

THE NELSON 2020 -'EURO' LH



ELEV. 'EURO' AREA		AREA OPTIONS		
Name	Area	Name	Area	
FIRST FLOOR	1042 SF	OPT. FINISHED 3RD FLOOR	456 SF	
SECOND FLOOR	1333 SF	HEATED	456 SF	
HEATED	2374 SF			
		OPT. COVERED PATIO/DECK	176 SF	
FRONT PORCH	103 SF	OPT. 3RD CAR GARAGE	247 SF	
GARAGE	401 SF	UNHEATED	422 SF	
REAR PATIO	179 SF		<u> </u>	
UNFINISHED THIRD FLOOR	451 SF			
UNHEATED	1136 SF			

	4	
NO:	DATE:	REVISION:

PROJECT TITLE

THE NELSON 2020 - 'EURO' LH

CONSTRUCTION SET

LOT 1126 -ANDERSON CREEK **IACADEMY**

PROJECT NO:

SHEET TITLE:

COVER SHEET

PRINT DATE:

05.12.2020

T-1

GENERAL NOTES:

DUPLICATED, ALTERED, MODIFIED OR REVISED IN ANY WAY WITHOUT THE EXPRESSED WRITTEN APPROVAL OF THE BUILDER.

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

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

ALL ANGLED PARTITIONS ARE 45 DEGREES UNLESS OTHERWISE NOTED. PROVIDE FIREBLOCKING. (PER LOCAL CODES.)

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

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 BOOMS, VERIEY LOCATIONS AT FRAMING WALK.

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

TO THE BEST OF THE BUILDER'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 BUILDER 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.

GEOTECHNICAL ENGINEER (SOILS REPORT), ON THE STUDY OF THE PROPOSED SITE TO THE BUILDER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR, IN THE EVENT THE GEOTECHNICAL REPORTS DO NOT EXIST. THE SOILS CONDITION SHALL EVENT I THE GEOTECHINGLE HEPORTS DO NOT EAST, 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 CONTRACT THE CRITERIA.

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

WINDOW SUPPLIER TO VERIEY AT LEAST ONE WINDOW IN ALL REDROOMS TO HAVE A CLEAR WINDOWS SUFFICIENT VENIET AT THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 22" AND THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 22" AND THE MINIMUM NET CHEAR OPENING HEIGHT SHALL BE 22" AND THE MINIMUM NET OF THE MENT WITH SHALL BE 20". GLAZING TOTAL AREA OF NOT LESS THAN 5.0 S OF IT NOT LESS THAN 5.0 S OF THE MENT CASE OF AN UPPER STORY WINDOW. (PER NORC SECTION R310.1.1)
ALL HANDRAIL BALLUSTERS TO BE SPACED SUCH THAT A 4" SPHERE CANNOT PASS

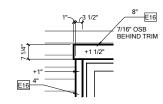
BETWEEN BALLUSTERS, (PER LOCAL CODES.) PROVIDE STAIR HANDRAILS AND GUARDRAILS PER LOCAL CODES.

BUILDER SET:

THE SCOPE OF THIS SET OF PLANS IS TO PROVIDE A "BUILDER'S SET" THE SCOPE OF THIS SET OF PLANS IS TO PROVIDE A "PULLIDERS 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 SECURITY OF ANY PRODUCTS OR OTHER METHODS OF ANY SECURITY OF METHOD AND THE INDICATOR TO THE METHOD SO IT ANY SECURITY. 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, REQULATIONS, MANUFACTURERS RECOMMENDATIONS OR HOUSETRY 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 AND FORLICT WITH THE MOST STRINGENT REQUIREMENT, WHERE THE REQUIREMENT SHOPLICT WITH THE MOST STRINGENT REQUIREMENT, WHERE REQUIREMENTS ARE DIFFERENT BUT APPARENTLY COULAL, AND WHERE IT IS IN OCERTAIN WHICH REQUIREMENT IS MOST STRINGENT, OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING.

SCALE IS NOTED ON INDIVIDUAL PLAN TITLES. NCGS 83A-13(e) COMPLIANCE: CORPORATE OFFICER ADDRESS



GAR. HEAD TRIM

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 CONTROL DEVICES COMPLYING WITH THE 2018 NCRC SECTION R3122.

-GRADE CONDITIONS MAY VARY FOR INDIVIDUAL SITE FROM THAT SHOWN. BUILDER SHALL VERIFY AND COORDINATE PER ACTUAL SITE CONDITIONS.

-WINDOW HEAD HEIGHTS: 1ST 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 BUILDER. INSTALL ALL LOW SLOPE ROOFING IN ACCORDANCE WITH R905 AND MANUFACTURERS SPECS.

WINDOWS: MANUFACTURER PER BUILDER, DIVIDED LITES AS SHOWN ON THE EXTERIOR ELEVATIONS

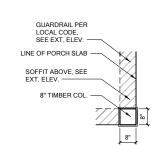
ENTRY DOOR: AS SELECTED BY BUILDER

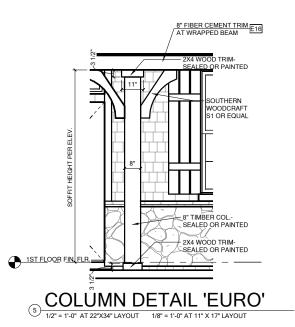
CHIMNEY AS OCCURS: TOP OF CHIMNEYS TO BE A MINIMUM OF 24" ABOVE ANY ROOF WITHIN 10'-0" OF CHIMNEY.

-ALL EXTERIOR MATERIALS TO BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

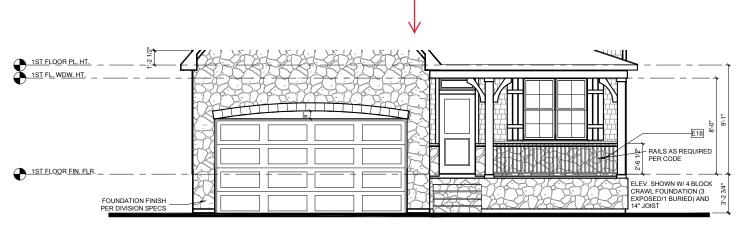
ELEVATION KEYNOTE LEGEND

- ADHERED STONE VENEER AS SELECTED BY DEVELOPER, HEIGHT AS NOTED. PROVIDE CONT. FLASHING MIN. 4" ABOVE GRADE THROUGH MASONRY VENEER
 MASONRY FULL BRICK AS SELECTED BY DEVELOPER, HEIGHT AS NOTED
 ROWLOCK COURSE
- ROWLOCK COURSE
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 OORNOLOCK COURSE
 BE INSTALLED AT ALL ROOF WALL INTERSECTIONS
 IF INSTALLED AT ALL ROOF WALL INTERSECTIONS
 IF IFIER CEMENT SHAKE SIDING PER DEVELOPER W: 544x4 CORNER TRIM BOARDS
 IFIBER CEMENT LAP SIDING PER DEVELOPER W: 54x4 CORNER TRIM BOARDS
- FIBER CEMENT PANEL SIDING W/ 1X3 BATTS AT 16" O.C. (VINYL BOARD AND BATTEN SIDING)
- | SIDING| SIDING| SIX FIBER CEMENT TRIM OR EQUAL, U.N.O. SIZE AS NOTED. PROVIDE CAP FLASHING AS REQUIRED FOR ALL TRIM W/ AN EXPOSED TOP EDGE. FALSE WOOD/VINYL SHUTTERS, TYPE AS SHOWN, SIZE AS NOTED
- E18 PROVIDE GUARDRAIL PER NCRC SECTION R312



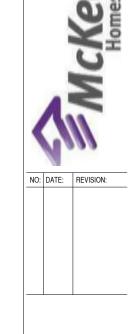






CRAWL FOUNDATION

FRONT ELEVATION 'EURO' W/ 3 CRAWL SPACE



PROJECT TITLE:

THE NELSON 2020 - 'EURO' LH

CONSTRUCTION SET

LOT 1126 -ANDERSON CREEK ACADEMY

PROJECT NO:

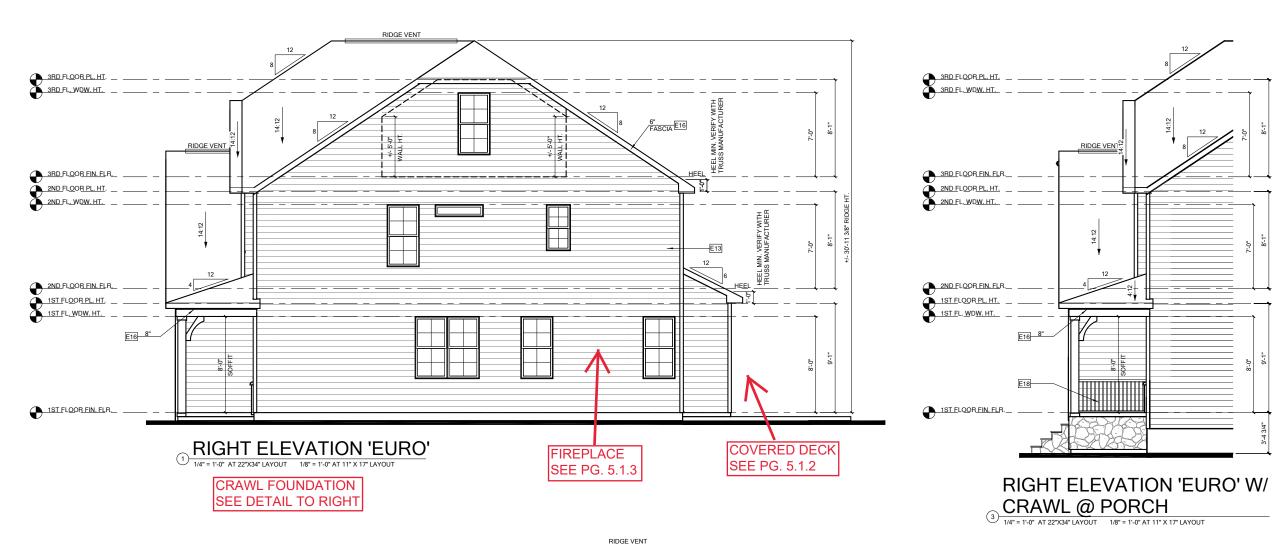
SHEET TITLE:

FRONT ELEVATIONS 'EURO'

PRINT DATE: 05.12.2020

SHEET NO:

1.1.1



ALL WINDOWS WHOSE OPENING IS LESS THAN 24" ABOVE THE FINISH FLOOR AND WHOSE OPENING IS GREATER THAN 72" ABOVE THE OUTSIDE WALKING SUFFACE MUST HAVE WINDOW OPENING CONTROL DEVICES COMPLYING WITH THE 2018 NCRC SECTION R312.2.

-GRADE CONDITIONS MAY VARY FOR INDIVIDUAL SITE FROM THAT SHOWN. BUILDER SHALL VERIFY AND COORDINATE PER ACTUAL SITE CONDITIONS.

-WINDOW HEAD HEIGHTS: 1ST 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 BUILDER. INSTALL ALL LOW SLOPE ROOFING IN ACCORDANCE WITH R905 AND MANUFACTURERS SPECS.

-WINDOWS: MANUFACTURER PER BUILDER. DIVIDED LITES AS SHOWN ON THE EXTERIOR ELEVATIONS

-ENTRY DOOR: AS SELECTED BY BUILDER

-CHIMNEY AS OCCURS: TOP OF CHIMNEYS TO BE A MINIMUM OF 24" ABOVE ANY ROOF WITHIN 10'-0" OF CHIMNEY.

-ALL EXTERIOR MATERIALS TO BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

ELEVATION KEYNOTE LEGEND

- ADHERED STONE VENEER AS SELECTED BY DEVELOPER, HEIGHT AS NOTED. PROVIDE CONT. FLASHING MIN. 4" ABOVE GRADE THROUGH MASONRY VENEER MASONRY FULL BRICK AS SELECTED BY DEVELOPER, HEIGHT AS NOTED ROWN OF COURSE

- ES ROWLOCK COURSE

 E9 CORROSION RESISTANT ROOF TO WALL FLASHING, CODE COMPLIANT FLASHING MUST
 BE INSTALLED AT ALL ROOF/WALL INTERSECTIONS

 E12 FIBER CEMENT SHAKE SIDING PER DEVELOPER WI 5/4x4 CORNER TRIM BOARDS

 E13 FIBER CEMENT LAP SIDING PER DEVELOPER WI 5/4x4 CORNER TRIM BOARDS

 E15 FIBER CEMENT PANEL SIDING WI 1X3 BATTS AT 16° O.C. (VINYL BOARD AND BATTEN SIDING)

 E16 IX FIBER CEMENT TRIM OR EQUAL, U. N.O. SIZE AS NOTED, PROVIDE CAP FLASHING AS REQUIRED FOR ALL TRIM WI AN EXPOSED TOP EDGE.

 E17 FALSE WOOD/VINYL SHUTTERS, TYPE AS SHOWN, SIZE AS NOTED

 E18 PROVIDE GUARDRAIL PER NORC SECTION R312



PROJECT TITLE:

THE NELSON 2020 - 'EURO' LH

NO: DATE: REVISION:

CONSTRUCTION SET

LOT 1126 -ANDERSON CREEK ACADEMY

PROJECT NO:

SHEET TITLE:

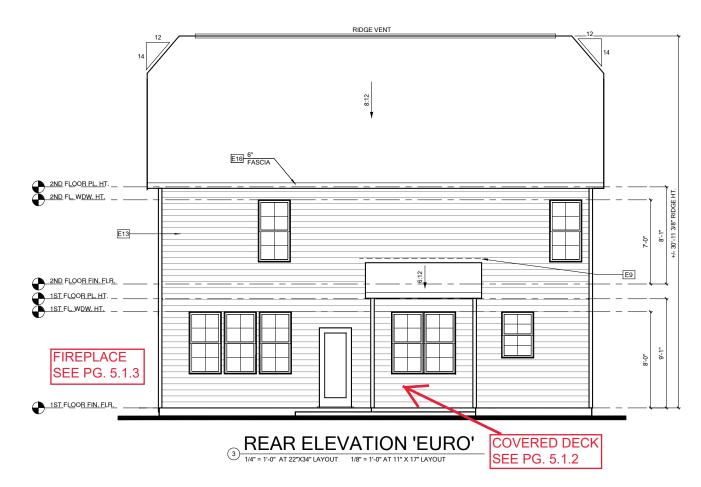
SIDE **ELEVATIONS** 'EURO'

PRINT DATE: 05.12.2020

SHEET NO:

1.2.1

2 LEFT ELEVATION 'EURO'
1/4" = 1'-0" AT 22"X34" LAYOUT 1/8" = 1'-0" AT 11" X 17" LAYOUT



ALL WINDOWS WHOSE OPENING IS LESS THAN 24" ABOVE THE FINISH FLOOR AND WHOSE OPENING IS GREATER THAN 72" ABOVE THE OUTSIDE

NOTES:

-GRADE CONDITIONS MAY VARY FOR INDIVIDUAL SITE FROM THAT SHOWN BUILDER SHALL VERIFY AND COORDINATE PER ACTUAL SITE CONDITIONS

1ST FLOOR = 8'-0" U.N.O. ON ELEVATIONS

2ND FLOOR = 7'-0" U.N.O. ON FLEVATIONS

BRD FLOOR = 7'-0" U.N.O. ON ELEVATIONS

ROOFING: PITCHED SHINGLES PER BUILDER. INSTALL ALL LOW SLOPE ROOFING IN ACCORDANCE WITH R905 AND MANUFACTURERS SPECS.

WINDOWS: MANUFACTURER PER BUILDER. DIVIDED LITES AS SHOWN ON THE EXTERIOR ELEVATIONS

ENTRY DOOR: AS SELECTED BY BUILDER

-CHIMNEY AS OCCURS: TOP OF CHIMNEYS TO BE A MINIMUM OF 24" ABOVE

-ALL EXTERIOR MATERIALS TO BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

ELEVATION KEYNOTE LEGEND

ADHERED STONE VENEER AS SELECTED BY DEVELOPER, HEIGHT AS NOTED. PROVIDE CONT. FLASHING MIN. 4" ABOVE GRADE THROUGH MASONRY VENEER

MASONRY FULL BRICK AS SELECTED BY DEVELOPER, HEIGHT AS NOTE ROWLOCK COURSE

CORROSION RESISTANT ROOF TO WALL FLASHING, CODE COMPLIANT FLASHING MUST BE INSTALLED AT ALL ROOF/WALL INTERSECTIONS
FIBER CEMENT SHAKE SIDING PER DEVELOPER W/5/4x4 CORNER TRIM BOARDS

B FIBER CEMENT LAP SIDING PER DEVELOPER W/ 5/4x4 CORNER TRIM BOARDS
FIBER CEMENT PANEL SIDING W/ 1X3 BATTS AT 16" O.C. (VINYL BOARD AND BATTEN SIDING)

| SILDINGS|
| SILD

1/150 RATIO:

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

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 DEVELOPER, AT ALL CANTILEVERED FLOORS, CANTILEVERED DECORATIVE PROJECTIONS, AND ANY DOUBLE FRAMING PROJECTIONS THAT ARE SEPARATED FROM THE VENTING CALCULATIONS SHOWN ABOVE, PROVIDED A CONTINUOUS OF CONDROVERS. PROVIDE A CONTINUOUS 2" CORROSION RESISTANT SOFFIT VENT AT UNDERSIDE OF FRAMED FLEMENT

1/300 RATIO:

AS AN ALTERNATE TO THE 1/150 RATIO LISTED, THE NET FREE CROSS-VENTILATION AREA MAY BE REDUCED TO 1/300 WHEN A VAPOR BARRIER IS HAVING A TRANSMISSION RATE NOT EXCEEDING I-PERM INSTALLED ON THE WARM-IN-WINTER SIDE OF THE CEILING.

GENERAL CONTRACTOR SHALL VERIFY THE NET FREE 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 DEVELOPER, AT ALL CANTILEVERED FLOORS, CANTILEVERED DECORATIVE PROJECTIONS, 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.

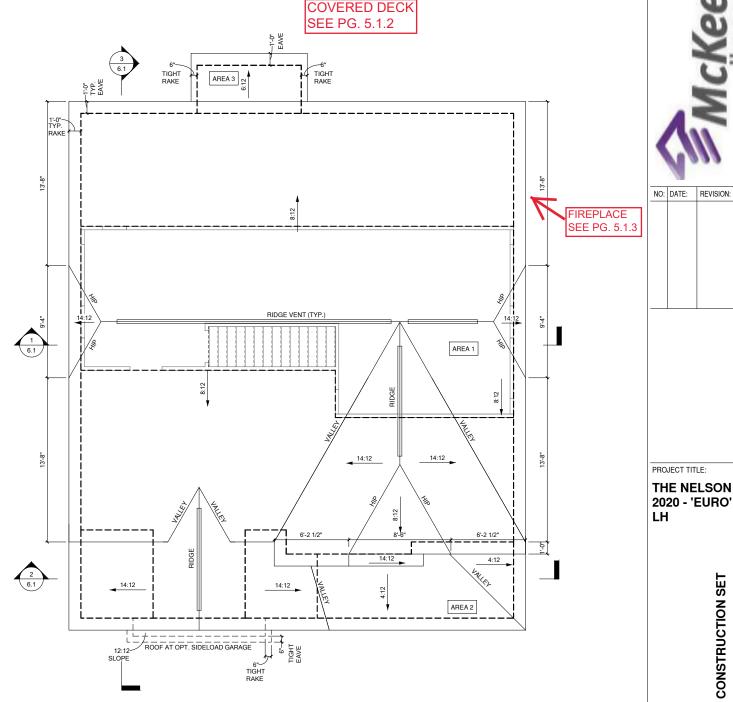
NOTES:

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

 AND AND CASE WALL BELOW.

 AND COMMENT OF THE WALL
- DASHED LINES INDICATE WALL BELOW. LOCATE GUTTER AND DOWNSPOUTS PER
- BUILDER. PITCHED ROOFS AS NOTED.
- TRUSS MANUFACTURER SHALL SUBMIT STRUCTURAL CALCS AND SHOP DRAWING 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.

	ROOF VENT CALC. ELEV. 'EURO'					
Name	Area	1/300 RATIO AT HIGH & LOW	1/150 RATIO AT HIGH & LOW			
AREA 1	1277 SF	306.56 in ²	613.12 in ²			
AREA 2	235 SF	56.32 in ²	112.64 in ²			
AREA 3	35 SF	8.32 in ²	16.64 in²			
AREA 4	247 SF	59.20 in ²	118.40 in ²			
ARFA 5	214 SF	51.38 in ²	102.76 in ²			



ROOF PLAN 'EURO'

LOT 1126 -ANDERSON CREEK **ACADEMY**

CONSTRUCTION SET

PROJECT NO:

SHEET TITLE:

REAR ELEV W/ ROOF PLAN 'EURO'

> PRINT DATE: 05.12.2020

SHEET NO:

1.3.1

FULL HEIGHT 2X4 WOOD STUD PARTITION

STONE VENEER

BRICK VENEER

STUD WALL BELOW HEIGHT AND STUD SIZE AS NOTED

FULL HEIGHT 2X6 WOOD STUD PARTITION DRYWALL OPENING HEIGHT AS NOTED ON PLAN

FULL HEIGHT
CMU WALL, SIZE AS NOTE

FULL HEIGHT POURED CONCRETE WALL, SIZE AS NOTED

BENEATH STAIRS AND LANDINGS. 1/2" GYPSUM BOARD ON WALLS AND CEILING OF ENCLOSE! ACCESSIBLE AREAS

GAS WATER HEATER ON 18" HIGH PLATFORM

PRE-FABRICATED METAL FIREPLACE, INSTALL PER MANUFACTURER WRITTEN INSTRUCTIONS TEMPERED SAFETY GLASS

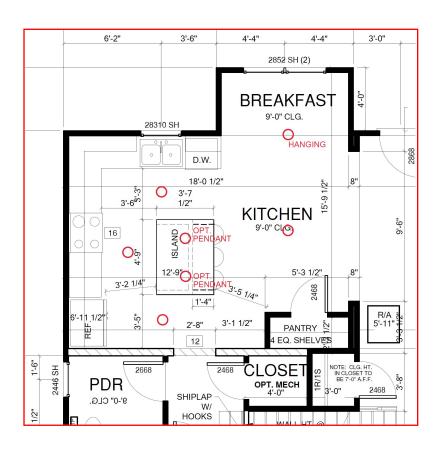
FLOOR PLAN KEYNOTE LEGEND

HOUSE TO GARAGE FIRE SEPARATION, GARAGE/HOUSE SEPARATION AT VERTICAL SURFACES SHALL BE PROTECTED WITH ONE (1) LAYER 1/2" GYPSUM BOARD, GARAGE/HOUSE SEPARATION AT HORIZONTAL SURFACES SHALL BE PROTECTED WITH ONE (1) LAYER 1/8" TYPE "Z GYPSUM BOARD. WITH HABITABLE SPACE ABOVE GARAGE, ALL WALLS REQUIRE MINIMUM 1/2 INCH GB. (PER NCRC TABLE R302.6).

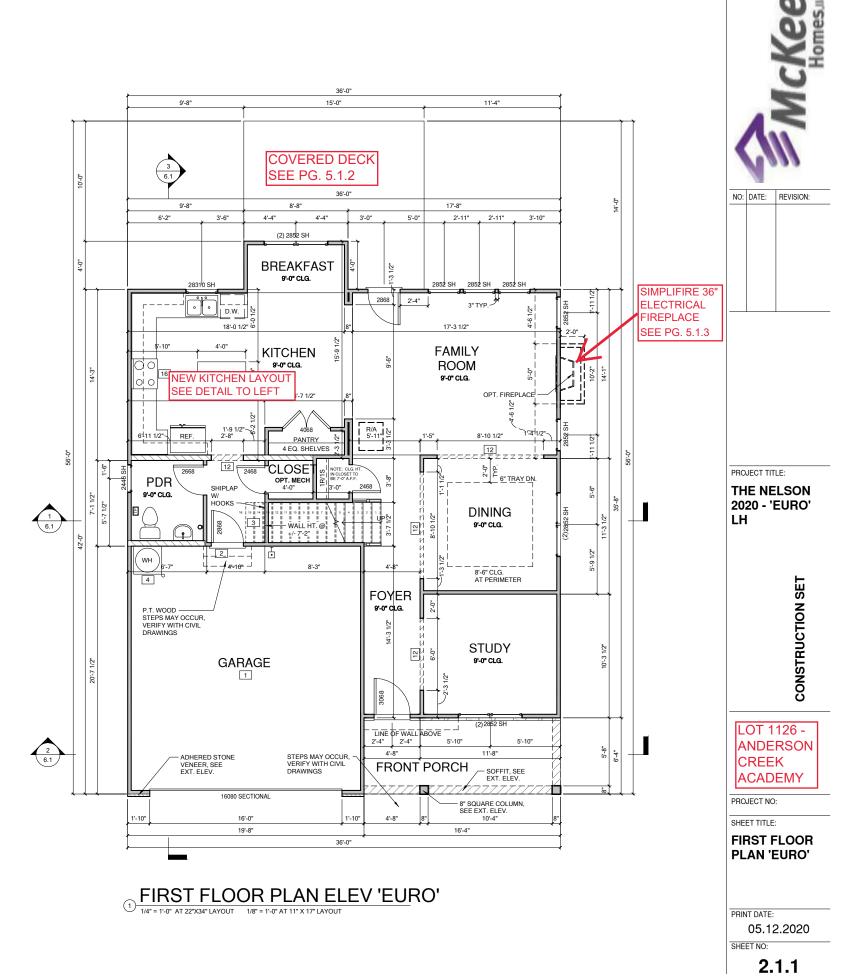
HOUSE TO GARAGE DOOR SEPARATION. PROVIDE 1 3/8" SOLID CORE DOOR OR APPROVED 20 MINUTE

HALF WALL, HEIGHT AS NOTED INTERIOR SOFFITS: FFL = 7'-8" U.N.O. SFL = 7'-6" U.N.O., OPT. CASED OPENING U.N.O. SHOWER, TEMPERED GLASS ENCLOSURE

SLIDE-IN ELECTRICAL RANGE W/ HOOD AND MICRO ABV. VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS ACCESS HATCH/DOOR. FULLY WEATHER STRIPPED AND INSULATED. (PER NCRC SECTION N1102.2.



NEW KITCHEN & LIGHTING LAYOUT: ISLAND IS TURNED 90 DEGREES; REF. AGAINST EXTERIOR WALL: PANTRY SMALLER W/ ONLY ONE DOOR



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

DRYWALL OPENING HEIGHT AS NOTED ON PLAN STONE VENEER

BRICK VENEER

FULL HEIGHT POURED CONCRETE WALL, SIZE AS NOTED

STUD WALL BELOW HEIGHT AND STUD SIZE AS NOTED

FULL HEIGHT

FLOOR PLAN KEYNOTE LEGEND

HOUSE TO GARAGE FIRE SEPARATION, GARAGE/HOUSE SEPARATION AT VERTICAL SURFACES SHALL BE PROTECTED WITH ONE (1) LAYER 1/2" GYPSUM BOARD. GARAGE/HOUSE SEPARATION AT HORIZONTAL SURFACES SHALL BE PROTECTED WITH ONE (1) LAYER 5/8" TYPE "X" GYPSUM BOARD. WITH HABITABLE SPACE ABOVE GARAGE, ALL WALLS REQUIRE MINIMUM 1/2 INCH GB. (PER NCRC TABLE R302.6). HOUSE TO GARAGE DOOR SEPARATION. PROVIDE 1 3/8" SOLID CORE DOOR OR APPROVED 20 MINUTE RATED DOOR

BENEATH STAIRS AND LANDINGS. 1/2" GYPSUM BOARD ON WALLS AND CEILING OF ENCLOSED ACCESSIBLE ABEAS.

PRE-FABRICATED METAL FIREPLACE, INSTALL PER MANUFACTURER WRITTEN INST TEMPERED SAFETY GLASS

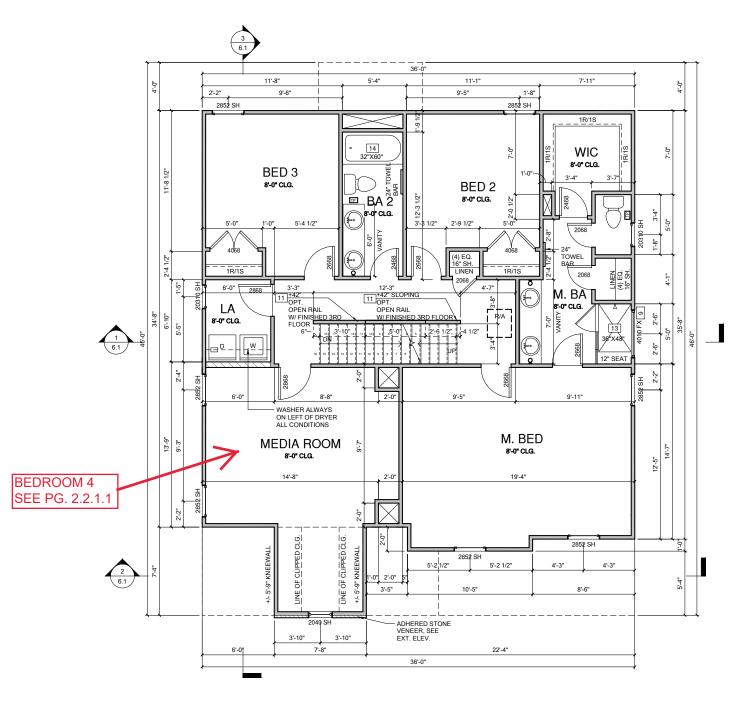
HALF WALL, HEIGHT AS NOTED

INTERIOR SOFFITS: FFL = 7-8" U.N.O. SFL = 7-6" U.N.O., OPT. CASED OPENING U.N.C.
SHOWER, TEMPERED GLASS ENCLOSURE

TUB-SHOWER COMBO

ACRYLIC TUB W/ PLATFORM, SIZE AS NOTED
SUDE-IN ELECTRICAL RANGE W/ HOOD AND MICRO ABV. VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS

ACCESS HATCH/DOOR, FULLY WEATHER STRIPPED AND INSULATED. (PER NCRC SECTION N1102.2.4)



SECOND FLOOR PLAN ELEV 'EURO' 1) 1/4" = 1'-0" AT 22"X34" LAYOUT 1/8" = 1'-0" AT 11" X 17" LAYOUT



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CONSTRUCTION SET

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SECOND FLOOR PLAN 'EURO'

PRINT DATE: 05.12.2020

SHEET NO:

2.2.1

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

STONE VENEER DRYWALL OPENING HEIGHT AS NOTED ON PLAN

FULL HEIGHT BRICK VENEER

POURED CONCRETE WALL, SIZE AS NOTED STUD WALL BELOW HEIGHT AND STUD SIZE AS NOTED

FULL HEIGHT CMU WALL, SIZE AS NOTED

FLOOR PLAN KEYNOTE LEGEND

HOUSE TO GARAGE FIRE SEPARATION, GARAGE/HOUSE SEPARATION AT VERTICAL SURFACES SHALL BE PROTECTED WITH ONE (1) LAYER 1/2" GYPSUM BOARD, GARAGE/HOUSE SEPARATION AT HORIZONTAL SURFACES SHALL BE PROTECTED WITH ONE (1) LAYER 5/8" TYPE "X" GYPSUM BOARD. WITH HABITABLE SPACE ABOVE GARAGE, ALL WALLS REQUIRE MINIUM 1/2 INCH GB, (PER NORC TABLE R30.5). HOUSE TO GARAGE DOOR SEPARATION. PROVIDE 1 3/8" SOLID CORE DOOR OR APPROVED 20 MINUTE RATED DOOR

BENEATH STAIRS AND LANDINGS. 1/2" GYPSUM BOARD ON WALLS AND CEILING OF ENCLOSED ACCESSIBLE AREAS

GAS WATER HEATER ON 18" HIGH PLATFORM

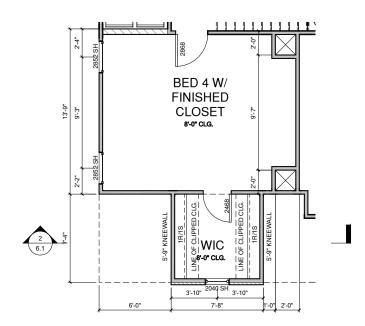
PRE-FABRICATED METAL FIREPLACE, INSTALL PER MANUFACTURER WRITTEN INSTRUCTIONS

TEMPERED SAFETY GLASS

1 HALF WALL, HEIGHT AS NOTED

INTERIOR SOFFITS: FFL = 7-8" U.N.O. SFL = 7-6" U.N.O., OPT. CASED OPENING U.N.O.

3 SHOWER, TEMPERED GLASS ENCLOSURE



OPT. BED 4 W/ FINISHED CLOSET 'EURO'
1/4" = 1'-0" AT 22"X34" LAYOUT 1/8" = 1'-0" AT 11" X 17" LAYOUT



NO:	DATE:	REVISION:

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THE NELSON 2020 - 'EURO' LH

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LOT 1126 -ANDERSON CREEK ACADEMY

PROJECT NO:

SHEET TITLE:

SECOND FLOOR PLAN OPTIONS

> PRINT DATE: 05.12.2020

SHEET NO:

2.2.1.1

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

DRYWALL OPENING HEIGHT AS NOTED ON PLAN STONE VENEER

FULL HEIGHT BRICK VENEER POURED CONCRETE WALL, SIZE AS NOTED STUD WALL BELOW HEIGHT AND STUD SIZE AS NOTED

FULL HEIGHT
CMU WALL, SIZE AS NOTED

FLOOR PLAN KEYNOTE LEGEND

	HOUSE TO GARAGE FIRE SEPARATION, GARAGE/HOUSE SEPARATION AT VERTICAL SURFACES SHALL BI PROTECTED WITH ONE (1) LAYER 1/2" GYPSUM BOARD. GARAGE/HOUSE SEPARATION AT HORIZONTAL SURFACES SHALL BE PROTECTED WITH ONE (1) LAYER 5/8" TYPE "X" GYPSUM BOARD. WITH HABITABLE SPACE ABOVE GARAGE, ALL WALLS REQUIRE MINIMUM 1/2 INCH GB. (PER NCRC TABLE R302.6).
	HOUSE TO GARAGE DOOR SEPARATION. PROVIDE 1 3/8" SOLID CORE DOOR OR APPROVED 20 MINUTE RATED DOOR
	BENEATH STAIRS AND LANDINGS. 1/2" GYPSUM BOARD ON WALLS AND CEILING OF ENCLOSED ACCESSIBLE AREAS
4	CAS WATER HEATER ON 18" HIGH REATEORM

ACCESSIBLE AREAS

GAS WATER HEATER ON 18" HIGH PLATFORM

PRE-FABRICATED METAL FIREPLACE, INSTALL PER MANUFACTURER WRITTEN INSTRUCTIONS

TEMPERED SAFETY GLASS

HALF WALL, HEIGHT AS NOTED

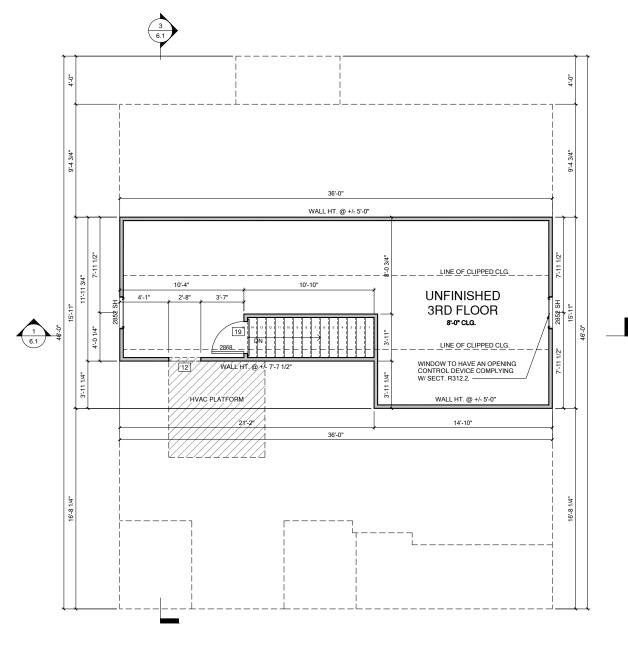
INTERIOR SOFFITS: FFL = 7".8" U.N.O. SFL = 7"-6" U.N.O., OPT. CASED OPENING U.N.O.

SHOWER, TEMPERED GLASS ENCLOSURE

TUB-SHOWER COMBO

ACRYLIC TUB W/ PLATFORM, SIZE AS NOTED

ACCESS HATCH/DOOR. FULLY WEATHER STRIPPED AND INSULATED. (PER NCRC SECTION N1102.2.4)



UNFINISHED 3RD FLOOR 1/4" = 1·0" AT 22"X34" LAYOUT 1/8" = 1·0" AT 11" X 17" LAYOUT



NO:	DATE:	REVISION:
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PROJECT TITLE:

THE NELSON 2020 - 'EURO' LH

CONSTRUCTION SET



PROJECT NO:

SHEET TITLE:

THIRD FLOOR PLAN

PRINT DATE: 05.12.2020

SHEET NO:

2.3.1

CRAWL SPACE NOTES FOR NORTH CAROLINA:

REFER TO STRUCTURAL DRAWINGS FOR INFORMATION NOT SHOWN ON THIS PLAN

FOR ADDITIONAL NOTES SEE GENERAL NOTES ON TITLE SHEET AND DETAILS.

PROVIDE FIREBLOCKING. (PER NCRC SECTION R602.8)

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

-VERIFY ALL DOOR THRESHOLD HEIGHTS TO HARD S URFACES. 8 1/4" MAX AT INSWING DOORS. (PER NCRC SECTION R311.3.1)

-SLOPE ALL STOOPS AND HARDSCAPE MATERIAL AWAY FROM BUILDING - TYPICAL.

-SLOPE GARAGE FLOOR 1/8" PER FOOT TO GARAGE DOOR OPENING.

VERIEY CURB CUT BLOCKOUT WITH GARAGE DOOR MANUEACTURER

REFER TO CIVIL DRAWINGS FOR FINISH SURFACE ELEVATIONS

-TYP. STOOP AT INSWING/SLIDER DOORS: 36" DEEP BY THE WIDTH OF THE DOOR SERVED, MINIMUM (PER NCRC SECTIONS R311.3) PROVIDE A SLIP-RESISTANT FINISH.

1901GS I TREATMENT:
100% GROUND COVERAGE OVER FINISHED GRADE/CRAWL SPACE, EITHER BAIT STATIONS OR CHEMICAL TREATMENT FOR PROTECTION
FROM TERMITE INVESTATION ACCORDING TO THE STANDARDS OF THE NC DEPT. OF AGRICULTURE.

APPLY AN APPROVED VAPOR RETARDER OR EQUIVALENT, 6 MIL POLY-VINYL, GROUND COVER OVER FINISH GRADE OR CRAWL SPACE PER NCRC SECTION 408.2

-PROVIDE VENTS SPACED AROUND PERIMETER TO PROMOTE CROSS VENTILATION AT A RATE OF 1 SF VENT FOR EVERY 1500 SF OF CRAWL FLOOR AREA. ONE VENT MUST BE LOCATED WITHIN 3-0" OF EACH CORNER OF THE BUILDING AND LOCATED TO ALLOW FOR CROSS VENTILATION. (PER NCRC SECTION R408.1.1 EXCEPTION.)

-PROVIDE AN ACCESS OPENING, MINIMUM SIZE OF 18"X24" FOR CRAWL ACCESS. COORDINATE WITH MECHANICAL CONTRACTOR FOR LARGER SIZE REQUIREMENTS IF MECHANICAL EQUIPMENT IS LOCATED IN CRAWL. (PER NCRC SECTION 408.8)

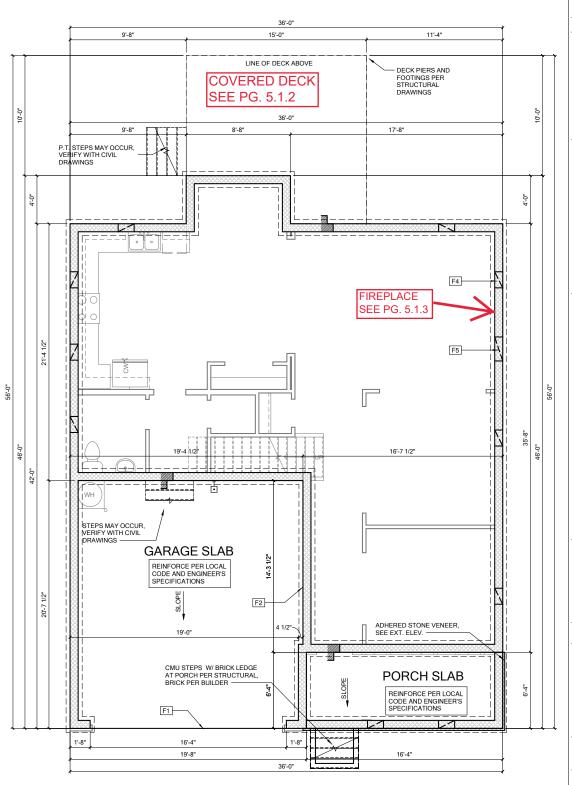
-WOOD CONTACTING CONCRETE OR MASONRY OR LESS THAN CODE REQUIRED SEPARATION TO GRADE SHALL BE PRESSURE TREATED OR FOUNDATION GRADE REDWOOD. SET ALL EXTERIOR WALL SILLS IN MASTIC.

CRAWL SPACE VENTICAL C. 'FURO'

OT WILL OF YOU VENT ONLY. LONG					
Name	Area	1/150 VENT REQ.	1/1500 VENT REQ.		
AREA 1	1042 SF	6.95 SF	0.69 SF		

REFER TO STRUCTURAL DRAWINGS FOR ALL FOUNDATION DIMENSIONS

	FOUNDATION KEYNOTE LEGEND				
=1	LINE OF SLAB ABOVE				
-2	LINE OF FRAMED WALL ABOVE				
-4	16" X 8" CRAWL SPACE VENT				
-5	CRAWL SPACE ACCESS PANEL				



CRAWL SPACE PLAN 'EURO'



PROJECT TITLE:

THE NELSON 2020 - 'EURO' LH

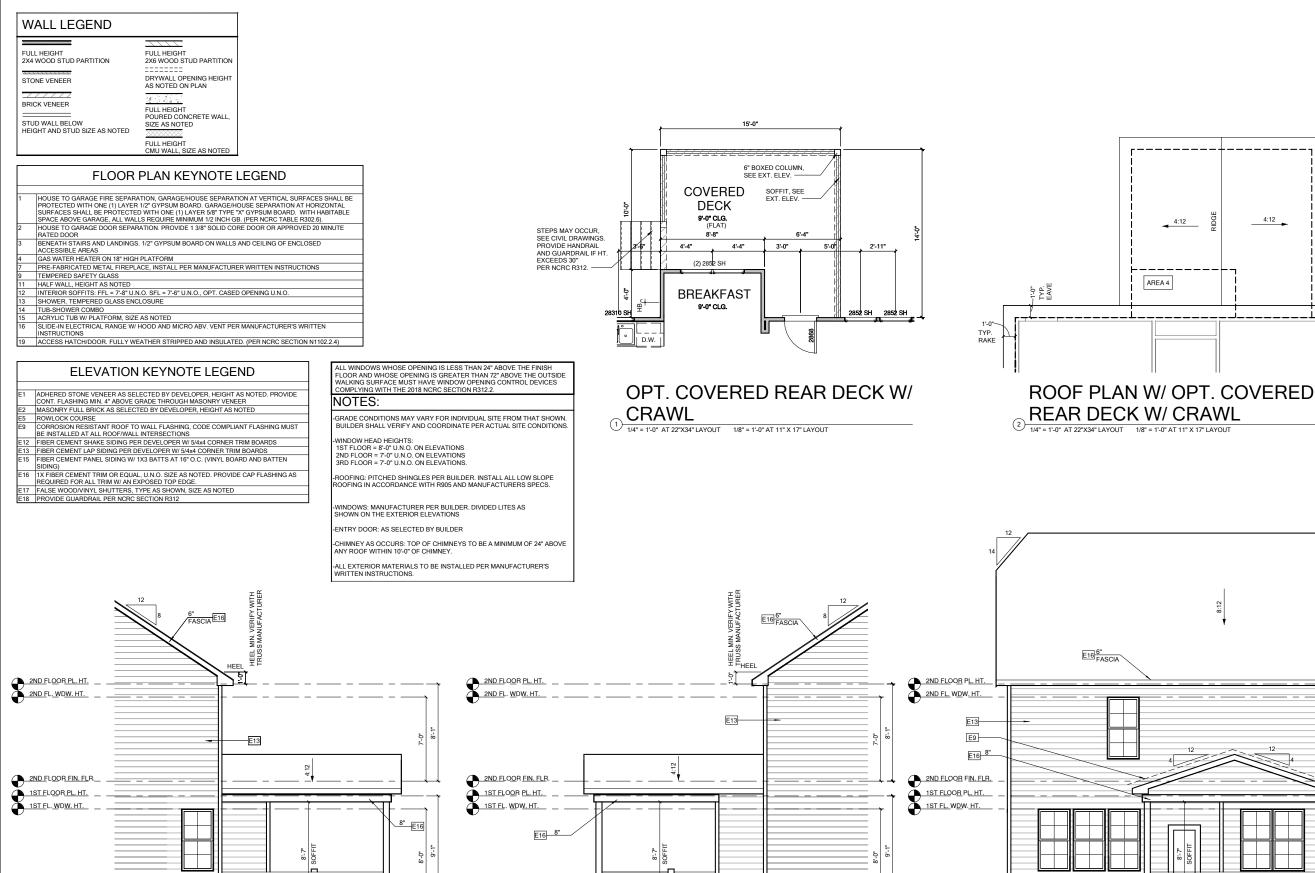
LOT 1126 -ANDERSON CREEK ACADEMY

PROJECT NO: SHEET TITLE:

CRAWL SPACE PLAN 'EURO'

PRINT DATE: 05.12.2020 SHEET NO:

4.1.1



LEFT ELEVATION W/ OPT.

COVERED REAR DECK (CRAWL)

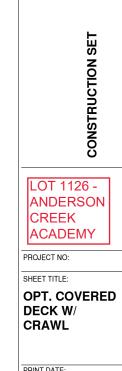
1ST FLOOR FIN. FLR.

1ST FLOOR FIN. FLR.

RIGHT ELEVATION W/ OPT.

4 1/4" = 1'-0" AT 22"X34" LAYOUT 1/8" = 1'-0" AT 11" X 17" LAYOUT

COVERED REAR DECK (CRAWL)



PROJECT TITLE:

LH

THE NELSON

2020 - 'EURO'

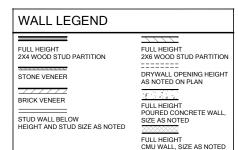
REAR ELEVATION W/ OPT. COVERED REAR DECK (CRAWL)

1ST FLOOR FIN. FLR.

PRINT DATE: 05.12.2020

SHEET NO:

5.1.2



FLOOR PLAN KEYNOTE LEGEND

HOUSE TO GARAGE FIRE SEPARATION, GARAGE/HOUSE SEPARATION AT VERTICAL SURFACES SHALL BE PROTECTED WITH ONE (1) LAYER 1/2" GYPSUM BOARD. GARAGE/HOUSE SEPARATION AT HORIZONTAL SURFACES SHALL BE PROTECTED WITH ONE (1) LAYER 5/8" "TYPE" X" GYPSUM BOARD. WITH HABITABLE SPACE ABOVE GARAGE, ALL WALLS REQUIRE MINIMUM 1/2 INCH GB, (PER NORC TABLE R302.6). HOUSE TO GARAGE DOOR SEPARATION. PROVIDE 1 3/8" SOLID CORE DOOR OR APPROVED 20 MINUTE

RATED DOOR
BENEATH STAIRS AND LANDINGS. 1/2" GYPSUM BOARD ON WALLS AND CEILING OF ENCLOSED ACCESSIBLE AREAS
GAS WATER HEATER ON 18" HIGH PLATFORM
PRE-FABRICATED METAL FIREPLACE, INSTALL PER MANUFACTURER WRITTEN INSTRUCTIONS

TEMPERED SAFETY GLASS

HALF WALL, HEIGHT AS NOTED

INTERIOR SOFFITS: FFL = 7'-8" U.N.O. SFL = 7'-6" U.N.O., OPT. CASED OPENING U.N.O.

SHOWER, TEMPERED GLASS ENCLOSURE TUB-SHOWER COMBO

ACRYLIC TUB W/ PLATFORM, SIZE AS NOTED
SLIDE-IN ELECTRICAL RANGE W/ HOOD AND MICRO ABV. VENT PER MANUFACTURER'S WRITTEN

ACCESS HATCH/DOOR, FULLY WEATHER STRIPPED AND INSULATED, (PER NCRC SECTION N1102.2.4)

ELEVATION KEYNOTE LEGEND

MASONRY FULL BRICK AS SELECTED BY DEVELOPER, HEIGHT AS NOTED

CORROSION RESISTANT ROOF TO WALL FLASHING, CODE COMPLIANT FLASHING MUS BE INSTALLED AT ALL ROOF/WALL INTERSECTIONS

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 PANEL SIDING W/ 1X3 BATTS AT 16" O.C. (VINYL BOARD AND BATTEN

SIDING

STATE OF THE STATE OF T

E18 PROVIDE GUARDRAIL PER NCRC SECTION R312

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 CONTROL DEVICES COMPLYING WITH THE 2018 NCRC SECTION R312.2

NOTES:

-GRADE CONDITIONS MAY VARY FOR INDIVIDUAL SITE FROM THAT SHOWN BUILDER SHALL VERIFY AND COORDINATE PER ACTUAL SITE CONDITIONS

-WINDOW HEAD HEIGHTS: 1ST 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.

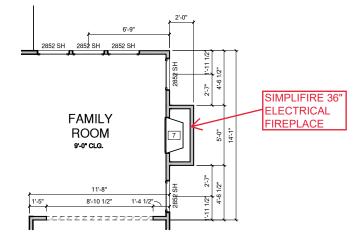
-ROOFING: PITCHED SHINGLES PER BUILDER. INSTALL ALL LOW SLOPE ROOFING IN ACCORDANCE WITH R905 AND MANUFACTURERS SPECS.

VINDOWS: MANUFACTURER PER BUILDER. DIVIDED LITES AS SHOWN ON THE EXTERIOR ELEVATIONS

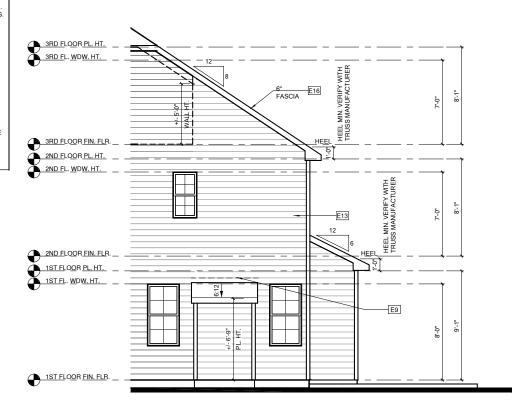
ENTRY DOOR: AS SELECTED BY BUILDER

CHIMNEY AS OCCURS: TOP OF CHIMNEYS TO BE A MINIMUM OF 24" ABOVE ANY ROOF WITHIN 10'-0" OF CHIMNEY.

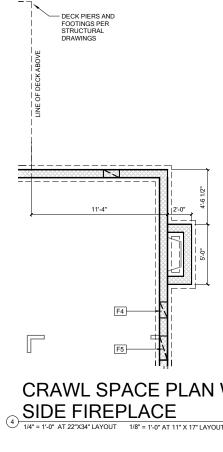
-ALL EXTERIOR MATERIALS TO BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.



OPT. SIDE FIREPLACE



RIGHT ELEVATION W/ OPT. SIDE



CRAWL SPACE PLAN W/ OPT.

RIDGE VENT E16 FASCIA 2ND FLOOR PL. HT. 2ND FL. WDW. HT. E13 2ND FLOOR FIN. FLR. 1ST FLOOR PL. HT. 1ST FL. WDW. HT. _ ROOF PLAN W/ OPT. SIDE **FIREPLACE** 1ST FLOOR FIN. FLR. REAR ELEVATION W/ OPT. SIDE FIREPLACE



PROJECT TITLE: THE NELSON 2020 - 'EURO' LH

CONSTRUCTION SE

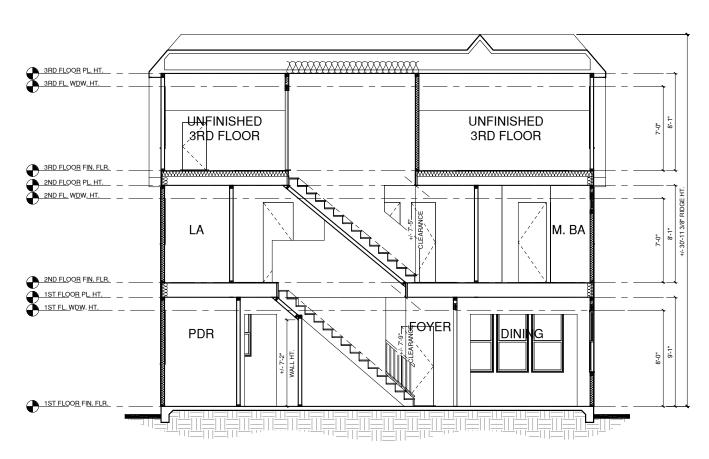
LOT 1126 -ANDERSON CREEK ACADEMY

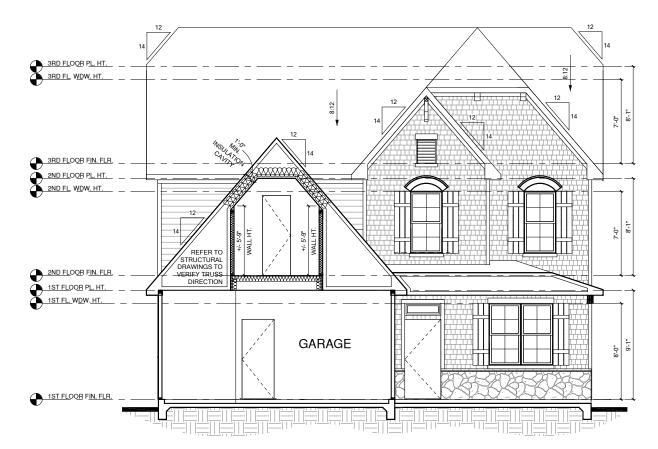
PROJECT NO: SHEET TITLE:

OPT. SIDE FIREPLACE

PRINT DATE: 05.12.2020

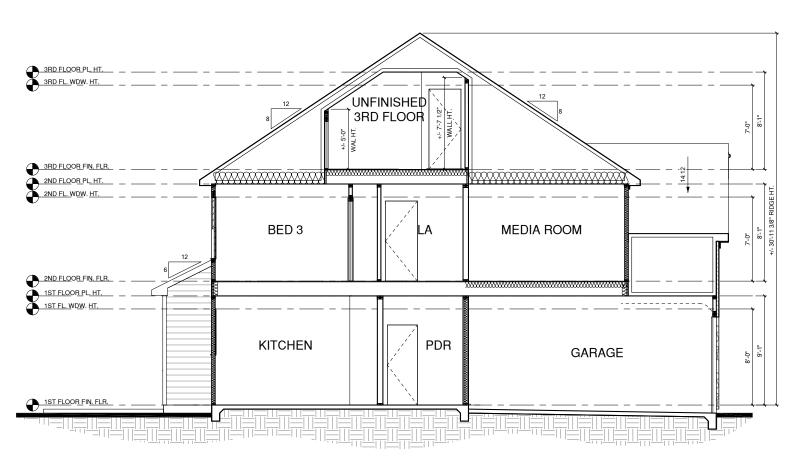
SHEET NO: 5.1.3





② BUILDING SECTION 3 'EURO'

1/4" = 1'-0" AT 22"X34" LAYOUT 1/8" = 1'-0" AT 11" X 17" LAYOUT



BUILDING SECTION 2 'EURO'

1/4"= 1'-0" AT 22'X34" LAYOUT 1/8"= 1'-0" AT 11" X 17" LAYOUT

PROJECT TITLE:

THE NELSON 2020 - 'EURO' LH

NO: DATE: REVISION:

CONSTRUCTION SET

LOT 1126 -ANDERSON CREEK ACADEMY

PROJECT NO:

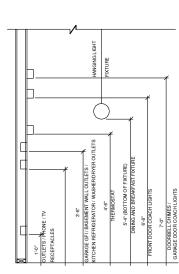
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SECTIONS

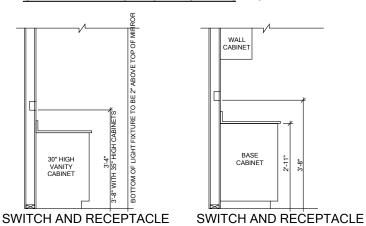
PRINT DATE: 05.12.2020

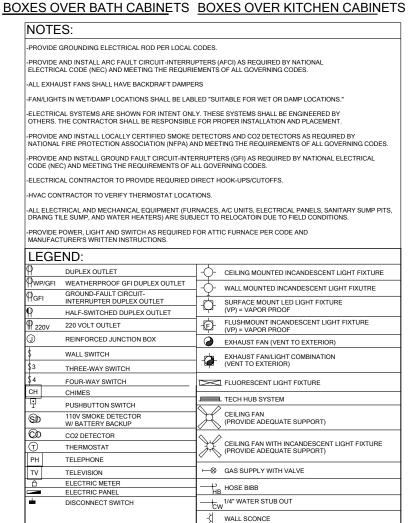
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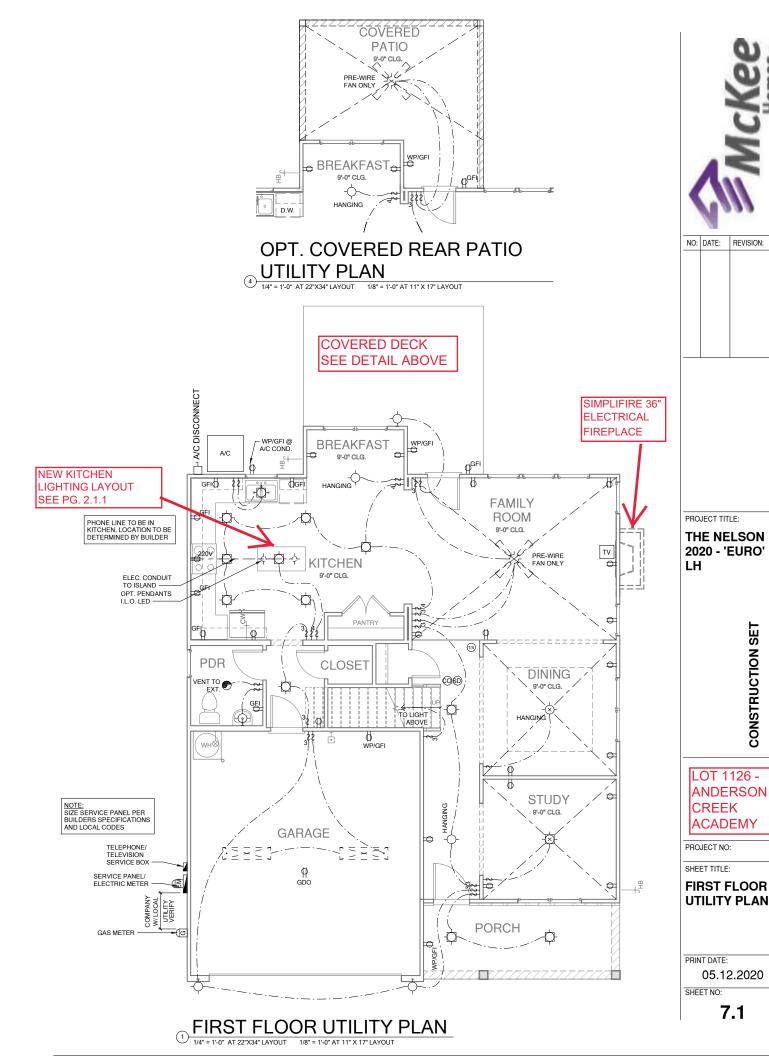
6.1

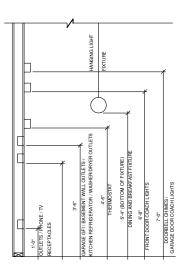


STANDARD ELECTRICAL BOX HEIGHTS

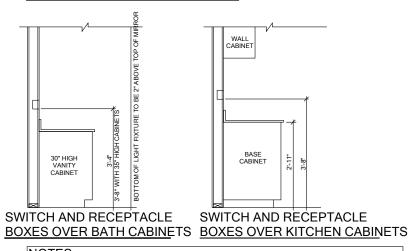


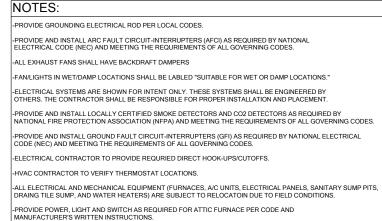


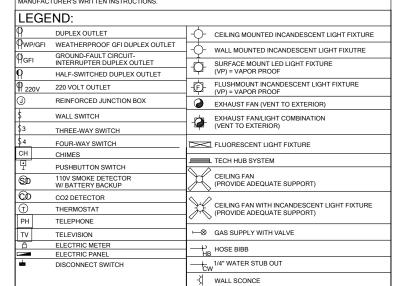


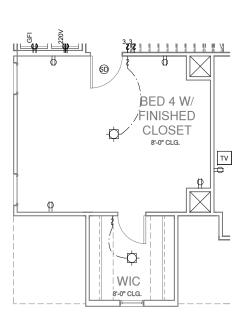


STANDARD ELECTRICAL BOX HEIGHTS

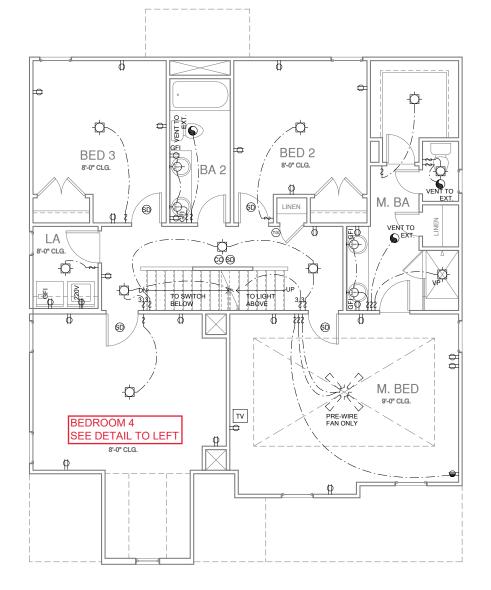






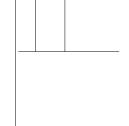


OPT. BED 4 W/ FINISHED CLOSET 2 UTILITY PLAN 1/4" = 1'-0" AT 22"X34" LAYOUT 1/8" = 1'-0" AT 11" X 17" LAYOUT



(1) SECOND FLOOR UTILITY PLAN

1/4" = 1'-0" AT 22"X34" LAYOUT 1/8" = 1'-0" AT 11" X 17" LAYOUT



PROJECT TITLE:

THE NELSON 2020 - 'EURO' LH

CONSTRUCTION SET

LOT 1126 -ANDERSON CREEK ACADEMY

PROJECT NO:

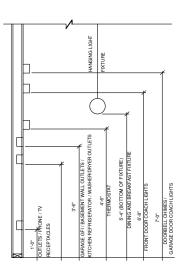
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SECOND **FLOOR UTILITY PLAN**

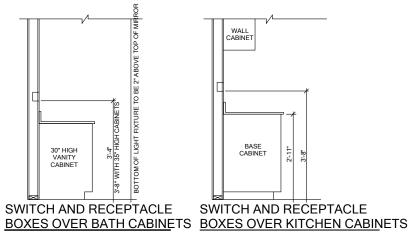
> PRINT DATE: 05.12.2020

SHEET NO:

7.2



STANDARD ELECTRICAL BOX HEIGHTS





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 REQURIEMENTS 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.

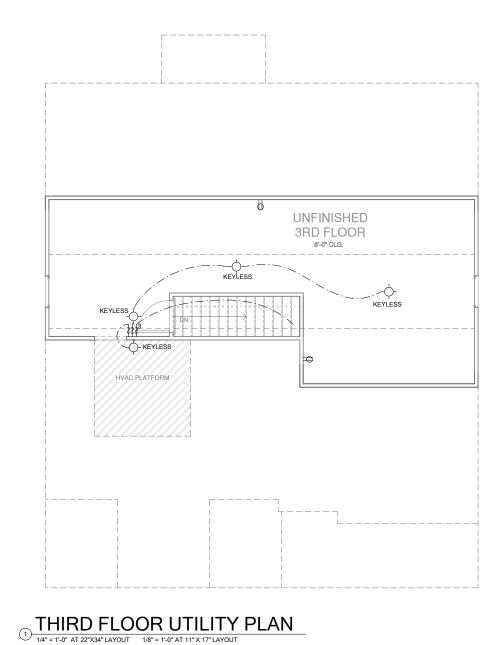
-ELECTRICAL CONTRACTOR TO PROVIDE REQURIED DIRECT HOOK-UPS/CUTOFFS.

-HVAC CONTRACTOR TO VERIFY THERMOSTAT LOCATIONS.

-ALL ELECTRICAL AND MECHANICAL EQUIPMENT (FURNACES, A/C UNITS, ELECTRICAL PANELS, SANITARY SUMP PITS, DRAING TILE SUMP, AND WATER HEATERS) ARE SUBJECT TO RELOCATOIN DUE TO FIELD CONDITIONS.

-PROVIDE POWER, LIGHT AND SWITCH AS REQUIRED FOR ATTIC FURNACE PER CODE AND

MANUFAC	TURER'S WRITTEN INSTRUCTIONS.		
LEGE	:ND:		
P	DUPLEX OUTLET	<u> </u>	CEILING MOUNTED INCANDESCENT LIGHT FIXTURE
∯wp/gfi	WEATHERPROOF GFI DUPLEX OUTLET	1	WALL MOUNTED INCANDESCENT LIGHT FIXUTRE
∯ _{GFI}	GROUND-FAULT CIRCUIT- INTERRUPTER DUPLEX OUTLET	 	SURFACE MOUNT LED LIGHT FIXTURE
Ρ	HALF-SWITCHED DUPLEX OUTLET	4	(VP) = VAPOR PROOF
₩ ₂₂₀ ∨	220 VOLT OUTLET	-(p-	FLUSHMOUNT INCANDESCENT LIGHT FIXTURE (VP) = VAPOR PROOF
(J)	REINFORCED JUNCTION BOX	(EXHAUST FAN (VENT TO EXTERIOR)
\$	WALL SWITCH	—	EXHAUST FAN/LIGHT COMBINATION
\$3	THREE-WAY SWITCH		(VENT TO EXTERIOR)
\$4	FOUR-WAY SWITCH		1 FLUORESCENT LIGHT FIXTURE
СН	CHIMES	<u> </u>	L TECH HUB SYSTEM
P	PUSHBUTTON SWITCH		L TECH HUB SYSTEM
SD	110V SMOKE DETECTOR W/ BATTERY BACKUP		CEILING FAN (PROVIDE ADEQUATE SUPPORT)
©	CO2 DETECTOR		>
T	THERMOSTAT] 糕	CEILING FAN WITH INCANDESCENT LIGHT FIXTURE (PROVIDE ADEQUATE SUPPORT)
PH	TELEPHONE	<u> </u>	> (************************************
TV	TELEVISION	⊗	GAS SUPPLY WITH VALVE
	ELECTRIC METER	THE HE	HOSE BIBB
	ELECTRIC PANEL	HE.	
	DISCONNECT SWITCH	cv	1/4" WATER STUB OUT V
		⊀	WALL SCONCE



McKee

NO: DATE: REVISION:

PROJECT TITLE:

THE NELSON 2020 - 'EURO' LH

CONSTRUCTION SET

LOT 1126 -ANDERSON CREEK ACADEMY

PROJECT NO:

SHEET TITLE:

THIRD FLOOR UTILITY PLAN

PRINT DATE: 05.12.2020

SHEET NO:

7.3

Applicable Building Codes:

• 2018 North Carolina Residential Building Code with All Local Amendments ASCE 7-10: Minimum Design Loads for Buildings and Other Structures

Design Loads:

911 -	oado.		
~ l.	Roof L	_ive Loads	
	1.1.	Conventional 2x	20 PSF
	1.2.	Truss	20 PSF
		1.2.1. Attic Truss	60 PSF
2.	Roof [Dead Loads	
	2.1.	Conventional 2x	10 PSF
	2.2.	Truss	20 PSF
3.	Snow		15 PSF
	3.1.	Importance Factor	1.0
4.	Floor L	_ive Loads	
	4.1.	Typ. Dwelling	40 PSF
		Sleeping Areas	
		Decks	
	4.4.	Passenger Garage	50 PSF
5.		Dead Loads	
	5.1.	Conventional 2x	10 PSF
	5.2.	-Joist	15 PSF
		Floor Truss	
6.	Ultimate	e Design Wind Speed (3 sec. gust)	130 MPH
		Exposure	
		Importance Factor	
		Wind Base Shear	

1.	Component and Cladding (in PSF)						
	MEAN ROOF HT.	UP TO 30'	3Ø'1"-35'	35' "-4Ø'	40'1"-45'		
	ZONE 1	16.7,-18.0	17.5,-18.9	18.2,-19.6	18.7,-20.2		
	ZONE 2	16.7,-21.0	17.5,-22.1	18.2,-22.9	18.7,-23.5		
	ZONE 3	16.7,-21.0	17.5,=22.1	18.2,-22.9	18.7,-23.5		
	ZONE 4	18.2,-19.0	19.2,-20.0	19.9,-20.7	20.4,-21.3		
	ZONE 5	18.2,-24.0	19.2,-25.2	19.9,-26.1	20.4,-26.9		

8. Seismic

	~	
8.1.	Site Class	D
8.2.	Design Category	C
8.3.	Importance Factor	1.0
8.4.	Seismic Use Group	1
	Spectral Response Acceleration	
	851 Sms = %a	

8.5.2. Sml = %a 8.6. Seismic Base Shear 8.6.1. Vx =

6.3.1. Vx = 6.3.2.Vy =

8.6.2.Vy = 8.7. Basic Structural System (check one) Bearing Wall

□ Building Frame

□ Moment Frame □ Dual w/ Special Moment Frame □ Dual w/ Intermediate R/C or Special Steel □ Inverted Pendulum

8.8. Arch/Mech Components Anchored 8.9. Lateral Design Control: Seismic □ Wind ⊠



STRUCTURAL PLANS PREPARED FOR:

NELSON 2020

PROJECT ADDRESS:

McKee Homes 109 Hay St., Suite 301 Fayetteville, NC 28301

DESIGNER:

Planworx Architecture, P.A. 5711 Six Forks Rd. #100 Raleigh, NC 27609

These drawings are to be coordinated with the architectural, mechanical, plumbing, electrical, and civil drawings. This coordination is not the responsibility of the structural engineering of record (SER). Should any discrepancies become apparent, the contractor shall notify SUMMIT Engineering, Laboratory & Testing, P.C. before construction begins.

PLAN ABBREVIATIONS:

AB	ANCHOR BOLT	PT	PRESSURE TREATED
AFF	ABOVE FINISHED FLOOR	RS	ROOF SUPPORT
CJ	CEILING JOIST	SC	STUD COLUMN
CLR	CLEAR	SJ	SINGLE JOIST
DJ	DOUBLE JOIST	SPF	SPRUCE PINE FIR
DSP	DOUBLE STUD POCKET	SST	SIMPSON STRONG-TIE
EE	EACH END	SYP	SOUTHERN YELLOW PINE
ΕW	EACH WAY	TJ	TRIPLE JOIST
NTS	NOT TO SCALE	TSP	TRIPLE STUD POCKET
OC.	ON CENTER	TYP	TYPICAL
PSF	POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
PSI	POUNDS PER SQUARE INCH	WWF	WELDED WIRE FABRIC

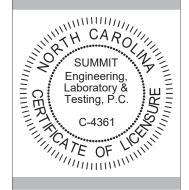
Roof truss and floor joist layouts, and their corresponding loading details, were not provided to SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) prior to the initial design. Therefore, truss and joist directions were assumed based on the information provided by MCKEE HOMES. Subsequent plan revisions based on roof truss and floor joist layouts shall be noted in the revision list, indicating the date the layouts were provided. Should any discrepancies become apparent, the contractor shall notify SUMMIT immediately.

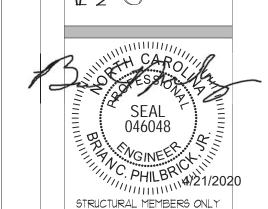
SHEET LIST: Description Sheet No. CS1 Cover Sheet, Specifications, Revisions S1,0m Monolithic Slab Foundation S1.0s Stem Wall Foundation S1.0c Crawl Space Foundation S1.0b Basement Foundation S2.Ø Basement Framing Plan S3.Ø First Floor Framing Plan S4.Ø Second Floor Framing Plan S5.Ø Roof Framing Plan S6.0 Basement Bracing Plan S7.Ø First Floor Bracing Plan 58.Ø Second Floor Bracing Plan

REVISION LIST:

Revision No.	Date	Project No.	Description

SUMMI' 3070 HAMMOND BUSINESS PLACE, SUITE 171 RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM





recommended in accordance with the APA.

state Building Code.

<u>RUCTURAL FIBERBOARD PANELS:</u>

Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards. All structurally required fiberboard sheathing shall bear the

mark of the AFA. Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information.

Wood wall sheathing shall comply with the requirements of local

information. Sheathing shall be applied with the long direction

Roof sheathing shall be APA rated sheathing exposure 1 or 2.

attached to its supporting roof framing with (1)-8d CC nail at

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. Use

suitable edge support by use of plywood clips or lumber

over framing. Apply building paper over the sheathing as

required by the state Building Code.

blocking unless otherwise noted. Panel end joints shall occur

Wood floor sheathing shall be APA rated sheathing exposure 1

field unless otherwise noted on the plans. Sheathing shall be

rating consistent with the framing spacing. Use suitable edge

support by use of T&G plywood or lumber blocking unless

otherwise noted. Panel end joints shall occur over framing.

Apply building paper over the sheathing as required by the

Sheathing shall have a 1/8" gap at panel ends and edges as

Roof sheathing shall be continuous over two supports and

6"o/c at panel edges and at 12"o/c in panel field unless

drawings. Refer to wall bracing notes in plan set for more

perpendicular to framing, unless noted otherwise.

building codes for the appropriate state as indicated on these

Sheathing shall have a 1/8" gap at panel ends and edges are recommended in accordance with the AFA.

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 elements and the performance of this structure. No other party may revise, alter, or delete any structural aspects of these construction documents without written permission of SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT 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.
- 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 SUMMIT 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 SUMMIT.
- 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 SUMMIT before construction begins.
- 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 international residential code.

of the current local building code.

8. This structure and all construction shall conform to all applicable sections of local building codes. 9. All structural assemblies are to meet or exceed to requirements

FOUNDATIONS:

The structural engineer has not performed a subsurface investigation. Verification of this 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.

2. The bottom of all footings shall extend below the frost line for the region in which the structure is to be constructed. However, the bottom of all footings shall be a minimum of 12" below grade.

3. Any fill shall be placed under the direction or recommendation

- of a licensed professional engineer. 4. The resulting soil shall be compacted to a minimum of 95%
- maximum dry density. 5. 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.
- 6. No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.

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 the manual of Steel Construction "Load Resistance Factor Design" latest editions.
- Structural steel shall receive one coat of shop applied rust-inhibitive paint.
- All steel shall have a minimum yield stress (F,,) of 36 ksi unless otherwise noted. Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS D.I. Electrodes

for shop and field welding shall be class ETOXX. All welding

shall be performed by a certified welder per the above

standards.

- Concrete shall have a normal weight aggregate and a minimum compressive strength (f'c) at 28 days of 3000 psi, 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".
- 3. 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 target values as follows:
 - 3.1. Footings: 5% 3.2. Exterior Slabs: 5%
- 4. No admixtures shall be added to any structural concrete without written permission of the SER.

- Concrete slabs-on-grade shall be constructed in accordance with ACI 302.IR-96: "Guide for Concrete Slab and Slab
- The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported
- conditions not in accordance with the above assumptions. Control or saw cut joints 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. Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished
- 9. Reinforcing steel may not extend through a control joint. Reinforcing steel may extend through a saw cut joint. 10. 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.

CONCRETE REINFORCEMENT:

- Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased abrasion resistance, and residual strength.
- Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.
- Application of fibermesh per cubic yard of concrete shall equal a minimum of 0.1% by volume (1.5 pounds per cubic yard) Fibermesh shall comply with ASTM CIII6, any local building code

requirements, and shall meet or exceed the current industry

- 5. Steel reinforcing bars shall be new billet steel conforming to
- ASTM A615, grade 60. 6. 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"

Horizontal footing and wall reinforcement shall be continuous

size/spacing as the horizontal reinforcement with a class B tension splice. 8. Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.

and shall have 90° bends, or corner bars with the same

- 9. 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.
- 10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.

- 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 be
- Southern-Yellow-Pine (SYP) #2. LVL or PSL engineered wood shall have the following minimum
 - 2.1. E = 1,900,000 psi $2.2. \, \text{Fb} = 2600 \, \text{psi}$ 2.3. FV = 285 psi
- 2.4.Fc = 700 psi Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15. All other moisture exposed wood shall be treated in accordance
- with AWPA standard C-2 Nails shall be common wire nails unless otherwise noted. 5. Lag screws shall conform to ANSI/ASME standard B18.2.1-1981. Lead holes for lag screws shall be in accordance with NDS
- specifications. . All beams shall have full bearing on supporting framing members unless otherwise noted.
- Exterior and load bearing stud walls are to be 2x4 SYP #2 @ 16" O.C. unless otherwise noted. Studs shall be continuous from the sole plate to the double top plate. Studs shall only be discontinuous at headers for window/door openings. A minimum of one king stud shall be placed at each end of the header.
- King studs shall be continuous. Individual studs forming a column shall be attached with one 10d nail @ 6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be properly blocked at all floor levels to ensure proper load transfer.
- 10. Four and five ply beams shall be bolted together with (2) rows of 1/2" diameter through bolts staggered a 16" O.C. unless noted otherwise.

. Multi-ply beams shall have each ply attached with (3) 10d nails a

- 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 five (5) days for review. The review by the SER shall review for overall compliance with the design documents. The SER shall assume no responsibility for the correctness for 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 7-10), 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 "National Design Specification for Wood Construction." (NDS) and "Design" Specification for Metal Plate Connected Wood Trusses."
- The truss manufacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-91). This bracing, both temporary and permanent, shall be shown on the shop drawings. Also, the shop drawings shall show the required attachments for
- 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.

EXTERIOR WOOD FRAMED DECKS: Decks are to be framed in accordance with local building codes and as referenced on the structural plans, either through

<u>WOOD STRUCTURAL PANELS:</u> 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

code references or construction details.

All structurally required wood sheathing shall bear the mark of the APA.

or 2. Attach sheathing to its supporting framing with (1)-8d CC ringshank nail at 6"o/c at panel edges and at 12"o/c in panel applied perpendicular to framing. Sheathing shall have a span

DATE: 04/20/2020

SCALE: 22x34 |/4"=1'-0" ||x|T |/8"=1'-0" PROJECT *: 4240.500: 21196 DRAWN BY: EMB CHECKED BY: LAG

ORIGINAL INFORMATION

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS



FOUNDATION NOTES:

- 1. FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
- 2. STRUCTURAL CONCRETE TO BE F_c = 3000 PSI, PREPARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318.
- 3. FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE ENFORCEMENT OFFICIAL.
- 4. FOOTING SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 2000 PSF. CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION.
- 5. FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE ELEMENTS. PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF MASONRY.
- 6. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN SECTION R404.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- . PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- 8. PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.
- 9. PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- 10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK
- II. CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS.
- 12. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.16. MINIMUM 1/2" DIA. BOLTS SPACED AT 6'-0" ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE SECTION. MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- 13. ABBREVIATIONS:

DJ = DOUBLE JOIST
GT = GIRDER TRUSS
SC = STUD COLUMN
EE = EACH END
TJ = TRIPLE JOIST
CL = CENTER LINE

SJ = SINGLE JOIST
FT = FLOOR TRUSS
FT = FLOOR TRUSS
TR = TRIPLE RAFTER
OC = ON CENTER
PL = POINT LOAD

- 14. ALL PIERS TO BE 16"x16" MASONRY AND ALL PILASTERS TO BE 8"x16" MASONRY, TYPICAL. (UNO)
- 15. WALL FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN.

 16. A FOUNDATION EXCAVATION OBSERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER, OR HIS QUALIFIED REPRESENTATIVE. IF ISOLATED AREAS OF YIELDING MATERIALS AND/OR POTENTIALLY EXPANSIVE SOILS ARE OBSERVED IN THE FOOTING EXCAVATIONS AT THE TIME OF CONSTRUCTION, SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. MUST BE PROVIDED THE OPPORTUNITY TO
- REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.

 17. ALL FOOTINGS & SLABS ARE TO BEAR ON UNDISTURBED SOIL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL.

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLD-DOWNS. ADDITIONAL INFORMATION PER SECTION R602.10.4 AND FIGURE R602.10.3(4) OF THE 2018 NCRC.

NOTE: ALL EXTERIOR FOUNDATION DIMENSIONS ARE TO FRAMING AND NOT BRICK VENEER, UNO

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I PER TABLE R405.I

REINFORCE GARAGE PORTAL WALLS PER FIGURE R602.10.4.3 OF THE 2018 NCRC. (TYP)

BEAM POCKETS MAY BE SUBSTITUTED FOR MASONRY PILASTERS AT GIRDER ENDS. BEAM POCKETS SHALL HAVE A MINIMUM 4" SOLID MASONRY BEARING.

NOTE: REDUCE JOIST SPACING UNDER TILE FLOORS, GRANITE COUNTERTOPS AND/OR ISLANDS.

DECK JOISTS SHALL BE SPACED AT A MAX. 12" O.C. WHEN DECK BOARDS ARE INSTALLED DIAGONALLY.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY MCKEE HOMES COMPLETED/REVISED ON @4/@1/2@2@. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

STRUCTURAL MEMBERS ONLY

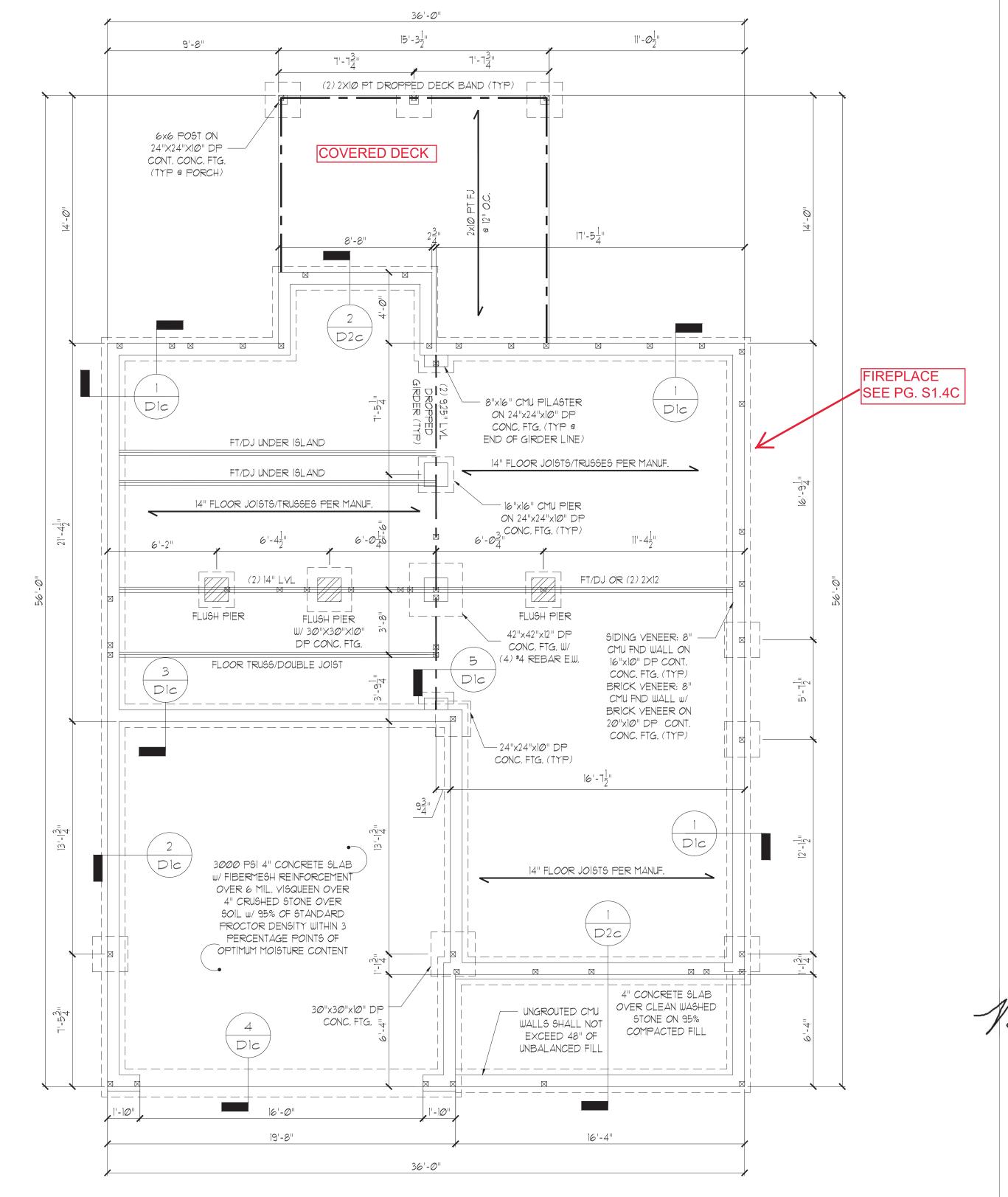
ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT, SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY.

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

CRAWL SPACE FOUNDATION PLAN

SCALE: 1/4"=1'-0" ON 22"x34" OR 1/8"=1'-0" ON 11"x17"

18"x24" MIN. CRAWL SPACE ACCESS DOOR TO BE LOCATED IN FIELD PER BUILDER. PROVIDE MIN. (2) 2x10 HEADER OVER DOOR w/ MIN. 4" BEARING EACH END. AVOID SHOWN POINT LOADS.



EURO

SUMMITENGINEERING LABORATORY TESTING 3070 HAMMOND BUSINESS PLACE, SUITE 171
RALEIGH, NC 27603
OFFICE: 919.380.9991
FAX: 919.380.9993

SUMMIT Engineering, Laboratory & Testing, P.C.

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WWW.SUMMIT-COMPANIES.COM

CLIENI: McKee Homes 109 Hay St., Suite 301 Fauetteville NC 28301

PROJECT:

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RAWING

DATE: 04/20/2020

SCALE: 22x34 |/4"=1'-0"
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PROJECT *: 4240500: 27196

DRAWN BY: EMB

ORIGINAL INFORMATION
PROJECT DATE
21196 04/20/2020

CHECKED BY: LAG

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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CLIENT: McKee Homes 109 Hay St., Suite 301 Fauetteville, NC 28301

PROJECT:
Nelson 2020 - LH

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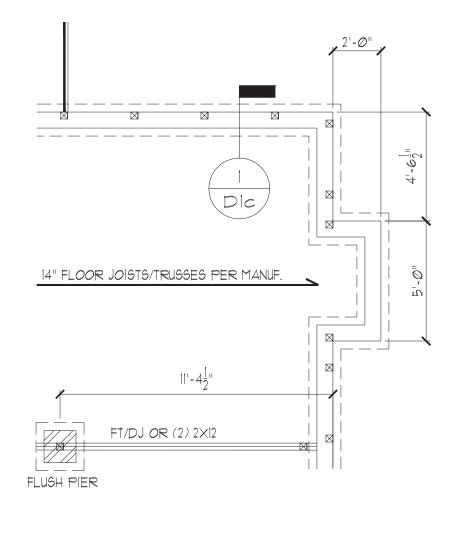
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RIGINAL INFORMATION

ORIGINAL INFORMATION
PROJECT DATE
27196 04/20/2020

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S1.4c



OPT. FIREPLACE

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

CRAWL SPACE FOUNDATION PLAN

SCALE: 1/4"=1'-0" ON 22"x34" OR 1/8"=1'-0" ON 11"x17"

GENERAL STRUCTURAL NOTES:

- 1. CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
- 2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS. CONTRACTOR SHALL COMPLY WITH THE CONTENTS OF THE DRAWING FOR THIS SPECIFIC PROJECT. ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAN.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION.
- PROPERTIES USED IN THE DESIGN ARE AS FOLLOWS: MICROLLAM (LVL): $F_b = 2600 \text{ PSI}$, $F_V = 285 \text{ PSI}$, $E = 1.9 \times 10^6 \text{ PSI}$ PARALLAM (PSL): $F_b = 2900 \text{ PSI}, F_V = 290 \text{ PSI}, E = 1.25 \times 10^6 \text{ PSI}$
- ALL WOOD MEMBERS SHALL BE #2 SYP UNLESS NOTED ON PLAN. ALL STUD COLUMNS AND JOISTS SHALL BE #2 SYP (UNO).
- 6. ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 #2 SYP STUD COLUMN AT EACH END UNLESS NOTED OTHERWISE.
- 1. ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMUM COVER OF 3".
- 8. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.1.6. MINIMUM 1/2" DIA. BOLTS SPACED AT 6'-O" ON CENTER WITH A 7" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE SECTION. MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- 9. CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN PERPENDICULAR TO RAFTERS.
- 10. FLITCH BEAMS, 4-PLY LVLS AND 3-PLY SIDE LOADED LVLS SHALL BE BOLTED TOGETHER WITH 1/2" DIA. THRU BOLTS SPACED AT 24" O.C. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/D3f. MIN. EDGE DISTANCE SHALL BE 2" AND (2) BOLTS SHALL BE LOCATED MINIMUM 6" FROM EACH END OF THE BEAM.
- ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 SYP #2, DROPPED. FOR NON-LOAD BEARING HEADERS EXCEEDING 8'-0" IN WIDTH AND/OR WITH MORE THAN 2'-O" OF CRIPPLE WALL ABOVE, SHALL
- BE (2) FLAT 2x4 SYP #2, DROPPED. (UNLESS NOTED OTHERWISE) 12. ABBREVIATIONS:

DJ = DOUBLE JOIST SJ = SINGLE JOIST GT = GIRDER TRUSS FT = FLOOR TRUSS SC = STUD COLUMN DR = DOUBLE RAFTER TR = TRIPLE RAFTER EE = EACH END TJ = TRIPLE JOIST OC = ON CENTER PL = POINT LOAD CL = CENTER LINE

SHADED WALLS INDICATED LOAD BEARING WALLS

NOTE: REDUCE JOIST SPACING UNDER TILE FLOORS, GRANITE COUNTERTOPS AND/OR ISLANDS.

JOIST & BEAM SIZES SHOWN ARE MINIMUMS, BUILDER MAY INCREASE DEPTH FOR EASE OF CONSTRUCTION.

NOTE:

DESIGNATES JOIST SUPPORTED LOAD BEARING WALL ABOVE. PROVIDE BLOCKING UNDER JOIST SUPPORTED LOAD BEARING WALL.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY MCKEE HOMES COMPLETED/REVISED ON <u>04/01/2020</u>. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

STRUCTURAL MEMBERS ONLY

ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT, SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY.

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN

SCALE: 1/4"=1'-0" ON 22"x34" OR 1/8"=1'-0" ON 11"x17"

HEADER SCHEDULE TAG SIZE JACKS (EACH END) (2) 2x6 (2)2x8 (2) 2×1Ø (2) $(2) 2 \times 12$ (2) 9-1/4" LSL/LVL (3)2x6 G (3)2x8 (2) (3)2xlØ Н $(3) 2 \times 12$ (3)

NOTES: 1. HEADER SIZES SHOWN ON PLANS ARE MINIMUMS. GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION. 2. ALL HEADERS TO BE DROPPED (U.N.O.). 3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD COLUMNS LISTED ABOVE (U.N.O.). 4. OPENINGS LESS THAN 3'-O" USE (1) KING STUD AT E.E. OPENINGS 3'-1" TO 4'-0" USE (2) KING STUDS AT E.E. OPENINGS 4'-1" TO 8'-0" USE (3) KING STUDS AT E.E. OPENINGS 8'-1" TO 12'-0" USE (5) KING STUDS AT E.E. OPENINGS 12'-1" TO 16'-0" USE (6) KING STUDS AT E.E.

ALL HEADERS WHERE BRICK IS USED, TO BE:

LINTEL (U.N.O.)

LINTEL SCHEDULE:

STEEL ANGLES TO HAVE MINIMUM 4" BEARING ONTO BRICK AT EACH END.

1) L3x3x1/4"

2 L5x3"x1/4"

(3) L5x3-1/2x5/16"

4 L5x3-1/2"x5/16" ROLLED OR EQUAL ARCHED COMPONENT.

SECURE LINTEL TO HEADER W/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED @ 16" O.C. (TYP FOR (3))

WALL S	STUD SCI	HEDULE	(10 FT H	EIGHT)
STUD SIZE		STUD SPA	CING (0.C.)	
	ROOF ONLY	ROOF & 1 FLOOR	ROOF & 2 FLOORS	NON-LOAD BEARING
2×4	24"	16"	12"	24"
2x6	24"	24"	16"	24"
NIOTEC				

1. BRACED WALLS STUDS SHALL BE A MAX. OF 16" O.C. 2. STUDS SUPPORTS OPTIONAL WALK-UP ATTIC SHALL BE

SPACED A MAX. OF 16" O.C. 3. TWO STORY WALLS SHALL BE FRAMED w/ 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. BALLOON FRAMED w/ CROSS BRACING @ 6'-0" O.C. VERTICALLY.

ROOF TRUSSES

PER MANUF.

- MIN. 4" P.T. POSTS OR COL. RATED

FOR 2000# (MIN, TYP) ATTACH POSTS

TO HEADER W/ SST CS16 STRAPS AND ATTACH POSTS TO FOUNDATION W/ SST

ABA44 POST BASE OR EQUIV. (TYP)

SUMMIT

3070 HAMMOND BUSINESS

PLACE, SUITE 171 RALEIGH, NC 27603

OFFICE: 919.380.9991

FAX: 919.380.9993

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CARO

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Engineering

Laboratory & Testing, P.C.

STRUCTURAL MEMBERS ONLY

DATE: 04/20/2020 SCALE: 22x34 1/4"=1'-0" 11x17 1/8"=1'-0" PROJECT *: 4240.500: 21196 DRAWN BY: EMB

ORIGINAL INFORMATION

CHECKED BY: LAG

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

SEE PG. S3.4 CONT. (2) TSP OR (2) 1.75"x9.25" LSL/LVL 3.5"X3.5" PSL COL. **FIREPLACE** SEE PG. S3.4 L - - H - - - -(3) (2) 2x12(2)(2)FLOOR TRUSS/SINGLE JOIST (3) 1.75"x14" LSL/LVL - - - A- - - -14" FLOOR JOISTS/TRUSSES PER MANUF. 14" FLOOR JOISTS/TRUSSES PER MANUF. (2) 1.75"×24" LVL (TOP FLUSH) ATTIC ROOF TRUSS PER MANUF. (2) 1.75"x14" LSL/LVL ATTIC ROOF TRUSSES PER MANUF.

COVERED DECK

EURO

(2) 1.75"X11.875" LVL/LSL DROPPED HEADER W/ (2) S.C. EACH BEARING

FRAME PORTAL WALL PER DETAIL 1/DIF

(2)2XIØ PT DROPPED

HEADER (MIN., TYP.)



CONT.

TSP OR

3.5"×3.5" PSL COL.

OPT. FIREPLACE

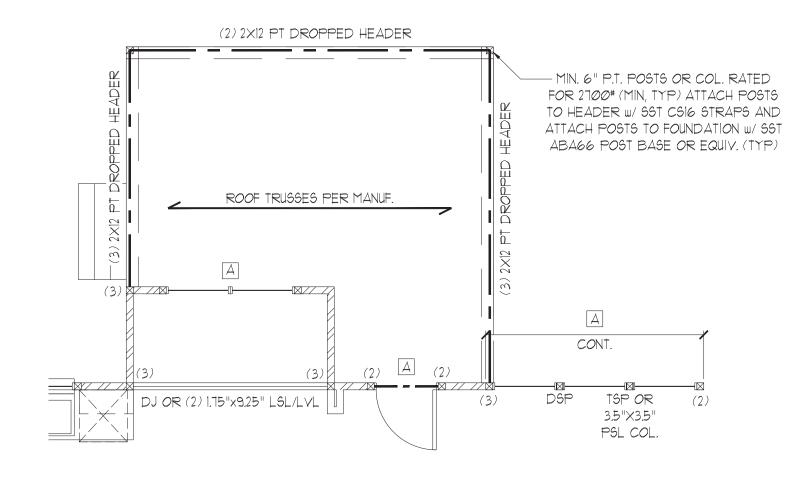
- ROOF TRUSSES PER MANUF, OR 2×4 RAFTERS a 16" O.C.

STRUCTURAL MEMBERS ONLY

DATE: 04/20/2020 9CALE: 22x34 1/4"=1'-0" 1|x|7 1/8"=1'-0" PROJECT *: 4240500: 21196 DRAWN BY: EMB CHECKED BY: LAG

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OPT. COVERED/SCREENED PORCH

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN

SCALE: 1/4"=1'-0" ON 22"x34" OR 1/8"=1'-0" ON 11"x17"

HEADER SCHEDULE						
TAG	SIZE	JACKS (EACH END)				
А	(2) 2×6	(1)				
В	(2) 2×8	(2)				
С	(2) 2×10	(2)				
D	(2) 2×12	(2)				
E	(2) 9-1/4" LSL/LVL	(3)				
F	(3) 2x6	(1)				
G	(3) 2x8	(2)				
Н	(3) 2xlØ	(2)				
1	(3) 2x12	(3)				

1. HEADER SIZES SHOWN ON PLANS ARE MINIMUMS. GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION. 2. ALL HEADERS TO BE DROPPED (U.N.O.). 3. STUD COLUMNS NOTED ON PLAN OVERRIDE STUD COLUMNS LISTED ABOVE (U.N.O.).

4. OPENINGS LESS THAN 3'-O" USE (1) KING STUD AT E.E. OPENINGS 3'-1" TO 4'-0" USE (2) KING STUDS AT E.E. OPENINGS 4'-1" TO 8'-0" USE (3) KING STUDS AT E.E. OPENINGS 8'-1" TO 12'-0" USE (5) KING STUDS AT E.E. OPENINGS 12'-1" TO 16'-0" USE (6) KING STUDS AT E.E.

ALL HEADERS WHERE BRICK IS USED, TO BE:

LINTEL (U.N.O.)

LINTEL SCHEDULE:

STEEL ANGLES TO HAVE MINIMUM 4" BEARING ONTO BRICK AT EACH END.

1) L3x3x1/4"

2 L5x3"x1/4"

3 L5x3-1/2x5/16"

4 L5x3-1/2"x5/16" ROLLED OR EQUAL ARCHED COMPONENT.

SECURE LINTEL TO HEADER W/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED @ 16" O.C. (TYP FOR (3))

WALL	STUD SCI	HEDULE	(10 FT H	EIGHT)
STUD SIZE		STUD SPA	CING (0.C.)	
	ROOF ONLY	ROOF & 1 FLOOR	ROOF & 2 FLOORS	NON-LOAD BEARING
2×4	24"	16"	12"	24"
2x6	24"	24"	16"	24"
NOTES:				

1. BRACED WALLS STUDS SHALL BE A MAX. OF 16" O.C. 2. STUDS SUPPORTS OPTIONAL WALK-UP ATTIC SHALL BE SPACED A MAX. OF 16" O.C.

3. TWO STORY WALLS SHALL BE FRAMED w/ 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. BALLOON FRAMED W/ CROSS BRACING @ 6'-0" O.C. VERTICALLY.

SHADED WALLS INDICATED LOAD BEARING WALLS

JOIST & BEAM SIZES SHOWN ARE MINIMUMS. BUILDER MAY INCREASE DEPTH FOR EASE OF CONSTRUCTION.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY MCKEE HOMES COMPLETED/REVISED ON <u>04/01/2020</u>. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION, SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

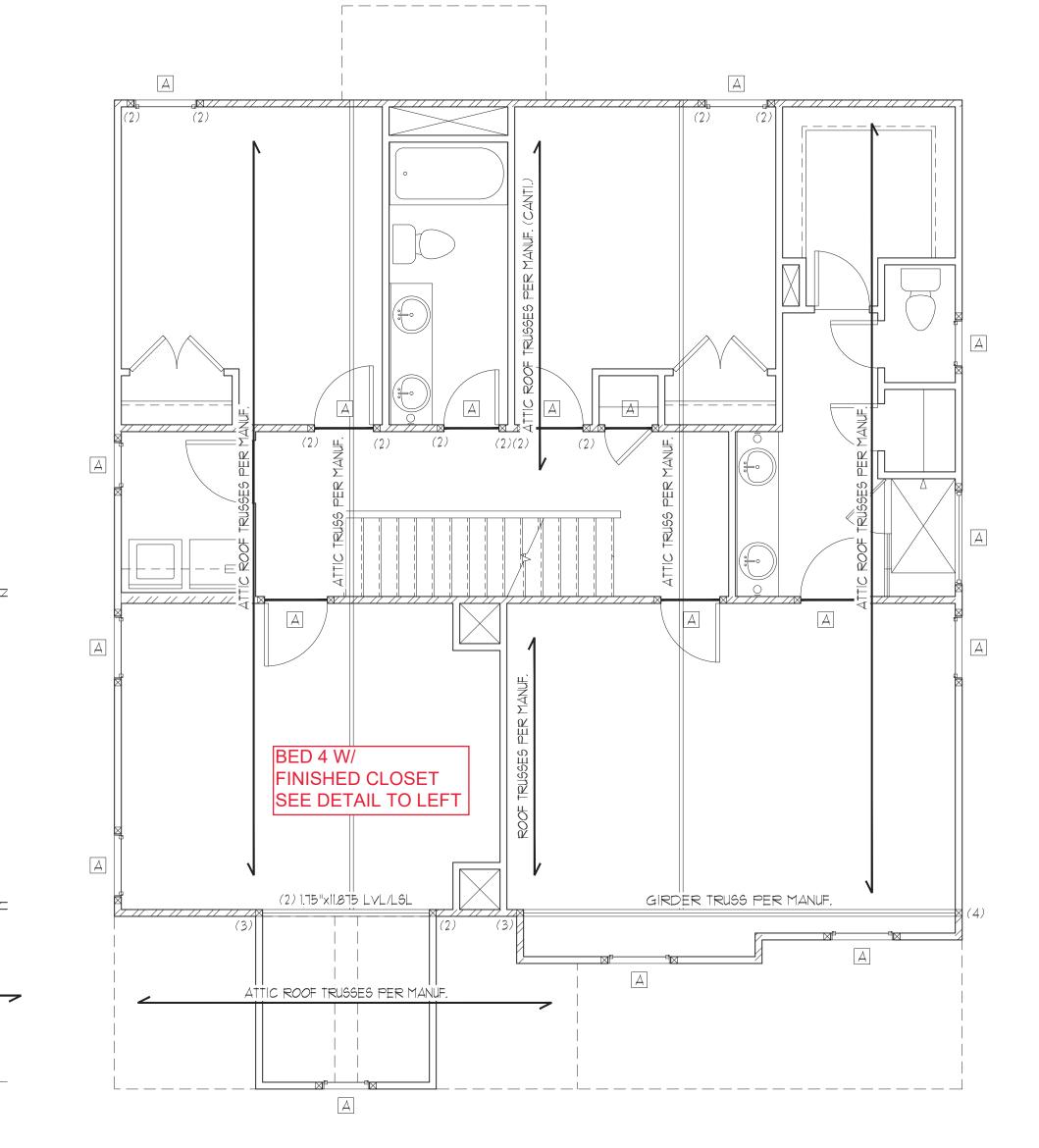
STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

SECOND FLOOR FRAMING PLAN

SCALE: 1/4"=1'-0" ON 22"x34" OR 1/8"=1'-0" ON 11"x17"

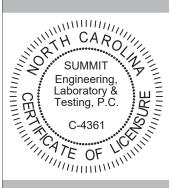


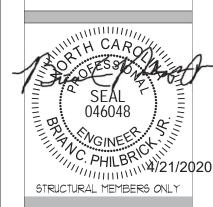
OPT. BED 4 W/ FINISHED CLOSET

ATTIC ROOF TRUSSES PER MANUF.







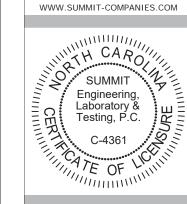


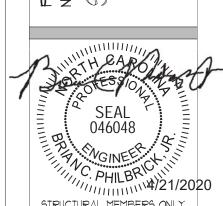
DATE: 04/20/2020

SCALE: 22x34 1/4"=1'-@" 11x17 1/8"=1'-@" PROJECT *: 4240500: 21196 DRAWN BY: EMB CHECKED BY: LAG

ORIGINAL INFORMATION

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS





STRUCTURAL MEMBERS ONLY

DATE: **04/20/2020** 9CALE: 22x34 1/4"=1'-0" 1|x|7 1/8"=1'-0" PROJECT *: 4240500: 21196 DRAWN BY: EMB CHECKED BY: LAG

ORIGINAL INFORMATION

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2×4 CJ a 24" O.C. LINE OF WALL BELOW VARIES PER ELEVATION

ALL ELEVATIONS

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

SECOND FLOOR FRAMING PLAN

SCALE: 1/4"=1'-0" ON 22"x34" OR 1/8"=1'-0" ON 11"x17"

TRUS9	3 UPLIFT CO	DNNECTOR SC	HEDULE
MAX. UPLIFT	ROOF TO WALL	FLOOR TO FLOOR	FLOOR TO FND
600 LBS	H2.5A	PER WALL SHEATHIN	NG & FASTENERS
12 <i>00</i> LBS	(2) H2.5A	CS16 (END = 11")	DTT2Z
1450 LBS	HTS2Ø	CS16 (END = 11")	DTT2Z
2000 LBS	(2) MTS2Ø	(2) CS16 (END = 11")	DTT2Z
2900 LBS	(2) HTS2Ø	(2) CS16 (END = 11")	HTT4
3685 LBS	LGT3-SDS2.5	MSTC52	HTT4
1 ALL PROD	DUCTS LISTED ARE	SIMPSON STRONG-TI	F FQUIVALENT

PRODUCTS LISTED ARE SIMPSON STRONG-TIE. EQUIVALENT PRODUCTS MAY BE USED PER MANUFACTURER'S SPECIFICATIONS.

2. UPLIFT VALUES LISTED ARE FOR SYP *2 GRADE MEMBERS.

3. REFER TO TRUSS LAYOUT PER MANUF. FOR UPLIFT VALUES AND TRUSS TO TRUSS CONNECTIONS. CONNECTORS SPECIFIED BY TRUSS MANUFACTURER OVERRIDE THOSE LISTED ABOVE.

4. CONTACT SUMMIT FOR REQUIRED CONNECTORS WHEN LOADS EXCEED THOSE LISTED ABOVE.

NOTE: IST PLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH

INSIDE FACE OF WALL (TYP, UNO)

NOTE: ROOF TRUSSES SHALL BE SPACED TO SUPPORT FALSE FRAMED DORMER WALLS (TYP, UNO)

REFER TO DETAIL 5/D3F FOR EYEBROW, RETURN OR SHED ROOF FRAMING REQUIREMENTS. (TYP FOR ROOFS PROTRUDING MAXIMUM 24" FROM STRUCTURE)

NOTE: TRUSS UPLIFT LOADS SHALL BE DETERMINED PER TRUSS MANUFACTURER IN ACCORDANCE WITH SECTION R802.II.I.I. WALL SHEATHING AND FASTENERS HAVE BEEN DESIGNED TO RESIST THE WIND UPLIFT LOAD PATH IN ACCORDANCE WITH METHOD 3 OF SECTION R602.3.5 OF THE 2018 NCRC. REFER TO BRACED WALL PLANS FOR SHEATHING AND FASTENER REQUIREMENTS.

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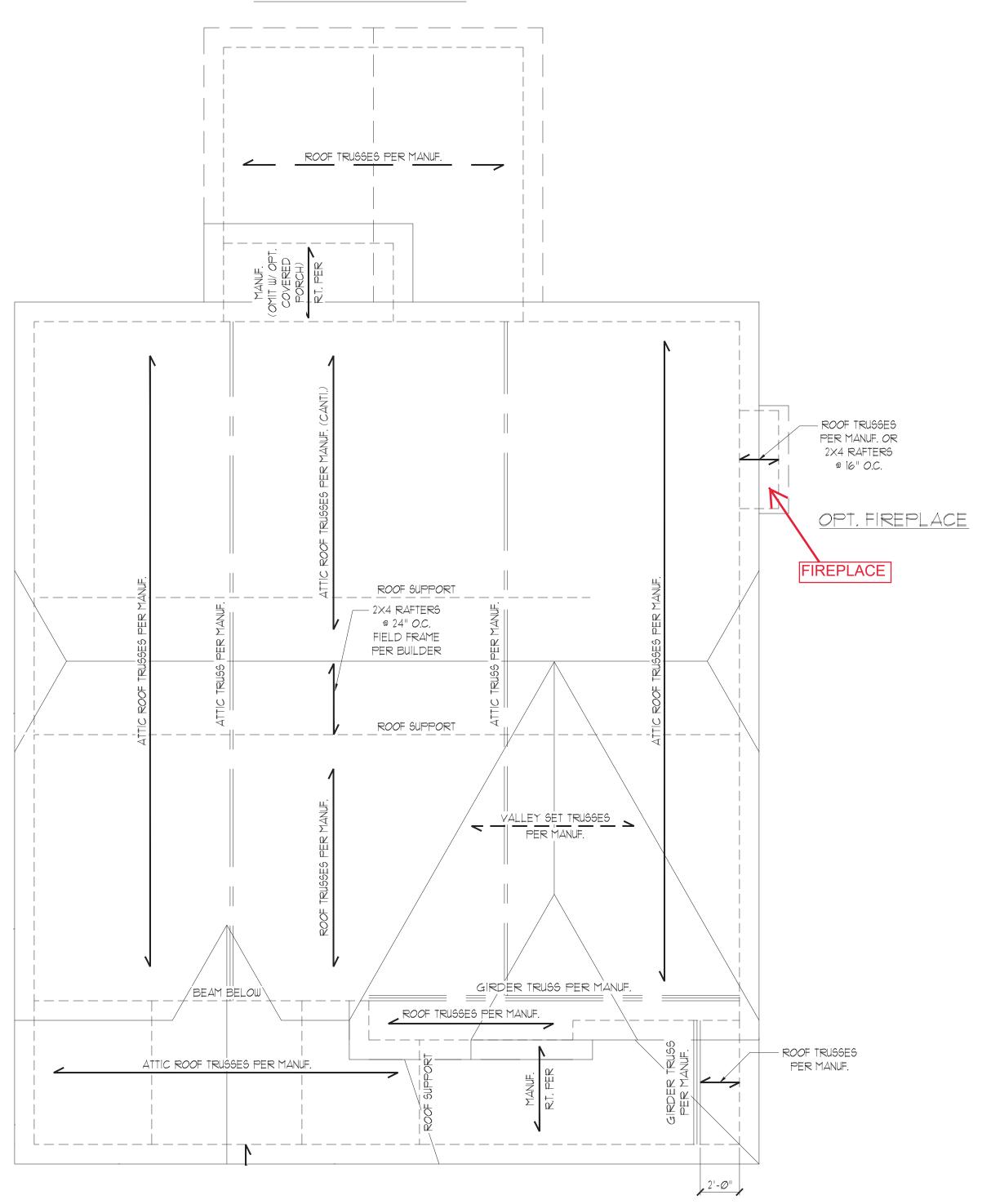
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

800F FRAMING PLAN

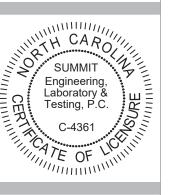
SCALE: 1/4"=1'-0" ON 22"x34" OR 1/8"=1'-0" ON 11"x17"

COVERED DECK

OPT. COVERED PORCH



SUMMIT
ENGINEERING LABORATORY TESTING
3070 HAMMOND BUSINESS
PLACE, SUITE 171
RALEIGH, NC 27603
OFFICE: 919.380.9991
FAX: 919.380.9993
WWW.SUMMIT-COMPANIES.COM



McKee Homes
109 Hay St., Suite 30

8150n 2020 - LH

SEAL 046048

STRUCTURAL MEMBERS ONLY

PRAWING DATE: *04/20/2020*

9CALE: 22x34 |/4"=|'-0" ||x|T |/6"=|'-0" PROJECT *: 4240500: 2T196 DRAIIN BY: EMB CHECKED BY: LAG

ORIGINAL INFORMATION
PROJECT * DATE
21196 04/20/2020

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S5.2

EURO

	REQUIRED	BRACED W	ALL PANEL CONNEC	CTIONS
	1.1.±==0.1.1	140 L ± U 0 0 1 0 0	REQUIRED	CONNECTION
METHOD	MATERIAL	MIN. THICKNESS	a PANEL EDGES	@ INTERMEDIATE SUPPORTS
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.
GB	GYPSUM BOARD	1/2"	5d COOLER NAILS** @ 7" O.C.	5d COOLER NAILS** @ 7" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.1	PER FIGURE R602.10.1

**OR EQUIVALENT PER TABLE RT02.3.5

REAR

HOUSE

FRONT

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2018 INTERNATIONAL RESIDENTIAL CODE WITH ALL LOCAL AND STATE AMENDMENTS.
- 2. WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE DESIGN WIND SPEEDS UP TO 130 MPH.
- REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES.
- 4. BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH TABLE R602.10.1
- 5. ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- 6. MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.10.1.
- 1. THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- 8. FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
- 9. FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- 10. A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH
- END OF A BRACED WALL LINE. 11. THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL
- NOT EXCEED 21 FEET. 12. MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR LESS
- SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.4.3 OF THE 2018 IRC OR DETAIL 2/D2f.
- 13. BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE
- CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.4.4 14. BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED
- IN ACCORDANCE WITH SECTION R602.10.4.5 15. CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED
- IN ACCORDANCE WITH SECTION R602.104.6
- 16. PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.1 (UNO)
- 17. ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS. 18. ABBREVIATIONS:

GB = GYPSUM BOARD PF = PORTAL FRAME

WSP = WOOD STRUCTURAL PANEL CS-XXX = CONT. SHEATHED ENG = ENGINEERED SOLUTION PF-ENG = ENG. PORTAL FRAME

INSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R602.10.4 AND FIGURE R602.10.3(4) OF THE 2018 NCRC.

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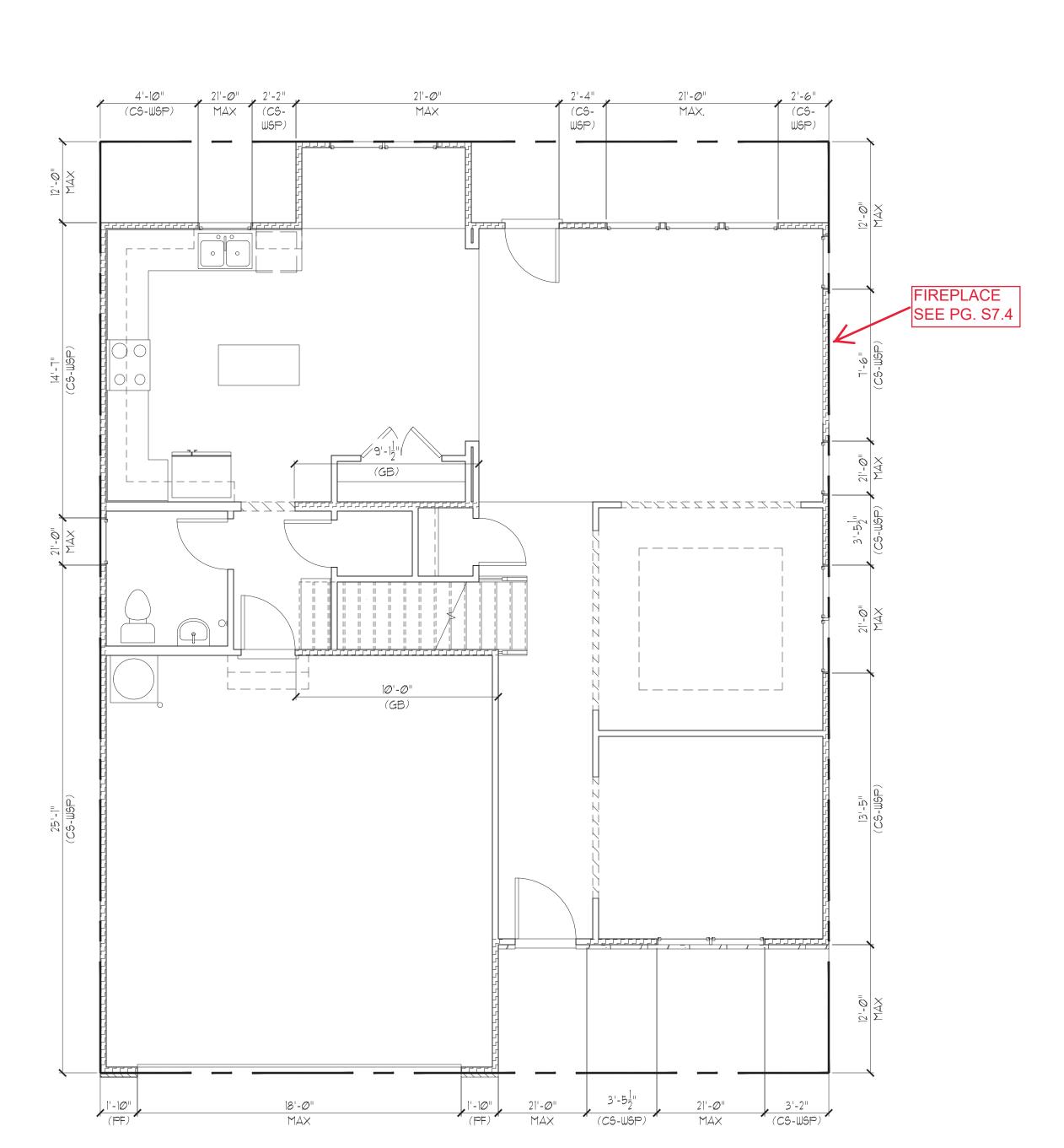
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STRUCTURAL. ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR BRACING PLAN

SCALE: 1/4"=1'-0" ON 22"x34" OR 1/8"=1'-0" ON 11"x17"

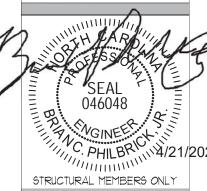
FIRST FLOOR BRACING (FT) CONTINUOUS SHEATHING METHOD REQUIRED PROVIDED FRONT 17,1 14.6 RIGHT 11.7 24.3 REAR 14.6 16.3 LEFT 11.7 39.6



EURO





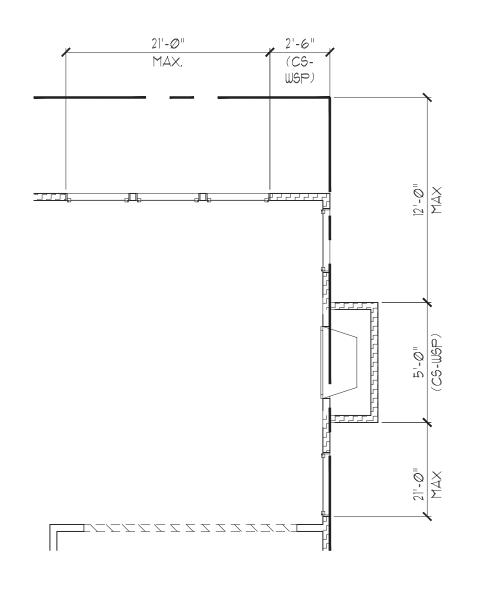


DATE: 04/20/2020

9CALE: 22x34 1/4"=1'-0" 11x17 1/8"=1'-0" PROJECT *: 4240.500: 21196 DRAWN BY: EMB CHECKED BY: LAG

ORIGINAL INFORMATION

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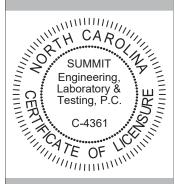


OPT. FIREPLACE

FIRST FL	OOR BRAC	ING (FT)
CONTIN	NUOUS SHEATHING M	ETHOD
	REQUIRED	PROVIDED
FRONT	14.6	*PER ELEV.*
RIGHT	12.3	21.8
REAR	14.6	16.3
LEFT	12.3	396

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PLACE, SUITE 171
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FAX: 919.380.9993
WWW.SUMMIT-COMPANIES.COM



McKee Homes
109 Hay St., Suite 301
Facetteville NC 28301

SEAL 046048

SEAL 046048

STRUCTURAL MEMBERS ONLY

DRAWING DATE: *04/20/2020* SCALE: 22x34 1/4' 1|x17 1/8'

9CALE: 22x34 |/4"=1'-0" |1x|1 |/8"=1'-0" |PROJECT *: 42405000: 2T196 |DRAIIN BY: EMB |CHECKED BY: LAG

ORIGINAL INFORMATION
PROJECT DATE
21196 04/20/2020

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

57.4

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR BRACING PLAN

SCALE: 1/4"=1'-0" ON 22"x34" OR 1/8"=1'-0" ON 11"x17"

	REQUIRED	BRACED W	ALL PANEL CONNEC	CTIONS	
			REQUIRED CONNECTION		
METHOD	MATERIAL	MIN. THICKNESS	a PANEL EDGES	@ INTERMEDIATE SUPPORTS	
CS-WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.	
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PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.1	PER FIGURE R602.10.1	

**OR EQUIVALENT PER TABLE RT02.3.5

HOUSE

BRACED WALL NOTES:

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- 2. WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE DESIGN WIND SPEEDS UP TO 130 MPH.
- REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING SIZES.
- 4. BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH TABLE R602.10.1
- 5. ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- 6. MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.10.1. 1. THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- 8. FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
- 9. FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL
- ENGINEERING CALCULATIONS. 10. A BRACED WALL PANEL SHALL BE LOCATED WITHIN 12 FEET OF EACH END OF A BRACED WALL LINE.
- 11. THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 21 FEET.
- 12. MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.4.3 OF THE 2018 IRC OR DETAIL 2/D2f.
- 13. BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.4.4
- 14. BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.4.5
- 15. CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.104.6
- 16. PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.1 (UNO)
- 17. ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS. 18. ABBREVIATIONS:

GB = GYPSUM BOARD

PF = PORTAL FRAME

WSP = WOOD STRUCTURAL PANEL CS-XXX = CONT. SHEATHED ENG = ENGINEERED SOLUTION PF-ENG = ENG. PORTAL FRAME

INSTALL HOLD-DOWNS FOR BRACED WALL END CONDITIONS PER SECTION R602.10.4 AND FIGURE R602.10.3(4) OF THE 2018 NCRC.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY MCKEE HOMES COMPLETED/REVISED ON <u>04/01/2020</u>. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

STRUCTURAL MEMBERS ONLY

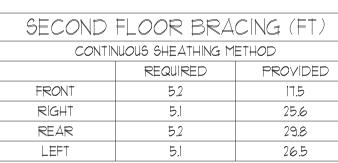
ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT, SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. FAILURE TO DO SO WILL VOID SUMMIT ELT LIABILITY.

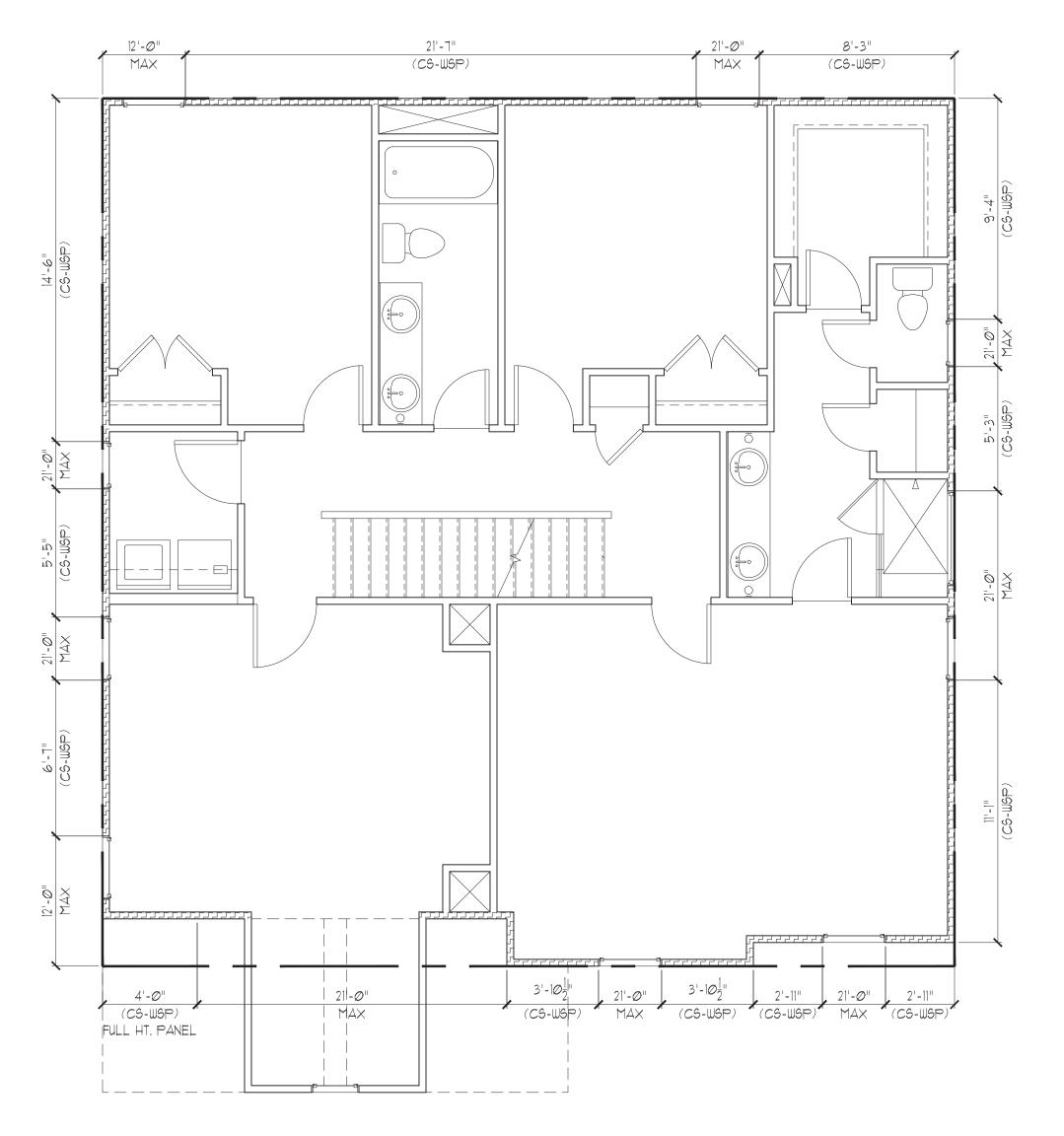
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

SECOND FLOOR BRACING PLAN

SCALE: 1/4"=1'-0" ON 22"x34" OR 1/8"=1'-0" ON 11"x17"

CONTINUOUS SHEATHING METHOD REQUIRED FRONT 17.5 RIGHT 25.6 REAR 5.2 29.8 LEFT 26.5 5.1











STRUCTURAL MEMBERS ONLY

DATE: 04/20/2020 9CALE: 22x34 1/4"=1'-0" 11x17 1/8"=1'-0" PROJECT *: 4240.500: 21196 DRAWN BY: EMB CHECKED BY: LAG

ORIGINAL INFORMATION

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

58.2



STRUCTURAL PLANS PREPARED FOR:

Standard Details

McKee Homes

109 Hay St., Suite 301 Fayetteville, NC 28301

DESIGNER:

These drawings are to be coordinated with the architectural, mechanical, plumbing, electrical, and civil drawings. This coordination is not the responsibility of the structural engineering of record (SER). Should any discrepancies become apparent, the contractor shall notify SUMMIT Engineering, Laboratory 4 Testing, P.C. before construction begins.

PLAN ABBREVIATIONS:

AB	ANCHOR BOLT	PT	PRESSURE TREATED
AFF	ABOVE FINISHED FLOOR	R6	ROOF SUPPORT
CJ	CEILING JOIST	9C	STUD COLUMN
CLR	CLEAR	SJ	SINGLE JOIST
DJ	DOUBLE JOIST	SPF	SPRUCE PINE FIR
DSP	DOUBLE STUD POCKET	551	SIMPSON STRONG-TIE
EE	EACH END	SYP	SOUTHERN YELLOW PINE
ΕW	EACH WAY	TJ	TRIPLE JOIST
NTS	NOT TO SCALE	TSP	TRIPLE STUD POCKET
oc	ON CENTER	TYP	TYPICAL
PSF	POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
PSI	POUNDS PER SQUARE INCH	WWF	WELDED WIRE FABRIC

Roof truss and floor joist layouts, and their corresponding loading details, were not provided to SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) prior to the initial design. Therefore, truss and joist directions were assumed based on the information provided by MERITAGE HOMES, Subsequent plan revisions based on roof truss and floor joist layouts shall be noted in the revision list, indicating the date the layouts were provided. Should any discrepancies become apparent, the contractor shall notify SUMMIT immediately.

Sheet No.	Description	
CSI	Cover Sheet, Specifications, Revisions	
Dlm	Monolithic Slab Foundation Details	_
Dis	Stem Wall Foundation Details	
Dlc	Crawl Space Foundation Details	
Dlb	Basement Foundation Details	_
DIf	Framing Details	_
		_
	·	
•		

REVISION LIST:

SHEET LIST:

Revision No.	Date	Project No.	Description
ı	1.11.19	-	Updated to 2018 NCRC

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 permission of SUMMIT Engineering, Laboratory 4 Testing, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT shall be considered the same entity.

The structure is only stable in its completed form The contractor hall 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.

Any structural elements or details not fully developed on the

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 SUMMIT 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 SUMMIT.

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 SUMMIT before

construction begins.

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 international residential code.

This structure and all construction shall conform to all applicable sections of local building codes.

All structural assemblies are to meet or exceed to requirements

of the current local building code.

FOUND ATIONS:

The structural engineer has not performed a subsurface investigation. Verification of this assumed value is the responsibility of the owner or the contractor. Should any contacted before proceeding.

The bottom of all footings shall extend below the frost line for the region in which the structure is to be constructed. However,

the bottom of all footings shall be a minimum of 12" below grade, the bottom of all loads 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 against any subgrade containing

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 the manual of Steel Construction "Load Resistance Factor Design" latest editions.

Structural steel shall receive one coat of shop applied rust-inhibitive paint. All steel shall have a minimum yield stress (F $_{\! u}\!\!$) of 36 ksi unless

otherwise noted.

Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS D.I. Electrodes for shop and field welding shall be class ETØXX. All welding shall be performed by a certified welder per the above

Concrete shall have a normal weight aggregate and a minimum compressive strength (f'c) at 28 days of 3000 psi, 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 taraet values as follows:

3.2. Exterior Slabs: 5%

No admixtures shall be added to any structural concrete without

Concrete slabs-on-grade shall be constructed in accordance with ACI 302.IR-96: "Guide for Concrete Slab and Slab Construction".

The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported conditions not in accordance with the above assumptions.

Control or saw cut joints 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

Control or saw cut Joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished Reinforcing steel may not extend through a control joint. Reinforcing steel may extend through a saw cut joint.

All welded wire fabric (WWF.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The WWF, shall be securely supported during the concrete pour.

CONCRETE REINFORCEMENT:

1. Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased abrasion resistance, and residual strength.
Fibermesh reinforcing to be 100% virgin polypropylene fibers

containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.

Application of fibermesh per cubic yard of concrete shall equal

a minimum of 0.1% by volume (1.5 pounds per cubic yard)
Fibermesh shall comply with ASTM CIII6, any local building code
requirements, and shall meet or exceed the current industry

standard. Steel reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.

ASITI Abib, grade 60.

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" 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 with a class B

Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters. 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.

Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted

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 be Southern-Yellow-Pine (SYP) 2.

LVL or PSL engineered wood shall have the following minimum

design values: 2.1. E = 1,900,000 psi

2.2. Fb = 2600 psi 2.4.Fc = 700 psi

Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15. All . other moisture exposed wood shall be treated in accordance

with AWPA standard C-2

Nails shall be common wire nails unless otherwise noted. Lag screws shall conform to ANSI/ASME standard B182.1-1981. Lead holes for lag screws shall be in accordance with NDS

specifications. All beams shall have full bearing on supporting framing members

unless otherwise noted.

Exterior and load bearing stud walls are to be 2x4 SYP *2 * 16" OC. unless otherwise noted. Studs shall be continuous from the sole plate to the double top plate. Studs shall only be discontinuous at headers for window/door openings. A minimum of one king stud shall be placed at each end of the header.

Kina studs shall be continuous. king stude shall be continuous.

Individual stude forming a column shall be attached with one lod nail @ 6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be properly blocked at all floor levels to ensure proper load transfer. Multi-ply beams shall have each ply attached with (3) 10d nails \$\frac{1}{2}\$

Four and five ply beams shall be bolted together with (2) rows of 1/2" diameter through bolts staggered © 16" O.C. unless noted otherwise.

WOOD TRUSSES:

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 five (5) days for review. The review by the SER shall review for overall compliance with the design documents. The SER shall assume no responsibility for the correctness for 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 1-10), 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 specification for Metal Plate Connected Wood Trusses."

information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-91). 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.

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.

EXTERIOR WOOD FRAMED DECKS:

Decks are to be framed in accordance with local building codes and as referenced on the structural plans, either through

UDOD STRUCTURAL PANELS:

I. 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

All structurally required wood sheathing shall bear the mark of

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. Sheathing shall be applied with the long direction

perpendicular to framing, unless noted otherwise.

Roof sheathing shall be APA rated sheathing exposure 1 or 2.

Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC 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 with the long direction perpendicular to framing Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of plywood clips or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.

Wood floor sheathing shall be APA rated sheathing exposure I or 2. Attach sheathing to its supporting framing with (I)-8d CC ringshank 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. Use suitable edge support by use of T4G plywood or lumber blocking unless otherwise noted. Panel and joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
Sheathing shall have a 1/8" gap at panel ends and edges as

TRUCTURAL FIBERBOARD PANELS:

Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards. All structurally required fiberboard sheathing shall bear the

Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more Sheathing shall have a 1/8" gap at panel ends and edges are

SUMMIT





DATE: ØVII/2Ø19 SCALE: 22x34 1/4"+1"-@" ||x|T 1/8"+1"-@" DRAWN BY: EMB

CHECKED BY: WAJ ORIGINAL INFORMATION
PROJECT P DATE

REFER TO COVER SHEET FOR A

TYP. FOUNDATION WALL DETAIL

FTG. WIDTH CHARTS

STANDARD - BRICK

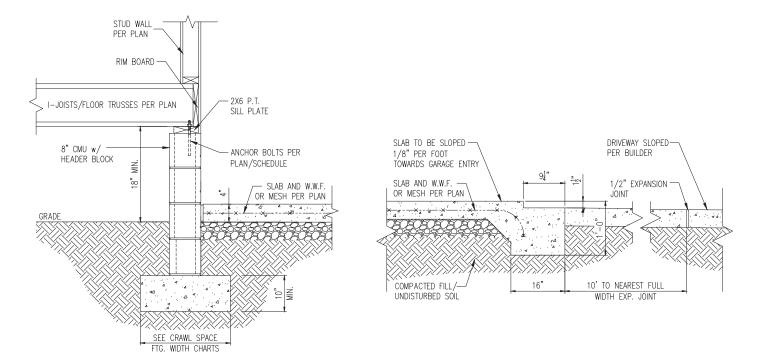
SLAB AT GARAGE DOOR

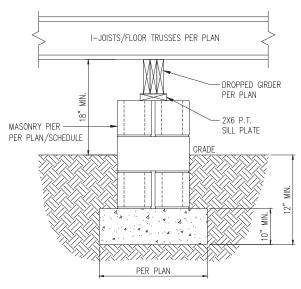
FTG. WIDTH CHARTS

STANDARD - SIDING

HOUSE/GARAGE WALL DETAIL

TYP. GARAGE CURB DETAIL





STANDARD - SIDING

TYP. PIER & GIRDER DETAIL

PIER SIZE AND HEIGHT SCHEDULE

	HOLLOW	SOLID		
8"X16"	UP TO 32" HEIGHT	UP TO 5'-0" HEIGHT		
12"X16"	UP TO 48" HEIGHT	UP TO 9'-0" HEIGHT		
16"X16"	UP TO 64" HEIGHT	UP TO 12'-0" HEIGHT*		
24"X24"	UP TO 96" HEIGHT	UP TO 12'-0" HEIGHT*		
*(4) #4 CONT. REBAR w/ #3 STIRRUPS @ 16" O.C.				
AND 24" MIN. LAP JOINTS				

STANDARD - BRICK

CRAWL SPACE FOOTING WIDTH

CITAME SI ACE I COTINO	MIDITI				
# OF STORIES	WIDTH BASED ON SOIL BEARING CAPACITY				
	1500 PSF	2000 PSF	2500 PSF		
1 STORY - STD.	16"	16"	16"		
1 STORY - BRICK VENEER	21"*	21"*	21"*		
2 STORY - STD.	16"	16"	16"		
2 STORY - BRICK VENEER	21"*	21"*	21"*		
3 STORY - STD.	23"	18"	18"		
3 STORY - BRICK VENEER	32"*	24"*	24"*		
*5" BRICK LEDGE HAS BEEN ADDED TO THE CRAWL SPACE FOOTING WIDTH FOR BRICK SUPPORT					

WALL ANCHOR SCHEDULE

11/ALL	ANOHOR SCHEDULE				
TYPE	OF ANCHOR	MIN. CONC.	SPACING	INTERIOR	EXTERIOR
		EMBEDMENT	EMBEDMENT	WALL	WALL
1/2"ø	A307 BOLTS w/	7"	6'-0"	YES	YES
STD. 9	0° BEND				
SST -	MAS	4"	5'-0"	NO	YES
HILTI Ł	(WIK BOLT KBI 1/2-2-3/4	2-1/4"	6'-0"	YES	NO
1/2"ø	HILTI THREADED ROD	7"	6'-0"	YES	YES
w/ HI	F HY150 ADHESIVE				

NOTE: INSTALL ALL ANCHORS 12" MAX. FROM ALL BOTTOM PLATE ENDS AND JOINTS.

- NOTES:

 1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
- 2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
- 3. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.

 4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR
- BRACED WALL PANEL LAYOUT, DIMENSIONS, ATTACHMENT AND CONNECTIONS
- 5. REFER TO LOCAL AND STATEWIDE CODES FOR ADDITIONAL AMENDMENTS AND REQUIREMENTS NOT SHOWN
- 6. PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE ZONE. INSTALL PER TABLE N1102.2.10 OF THE 2018 NCRC

SUMMIT 3070 HAMMOND BUSINES: PLACE; SUITE 171 RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.0

TH CAR SUMMIT

tails Det PROJECT: Standard D Crawl



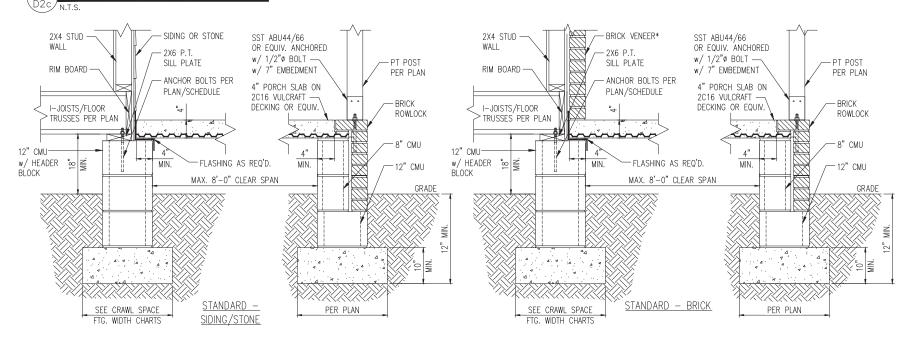
DATE: ØVII/2Ø19 SCALE: 22x34 1/4"+1"-@" llxi1 1/8"+1"-@" PROJECT *: 424@5@@ DRAWN BY: EMB CHECKED BY: WAJ

PROJECT DATE

REFER TO COVER SHEET FOR A

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TYP. FRONT PORCH DETAIL



FRONT PORCH DETAIL w/ SUSPENDED SLAB

DECK ATTACHMENT SCHEDULE (ALL STRUCTURES EXCEPT BRICK)

FASTENERS	MAX. 8'-0" JOIST	MAX. 16'-0" JOIST
	SPAN	SPAN
5/8" GALV. BOLTS w/ NUT & WASHER ^b	(1) @ 3'-6" O.C.	(1) @ 1'-8" O.C.
AND	AND	AND
12d COMMON GALV. NAILS C	(2) @ 8" O.C.	(3) @ 6" O.C.

- a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.
- b. MINIMUM EDGE DISTANCE FOR BOLTS IS $2\frac{1}{2}$ ".
- c. NAILS MUST PENETRATE THE SUPPORTING STRUCTURE BAND A MINIMUM OF $1\frac{1}{2}^{\circ}$

DECK ATTACHMENT SCHEDULE (BRICK STRUCTURES)

FASTENERS	MAX. 8'-0" JOIST	MAX. 16'-0" JOIST
	SPAN	SPAN
5/8" GALV. BOLTS w/ NUT & WASHE	R ^b (1) @ 2'-4" O.C.	(1) @ 1'-4" O.C.

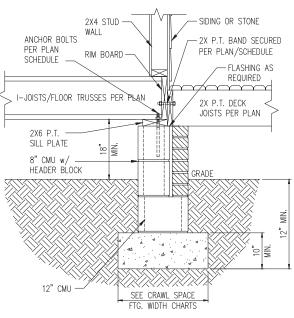
- a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.
- b. MINIMUM EDGE DISTANCE FOR BOLTS IS $2\frac{1}{2}$ ".

CRAWL SPACE FOOTING WIDTH

FOOTING WIDTH FOR BRICK SUPPORT

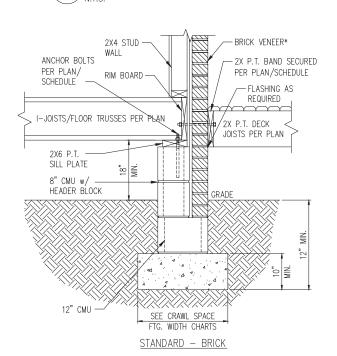
# OF STORIES	WIDTH BASED ON SOIL BEARING CAPACITY			
	1500 PSF	2000 PSF	2500 PSF	
1 STORY - STD.	16"	16"	16"	
1 STORY - BRICK VENEER	21"*	21"*	21"*	
2 STORY - STD.	16"	16"	16"	
2 STORY - BRICK VENEER	21"*	21"*	21"*	
3 STORY - STD.	23"	18"	18"	
3 STORY - BRICK VENEER	32"*	24"*	24"*	
*5" BRICK LEDGE HAS BEEN ADDED TO THE CRAWL SPACE				

*BRICK TIES SPACED @ 24" O.C. HORIZ. & 16" O.C. VERT. AND 3/16"Ø WEEP HOLES @ 33" O.C. LOCATED A MINIMUM OF 4" ABOVE THE EARTH



STANDARD - SIDING/STONE

DECK ATTACHMENT DETAIL



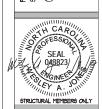
DECK ATTACHMENT DETAIL W/ BRICK

- ${\hbox{NOTES:}}\ 1.$ REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
- 2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE. 3. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS,
- SLOPES AND DEPRESSIONS.
 4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR BRACED WALL PANEL LAYOUT, DIMENSIONS, ATTACHMENT AND
- CONNECTIONS 5. REFER TO LOCAL AND STATEWIDE CODES FOR ADDITIONAL AMENDMENTS AND REQUIREMENTS NOT SHOWN
- 6. PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE ZONE. INSTALL PER TABLE N1102.2.10 OF THE 2018 NCRC

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Ω PROJECT: Standard Details Crawl Space 1



DATE: ØVII/2Ø19 SCALE: 22x34 1/4"+1"-@" llxi1 1/8"+1"-@" DRAWN BY: EMB CHECKED BY: WAJ

REFER TO COVER SHEET FOR A

D2c







CLIENT:
MCKee Homes LLC
MOS Hay Street, Suite 30
Fayetteville, NC 2830

PROJECT: Standard Details Frâming Details



DAUNG

DATE: 0/1/20/9

SCALE: 22/34 1/4**1*-0*

INT 1/6**1*-0*

PROJECT 4/40500

DRAWN BY, B*B

CHECKED BY, IMAJ

ORIGINAL INFORMATION
PROJECT * DATE

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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