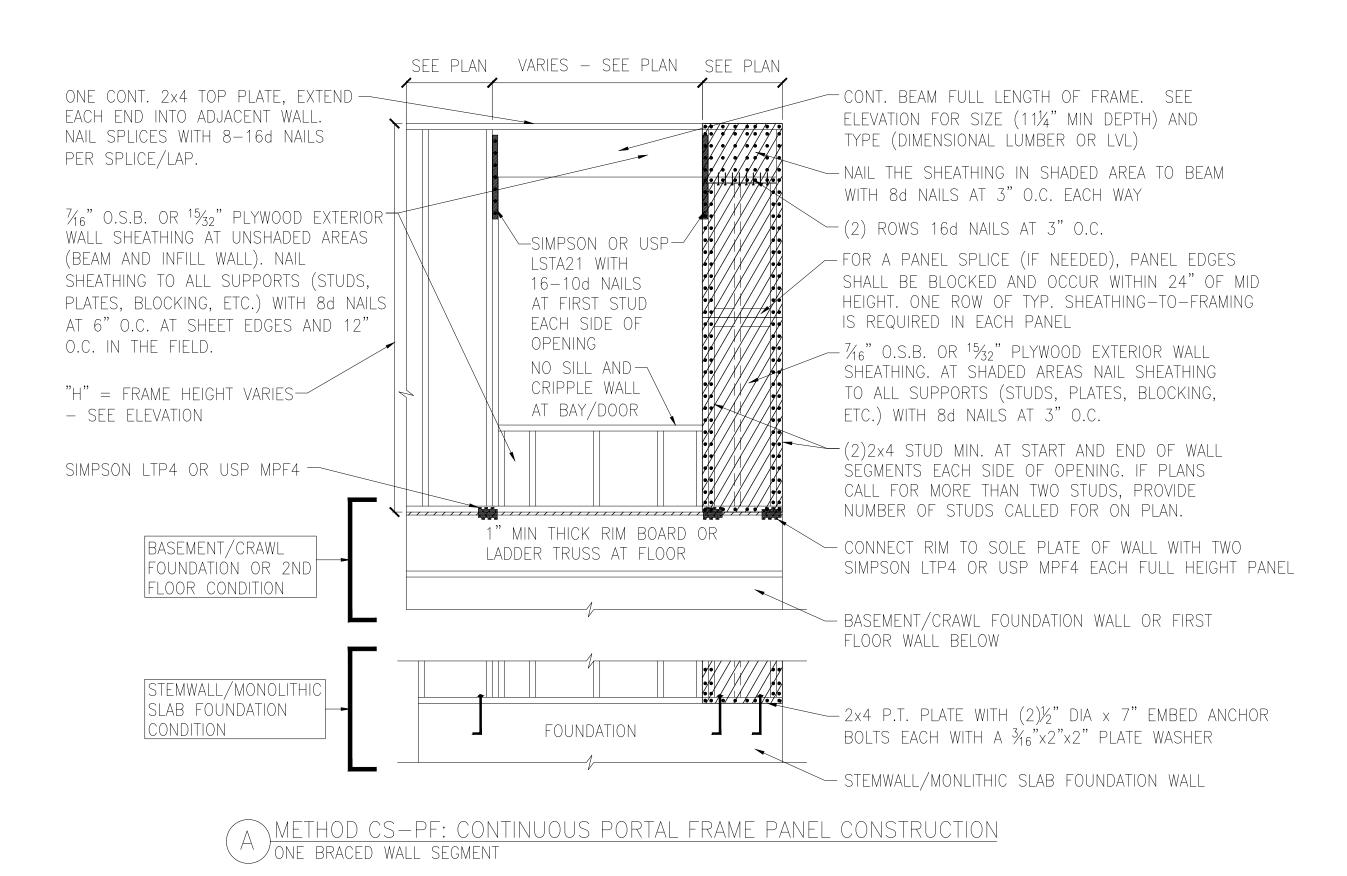
EPOXIED 6" INTO FOOTING USING SIMPSON

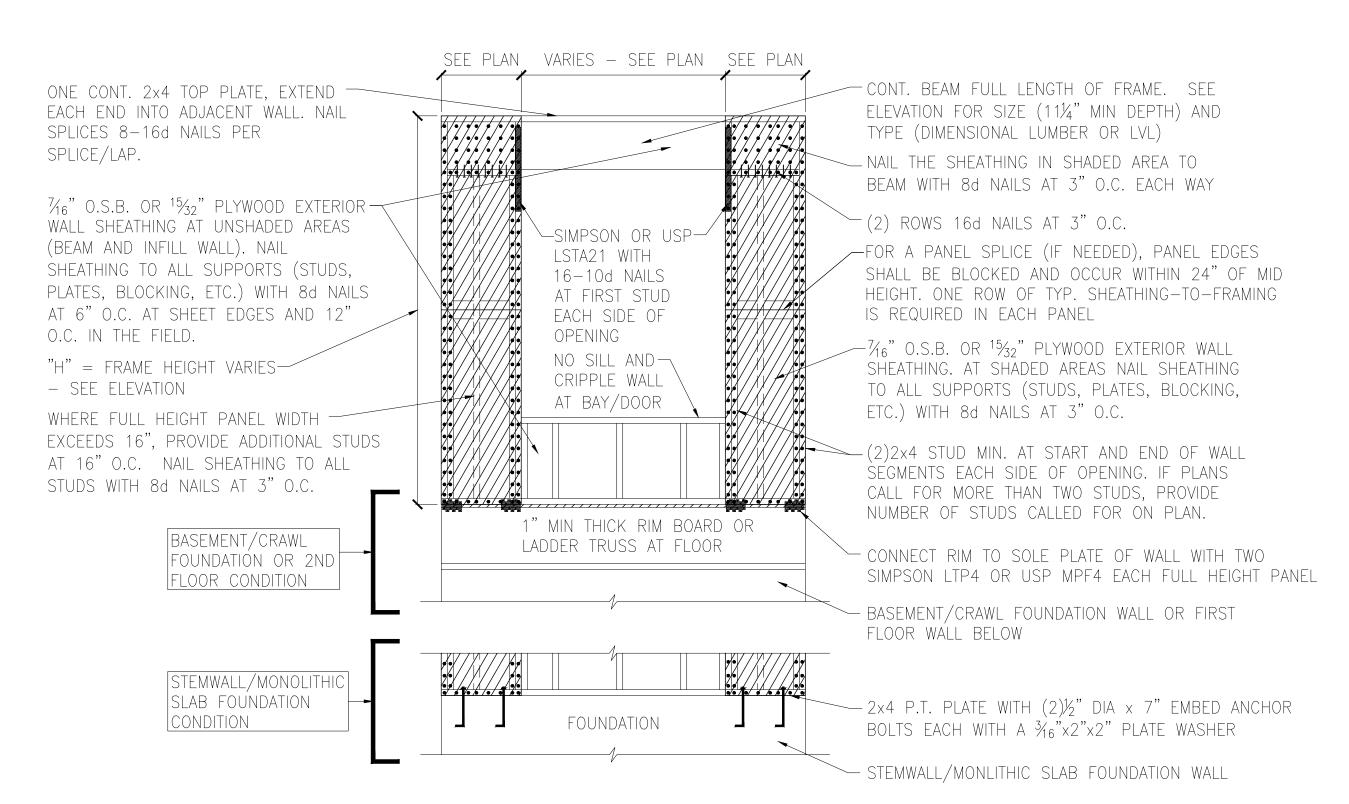
"SET"/"ET" OR USP CIA-GEL ADHESIVE.





(E)HOLD DOWN AT CRAWL SPACE FOUNDATION



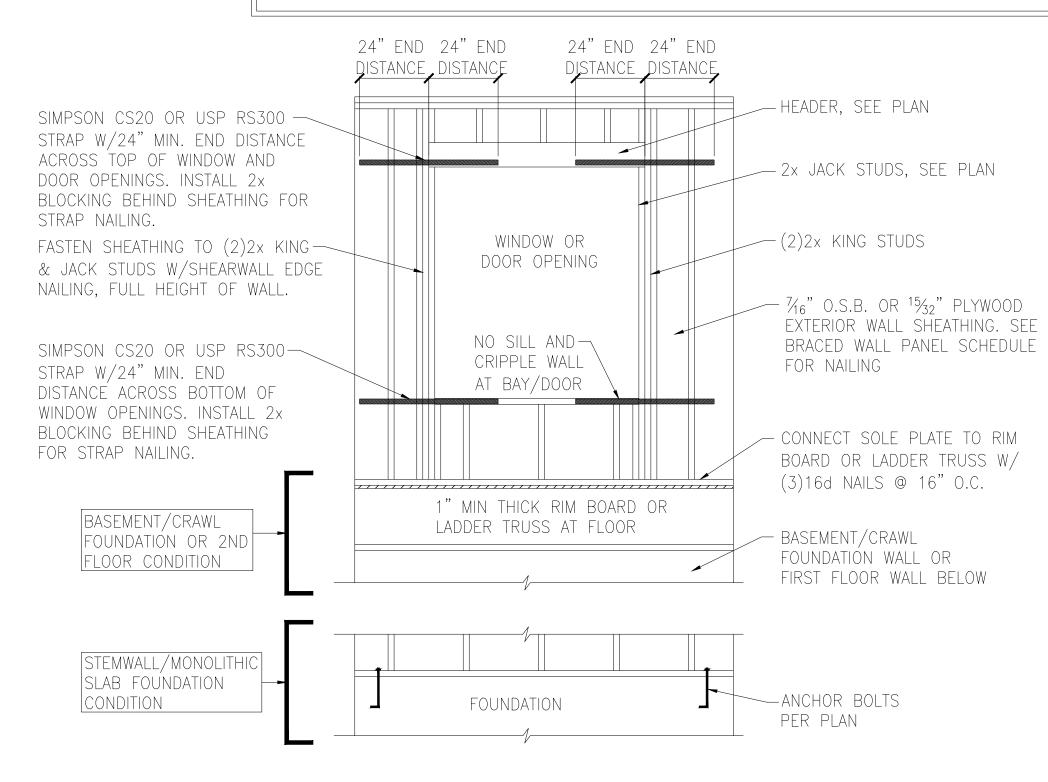


METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION B) TWO BRACED WALL SEGMENTS

	BRACED WALL PANEL AND ENGINEERED SHEAR WALL SCHEDULE				
PANEL TYPES	PANEL TYPE	MATERIAL	FASTENERS		
WSP	INTERMITTENT WOOD STRUCTURAL PANEL	7/16" OSB	6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. (6" O.C. AT INTERIOR WALL LOCATIONS) AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS		
GB(1)	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.		
GB(1)-4	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 4" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.		
GB(2)	INTERMITTENT GYPSUM BOARD (SHEATHING BOTH FACES OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.		
CS-WSP	CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL	7/16"OSB	6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. (6" O.C. AT INTERIOR WALL LOCATIONS) AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS		
CS-PF	CONTINUOUS SHEATHED PORTAL FRAME	7/16" OSB	NAILING PER DETAIL		
PFH	PORTAL FRAME WITH HOLD DOWNS	7/16" OSB	NAILING PER DETAIL		
CS-ESW(1)	ENGINEERED SHEAR WALL, TYPE 1	7/16" OSB	8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS		
CS-ESW(2)	ENGINEERED SHEAR WALL, TYPE 2	7/16" OSB	8D COMMON NAILS AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS		
CS-ESW(3)	ENGINEERED SHEAR WALL, TYPE 3	7/16" OSB	8D COMMON NAILS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS		

BRACED WALL PANEL NOTES:

- 1. ALL BRACED WALL PANELS, EXCEPT GB(1) & GB(2), SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES.
- 2. PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.
- 3. SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH $\frac{1}{6}$ " O.S.B., OR $\frac{1}{3}$ 2" PLYWOOD, FASTENED PER IRC. AT EXTERIOR CORNERS, SHEATHING SHALL BE FASTENED PER KSE BRACED WALL DETAILS. AT INTERIOR WALL INTERSECTIONS, FASTEN STUDS & WALL BRACING PER KSE BRACED WALL DETAILS.
- BRACED WALL PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER IRC. PANEL LENGTHS SHOWN ON PLANS ARE THE MINIMUM LENGTH REQUIRED.



WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL ONLY REQUIRED WHERE SPECIFED ON PLANS





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MONOLITHIC SLAB OR BASEMENT FOUNDATION





Details Fram

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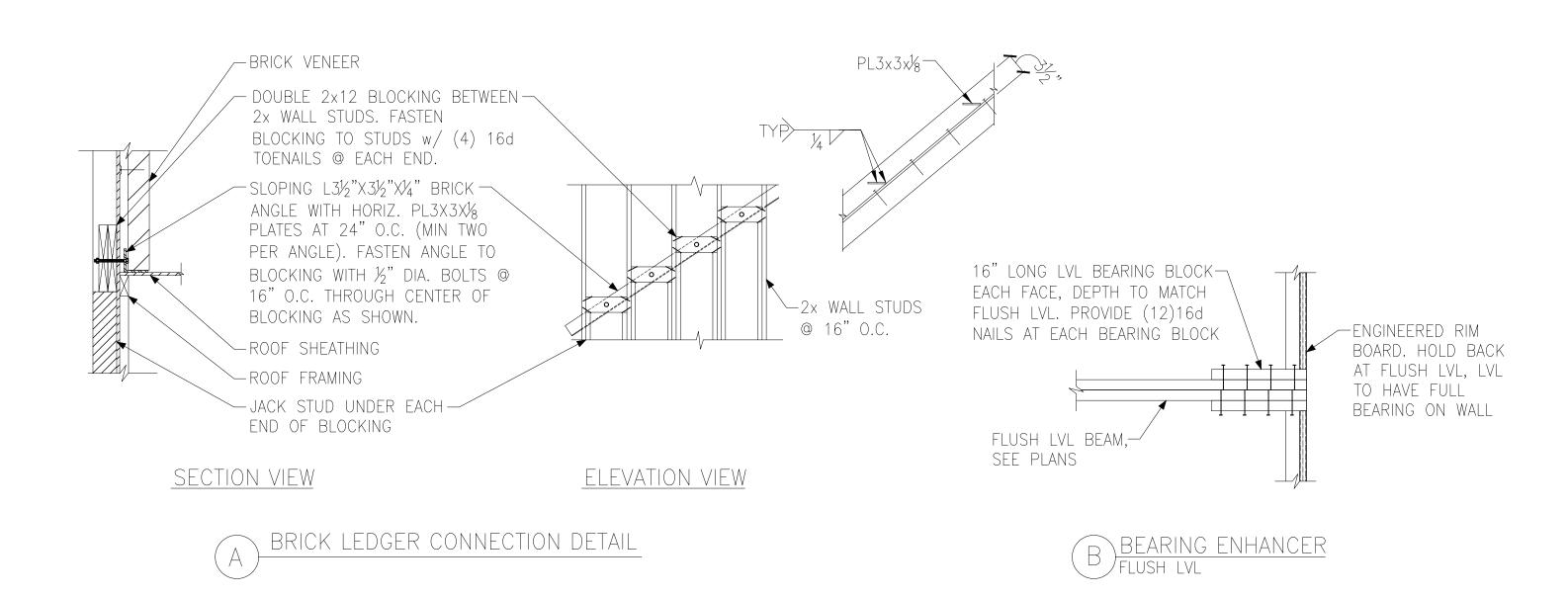
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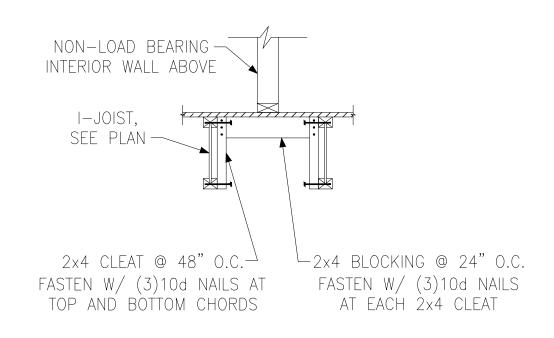
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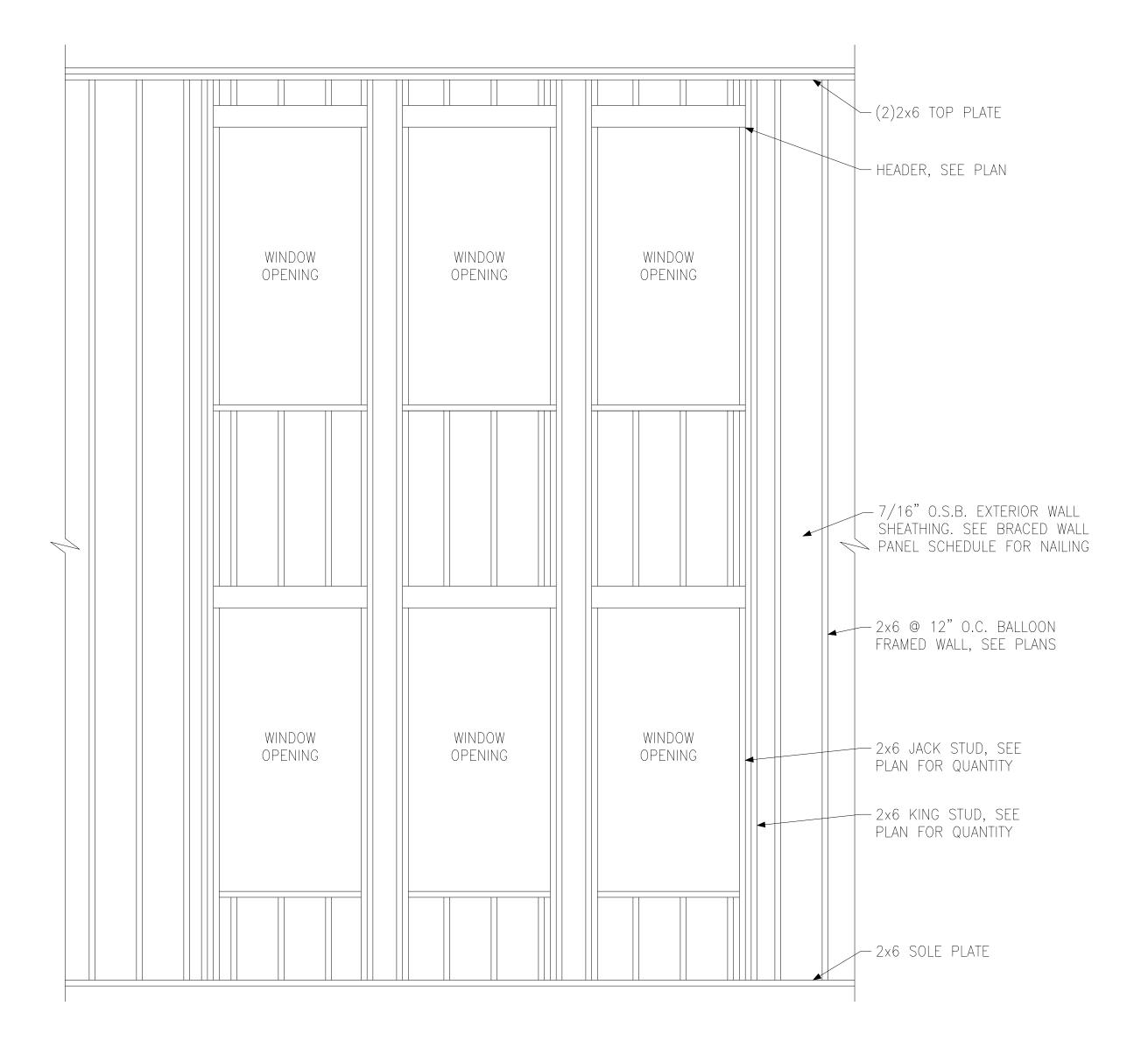
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I-JOIST LADDER BLOCKING
AS REQUIRED @ PARALLEL WALLS



BALLOON FRAMED WALL DETAIL N.T.S.



Details Framing Miscellaneous

120 M.P.H. Charlotte,

Project #: 108-20000

Designed By: KRK

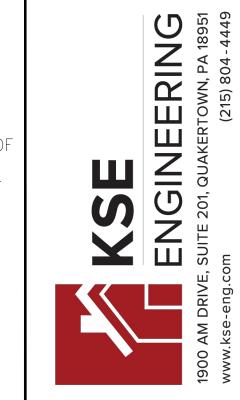
Checked By:

Issue Date: 1/1/20
Re-Issue:
Scale: 1/8"=1'-0" @ 11x17
1/4"=1'-0" @ 22x34

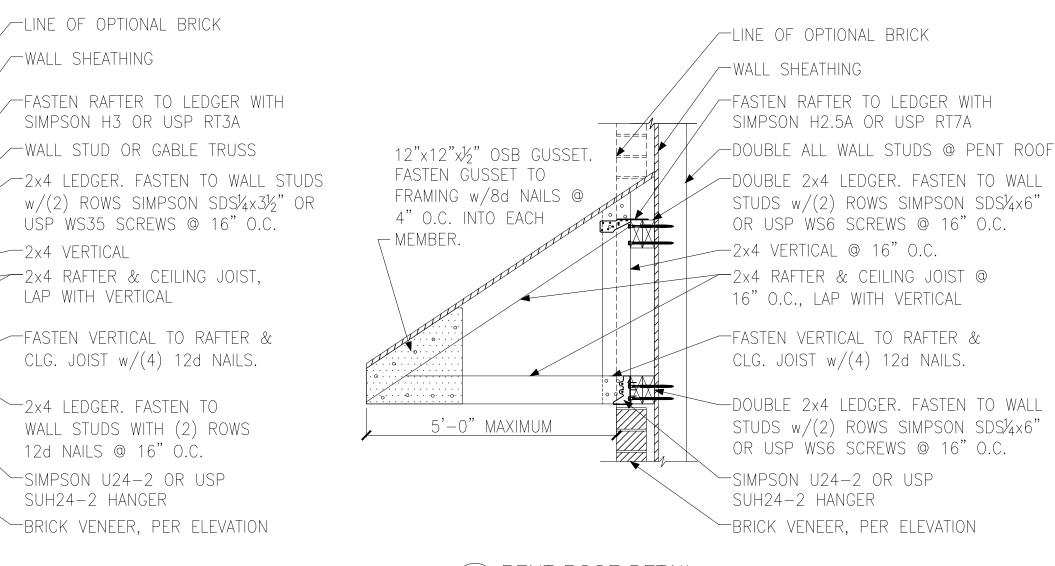
Carolina

North

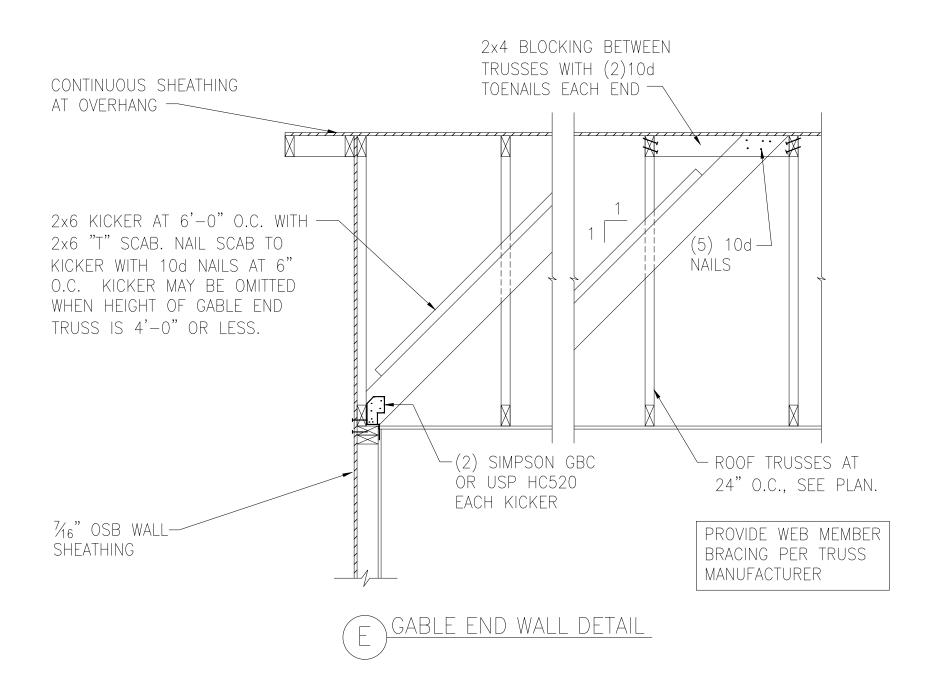
| GINEERING | 201, QUAKERTOWN, PA 18951 | (215) 804-4449







B PENT ROOF DETAIL /STRAIGHT ROOF 5'-0" MAXIMUM SPAN



LINE OF OPTIONAL BRICK

FASTEN RAFTER TO LEDGER WITH

w/(2) ROWS SIMPSON SDS $\frac{1}{4}$ \times 3 $\frac{1}{2}$ " OR

SIMPSON H3 OR USP RT3A

WALL STUD OR GABLE TRUSS

2x4 RAFTER & CEILING JOIST,

-2x4 LEDGER. FASTEN TO

12d NAILS @ 16" O.C.

SUH24-2 HANGER

-SIMPSON U24-2 OR USP

LAP WITH VERTICAL

USP WS35 SCREWS @ 16" O.C.

FASTEN VERTICAL TO RAFTER &

CLG. JOIST w/(4) 12d NAILS.

WALL STUDS WITH (2) ROWS

-BRICK VENEER, PER ELEVATION

-WALL SHEATHING

-2x4 VERTICAL

12"x12"x½" OSB GUSSET.

FRAMING w/8d NAILS @

2'-6" MAXIMUM

B PENT ROOF DETAIL STRAIGHT ROOF

FASTEN GUSSET TO

4" O.C. INTO EACH

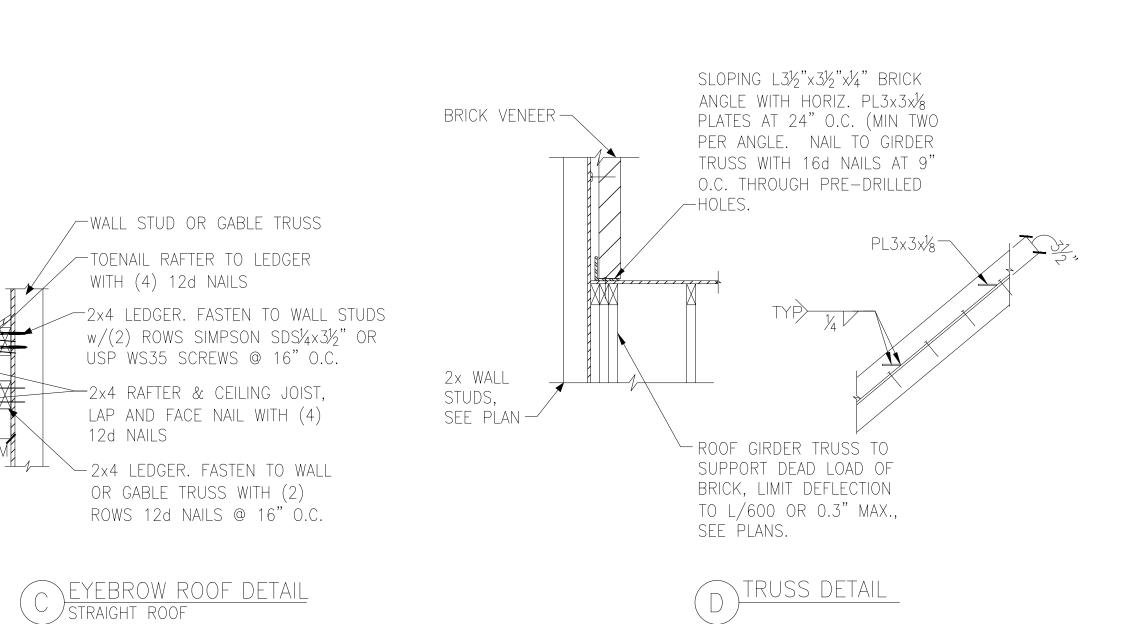
← MEMBER.

∕2×4 LEDGER. FASTEN TO

WALL STUDS w/(2) ROWS

SIMPSON SDS1/4×31/2" OR USP

WS35 SCREWS @ 16" O.C.



2×12 RAFTER @ 24"

O.C. WITH CURVED

RAFTER -

PROFILE CUT INTO

INTO EACH MEMBER.

OSB GUSSET, CUT TO MATCH-

ROOF PROFILE FASTEN GUSSET TO FRAMING w/8d NAILS @ 4" O.C.

2x4 VERTICAL

CURVED ROOF

LINE OF OPTIONAL BRICK

FASTEN RAFTER TO LEDGER WITH

2x4 LEDGER. FASTEN TO WALL STUDS

w/(2) ROWS SIMPSON SDS $\frac{1}{4}$ \times 3 $\frac{1}{2}$ " OR

USP WS35 SCREWS @ 16" O.C.

FASTEN VERTICAL TO RAFTER &

CLG. JOIST w/(4) 12d NAILS.

WALL STUDS WITH (2) ROWS

-BRICK VENEER, PER ELEVATION

SIMPSON H3 OR USP RT3A

WALL STUD OR GABLE TRUSS

─2x4 CEILING JOIST @ 24"

O.C., LAP WITH VERTICAL

─2×4 LEDGER. FASTEN TO

12d NAILS @ 16" O.C.

USP SUH24-2 HANGER

-SIMPSON U24-2 OR

-WALL SHEATHING

-2x4 VERTICAL

OSB GUSSET, CUT TO MATCH

INTO EACH MEMBER. —

2x12 RAFTER @24"

O.C. WITH CURVED

PROFILE CUT INTO

RAFTER —

ROOF PROFILE FASTEN GUSSET TO FRAMING w/8d NAILS @ 4" O.C.

2'-6" MAXIMUM

12" MAXIMUM

(A) CURVED ROOF

12d NAILS

NC Firm #C-2101

Miscellaneous 20 Tha \leftarrow \bigcirc 108-20000 Designed By: KRK Checked By:

Details

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arolina

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North

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Issue Date: 1/1/20 Re-Issue: Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

FOUNDATION SECTION

VENEER

EXTERIOR GARAGE WALL @ MASONRY

VENEER TIES SHALL BE

SPACED NOT MORE THAN

24" O.C. HORIZONTALLY

AND VERTICALLY AND

SHALL SUPPORT NOT

MASONRY VENEER-

EXTERIOR GRADE —

12" MINIMUM -

BELOW GRADE

NOTES.

MORE THAN 2 SQUARE

FEET OF WALL AREA

INSTALL 1/2" DIA. ANCHOR

BOLTS, SEE FOUNDATION

∠2x STUD WALL W/

-FLOOR JOIST,

-8" CMU WALL TOP

- CONCRETE FOOTING,

—2x STUD WALL W/ P.T.

COURSE GROUTED SOLID

GROUP 1 CLASSIFIED SOIL

PLATE, SEE PLAN.

-8" CMU WALL TOP

-4" GRAVEL FILL OR

-COMPACTED SOIL

2x8 PT BEARING BLOCK,

FULL LENGTH OF PIER

- CONCRETE FOOTING,

SEE PLAN.

-CONCRETE FOOTING, SEE PLAN.

SEE PLAN.

COURSE GROUTED SOLID

SEE PLAN

11111/1111111

FOUNDATION SECTION

STEP VARIES

FOUNDATION SECTION

FLOOR JOIST, SEE PLAN

L JEXTERIOR GARAGE WALL

JEXTERIOR WALL

P.T. PLATE —

NOTES.

INSTALL ½" DIA. ANCHOR-

BOLTS, SEE FOUNDATION

INSTALL ½" DIA. ANCHOR -

BOLTS, SEE FOUNDATION

EXTERIOR GRADE -

12" MINIMUM -

BELOW GRADE

GIRDER PER-

CMU PIER GROUTED

SOLID, SEE SCHEDULE

FOR SIZE AND HEIGHT

PLAN

LIMITS

NOTES.

EXTERIOR GRADE —

12" MINIMUM -

BELOW GRADE

PLATE, SEE PLAN.

- ENGINEERED RIM BOARD

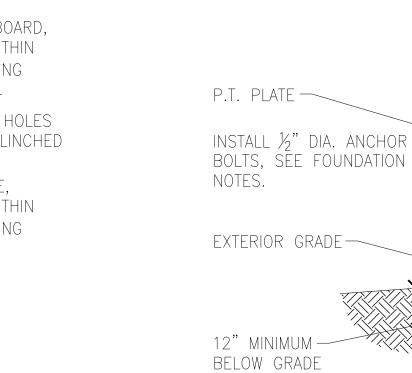
- CONCRETE FOOTING, SEE PLAN. 12" MINIMUM -BELOW GRADE FOUNDATION SECTION EXTERIOR WALL W/ CRIPPLE WALL

FOUNDATION SECTION

GARAGE DOOR







ENGINEERED RIM BOARD, DO NOT SPLICE WITHIN 6" OF VENT OPENING FACE MOUNT JOIST HANGER, FILL ALL HOLES WITH 10d NAILS CLINCHED / 2x P.T. SILL PLATE, DO NOT SPLICE WITHIN

∕2× STUD WALL W/

PLATE, SEE PLAN.

-8" CMU WALL, TOP

-12" CMU GROUTED

—CONCRETE FOOTING,

—2× STUD WALL W/ P.T.

COURSE GROUTED SOLID

GROUP 1 CLASSIFIED SOIL

PLATE, SEE PLAN.

-8" CMU WALL TOP

—4" GRAVEL FILL OR

-12" CMU GROUTED

-CONCRETE FOOTING,

SOLID @ BRICK

SEE PLAN.

—COMPACTED SOIL

STEP VARIES

SEE PLAN.

SOLID @ BRICK

COURSE GROUTED SOLID

-FLOOR JOIST,

≯P.T. PLATE

SEE PLAN

. ♥

FOUNDATION SECTION

EXTERIOR WALL @ MASONRY

VENEER

VENEER TIES SHALL BE

AND VERTICALLY AND

SHALL SUPPORT NOT MORE THAN 2 SQUARE

FEET OF WALL AREA

MASONRY VENEER-

EXTERIOR GRADE -

12" MINIMUM -

BELOW GRADE

16" VENT-

OPENING

NOTES.

INSTALL ½" DIA. ANCHOR —

BOLTS, SEE FOUNDATION

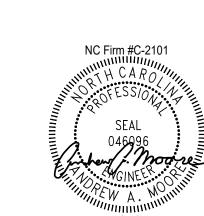
SPACED NOT MORE THAN 24" O.C. HORIZONTALLY

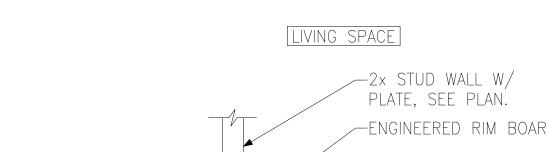
-ENGINEERED RIM BOARD

6" OF VENT OPENING

BOLTS, SEE FOUNDATION NOTES. EXTERIOR GRADE -

NC Firm #C-2101





FOUNDATION SECTION

VENEER

/exterior wall at porch w/ masonry

—2x STUD WALL W/

PLATE, SEE PLAN.

INSTALL ½" DIA. ANCHOR

12" CMU GROUTED

-CONCRETE FOOTING,

SOLID @ BRICK

SEE PLAN.

BOLTS, SEE FOUNDATION

FLOOR JOIST,

NOTES.

-P.T. PLATE

SEE PLAN

-ENGINEERED RIM BOARD

VENEER TIES SHALL BE

VERTICALLY AND SHALL

MASONRY VENEER -

TURN DOWN PORCH -

SLAB TO BELOW TOP

OF FOUNDATION WALL

SPACED NOT MORE THAN

24" O.C. HORIZONTALLY AND

SUPPORT NOT MORE THAN 2

SQUARE FEET OF WALL AREA-

∕-2× STUD WALL W/

PLATE, SEE PLAN.

INSTALL ½" DIA. ANCHOR

-8" CMU WALL TOP

— CONCRETE FOOTING,

-CONCRETE SLAB POURED

MONOLITHICALLY WITH

FOOTING, SEE PLAN.

-4" GRAVEL FILL

CLASSIFIED SOIL

-COMPACTED SOIL

-MONOLITHIC CONCRETE

- ENGINEERED RIM BOARD

__2x STUD CRIPPLE WALL

W/ PLATE, SEE PLAN.

-8" CMU WALL TOP

COURSE GROUTED SOLID

-FLOOR JOIST,

SEE PLAN

FOOTING, SEE PLAN.

OR GROUP 1

SEE PLAN.

COURSE GROUTED SOLID

SEE ARCHITECTURAL DETAILS FOR WATERPROOFING AT PORCH

SLAB/WOOD FRAMING.

FLOOR JOIST,

NOTES.

-P.T. PLATE

SEE PLAN

D D

FOUNDATION SECTION

JEXTERIOR WALL AT PORCH

TURN DOWN PORCH —

SLAB TO BELOW TOP

OF FOUNDATION WALL

RECESS @

GARAGE DOOR -

2x STUD WALL W/—

PLATE, SEE PLAN.

D

-ENGINEERED RIM BOARD

BOLTS, SEE FOUNDATION

-ENGINEERED RIM BOARD FLOOR JOIST, SEE PLAN INSTALL ½" DIA. ANCHOR P.T. PLATE — BOLTS, SEE FOUNDATION NOTES. GARAGE SPACE -8" CMU WALL TOP COURSE GROUTED SOLID -CONCRETE FOOTING, SEE PLAN.

FOUNDATION SECTION INTERIOR GARAGE WALL

PIER AND FOOTING SCHEDULE PIER HEIGHT PIER SIZE MIN. FOOTING SIZE UP TO 2'-8" 8" x 16" 24" x 24" x 12" U.N.O. UP TO 5'-4" 16" x 16" 24" x 24" x 12" U.N.O. UP TO 8'-0" 16" x 16" 30" x 30" x 12" U.N.O.

PIERS SHALL BE CAPPED WITH 8" OF SOLID MASONRY OR CONCRETE OR TOP COURSE FILLED SOLID WITH CONCRETE/MORTAR.

PIERS OVER 5'-4" SHALL BE BE FILLED SOLIDLY WITH CONCRETE OR TYPE M OR S MORTAR. FOR PIERS OVER 8'-0" CONTACT KSE ENGINEERING FOR PIER AND FOOTING DESIGN.

oundation Space

Details

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North

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KERTOWN, PA 18951
(215) 804 - 4449

108-20000 Designed By:KRK Checked By:

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