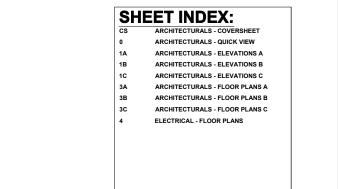
WILMINGTON - A, B, C

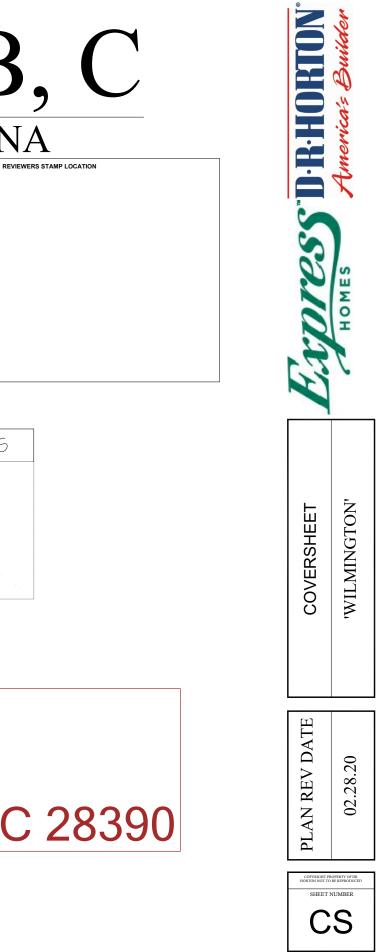
PLAN ID: 2800 - RIGHT HAND - NORTH CAROLINA

DATE:	REVISION:
09/18/2017	INITIAL RELEASE OF PLANS
10/20/2017	CLIENT REVISIONS
11/01/2017	REMOVED PORCH RAILING FROM ELEVATION 'C' FLATTENED BAR TOP AT KITCHEN REVISED SIZE OF WINDOW AT BASE OF STAIRS REVISED MASTER BEDROOM TO OWNER'S BEDROOM
02/07/2018	ELECTRICAL REVISIONS
06/11/2018	CLIENT REVISIONS
11/14/2018	CLIENT REVISIONS
01/09/2019	REVISED CODE REFERENCES
07/23/2019	CLIENT REVISIONS
12/13/2019	CLIENT REVISIONS
02/28/2020	CLIENT REVISIONS



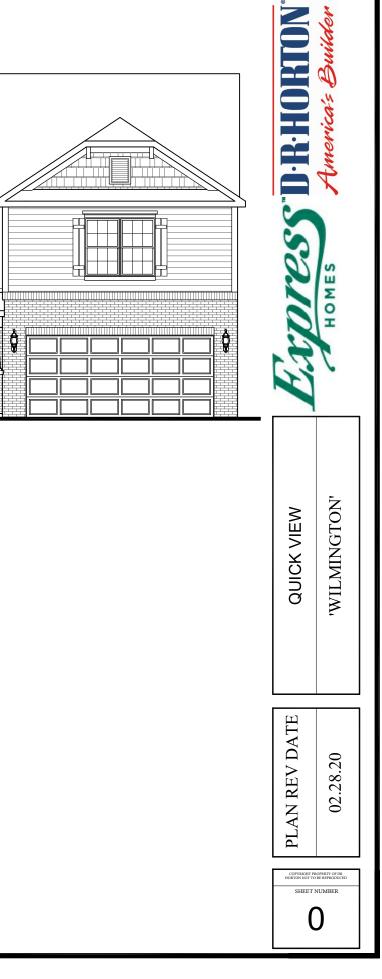
MODEL 'WILMI	NGTON' SC	RUARE FOOTAGES
AREA	ELEV 'A'	
lst FLOOR	1225 SF	
2nd FLOOR	1595 SF	
TOTAL LIVING	2824 SF	
GARAGE	411 SF	
PORCH	72 SF	

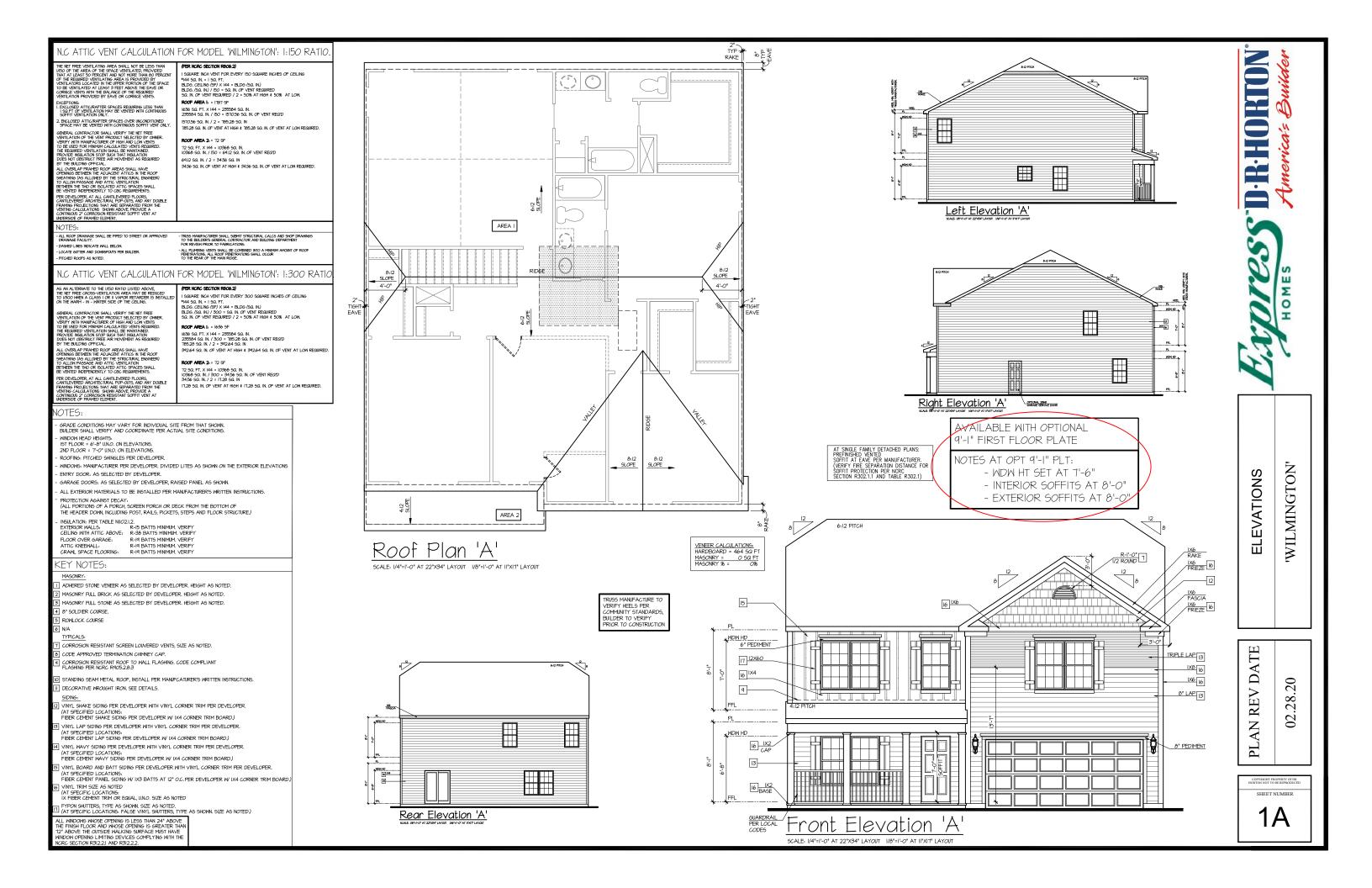
Mason Ridge Lot 33 Spring Lake, NC 28390

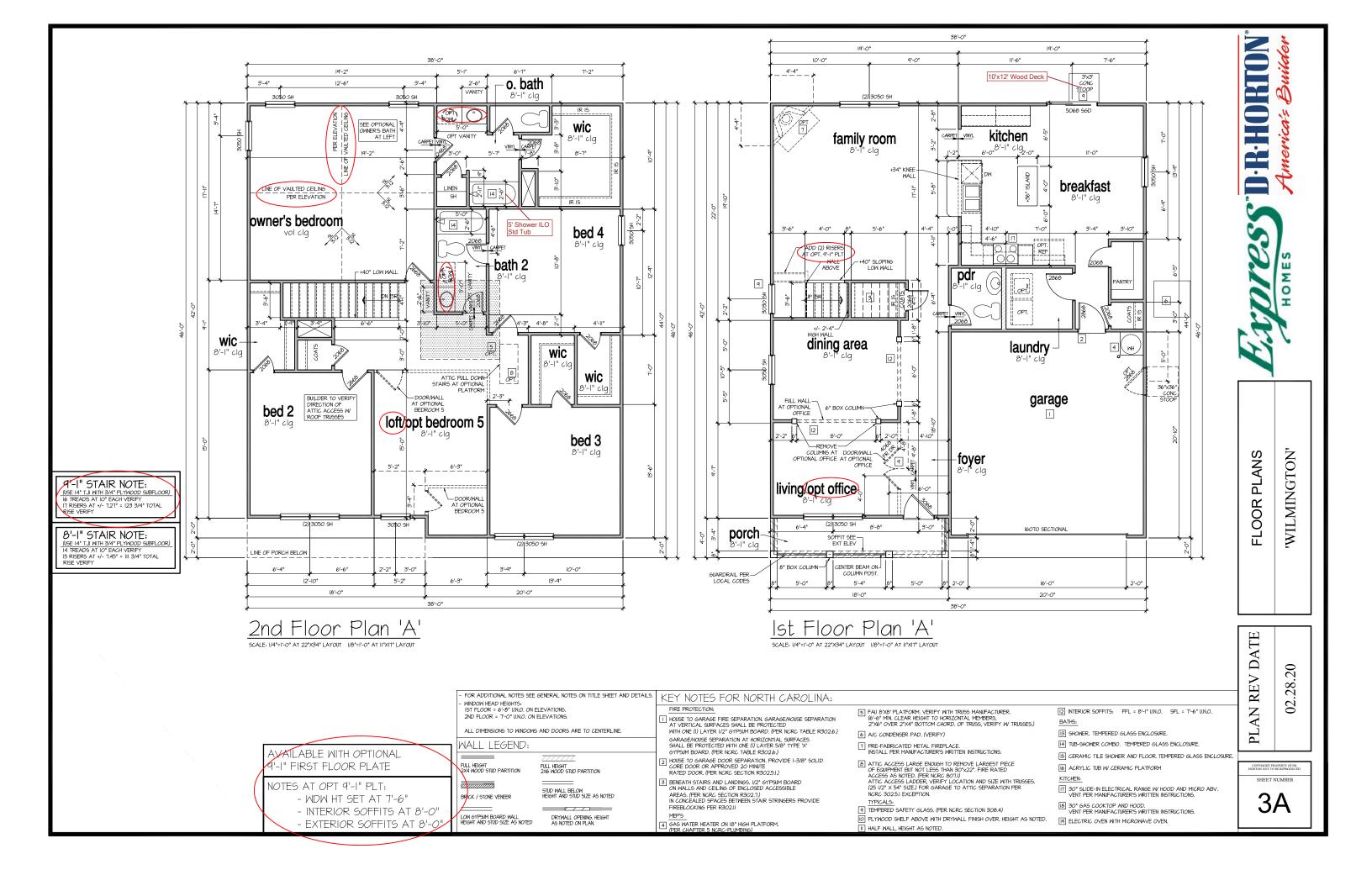


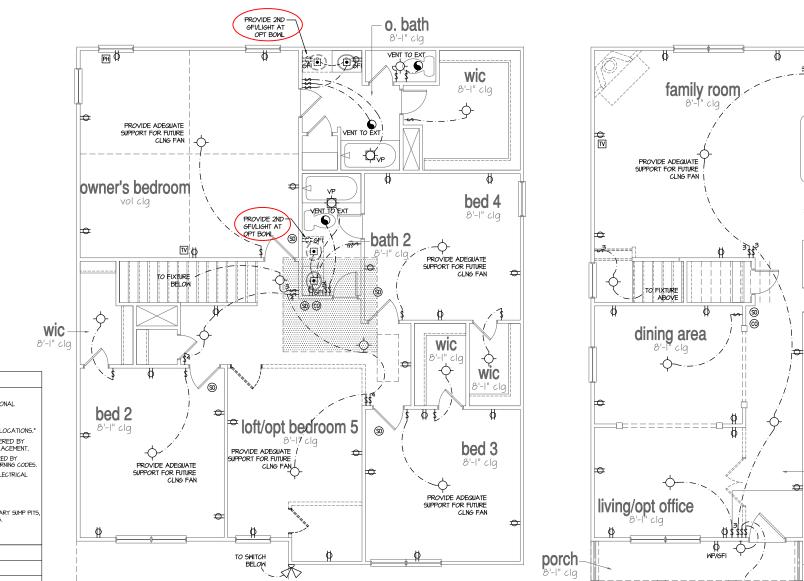












IOTES:

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.

LEGEND:

Ø	DUPLEX OUTLET	- - 	CEILING MOUNTED INCANDESCENT LIGHT FIXTURE
Фир/бғі	WEATHERPROOF GFI DUPLEX OUTLET	ŀф	WALL MOUNTED INCANDESCENT
ф <i>ы</i> ғı	GROUND-FAULT CIRCUIT-INTERRUPTER DUPLEX OUTLET		LIGHT FIXTURE RECESSED INCANDESCENT LIGHT FIXTURE
ø	HALF-SWITCHED DUPLEX OUTLET	¢-	(VP) = VAPOR PROOF
\$220√	220 VOLT OUTLET		CEILING MOUNTED LED LIGHT FIXTURE (VP) = VAPOR PROOF
0	REINFORCED JUNCTION BOX	•	EXHAUST FAN (VENT TO EXTERIOR)
\$	WALL SWITCH	-\$	EXHAUST FANLIGHT COMBINATION (VENT TO EXTERIOR)
\$3	THREE-WAY SWITCH		FLUORESCENT LIGHT FIXTURE
\$4	FOUR-WAY SWITCH		EROPERATE FOR EVEN
СН	CHIMES		TECH HUB SYSTEM
P	PUSHBUTTON SWITCH		CEILING FAN (PROVIDE ADEQUATE SUPPORT)
90	IIOV SMOKE ALARM W BATTERY BACKUP		CEILING FAN WITH INCANDESCENT
1	IIOV SMOKE ALARM CO2 DETECTOR COMBO	$ $ \mathbb{X}	(PROVIDE ADEQUATE SUPPORT)
T	THERMOSTAT		GAS SUPPLY WITH VALVE
PH	TELEPHONE	-	
٦V	TELEVISION	-++	HOSE BIBB
	ELECTRIC METER	-+ _{GN}	1/4" WATER STUB OUT
	ELECTRIC PANEL	<u>- ж</u>	
, de	DISCONNECT SWITCH	'	WALL SCONCE

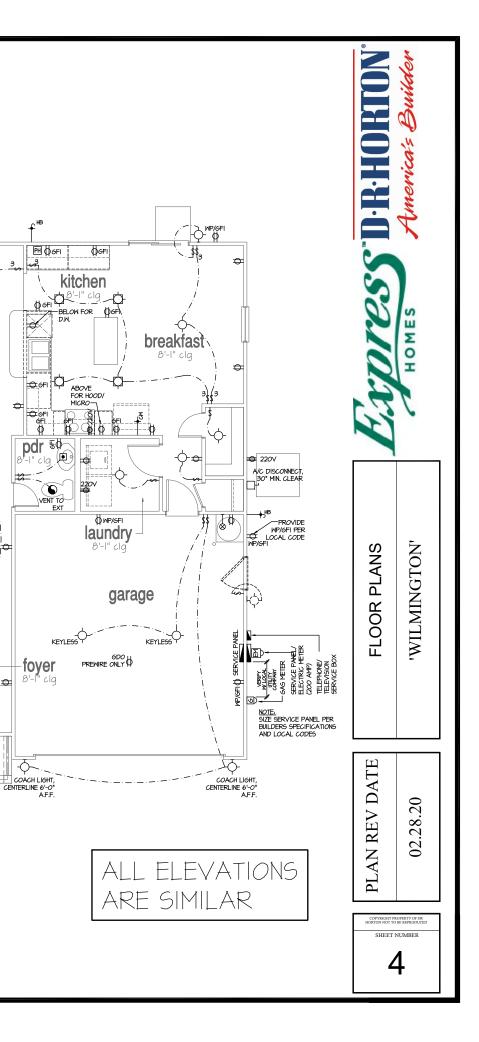




TO FLOOD ABOVE

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	DESIGN SPECIFICATIONS:				SHEET LIST:	
	Construction Type: Commerical 🗌 Residential 🛛				Sheet No.	Description
	Applicable Building Codes:				CSI SI.Øm	Cover Sheet, Specifications, Revisions Monolithic Slab Foundation
	 2018 North Carolina Residential Building Code with All Local ASCE 1-10: Minimum Design Loads for Buildings and Other St 	Amendm e nts tructures			SIØs SIØc	Stem Wall Foundation Crawl Space Foundation
	Design L o ads:				\$1.Øb	Basement Foundation
	I. Roof Live Loads II. Conventional 2x 20 P9F		sun	nmit	52.Ø 53.Ø	Båsement Plan First Floor Plan
	12. Truss 20 PSF 12.1. Attic Truss 60 PSF		SUI		54 <i>Ø</i>	Second Floor Plan
	2. Roof Dead Loade 2.1. Conventional 2x lØ P9F		engineering labo	oratory testing		Roof Framing Plan
	22. Truss 20 PSF 3. Snow 15 PSF	r				
	3.1. Importance Factor 10 4. Floor Live Loads		STRUCTURAL PLA	NS PREPARED FOR:		
	4. Typ. Dwelling 40 PSF 4.2. Sieeping Areas 30 PSF		WILMING	t <i>o</i> n - R h		
	4.3. Decks 40 PSF		PROJECT ADDRESS:	OUNER:		
	4.4. Passenger Garage 50 PSF 5. Floor Dead Loads 5.1. Convertional 2x 10 PSF		TBD	DR Horton, inc. 8001 Arrowridae Blvd.		
	5.2. I-Joist			Charlotte, NC 28213	Revision No. Dat	e Project Descri p tion
	6. Ultimate Design Wind Speed (3 sec. gust)	+	DESIGNER:		1 5.16.	.11 1261IR Revised garage slab note. Revised roof
	6.1. ExposureB 62. Importance FactorIØ		GMD Design Group 102 Fountain Brook Circle			overfr a ming. Verified roof truss layouts provided by 84 Lumber on 3.28.11. Verified floor joist layouts
	6.3. Wind Base Shear 6.3.1. VX =		Suite C Cary, NC 27511		2 6.14	.11 12611R2 Added stem wall foundation plan
	6-32.∨y = 7. Component and Cladding (in PSF)				3 423.	.18 17862 Added crawl space foundation plan
	MEAN ROOF III UP TO 30' 30'I"-35' 35'I"-40' 40	0' "-45'	electrical, and civil drawings. This coo	with the architectural, mechanical, plumbing, rdination is not the responsibility of the	4 7.10. 5 8.30	
	ZONE I 16.7,-18.0 I7.5,-18.9 18.2,-19.6 18	.1,-202	structural engineering of record (SER). apparent, the contractor shall notify SU	Should any discrepancies become MMIT Engineering, Laboratory & Testing,	6 10.5.	18 17862R3 Included stick framing option at extended porch
		1,-23.5	PC. before construction begins.	· · · · · · · · · · · · · · · · · · ·	7 II.30. 8 3.12	
	ZONE 4 182,-19.0 192,-20.0 19.9,-20.1 20	0.4,-21.3	PLAN ABBREVIATIONS:			
	ZONE 5 182,-24.0 19.2,-25.2 19.9,-26.1 20	9.4,-26.9		PT PRESSURE TREATED		
	8. Seismic 81. Site Class	、	AFF ABOVE FINISHED FLOOR CJ CEILING JOIST	RS ROOF SUPPORT SC STUD COLUMN		
	8.2. Design CategoryC		CLR CLEAR	SJ SINGLE JOIST		
	83. Importance Factorle 84. Seismic Use Group1		DJ DOUBLE JOIST DSP DOUBLE STUD POCKET	SPF SPRUCE PINE FIR SST SIMPSON STRONG-TIE		
	8.5. Spectral Response Acceleration 85.1. Sms = %g		EE EACH END EW EACH WAY	SYP SOUTHERN YELLOW PINE TJ TRIPLE JOIST		
	8.52.6ml = %g 8.6. Seismic Base Shear		NTS NOT TO SCALE	TSP TRIPLE STUD POCKET		
	86.1.∀x = 862.∨y =		OC ON CENTER PSF POUNDS PER SQUARE FOOT	TYP TYPICAL		
	8.1. B a sic Structural Syst e m (check one) ⊠ B e aring Wall		PSI POUNDS PER SQUARE INCH	WUF WELDED WIRE FABRIC		
	□ Building Fr a me □ M o ment Frame					
	□ Dual w/ Special Moment Frame □ Dual w/ Intermediate R/C or Special Stee	a	Roof truss and floor joist layouts, and were not provided to SUMMIT Enginee	ring, Laboratory & Testing, P.C. (SUMMIT)	_	
	□ Inverted Pendulum 8.8. Arch/Mech Components Anchored	0	prior to the initial design. Therefore, the based on the information provided by	DR Horton, Inc. Subsequent plan		
	89. Lateral Design Control: Seismic 🗌 Wind 🛛 9. Assumed Soil Bearing Capacity		revisions based on roof truss and floc revision list, indicating the date the la	youts were provided. Should any		
			discrepancies become apparent, the c	ontractor shall notify SUMMIT immediately.		
GENERAL 6TRUCTURAL NOTES:	2. The bottom of all footings shall extend below the frost line for	5. Concrete slabs-on-c	rade shall be constructed in accordance	9. Where reinforcing dowels are required , th		
 The design professional whose seal appears on these drawings is the structural engineer of record (SER) for this project. The CEP base the sequence of the set the structure of the set o	the region in which the structure is to be constructed. However, the bottom of all footings shall be a minimum of 12" below grade.	Construction".	Guide f o r Concrete Slab and Slab	in size and spacing to the vertical reinfor shall extend 48 bar diameters vertically a		 The wood truss manufacturer/fabricator is responsible for the design of the wood trusses. Submit sealed shop drawings at submit sealed shop drawings at
SER bears the responsibility of the primary structural elements and the performance of this structure. No other party may revise,	 Any fill shall be placed under the direction or recommendation of a licensed professional engineer. 	subgrade modulus o	n-grade has been designed using a `k=250 pci and a design loading of 200	into the fo o ting. 10. Where reinf o rcing ste e l is required verti c a	ally, dowels shall b e	supporting calculations to the SER for review prior to fabrication. The SER shall have a minimum of five (5) days for
alter, or delete any structural aspects of these construction documents without written permission of SUMMIT Engineering,	 The resulting soil shall be compacted to a minimum of 95% maximum dry density. 	cracking or other fut	responsible for differential settlement, slab ure defects resulting from unreported	provided unless otherwise noted. <u>WOOD FRAMING:</u>		review. The review by the SER shall review for overall compliance with the design documents. The SER shall assume
Laboratory 4 Testing, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT	 Excavations of footings shall be lined temporarily with a 6 mil polyethylene membrane if placement of concrete does not occur 	 Control or saw cut jo 	cordance with the above assumptions, pints shall be spaced in interior	 Solid sawn wood framing members shall con specifications listed in the latest edition 	of the "National	responsibility for the correctness for the structural design f the wood trusses.
shall be considered the same entity. 2. The structure is only stable in its completed form. The contractor	within 24 hours of excavation. 6. No concrete shall be placed against any subgrade containing		maximum of 15'-0" O.C. and in exterior maximum of 10'-0" unless otherwise noted.	Design Specification for Wood Constructi otherwise noted, all wood framing members	are designed to be	 The wood trusses shall be designed for all required loading as specified in the local building code, the ASCE Standard
shall provide all required temporary bracing during construction to stabilize the structure.	water, ic e , frost, o r loose m a terial.		pints shall be produced using conventional 2 hours after the slab has been finished	Southern-Yellow-Pine (SYP) 2 or Southrn- 2. LVL or PSL engineered wood shall have t		"Minimum Design Loads for Buildings and Other Structures." (ASCE 7-10), and the loading requirements shown on these
 The SER is not responsible for construction sequences, methods, or techniques in connection with the construction of this 	STRUCTURAL STEEL: 1. Structural steel shall be fabricated and erected in accordance	9. Reinforcing steel ma	y not extend through a control joint. y extend through a saw cut joint.	d e sign ∨alu e s: 2.I. E = 1,9 <i>00,00</i> 0 psi	5	specifications. The truss drawings shall be coordinated with other construction documents and provisions provided for
structure. The SER will not be held responsible for the	with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and the	10. All welded wire fabr	c (WWF.) for concrete slabs-on-grade shall epth of slab. The WWF. shall be securely	22. Fb = 2600 psi 2.3. Fv = 285 psi		loads shown on these drawings including but not limited to HVAC equipment, piping, and architectural fixtures attached
CONTRACTOR TATILITE LO CONTOTTI LO TRE CONTRACT DOCUMENTS.		supported during the		2.4.Fc = 700 psi	r earth shall be	the trusses. 3. The trusses shall be designed, fabricated, and erected in
contractor's failure to conform to the contract documents, should any non-conformities occur. Any structural elements or details not fully developed on the	manual of Steel Construction "Load Resistance Factor Design" latest editions			1.1.3 Illood in contact with concrete masonry or		accordance with the latest edition of the "National Design
should any non-conformities occur. 4. Any structural elements or details not fully developed on the construction drawings shall be completed under the direction of	latest editions. 2. Structural steel shall receive one coat of shop applied			 Wood in contact with concrete, masonry, or pressure treated in accordance with AWPA states residues exceed shall be to 		6 Section for Illood Contraction (NDG) and Design
should any non-conformities occur. 4. 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.	latest editions. 2. Structural steel shall receive one coat of shop applied rust-inhibitive paint. 3. All steel shall have a minimum yield stress (F ₄) of 36 ksi unless	 Fibrous concrete rein concrete slabs-on-g 	nforcement, or fibermesh, specified in rade may be used for control of cracking	pressure treated in accordance with AUPA other moisture exposed wood shall be tre with AUPA standard C-2	eated in accorda n ce	Specification for Wood Construction." (NDS) and "Design Specification for Metal Plate Connected Wood Trusses."
should any non-conformities occur. 4. 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	 latest editions. Structural steel shall receive one coat of shop applied rust-inhibitive paint. All steel shall have a minimum yield stress (Fy) of 36 ksi unless otherwise noted. Wielding shall conform to the latest edition of the American 	 Fibrous concrete rein concrete slabs-on-g due to shrinkage and water migration, an in 	rforcement, or fibermesh, specified in rade mäy be used for control of cracking it hermal expansion/contraction, lowered crease in impact capacity, increased	pressure treated in accordance with AUPA other moisture exposed wood shall be tre with AUPA standard C-2 4. Natis shall be common wire rails unless othe 5. Lag screws shall conform to ANSI/ASME st	eated in accordance erwise noted. Landard B182.1-1981.	Specification for Metal Plate Connected Wood Trusses." 4. The truss manufacturer shall provide adequate bracing information in accordance with "Commentary and
should any non-conformities occur. 4. 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 continons, is not the responsibility of the SER or SUMMIT.	 latest editions. Structural steel shall receive one coat of shop applied rust-inhibitive paint. All steel shall have a minimum yield stress (F₂) of 36 ksi unless otherwise noted. Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AW\$ DII. Electrodes for shop and field welding shall be class El@XX. All welding 	 Fibrous concrete reil concrete slabs-on-g due to shrinkage and water migration, an in abrasion resistance, Fibermesh reinforcing 	iforcement, or fibermesh, specified in rade may be used for control of cracking it hermal expansion/contraction, lowered crease in Impact capacity, increased and residual strength. to be 100% virgin polypropylene fibers	 pressure treated in accordance with AWP, other molecular exposed wood shall be tre with AWPA standard C-2 Nalls shall be common wire nails unless othe Lag screws shall conform to ANSI/ASHE st Lead holes for lag screws shall be in according specifications. 	eated in accordance erwise noted. tandard B182.1-1981. ordanc e with ND5	 Specification for Metal Plate Connected Wood Trusses.¹ The truss manufacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Meta Plate Connected Wood Trusses" (HIB-9). This bracing, both
should any non-conformities occur. 4. Any structural elements or details not fully developed on the constructural 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 drawing for dimensions, or for actual field conditions, is not the responsibility of the SER or SUMMIT. 5. Verification of assumed field conditions is not the responsibility of the SER. The contractor shall verify the field conditions for	 latest editions. Structural steel shall receive one coat of shop applied rust-inhibitive paint. All steel shall have a minimum yield stress (F_g) of 36 ksi unless otherwise noted. Welding shall conform to the latest edition of the American Welding Societty's Structural Welding Code AWS DII. Electrodes 	 Fibrous concrete reil concrete alabs-on- due to shrinkage and water migration, an in abrasion resistance, Fibermesh reinforcing containing no reproc manufactured for use 	iforcement, or fibermesh, specified in rade may be used for control of cracking it hermal expansion/contraction, lowered crease in impact capacity, increased and residual strength. I to be 100% virgin polypropylene fibers essed olefin materials and specifically as concrete secondary reinforcement.	 pressure treated in accordance uith AUPA other moisture exposed wood shall be tre with AUPA standard C-2 Nalls shall be common wire nalls unless other Legs crews shall conform to ANSI/ASME at Lega holes for lag screws shall be in according to the standard shall be and holes other and the shall be arring on support unless otherwise noted. 	eated in accordance erwise noted. Landard B182.1-1981. ordance with NDS orting framing members	Specification for Metal Plate Connected Wood Trusses. ⁴ 4. The truss manufacturer shall provide adequate bracing information in accordance uith Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses. ⁴ (HIB-91). This bracing, both temporary and permanent, shall be shown on the shop drawin Allso, the shop drawings shall show the required attachment
should any non-conformities occur. 4. Any structural elements or details not fully developed on the construction drauings shall be completed under the direction of a licensed professional engineer. These shop drauings shall be submitted to SUMMIT for review before any construction begins. The shop drauings will be reviewed for overall compliance as it relates to the structural design of this project. Verification of the shop drauing of dimensions, or for actual field conditions, is not the responsibility of the SER or SUMMIT. 5. Verification of assume 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.	 latest editions. Structural steel shall receive one coat of shop applied rust-inhibitive paint. All steel shall have a minimum yield stress (F₂) of 36 ksi unless otherwise noted. Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS DII. Electrodes for shop and field welding shall be class ET/0XX. All welding shall be performed by a certified welder per the above standards. CONCRETE: 	Fibrous concrete relia concrete slabs-on- due to shrinkage and water migration, an in abrasion resistance, Fibermesh reinforcing containing no reproo manufactured for use Application of fibern a minimum of 0,% by:	iforcement, or fibermesh, specified in rade may be used for control of cracking it hermal expansion/contraction, lowered crease in impact capacity, increased and residual strength. I to be 200% virgin polypropylene fibers essed olefin materials and epocifically as concrete secondary reinforcement, nesh per cubic yard of concrete shall equal volume (16 pounds per cubic yard)	 pressure treated in accordance with AUPA other moisture exposed wood shall be tre with AUPA standard C-2 Nails shall be common wire nails unless other b. Lag acreus shall conform to ANSI/ASHE at Lead holes for lag screus shall be in accuspecifications. All beams shall have full bearing on support unless otherwise noted. Exterior and load bearing stud walls are t OC, unless otherwise noted. 	eated in accordance erwise noted. Landard B182,1-1981. ordance with NDS orting framing members to be 2x4 SYP 12 = 16" s continuous from the	 Specification for Metal Plate Corrected Wood Trusses." The truss manifacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-9). This bracing, both temporary and permanent, shall be shown on the shop drawing Also, the shop drawings shall show the required attachments the trusses. Any chords or truss webs shown on these drawings have been
 should any non-conformities occur. Any structural elements or details not fully developed on the construction draulings shall be completed under the direction of a licensed professional engineer. These shop draulings shall be submitted to SUMMIT for review before any construction begins. The shop draulings will be reviewed for overall compliance as it relates to the structural design of this project. Verification of the shop draulings for dimensions, or for actual field conditions, is not the responsibility of the SER or SUMMIT. Verification of assume 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 sements specifically 	 latest editions. Structural steel shall receive one coat of shop applied rust-inhibitive paint. All steel shall have a minimum yield stress (F₂) of 36 ksl unless otherwise noted. Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AWS DII. Electrodes for shop and field welding shall be class El20XX. All welding shall be performed by a certified welder per the above standards. CONCRETE: Concrete shall have a normal weight aggregate and a minimum compressive strength (F₂) at 28 days of 30000 psl, unless 	Fibrous concrete reil concrete alabs-one due to shrinkage and water migration, an in abrasion resistance, Fibermesh reinforcing containing no reproc manufactured for use Application of fiber a minimum of 0% by Fibermesh shall comp requirements, and shall	Increment, or fibermesh, specified in rade may be used for control of cracking it hermal expansion/contraction, lowered crease in Impact capacity, increased and residual strength. to be 100% virgin polypropylene fibers essed olefin materials and specifically as concrete secondary reinforcement, nesh per cubic yard of concrete shall equal	 pressure trasted in accordance with AUPA other moisture exposed wood shall be tre with AUPA standard C-2 Nalls shall be common wire nails unless other became and conform to ANSI/ASHE at Lead holes for lag screws shall be in according to a specifications. All beams shall have full bearing on support unless otherwise noted. Exterior and load bearing studiualis are t OC, unless otherwise noted. Studies shall be as size plate to the double top plate. Studies for lag screws hall be and discontinuous at headers for unloss. 	eated in accordance erwise noted. Landard B1821-1981 ordance with NDS orting framing members to be 2x4 SYP 72 e 16" e continuous from the is shall only be openings. A minimum	 Specification for Metal Plate Corrected Wood Trusses." The truss manifacturer shall provide adequate bracing information in accordance with "Commentary and Recommendations for Handling, Installing, and Bracing Metal Plate Connected Wood Trusses" (HIB-9). This bracing, both temporary and permanent, shall be shown on the shop drawing Also, the shop drawings shall show the required attachments the trusses. Any chords or truss webs shown on these drawings have been
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3. 4.	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 supposes and attached to its supporting roof framing with (1)-8d CC nail at 6% or a place ledges and at 12% or lineal field unless	
5.	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 elips or lumber blocking unless otherwise noted. Panel end joints shall ocur over framing. Apply building paper over the sheathing as required by the state Building Code. Wood floor sheathing shall be APA rated sheathing exposure 1 Wood floor sheathing shall be APA rated sheathing exposure 1 Wood floor sheathing shall be APA rated sheathing exposure 1 Right hall at 6'o/c at panel edges and at 12'o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing, Sheathing shall be 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 a required by the state Building Code. Sheathing shall have a lo [®] gap at panel ends and edges as recommended in accordance with the APA.	
61R	UCTURAL FIBERBOARD PANELS:	5TRL
l.	Fabrication and placement of structural fiberboard sheathing shall be in accordance with the applicable AFA standards.	
2.	All structurally required liberboard sheathing shall bear the	24
3.	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 bitmentions.	80 19 29
4.	information. Sheathing shall have a 1/8" gap at panel ends and edges are recommended in accordance with the AFA.	
		-

SUBJECT COMPARED TO THE COMPAR	
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ect. gian - RH oversheet	
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FOUND ATION NOTES:

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL
- AMENDMENTS.
- 3.
- AMENDMENTS, STRUCTURAL CONCRETE TO BE F.2 = 30000 PSI, PREPARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318. FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE ENFORCEMENT OFFICIAL. FOOTING SIZES BASED ON A PRESUMPTIVE SOIL BEARING CAPACITY OF
- 4 2000 PSE. CONTRACTOR IS SOLLELY RESPONSIBLE FOR VERIFING THE SUITABILITY OF THE SITE SOLL 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.
- REVIEW FOUNDATION WATERFRACEING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.
 PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH
- CAROLINA RESIDENTIAL BUILDING CODE. 10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK
- VENEERS.
- CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS. CRAUL OF ALL DE GRADED LEVEL, AND CLEARED OF ALL DEBRIS. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2016 NORTH CAROLINA RESIDENTIAL CODE SECTION R40316, MINIMUM [2]* DIA BOLTS SPACED AT 6'-0" ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE IN FROM THE END OR EACH PLATE SECTION. INIMIMI (2) ANCHOR BOLTS SHALL BE IN FROM THE END OR EACH PLATE SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE. ABBREVIATIONS:

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

10. ALL PIERS TO BE 16"x16" MASONRY AND ALL PILASTERS TO BE 8"x16"

- MASONRY, TYPICAL. (UNO) WALL FOOTINGS TO BE CONTINUOUS CONCRETE, SIZES PER STRUCTURAL PLAN. 12. A FOUNDATION EXCAVATION OBSERVATION SHOULD BE CONDUCTED BY A REPRESSIONAL GEOTECHNICAL ENGINEER, OR HIS QUALIFIED REPRESSIONAL 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. 13.
- ALL FOOTINGS & SLABS ARE TO BEAR ON UNDISTURBED SOLL 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, R602.108(1) AND R602.108(2) OF THE 2015 IRC

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

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

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

BEAM POCKETS MAY BE SUBSTITUTED FOR MASONRY

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

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

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH HEGE FLAND AND BEOMANDE BOTH ACCIVICATION CONTINUES WITH ARCHITECTURAL PLANG PROVIDED BY <u>DR HORTON</u> COMPLETED/REVISED ON <u>02/08/2020</u> 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 4 TESTING, P.C. CANNOT GUARANTEE THE ADEQUACY OF THESE STRUCTURAL PLANS WHEN USED WITH ARCHITECTURAL PLANS DATED DIFFERENTLY THAN THE DATE LISTED ABOVE.

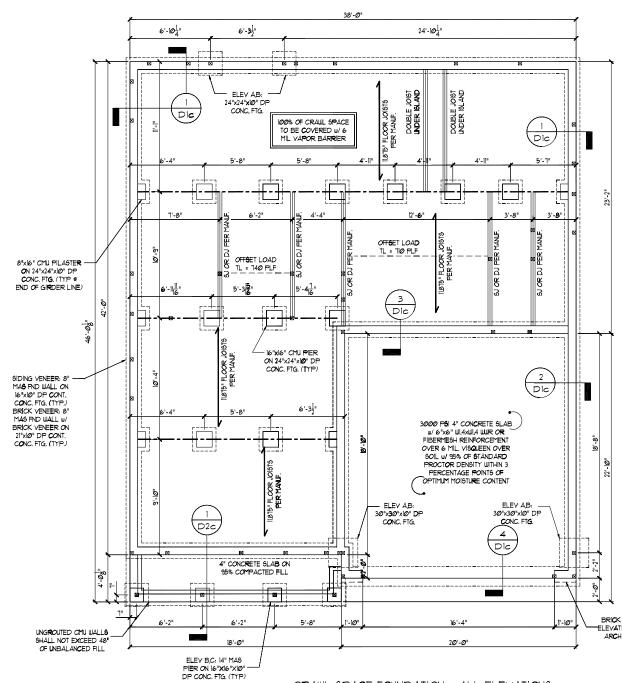
STRUCTURAL MEMBERS ONLY

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.

CRAWL SPACE FOUNDATION PLAN

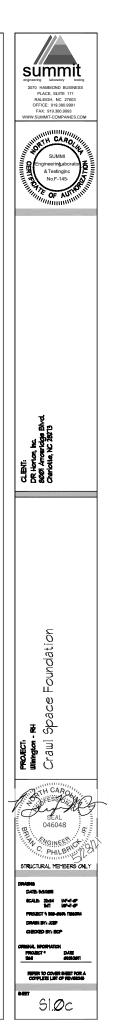
SCALE: 1/4"=1'-0" ON 22"x34" OR 1/8"=1'-0" ON 11"x17



CRAWL SPACE FOUNDATION - ALL ELEVATIONS

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

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



BRICK VENEER PER ELEVATION (REFER TO ARCHITECTURALS)

	REQUIRED	BRACED W	ALL PANEL CONNEC	CTIONS
	MATERIAL MIN. THICKNESS		REQUIRED CONNECTION	
METHOD		MIN. THICKNESS	PANEL EDGES	· INTERMEDIATE SUPPORTS
C \$- WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS * 6" 0 .C.	6d COMMON NAILS @ 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"	6 d COMMON NAILS ◎ 6" 0 .C.	6d COMMON NAIL S @ 12" O.C.
PF	WOOD STRUCTURAL PANEL	1/16"	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 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 FRONT 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: MICROLLAW (19/L), $F_0 = 3200$ PSI, $F_0 = 235$ PSI, $E = 13x/0^6$ PSI PARALLAW (19/L), $F_0 = 3200$ PSI, $F_0 = 235$ PSI, $E = 13x/0^6$ PSI ALL WOOD MEMBERS SHALL BE '0 STP/? SPF (NLESS NOTED ON PLAN. ALL STUD COLLING AND JOISTS SHALL BE '0 STP/? SPF (NO.). ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 '2 STP/? SPF STUD COLLING AT EACH END IN ESS NOTED OTHER WITH

- ALL PEUR SUMMED BUILD WITH A COVER OF 2 STY 2 ST
- FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH FOUNDATION ANOTORAGE SHALL BE CONSTRUCTED FERT HE 200 NORTH CAROLINA RESIDENTIAL CODE SECTION R40316. MINIMUM V2" 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 FLATE SECTION ANCHOR BALTS SHALL SECTION MINIMUM (2) ANCHOR BOLTS FER FLATE SECTION ANCHOR BALTS SHALL SELECATED IN THE CENTER THIRD OF THE FLATE. CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN FERFENDIQULAR TO RAFTERS.
- ID. FLITCH BEAMS, 4-PLY LVLS AND 3-PLY SIDE LOADED LVLS SHALL BE BOLTED TOGETHER WITH I/2" DIA. THRU BOLTS SPACED AT 24" OC. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL I/D3", MIN. EDGE DISTANCE SHALL BE 2" AND (2) BOLTS SHALL BE LOCATED MINIMUM 6" ROM EACH END OF THE BEAM.
- ALL NON-LOAD BEARING HEADERS HALL BE (1) FLAT EACH EIND OF THE DEAT I. ALL NON-LOAD BEARING HEADERS HALL BE (1) FLAT 224 STP (2)(69°F (2), 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 224
- SYP \$2/SPF \$2, DROPPED. (UNLESS NOTED OTHERWISE) 12 ABBREVIATIONS:

DJ = DOUBLE JOIST SJ = SINGLE JOIST FT = FLOOR TRUGG GT = GIRDER TRUSS

R = DOUDLE RAFIE
R = TRIPLE RAFTER
C = ON CENTER
l = P oint Lo a d

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.

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

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH HACCHTECTURAL PLANG PROVIDED BY <u>DR HORTON</u> COMPLETED/REVISED ON <u>02/20/20/0</u>, 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 PROB 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.

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

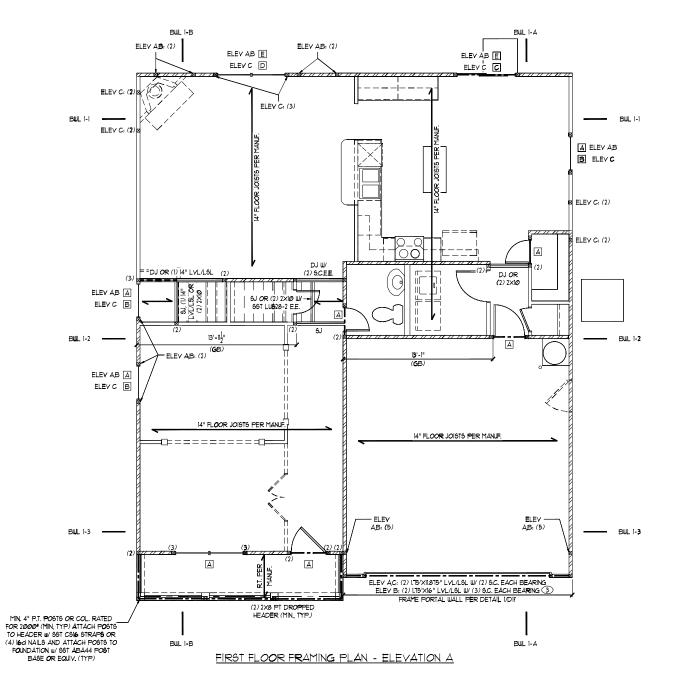
NOTE: REDUCE JOIST SPACING UNDER TILE FLOORS. GRANITE COUNTERTOPS AND/OR ISLANDS.

STRUCTURAL MEMBERS ONLY ENGINEERING SEAL APPLIES ONLY TO STRUCTURAL 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, FAILURE TO DO SO WILL VOID SUMMIT LIABILITY. P.C.

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN

SCALE: 1/4"=1"-0" ON 22"x34" OR 1/8"=1"-0" ON 11"x11"



FIRST FLOOR BRACING (FT)				
CONTIN	NUOUS SHEATHING M	etho d		
	REQUIRED PROVIDED			
BUL 1-1	4.8	26.5		
BWL 1-2	4.8	13.5		
BWL 1-3 4.3 13.1				
BWL I-A	11.5	41.0		
BWL 1-B 115 36.0				

	ULE
TAG SIZE	
(2) 2x6	(1)
(2) 2x8	(2)
(2) 2x1Ø	(2)
(2) 2x12	(2)
(2) 9-1/4" L6L/LVL	(3)
(3) 2x6	(1)
(3) 2x8	(2)
(3) 2x1Ø	(2)
(3) 2x12	(2)
	(2) 2×6 (2) 2×8 (2) 2×8 (2) 2×10 (2) 2×12 (2) 3-1/4" L5L/LVL (3) 2×6 (3) 2×8 (3) 2×10

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		
⊺ A G	SIZE	OPPENING SIZE
Θ	L3x3x1/4"	LES S THAN 6'-0"
\odot	L5x3x1/4"	6'- 0 " TO 10'-0"
3	L5x3-1/2"x5/16"	GREATER THAN 10'-0"
4	L5x3-1/2"x5/16" ROLLED OR EQUIV.	ALL ARCHED OPENINGS
SECURE LINTEL TO HEADER w/ (2) 1/2" DIAMETER LAG SCREWS STAGGERED @ 16" O.C. (TYP FOR (3))		

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

WALL STUD SCHEDULE

 IST € 2ND FLOOR LOAD BEARING STUDS:

 2x4 STUDS ● 16" 0C. CR 2x6 STUDS ● 24" 0C.

 15T FLOOR LOAD BEARING STUDS ● 1/" 0C.

 2x4 STUDS ● 12" 0C. CR 2x6 STUDS ● 16" 0C.

 BASEMENT LOAD BEARING STUDS ● 16" 0C.

 2x4 STUDS ● 12" 0C. CR 2x6 STUDS ● 16" 0C.

 2x4 STUDS ● 12" 0C. CR 2x6 STUDS ● 16" 0C.
 NON-LOAD BEARING STUDE (ALL FLOORS): 2x4 STUDE # 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

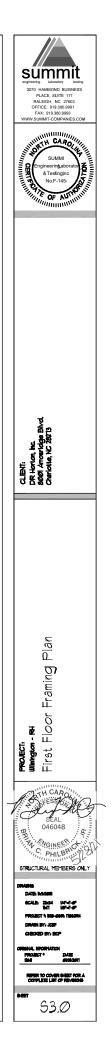
KING STUD REQUIREMENTS		
OPENING WIDTH	KINGS (EACH END)	
LESS THAN 3'-@"	(1)	
3'-Ø TO 4'-Ø"	(2)	
4'-Ø" TO 8'-Ø"	(3)	
8'-0" TO 12'-0"	(5)	
12'-Ø" TO 16'-Ø"	(6)	
KING STUD REQUIREMENTS ABOVE DO NOT APPLY TO PORTAL FRAMED OPENINGS		

BRACED WALL NOTES:

- WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOUED PER SECTION R60210 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 2
- SITES
- BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH INC TABLE R602.04.
 ALL BRACED WALL PANELS SHALL BE FULL WALL HEIGHT AND
- ALL DOGLE WELF IN THE OF THE LOCATED PAKEL HETHOD AND IS SHALL NOT EXCEED IN FEET FOR ISOLATED PAKEL HETHOD AND IS FEET FOR CONTINUOS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS. MINIMUM PAKEL LENGTH SHALL BE PER TABLE R602.005.
- THE INTERCE ENGINE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- 1/2 GTHOUT BOARD (UND). FOR CONTINUOUS SHEATHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATHABLE SURFACES INCLUDING INFILL AREAS BETWEEN BRACED WALL PANELS, ABOVE AND BELOW WALL OFBINKS, AND ON GABLE END WALLS.
- CHENICS, AND ON GABLE END WALLS.
 FLOORS SHALL NOT BE CANTLEYERED 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.
- EACH END OF A BRACED WALL LINE. 10. THE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS SHALL NOT EXCEED 20 FET. 11. MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE REQ2109 OF THE 2015 IRC. 12. BRACED WALL PANEL CONNECTIONS TO FLOOR/CELING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION BAD
- CONSTRUCTED IN ACCORDANCE WITH SECTION R602.08
- 13. BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.32 AND FIGURES R602.10.8(1)4(2)4(3). 14. CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE
- DESIGNED IN ACCORDANCE WITH SECTION R602.011 PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.6.4 (UNO)
- 16. ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS. ABBREVIATIONS:

GB = GYPSUM BOARD USP = WOOD STRUCTURAL PANEL

C3-XXX = CONT. 3HEATHED ENG = ENGINEERED 30LUTION PF = PORTAL FRAME PF-ENG = ENG. PORTAL FRAME



	REQUIRED	BRACED W.	ALL PANEL CONNE	CTI O NS
REQUIRED CONNECTION			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 9 ** @ 1" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS ⊕ 12" O.C.
PF	WOOD STRUCTURAL PANEL	7/16"	PER FIGURE R602.10.6.4	PER FIGURE R602.106.4

GENERAL STRUCTURAL NOTES:

- CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
- CODIE WITH ALL LOCAL ATENDITENTS. CONTRACTOR SHALL VERITY ALL DIMENSIONS, CONTRACTOR SHALL COMPLY WITH THE CONTENTS OF THE DRAWING FOR THIS SPECIFIC PROJECT. ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THIS PLAN.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED 3.
- TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION. PROPERTIES USED IN THE DESIGN ARE AS FOLLOUS:
- $\begin{array}{l} \label{eq:constraints} \begin{array}{l} \mbox{Here} {\rm Display} = {\rm Display} {\rm Di$

- EACH END UNLESS NOTED OTHERWISE
- ALL RENFORCING 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 BE CONDITIONED FER INTERNATION ANCHOR BOLTS SPACED CAROLINA REDIBENTIAL CODE SECTION R40316 MINIMUM 1/2 "DIA BOLTS SPACED AT 6-0" ON CENTER WITH A T" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE UP "ROM 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. 9. CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN PERPENDICULAR TO RAFTERS.
- I FIITCH DULLAR TO KAPTERS. 10. FIITCH BATHS, 4-PLY LVLS AND 3-PLY SIDE LOADED LVLS SHALL BE BOLTED TOGETHER WITH I/II" DIA THRU BOLTS SPACED AT 24" OC. (MAX) STAGGERED OR EQUIVALENT CONNECTIONS PER DETAIL I/D3/: MIN EDGE DISTANCE SHALL BE 2" AND (2) BOLTS SHALL BE LOCATED MINIMUM 6" FROM EACH END OT THE BEAM.
- ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 SYP 12/SPF 12. AND/OR WITH MORE THAN 2'-O' OF CRIPPLE WALL ABOVE, SHALL BE (2) FLAT 2x4 SYP 12/SPF 12, DROPPED, (UNLESS NOTED OTHERWISE)
- 12. ABBREVIATIONS:

DJ = DOUBLE JOIST	SJ = SINGLE JOIST
GT = GIRDER TRUSS	FT = FLOOR TRUGS
SC = STUD COLUMN	DR = DOUBLE RAFTER
EE = EACH END	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 SHOUN ARE MINIMUMS, BUILDER MAY INCREASE DEPTH FOR EASE OF CONSTRUCTION.

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

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

THESE PLANS ARE DESKANED IN ACCORDANCE WITH ARCHITECTURAL PLANS FROVIDED BY <u>DR. HORION</u> COMPLETED/REVISED ON <u>02/08/02/0</u>, IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT BNGINEERING, LABORATORY 4 THE CLIENT IO NOTIFICATION ENGINEERING, LABORATOKY * TESTING, P.C. IF ANY CHANGES ARE MADE TO THE ARCHITECTURAL PLANS FRIOR 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.

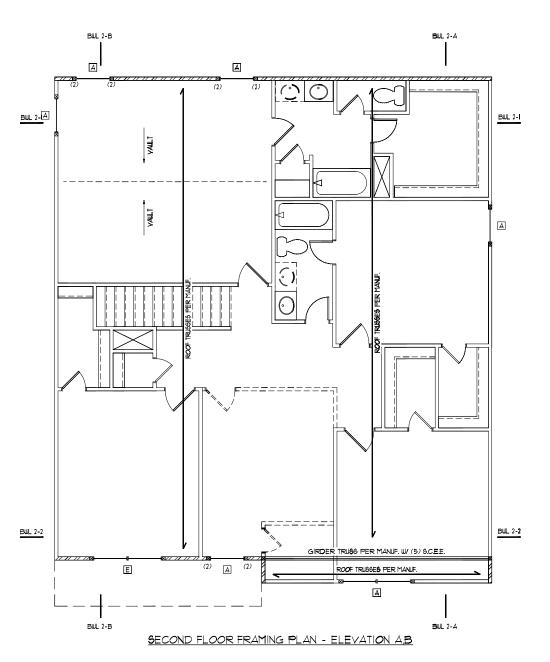
STRUCTURAL MEMBERS ONLY

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 DISCREPARCIES ON SHARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF SUMMIT ENGINEERING, LABORATORY & TESTING, P.C. FAILURE TO DO SO WILL VOID SUMMIT LIABILITY

STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

FIRST FLOOR FRAMING PLAN

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



SECOND FLOOR BRACING (FT)				
CONTINUOUS SHEATHING METHOD				
REQUIRED PROVIDED				
BUL 2-1	68	3Ø.1		
BWL 2-2	BWL 2-2 68 21.1			
BUL 2-A	5.9	41 <i>Ø</i>		
BWL 2-B	5.9	37.1		

HEADER SCHEDULE		
TAG	SIZE	JACKS (EACH END)
A	(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) 2x1Ø	(2)
	(3) 2x12	(2)

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 BIZE
Θ	L3x3x1/4"	LESS THAN 6'-0"
\bigcirc	L5x3x1/4"	6'-0" †0 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

15T & 2ND FLOOR LOAD BEARING STUDS: 2x4 STUDS @ 16" O.C. OR 2x6 STUDS @ 24" O.C. IST 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. 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 TO 4'-Ø"	(2)	
4'-0" TO 8'-0"	(3)	
8'-0" TO 12'-0"	(5)	
12'- 0" TO 16'- 0 " (6)		
KING STUD REQUIREMENT S ABOVE DO NOT APPLY TO PORTAL FRAMED OPENINGS		

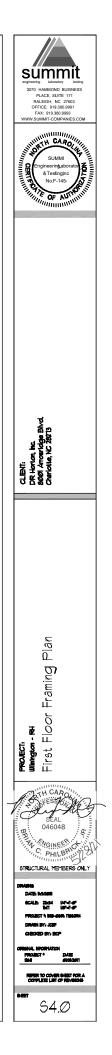
BRACED WALL NOTES:

- 1) WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.00 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED
- PER SECTION REAL OF THE 2018 N. RESIDENTIAL CODE. WALLS ARE DESIGNED FOR SEISMIC ZONES A-C AND ULTIMATE WIND SPEEDS UP TO 130 MPH. 2. REFER TO ARCHITECTURAL PLAN FOR DOOR/WINDOW OPENING
- SIZES. 3.
- BRACING MATERIALS, METHODS AND FASTENERS SHALL BE IN ACCORDANCE WITH IRC TABLE R602.10.4. 4
- ALL BRACED WALL PARLES SHALL BE RULL WALL HEIGHT AND SHALL NOT EXCEED 10 FEET FOR ISOLATED PANEL METHOD AND 12 FEET FOR CONTINUOUS SHEATHING METHOD WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- INDIAL PAREL LENGTH SHALL BE PER TABLE R602.05. THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 12° GTPBUM BOARD (UNO).
- HE GIT CAT DUCUS SHEATTHING METHOD, EXTERIOR WALLS SHALL BE SHEATHED ON ALL SHEATTHABLE 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 BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- A BRACED WALL PARE 3HALL BE LOCATED WITHIN 10 FEET OF EACH END OF A BRACED WALL LINE.
 INE MAXIMUM EDGE DISTANCE BETWEEN BRACED WALL PANELS
- SHALL NOT EXCEED 20 FEET.
- II. MASONRY 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. 12. BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE
- DRACED WALL PANEL CONNECTIONS TO FLOORCETLING SHALL CONSTRUCTED IN ACCORDANCE WITH SECTION 600/10/8 BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602/10/82 AND 13.
- FIGURES R602 108(1)4(2)4(3) 14
- CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION RE02.10.11 15. PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE
- R602.10.6.4 (UNO) CALSCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.
 ABBREVIATIONS:

 GB : GYPOUM BOARD
 USP : WOOD STRUCTURAL PANEL

 C5-XXX : CONT. SHEATHED
 ENG : ENGINEERED SOLUTION

 FF : PORTAL FRAME
 FF-ENG : ENG. PORTAL FRAME



2X6 RAFTERS © 24" O.C. W/ 2X8 RIDGE AND FLAT PLATE VALLEYS OR VALLEY SET TRUSSES PER MANUF. GIRDER TRUSS PER MANUF. _ \equiv ROOF TRUSSES PER MANUE. RT. PER MANF. _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _



THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY <u>DR HORTON</u> COMPLETED/REVISED ON <u>2012/2012</u>, IT 16 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 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 TRUGGES SHALL BE SPACE TO SUPPORT FALSE FRAMED DORMER WALLS (TYP, UND)

STRUCTURAL MEMBERS ONLY

STRUCTORAL MEMBERS ONET 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.

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

summit 3070 HAMMOND BUSINES PLACE, SUITE 171 RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.CO TH CARO SUMMI ineeringat & Testinglr **CLENT:** DR Horton, Inc. 8001 Arrowidge Bivd. Charlotte, NC 28713 Plan Protect: Willington - RH First Floor Framing F LTH CARC SEAL 046048 PHILBRUY STRUCTURAL MEMBERS ONLY DRAMAS DATE STANK 664LE 25.94 147-7-87 Mit 187-7-87 -DINAN BY, JOP CHECKED BY BOP ORIGINAL INFORMATION PROJECT * DATE SUBJ BUSINESS NUMER TO COMER SHEET FOR A COMPLETE LIST OF NEMBORS S5.Ø

DESIGN SPECIFICATIONS:

81. Site Class 82. Design Category ... 83. Importance Factor .

Seisnic Use Group . 8.5. Spectral Response Acceleration 85. Seismic Base Shear 861 VX = 8**6**2.Vy =

8.1. Basic Structural System (check one) ⊠ Bearing Wall □ Building Frame □ Moment Frame

8.8. Arch/Mech Components Anchored ... 8.9. Lateral Design Control: Seismic
9. Assumed Soil Bearing Capacity

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

> Wind 🖂 200005

8 Seismic

Construction Tupe: Commerical 🔲 Residential 🛛

Applicable Building Codes:	
 2018 North Carolina Residential 	

°• 2Ø	le Building Codes: 18 North Carolina Residential Building Code with CE 7-10: Minimum Design Loads for Buildings an	
Design L	oads:	
	Roof Live Loads	
	I.I. Conventional 2x	
	1.2. Trus e	20 PSF
	12.1. Attic Truss	_ 60 PSF
2.	Roof Dead Loads	
	2.1. Conventional 2x	
	2.2. Truse	
3.	5now	15 PSF
	3.1. Importance Factor	1.0
4.	Floor Live Loads	
	4.1. Typ. Dwelling	40 PSF
	4.2. Sleeping Areas	
	4.3. Decks	
	4.4. Passenger Garage	
5.	Floor Dead Loads	
	5.1. Conventional 2x	
	52. I-Joist	15 PSF
	5.3. Floor Truss	15 PSF
6.	Ultimate Wind Speed (3 sec. gust)	, PER PL A N
	6.1. Exposure	
	6.2. Importance Factor	
	6.3. Wind Base Shear	
	63.1. Vx =	
	632.Vy =	
٦.	Component and Cladding (in PSF)	

J					
				PSF	
				K I"LAN	
		in (PSF)			
	~				
	UP TO 30'	301"-35'	351"-40	4011-45	
ZONE 1	16.1, - 18.Ø	17.5,-18.9	18.2,-19.6	18.7,-20.2	
ZONE 2	16.7,-21.Ø	17.5,-22.1	18.2,-22.9	18.1,-23.5	
ZONE 3	16.7,-21Ø	17.5,-22.1	18.2, -22.9	18.1,-23.5	
ZONE 4	18.2, - 19.Ø	19.2,-20.0	19.9,-2 0 .1	20.4,-21.3	
ZONE 5	182,-24Ø	192,-252	19.9,-26.1	20.426.9	
	Floor Live LC 41. Typ. Du 42. Sleepin 43. Decks 44. Passen Floor Dead L 51. Conver 53. Floor T Uttimate Und 63. Und 63	Floor Live Loads 41. Typ. Duelling	Floor Live Loads 41. Typ. Duelling	41. Typ. Duelling 40 42. Sleeping Areas 30 43. Decks 40 44. Passenger Garage 50 Floor Dead Loads 50 51. Conventional 2x 10 F 52. I-Jolat 15 F 53. Floor Truss 15 F 61. Exposure 10 F 63. Wind Base Shear 63. Wind Base Shear 63. Wind Base Shear 63. Vy = 63. Wind Ease Shear 63. Vy = Component and Cladding (in PSF) MEAN ROOF MEAN ROOF 115.78.8 182.78.6 ZONE I 16.1.79.00 11522.1 182.72.9 ZONE 3 16.1.200 11522.1 182.72.9	Floor Live Loads 40 PSF 41. Typ. Duelling 40 PSF 42. Sleeping Areas 30 PSF 43. Decks 40 PSF 44. Passenger Garage 50 PSF Floor Dead Loads 10 PSF 51. Conventional 2x 15 PSF 15 PSF 52. I-Joits 15 PSF 15 PSF 53. Irlog Speed (3 sec. gust) PER PLAN 61 Exposure 10 63. Ump Tables & Preat 631. Vx = 632. Vy = 632. Vy = 200 115-721 182-729. 181,7-202 ZONE I I6.1,-180 115-721 182-729. 181,7-202 ZONE 2 161,7-210 175-721 182,-723. 181,7-235

SUMMIT

SHEET LIST: Description Sheet No. CGI Cover Sheet Specifications Revision Dim Monolithic Slab Foundation Details Dla Stem Wall Foundation Details Dic Craul Space Foundation Details DЬ Basement Foundation Details DIF Framing Details

STANDARD DETAILS OUNER: DR Horton Carolinas Division

8001 Arrowridge Blvd Charlotte, NC 28213

STRUCTURAL PLANS PREPARED FOR

ARCHITECT/DESIGNER GMD Design Group 1845 Satellite Blvd Duluth GA 3009

PROJECT ADDRESS:

TBD

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:

AВ	ANCHOR BOLT	PŤ	PRESSURE TREATED
AFF	ABOVE FINISHED FLOOR	RS	ROOF SUPPORT
CJ	CEILING JOIST	SC	STUD COLUMN
CLR	CLEAR	5J	SINGLE JOIST
ÐJ	DOUBLE JOIST	SPF	SPRUCE PINE FIR
D5P	DOUBLE STUD POCKET	SST	SIMPSON STRONG-TIE
Ē	EACH END	S YP	SOUTHERN YELLOW PINE
EΨ	EACH WAY	ŤJ	TRIPLE JOIST
NT9	NOT TO SCALE	TSP	TRIPLE STUD POCKET
8	ON CENTER	TYP	TYPICAL
P#F	POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
PSI	POUNDS PER SQUARE INCH	WWF	WELDED WIRE FABRIC

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

REVISION LIST: **Re**vision Project No. Date Description No. E IIIT Added box bay detail (2/D2f). Added deck options with basement. Revised deck options with stem wall and crawl space foundations 2 7,12,17 Revised stem wall insulation note 3 2.15.18 Revised garage door detail, NC only 4 2.28.18 Added high-wind foundation details 5 12.19.18 Revised per 2018 NCRC 6 2.19.19 Revised per Mecklenburg County Comments Revised stem wall deck attachment and i sheathing on wall sections. 8 3.6.19 Corrected dimensions at perimeter footings 9 3220 Added tall turndown detail 10 3.18.20 Added balloon framing detai Added alternate two-pour detail for slab and 102020 added note for crawl girder above grade 3121 12 Added OX-19 Standard Details 13 5.18.21 Updated OX-15 Standard Details 14 @2.14.23 Added 4/D2m - Tall Slab Detail w/ Siding

GENERAL STRUCTURAL NOTES:

- The design professional whose seal appears on these drawings is the structural engineer of record (SER) for this project. The SER bears the responsibility of the primary structural elements and the performance of this structure. No other party may revise, alter, or delete any structural aspects of these construction documents without written permission of SUMMIT Engineering, Laboratory & Testing, P.C. (SUMMIT) or the SER. For t 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 2 to stabilize the structure.
- The SER is not responsible for construction sequences, methods, or techniques in comection with the construction of this structure. The SER will not be held responsible for the solutions in our on 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 stop crawings to comprise or or summarized controller, is not the responsibility of the SER or SUMMIT. Verification of assumed field conditions is not the responsibility of the SER. The contractor shall verify the field conditions for accuracy and report any discrepancies to SUMMIT before construction begins. The SER is not responsible for any secondary structural elements
- or non-structural elements, except for the elements specifically noted on the structural drawings. This structure and all construction shall conform to all
- applicable sections of the international residential code.
- This structure and all construction shall conform to all applicable sections of local building codes.
 All structural assemblies are to meet or exceed to requirements
- of the current local building code

FOUNDATIONS:

The structural engineer has not performed a subsurface investigation. Verification of this assumed value is the responsibility of the owner or the contractor. Should any adverse soil condition be encountered the SER must be contacted before proceeding.

- 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. 6.
- 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 div density. Excavations of footings shall be lined temporarily with a 6 mil polysthylene 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.

- <u>STRUCTURAL STEEL:</u>
 1. Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Fractice 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_{μ}) of 36 ksi unless
- otherwise noted. Welding shall conform to the latest edition of the American
- Weiding shall conform to the latest edition of the American Weiding Society's Structural Weiding Code AWS D.I., Electrodes for shop and field weiding shall be class ETØXX. All weiding shall be performed by a certified weider per the above

CONCRETE:

- NUMBER: Concrete shall have a normal weight aggregate and a minimum compressive strength (Fp) 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/thau 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 5 uith ACI 302.IR-96: "Guide for Concrete Slab and Slab Construction"
- The concrete slab-on-arade has been designed using a subgrade modulus of k=250 pci and a design loading of 200 psf. The SER is not responsible for differential settlement, slab cracking or other future defects resulting from unreported
- conditions not in accordance with the above assumptions. Control or saw cut joints shall be spaced in interior slabs-on-orade at a maximum of 15'-0" O.C. and in exterior
- slabs-on-grade at a maximum of 10'-0" unless otherwise noted. 8 Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished
- process winin + to 1/ nous after the slap has been initiated.
 Reinforcing steel may not extend through a control joint.
 Reinforcing steel may extend through a saw cut joint.
 I/I welded wire fabric (UWE) for concrete slabs-on-grade shall be placed at mid-depth of slab. The UWE, shall be securely supported during the concrete pour.

- <u>CONCRETE REINFORCEMENT:</u> 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.
- Thermosh 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 20% 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 4
- standard. Stæel reinforcing bars shall be new billet steel conforming to
- 6
- ASTM A65, grade 60. ASTM A65, grade 60. Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the latest edition of ACI 315: "Nanual of Standard Practice for Detailing Concrete Structures" Horizontal footing and wall reinforcement shall be continuous and shall have 30° bends, or comer bars with the same are for acless as the borgent at the class B size/spacing as the horizontal reinforcement with a class B
- tension splice. Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.

- Where reinforcing dowels are required , they shall be equivalent in size and spacing to the vertical reinforcement. The doule shall extend 48 bar diameters vertically and 20 bar diameters
- into the footing. 10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.
- Solid saun wood framing members shall conform to the specifications listed in the latest edition of the "National
- Design Specification for Wood Construction" (NDS), Unless otherwise noted, all wood framing members are designed to be
- Spruce-Yellow-Pine (SYP) 2. LVL or PSL engineered wood shall have the following minimum

- 2.4.Fc = 100 psi
- Wood in contact with concrete, masony, or earth shall be pressure treated in accordance with AWPA standard C-15. All other moisture exposed wood shall be treated in accordance
- Nails shall be common wire nails unless otherwise noted.
- specifications. All beams shall have full bearing on supporting framing members
- unless otherwise noted. Exterior and load bearing stud walls are to be 2x4 SYP #2 # 16" O.C. unless otherwise noted. Studs shall be continuous from the sole plate to the double top plate. Studs shall only be discontinuous at headers for window/door openings. A minimum of one king stud shall be placed at each end of the header. King studs shall be continuous.
- King studs shall be continuous. Individual studs forming a column shall be attached with one lod nall # 6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be properly blocked at all filor levels to ensure proper load transfer.
- Multi-ply beams shall have each ply attached with (3) 10d nails @ 24" O.C.
- 10. Flitch beams, 4-ply beams and 3-ply side loaded beams shall be Inter beams, + py beams and ppg side back to be the bolted together with (2) rous of 12^n diameter through bolts staggered = 16" OC. unless noted otherwise. Min. edge distance shall be 2" and (2) bolts shall be located a min. 6" from each end of the beam

WOOD TRUSSES:

- <u>QOD TRUSES</u>. 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 overail compliance with the design documents. The SER shall assume no responsibility for the correctness for the structural design for the wood trusses shall be designed for all required loadings a specification to the designed for all required loadings
- 2 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
- Hrve expension, provide a statement of 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." 3.
- 4. The truss manufacturer shall provide adequate bracing Instruiss manufacturer sharp provide adequate cracing 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 manufacture

EXTERIOR WOOD FRAMED DECKS:

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

2

- UCOD 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 the APA

WOOD FRAMING:

- ign values: 2.1. E = 1,900,000 psi
 - - 2.2. F_b = 2600 psi 2.3. F_v = 285 psi
 - with AWPA standard C-2
 - Lag screws shall conform to ANSI/ASME standard B182.1-1381. Lead holes for lag screws shall be in accordance with NDS

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Development

	DR HORTON PROJECT	<u>1 Sign-077:</u>
I	Manager	Signature
	Operations	
	Operations System	
I	Operations Product	

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CHECKED BY: BOP ORIGINAL INFORMATION PROJECT * DATE V3/VOT REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS
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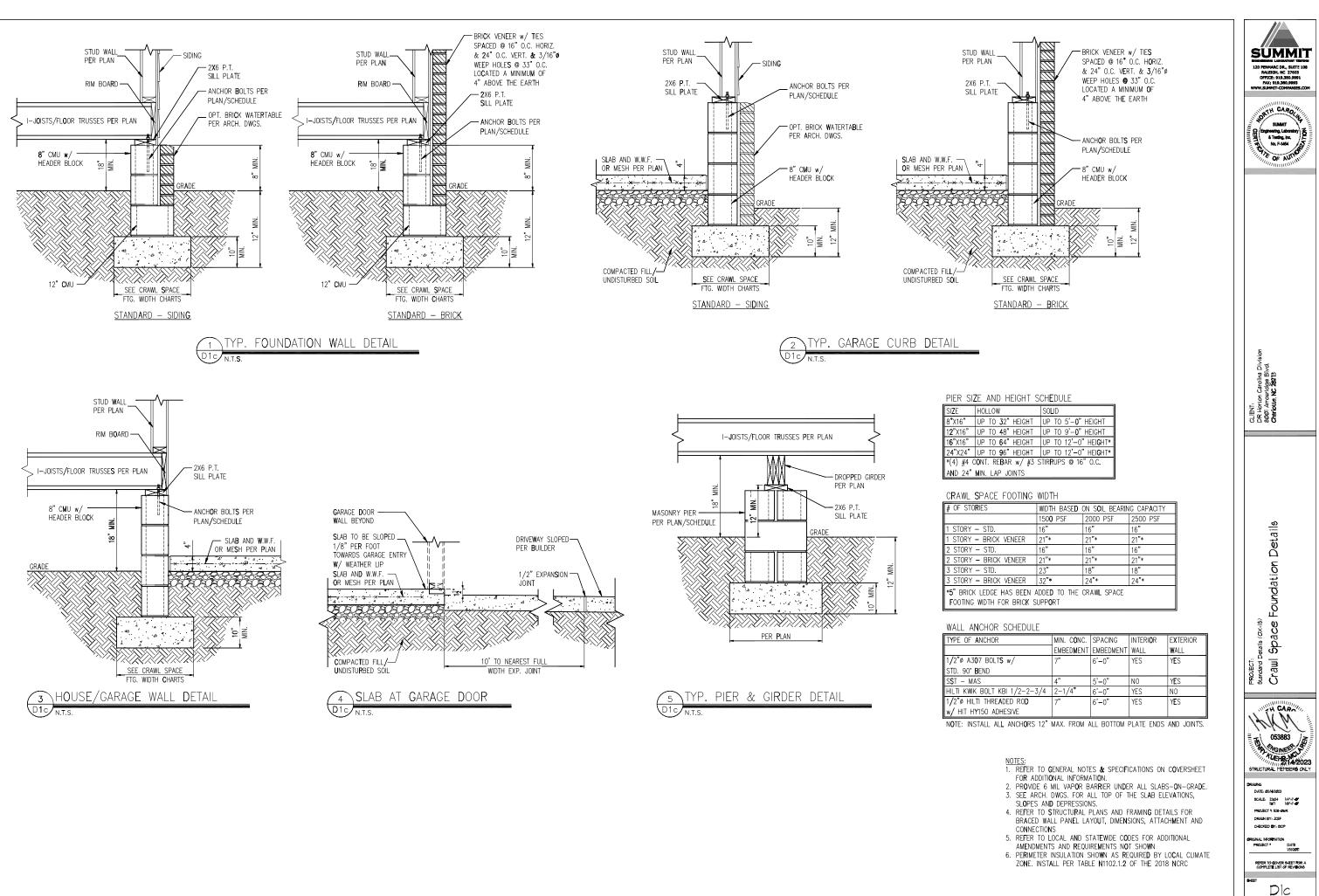
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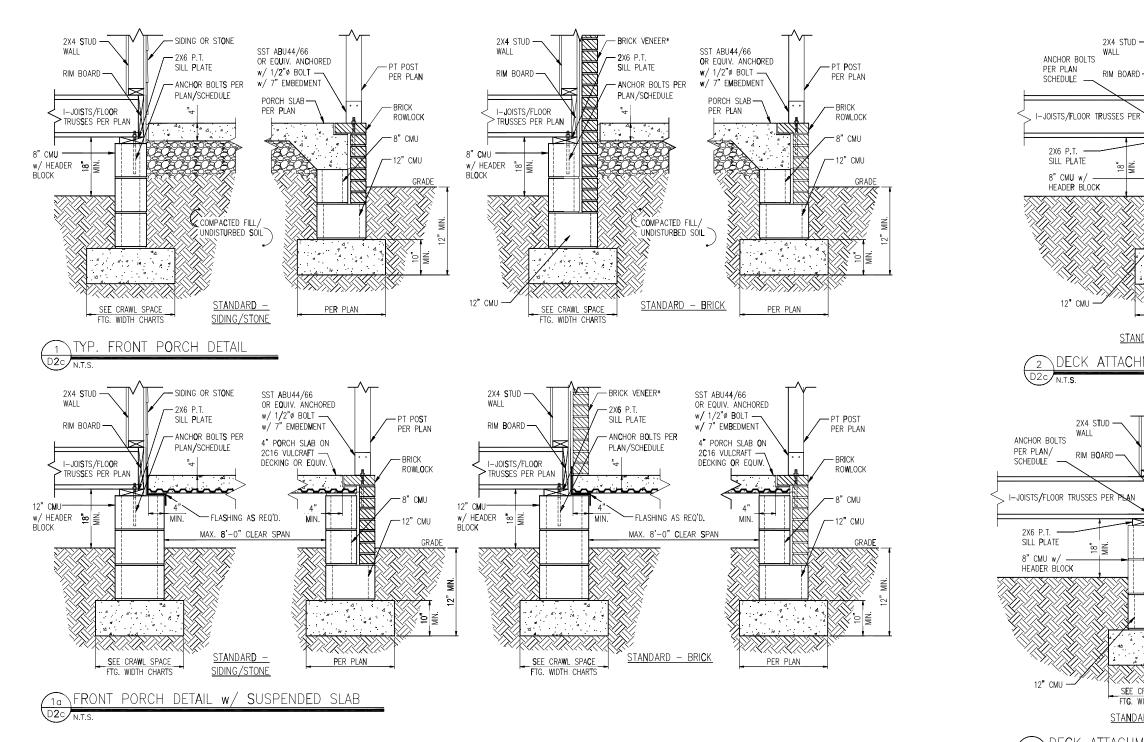
- Wood wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information, theathing shall be applied with the long direction perpendicular to framing, unless noted otherwise. Roof sheathing shall be APA rated sheathing exposure 1 or 2.
- Roof sheathing shall be continuous over two subports 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
- support by use of T4C plywood or lumber blocking unless otherwise noted. Panel and joints shall occur over framing. Apply building paper over the sheathing as required by the
- She building Code. Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

<u>STRUCTURAL FIBERBOARD PANELS:</u> I. Fabrication and placement of structural fiberboard sheathing

- shall be in accordance with the applicable AFA standards All structurally required fiberboard sheathing shall bear the mark of the AFA.
- Fiberboard wall sheathing shall comply with the requirements of local building codes for the appropriate state as indicated on these drawings. Refer to wall bracing notes in plan set for more information.
- Sheathing shall have a 1/8" gap at panel ends and edges are

have a span rating consistent with the framing spacing, Use suitable edge support by use of plyucod clips 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. Ubood floor sheathing to its supporting framing with (1)-8d CC ringshank nail at 6°/oC at panel edges and at 2°/oC in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall be applied perpendicular to framing. Sheathing shall be applied perpendicular to framing. Sheathing shall be applied perpendicular to framing sheathing shall be applied perpendicular to framing sheathing shall be applied perpendicular to framing. Sheathing and unless





	DECK ATTACHMENT	SCHEDULE (A	ALL STRUCTURES	FXCEPT BRICK)	
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MAX. 8'-0" JOIST	MAX. 16'-0" JOIST
SPAN	SPAN
(1) @ 3'-6" 0.C.	(1) @ 1'-8" O.C.
AND	AND
(2) @ 8" 0. C .	(3) @ 6" O.C.
	SPAN (1) @ 3'-6" O.C. AND

a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.

b. MINIMUM EDGE DISTANCE FOR BOLTS IS 21".

c. NAILS MUST PENETRATE THE SUPPORTING STRUCTURE BAND A MINIMUM OF $1\frac{1}{2}$ "

DECK ATTACHMENT SCHEDULE (BRICK STRUCTURES)

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

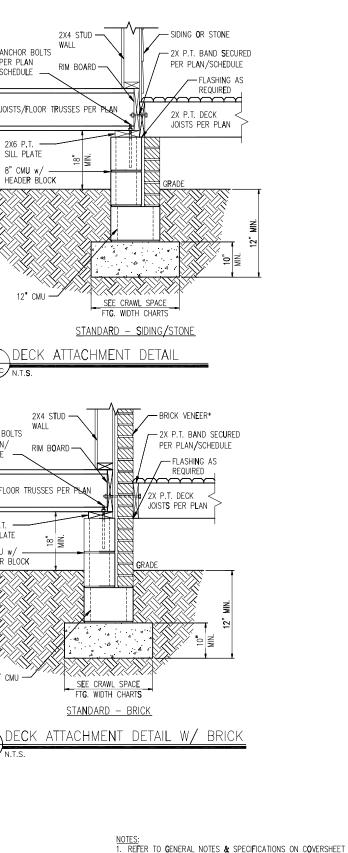
a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.

b. MINIMUM EDGE DISTANCE FOR BOLTS IS 21".

CRAWL SPACE FOOTING WIDTH

# OF STORIES	WIDTH BASED	ON SOI L BEARIN	ig capa c ity
	1500 PSF	2000 PSF	2500 P S F
1 STORY - STD.	16"	16"	16"
1 STORY - BRICK VENEER	21"*	21"*	21"*
2 STORY - STD.	16"	16"	16"
2 STORY - BRICK VENEER	21"*	21"*	21"*
3 STORY - STD.	23"	18"	18"
3 STORY - BRICK VENEER	32"*	24"*	24"*
*5" BRICK LEDGE HAS BEEN / FOOTING WIDTH FOR BRICK S		CRAWL S PACE	

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

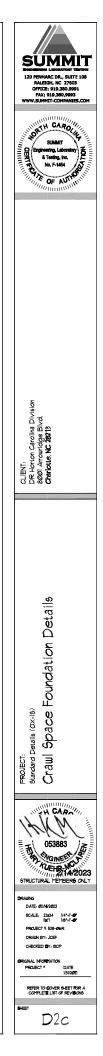


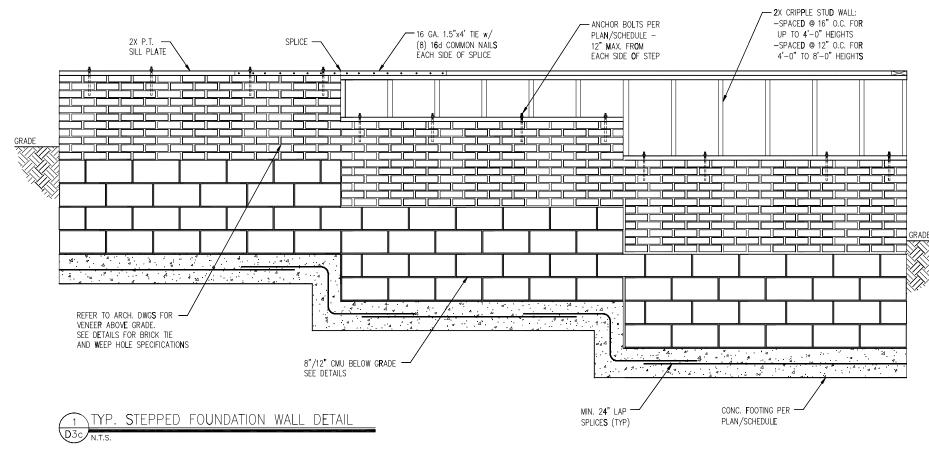
FOR ADDITIONAL INFORMATION.

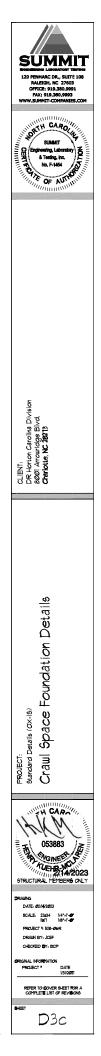
D2c

NTS

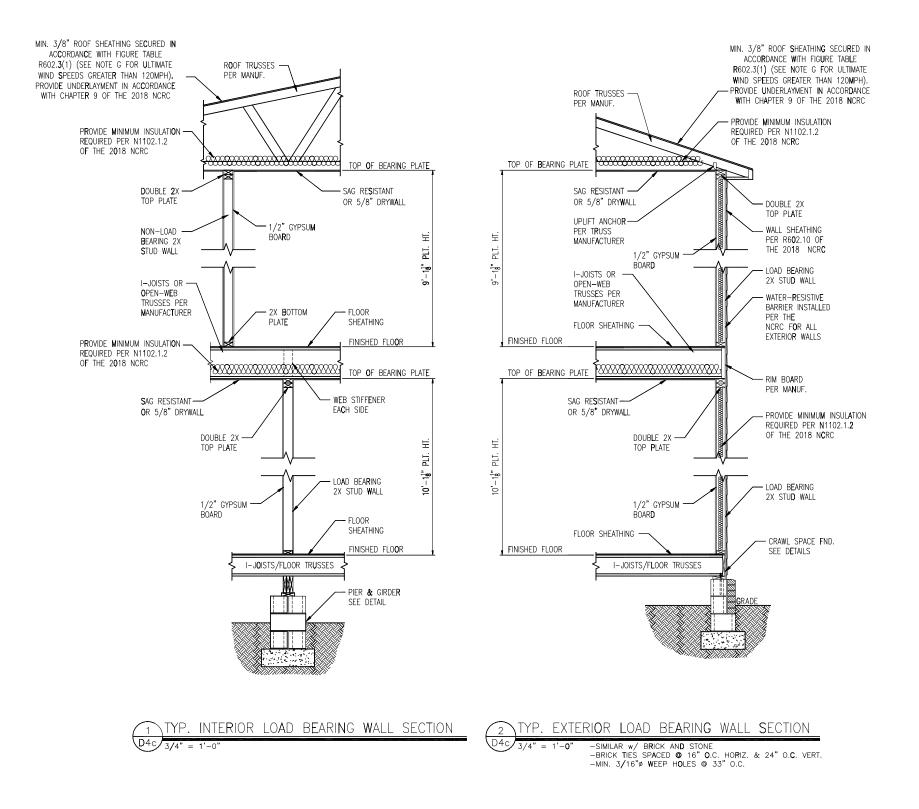
- PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE. . SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.
- 4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR BRACED WALL PANEL LAYOUT, DIMENSIONS, ATTACHMENT AND CONNECTIONS
- 5. REFER TO LOCAL AND STATEWIDE CODES FOR ADDITIONAL 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

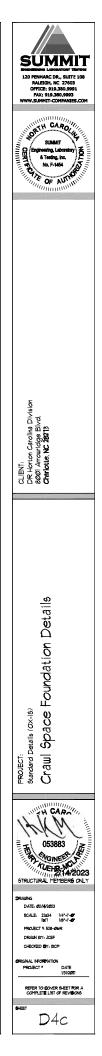




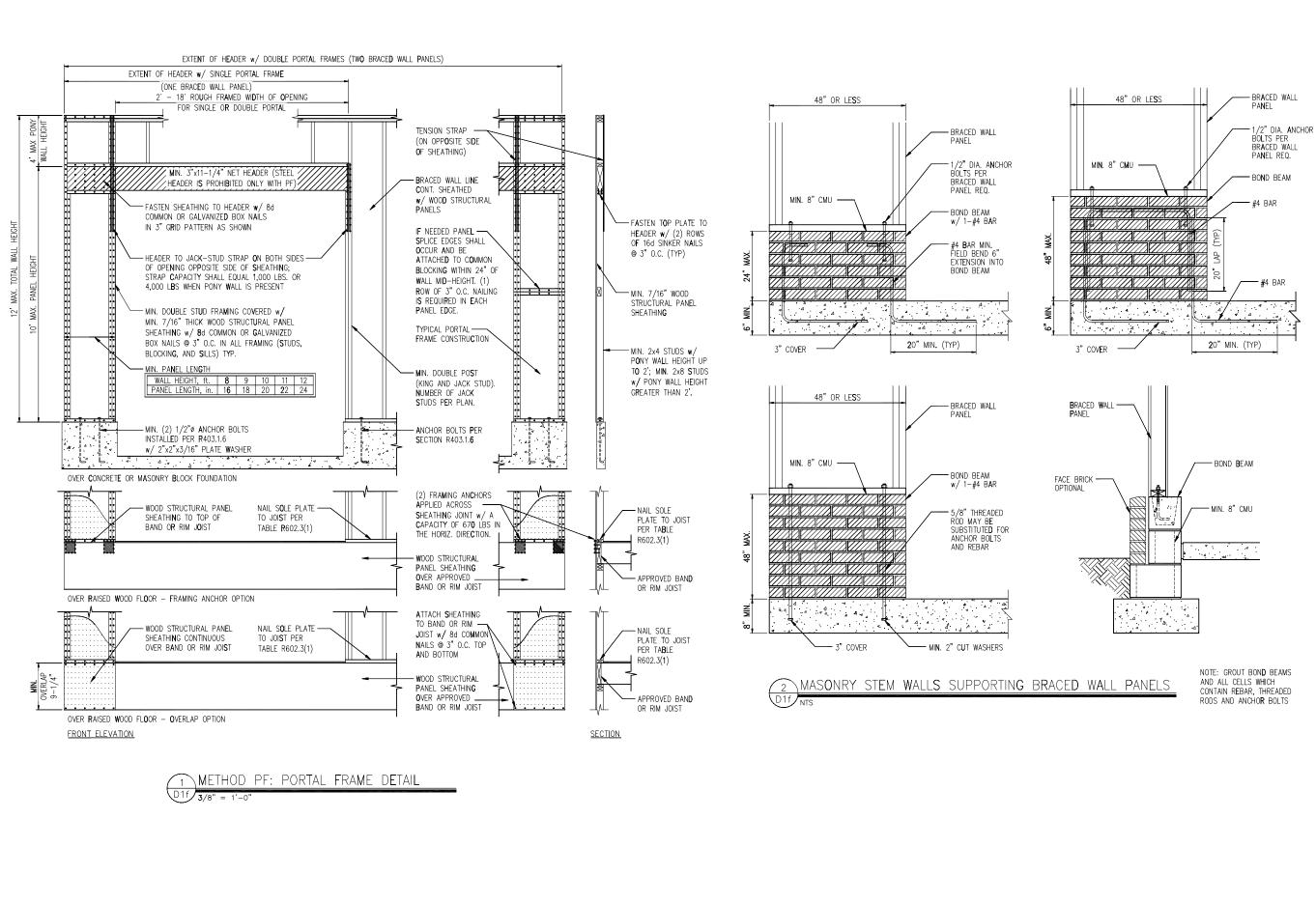


- NOTES: 1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
- PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
 SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.
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- BRACED WALL PANEL LAYOUT,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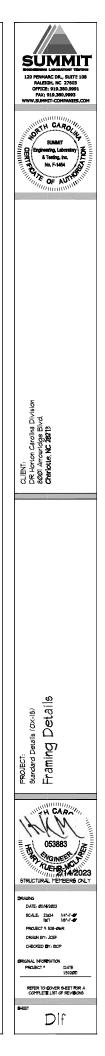


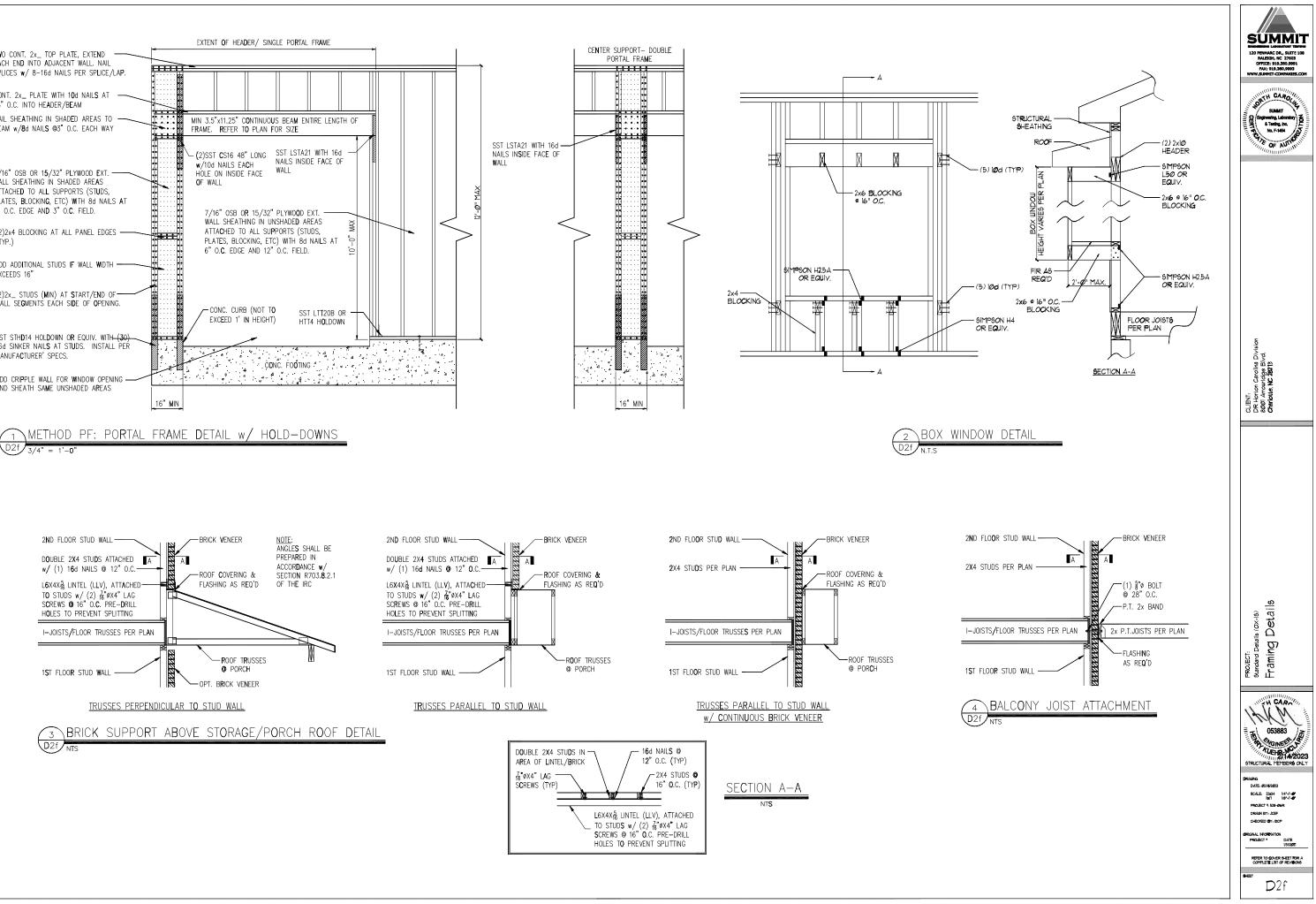


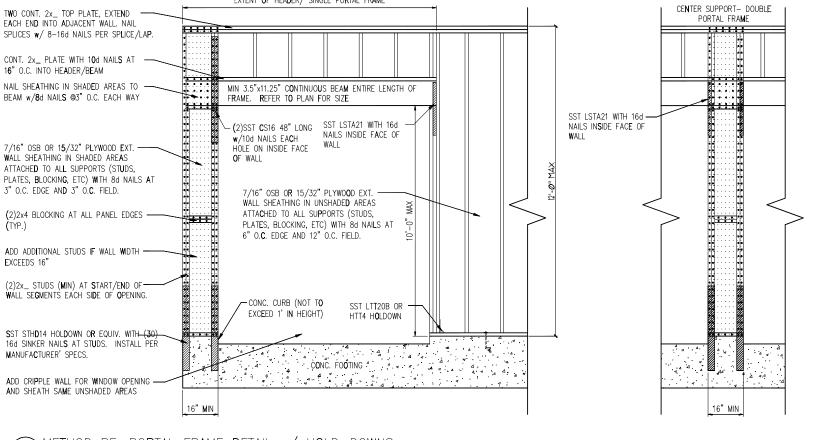
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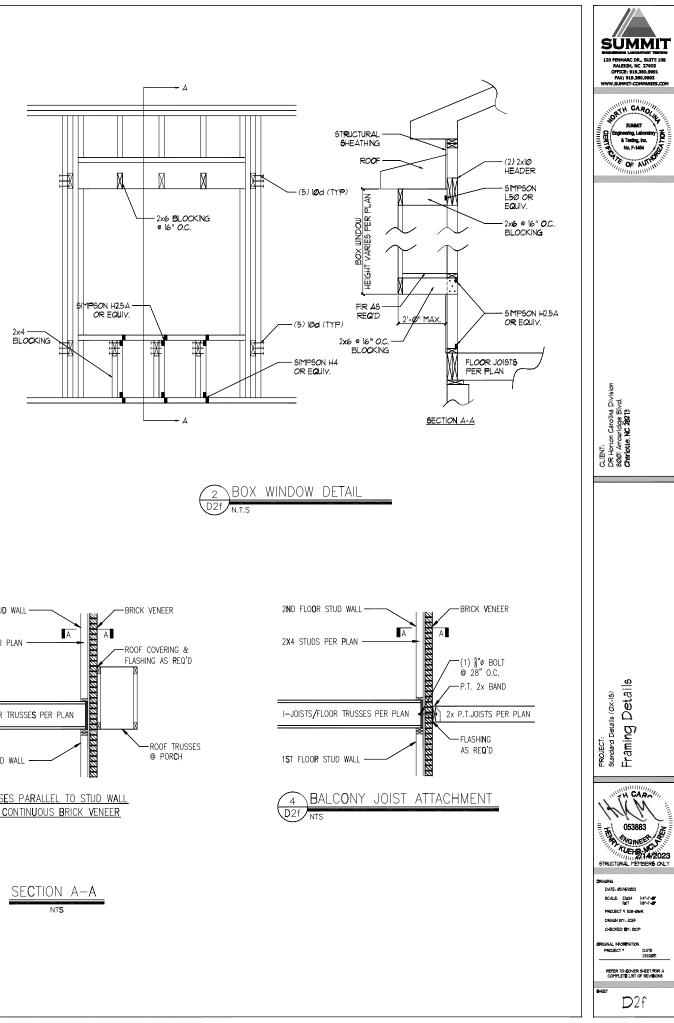


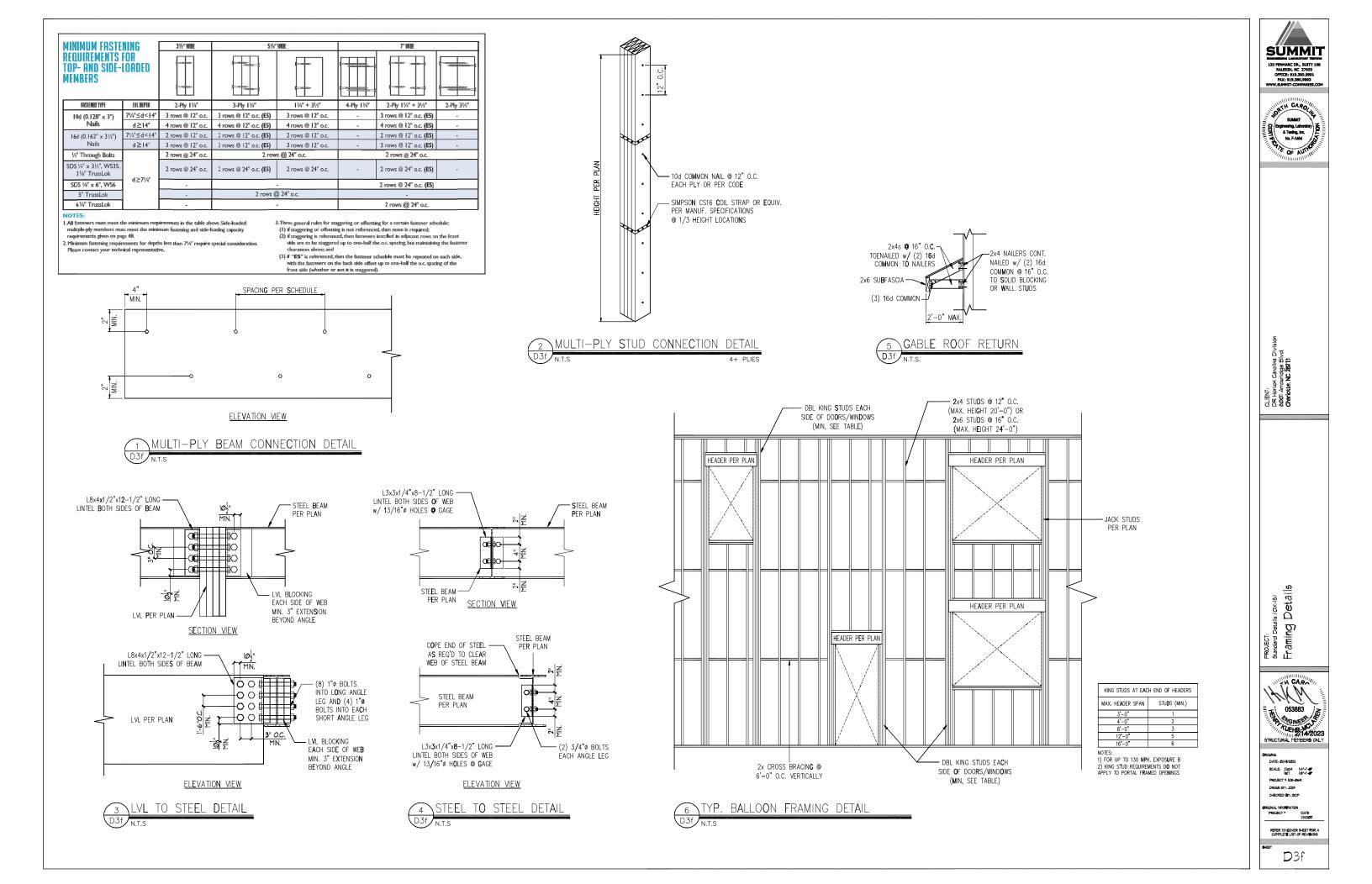


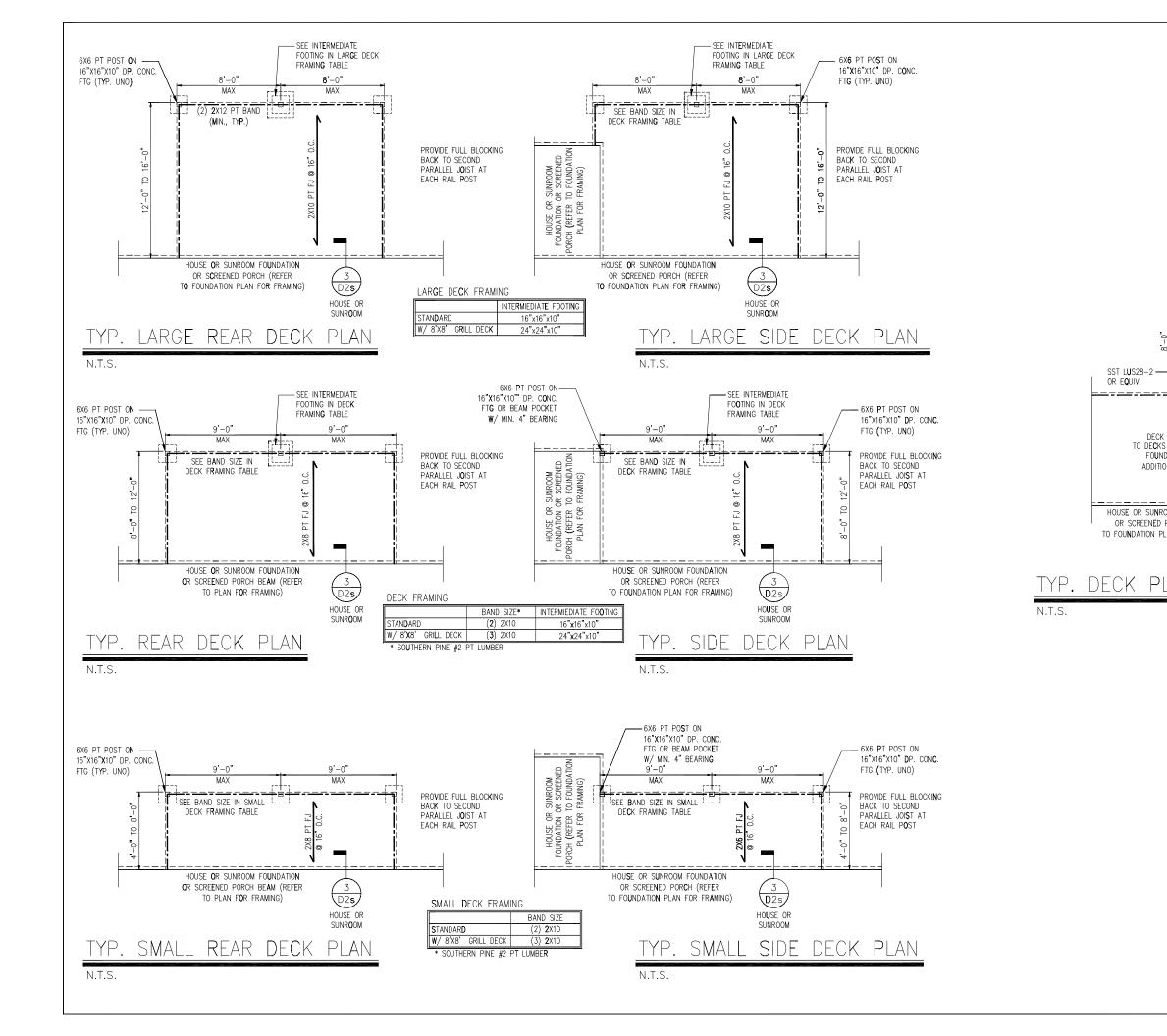


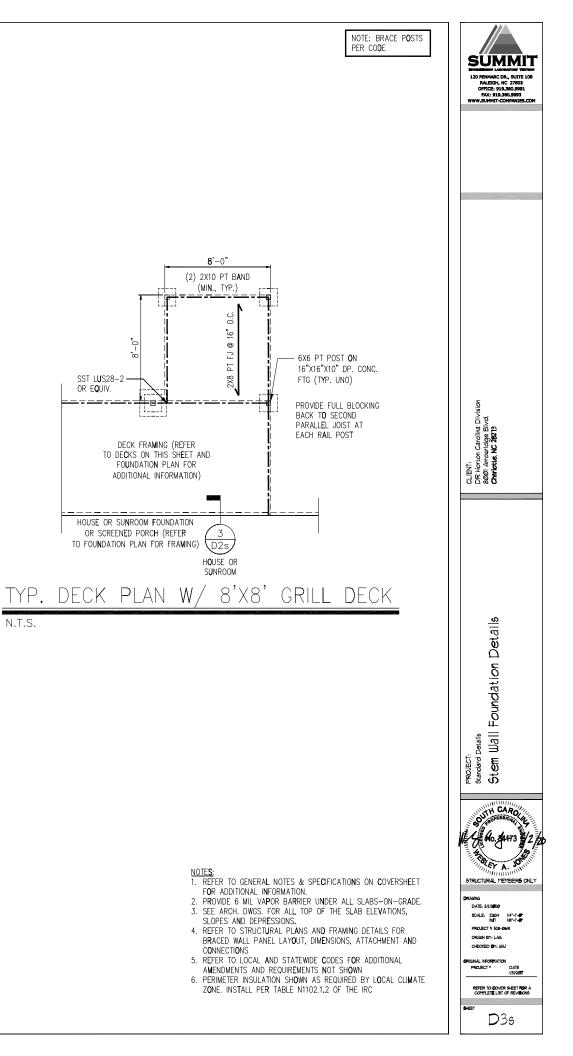






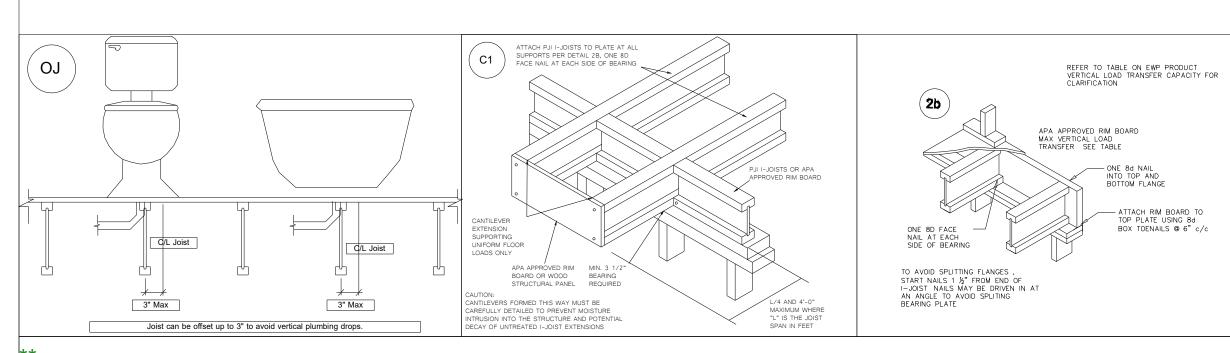






			Pro	ducts		
Net Qty	Plies			Product	Length	PlotID
11	1			11 7/8" PJI-40	42' 0"	J42
9	1			11 7/8" PJI-40	24' 0"	J24
6	2			11 7/8" PJI-40	24' 0"	J24-2
5	1			11 7/8" PJI-40	14' 0"	J14
2	2			11 7/8" PJI-40	14' 0"	J14-2
6	2			11 7/8" PJI-40	12' 0"	J12-2
14	1	1 1/8" ×	: 11 7/8	" APA Rim Board	12' 0"	RIM1
8	1			11 7/8" PJI-40	2' 0"	BP1
6	1			11 7/8" PJI-40	2' 0"	BP2
				Accessories		
	١	let Qty	Plies	Product	Length	PlotID
		39	1	3/4" 4x8 OSB		

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



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

TRANSFER LOAD FROM ABOVE TO BEARING BELOW INSTALL SOUASH BLOCKS PER 23 MATCH BEARING AREA OF BLOCKS IN RIM CAVITY TO POST ABOVE EXAMPLE 3-2x6 POST REQUIRES 3-2x6 SQUASH BLOCKS

20

BLOCKING PANELS ONLY REQUIRED FOR LATERAL STABILITY WHERE FLOOR JOISTS ARE NOT CONTINUC OVER SUPPORT. REFER TO DETAIL 2G.

PJI I-JOIST MAX VERTICAL LOAD TRANSFER 2000PLF

__∦6"

LUMBER SQUASH BLOCKS TO BE CUT 为6"HIGHER THAN I-JOIST

 SOUASH BLOCK
 (h)

 1"x 3 1/2" APA RIM*
 1900

 1"x 5 1/2" APA RIM*
 3000

 1 1/8"x 3 1/2" APA RIM*
 2600

 1 1/8"x 5 1/2" APA RIM*
 2600

 1 1/8"x 5 1/2" APA RIM*
 4000

 1 -2v4
 1900

PROVIDE LATER BRACING AS PER DETAIL 20, 2b & 2c

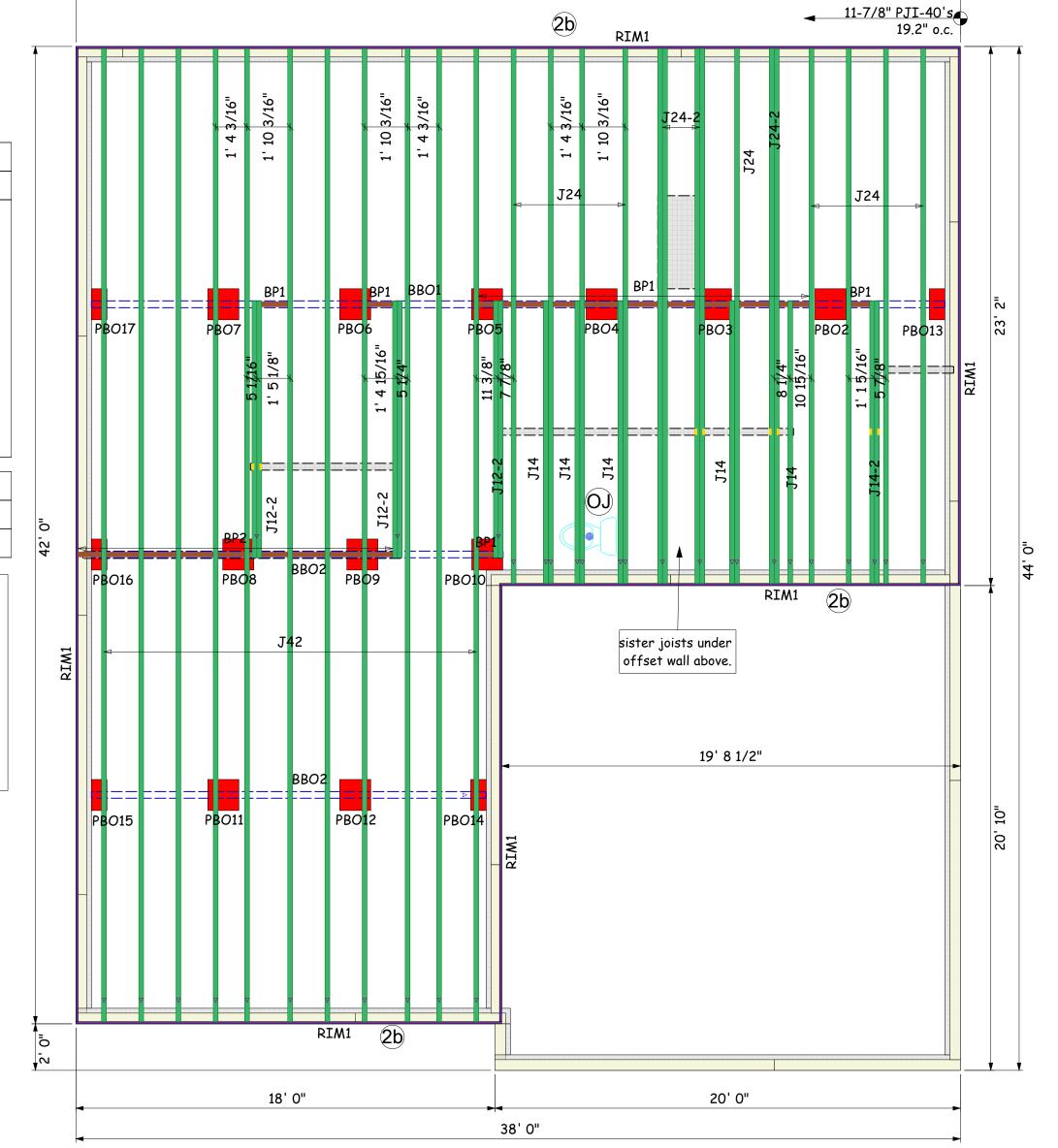
2d

LUMBER SQUASH —/ BLOCKS TO BE CUT ½6" HIGHER THAN I-JOIST

DOUBLE SQUASH BLOCK

MINIMUM 1-2x4 SQUASH BLOCK





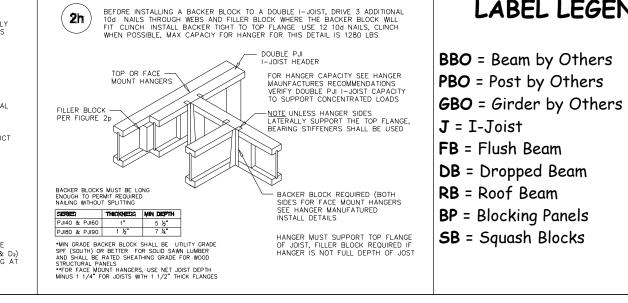
38' 0"

- LOAD BEARING WALL ABOVE SHALL ALIGN VERTICALLY WITH THE WALL BELOW OTHER CONDITIONS SUCH AS OFFSET WALLS ARE NOT COVERED BY THIS DETAIL INTERIOR -SUPPORT **2**g PJI I-JOIST BLOCKING REQUIRED BELOW ALL INTERIOR SUPPORTS TYPICAL PJI I-JOIST MAX VERTICAL LOAD TRANSFER 2000 PLF MAX 18" JOIST DEPTH REFER TO TABLE ON EWP PRODUCT VERTICAL LOAD TRANSFER CAPACITY FOR CLARIFICATION 8d NAILS AT 6"c/c-TO TOP PLATE PJI BLOCKING PANEL PER 20 DETAIL CK/ PJI JOIST ATTACHMENT —/ PER 25 DETAIL INTERIOR SUPPORT BLOCKING REQUIRED OVER ALL INTERIOR SUPPORTS UNDER LOAD BEARING WALLS OR WHERE FLOOR JOISTS ARE NOT CONTINIOUS OVER SUPPORT IN HIGH SEISMIC AREAS (SDC Do, Di & Da) THE IRC REQUIRES BLOCKING AT ALL INTERMEDIATE SUPPORTS THE IBC REQUIRES BLOCKING AT ALL SEISMIC DESIGN CATEGORIES

DR HORTON DR HORTON	** DAMAGED FLOOR JOISTS SHOULD NOT BE	DAMAGED FLOOR JOISTS SHOULD NOT BE INSTALLED UNLESS APPROVED BY COMPONENT PLANT.	** DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.	** FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS.	ENTS.
A BMBION Ridge WILMINGTON A A BMBION Of the custon S33 Mason Ridge A BMBION A A BMBION Of the aring conditions, usage, and quantities. 1/4 = 10 A BMBION of the usage, and quantities. 1/4 = 10 Partiar Linder Gampany and NO Back charge view and	Date: Desig Projec	DR HORTON		This is an I-Joist Placement Plan Only . All designs of I-Joist follow the IBC/IRC Code Requirements along with Manufacturer's guidelines. This is NOT an engineered	00/00 00/00 00/00 00/00
All MINGTON A All Mision of the Carter Lumber Company and NO Back charge virtue unless guide of product. Build	05/3 [·] ner: I ct #: 2	33 Mason Ridge		placement plan. This placement plan is created from plans provided by the customer using Manufactures guidelines. It is the responsibility of the EOR, or builder to review and approve all bearing conditions, connections, spans, loading, product	0/00 0/00 0/00
Ender Lumber Gompany Build of product. Build and NO Back charge version of the of product. Build and NO Back charge version of the of t	1/24 DW 2405	WILMINGTON A	A Division of the		Na Na Na
		First Floor Framing	Center Lumber Company	guide of product. Builder takes full responsibility for doing so and NO Back charge will be accepted.	ame ame ame ame ame

<u>1ST FLOOR LAYOUT</u>

LABEL LEGEND



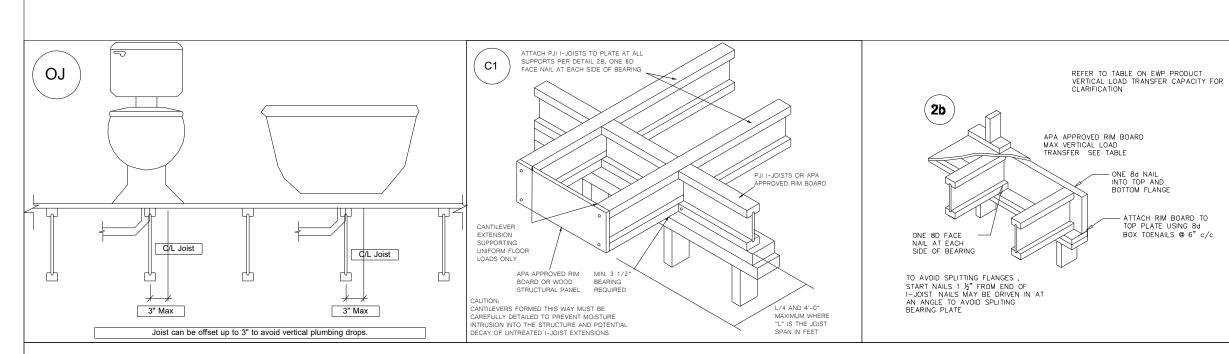


		Products		
Net Qty	Plies	Product	Length	PlotID
11	1	14" PJI-40	38' 0"	J38
10	1	14" PJI-40	24' 0"	J24
7	1	14" PJI-40	20' 0"	J20
10	1	14" PJI-40	18' 0"	J18
2	1	14" PJI-40	8' 0"	J8
1	1	14" PJI-40	6' 0"	J6
5	1	14" PJI-40	4' 0"	J4
2	2	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	8' 0"	DB6-2
2	2	2.1 RigidLam SP LVL 1-3/4 x 9-1/4	6' 0"	DB5-2
2	2	2.1 RigidLam SP LVL 1-3/4 x 11-7/8	20' 0"	DB1-2
1	1	2.1 RigidLam SP LVL 1-3/4 × 14	8' 0"	FB2
1	1	2.1 RigidLam SP LVL 1-3/4 × 14	6' 0"	FB3
2	2	2.1 RigidLam SP LVL 1-3/4 × 14	4' 0"	FB7-2
17	1	1 1/8" x 14" APA Rim Board	12' 0"	RIM1
11	1	14" PJI-40	2' 0"	BP1

		Acces	sories		
Net Qty	Plies	F	'roduct	Length	PlotID
50	1	3/4" 4>	(8 OSB		
Сог	nnector	' Summar	У		
Backer Blocks	ł	Product	Manuf	[:] Qty	PlotID
No	IUS	2.56/14	Simpsor	n 8	H1
No	IUS	2.56/14	Simpsor	1 9	H2
-	50 Con Backer Blocks No	50 1 Connector Backer Blocks H No IUS	50 1 3/4" 4× Connector Summar Backer Blocks Product No IUS2.56/14	50 1 3/4" 4x8 OSB Connector Summary Backer Blocks Product Manuf No IUS2.56/14 Simpson	5013/4" 4x8 OSBConnector SummaryBacker BlocksProductManufQtyNoIUS2.56/14Simpson8

BLOCK SOLID UNDER ALL POST/POINT LOADS FROM ABOVE. TYPICAL AT ALL LOCATIONS

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



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

2e

ELOCATING PARELS ONEY REQUIRED FOR LATERAL STABILITY WHERE FLOOR JOISTS ARE NOT CONTINU OVER SUPPORT, REFER TO DETAIL 2G.

PJI I-JOIST MAX VERTICAL LOAD TRANSFER 2000PLF

__∦6"

LUMBER SQUASH BLOCKS TO BE CUT 次6"HIGHER THAN I-JOIST

ha t

 SOUASH BLOCK
 (In)

 1"x 3 1/2" APA RIM*
 1900

 1"x 5 1/2" APA RIM*
 2600

 1 1/8"x 5 1/2" APA RIM*
 2600

 1 1/8"x 5 1/2" APA RIM*
 4000

 1 -2×4
 400

PROVIDE LATER BRACING AS PER DETAIL 20, 2b & 2c

2d

LUMBER SQUASH —/ BLOCKS TO BE CUT ¼6" HIGHER THAN I—JOIST

DOUBLE SQUASH BLOCK

Т



PJI BLOCKING PANEL PER 20 DETAIL

INTERIOR SUPPORT

- PJI I-JOIST BLOCKING REQUIRED BELOW ALL INTERIOR SUPPORTS

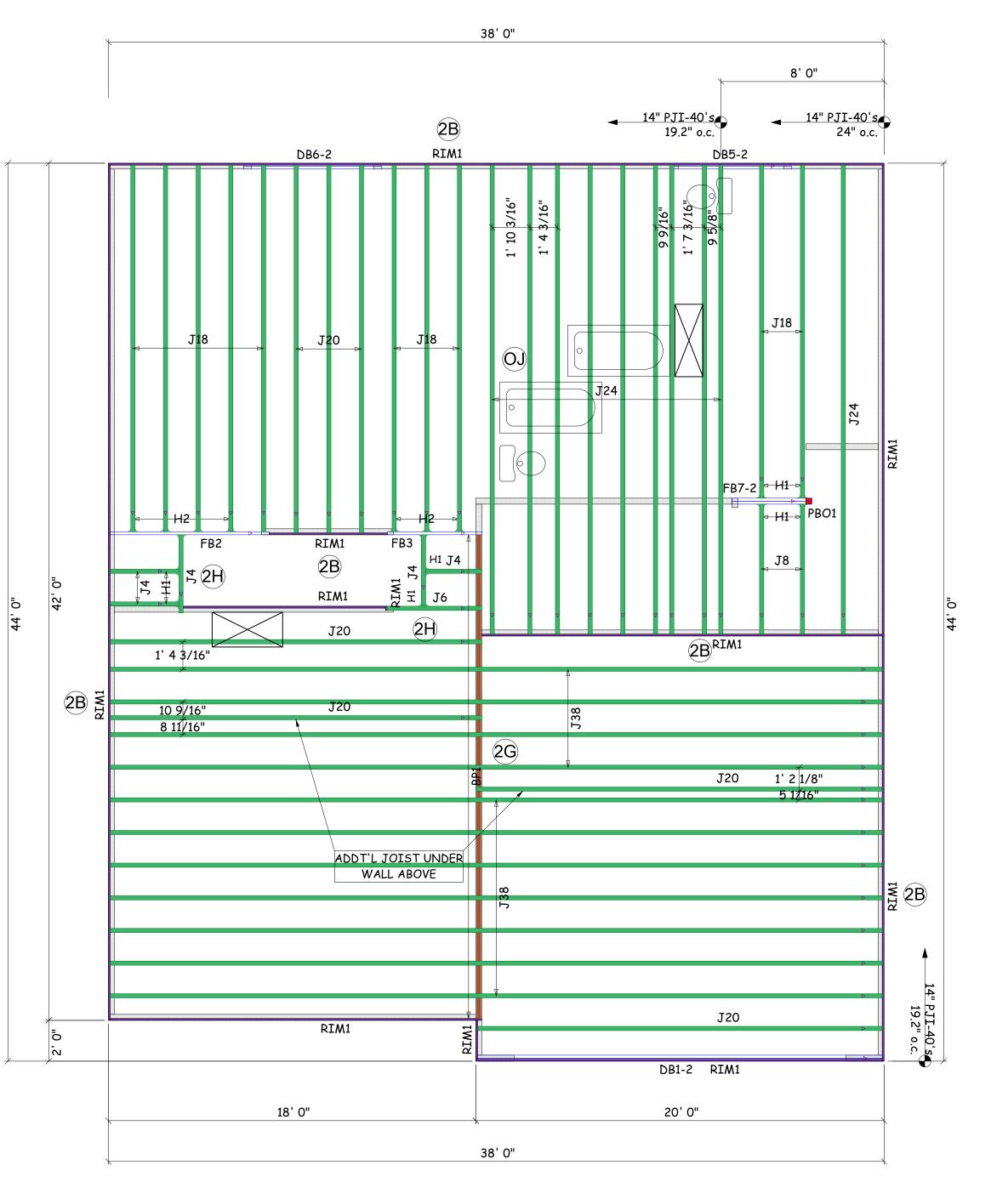
INTERIOR -SUPPORT

(2g)

8d NAILS AT 6"c/c TO TOP PLATE

PJI JOIST ATTACHMENT —/ PER 26 DETAIL

TRANSFER LOAD FROM ABOVE TO BEARING BELOW INSTALL SOUASH BLOCKS PER 2d MATCH BEARING AREA OF BLOCKS IN RIM CAVITY TO POST ABOVE EXAMPLE 3-2x6 POST REQUIRES 3-2x6 SQUASH BLOCKS



Revisions 00/00/00 Name 00/00/00 Namo 00/00/	** DAMAGED FLOOR JOISTS SHOULD NOT BE	DAMAGED FLOOR JOISTS SHOULD NOT BE INSTALLED UNLESS APPROVED BY COMPONENT PLANT.	** DIMENSIONS ARE READ AS: FOOT-INCH-SIXTEENTH.	** FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS.	IENTS.
33 Mason Ridge 33 Mason Ridge 000 33 Mason Ridge 33 Mason Ridge 000 33 Mason Ridge 000 000 33 Mason Ridge 000 000 MILMINGTON A 000 000 Bereing conditions, connections, spans, loading, product 000 Bereing conditions 000 000	Date: Desigr Projec	DR HORTON		This is an I-Joist Placement Plan Only . All designs of I-Joist follow the IBC/IRC Code Requirements along with Manufacturer's guidelines. This is NOT an engineered	00/00 00/00 00/00
Name Name Nam Nam Nam	05/31 ner: [ct #: 2	33 Mason Ridge		placement plan. This placement plan is created from plans provided by the customer using Manufactures guidelines. It is the responsibility of the EOR, or builder to review and approve all bearing conditions, connections, spans, loading, product)/00)/00)/00)/00
Second Floor Framing and NO Back charge will be accepted.	/24 DW 24050	MILMINGION A		usage, and quantities. Do not notch or drill holes in beams or flanges on joists without prior approval from the manufacturing Representative unless following hole guidlines in the installation	Na Na Na
		Second Floor Framing	GERGF LUMDER COMPENY	guide of product. Builder takes full responsibility for doing so and NO Back charge will be accepted.	me me me



