### INDEX PLAN 2 TITLE SHEET / COVER SHEET FRONT ELEVATION 'E' TECHNICAL INFORMATION FRONT AND REAR ELEVATION 'E' BASEMENT QUICK VIEW - 'A' ROOF PLAN 'E' QUICK VIEW - 'B' SIDE AND REAR ELEVATIONS 'E' QUICK VIEW - 'C' SIDE BASEMENT ELEVATIONS 'E' MONOLITHIC SLAB PLAN 'E' QUICK VIEW - 'D' QUICK VIEW - 'E' BASEMENT PLAN 'E' QUICK VIEW - 'F' IST FLOOR PLAN 'E' 2ND FLOOR PLAN 'E' FRONT ELEVATION 'A' FRONT ELEVATION 'F' FRONT AND REAR ELEVATION 'A' BASEMENT I.I F FRONT AND REAR ELEVATION 'F' BASEMENT ROOF PLAN 'A' ROOF PLAN 'F' SIDE AND REAR ELEVATIONS 'A' SIDE AND REAR ELEVATIONS 'F' SIDE BASEMENT ELEVATIONS 'A' SIDE BASEMENT ELEVATIONS 'F' MONOLITHIC SLAB PLAN 'A' MONOLITHIC SLAB PLAN 'F' BASEMENT PLAN 'A' BASEMENT PLAN 'F' IST FLOOR PLAN 'A' IST FLOOR PLAN 'F' 2ND FLOOR PLAN 'A' 2ND FLOOR PLAN 'F' FRONT ELEVATION 'B' FRONT AND REAR ELEVATION 'B' BASEMENT 6 BASEMENT UTILITY PLAN ROOF PLAN 'B' IST FLOOR UTILITY PLAN SIDE AND REAR ELEVATIONS 'B' 2ND FLOOR UTILITY PLAN SIDE BASEMENT ELEVATIONS 'B' MONOLITHIC SLAB PLAN 'B' BASEMENT PLAN 'B' MONO. SLAB BUILDING SECTIONS IST FLOOR PLAN 'B' 2ND FLOOR PLAN 'B' BASEMENT BUILDING SECTIONS FRONT ELEVATION 'C' FRONT AND REAR ELEVATION 'C' BASEMENT ARCHITECTURAL SHEETS ROOF PLAN 'C' SIDE AND REAR ELEVATIONS 'C' SIDE BASEMENT ELEVATIONS 'C' MONOLITHIC SLAB PLAN 'C' BASEMENT PLAN 'C' IST FLOOR PLAN 'C' 2ND FLOOR PLAN 'C' FRONT ELEVATION 'D' FRONT AND REAR ELEVATION 'D' BASEMENT ROOF PLAN 'D' 3 D SIDE AND REAR ELEVATIONS 'D' SIDE BASEMENT ELEVATIONS 'D' 4 MS D MONOLITHIC SLAB PLAN 'D' IST FLOOR PLAN 'D' 2ND FLOOR PLAN 'D'

ALL CONSULTANT DRAWINGS ACCOMPANYING THESE DESIGN DRAWINGS HAVE NOT BEEN PREPARED BY OR UNDER THE DIRECTION OF GMD DESIGN GROUP OF GEORGIA, INC. GMD DESIGN GROUP OF GA INC. THEREFORE ASSUMES NO LIABILITY FOR THE COMPLETENESS OR CORRECTNESS OF THESE DRAWINGS THAT ARE PREPARED BY OTHER CONSULTANTS.

# Plan 2 50' SERIES Hartwell

PLAN :	2 SQUARE FOOTAGES
AREA	ELEV 'C'
lst FLOOR	1872 SF
2nd FLOOR	1240 SF
TOTAL LIVING	3II2 SF
GARAGE	454 SF
PORCH	182 SF
COVERED PATIO	96 SF
OPT. BASEMENT	
UNFINISHED SPACE	1789 SF
**BASEMENT AREA IS TA	KEN TO INSIDE OF CONCRETE WALL**

Eagle Creek
Lot 82
358 Delmoor Drive
Fuquay Varina, NC 27526



NO:	DATE:	REVISION:	
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PROFE	PROFESSIONAL SEAL:		

PROJECT TITI

50' Series Hartwell

PROJECT NO: GMD-GA22008.01

TITLE SHEET / COVER SHEET

PRINT DATE:
May 13, 2022

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BUILDING CODE COMPLIANCE /
PROJECT INFORMATION 2018 NCRC

ALL CONSTRUCTION TO COMPLY WITH LOCAL CODES AND ORDINANCES CURRENTLY IN USE WITH THE LOCAL JURISDICTION.

APPLICABLE CODES: FOLLOW ALL APPLICABLE STATE AND LOCAL CODES. 2018 NORTH CAROLINA STATE SUPPLEMENTS AND AMENDMENTS

CONTRACTOR AND BUILDER SHALL REVIEW ENTIRE PLAN TO VERIFY CONFORMANCE WITH ALL CURRENT APPLICABLE CODES IN EFFECT AT TIME OF CONSTRUCTION. BY USING THESE DRAWINGS FOR CONSTRUCTION IT IS UNDERSTOOD THAT CONFORMANCE WITH ALL APPLICABLE CODES IS THE RESPONSIBILITY OF THE BUILDER AND CONTRACTOR.

> REFER TO STRUCTURAL PLANS FOR INFO NOT CALLED OUT HERE.

PRODUCT:

STRUCTURAL ENGINEER:

INT INTERIOR JST JOIST JT JOINT KIT KITCHEN

SINGLE FAMILY RESIDENCE / 3 STORY TOWNHOMES

OCCUPANCY CLASSIFICATION RESIDENTIAL R-3

CONSTRUCTION TYPE: TYPE VB (2 HOUR DWELLING SEPARATION BETWEEN UNITS.)

# GENERAL NOTES DESIGNER: NCRC

THESE DOCUMENTS ARE THE PROPERTY OF THE DESIGNER AND SHALL NOT BE COPIED, PROVIDE BLOCKING AND/OR BACKING AT ALL TOWIEL BAR, TOWIEL RING AND/OR DUPLICATED, ALTERED, MODIFIED OR REVISED IN ANY WAY WITHOUT THE EXPRESSED WRITTEN APPROVAL OF THE DESIGNER.

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE AND ALL INCONSISTENCES SHALL BE BROUGHT TO THE ATTENTION OF THE DEVELOPER AND THE DESIGNER BEFORE PROCEEDING WITH WORK.

ANY ERRORS OR OMISSIONS FOUND IN THESE DRAWINGS SHALL BE BROUGHT TO

DEVELOPERS AND DESIGNERS ATTENTION IMMEDIATELY. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED

ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING UNLESS

OTHERWISE NOTED. ALL TRUSS DRAWINGS TO BE REVIEWED AND APPROVED BY THE STRUCTURAL

ENGINEER PRIOR TO ISSUANCE OF BUILDING PERMIT.

ALL OR EQUAL SUBSTITUTIONS MUST BE SUBMITTED TO AND APPROVED BY CITY BUILDING OFFICIAL PRIOR TO INSTALLATION.

ALL ANGLED PARTITIONS ARE 45 DEGREES UNLESS OTHERWISE NOTED. PROVIDE FIREBLOCKING. (PER NCRC SECTION R302.II)

ALL ELECTRICAL AND MECHANICAL EQUIPMENT AND METERS ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS, CONTRACTOR TO VERIFY

TOILET PAPER HOLDER LOCATIONS, AS SHOWN PER PLAN. TYPICAL AT ALL BATHROOMS AND POWDER ROOMS. VERIFY LOCATIONS AT FRAMING WALK.

CONSULTANTS:

LOCAL JURISDICTION:

BUILDER:

ELASTOMERIC SHEET WATERPROOFING: FURNISH AND INSTALL ALL WATERPROOFING COMPLETE. A 40 MIL. SELF-ADHERING MEMBRANE OF RUBBERIZED ASPHALT INTEGRALLY BONDED TO POLYETHYLENE SHEETING, OR EQUAL. INSTALL PER MANUFACTURE'S AND TRADE ASSOCIATION'S PRINTED INSTALLATION INSTRUCTIONS. 6" MINIMUM LAP AT ALL ADJACENT WALL SURFACES.

TO THE BEST OF THE DESIGNER'S KNOWLEDGE THESE DOCUMENTS ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS TYPE OF CONSTRUCTION AND OCCUPANCY.

SHOP DRAWING REVIEW AND DISTRIBUSTION, ALONG WITH PRODUCT SUBMITTALS, REQUESTED IN THE CONSTRUCTION DOCUMENTS, SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR, UNLESS DIRECTED OTHERWISE UNDER A SEPARATE AGREEMENT.

DEVIATIONS FROM THESE DOCUMENTS IN THE CONSTRUCTION PHASE SHALL BE REVIEWED BY THE DESIGNER AND THE OWNER PRIOR TO THE START OF WORK IN QUESTION. ANY DEVIATIONS FROM THESE DOCUMENTS WITHOUT PRIOR REVIEW, SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS REPRESENTED ON THESE DOCUMENTS INCLUDING THE WORK AND MATERIALS FURNISHED BY SUBCONTRACTORS AND VENDORS.

THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM THE GEOTECHNICAL ENGINEER (SOILS REPORT), ON THE STUDY OF THE PROPOSED SITE, TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR. IN THE EVENT THE GEOTECHNICAL REPORTS DO NOT EXIST, THE SOILS CONDITION SHALL BE ASSUMED TO BE A MINIMUM DESIGN SOIL PRESSURE STATED BY THE STRUCTURAL ENGINEER OF RECORD FOR THE PURPOSE OF STRUCTURAL DESIGN.

GENERAL CONTRACTOR SHALL ASSURE THE SOIL CONDITIONS MEET OR EXCEED

ALL WORK PERFORMED BY THE GENERAL CONTRACTOR SHALL COMPLY AND CONFORM WITH LOCAL AND STATE BUILDING CODES, ORDINANCES AND REGULATIONS, ALONG WITH ALL OTHER AUTHORITIES HAVING JURISDICTION. THE GENERAL CONTRCATOR IS RESPONSIBLE TO BE AWARE OF THESE REQUIREMENTS AND GOVERNING REGULATIONS.

PROVIDE AN APPROVED WASHER DRAIN PAN AT SECOND FLOOR ONLY THAT DRAINS TO EXTERIOR.

WINDOW SUPPLIER TO VERIFY AT LEAST ONE WINDOW IN ALL BEDROOMS TO HAVE A CLEAR EGRESS OPENING OF 5.7 SQ FT WITH MIN. DIMENSION OF 24" IN HEIGHT AND 20" IN WIDTH: SILL HEIGHT NOT GREATER THAN 44" ABOVE FLOOR. (PER LOCAL CODES) ALL HANDRAIL BALLUSTERS TO BE SPACED SUCH THAT A 4" SPHERE CANNOT PASS

BETWEEN BALLUSTERS. (PER LOCAL CODES) PROVIDE STAIR HANDRAILS AND GUARDRAILS (PER LOCAL CODES)

DESIGNER:

GMD DESIGN GROUP

SUMANEE, GA. 30097

PHONE: (770) 375-7351

1845 SATELLITE BLVD. STE 850

CONTACT: DONALD J. MCGRATH

EMAIL: DONNIE@GMDDESIGNGROUP.COM

# BUILDER SET:

THE SCOPE OF THIS SET OF PLANS IS TO PROVIDE A "BUILDER'S SET" OF CONSTRUCTION DOCUMENTS AND GENERAL NOTES HEREINAFTER REFERRED TO AS "PLANS". THIS SET OF PLANS IS SUFFICIENT TO OBTAIN A BUILDING PERMIT; HOWEVER, ALL MATERIALS AND METHODS OF CONSTRUCTION NECESSARY TO COMPLETE THE PROJECT ARE NOT NECESSARILY DESCRIBED. THE PLANS DELINEATE AND DESCRIBE ONLY LOCATIONS, DIMENSIONS, TYPES OF MATERIALS, AND GENERAL METHODS OF ASSEMBLING OR FASTENING. THEY ARE NOT INTENDED TO SPECIFY PARTICULAR PRODUCTS OR OTHER METHODS OF ANY SPECIFIC MATERIALS, PRODUCT OR METHOD. THE IMPLEMENTATION OF THE PLANS REQUIRES A CLIENT / CONTRACTOR THOROUGHLY KNOWLEDGEABLE WITH THE APPLICABLE BUILDING CODES AND METHODS OF CONSTRUCTION SPECIFIC TO THIS PRODUCT TYPE AND TYPE OF CONSTRUCTION.

CONSTRUCTION REQUIREMENTS AND QUALITY: PROVIDE WORK OF THE SPECIFIC QUALITY; WHERE QUALITY LEVEL IS NOT INDICATED, PROVIDE WORK OF QUALITY CUSTOMARY IN SIMILAR TYPES OF WORK. WHERE THE PLANS AND SPECIFICATIONS, CODES, LAWS, REGULATIONS, MANUFACTURER'S RECOMMENDATIONS OR INDUSTRY STANDARDS REQUIRE WORK OF HIGHER QUALITY OR PERFORMANCE, PROVIDE WORK COMPLYING WITH THOSE REQUIREMENTS AND QUALITY. WHERE TWO OR MORE QUALITY PROVISIONS OF THOSE REQUIREMENTS CONFLICT WITH THE MOST STRINGENT REQUIREMENT; WHERE REQUIREMENTS ARE DIFFERENT BUT APPARENTLY EQUAL, AND WHERE IT IS UNCERTAIN WHICH REQUIREMENT IS MOST STRINGENT, OBTAIN CLARIFICATION FROM THE GMD DESIGN GROUP BEFORE PROCEEDING.

NO: DATE: REVISION: 08.15.24 PROFESSIONAL SEAL:

PROJECT TITLE: 50' Series Hartwell

PROJECT NO: GMD-GA22008.01

TION ORMA FCHNICAL

PRINT DATE: May 13, 2022

Front Elevation 'C' SCALE: I/4"=I'-0" AT 22"X34" LAYOUT || I/8"=I'-0" AT || I"XI7" LAYOUT



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PROFESSIONAL SEAL:

PROJECT TITLE:

# 50' Series Hartwell

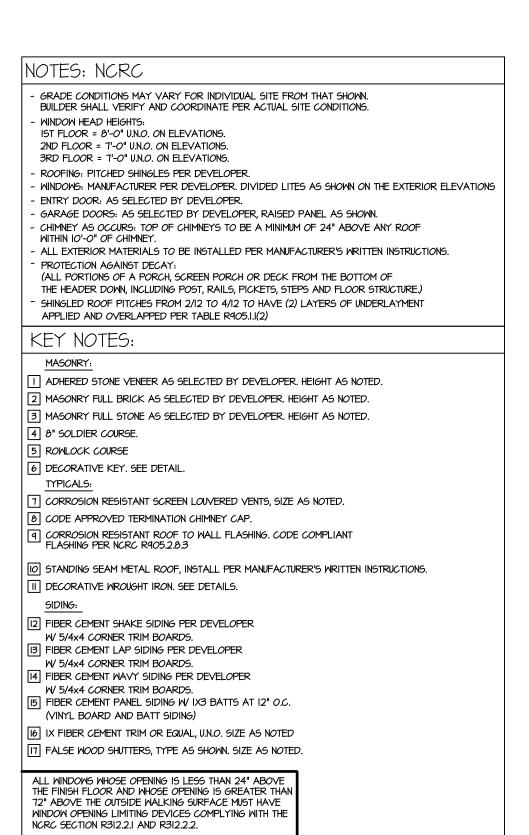
PROJECT NO: GMD-GA22008.01

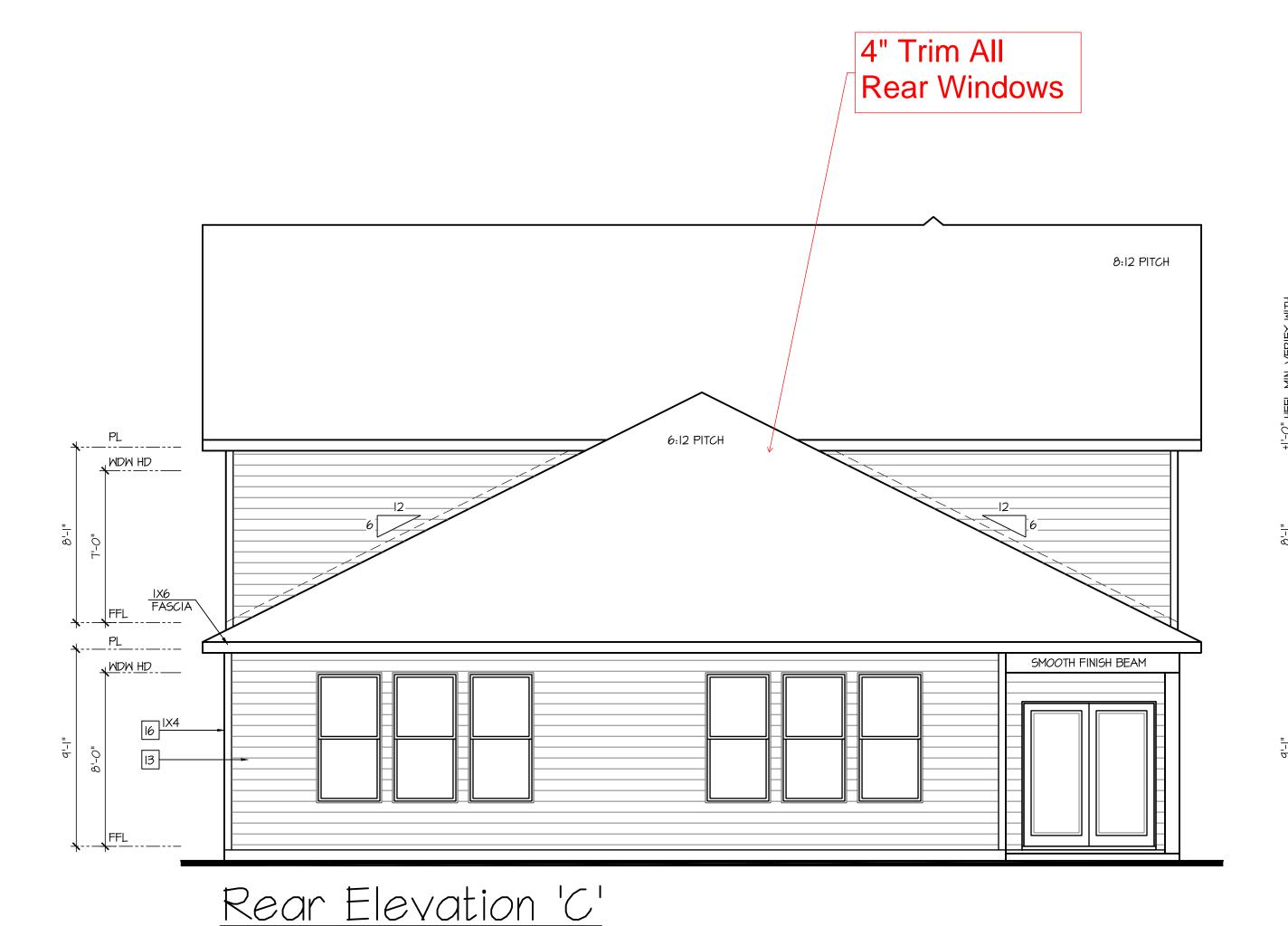
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QUICK VIEW -

PRINT DATE:
May 13, 2022

SHEET NO:

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NO: DATE: REVISION:

OB.15.24

PROFESSIONAL SEAL:

PROJECT TITLE:

50' Series Hartwell

PROJECT NO: GMD-GA22008.01

FRONT ELEVATION 'C'

PRINT DATE:

May 13, 2022

ET NO:

# ATTIC VENT CALCULATION FOR PLAN 'PLAN 2': 1:150 RATIO.

THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED.

GENERAL CONTRACTOR SHALL VERIFY THE NET FREE VENTILATION OF THE VENT PRODUCT SELECTED BY OWNER. VERIFY WITH MANUFACTURER OF HIGH AND LOW VENTS TO BE USED FOR MINIMUM CALCULATED VENTS REQUIRED. THE REQUIRED VENTILATION SHALL BE MAINTAINED. PROVIDE INSULATION STOP SUCH THAT INSULATION DOES NOT OBSTRUCT FREE AIR MOVEMENT AS REQUIRED BY THE BUILDING OFFICIAL.

ALL OVERLAP FRAMED ROOF AREAS SHALL HAVE OPENINGS BETWEEN THE ADJACENT ATTICS IN THE ROOF SHEATHING (AS ALLOWED BY THE STRUCTURAL ENGINEER) TO ALLOW PASSAGE AND ATTIC VENTILATION BETWEEN THE TWO OR ISOLATED ATTIC SPACES SHALL BE VENTED INDEPENDENTLY PER LOCAL CODE. PER DEVELOPER, AT ALL CANTILEVERED FLOORS, CANTILEVERED ARCHITECTURAL POP-OUTS, AND ANY DOUBLE FRAMING PROJECTIONS THAT ARE SEPARATED FROM THE VENTING CALCULATIONS SHOWN ABOVE, PROVIDE A CONTINUOUS 2" CORROSION RESISTANT SOFFIT VENT AT UNDERSIDE OF FRAMED ELEMENT.

### (PER SECTION R806.2)

I SQUARE INCH VENT FOR EVERY 150 SQUARE INCHES OF CEILING \*144 SQ. IN. = 1 SQ. FT.

BLDG. CEILING (SF) X 144 = BLDG (SQ. IN.) BLDG. (SQ. IN.) / I50 = SQ. IN. OF VENT REQUIRED

**ROOF AREA I:=** 1309 SF 1309 SQ. FT. X 144 = 188496 SQ. IN. 188496 SQ. IN. / 150 = 1256.64 SQ. IN. OF VENT REQ'D

**ROOF AREA 2:=**| III3 SF
| III3 SQ. FT. X 144 = 160272 SQ. IN.
| 160272 SQ. IN. / 150 = 1068.48 SQ. IN. OF VENT REQ'D

ROOF AREA 3:= 182 SF 182 SQ. FT. X 144 = 26208 SQ. IN. 26208 SQ. IN. / 150 = 174.72 SQ. IN. OF VENT REQ'D

BUILDER TO PROVIDE ATTIC VENTING MINIMUM AREA PER LOCAL CODE WITH THE AMOUNT/NUMBER VENTS AND TYPE OF VENTING USED PER THE WRITTEN MANUFACTURER'S SPECIFICATIONS PRIOR TO THE FINISH OF ROOFING MATERIAL.

- PITCHED ROOFS AS NOTED.

- ALL ROOF DRAINAGE SHALL BE PIPED TO STREET OR APPROVED DRAINAGE FACILITY.

- DASHED LINES INDICATE WALL BELOW. - LOCATE GUTTER AND DOWNSPOUTS PER BUILDER.
- TRUSS MANUFACTURER SHALL SUBMIT STRUCTURAL CALCS AND SHOP DRAWINGS TO THE BUILDER'S GENERAL CONTRACTOR AND BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATIONS.
- 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.

# ATTIC VENT CALCULATION FOR PLAN 'PLAN 2': 1:300 RATIO.

AS AN ALTERNATE TO THE 1/150 RATIO LISTED ABOVE, THE NET FREE CROSS-VENTILATION AREA MAY BE REDUCED TO 1/300 PER SECTION R806.2

GENERAL CONTRACTOR SHALL VERIFY THE NET FREE VENTILATION OF THE VENT PRODUCT SELECTED BY OWNER. VERIFY WITH MANUFACTURER OF HIGH AND LOW VENTS TO BE USED FOR MINIMUM CALCULATED VENTS REQUIRED. THE REQUIRED VENTILATION SHALL BE MAINTAINED. PROVIDE INSULATION STOP SUCH THAT INSULATION DOES NOT OBSTRUCT FREE AIR MOVEMENT AS REQUIRED BY THE BUILDING OFFICIAL.

ALL OVERLAP FRAMED ROOF AREAS SHALL HAVE OPENINGS BETWEEN THE ADJACENT ATTICS IN THE ROOF SHEATHING (AS ALLOWED BY THE STRUCTURAL ENGINEER) TO ALLOW PASSAGE AND ATTIC VENTILATION BETWEEN THE TWO OR ISOLATED ATTIC SPACES SHALL

BE VENTED INDEPENDENTLY PER LOCAL CODE.

PER DEVELOPER, AT ALL CANTILEVERED FLOORS, CANTILEVERED ARCHITECTURAL POP-OUTS, AND ANY DOUBLE FRAMING PROJECTIONS THAT ARE SEPARATED FROM THE VENTING CALCULATIONS SHOWN ABOVE, PROVIDE A CONTINUOUS 2" CORROSION RESISTANT SOFFIT VENT AT UNDERSIDE OF FRAMED ELEMENT.

BUILDER TO PROVIDE (2) LAYERS OF UNDERLAYMENT AT ANY ROOF W A SLOPE FROM 2:12 TO LESS THAN 4:12

### (PER SECTION R806.2)

I SQUARE INCH VENT FOR EVERY 300 SQUARE INCHES OF CEILING \*144 SQ. IN. = 1 SQ. FT.

BLDG. CEILING (SF) X 144 = BLDG (SQ. IN.)

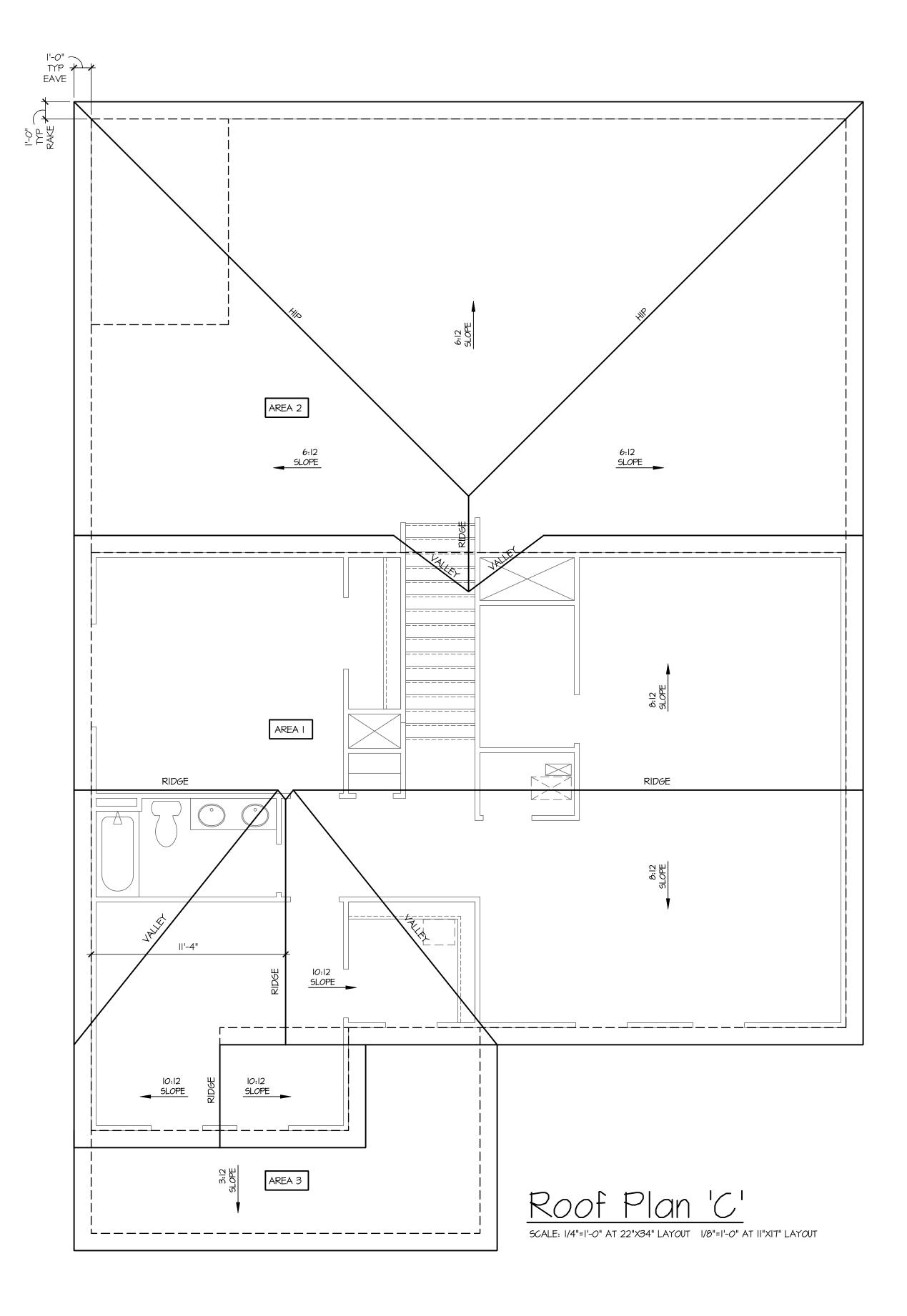
BLDG. (SQ. IN.) / 300 = SQ. IN. OF VENT REQUIRED SQ. IN. OF VENT REQUIRED / 2 = 50% AT HIGH \$ 50% AT LOW.

ROOF AREA I: = 1309 SF | 1309 | 5Q. FT. X | 144 = | 188496 | 5Q. | IN. | 188496 | 5Q. FT. / 300 = | 628.32 | 5Q. | IN. OF VENT REQ'D | 628.32 | 5Q. | IN. / 2 = | 314.16 | 5Q. | IN. OF VENT AT LOW REQUIRED.

ROOF AREA 2: =

| 1113 | 50. Ft. x | 144 = | 160272 | 50. | N. | 160272 | 50. | N. | 05 | VENT REQ'D | 534.24 | 50. | N. | 05 | VENT AT LOW REQUIRED.

BUILDER TO PROVIDE ATTIC VENTING MINIMUM AREA PER LOCAL CODE WITH THE AMOUNT/NUMBER VENTS AND TYPE OF VENTING USED PER THE WRITTEN MANUFACTURER'S SPECIFICATIONS PRIOR TO THE FINISH OF ROOFING MATERIAL.



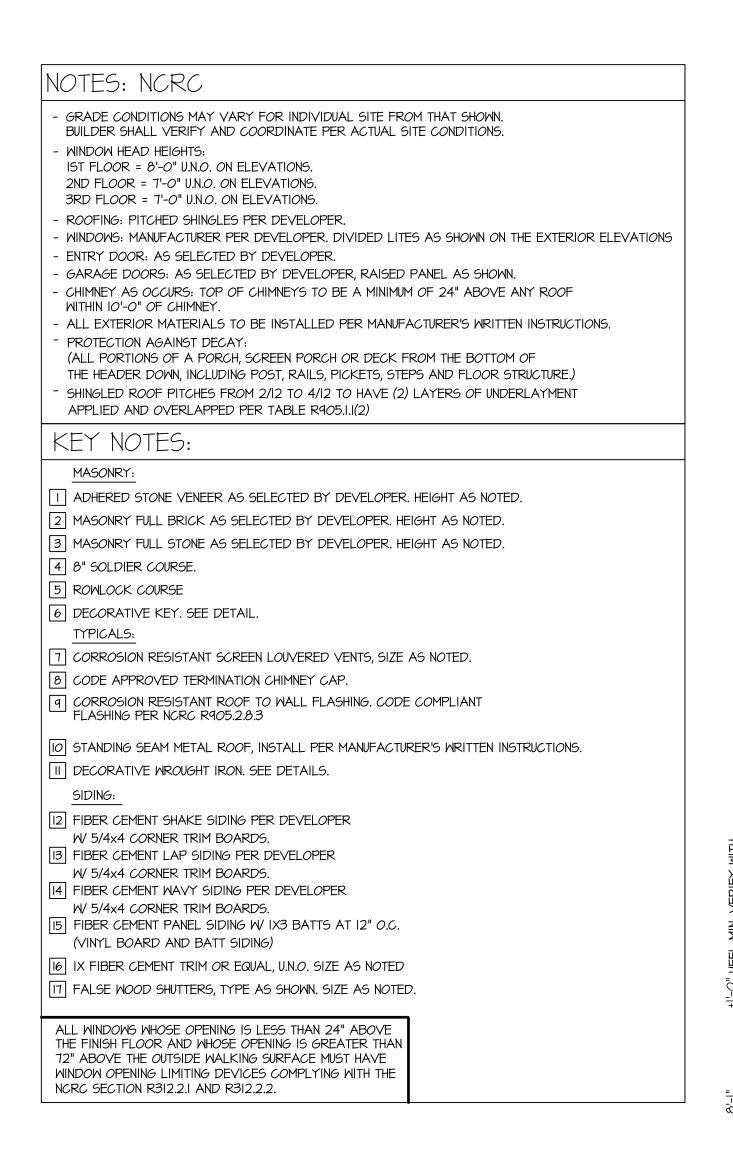


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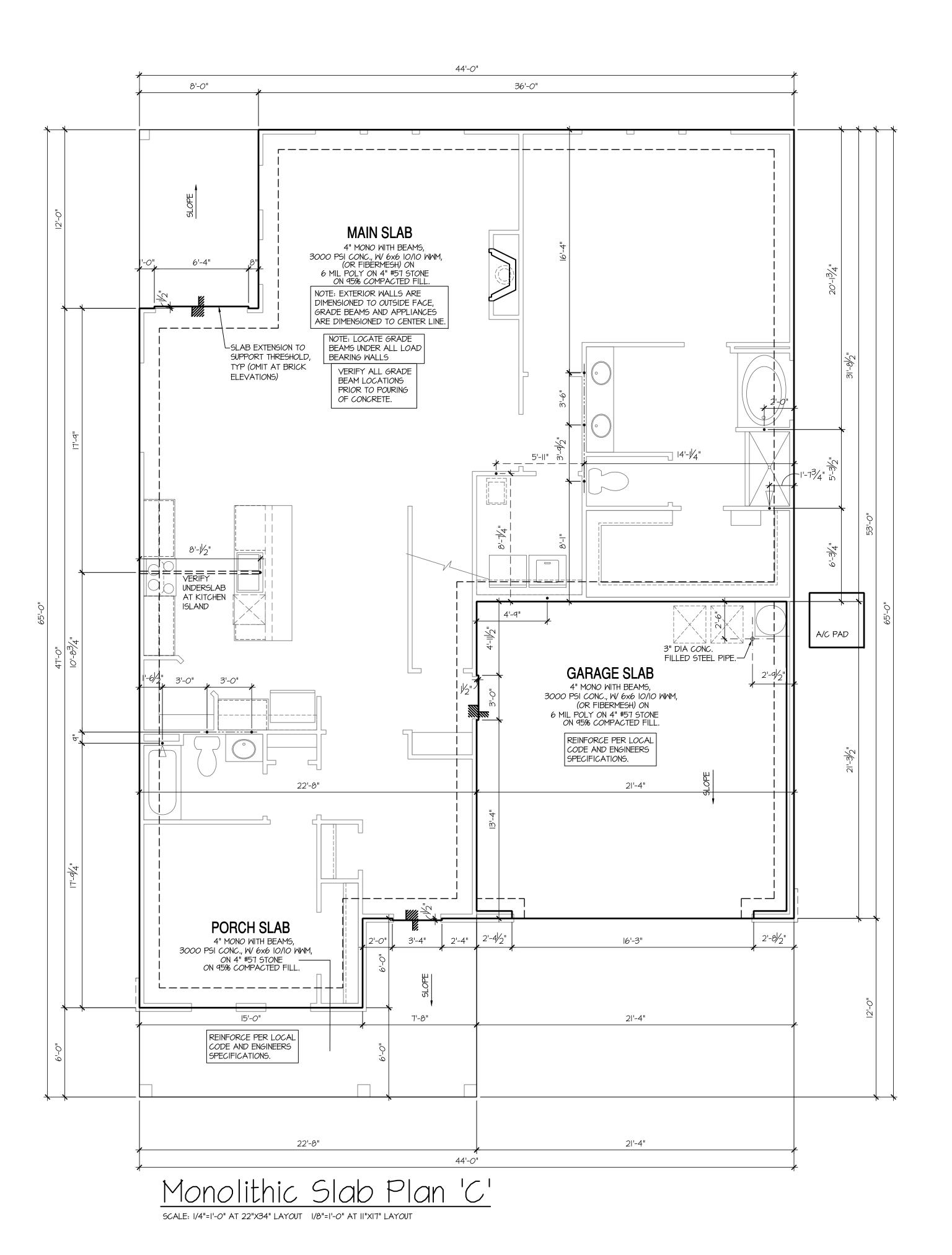




# NOTES: NCRC

- IRRIGATION SYSTEM SHALL BE DESIGNED TO PREVENT THE SATURATION OF SOIL ADJACENT TO BUILDING. - THIS PERIMETER DIMENSION PLAN IS FOR DIMENSIONAL INFORMATION ONLY.
- SLOPE ALL STOOPS AND HARDSCAPE MATERIAL AWAY FROM BUILDING TYPICAL.
- SLOPE GARAGE FLOOR I/8" PER FOOT TO GARAGE DOOR OPENING.
- VERIFY CURB CUT BLOCKOUT WITH GARAGE DOOR MANUFACTURER.
- REFER TO CIVIL DRAWINGS FOR FINISH SURFACE ELEVATIONS.
- FINISH GRADE SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING. REFER TO SOILS
- REPORT FOR ANY SPECIFIC REQUIREMENTS. - REFER TO STRUCTURAL DRAWINGS FOR HOLDDOWNS, FOOTING DETAILS, CURB THICKNESS, AND
- INFORMATION NOT SHOWN ON THIS PLAN.
- PLUMBING FIXTURES, VENT LOCATIONS, ETC. ARE APPROXIMATE. CONTRACTOR TO VERIFY COUNT AND LOCATION.
- VERIFY THE SUPPLY FOR SEPARATE CONDUITS TO ANY ISLAND FOR GAS, WATER OR ELECTRIC. VERIFY ALL DOOR THRESHOLD HEIGHTS TO HARD SURFACES.
- 8 1/4" MAX AT INSWING DOORS. (PER NCRC SECTION R311.3.1.)
- TYP STOOP AT INSWING/SLIDER DOORS: 36" DEEP BY THE WIDTH OF THE DOOR SERVED, MINIMUM. (PER NCRC SECTION R311.3.) PROVIDE A SLIP-RESISTANT FINISH.
- FOR THE USE OF EXPOSED GAS WATER HEATERS IN THE GARAGE, PROTECT THE WATER HEATER WITH 3" DIA CONCRETE FILLED STEEL PIPE EMBEDDED INTO CONCRETE FOOTING.

- BORACARE TERMITE TO BE APPLIED TO FRAMING PER PRODUCT SPECIFICATIONS. (PROVIDE CHEMICAL TREATMENT FOR PROTECTION FROM TERMITE INVESTATION
- ACCORDING TO LOCAL CODES.)
- WOOD CONTACTING CONCRETE OR MASONRY OR LESS THAN CODE REQUIRED
- SEPARATION TO GRADE SHALL BE PRESSURE TREATED OR FOUNDATION GRADE REDWOOD. SET ALL EXTERIOR WALL SILLS IN MASTIC.



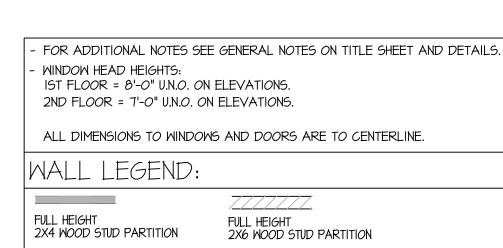
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May 13, 2022

4 MS C



BRICK / STONE VENEER

STUD WALL BELOW
HEIGHT AND STUD SIZE AS NOTED

LOW GYPSUM BOARD WALL
HEIGHT AND STUD SIZE AS NOTED

DRYWALL OPENING. HEIGHT
AS NOTED ON PLAN.

# KEY NOTES: NCRC

### FIRE PROTECTION:

HOUSE TO GARAGE FIRE SEPARATION. GARAGE/HOUSE SEPARATION
AT VERTICAL SURFACES SHALL BE PROTECTED
WITH ONE (I) LAYER I/2" GYPSUM BOARD. (PER NCRC SECTION R302.6)

GARAGE/HOUSE SEPARATION AT HORIZONTAL SURFACES
SHALL BE PROTECTED WITH ONE (I) LAYER 5/8"

TYPE 'X' GYPSUM BOARD. (PER NCRC SECTION R302.6)

HOUSE TO GARAGE DOOR SEPARATION. PROVIDE 1-3/8" SOLID CORE DOOR OR APPROVED 20 MINUTE RATED DOOR. (PER NCRC SECTION R302.5.1)

BENEATH STAIRS AND LANDINGS. I/2" GYPSUM BOARD ON WALLS AND CEILING OF ENCLOSED ACCESSIBLE AREAS. (PER NCRC SECTION R302.7)
IN CONCEALED SPACES BETWEEN STAIR STRINGERS PROVIDE FIREBLOCKING PER R302.11
MEP'S

FOR THE USE OF EXPOSED GAS WATER HEATERS IN THE GARAGE, INSTALL PER LOCAL CODES.

5 FAU 8'X8' PLATFORM. VERIFY WITH TRUSS MANUFACTURER.
(6'-6" MIN. CLEAR HEIGHT TO HORIZONTAL MEMBERS,
2"X6" OVER 2"X4" BOTTOM CHORD. OF TRUSS, VERIFY W TRUSSES.)

6 A/C CONDENSER PAD. (VERIFY)

PRE-FABRICATED METAL FIREPLACE.
INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

ATTIC ACCESS LARGE ENOUGH TO REMOVE LARGEST PIECE OF EQUIPMENT BUT NOT LESS THAN 30"x22". FIRE RATED ACCESS AS NOTED. (PER NCRC 807.1)
ATTIC ACCESS LADDER, VERIFY LOCATION AND SIZE WITH TRUSSES. (25 1/2" X 54" SIZE.) FOR GARAGE TO ATTIC SEPARATION PER NCRC 302.5.I EXCEPTION.
ACCESS PANEL SHALL BE WEATHERSTRIPPED
AND INSULATED TO AN R-IO MINIMUM VALUE PER LOCAL CODES. TYPICALS:

9 TEMPERED SAFETY GLASS. (PER NCRC SECTION R308.4)

PLYWOOD SHELF ABOVE WITH DRYWALL FINISH OVER. HEIGHT AS NOTED.

III HALF WALL, HEIGHT AS NOTED.

12 INTERIOR SOFFITS: FFL = 8'-1" U.N.O. SFL = 7'-6" U.N.O. BATHS:

13 SHOWER. TEMPERED GLASS ENCLOSURE.

14 TUB-SHOWER COMBO. TEMPERED GLASS ENCLOSURE.

15 CERAMIC TILE SHOWER AND FLOOR. TEMPERED GLASS ENCLOSURE.

[16] ACRYLIC TUB W CERAMIC PLATFORM KITCHEN:

30" SLIDE-IN ELECTRICAL RANGE W HOOD AND MICRO ABV. VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

18 30" GAS COOKTOP AND HOOD.

VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

19 ELECTRIC OVEN WITH MICROWAVE OVEN.

LAUNDRY CLOSETS, AN OPENING HAVING AN AREA NOT LESS THAN 100 SQ IN SHALL BE PROVIDED IN THE CLOSET ENCLOSURE OR MAKEUP AIR SHALL BE PROVIDED BY OTHER APPROVED MEANS PER LOCAL CODES. LOUVERED DOORS OR PROVIDING A TRANSFER GRILLE ABOVE THE DOOR OR THE DOOR MAY BE UNDERCUT TO PROVIDE ADDITIONAL VENTILATION

# 9'-I" STAIR NOTE:

(USE 14" TJI WITH 3/4" PLYWOOD SUBFLOOR)
15 TREADS AT IO" EACH VERIFY
16 RISERS AT +/- 7.75" = 123 3/4" TOTAL
RISE VERIFY

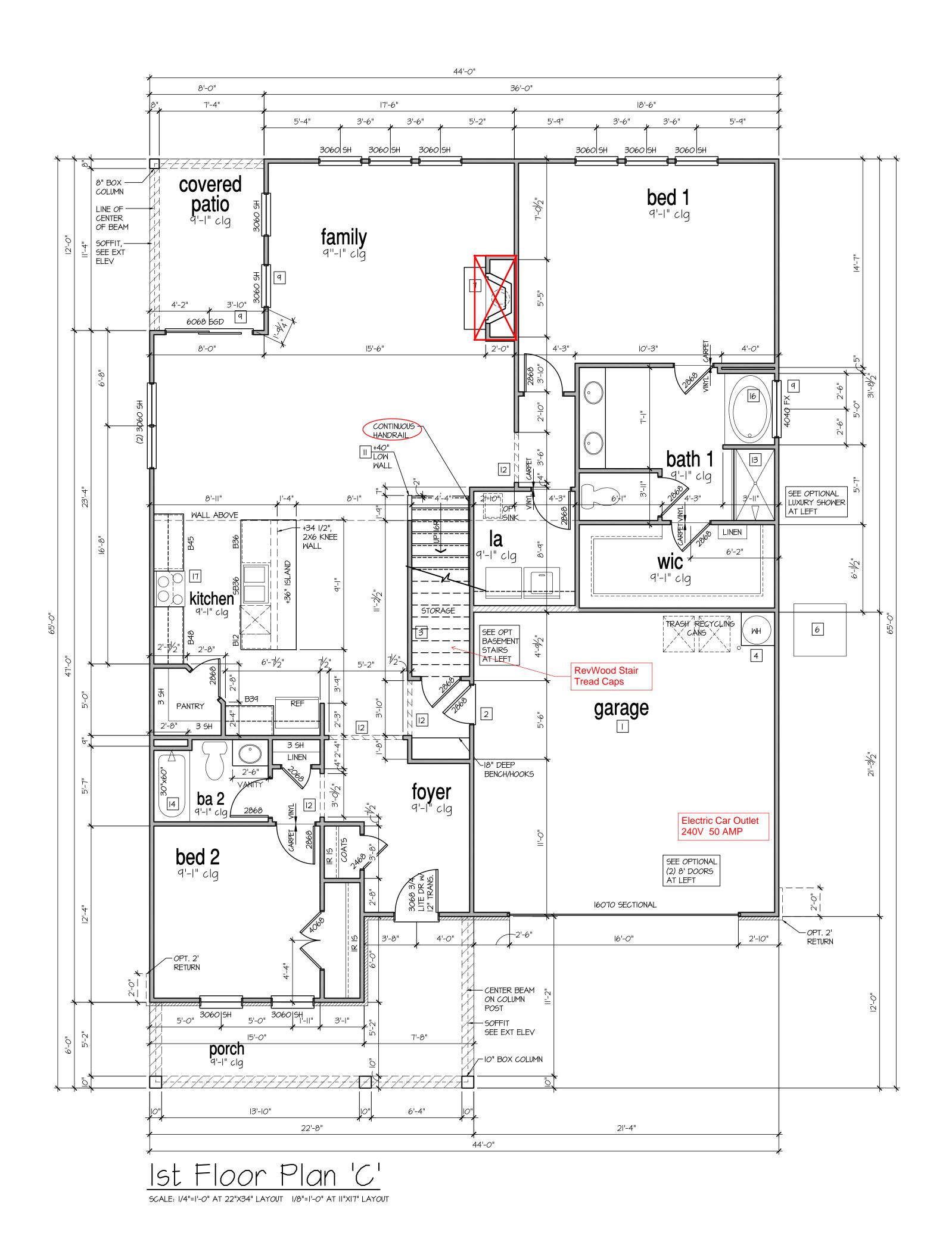
8'-9 1/2" STAIR NOTE:

(USE 14" TJI WITH 3/4" PLYWOOD SUBFLOOR)

15" TREADS AT 10" EACH VERIFY

16 RISERS AT +/- 7.5" = 120 1/4" TOTAL

RISE VERIFY





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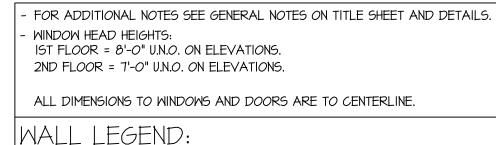
IST FLOOR PLAN 'C'

PRINT DATE:

May 13, 2022

ET NO:

5 C



WALL LEGEND:

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FULL HEIGHT

FULL HEIGHT 2X4 WOOD STUD PARTITION 2X6 WOOD STUD PARTITION

STUD WALL BELOW

BRICK / STONE VENEER

HEIGHT AND STUD SIZE AS NOTED 

LOW GYPSUM BOARD WALL HEIGHT AND STUD SIZE AS NOTED

DRYWALL OPENING. HEIGHT AS NOTED ON PLAN.

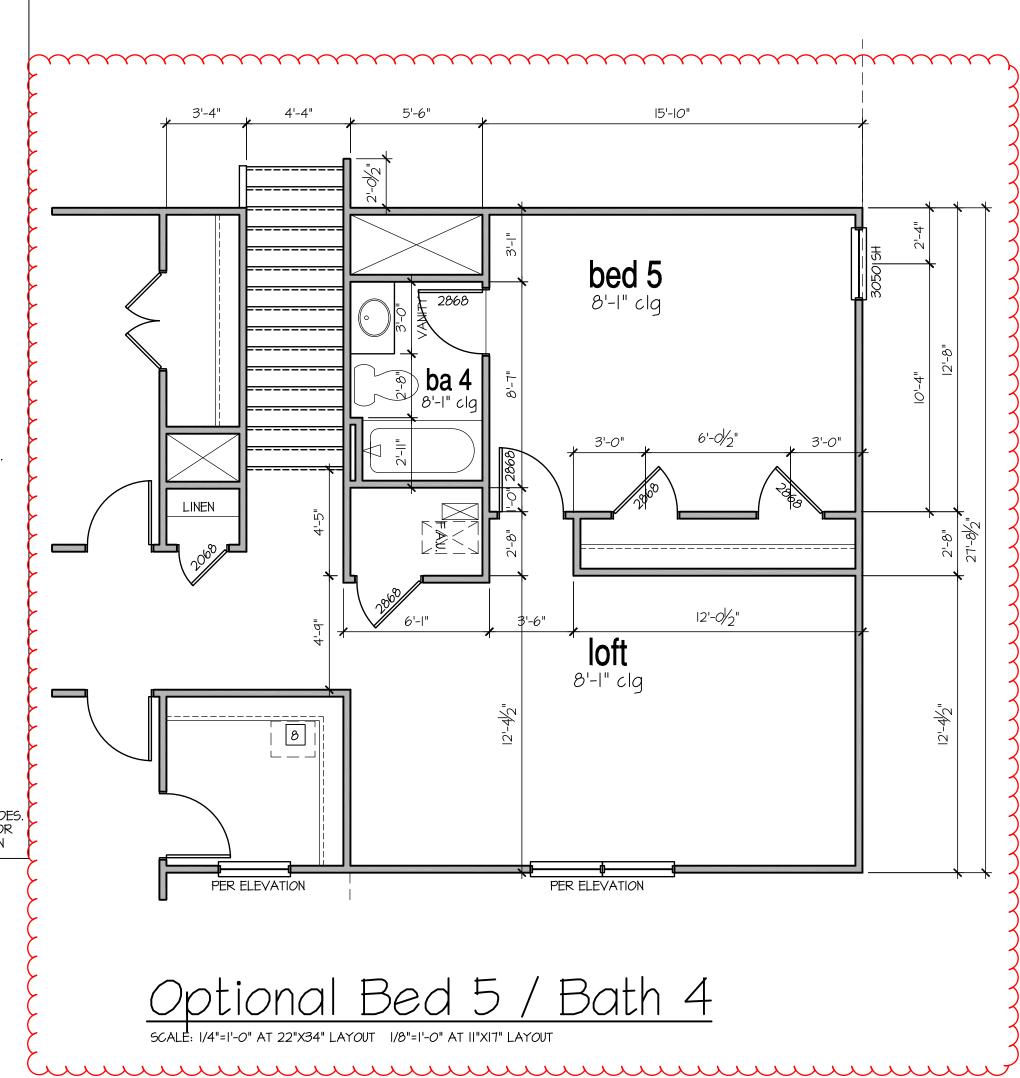
# KEY NOTES: NCRC

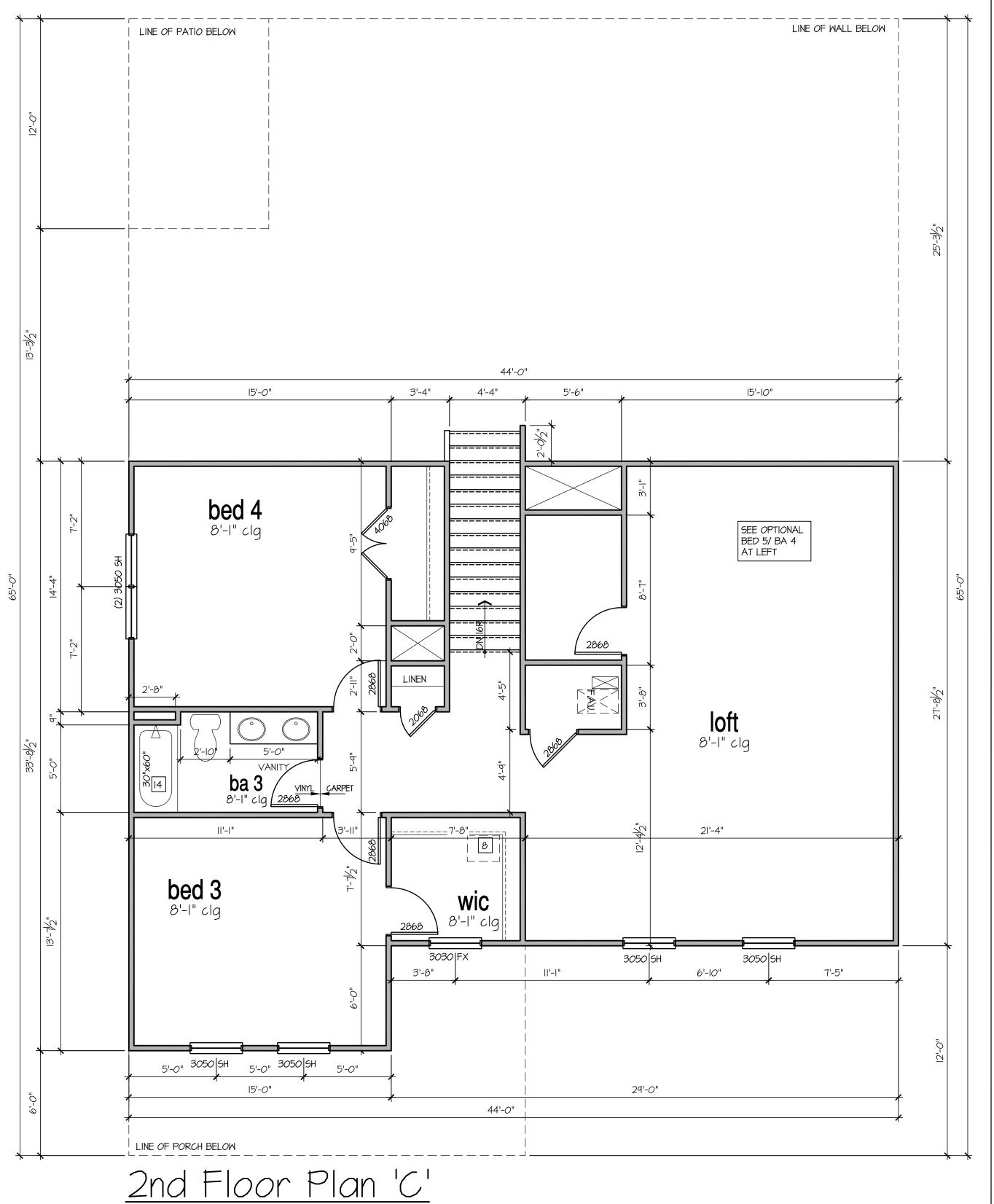
### FIRE PROTECTION:

- HOUSE TO GARAGE FIRE SEPARATION. GARAGE/HOUSE SEPARATION AT VERTICAL SURFACES SHALL BE PROTECTED WITH ONE (I) LAYER I/2" GYPSUM BOARD. (PER NCRC SECTION R302.6)
- GARAGE/HOUSE SEPARATION AT HORIZONTAL SURFACES SHALL BE PROTECTED WITH ONE (1) LAYER 5/8" TYPE 'X' GYPSUM BOARD. (PER NCRC SECTION R302.6)
- 7 HOUSE TO GARAGE DOOR SEPARATION. PROVIDE 1-3/8" SOLID CORE DOOR OR APPROVED 20 MINUTE RATED DOOR. (PER NCRC SECTION R302.5.I)
- 3 BENEATH STAIRS AND LANDINGS. I/2" GYPSUM BOARD ON WALLS AND CEILING OF ENCLOSED ACCESSIBLE AREAS. (PER NCRC SECTION R302.7) IN CONCEALED SPACES BETWEEN STAIR STRINGERS PROVIDE FIREBLOCKING PER R302.II
- 4 FOR THE USE OF EXPOSED GAS WATER HEATERS IN THE GARAGE, INSTALL PER LOCAL CODES.
- 5 FAU 8'X8' PLATFORM. VERIFY WITH TRUSS MANUFACTURER. (6'-6" MIN. CLEAR HEIGHT TO HORIZONTAL MEMBERS, 2"X6" OVER 2"X4" BOTTOM CHORD. OF TRUSS, VERIFY W/ TRUSSES.)
- 6 A/C CONDENSER PAD. (VERIFY)
- PRE-FABRICATED METAL FIREPLACE. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 8 ATTIC ACCESS LARGE ENOUGH TO REMOVE LARGEST PIECE OF EQUIPMENT BUT NOT LESS THAN 30"x22". FIRE RATED ACCESS AS NOTED. (PER NCRC 807.1) ATTIC ACCESS LADDER, VERIFY LOCATION AND SIZE WITH TRUSSES. (25 I/2" X 54" SIZE.) FOR GARAGE TO ATTIC SEPARATION PER NCRC 302.5.I EXCEPTION.
- ACCESS PANEL SHALL BE WEATHERSTRIPPED AND INSULATED TO AN R-IO MINIMUM VALUE PER LOCAL CODES. TYPICALS:
- 9 TEMPERED SAFETY GLASS. (PER NCRC SECTION R308.4)
- O PLYWOOD SHELF ABOVE WITH DRYWALL FINISH OVER. HEIGHT AS NOTED.
- III HALF WALL, HEIGHT AS NOTED.
- 12 INTERIOR SOFFITS: FFL = 8'-1" U.N.O. SFL = 7'-6" U.N.O. BATHS:
- 13 SHOWER. TEMPERED GLASS ENCLOSURE.
- 14 TUB-SHOWER COMBO. TEMPERED GLASS ENCLOSURE.
- 15 CERAMIC TILE SHOWER AND FLOOR. TEMPERED GLASS ENCLOSURE.
- 16 ACRYLIC TUB W CERAMIC PLATFORM
- KITCHEN:
- 17 30" SLIDE-IN ELECTRICAL RANGE W/ HOOD AND MICRO ABV. VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 18 30" GAS COOKTOP AND HOOD.
- VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 19 ELECTRIC OVEN WITH MICROWAVE OVEN.
- 20 LAUNDRY CLOSETS, AN OPENING HAVING AN AREA NOT LESS THAN 100 SQ IN SHALL BE PROVIDED IN THE CLOSET ENCLOSURE OR MAKEUP AIR SHALL BE PROVIDED BY OTHER APPROVED MEANS PER LOCAL CODES. LOUVERED DOORS OR PROVIDING A TRANSFER GRILLE ABOVE THE DOOR OR THE DOOR MAY BE UNDERCUT TO PROVIDE ADDITIONAL VENTILATION

9'-1" STAIR NOTE:

(USE 14" TJI WITH 3/4" PLYWOOD SUBFLOOR) 15 TREADS AT IO" EACH VERIFY 16 RISERS AT +/- 7.75" = 123 3/4" TOTAL RISE VERIFY



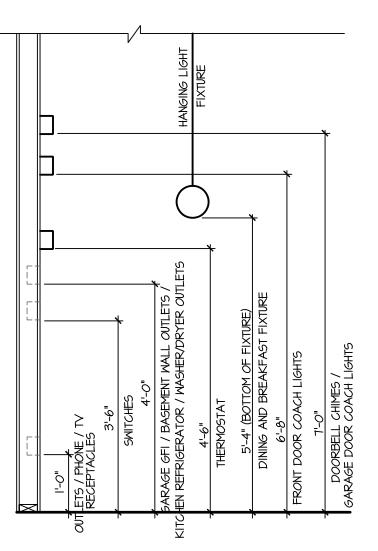


NO: DATE: REVISION: 08.15.24 PROFESSIONAL SEAL:

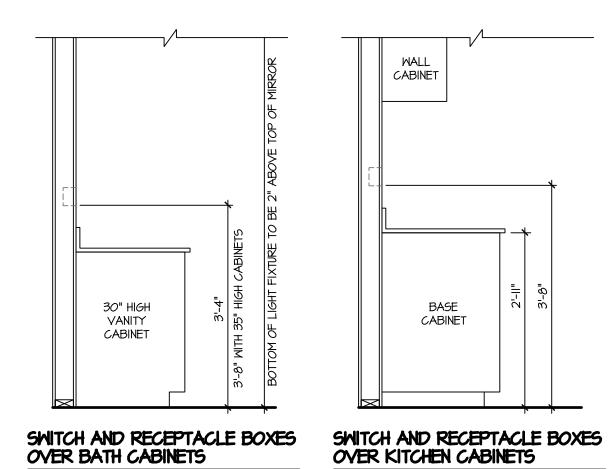
50' Series Hartwell

PROJECT NO: GMD-GA22008.01

May 13, 2022



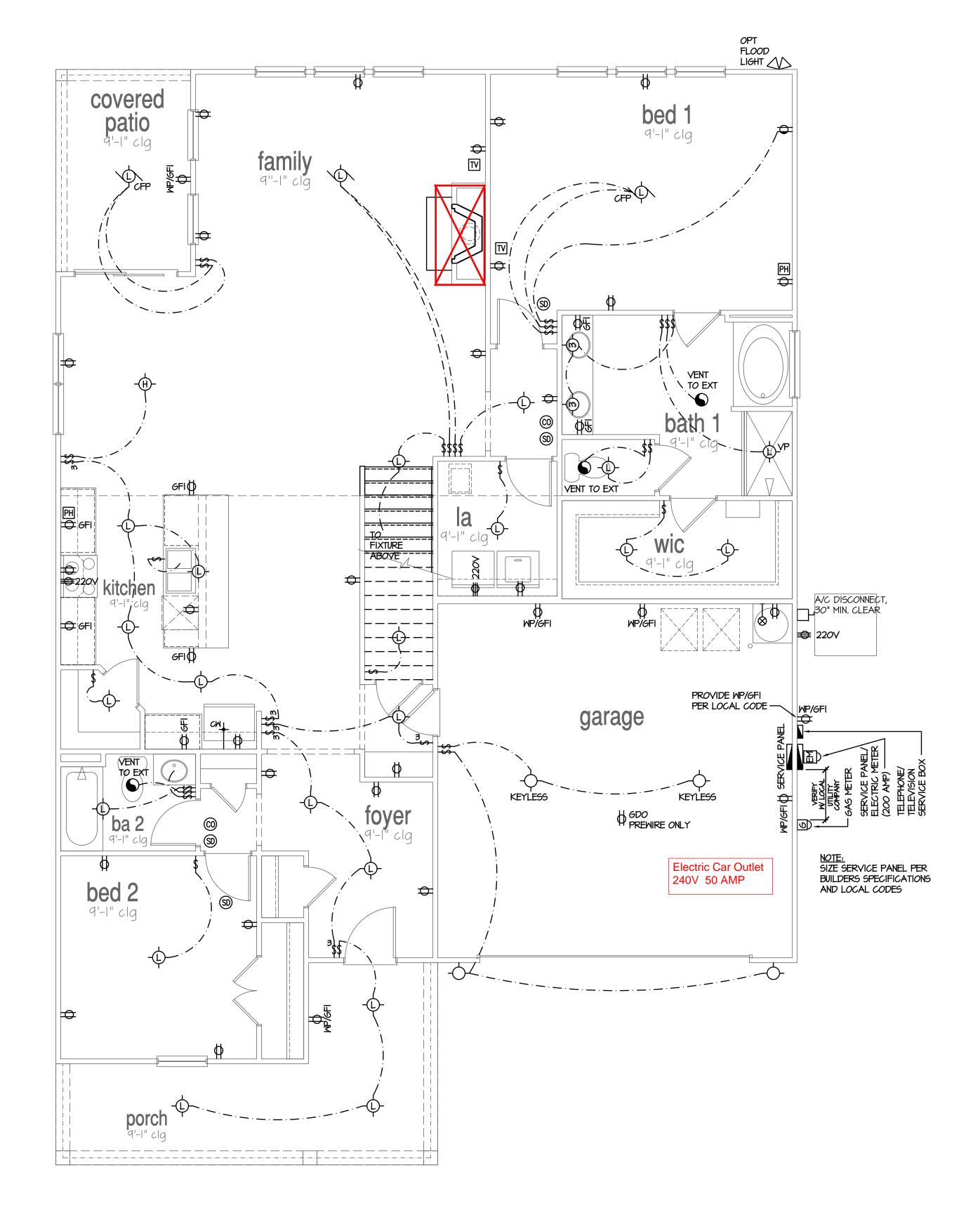
# STANDARD ELECTRICAL BOX HEIGHTS



# NOTES:

- PROVIDE GROUNDING ELECTRICAL ROD PER LOCAL CODES.
- PROVIDE AND INSTALL ARC FAULT CIRCUIT-INTERRUPTERS (AFCI) AS REQUIRED BY NATIONAL ELECTRICAL CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
   ALL EXHAUST FANS SHALL HAVE BACKDRAFT DAMPERS.
- FAN/LIGHTS IN WET/DAMP LOCATIONS SHALL BE LABLED "SUITABLE FOR WET OR DAMP LOCATIONS."
- ELECTRICAL SYSTEMS ARE SHOWN FOR INTENT ONLY. THESE SYSTEMS SHALL BE ENGINEERED BY OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND PLACEMENT.
- PROVIDE AND INSTALL LOCALLY CERTIFIED SMOKE DETECTORS AND CO2 DETECTORS AS REQUIRED BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
   PROVIDE AND INSTALL GROUND FAULT CIRCUIT-INTERRUPTERS (GFI) AS REQUIRED BY NATIONAL ELECTRICAL CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.
- ELECTRICAL CONTRACTOR TO PROVIDE REQUIRED DIRECT HOOK-UPS/CUTOFFS.
- HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.
- ALL ELECTRICAL AND MECHANICAL EQUIPMENT (FURNACES, A/C UNITS, ELECTRICAL PANELS, SANITARY SUMP PITS, DRAIN TILE SUMP, AND WATER HEATERS) ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS.
- PROVIDE POWER, LIGHT AND SWITCH AS REQUIRED FOR ATTIC FURNACE PER CODE AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

MANUFACTURER'S WRITTEN INSTRUCTION	NS.
LEGEND:	> UNDERCOUNTER FLUORESCENT LIGHT FIXTURE
DUPLEX OUTLET	CEILING MOUNTED INCANDESCENT LIGHT FIXTURE
MP/GFI WEATHERPROOF GFI DUPLEX OUTLET	WALL MOUNTED INCANDESCENT
GROUND-FAULT CIRCUIT-INTERRUPTER DUPLEX OUTLET	LIGHT FIXTURE  LED LIGHT FIXTURE
HALF-SWITCHED DUPLEX OUTLET	(VP) = VAPOR PROOF
\$\psi 220\forall 220 \forall OUTLET	EXHAUST FAN (VENT TO EXTERIOR)
REINFORCED JUNCTION BOX	- EXHAUST FAN/LIGHT COMBINATION (VENT TO EXTERIOR)
\$ WALL SMITCH	
\$ 3 THREE-WAY SWITCH	CEES FLUORESCENT LIGHT FIXTURE
\$4 FOUR-WAY SMITCH	TECH HUB SYSTEM
대 CHIMES	CEILING FAN
PUSHBUTTON SWITCH	(PROVIDE ADEQUATE SUPPORT)
® IIOV SMOKE DETECTOR S/O COMBO	CEILING FAN WITH INCANDESCENT LIGHT FIXTURE  (PRO (INC. APPOILATE CHIPPOPT)
© CO2 DETECTOR COMBO UNIT	(PROVIDE ADEQUATE SUPPORT)
THERMOSTAT	——
PH TELEPHONE	
TELEVISION	HB HOSE BIBB
ELECTRIC METER	
ELECTRIC PANEL	Н
DISCONNECT SWITCH	T) WALL SCONCE







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PROJECT TITLE:

# 50' Series Hartwell

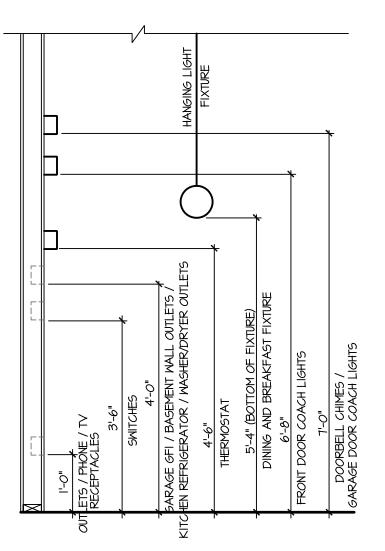
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T FLOOR UTILITY PLAN

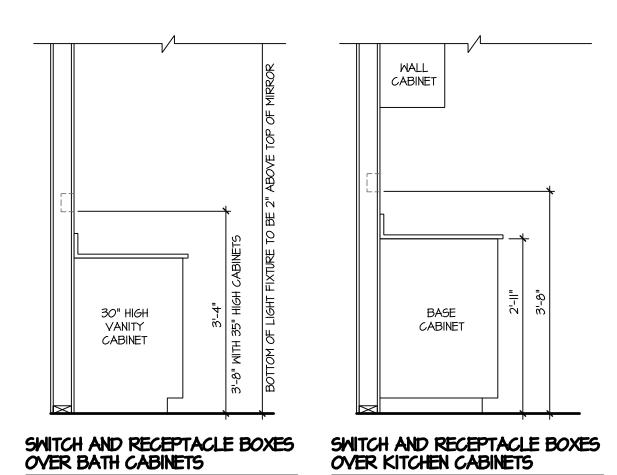
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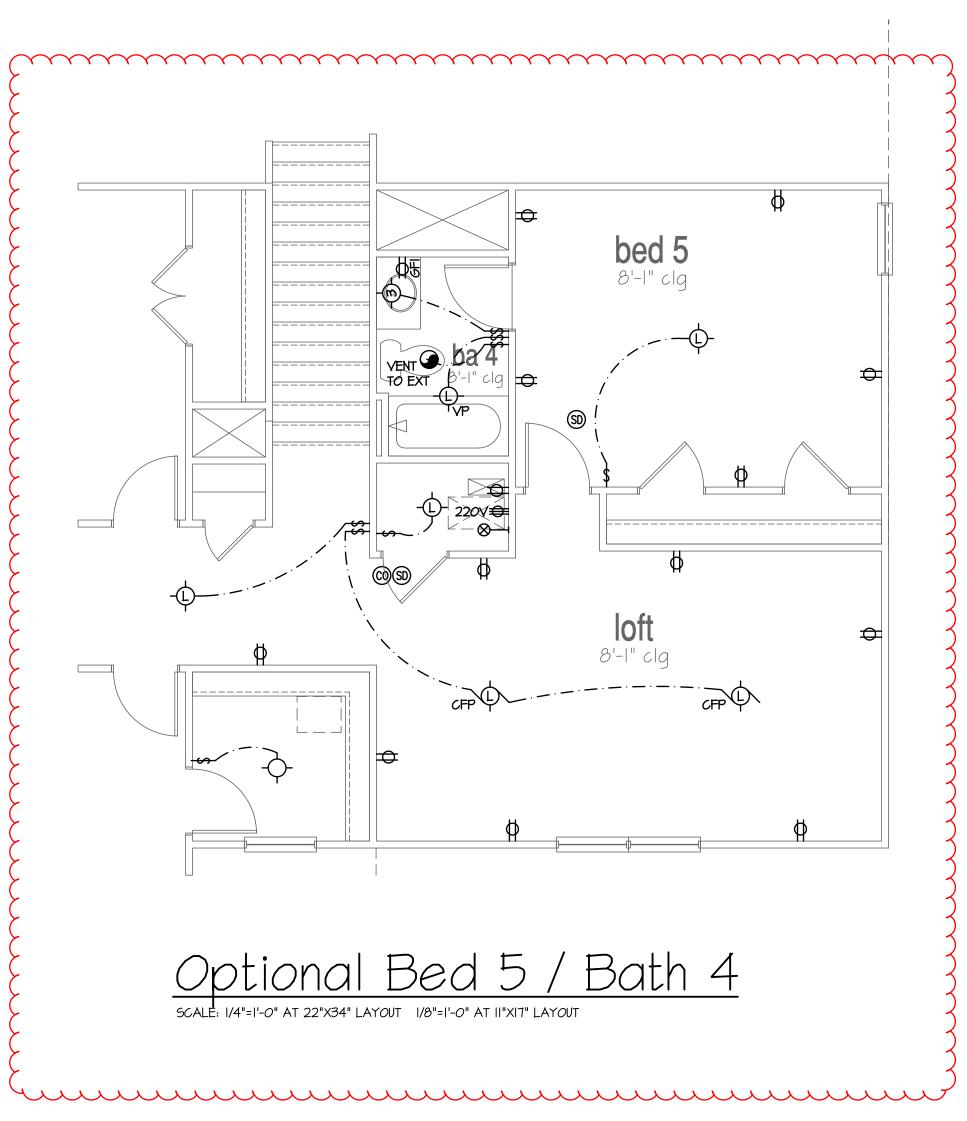
# STANDARD ELECTRICAL BOX HEIGHTS

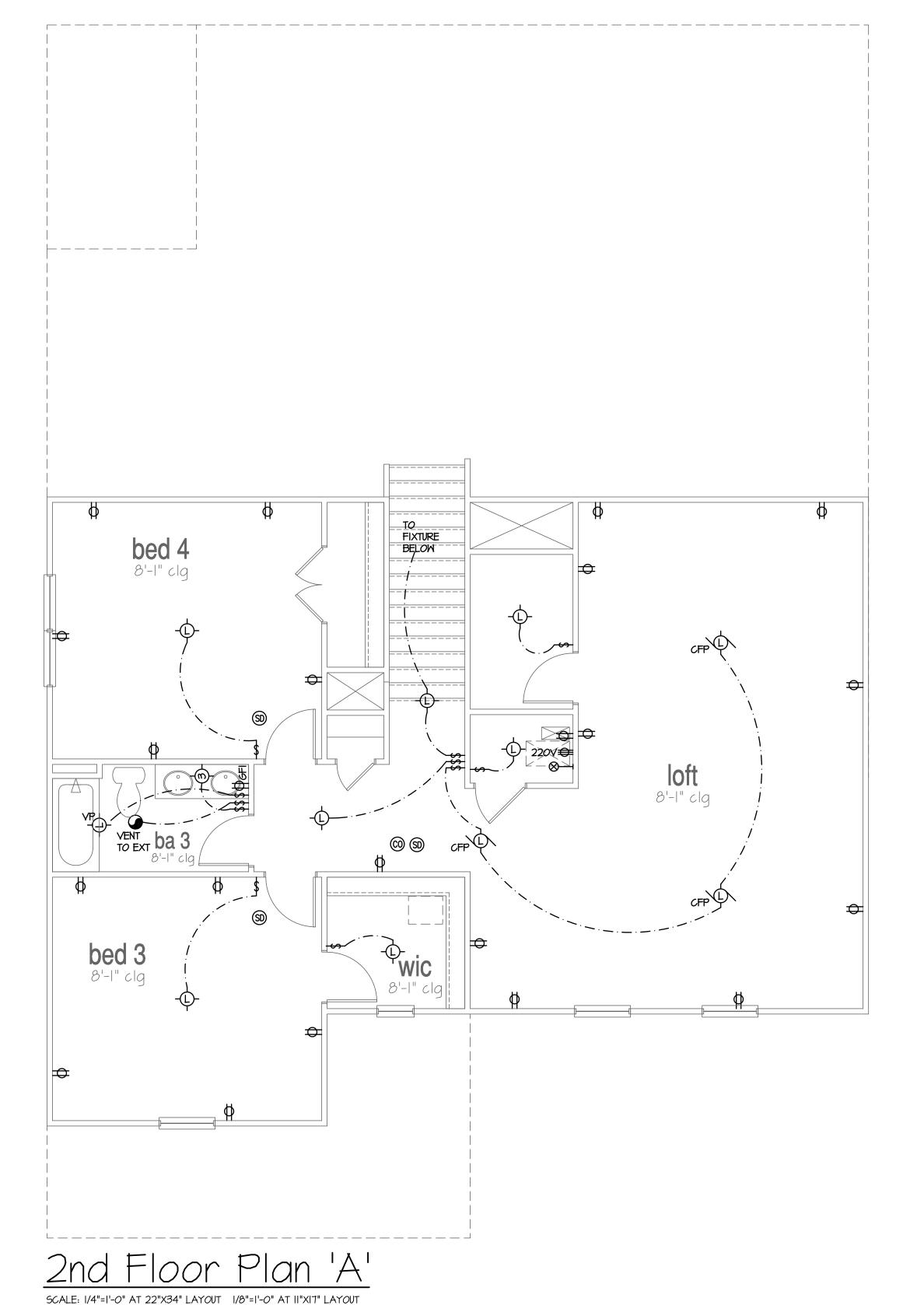


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MANUFACTURER'S WRITTEN INSTRUCTION	N5.
LEGEND:	> UNDERCOUNTER FLUORESCENT LIGHT FIXTURE
DUPLEX OUTLET	
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\$\\phi\\ 220\ \ 220 \ \ \ \ \ \ \ \ \ \ \ \ \	EXHAUST FAN (VENT TO EXTERIOR)
① REINFORCED JUNCTION BOX	- EXHAUST FAN/LIGHT COMBINATION (VENT TO EXTERIOR)
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CHIMES	CEILING FAN
PUSHBUTTON SWITCH	(PROVIDE ADEQUATE SUPPORT)
(S) IIOV SMOKE DETECTOR (S/O) W BATTERY BACKUP (COMBO)	CEILING FAN WITH INCANDESCENT LIGHT FIXTURE  (FOR USE ADECUATE CURROLL)
(3) CO2 DETECTOR COMBO UNIT	(PROVIDE ADEQUATE SUPPORT)
① THERMOSTAT	
PH TELEPHONE	
TV TELEVISION	HB HOSE BIBB
ELECTRIC METER	CM 1/4" WATER STUB OUT
ELECTRIC PANEL	н н н н н н н н н н н н н н н н н н н
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PROFESSIONAL SEAL:		

PROJECT TITLE:

# 50' Series Hartwell

PROJECT NO: GMD-GA22008.01

TEST FLOOR UTILITY PLAN OF

PRINT DATE:
May 13, 2022

HEET NO:

7.1

9'-1" STAIR NOTE:
(USE 14" TJI WITH 3/4" PLYWOOD SUBFLOOR) 15 TREADS AT IO" EACH VERIFY 16 RISERS AT +/- 7.75" = 123 3/4" TOTAL

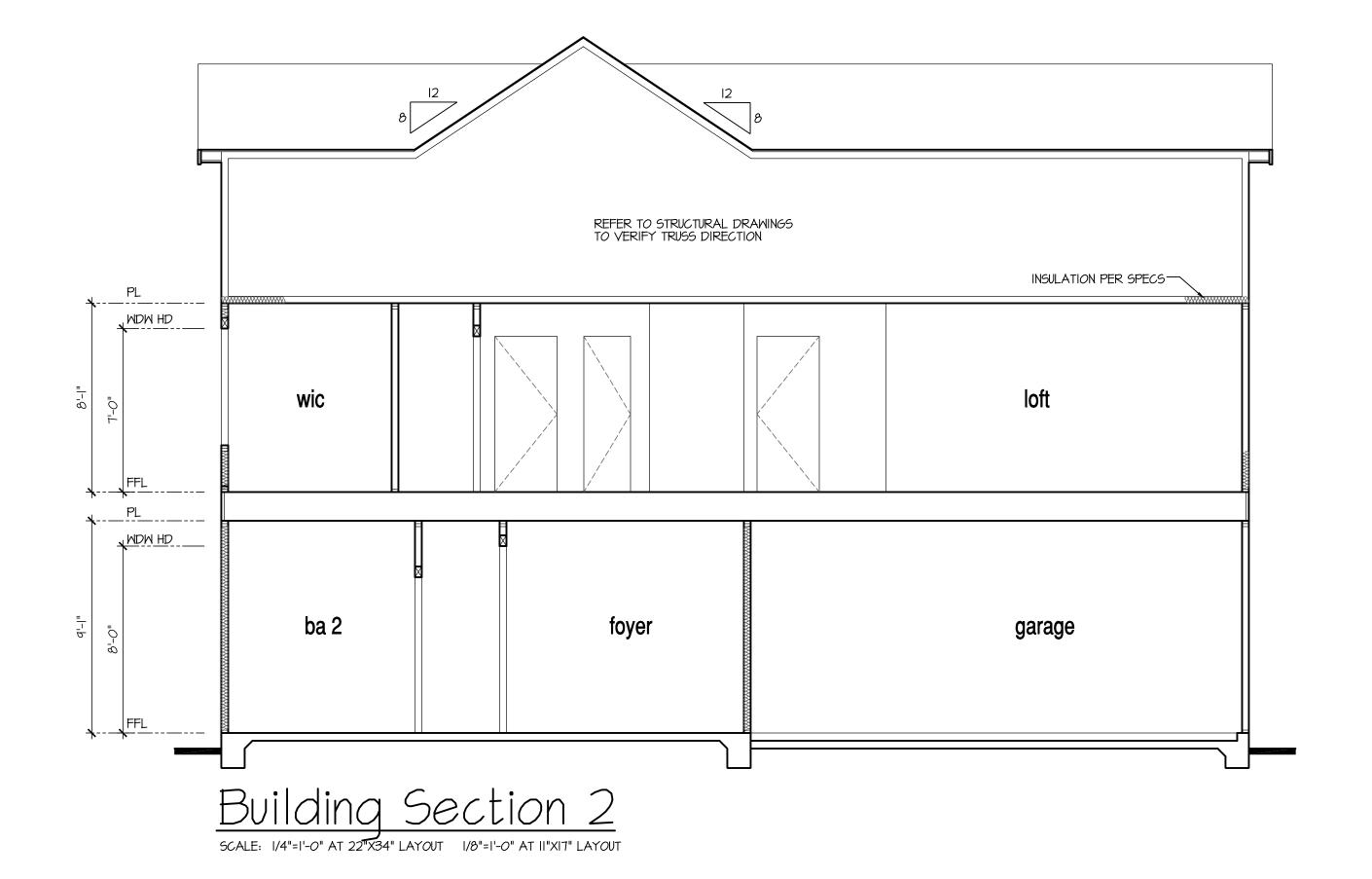
# NOTES: NCRC TABLE NIIO2.1.2

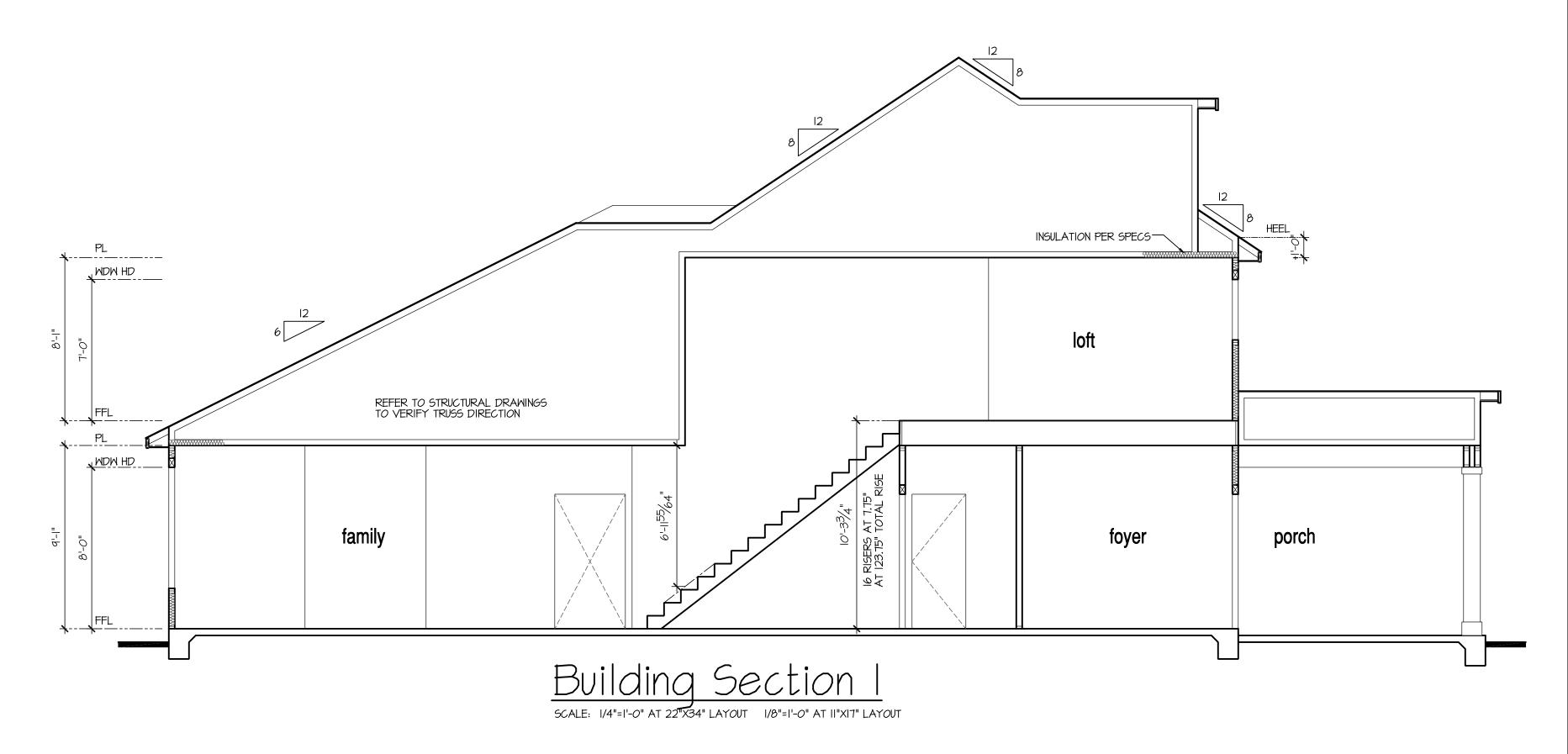
- REFER TO FLOOR PLAN NOTES FOR TYPICAL FIRE PROTECTION NOTES AND LOCATIONS.
- THESE BUILDING SECTIONS MAY VARY AT ALTERNATE ELEVATION STYLES AND AT "PLAN OPTION" CONDITIONS. REFER TO MAIN FLOOR PLAN AND ALTERNATE FLOOR PLANS FOR INFORMATION NOT SHOWN HERE. - BUILDING SECTIONS SHOWN HERE DEPICT VOLUMN SPACES WITHIN THE STRUCTURE. REFER TO STRUCTURAL DRAWINGS, TRUSS DRAWINGS, STRUCTURAL DETAILS AND CALCULATIONS BY OTHER FOR ALL STRUCTURAL INFO.
- ROOFING: PITCHED SHINGLE ROOF. REFER TO ROOF PLAN FOR TYPICALS.
- WOOD FLOORS: FLOOR SHEATHING OVER FLOOR JOIST. REFER TO STRUCTURAL AND TRUSS DRAWINGS BY OTHERS.
- VERIFY STAIRS MINIMUM AND MAXIMUM REQUIREMENTS FOR CONSTRUCTION CLEARANCES WITH LOCAL CODES.
- INSULATION: PER TABLE NIIO2.1.2. NCRC 2018 ZONE 3 AND 4:

EXTERIOR WALLS: FLOOR OVER GARAGE: ATTIC KNEEWALL: CRAWL SPACE FLOORING: R-10/15 MINIMUM. VERIFY SLAB VALUE:

R-15 BATTS MINIMUM. VERIFY CEILING WITH ATTIC ABOVE: R-38 BATTS MINIMUM. VERIFY R-19 BATTS MINIMUM. VERIFY R-19 BATTS MINIMUM. VERIFY R-10 MINIMUM. VERIFY

PER STATE RESIDENTIAL CODE COMPLIANCE METHOD TO BE DETERMINED BY BUILDER.







NO:	DATE:	REVISION:
$\overline{\triangle}$	08.15.24	

PROJECT TITLE:

# 50' Series Hartwell

PROJECT NO: GMD-GA22008.01

May 13, 2022

### SHEET INDEX:

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S-0.1	GENERAL STRUCTURAL NOTES				
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S 3MS B	MONOLITHIC SLAB FOUNDATION PLANS	ELEVATION	В	&	OPTIO
S 3MS C	MONOLITHIC SLAB FOUNDATION PLANS	ELEVATION	С	&	OPTIO
S 3MS D	MONOLITHIC SLAB FOUNDATION PLANS	ELEVATION	D	&	OPTIO
S 3MS E	MONOLITHIC SLAB FOUNDATION PLANS	ELEVATION	Ε	&	OPTIO
S 3MS F	MONOLITHIC SLAB FOUNDATION PLANS	ELEVATION	F	&	OPTIO
S 3CS A	CRAWL SPACE FOUNDATION PLANS	ELEVATION	Α	&	OPTIO
S 3CS B	CRAWL SPACE FOUNDATION PLANS	ELEVATION	В	&	OPTIO
S 3CS C	CRAWL SPACE FOUNDATION PLANS	ELEVATION			
S 3CS D	CRAWL SPACE FOUNDATION PLANS	ELEVATION			
S 3CS E	CRAWL SPACE FOUNDATION PLANS	ELEVATION			
S 3CS F	CRAWL SPACE FOUNDATION PLANS	ELEVATION			
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	BASEMENT FOUNDATION PLANS	ELEVATION			
S 3 B	BASEMENT FOUNDATION PLANS	ELEVATION			
S 3 C	BASEMENT FOUNDATION PLANS	ELEVATION			
S 3 D	BASEMENT FOUNDATION PLANS	ELEVATION			
S 3 E	BASEMENT FOUNDATION PLANS	ELEVATION			
S 3 F	BASEMENT FOUNDATION PLANS	ELEVATION	F	&	OPTIO
S 4 A	SECOND FLOOR FRAMING PLANS	ELEVATION			
S 4 B	SECOND FLOOR FRAMING PLANS	ELEVATION	В	&	OPTIO
S 4 C	SECOND FLOOR FRAMING PLANS	ELEVATION	С	&	OPTIO
S 4 D	SECOND FLOOR FRAMING PLANS	ELEVATION	D	&	OPTIO
S 4 E	SECOND FLOOR FRAMING PLANS	ELEVATION	Ε	&	OPTI0
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S 5 D	ROOF FRAMING PLAN	ELEVATION	D		
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S 5 F	ROOF FRAMING PLAN	ELEVATION	F		
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DS-2J	HOLD DOWN DETAILS				
DS-3	BRACED WALL NOTES & DETAILS				
DS-4	PORTAL FRAME DETAILS				
DS-5	MISCELLANEOUS FRAMING DETAILS				
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DS-8	NOT USED				
DS-9J	CRAWL SPACE FOUNDATION DETAILS				
DS-10	BASEMENT FOUNDATION DETAILS				
DS-11	BASEMENT FOUNDATION DETAILS				



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

# HARTWELL - RH

### **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.

THIS PLAN HAS BEEN DESIGNED PER THE 2018 EDITION OF THE NC RESIDENTIAL CODE. WHERE FRAMING, FOUNDATION, OR OTHER STRUCTURAL ITEMS DO NOT COMPLY WITH THE PRESCRIPTIVE METHODS OF THE CODE, THOSE ITEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE PER NCRC R301.1.3.

### **DESIGN SPECIFICATIONS:**

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

• 2018 NORTH CAROLINA RESIDENTIAL CODE AND ENGINEERED DESIGN

2010 NORTH OF WOLKEN RESIDENTIAL GODE THO ENGINEERED DESIGN

### DESIGN LIVE LOAD

- 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 PSFBALCONY = 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 = 115 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:

- PRI-40s SERIES (DEPTH, SERIES AND SPACING PER PLANS)
- LVL: E=2,000,000 PSI, F<sub>B</sub>=3,100 PSI, F<sub>V</sub>=285 PSI, F<sub>C</sub>=750 PSI





Project #:

Designed By:

Project #: 088-22010
Designed By: JPS
Checked By:

Issue Date: 6/23/22 Re-Issue: 7/25/24 Scale: 1/8"=1'-0" @ 11x17

- -

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



### GENERAL STRUCTURAL NOTES:

- 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 FLEMENTS 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
- 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 FLEMENTS 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. VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE
- RESPONSIBILITY OF THE SER. THE CONTRACTOR SHALL VERIFY THE FIFLD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS. THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL FLEMENTS OR NON-STRUCTURAL FLEMENTS EXCEPT FOR THE
- ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL
- 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

### **FOUNDATIONS**

- 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
- 3. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN THE BUILDING CODE.
- 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" MAXIMUM FROM CORNERS.  $\frac{1}{2}$ " 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. 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 FEFT
- 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

- 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 ACL 301: "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
- AIR ENTRAINED CONCRETE MUST BE USED FOR ALL STRUCTURA 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'
- 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.
- 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" | FNGTH
- 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.

- 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
- 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" ACL 530.1 / ASCE 6/TMS 602
- THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION, UNFILLED HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION.
- EACH CRAWL SPACE PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING AND EACH GIRDER SHALL BEAR IN THE MIDDLE HIRD OF THE PIERS. PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- TOP COURSE OF MASONRY SHALL BE GROUTED SOLID 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:**

- 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 PSI,  $F_b$ =875 PSI,  $F_v$ =135 PSI 1.1. FRAMING: SPF #2.
- 1.2. PLATES: SPF #2.
- 1.3. STUDS: SPF STUD GRADE.
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED SOUTHERN YELLOW PINE #2 OR RETTER
- ANCHOR SILL PLATES IN ACCORDANCE W/ GENERAL STRUCTURAL NOTES.
- ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY BE SUBSTITUTED AS NEEDED FOR FASE OF CONSTRUCTION
- NAILS SHALL BE COMMON WIRE NAILS UNLESS OTHERWISE NOTED. BOLT HOLES AND LEAD HOLES FOR LAG SCREWS SHALL BE IN ACCORDANCE WITH NDS SPECIFICATIONS
- 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
- 8. 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.
- FASTEN 4-PLY BEAMS WITH (1) 1/2" DIAMETER THROUGH BOLT W/ NUTS AND WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, 11/2" MINIMUM EDGE DISTANCE. (UNLESS OTHERWISE NOTED)
- 10. 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
- 11. 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
- 12. 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
- 13. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS. 14. ALL LUMBER SPECIFIED ON DRAWINGS IS INTENDED FOR DRY USE ONLY
- (MOISTURE CONTENT <19%) UNLESS OTHERWISE NOTED 15. ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE THE
- DETAILED BY OTHERS. 16. 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

RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND

- STUD SHOES, TYPICAL, UNLESS OTHERWISE NOTED. 17. BEARING WALLS SHALL BE SHEATHED ON NOT LESS THAN ONE SIDE WITH OSB OR CYPSIIM BOARD BRIDGING SHALL BE INSTALLED NOT GREATER THAN 4 FEET APART MEASURED VERTICALLY FROM EITHER END OF THE STUD IN LIEU OF SHEATHING.
- 18. 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, FITHER THROUGH CODE REFERENCES OR CONSTRUCTION DETAILS.
- PRESERVATIVE TREATED WOOD FRAMING TO BE SOUTHERN YELLOW PINE #2 OR BETTER.
- 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.
- 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.
- 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 RAFTÉR OR GABLE END FRAMING.
- FASTEN RAFTER AND CEILING JOIST WITH (6) 12d NAILS UNLESS OTHERWISE NOTED.
- 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):

- 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
- 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 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
- THE TRUSS MANUFACTURER SHALL PROVIDE ADEQUATE BRACING INFORMATION IN ACCORDANCE WITH "BUILDING COMPONENT SAFFTY 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.
- 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
- 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
- TRUSS MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTORS FOR ALL TRUSSES.
- 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
- 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 1/6" OSB OR PLYWOOD MINIMUM. AT BRACED WALL PANELS, PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS OR PLATES
- 4. ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OF 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 12" O.C. IN PANEL FIELD LINLESS 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 FDGE SUPPORT BY USE OF PLYWOOD CLIPS OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING. ROOF SHEATHING TO BE 1/6" OSB MINIMUM.
- 5. 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.
- SHEATHING SHALL HAVE A 1/8" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE APA.

### STRUCTURAL FIBERBOARD PANELS:

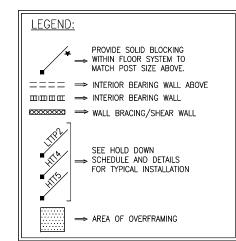
- STRUCTURAL FIBERBOARD SHEATHING SHALL ONLY BE USED WHERE
- SPECIFICALLY NOTED ON THE STRUCTURAL PLANS.
  FABRICATION AND PLACEMENT OF STRUCTURAL FIBERBOARD SHEATHING SHALL BE IN ACCORDANCE WITH THE APPLICABLE AFA STANDARDS.
- SHEATHING SHALL HAVE A  $\mbox{\it 18}$  Gap at panel ends and edges as recommended 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.
- ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS  $(F_y)$  OF 50 KSI UNLESS OTHERWISE NOTED.
- WELDING SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWA D1.1 FLECTRODES FOR SHOP AND FIFLDING WELDING SHALL BE CLASS E70XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS
- ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 31/2" AND FULL FLANGE WIDTH UNLESS OTHERWISE NOTED. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR (2) ½" 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 1/2" DIAMETER BOLTS AT 24"

### **MECHANICAL FASTENERS:**

- ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG-TIE OR APPROVED FOUIVALENT.
- ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE PRESSURE AND/OR FIRE RETARDANT TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 153, G-185.
- 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.



BRICK	VENEER LINTEL SC	HEDULE
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"
LINTELS ARE NOT DESIGNED TO BE BOLTED TO HEADERS UNLESS SPECIFIED ON UNIT PLANS.		

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

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Notes

Project #: 088-22010 Designed By: JPS

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

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

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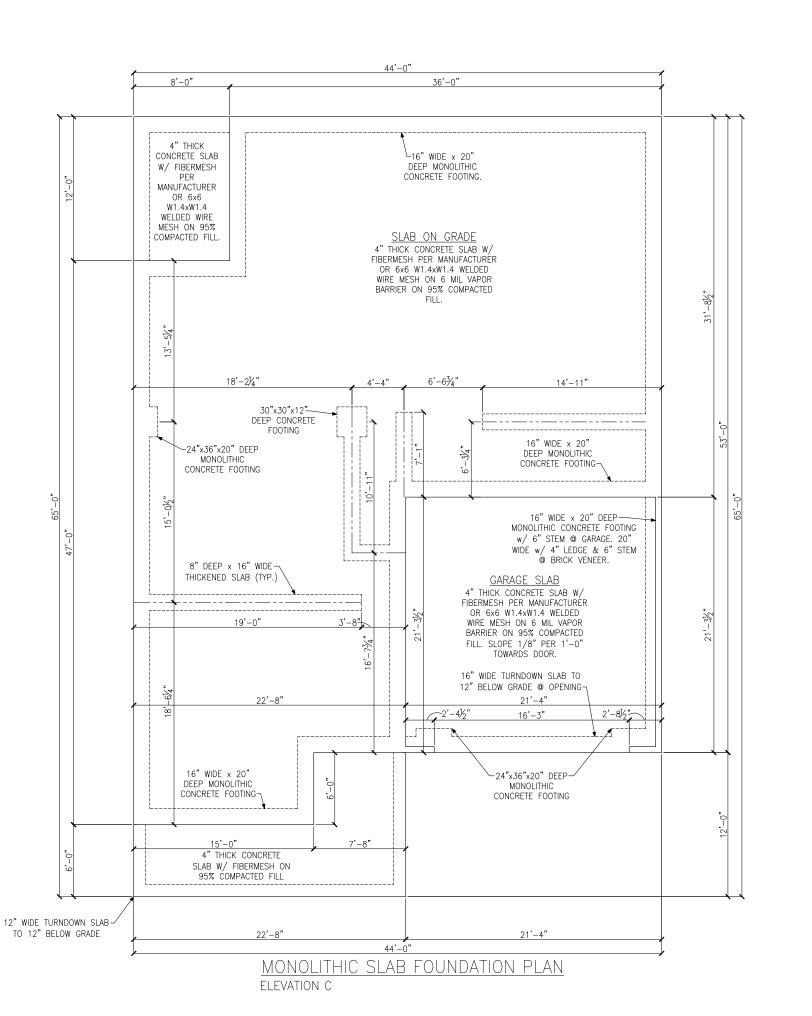
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D-R-HORTON Trevica's Build

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Checked By ssue Date: 6/23/22 Re-Issue: 10/30/23







LEGEND

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

⇒ BEARING WALL ABOVE ПШШІШІІ ⇒ INTERIOR BEARING WALL

⇒ 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

115 M.P.H. Monolithic Elevation C 'Hartwell' -Project #: 088-22010

Carolina

Designed By: JPS

Plans

Foundation

Slab

Option

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Checked By: Issue Date: 6/23/22

Re-Issue: 10/30/23 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34





PROVIDE SOLID BLOCKING
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' NOMINAL WALL PLATE HEIGHT

FLOOR FRAMING TO BE 14" DEEP PRI-40s, SPACING PER SUPPLIER. RIM BOARD TO BE 1"x14" VERSA-LAM 1.4 1800, U.N.O.

### KEYNOTES:

1 IF WOOD FLOOR BELOW, CONNECT STUD AT END OF BRACED WALL PANEL TO FRAMING BELOW WITH A 30" LONG SIMPSON CS20 COIL STRAP WITH MIN 8-10d NAILS EACH END.

IF SLAB FOUNDATION BELOW, CONNECT STUD TO FOUNDATION W/SIMPSON DTT1Z W/SIMPSON 3/8".6" TITEN HD SCREW ANCHOR AND 3½" MINIMUM EMBEDMENT.

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

Second Floor Framing Plans Elevation C & Option

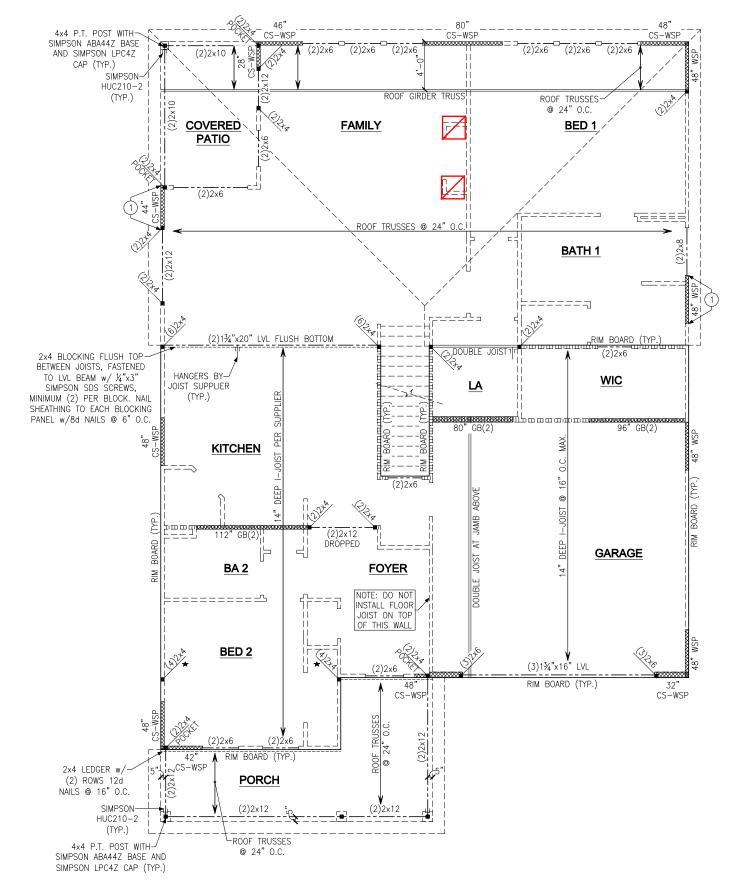
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S 4 C



SECOND FLOOR FRAMING PLAN ELEVATION C





OPT. BEDROOM 5

**LEGEND** 

PROVIDE SOLID BLOCKING

WITHIN FLOOR SYSTEM TO
MATCH POST SIZE ABOVE.

48" WSP

⇒ BEARING WALL ABOVE ⇒ INTERIOR BEARING WALL ⇒ 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' NOMINAL WALL PLATE HEIGHT

Elevation 'Hartwell' Roof Project #: 088-22010
Designed By: JPS
Checked By:
Issue Date: 6/23/22

Plan

Framing

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Re-Issue: 10/30/23 Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

S 5



**LOFT** 

 $\frac{(2)2x6}{(2)2x6}$ 

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ROOF TRUSS
VALLEY SET
(TYP.)

**WIC** 

r (2)2x8 r FLUSH r FLUSH r BOTTOM

112" GB(1)

BA 3

ROOF GIRDER TRUSS ROOF TRUSSES @ 24" O.C.

BED 3

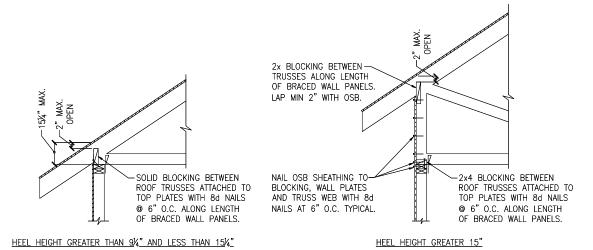
\_\_42"\_WSP\_

HANGERS BY— TRUSS SUPPLIER (TYP.)

BED 4

-LSL/LVL BLOCKING ALONG

CONTINUOUS RIM



(D) TYPICAL EXTERIOR CORNER WALL FRAMING

-CONTINUOUS RIM LOCATE JOIST

-8d TOENAILS AT 6" O.C. ALONG BRACED

WALL PANEL

-BRACED WALL

←(3)16d NAILS AT

16" O.C. ALONG

*....* 

-CONTINUOUS RIM

BRACED WALL PANELS PARALLEL TO I-JOISTS

**EXTERIOR** 

INSIDE CORNER PLAN VIEW

SHEATHING -

BOARD

GYPSUM BOARD-

16d NAIL

EXTERIOR -

SHEATHING

@ 12" O.C.

BRACED WALL PANEL

PANEL

ON WALL-

2x4 CLEAT WITH (2)10d NAILS AT CHORDS AND

(4)10d NAILS AT

BLOCKING (TYP.) -7

(3)8d TOENAILS

AT 16" O.C. ALONG BRACED

WALL PANEL

-BRACED WALL

-(3)16d NAILS AT

16" O.C. ALONG

-LOCATE JOIST

8d NAIL @ 6" O.C. AT ALL EDGES AND 12" O.C. TYPICAL

AT ALL OTHER

MEMBERS

V16d NAII

OUTSIDE CORNER PLAN VIEW

@ 12" O.C.

-GYPSUM BOARD

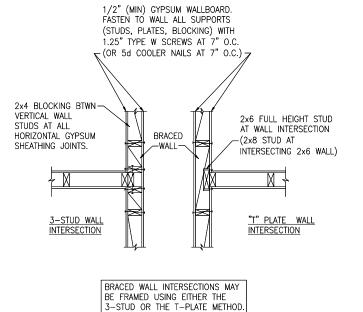
BELOW WALL

BRACED WALL PANEL

PANEL

-LSL/LVL BLOCKING

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



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





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Details Wall Braced

'Hartwell'

 $\frac{1}{2}$ 

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



2x FULL HEIGHT —SHEAR WALL, SEE SCHEDULE AND STUD W/ 16d NAILS @ 6" O.C.-PLANS FOR LOCATION (2)2x FULL HEIGHT -STUD W/ 10d NAILS @ 6" O.C. EACH PLY

(B)TYPICAL HOLD DOWN DETAIL

-HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET, SEE PLANS FOR TYPE AND LOCATION.

STRAP, SEE PLANS-

HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE

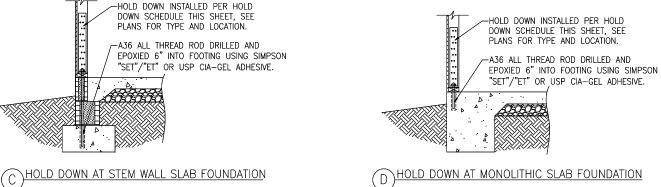
THIS SHEET, SEE

PLANS FOR TYPE

AND LOCATION.

FOR TYPE AND

LOCATION.



# A TYPICAL HOLD DOWN DETAIL

(2) 2x FULL HEIGHT

STUD W/ 10d NAILS

@ 6" O.C. EACH PLY

2x FULL HEIGHT STUDS

W/ 16d NAILS @ 6" O.C.

-HOLD DOWN INSTALLED PER HOLD DOWN SCHEDULE THIS SHEET, SEE PLANS FOR TYPE AND LOCATION.

-A36 ALL THREAD ROD DRILLED

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

(E)HOLD DOWN AT CRAWL SPACE FOUNDATION

AND EPOXIED 6" INTO FOOTING

SHEAR WALL, SEE SCHEDULE AND

AND LOCATION.

A36 ALL THREAD ROD-

SIMPSON CNW1/2

COUPLER NUT

OR USP CNW12-ZP

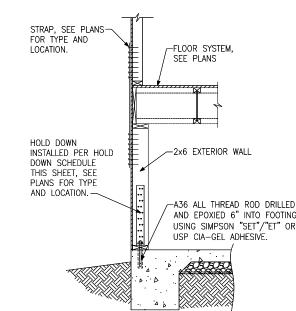
GROUT CMU SOLID AT ALL THREAD ROD-

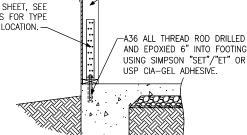
PLANS FOR LOCATION

HOLD DOWN INSTALLED PER-

HOLD DOWN SCHEDULE THIS

SHEET, SEE PLANS FOR TYPE





HOLD DOWN AT BASEMENT FOUNDATION

, A C C C C G HOLD DOWN AT BASEMENT FOUNDATION

-FLOOR SYSTEM,

—2x6 EXTERIOR WALL

A36 ALL THREAD ROD DRILLED

AND EPOXIED 6" INTO FOOTING

USING SIMPSON "SET"/"ET" OR

USP CIA-GEL ADHESIVE.

SEE PLANS

HOLD DOWN SCHEDULE					
HOLD DOWN SIMPSON USP		ALL THREAD ROD	FASTENERS		
LTTP2	LTS20B	½" DIA.	(12)10dx1½" LONG NAILS		
HTT4	HTT16	%" DIA.	(18)16dx2½" LONG NAILS		
НТТ5	HTT45	%" DIA.	(26)16dx2½" LONG NAILS		



Detail

Down

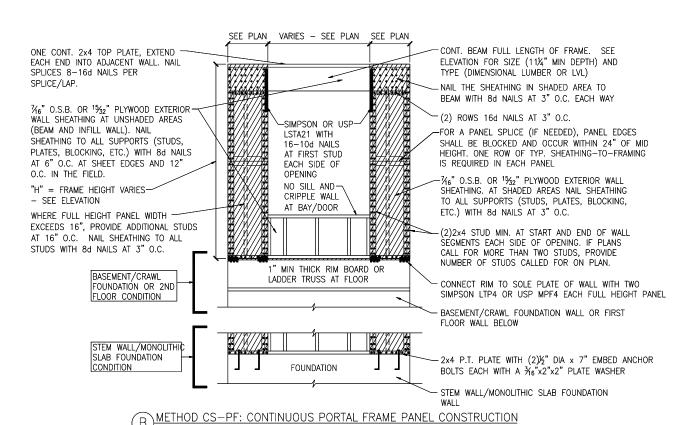
Hold

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'Hartwell'

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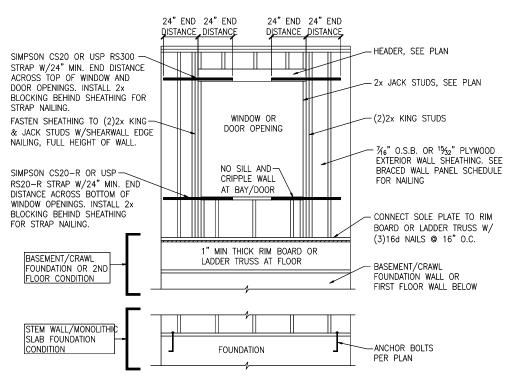


TWO BRACED WALL SEGMENTS

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. 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. AT INTERMEDIATE SUPPORTS. <u>ENGINEERED ALTERNATIVE</u> : 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:

- 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.
- SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH  $\frac{1}{16}$ " O.S.B., OR  $\frac{15}{22}$ " PLYWOOD, FASTENED PER NCRC. 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



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



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Designed By: JPS

ssue Date: 6/23/22

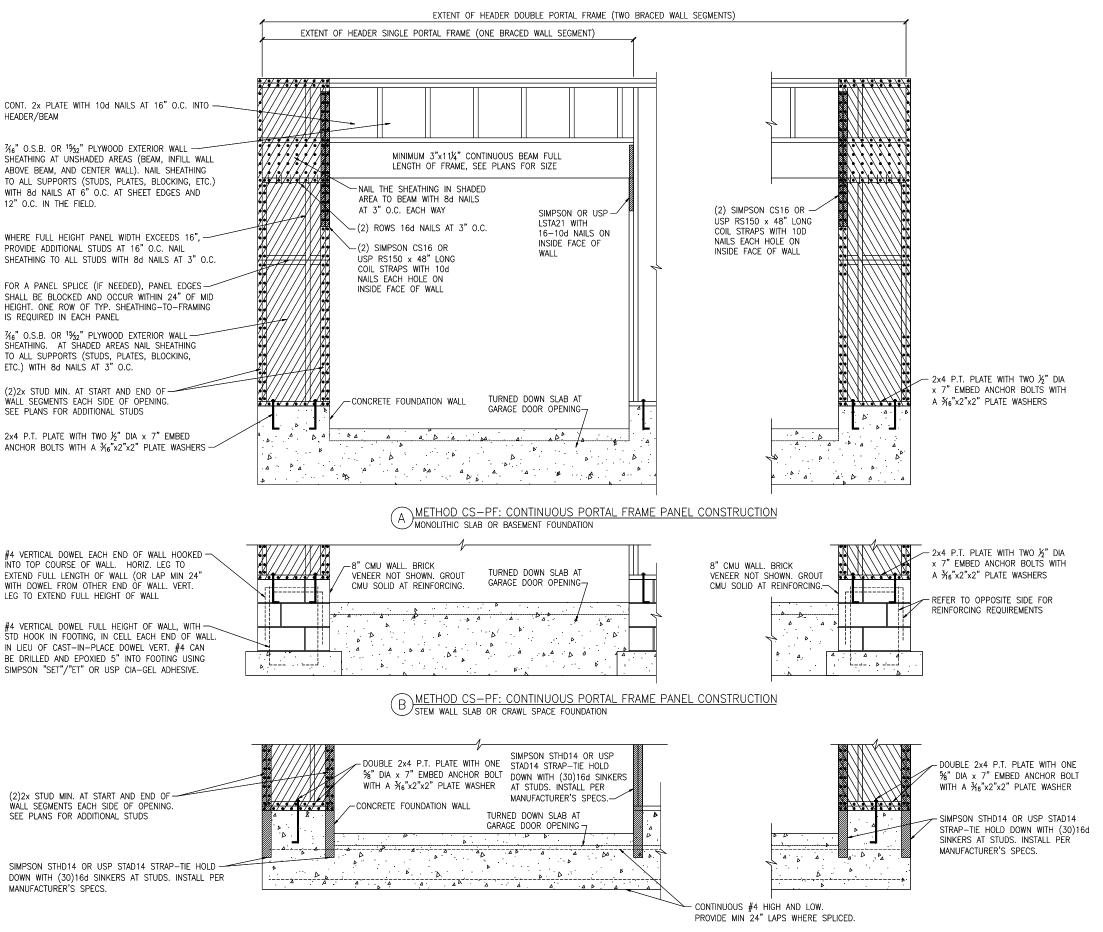
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Checked By

Carolina

М.Р.Н.

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Portal Frame Details

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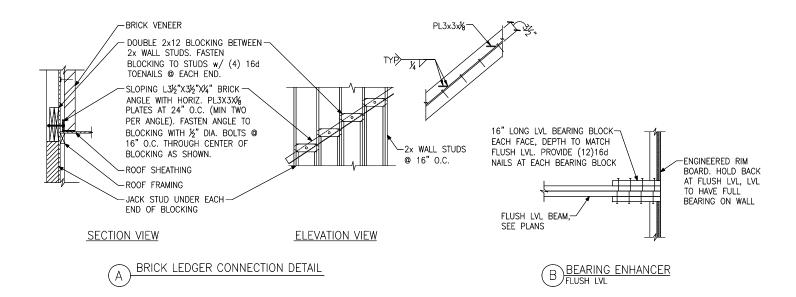
Designed By: JPS

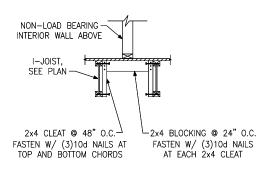
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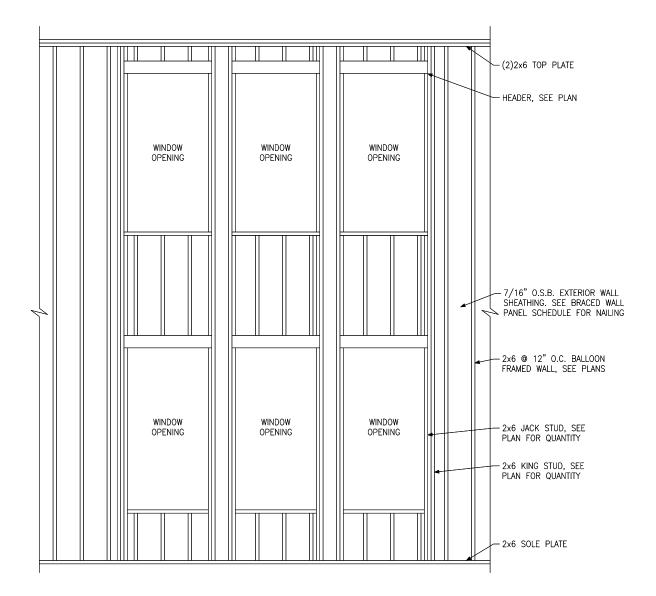
Scale: 1/8"=1'-0" @ 11x17 1/4"=1'-0" @ 22x34

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C I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS



DBALLOON FRAMED WALL DETAIL N.T.S.



Miscellaneous Framing Details

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2x4 BLOCKING BETWEEN

-WALL STUD OR GABLE TRUSS TOENAIL RAFTER TO LEDGER WITH (4) 12d NAILS -2x4 LEDGER. FASTEN TO WALL STUDS w/(2) ROWS SIMPSON SDS25600 (USP WS6) SCREWS OR SIMPSON SDS25312 (USP WS35) SCREWS @ 16" O.C. 2x4 RAFTER & CEILING JOIST, LAP AND FACE NAIL WITH (4) 12d NAILS MAXIMUM -2x4 LEDGER. FASTEN TO WALL OR GABLE TRUSS WITH (2) ROWS 12d NAILS @ 16" O.C.

EYEBROW ROOF DETAIL STRAIGHT ROOF

8d NAILS AT 6" O.C. -TRUSSES WITH SIMPSON U24 OR USP JL24 EACH END--8d NAILS AT 4" O.C. 2x4 FRAMING AT 24" O.C. SLOPING L31/2"x31/2"x1/4" BRICK CANTILEVERED OVER GABLE ANGLE WITH HORIZ. PL3x3x1/8 END TRUSS BRICK VENEER-PLATES AT 24" O.C. (MIN TWO 2x4 BLOCKING BTWN PER ANGLE. NAIL TO GIRDER TRUSS WITH 16d NAILS AT 9" RAFTERS. SIMPSON LTP4 OR USP O.C. THROUGH PRE-DRILLED 2x6 KICKER AT 6'-0" O.C., WITH-MPF4 EVERY OTHER HOLES. 2x6 "T" SCAB. NAIL SCAB TO BLOCK KICKER WITH 10d NAILS AT 6" PL3x3x1/8-O.C. KICKER MAY BE OMITTED WHEN HEIGHT OF GABLE END TRUSS IS 4'-0" OR LESS. TYP 1/4 V 7/6" OSB AT GABLE END-TRUSS, PER SHEAR WALL EDGE NAILING PER SHEAR (2) SIMPSON GBC OR ROOF TRUSSES AT WALL SCHEDULE PER SHEAR ÙŚP HC520 EACH KICKER 24" O.C WALL ABOVE (6" O.C. AT ROOF GIRDER TRUSS TO NON-SHEAR WALLS) SIMPSON A35 OR USP MPA1 SUPPORT DEAD LOAD OF SPACED PER SHEAR WALL BRICK, SEE PLAN ¾6" OSB WALL BELOW ENTIRE GABLE END SHEATHING (E) GABLE END WALL DETAIL TRUSS DETAIL

2x WALL

SEE PLAN -

STUDS,

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Detail Framing Miscellaneous

М.Р.Н. lartwell'

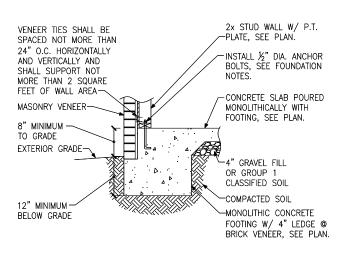
Carolina

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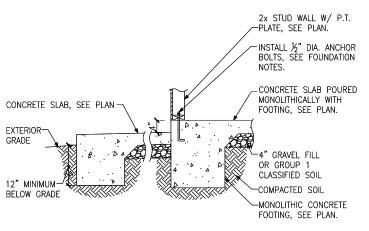
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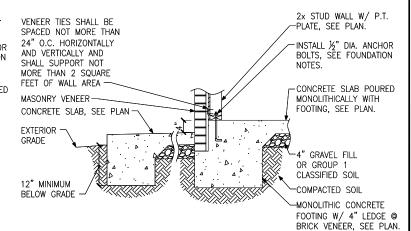




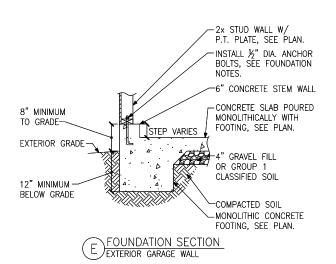
FOUNDATION SECTION EXTERIOR WALL @ MASONRY VENEER

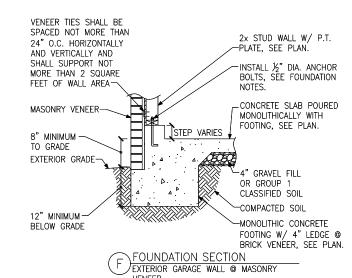


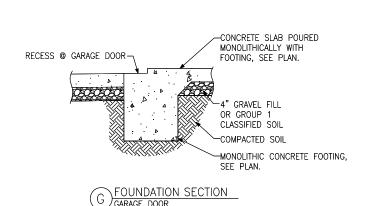
FOUNDATION SECTION EXTERIOR WALL AT PORCH

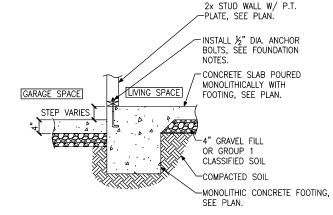


FOUNDATION SECTION EXTERIOR WALL AT PORCH W/ MASONRY **VENEER** 

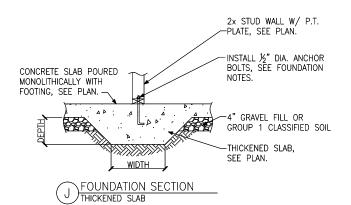


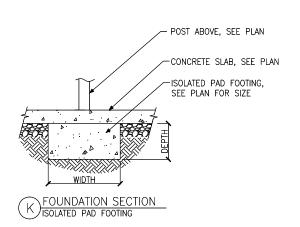






FOUNDATION SECTION







Foundation Slab Monolithic

Detail

Carolina lartwell' Project #: 088-22010

X

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