CALI -A, B, F, M, N, P

PLAN ID: 1764/1765 - LEFT HAND - NORTH CAROLINA

AREA

Ist FLOOR

GARAGE

PORCH

TOTAL LIVING

COVERED PORCH

DATE: **REVISION:**

10/10/2017 **INITIAL RELEASE OF PLANS**

REVISED PLATE HEIGHT TO 9'-1" FROM 8'-1"

REVISED ELEVATIONS TO OMIT SOFFIT AT FRONT PORCH 11/14/2017

CHANGED ALL ELEVATIONS 12/11/2017

CLIENT REVISIONS 01/12/2018 **ELECTRICAL REVISIONS**

REVISED PLAN'S 08/24/2018 CLIENT REVISIONS

CLIENT REVISIONS 09/07/2018

MADE COVERED PATIO STANDARD 10/18/2018 REVISED WINDOW AT OPTIONAL MASTER BATH TO BE STANDARD

11/14/2018 **CLIENT REVISIONS**

01/09/2019 REVISED CODE REFERENCES ADDED MASONRY CALCULATIONS

CLIENT REVISIONS 02/28/2020 PLATE HEIGHT REVISIONS **SHEET INDEX:**

ARCHITECTURALS - QUICK VIEW

ARCHITECTURALS - QUICK VIEW

ARCHITECTURALS - ELEVATIONS A

ARCHITECTURALS - ELEVATIONS B ARCHITECTURALS - ELEVATIONS F

ARCHITECTURALS - ELEVATIONS N

ARCHITECTURALS - ELEVATIONS P

ARCHITECTURALS - FLOOR PLANS A

ARCHITECTURALS - FLOOR PLANS B

ARCHITECTURALS - FLOOR PLANS M

ARCHITECTURALS - FLOOR PLANS N ARCHITECTURALS - FLOOR PLANS P

ELECTRICAL - FLOOR PLANS

REVIEWERS STAMP LOCATION



MODEL 'CALI' SQUARE FOOTAGES ELEV 'M' 1764 SF 1764 SF 425 SF 18 SF

88 SF

COVERSHEE"

Mason Ridge Lot 43 171 Calebs Corner Place Spring Lake, NC 28390

PLAN REV DATE

SHEET NUMBER CS





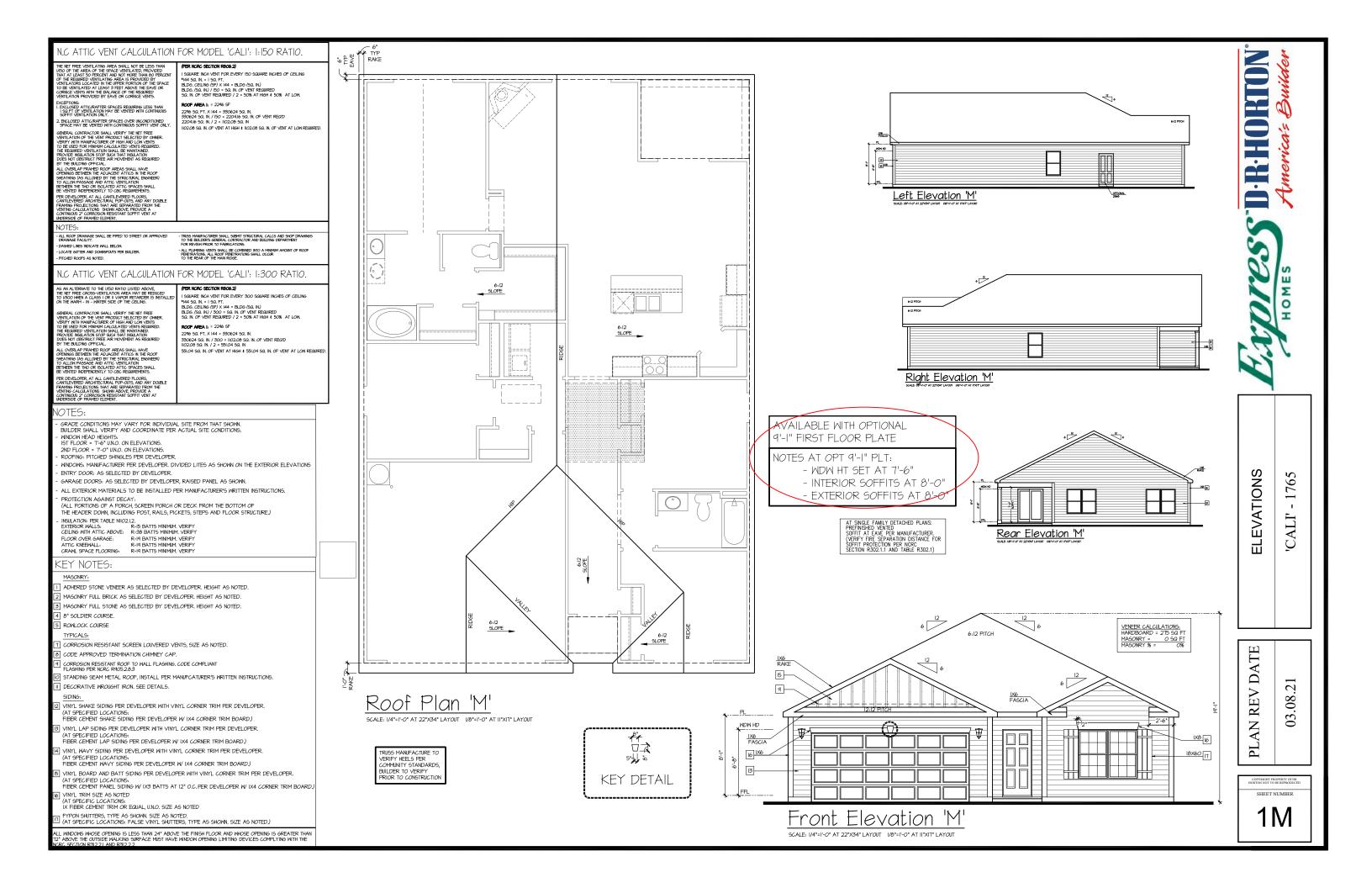


QUICK VIEW
'CALI' - 1765

PLAN REV DATE 03.08.21

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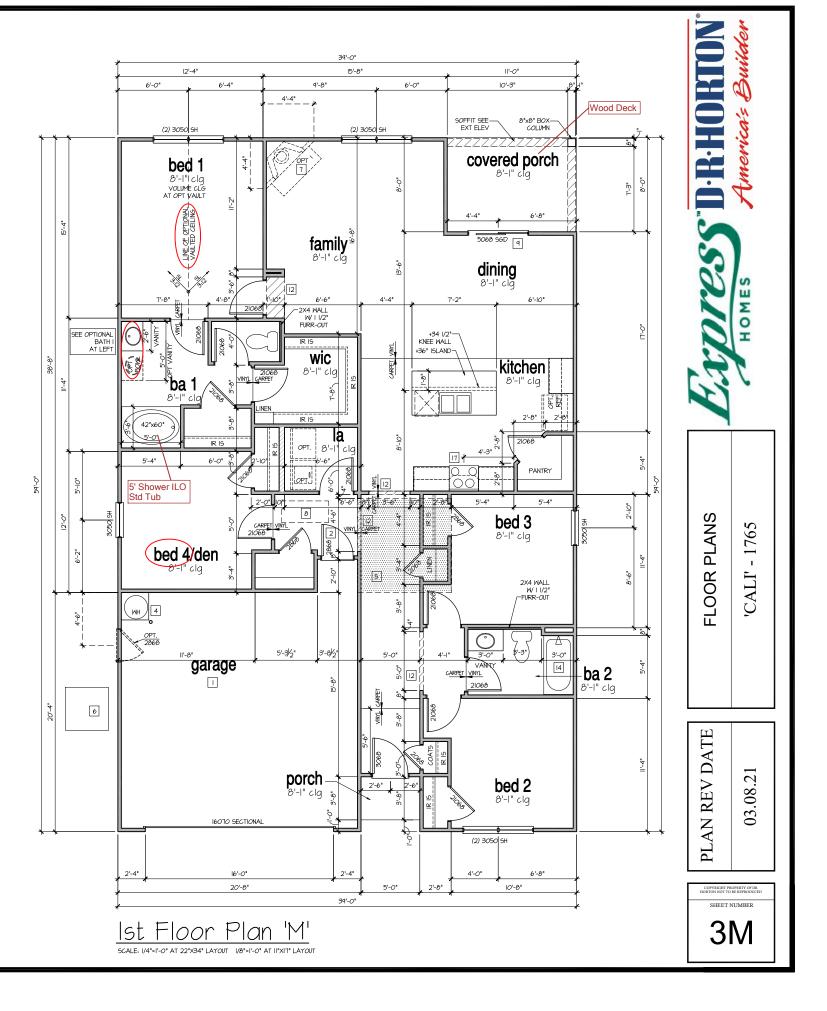


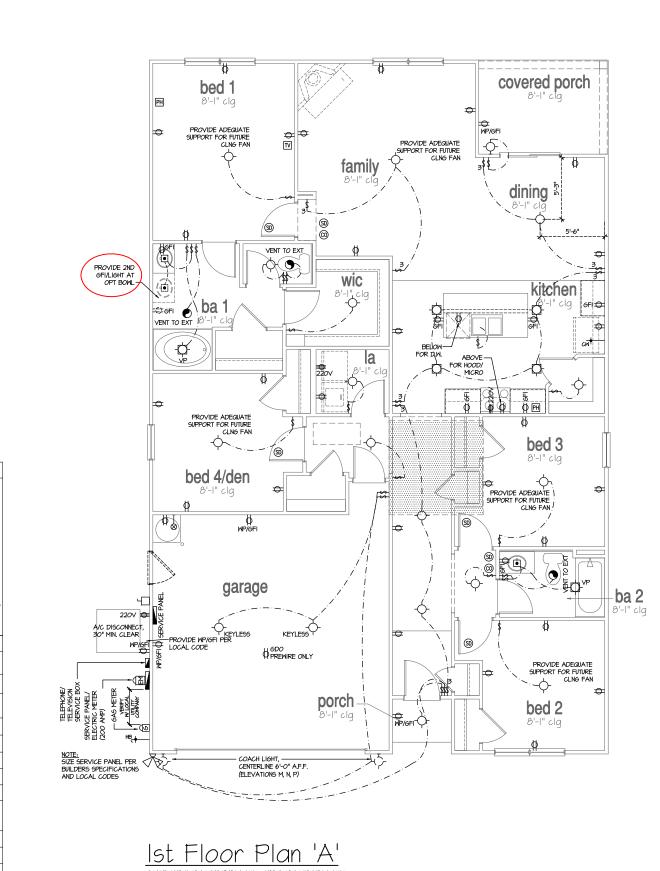


NOTES AT OPT 9'-1" PLT:

- WDW HT SET AT 7'-6"
- INTERIOR SOFFITS AT 8'-0"
- EXTERIOR SOFFITS AT 8'-0"

- WINDOW HEAD HEIGHTS: IST FLOOR = 6'-8" U.N.O. OR 2ND FLOOR = 7'-0" U.N.O. C	E GENERAL NOTES ON TITLE SHEET AND DETAILS. N ELEVATIONS. NI ELEVATIONS. NG AND DOORS ARE TO CENTERLINE.		
WALL LEGEND:			
	777777		
FULL HEIGHT 2X4 MOOD STUD PARTITION	FULL HEIGHT 2X6 WOOD STUD PARTITION		
BRICK / STONE VENEER	STUD WALL BELOW HEIGHT AND STUD SIZE AS NOTED		
LOW GYPSUM BOARD WALL HEIGHT AND STUD SIZE AS NOTED	DRYWALL OPENING, HEIGHT AS NOTED ON PLAN.		
KEY NOTES FO	PR NORTH CAROLINA:		
HOUSE TO GARAGE FIRE SEPARATION GARAGE/HOUSE SEPARATION AT VERTICAL SURFACES SHALL BE PROTECTED WITH ONE (I) LATER 1/2" GYPSIM BOARD, (PER NCRC TABLE R302.6.) GARAGE/HOUSE SEPARATION AT HORIZONTIAL SURFACES SHALL BE PROTIECTED WITH ONE (I) LAYER 5/8" TYPE 'X' GYPSIM BOARD, (PER NCRC TABLE R302.6.) HOUSE TO GARAGE DOOR SEPARATION PROVIDE 1-3/8" SOLID CORE DOOR OR APPONS PEPARATION PROVIDE 1-3/8" SOLID CORE DOOR OR APPONS PEPARATION PROVIDE RATED DOOR, (PER NCRC SECTION R302.5.1.) BINEATH STAIRS AND LANDINGS, 1/2" GYPSIM BOARD ON WALLS AND CELLING OF ENCLOSED ACCESSIBLE AREAS, (PER NCRC SECTION R302.1.) IN CONCEALED SPACES BETWEEN STAIR STRINGERS PROVIDE FIREBLOCKING PER R302.1. MEP'S GAS MATER HEATER ON 18" HIGH PLATFORM (PER CHAPTER 5 NCRC-PLIMBING) (AT SPECIFIC LOCATIONS: ELECTRIC WATER HEATER PER LOCAL CODES) OPTIONAL ATTIC LOCATIONS: ELECTRIC WATER HEATER PER LOCAL CODES) OPTIONAL ATTIC LOCATIONS CONTINUED FOR SIZE OF THE SECOND OF TRUSS, VERIFY W TRUSSES, 2"X6" OVER 2"X4" BOTTOM CHORD. OF TRUSS, VERIFY W TRUSSES) A/C CONDENSER PAD. (VERIFY) PRE-FABRICATED METAL FIREPLACE. INSTALL PER MANUFACTURER'S WRITTEN INSTRICTIONS. ATTIC LOCASES LARGE BROUGH TO REMOVE LARGEST PIECE OF EQUIPMENT BUT NOT LESS THAN 30"> NOT LESS THAN 3			
(25 1/2" X 54" SIZE.) TYPICALS: 4 TEMPERED SAFETY GLAS	is. (PER NGRC SECTION 308.4)		
PLYWOOD SHELF ABOVE	WITH DRYWALL FINISH OVER, HEIGHT AS NOTED.		
III HALF WALL, HEIGHT AS NOTED.			
[4] 30"x60" TUB/SHOWER PAN W VIKRELL SURROUND			
15 N/A			
16 42"x60" ACRYLIC ALCON	/E TUB		
Solde-in Electrical Range W Hood Yent Per Manufacturer's Written Instructions.			
18 30" GAS COOKTOP AND VENT PER MANUFACTURER	HOOD. R'S WRITTEN INSTRUCTIONS.		
19 ELECTRIC OVEN WITH MIC			





America's

HOMES

FLOOR PLANS

PLAN REV DATE

'CALI'

.21

03.08.

SHEET NUMBER



- PROVIDE GROUNDING ELECTRICAL ROD PER LOCAL CODES.
- PROVIDE AND INSTALL ARC FAULT CIRCUIT-INTERRUPTERS (AFCI) AS REQUIRED BY NATIONAL ELECTRICAL CODE (NEC) AND MEETING THE REQUIREMENTS OF ALL GOVERNING CODES.

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

I EGEND.

LEGI	END:		
Ф	DUPLEX OUTLET	-ф-	FLUSH-MOUNT LED CEILING FIXTURE
ØwP/6FI	WEATHERPROOF GFI DUPLEX OUTLET	Ψ	TEST TOTAL PED SELENO TIMORE
Ø 6FI	GROUND-FAULT CIRCUIT-INTERRUPTER DUPLEX OUTLET	-ф-	HANGING FIXTURE
Ф	HALF-SWITCHED DUPLEX OUTLET	Ϋ́	FLUSH-MOUNT LED CEILING FIXTURE
\$ 220√	220 VOLT OUTLET	CFP ^Y	(PROVIDE CEILING FAN SUPPORT)
0	REINFORGED JUNCTION BOX	-\$	2-LIGHT VANITY FIXTURE
\$	WALL SMITCH	-\$	3-LIGHT VANITY FIXTURE
\$з	THREE-WAY SMITCH		
\$4	FOUR-WAY SWITCH	-@	4-LIGHT VANITY FIXTURE
CH	CHIMES	\(\rightarrow \)	WALL MOUNT FIXTURE
9	PUSHBUTTON SWITCH	•	EXHAUST FAN (VENT TO EXTERIOR)
99	IIOV SMOKE DETECTOR W BATTERY BACKUP	V	CEILING FAN
@	CO2 DETECTOR		(PROVIDE ADEQUATE SUPPORT)
(T)	THERMOSTAT	∞	GAS SUPPLY WITH VALVE
PH	TELEPHONE		
īv	TELEVISION	—+} _{HB}	HOSE BIBB
	ELECTRIC METER	-+	I/4" WATER STUB OUT
	ELECTRIC PANEL	Ж	
<u> </u>	DISCONNECT SWITCH	 	WALL SCONCE

DESIGN SPECIFICATIONS: Construction Type: Commerical □ 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 Conventional 2x Truss 20 PSF 121 Attic Truss 60 PSF A Universal Engineering Sciences Company STRUCTURAL PLANS PREPARED FOR: CALI 4.1. Typ. Dwelling 4.2. Sleeping Areas . 40 PSE 43 Decks 40 PSF PROJECT ADDRESS: 50 PSF . 10 PSF 5.1. Conventional 2x . 130 MPH DESIGNER:

DR Horton, Inc. 8001 Arrowridge Blvd. Charlotte, NC 28273

GMD Design Group 102 Fountain Brook Circle Suite C Cary, NC 27511

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

PLAN ABBREVIATIONS

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>, <u>Dussequent</u> 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 <u>BUMMIT</u> immediately.

SHEET LIST:

REVISION LIST:

Date

9.7.18

12.14.18

3 |2 |9

3 16 21

5.3.21

5.1.19

11.20.18 195.83R

3.8.21 TØØ54

9/26/22 10054 8/16/23 TØØ54

Project No

19583

19583R2

21790

2170/20

T0054

TØØ54

9 6/30/2021 T0054 updated 0X-IS bracing Table for Framing and

Revision

Sheet No.	Description	
CSI	Cover Sheet, Specifications, Revisions	
SI.Øm	Monolithic Slab Foundation	
51.Øs	Stem Wall Foundation	
51.0c	Crawl Space Foundation	
SI.Ø6	Basement Foundation	
52.0	Basement Plan	
53.Ø	First Floor Plan	
54.0	Second Floor Plan	
95.Ø	Roof Framing Plan	

Description

Revised per new architecturals

Revised NC version only for 2018 NCRC

Covered porch standard on all elevations

Updated TN version only to 2018 IRC

Added elevation L

Updated Garage Foundation Wal

Added OX-16 Bracing Plan

Added SPF note option

date
Added missing dimension in monolithic slab

Added Note (or Wrapped) to Front and Rea

DR HORTON PROJECT SIGN-OFF

Manager	Signature
Operations	
Operations System	
Operations Product Development	

SUMMIT





RAWNG DATE: 10/103/2023

9CALE: 22x34 |/4"∗1"-Ø" |bx∏ |/8"∗1"-Ø" PROJECT 4 528.TØØ54 DRAWN BY: EO

REFER TO COVER SHEET FOR A

 Roof Live Loads 2. Roof Dead Loads 2.l. Conventional 2x ...
22. Truss 3.1. Importance Factor 4. Floor Live Loads 4.4. Passenger Garage Floor Dead Loads 6. Ultimate Design Wind Speed (3 sec. gust) 6.1. Exposure _____ 62. Importance Factor 63. Wind Base Shear 6.3.1. VX = 6.32. VY = 7. Component and Cladding (in PSF) 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 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 = 87. Basic Structural Sustem (check one) □ Dual w/ Special Moment Frame □ Dual w/ Intermediate R/C or Special Steel ☐ Inverted Pendulum Wind 🖂

GENERAL STRUCTURAL NOTES:

1. The design professional whose seal appears on these drawings is the structural engineer of record (SER) for this project. The SER bears the responsibility of the primary structural elements and the performance of this structure. No other party may revise alter, or delete any structural aspects of these construction documents without 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.
- 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:

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 Societu's Structural Welding Code AWS D.I. Electrodes for shop and field welding shall be class ETOXX. All welding shall be performed by a certified welder per the above standards.

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.

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

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

- specifications listed in the latest edition of the "National Design Specification for Wood Construction" (NDS). Unless otherwise noted, all wood framing members are designed to be Southern-Yellow-Pine (SYP) 2 or Southrn-Spruce Pine (SPF) 2.
- LVL or PSL engineered wood shall have the following minimum design values: 2.1. E = 1,900,000 psi
- 22 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 *9 l6 *
 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 minimu of one king stud shall be placed at each end of the header. King studs shall be continuous.
- Ring studs shall be continuous. Individual studs forming a column shall be attached with one 10d nail 6 6" OC. 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 A tated steading expected in 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 1 or 2. Attach sheathing to its supporting framing with (1)-8d CC ringshank nail at 6"o/c at panel edges and at 12"o/c in panel 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.

STRUCTURAL MEMBERS ONLY

CHECKED BY: M6B

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL
- STRUCTURAL CONCRETE TO BE Fc = 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 SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF
- 2000 FSF. CONTRACTOR IS SOLELLY 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 MASONRY.

 MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE 46
- SPECIFIED IN SECTION R404.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL
- SPECIFIED IN SECTION RADALOF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING 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 DEBRIS.
- FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.16. MINIMUM 1/2" DIA. BOLTS SPACED AT 6'-0' ON CENTER WITH A 1" MINIMM EMBEDMENT INTO MASONRY OR CONCRETE, ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE SECTION, MINIMM (2) ANCHOR BOLTS FER PLATE SECTION, ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- 9. ABBREVIATIONS:
- DJ = DOUBLE JOIST SJ = SINGLE JOIST FT = FLOOR TRUSS GT = GIRDER TRUSS SC = STUD COLUMN EE = EACH END DR = DOUBLE RAFTER
 TR = TRIPLE RAFTER TJ = TRIPLE JOIST OC = ON CENTER
- 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 4 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 PER SECTION R602:10.8 AND FIGURES R602:10.6.5, R602,10,7, 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 LIPER TABLE R4051

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 <u>DR HORTON</u>
COMPLETED/REVISED ON 3/8/2021, 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.

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.

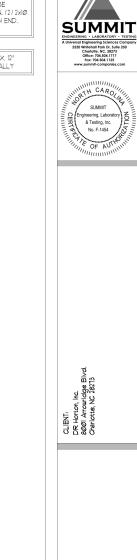
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

CRAWL SPACE FOUNDATION PLAN

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

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

DECK FLOOR JOISTS SHALL BE SPACED AT MAX. 12" ON CENTER WHEN DECKING INSTALLED DIAGONALLY



SUMMIT

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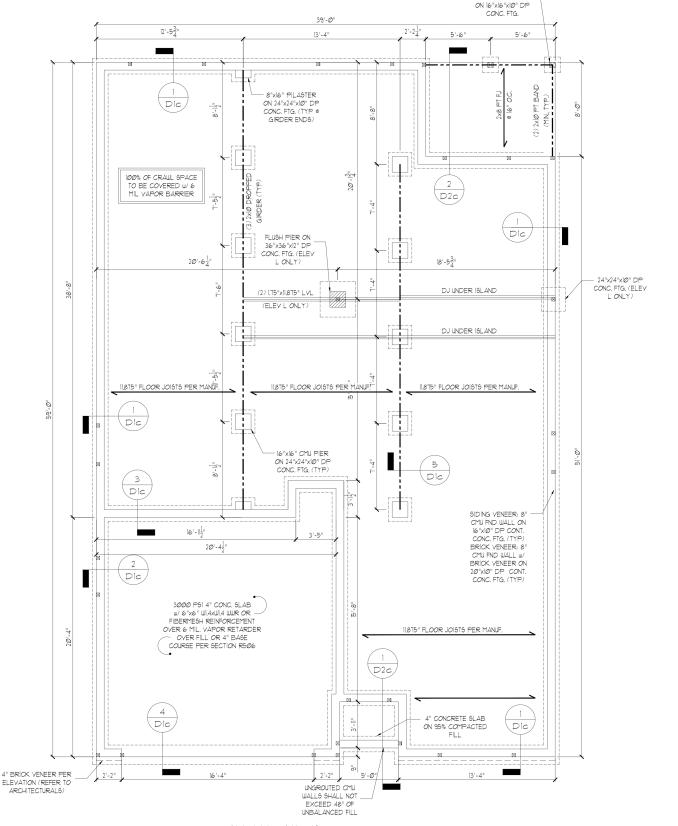


DRAUNG DATE: 10/03/2023 8CALE: 22x34 1/4"+1"-0" lk:|1 1/8"+1"-0" PROJECT 9 528,70054 CHECKED BY: MSB

DATE 12/13/11

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS





6" MIN. PT POST-

ALL ELEVATIONS

REQUIRED BRACED WALL PANEL CONNECTIONS				
1455			REQUIRED CONNECTION	
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 ® 12" O.C.
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.6.4	PER FIGURE R602.10.6.4
"OR EQUIVALENT PER TABLE R102.3.5				

GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING
- CODE WITH ALL LOCAL AMENDMENTS,
 CONTRACTOR SHALL VERRY 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 FORCES ENCOUNTERED DURING ERECTION.
 PROPERTIES USED IN THE DESIGN ARE AS POLLOUS:
 MICROLLAM (LVL), F_B = 2600 PSI, Fv = 285 PSI, E = 1.9x10° PSI
 PARALLAM (PSL), F_B = 3900 PSI, Fv = 390 PSI, E = 1.9x10° PSI
 ALL WOOD MEMBERS SHALL BE "\$ 5YP", SPF (MLESS NOTED ON PLAN, ALL STUD COLUMN AND JOINTS SHALL BE "\$ 5YP", SPF (MLS)
 ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 "\$ 5YP.72 SPF (SUD COLUMN AT EXCLUSION) IN SEA WITHOUT COURS THE STUD COLUMN AT
- EACH END UNLESS NOTED OTHERWISE.

 ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A615

 AND SHALL HAVE A MINIMUM COVER OF 3".

 FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH
- FOUNDATION AND CONTROLLED BE CONTROLLED FOR THE 2009 NORTH CAROLINA RESIDENTIAL CODE SECTION RADIJA, MINIMUM IVI" DIJA BOLITS SPACED AT 6'-0" ON CENTER WITH A 7" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE, ANCHOR BOLITS 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. CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN PERPENDICULAR TO RAFTERS.
- PERFENDICULAR TO RAFIERS. FLITCH BEAMS, 4-PLY LVIS AND 3-PLY SIDE LOADED LVLS SHALL BE BOLTED TOGETHER UITH 1/2" DIA THAI 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 2'44 STP "2'5FF" "2', 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 2'x4 SYP 12/SPF 12, DROPPED. (UNLESS NOTED OTHERWISE)
- ABBREVIATIONS:

DJ = DOUBLE JOIST	SJ = SINGLE JOIST
T = GIRDER TRUSS	FT = FLOOR TRUSS
C = STUD COLUMN	DR = DOUBLE RAFTE
E = EACH END	TR = TRIPLE RAFTER
J = TRIPLE JOIST	OC = ON CENTER
L = CENTER LINE	PI = 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 R602.10.8 AND FIGURES R602.10.6.5, R602.10.1, R602.10.8(1) AND R602.10.8(2) OF THE 2015 IRC

NOTE: 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.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY <u>DR HORTON</u>
COMPLETED/REVISED ON 3/8/2021, IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & 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.

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.

FIRST FLOOR FRAMING PLAN

9CALE: 1/4"=1'-0" ON 22"x34" OR 1/8"=1'-0" ON 11"x17"

FIRST FLOOR BRACING (FT)			
CONTIN	NUOUS SHEATHING M	ETHOD	
	REQUIRED	PROVIDED	
BWL 1-1	9.5	20.0	
BWL 1-2	9.5	14.3	
BWL 1-A	6.1	53.1	
BWL 1-B	6.1	48.0	

FIRST FLOOR BRACING (FT)

CONTINUOUS SHEATHING METHOD

9,5

BWL 1-1

BWL 1-2

REQUIRED

20.0

14.3

BWL 1-2 ---

		SEE. A	
8			(2)
	ROOF TRUSSES P		
(2) A (2) S			(2) A
(2/8			(2)
_	ROOF TRUSSES PER MANUF.	OZ LI JA ROOF TRUSSES PER MANUF.	
8	(2) 2X/2 CONT HEADER W/ (2) 5.C, EACH BEARING	(2) 22% PT OR (2) (2) (2) (2) (2) (3) 2% PT OR (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	
*	FRAME PORTAL WALL PER DETAIL I/DIF	(MIN, TYP.)	
	BWL 1-A	ELEVATION AM BUL 1-B	

ELEVATION MN.P: ROOF TRUSSES PER MANUF.

ELEV MN.P ONLY: MIN. 4" P.T. POSTS

ATTACH POSTS TO HEADER W/ 9ST CSI6 STRAPS AND ATTACH POSTS TO FOUNDATION W/ 9ST ABA44 POST BASE OR EQUIV. (TYP)

OR COL. RATED FOR 2000* (MIN. TYP

BUL I-B

(2) 2XIØ PT OR DROPPED HEADER

ELEV ABF: B

(MIN. TYP.)

BUL 1-A

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)		
H	(3) 2xlØ	(2)		
	(3) 2x12	(2)		

HEADER SITES SHOUN ON PLANS ARE MINIMUMS GREATER HEADER SIZES SHOWN ON FLAMS ARE THIN IN IN 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	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

| 151 # 2ND FLOOR LOAD BEARING STUDS: 2x4 STUDS @ 16" OC. OR 2x6 STUDS @ 24" OC. | 151 FLOOR LOAD BEARING STUDS @ 16" OC. 2x4 STUDS @ 12" OC. OR 2x6 STUDS @ 16" OC. 2x4 STUDS @ 12" OC. OR 2x6 STUDS @ 16" OC. 2x4 STUDS @ 12" OC. OR 2x6 STUDS @ 16" OC. NON-LOAD BEARING STUDS (ALL FLOORS) 2x4 STUDS @ 24" O.C. TWO STORY WALLS: 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.C. BALLOON FRAMED W/ CROSS BRACING @ 6'-0" O.C. VERTICALLY

KING STUD RI	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)
Chic Atio prolines	

APPLY TO PORTAL FRAMED OPENINGS

BRACED WALL NOTES:

R6021064 (UNO)

- 1) WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED PER SECTION RE02:10 OF THE 2018 NO RESIDENTIAL CODE. UALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO 130 MPH.
- REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING
- 3. BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN
- ACCORDANCE WITH IRC TABLE R602/04.

 4. ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED ID FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL
- ENGINEERING CALCULATIONS.
 MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.10.5. THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- 1/27 3 FROM BOARD (MO).
 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.

 10. THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 20 FEET.
- II. MASONEY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR
 LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN
 ACCORDANCE WITH FIGURE R602/09 OF THE 2015 IRC.

 12. BRACED WALL PANEL CONNECTIONS TO FLOORCELING SHALL BE
- CONSTRUCTED IN ACCORDANCE WITH SECTION R602/03 BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602/03/2 AND FIGURES R602.10.8(1)4(2)4(3).
- 14. CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10.11
 15. PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE
- ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS. ABBREVIATIONS:

GB = GYPSIM BOARD | IJSP = IJOOD STRUCTURAL PANEL CS-XXX = CONT. SHEATHED ENG = ENGINEERED SOLUTION
PF = PORTAL FRAME PF-ENG = ENG. PORTAL FRAME





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

QŢ PROJECT: Cali - LH First



DRAUNG DATE: 10/03/2023 8CALE: 22x34 1/4"+1"-0" lk:|1 1/8"+1"-0" PROJECT 9 528,70054

CHECKED BY: MSB DATE 12/13/11

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL, PLANS PROVIDED BY DR HORTON COMPLETED/REVISED ON 393/2021, IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SWIMMIT ENGINEERING, LABORATORY 4 TESTING, INC., IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL, PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY 4 TESTING, NO. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

NOTE: 15T PLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP, UNO)

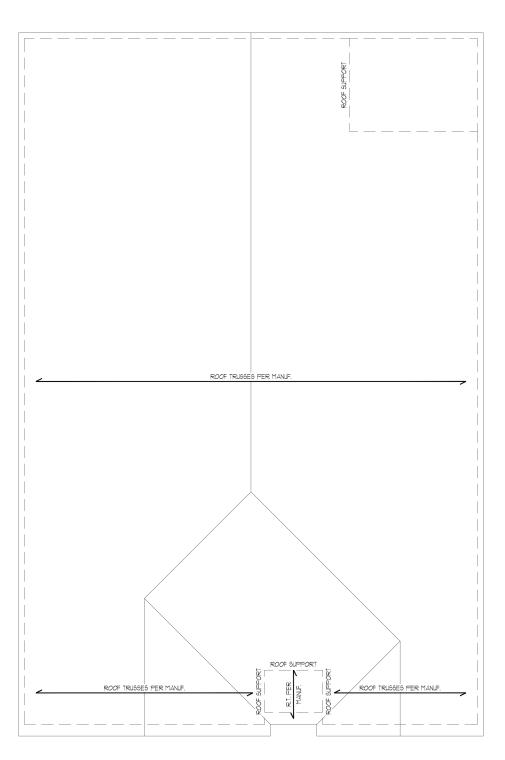
NOTE: ROOF TRUSSES SHALL BE SPACE TO SUPPORT FALSE FRAMED DORMER WALLS (TYP, UNO)

STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

ROOF FRAMING PLAN 9CALE: 1/4"=1"-0" ON 22"x34" OR 1/8"=1"-0" ON 11"x17"



ELEVATION M





Framing PROJECT: Call - LH



DRAUNG DATE: 10/03/2023

8CALE: 22x34 1/4"+1"-@" lk:\(\tau\) 1/8"+1"-@" PROJECT 9 528,10054 CHECKED BY: MSB

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

DESIGN SPECIFICATIONS:

Construction Tupe: Commerical □ 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

ign L	oads:		
1.		Live Loads	
		Conventional 2x	
	1.2.	Trus s	20 PS
		12.1. Attic Truss	_ 60 PS
2.		Dead Loads	
	2.1.	Conventional 2x	10 PSI
	2.2.	Truss	_ 20 PS
3.			
	3.1.	Importance Factor	lø
4.	Floor	Live Loads	
	4.1.	Typ. Dwelling	40 PS
	4.2.	Sleeping Areas	30 PS
		Decks	
	4.4.	Passenger Garage	50 PS
5.	Floor	Dead Loads	
	5.1.	Conventional 2x	10 PSI
	5.2.	I-Joist	15 PSF

53. 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'	3 Ø'l"-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 0 .7	20.4,-21.3
ZONE 5	18.2,-24.0	19.2,-25.2	19.9,-26.1	20.4,-26.9

Seismi	ic		
8.1.	Site Class	 ·····	. D
8.2.	Design Category	 	. C
8.3.	Importance Factor	 	. I.Ø
84	Seismic Use Group		1

8.4. Seismic Use Group _______ 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: TBD

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:

ANCHOR BOLT	PT	PRESSURE TREATED
ABOVE FINISHED FLOOR	RS	ROOF SUPPORT
CEILING JOIST	SC	STUD COLUMN
CLEAR	5 J	SINGLE JOIST
DOUBLE JOIST	SPF	SPRUCE PINE FIR
DOUBLE STUD POCKET	SST	SIMPSON STRONG-TIE
EACH END	S YP	SOUTHERN YELLOW PINE
EACH WAY	ŤJ	TRIPLE JOIST
OT TO SCALE	TSP	TRIPLE STUD POCKET
ON CENTER	TYP	TYPICAL
POUNDS PER SOUARE FOOT	UNO	UNLESS NOTED OTHERWISE
POUNDS PER SQUARE INCH	WWF	WELDED WIRE FABRIC
	BOYE FINISHED FLOOR EILING JOIST LEAR OUBLE JOIST OUBLE STUD POCKET ACH END ACH WAY OUT TO SCALE N CENTER OUDS FER SQUARE FOOT	BOVE FINISHED FLOOR RS EILING JOIST SC LEAR S, LEAR S, UBLE JOIST SFF OUBLE STUD POCKET S6T ACH END SYP ACH WAY T, TO TO GCALE TSP N CENTER TYP OUNDS PER SQUARE FOOT UNO

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

Project No.

Revision

No.

Sheet No.	Description
CSI	Cover Sheet, Specifications, Revisions
Dlm	Monolithic Slab Foundation Details
Dis	Stem Wall Foundation Details
Dlc	Crawl S pace Foundation D etails
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: 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.
- 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.

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_u) of 36 ksi 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 inlined.

 Reinforcing steel may not extend through a beau cut joint.

 Reinforcing steel may extend through a sau 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 racking 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
- office reinforcing bars shall be new brillet steet combining to ASTM Abig 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 30" bends, or corner 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_b = 26000 psi 2.3.F_v = 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 consolidations. specifications.
- All beams shall have full bearing on supporting framing members unless otherwise noted.

 Exterior and load bearing stud walls are to be 2x4 SYP *2 * 16" O.C. unless otherwise noted. Studs shall be continuous from the sole plate to the double top plate. Studs shall only be

discontinuous at headers for window/door openings. A minimum of one king stud shall be placed at each end of the header.

- 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 roots the ASES 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
- The trusses shall be designed, fabricated, and erected in accordance with the latest edition of the "National Design Specification for Wood Construction" (NDS) and "Design Specification for Metal Plate Connected Wood Trusses."
- 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 be per the manufacture

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

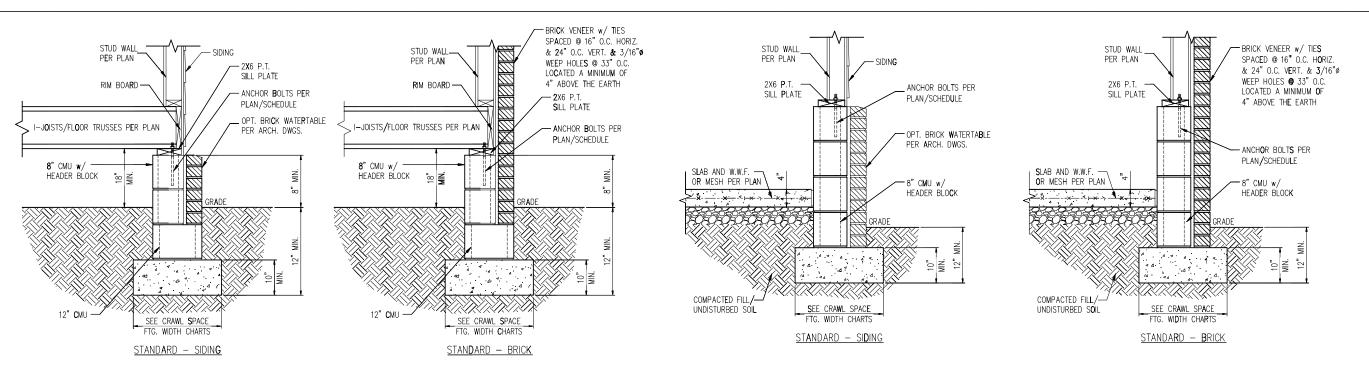
Details Foundation Space 1 PROJECT: Standard D Crawl



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

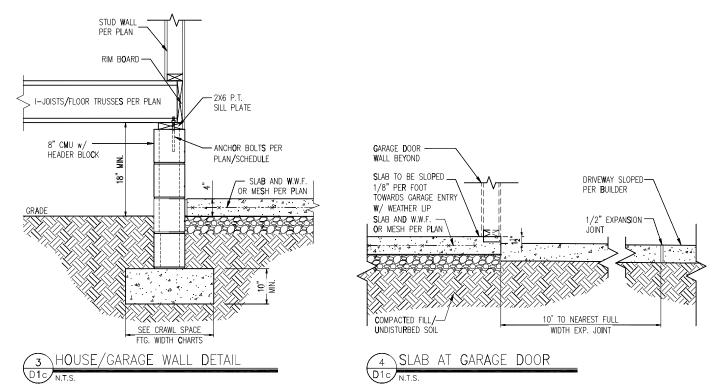
REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

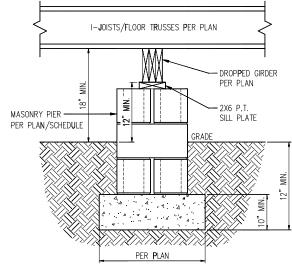
Dlc



TYP. FOUNDATION WALL DETAIL

TYP. GARAGE CURB DETAIL





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

	HOLLOW	SOLID			
	UP TO 32" HEIGHT	UP TO 5'-0" HEIGHT			
		UP TO 9'-0" HEIGHT			
1 6 "X16"	UP TO 64" HEIGHT	UP TO 12'-0" HEIGHT*			
24"X24"	UP TO 96" HEIGHT	UP TO 12'-0" HEIGHT*			
24"X24" UP TO 96" HEIGHT UP TO 12'-0" HEIGHT* *(4) #4 CONT. REBAR w/ #3 STIRRUPS @ 16" O.C.					
AND 24" MIN. LAP JOINTS					

CRAWL SPACE FOOTING WIDTH

PIER SIZE AND HEIGHT SCHEDULE

010000000000000000000000000000000000000	1110 111				
# OF STO R IES	WIDTH BASED ON SOIL BEARING CAPACITY				
	150 0 PSF	2000 PSF	2500 PSF		
1 STORY - STD.	16"	16"	16"		
1 STORY - BRICK VENEER	21"*	21"*	21"*		
2 STORY - STD.	16"	16"	16"		
2 STORY - BRICK VENEER	21"*	21"*	21"*		
3 STORY - STD.	23"	18"	18"		
3 STORY - BRICK VENEER	32"*	24"*	24"*		
*5" BRICK LEDGE HAS BEEN ADDED TO THE CRAWL SPACE					
FOOTING WIDTH FOR BRICK SUPPORT					

WALL ANCHOR SCHEDULE

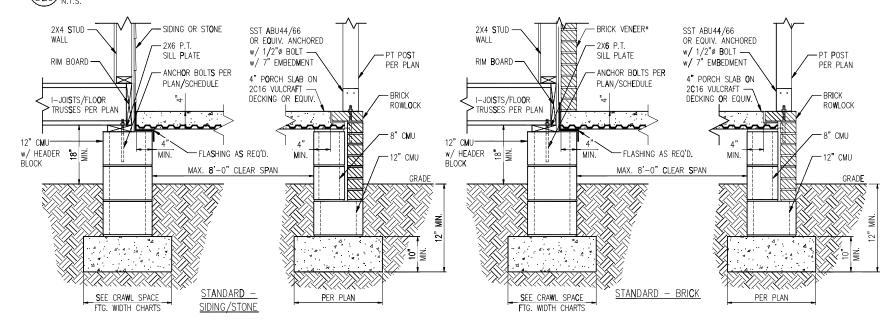
TIMEL MITORIOR SOMEBOLL				
TYPE OF ANCHOR	MIN. CONC.	SPACING	INTERI O R	EXTERIOR
	EMBEDMENT	EMBEDMENT	WALL	WALL
1/2"ø A3 0 7 BOLT S w/	7"	6'-0"	YES	YES
STD. 90° B END				
S\$T - MAS	4"	5'-0"	NO	YES
HILTI KWIK BOLT KBI 1/2-2-3/4	2-1/4"	6'-0"	YES	NO
1/2"ø HILTI THREADED ROD	7"	6'-0"	YES	YES
w/ HIT HY150 ADHESIVE				

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

- NOTES:

 1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
- 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

1 TYP. FRONT PORCH DETAIL



10 FRONT PORCH DETAIL W/ SUSPENDED SLAB

DECK ATTACHMENT SCHEDULE (ALL STRUCTURES EXCEPT BRICK)

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

- a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.
- b. MINIMUM EDGE DISTANCE FOR BOLTS IS $2\frac{1}{2}$ ".
- c. NAILS MUST PENETRATE THE SUPPORTING STRUCTURE BAND A MINIMUM OF 11/2"

DECK ATTACHMENT SCHEDULE (BRICK STRUCTURES)

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

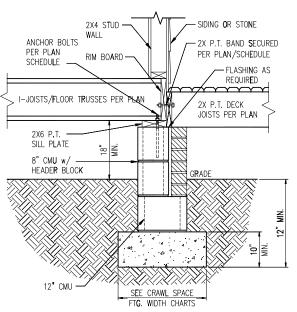
- a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.
- b. MINIMUM EDGE DISTANCE FOR BOLTS IS $2\frac{1}{2}$ ".

CRAWL SPACE FOOTING WIDTH

FOOTING WIDTH FOR BRICK SUPPORT

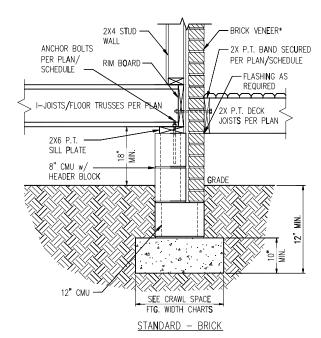
# OF STORIES	WIDTH BASED	ig capa c ity	
	1500 PSF	2000 P SF	2500 P S F
1 STORY - STD.	16"	16"	16"
1 Story – Brick V eneer	21"*	21"*	21"*
2 STORY - STD.	16"	16"	16"
2 Story – Brick V eneer	21"*	21"*	21"*
3 STORY - STD.	23"	18"	18"
3 Story – Brick V eneer	32"*	24"*	24"*
*5" BRICK LEDGE HAS BEEN A	ADDED 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



.DE**c**k attachme**n**t detai**l** 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





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

Details Foundation Space 1 PROJECT: Standard Di Crawl

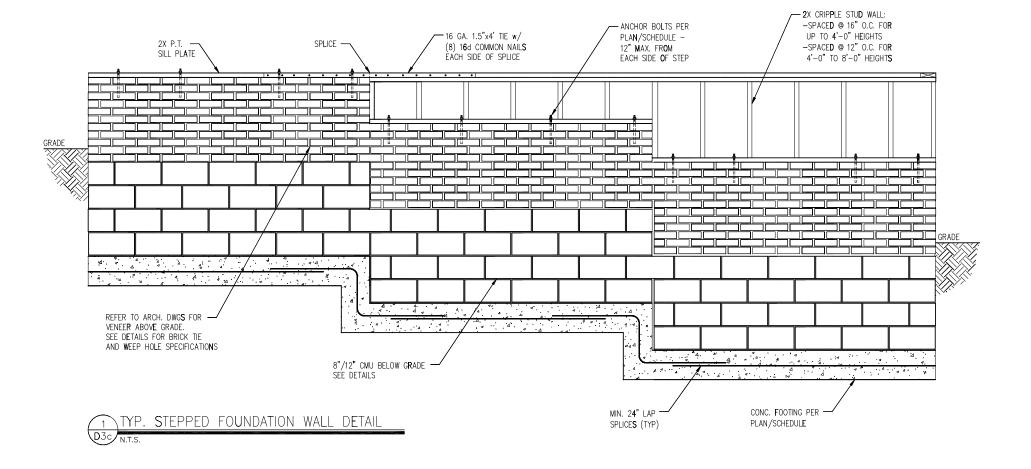


DATE: Ø2/4/2023 9CALE: 22x34 1/4"+1"-6" lbcT 1/8"+1"-6" PROJECT 4 528-66R DRAWN BY: JOEF CHECKED BY: BCP

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 Division 8001 Arrowridge Bivd. Charlotte, NC 28213

PROJECT: Standard Details (0x-15) Crawl Space Foundation Details



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

A 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

DATE: 02/4/1093

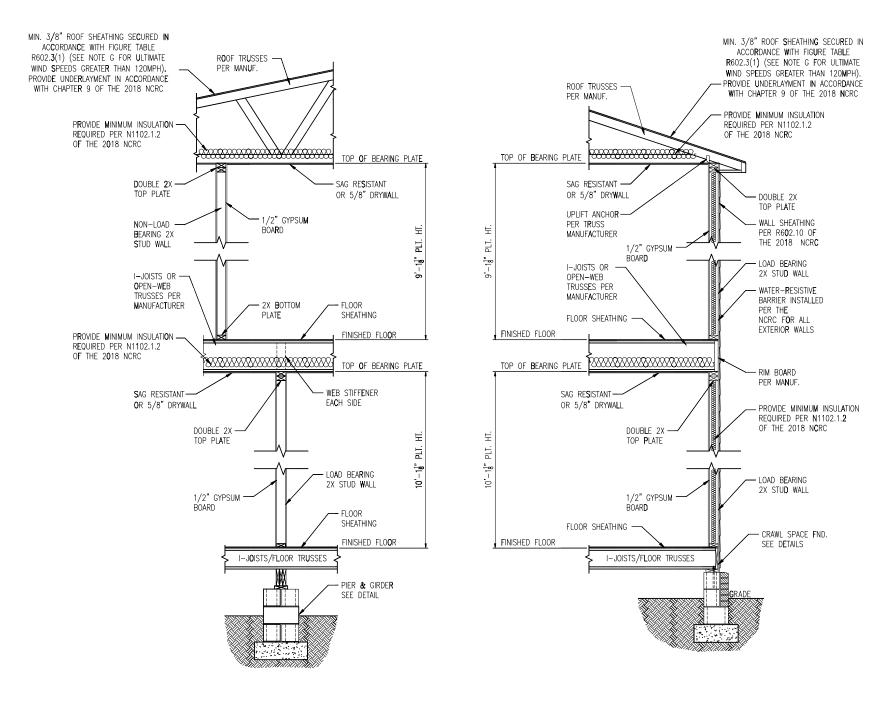
9CALE: 2264 1/4*1*-6*
BMT 1/6*1*-6*
PROJECT 1/526-66R

DRAIN BY: JCEF
CHECKED 5Y: BCP

ORIGINAL INFORMATION
PROJECT DATE
1/31/2011

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D4c

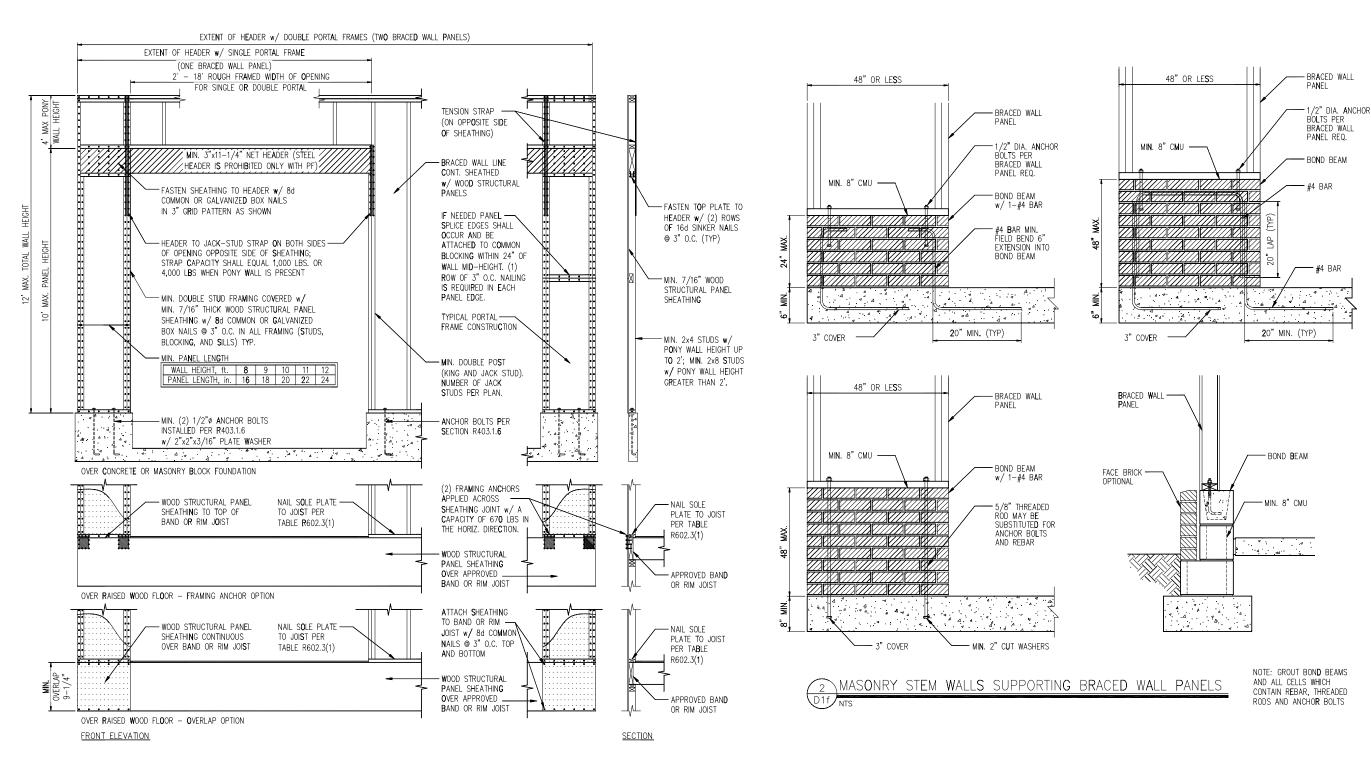


1 TYP. INTERIOR LOAD BEARING WALL SECTION

TYP. EXTERIOR LOAD BEARING WALL SECTION

3/4" = 1'-0" - SIMILAR w/E

-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

SUMMIT

SIDE LABORATOR TESTE

120 PERMARC DR. SUITE 100

PALEIGN, NC 2703

OFFICE: 915.380,9991

FAX: 1915.380,9993



Carolina Division ridge Blvd.

CLIENT:
DR Horton Carolina DIVI
8001 Arrountige BIVd.
Charlotte, NC 28213

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

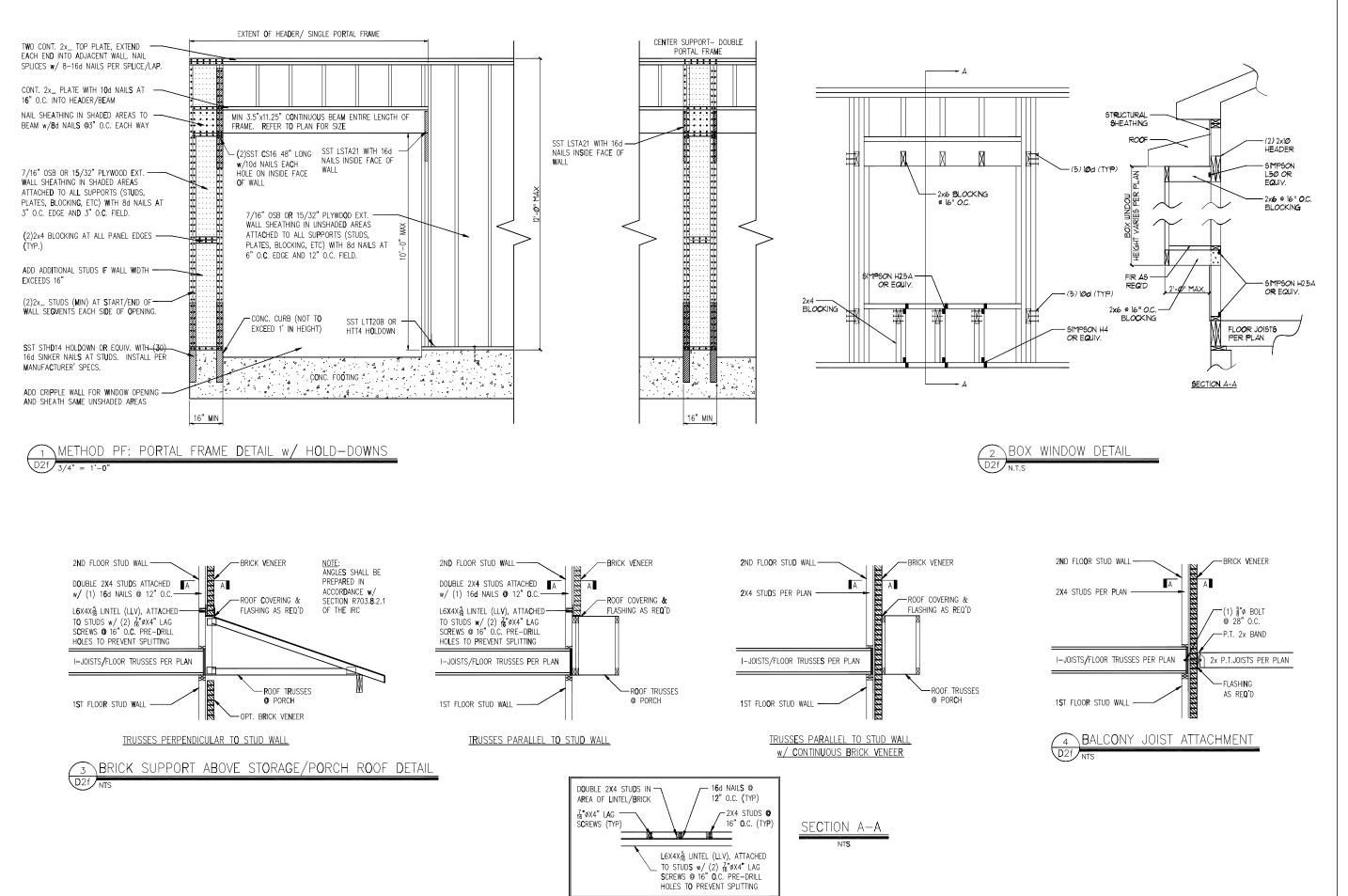


DRAINS
DATE: 02/4/02/3
SCALE: 22/04 1/4*1*-0*
INT 1/8*1*-0*
PROJECT * 5/28-06R
DRAIN BY: JCEF
CHECKED BY: BCP

ORIGINAL INFORMATION
PROJECT DATE
1/31/2017

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

Dlf



SUMMIT

130 PRIMARC DR., SUITE 100

RALEDRI, NC. 27603

GYPICE: 193-380, 5991

WWW. 1913-380, 5991



ton Carolina Division rouridge Blvd.

PROJECT. Standard Details (OX-15) Framing Details

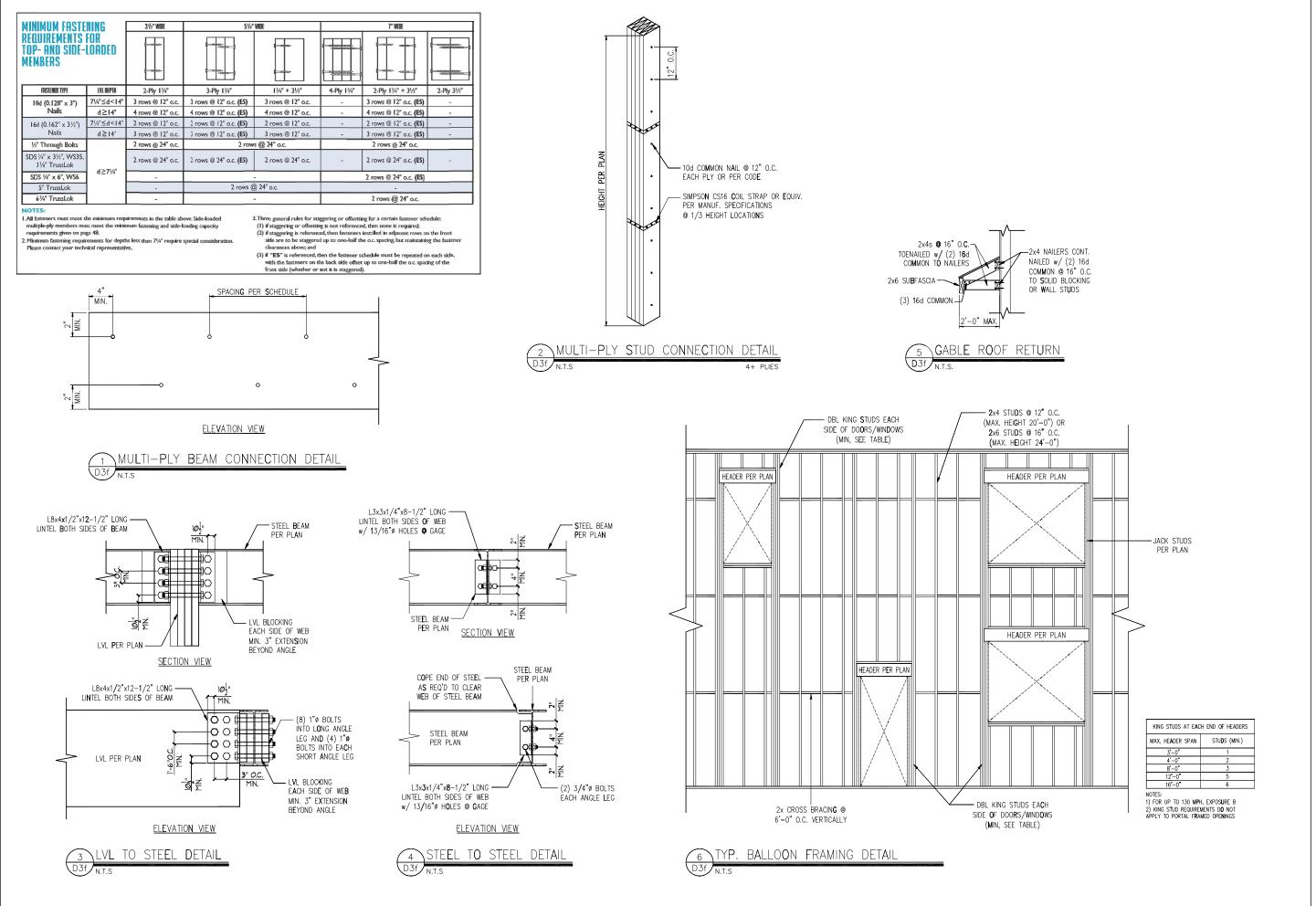


DRAWNS
DATE #2/M/1023
SCALE: 22x24 V4**I*-Ø*
PROJECT *1 528-06-R
DRAWN BY: XEF
CHECKED BY: BCP

ORIGINAL INFORMATION
PROJECT * DATE
1/31/2011

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

D2f







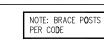
alls (0x-15) | Detail PROJECT: Standard Details Framing



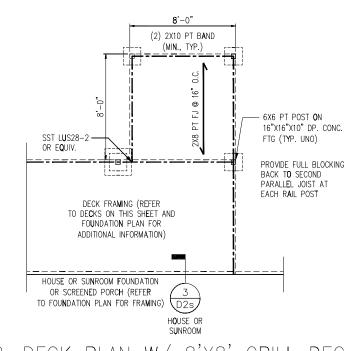
DATE: Ø2/4/2023 9CALE: 22x34 V4"+1'-6" lbtT V8"+1'-6" PROJECT & 528-66R DRAWN BY: JOEF CHECKED BY: BCP

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D3f



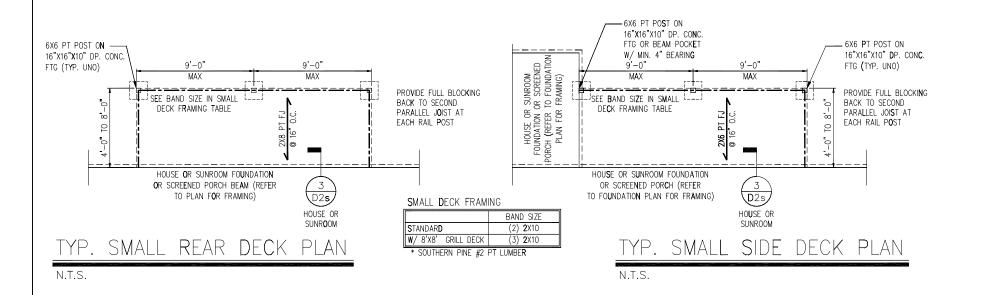
SÜMMIT



PROVIDE FULL BLOCKING

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

<u>- t</u>

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

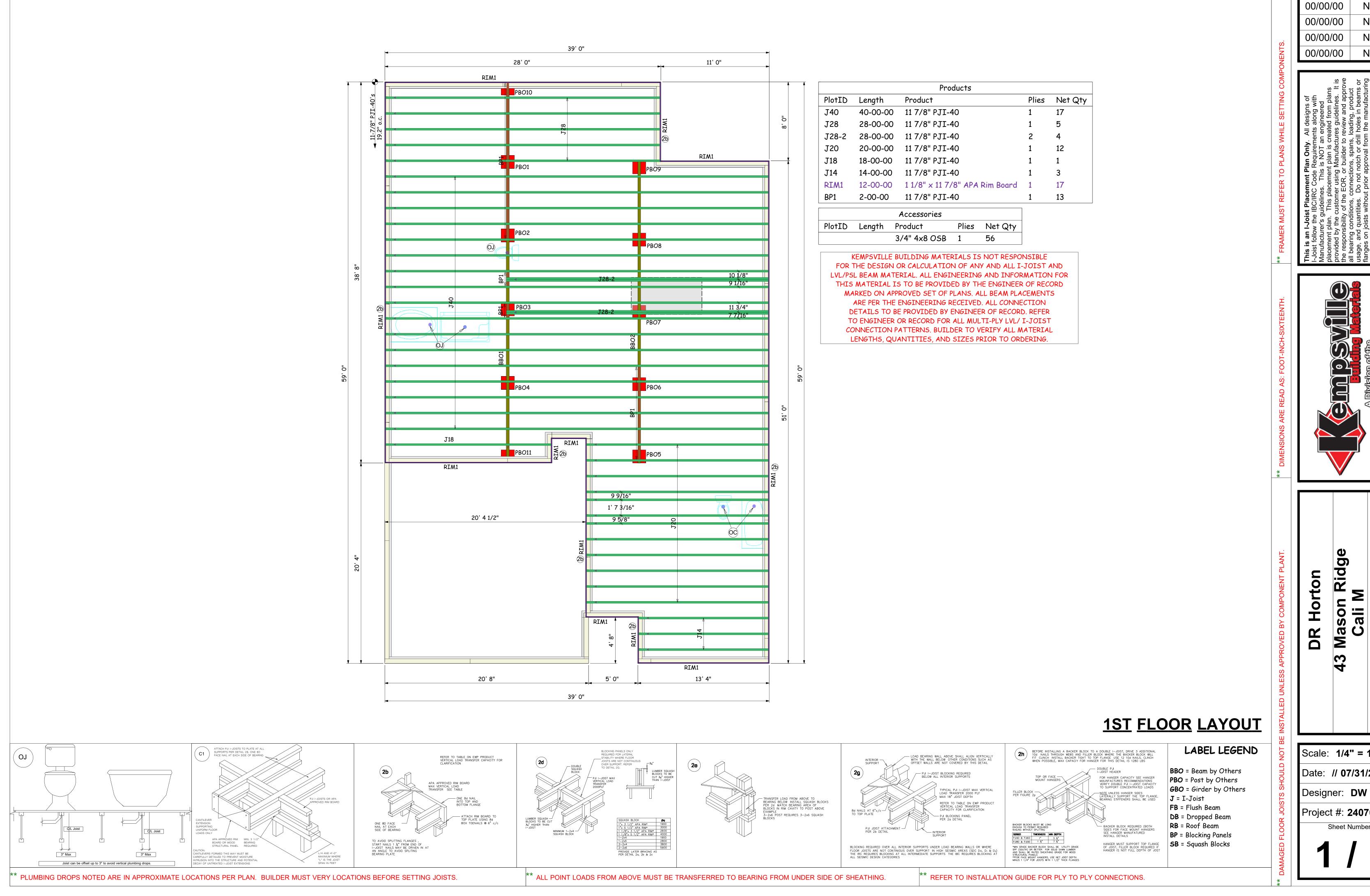
CLIENT: DR Hort 8001 A

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



General Notes: ** CUTTING OR DRILLING OF COMPONENTS SHOULD NOT BE DONE WITHOUT CONTACTING COMPONENT SUPPLIER FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION.

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

** LVL AND JOISTS MUST BE FULLY CONNECTED TOGETHER PRIOR TO ADDING ANY LOADS.

Name Name

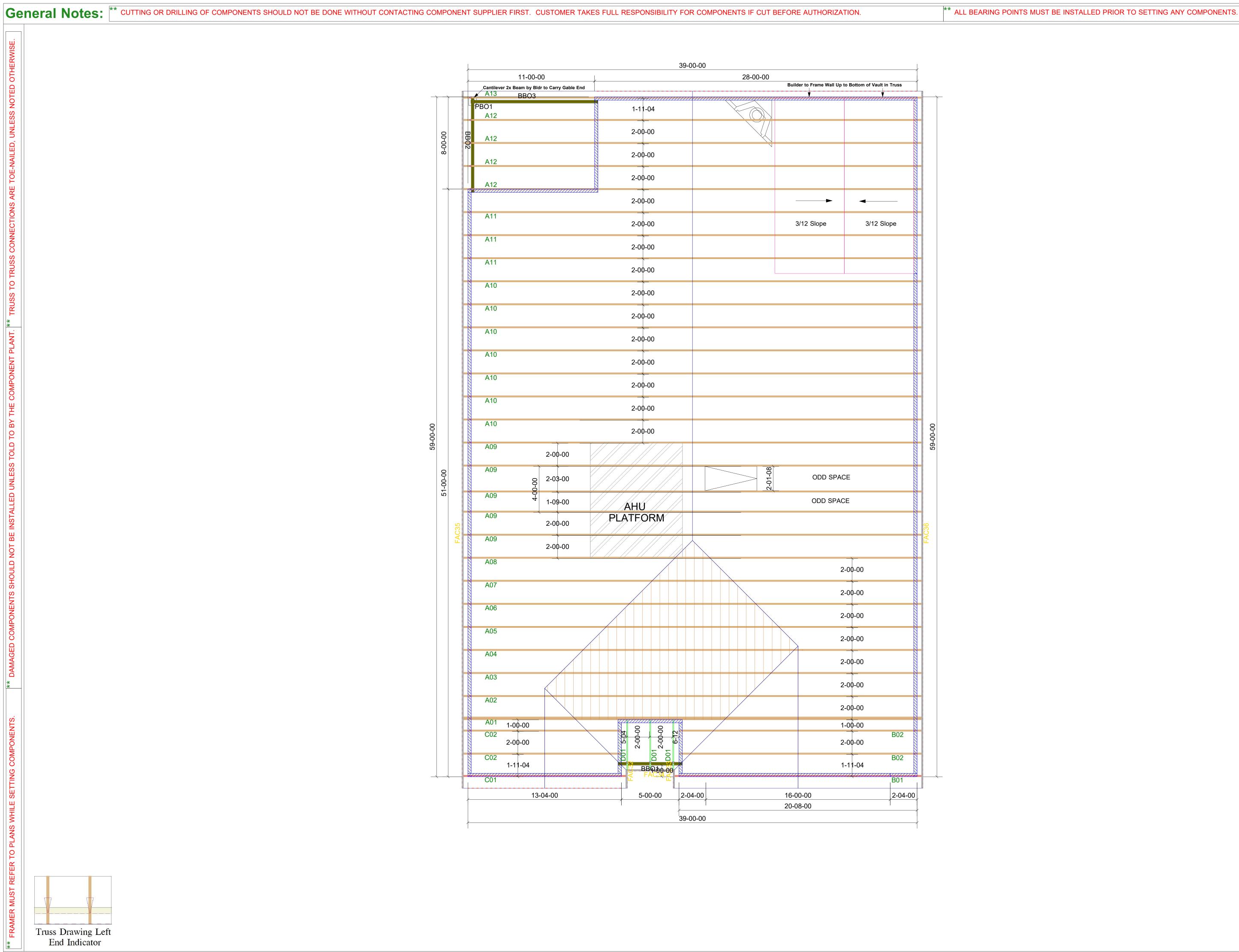
ge Rid Mason JOIS a .00R

Scale: **1/4" = 1'-0"**

Date: // 07/31/24

Project #: **24070189**

Sheet Number:



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n Ridge-Roof-Ca VMB GLH DR Horton Inc

ROOF 43 8/2/2024 Designer: Nate Donaldson Project Number: **24070189-01**

Sheet Number:

Truss Drawing Left End Indicator