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

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

REVISION: DATE:

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

REVISED PLATE HEIGHT TO 9'-1" FROM 8'-1" 10/20/2017

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

CHANGED ALL ELEVATIONS 01/12/2018 **CLIENT REVISIONS**

FLECTRICAL REVISIONS 02/07/2018 REVISED PLAN'S 03/16/2018

CLIENT REVISIONS 08/24/2018 09/07/2018 **CLIENT REVISIONS**

MADE COVERED PATIO STANDARD

REVISED WINDOW AT OPTIONAL MASTER BATH TO BE STANDARD

11/14/2018 CLIENT REVISIONS

REVISED CODE REFERENCES 01/09/2019 12/12/2019 ADDED MASONRY CALCULATIONS **CLIENT REVISIONS**

PLATE HEIGHT REVISIONS 03/08/2021

SHEET INDEX:

ARCHITECTURALS - COVERSHEET ARCHITECTURALS - QUICK VIEW

ARCHITECTURALS - QUICK VIEW

ARCHITECTURALS - ELEVATIONS A

ARCHITECTURALS - ELEVATIONS B

ARCHITECTURALS - ELEVATIONS F

ARCHITECTURALS - ELEVATIONS M ARCHITECTURALS - ELEVATIONS N

ARCHITECTURALS - ELEVATIONS P

ARCHITECTURALS - FLOOR PLANS A

ARCHITECTURALS - FLOOR PLANS B

ARCHITECTURALS - FLOOR PLANS F

ARCHITECTURALS - FLOOR PLANS M ARCHITECTURALS - FLOOR PLANS N

ARCHITECTURALS - FLOOR PLANS P

ELECTRICAL - FLOOR PLANS

REVIEWERS STAMP LOCATION

MODEL 'CALI' SQUARE FOOTAGES				
AREA		ELEV 'P'		
lst FLOOR		1764 SF		
TOTAL LIVING		1764 SF		
GARAGE		425 SF		
PORCH		18 SF		
COVERED PORCH		88 SF		

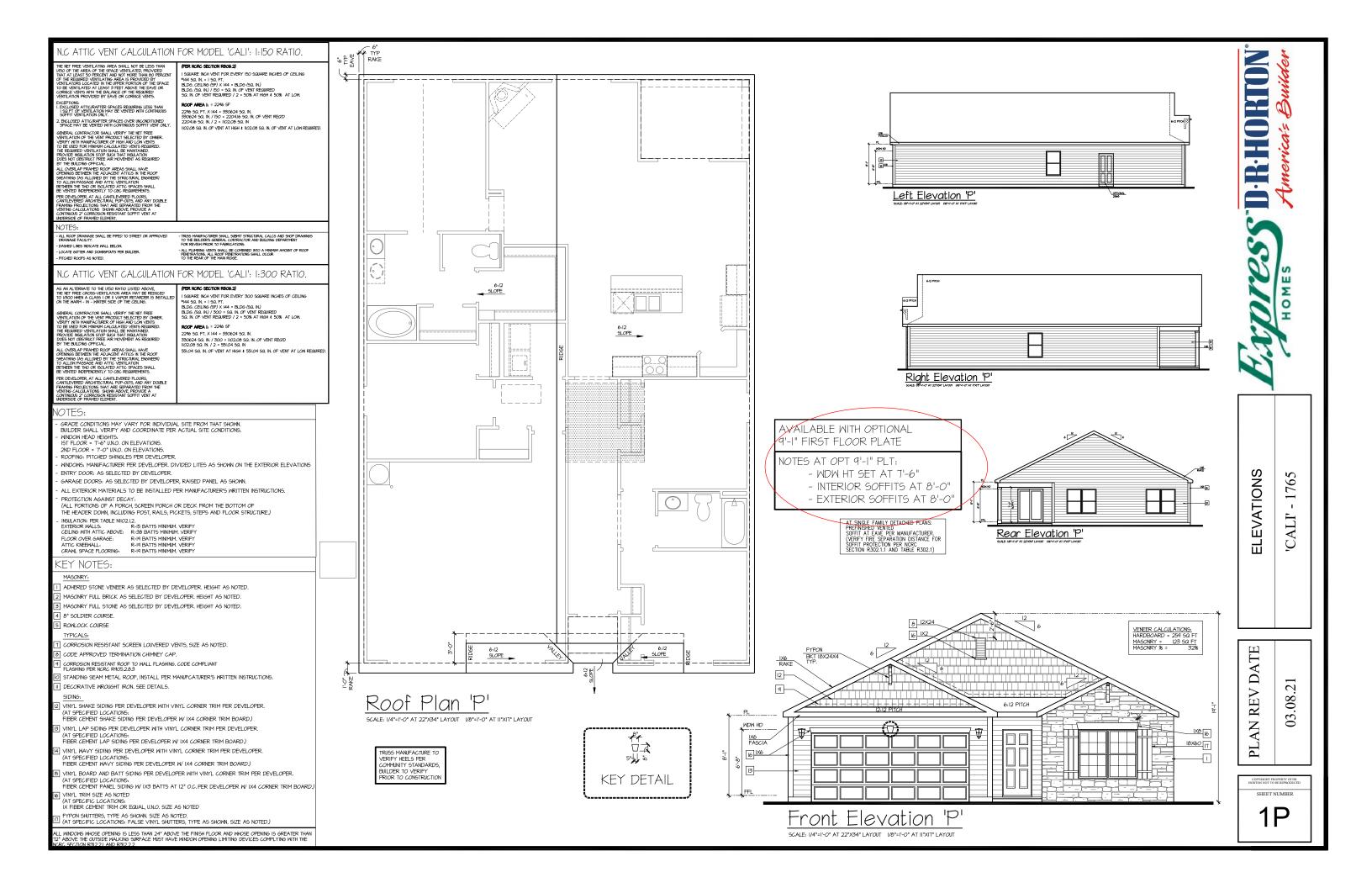
LAFAYETTE MEADOWS LOT 3 **LONG MEADOW LANE FUQUAY VARINA, NC 27526** PIN:0653-39-3458.000

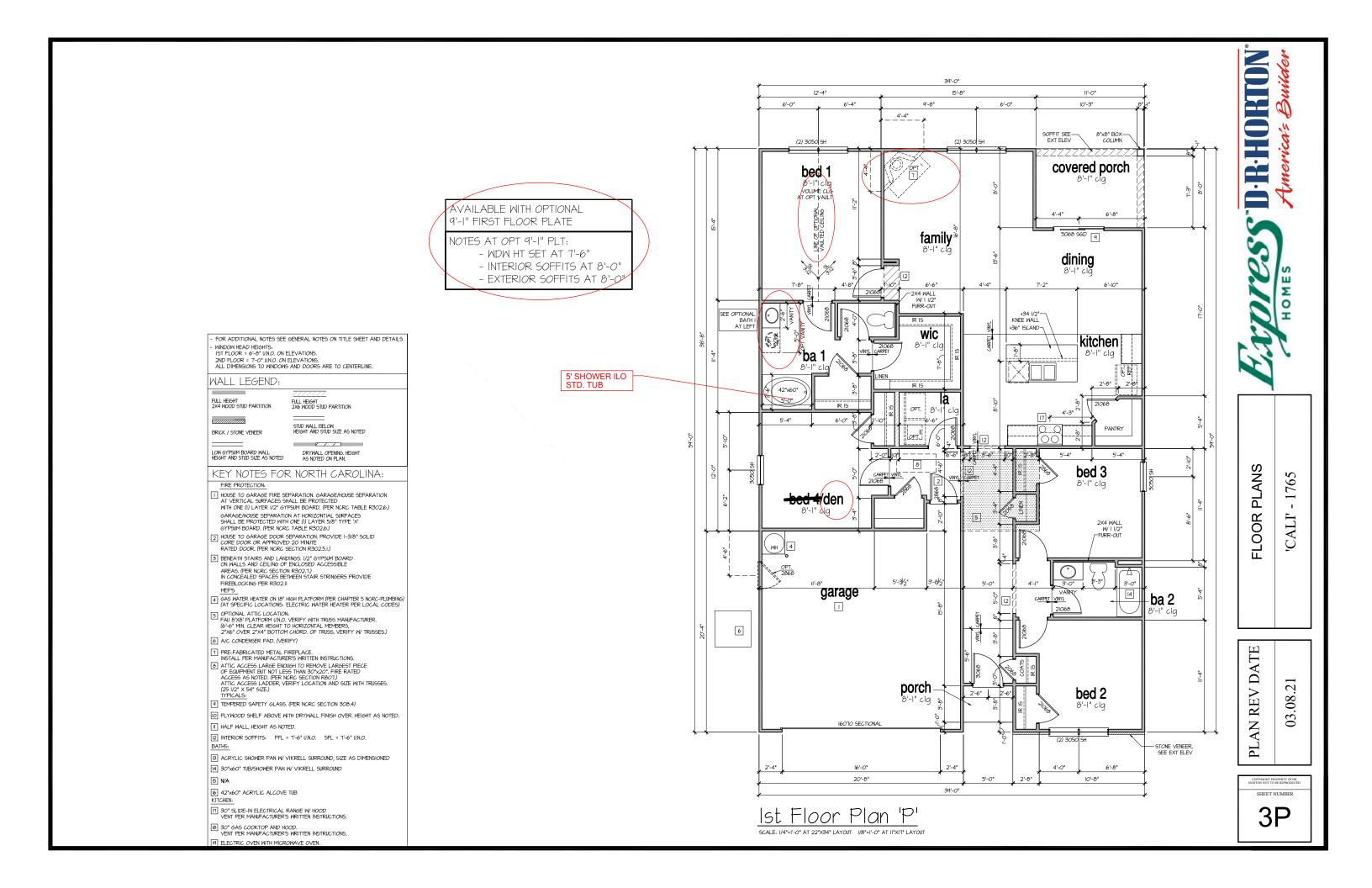
COVERSHEET

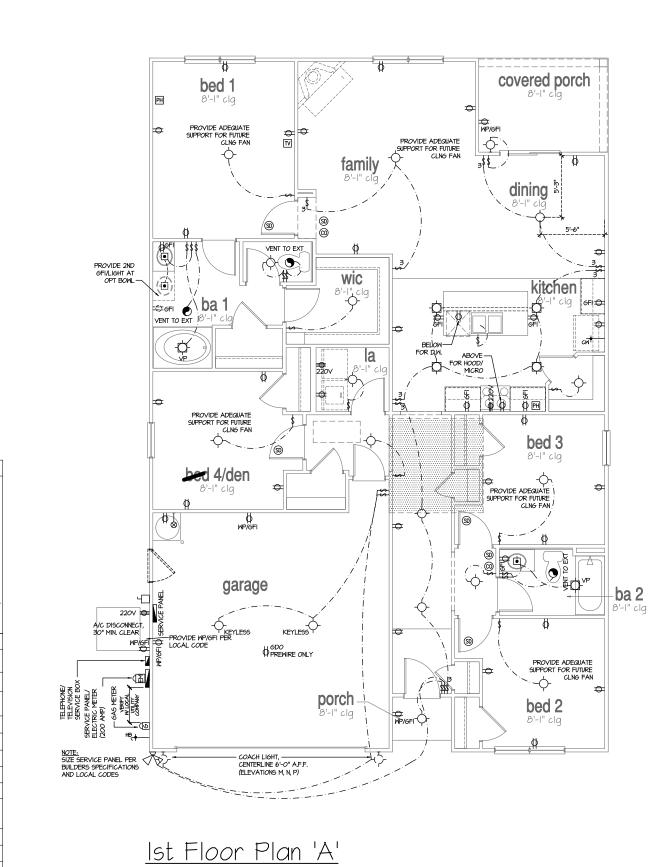
PLAN REV DATE

21 08

SHEET NUMBER CS







America's

HOMES

FLOOR PLANS

PLAN REV DATE

.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 SWITCH AS REQUIRED FOR ATTIC FURNACE PER CODE AND MANUFACTURER'S WRITTEN INSTRUCTIONS.
- I FGEND.

LLG	LND:		
ф	DUPLEX OUTLET	Φ-	FLUSH-MOUNT LED CEILING FIXTURE
ФиР/6FI	WEATHERPROOF GFI DUPLEX OUTLET	Ψ	TEST TOTAL PED OFFER TIME
Ø 6FI	GROUND-FAULT CIRCUIT-INTERRUPTER DUPLEX OUTLET	-ф-	HANGING FIXTURE
Ф	HALF-SWITCHED DUPLEX OUTLET	Ϋ́D	FLUSH-MOUNT LED CEILING FIXTURE
\$ 220∨	220 VOLT OUTLET	CFP `	(PROVIDE CEILING FAN SUPPORT)
0	REINFORCED JUNCTION BOX	-\$	2-LIGHT VANITY FIXTURE
\$	WALL SMITCH	-\$	3-LIGHT VANITY FIXTURE
\$3	THREE-WAY SWITCH		
\$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
@	GO2 DETECTOR		(PROVIDE ADEQUATE SUPPORT)
1	THERMOSTAT	∞	GAS SUPPLY WITH VALVE
PH	TELEPHONE	-	
TV	TELEVISION	—+ _{HB}	HOSE BIBB
	ELECTRIC METER	-+ _{CM}	I/4" WATER STUB OUT
	ELECTRIC PANEL	У	
<u> </u>	DISCONNECT SWITCH	l 4	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

Desid

an L	oads:		
		Live Loads	
	1.1.	Conventional 2x	20 PSF
	1.2.	Truss	20 PSF
		12.1. Attic Truss	60 PS
2.	Roof	Dead Loads	
	2.1.	Conventional 2x	10 PSF
	22.	Truse	20 PSF
3.	Snow		15 PSF
	3.1.	Importance Factor	1.0
4.		Live Loads	
	4.1.	Typ. Dwelling	40 PSF
		Sleeping Areas	
	4.3.	Decks	40 PS

4.4. Passenger Garage .. 5. Floor Dead Loads 5.3. Floor Truss ... Ultimate Design Wind Speed (3 sec. gust)
 Exposure
 Importance Factor

63 Wind Base Shear

631. VX = 632.VY = 1. Component and Cladding (in PSF)

MEAN ROOF HT.	UP TO 30'	30'1"-35'	35'1"-40'	40'1"-45'
ZONE I	16.7,-18.0	17.5,-18.9	18.2,-19.6	18 .7,-2 <i>0</i> 2
ZONE 2	16.7,-21.0	17.5,-22.1	18.2,-22.9	1 8 .7,-23.5
ZONE 3	16.7,-21.0	17.5,-22.1	18.2,-22.9	1 8 .7,-23.5
ZONE 4	182,-19.0	19.2,-20. 0	19.9,-20.7	20.4,-21.3
ZONE 5	182,-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	č
83	Importance Factor	10

8.4. Seismic Use Group

8.5. Spectral Response Acceleration

85.1. Sms = %g **8**52. Sml = %g 8.6. Seismic Base Shear

8.6.2.Vy = 8.1. Basic Structural Sustem (check one)

□ Bearing Wall
 □ Building Frame
 □ Moment Frame

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

8.8. ArchMech Components Anchored

☐ Inverted Pendulum 8.9. Lateral Design Control: Seismic

9. Assumed Soil Bearing Capacity Wind 🔯



STRUCTURAL PLANS PREPARED FOR:

CALI

PROJECT ADDRESS

OWNER: DR Horton, Inc. 8001 Arrowridae Blvd. Charlotte, NC 28273

DESIGNER: GMD Design Group 102 Fountain Brook Circle

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, P.C. before construction begins.

PLAN ABBREVIATIONS:

ΑB	ANCHOR BOLT	Þ	PRESSURE TREATED
ΑFF	ABOVE FINISHED FLOOR	₽5	ROOF SUPPORT
ઢ	CEILING JOIST	5C	STUD COLUMN
CLR	CLEAR	ಖ	SINGLE JOIST
DJ	DOUBLE JOIST	SPF	SPRUCE PINE FIR
D9P	DOUBLE STUD POCKET	551	SIMPSON STRONG-TIE
ш	EACH END	SYP	SOUTHERN YELLOW PINE
ᆵ	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
P5I	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 plain revisions based on toof truss and floor joist layouts shall be noted in the revision list, indicating the date the layouts were provided. Should any discrepancies become apparent, the contractor shall notify SUMMIT immediately.

SHEET LIST:

REVISION LIST:

Date

Revision

Project No.

9.7.18 19583

2 112Ø18 19583R

3 12.14.18 19583R2

4 3.12.19 21790

5 5.1.19 2179ØR

6 3.8.21 TØØ54

8 5321 T0054

9 6/3/2021 T0054

3 l6 21 T0054

Sheet No.	Des c ription	
CSI	Cover Sheet, Specifications, Revisions	
SI.Øm	Monolithic Slab Foundation	
S1.Øs	Stem Wall Foundati o n	
51.Øc	Crawl Space Foundation	
51.Øb	Basement Foundation	
52.Ø	Basement Plan	
53.Ø	First Floor Plan	
54.Ø	Second Floor Plan	
55.Ø	Roof Framing Plan	

DR HORTON PROJECT SIGN-OFF:

Mana g er	Signatur e	
Operations		
Operations System		
Operations Product Develo p ment		

summit

GENERAL STRUCTURAL NOTES:

- NETAL DIRECTURED. NOTES: The design professional whose seal appears on these drawings is the structural engineer of record (SER) for this project. The SER bears the responsibility of the primary structural elements and the performance of this structure. No other party may revise alter, or delete any structural aspects of these construction documents without written permission of SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT
- whall be considered the same entity.

 The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction to stabilize the structure.
- The SER is not responsible for construction sequences, methods or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents
- should any non-conformities occur.

 Any structural elements or details not fully developed on the construction drawings shall be completed under the direction of a licensed professional engineer. These shop drawings shall be submitted to SUMMIT for review before any construction begins. The shop drawings will be reviewed for overall compliance as it relates to the structural design of this project. Verification of
- the shop drawings for dimensions, or for actual field conditions, is not the responsibility of the SER or SUMMIT.

 Verification of assumed field conditions is not the responsibility of the SER. The contractor shall verify the field conditions for accuracy and report any discrepancies to SUMMIT before construction begins.

 The SER is not responsible for any secondary structural elements
- or non-structural elements, except for the elements specifically
- noted on the structural drawings.

 This structure and all construction shall conform to all
- applicable sections of the international residential code. This structure and all construction shall conform to all applicable sections of local building codes. All structural assembles are to meet or exceed to requirements of the current local building code.

FOUNDATIONS:

The structural engineer has not performed a subsurface responsibility of the owner or the contractor. Should any adverse soil condition be encountered the SER must be

- The bottom of all footings shall extend below the frost line for 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 factings 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:
 L. 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
- 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 Dl.I. Electrodes for shop and field welding shall be class ETOXX. All welding shall be performed by a certified welder per the above

- NUMBLE:
 Concrete shall have a normal weight aggregate and a minimum compressive strength ("p.) at 28 days of 2000 ps, 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 **S**labs: 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 302.1R-96: "Guide for Concrete Slab and Slab Construction".
- The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported litions 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" OC. 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 einforcing steel may not extend through a control joint. einforcing steel may extend through a saw cut joint.
- All welded wire fabric (WWF.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The WWF, shall be securely supported during the concrete pour.

- CONCRETE REINFORCEMENT:
 1. Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased
- abrasion resistance, and residual strength.
 Fibernesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefit materials and specifically manufactured for use as concrete secondary reinforcement. Application of fibermesh per cubic yard of concrete shall equal
- Application of 10% by volume (15 pounds per cubic yard)

 Fibermesh shall comply with 46TM cilib, any local building code
 requirements, and shall meet or exceed the current industry
- steel reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.
- ASTM A615, grade 66. 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 corner bars with the same size/epacing 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.

- 9. Where reinforcing dowels are required , they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters into the footing.

 10. Where reinforcing steel is required vertically, dowels shall be
- provided unless otherwise noted. WOOD FRAMING: 2D FRAMING:
 Solid saw 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 Southm-Spruce Pine (SYF) 12.
- LVL or PSL engineered wood shall have the following minimum
- design values: 2.1. E = 1,900,000 psi 22. Fb = 2600 ps
- 23 Ev = 285 ps
- Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-Ib. All other moisture exposed wood shall be treated in accordance with AWPA standard C-2
- with AWPA standard C-2 Nails shall be common wire nails unless otherwise nated. Lag screws shall conform to ANSI/ASME standard B182.1-1981. Lead holes for lag screws shall be in accordance with NDS specifications
- All beams shall have full bearing on supporting framing members unless otherwise noted. Exterior and load bearing stud walls are to be 2x4 SYP *2 * 16" OC. unless otherwise noted. Studs shall be continuous from the sole plate to the double top plate. Studs shall only be
- discontinuous at headers for window/door openings. A minimum of one king stud shall be placed at each end of the header. King studs shall be continuous. Individual studs forming a column shall be attached with one lod nall & 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
- 10. Four and five ply beams shall be bolted together with (2) rows of 1/2" diameter through bolts staggered 16" O.C. unless

WOOD TRUSSES:

The wood trues 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

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 Wa

Added OX-15 Bracing Plan

Added SPF note option

updated OX-15 bracing Table for Framing

- 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 T-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 Wood Trusses."
- The truss manufacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-91). This bracing, both temporary and permanent, shall be shown on the shop drawings. Also, the shop drawings shall show the required attachments 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.

- UDOD STRUCTURAL PANELS:

 1. Fabrication and placement of structural wood sheathing shall be in accordance with the APA Design/Construction Guid "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.
- ROOI sheathing shall be AFFA rated sheathing exposure for 7. Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC nail at 6"orc at panel edges and at 12"orc 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 alips 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 ingherk nail at 6 "Or a panel edges and at 12" of 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 shearing. Use suitable edde rating consistent with the framing spacing. We suitable edge support by use of T4G plywood or lumber blocking unless otherwise noted. Panel and joints shall occur over framing. Apply building paper over the sheathing as required by the
- state Building Code. Sheathing shall have a 1/8" gap at panel ends and edges as 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 of the APA.

 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.



PRIMER TO COVER SHEET FOR A CONFILER LIST OF PRIVISIONS

CSI

FOUNDATION NOTES:

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS
- AMENDMENTS.

 STRUCTURAL CONCRETE TO BE F. = 3000 PG, 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 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 MASONRY.
- 6. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS PRECIFIED IN SECTION R4041 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
 PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO CUTLET 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
- CRAIL SPACE TO BE GRADED LEVEL AND CLEARED OF ALL DEBRIS CRAIL SPACE TO BE GRAVED LEVEL, AND CLEARED OF ALL DEBMS.
 FOUNDATION ANCHORAGE SHALL BE CONSTRICTED PER THE 2018 NORTH
 CAROLINA RESIDENTIAL CODE SECTION RADSJ.6 MINIMUM 12" DIA BOLTS
 SPACED AT 6"-0" ON CENTER WITH A "I" MINIMUM EMBEDMENT INTO MASONRY. OR CONCRETE. ANCHOR BOLTS SHALL BE 12" FROM THE BILD OF EACH PLATE SECTION MINIMUM (2) ANCHOR BOLTS FER PLATE SECTION ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.

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

- 10. ALL PIERS TO BE 16"X16" MASONRY AND ALL PILASTERS TO BE 8"X16"
- MASONEY, TYPICAL (UNO)
 WALL FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN.
- 12. A FOUNDATION EXCAYATION OBSERVATION SHOULD BE CONDUCTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER OR HIS QUALIFIED REPRESENTATIVE. IF ISOLATED AREAS OF YIELDING MATERIALS AND/OR POTENTIALLY EXPANSIVE SOILS ARE OBSERVED IN THE FOOTING. EXCAVATIONS AT THE TIME OF CONSTRUCTION, SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. MUST BE PROVIDED THE OPPORTUNITY TO REVIEW THE FOOTING DESIGN PRIOR TO CONCRETE PLACEMENT.

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 R602.108 AND FIGURES R602.1065, R602.107.
R602.102(1) AND R602.102(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 R4051

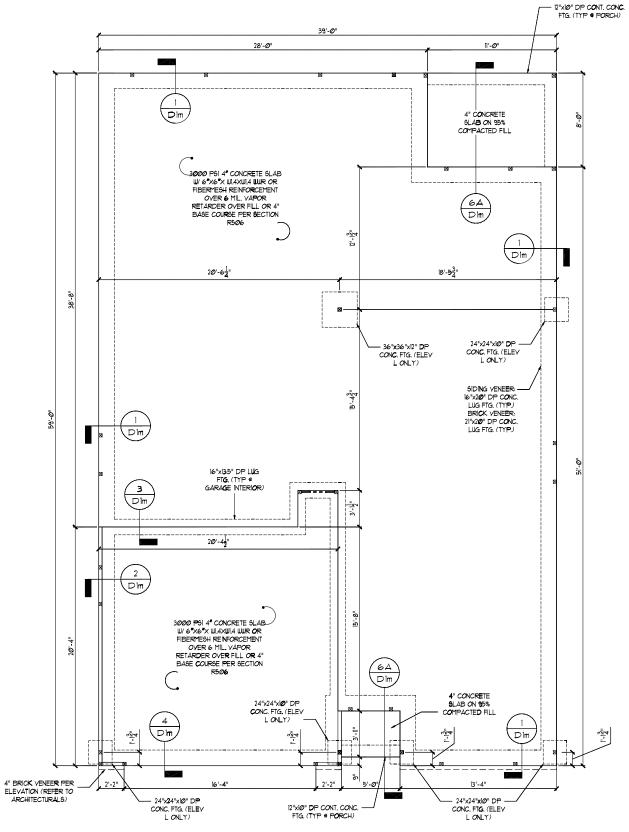
THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY DR HORTON COMPLETED REVISED ON 3632021. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY 4 TESTING, P.C. F. ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS DEPORT TO CANSTRUCTURAL SUMMIT BUSINEERING. LABORATORY 4 PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LIGHTED 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 SEQUENCES, PROCEDURES OR SAFETT FRECAUTIONS.
ANY DEVIATIONS OR DISCREPANCIES ON PLANS ARE TO
BE BROUGHT TO THE IMMEDIATE ATTENTION OF
SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

MONOLITHIC SLAB FOUNDATION PLAN



ALL ELEVATIONS



Idatí ₩ Ş Slab **Project:** Call - LH Monolithic



CALL 2504 WH-F-S' SMAN BY. A

REFER TO COVER SHEET FOR A

\$1.0m

REQUIRED BRACED WALL PANEL CONNECTIONS				
			REQUIRED	CONNECTION
METHOD	MATERIAL	MIN. THICKNESS	PANEL EDGES	# INTERMEDIATE SUPPORTS
C \$ -W6P	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS ⊕ 6" O.C.	6d COMMON NAIL S # 12" O.C.
GB	GYPSUM BOARD	1/2"	5d COOLER NAILS** 9 T O.C.	5d COOLER NAILS** # 7" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS ⊕ 6" O.C.	6d COMMON NAIL 6 9 12" O.C.
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.6.4	PER FIGURE R602.10.6.4

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.

- RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAN

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

 RESIST ALL BORD IN THE DESIGN ARE AS FOLLOUS:
 MICROLLAM (LVL), F. 2600 PS), F. 228 PS), F. 218 PS), F. 218 PS)
 PARALLAM (PS). F. 22900 PS), F. 2290 PS), F. 215 PS)

 ALL LIBOD TEMPORERS SHALL BE 12 STP1/2 SFF WILESS NOTED ON PLAN, ALL STUD
 COLUMNS AND JOISTS SHALL BE 12 STP1/2 SFF (INO).

 ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2X4 12 SYP1/2 SFF STUD COLUMN AT
 ACCURATE ON THE PROPERTY OF THE
- EACH BUT UNLESS NOTED OTHERWISE.

 ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A615
 AND SHALL HAVE A MINIMUM COVER OF 3".
- EQUINDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH FOUNDATION ARCHORAGE SHALL BE CONSTRUID FER THE 200 NORTH
 CAROLINA RESIDENTIAL CODE SECTION REGISLE, 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 FER PLATE SECTION, ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE. CONTRACTOR TO PROVIDED LOOKOUTS WHEN CELLING JOIGTS SPAN FERPENDICULAR TO RAFTERS.
- PENTENDICULAR TO RAPIES 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/D3f. MIN. EDGE DISTANCE SHALL BE 2"
- AND (2) BOLTS SHALL BE LOCATED MINIMUM 6" FROM EACH END OF THE BEAM ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 STP "129FF" 12, DROPPED FOR NON-LOAD BEARING HEADERS EXCEEDING 8'-0" IN WIDTH AND/OR WITH MORE THAN 2'-0" OF CRIPPLE WALL ABOVE, 6HALL BE (2) FLAT 2x4 SYP 12/SPF 12, DROPPED. (UNLESS NOTED OTHERWISE)

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

NOTE:

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

JOIST & BEAM SIZES SHOWN ARE MINIMUMS, BUILDER MAY

INSTALL ANY REQUIRED HOLDOWNS PER SECTION R602.108 AND FIGURES R602.1065, R602.10.1, R602.108(1) AND R602.108(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.

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHIECTURAL PLANS PROVIDED BY DR HORTON

COMPLETED/REVISED ON 3/8/2021. IT IS THE RESPONSIBILITY OF THE
CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY 4 TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE

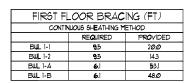
STRUCTURAL MEMBERS ONLY

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

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN

SCALE: I/4"=1"-0" ON 22"x34" OR I/8"=1"-0" ON II"x17



FIRST FLOOR BRACING (FT) CONTINUOUS SHEATHING METHOD

9,5

P.III 1-1

BWL 1-2

REQUIRED PROVIDED

200

14.3

BWL 1-2 ---

BWL 1-2

		\		
	ROOF TRUBSES PI			
(2) (2)			A	
	ROOF TRUSSES PER MANUF.			
	ROOF TRUSSES PER MANUF. (2) (2) 2X/2 CONT HEADER UV (2) S.C. EACH BEARING FRAME PORTAL WALL PER DETAIL V/DIF	ROOF TRUSSES PER MANUF. 2) 228 PT DROPPED HEADER A ELEVATION AM		BWL 1-2
	BUL I-A	BUL 1-8		

DROPPED

HEADER

FLEV MNP ONLY: MIN 4" PT POSTS

CSIG STRAPS AND ATTACH POSTS TO FOUNDATION W/ SST ABA44 POST BASE OR EQUIV. (TYP)

> (2) 2XIØ PT DROPPED HEADER (MIN., TYP.)

ELEV ABF: B

Δ

ROOF TRUSSES PER MANUF.

____A

② B ELEV F

BUL 1-B

ROOF TRUSSES

PER MANUF.

ELEVATION BEND

OR COL. RATED FOR 2000 (MIN, TY ATTACH POSTS TO HEADER W/ SST

Α

FI FVATION MNP: ROOF TRUSSES PER MANUE

ELEV A.B.F.: GIRDER TRUSS PER MANUF. W/ (3) S.C.E.E.

GIRDER TRUSS PER MANUF. (CONT.)

ROOF TRUSSES PER MANUF.

FLEV B.P. (2) 2X12 CONT HEADER III/ (2) SC. EACH BEARING

FRAME PORTAL WALL PER DETAIL I/DI

3 ELEV FN: (2) LTB "XII.815" LVL/L9L CONT. HEADER W/ (2) S.C. EACH BEARING

BUI I-∆

Α

HEADER SCHEDULE				
TAG	SIZE	JACKS (EACH END)		
A	(2) 2x6	(1)		
æ	(2) 2x8	(2)		
U	(2) 2xlØ	(2)		
ā	(2) 2xl2	(2)		
E	(2) 9-1/4" L5L/LVL	(3)		
F	(3) 2x6	(1)		
G	(3) 2x8	(2)		
#	(3) 2xlØ	(2)		
	(3) 2×12	(2)		

HEADER SIZES SHOUN 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	OPPENING SIZE	
0	L3x3x1/4"	LESS THAN 6'-0"	
2	L 5 x3x1/4"	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

16T & 2ND FLOOR LOAD BEARING STUDS: 2x4 STUDS @ 16" O.C. OR 2x6 STUDS ● 24" O.C. 19T 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" QC OR 2x6 STUDS # 16" QC 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 REQUIREMENTS				
OPENING WIDTH	KING\$ (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				
APPLI TO PORTAL	FRAILED OLEVINGS			

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED PER SECTION R60210 OF THE 2018 NC RESIDENTIAL CODE.
- WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO BO MPH.
 REFER TO ARCHITECTURAL PLAN FOR DOORNWINDOW OPENING

- SIZES.

 3. BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH IRC TABLE R602.10.4.

 4. ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED WE 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). FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE PHEATHED ON ALL SHEATHABLE SUFFACES 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.

 9. 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 R602.1099 OF THE 2015 IRC.
 BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.8
- BRACED IIIALL PANEL CONNECTIONS TO POOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.82 AND FIGURES R602.10.8(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 R6@2.10.6.4 (UNO)
- 16 ON SCHEMATIC SHADED WALLS INDICATE BRACED WALL PANELS

GB = GYPSUM BOARD WSP = WOOD STRUCTURAL PANEL





 $\overline{\Omega}$ Ø 宀 90 I



CALL 2564 W-F-8' SMAN BY. A HEGRED BY: BCF

PEFER TO COVER SHEET FOR A

S3.0

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL, PLANS PROVIDED BY <u>DR HORTON</u>
COMPLETED/REVISED ON 369/2021 IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SWIMIT ENGINEERING, LABORATORY (1 TESTING, P.C., IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY (1 TESTING, PC. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

NOTE: 1ST PLY OF ALL SHOWN GIRDER TRUSSES TO ALIGN WITH INSIDE FACE OF WALL (TYP, UNO)

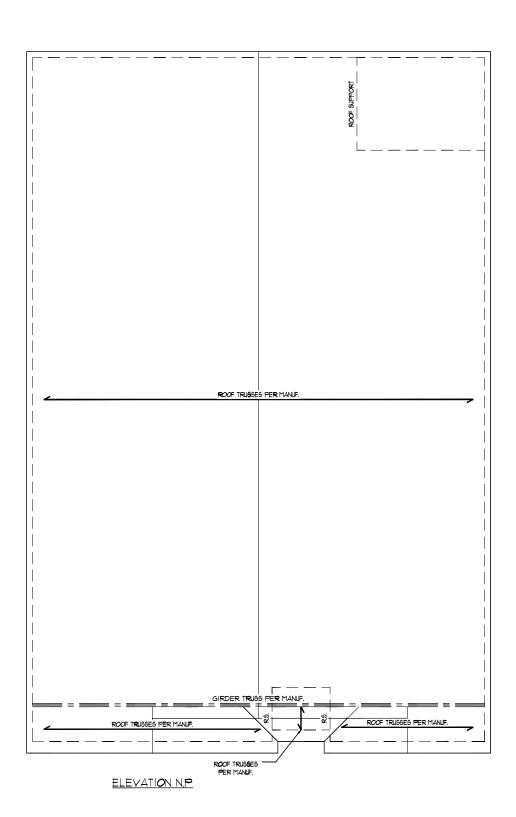
NOTE: ROOF TRUSSES SHALL BE SPACE TO SUPPORT FALSE FRAMED DORMER WALLS (TYP, UNO)

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"







Plan Framing

STRUCTURAL MEMBERS CALLY DATE-00000 CCALE 2004 INT-F-07 Bill INT-F-07

DRAIN BY: JY

PERFOR TO COVER SHEET FOR A CONTILETE LIST OF PEYMONS

Applicable Building Codes:

• 2018 North Carolina Residential Building Code with All Local Amendments

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

an ∟	oaas:		
٦.	Roof	Live Loads	
	1.1.	Conventional 2x	20 PS
	1.2.		
		12.1. Attic Truss	60 PS
2.	Roof	Dead Loads	
	2.1.	Conventional 2x	IØ PSF
	2.2.	Trus 6	20 PS
3.	Snow		15 PSF
	3.1.	Importance Factor	lø
4.	Floor	Live Loads	
	4.1.	Typ. Dwelling	40 PS
		Sleeping Areas	
		Decks	
		Passenger Garage	
5.		Dead Loads	
	5.1.	Conventional 2x	
	5.2.	I-Joist	15 PSF
		Floor Truss	
6.	Ultima	te Wind Speed (3 sec. gust)	PER F

Importance Factor 6.3. Wind Base Shear 6.3.l. Vx =

6.l. Exposure

٦.	Component	and	Cladding	(in	PSF)

MEAN ROOF HT.	UP T O 30'	3 Ø' "-35'	35' "-40'	40'1"-45'
ZONE I	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 Ø .7	20.4,-21.3
ZONE 5	18.2,-24.Ø	19.2,-25.2	19.9,-26.1	20.4,-26.9

8 Seismic

	C	
8.1.	Site Class	D
8.2.	Design Category	С
	Importance Factor	Ø
8.4.	Seismic Use Group	I

8.5. Spectral Response Acceleration 85.1. Sms = %g 85.2. Sml = %g 8.6. Seismic Base Shear

861.Vx =

8.1. 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 🗆 llind 🖂

Assumed Soil Bearing Capacity ...



STRUCTURAL PLANS PREPARED FOR

STANDARD DETAILS

PROJECT ADDRESS:

DR Horton Carolinas Division

ARCHITECT/DESIGNER

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

PLAN ABBREVIATIONS:

AB	ANCHOR BOLT	PT	PRESSURE TREATED
AFF	ABOVE FINISHED FLOOR	RS	ROOF SUPPORT
ÇJ	CEILING JOIST	5C	STUD COLUMN
CLR	CLEAR	SJ	SINGLE JOIST
DJ	DOUBLE JOIST	SPF	SPRUCE PINE FIR
D S P	DOUBLE STUD POCKET	SST	SIMPSON STRONG-TIE
ΕE	EACH END	SYP	SOUTHERN YELLOW PINE
ΕW	EACH WAY	TJ	TRIPLE JOIST
NTS	NOT TO SCALE	TSP	TRIPLE STUD POCKET
oс	ON CENTER	TYP	TYPICAL
P S F	POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
P6I	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, 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 **5U**1111 immediately.

SHEET LIST:

REVISION LIST:

Date

FIII

T |2 |T

3 2.15.18

4 228.18

5 12.19.18

6 2.19.19

8 3.6.19

9 3220

Project No.

Revision

iheet Na.	Description
CSI	Cover Sheet, Specifications, Revisions
D1m	Monolithic Slab Foundation Details
Dis	Stem Wall Foundation Details
Dlc	Crawl Space Foundation Details
Dlb	Basement Foundation Details
DIf	Framing Details

DR HORTON PROJECT SIGN-OFF: Operations Operations System

Operations Product Development

TH CAROUS SUMMIT SUMMIT Engineering, Laboratory & Testing, P.C.

SÜMMIT

PROJECT:

Standard Details

Coversheet



DATE: 3/2/2 8CALE: 22x34 V4"+1"-8" lbt1 V8"+1"-8" PROJECT 1 P-19Ø1-1Ø DRAWN BY: LAG

CHECKED BY: WAJ

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 appects of these construction documents without written permission of SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT
- shall be considered the same entity.

 The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction
- to stabilize the structure.

 The SER is not responsible for construction sequences, methods, or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents
- should any non-conformities occur.

 Any structural elements or details not fully developed on the construction drawings shall be completed under the direction of a licensed professional engineer. These shop drawings shall be submitted to SUMMIT for review before any construction begins. The shop drawings will be reviewed for overall compliance as it relates to the structural design of this project. Verification of the shop drawings for dimensions, or for actual field conditions,
- the shop drawings for dimensions, or for actual field conditions, is not the responsibility of the SER or SUMIT. 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.
- 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:

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

- 2. The bottom of all footings shall extend below the frost line for the region in which the structure is to be constructed. However, the bottom of all footings shall be a minimum of 12" below grade. Any fill shall be placed under the direction or recomme
- of a licensed professional engineer.
 The resulting earl shall be compacted to a minimum of 95%
- maximum dry density.

 5. Excavations of footings shall be lined temporarily with a 6 mill polyetylene memorane 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_a) of 36 kg unless
- otherwise noted
- Welding shall conform to the latest edition of the American weraing shall common to the latest edition of the American Welding Society's Structural Welding Code AUS DIJ. Electrodes for shop and field welding shall be class ETØXX. All welding shall be performed by a certified welder per the above

- Number Lie:
 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 urreported conditions not in accordance with the above assumptions. Control or solu cut joints shall be spaced in interior slabs-on-grade at a maximum of 15-01 O.C. and in exterior
 - slabs-on-grade at a maximum of $|\mathcal{O}|$ 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 state has been has been intered.

 9. Reinforcing steel may 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:

 I. Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction lowered water migration, an increase in impact capacity, increased abrasion resistance, and residual strength.
- Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.
- Application of fibermesh per cubic yard of concrete shall equal a minimum of 0.1% by volume (15 pounds per cubic yard) Fibermesh shall comply with ASTM CIII6, any local building code requirements, and shall meet or exceed the current industry
- Steel reinforcing bars shall be new billet steel conforming to
- of the inferior of the state of 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.

- 9. Where reinforcing dowels are required, they shall be equivalent in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters
- into the Footing.

 10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise nated. 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
- LVL or PSL engineered wood shall have the following minimum sign values: 2.1. E = 1,900,000 psi

 - 2.2. F_b = 2600 psi 2.3. F_v = 285 psi
- 2.4.Fc = 100 psi 1.4.1°C incorption.

 Who in contract with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15. All other moisture exposed wood shall be treated in accordance with AWPA standard C-2.
- Nails shall be common wire nails unless otherwise noted.

 Lag screws shall confrom to ANSI/ASME standard Bi82.1-1981.

 Lead holes for lag screws shall be in accordance with NDS specification.
- 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 $^{\circ}$ 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 stude shall be continuous, individual stude forming a column shall be attached with one lod nail 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) lod nails e
- 10. Flitch beams, 4-ply beams and 3-ply side loaded beams shall be
- bolted together with (2) rous of 1/2" diameter through boilts 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:

The wood truss manufacturer/fabricator is responsible for the design of the wood truspes. 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.

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

stem wall and crawl space foundations

Revised garage door detail, NC only

Added high-wind foundation details

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

Corrected dimensions at perimeter footings

Revised stem wall insulation note

Revised per 2018 NCRC

sheathing on wall sections.

Added tall turndown detail

options with basement. Revised deck options with

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

 (ASCE 1-05), 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."
- The truss manufacturer shall provide adequate bracing Institute manufacture is an incovince account of the information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-91). This bracing, both temporary and permanent, shall be shown on the shop drawings.

 Also, the shop drawings shall show the required attachments for
- the trusses.

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

EXTERIOR WOOD FRAMED DECKS:

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

3. 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

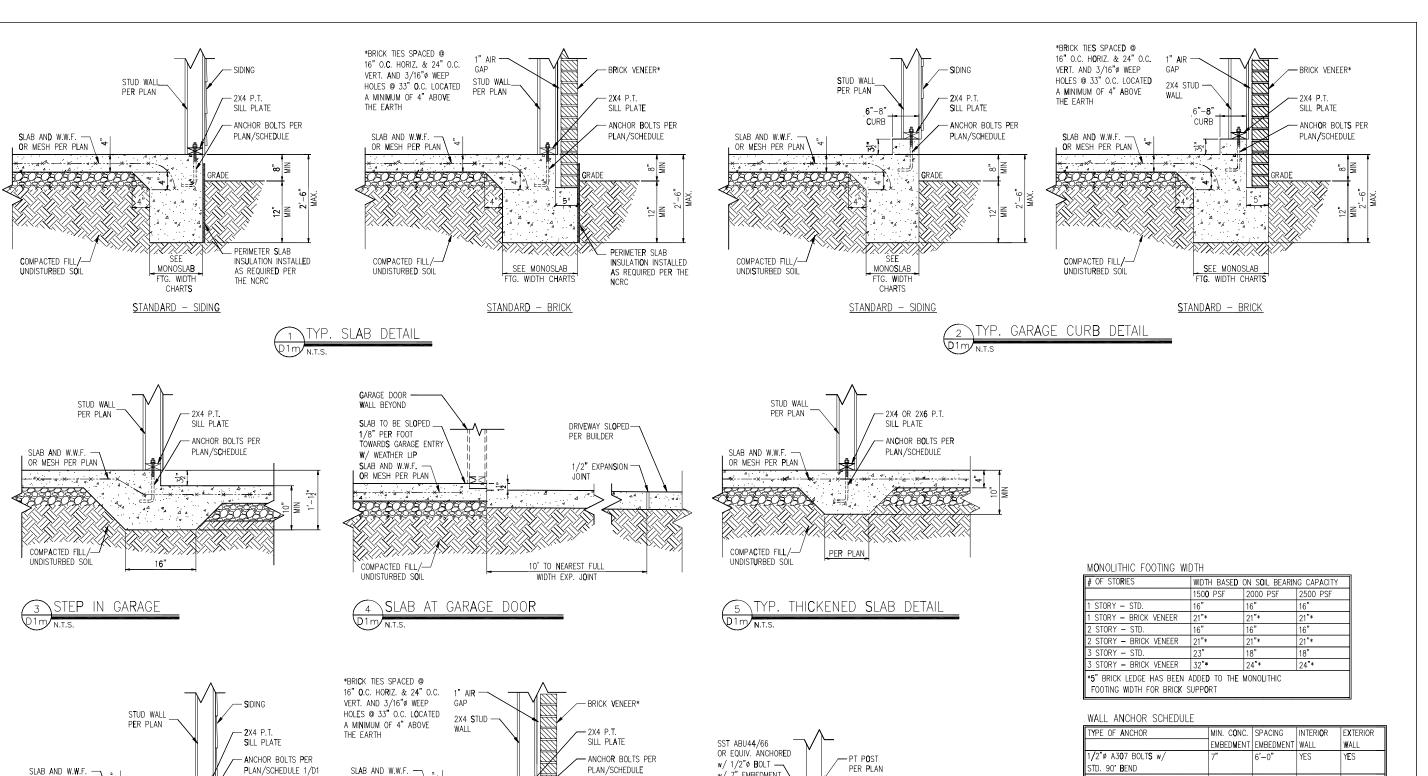
- information. Sheathing shall be applied with the long direction perpendicular to framing, unless noted otherwise. Roof sheathing shall be APA rated sheathing exposure I or 2. Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-2d CC nail at 6"o/c 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
- blacking 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)-bd CC ringshark nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of T4G plywood or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the state Building Code.
- 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:

 1. 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. 3. 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



OR MESH PER PLAN

COMPACTED FILL/-

UNDISTURBED SOIL

OR MESH PER PLAN

COMPACTED FILL/-

UNDISTURBED SOIL

PATIO SLAB DETAIL

-∠PATIO SLAB4

SEE

MONOSI AF

FTG WIDTH

CHARTS

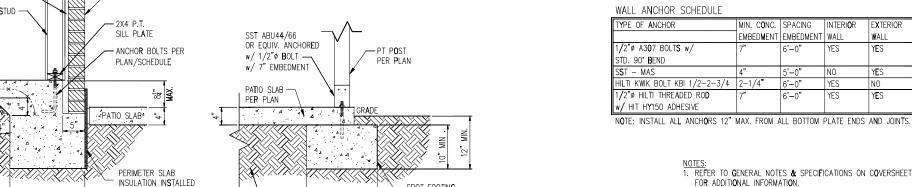
STANDARD - SIDING

- PERIMETER SLAB

AS REQUIRED PER

THE NCRC

I**n**sulati**o**n inst**a**lled



PER PLAN

6A COVERED PATIO DETAIL

- COMPACTED FILL/

UNDISTURBED SÓIL

AS REQUIRED PER

THE NCRC

SEE MONOSLAB

FTG. WIDTH CHARTS

STANDARD - BRICK

- SPOT FOOTING

OR CONTINUOUS

LUG FOOTING PER PLAN

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

YES

NO

- 4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR BRACED WALL PANEL LAYOUT, DIMENSIONS, ATTACHMENT AND CONNECTIONS
- 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

Foundation

Slab

SÜMMIT

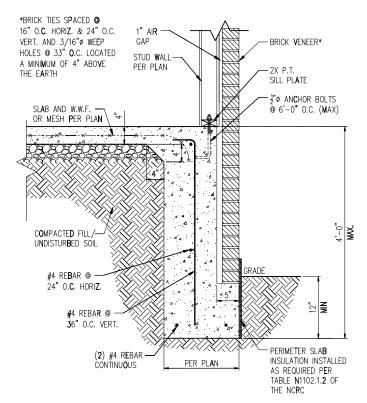
SUMMIT &

SUMMIT Engineering, Laboratory & Testing, P.C.

DATE: 3/2/2 8CALE: 27x34 1/4"+1"-**8"** 18x1 1/8":1"-**8"** PROJECT & P-19Ø1-1ØR DRAWN BY: LAG CHECKED BY: WAJ

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

Dlm



- 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





Details Foundation Slab PROJECT: Standard Details Monolithic (



STRUCTURAL MEMBERS ONLY

DATE: 3/2/28 8CALE: 22x34 1/4"+1-**6"** lbt1 1/8"+1-**6"** PROJECT 4 P-19Ø1-1Ø DRAWN BY: LAG

CHECKED BY: WAJ

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D2m

SÜMMIT



Wind

Ę Ę Details Foundation Slab PROJECT: Standard Details Monolithic:

TH CARO USBAL \$/2 STRUCTURAL MEMBERS ONL

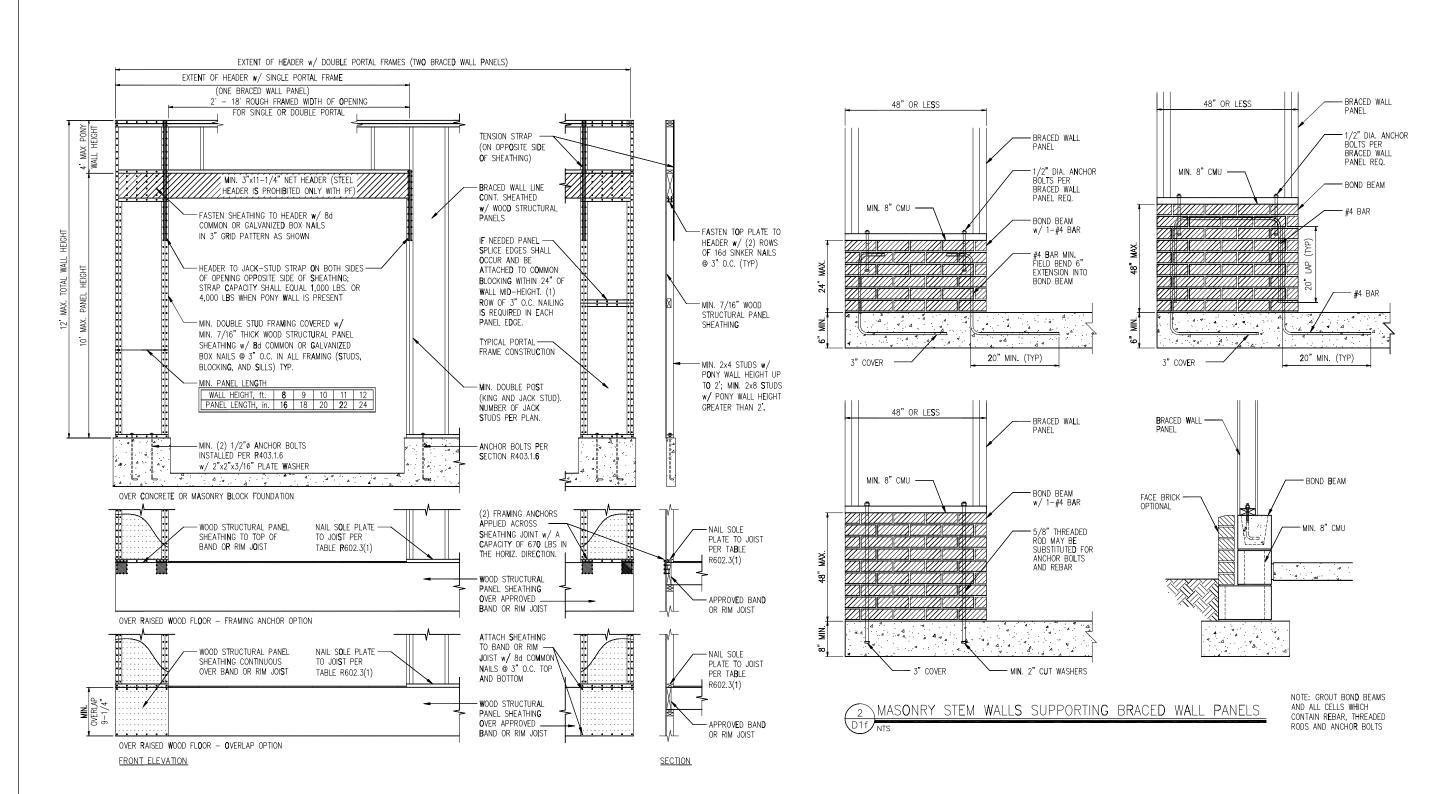
DATE: 3/2/2 8CALE: 27x34 1/4"+1"-**8"** 18x1 1/8":1"-**8"** PROJECT 4 P-19Ø1-1Ø

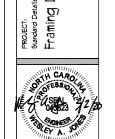
DRAWN BY: LAG CHECKED BY: WAJ

ZONE. INSTALL PER TABLE N1102.1.2 OF THE NCRC

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D3m





STRUCTURAL MEMBERS ONLY

Detai

SÜMMIT

SUMMIT Engineering, Laboratory & Testing, P.C.

CLIENT:
DR Horton Carolina Divi
8001 Arrowridge Blvd.
Charlotte, NC 20213

DRAUMS

DATE: 32/30

SCALE: 22/24 14**1*6**
FROJECT + P-18/2T-6/R

DRAUM BY, LAG

CHECKED BY: UAJ

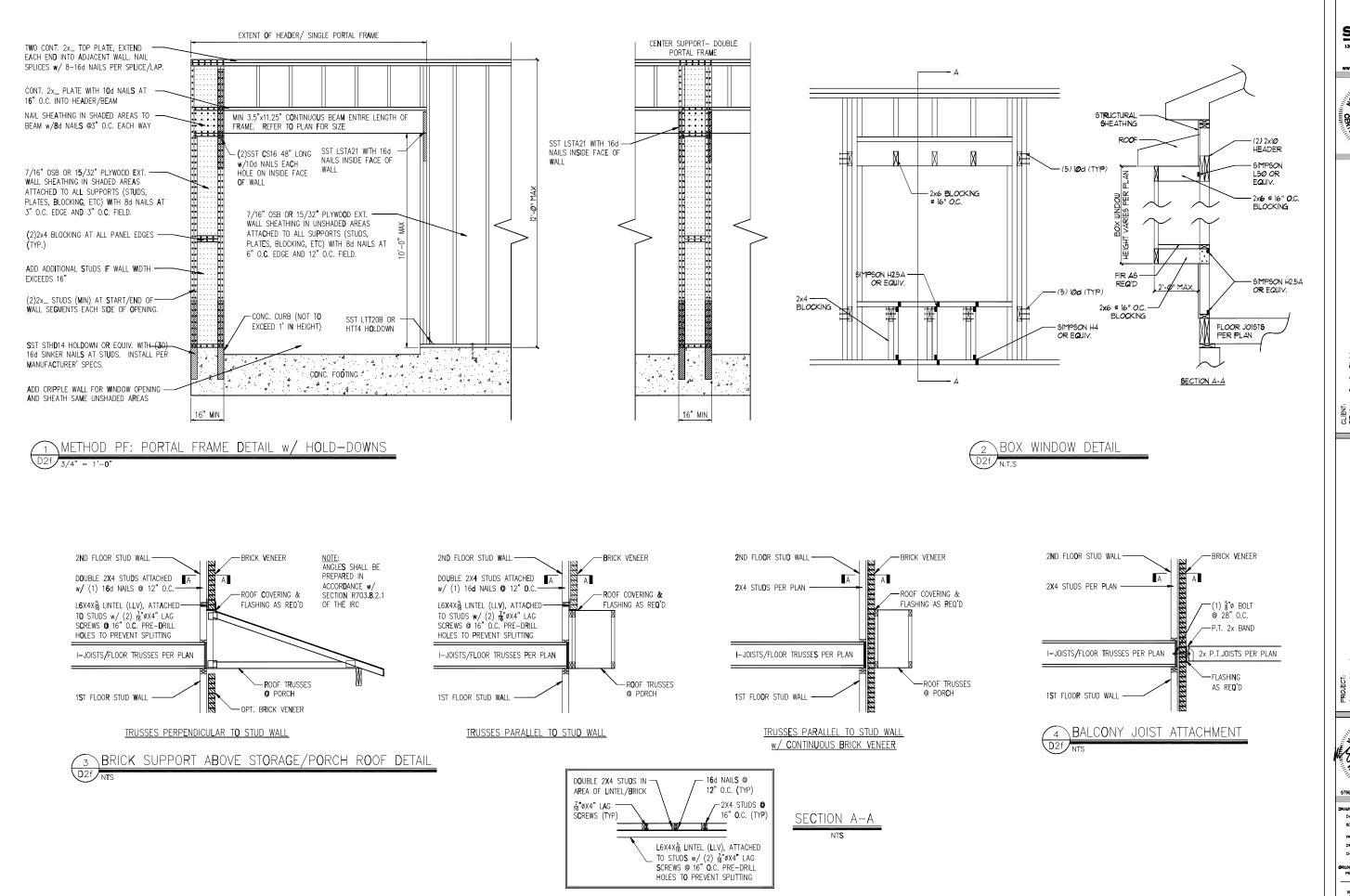
CRIGINAL INFORMATION
PROJECT P DATE
1/30

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

Dlf

METHOD PF: PORTAL FRAME DETAIL

D1f 3/8" = 1'-0"



SUMMIT





Detaí PROJECT: Standard Details Framing

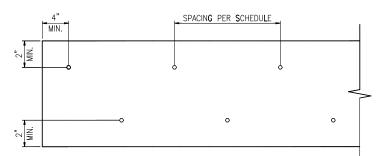


DATE: 3/2/2 8CALE: 22x34 1/4"∗T-**8"** bet 1/8"∗T-**8"** PROJECT & P-19Ø1-1ØR DRAWN BY: LAG

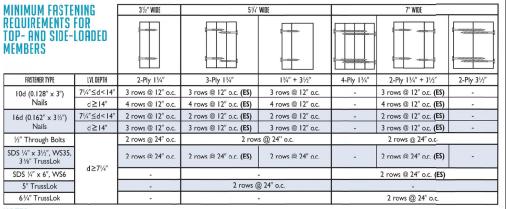
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REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D2f



ELEVATION VIEW



NOTES:

- I.All fasteners must meet the minimum requirements in the table above. Side-loaded multiple-ply members must meet the minimum fastening and side-loading capacity
- requirements given on page 48.

 2. Minimum fastening requirements for depths less than 7½" require special consideration. Please contact your technical representative.

(8) 1"Ø BOLTS INTO LONG ANGLE

LEG AND (4) 1"ø

BOLTS INTO EACH

SHORT ANGLE LEG

LVL BLOCKING

EACH SIDE OF WEB

MIN. 3" EXTENSION

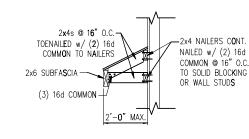
BEYOND ANGLE

- 3. Three general rules for staggering or offsetting for a certain fastener schedule:

 (1) if staggering or offsetting is not referenced, then none is required;

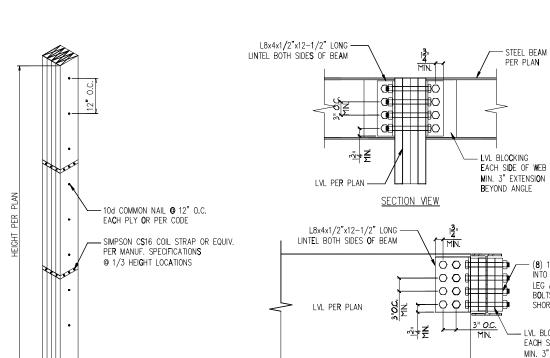
 (2) if staggering is referenced, ther fasteners installed in adjacent rows on the front
 - side are to be staggered up to one-hall the o.c. spacing, but maintaining the fastene-clearances above and

 (3) if "ES" is referenced, then the fastener schedule must be repeated on each side,
 - with the fasteners on the back side offset up to one-half the o.c. spacing of the front side (whether or not it is staggered).





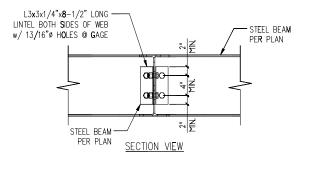
MULTI-PLY BEAM CONNECTION DETAIL

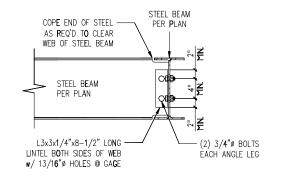


MULTI-PLY STUD CONNECTION DETAIL



ELEVATION VIEW





ELEVATION VIEW





SÜMMIT

PROJECT: Standard Details Framing Details



DATE: 3/2/2 8CALE: 22x34 1/4"∗1"-**6"** lbt1 1/8"∗1"-**6"** PROJECT 4 P-1907-10R DRAIIN BY: LAG CHECKED BY: WAJ

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D3f

REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION. 39' 0" 28' 0" 11' 0" T1VGE T1V 12' 4" N T1V 0 Ŋ T1V .0 Ŋ T1V 15 T1V N T1V <u>.</u> Ż T1V 0 Ż T1V 0 T1 0 N T1 0 Ż T1 <u></u> Ŋ T1 0 T1 0 N T1 0 Ż 0 T1 <u>.</u> 59' 59' Ŋ T1A 0 1X PDS T1A 0 N T1A 0 2 T1A <u>.</u> 7 T1A <u>"</u> T1A 0 7 T1 0 Ŋ T1 <u></u> 2 T1 <u></u> 7 T1 0 2 T1 <u></u> 7 T1 0 Ŋ T1GE _m Ŋ

THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY.

GENERAL NOTES:

DO NOT CUT OR MODIFY TRUSSES.

Ξ

₩'Ö"

5' 0"

Salesperson:

TRUSSES ARE SPACED 24" ON CENTER UNLESS NOTED OTHERWISE.

 \triangle - Indicates left end of truss.

REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY AND/OR SCAB CONNECTION REQUIREMENTS.

PER ANSI TPI 1-2002 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLACEMENT PLAN RECCOMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.



T2

T2GE

20' 8"



DEDICATED TO QUALITY & EXCELLENCE 420 DIXON DAIRY ROAD KINGS MOUNTAIN, NORTH CAROLINA PHONE: 704.937.3712 FAX: 877.807.7983

ADEQUATELY TO THE FOUNDATION.		
Project:		
Cali - NP Vau	It MBR (M.	ASTER)
Customer:		
EXPRE	SS HOME	S
Model:		
NP Vault N	•	TER)
Scale: NOT TO SCALE	P.O. Number:	Order:
Quote by: Jason Ledbetter	_	MASTER
Design by:	Ship Date:	Project:

001397

Т3

T3GE

13' 4"

Terry Gonya

0

Project:

001397

MASTER