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PLAN 4

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I.I D 2 D 3 D 3.I D 4 MS D 4 BS D 5 D	FRONT AND REAR ELEVATION 'D' BASEMENT ROOF PLAN 'D' SIDE AND REAR ELEVATIONS 'D' SIDE BASEMENT ELEVATIONS 'D' MONOLITHIC SLAB PLAN 'D' BASEMENT PLAN 'D' IST FLOOR PLAN 'D'		
5.I 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.

Eagle Creek Lot 89 341 Delmoor Drive Fuquay Varina, NC 27526

ELEVATION 'E' BASEMENT

'F'

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BPLAN 'E'

ELEVATION 'F' BASEMENT

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Norman 50' SERIES North Carolina Version

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PLAN ·	4 SQUARE	FOOTAGES
A	ELEV 'D'	
	1452 SF	
	1810 SF	
1	3262 SF	
	427 SF	
	172 SF	
D PATIO	120 SF	
NT		
PACE	1374 SF	
AREA IS TA	KEN TO INSIDE (OF CONCRETE WALL**

AREA

Ist FLOOR

2nd FLOOR

GARAGE

PORCH

TOTAL LIVING

OPT. COVERE

OPT. BASEMEN

UNFINISHED SP

**BASEMENT

GENERAL NOTES DESIGNER: NCRC

THESE DOCUMENTS ARE THE PROPERTY OF THE DESIGNER AND SHALL NOT BE COPIE 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 DIMENSIONS. 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.

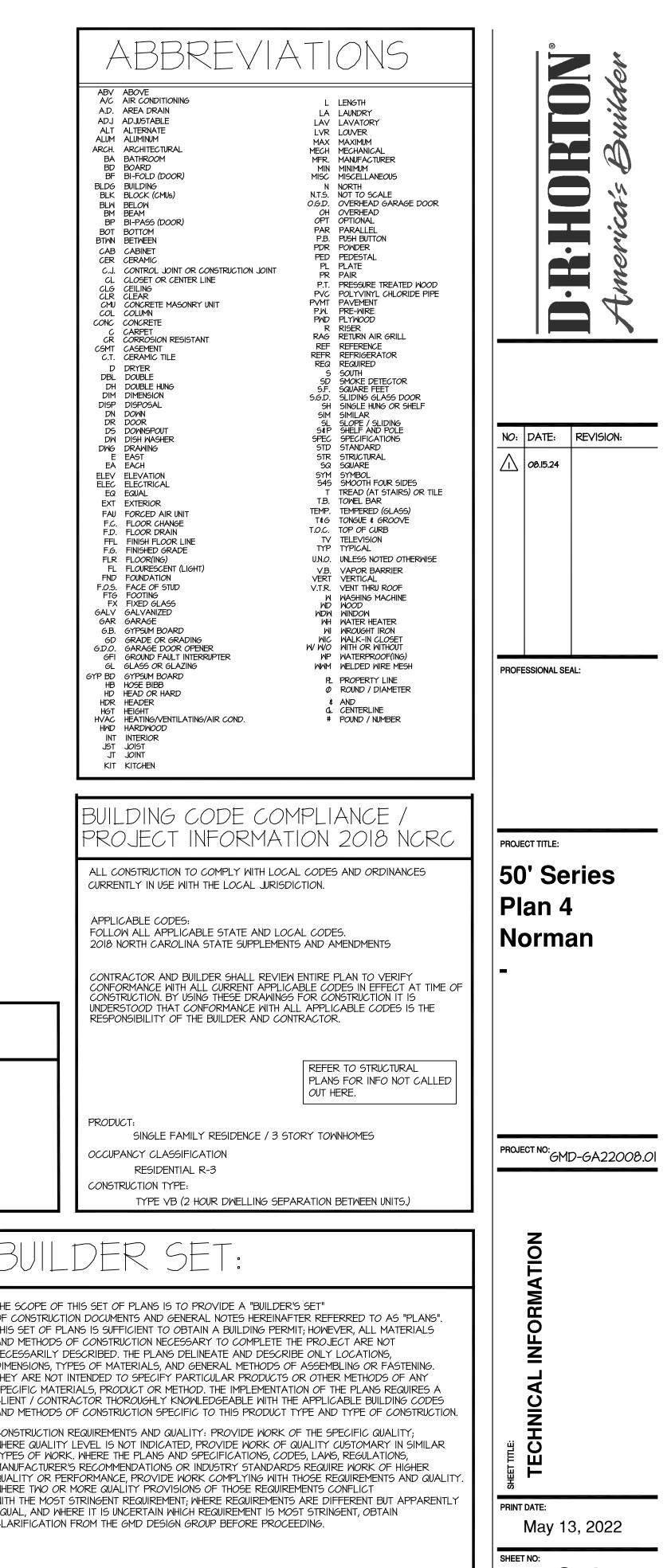
ALL OR EQUAL SUBSTITUTIONS MUST BE SUBMITTED TO AND APPROVED BY CITY BUILDING OFFICIAL PRIOR TO INSTALLATION.

ALL ANGLED PARTITIONS ARE 45 DEGREES UNLESS OTHERWISE NOTED. PROVIDE FIREBLOCKING. (PER NCRC SECTION R302.11)

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

CONSULTANTS: LOCAL JURISDICTION: BUILDER: DESIGNER: GMD DESIGN GROUP 1845 SATELLITE BLVD. STE 850 SUWANEE, GA. 30091 PHONE: (170) 375-7351 CONTACT: DONALD J. MCGRATH EMAIL: DONNIE@GMDDESIGNGROUP.COM

1ED, ≣D	PROVIDE BLOCKING AND/OR BACKING AT ALL TOWEL BAR, TOWEL RING AND/OR TOILET PAPER HOLDER LOCATIONS, AS SHOWN PER PLAN. TYPICAL AT ALL BATHROOMS AND POWDER ROOMS. VERIFY LOCATIONS AT FRAMING WALK.	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
	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.	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 THE CRITERIA.
)	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.	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
	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.	AND GOVERNING REGULATIONS. PROVIDE AN APPROVED WASHER DRAIN PAN AT SECOND FLOOR ONLY THAT DRAINS TO EXTERIOR.
	DEVIATIONS FROM THESE DOCUMENTS IN THE CONSTRUCTION PHASE SHALL BE REVIEWED BY THE DESIGNER AND THE OWNER PRIOR TO THE START OF WORK IN	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)
	QUESTION. ANY DEVIATIONS FROM THESE DOCUMENTS WITHOUT PRIOR REVIEW, SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.	ALL HANDRAIL BALLUSTERS TO BE SPACED SUCH THAT A 4" SPHERE CANNOT PASS BETWEEN BALLUSTERS. (PER LOCAL CODES)
	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.	PROVIDE STAIR HANDRAILS AND GUARDRAILS (PER LOCAL CODES)



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NOTES: NCRC
 NOTES: NCRC GRADE CONDITIONS MAY VARY FOR INDIVIDUAL SITE FROM THAT SHOWN. BUILDER SHALL VERIFY AND COORDINATE PER ACTUAL SITE CONDITIONS. WINDOW HEAD HEIGHTS: IST FLOOR = 8'-0" U.N.O. ON ELEVATIONS. 2ND FLOOR = 7'-0" U.N.O. ON ELEVATIONS. 3RD FLOOR = 7'-0" U.N.O. ON ELEVATIONS. ROOFING: PITCHED SHINGLES PER DEVELOPER. WINDOWS: MANUFACTURER PER DEVELOPER. DIVIDED LITES AS SHOWN ON THE EXT ENTRY DOOR: AS SELECTED BY DEVELOPER. GARAGE DOORS: AS SELECTED BY DEVELOPER. GARAGE DOORS: AS SELECTED BY DEVELOPER, RAISED PANEL AS SHOWN. CHIMNEY AS OCCURS: TOP OF CHIMNEYS TO BE A MINIMUM OF 24" ABOVE ANY ROW WITHIN 10'-0" OF CHIMNEY. ALL EXTERIOR MATERIALS TO BE INSTALLED PER MANUFACTURER'S WRITTEN INSTR PROTECTION AGAINST DECAY: (ALL PORTIONS OF A PORCH, SCREEN PORCH OR DECK FROM THE BOTTOM OF THE HEADER DOWN, INCLUDING POST, RAILS, PICKETS, STEPS AND FLOOR STRUCTUR SHINGLED ROOF PITCHES FROM 2/12 TO 4/12 TO HAVE (2) LAYERS OF UNDERLAYM APPLIED AND OVERLAPPED PER TABLE R405.1.1(2)
KEY NOTES:
MASONRY: I ADHERED STONE VENEER AS SELECTED BY DEVELOPER. HEIGHT AS NOTED. I MASONRY FULL BRICK AS SELECTED BY DEVELOPER. HEIGHT AS NOTED. I MASONRY FULL STONE AS SELECTED BY DEVELOPER. HEIGHT AS NOTED. I MASONRY FULL STONE AS SELECTED BY DEVELOPER. HEIGHT AS NOTED. I MASONRY FULL STONE AS SELECTED BY DEVELOPER. HEIGHT AS NOTED. I B" SOLDIER COURSE. I ROWLOCK COURSE I DECORATIVE KEY. SEE DETAIL. TYPICALS. TORROSION RESISTANT SCREEN LOUVERED VENTS, SIZE AS NOTED. I CORROSION RESISTANT SCREEN LOUVERED VENTS, SIZE AS NOTED. I CORROSION RESISTANT SCREEN LOUVERED VENTS, SIZE AS NOTED. I CORROSION RESISTANT ROOF TO WALL FLASHING. CODE COMPLIANT FLASHING PER NERC R405.2.8.3 II DECORATIVE WROUGHT IRON. SEE DETAILS. SIDING: SIDING PER NERC R405.2.8.3 II DECORATIVE WROUGHT IRON. SEE DETAILS. SIDING: SIDING PER DEVELOPER W S/4x4 CORNER TRIM BOARDS. II FIBER CEMENT HAKE SIDING PER DEVELOPER W S/4x4 CORNER TRIM BOARDS. II FIBER CEMENT PANEL SIDING WI IX3 BATTS AT I2" O.C. (VINTL BOARD AND BATT SIDIN
ALL WINDOWS WHOSE OPENING IS LESS THAN 24" ABOVE THE FINISH FLOOR AND WHOSE OPENING IS GREATER THAN 72" ABOVE THE OUTSIDE WALKING SURFACE MUST HAVE WINDOW OPENING LIMITING DEVICES COMPLYING WITH THE NCRC SECTION R312.2.1 AND R312.2.2.

XTERIOR ELEVATIONS

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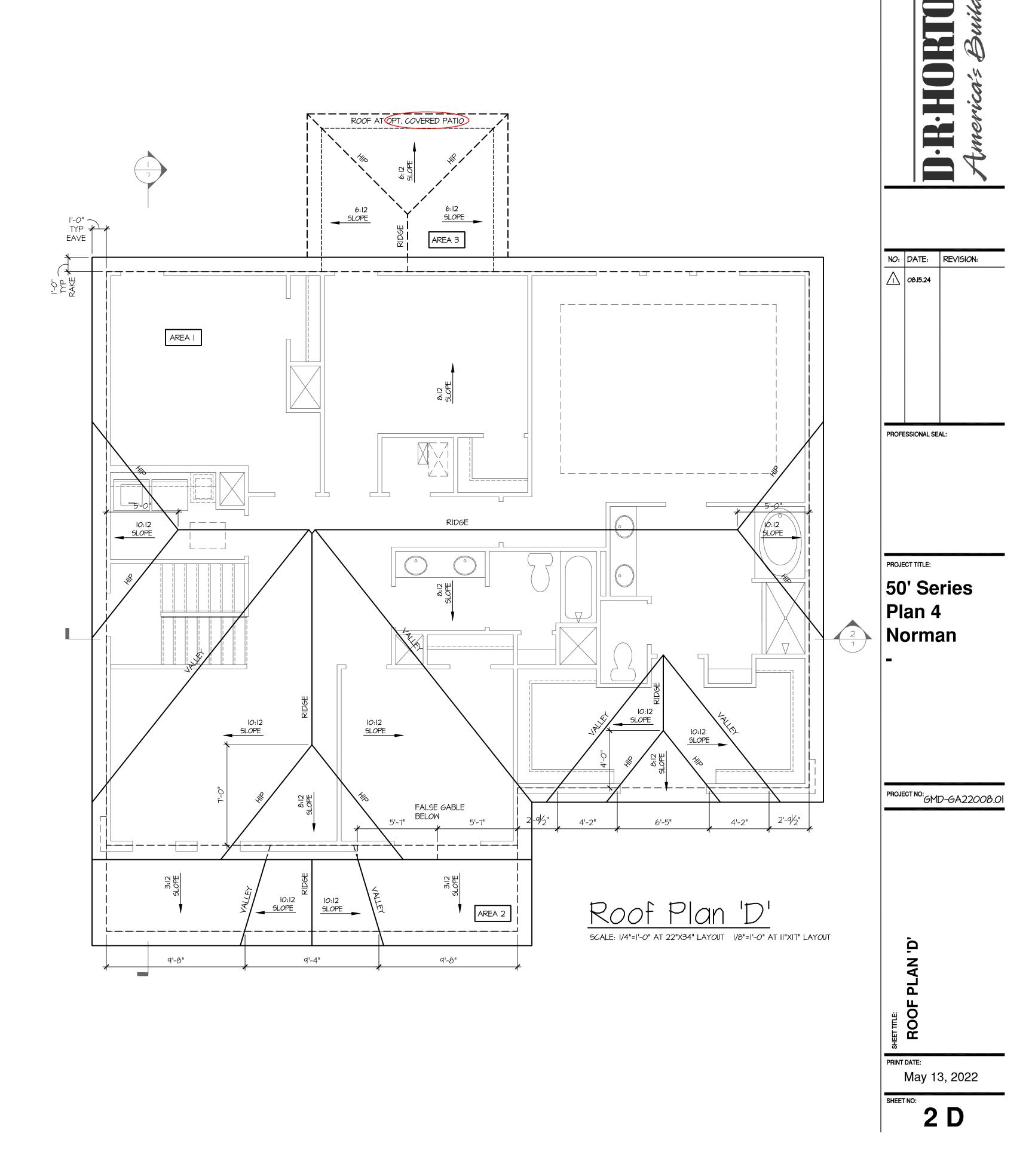
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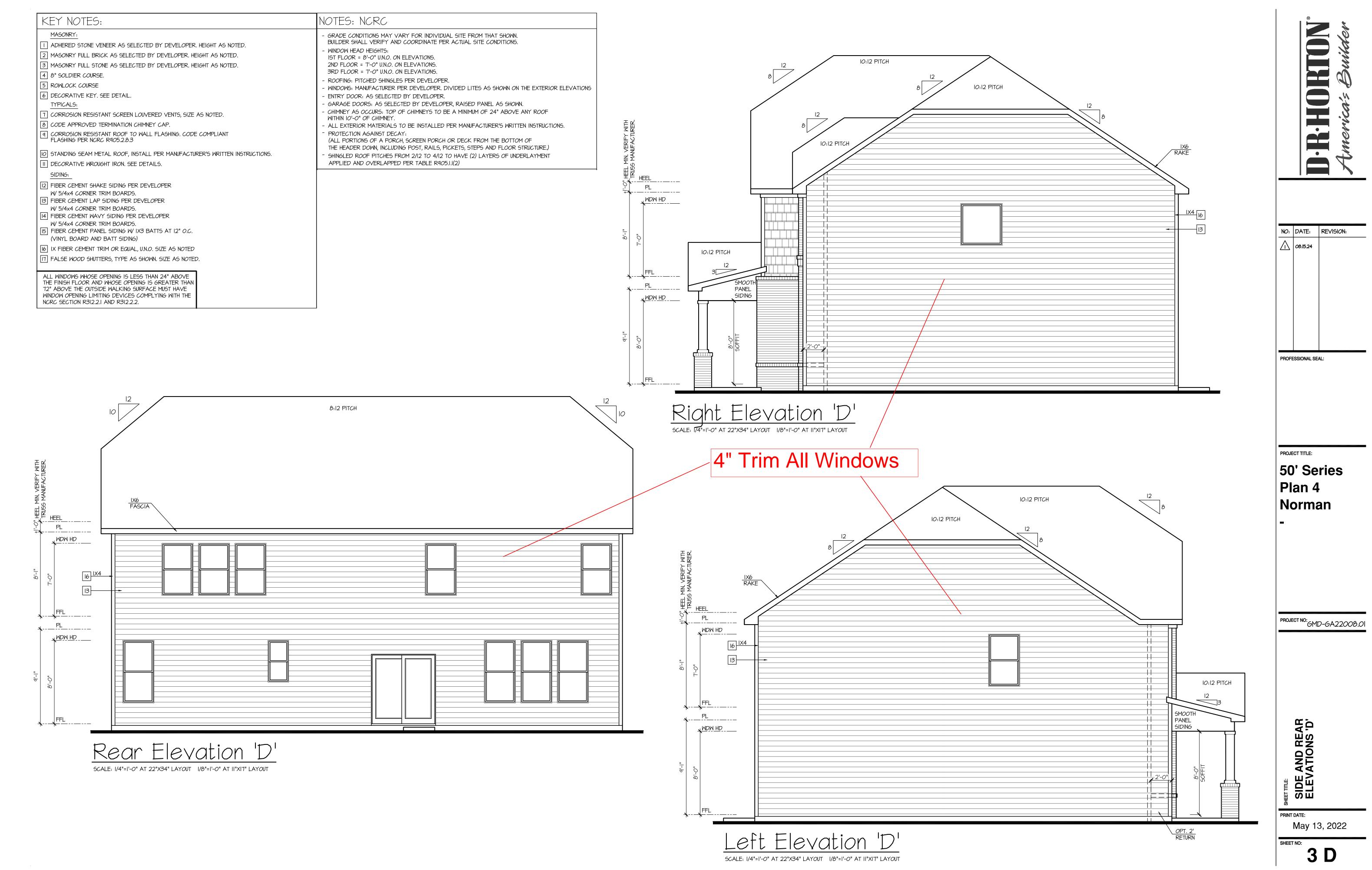
SCALE: I/4"=I'-0" AT 22"X34" LAYOUT I/8"=I'-0" AT II"XI7" LAYOUT

ATTIC VENT CALCULATION	I FOR PLAN '4': 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	(PER SECTION R806.2) I SQUARE INCH VENT FOR EVERY ISO SQUARE INCHES OF CEILING *144 SQ. IN. = I SQ. FT. BLDG. CEILING (SF) X 144 = BLDG (SQ. IN.) BLDG. (SQ. IN.) / ISO = SQ. IN. OF VENT REQUIRED ROOF AREA I:= 1879 SF 1879 SQ. FT. X 144 = 270576 SQ. IN.
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)	270576 SQ. IN. / ISO = I803.84 SQ. IN. OF VENT REQ'D ROOF AREA 2:= I72 SF I72 SQ. FT. X I44 = 24768 SQ. IN. 24768 SQ. IN. / ISO = I65.12 SQ. IN. OF VENT REQ'D ROOF AREA 3:= I20 SF I20 SQ. FT. X I44 = I7280 SQ. IN. I7280 SQ. IN. / ISO = II5.20 SQ. IN. OF VENT REQ'D
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 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.
NOTES:	
 ALL ROOF DRAINAGE SHALL BE PIPED TO STREET OR APPROVED DRAINAGE FACILITY. DASHED LINES INDICATE WALL BELOW. LOCATE GUTTER AND DOWNSPOUTS PER BUILDER. PITCHED ROOFS AS NOTED. 	 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.
	I FOR PLAN '4': 1:300 RATIO.
AS AN ALTERNATE TO THE I/I50 RATIO LISTED ABOVE, THE NET FREE CROSS-VENTILATION AREA MAY BE REDUCED TO I/300 PER SECTION R806.2	(PER SECTION R&O6.2) I SQUARE INCH VENT FOR EVERY 300 SQUARE INCHES OF CEILING *144 SQ. IN. = I SQ. FT. BLDG. CEILING (SF) X 144 = BLDG (SQ. IN.)
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.	BLDG. (SQ. IN.) / 300 = SQ. IN. OF VENT REQUIRED SQ. IN. OF VENT REQUIRED / 2 = 50% AT HIGH & 50% AT LOW. ROOF AREA I: = 1879 SF 1879 SQ. FT. X 144 = 270576 SQ. IN. 270576 SQ. FT. / 300 = 901.92 SQ. IN. OF VENT REQ'D 901.92 SQ. IN. / 2 = 450.96 SQ. IN. 450.96 SQ. IN. OF VENT AT HIGH & 450.96 SQ. IN. OF VENT AT LOW REQUIRED.
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	ROOF AREA 2: = I72 SF I72 SQ. FT. X 144 = 24768 SQ. IN. 24768 SQ. FT. / 300 = 82.56 SQ. IN. OF VENT REQ'D 82.56 SQ. IN. / 2 = 41.28 SQ. IN. 41.28 SQ. IN. OF VENT AT HIGH & 41.28 SQ. IN. OF VENT AT LOW REQUIRED.
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.	ROOF AREA 3: = 120 SF 120 SQ. FT. X 144 = 17280 SQ. IN. 17280 SQ. FT. / 300 = 57.60 SQ. IN. OF VENT REQ'D 57.60 SQ. IN. / 2 = 28.80 SQ. IN. 28.80 SQ. IN. OF VENT AT HIGH & 28.80 SQ. IN. OF VENT AT LOW REQUIRED.
BUILDER TO PROVIDE (2) LAYERS OF UNDERLAYMENT AT ANY ROOF W A SLOPE FROM 2:12 TO LESS THAN 4:12	BUILDER TO PROVIDE ATTIC VENTING MINIMUM AREA PER LOCAL CODE WITH THE AMOUNT/NUMBER VENTS

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.



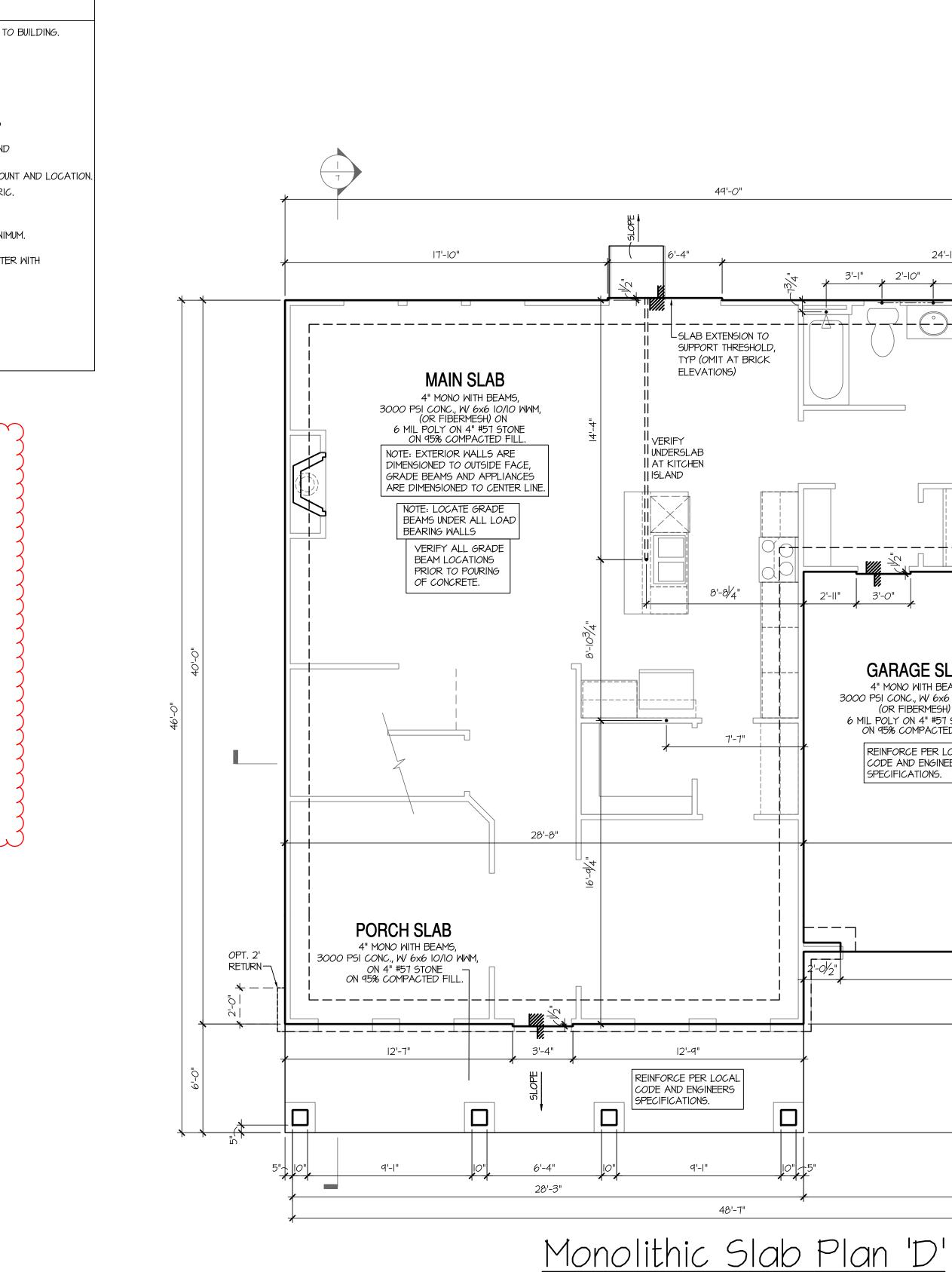
KEY NOTES:	NOTES: NCRC
 MASONRY: ADHERED STONE VENEER AS SELECTED BY DEVELOPER. HEIGHT AS NOTED. MASONRY FULL BRICK AS SELECTED BY DEVELOPER. HEIGHT AS NOTED. MASONRY FULL STONE AS SELECTED BY DEVELOPER. HEIGHT AS NOTED. & "SOLDIER COURSE. ROWLOCK COURSE DECORATIVE KEY. SEE DETAIL. TYPICALS: CORROSION RESISTANT SCREEN LOUVERED VENTS, SIZE AS NOTED. CODE APPROVED TERMINATION CHIMNEY CAP. CORROSION RESISTANT ROOF TO WALL FLASHING. CODE COMPLIANT FLASHING PER NCRC R905.2.8.3 STANDING SEAM METAL ROOF, INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTION DECORATIVE WROUGHT IRON. SEE DETAILS. SIDING: FIBER CEMENT SHAKE SIDING PER DEVELOPER W 5/4x4 CORNER TRIM BOARDS. FIBER CEMENT LAP SIDING PER DEVELOPER W 5/4x4 CORNER TRIM BOARDS. FIBER CEMENT HAVY SIDING PER DEVELOPER W 5/4x4 CORNER TRIM BOARDS. FIBER CEMENT HANDY SIDING PER DEVELOPER W 5/4x4 CORNER TRIM BOARDS. FIBER CEMENT HANTY SIDING PER DEVELOPER W 5/4x4 CORNER TRIM BOARDS. FIBER CEMENT HANTY SIDING WIX3 BATTS AT 12" O.C. (VINTL BOARD AND BATT SIDING) X FIBER CEMENT TRIM OR EQUAL, UN.O. SIZE AS NOTED FIBER CEMENT TRIM OR EQUAL, UN.O. SIZE AS NOTED FIBER CEMENT TRIM OR EQUAL, UN.O. SIZE AS NOTED K FIBER CEMENT TRIM OR EQUAL, UN.O. SIZE AS NOTED K FIBER CEMENT TRIM OR EQUAL, UN.O. SIZE AS NOTED K FIBER COMENT TRIM OR EQUAL, UN.O. SIZE AS NOTED K FIBER COMENT TRIM OR EQUAL, UN.O. SIZE AS NOTED K FIBER COMENT TRIM OR EQUAL, UN.O. SIZE AS NOTED 	 GRADE CONDITIONS MAY VARY FOR INDIVIDUAL SITE FROM TH BUILDER SHALL VERIFY AND COORDINATE PER ACTUAL SITE CO. MINDOW HEAD HEIGHTS: IST FLOOR = 1'-O" U.N.O. ON ELEVATIONS. 3RD FLOOR = 1'-O" U.N.O. ON ELEVATIONS. ROOFING: PITCHED SHINGLES PER DEVELOPER. MINDOWS: MANUFACTURER PER DEVELOPER. DIVIDED LITES AS ENTRY DOOR: AS SELECTED BY DEVELOPER. GARAGE DOORS: AS SELECTED BY DEVELOPER. ALL EXTERIOR MATERIALS TO BE INSTALLED PER MANUFACTUR PROTECTION AGAINST DECAY: (ALL PORTIONS OF A PORCH, SCREEN PORCH OR DECK FROM THE HEADER DOWN, INCLUDING POST, RAILS, PICKETS, STEPS AN SHINGLED ROOF PITCHES FROM 2/12 TO 4/12 TO HAVE (2) LAYE APPLIED AND OVERLAPPED PER TABLE R4051.1(2)
THE FINISH FLOOR AND WHOSE OPENING IS GREATER THAN 72" ABOVE THE OUTSIDE WALKING SURFACE MUST HAVE WINDOW OPENING LIMITING DEVICES COMPLYING WITH THE NCRC SECTION R312.2.1 AND R312.2.2.	



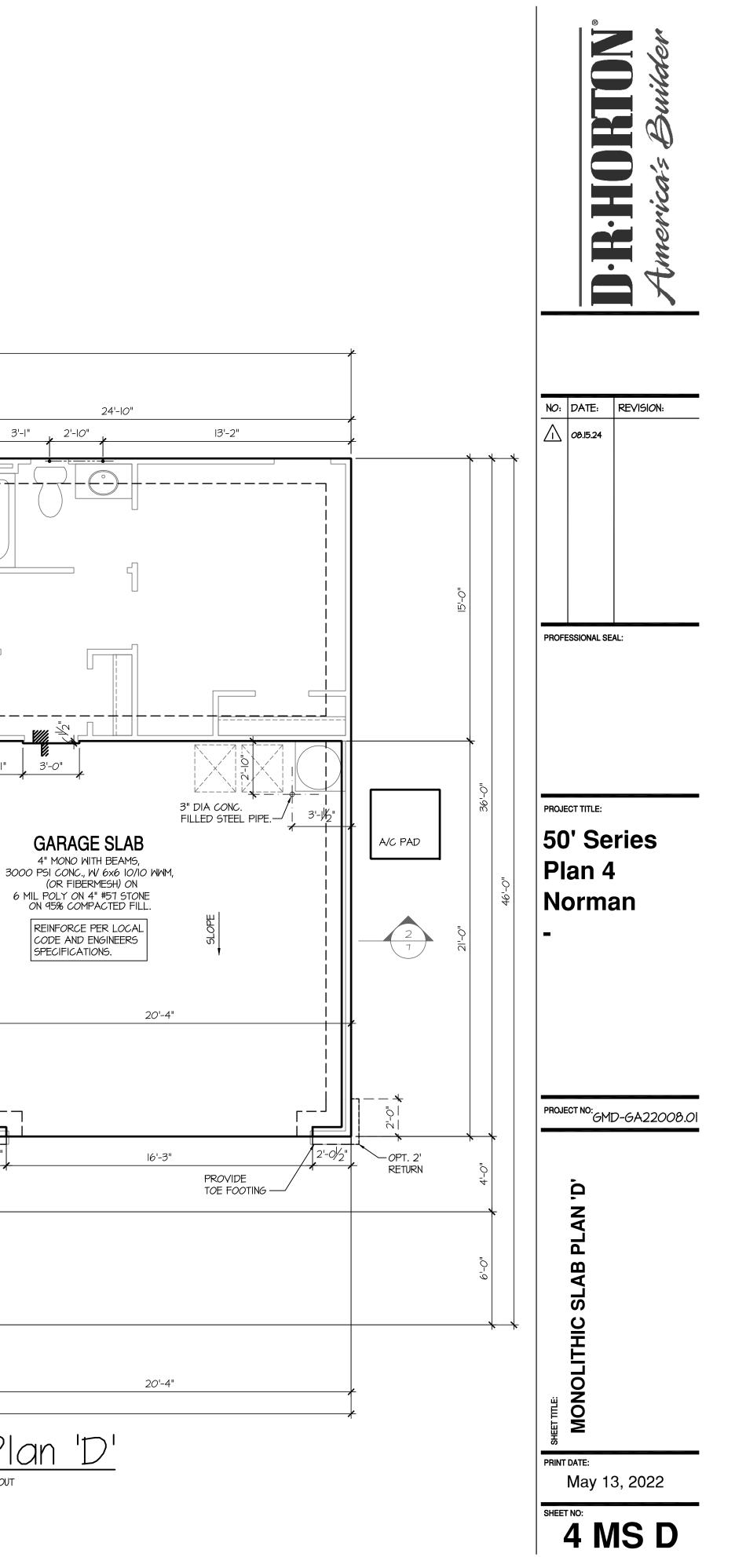
NOTES: NCRC

- 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 1/8" 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.
- SOILS TREATMENT: 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.



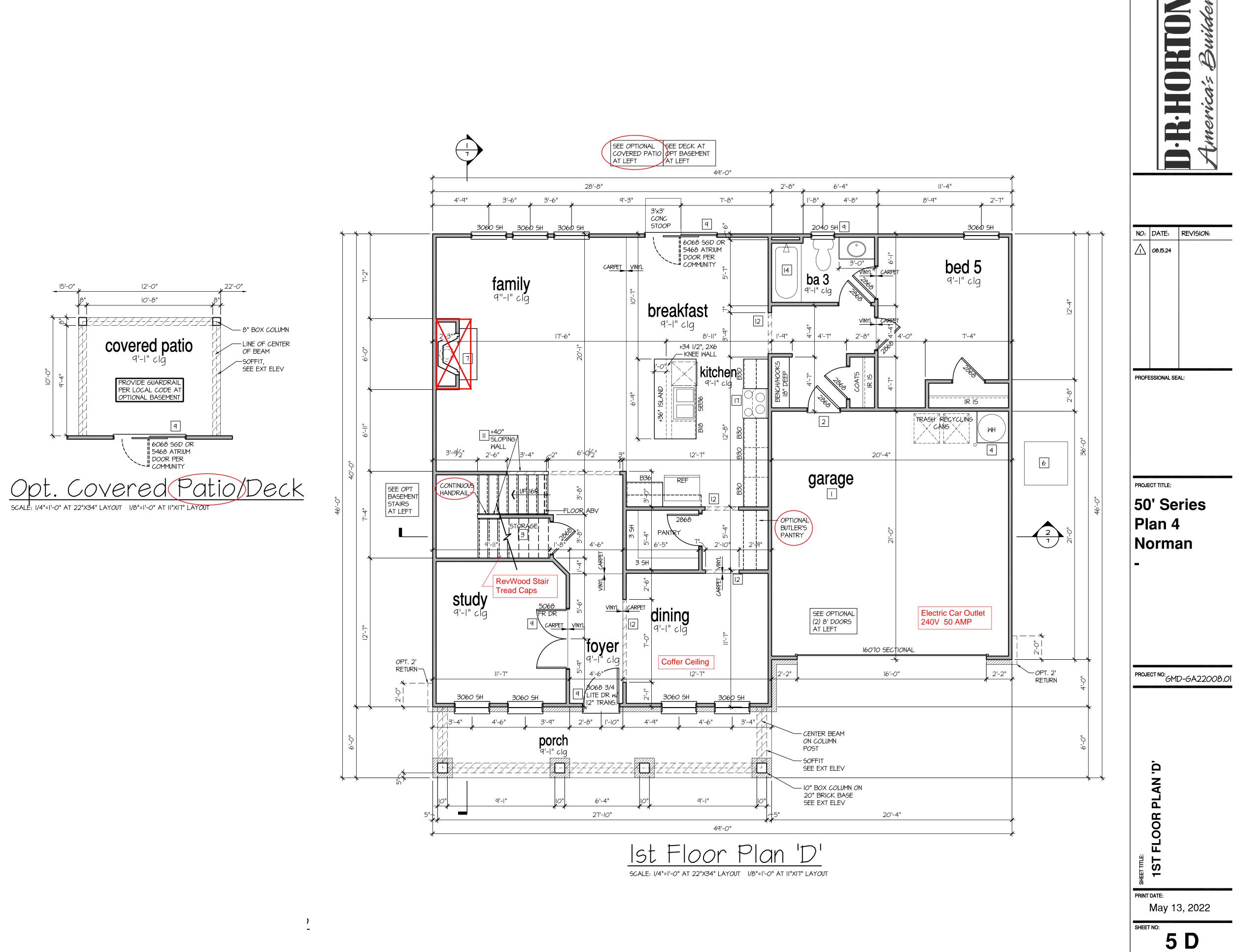


SCALE: I/4"=I'-0" AT 22"X34" LAYOUT I/8"=I'-0" AT II"XI7" LAYOUT

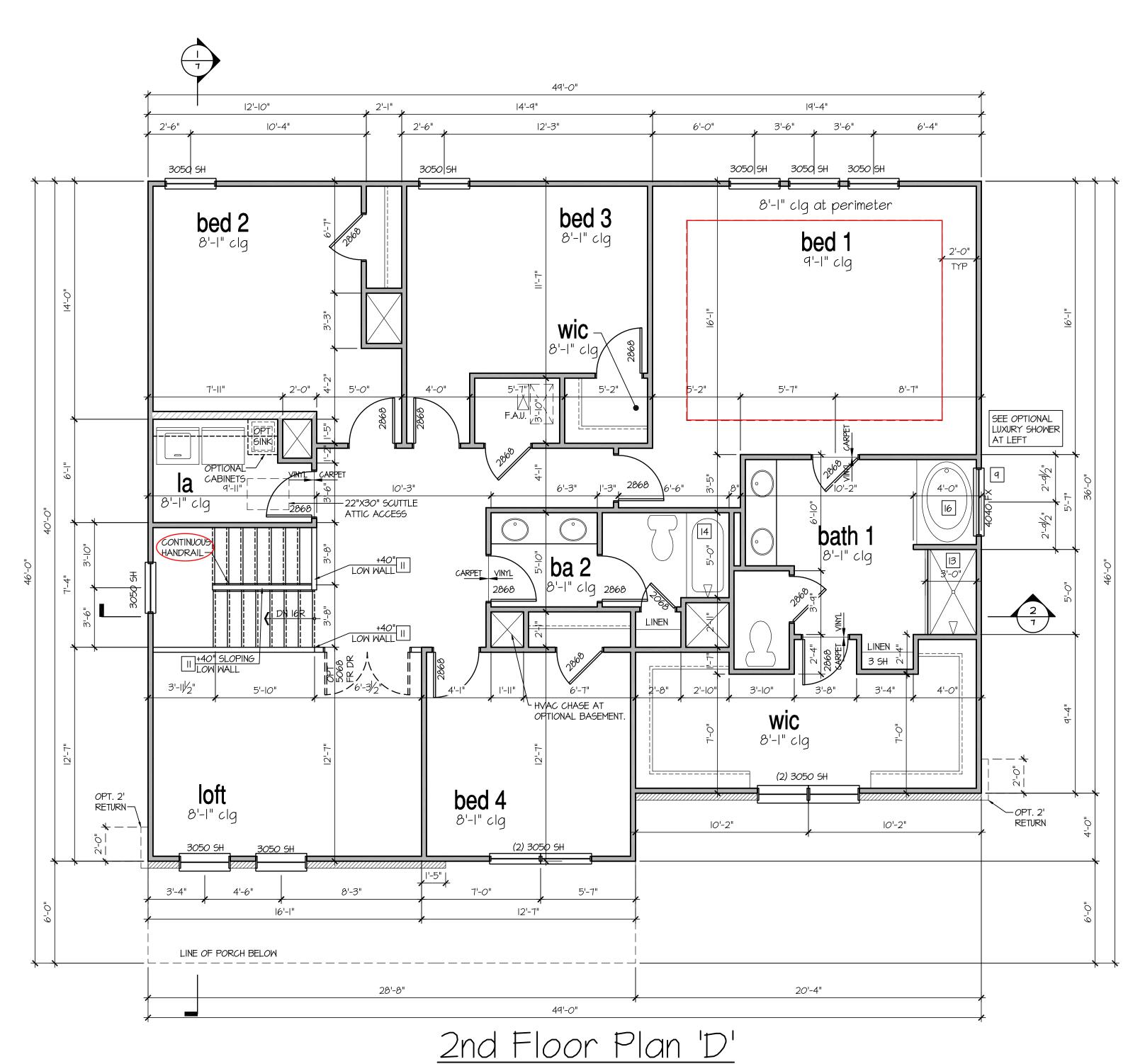


- FOR ADDITIONAL NOTES SEE GENERAL NOTES ON TITLE SHEET AND DETAILS
- WINDOW HEAD HEIGHTS: IST FLOOR = 8'-0" U.N.O. ON ELEVATIONS.
2ND FLOOR = $7'-O''$ U.N.O. ON ELEVATIONS. 3RD FLOOR = $7'-O''$ U.N.O. ON ELEVATIONS.
ALL DIMENSIONS TO WINDOWS AND DOORS ARE TO CENTERLINE.
WALL LEGEND:
FULL HEIGHT FULL 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 DRYWALL OPENING. HEIGHT HEIGHT AND STUD SIZE AS NOTED AS NOTED ON PLAN.
KEY NOTES: NCRC
FIRE PROTECTION:
LI HOUSE TO GARAGE FIRE SEPARATION. GARAGE/HOUSE SEPARATION AT VERTICAL SURFACES SHALL BE PROTECTED
WITH ONE (1) LAYER 1/2" 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)
[2] HOUSE TO GARAGE DOOR SEPARATION. PROVIDE 1-3/8" SOLID
CORE DOOR OR APPROVED 20 MINUTE RATED DOOR. (PER NCRC SECTION R302.5.1)
3 BENEATH STAIRS AND LANDINGS. 1/2" GYPSUM BOARD ON WALLS AND CEILING OF ENCLOSED ACCESSIBLE
AREAS. (PER NCRC SECTION R302.1) IN CONCEALED SPACES BETWEEN STAIR STRINGERS PROVIDE
FIREBLOCKING PER R302.II MEP'S
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) 7 PRE-FABRICATED METAL FIREPLACE.
- INSTALL PER MANUFACTURER'S MRITTEN 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-10 MINIMUM VALUE PER LOCAL CODES.
9 TEMPERED SAFETY GLASS. (PER NCRC SECTION R308.4) 10 PLYWOOD SHELF ABOVE WITH DRYWALL FINISH OVER. HEIGHT AS NOTED.
III HALF WALL, HEIGHT AS NOTED.
I INTERIOR SOFFITS: FFL = δ '-I" 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:
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 CODE 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)
I6 TREADS AT IO" EACH VERIFY I7 RISERS AT +/- 7.28" = 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

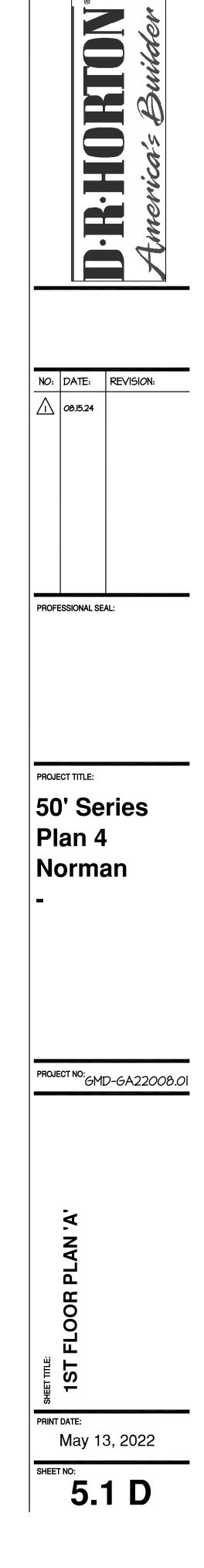
RISE VERIFY



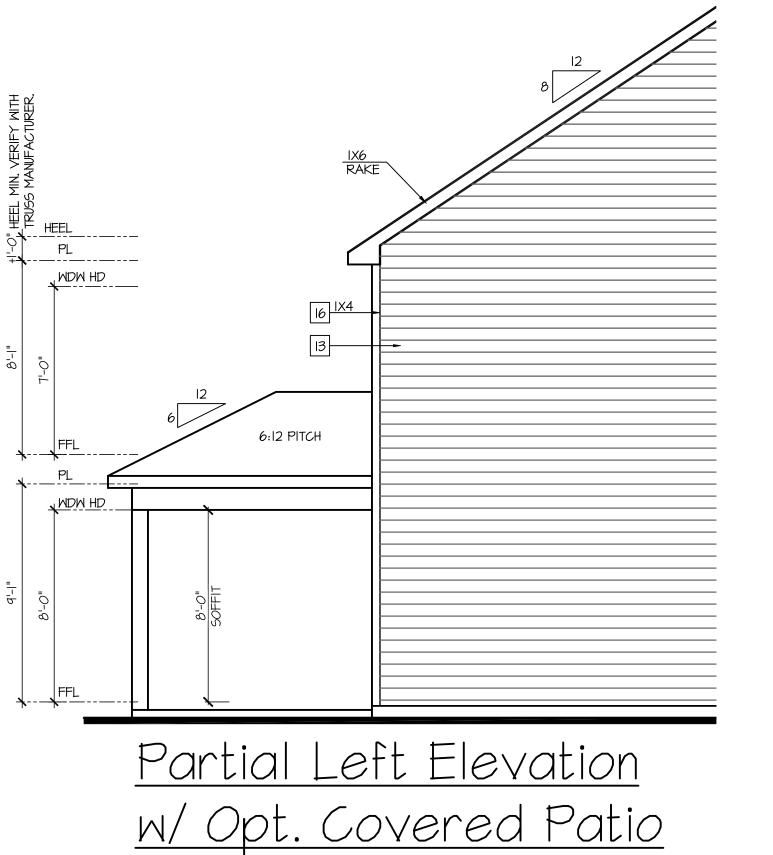
200 FLOOR = T-O'' UND ON ELEVATIONS. ALL DIMENSIONS TO WINDOWS AND DOORS ARE TO CENTERLINE. WALL LEGEND: FILL HEIGHT FILL HEIGHT <th>- WINDOW HEAD HEIGHTS:</th> <th>GENERAL NOTES ON TITLE SHEET AND DETAILS.</th>	- WINDOW HEAD HEIGHTS:	GENERAL NOTES ON TITLE SHEET AND DETAILS.	
WALL LEGEND: Fill HEGHT ZMI WOOD STUD PARTITION ZMI WOOD			
PULL HEIGHT ZZZZZZZ PULL HEIGHT ZX6 MOOD STUD PARTITION PROCK / STORE YERRER FILL HEIGHT PROCK / STORE YERRER THE UPLOT TO PARTITION PROCK / STORE YERRER SEPARATION AS MODED THE UPLOT TO PARAGE SHALL BE PROTECTED PILL THE TO GARAGE FIRE SEPARATION AS NOTED / STORE SECTION R30226) GARAGEAUSE SEPARATION AT INOTROVIDE I-STORE SOLID ATTER Y VERTICAL SUPPARED SHALL BE PROTECTED THTHE YE OF PROTECTED THIN ONE (I) LAYER Store THE PROTECTED THIN ONE (I) LAYER Store THE DECOOR GR AFRONCED 20 MINUT RSOLD I-STORE SOLID CARE DOOR GR AFRONCED 20 MINUT ROUTE I-STORE SOLID CARE DOOR GR AFRONCED 20 MINUT ROUTE I-STORE SOLID CARE DOOR GR AFRONCED 20 MINUT ROUTE I-STORE SOLID CARE DOOR GR AFRONCED 20 MINUT ROUTE I-STORE SOLID GARAGE PROCECTION R302.11 MEDRATICAL SOLID RESOLUTION RECOVERED REPORT RETER VERTICAL UPLOSE THE REPORT ROUTE MINUT RULE SOLID ROUTE I-STORE SOLID GARAGE PROCECTION R302.11 MEDRATICAL SOLID ROUTE ROUTE I-STORE SOLID GARAGE PROCECTION R302.11 MEDRATICAL SOLID ROUTE ROU	ALL DIMENSIONS TO WINDOWS	AND DOORS ARE TO CENTERLINE.	
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244 WOOD STUD PARTITION 206 WOOD STUD PARTITION 2011 Construction	FULL HEIGHT		
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RATED DOOR. (PER NCRC SECTION R3025.1) 3 BENEATH STARS AND LANDINGS. 12" GYPSIM BOARD ON HALLS AND CEILING OF ENCLOSED ACCESSIBLE AREAS. (PER NCRC SECTION R302.1) IN CONCELLED SPACES PETIMEEN STAIR STRINGERS PROVIDE FIREBLOCKING PER R302.11 MEP'S 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 AC CONDENSER PAD. (VERIFY) 1 PRE-FABRICATED METAL FIREPLACE. INSTALL PER MANUFACTURER'S KRITTEN INSTRUCTIONS. 8 ATTIC ACCESS LARGE ENOLGH TO REMOVE LARGEST PIECE OF EQUIPMENT BUT NOLESS THAN 30'X22". FIRE RATED ACCESS LARGE ENOLGH TO REMOVE LARGEST PIECE ACCESS LARGE ENOLGH TO REMOVE LARGEST PIECE ACCESS LARGE ROTOR. VERIFY ON THIS STRUCTIONS. 8 ATTIC ACCESS LARGE ROTOR. VERIFY AND SO'X2". FIRE RATED 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) 10 PLYMOOD SHELF ABOVE WITH DRYWALL FINISH OVER. HEIGHT AS NOTED. 11 HALF WALL, HEIGHT AS NOTED. 12 INTERIOR SOFFITS: FFL = 8'-I'' UNO. SFL = T'-6'' UNO. 13 HALF WALL, HEIGHT AS NOTED. 14 THAFE WANUFACTURERS BRICIES INCLOSURE. 15 GERAMIC TILE SHOWER AND FLOOR. TEMPERED GLASS ENCLOSURE. 16 CRAMIC TILE SHOWER AND PLOOR. TEMPERED GLASS ENCLOSURE. 17 DEMORE COMBO. TEMPERED GLASS ENCLOSURE. 18 CARALL TILE WOREAMIC PLATFORM KITCHEN: 11 30'' SLIDE-IN ELECTRICAL RANGE W HOOD AND MICRO ABV. VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS. 19 JANDRY CLOSETS, AN OPENING HAVING AN AREA NOT LESS THAN 10 OS ON IN SHALL BE PROVIDED IN THE LOGSET ENCLOSURE REMARKED AR SHAUL BE PROVIDED BY OTHER APPROVED MEMAN FRE LOCAL COUR 16 TREADS AT I/O' EACH VERIFY 11 RISERS AT I/O' TACH VERIFY 11 RISERS AT I/O' ZAG' TERRY WITTEN INSTRUCTIONS. 19 LALINGRY CLOSETS, AN OPENING HAVING AN AREA NOT LESS THAN 10 OS ON IN SHALL BE PROVIDED IN THE CLOSET ENCLOSURE OR MAKED	2 HOUSE TO GARAGE DOOR SI	EPARATION. PROVIDE 1-3/8" SOLID	
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 KITCHEN: 30" SLIDE-IN ELECTRICAL RANGE W/ HOOD AND MICRO ABV. VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS. 30" GAS COOKTOP AND HOOD. VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ELECTRIC OVEN WITH MICROWAVE OVEN. LAUNDRY CLOSETS, AN OPENING HAVING AN AREA NOT LESS THAN IOO SQ IN SHALL BE PROVIDED IN THE CLOSET ENCLOSURE OR MAKEUP AIR SHALL BE PROVIDED BY OTHER APPROVED MEANS PER LOCAL COD LOUVERED DOORS OR PROVIDING A TRANSFER GRILLE ABOVE THE DOO OR THE DOOR MAY BE UNDERCUT TO PROVIDE ADDITIONAL VENTILATION G'-I" STAIR NOTE: (JSE I4" TJI WITH 3/4" PLYWOOD SUBFLOOR) I6 TREADS AT IO" EACH VERIFY I7 RISERS AT +/- 7.28" = 123 3/4" TOTAL 	15 CERAMIC TILE SHOWER AND	FLOOR. TEMPERED GLASS ENCLOSURE.	
 VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS. 30" GAS COOKTOP AND HOOD. VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ELECTRIC OVEN WITH MICROWAVE OVEN. LAUNDRY CLOSETS, AN OPENING HAVING AN AREA NOT LESS THAN IOO SQ IN SHALL BE PROVIDED IN THE CLOSET ENCLOSURE OR MAKEUP AIR SHALL BE PROVIDED BY OTHER APPROVED MEANS PER LOCAL COD LOUVERED DOORS OR PROVIDING A TRANSFER GRILLE ABOVE THE DOO OR THE DOOR MAY BE UNDERCUT TO PROVIDE ADDITIONAL VENTILATION ISE I4" TJI WITH 3/4" PLYWOOD SUBFLOOR) I6 TREADS AT IO" EACH VERIFY I7 RISERS AT +/- T.28" = 123 3/4" TOTAL 		LATFORM	
 VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS. ELECTRIC OVEN WITH MICROWAVE OVEN. LAUNDRY CLOSETS, AN OPENING HAVING AN AREA NOT LESS THAN IOO SQ IN SHALL BE PROVIDED IN THE CLOSET ENCLOSURE OR MAKEUP AIR SHALL BE PROVIDED BY OTHER APPROVED MEANS PER LOCAL COD LOUVERED DOORS OR PROVIDING A TRANSFER GRILLE ABOVE THE DOO OR THE DOOR MAY BE UNDERCUT TO PROVIDE ADDITIONAL VENTILATION Q'-I" STAIR NOTE: (USE 14" TJI WITH 3/4" PLYWOOD SUBFLOOR) 16 TREADS AT IO" EACH VERIFY 17 RISERS AT +/- 1.28" = 123 3/4" TOTAL 			
 LAUNDRY CLOSETS, AN OPENING HAVING AN AREA NOT LESS THAN IOO SQ IN SHALL BE PROVIDED IN THE CLOSET ENCLOSURE OR MAKEUP AIR SHALL BE PROVIDED BY OTHER APPROVED MEANS PER LOCAL COD LOUVERED DOORS OR PROVIDING A TRANSFER GRILLE ABOVE THE DOO OR THE DOOR MAY BE UNDERCUT TO PROVIDE ADDITIONAL VENTILATION 9'-1" STAIR NOTE: (USE 14" TJI WITH 3/4" PLYWOOD SUBFLOOR) 16 TREADS AT IO" EACH VERIFY 17 RISERS AT +/- 1.28" = 123 3/4" TOTAL 			
IOO SQ IN SHALL BE PROVIDED IN THE CLOSET ENCLOSURE OR MAKEUP AIR SHALL BE PROVIDED BY OTHER APPROVED MEANS PER LOCAL COD LOUVERED DOORS OR PROVIDING A TRANSFER GRILLE ABOVE THE DOO OR THE DOOR MAY BE UNDERCUT TO PROVIDE ADDITIONAL VENTILATION 9'-1" STAIR NOTE: (USE 14" TJI WITH 3/4" PLYWOOD SUBFLOOR) 16 TREADS AT 10" EACH VERIFY 17 RISERS AT +/- 1.28" = 123 3/4" TOTAL			
(USE 14" TJI WITH 3/4" PLYWOOD SUBFLOOR) 16 TREADS AT 10" EACH VERIFY 17 RISERS AT +/- 7.28" = 123 3/4" TOTAL	LOV SQ IN SHALL BE PROVIDED BY LOUVERED DOORS OR PROV	DED IN THE CLOSET ENCLOSURE OR MAKEUP Y OTHER APPROVED MEANS PER LOCAL CODE /IDING A TRANSFER GRILLE ABOVE THE DOOR	
(USE 14" TJI WITH 3/4" PLYWOOD SUBFLOOR) 16 TREADS AT 10" EACH VERIFY 17 RISERS AT +/- 7.28" = 123 3/4" TOTAL			
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	(USE 14" TJI WITH 3/4" PLYWOO 16 TREADS AT 10" EACH VERIF	D SUBFLOOR)	

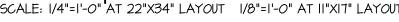


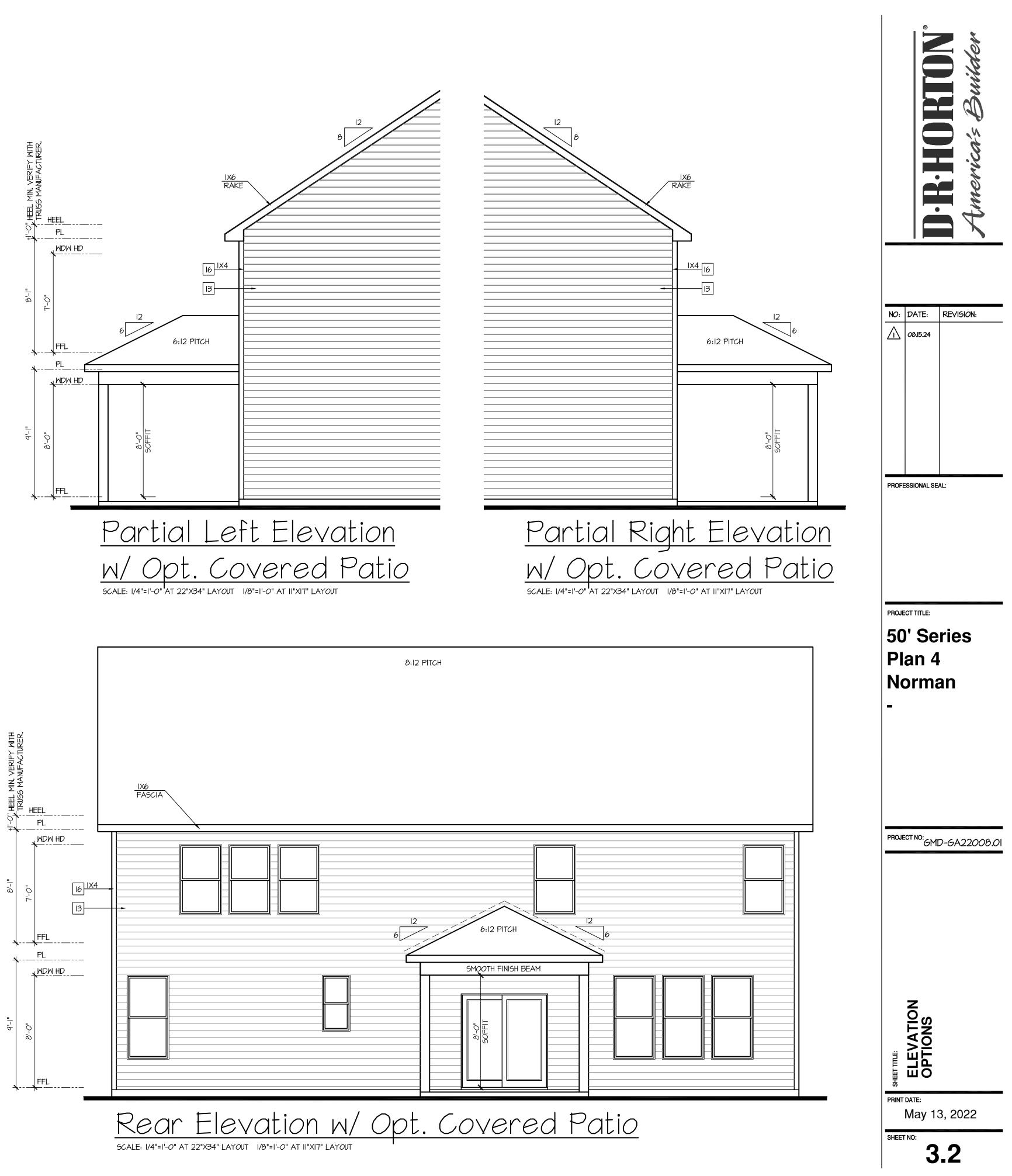
SCALE: 1/4"=1'-0" AT 22"X34" LAYOUT 1/8"=1'-0" AT 11"X17" LAYOUT

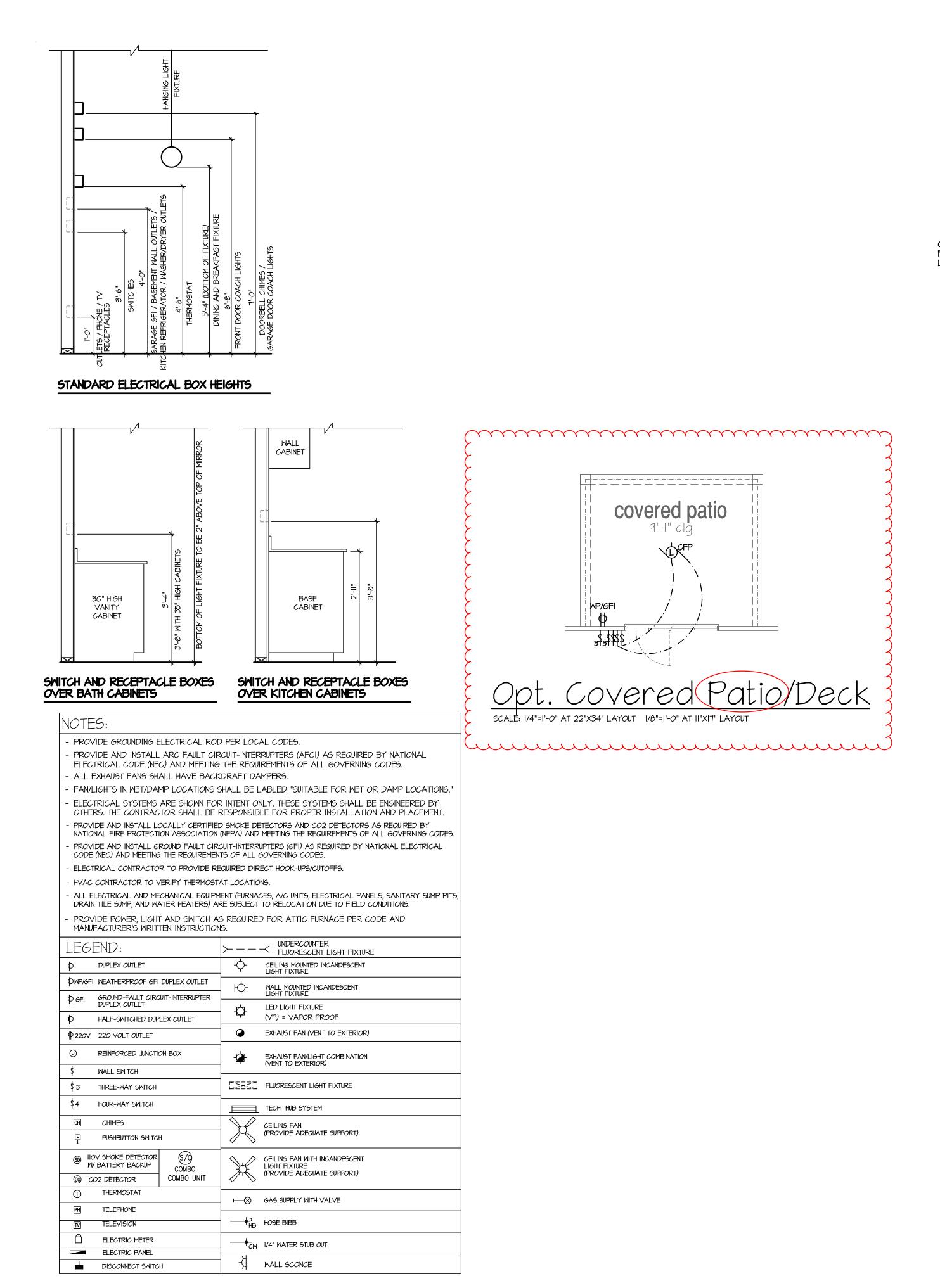


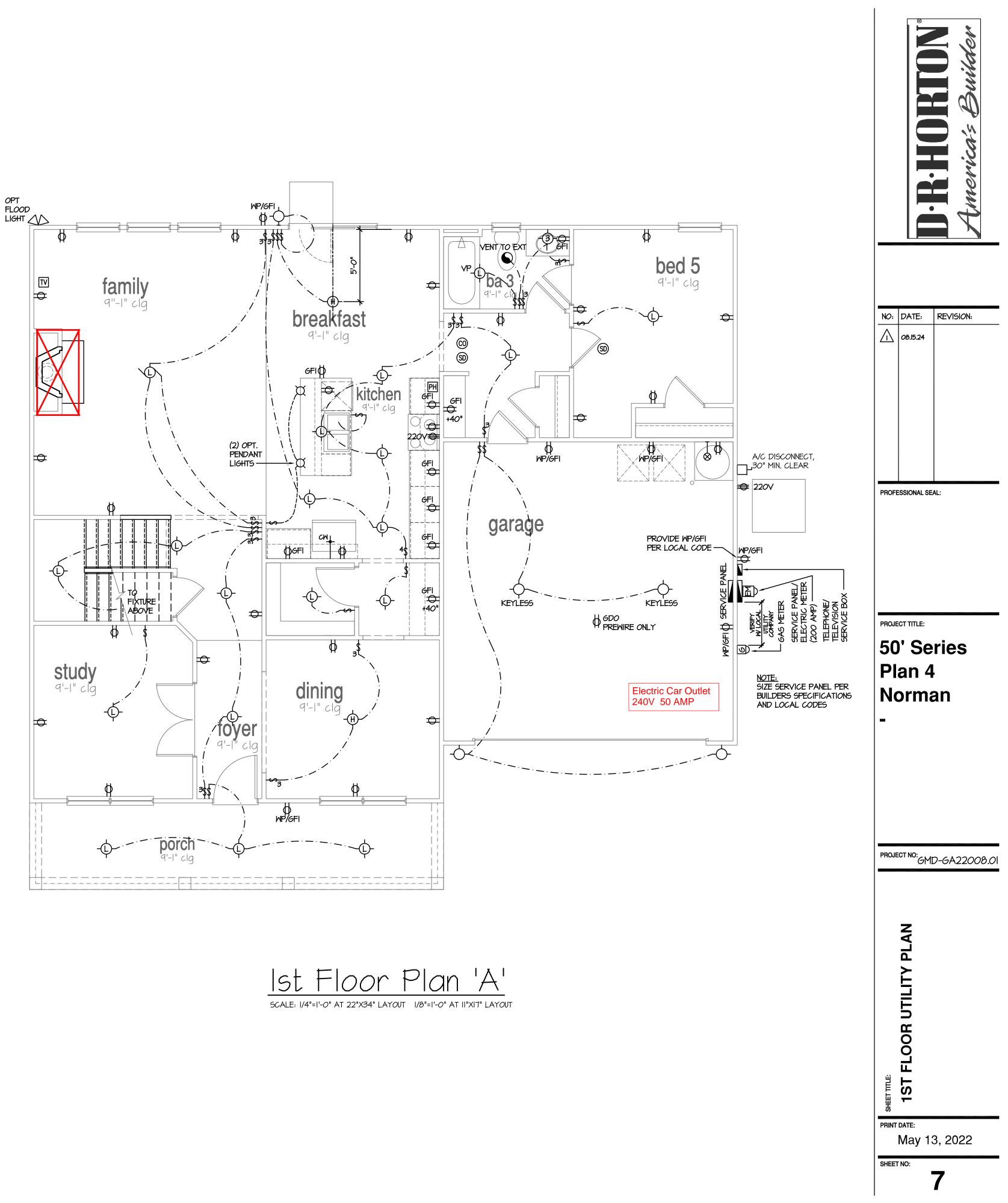
KEY NOTES:
MASONRY:
ADHERED STONE VENEER AS SELECTED BY DEVELOPER. HEIGHT AS NOTED.
2 MASONRY FULL BRICK AS SELECTED BY DEVELOPER. HEIGHT AS NOTED.
3 MASONRY FULL STONE AS SELECTED BY DEVELOPER. HEIGHT AS NOTED.
4 8" SOLDIER COURSE.
5 ROWLOCK COURSE
6 DECORATIVE KEY. SEE DETAIL.
TYPICALS:
1 CORROSION RESISTANT SCREEN LOUVERED VENTS, SIZE AS NOTED.
8 CODE APPROVED TERMINATION CHIMNEY CAP.
Image: CORROSION RESISTANT ROOF TO WALL FLASHING. CODE COMPLIANTFLASHING PER NCRC R905.2.8.3
O STANDING SEAM METAL ROOF, INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
II DECORATIVE WROUGHT IRON. SEE DETAILS.
SIDING:
I2 FIBER CEMENT SHAKE SIDING PER DEVELOPER
W/ 5/4x4 CORNER TRIM BOARDS.
I3 FIBER CEMENT LAP SIDING PER DEVELOPER W/ 5/4x4 CORNER TRIM BOARDS.
14 FIBER CEMENT WAVY SIDING PER DEVELOPER
W/ 5/4x4 CORNER TRIM BOARDS.
[15] FIBER CEMENT PANEL SIDING W/ IX3 BATTS AT 12" O.C. (VINYL BOARD AND BATT SIDING)
16 IX FIBER CEMENT TRIM OR EQUAL, U.N.O. SIZE AS NOTED
TIT FALSE WOOD SHUTTERS, TYPE AS SHOWN. SIZE AS NOTED.
ALL WINDOWS WHOSE OPENING IS LESS THAN 24" ABOVE
THE FINISH FLOOR AND WHOSE OPENING IS GREATER THAN 72" ABOVE THE OUTSIDE WALKING SURFACE MUST HAVE
WINDOW OPENING LIMITING DEVICES COMPLYING WITH THE
NCRC SECTION R312.2.1 AND R312.2.2.
NOTES: NCRC
- GRADE CONDITIONS MAY VARY FOR INDIVIDUAL SITE FROM THAT SHOWN. BUILDER SHALL VERIFY AND COORDINATE PER ACTUAL SITE CONDITIONS.
- WINDOW HEAD HEIGHTS:
IST FLOOR = $8'-0"$ U.N.O. ON ELEVATIONS. 2ND FLOOR = $7'-0"$ U.N.O. ON ELEVATIONS.
3RD FLOOR = 7'-O" U.N.O. ON ELEVATIONS.
- ROOFING: PITCHED SHINGLES PER DEVELOPER.
- WINDOWS: MANUFACTURER PER DEVELOPER. DIVIDED LITES AS SHOWN ON THE EXTERIOR ELEVATIONS - ENTRY DOOR: AS SELECTED BY DEVELOPER.
- GARAGE DOORS: AS SELECTED BY DEVELOPER, RAISED PANEL AS SHOWN.
- CHIMNEY AS OCCURS: TOP OF CHIMNEYS TO BE A MINIMUM OF 24" ABOVE ANY ROOF
WITHIN 10'-O" OF CHIMNEY. - ALL EXTERIOR MATERIALS TO BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- PROTECTION AGAINST DECAY:
(ALL PORTIONS OF A PORCH, SCREEN PORCH OR DECK FROM THE BOTTOM OF THE HEADER DOWN, INCLUDING POST, RAILS, PICKETS, STEPS AND FLOOR STRUCTURE.)
- SHINGLED ROOF PITCHES FROM 2/12 TO 4/12 TO HAVE (2) LAYERS OF UNDERLAYMENT
APPLIED AND OVERLAPPED PER TABLE R905.1.1(2)

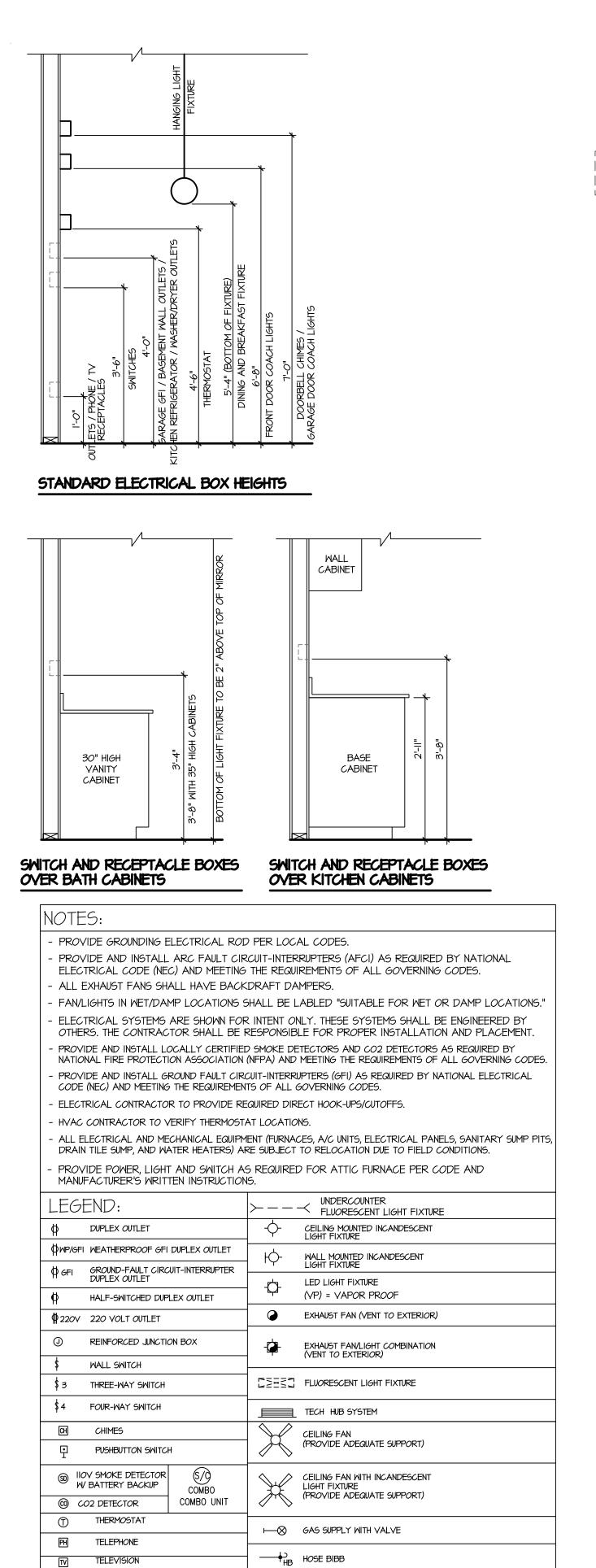










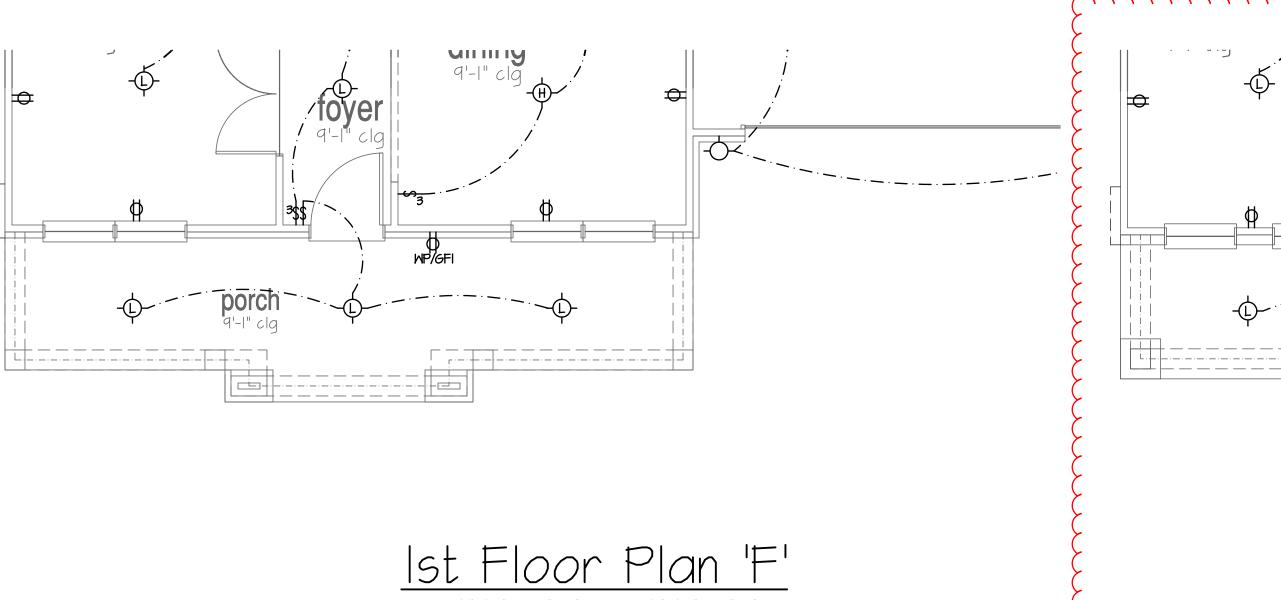


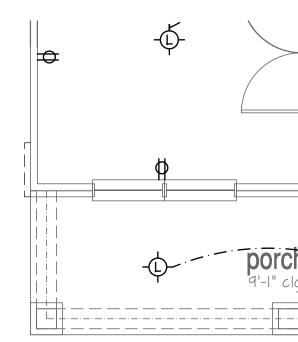
- WALL SCONCE

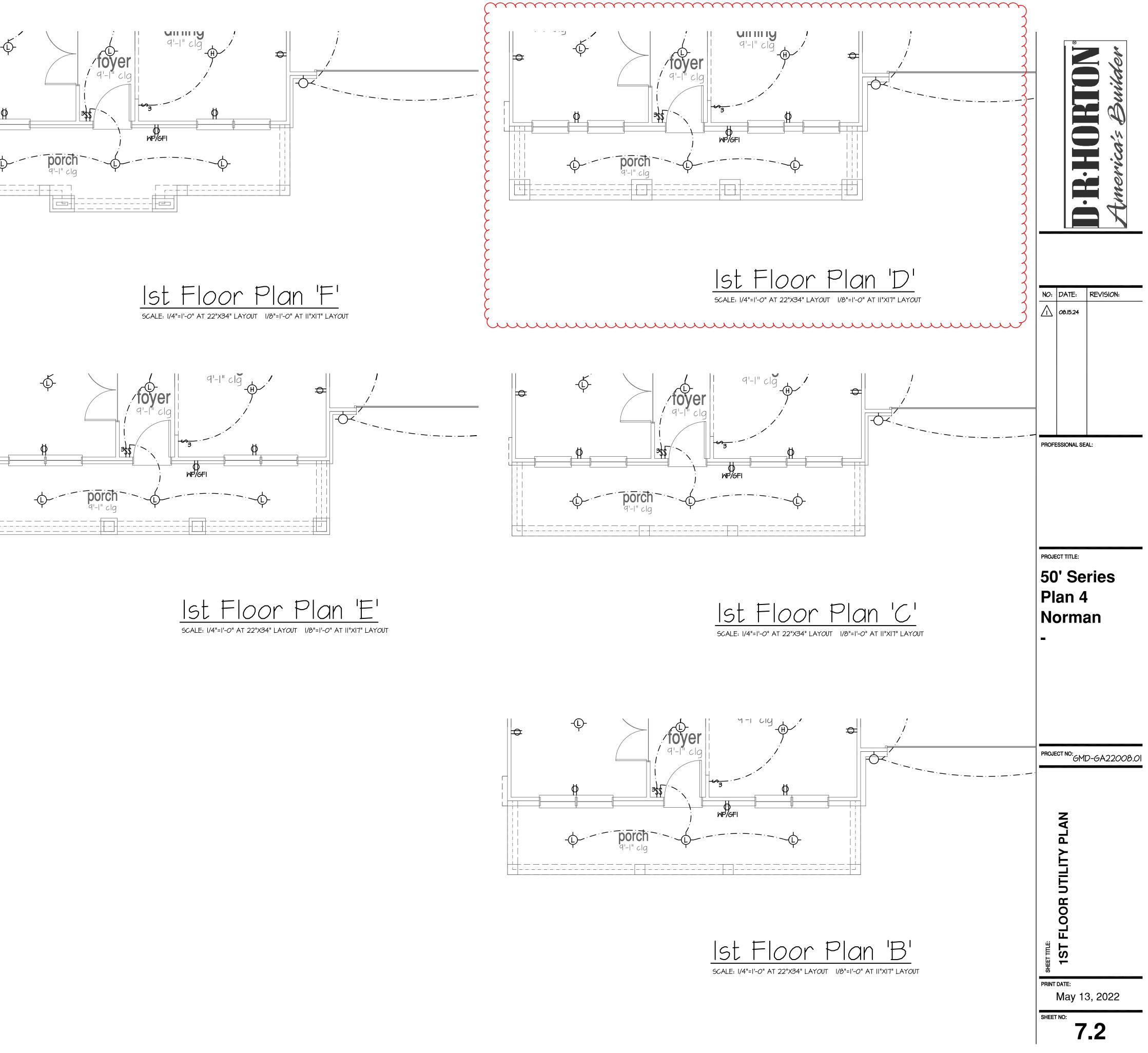
ELECTRIC METER

ELECTRIC PANEL

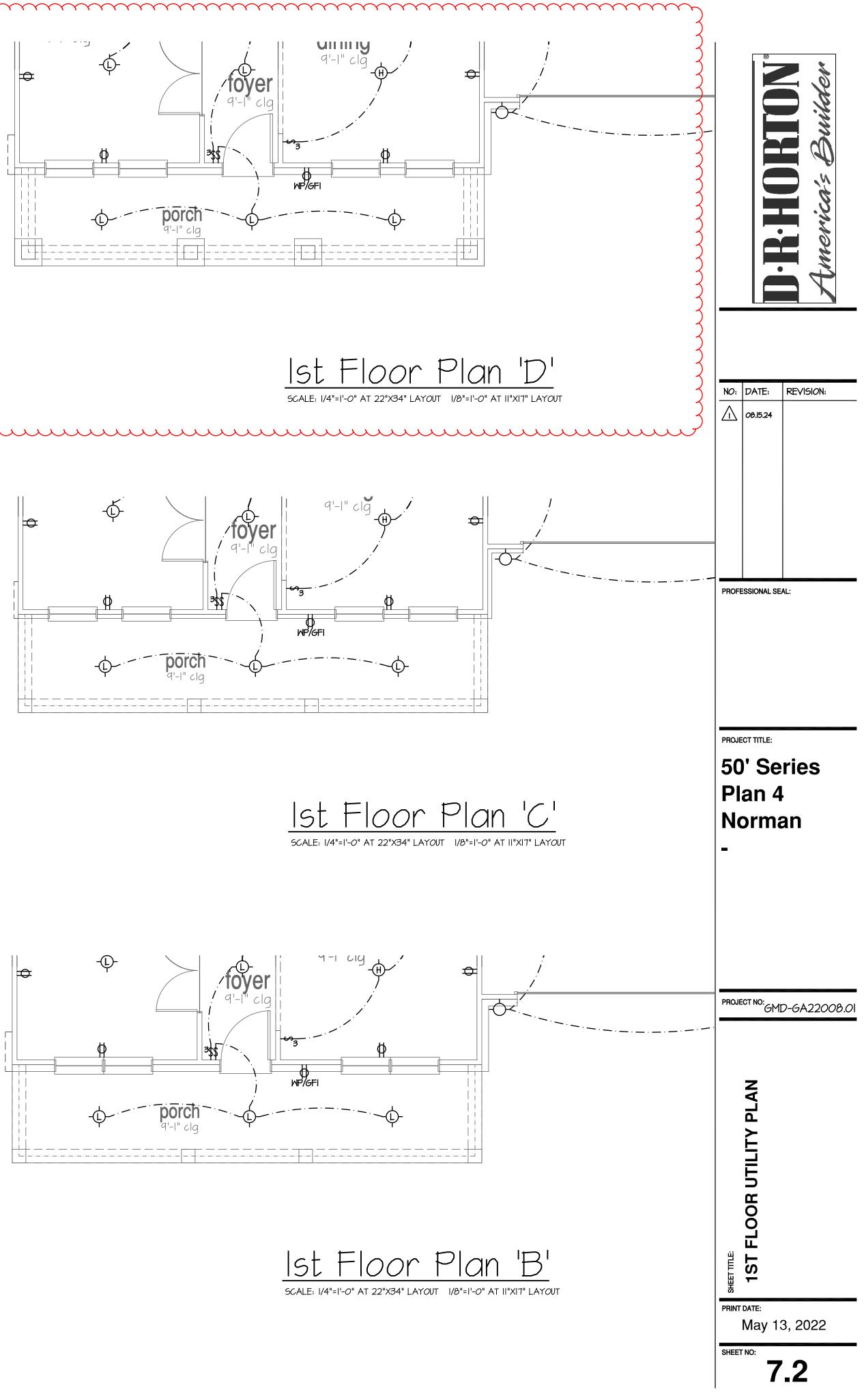
DISCONNECT SWITCH

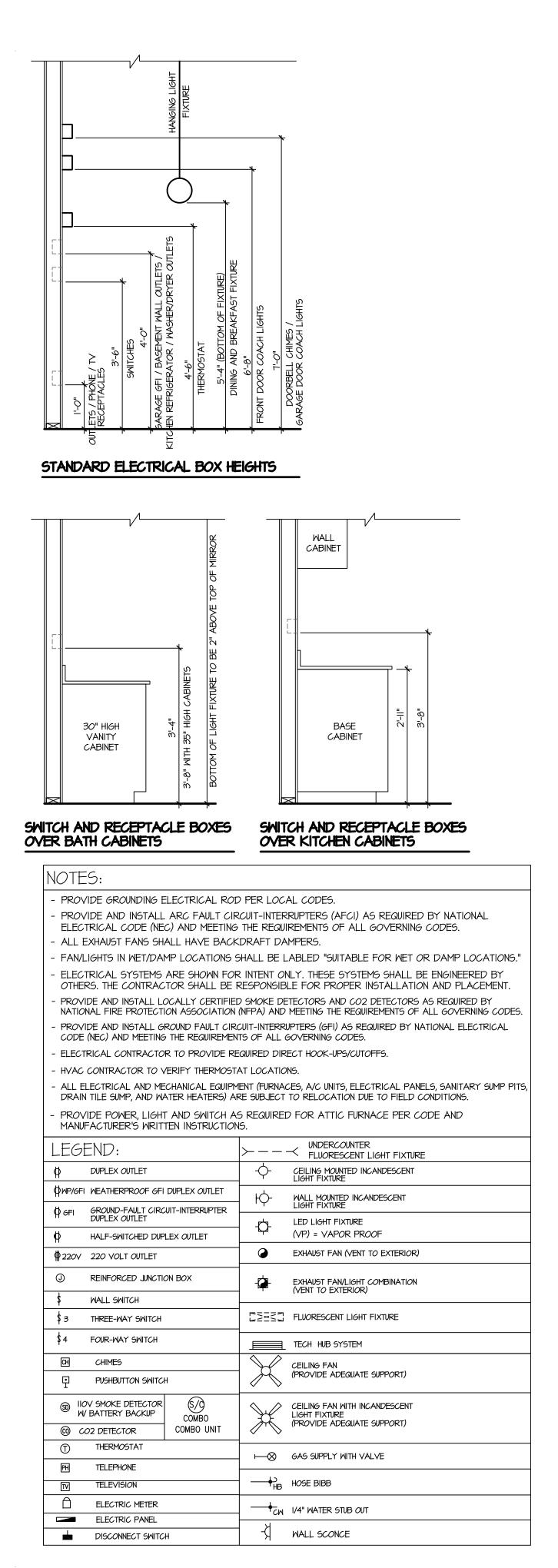


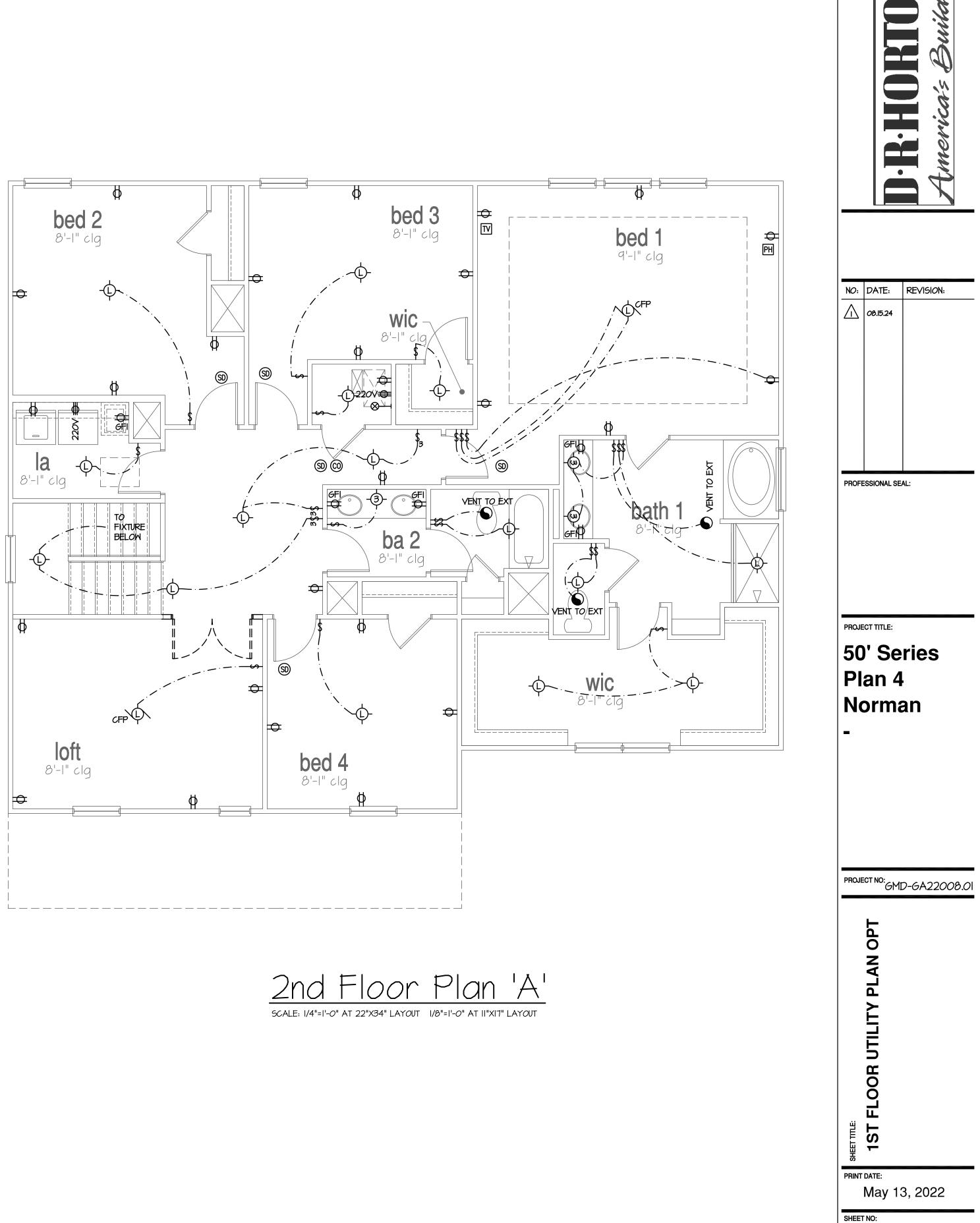


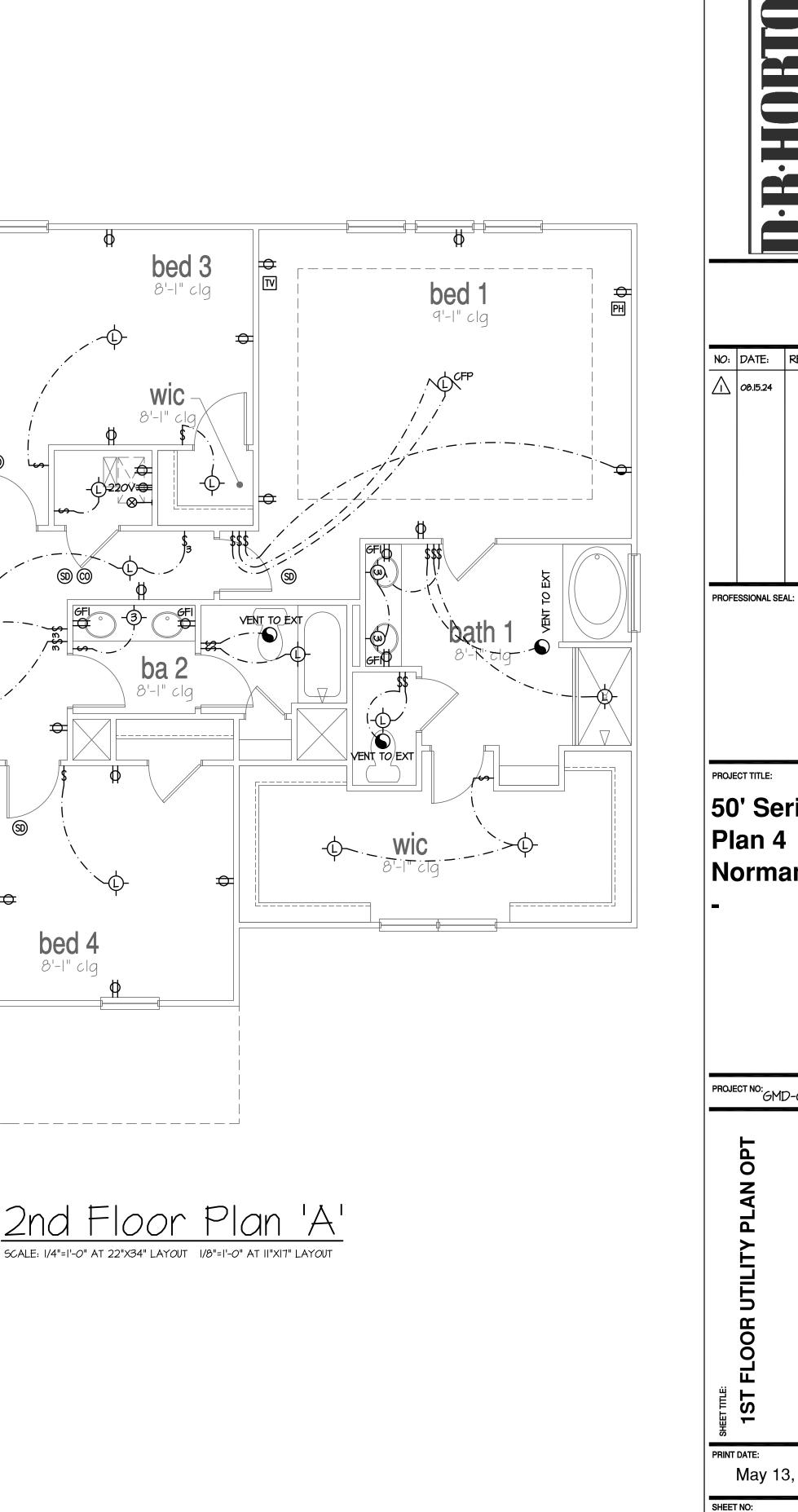


lst	Floor	Plan	Έ

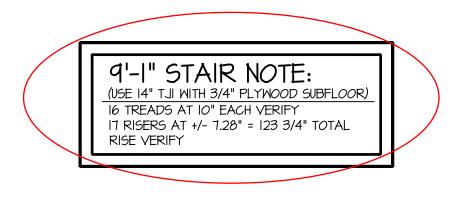








7.1



NOTES: NCRC TABLE NIIO2.I.2

- REFER TO FLOOR PLAN NOTES FOR TYPICAL FIRE PROTECTION NOTES AND LOCATIONS.

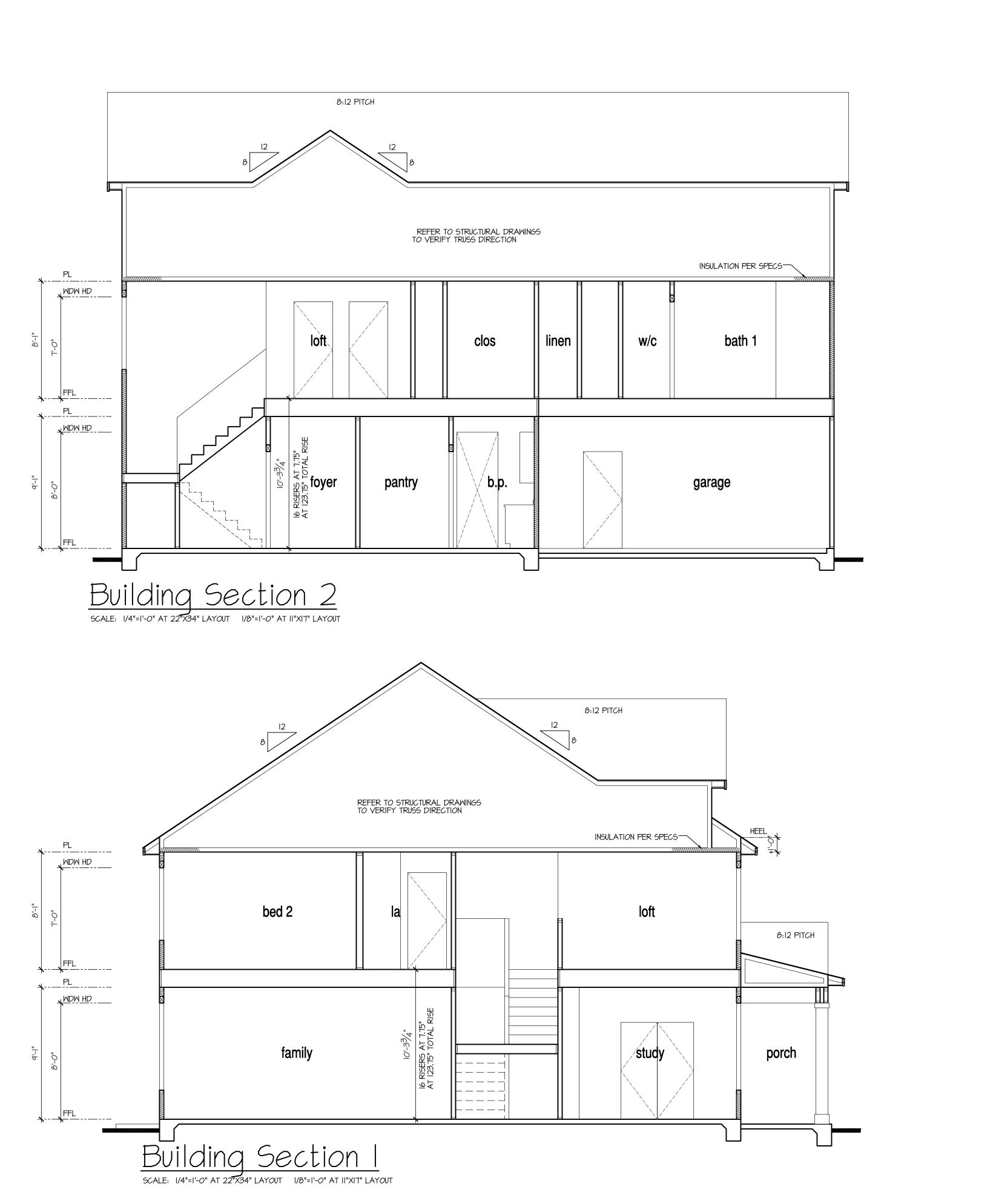
- THESE BUILDING SECTIONS MAY VARY AT ALTERNATE ELEVATION STYLES AND AT "PLAN OPTION" CONDITIONS. REFER TO MAIN FLOOR PLAN AND ALTERNATE FLOOR PLANS FOR INFORMATION NOT SHOWN HERE.
- BUILDING SECTIONS SHOWN HERE DEPICT VOLUMN SPACES WITHIN THE STRUCTURE. REFER TO STRUCTURAL DRAWINGS, TRUSS DRAWINGS, 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.

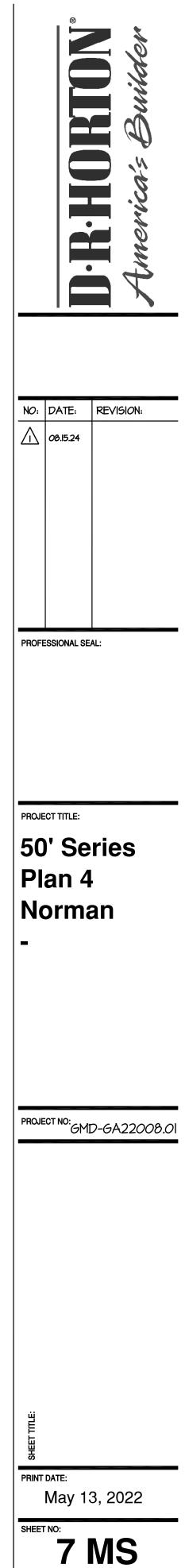
INSULATION: PER TABLE NIIO2.1.2. NCRC 2018 ZONE 3 AND 4:

EXTERIOR WALLS: CEILING WITH ATTIC ABOVE: R-38 BATTS MINIMUM. VERIFY FLOOR OVER GARAGE: ATTIC KNEEWALL: CRAWL SPACE FLOORING: R-10/15 MINIMUM. VERIFY SLAB VALUE:

R-15 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.





SHEET INDEX:

S-0	COVER SHEET	
S-0.1	GENERAL STRUCTURAL NOTES	
0 7110 1		
S 3MS A	MONOLITHIC SLAB FOUNDATION PLANS	ELEVATION A & OPTION
S 3MS B	MONOLITHIC SLAB FOUNDATION PLANS	ELEVATION B & OPTION
S 3MS C	MONOLITHIC SLAB FOUNDATION PLANS	ELEVATION C & OPTION
S 3MS D	MONOLITHIC SLAB FOUNDATION PLANS	ELEVATION D & OPTION
S 3MS E	MONOLITHIC SLAB FOUNDATION PLANS	ELEVATION E & OPTION
S 3MS F	MONOLITHIC SLAB FOUNDATION PLANS	ELEVATION F & OPTION
S 3CS A	CRAWL SPACE FOUNDATION PLANS	ELEVATION A & OPTIONS
S 3CS B	CRAWL SPACE FOUNDATION PLANS	ELEVATION B & OPTIONS
S 3CS C	CRAWL SPACE FOUNDATION PLANS	ELEVATION C & OPTIONS
S 3CS D	CRAWL SPACE FOUNDATION PLANS	ELEVATION D & OPTIONS
S 3CS E	CRAWL SPACE FOUNDATION PLANS	ELEVATION E & OPTIONS
S 305 E	CRAWL SPACE FOUNDATION PLANS	ELEVATION F & OPTIONS
3 303 1	CRAWE SPACE FOUNDATION FEARS	LLEVATION 1 & OFTIONS
S 3 A	BASEMENT FOUNDATION PLANS	ELEVATION A & OPTION
S 3 B	BASEMENT FOUNDATION PLANS	ELEVATION B & OPTION
S 3 C	BASEMENT FOUNDATION PLANS	ELEVATION C & OPTION
S 3 D	BASEMENT FOUNDATION PLANS	ELEVATION D & OPTION
S 3 E	BASEMENT FOUNDATION PLANS	ELEVATION E & OPTION
S 3 F	BASEMENT FOUNDATION PLANS	ELEVATION F & OPTION
S 4 A	SECOND FLOOR FRAMING PLANS	ELEVATION A & OPTION
S 4 B	SECOND FLOOR FRAMING PLANS	ELEVATION B & OPTION
S 4 C	SECOND FLOOR FRAMING PLANS	ELEVATION C & OPTION
S 4 D	SECOND FLOOR FRAMING PLANS	ELEVATION D & OPTION
S 4 E	SECOND FLOOR FRAMING PLANS	ELEVATION E & OPTION
S 4 F	SECOND FLOOR FRAMING PLANS	ELEVATION F & OPTION
S 5 A	ROOF FRAMING PLAN	ELEVATION A
S 5 B	ROOF FRAMING PLAN	ELEVATION B
S 5 C	ROOF FRAMING PLAN	ELEVATION C
S 5 D	ROOF FRAMING PLAN	ELEVATION D
S 5 E	ROOF FRAMING PLAN	ELEVATION E
S 5 F	ROOF FRAMING PLAN	ELEVATION F
DS-1J	BRACED WALL DETAILS	
DS-2J	HOLD DOWN DETAILS	
DS-3	BRACED WALL NOTES & DETAILS	
DS-4	PORTAL FRAME DETAILS	
DS-5	MISCELLANEOUS FRAMING DETAILS	
DS-6	MISCELLANEOUS FRAMING DETAILS	
DS-7	MONOLITHIC SLAB FOUNDATION DETAILS	
DS-8	NOT USED	
DS-9J	CRAWL SPACE FOUNDATION DETAILS	
DS-10	BASEMENT FOUNDATION DETAILS	
DS-11	BASEMENT FOUNDATION DETAILS	



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NORMAN - 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 NOTHER DIGINEERING, 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

DESIGN LIVE LOADS:

- ROOF = 20 PSF (LOAD DURATION FACTOR=1.25)
- 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 = 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_B=3,100 PSI, F_V=285 PSI, F_C=750 PSI

• UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)





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.
- 2. 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 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.
- 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.
- THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL CODES OR RESTRICTIONS.
- 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.

FOUNDATIONS:

- 1. FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE BUILDING CODE.
- 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.
- 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 FOOTING PROJECTION 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 ½" ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-O" O.C. INSTALL MINIMUM 2 ANCHOR BOLTS PER SECTION, 12" MAXIMUM FROM CORNERS. ½" DIAMETER × 8" LONG SIMPSON TITEN HD OR USP SCREW-BOLT+ SCREWS MAY BE SUBSTITUTED ON A 1 FOR 1 BASIS.
- 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.
- 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 ACAUST ANY SUBGRADE CONTAINING
- NO CONCRETE SHALL BE PLACED AGAINST ANT SUBGRADE CONTAINIT WATER, ICE, FROST, OR LOOSE MATERIAL.
 PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE
- 10. PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS (SEE ARCHITECTURAL PLANS AND DETAILS).
- NONE OF THE FOUNDATION DESIGNS IN THESE DOCUMENTS ARE SUITABLE FOR INSTALLATION IN SHRINK/SWELL CONDITIONS. REFER TO GEOTECHNICAL ENGINEER FOR APPROPRIATE DESIGN.
- 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.
- CRAWL SPACE TO BE GRADED LEVEL AND CLEAR OF ALL DEBRIS.
 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 ("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.
- +2% OF 3% FOR FOUNDES AND EATENOM STADS. 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 DESIGN.
- 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'-O" O.C. AND IN EXTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 10'-O" UNLESS OTHERWISE NOTED. CARE SHALL BE TAKEN TO AVOID RE-ENTRANT CORNERS.
- 7. 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 C11116, 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.
 STEFL REINFORCING BARS SHALL BE NEW BILLET STEFL CONFORMING
- TO ASTA 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 CORRER 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.
- 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'-O" O.C. BOTH WAYS IN STRAIGHT LINES ON THE MESH GRID.

MASONRY

- 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 ¾" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
- 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 MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR 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.
- 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 CORVERS.

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 DEC.

 $\mathsf{SPRUCE}-\mathsf{PINE}-\mathsf{FIR}$ (SPF) WITH THE FOLLOWING MINIMUM DESIGN VALUES:

E=1,400,000 PSI, $F_b=875$ PSI, $F_v=135$ PSI 1.1. FRAMING: SPF #2.

- 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 BETTER
- ANCHOR SILL PLATES IN ACCORDANCE W/ GENERAL STRUCTURAL NOTES.
 ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY BE SUBSTITUTED AS NEFDED 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. 7. INDIVIDUAL STUDS FORMING A COLUMN SHALL BE ATTACHED WITH (2) ROWS 10d NAILS @ 6" O.C. STAGGERED. THE STUD COLUMN SHALL BE
- ROWS 10d NALS @ 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 NAL ALL MULTI-PLY BEAMS AND HEADERS WITH (2) ROWS 16d
- FACE NALE ALL MULTI-PET BEAMS AND HEADERS WITH (2) ROWS TO 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) $\frac{1}{2}$ " DIAMETER THROUGH BOLT W/ NUTS AND WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, $\frac{1}{2}$ " MINIMUM EDGE DISTANCE. (UNLESS OTHERWISE NOTED)
- 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.
- PROVIDE KING STUDS AT EACH END OF HEADERS AS NOTED BELOW.
 STUD UP TO 6' OPENING
 STUDS UP TO 8' OPENING
- (3) STUDS UP TO 9' OPENING
- ÀLL 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.
- SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
 ALL LUMBER SPECIFIED ON DRAWINGS IS INTENDED FOR DRY USE ONLY
- ALL LUMBER SPECIFIED ON DRAWINGS IS INTENDED FOR DRY US (MOISTURE CONTENT <19%) UNLESS OTHERWISE NOTED.
- ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS.
- DEFAILED BI 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 STUD SHOES. TYPICAL UNLESS OTHERWISE NOTED.
- 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.
- DIAGONAL BRCING 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.
 PRESERVATIVE TREATED WOOD FRAMING TO BE SOUTHERN YELLOW
- 2. PRESERVATIVE TREATED WOOD FRAMING TO BE SOUTHERN TELLOW 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 CODE.

RAFT<u>ER FRAMED ROOF CONSTRUCTION:</u>

1. 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 RAFTER 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 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.
- 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 FEOLUTED ATTACHMENTS FOR THE TRUSSES
- 5. 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.
- 6. 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 NOT 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.
- 10. PROVIDE SIMPSON H2.5A, USP RT7 OR EQUIVALENT AT EACH TRUSS TO TOP PLATE CONNECTION, UNLESS OTHERWISE NOTED.

WOOD STRUCTURAL PANELS

TO BE 7/2" OSB MINIMUM

OR PLATES

5.

- 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 $\frac{7}{16}$ " OSB OR PLYWOOD MINIMUM. AT BRACED WALL PANELS,

PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS

2. ROOF SHEATHING SHALL BE CONTINUOUS OVER TWO SUPPORTS

8d NAILS AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL

FIELD LINLESS OTHERWISE NOTED ON THE PLANS SHEATHING SHAL

SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE

WOOD FLOOR SHEATHING SHALL BE APA RATED SHEATHING

EXPOSURE 1 OR 2. ATTACH SHEATHING TO ITS SUPPORTING

12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE

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

SHEATHING SHALL HAVE A %" GAP AT PANEL ENDS AND EDGES AS

PANEL END JOINTS SHALL OCCUR OVER FRAMING

RECOMMENDED IN ACCORDANCE WITH THE APA.

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

FRAMING WITH (1) 10d NAIL AT 6" O.C. AT PANEL EDGES AND AT

PLANS, SHEATHING SHALL BE APPLIED PERPENDICULAR TO FRAMING

BE APPLIED WITH THE LONG DIRECTION PERPENDICULAR TO FRAMING

MINIMUM AND ATTACHED TO ITS SUPPORTING ROOF FRAMING WITH

4 ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR

STRUCTURAL FIBERBOARD PANELS:

- 1. 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 STANDARDS.

STRUCTURAL STEEL:

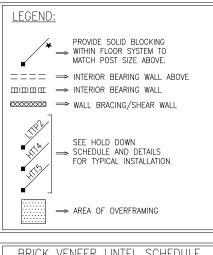
- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS.
- ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS (F_y) OF 50 KSI UNLESS OTHERWISE NOTED.
 WELDING SHALL CONFORM TO THE LATEST EDITION OF THE
- 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) ½" x 4" LAG SCREWS UNLESS OTHERWISE NOTED.
- INSTALL 2× 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" O.C.

MECHANICAL FASTENERS:

- 1. ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG-TIE OR APPROVED EQUIVALENT.
- 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.
- 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.



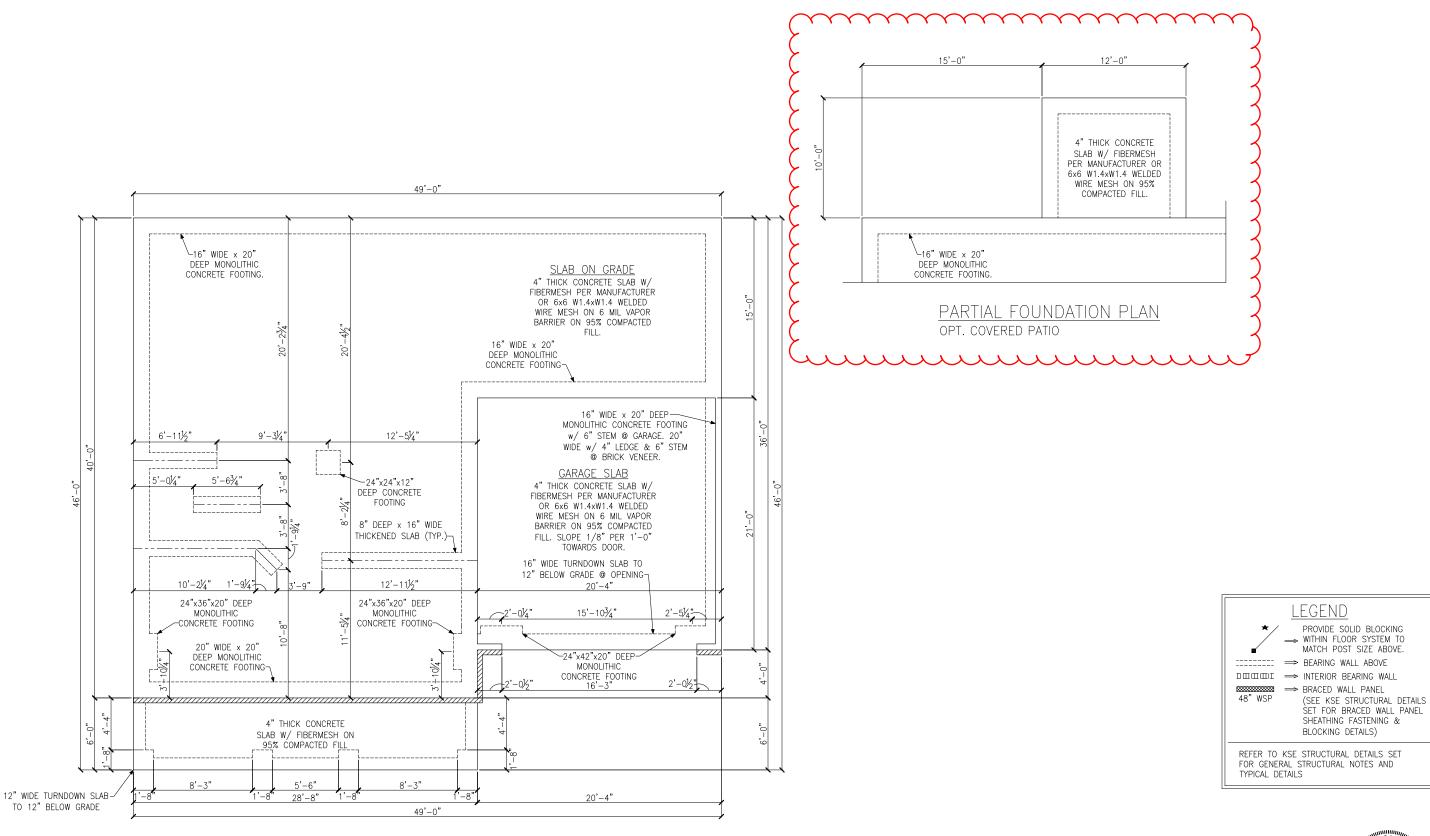
D-R-HORTON" America's Builder



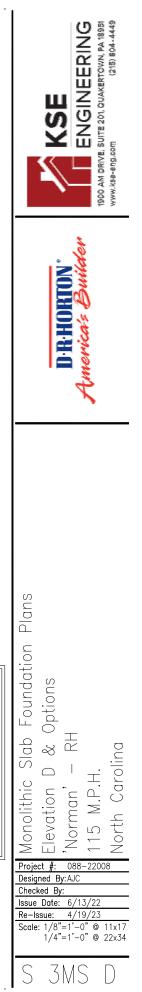
	BRICK	VENEER LINTEL SC	HEDULE
l	SPAN	LINTEL SIZE	END BEARING
	UP TO 3'-0"	3½"×3½"×¼"	4"
	UP TO 6'-3"	5"x3½"x5⁄16" L.L.V.	8"
	UP TO 9'-6"	6"x3½"x5⁄16" L.L.V.	12"
	L L	E NOT DESIGNED TO BE BOLTEI UNLESS SPECIFIED ON UNIT PL/ R 4'-O" SHALL BE SHORED UP	ANS.



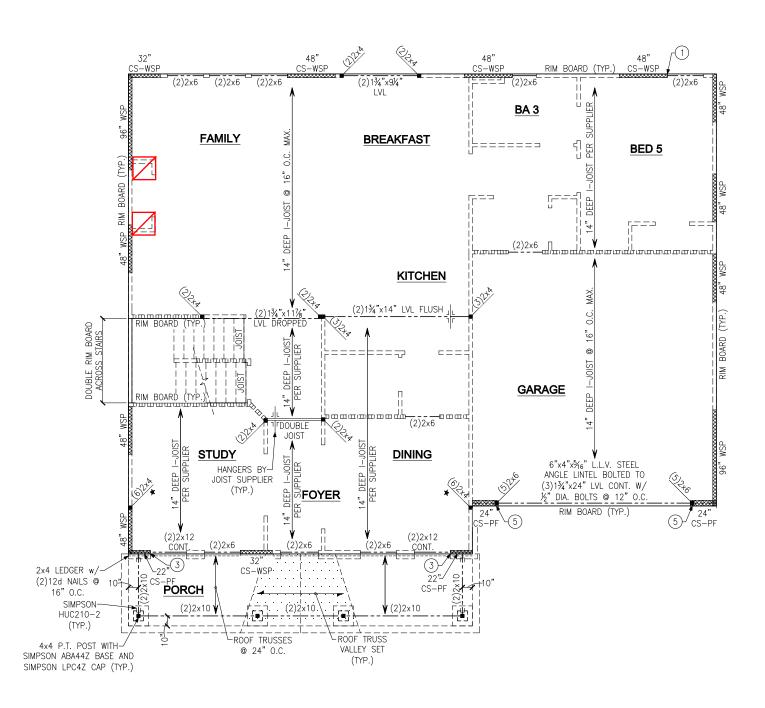


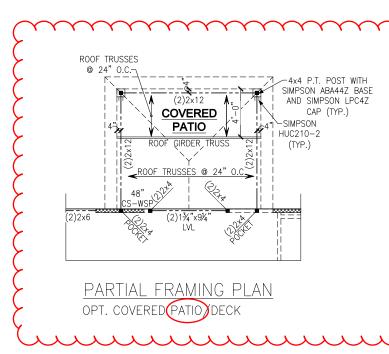


MONOLITHIC SLAB FOUNDATION PLAN ELEVATION D

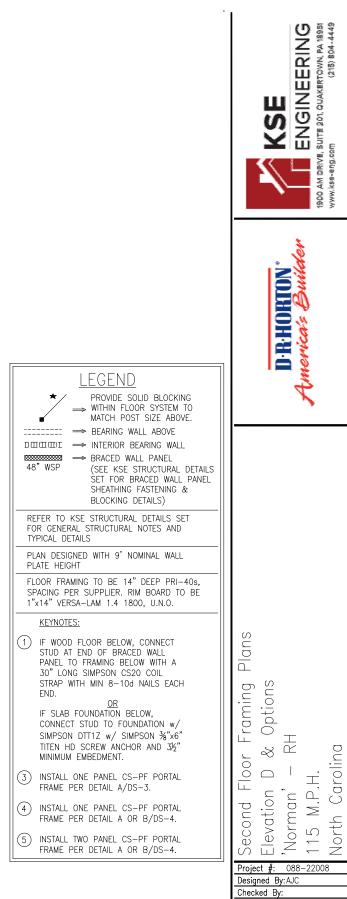








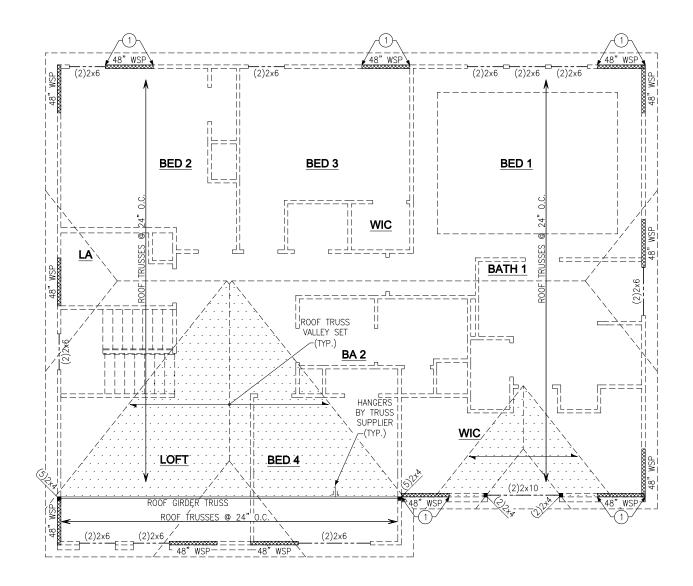
$\frac{\text{SECOND FLOOR FRAMING PLAN}{\text{ELEVATION D}}$





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

Issue Date: 6/13/22 Re-Issue: 4/19/23

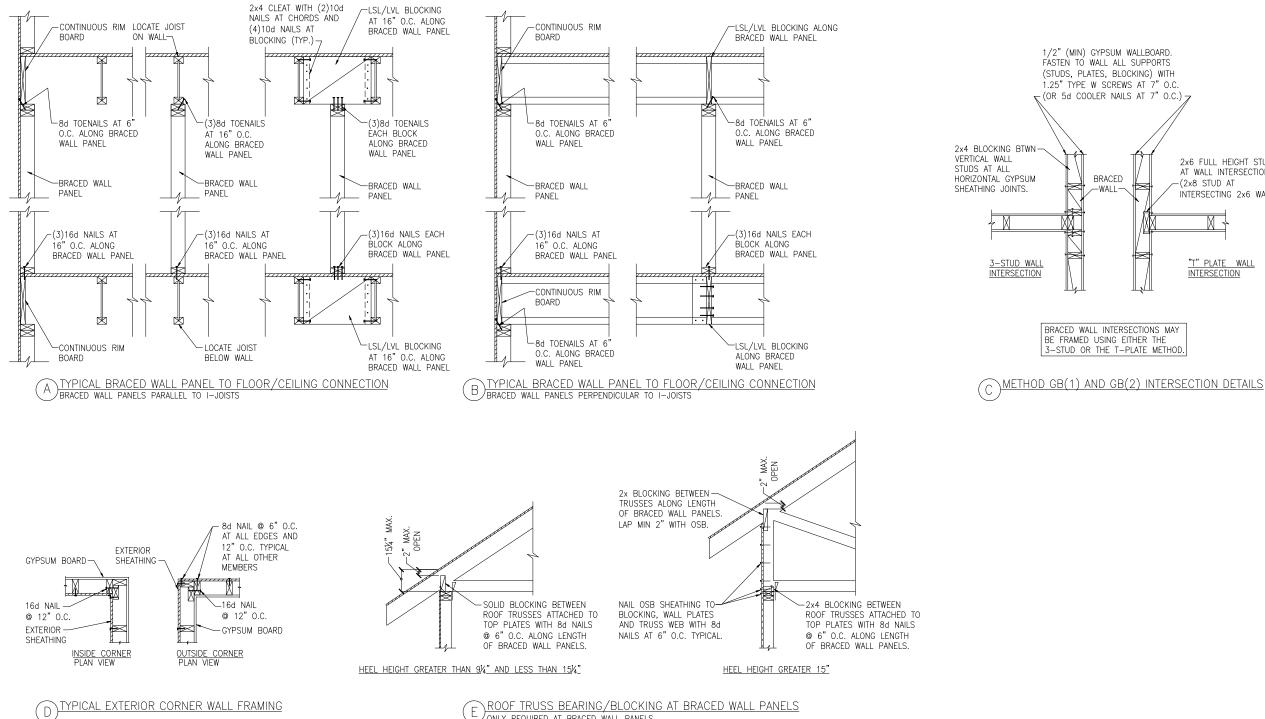


ROOF FRAMING PLAN

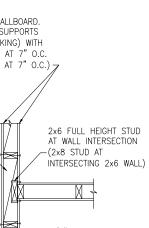


LEGEND
★ PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□□□□□□□□ → INTERIOR BEARING WALL
48" WSP (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS
PLAN DESIGNED WITH 8' NOMINAL WALL PLATE HEIGHT
KEYNOTES:
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. <u>OR</u> IF SLAB FOUNDATION BELOW, CONNECT STUD TO FOUNDATION w/ SIMPSON DTT1Z w/ SIMPSON 3%"x6" TITEN HD SCREW ANCHOR AND 3%"
MINIMUM EMBEDMENT.





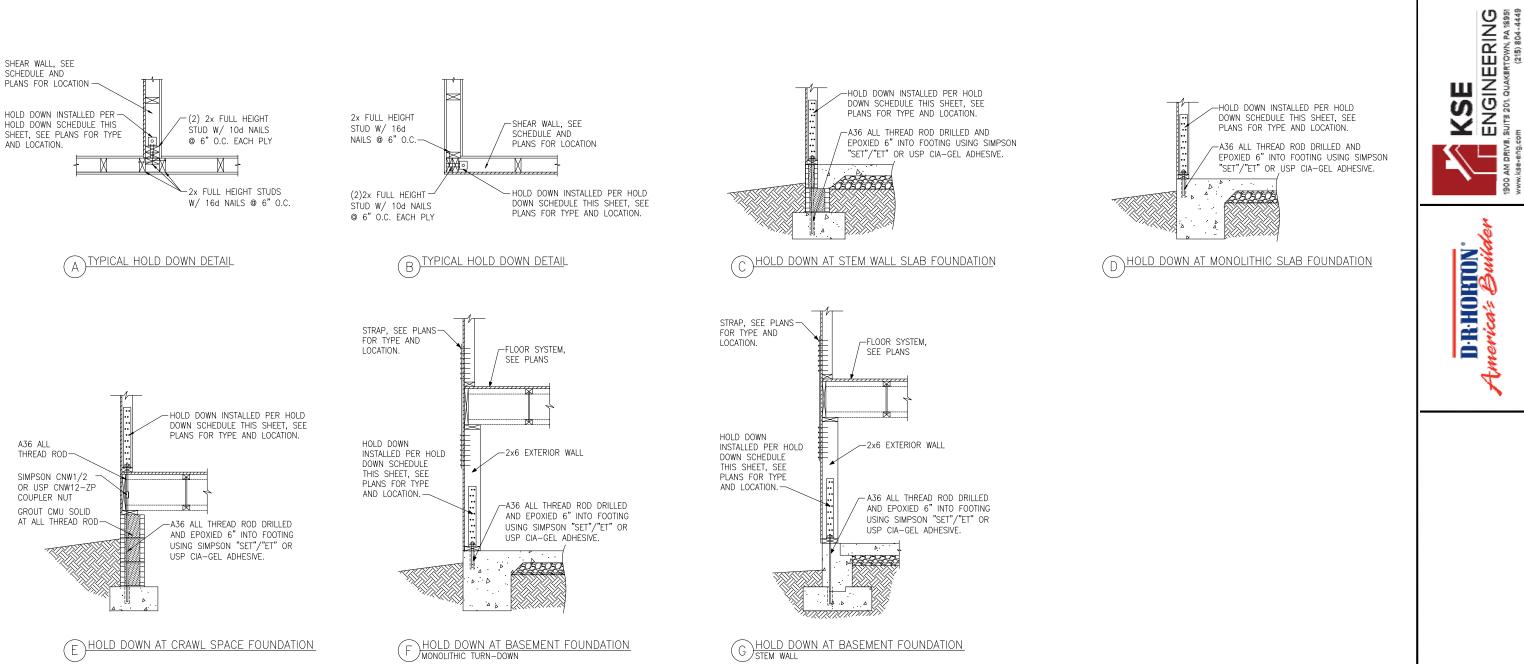
ONLY REQUIRED AT BRACED WALL PANELS



T" PLATE WALL INTERSECTION



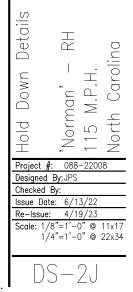


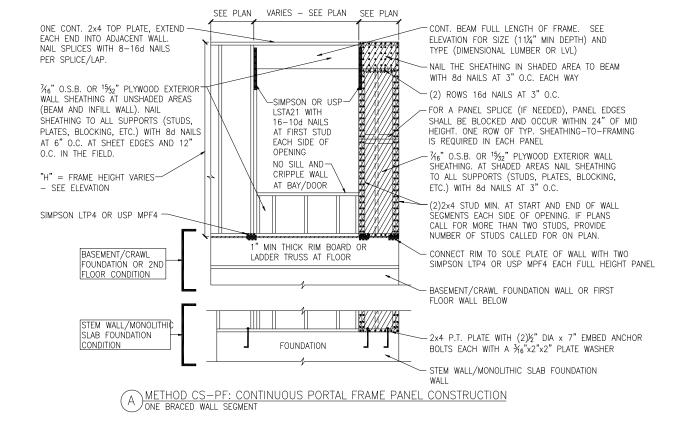


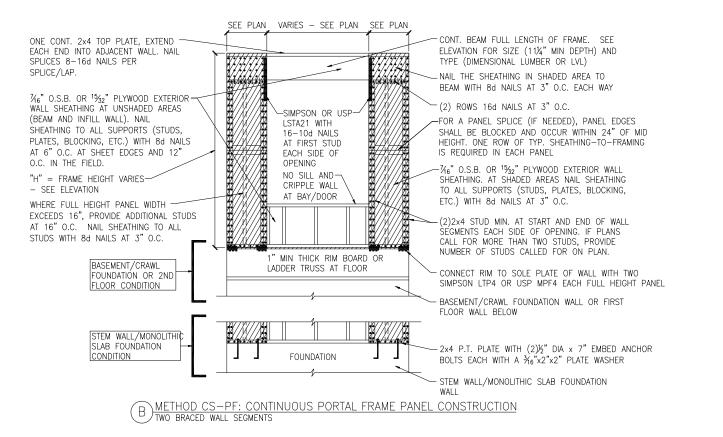
HOLD SIMPSON LTTP2 HTT4 HTT5

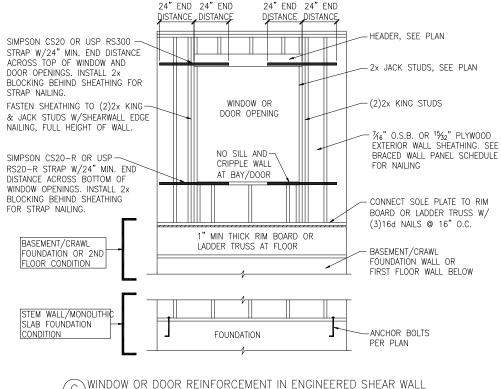
HOLD	DOWN SCHE	EDULE
DOWN	ALL THREAD ROD	FASTENERS
USP		
LTS20B	½" DIA.	(12)10dx1½" LONG NAILS
HTT16	5%" DIA.	(18)16dx2½" LONG NAILS
HTT45	5%"DIA.	(26)16dx2½" LONG NAILS











ONLY REQUIRED WHERE SPECIFIED ON PLANS

2. PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.

SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH 7/6" O.S.B., OR 15/32" 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

	BRACED WALI	_ PANEL AN	ND ENGINEERED
PANEL TYPES	PANEL TYPE	MATERIAL	
WSP	INTERMITTENT WOOD STRUCTURAL PANEL	7/16"OSB	6D OR 8D COMMON INTERMEDIATE SUPPO STAPLES AT 3" O.C.
GB(1)	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. RC DRYWALL SCREWS A
GB(1)-4	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. RC DRYWALL SCREWS A
GB(2)	INTERMITTENT GYPSUM BOARD (SHEATHING BOTH FACES OF WALL)	1/2" GYPSUM	1.5" LONG GALV. RC DRYWALL SCREWS A
CS-WSP	CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL	7/16"OSB	6D OR 8D COMMON INTERMEDIATE SUPPO STAPLES AT 3" O.C.
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 . INTERMEDIATE SUPPO
CS-ESW(2)	ENGINEERED SHEAR WALL, TYPE 2	7/16"OSB	8D COMMON NAILS . INTERMEDIATE SUPPO
CS-ESW(3)	ENGINEERED SHEAR WALL, TYPE 3	7/16"OSB	8D COMMON NAILS . INTERMEDIATE SUPPO
BRACED WALL	PANEL NOTES:		

SHEAR WALL SCHEDULE

FASTENERS

NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT PORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS

OOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.

OOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W AT 4" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.

OOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.

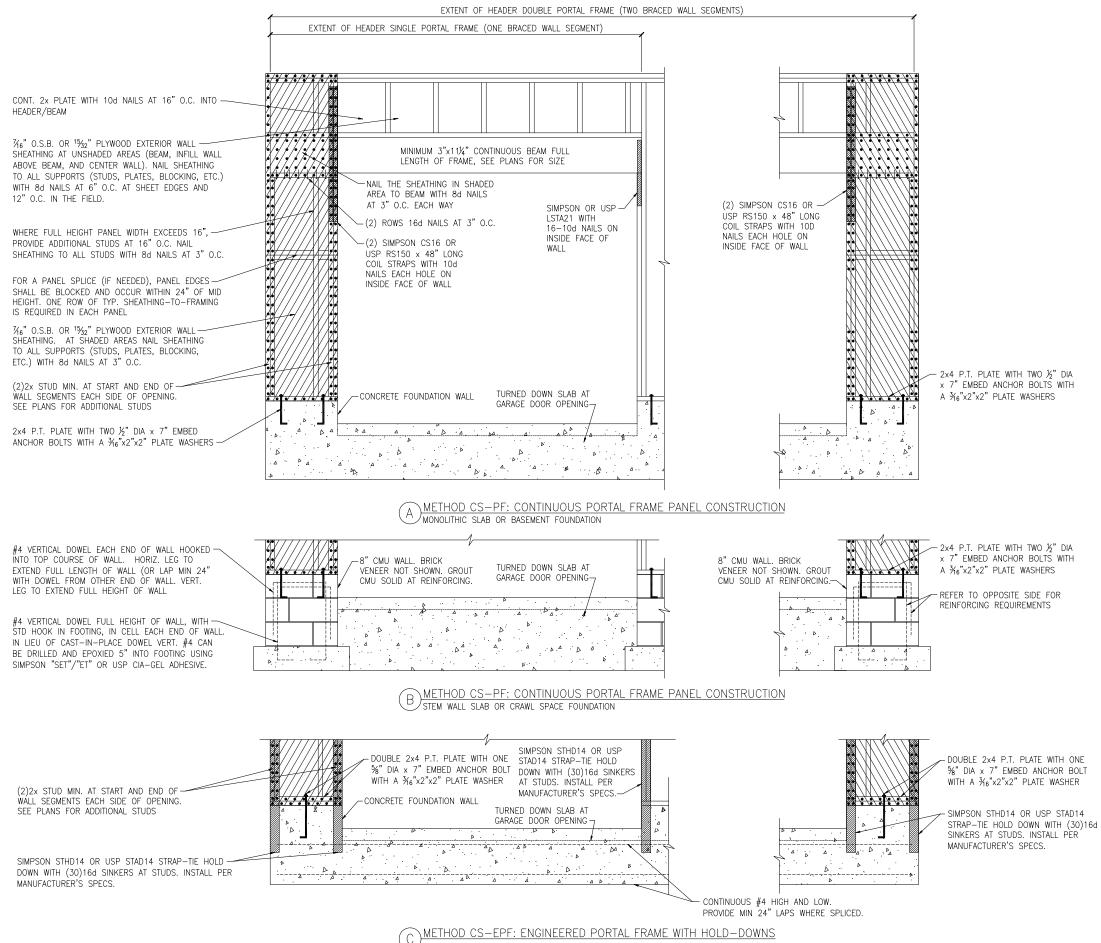
NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT PORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS

AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT PORTS, CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT ORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT PORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS

1. ALL BRACED WALL PANELS, EXCEPT GB(1) & GB(2), SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES.

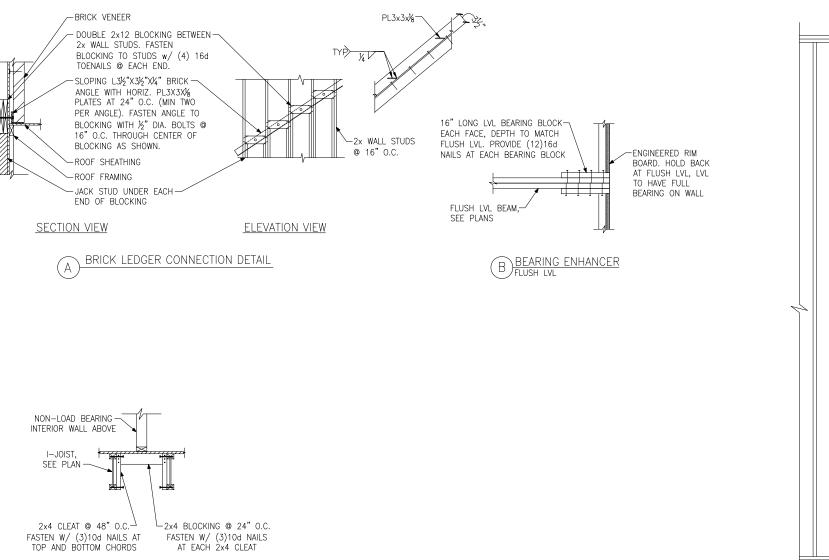


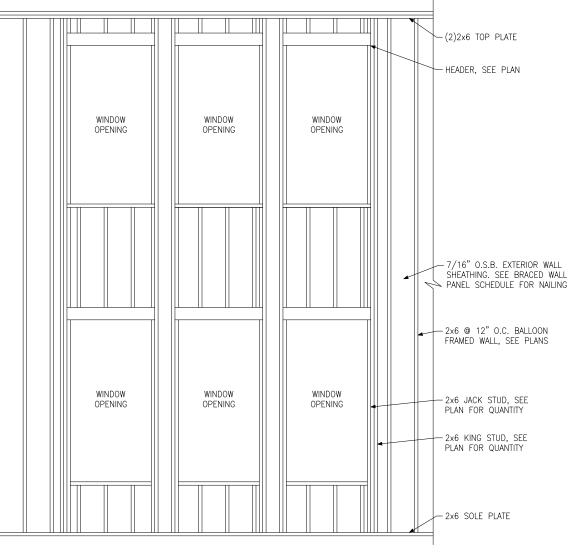
	1900 AM DRIVE, SUITE 201, QUAKERTOWI, PA 18951 www.kse-eng.com (215) 804-4449
	D-R-HORTON' America's Builder
Braced Wall Notes & Details	RH br
Project Designed	North Carolin North Carolin
Checked Issue Do Re-Issu Scale: 1 1	By: te: $6/13/22$ 4/19/23 8''=1'-0'' @ 11x17 4''=1'-0'' @ 22x34







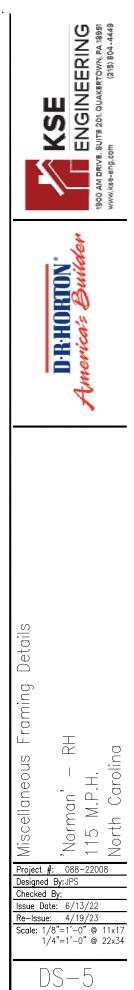


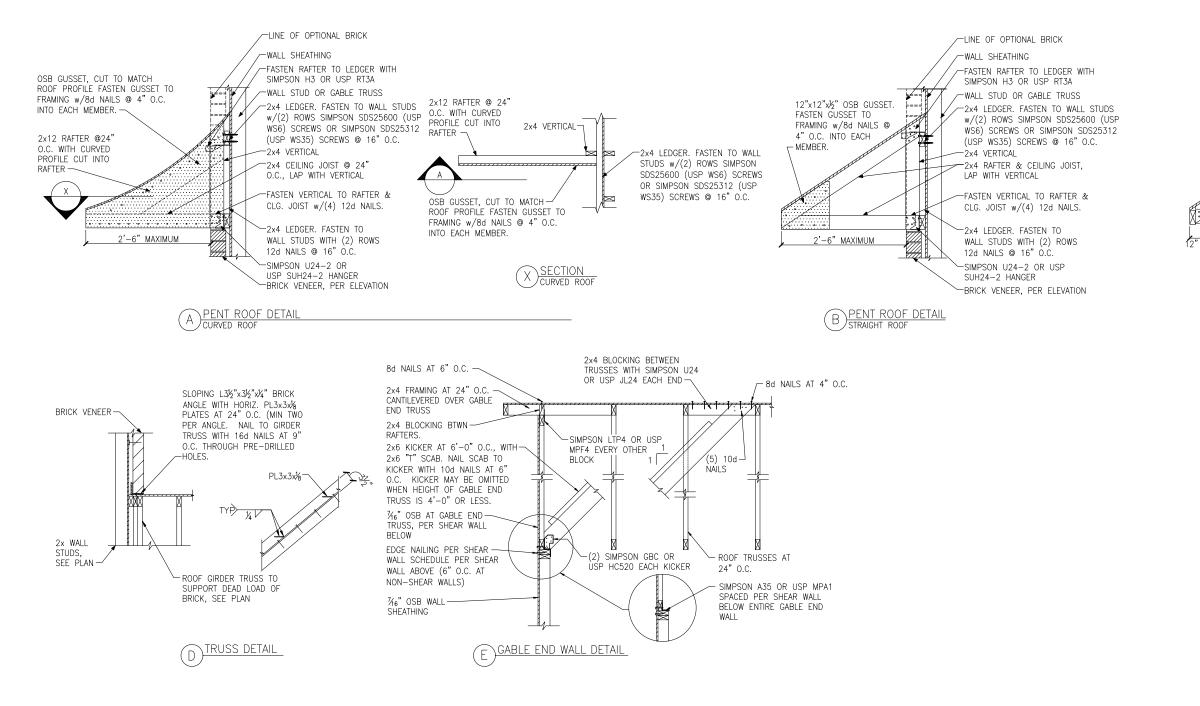


C I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS

DBALLOON FRAMED WALL DETAIL

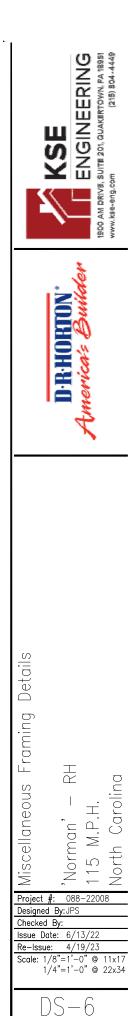




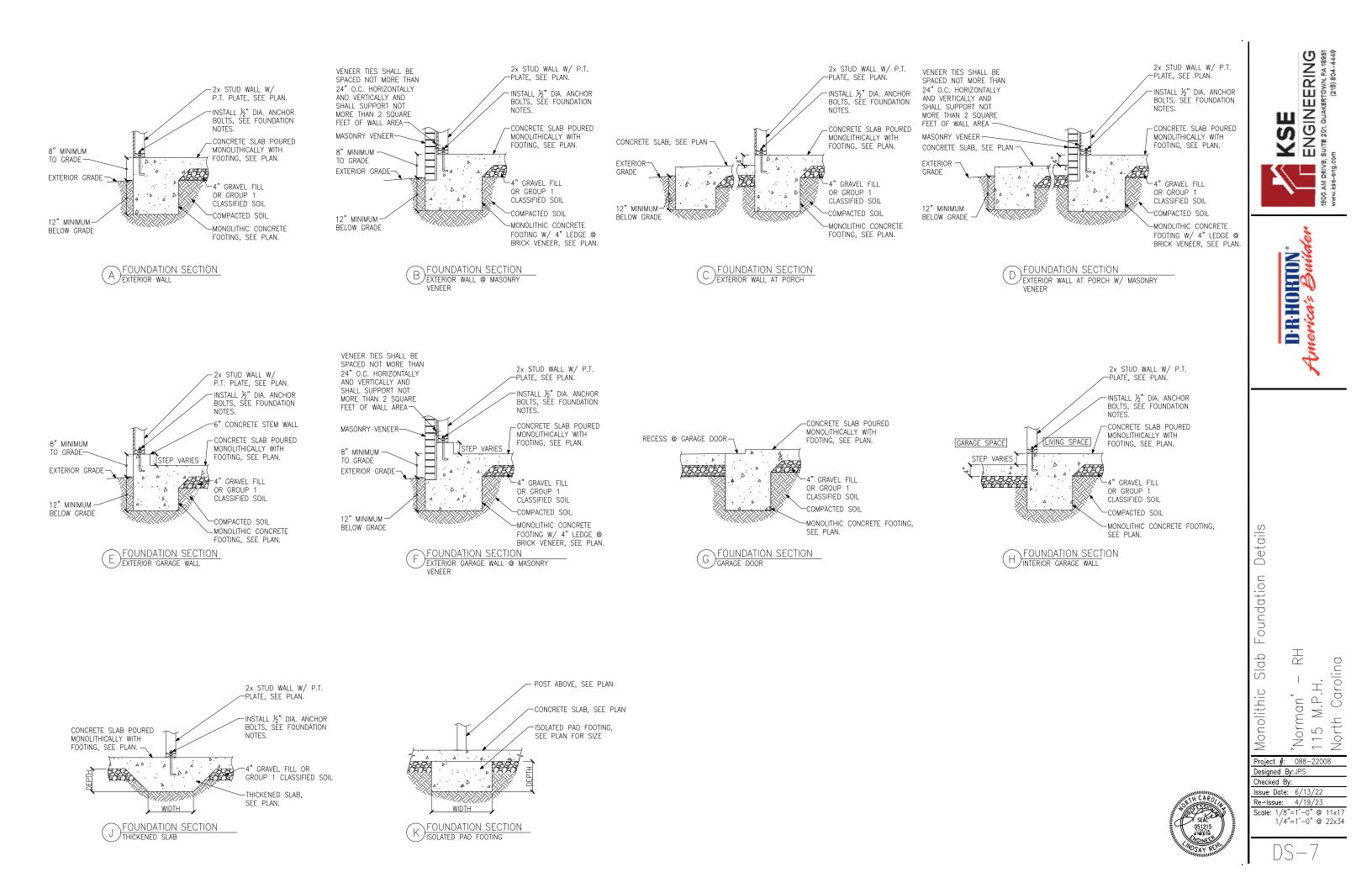


WALL STUD OR GABLE TRUSS TOENAIL RAFTER TO LEDGER WITH (4) 12d NAILS 2x4 LEDGER. FASTEN TO WALL STUDS w/(2) ROWS SIMPSON SDS25600 (USP WS6) SCREWS OR SIMPSON SDS25312 (USP WS35) SCREWS @ 16" O.C. 2x4 RAFTER & CEILING JOIST, LAP AND FACE NAIL WITH (4) 12d NAILS 2x4 LEDGER. FASTEN TO WALL OR GABLE TRUSS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

C EYEBROW ROOF DETAIL STRAIGHT ROOF







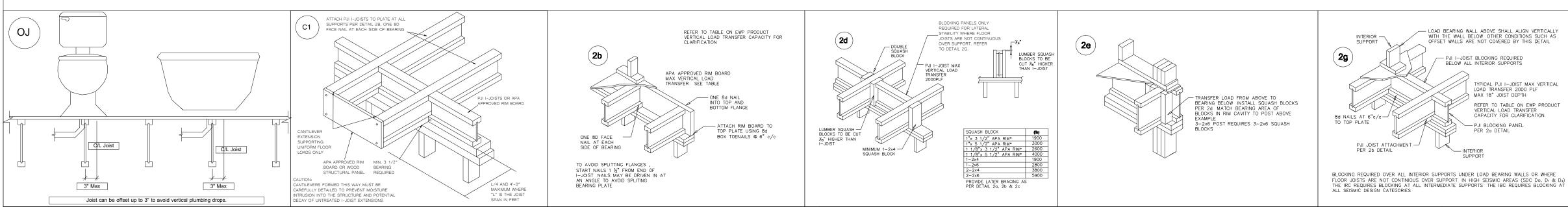
KEMPSVILLE BUILDING MATERIALS IS NOT RESPONSIBLE FOR THE DESIGN OR CALCULATION OF ANY AND ALL I-JOIST AND LVL/PSL BEAM MATERIAL. ALL ENGINEERING AND INFORMATION FOR THIS MATERIAL IS TO BE PROVIDED BY THE ENGINEER OF RECORD MARKED ON APPROVED SET OF PLANS. ALL BEAM PLACEMENTS ARE PER THE ENGINEERING RECEIVED. ALL CONNECTION DETAILS TO BE PROVIDED BY ENGINEER OF RECORD. REFER TO ENGINEER OR RECORD FOR ALL MULTI-PLY LVL/ I-JOIST CONNECTION PATTERNS. BUILDER TO VERIFY ALL MATERIAL LENGTHS, QUANTITIES, AND SIZES PRIOR TO ORDERING.

		Products		
Net Qty	Plies	Product	Length	PlotID
16	1	14" PJI-40	36' 0"	J36
14	1	14" PJI-40	22' 0"	J22
2	2	14" PJI-40	22' 0"	J22-2
18	1	14" PJI-40	20' 0"	J20
6	1	14" PJI-40	14' 0"	J14
3	1	14" PJI-40	12' 0"	J12
3	1	14" PJI-40	10' 0"	J10
2	2	14" PJI-40	6' 0"	J6-2
2	1	14" PJI-40	4' 0"	J4
2	2	2.1 RigidLam SP LVL 1-3/4 × 9-1/4	8' 0"	DB3-2
2	2	2.1 RigidLam SP LVL 1-3/4 × 11-7/8	12' 0"	DB2-2
2	2	2.1 RigidLam SP LVL 1-3/4 × 14	14' 0"	FB1-2
3	3	2.1 RigidLam SP LVL 1-3/4 x 24	22' 0"	DB4-3
17	1	1 1/8" x 14" APA Rim Board	12' 0"	RIM1
4	1	14" PJI-40	2' 0"	BP1
		Accessories		

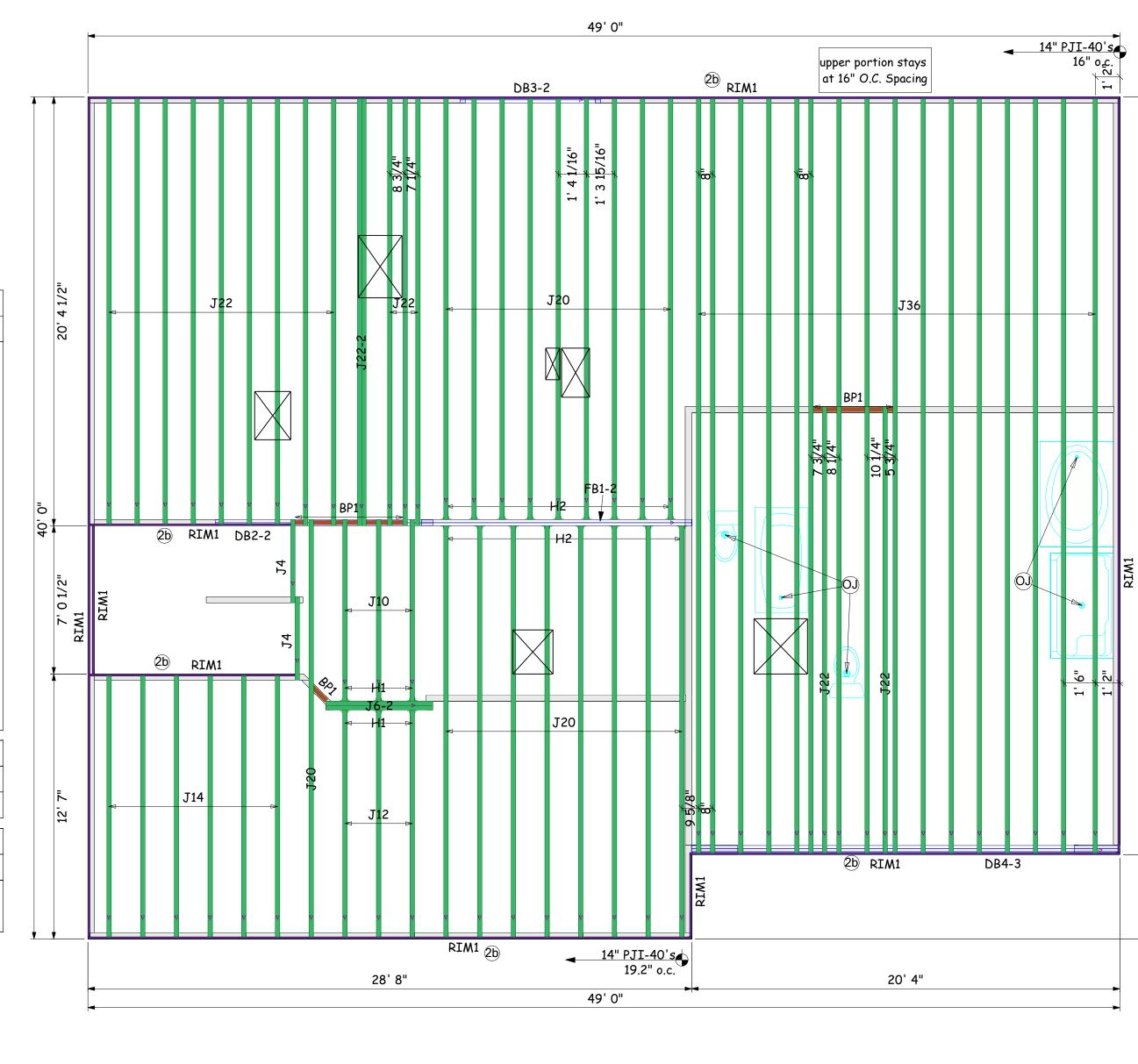
	57	1 3/4" 4>	k8 OSB		
	Con	nector Summar	у		
Web Stiff	Backer Blocks	Product	Manuf	Qty	PlotID
No	2 and Filler	IUS2.56/14	Simpson	6	H1
No	No	IUS2.56/14	Simpson	17	H2

Product Length PlotID

Net Qty Plies



** PLUMBING DROPS NOTED ARE IN APPROXIMATE LOCATIONS PER PLAN. BUILDER MUST VERY LOCATIONS BEFORE SETTING JOISTS.



** DAMAGED FLOOR JOISTS SHOULD NOT BE I	DAMAGED FLOOR JOISTS SHOULD NOT BE INSTALLED UNLESS APPROVED BY COMPONENT PLANT.	** DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.	** FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS.	JENTS.
Date: Desig	DR Horton		This is an I-Joist Placement Plan Only . All designs of I-Joist follow the IBC/IRC Code Requirements along with Manufacturer's guidelines. This is NOT an engineered	00/00 00/00 00/00 00/00
: 1/4" = // 04/2 ner: D ct #: 250 Sheet Num	89 Eagle Creek		placement plan. This placement plan is created from plans provided by the customer using Manufactures guidelines. It is the responsibility of the EOR, or builder to review and approve all bearing conditions, connections, spans, loading, product usage and quantities. Do not notch or drill holes in beams or	0/00 0/00 0/00
5/25 W 040191	FLOOR JOIST LAYOUT	Lumber		ons Name Name Name Name Name

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TOP OR FACE -MOUNT HANGER

S X Y Ì

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2ND FLOOR LAYOUT

J = I-Joist

FB = Flush Beam

RB = Roof Beam

DB = Dropped Beam

BP = Blocking Panels

SB = Squash Blocks

LABEL LEGEND

BBO = Beam by Others

PBO = Post by Others

GBO = Girder by Others

BEFORE INSTALLING A BACKER BLOCK TO A DOUBLE I-JOIST, DRIVE 3 ADDITIONAL 10d NAILS THROUGH WEBS AND FILLER BLOCK WHERE THE BACKER BLOCK WILL FIT CLINCH INSTALL BACKER TIGHT TO TOP FLANGE USE 12 10d NAILS, CLINCH WHEN POSSIBLE, MAX CAPACIY FOR HANGER FOR THIS DETAIL IS 1280 LBS

- DOUBLE PJI I-JOIST HEADER

FOR HANGER CAPACITY SEE HANGER MAUNFACTURES RECOMMENDATIONS VERIFY DOUBLE PJI I-JOIST CAPACITY TO SUPPORT CONCENTRATED LOADS

<u>NOTE</u> UNLESS HANGER SIDES LATERALLY SUPPORT THE TOP FLANGE, BEARING STIFFENERS SHALL BE USED