PINEHURST -A, B, C

PLAN ID: 2234 (SLAB) - LEFT HAND - NORTH CAROLINA

DATE:	REVISION:
06/09/2017	INITIAL RELEASE OF PLANS
07/21/2017	CLIENT REVISIONS
08/15/2017	REVISED PORCHES TO DROPPED SOFFIT
08.28.17	SPLIT SETS INTO SLAB AND BASEMENT VERSIONS
10/10/2017	CLIENT REVISIONS
10/20/2017	REVISED ROOF PITCH AT FRONT GABLE AT ELEVATIONS 'A' AND 'B'
11/01/2017	REMOVED PORCH RAILING FROM ELEVATION 'C' REMOVED DROPPED HEADER AT DINING
02/07/2018	ELECTRICAL REVISIONS
05/03/2018	ADDED EXTENDED PORCH OPTION
06/11/2018	CLIENT REVISIONS
11/14/2018	CLIENT REVISIONS
01/09/2019	REVISED CODE REFERENCES
06/18/2019	CLIENT REVISIONS
12/13/2019	CLIENT REVISIONS
02/28/2020	CLIENT REVISIONS
1	

SHEET INDEX:

CS ARCHITECTURALS - COVERSHEET

0 ARCHITECTURALS - QUICK VIEW

1A ARCHITECTURALS - ELEVATIONS A

1B ARCHITECTURALS - ELEVATIONS B

1C ARCHITECTURALS - ELEVATIONS C

3A ARCHITECTURALS - FLOOR PLANS A

3B ARCHITECTURALS - FLOOR PLANS C

4 ELECTRICAL - FLOOR PLANS C

REVIEWERS STAMP LOCATION

MODEL 'PINEHURST' SQUARE FOOTAGES						
AREA		ELEV 'B'				
lst FLOOR		896 SF				
2nd FLOOR		1311 SF	,			
TOTAL LIVING		2207 SF				
GARAGE		370 SF	· .			
PORCH		68 SF				

LAFAYETTE MEADOWS LOT 2 LONG MEADOW LANE FUQUAY VARINA, NC 27526 PIN#0653-39-3388.000



PINEHURST (SLAB)'

COVERSHEET

PLAN REV DATE

COPYREMENT PROPERTY OF DE HORTON NOT TO BE REPRODUCE
SHEET NUMBER

CS

N.C ATTIC VENT CALCULATION FOR MODEL 'PINEHURST': 1:150 RATIO.

THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 150 OF THE AREA OF THE SPACE VENTILATED, PROVIDED THOSE OF THE AREA OF THE SPACE VENTILATED, PROVIDED FROM THE REGISTREY SHALL AND THE AREA OF THE REGISTREY SHALL AND THE AREA OF THE THE AREA OF THE SPACE OF SHALL AND THE SPACE OF SHALL AND THE SPACE OF THE REGISTREY OF THE SPACE OF THE REGISTREY OF THE SPACE OF SPACE VENTILATED THE SPACE OF THE SPACE O

EXCEPTIONS: . EXCLOSED ATTIC/RAFTER SPACES REQUIRING LESS THAN I SQ FT OF VENTILATION MAY BE VENTED WITH CONTINUOUS SOFFIT VENTILATION ONLY.

2. ENCLOSED ATTIC/RAFTER SPACES OVER UNCONDITIONED SPACE MAY BE VENTED WITH CONTINUOUS SOFFIT VENT ONL

SPACE MAY BE VEHIED WITH COMMINIORS SCHETT VEHION OF SEPERAL COUNTRY OF SHALL VEHIEVE THE MET PREVIOUS SEPERAL COUNTRY OF SHALL VEHIEVE WHITH A WALL VEHIEVE WHITH WHITH A WALL VEHIEVE WHITH A WALL VEHIEVE WHITH WHITH A WALL VEHIEVE WHITH WHITH A WALL VEHIEVE WHITH WHIT

FER DEVELOPER, AT ALL CAMINIEVERED FLOORS, AMILEVERED ARCHITECTURAL POP-OUTS, AND ANY DOUBLE RAMINE PRO-ECTIONS THAT ARE SEPARATED FROM THE CHATINE CALCULATIONS SHOWN ABOVE, PROVIDE A CATTINIOUS 2" CORROSION RESISTANT SOFFIT VENT AT NOERSIDE OF FRANCED LEIDHINT.

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

DASHED LINES INDICATE WALL BELOW.

LOCATE GUTTER AND DOWNSPOUTS PER BUILDER

PITCHED ROOPS AS NOTED.

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

N.C ATTIC VENT CALCULATION FOR MODEL 'PINEHURST': 1:300 RATIC

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

SEREAL CONTRACTOR SHALL VERIET THE INT PREE
WHITLATION OF THE VIDIT PRODUCT SELECTED BY OMER.
WHITLATION OF THE VIDIT PRODUCT SELECTED BY OMER.
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TO BE USED FOR MINIMA CALLULATED VERTS REGUIRED, THE
REGUIRED, WHITLATION SHALL BE HAMITAINED,
DOES HOT OBSTRICT FREE ARE HOOMENT AS REGUIRED
BY THE BULLING OFFICIAL.
ALL OVERLAP FRAMED ROOF AREAS SHALL HAVE
PRAMED REPORTED THE STRUCTURAL DEVINEED
SHOWNED SETTING THE ADJACHET ATTOS IN THE ROOF
SHATMING HE ADJACHET ATTOS IN THE ROOF
SHATMING HAS ALLOWED BY THE STRUCTURAL DEVINEED
STREET HITE FOR SHATMING HAS BEEN SHATMING
SHEETEN HE TO SEE OR SHATMING HAS THE STRUCTURAL DEVINEED
SHEETEN HE TO SEE OR SHATMING HOT SPACES SHALL
SE VINITED INDEPENDENTLY TO GES REQUIREDHENS.
SET DEVINIORS AND ALL ALLANIE DEVERED HE GORS.

EVENTION THE LAT ALL CANTILEVERED FLOORS, ANTILEVERED ARCHITECTURAL POP-OUTS, AND ANY DOUBLE RAMING PROJECTIONS THAT ARE SEPARATED FROM THE PRIMING CALCULATIONS SHOWN ABOVE, PROVIDE A CONTINUOUS 2° CORROSION RESISTANT SOFFIT VENT AT MOREISTE OF TRAMED LEINEN.

(PER NORG SECTION REGGS.2)

I SQUARE INCH VENT FOR EVERY 300 SQUARE INCHES OF CEILING *144 SQ. IN. = 1 SQ. FT. BLDG. CEILING (SF) X 144 = BLDG (SQ. IN.) BLDG. (50., IN.) / 300 = 50., IN. OF VENT REQUIRED 50., IN. OF VENT REQUIRED / 2 = 50% AT HIGH & 50% AT LOW.

ROOF AREA I: = 1344 SF

1844 SQ, FT, X 144 = 193936 SQ, IN, 193936 SQ, IN, / 300 = 64512 SQ, IN, OF VENT REQ/D 64512 SQ, IN, / 2 = 32256 SQ, IS 32256 SQ, IN, OF VENT AT HIGH € 32256 SQ, IN, OF VENT AT LOW REQUIR

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

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

ROOFING: PITCHED SHINGLES PER DEVELOPER.

WINDOWS: MANUFACTURER PER DEVELOPER, DIVIDED LITES AS SHOWN ON THE EXTERIOR ELEVATIONS ENTRY DOOR: AS SELECTED BY DEVELOPER.

GARAGE DOORS: AS SELECTED BY DEVELOPER, RAISED PANEL AS SHOWN.

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

PROTECTION AGAINST DECAY: (ALL PORTIONS OF A PORCH, SCREEN PORCH OR DECK FROM THE BOTTOM OF THE HEADER DOWN, INCLUDING POST, RAILS, PICKETS, STEPS AND FLOOR STRUCTURE.)

INGULATION: PER TABLE NIO2.1.2.
EXTERIOR WALLS:
CELING WITH ATTIC ABOVE:
FLOOR OVER GARAGE:
R-49 BATTS MINIMM. VERIFY
R-49 BATTS MINIMM. VERIFY ATTIC KNEEWALL: R-I9 BATTS MINIMUM. VERIFY
CRAWL SPACE FLOORING: R-I9 BATTS MINIMUM. VERIFY

KEY NOTES:

MASONRY:

ADHERED STONE VENEER AS SELECTED BY DEVELOPER, HEIGHT AS NOTED

MASONRY FULL BRICK AS SELECTED BY DEVELOPER, HEIGHT AS NOTED.

MASONRY FILL STONE AS SELECTED BY DEVELOPER HEIGHT AS NOTED.

8" SOLDIER COURSE. ROWLOCK COURSE

CORROSION RESISTANT SCREEN LOWERED VENTS, SIZE AS NOTED.

CODE APPROVED TERMINATION CHIMNEY CAP.

CORROSION RESISTANT ROOF TO WALL FLASHING. CODE COMPLIANT FLASHING PER NCRC R905.2.8.3

IO STANDING SEAM METAL ROOF, INSTALL PER MANUFCATURER'S WRITTEN INSTRUCTIONS. III DECORATIVE WROUGHT IRON, SEE DETAILS.

SIDING:

VINYL SHAKE SIDING PER DEVELOPER WITH VINYL CORNER TRIM PER DEVELOPER. (AT SPECIFIED LOCATIONS: FIBER CEMENT SHAKE SIDING PER DEVELOPER W IX4 CORNER TRIM BOARD.)

VINYL LAP SIDING PER DEVELOPER WITH VINYL CORNER TRIM PER DEVELOPER. (AT SPECIFIED LOCATIONS: FIBER CEMENT LAP SIDING PER DEVELOPER W IX4 CORNER TRIM BOARD.)

VINYL WAVY SIDING PER DEVELOPER WITH VINYL CORNER TRIM PER DEVELOPER. (AT SPECIFIED LOCATIONS: FIBER CEMENT WAVY SIDING PER DEVELOPER W IX4 CORNER TRIM BOARD.)

VINYL BOARD AND BATT SIDING PER DEVELOPER WITH VINYL CORNER TRIM PER DEVELOPER.

(AT SPECIFIED LOCATIONS: FIBER CEMENT PANEL SIDING W IX3 BATTS AT 12" O.C. PER DEVELOPER W IX4 CORNER TRIM BOARD.) VINYL TRIM SIZE AS NOTED

CRC SECTION R312.2.1 AND R312.2.2.

(AT SPECIFIC LOCATIONS: IX FIBER CEMENT TRIM OR EQUAL, U.N.O. SIZE AS NOTED

FYPON SHUTTERS, TYPE AS SHOWN, SIZE AS NOTED. (AT SPECIFIC LOCATIONS: FALSE VINYL SHUTTERS, TYPE AS SHOWN, SIZE AS NOTED.)

ALL MINDONS MHOSE OPENING IS LESS THAN 24" ABOVE HE FINISH FLOOR AND MAGSE OPENING IS GREATER THAN 12" ABOVE THE OUTSIDE WALKING SURFACE MIST HAVE NINDOM OPENING LIMITING DEVICES COMPLYING WITH THE

(PER NORG SECTION R806.2)

I SQUARE INCH VENT FOR EVERY ISO SQUARE INCHES OF CEILING *144 SQ. IN. = I SQ. FT. BLDG. CEILING (SF) X I44 = BLDG (SQ. IN.) BLDG. (SQ. IN.) / ISO = SQ. IN. OF VENT REQUIRED SQ. IN. OF VENT REQUIRED / 2 = 50% AT HIGH & 50% AT LOW.

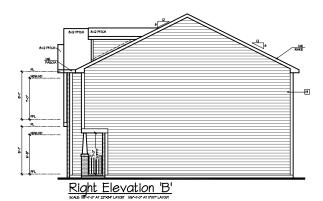
ROOF AREA I: = 1344 SF

1344 SQ, FT, X |44 = 143536 SQ, IN. 143536 SQ, IN, / 150 = 1240.24 SQ, IN. OF VENT REQ'D 1240.24 SQ, IN, / 2 = 645,12 SQ, IN 45.12 SQ. IN. OF VENT AT HIGH & 645.12 SQ. IN. OF VENT AT LOW REQUIRED.

<u>Left Elevation 'B'</u> OPTIONAL 2868

AT SINGLE FAMILY DETACHED PLANS: PREFINISHED VENTED SOFFIT AT EAVE PER MANUFACTURER.

(VERIFY FIRE SEPARATION DISTANCE FOR SOFFIT PROTECTION PER NCRC SECTION R302.1.1 AND TABLE R302.1)





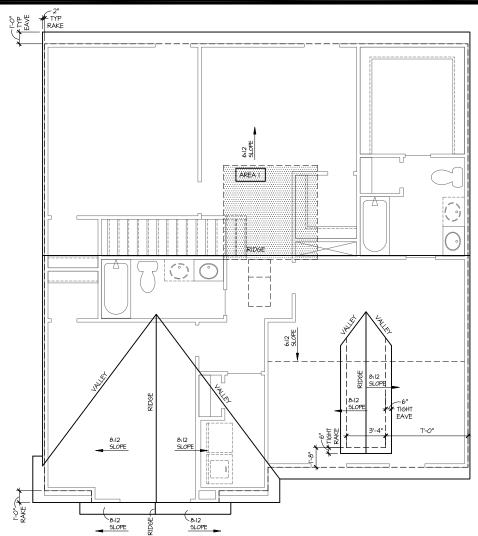
AVAILABLE WITH OPTIONAL 9'-1" FIRST FLOOR PLATE

NOTES AT OPT 9'-1" PLT:

- WDW HT SET AT 7'-6"

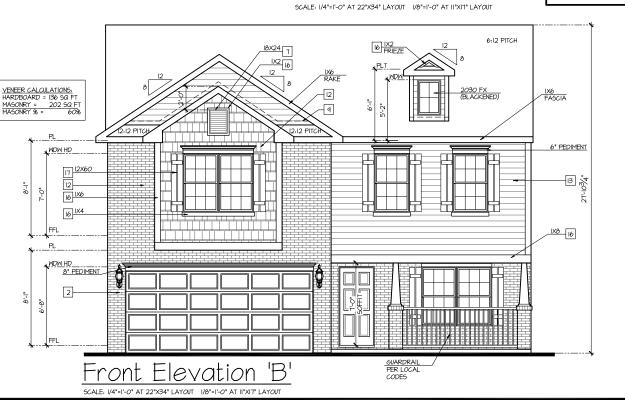
- INTERIOR SOFFITS AT 8'-0"

- EXTERIOR SOFFITS AT 8'-0"



Roof Plan 'B'

TRUSS MANUFACTURE TO VERIFY HEELS PER
COMMUNITY STANDARDS,
BUILDER TO VERIFY
PRIOR TO CONSTRUCTION



ELEVATION

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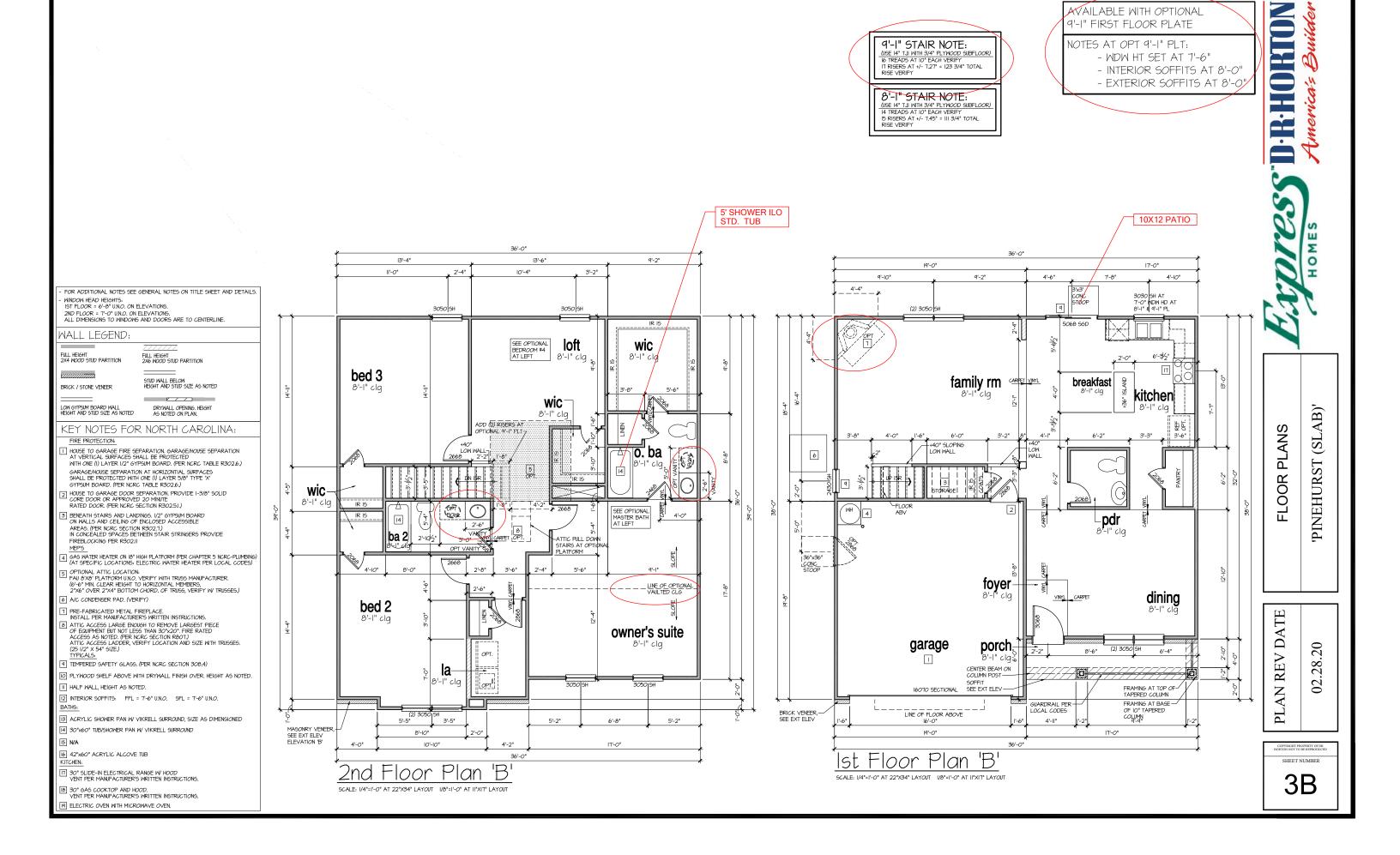
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(SL $\mathbf{S}\mathbf{I}$ PINEHUR

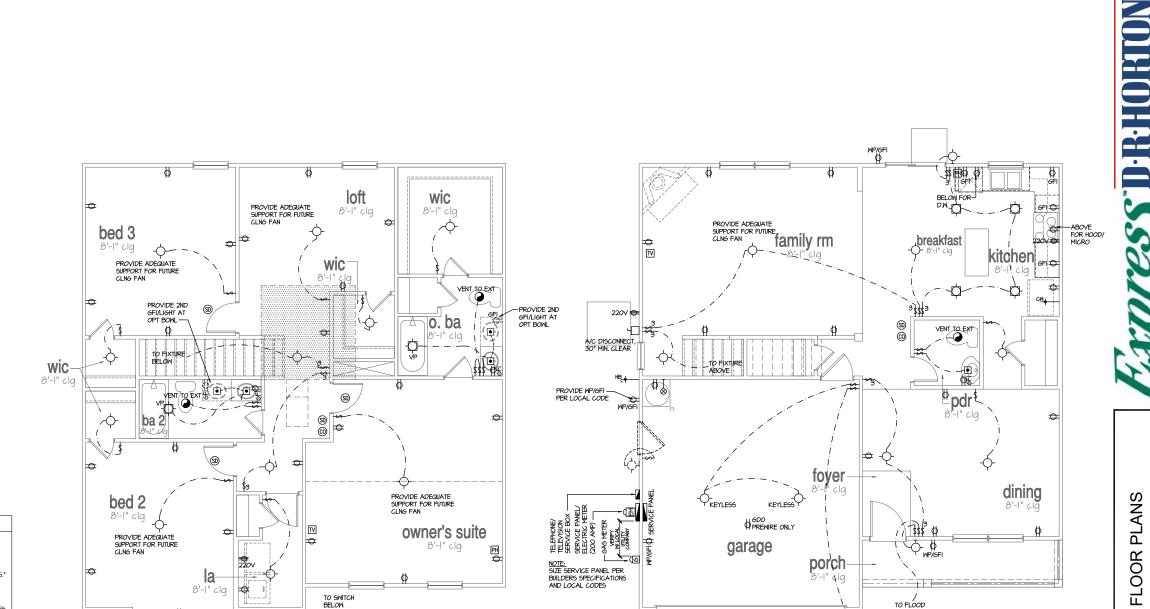
DATE 20 REV 28. 02 AN

1B

PL



AVAILABLE WITH OPTIONAL





ALL ELEVATIONS ARE SIMILAR

Ist Floor Plan 'A'

\ COACH LIGHT, CENTERLINE 6'-0" A.F.F. TO FLOOD ABOVE

COACH LIGHT, CENTERLINE 6'-0" A.F.F.

PROVIDE GROUNDING ELECTRICAL ROD PER LOCAL CODES.

- PROVIDE AND INSTALL ARC FAULT CIRCUIT-INTERRUPTERS (AFCI) AS REGUIRED 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 (GFL) 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.

LEGEND:

LLGI	_ND:		
Ф	DUPLEX OUTLET	\(\rightarrow \)	CEILING MOUNTED INCANDESCENT LIGHT FIXTURE
ФиР/6FI	WEATHERPROOF GFI DUPLEX OUTLET	Ю-	WALL MOUNTED INCANDESCENT
∯ 6FI	GROUND-FAULT CIRCUIT-INTERRUPTER DUPLEX OUTLET		LIGHT FIXTURE RECESSED INCANDESCENT LIGHT FIXTURE
ф	HALF-SWITCHED DUPLEX OUTLET	ф	(VP) = VAPOR PROOF
Ф 220∨	220 VOLT OUTLET	•	CEILING MOUNTED LED LIGHT FIXTURE (VP) = VAPOR PROOF
0	REINFORCED JUNCTION BOX	•	EXHAUST FAN (VENT TO EXTERIOR)
\$	WALL SWITCH	-	EXHAUST FAN/LIGHT COMBINATION (VENT TO EXTERIOR)
\$з	THREE-WAY SWITCH		FLUORESCENT LIGHT FIXTURE
\$4	FOUR-WAY SWITCH		I BONGSOLITI BOTT I TATING
CH	CHIMES		TECH HUB SYSTEM
9	PUSHBUTTON SWITCH	X	CEILING FAN (PROVIDE ADEQUATE SUPPORT)
<u>so</u>	IIOV SMOKE ALARM W BATTERY BACKUP	\(\lambda \)	CEILING FAN WITH INCANDESCENT
€	IIOV SMOKE ALARM CO2 DETECTOR COMBO	黑	LIGHT FIXTURE (PROVIDE ADEQUATE SUPPORT)
Ð	THERMOSTAT	⊢⊗	GAS SUPPLY WITH VALVE
PH	TELEPHONE	-	
īV	TELEVISION	→#	HOSE BIBB
	ELECTRIC METER	-+ _{GN}	I/4" WATER STUB OUT
	ELECTRIC PANEL	Я	
	DISCONNECT SMITCH	K	WALL SCONCE

'PINEHURST (SLAB)'

OME

PLAN REV DATE .28.20

SHEET NUMBER

DESIGN SPECIFICATIONS:

Construction Type: Commerical ☐ Residential ☒

Applicable Building Codes:

• 2016 North Carolina Residential Building Code with All Local Amendments

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

sign L	oads:		
~ I.		Live Loads	
		Conventional 2x	
	1.2.	Truss	
		12.1. Attic Truss	60 PS
2.	Roof	Dead Loads	
		Conventional 2x	
		Truss	
3.			
	3.1.	Importance Factor	IØ
4.		Live Loads	
	4.1.	Typ. Dwelling	40 PS
	4.2.	Sleeping Areas	30 PS
	4.3.	D e cks	40 PS
	4.4.	Passenger Garage	50 PS
5.		Dead Loads	

5.1. Conventional 2x. Ultimate Design Wind Speed (3 sec. gust)
 Exposure
 Importance Factor

63. Wind Base Shear

631. Vx =
632. Vy =
7. 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,-202
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	1 8 .7,-23.5
ZONE 4	182,-19.0	19.2,-20 .0	19.9,-20.7	20.4,-21.3
ZONE 5	18 2 ,-24.0	19.2,-25.2	19.9,-26.1	20.4,-26.9

Seismi	c	
8.1.	Site Class	₽
8.2.	Design Category	Ç
	Importance Factor	Ø
8.4.	Seismic Use Group	1
8.5.	Spectral Response Acceleration 8.5.1. Sms = %g 8.5.2. Sml = %q	
8.6.	Seismic Base Shear	

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

□ Bearing Wall
 □ Building Frame
 □ Moment Frame

□ Dual w/ Special Moment Frame
□ Dual w/ Intermediate R/C or Special Steel ☐ Inverted Pendulum 88. Arch/Mech Components Anchored

8.9. Lateral Design Control: Seismic

9. Assumed Soil Bearing Capacity



STRUCTURAL PLANS PREPARED FOR:

PINEHURST - LH

PROJECT ADDRESS:

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

DESIGNER: GMD Design Group 102 Fountain Brook Circle **C**ary, 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 SUPMIT Engineering, Laboratory 4 Testing, P.C. before construction begins.

PLAN ABBREVIATIONS

AB ANCHOR BOLT	
CJ CEILING JOIST SC STUD COLUMN	
CLR CLEAR 5J SINGLE JOIST DJ DOUBLE JOIST SPF SPRUCE PINE FIR DSP DOUBLE STUD POCKET 9ST 9IMPSON STRONG-TIE	
DJ DOUBLE JOIST	
DSP DOUBLE STUD POCKET SST SIMPSON STRONG-TIE	
7	
EE EACH END SYP SOUTHERN YELLOW PINE	
EW 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 WUF WELDED WIRE FABRIC	

Roof truss and floor joist layouts, and their corresponding loading details, were not provided to SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) prior to the initial design. Therefore, truss and joist directions were assumed based on the information provided by <u>DR Horton, Inc.</u> Subsequent plan revisions based on 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:

Sheet No.	Des c ription
CSI	Cover Sheet, Specifications, Revisions
51.Øm	Monolithic Slab Foundation
SI.Øs	Stem Wall Foundati o n
SI.Øc	Crawl Space Foundation
51.Øb	Basement Foundation
S2.Ø	Basement Plan
63.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 Development	

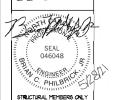
summit

Revision No.	Date	Project No.	Descri p tion
-	5.16.17	125Ø4R	Revised garage slab note. Revised roof overframing. Verified floor joist layouts provided by 84 Lumber dated 33,115. Verified roof truss layouts provided by 84 Lumber dated 328,11.
2	6.19.17	125Ø4R2	Added stem wall foundation plan
3	8.14.17	125Ø4R3	Revised columns at front porch
4	דו,דו,וו	125Ø4R4	Revised SYP and pressure treated member notes
5	12.18.18	17837	Added crawl space foundation
6	7.10.18	17837R	Revised per new architectural files. Added optional extended porch.
7	8.13.18	17837R2	Revised dimension at front porch column
8	10.5.18	17837R3	included stick framing option at extended porch
9	11.30.18	17837R4	Revised NC version only for 2018 NCRC
Ø	3.14.19	21851	Revised TN version only for 2018 IRC
11	6.28.19	2185IR	Added opti o nal vault
12	3.15.21	TØØ83	Added OX-16 bracing plan option
13	5.3.21	TØØ83	Ad d ed SPF note opti o n

REVISION LIST:

3





- shall be in accordance with the applicable AFA standards.
 All structurally required fiberboard sheathing shall bear the mark of the AFA
- 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.

Wood wall sheathing shall comply with the requirements of local Wood wall sheathing shall comply with the requirements of local building codes for the appropriate state as inclusted 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 AIT-A rated sheathing exposure of 7. Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC nail at 6°0/c at panel edges and at 12°0/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

rave a span faulty Consisters with the maining spacing, uses suitable edge support by use of plugood clips or limber blocking unless otherwise noted. Panel end Joints shall occur over framing, Apply building paper over the sheathing as required by the state Building Code. Wood floor sheathing shall be APA rated sheathing exposure I or 2. Attach sheathing to its supporting framing with (I)-8d CC ringshark hall at 6°0/c at panel edges and at 12°0/c in panel field unless. Otherwise anded on the plane. Sheathing abill be

ringsmark fall at 6°00' at pariet eagles and at 12°00' in pariet 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 edges support by use of 14c plywood or lumber blocking unless otherwise noted. Panel and joints shall occur over framing.

Apply building paper over the sheathing as required by the

- GENERAL STRUCTURAL NOTES:

 1. The design professional whose seal appears on these drawings is the structural engineer of record (SER) for this project. The SER bears the responsibility of the primary structural elements and the performance of this structure. No other party may revise, alter, or delete any structural aspects of these construction documents without written permission of SUMMIT Engineering, Laboratory 4 Testing, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT
- shall be considered the same entity.

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

 The SER is not responsible for construction sequences, method 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 fo
- 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:

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 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 recommenda
- 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

- STRICTURAL STEEL:

 I. 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_n) of 36 ksi unless otherwise noted
- Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS D.I. Electrodes for shop and field welding shall be class ETOXX. All welding shall be performed by a certified welder per the above

- NUMBELE:
 Concrete shall have a normal weight aggregate and a minimum compressive strength (Pa) 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 **6**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.IR-96: "Guide for Concrete Slab and Slab Construction[®]
- The concrete slab-on-grade has been designed using a subgrade modulus of k=250 pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported conditions not in accordance with the above assumptions. Control or saw out 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
- process within 4 to 12 hours after the slab has been inlined a Reinforcing 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:

- MANSE IE NE INFORCETIEN!

 Fibrous concrets reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and themal expansion/contraction, lowered water migration, an increase in impact capacity, increased
- water imigration, introdes in impact capacity, increased abrasion resistance, and residual strength.

 Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed officin materials and specifically manufactured for use as concrete secondary reinforcement.

 Application of fibermesh per cubic yard of concrete shall equal application of 01% by volume (15 pounds per cubic yard)
 Fibermesh shall comply with ASTM CIll6, 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.
- ASIM A65, 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
- Lap reinf**o**rcement **a**s require**d**, 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 reinfarcing dowels are required, they shall be equivalen in size and spacing to the vertical reinforcement. The dowel shall extend 48 bar diameters vertically and 20 bar diameters
- into the footing.

 Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.
- WOOD FRAMING:
 I. Solid saum wood framing members shall conform to the specifications listed in the latest edition of the "National Design Specification for Wood Construction" (NDS). Unless otherwise noted, all wood framing members are designed to be Southern-Yellow-Pine (SYP) 2 or Southm-Spruce Pine (SPF) 2. LVL or PSL engineered wood shall have the following minimum
- design values: 2.1. E = 1,9*00,000* psi
 - 22.Fb = 2600 psi
 - 2.3.Fv = 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.
- winn wurth standard C-2 Nails shall be common wire nails unless otherwise nated. Lag screws shall conform to ANSI/ASYIE standard Bib2.1-1381. 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 @ 161 OC unless otherwise noted. Studs shall be continuous from the sale plate to the double top plate. Studs shall only be discontinuous at headers for uindow/door openings. A minimum 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 loc individual studies forming a column shall be continuous to the foundation or beam. 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 24 O.C. Four and five ply beams shall be bolted together with (2) rows of 1/2" diameter through bolts staggered @ 16" O.C. unless noted otherwise.

WOOD TRUSSES:

- The wood 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 neview by the SER shall review for overall compliance with the design documents. The SER shall assume no responsibility for the correctness for the structural design for the wood trusses.
- The wood trusses shall be designed for all required loadings as specified in the local building code, the ASCE Standard "Minimum Design Loads for Buildings and Other Structures." (ASCE 7-10), and the loading requirements shown on these specifications. The truss drawings shall be coordinated with all other construction documents and provisions provided for loads shown on these drawings including but not limited to HVAC equipment, piping, and architectural fixtures attached to
- the trusses. The trusses shall be designed, fabricated, and erected in accordance with the latest edition of the "National Design Specification for Wood Construction." (NDS) and "Design Specification for Metal Plate Connected Wood Trusses."
- The trues manufacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Commected Wood Trusses" (HIB-9). This bracing, both temporary and permanent, shall be shown on the shop drawings.

 Also, the shop drawings shall show the required attachments for
 - Any chords or truss webs shown on these drawings have been shown as a reference only. The final design of the trusses shall be per the manufacturer.

XTERIOR 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.

OOD 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
- All structurally required wood sheathing shall bear the mark of

- sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.
- STRUCTURAL FIBERSOARD PANELS:

 I. Fabrication and placement of structural fiberboard sheathing
- information. Sheathing shall have a 1/8" gap at panel ends and edges are

SCALE 2564 WY-F-6"

PROJECT DATE

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DOMEN BY JOSE CHECKED BY: BCP

FOUNDATION NOTES:

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

 STRUCTURAL CONCRETE TO BE F. = 3000 PSI, PREPARED AND PLACED IN

 ACCORDANCE WITH ACI STANDARD 3/8.

 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.
- 5. FOOTINGS AND PIERS SHALL BE CENTERED UNDER THEIR RESPECTIVE ELEMENTS, PROVIDE 2" MINIMUM FOOTING PROJECTION FROM THE FACE OF
- 6. MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN SECTION R404.1 OF THE 2018 NORTH CAROLINA RESIDENTIAL
- BUILDING CODE.
 PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- PROVIDE FOUNDATION WATERPROPING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.
 PROVIDED PERMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH
- CAROLINA RESIDENTIAL BUILDING CODE.

 10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK VENEERS.
- CRAWL SPACE TO BE GRADED LEVEL. AND CLEARED OF ALL DEBRIS.
- CRAIL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBNIS.
 FOUNDATION ANCHORAGE SHALL BE CONSTRICTED PER THE 2018 NORTH
 CAROLINA RESIDENTIAL CODE SECTION RADSIG. MINIMUM IVE DIA BOLTS
 SPACED AT 6'-0" ON CENTER WITH A "I" MINIMUM EMBEDMENT INTO MASONRY. OR CONCRETE. ANCHOR BOLTS SHALL BE 10" FROM THE BND OF EACH PLATE SECTION MINIMUM (2) ANCHOR BOLTS FER PLATE SECTION. ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.

SJ = SINGLE JOIST

- - DJ = DOUBLE JOIST
 - GT = GIRDER TRUSS SC = STUD COLUMN FT = FLOOR TRUSS

 DR = DOUBLE RAFTER
 - EE = EACH END 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)
 UIALL FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN.
- 12. 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, 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 R602.10.8 AND FIGURES R602.1065, R602.10.1 R602.10.8(1) AND R602.10.8(2) OF THE 2015 IRC

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

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP | PER TABLE R4051

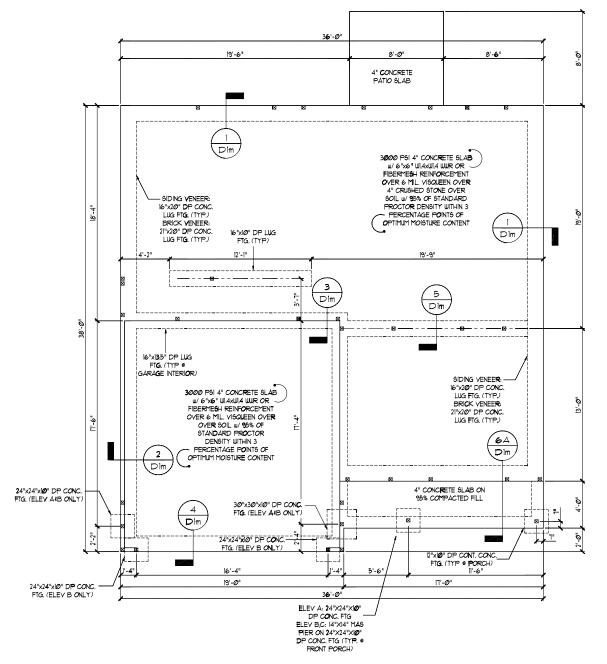
THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY <u>PR HORION</u> COMPLETED/REVISED ON 02/28/20. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTICE SUMMIT ENGINEERING LARGRATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY 4 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.

MONOLITHIC SLAB FOUNDATION PLAN



MONOLITHIC SLAB FOUNDATION - ALL ELEVATIONS





undation Slab \underline{o} PROJECT: Product - LH Monolithi



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REQUIRED BRACED WALL PANEL CONNECTIONS						
REQUIRED BRACED WALL FANEL CONNECTIONS						
			REQUIRED	CONNECTION		
METHOD	MATERIAL	MIN. THICKNESS	PANEL EDGES	INTERMEDIATE SUPPORTS		
C \$ -W5P	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** ⊕ 1° O.C.	5d COOLER NAILS** @ 1" O.C.		
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS 9 6" O.C.	6d COMMON NAILS 12" O.C.		
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.6.4	PER FIGURE R602.106.4		
"OR EQUIVALENT PER TABLE RT@2.35						

GENERAL STRUCTURAL NOTES:

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

 CONTRACTOR SHALL VERRY ALL DIMENSIONS. CONTRACTOR SHALL COMPLY WITH
 THE CONTRACTOR OF THE DRAWING FOR THIS SPECIFIC PROJECT. ENGINEER IS NOT
 RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAN.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION.

 PROPERTIES USED IN THE DESIGN ARE AS FOLLOWS:
- MICROLLAM (LVL): F₀ = 1600 PSI, F₁ = 285 PSI, E = 19x10° PSI PARALLAM (FSI). F₀ = 2900 PSI, F₁ = 230 PSI, E = 19x10° PSI ALL WOOD MEMBERS SHALL BE 79 SPP 95 PFI UNLESS NOTED ON PLAN ALL STUD COLUMNS AND JOISTS SHALL BE 79 SYP79 SPF (UNC).
- ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 12 SYP/12 SPF STUD COLUMN AT
- EACH BUN LESS 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 ANCHORAGE SHALL DE CONSTRUCTED PER ITE 2016 NORTH CAROLINA RESIDENTIAL CODE SECTION RASJLE MINIMUM 12" DILA BUTTO SPACED AT 6'-0" ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE SECTION, MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION, ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.

 9. CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN
- PERPENDICULAR TO RAFTERS.
- ID. FLITCH BEAMS, 4-PLY LVLS AND 3-PLY SIDE LOADED LVLS SHALL BE BOLTED TOGETHER WITH 1/2" DIA. THRU BOLTS SPACED AT 24" O.C. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/D3f. MIN. EDGE DISTANCE SHALL BE 2"
- AND (2) BOLTS SHALL BE LOCATED MINIMUM 6" FROM EACH END OF THE BEAM. ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 STP (1)25FF 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 12/6PF 12, DROPPED. (UNLESS NOTED OTHERWISE) ABBREVIATIONS

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

NOTE:

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

JOIST & BEAM SIZE**S** SHOUN ARE MINIMUMS, BUILDER MAY INCREASE DEPTH F**O**R EASE OF CONSTRUCTION.

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 ARCHITECTURAL PLANS PROVIDED BY <u>DR HORTON</u>

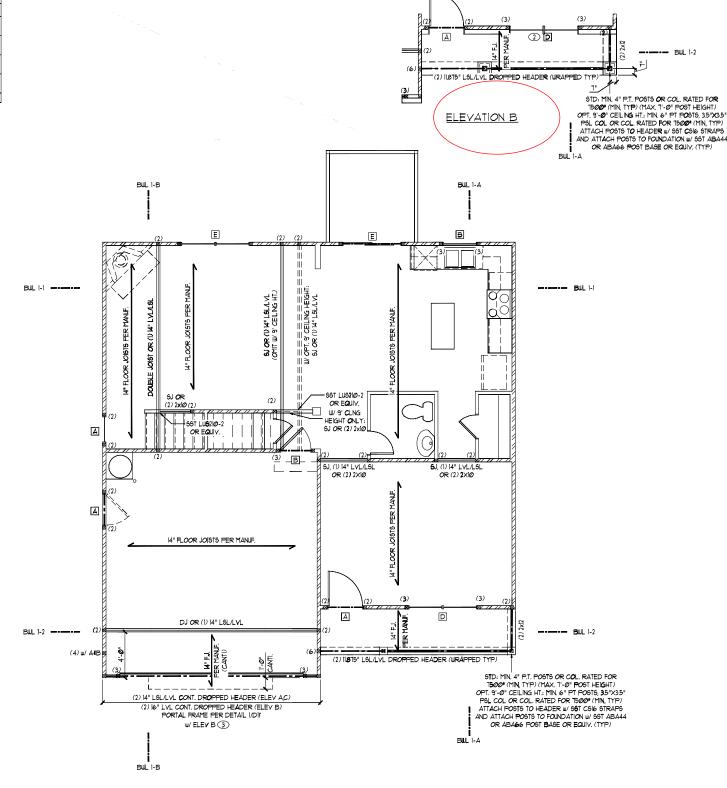
COMPLETED/REVISED ON 02/28/20, IT IS THE RESPONSIBILITY OF
THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY 4 TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING,
LABORATORY & TESTING, P.C. CANNOT GLARANTEE THE ADEQUACY
OF THESE STRUCTURAL PLANS 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



FIRST FLO	OR FRAMING	PLAN -	ELEVATION A

FIRST FLOOR BRACING (FT)					
CONTI	CONTINUOUS SHEATHING METHOD				
REQUIRED PROVIDED					
BWL 1-1 11.0 21.5		21,5			
BWL 1-2	110	11.5			
BWL 1-A	103	32 . Ø			
BWL 1-B					

HΕ,	ADER SCHED	ULE		
T A G	SIZE	JACKS (EACH END		
Α	(2) 2x6	(1)		
в	(2) 2x8	(2)		
u	(2) 2xlØ	(2)		
ā	(2) 2x12	(2)		
E	(2) 9-1/4" L5L/LVL	(3)		
F	(3) 2x6	(1)		
G	(3) 2x8	(2)		
#	(3) 2x10	(2)		
	(3) 2×12	(2)		

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

LINTEL SCHEDULE		
SIZE	OPENING SIZE	
L3x3x1/4"	LESS THAN 6'-0"	
L 5 x3x1/4"	6'- 0 " TO 10'-0"	
L5x3-1/2"x5/l6"	GREATER THAN 10'-0"	
L5x3-1/2"x5/16" ROLLED OR EQUIY.	ALL ARCHED OPENINGS	
	\$1ZE L3x3x1/4" L5x3x1/4" L5x3-1/2"x5/16" L5x3-1/2"x5/16"	

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

15T & 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	KINGS (EACH END)	
LESS THAN 3'-0"	(1)	
3'-Ø †O 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		

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED PER SECTION R602.10 OF THE 2018 NC RESIDENTIAL CODE.
- WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO 130 MPH.
 REFER TO ARCHITECTURAL PLAN FOR DOOR WINDOW OPENING.

- SILES.

 BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN

 ACCORDANCE WITH IRC TABLE R602104.

 ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR 190LATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.105. THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- 1/2" GYPSUM BOARD (INO).
 FOR COMINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OPENINGS, AND ON GABLE END WALLS.
- FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- A BRACED WALL PANEL SHALL BE LOCATED WITHIN 10 FEET OF EACH END OF A BRACED WALL LINE.
- THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 20 FEET.

 II. MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR LEGS SUPPORTING A BRACED WILL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602109 OF THE 2015 IRC. BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE
- CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.8 BRACED WALL 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(0).11
 PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE
- R602.10.6.4 (UNO) IG. ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.
 II APPREVIATIONS:

GB = GYPSUM BOARD WSP = WOOD STRUCTURAL PANEL summit



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STRUCTURAL MEMBERS ONLY 6CALB 2564 W-1-6* DRAIN BY, JOSE GEORD BY: BCP

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	REQUIRED BRACED WALL PANEL CONNECTIONS			
			REQUIRED CONNECTION	
METHOD	MATERIAL	MIN. THICKNESS	# PANEL EDGES	# INTERMEDIATE SUPPORTS
C 5 -W6P	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 NAIL 6 ** © 7" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMM O N 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 RT0235			

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 FLAN.
 CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED.

- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL FORCES FOR ENCOUNTERED DURING ERECTION.
 PROPERTIES USED IN THE DESIGN ARE AS FOLLOUS:
 MICROLLAM (LYL.): F_B = 2600 FSI, F_V = 285 FSI, E = 1.9x10° FSI
 PARALLAM (PSI.): F_B = 2900 FSI, F_V = 290 FSI, E = 1.9x10° PSI
 ALL WOOD HEMBERS SHALL BE "2 SYP"/2 SPF UNLESS NOTED ON PLAN. ALL. STUD
 COLUMNS AND JOISTS SHALL BE" SUPPORTED WITH A (2) 2X4 "2 SYP"/2 SPF STUD COLUMN AT
 FACULEND BUT SES NOTED OUTLEBUILDED.
- EACH END UNLESS MOTED OTHERWISE.

 1. ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMIM COVER OF 31.

 8. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH
- FOUNDATION AND INCREMENTATION SHAPE OF THE 2015 NARTH TO CAROLINA RESIDENTIAL CODE SECTION RASJAM NINIMIN 12" DIA BOLTS SPACED AT 6'-0" ON CENTER WITH A 1" MINIMIN EMBEDMENT INTO MASONEY OR CONCRETE. ANCHOR BOLTS SHALL BE UT 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 LOCKOUTS WHEN CEILING JOISTS SPAN
- PERPENDICULAR TO RAFTERS.
- ID. FERTENDIQUARY TO RAPIES AND 3-PLY SIDE LOADED LYLS SHALL BE BOLTED TOGETHER WITH 1/2" DIA. THRU BOLTS SPACED AT 24" OC. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL 1/D3", 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 (I) FLAT 2x4 SYP \$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 2x4 SYP 12/SPF 12, DROPPED, (UNLESS NOTED OTHERWISE)
- - DJ = DOUBLE JOIST GT : GIRDER TRUSS
- SJ = SINGLE JOIST FT = FLOOR TRUSS
- SC = STUD COLUMN EE = EACH END DR = DOUBLE RAFTER TR = TRIPLE RAFTER
- TJ = TRIPLE JOIST OC = ON CENTER CL = CENTER LINE PL = POINT LOAD

NOTE:

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

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

| NSTALL ANY REQUIRED HOLDOWNS PER SECTION | R602.103 AND FIGURES R602.1065, R602.10.71, 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

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY <u>DR HORTON</u>
COMPLETED/REVISED ON 02/28/20, IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING LABORATORY & TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

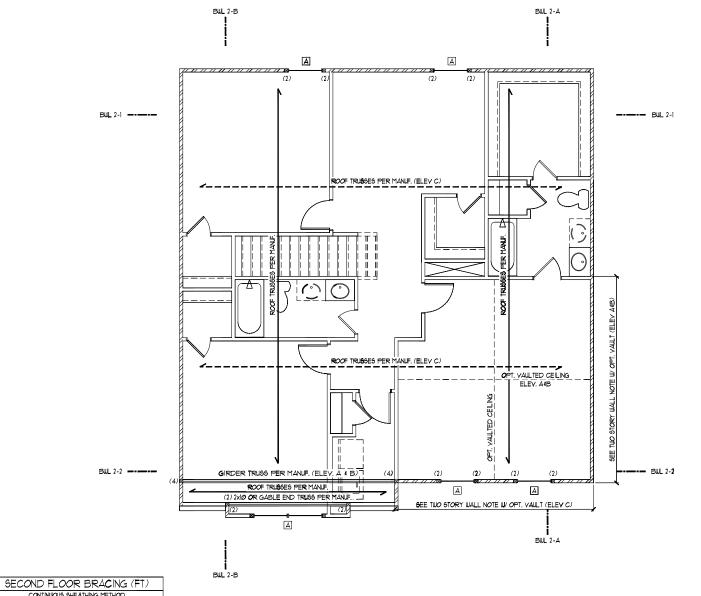
STRUCTURAL MEMBERS ONLY

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

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN

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



CONTIN	EIHOD		
	REQUIRED	PROVIDED	
BWL 2-1	56	30 0	
BWL 2 -2	56	23.8	<u>s</u>
BWL 2-A	5.1	36 .0	⊻

BWL 2-B 5.I 38.

BECOND FLOOR FRAMING PLAN - ALL ELEVATIONS

HE,	JLE	
TAG	SIZE	JACKS (EACH END)
Α	(2) 2x6	(1)
В	(2) 2x8	(2)
С	(2) 2x1Ø	(2)
D	(2) 2x12	(2)
E	(2) 9-1/4" LSL/LVL	(3)
F	(3) 2x6	(1)
G	(3) 2x8	(2)
Н	(3) 2xlØ	(2)
	(3) 2xl2	(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	OPENING SIZE
Θ	L3x3x1/4"	LESS THAN 6'-0"
@	L5x3x1/4"	6'-0" TO 10'-0"
3	L5x3-1/2"x5/l6"	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 SCREWB STAGGERED @ 16" O.C. (TYP FOR 3)

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

WALL STUD SCHEDULE

<u>191 € 2ND FLOOR LOAD BEARING STUDS:</u> 2x4 STUDS ● 16" O.C. OR 2x6 STUDS ● 24" O.C. 1ST 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" O.C. OR 2x6 STUDS @ 16" O.C. NON-LOAD BEARING STUDS (ALL FLOORS): 2x4 STUDS @ 24" O.C. <u>TWO STORY WALLS:</u> 2x4 STUDS @ 12" O.C. OR 2x6 STUDS @ 16" O.**C.** BALL*OO*N

FRAMED W/ CROSS BRACING @ 6'-0" O.C. VERTICALLY

KING CTUD DI	COULDEMENTS
KING STUD RI	
OPENING WIDTH	KINGS (EACH END)
LESS THAN 3'-0"	(I)
3'- 0 TO 4'- 0 "	(2)
4'- 0 " TO 8'- 0 "	(3)
8'- 0 " TO 12'- 0 "	(5)
12'- 0 " TO 16'- 0 "	(6)

KING STUD REQUIREMENTS ABOVE DO NO APPLY TO PORTAL FRAMED OPENINGS

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.00 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED
- PER SECTION R60110 OF THE 2010 NO RESIDENTIAL CODE:
 WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND
 SPEEDS UP TO 130 MPH.
- 2. REFER TO ARCHITECTURAL PLAN FOR DOORWINDOW OPENING
- BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH IRC TABLE R602.104.
- ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM
- 1/2" GYPSUM BOARD (UNO). FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL
- OPENINGS, AND ON GABLE END WALLS.
 FLOORS SHALL NOT BE CANTLEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARNIS 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.
 10. THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS
- SHALL NOT EXCEED 20 FEET.
- MASONICY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602109 OF THE 2015 IRC.
- BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE
- DRACED WALL PANEL CONNECTIONS OF PSECTION REPOILED STATE CONSTRUCTED IN ACCORDANCE WITH SECTION REPOILED BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION REPOILED AND RESIDENCE PROPERTY. FIGURES R602 10 8(1)4(2)4(3)
- CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION RE021011

 B. PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE DESIGNED IN ACCORDANCE WITH FIGURE DESIGNED.
- R602.10.6.4 (UNO) IG. ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.

 II. ABBREVIATIONS:

summit



Ø 3



STRUCTURAL MEMBERS ONLY 6CALB 2564 W-1-6* COMMUNICATION CHECKED BY: BCP

PRIMER TO COVER SHEET FOR A CONFLETE LIST OF PRIVATION

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY DR HORTON COMPLETED/REVISED ON 07.02.02, IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY 1 TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. SUMMIT ENGINEERING, LABORATORY 1 TESTING, P.C. 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)

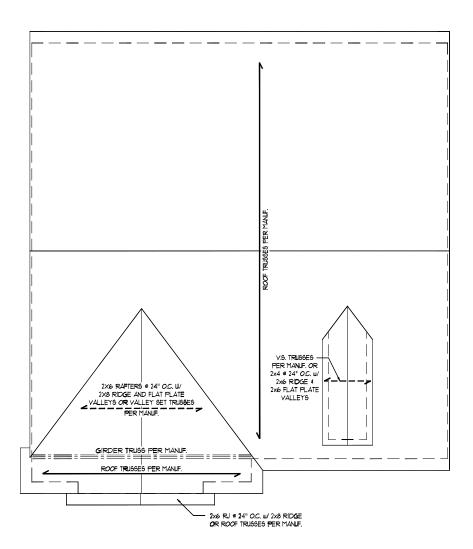
NOTE: ROOF TRUSSES SHALL BE SPACE TO SUPPORT FALSE FRAMED DORMER WALLS (TYP, UNO)

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

<u>ROOF FRAMING PLAN</u> 9CALE: 1/4" =1'-0" ON 22" 1/34" OR 1/8" =1'-0" ON 11" XIT"



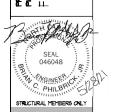
ROOF FRAMING PLAN - ELEVATION B





DR Horton, Inc. 8001 Arroundge Blvd. Charlotte, NC 28713

PROJECT: Product: - LH First Floor Framing Plan



PHILE TRANSPORT OF THE PROPERTY OF THE PROPERT

REFER TO COVER SHEET FOR A CONFLETE LIST OF REVISIONS

S**5**.1

Applicable Building Codes:

• 2018 North Carolina Residential Building Code with All Local Amendments

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

9" -	ougos.		
٦.	Roof	Live Loads	
	1.1.	Conventional 2x	2Ø PSF
	1.2.	Trus s	2Ø PSF
		12.1. Attic Truss	60 PSF
2.	Roof	Dead Loads	
	2.1.	Conventional 2x	10 PSF
	2.2.	Truse	2Ø PSF
3.	Snow		15 PSF
	3.1.	Importance Factor	lø
4.	Floor	Live Loads	
	4.1.	Typ. Dwelling	40 PSF
		Sleeping Areas	
		Decks	
	4.4.	Passenger Garage	50 PSF

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

6.l. Exposure 62. Importance Factor... 63. Wind Base Shear

6.3.l. Vx =

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

MEAN ROOF HT.	UP T Ø 3Ø'	3 Ø'I"-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 Ø .7	20.4,-21.3
ZONE 5	18.2,-24.0	19.2,-25.2	19.9,-26.1	20.4,-26.9

Seismic Use Group ...

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

861.Vx = 862.Vy = 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 🖂 9. Assumed Soil Bearing Capacity ...

STRUCTURAL PLANS PREPARED FOR

STANDARD DETAILS

PROJECT ADDRESS:

OUNER: 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 recoord (SER, Should any cliarcepancies 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
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
EW	EACH WAY	TJ	TRIPLE JOIST
NTS	NOT TO SCALE	TSP	TRIPLE STUD POCKET
ОC	ON CENTER	TYP	TYPICAL
P S F	POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
₽91	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

ôheet Nø.	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	DIF Framing Details	

DR HORTON PROJECT SIGN-OFF:

Manager	5ignature		
Operations			
Operations System			
Operations Product Development			

SÜMMIT



GENERAL STRUCTURAL NOTES:

- NERAL 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, after, 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 surposes of these construction documents the SER and SUMMIT. 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 9UMMIT. 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 9UMMIT before construction begins.

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

- 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 kg unless
- otherwise noted

- Number IE.

 Concrete shall have a normal weight aggregate and a minimum compressive strength (fe/ at 28 days of 3000 ps), unless otherwise noted on the plan.

 Concrete shall be proportioned, mixed, and placed in
- 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.

- Construction" 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%
- 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

- 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

- accordance with the latest editions of ACI 318: "Building Code

- 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 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 (www.) for concrete slabs-on-grade shall be placed at mid-depth of slab. The WWW. 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
- standard.
 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"
- otherwise noted, all wood framing members are designed to be Spruce-Yellow-Pise (SYP) 12.

 LVL or PSL engineered wood shall have the following minimum

Design Specification for Wood Construction" (NDS), Unless

- 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 blood in contract, 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 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.

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

- In a wood trusses shall be designed for all required loadings as specified in the local building code, the ACCE 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 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)-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 limber 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)-Bd CC ringshark nail at 6°0'c at panel edges and at 12°0'c in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing, Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of 14G 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

PROJECT:
Standard Details
Coversheet

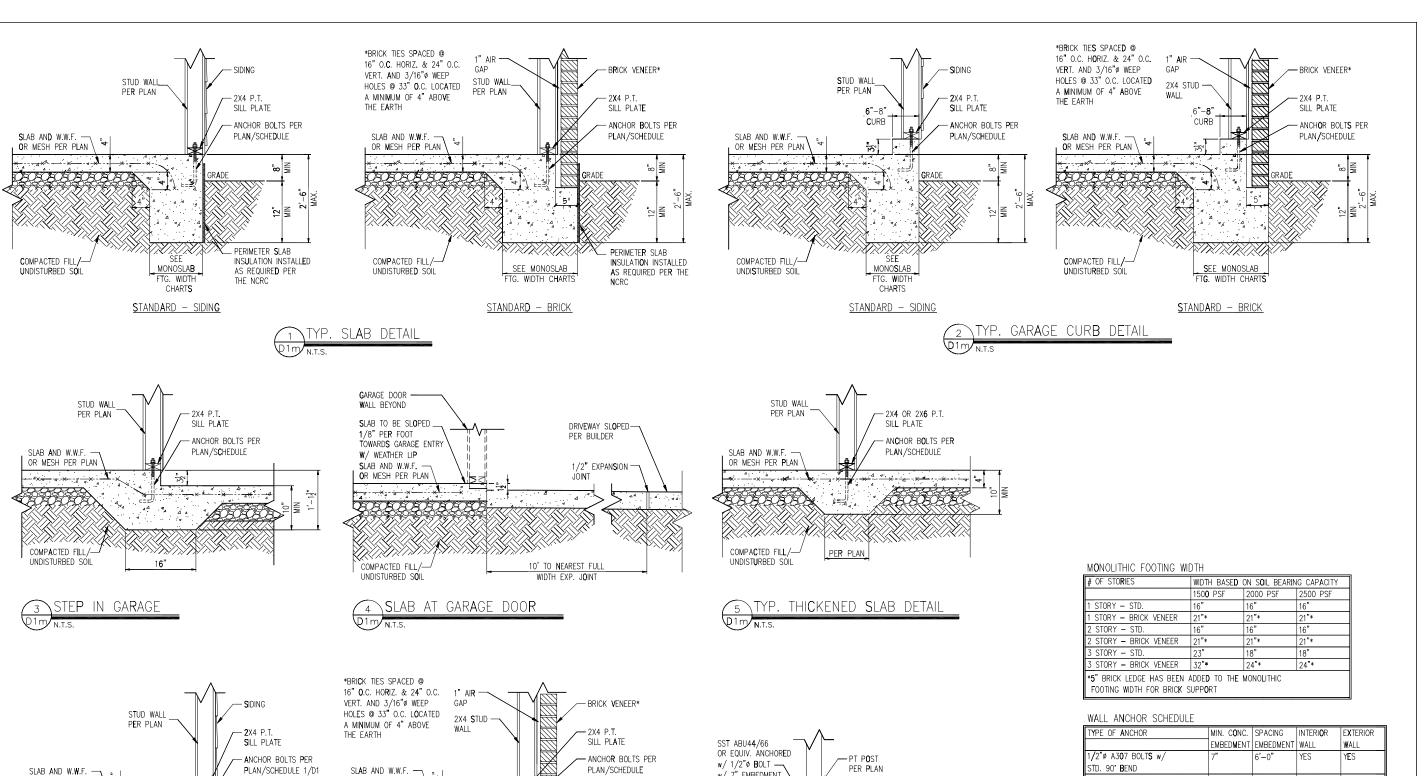


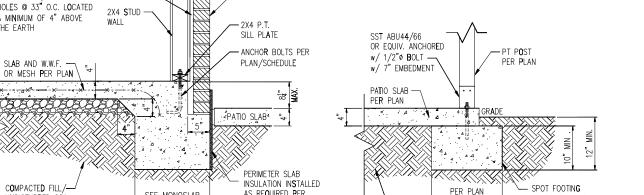
DATE: 3/2/2 8CALE: 22x34 V4"+1"-8" lbdT V8"+1"-8" PROJECT 1 P-19Ø1-1Ø DRAWN BY: LAG

CHECKED BY: WAJ

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS







AS REQUIRED PER

THE NCRC

<u>STANDARD - BRICK</u>

SEE MONOSLAB

FTG. WIDTH CHARTS

PATIO SLAB DETAIL

UNDISTURBED SOIL

- PATIO SLAB⁴

SEE

MONOSI AF

FTG WIDTH

CHARTS

STANDARD - SIDING

- PERIMETER SLAB

THE NCRC

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

AS REQUIRED PER

OR MESH PER PLAN

COMPACTED FILL/-

UNDISTURBED SOIL

6A COVERED PATIO DETAIL

- COMPACTED FILL/

UNDISTURBED SOIL

OR CONTINUOUS

LUG FOOTING PER PLAN

_	WALL ANGION SCHEDOLL				
	TYPE OF ANCHOR	MIN. CONC.	SPACING	INTERI O R	EXTERIOR
I		EMBED M ENT	EMBEDMENT	WALL	WALL
I	1/2"ø A3 0 7 BOLT S w/	7"	6'-0"	YES	YES
	STD. 90° BEND				
ı	S\$T - MAS	4"	5'-0"	NO	YES
ı	HILTI KWIK BOLT KBI 1/2-2-3/4	2-1/4"	6'-0"	YES	NO
ı	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
- 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

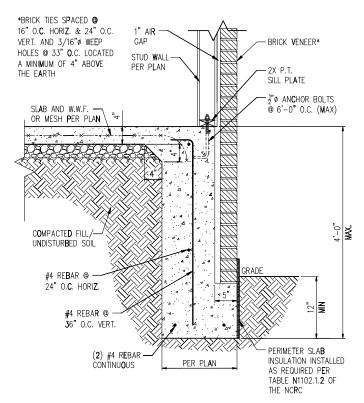
Monolithic \$



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:

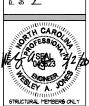
 1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
 - PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
 SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.
 - 4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR BRACED WALL PANEL LAYOUT, 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 (



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

CHECKED BY: WAJ

DRAWN BY: LAG

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D2m

SÜMMIT



Wind Ę Ę Details Foundation Slab PROJECT:
Standard Details

Monolithic:

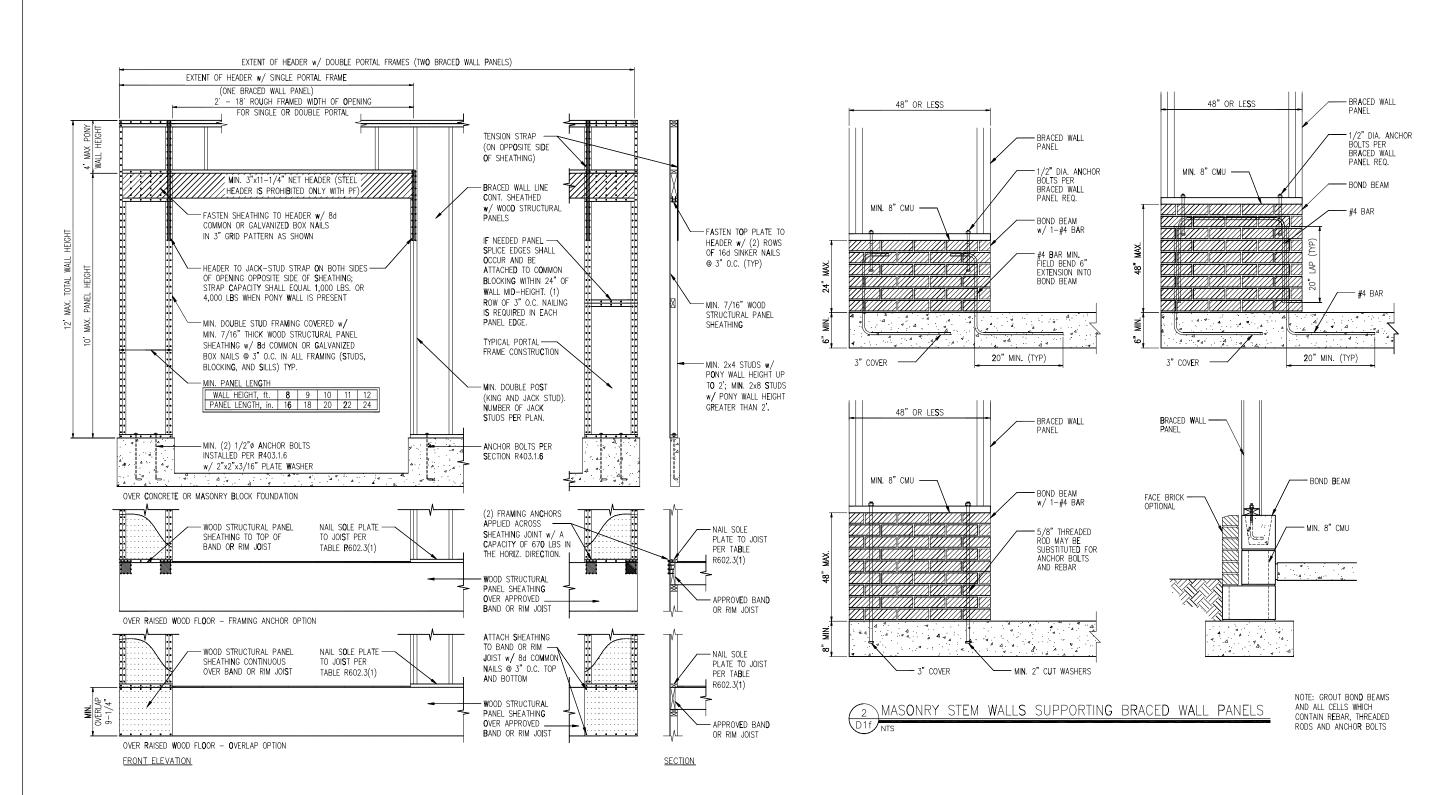
TH CARO USBAL \$/2 STRUCTURAL MEMBERS ONL

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





SÜMMIT

SUMMIT Engineering, Laboratory & Testing, P.C.

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

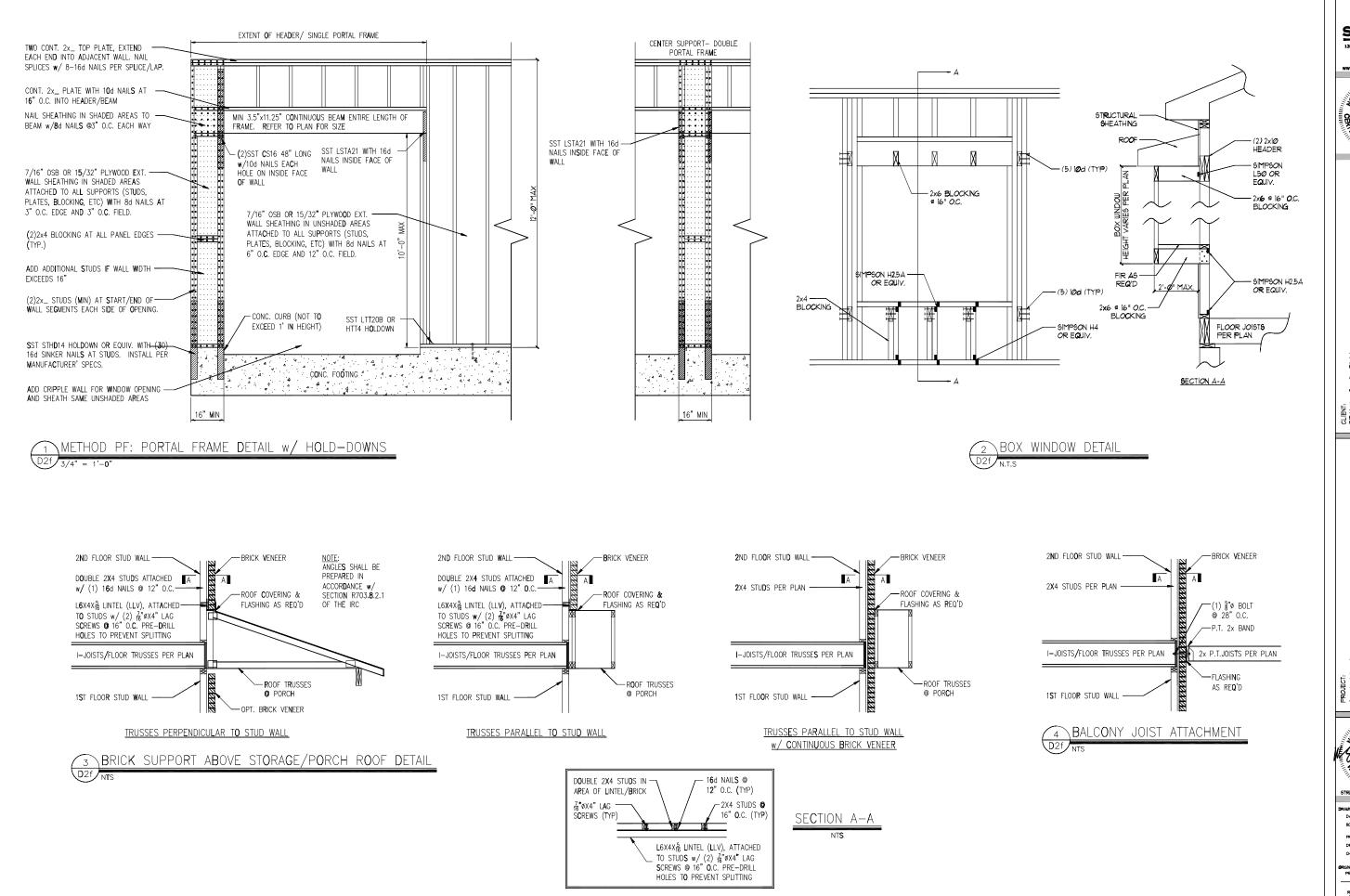


DATE: 3/2/2 8CALE: 22x34 1/4"∗1"-**8"** |bgT 1/8"∗1"-**8"** PROJECT 4 P-19Ø1-1Ø DRAIN BY: LAG CHECKED BY: WAJ

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D1f

METHOD PF: PORTAL FRAME DETAIL



SUMMIT





Detaí PROJECT: Standard Details Framing

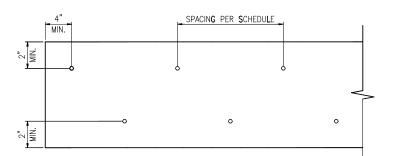


STRUCTURAL MEMBERS ONLY DATE: 3/2/2 8CALE: 22x34 1/4"∗1"-**8"** |bgT 1/8"∗1"-**8"**

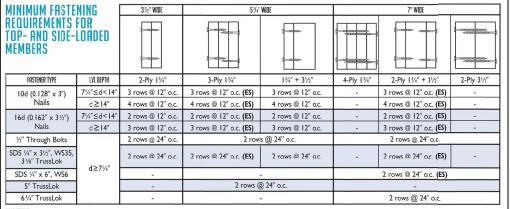
PROJECT & P-19Ø1-1ØR DRAWN BY: LAG CHECKED BY: WAJ

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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.
- - 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).

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, 2x4s @ 16" O.C.-

TOENAILED w/ (2) 16d

COMM**O**N TÓ N**A**ÍLERS

(3) 16d COMMON -

2x6 SUBFASCIA -

-2x4 NAILERS CONT.

NAILED w/ (2) 16d

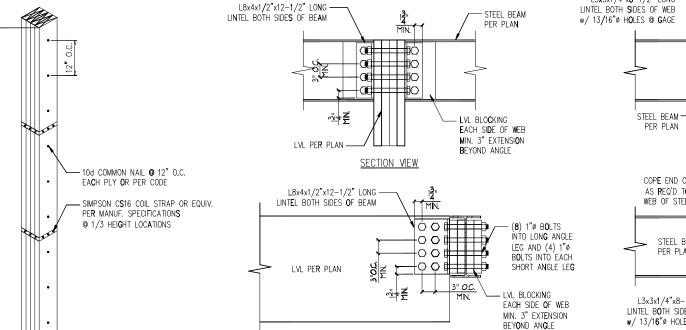
COMMON @ 16" O.C.

TO SOLID BLOCKING

OR WALL STUDS

GABLE ROOF RETURN

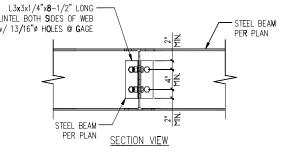


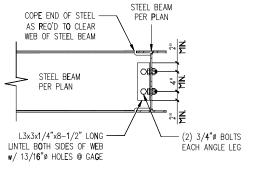






ELEVATION VIEW





ELEVATION VIEW







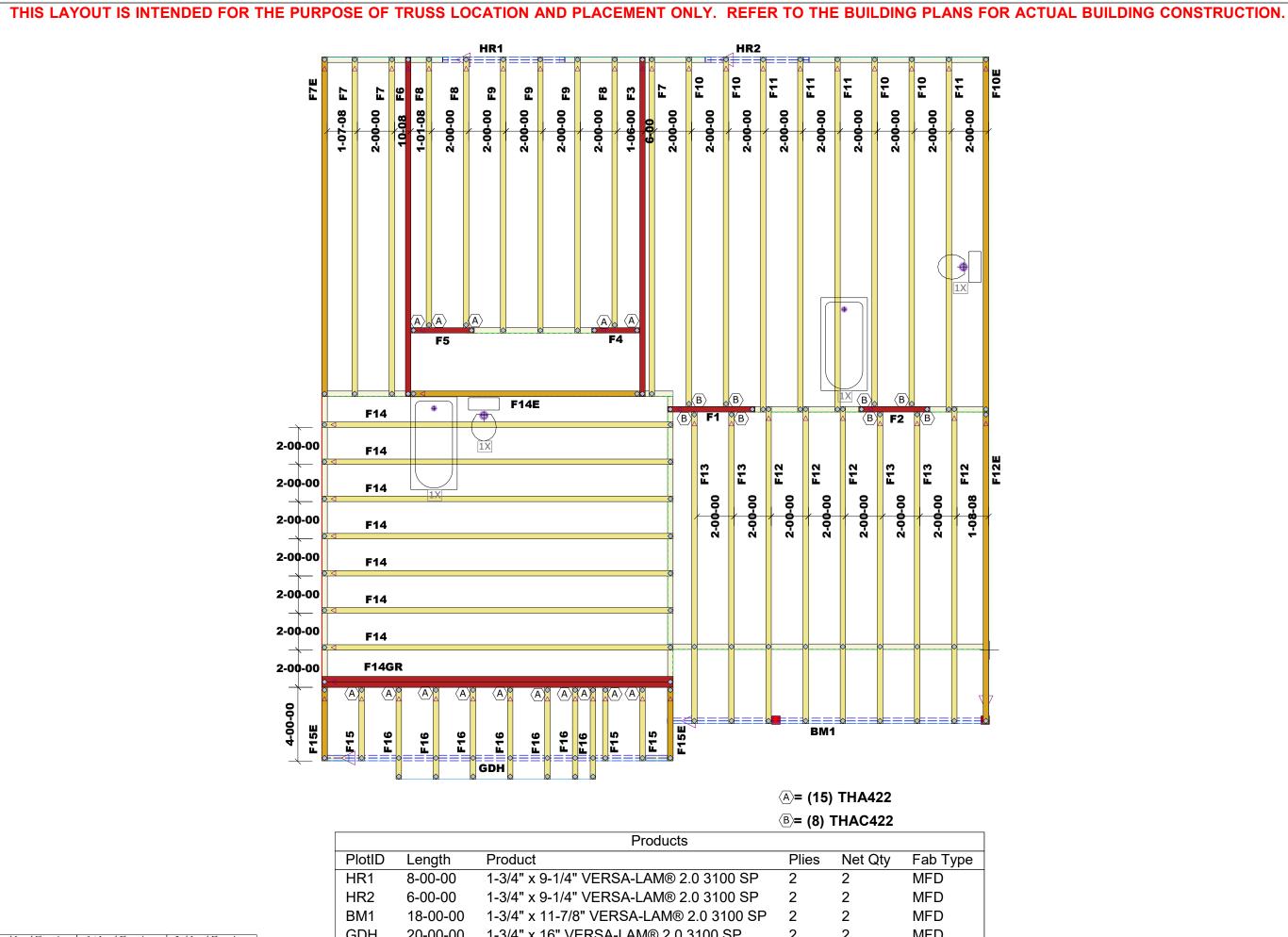
PROJECT: Standard Details Framing Details



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



DEDICATED TO QUALITY AND EXCELLENCE 200 EMMETT ROAD DUNN, NORTH CAROLINA 28334 PHONE: 910-892-8400

055

N.T.S

10/16/2017

- RAL \Box **Pinehurst** HORTON

 \mathcal{L}

 \Box

 \Box

Pinehurst

иоте #: 28295

TOP LIVE LOAD: 40.0 lb/ft²

TOP DEAD LOAD: 10.0 lb/ft² BOTTOM LIVE LOAD:

BOTTOM DEAD LOAD: 5.0 lb/ft2

- DO NOT CUT OR MODIFY TRUSSES

- TRUSSES ARE SPACED 24" ON CENTER UNLESS OTHERWISE NOTED

- REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION

OF LATERAL BRACING AND MULTI-PLY CONNECTION REQUIREMENTS.

- PER ANSI TRUS TO 17202 THE TRUSS ENGINEER IS RESPONSIBILE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLACEMENT PLAN RECOMMENDS TRUSS TO BEARING CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. TO THE RECONNECTIONS TO REAL ROOF FORCES ADEQUATELY TO THE FOUNDATION.

Products						
PlotID	Length	Product	Plies	Net Qty	Fab Type	
HR1	8-00-00	1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP	2	2	MFD	
HR2	6-00-00	1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP	2	2	MFD	
BM1	18-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	MFD	
GDH	20-00-00	1-3/4" x 16" VERSA-LAM® 2.0 3100 SP	2	2	MFD	

