

#### INDEX TITLE SHEET / COVER SHEET IAS BUILDING SECTIONS 0 ΙA FRONT ELEVATION 'A' I.I A S BUILDING SECTIONS ROOF PLAN 'A' IST FLOOR UTILITY PLAN HA 2ND FLOOR UTILITY PLAN SIDE AND REAR ELEVATIONS 'A' MONOLITHIC SLAB PLAN 'A' 3 MS A 3 SW A STEM WALL PLAN 'A' IST FLOOR PLAN 'A' ARCHITECTURAL SHEETS 4 A 2ND FLOOR PLAN 'A' FRONT ELEVATION 'B' ΙB ROOF PLAN 'B' HB SIDE AND REAR ELEVATIONS 'B' MONOLITHIC SLAB PLAN 'B' 3 MS B 3 SW B STEM WALL PLAN 'B' IST FLOOR PLAN 'B' 4 B 2ND FLOOR PLAN 'B' 5 B FRONT ELEVATION 'C' ROOF PLAN 'C' IICSIDE AND REAR ELEVATIONS 'C' 2 C 3 MS C MONOLITHIC SLAB PLAN 'C' 3 SW C STEM WALL PLAN 'C' IST FLOOR PLAN 'C' 4 C 2ND FLOOR PLAN 'C' 5 C FRONT ELEVATION 'D' I D ROOF PLAN 'D' SIDE AND REAR ELEVATIONS 'D' 2 D MONOLITHIC SLAB PLAN 'D' 3 MS D STEM WALL PLAN 'D' 3 SW D IST FLOOR PLAN 'D' 2ND FLOOR PLAN 'D 5 D FRONT ELEVATION 'E' ΙE I.I E ROOF PLAN 'E' 2 E SIDE AND REAR ELEVATIONS 'E' 3 MS E MONOLITHIC SLAB PLAN 'E' 3 SW E STEM WALL PLAN 'E' IST FLOOR PLAN 'E' 4 E 5 E 2ND FLOOR PLAN 'E' FRONT ELEVATION 'F' ROOF PLAN 'F' LLE 2 F SIDE AND REAR ELEVATIONS 'F' MONOLITHIC SLAB PLAN 'F' 3 MS F STEM WALL PLAN 'F' IST FLOOR PLAN 'F' 4 F 5 F 2ND FLOOR PLAN 'F' ALL CONSULTANT DRAWINGS ACCOMPANYING THESE ARCHITECTURAL DRAWINGS HAVE NOT BEEN PREPARED BY OR UNDER THE DIRECTION OF GMD DESIGN GROUP, INC. GMD DESIGN GROUP INC. THEREFORE ASSUMES NO LIABILITY FOR THE COMPLETENESS OR CORRECTNESS OF THESE DRAWINGS.

# EXPRESS HOMES 40' SERIES MODEL GALEN-LH

Mason Ridge Lot 2 40 Fair Child Road Spring Lake, NC 28390 NO: DATE:

PLAN CHANGES DESCRIPTION: BOJECT TITLE: 03 30 23 INITIAL PLAN RELEAS 40' Series

FOR CONSTRUCTION

# GENERAL NOTES DESIGNER NORTH CAROLINA:

THESE DOCUMENTS ARE THE PROPERTY OF THE DESIGNER AND SHALL NOT BE COPIED, DUPLICATED, ALTERED, MODIFIED OR REVISED IN ANY WAY WITHOUT THE EXPRESSED WRITTEN APPROVAL OF THE DESIGNER.

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE AND ALL INCONSISTENCES SHALL BE BROUGHT TO THE ATTENTION OF THE DEVELOPER AND THE DESIGNER BEFORE PROCEEDING WITH WORK. ANY ERRORS OR OMISSIONS FOUND IN THESE DRAWINGS SHALL BE BROUGHT TO

DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING UNLESS

**ALL TRUSS DRAWINGS TO BE REVIEWED AND APPROVED BY THE STRUCTURAL** ENGINEER PRIOR TO ISSUANCE OF BUILDING PERMIT.

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

ALL ANGLED PARTITIONS ARE 45 DEGREES UNLESS OTHERWISE NOTED.

PROVIDE FIREBLOCKING, (PER LOCAL CODES.)

ALL ELECTRICAL AND MECHANICAL EQUIPMENT AND METERS ARE SUBJECT TO

PROVIDE BLOCKING AND/OR BACKING AT ALL TOWEL BAR, TOWEL RING AND/OR TOILET PAPER HOLDER LOCATIONS, AS SHOWN PER PLAN. TYPICAL AT ALL BATHROOMS AND POWDER ROOMS. VERIFY LOCATIONS AT FRAMING WALK.

ELASTOMERIC SHEET WATERPROOFING: FURNISH AND INSTALL ALL WATERPROOFING ASPHALT INTEGRALLY BONDED TO POLYETHYLENE SHEETING, OR EQUAL INSTALL PER MANUFACTURE'S AND TRADE ASSOCIATION'S PRINTED INSTALLATION INSTRUCTIONS, 6" MINIMUM LAP AT ALL ADJACENT WALL SURFACES.

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

SHOP DRAWING REVIEW AND DISTRIBUSTION, ALONG WITH PRODUCT SUBMITTALS. RESPONSIBILITY OF THE GENERAL CONTRACTOR, UNLESS DIRECTED OTHERWISE

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

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS REPRESENTED ON THESE DOCUMENTS INCLUDING THE WORK AND MATERIALS FURNISHED BY SUBCONTRACTORS AND VENDORS. THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM THE

THE BUILDER SYMELT INVANIES AND ALL REPORTS RECEIVED FROM THE SECTECHNICAL ENGINEER (SOILS REPORT), ON THE STUDY OF THE PROPROSED SITE, TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR. IN THE EVENT THE GEOTECHNICAL REPORTS DO NOT EXIST, THE SOILS CONDITION SHALL BE ASSUMED TO BE A MINIMUM DESIGN SOIL PRESSURE STATED BY THE STRUCTURAL ENGINEER OF RECORD FOR THE PURPOSE OF STRUCTURAL DESIGN GENERAL CONTRACTOR SHALL ASSURE THE SOIL CONDITIONS MEET OR EXCEED

ALL WORK PERFORMED BY THE GENERAL CONTRACTOR SHALL COMPLY AND CONFORM WITH LOCAL AND STATE BUILDING CODES, ORDINANCES AND THE REPORT OF THESE REQUIREMENTS. AND GOVERNING REGULATIONS.

PROVIDE AN APPROVED WASHER DRAIN PAN AT SECOND FLOOR ONLY

WINDOW SUPPLIER TO VERIFY AT LEAST ONE WINDOW IN ALL BEDROOMS TO HAVE A CLEAR OPENABLE AREA OF 4,0 SQ FT. THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 22" AN THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20". GLAZING TOTAL AREA OF NOT LESS THAN 5,0 SQ FT IN THE CASE OF A GROUND WINDOW AND NOT LESS THAN 5,7 SQ FT IN THE CASE OF AN UPPER STORY WINDOW, (PER NORG SECTION R3)

ALL HANDRAIL BALLUSTERS TO BE SPACED SUCH THAT A 4" SPHERE CANNOT PASS PROVIDE STAIR HANDRAILS AND GUARDRAILS PER

BUILDER SET:

CONSULTANTS:

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

CONSTRUCTION REQUIREMENTS AND QUALITY: PROVIDE WORK OF THE SPECIFIC QUALITY WHERE QUALITY LEVEL IS NOT INDICATED, PROVIDE WORK OF QUALITY CUSTOMARY IN SIMILAR TYPES OF WORK. WHERE THE PLANS AND SPECIFICATIONS, CODES, LAWS, REGULATIONS, THESE OF MORN. THERE THE FLAND AND SPECIFICATIONS, CODIES, DAVIS, REQUILATIONS, MANUFACTURERS RECOMMENDATIONS OR INDUSTRY STANDARDS REQUIRE WORK OF HIGHER QUALITY OR PERFORMANCE, PROVIDE WORK COMPLYING WITH THOSE REQUIREMENTS AND QUALITY WERRET TWO OR MORE QUALITY PROVISIONS OF THOSE REQUIREMENTS COMFLICT WITH THE MOST STRINGENT REQUIREMENTS, WHERE REQUIREMENTS ARE DIFFERENT BUT APPARENTLY EQUAL, AND HEREE IT IS UNCERTAIN MICH REQUIREMENT IS MOST STRINGENT, OBTAIN CLARIFICATION FROM THE 6MD DESIGN GROUP BEFORE PROCEEDING. AREA CALCULATIONS:

ROJECT NO: GMD17049

MODEL 'GALEN' SQUARE FOOTAGES

TITLE SHEET ELEV 'D'/'E'/'F'

Ist FLOOR 2nd FLOOR 1358 SF TOTAL LIVING 2340 SF GARAGE 416 SF 87 SF PORCH

Express

March 30, 2023



# - GRADE CONDITIONS MAY VARY FOR INDIVIDUAL SITE FROM THAT SHOWN. BUILDER SHALL VERIFY AND COORDINATE PER ACTUAL SITE CONDITIONS. - NINDOW HEAD HEIGHTS. IST FLOOR = 1-0\* UND. ON ELEVATIONS. 2NO FLOOR = 1-0\* UND. ON ELEVATIONS. - ROOFINS, PITCHED SHINGLES PER DEVELOPER. - NINDOWS, MANUFACTURER PER DEVELOPER. - NINDOWS, MANUFACTURER PER DEVELOPER. - GARAGE DOORS, AS SELECTED BY DEVELOPER, RAISED PANEL AS SHOWN. - ALL EXTERIOR MATERIALS TO BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS. - PROTECTION AGAINST DECAY; (ALL PORTIONS OF A PORCH, SCREEN PORCH OR DECK FROM THE BOTTOM OF THE HEADER DOWN, INCLUDING POST, RAILS, PICKETS, STEPS AND FLOOR STRUCTURE.) - INSIL ATION. PER TABLE NIDOZI.2. - ENLIATION. PER TABLE NIDOZI.2. - CELLING WITH ATTIC ABOVE: R-39 BATTS MINIMAM, VERIFY - CRANL SPACE FLOORING: R-14 BATTS MINIMAM, VERIFY - ATTIC KNEEDALL: - R-15 BATTS MINIMAM, VERIFY - ATTIC KNEEDALL: - R-16 BATTS MINIMAM, VERIFY - R-16 BATTS MINIMAM, VERIFY - R-16 BATTS MINIMAM, VERIFY - R-17 BATTS MINIMAM, VERIFY - R-18 BATTS MINIMAM, V

# MASONRY: ADHERED STONE VENEER AS SELECTED BY DEVELOPER, HEIGHT AS NOTED. MASONRY FULL BRICK AS SELECTED BY DEVELOPER. HEIGHT AS NOTED. 3 MASONRY FULL STONE AS SELECTED BY DEVELOPER, HEIGHT AS NOTED. 4 8" SOLDIER COURSE. 5 ROWLOCK COURSE 6 N/A TYPICALS: TORROSION RESISTANT SCREEN LOUVERED VENTS, SIZE AS NOTED. B CODE APPROVED TERMINATION CHIMNEY CAP. $\boxed{9}$ Corrosion resistant roof to wall flashing. Code compliant flashing per NCRC R905.2.8.3 O STANDING SEAM METAL ROOF, INSTALL PER MANUFCATURER'S WRITTEN INSTRUCTIONS. III DECORATIVE WROUGHT IRON, SEE DETAILS. SIDING: [2] VINTL SHAKE SIDING PER DEVELOPER MITH VINYL CORNER TRIM PER DEVELOPER. (AT SPECIFIED LOCATIONS: FIBER CHMENT SHAKE SIDING PER DEVELOPER W IX4 CORNER TRIM BOARD.) 3 VINYL LAP SIDING PER DEVELOPER WITH VINYL CORNER TRIM PER DEVELOPER. (AT SPECIFIED LOCATIONS: FIBER CEMENT LAP SIDING PER DEVELOPER W IX4 CORNER TRIM BOARD.) 4 VINYL WAVY SIDING PER DEVELOPER WITH VINYL CORNER TRIM PER DEVELOPER. (AT SPECIFIED LOCATIONS: FIBER CEMENT WAYY SIDING PER DEVELOPER W IX4 CORNER TRIM BOARD.) 15 VINYL BOARD AND BATT SIDING PER DEVELOPER WITH VINYL CORNER TRIM PER DEVELOPER. (AT SPECIFIED LOCATIONS: FIBER CEMENT PANEL SIDING W IX3 BATTS AT 12" O.C. PER DEVELOPER W IX4 CORNER TRIM BOARD.) ALL MINDOWS MHOSE OPENING IS LESS THAN 24" ABOVE THE FINISH FLOOR AND MHOSE OPENING IS GREATER THAN 12" ABOVE THE OUTSIDE MALKING SURFACE MUST HAVE MINDOW OPENING LIMING MOVED COMPLYING MITH THE NCRC SECTION R312.21 AND R312.22.2.



NO: DATE: REVISION:

O1.04.29

PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

CLIENTS NAME:



PROJECT NO: GMD17049

SHEET TITLE:

'GALEN' - LH EXTERIOR ELEVATIONS '4EGF-E'

PRINT DATE:

March 30, 2023

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

THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN THE NET PREE VENILIATING AREA SHALL NOT BE LESS THAN VISO OF THE AREA OF THE SPACE VENTILIATED, PROVIDED THAT AT LEAST 50 PERCENT AND NOT MORE THAN 80 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE THE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY EAVE OR CORNICE VENTS.

- EXCEPTIONS:

  1. EXCLOSED ATTIC/RAFTER SPACES REQUIRING LESS THAN
  1. SQ FT OF VENTILATION MAY BE VENTED WITH CONTINUOUS
  SOFFIT VENTILATION ONLY.
- 2. ENCLOSED ATTIC/RAFTER SPACES OVER UNCONDITIONED SPACE MAY BE VENTED WITH CONTINUOUS SOFFIT VENT ONLY

GENERAL CONTRACTOR SHALL VERIFY THE NET FREE VENTILATION OF THE VENT PRODUCT SELECTED BY OWNER. VERIFY WITH MANUFACTURER OF HIGH AND LOW VENTS VENITI WITH MANUFACTURER OF HIGH AND LOW YEARS 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.

BY THE BUILDING OFFICIAL.
ALL OVERLAP FRAMED ROOF AREAS SHALL HAVE
OPENINGS BETWEEN THE ADJACENT ATTICS IN THE ROOF
SHEATHING KAS ALLOWED BY THE STRUCTURAL ENGINEER)
TO ALLOW PASSAGE AND ATTIC VENTILATION
BETWEEN THE TWO OR ISOLATED ATTIC SPACES SHALL
BE VENTED INDEPENDENTLY TO CEDE REQUIREMENTS.

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

## (PER SECTION R806.2)

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

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

**ROOF AREA I.=** 1344 SF 1349 SQ. FT. X 144 = 201456 SQ. IN. 201456 SQ. IN. / 150 = 1343.04 SQ. IN. OF VENT REQ'D

**ROOF AREA 2:=** 30 SF 30 S0, FT, X I44 = 4320 S0, IN, 4320 S0, IN, / I50 = 28.80 S0, IN, *O*F VENT REQ'D

#### NOTES:

- ALL ROOF DRAINAGE SHALL BE PIPED TO STREET OR APPROVED DRAINAGE FACILITY.
- DASHED LINES INDICATE WALL BELOW. LOCATE GUTTER AND DOWNSPOUTS PER BUILDER.
- PITCHED ROOFS AS NOTED.

- TRUSS MANUFACTURER SHALL SUBMIT STRUCTURAL CALCS AND SHOP DRAWINGS TO THE BUILDER'S GENERAL CONTRACTOR AND BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATIONS.
- ALL PLIMBING VENTS SHALL BE COMBINED INTO A MINIMUM AMOUNT OF ROOF PENETRATIONS, ALL ROOF PENETRATIONS SHALL OCCUR TO THE REAR OF THE MAIN RIDGE.

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

AS AN ALTERNATE TO THE 1/150 RATIO LISTED ABOVE, THE NET FREE CROSS-VENTILATION AREA MAY BE REDUCED TO 1/300 WHEN A CLASS I OR II VAPOR RETARDER IS INSTALLEI ON THE WARM - IN - WINTER SIDE OF THE CEILING.

GENERAL CONTRACTOR SHALL VERIEY THE NET FREE GENERAL CONTRACTOR SHALL VERIET THE NET FREE VENTILATION OF THE VENT PRODUCT SELECTED BY OWNER, VERIET WITH MANIFACTURER OF HIGH AND LON VENTS TO BE USED FOR MINIMAM CALCULATED VENTS REGUIRED. THE REGUIRED VENTILATION SHALL BE MAINTAINED, PROVIDE INSULATION STOP SUCH THAT INSULATION DOES NOT OBSTRUCT FREE AIR MOVEMENT AS REGUIRED BY THE BUILDING OFFICIAL.

ALL OVER LAP FRAMER ROOF AREAS SHALL HAVE OPENINGS BETWEEN THE ADJACENT ATTICS IN THE ROOF REMAINED BY THE GUILDING OFFICIAL.

SHEATHING (AS ALLOWED BY THE STRUCTURAL ENGINEER)
TO ALLOW PASSAGE AND ATTIC VENTILATION
BETWEEN THE TWO OR ISOLATED ATTIC SPACES SHALL
BE VENTED INDEPENDENTLY TO CBC REQUIREMENTS.

PER DEVELOPER, AT ALL CANTILEVERED FLOORS,
CANTILEVERED ARCHITECTURAL POP-OUTS, AND ANY DOUBLE CANTILLEYERU AKCHIECTURAL POR-CUIS, AND ANT DEPARTIED FROM THE VENTING CALCILLATIONS SHOWN ABOVE, PROVIDE A CONTINUOUS 2" CORROSION RESISTANT SOFFIT VENT AT UNDERSIDE OF FRAMED ELEMENT.

#### (PER SECTION R806.2)

I SQUARE INCH VENT FOR EVERY 300 SQUARE INCHES OF CEILING

\*144 SQ. IN. = 1 SQ. FT.

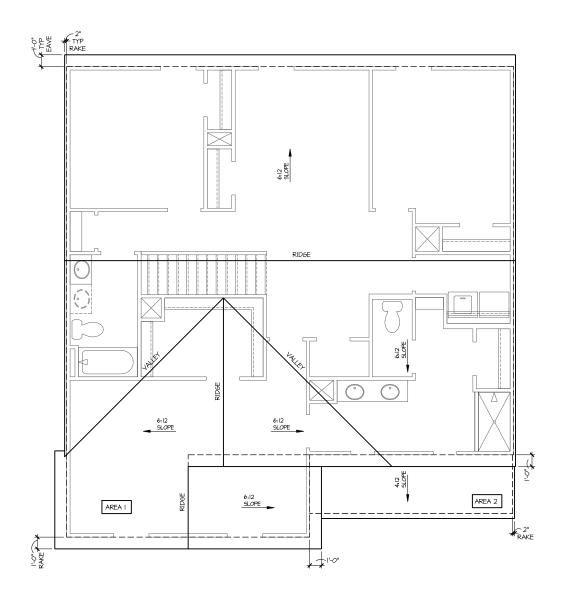
BLDG. CEILING (SF) X 144 = BLDG (SQ. IN.) BLDG. (SQ. IN.) / 300 = SQ. IN. OF VENT REQUIRED

SQ. IN, OF VENT REQUIRED / 2 = 50% AT HIGH & 50% AT LOW.

ROOF AREA 2: = 30 SF 30 SQ. FT. X 144 = 4320 SQ. IN. OF VENT REQ'D 4420 SQ. IN. / 2 = 120 SQ. IN. OF VENT REQ'D 14.40 SQ. IN. / 2 = 120 SQ. IN. OF VENT AT HIGH & 7.20 SQ. IN. OF VENT AT LOW REQUIRED.

AT SINGLE FAMILY DETACHED PLANS: PREFINISHED VENTED SOFFIT AT EAVE PER MANUFACTURER. (VERIFY FIRE SEPARATION DISTANCE FOR SOFFIT PROTECTION PER NCRC SECTION R302.1.1 AND TABLE R302.1)

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



Roof Plan 'E' SCALE: I/4"=I'-0" AT 22"X34" LAYOUT I/8"=I'-0" AT II"XIT" LAYOUT NO: DATE: REVISION: 01.04.23 PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION



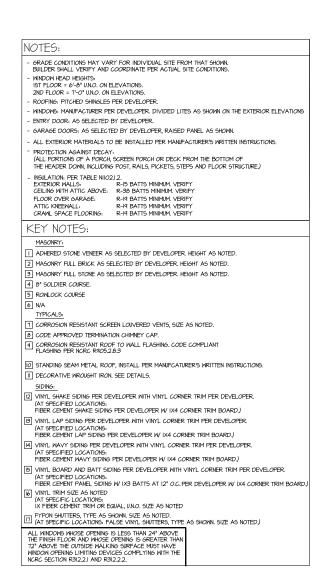
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'GALEN' - LH **ROOF PLAN** 

PRINT DATE: March 30, 2023

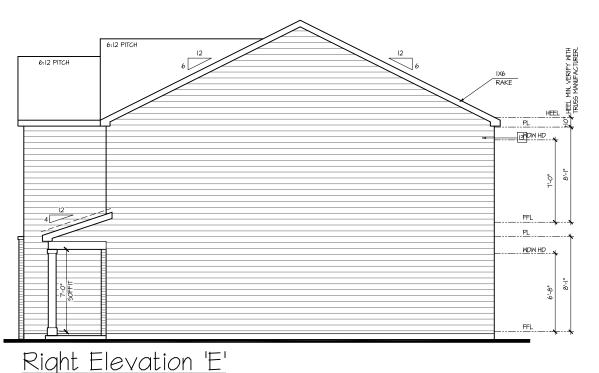
'4EGF-E'

1.1 E



SCALE: 174"=1'-0" AT 22"X34" LAYOUT 1/8"=1'-0" AT 11"X17" LAYOUT







NO: DATE: REVISION:

O1.04.23

PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

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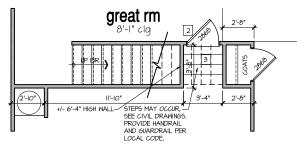


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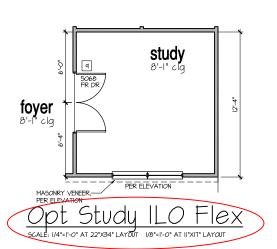
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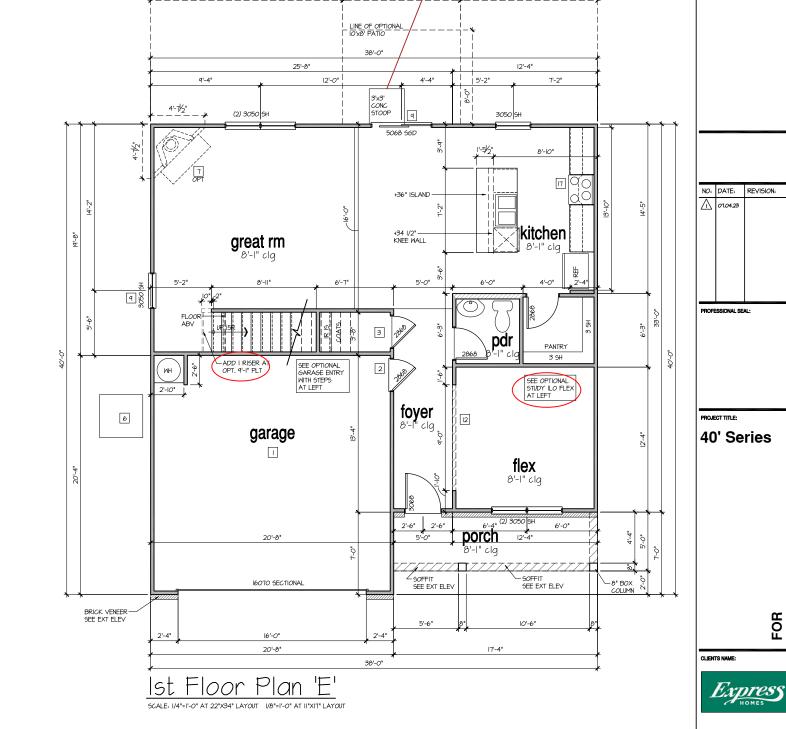
'GALEN' - LH EXTERIOR ELEVATIONS '4EGF-E'

PRINT DATE: March 30, 2023



# Garage Entry Steps Option SCALE: I/4"=I'-0" AT 22"X34" LAYOUT I/8"=I'-0" AT II"XIT" LAYOUT





10'x12' Wood Deck

9'-1" STAIR NOTE:

(USE 14" T.JI WITH 3/4" PLYWOOD SUBFLOOR) IS TREADS AT IO" EACH VERIFY I6 RISERS AT +/- 7.73" = 123 3/4" TOTAL RISE VERIFY

### 8'-I" STAIR NOTE:

(USE 14" T.JI WITH 3/4" PLYWOOD SUBFLOOR 14 TREADS AT 10" EACH VERIFY 15 RISERS AT +/- 7.45" = III 3/4" TOTAL RISE VERIFY

- FOR ADDITIONAL NOTES SEE GENERAL NOTES ON TITLE SHEET AND DETAILS.
- ININDOM IEAD HEIGHTS.
15'F FLOOR = 6'-6' U.N.O. ON ELEVATIONS.
2ND FLOOR = 7'-0' U.N.O. ON ELEVATIONS.

ALL DIMENSIONS TO WINDOWS AND DOORS ARE TO CENTERLINE.

## WALL LEGEND:

FULL HEIGHT 2X4 WOOD STUD PARTITION

BRICK / STONE VENEER

LOW GYPSUM BOARD WALL HEIGHT AND STUD SIZE AS NOTED

FULL HEIGHT 2X6 WOOD STUD PARTITION

STUD WALL BELOW HEIGHT AND STUD SIZE AS NOTED 

DRYWALL OPENING. HEIGHT AS NOTED ON PLAN.

#### KEY NOTES FOR NORTH CAROLINA:

FIRE PROTECTION:

HOUSE TO GARAGE FIRE SEPARATION, GARAGE/HOUSE SEPARATION AT VERTICAL SURFACES SHALL BE PROTECTED WITH ONE (I) LAYER I/2" GYPSUM BOARD, (PER NCRC TABLE R302.6.) GARAGE/HOUSE SEPARATION AT HORIZONTIAL SURFACES SHALL BE PROTECTED WITH ONE (I) LAYER 5/8" TYPE 'X' GYPSUM BOARD. (PER NCRC TABLE R302.6.)

- HOUSE TO GARAGE DOOR SEPARATION. PROVIDE 1-3/8" SOLID CORE DOOR OR APPROVED 20 MINUTE RATED DOOR. (PER NORG SECTION R302.5.I.)
- 3 BENEATH STAIRS AND LANDINGS, 1/2" GYPSIM BOARD ON WALLS AND CEILING OF ENCLOSED ACCESSIBLE AREAS, (PER NCRC SECTION 87802.1) IN CONCEALED SPACES BETWEEN STAIR STRINGERS PROVIDE FIREBLOCKING PER R302.II

FAU 8'X8' PLATFORM, VERIFY WITH TRUSS MANUFACTURER.

(6'-6" MIN. CLEAR HEIGHT TO HORIZONTAL MEMBERS,
2"X6" OVER 2"X4" BOTTOM CHORD. OF TRUSS, VERIFY W TRUSSES.)

- 6 A/C CONDENSER PAD. (VERIFY)
- PRE-FABRICATED METAL FIREPLACE.
  INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ATTIC ACCESS LARGE ENOUGH TO REMOVE LARGEST PIECE
  OF EQUIPMENT BUT NOT LESS THAN 30"x22". FIRE RATED
  ACCESS AS NOTED, (FER NCR: 80"1).
  ATTIC ACCESS LADDER, VERIFY LOCATION AND SIZE WITH TRUSSES.
  (25 1/2" X 54" SIZE). FOR GARAGE TO ATTIC SEPARATION PER
  NCRC 30:25.] EXCEPTION.

  TOTAL ACCESS LARGE ENOUGH TO ATTIC SEPARATION PER
  NCRC 30:25.] EXCEPTION.

  TOTAL ACCESS LARGE ENOUGH TO ATTIC SEPARATION PER
  NCRC 30:25.] EXCEPTION.
- TYPICALS:

  TEMPERED SAFETY GLASS, (PER NCRC SECTION 308.4) PLYWOOD SHELF ABOVE WITH DRYWALL FINISH OVER. HEIGHT AS NOTED.
- II HALF WALL, HEIGHT AS NOTED.

12 INTERIOR SOFFITS: FFL =  $\theta$ '-I" U.N.O. SFL = 7'- $\theta$ " U.N.O.

- BATHS: 3 SHOWER, TEMPERED GLASS ENCLOSURE.
- 14 TUB-SHOWER COMBO. TEMPERED GLASS ENCLOSURE.
- 15 CERAMIC TILE SHOWER AND FLOOR, TEMPERED GLASS ENCLOSURE.
- 6 ACRYLIC TUB W CERAMIC PLATFORM
- KITCHEN: TI 30" SLIDE-IN ELECTRICAL RANGE W HOOD AND MICRO ABV. VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 30" GAS COOKTOP AND HOOD.

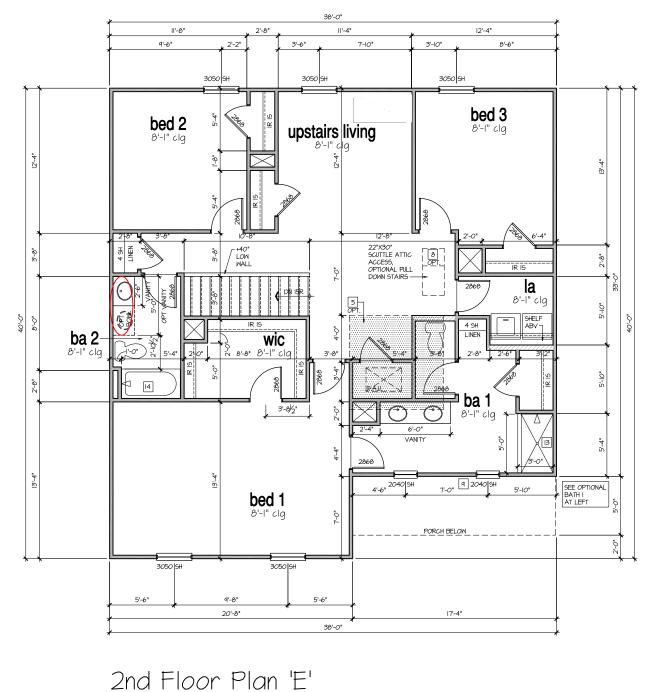
  VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS. 19 ELECTRIC OVEN WITH MICROWAVE OVEN.

PROJECT NO: GMD17049

FOR CONSTRUCTION

'GALEN' - LH 1st FLOOR PLAN '4EGF-E'

PRINT DATE: March 30, 2023



9'-1" STAIR NOTE:

(USE 14" T.J.I WITH 3/4" PLYNOOD SUBFLOOR) 15 TREADS AT 10" EACH VERIFY 16 RISERS AT +/- 7.73" = 123 3/4" TOTAL RISE VERIFY

## 8'-I" STAIR NOTE:

(ISE I4" T.JI WITH 3/4" PLYWOOD SUBFLOOR, I4 TREADS AT IO" EACH VERIEY I5 RISERS AT +/- 7.45" = III 3/4" TOTAL RISE VERIEY

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

MINDOW HEAD HEIGHTS: IST FLOOR = 6'-8" U.N.O. ON ELEVATIONS. 2ND FLOOR = 7'-0" U.N.O. ON ELEVATIONS.

ALL DIMENSIONS TO WINDOWS AND DOORS ARE TO CENTERLINE.

## WALL LEGEND:

FULL HEIGHT 2X4 WOOD STUD PARTITION

FULL HEIGHT 2X6 WOOD STUD PARTITION

BRICK / STONE VENEER

STUD WALL BELOW HEIGHT AND STUD SIZE AS NOTED 

DRYWALL OPENING. HEIGHT AS NOTED ON PLAN. LOW GYPSUM BOARD WALL HEIGHT AND STUD SIZE AS NOTED

# KEY NOTES FOR NORTH CAROLINA:

FIRE PROTECTION:

HOUSE TO GARAGE FIRE SEPARATION, GARAGE/HOUSE SEPARATION AT VERTICAL SURFACES SHALL BE PROTECTED WITH ONE (I) LAYER I/2" GYPSUM BOARD, (PER NCRC TABLE R302.6.) GARAGE/HOUSE SEPARATION AT HORIZONTIAL SURFACES SHALL BE PROTECTED WITH ONE (I) LAYER 5/8" TYPE 'X' GYPSUM BOARD. (PER NCRC TABLE R302.6.)

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3 BENEATH STAIRS AND LANDINGS, 1/2" GYPSIM BOARD ON WALLS AND CEILING OF ENCLOSED ACCESSIBLE AREAS, (PER NCRC SECTION 87802.1) IN CONCEALED SPACES BETWEEN STAIR STRINGERS PROVIDE FIREBLOCKING PER R302.II MEP'S

FAU 8'X8' PLATFORM, VERIFY WITH TRUSS MANUFACTURER.

(6'-6" MIN. CLEAR HEIGHT TO HORIZONTAL MEMBERS,
2"X6" OVER 2"X4" BOTTOM CHORD. OF TRUSS, VERIFY W TRUSSES.)

6 A/C CONDENSER PAD. (VERIFY)

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

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

ATTIC ACCESS LARGE ENOUGH TO REMOVE LARGEST PIECE
OF EQUIPMENT BUT NOT LESS THAN 30"x22". FIRE RATED
ACCESS AS NOTED, (FER NCR: 80"1).
ATTIC ACCESS LADDER, VERIFY LOCATION AND SIZE WITH TRUSSES.
(25 1/2" X 54" SIZE). FOR GARAGE TO ATTIC SEPARATION PER
NCRC 30:25.] EXCEPTION.

TOTAL ACCESS LARGE ENOUGH TO ATTIC SEPARATION PER
NCRC 30:25.] EXCEPTION.

TOTAL ACCESS LARGE ENOUGH TO ATTIC SEPARATION PER
NCRC 30:25.] EXCEPTION.

TYPICALS:

TEMPERED SAFETY GLASS. (PER NORC SECTION 308.4)

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

II HALF WALL, HEIGHT AS NOTED.

12 INTERIOR SOFFITS: FFL =  $\theta$ '-I" U.N.O. SFL = 7'- $\theta$ " U.N.O. BATHS:

3 SHOWER, TEMPERED GLASS ENCLOSURE.

14 TUB-SHOWER COMBO. TEMPERED GLASS ENCLOSURE.

15 CERAMIC TILE SHOWER AND FLOOR, TEMPERED GLASS ENCLOSURE.

6 ACRYLIC TUB W CERAMIC PLATFORM KITCHEN:

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

B 30" GAS COOKTOP AND HOOD.

VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

19 ELECTRIC OVEN WITH MICROWAVE OVEN.

NO: DATE: REVISION: 01.04.23 PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

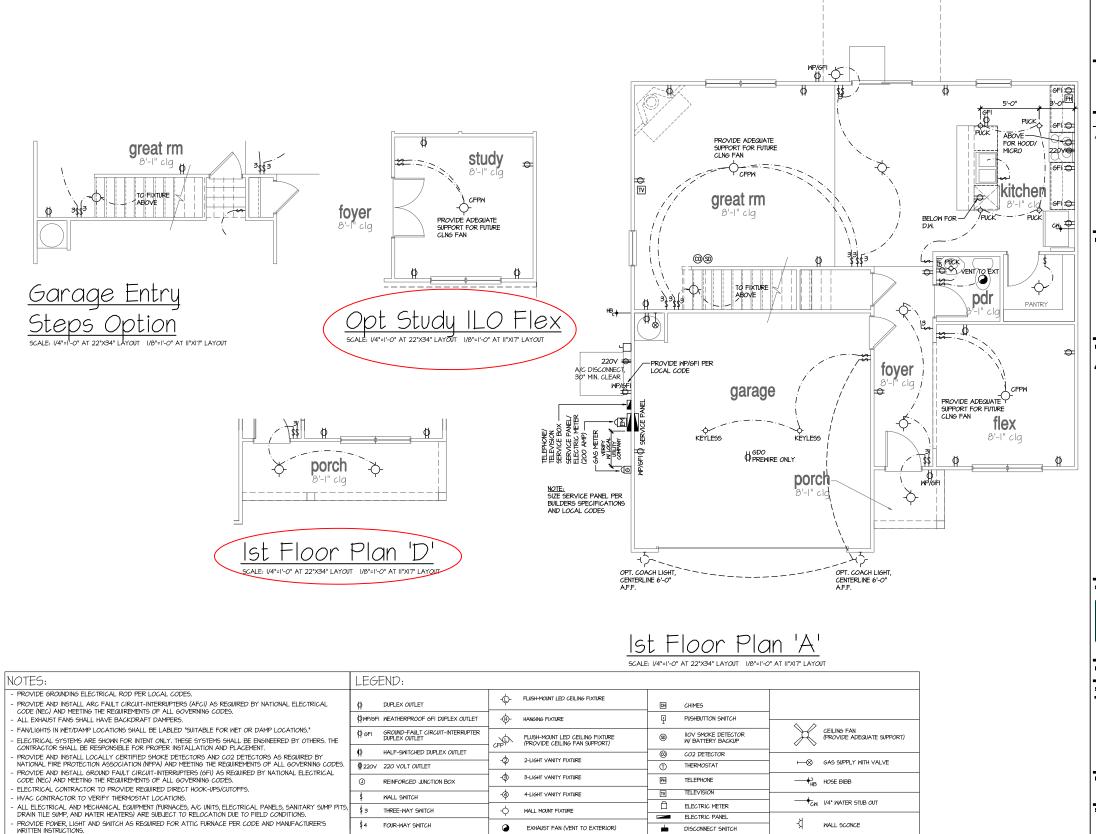


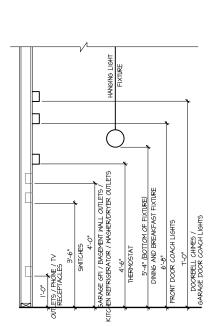
PROJECT NO: GMD17049

'GALEN' - LH 2nd FLOOR

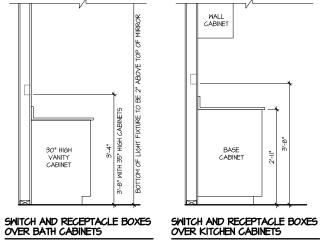
PLAN '4EGF-E'

PRINT DATE: March 30, 2023





#### STANDARD ELECTRICAL BOX HEIGHTS



PROVIDE POWER, LIGHT AND SMITCH AS REQUIRED FOR ATTIC FURNACE PER CODE AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

NO: DATE:

REVISION:

PROJECT TITLE:

40' Series

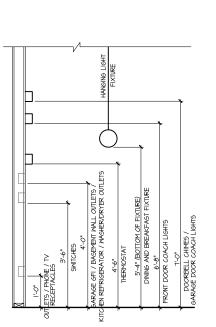
FOR CONSTRUCTION



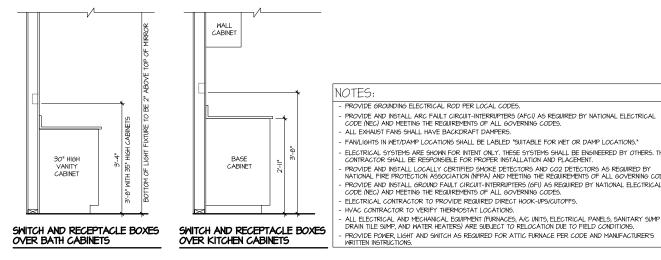
PROJECT NO: GMD17049

'GALEN' - LH 1st FLOOR **UTILITY PLAN** 

PRINT DATE: March 30, 2023



#### STANDARD ELECTRICAL BOX HEIGHTS



PROVIDE ADEQUATE SUPPORT FOR FUTURE CLING FAN  PROVIDE ADEQUATE SUPPORT FOR FUTURE CLING FAN  GFPN  PROVIDE ADEQUATE SUPPORT FOR FUTURE CLING FAN  CFPN  SUPPORT FOR FUTURE CLING FAN  COPPIN  SUPPORT FOR FUTURE CLING FAN  COPPIN  SUPPORT FOR FUTURE CLING FAN  COPPIN  SUPPORT FOR FUTURE CLING FAN  CLING FAN  SUPPORT FOR FUTURE CLING FAN  CLING FAN  CLING FAN  SUPPORT FOR FUTURE CLING FAN  SUPPOR
PROVIDE ADEQUATE SUPPORT FOR FUTURE CLING FAN  PROVIDE 2ND GFT  AND LIGHT AT OFTIONAL BONL  PROVIDE ADEQUATE SUPPORT FOR FUTURE CLING FAN  BELOW  BELOW  BY OFTIONAL BONL  PROVIDE ADEQUATE SUPPORT FOR FUTURE CLING FAN  BY OFTIONAL BONL  BY OFTIONA
SUPPORT FOR FITURE CLING FAN  BYPOVIDE 2ND GFT AND LIGHT AT OFTIONAL BOWL  PROVIDE 2ND GFT AND LIGHT AT OFTIONAL BOWL  BELOW  BYPOVIDE 2ND GFT AND LIGHT AT OFTIONAL BOWL  BELOW
PROVIDE 2ND 6FI AND LIGHT AT PROVIDE BOOK  BELOW  B
PROVIDE 2ND 6FI AND LIGHT AT OPTIONAL BOYL  PROVIDE 2ND 6FI AND LIGHT AT OPTIONAL BOYL  PROVIDE 2ND 6FI AND LIGHT AT OPTIONAL BOYL  BELOW  BEL
PROVIDE 2ND 6FI AND LIGHT AT OPTIONAL BONL  BLOW  BLOW
PROVIDE 2ND 6FI AND LIGHT AT PROVIDE BOYL  BELOW  WIC  8'- " clg  8'- " clg
PROVIDE 2ND 6FI AND LIGHT AT OPTIONAL BOYL  BY-I" clg  WIC  8'-I" clg  AND LIGHT AT OPTIONAL BOYL  BY-I'' clg
PROVIDE 2ND 6FI AND LIGHT AT OPTIONAL BONL  PROVIDE 2ND 6FI  AND LIGHT AT OPTIONAL BONL  PROVIDE 2ND 6FI  AND LIGHT AT OPTIONAL BONL  PROVIDE 2ND 6FI  AND LIGHT AT OPTIONAL BONL  BILLOW  BIL
PROVIDE 2ND 6FI AND LIGHT AT OPTIONAL BONL  PROVIDE 2ND 6FI  AND LIGHT AT OPTIONAL BONL  PROVIDE 2ND 6FI  AND LIGHT AT OPTIONAL BONL  PROVIDE 2ND 6FI  AND LIGHT AT OPTIONAL BONL  BILLOW  BIL
PROVIDE 2ND 6FI NAME LIGHT AT OPTIONAL BONL PROVIDE 2ND 6FI NAME L
AND LIGHT AT OPTIONAL BONL  BOLL  B'-I" clg  WIC  B'-I" clg  B'-I" clg
ba 2 Wic 4
ba 2 8'-I" clg Wic 8'-I" clg
8'-1" clg
SEN TORRES
\$
Da 1
<b>ba 1</b>
PROVIDE ADEQUATE SUPPORT FOR FUTURE
CLING FAN
CEPW
bed 1
8'-1" c1g
MH
<del> </del>
ф <u></u>

bed 3

2nd Floor Plan 'A'

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

	LEGI	END:						
L	ф	DUPLEX OUTLET	ф	FLUSH-MOUNT LED CEILING FIXTURE	CH	CHIMES		
	фир/6FI	WEATHERPROOF GFI DUPLEX OUTLET	ф-	HANGING FIXTURE	9	PUSHBUTTON SWITCH		
. THE	∯ 6FI	GROUND-FAULT CIRCUIT-INTERRUPTER DUPLEX OUTLET		FLUSH-MOUNT LED CEILING FIXTURE (PROVIDE CEILING FAN SUPPORT)	99	IIOV SMOKE DETECTOR W BATTERY BACKUP	$\times$	CEILING FAN (PROVIDE ADEQUATE SUPPORT)
	Ф	HALF-SWITCHED DUPLEX OUTLET			@	CO2 DETECTOR		
ODES.	<b>₽</b> 220∨	220 VOLT OUTLET	-\$	2-LIGHT VANITY FIXTURE	1	THERMOSTAT	⊢⊗	GAS SUPPLY WITH VALVE
AL	0	REINFORCED JUNCTION BOX	\$	3-LIGHT VANITY FIXTURE	PH	TELEPHONE	— <b>+</b> <sub>HB</sub>	HOSE BIBB
	\$	WALL SMITCH	-\$	4-LIGHT VANITY FIXTURE	ΤV	TELEVISION		
MP PITS,	\$3	THREE-WAY SWITCH	- <b>O</b>	WALL MOUNT FIXTURE		ELECTRIC METER	TCM	I/4" WATER STUB OUT
5		FOR MAY CHITCH	T .			ELECTRIC PANEL	K.	WALL SCONCE
<i></i>	\$4	FOUR-WAY SMITCH	•	EXHAUST FAN (VENT TO EXTERIOR)	_	DISCONNECT SWITCH	Я	MALL SCONCE

NO: DATE: REVISION:

O10423

PROFESSIONAL SEAL:

PROJECT TITLE:

40' Series

FOR CONSTRUCTION

CLIENTS NAM



PROJECT NO: GMD17049

SHEET TITLE:
'GALEN' - LH

2nd FLOOR UTILITY PLAN

March 30, 2023

EET NO:

7

. 10 PSF

. 130 MPH

Charlotte, NC 28273 GMD Design Group 102 Fountain Brook Circle, Suite C

These drawings are to be coordinated with the architectural, mechanical, plumbing, Inese aratumgs are to be coordinated with the architectural, mechanical, pulmoing electrical, and civil dratumings. 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, INC. before construction begins.

#### PLAN ABBREVIATIONS

Cary, NC 27511

AB	ANCHOR BOLT	PT	PRESSURE TREATED
AFF	ABOVE FINISHED FLOOR	R9	ROOF SUPPORT
CJ	CEILING JOIST	5C	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 4 Testing, INC. (SUMMIT) prior to the initial design. Therefore, truss and joist directions were assumed prior to the initial design, inerelore, truss and joist directions were assumed based on the information provided by <u>DR Horton</u>, Inc., 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.

#### REVISION LIST:

SHEET LIST:

Sheet No.

SI.Øm

S1.0s

51.0c

S1.0b

52.0

53.Ø

S4.Ø

S5.Ø

Revision No.	Date	Project No.	Description
1	10.02.23	TØ928	Added Crawl Space Foundation

Description

Cover Sheet, Specifications, Revisions

Monolithic Slab Foundatio

Stem Illall Foundation

Crawl Space Foundation

Basement Foundation

Basement Plan

First Floor Plan

Second Floor Plan

Roof Framing Plan

#### DR HORTON PROJECT SIGN-OFF:

Manager	Signature
Operations	
Operations System	
Operations Product Development	

SUMMIT





DATE: 10/102/2023 PROJECT 9 528,76928

CHECKED BY: M6B

REFER TO COVER SHEET FOR A

GENERAL STRUCTURAL NOTES:

I. 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 unitien permission of SUPMIT Engineering, Laboratory & Testing, INC. (SUPMIT) or the SER. For the purposes of these construction documents the SER and SUPMIT 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.

Anu 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 SWMMIT.

Verification of assumed field conditions is not the responsibilit 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.

FOUNDATIONS:

I. 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.

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 Any fill shall be placed under the direction or recommendation of a licensed professional engineer.

87. Basic Structural Sustem (check one) 

☐ Inverted Pendulum

The resulting soil shall be compacted to a minimum of 95%

5.1. Conventional 2x

6.1. Exposure \_\_\_\_\_ 62. Importance Factor

63. Wind Base Shear 6.3.1. VX =
6.32.Vy =
7. Component and Cladding (in PSF)

8.4. Seismic Use Group . 85. Spectral Response Acceleration 8.5.1. Sms = %g 8.5.2. Sm1 = %g 8.6. Seismic Base Shear 8.6.2.Vy =

6. Ultimate Design Wind Speed (3 sec. gust) ......

MEAN ROOF UP TO 30' 30'!"-35' 35'!"-40' 40'!"-45' ZONE 1 16.7,-18.0 17.5,-18.9 182,-19.6 18.7,-2.02 ZONE 2 | 6-1,-210 | 175,-221 | 82,-22.9 | 8-1,-235 | ZONE 3 | 6-1,-210 | 175,-221 | 182,-22.9 | 181,-235 | ZONE 4 | 182,-19.0 | 192,-20.0 | 19,9,-20.1 | 20.4,-21.3

ZONE 5 182,-24,0 19.2,-25.2 19.9,-26.1 20.4,-26.9

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

Wind 🖂

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 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 D1.1. Electrodes for shop and field welding shall be class ETOXX. All welding shall be performed by a certified welder per the above

standards.

NCNCIE:
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 42% of

target values as follows:
3.l. Footings: 5%
3.2. Exterior Glabs: 5%

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 urreported 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 nforcing steel may not extend through a control joint.

Reinforcing steel may extend through a saw cut joint. 10. 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:

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 reinforcemen

minimization of filormesh 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 equirements, and shall meet or exceed the current industry

Steel reinforcing bars shall be new billet steel conforming to ASTM A615, 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:

I. 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) 12 or Spruce-Pine-Fir (SFP) 12. 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 AUPA standard C-2

Nalls shall be common wire nalls 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 or 2x4 SYP \*2 o 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 study 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. Multi-ply beams shall have each ply attached with (3) lØd nails (

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.

JOOD 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 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 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 Blood 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 fo

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 code references or construction details.

#### WOOD STRUCTURAL PANELS:

Fabrication and placement of structural wood sheathing shall be in accordance with the APA Design/Construction Guide
"Residential and Commercial," and all other applicable APA standards.

 $\ensuremath{\mathsf{All}}$  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 an Alaced sheathing exposite to 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 ringshark nall at 6°o/c at panel edges and at 2°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, like suitable edge support by use of T4G plywood 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.
Sheathing shall have a 1/8" gap at panel ends and edges as

recommended in accordance with the APA.

STRUCTURAL 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 mark of the AFA.

mark or 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

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



9CALE: 22x34 |/4"∗1"-Ø" |bx∏ |/8"∗1"-Ø"

- 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 Fc = 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.
  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. FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE
- ELEMENTS. PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF
- MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN SECTION RADA! OF THE 2018 NORTH CAROLINA RESIDENTIAL
- ILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO
- OUTLET AS REQUIRED BY SITE CONDITIONS.
  PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- 10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK VENEERS.
  CRAIL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS.
- 8. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2016 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.

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

- 10. ALL PIERS TO BE 16 "X16" MASONRY AND ALL PILASTERS TO BE 8"X16"
- MASONRY, TYPICAL (UNO)
  WALL FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN.
- 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, INC. MUST BE PROVIDED THE OPPORTUNITY REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.
- 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 HOLDOWNS ADDITIONAL INFORMATION R602.10.1, R602.10.8(1) AND R602.10.8(2) OF THE 2015 IRC

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.

REINFORCE GARAGE PORTAL WALLS PER FIGURE R602.10.9 OF THE 2015 IRC.

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.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY DR HORTON
COMPLETED REVISED ON 03/30/23, IT IS THE RESPONSIBILITY OF
THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY 4 TESTING, INC. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, INC. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

CRAWL SPACE FOUNDATION PLAN

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

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

DECK FLOOR JOISTS SHALL BE SPACED AT MAX. 121 ON CENTER WHEN DECKING INSTALLED DIAGONALLY







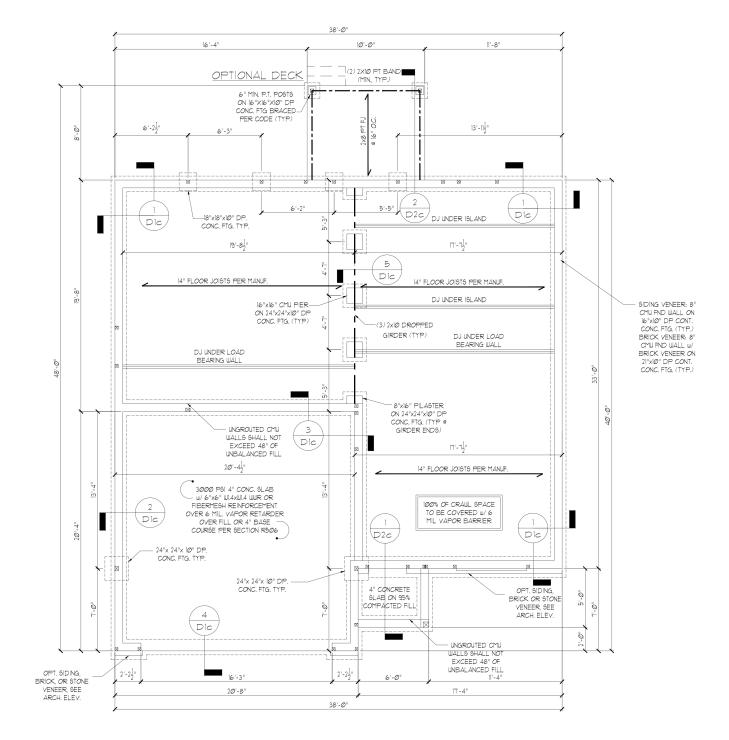
CLIENT: DR Horton, Inc. 8001 Arrouridge Bivo Charlotte, NC 28213

FOUT Space



D**raung** Date: 10/02/2023 8CALE: 22x34 1/4"+1"-0" lk:|1 1/8"+1"-0" PROJECT 9 528,76928 CHECKED BY: MSB

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS



CRAWL SPACE FOUNDATION PLAN - ELEVATION A, B, C

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL
- STRUCTURAL CONCRETE TO BE ES & 3000 PSI PREPARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318.
  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.
  FOOTING 61ZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF
- 2000 PS: CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFING THE SUITABILITY OF THE SITE SOLE CONDITIONS AT THE TIME OF CONSTRUCTION. FOOTINGS AND PIERS SHALL BE CENTERED INDER THEIR RESPECTIVE ELEMENTS. PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF
- MAXIMM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN SECTION R404.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE
- BULLDING CODE

  PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.

  PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO
  OUTLET AS REQUIRED BY SITE CONDITIONS.

  PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH
- CAROLINA RESIDENTIAL BUILDING CODE.
- 10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK
- CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIG. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R40316. 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.
- ABBREVIATIONS:

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

- 10. ALL PIERS TO BE 16"x16" MASONRY AND ALL PILASTERS TO BE 8"x16"
- MASONRY, TYPICAL. (UNO)
  WALL FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN.
- 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, INC. MUST BE PROVIDED THE OPPORTUNITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.
- 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 HOLDOWNS ADDITIONAL INFORMATION R602,10,1, R602,10,8(1) AND R602,10,8(2) OF THE 2015 IRC

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 | PER TABLE R405.1

REINFORCE GARAGE PORTAL WALLS PER FIGURE R602.10.9 OF THE 2015 IRC.

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.

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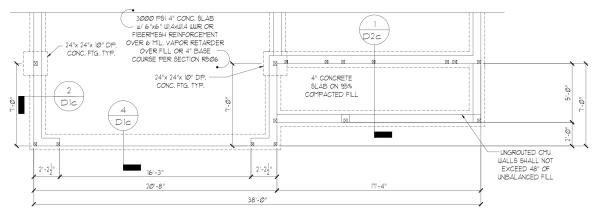
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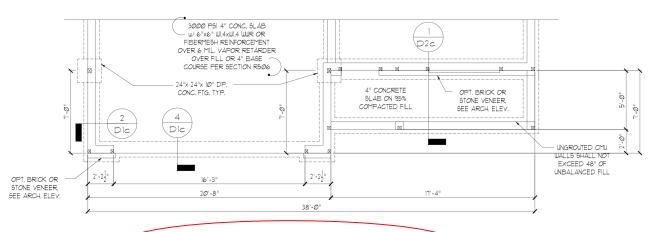
STRUCTURAL ANALYSIS BASED ON 2018 NCRC

CRAWL SPACE FOUNDATION PLAN

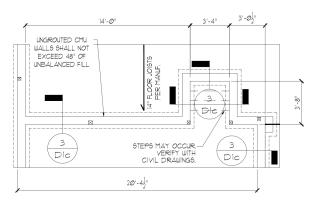
SCALE: 1/4"=1'-0" ON 22"x34" OR 1/8"=1'-0" ON 11"x17"



CRAWL SPACE FOUNDATION PLAN - ELEVATION D



CRAWL SPACE FOUNDATION PLAN - ELEVATION E & F



OPT. GARAGE ENTRY STEPS





CLIENT: DR Horton, Inc. 8001 Arrouridge Bivo Charlotte, NC 28213

TO I Space



DRAWNG DATE: 10/02/2023 8CALE: 22x34 1/4"+1"-0" lk:|1 1/8"+1"-0" PROJECT 9 528,76928 CHECKED BY: MSB

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

REQUIRED BRACED WALL PANEL CONNECTIONS					
			REQUIRED CONNECTION		
METHOD	METHOD MATERIAL MIN. THICKNESS		@ 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 8 12" O.C.	
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R6/02.10.6.4	PER FIGURE R602.10.6.4	
"OR EQUIVALENT PER TABLE R70235					

#### GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
  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

- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL PORCES ENCOUNTERED DURING ERECTION.

  PROPERTIES USED IN THE DESIGN ARE AS FOLLOWS:

  MICROLLAM (LVL.): F<sub>B</sub> = 2600 PSI, F<sub>V</sub> = 285 PSI, E = 12500 PSI

  PARALLAM (PSI.): F<sub>B</sub> = 2900 PSI, F<sub>V</sub> = 290 PSI, E = 12500 PSI

  ALL BUODD MEMBERS SHALL BE "2 STP OR "2 SFF UND.

  ALL BEAM'S SHALL BE SUPPORTED UTH A (2) 244 "2 STP OR "3 SFF UND.

  ALL BEAM'S SHALL BE SUPPORTED UTH A (2) 244 "2 STP OR "4 "2 STP OR "4 "2 STP OR "5 SFF UND.

  ALL BEAM'S SHALL BE SUPPORTED UTH A (2) 244 "2 STP OR A (2) 244 "2 SPF STUD COLUMN AT EACH END UNLESS NOTED OTHERWISE.

  ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A6IS AND SHALL HAVE A MINIMUM COVER OF 3".

  FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION RAD316. MINIMUM ("2") DIA BOLTS SPACED AT 6"-0" ON CENTER WITH A "MINIMUM ENTERDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE IZ" FROM THE END OF EACH PLATE SECTION, MINIMUM ("2) ANCHOR BOLTS PER PLATE SECTION, MINIMUM ("2) ANCHOR BOLTS PER PLATE SECTION, MINIMUM ("2) ANCHOR BOLTS PER PLATE SECTION, ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE FLATE.
- CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN PERPENDICULAR TO RAFTERS.
- 10. FLITCH BEAMS, 4-PLY LYLS AND 3-PLY SIDE LOADED LYLS SHALL BE BOLTED TOGETHER WITH 1/2" DIA THRU BOLTS SPACED AT 24" O.C. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/D31, 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 7 OR (1) FLAT 2x4
  SFF 12, DROPPED. FOR NON-LOAD BEARING HEADERS EXCEEDING 8'-0" IN WIDTH
  AND/OR WITH MORE THAN 2'-0" OF CRIPPLE WALL ABOVE, SHALL BE (2) FLAT 2x4 SYP #2 OR (2) FLAT 2x4 SPF #2 DROPPED. (UNLESS NOTED OTHERWISE)

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

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

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

INSTALL ANY REQUIRED HOLDOWNS PER SECTION R602 IOS AND FIGURES R602 IO 65 R602 IO 1 R602.10.8(1) AND R602.10.8(2) OF THE 2015 IRC

NOTE: MEMBER NOTED AS PRESSURE TREATED MAY BE FRAMED WITH NON-PRESSURE TREATED LUMBER PROVIDED THE ENTIRETY OF THE MEMBER IS WRAPPED TO PREVENT MOISTURE INTRUSION.

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

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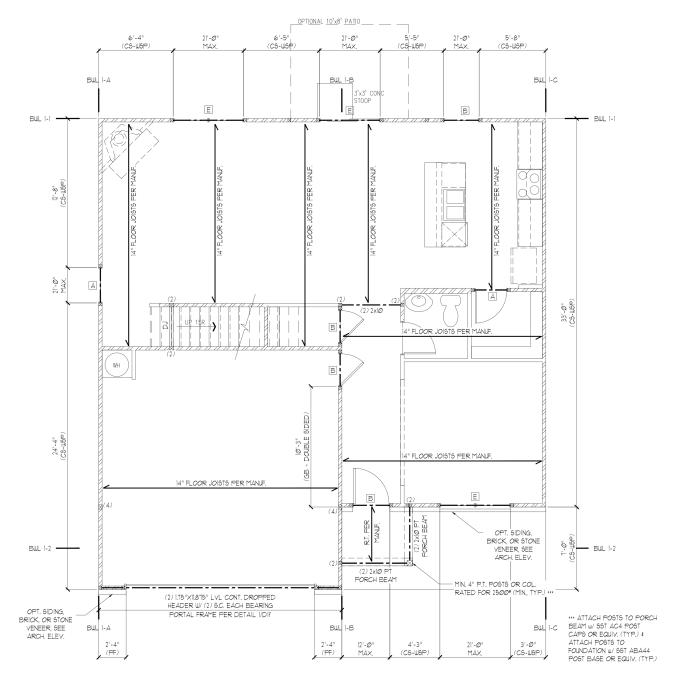
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN

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

FIRST FL	OOR BRAC	ING (FT)				
CONTIN	CONTINUOUS SHEATHING METHOD					
	REQUIRED	PROVIDED				
BWL 1-1	13.9	23.8				
BWL 1-2	13.9	14.2				
BWL 1-A	9.9	37.Ø				
BWL 1-B	9,9	12.1				
BWL 1-C	8.6	33.0				



FIRST FLOOR FRAMING PLAN - ELEVATION A, B, C

HEADER SCHEDULE				
TAG	SIZE	JACKS (EACH END		
А	(2) 2x6	(1)		
В	(2) 2x8	(2)		
С	(2) 2x1Ø	(2)		
D	(2) 2x12	(2)		
E	(2) 9-1/4" LSL/LVL	(3)		
F	(3) 2x6	(1)		
G	(3)2x8	(2)		
H	(3) 2xlØ	(2)		
	(3) 2xl2	(2)		

HEADER SIZES SHOWN ON PLANS ARE MINIMUMS, GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION ALL HEADERS TO BE DROPPED UNLESS NOTED OTHERWISE SC NOTED ON PLAN OVERRIDE SC LISTED ABOVE.

LINTEL SCHEDULE				
TAG	SIZE	OPENING SIZE		
	L3x3x1/4"	LESS THAN 6'-0"		
2	L5x3x1/4"	6'-0" TO 10'-0"		
3	L5x3-1/2"x5/16"	GREATER THAN 10'-0"		
4	L5x3-1/2"x5/16" ROLLED OR EQUIV.	ALL ARCHED OPENINGS		

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

ALL HEADERS WHERE BRICK IS USED, TO BE: () (UNO)

#### WALL STUD SCHEDULE

IST & 2ND FLOOR LOAD BEARING STUDS: 2x4 STUDS @ 16" O.C. OR 2x6 STUDS @ 24" O.C. |ST FLOOR LOAD BEARING STUDS W/ WALK-UP ATTIC: 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. BASEMENT LOAD BEARING STUDS: 2x4 STUDS @ 12" OC. OR 2x6 STUDS @ 16" OC.
NON-LOAD BEARING STUDS (ALL FLOORS):
2x4 STUDS @ 24" OC. TWO 510RY WALLS:
2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. BALLOON
FRAMED w/ CROSS BRACING @ 6'-Ø" O.C. VERTICALLY

KING STUD R	EQUIREMENTS
OPENING WIDTH	KINGS (EACH END)
LESS THAN 3'-Ø"	(1)
3'-Ø TO 4'-Ø"	(2)
4'-0" TO 8'-0"	(3)
8'-0" TO 12'-0"	(5)
12'-0" TO 16'-0"	(6)
KING STUD REQUIREM	ENTS ABOVE DO NO

#### BRACED WALL NOTES:

- 1) WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED PER SECTION R602.10 OF THE 2016 NC RESIDENTIAL CODE.
- WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO 130 MPH.
  REFER TO ARCHITECTURAL PLAN FOR DOORWINDOW OPENING

- 5/125.

  BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN
  ACCORDANCE WITH IRC TABLE R602/0/4.

  ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND
  SHALL NOT EXCEPC IN PETET FOR ISOLATED PANEL METHOD AND 12
  FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.105. THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM
- 1/2" GYPSUM BOARD (UNO).
  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. FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND
- THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.

  A BRACED WALL PANEL SHALL BE LOCATED WITHIN 10 FEET OF
- EACH END OF A BRACED WALL LINE.
  THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS
  SHALL NOT EXCEED 20 FEET.
- MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.9 OF THE 2015 IRC.
- BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R60210.8

  13. BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE
- CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.8.2 AND
- FIGURES REØ2108(1)4(2)4(3).

  CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10.11
- PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.106.4 (UNO) 16 ON SCHEMATIC SHADED WALLS INDICATE BRACED WALL PANELS

GB = GYPSUM BOARD | WSP = WOOD STRUCTURAL PANEL 





CLIENT: DR Horton, Inc. 8001 Arrowridge Blv Charlotte, NC 28213

QıÌ 

rst



DATE: 10/02/2023 9CALE: 22x34 |/4"\*|"-@" |bd|| |/8"\*|"-@" PROJECT 9 528,76928 CHECKED BY: MSB

DATE Ø4/26/2

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS



FIRST FLOOR BRACING (FT) CONTINUOUS SHEATHING METHOD

REQUIRED

CONTINUOUS SHEATHING METHOD REQUIRED

BWL 1-1

BWL 1-2

BWL 1-A

BWL 1-B BWL 1-C

POST BASE OR EQUIV. (TYP.)

14" FLOOR JOISTS PER MANUF.

OPT. STUDY ILO FLEX

OPT. SIDING, BRICK, OR STONE VENEER, SEE

(CS-WSP)

PROVIDED

23.8 14.2

37.0

33.0

PROVIDED 23.8 14.2

37.0

33.0

BWL 1-1

BWL 1-2

BWL 1-A

BWL 1-B

BWL 1-C

PORCH DEPENDENT ON ELEV., SEE ARCH.

BWL 1-2

BWL 1-C

FIRST FLOOR BRACING (FT)

CONTINUOUS SHEATHING METHOD

REQUIRED

PROVIDED 23.8

37.0

CLIENT: DR Horton, Inc. 8001 Arrowridge Blvc Charlotte, NC 28213

5 Framí PROJECT: Galen - LH First Floor



DRAWNG DATE: 10/02/2023 8CALE: 22x34 |/4"+i"-@" |kr| |/8"+i"-@" PROJECT 5 528,TØ928

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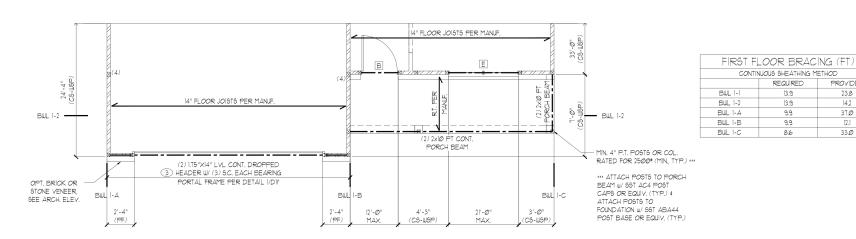
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S3.1

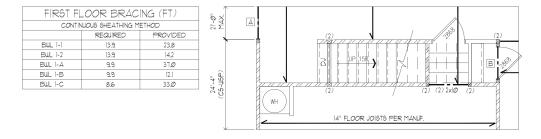
14" FLOOR JOISTS PER MANUF. 14" FLOOR JOISTS PER MANUF. \$ - \$ \$ BWL 1-2 BWL 1-2 (2) 2x10 PT CONT PORCH BEAM MIN. 4" P.T. POSTS OR COL. RATED FOR 2500# (MIN., TYP.) ... (2) 1.75"XII.875" LVL CONT. DROPPED HEADER W/ (2) S.C. EACH BEARING PORTAL FRAME PER DETAIL I/DIF \*\*\* ATTACH POSTS TO PORCH BEAM W/ SST AC4 POST CAPS OR EQUIV. (TYP.) & ATTACH POSTS TO FOUNDATION W/ SST ABA44 BWL 1-A

(CS-WSP)

#### FIRST FLOOR FRAMING PLAN - ELEVATION D



#### FIRST FLOOR FRAMING PLAN - ELEVATION E & F



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OPT. GARAGE ENTRY STEPS

FIRST FLOOR FRAMING PLAN 9CALE: 1/4"=1'-@" ON 22"x34" OR 1/8"=1'-@" ON 11"x17"

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STRUCTURAL MEMBERS ONLY

HEADER SCHEDULE					
TAG	SIZE	JACKS (EACH END)			
А	(2) 2x6	(1)			
В	(2) 2x8	(2)			
С	(2) 2xlØ	(2)			
D	(2) 2xl2	(2)			
E	(2) 9-1/4" LSL/LVL	(3)			
F	(3) 2x6	(1)			
G	(3) 2x8	(2)			
Н	(3) 2xlØ	(2)			
1	(3) 2x12	(2)			

HEADER SIZES SHOWN ON PLANS ARE MINIMUMS, GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION. ALL HEADERS TO BE DROPPED UNLESS NOTED OTHERWISE. SC NOTED ON PLAN OVERRIDE SC LISTED ABOVE.

L	INTEL SCHEDU	LE
TAG	SIZE	OPENING SIZE
	L3x3x1/4"	LESS THAN 6'-0"
2	L5x3x1/4"	6'-0" TO 10'-0"
3	L5x3-1/2"x5/16"	GREATER THAN 10'-0"
4	L5x3-1/2"x5/16" ROLLED OR EQUIV.	ALL ARCHED OPENINGS

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

ALL HEADERS WHERE BRICK IS USED, TO BE: (UNO)

#### WALL STUD SCHEDULE

| INSTALL ANY REQUIRED HOLDOUNS PER SECTION | R602.1036 AND FIGURES R602.1065, R602.10.11, R602.1036(1) AND R602.1036(2) OF THE 2015 IRC

#### NOTE:

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

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

NOTE: MEMBER NOTED AS PRESSURE TREATED MAY BE FRAMED WITH NON-PRESSURE TREATED LUMBER PROVIDED THE ENTIRETY OF THE MEMBER IS WRAPPED TO PREVENT MOISTURE NITUSION.

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

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY DR. HORTON COMPLETED/REVISED ON 29:39:23, IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY 4 TESTING, INC. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY 4 TESTING, INC. 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.

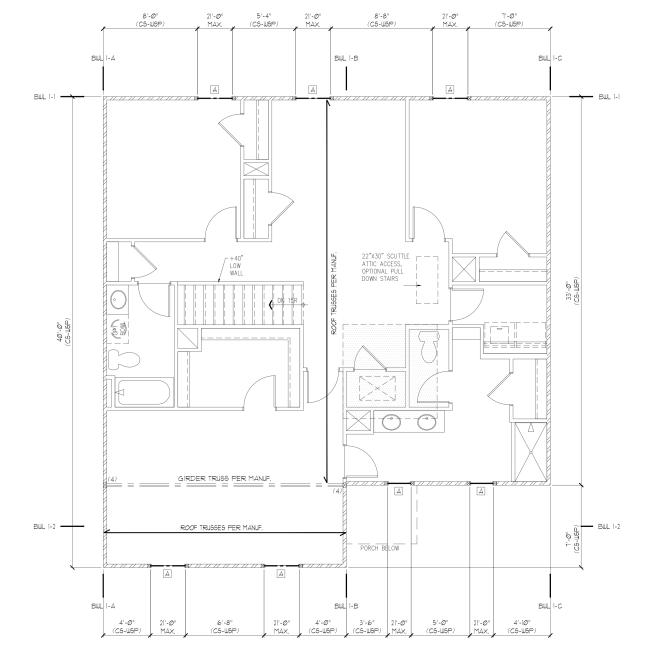
SECOND FLOOR FRAMING PLAN

9CALE: I/4"=1'-0" ON 22"x34" OR I/8"=1'-0" ON II"xIT"

KING STUD RE	EQUIREMENTS
OPENING WIDTH	KINGS (EACH END)
LESS THAN 3'-0"	(1)
3'-Ø TO 4'-Ø"	(2)
4'-0" TO 8'-0"	(3)
8'-0" TO 12'-0"	(5)
12'-0" TO 16'-0"	(6)

KING STUD REQUIREMENTS ABOVE DO NOT APPLY TO PORTAL FRAMED OPENINGS

SECOND FLOOR BRACING (FT)					
CONTINUOUS SHEATHING METHOD					
	REQUIRED	PROVIDED			
BWL 1-1	6.8	29.0			
BWL 1-2	6.8	13.3			
BWL 1-A	4.9	40.0			
BWL 1-B	4.9	7.0			
BWL 1-C	4.3	33.Ø			



SECOND FLOOR FRAMING PLAN - ELEVATION A, B, C





CLIENT: DR Horton, Inc. 8001 Arrowridge Blvd Charlotte, NC 28213

PROJECT. Galen - LH Second Floor Framing Plan



DAILING
DATE: 10/02/2023
SCALE: 22:04 1/4\*\*F-0\*
INTI 10\*\*F-0\*
PROJECT \* 5/2870206
DRAUM BY: EO
CHECKED BY: M6B

ORIGINAL INFORMATION
PROJECT \* DATE
10928 04/26/23

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S4.Ø

HEADER SCHEDULE					
TAG	SIZE	JACKS (EACH END)			
А	(2) 2x6	(1)			
В	(2) 2x8	(2)			
С	(2) 2xlØ	(2)			
D	(2) 2xl2	(2)			
E	(2) 9-1/4" LSL/LVL	(3)			
F	(3) 2x6	(1)			
G	(3)2x8	(2)			
Н	(3) 2xlØ	(2)			
	(3) 2xl2	(2)			

HEADER SIZES SHOWN ON PLANS ARE MINIMUMS, GREATER HEADER SIZES MAY BE USED FOR EASE OF CONSTRUCTION ALL HEADERS TO BE DROPPED UNLESS NOTED OTHERWISE. SO NOTED ON PLAN OVERRIDE SC LISTED ABOVE.

LINTEL SCHEDULE				
TAG	SIZE	OPENING SIZE		
1	L3x3x1/4"	LESS THAN 6'-0"		
2	L5x3xl/4"	6'-0" TO 10'-0"		
3	L5x3-1/2"x5/16"	GREATER THAN 10'-0"		
4	L5x3-1/2"x5/16" ROLLED OR EQUIV.	ALL ARCHED OPENINGS		

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

ALL HEADERS WHERE BRICK IS USED, TO BE: (1)(UNO)

#### WALL STUD SCHEDULE

| ST 4 2ND FLOOR LOAD BEARING STUDS:
2x4 STUDS @ 16" O.C. OR 2x6 STUDS @ 24" O.C.
| ST FLOOR LOAD BEARING STUDS @ WALK-UP ATTIC:
2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C.
| BASEMENT LOAD BEARING STUDS:
2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C.
| NON-LOAD BEARING STUDS (ALL FLOORS):
2x4 STUDS @ 24" O.C.
| TUDS STORY WALL IS. TWO STORY WALLS: 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. BALLOON FRAMED W/ CROSS BRACING @ 6'-Ø" O.C. VERTICALLY

INSTALL ANY REQUIRED HOLDOWNS PER SECTION R602.10.8 AND FIGURES R602.10.6.5, R602.10.1, R602.10.8(1) AND R602.10.8(2) OF THE 2015 IRC

#### NOTE:

\_\_ DESIGNATES JOIST SUPPORTED LOAD BEARING WALL ABOVE, PROVIDE BLOCKING UNDER JOIST SUPPORTED LOAD BEARING WALL.

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

NOTE: MEMBER NOTED AS PRESSURE TREATED MAY BE FRAMED WITH NON-PRESSURE TREATED LUMBER PROVIDED THE ENTIRETY OF THE MEMBER IS WRAPPED

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

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# STRUCTURAL MEMBERS ONLY

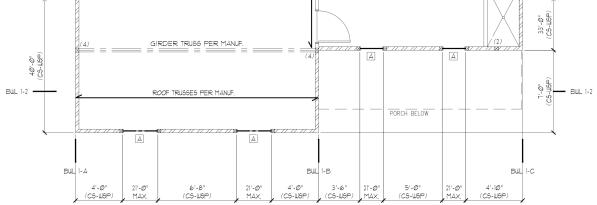
ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS ON THIS DOCUMENT, SEAL DOES NOT INCLUDE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS. ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY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

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

SECOND FLOOR FRAMING PLAN

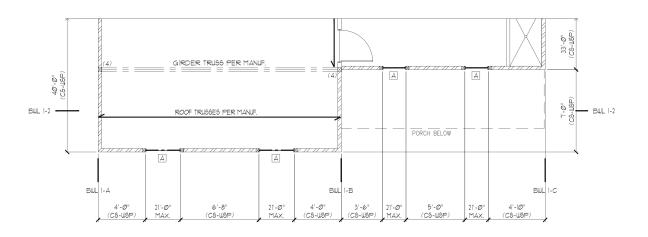
KING STUD RE	EQUIREMENTS
OPENING WIDTH	KINGS (EACH END)
LESS THAN 3'-Ø"	(1)
3'-Ø TO 4'-Ø"	(2)
4'-0" TO 8'-0"	(3)
8'-0" TO 12'-0"	(5)
12'-0" TO 16'-0"	(6)

KING STUD REQUIREMENTS ABOVE DO NOT APPLY TO PORTAL FRAMED OPENINGS



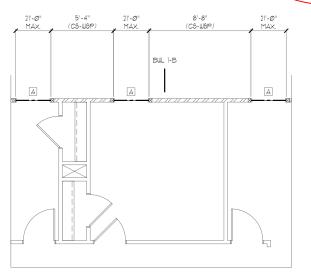
SECOND	FLOOR BRA	CING (FT)		
CONTINUOUS SHEATHING METHOD				
	REQUIRED	PROVIDED		
BWL 1-1	6.8	29.0		
BWL 1-2	6.8	13.3		
BWL 1-A	4.9	40.0		
BWL 1-B	4.9	7.0		
BWL 1-C	4,3	33.0		

#### SECOND FLOOR FRAMING PLAN - ELEVATION D

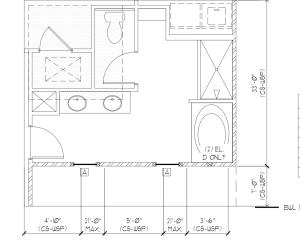


SECOND FLOOR BRACING (FT)					
CONTIN	NUOUS SHEATHING M	ETHOD			
	REQUIRED	PROVIDED			
BWL 1-1	6.8	29.0			
BWL 1-2	6.8	13.3			
BWL 1-A	4.9	40.0			
BWL 1-B	4.9	7.0			
BWL 1-C	4.3	33.0			

## SECOND FLOOR FRAMING PLAN - ELEVATION E & F



CONTINUOUS SHEATHING METHOD			
REQUIRED PROVIDED			
BWL 1-1	6.8	29.0	
BWL 1-2	6.8	13.3	
BWL 1-A	4.9	40.0	
BWL 1-B	4.9	7.0	
BWL 1-C	4.3	33.Ø	



SECOND FLOOR BRACING (FT)				
CONTINUOUS SHEATHING METHOD				
	REQUIRED	PROVIDED		
BWL 1-1	6.8	29.0		
BWL 1-2	6.8	13.3		
BWL 1-A	4.9	40.0		
BWL 1-B	4.9	7.0		
BWL 1-C	4.3	33.Ø		

OPT. BATH 1



<u>U</u>

Ø

Framí

Floor

 $\mathcal{O}$ PROJECT: Galen - LH Secon

SUMMIT

SUMMIT

CLIENT: DR Horton, Inc. 8001 Arrowridge Blvc Charlotte, NC 28213

DRAWNG DATE: 10/02/2023 8CALE: 22x34 |/4"+|"-@" |kiT |/@"+|"-@" PROJECT 5 528,TØ928 DRAWN BY: EO CHECKED BY: MSB

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

OPT. BEDROOM 4

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

VALLEY SET TRUSSES PER MANUF. GIRDER TRUSS PER MANUF. ROOF TRUSSES PER MANUF.

NOTE: 19T PLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP, UNO)

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

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

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

ROOF FRAMING PLAN - ELEVATION E & F





Framing PROJECT: Galen - LH



DRAUNG DATE: 10/02/2023 DRAWN BY: EO CHECKED BY: MSB

ORIGINAL INFORMATION
PROJECT DATE
10928 04/26/23

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

#### DESIGN SPECIFICATIONS:

Construction Tube: Commercial ☐ Residential ☑

Applicable Building Codes:

• 2018 North Carolina Residential Building Code with All Local Amendments

• ASCE 7-10: Minimum Design Loads for Buildings and Other Structures

ıgrı L	Caus:			
٦.	Roof	Live Loads		
	1.1.	Conventional 2x	20	PS
	1.2.	Trus <b>s</b>	20	P9
		12.1. Attic Truss	60	P
2.	Roof	Dead Loads		
	2.1.	Conventional 2x	Ø F	-51
	2.2.	Trus <b>s</b>	20	P9
3.	Snow		15 F	SF
	3.1.	Importance Factor	lØ	
4.		Live Loads		
	4.1.	Typ. Dwelling	40	PS
		Sleeping Areas		
		De <b>c</b> ks		
		Passenger Garage		

5. Floor Dead Loads 5.1. Conventional 2x ...... 52. I-Joist ..... 5.3. Floor Truss

6. Ultimate Wind Speed (3 sec. gust)

6.I. Exposure ... 6.2. Importance Factor... 6.3. Wind Base Shear 63.l. Vx =

632.Vy = 7. Component and Cladding (in PSF)

MEAN ROOF HT.	UP TO 30'	<b>3</b> Ø'1"-35'	35'1"-40'	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,-2 <b>Ø</b> .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

00101111	C	
8.1.	Site Class	D
	Design Category	С
8.3.	Importance Factor	IØ
8.4.	Seismic Use Group	1
8.5.	Spectral Response Acceleration	

85.1. Sms = %g 85.2. Sml = %g 86. Seismic Base Shear 861.Vx =

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 

9. Assumed Soil Bearing Capacity Wind ⊠



STRUCTURAL PLANS PREPARED FOR

# STANDARD DETAILS

PROJECT ADDRESS:

OWNER:

DR Horton Carolinas Division 8001 Arrowridge Blvd Charlotte, NC 28273

ARCHITECT/DESIGNER

GMD Design Group 1845 Satellite Blvd

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:

4	ANCHOR BOLT	PT	PRESSURE TREATED
AFF	ABOVE FINISHED FLOOR	RS	ROOF SUPPORT
3	CEILING JOIST	5C	STUD COLUMN
CLR	CLEAR	SJ	SINGLE JOIST
D	DOUBLE JOIST	SPF	SPRUCE PINE FIR
DSP	DOUBLE STUD POCKET	SST	SIMPSON STRONG-TIE
Ш	EACH END	SYP	SOUTHERN YELLOW PINE
ΕW	EACH WAY	ŤJ	TRIPLE JOIST
NTS	NOT TO SCALE	TSP	TRIPLE STUD POCKET
8	ON CENTER	TYP	TYPICAL
P\$F	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 <u>DR Horton. Inc.</u> 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 **SU**MMIT immediately.

#### SHEET LIST:

REVISION LIST

Date

EIIII

7,12,17

3 2.15.18

4 2.28.18

5 12.19.18

6 2.19.19

8 3.6.19

9 3220

10 3.18.20 102020

13 5.18.21

14 @2.14.23

3.121

Revision

No.

Project No.

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

Added box bay detail (2/D2f). Added deck

stem wall and crawl space foundations

Revised garage door detail, NC only

Revised per Mecklenburg County Comments Revised stem wall deck attachment and i

Corrected dimensions at perimeter footings

Added alternate two-pour detail for slab and

added note for crawl girder above grade

Added 4/D2m - Tall Slab Detail w/ Siding

Added high-wind foundation details

Revised stem wall insulation note

Revised per 2018 NCRC

sheathing on wall sections.

Added tall turndown detail

Added OX-19 Standard Details

Updated OX-IS Standard Details

options with basement. Revised deck options with

# DR HORTON PROJECT SIGN-OFF: Manager Operations Operations Sustem Operations Product Development

# SUMMIT



# PROJECT: Standard I COVE



DATE: 02/4/2023 9CALE: 22x34 1/4"+1"-6" lbt/T 1/8"+1"-6" PROJECT 5 528-06R DRAWN BY: JOEF CHECKED BY: BCP

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

CSI

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 of couments without written permission of SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) or the SER. For th 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.
- 3. The SER is not responsible for construction sequences, methods, or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents, should any non-conformities occur.

  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,
- the stop crasmings for diminishings of the accurations, 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. 8 This structure and all construction shall conform to all
- applicable sections of local building codes.

  3. All structural assemblies are to meet or exceed to requirements of the current local building code.

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.

- 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. Any fill shall be placed under the direction or recommendation
- of a licensed professional engineer.
  The resulting soil shall be compacted to a minimum of 95%
- maximum dry density.

  Excavations of footings shall be lined temporarily with a 6 mil polyethylene membrane If placement of concrete does not occur within 24 hours of excavation.
- No concrete shall be placed against any subgrade containing water, ice, frost, or loose material.

- STRUCTURAL STEEL:

  1. 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.

  3. All steel shall have a minimum yield stress (F<sub>m</sub>) of 36 kg unless
- otherwise noted.

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

- NUMBELIE:
  Concrete shall have a normal weight aggregate and a minimum compressive strength (Fe) 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 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 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-arade 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
- process within 4 to 12 hours after the slab has been rimined.

  Reinforcing steel may not extend through a beau cut joint.

  Reinforcing steel may extend through a sew cut joint.

  10. All welded wire fabric (www.) 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 congrete 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 01% by volume (15 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 Abig grade 60.

  Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 315: "Yanual of Standard Practice for Detailing Concrete Structures"

  Horizontal footing and wall reinforcement shall be continuous and shall have 90" bends, or comer bars with the same size/spacing as the horizontal reinforcement with a class B
- tension splice.
  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.

  10. 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 Spruce-Yellow-Pine (SYP) 2.

    LVL or PSL engineered wood shall have the following minimum
- ign values: 2.1. E = 1,900,000 psi

  - 2.2.F<sub>b</sub> = 26000 psi 2.3.F<sub>v</sub> = 285 psi
- 2.4.Fc = 100 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
- with a varication of the 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 standard B182.1-1981.
- 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 12 = 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.
- 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 lød nall e 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 @ 24" O.C.
- 10. Flitch beams, 4-ply beams and 3-ply side loaded beams shall be bolted together with (2) rous of 1/2" diameter through bolts staggered \$ 16" O.C. unless noted otherwise. Min. edge distance shall be 2" and (2) bolts shall be located a min. 6" from each

#### WOOD TRUSSES:

- 200 TRUSCES.

  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, shall be designed for all required loadings as a neptifical in the local building code, the ASE Standard.
- Ins wood trusses shall be designed for all required loadings as specified in the local building code, the AGCE Standard "Minimum Design Loads for Buildings and Other Structures."

  (ASCE 1-05), 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
- HYVE equipment, ppng, and an area to the trusses shall be designed, fabricated, and erected in accordance with the latest edition of the "National Design Specification for Ilbod Construction." (NDS) and "Design Specification for Metal Plate Connected Ilbod Trusses."
- 4. 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
- the trusses.

  5. Any chords or truss webs shown on these drawings have been shown as a reference only. The final design of the trusses shall

#### EXTERIOR WOOD FRAMED DECKS:

Decks are to be framed in accordance with local building codes and as referenced on the structural plans, either through code references or construction details.

WOOD 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 I 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
- 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 to its supporting framing with (1)-bd CC ringshank nail at 6"0/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 to use of TKG bluecod or lumber tolocking unless support by use of T4G plywood or lumber blocking unless otherwise note. 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 recommended in accordance with the APA.

- STRUCTURAL FIBERBOARD PANELS:

  I. 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
- Sheathing shall have a 1/8" gap at panel ends and edges are



CLIENT: DR Horton Carolina Divis 8001 Arrowridge Blvd. **Charlotte, NC 282**13

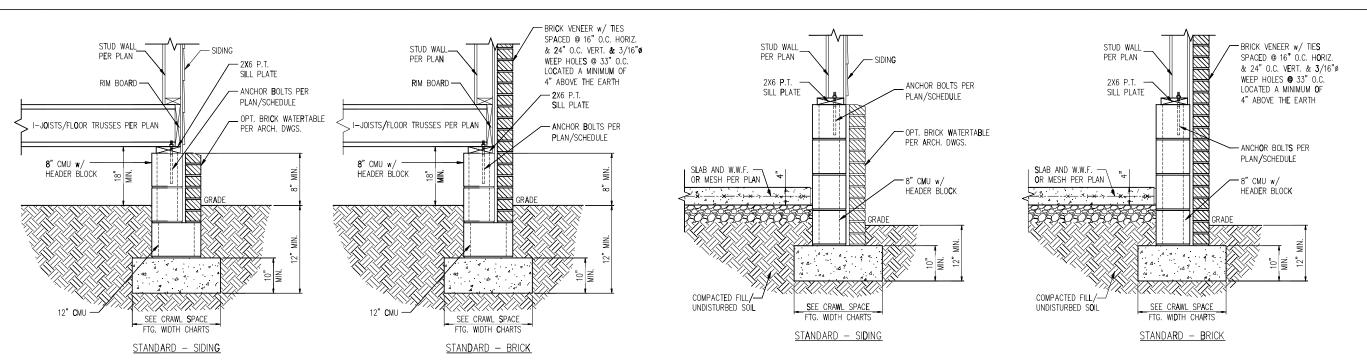
Details Foundation Space 1 PROJECT: Standard D Crawl



RAUNG DATE: Ø2/14/2023 9CALE: 22x34 V4"+1'-6" lbtT V8"+1'-6" PROJECT 4 528-66R DRAWN BY: JOEF CHECKED BY: BCP

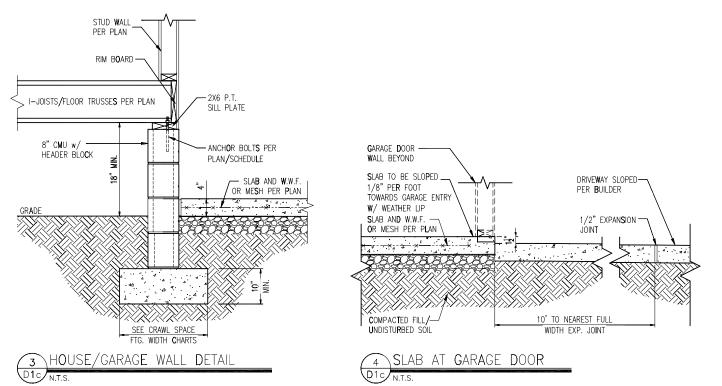
REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

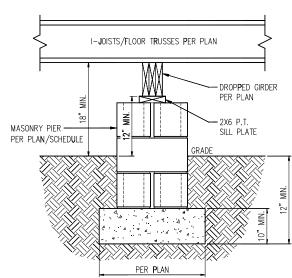
Dlc



# TYP. FOUNDATION WALL DETAIL

TYP. GARAGE CURB DETAIL





TYP. PIER & GI**R**DER DETAIL

#### PIER SIZE AND HEIGHT SCHEDULE

	HOLLOW	SOLID
	UP TO 32" HEIGHT	UP TO 5'-0" HEIGHT
1 <b>2</b> "X16"	UP TO 48" HEIGHT	UP TO 9'-0" HEIGHT
1 <b>6</b> "X16"	UP TO 64" HEIGHT	UP TO 12'-0" HEI <b>G</b> HT*
24"X24"	UP TO 96" HEIGHT	UP TO 12'-0" HEIGHT*
*(4) #4 (	ONT. REBAR w/ #3 S	STIR <b>R</b> UPS @ 16" O.C.
AND 24"	MIN. LAP JOINTS	

#### CRAWL SPACE FOOTING WIDTH

# OF STO <b>R</b> IES	WIDTH BASED	ON S <b>O</b> IL BEARIN	NG CAPACITY
	150 <b>0</b> 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	SLIPPORT		

#### WALL ANCHOR SCHEDULE

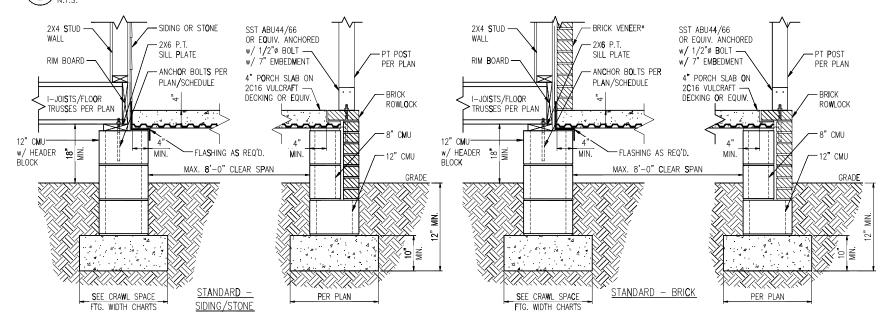
MIN. CONC.	SPACING	INTERI <b>O</b> R	EXTERIOR
EMBED <b>M</b> ENT	EMBEDMENT	WALL	WALL
7"	6'-0"	YES	YES
4"	5'-0"	NO	YES
2-1/4"	6'-0"	YES	NO
7"	6'-0"	YES	YES
	EMBEDMENT 7"	7" 6'-0" 4" 5'-0" 2-1/4" 6'-0"	EMBEDMENT EMBEDMENT WALL 7" 6'-0" YES  4" 5'-0" NO 2-1/4" 6'-0" YES

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.
- PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
   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 N1102.1.2 OF THE 2018 NCRC





10 FRONT PORCH DETAIL W/ SUSPENDED SLAB

#### DECK ATTACHMENT SCHEDULE (ALL STRUCTURES EXCEPT BRICK)

FAST <b>E</b> NERS	MAX. 8'-0" JOIST	MAX. 16'-0" JOIST
	SPAN	SPAN
5/8" GALV. BOLTS w/ NUT & WASHER	(1) <b>@</b> 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 11/2"

#### DECK ATTACHMENT SCHEDULE (BRICK STRUCTURES)

FA:	ST <b>E</b> NERS			MAX. 8'-0"	JOIST	MAX. 16'-0"	JOIST
				SPAN		SPAN	
5/	8" GALV. <b>B</b> OLT:	S w/ NUT &	k WASHER <sup>b</sup>	(1) @ 2'-4"	0.C.	(1) @ 1'-4"	0.C.

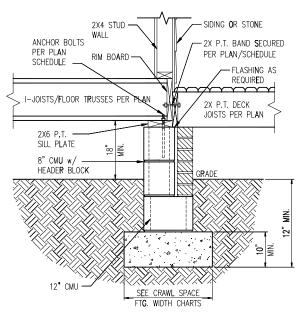
- a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.
- b. MINIMUM EDGE DISTANCE FOR BOLTS IS  $2\frac{1}{2}$ ".

#### CRAWL SPACE FOOTING WIDTH

FOOTING WIDTH FOR BRICK SUPPORT

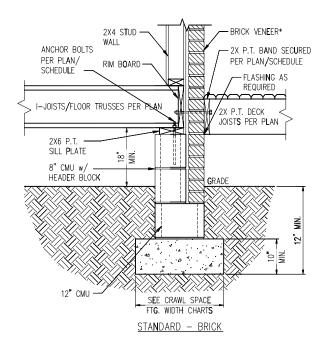
# OF STORIES	WIDTH BASED	ON SOI <b>L</b> BEARIN	ig capa <b>c</b> ity
	1500 PSF	2000 <b>P</b> SF	2500 P <b>\$</b> F
1 STORY - STD.	16"	16"	16"
1 Story – Brick <b>V</b> eneer	21"*	21"*	21"*
2 STORY - STD.	16"	16"	16"
2 Story – Brick <b>V</b> eneer	21"*	21"*	21"*
3 STORY - STD.	23"	18"	18"
3 STORY - BRICK VENEER	32"*	24"*	24"*
*5" BRICK LEDGE HAS BEEN A	ADDED TO THE	CRAWL SPACE	

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



STANDARD - SIDING/STONE

# \DECK ATTACHMENT DETAIL



DECK ATTACHMENT DETAIL W/ BRICK

- NOTES:

  1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
- PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE. . 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 N1102.1.2 OF THE 2018 NCRC

SUMMIT



CLIENT: DR Horton Carolina DIVI 8001 Arrowrldge BIVd. **Charlotte, NC 282**73

Details Foundation Space 1 PROJECT: Standard Di Crawl

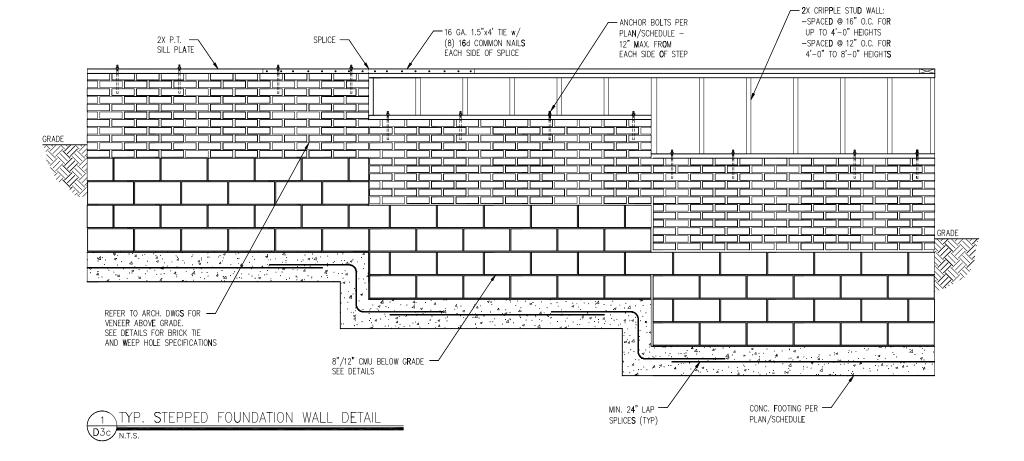


DATE: Ø2/4/2023 9CALE: 22x34 1/4"+1"-6" lbcT 1/8"+1"-6" PROJECT 4 528-66R DRAWN BY: JOEF CHECKED BY: BCP

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D2c





- 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 N1102.1.2 OF THE 2018 NCRC

Details PROJECT. Standard Details (0x-16) Crawl Space Foundation D



DRAUNG DATE: 02/14/2023 8CALE: 22x34 V4"+1"-6" lbtT V8"+1"-6" PROJECT & 528-696R DRAWN BY: JCEF CHECKED SY: BCP

ORIGINAL INFORMATION
PROJECT DATE
1/31/2011

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D3c



CLIENT: DR Horton Carolina Divis 8001 Arrowridge Blvd. **Charlotte, NC 282**13

Details Foundation | Space | PROJECT: Standard D Crawl



RAUNG DATE: Ø2/14/2023 9CALE: 22x34 V4"+1"+0" lbtT V8"+1"+0" PROJECT 1 528-66R DRAWN BY: JOEF CHECKED BY: BCP

NOTES:

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET

SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.

4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR

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 N1102.1.2 OF THE 2018 NCRC

PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.

BRACED WALL PANEL LAYOUT, DIMENSIONS, ATTACHMENT AND

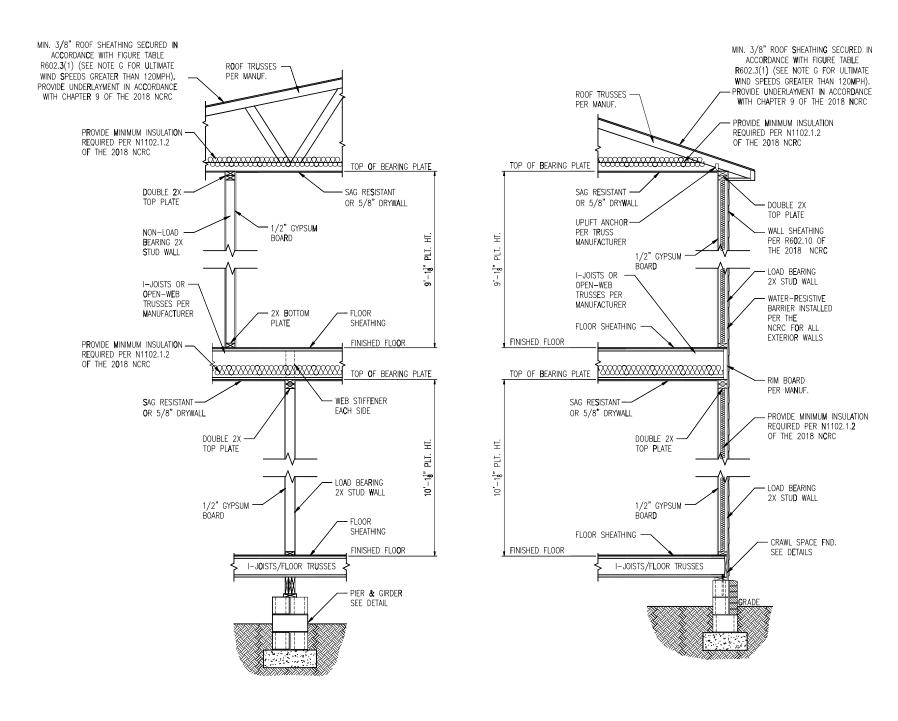
FOR ADDITIONAL INFORMATION.

CONNECTIONS

ORIGINAL INFORMATION
PROJECT DATE
1/31/2011

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

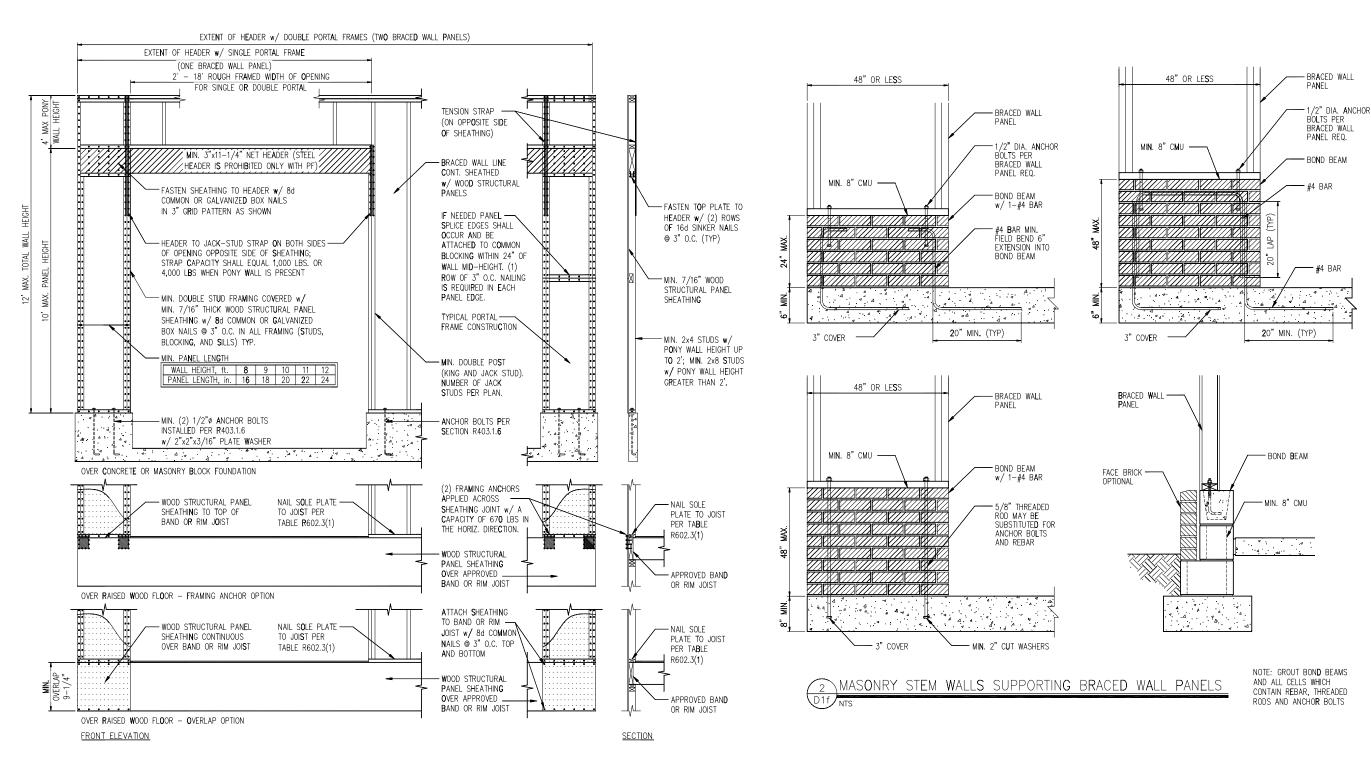
D4c



1 TYP. INTERIOR LOAD BEARING WALL SECTION

TYP. EXTERIOR LOAD BEARING WALL SECTION

-SIMILAR W/ BRICK AND STONE -BRICK TIES SPACED © 16" O.C. HORIZ. & 24" O.C. VERT. -MIN. 3/16"0 WEEP HOLES © 33" O.C.



1 METHOD PF: PORTAL FRAME DETAIL





CLIENT: DR Horton Carolina Division 8001 Arrowridge Bivd. Charlotte, NC 2013

PROJECT: Standard Details (0X-15) Framing Details

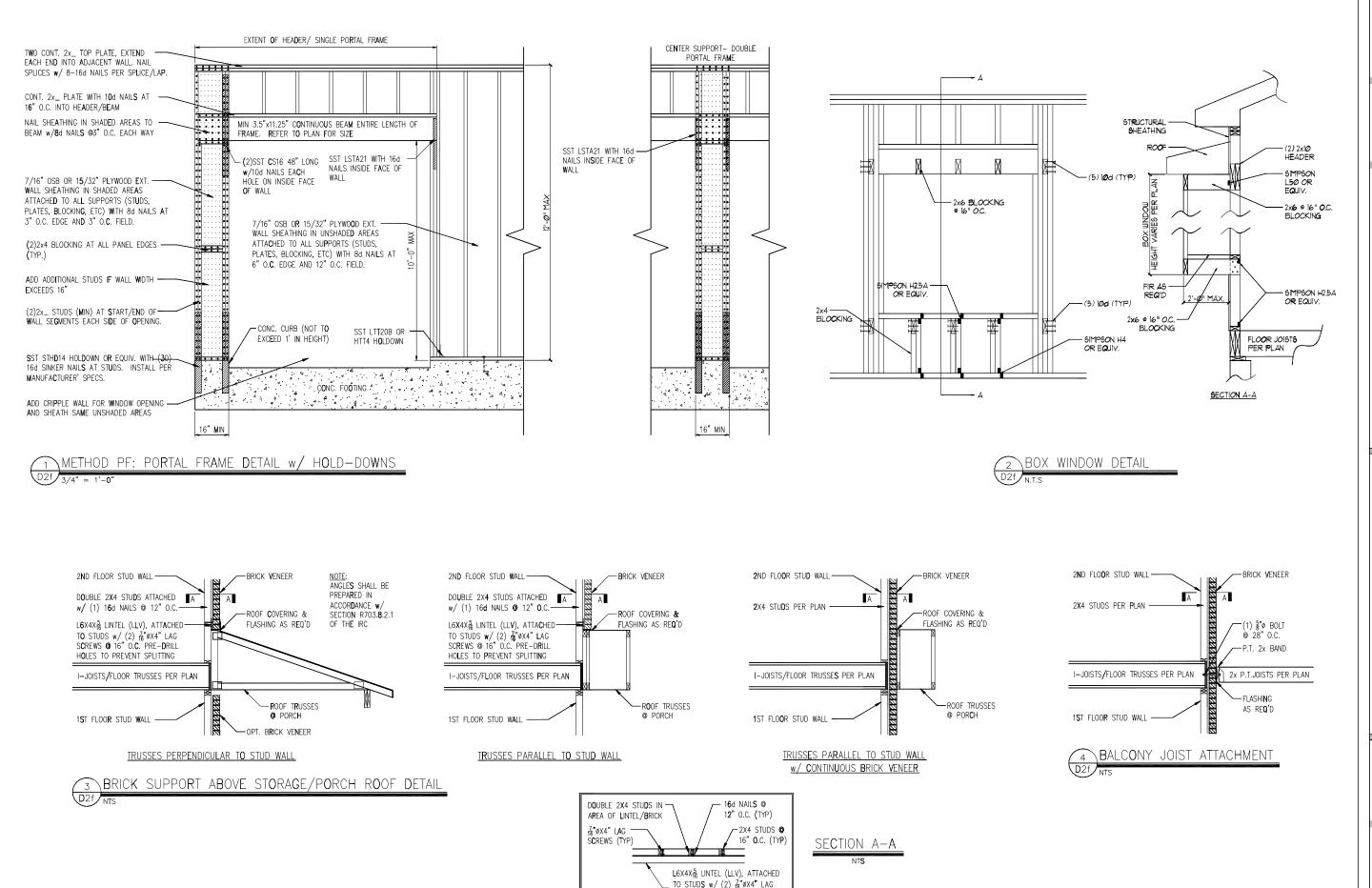


DRAUNG
DATE: 02/M/1023
6CALE: 22/04 V/4\*1\*-0\*
INT V8\*1\*-0\*
PROJECT \* 5/28-06R
DRAUN BY: JCEF
CHECKED BY: BCP

ORIGINAL INFORMATION
PROJECT DATE
1/31/201

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

Dlf



SCREWS @ 16" O.C. PRE-DRILL HOLES TO PREVENT SPLITTING SUMMIT

120 PSHMAC DR. SUIT 108

NAMED IN: 2725 08

OPTIC: 193.300.9993

FAX: 913.300.9993

WWW.SURPT-COMPANIES.COM



arolina Division Age Blvd.

Project. Standard Details (0x-15) Framing Details



DRAUMS

DATE: 69/M0023

SCALE: 22254 V4\*11-69\*

PROJECT \*\ 508-06R

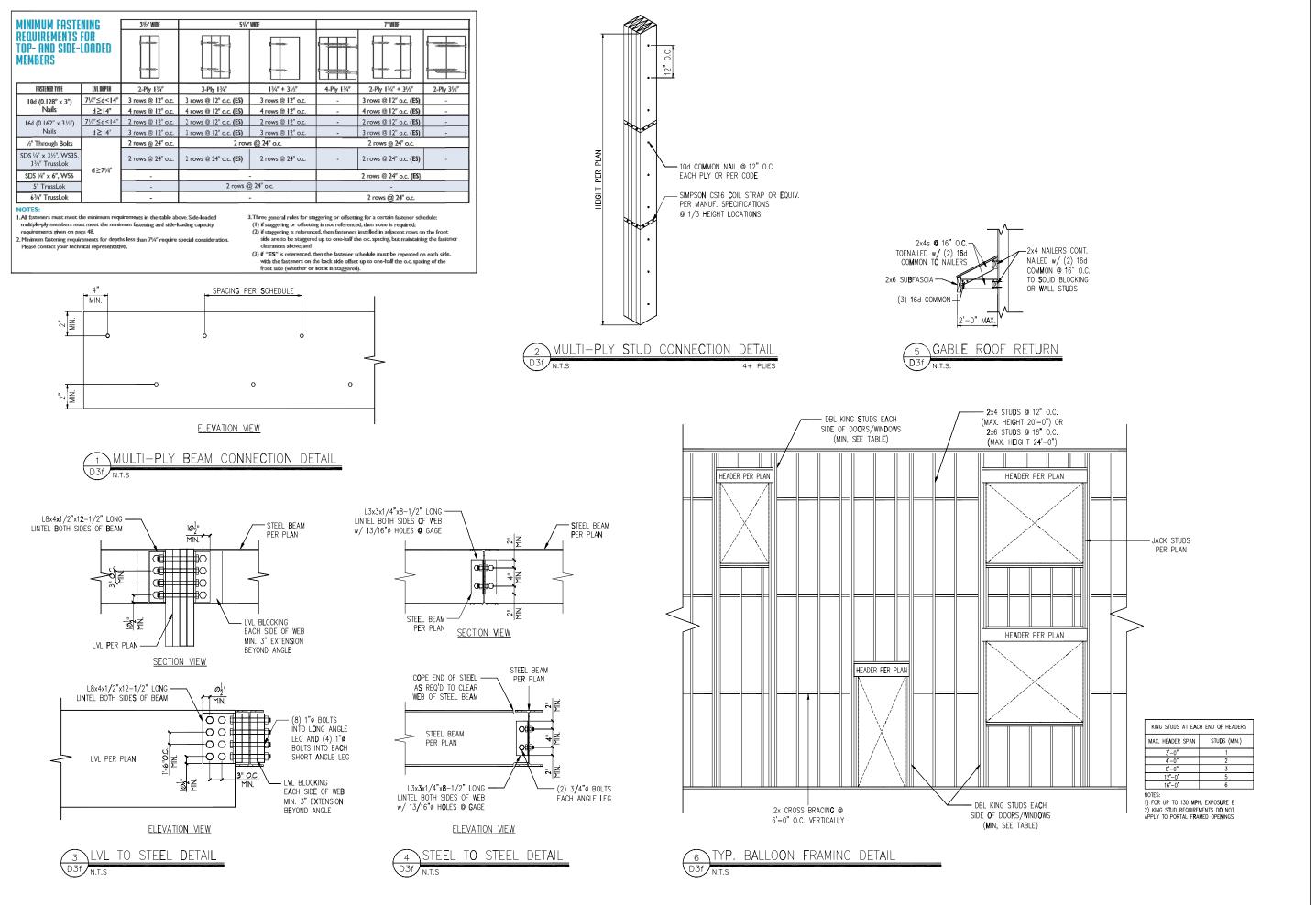
DRAUM BY: JCEF

CHECKED BY: BCP

ORIGINAL INFORMATION
PROJECT \* DATE
1/31/2011

REFER TO **C**OVER SHEET FOR A COMPLETE LIST OF REVISIONS

D2f







na Division Bivd.

CLIENT: DR Horton Carolin

PROJECT:
9tandard Details (0x-16)
Framing Details



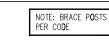
DRAUNG
DATE: 02/4/02/3
SCALE: 22/04 1/4\*\*I\*-9\*
FROJECT 4 5/2\*-96/R
DRAUN BY: JCEF
CHECKED BY: BCP

ORIGINAL INFORMATION
PROJECT DATE

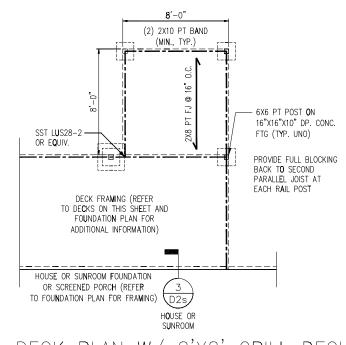
V3V2Ø11

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS ET

D3f

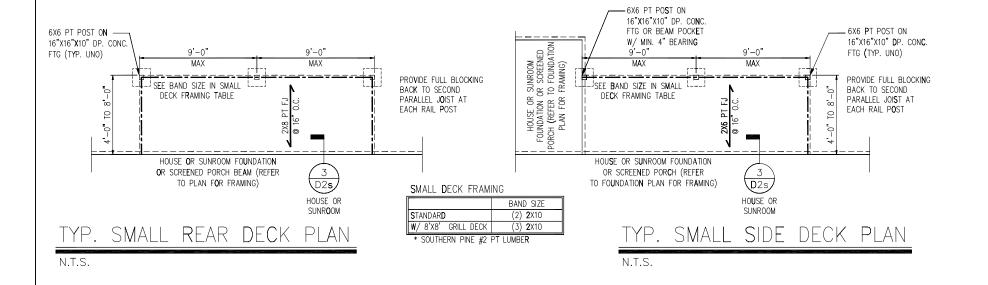


SÜMMIT



TYP. DECK PLAN W/ 8'X8' GRILL DECK

N.T.S.



- SEE INT**E**RMEDIATE

FRAMING TABLE

MAX

DECK FRAMING TABLE

R SUNROOM
OR SCREENED
TO FOUNDATION
R FRAMING)

HOUSE OR FOUNDATION O ORCH (REFER T

INTERMIEDIATE FOOTING

16"x16"x10

24"x24"x10"

6X6 PT POST ON-

HOUSE OR S FOUNDATION OF ORCH (REFER TO PLAN FOR F

BAND SIZE\* INTERMIEDIATE FOOTING

16**"x**16"x10

(2) 2X10

(3) 2X10

16"X16"X10" DP. CQNC.

FTG OR BEAM POCKET

W/ MIN. 4" BEARING

SEE BAND SIZE IN

HOUSE OR SUNROOM FOUNDATION

OR SCREENED PORCH (REFER

TO FOUNDATION PLAN FOR FRAMING)

N.T.S.

SEE BAND SIZE IN

DECK FRAMING TABLE

HOUSE OR SUNROOM FOUNDATION

OR SCREENED PORCH (REFER TO FOUNDATION PLAN FOR FRAMING)

N.T.S.

FOOTING IN LARGE DECK

MAX

D2s/

HOUSE OR

SUNR**O**OM

- SEE INTERMEDIATE

FOOTING IN DECK

D2s

HOUSE OR

SUNROOM

SIDE DECK PLAN

FRAMING TABLE

\_**!** 

LARGE SIDE DECK PLAN

- 6X6 PT POST ON

16"X16"X10" DP. CONC. FTG (TYP. UNO)

PROVIDE FULL BLOCKING BACK TO SECOND

- 6X6 PT POST ON

FTG (TYP. UNO)

BACK TO SECOND PARALLEL JOIST AT

EACH RAIL POST

16"X16"X10" **D**P. CON**C**.

PROVIDE FULL BLOCKI**N**G

PARALLEL JOIST AT

EACH RAIL POST

- SEE INTERMEDIATE

FRAMING TABLE

MAX

D2s

HOUSE OR

SUNROOM

SEE INTERMEDIATE

FOOTING IN DECK

MAX

HOUSE OR

FRAMING TABLE

PROVIDE FULL BLOCKING BACK TO SECOND

LARGE DECK FRAMING

W/ 8'X8' GRILL DECK

PROVIDE FULL BLOCKING

BACK TO SECOND

EACH RAIL POST

DECK FRAMING

W/ 8'X8' GRILL DECK

\* SOUTHERN PINE #2 PT LUMBER

STANDARD

PARALLEL JOIST AT

PARALLEL JOIST AT

EACH RAIL POST

MAX

(MIN., TYP.)

2) **2**X12 PT BAND

HOUSE OR SUNROOM FOUNDATION

OR SCREENED PORCH (REFER

TO FOUNDATION PLAN FOR FRAMING)

LARGE REAR DECK PLAN

SEE BAND SIZE IN

DECK FRAMING TABLE

HOUSE OR SUNROOM FOUNDATION

OR SCREENED PORCH BEAM (REFER

TO PLAN FOR FRAMING)

REAR DECK PLAN

FTG (TYP. UNO)

N.T.S.

6X6 PT POST ON

FTG (TYP. UNO)

N.T.S.

16"X16"X10" DP. CONC.

FOOTING IN LARGE DECK



- $\underline{\text{NOTES:}}$  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
- 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 N1102.1.2 OF THE IRC

Details Wall PROJECT: Standard I Stem STRUCTURAL MEMBERS ONLY

Details

Foundation

CLIENT: DR Hort 8001 A

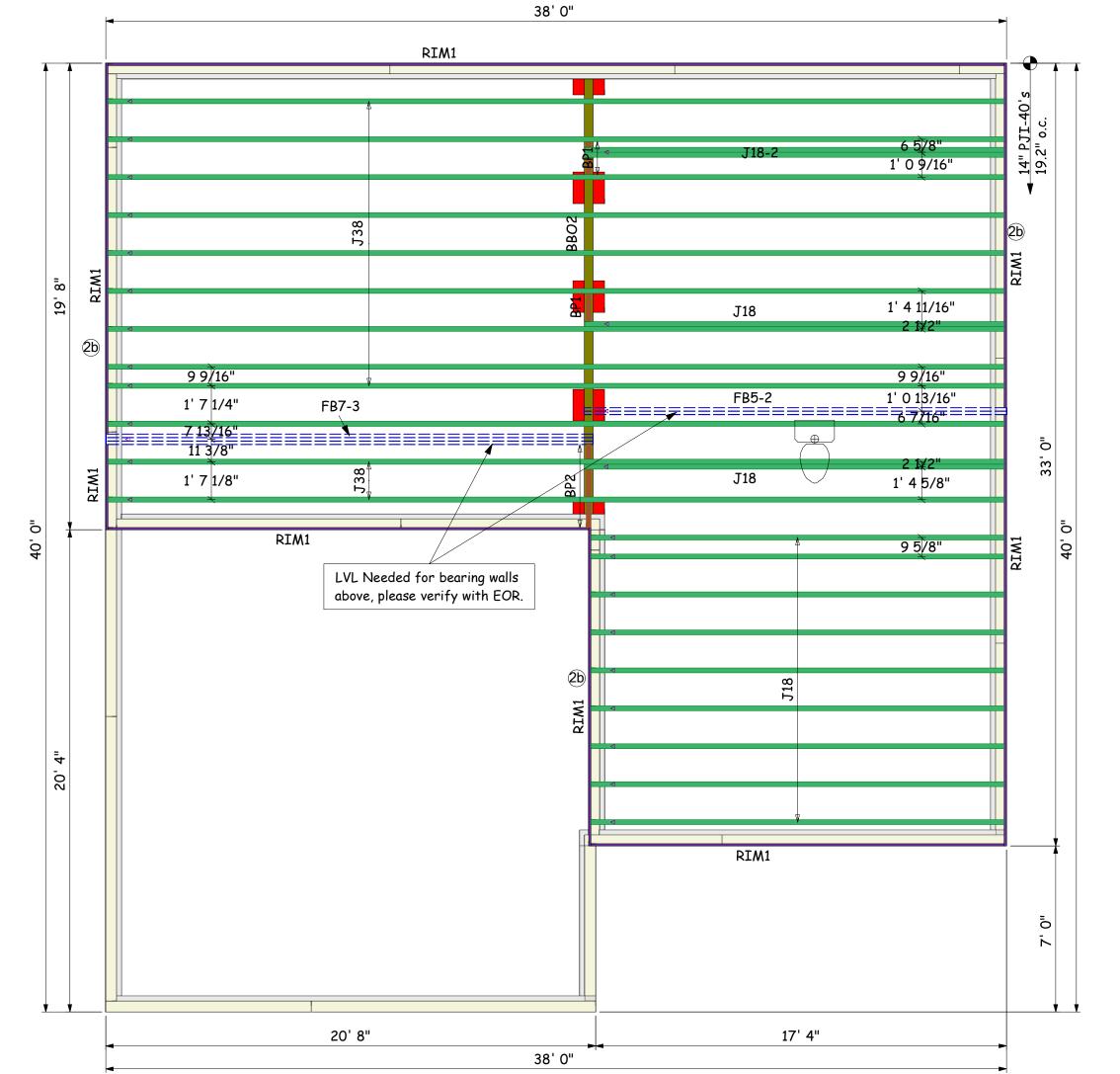
DATE: 3/2/2010 8CALE: 22±34 1/4"∗1"-**6**" Ibd1 1/8"∗1"-**6**" PROJECT & 528-Ø6R

DRAWN BY: LAG CHECKED BY: WAJ ORIGINAL INFORMATION
PROJECT \* DATE
1/31/2011

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D3s

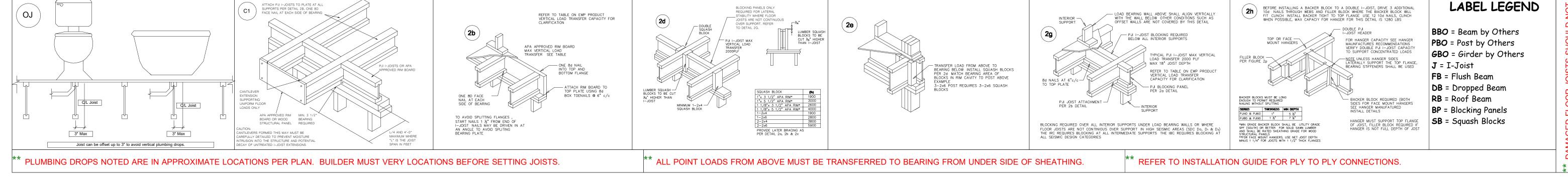




		Produ	ıcts			
PlotID	Length	Product			Plies	Net Qty
J38	38' 0"	14" PJI-40			1	12
J18	18' 0"	14" PJI-40			1	11
J18-2	18' 0"	14" PJI-40			2	2
FB7-3	22' 0"	2.1 RigidLam SP	LVL 1-3	/4 × 14	3	3
FB5-2	18' 0"	2.1 RigidLam SP	LVL 1-3	/4 × 14	2	2
RIM1	12' 0"	1 1/8" × 14" APA	Rim Bo	ard	1	12
BP1	2' 0"	14" PJI-40			1	2
BP2	2' 0"	14" PJI-40			1	2
		Accessories				
PlotID	Length	Product	Plies	Net Qt	У	
		3/4" 4x8 OSB	1	31		



LABEL LEGEND



Revisions 00/00/00 Name 00/00/00 Name 00/00/00 Name 00/00/00 Name 00/00/00

Name



Horton Rid Mason Galen SIOC DR .00R

Scale: 1/4" = 1'-0" Date: // 06/19/24 Designer: **DW** 

> Project #: **24060161** Sheet Number:

9 5/8"

11 1/16"

8 1/8"

1' 10 3/16"

1' 4 3/16"

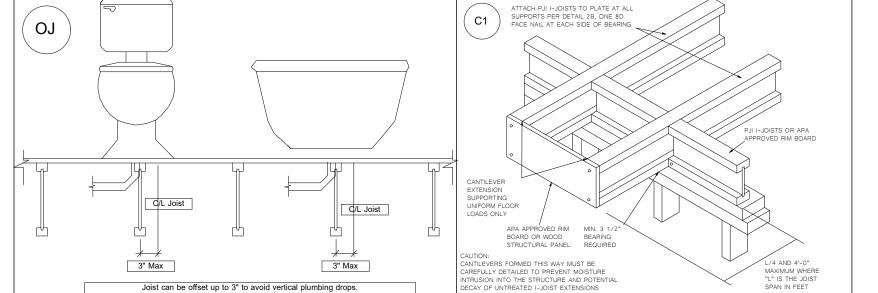
38' 0"

		Products		
PlotID	Length	Product	Plies	Net Qty
J38	38' 0"	14" PJI-40	1	10
J22	22' 0"	14" PJI-40	1	4
J20	20' 0"	14" PJI-40	1	5
J18	18' 0"	14" PJI-40	1	3
J16	16' 0"	14" PJI-40	1	19
J4-2	4' 0"	14" PJI-40	2	4
DB1-2	8' 0"	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	2	2
DB3-2	8' 0"	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	2	2
DB2-2	6' 0"	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	2	2
DB4-2	22' 0"	2.1 RigidLam SP LVL 1-3/4 x 14	2	2
RIM1	12' 0"	1 1/8" × 14" APA Rim Board	1	16
BP1	2' 0"	14" PJI-40	1	16

		Accessories		
PlotID	Length	Product	Plies	Net Qty
		3/4" 4x8 OSB	1	43

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

# **2ND FLOOR LAYOUT**

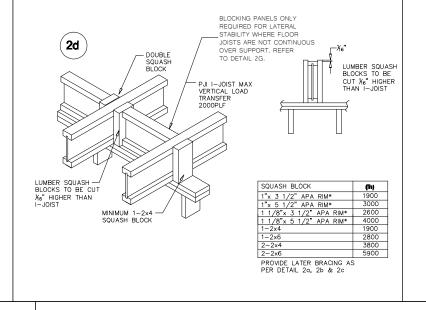


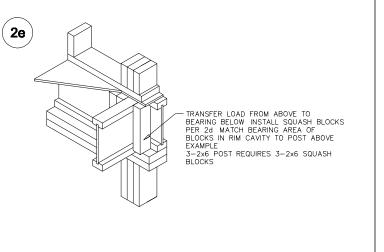
\*\* PLUMBING DROPS NOTED ARE IN APPROXIMATE LOCATIONS PER PLAN. BUILDER MUST VERY LOCATIONS BEFORE SETTING JOISTS.

REFER TO TABLE ON EWP PRODUCT VERTICAL LOAD TRANSFER CAPACITY FOR CLARIFICATION **2b** — ATTACH RIM BOARD TO TOP PLATE USING 8d BOX TOENAILS @ 6" c/c TO AVOID SPLITTING FLANGES , START NAILS 1 ½" FROM END OF I-JOIST NAILS MAY BE DRIVEN IN AT AN ANCLE TO AVOID SPLITING BEARING PLATE

RIM1 DB4-2

20' 8"





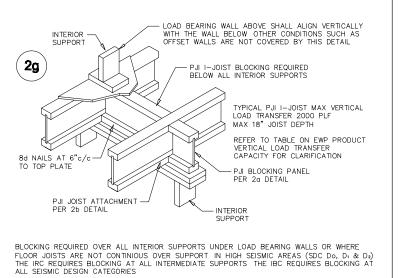
 $\bigcirc$ 

DB3-2

\*\* ALL POINT LOADS FROM ABOVE MUST BE TRANSFERRED TO BEARING FROM UNDER SIDE OF SHEATHING.

RIM1

17' 4"



# DOUBLE PJI I-JOIST HEADER HANGER MUST SUPPORT TOP FLANGE OF JOIST, FILLER BLOCK REQUIRED IF HANGER IS NOT FULL DEPTH OF JOST \*MIN GRADE BACKER BLOCK SHALL BE UTILITY GRADE SPF (SOUTH) OR BETTER FOR SOLID SAWN LUMBER AND SHALL BE RATED SHEATHING GRADE FOR WOOD STRUCTURAL PANELS \*\*FOR FACE MOUNT HANGERS, USE NET JOIST DEPTH MINUS 1 1/4" FOR JOISTS WITH 1 1/2" THICK FLANGES

# LABEL LEGEND BBO = Beam by Others **PBO** = Post by Others

**GBO** = Girder by Others  $\mathbf{J} = \mathbf{I} - \mathbf{Joist}$ 

**FB** = Flush Beam **DB** = Dropped Beam RB = Roof Beam

**BP** = Blocking Panels

SB = Squash Blocks

\*\* REFER TO INSTALLATION GUIDE FOR PLY TO PLY CONNECTIONS.

Revisions 00/00/00 Name 00/00/00 Name 00/00/00 Name 00/00/00 Name 00/00/00 Name

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Scale: 1/4" = 1'-0" Date: // 06/19/24 Designer: **DW** Project #: **24060161** 

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