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

# PLAN ID: 1764/1765 - RIGHT HAND - NORTH CAROLINA

# **DATE:** REVISION: 10/10/2017 INITIAL RELEASE OF PLANS

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

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

12/11/2017 CHANGED ALL ELEVATIONS 01/12/2018 CLIENT REVISIONS

01/12/2018 CLIENT REVISIONS 02/07/2018 ELECTRICAL REVISIONS 03/16/2018 REVISED PLAN'S

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

10/18/2018 MADE COVERED PATIO STANDARD

REVISED WINDOW AT OPTIONAL MASTER BATH TO BE STANDARD 11/14/2018 CLIENT REVISIONS

01/09/2019 REVISED CODE REFERENCES
12/12/2019 ADDED MASONRY CALCULATIONS

02/28/2020 CLIENT REVISIONS 03/08/2021 PLATE HEIGHT REVISIONS

# **SHEET INDEX:**

CS ARCHITECTURALS - COVERSHEET

0 ARCHITECTURALS - QUICK VIEW

0.1 ARCHITECTURALS - QUICK VIEW

1A ARCHITECTURALS - ELEVATIONS A

1B ARCHITECTURALS - ELEVATIONS B

1F ARCHITECTURALS - ELEVATIONS F

1M ARCHITECTURALS - ELEVATIONS M

1N ARCHITECTURALS - ELEVATIONS N

1P ARCHITECTURALS - ELEVATIONS P

3A ARCHITECTURALS - ELEVATIONS P

3A ARCHITECTURALS - FLOOR PLANS A

3B ARCHITECTURALS - FLOOR PLANS B

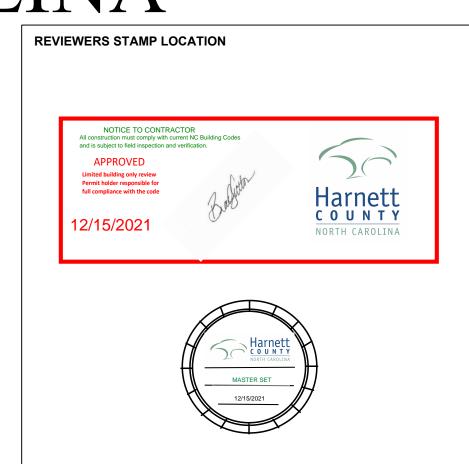
3F ARCHITECTURALS - FLOOR PLANS F

3M ARCHITECTURALS - FLOOR PLANS M

3N ARCHITECTURALS - FLOOR PLANS N

3P ARCHITECTURALS - FLOOR PLANS N

**ELECTRICAL - FLOOR PLANS** 



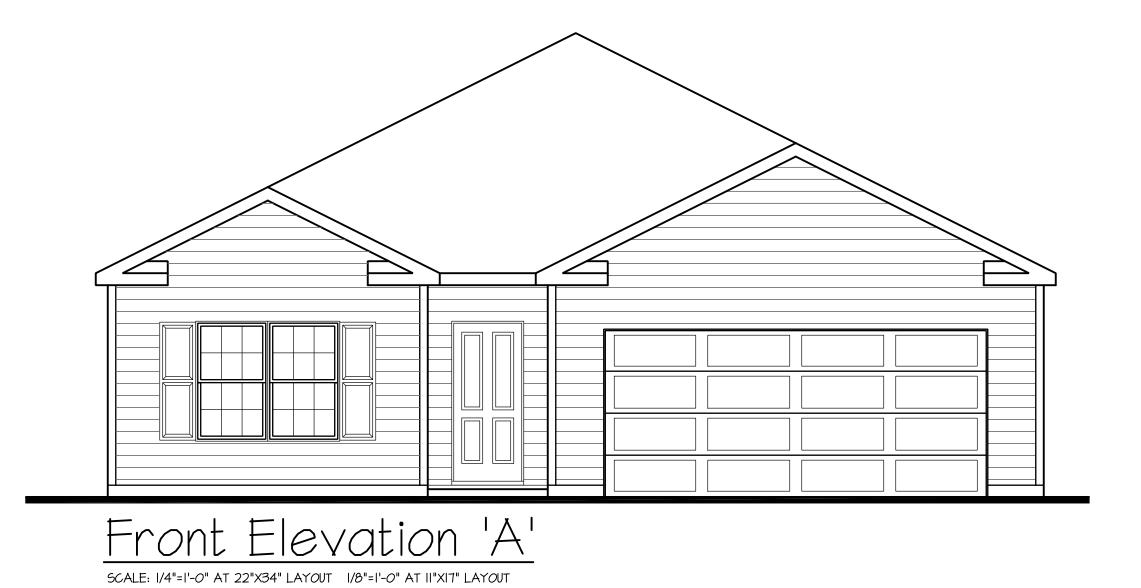
MODEL 'CALI' SQUARE FOOTAGES							
AREA	ELEV 'A'	ELEV 'B'	ELEV 'F'	ELEV 'M'	ELEV 'N'	ELEV 'P'	ELEV 'L'
st FLOOR	1764 SF						
OTAL LIVING	1764 SF						
5ARAGE	425 SF						
PORCH	18 SF						
COVERED PORCH	88 SF						



COVERSHEET

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SHEET NUMBER





SCALE: |/4"=|'-0" AT 22"X34" LAYOUT |/8"=|'-0" AT ||"X|7" LAYOUT



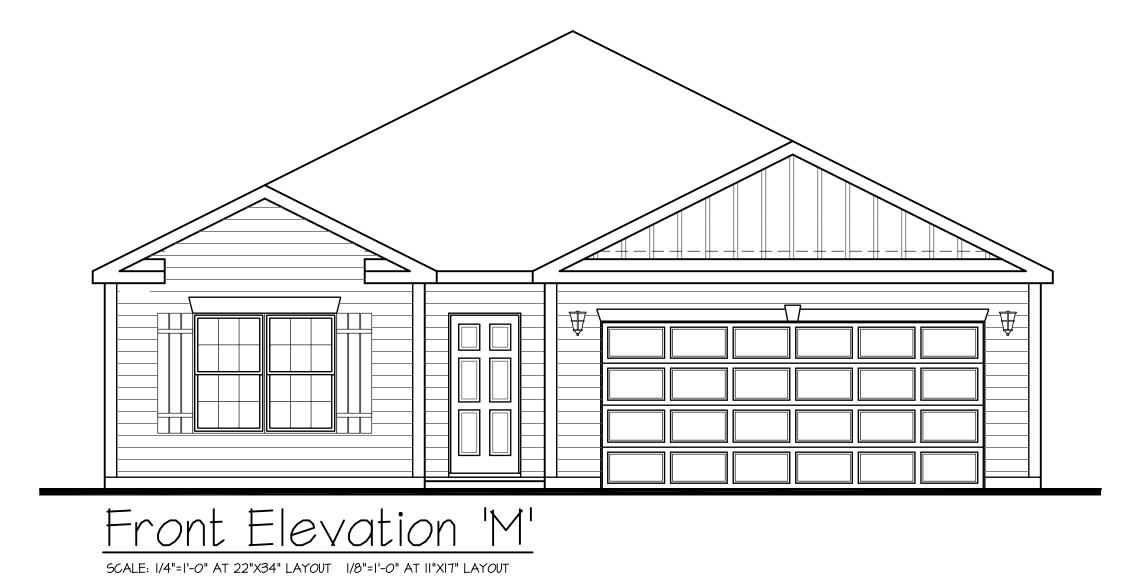
Front Elevation 'F' SCALE: I/4"=I'-0" AT 22"X34" LAYOUT |/8"=I'-0" AT II"XI7" LAYOUT



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VIEW QUICK

REV







Front Elevation P

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



QUICK VIEW
'CALI' - 1765

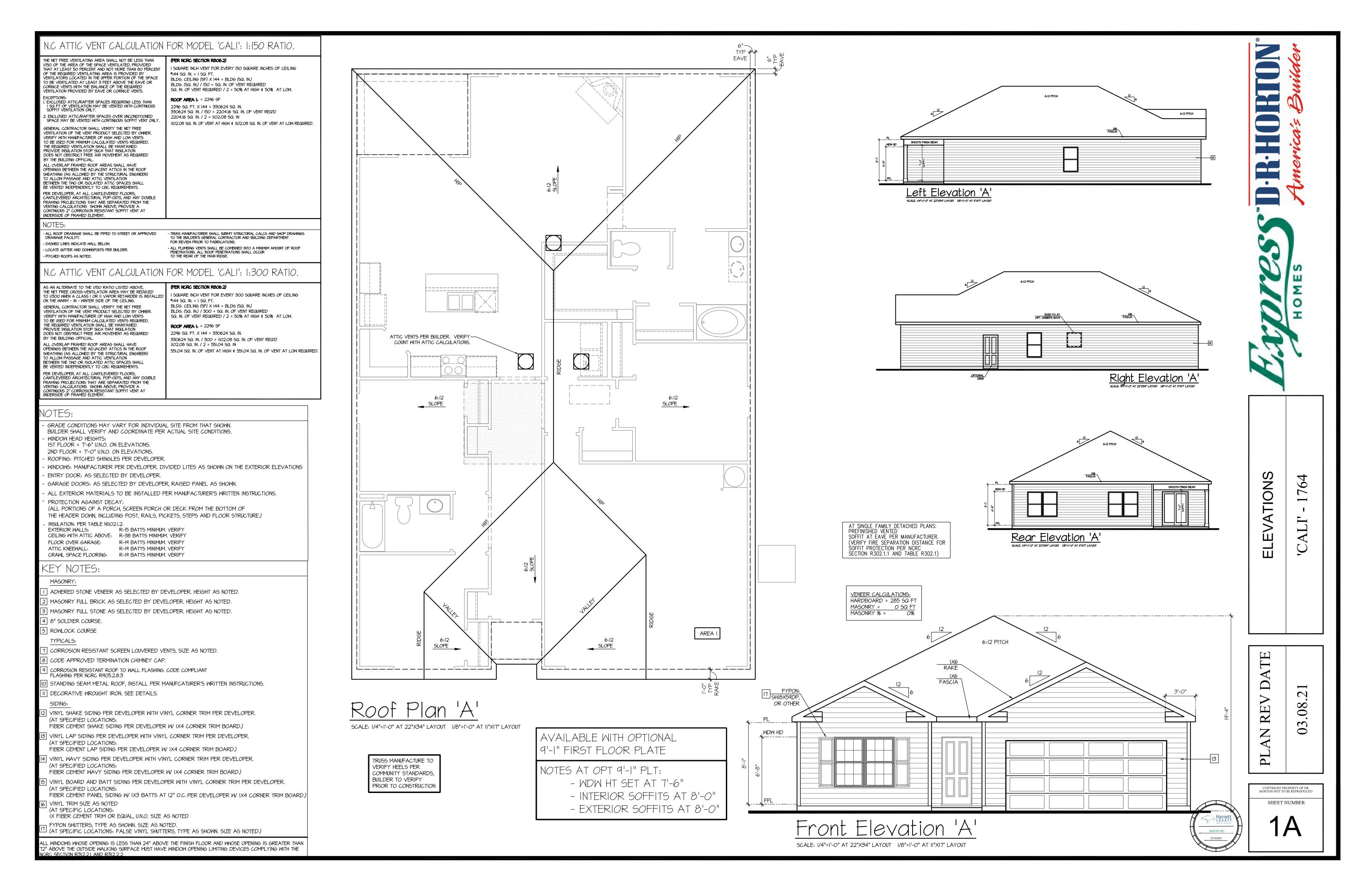
)3.08.21

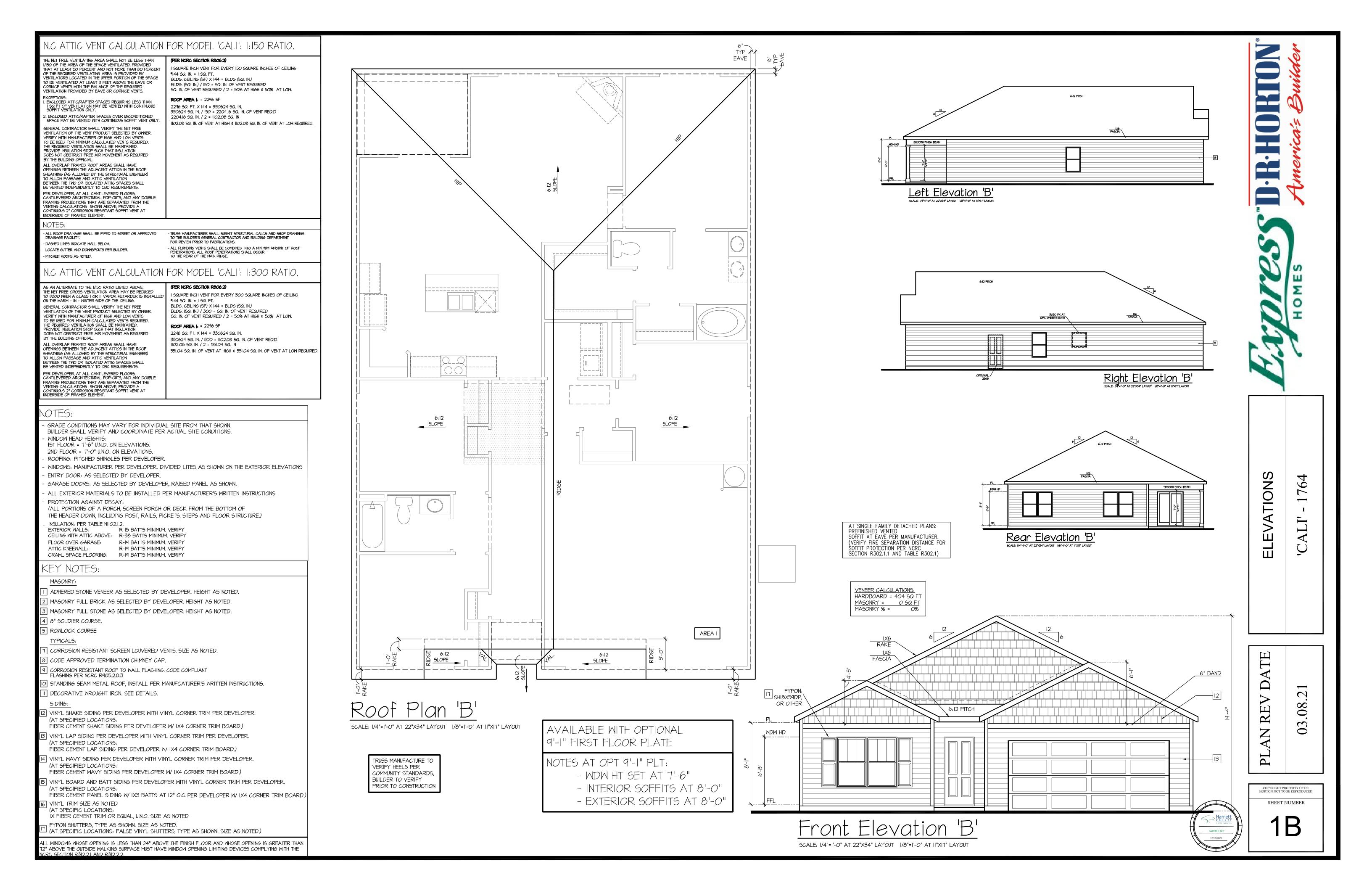
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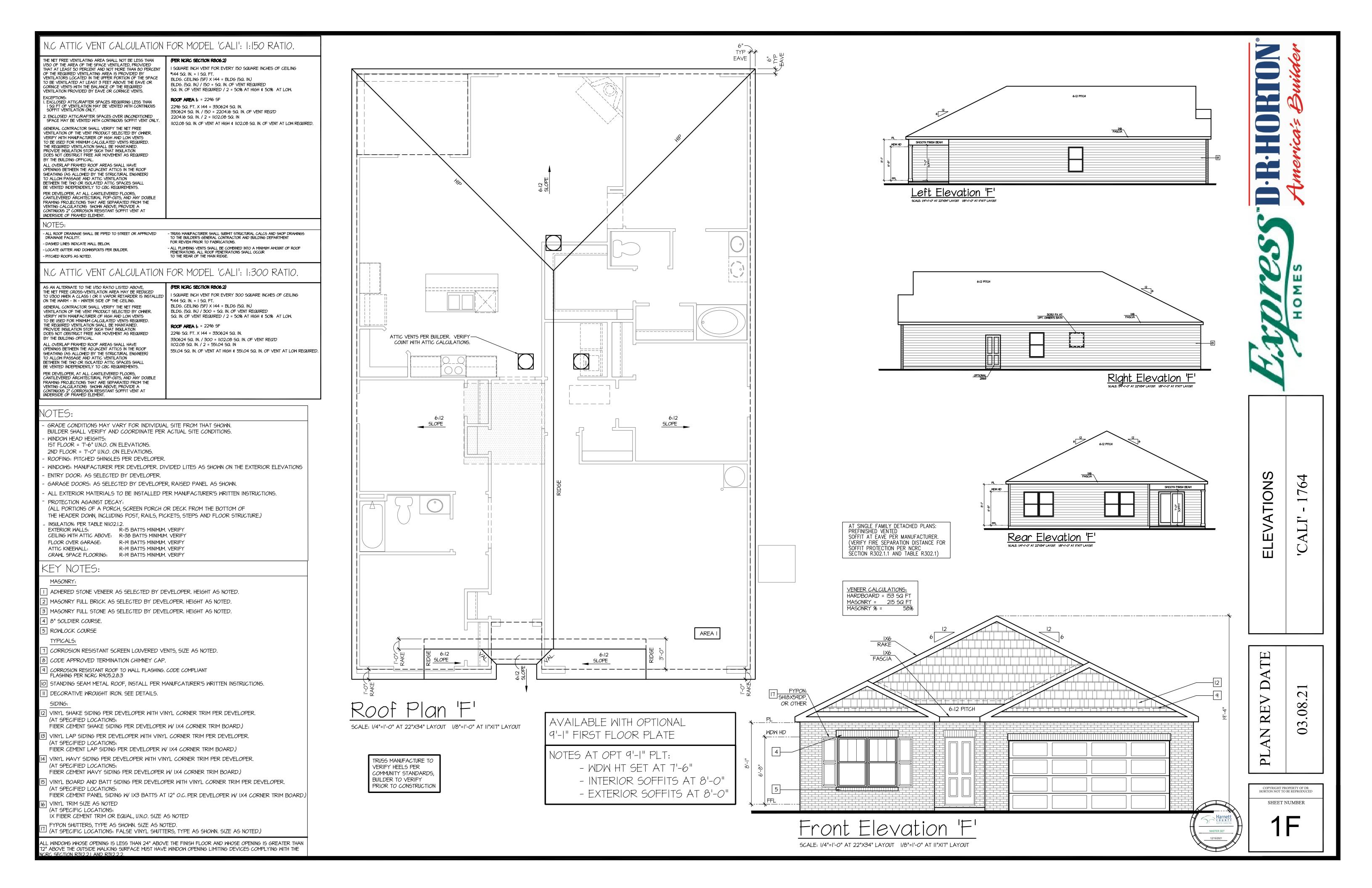
SHEET NUMBER

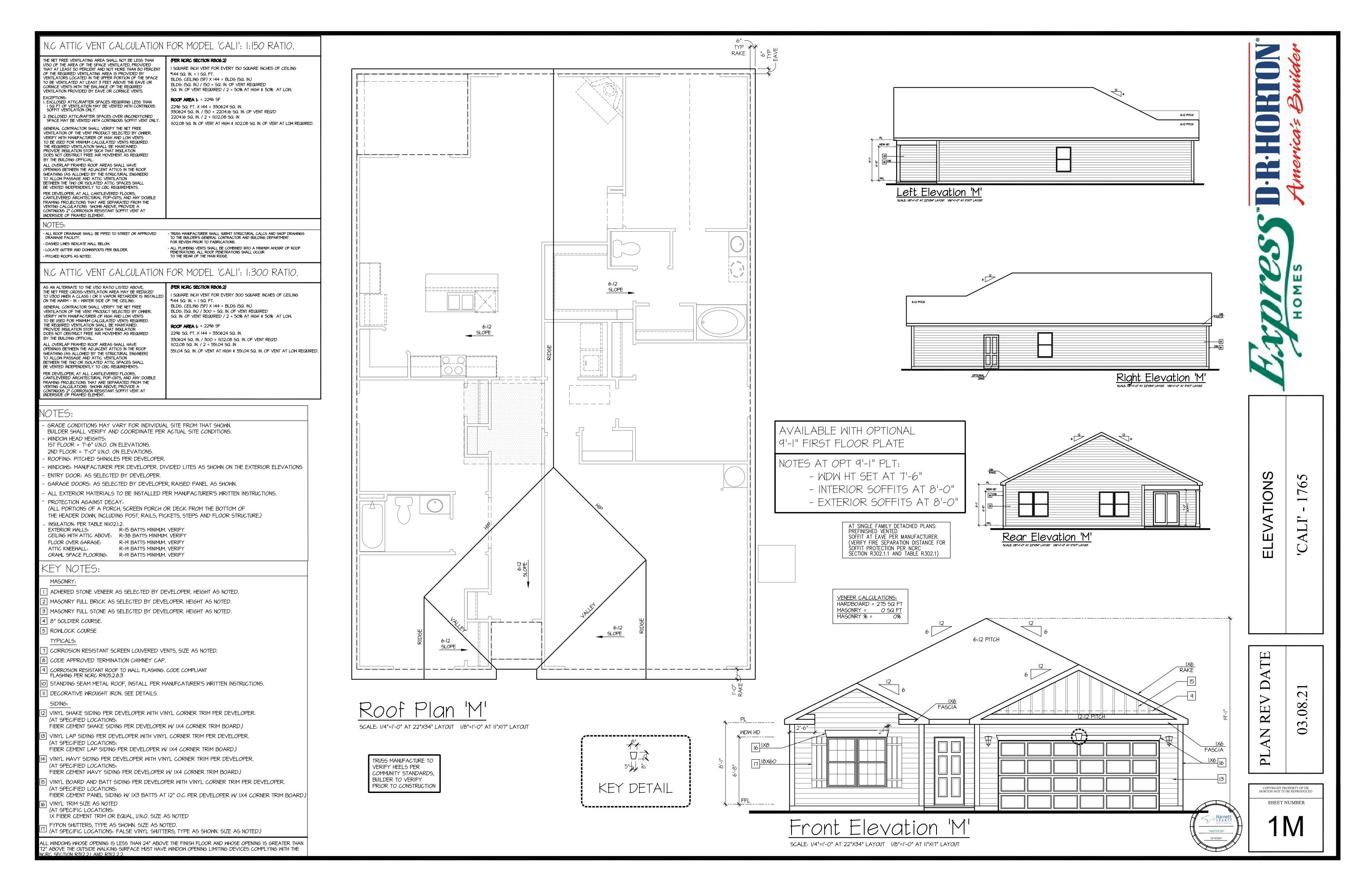
PLAN REV

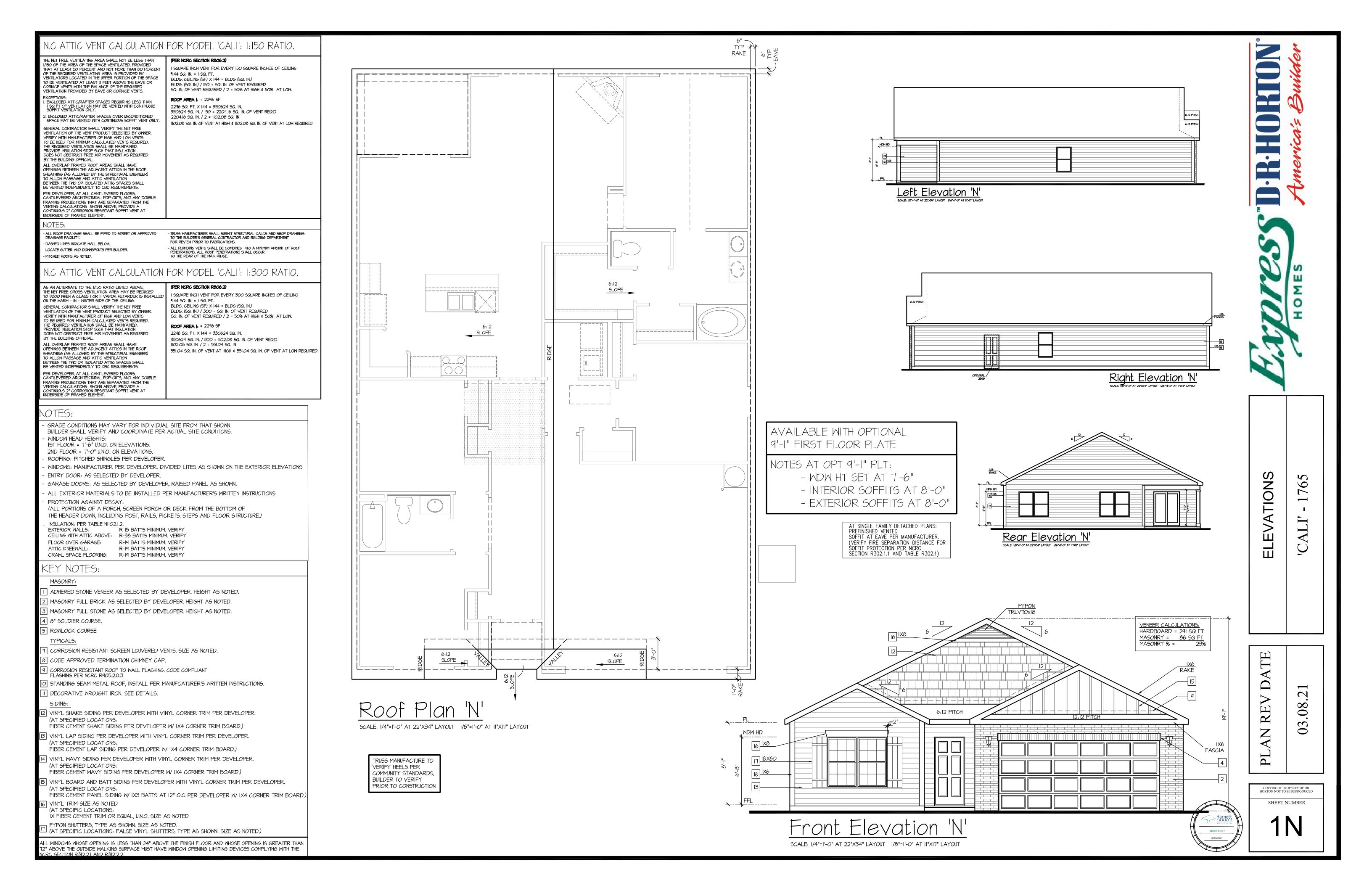
O.1

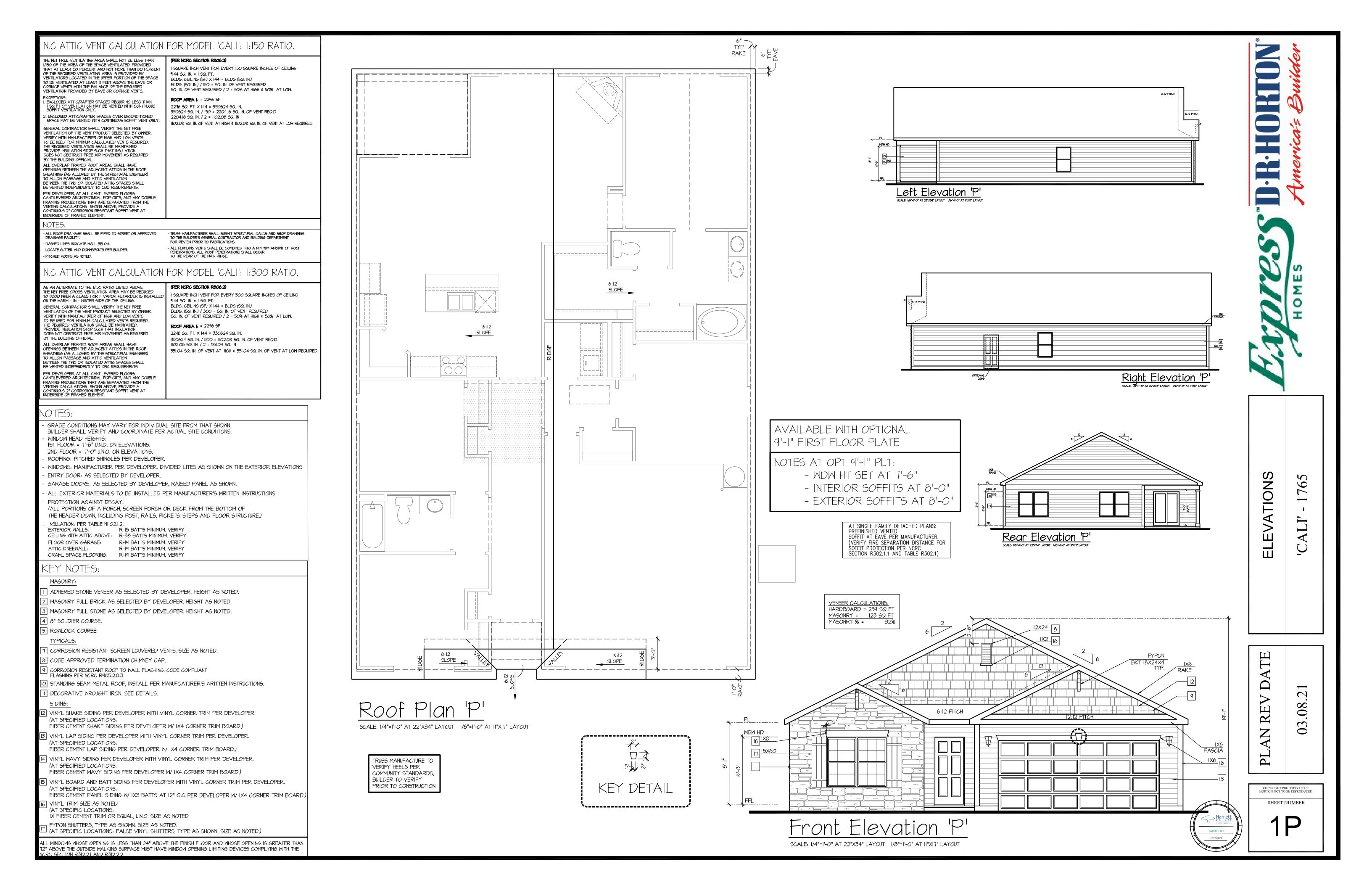


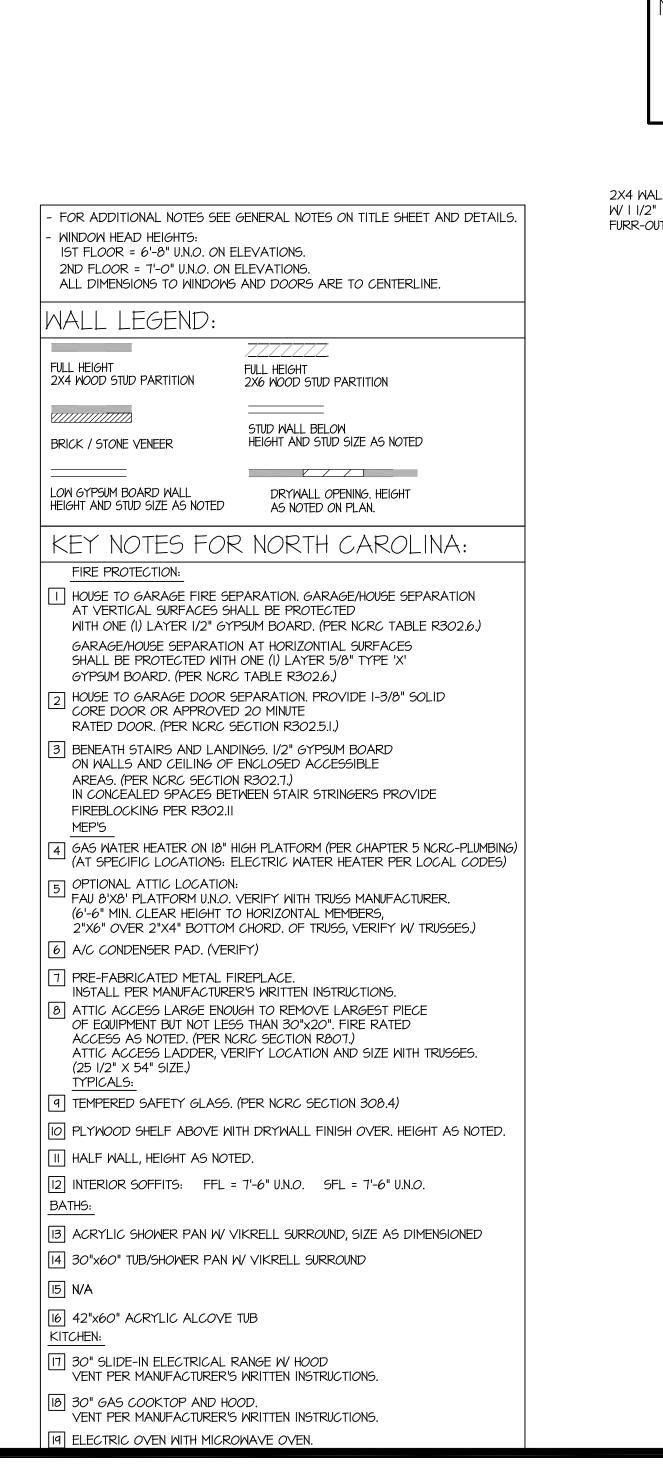






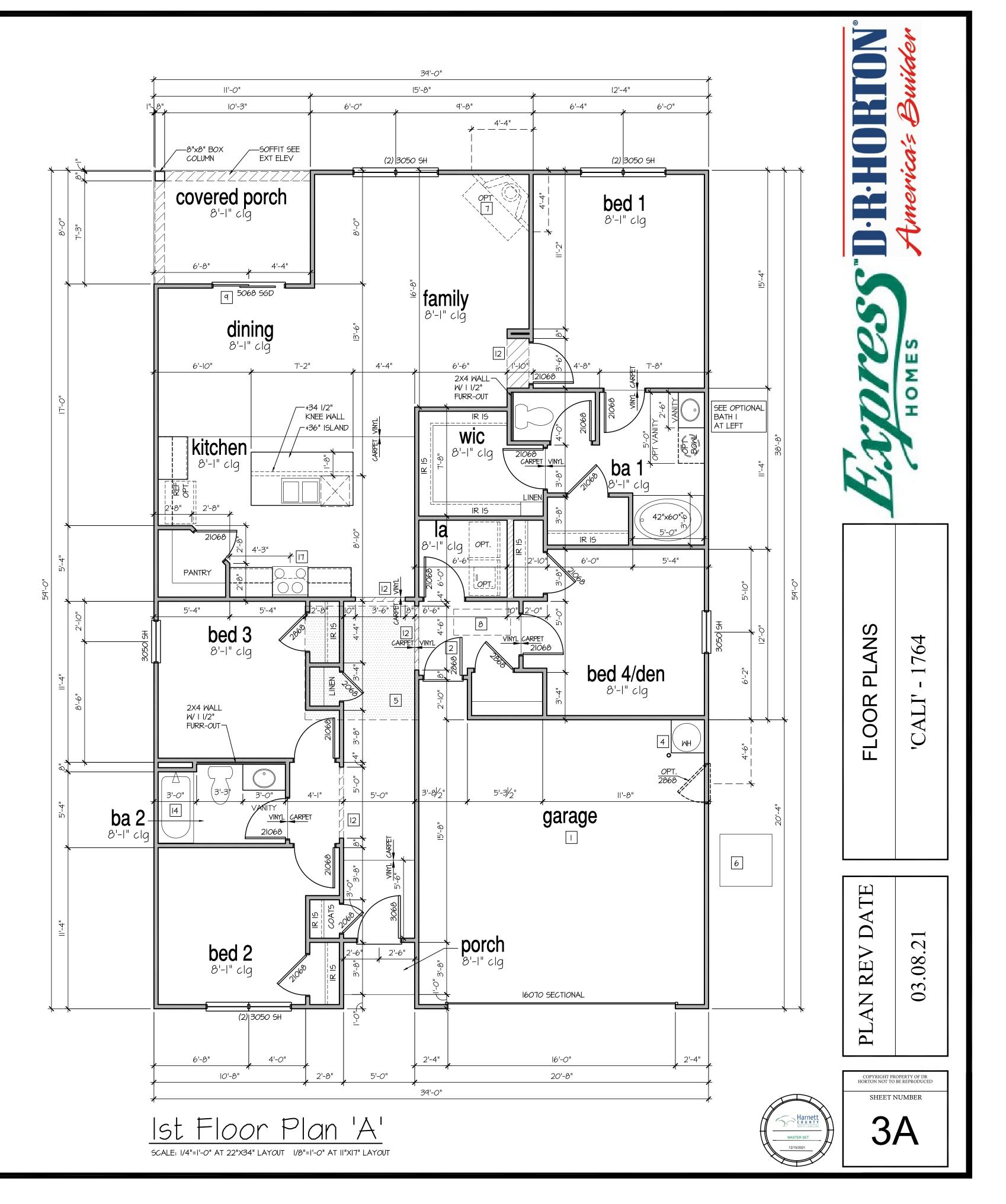


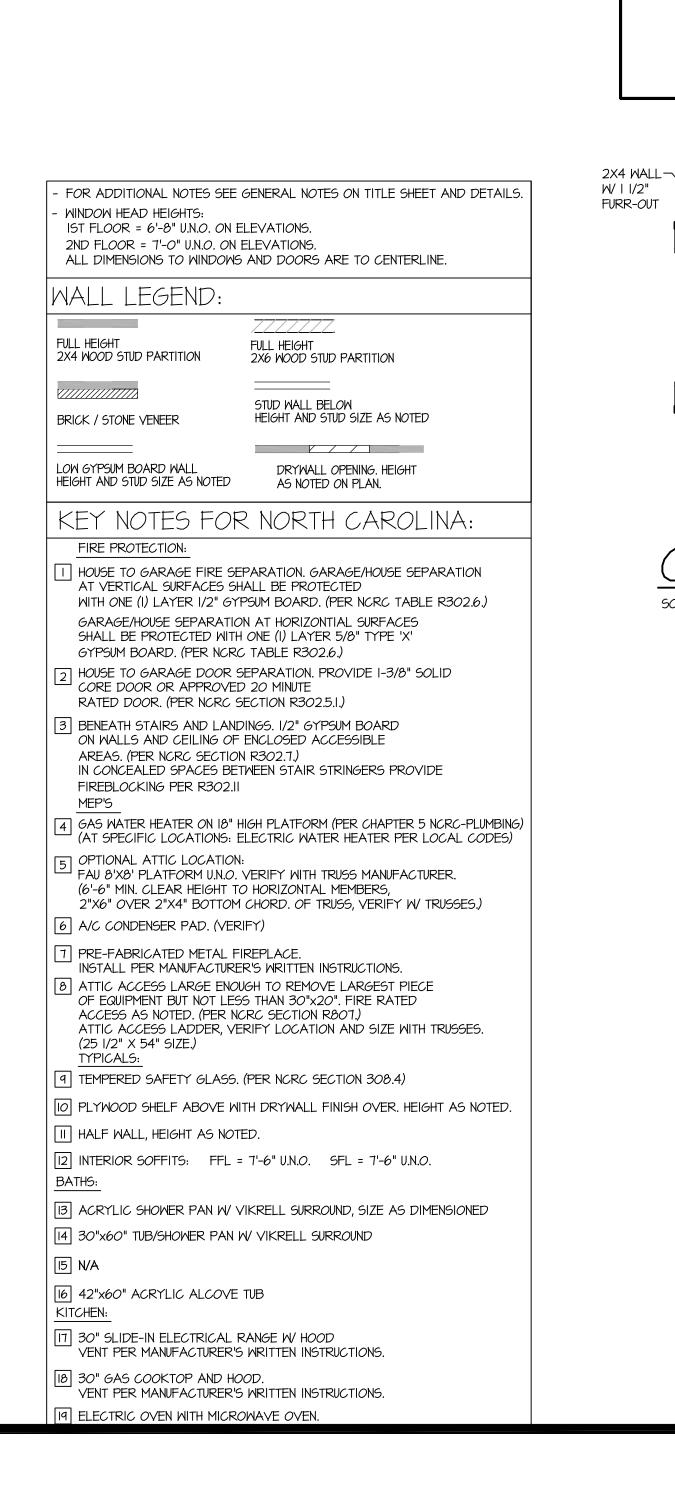




AVAILABLE WITH OPTIONAL 9'-1" FIRST FLOOR PLATE NOTES AT OPT 9'-1" PLT: - WDW HT SET AT 7'-6" - INTERIOR SOFFITS AT 8'-0" - EXTERIOR SOFFITS AT 8'-0" 2X4 WALL-FURR-OUT

Opt. Bath SCALE: 1/4"=1'-0" AT 22"X34" LAYOUT 1/8"=1'-0" AT 11"X17" LAYOUT





9'-1" FIRST FLOOR PLATE

NOTES AT OPT 9'-1" PLT:

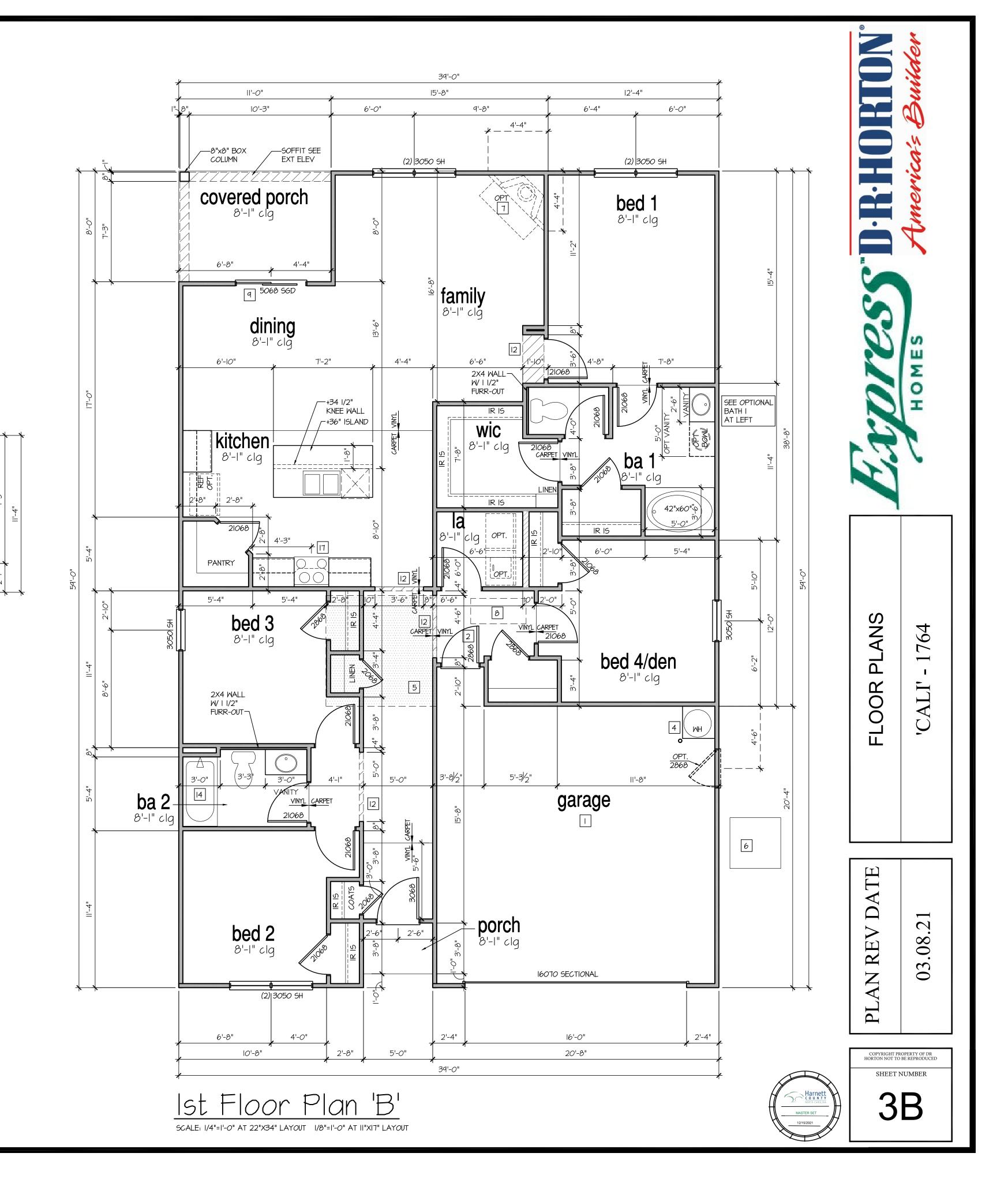
Opt. Bath

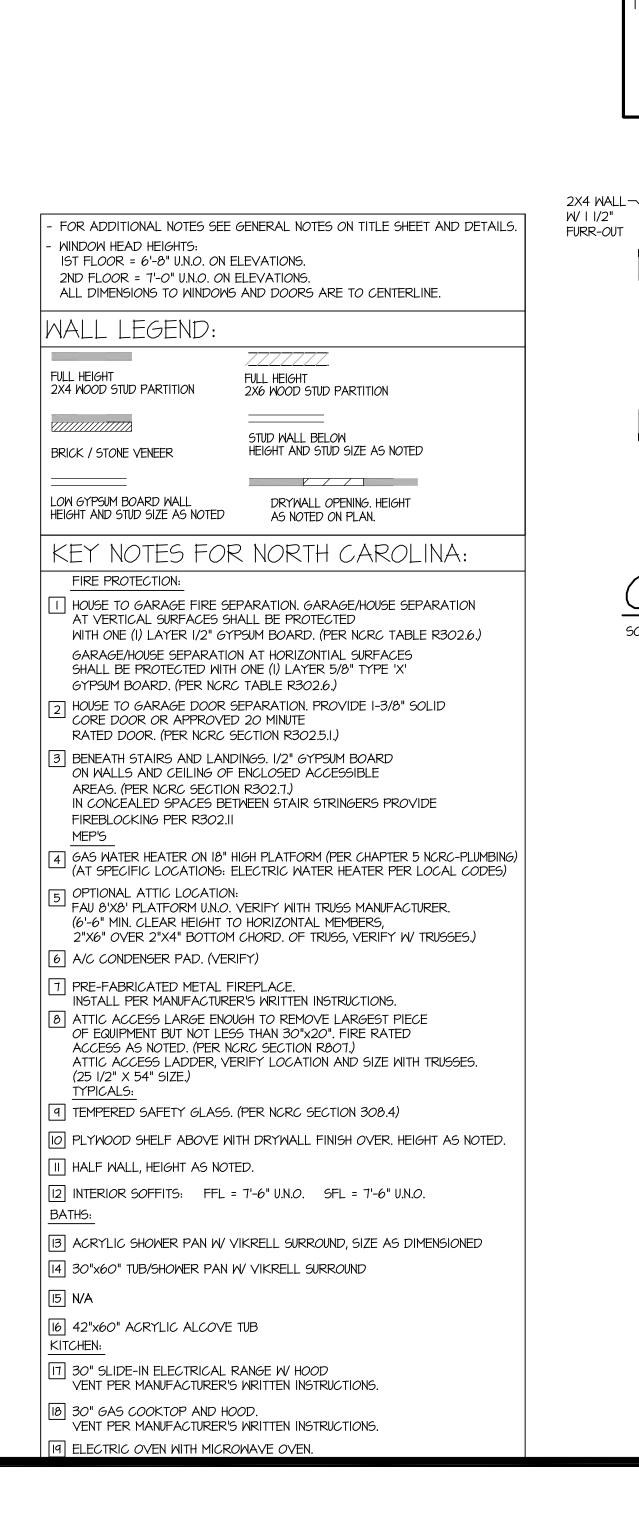
SCALE: 1/4"=1'-0" AT 22"X34" LAYOUT 1/8"=1'-0" AT 11"X17" LAYOUT

- WDW HT SET AT 7'-6"

- INTERIOR SOFFITS AT 8'-0"

- EXTERIOR SOFFITS AT 8'-0"





- WDW HT SET AT 7'-6"

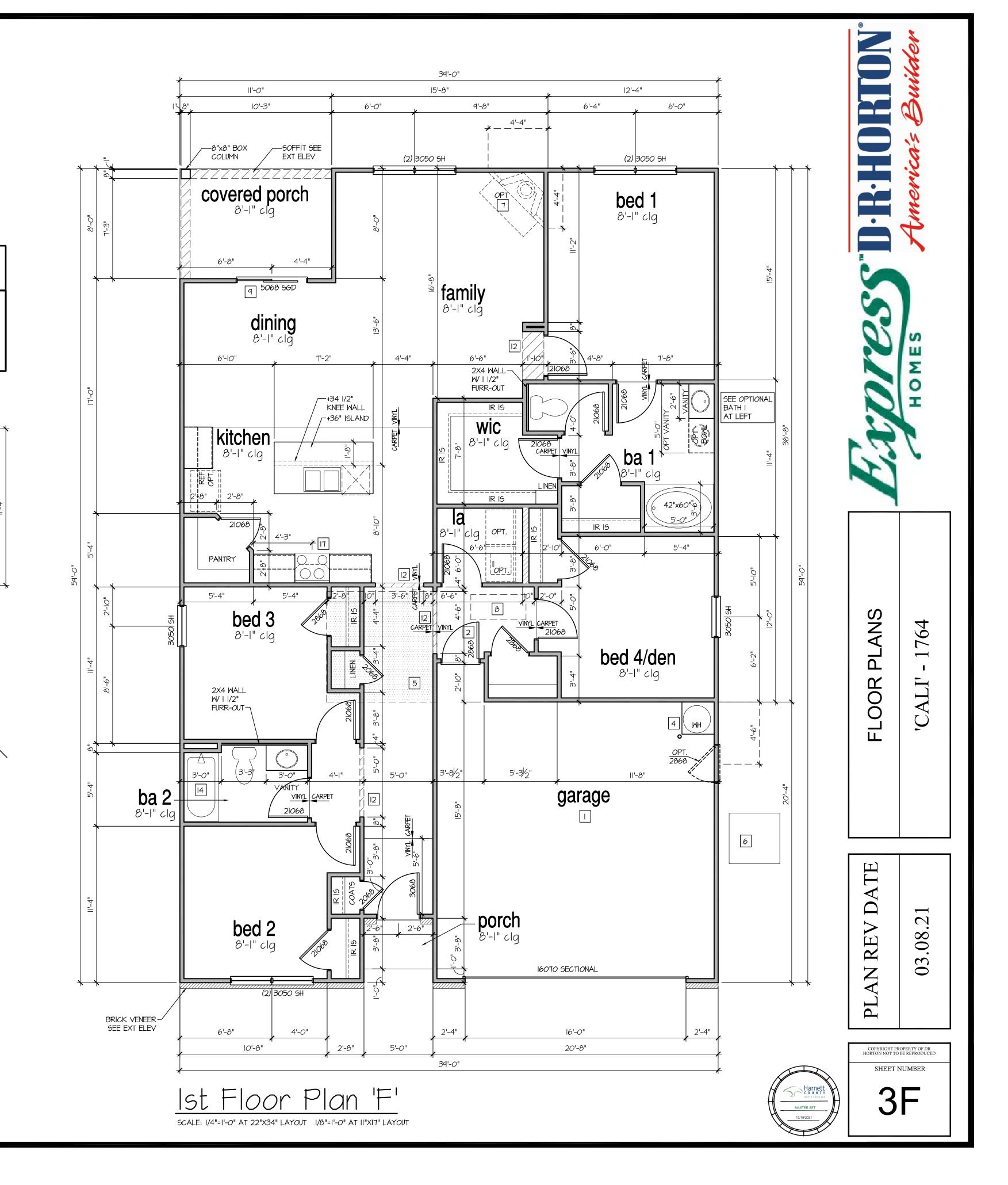
SCALE: 1/4"=1'-0" AT 22"X34" LAYOUT 1/8"=1'-0" AT 11"X17" LAYOUT

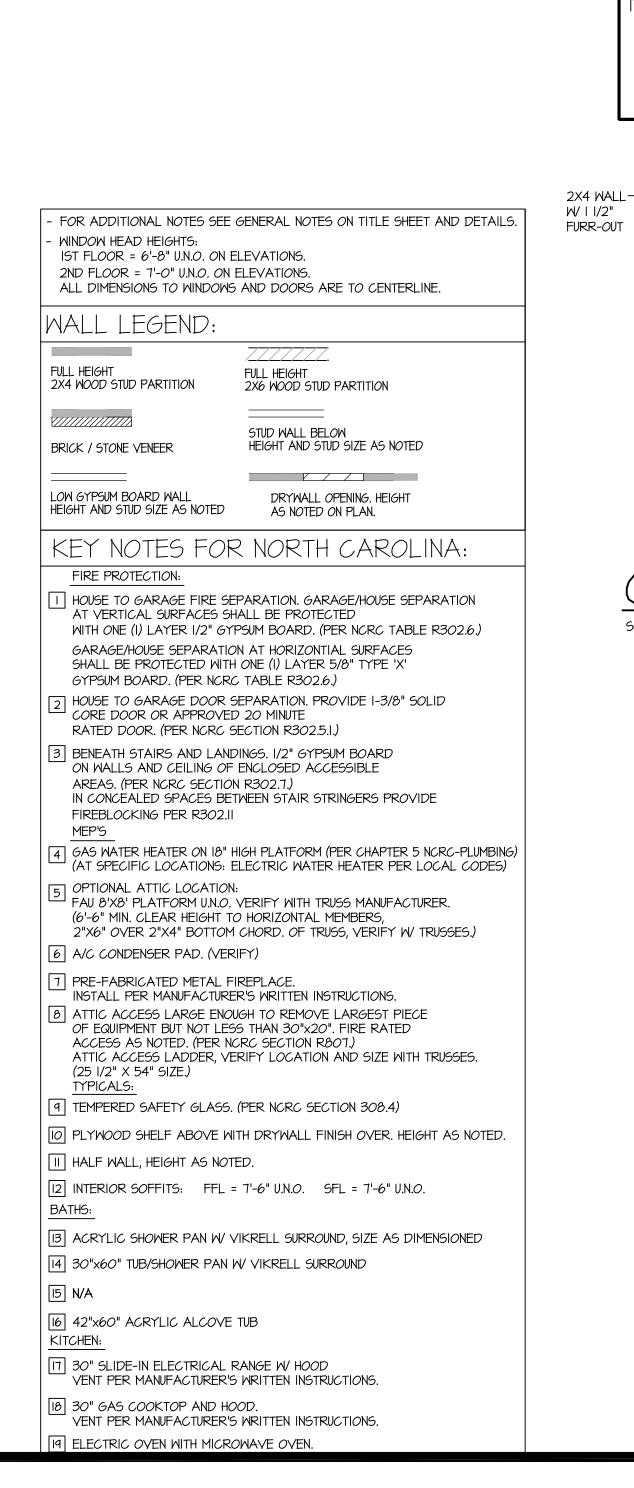
- INTERIOR SOFFITS AT 8'-0"

- EXTERIOR SOFFITS AT 8'-0"

9'-1" FIRST FLOOR PLATE

NOTES AT OPT 9'-1" PLT:





- WDW HT SET AT 7'-6"

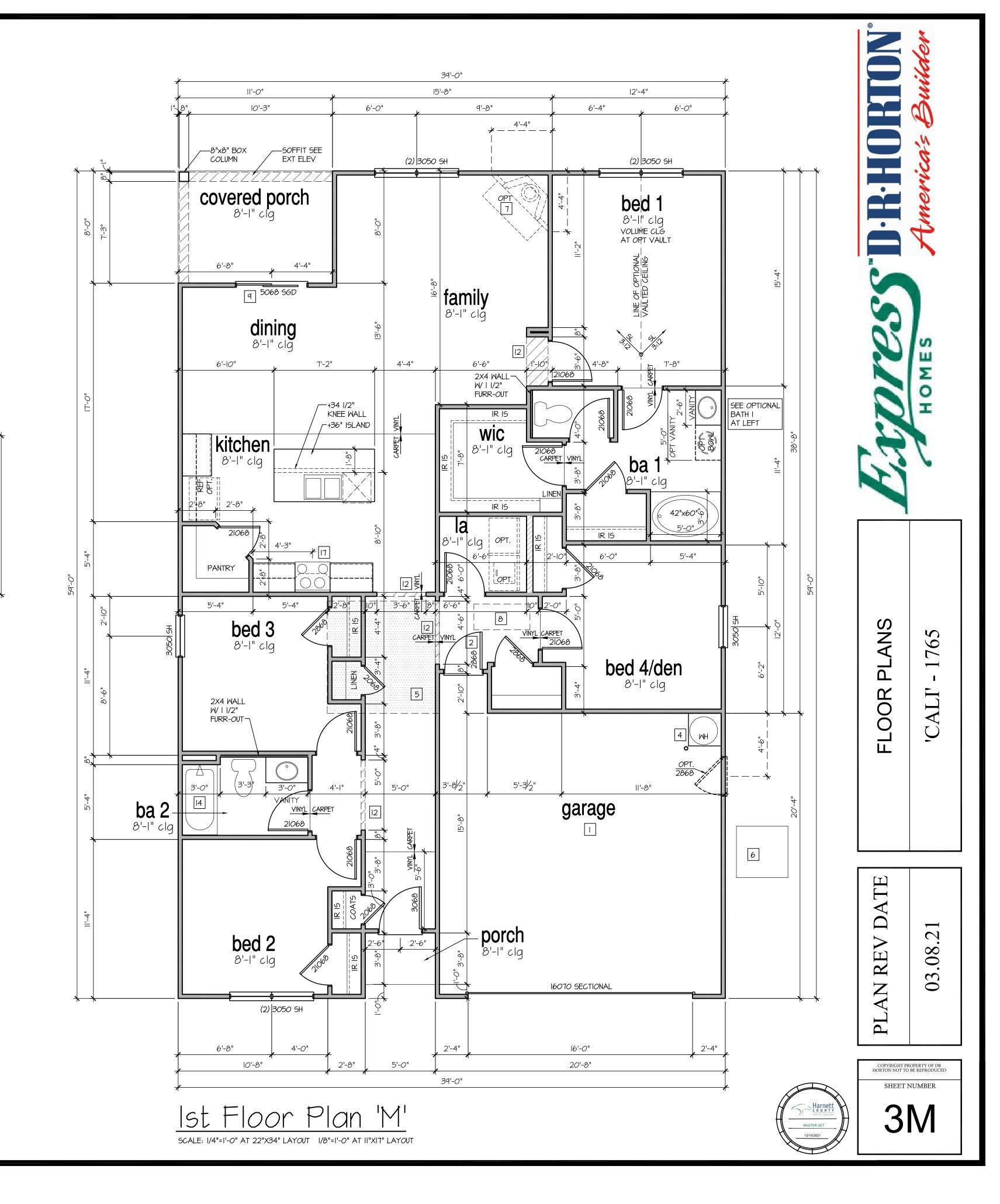
SCALE: 1/4"=1'-0" AT 22"X34" LAYOUT 1/8"=1'-0" AT 11"X17" LAYOUT

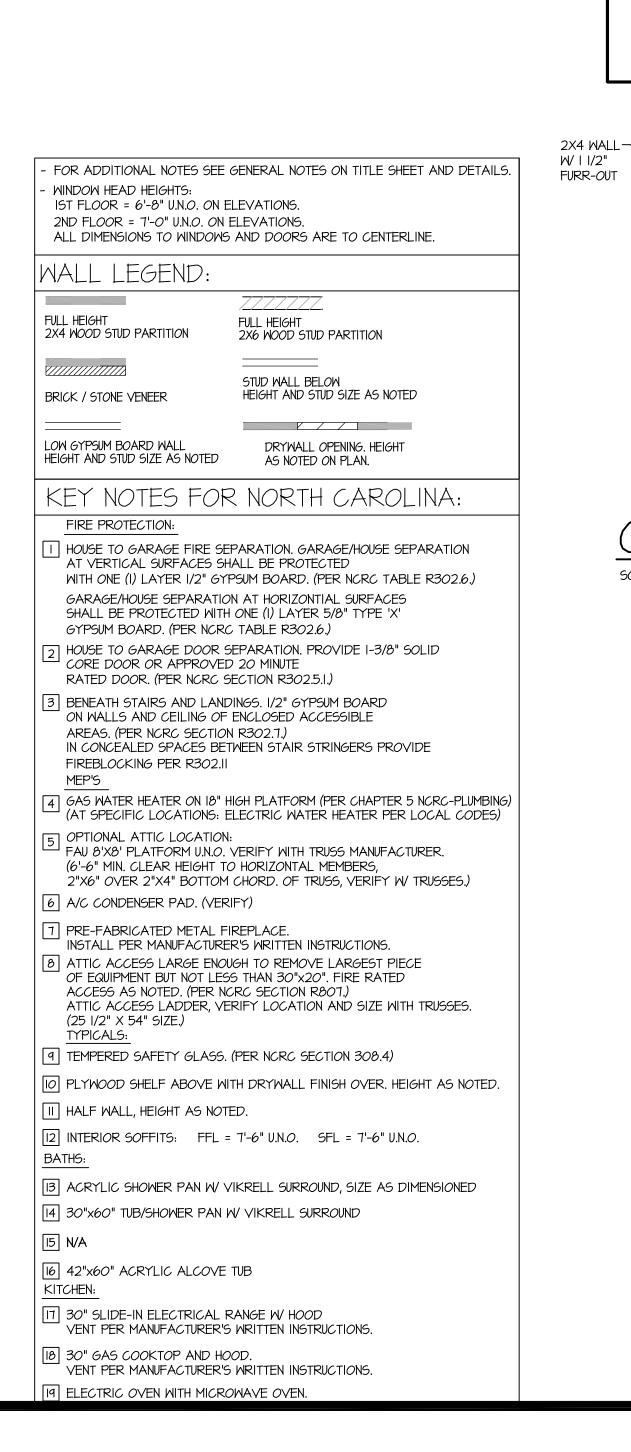
- INTERIOR SOFFITS AT 8'-0"

- EXTERIOR SOFFITS AT 8'-0"

9'-1" FIRST FLOOR PLATE

NOTES AT OPT 9'-1" PLT:





9'-1" FIRST FLOOR PLATE

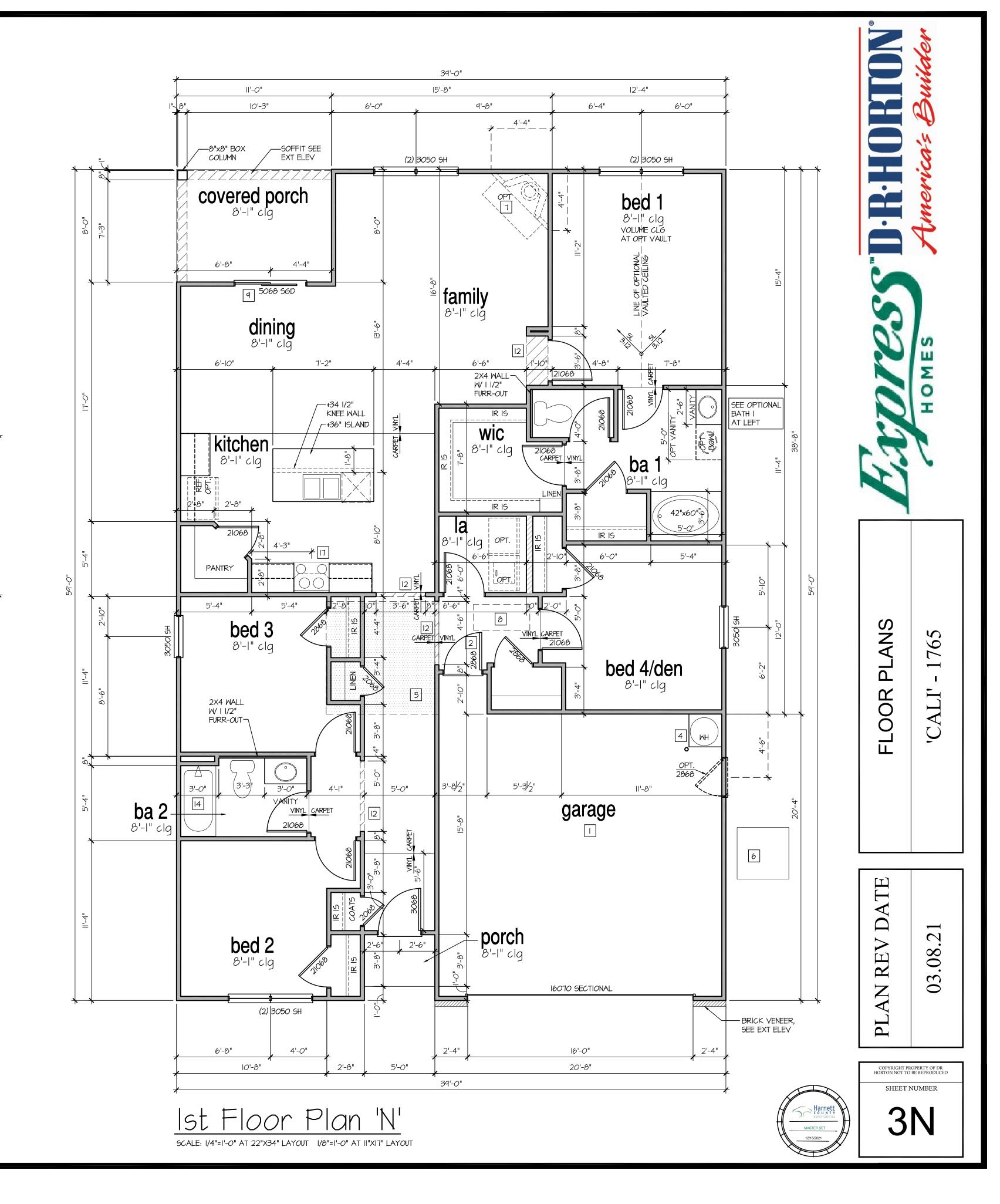
NOTES AT OPT 9'-1" PLT:

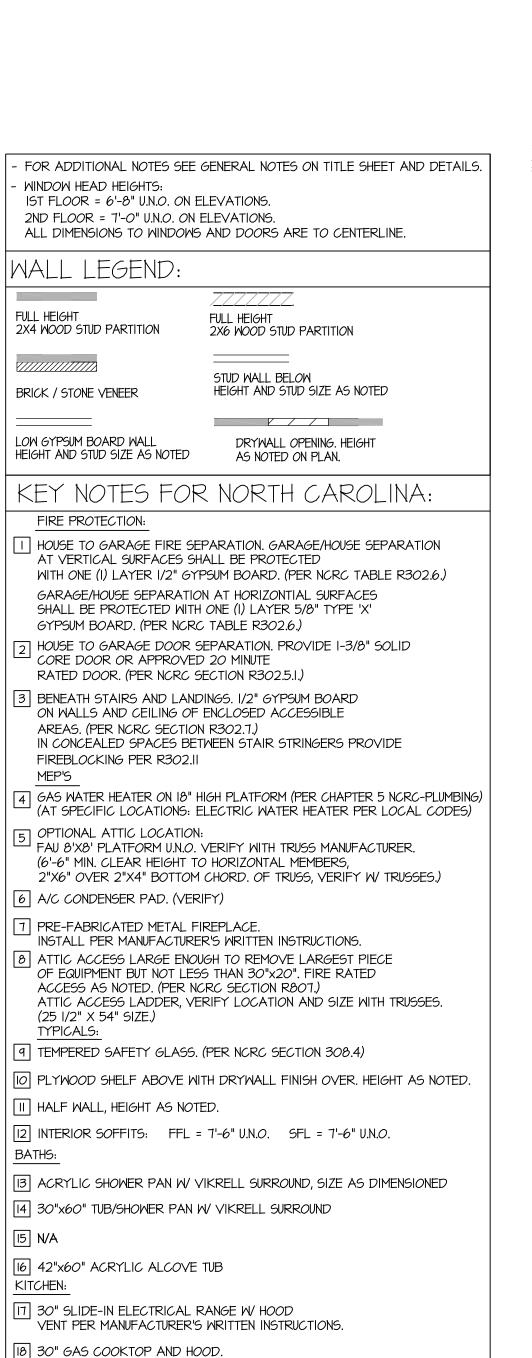
- WDW HT SET AT 7'-6"

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

- INTERIOR SOFFITS AT 8'-0"

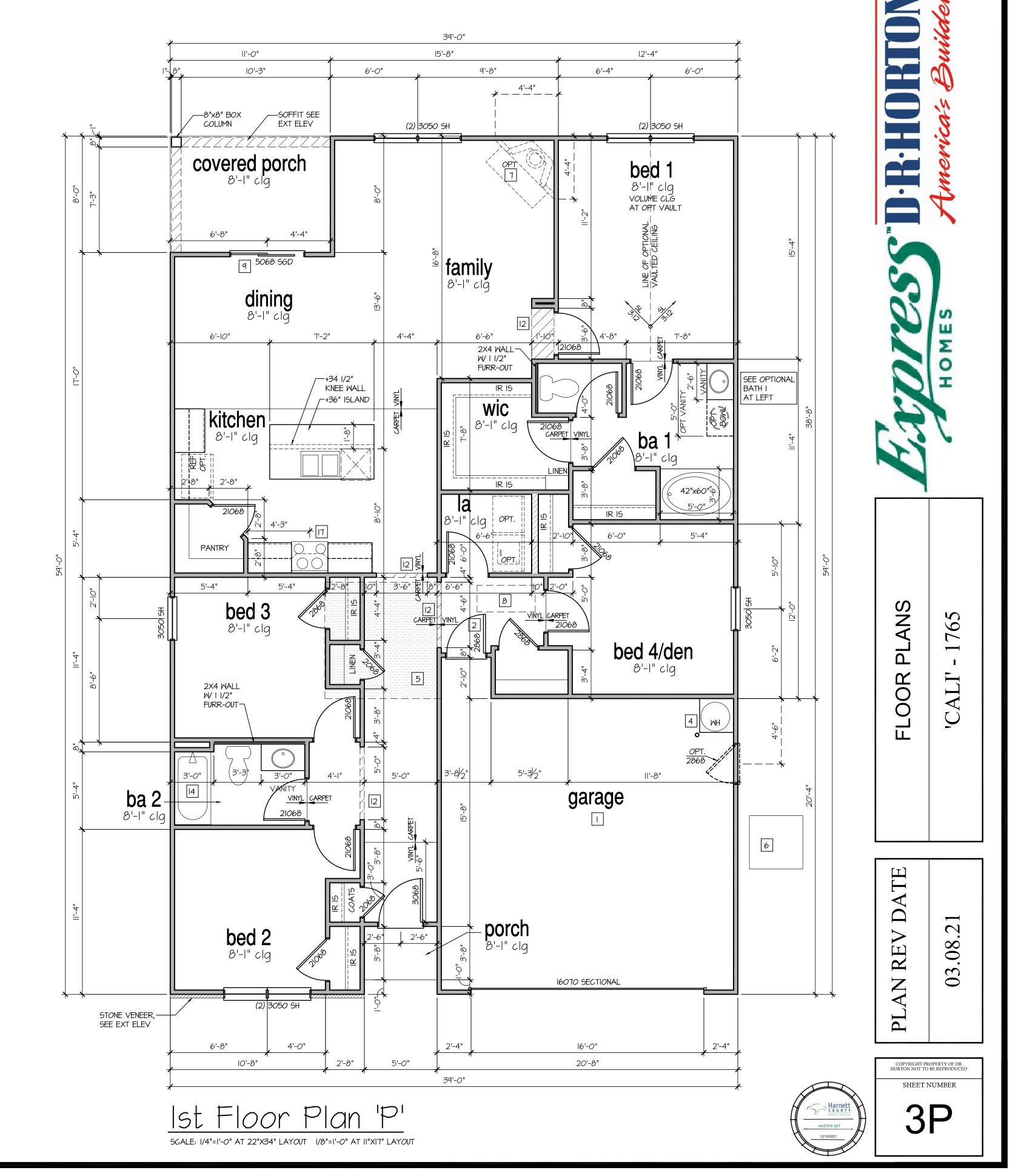
- EXTERIOR SOFFITS AT 8'-0"

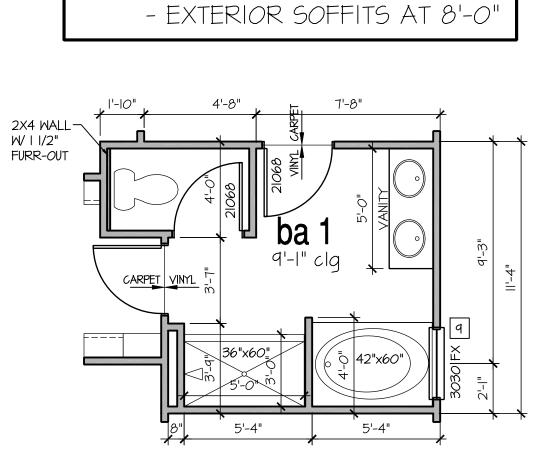




VENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

19 ELECTRIC OVEN WITH MICROWAVE OVEN.





- WDW HT SET AT 7'-6"

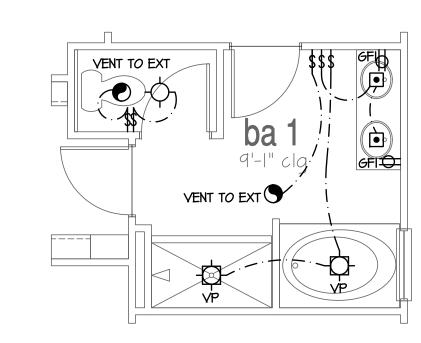
- INTERIOR SOFFITS AT 8'-0"

AVAILABLE WITH OPTIONAL

9'-1" FIRST FLOOR PLATE

NOTES AT OPT 9'-1" PLT:

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



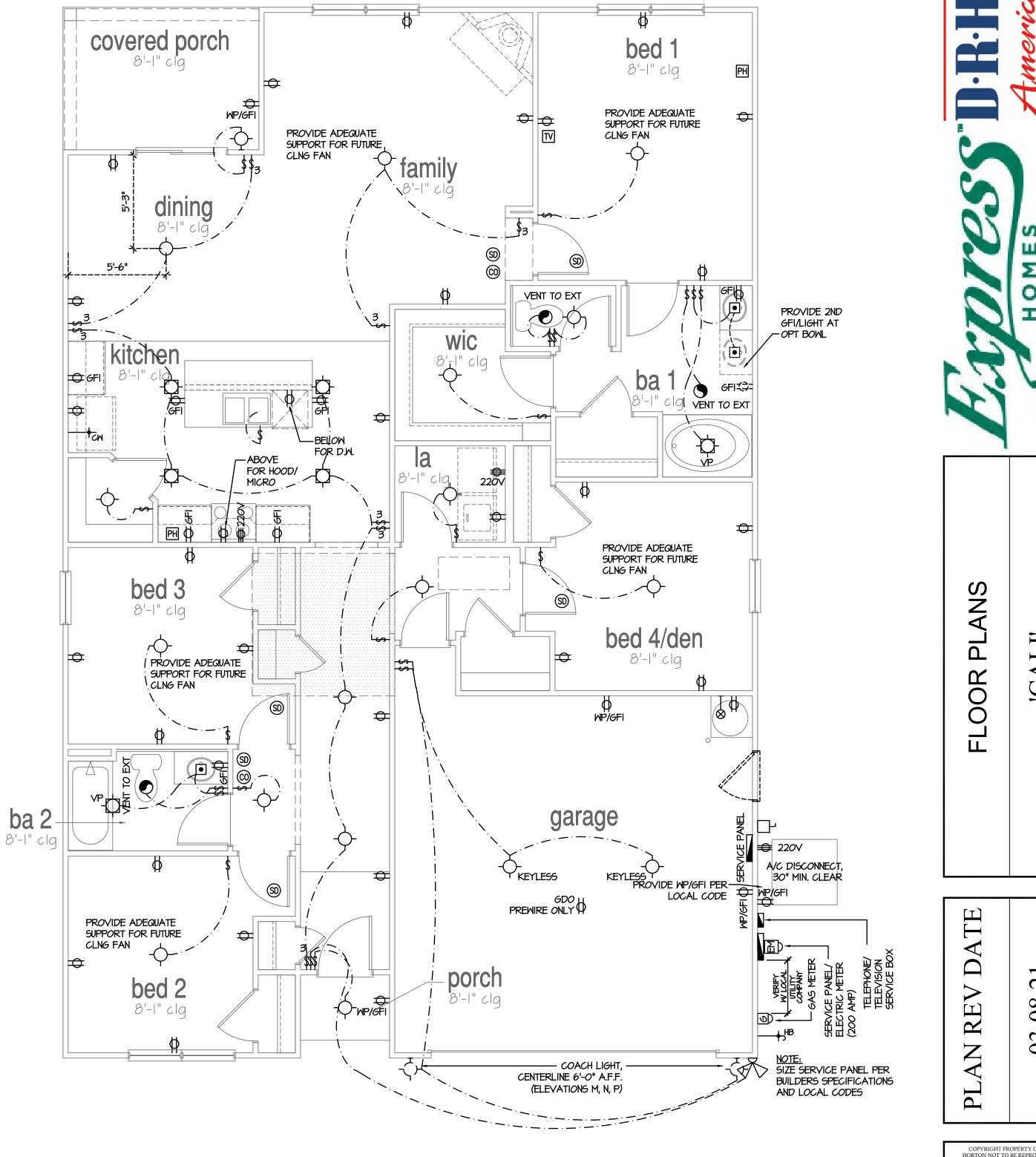
# Opt. Bath I

### NOTES

- 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.
- 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

LEGE	END:		
ф	DUPLEX OUTLET		FLUSH-MOUNT LED CEILING FIXTURE
фир/6F1	WEATHERPROOF GFI DUPLEX OUTLET	\ \frac{\psi}{\psi}	1 EOST FORT ELD GEILING FIXTURE
ф вы	GROUND-FAULT CIRCUIT-INTERRUPTER DUPLEX OUTLET	-ф-	HANGING FIXTURE
ф	HALF-SWITCHED DUPLEX OUTLET	\$	FLUSH-MOUNT LED CEILING FIXTURE
<b>\$</b> 220∨	220 YOLT OUTLET	CFP `	(PROVIDE CEILING FAN SUPPORT)
<b>③</b>	REINFORCED JUNCTION BOX	-\$	2-LIGHT VANITY FIXTURE
\$	MALL SMITCH	-\$	3-LIGHT VANITY FIXTURE
\$з	THREE-WAY SWITCH		
\$4	FOUR-WAY SWITCH		4-LIGHT VANITY FIXTURE
СН	CHIMES	<b>\( \daggerapsis</b>	WALL MOUNT FIXTURE
무	PUSHBUTTON SWITCH	•	EXHAUST FAN (VENT TO EXTERIOR)
(SI)	IIOV SMOKE DETECTOR W BATTERY BACKUP		CEILING FAN
@	CO2 DETECTOR		(PROVIDE ADEQUATE SUPPORT)
①	THERMOSTAT	$-\infty$	GAS SUPPLY WITH VALVE
PH	TELEPHONE		
TV	TELEVISION	→ HB	HOSE BIBB
	ELECTRIC METER	<del></del>	I/4" WATER STUB OUT
	ELECTRIC PANEL	Ж	
	DISCONNECT SWITCH	I 7	WALL SCONCE



<u>Ist Floor Plan 'A'</u>



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SHEET NUMBER

	I SPECIFICA				
Construc	tion Type: Co	mmerical 🗌	Residentia		
• 20	ple Building Co DI8 North Caro BCE 7-10: Minin	lina Residentia			ocal Amendments er Structures
Design L					
1.	Roof Live Lo	oads ntional 2x		20	DGE
		Attic Truss		60	PSF
2.	Roof Dead L	_oads ntíonal 2x		10	
3.					PSF
1	3.1. Importa	ance Factor		1.0	
т.		welling		40	PSF
	4.2. Sleepi	ng Areas		30	PSF
		nger Garage			
5.	Floor Dead L	_oads			
		ntional 2x			
		Truss			
6.	Ultimate Desi				
	ı	ure			
	6.3. Wind E	ance Factor Base Shear			
	6.3.1.				
٦.	6.3.2.	Vy = nd Cladding (	in PSE)		
.,	MEAN ROOF	:			
	HT.	UP TO 30'	30'1"-35'	35'1"-40'	40'1"-45'
	ZONE 1	16.7,-18.0	17.5,-18.9	18.2,-19.6	18.7,-20.2
	ZONE 2	16.7,-21.0	17.5,-22.1	18.2,-22.9	18.7,-23.5
	ZONE 3	16.7,-21.0	17.5,-22.1	18.2,-22.9	18.7,-23.5
	ZONE 4	18.2,-19.0	19.2,-20.0	19.9,-20.7	20.4,-21.3
	ZONE 5	18.2,-24.0	19.2,-25.2	19.9,-26.1	20.4,-26.9
8.	Seismic				
		lass			
		n Category ance Factor			
		c Use Group			
		al Response ,	Acceleration		
		Sms = %g Sm1 = %q			
	8.6. Seismid	c Base Shear			
	8.6.l. 8.6.2				
	8.6.2. 8.7. Basic	.vy = Structural Syst	.em (check or	ne)	
		⊠ Bearing Wa	a		
		<ul><li>□ Building Fr</li><li>□ Moment Fr</li></ul>			
		□ Moment Fra □ Dual w/ Sp		Frame	
		□ Dual w/ Int	ermediate R/0		Steel
	QQ 1	□ Inverted F			No
	oo Arch/li	1501 UOIIDONE	ilis Arichiorea		INO
		I Design Cont			



#### STRUCTURAL PLANS PREPARED FOR:

CAL

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

DESIGNER: GMD Design Group

PROJECT ADDRESS:

102 Fountain Brook Circle Suite C Cary, NC 27511

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

#### PLAN ABBREVIATIONS:

AB	ANCHOR BOLT	PT	PRESSURE TREATED
AFF	ABOVE FINISHED FLOOR	RS	ROOF SUPPORT
CJ	CEILING JOIST	SC	STUD COLUMN
CLR	CLEAR	SJ	SINGLE JOIST
DJ	DOUBLE JOIST	SPF	SPRUCE PINE FIR
DSP	DOUBLE STUD POCKET	SST	SIMPSON STRONG-TIE
EE	EACH END	SYP	SOUTHERN YELLOW PINE
ΕW	EACH WAY	ŤJ	TRIPLE JOIST
NTS	NOT TO SCALE	TSP	TRIPLE STUD POCKET
OC	ON CENTER	TYP	TYPICAL
PSF	POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
PSI	POUNDS PER SQUARE INCH	WWF	WELDED WIRE FABRIC

Roof truss and floor joist layouts, and their corresponding loading details, were not provided to SUMMIT Engineering, Laboratory & 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</u>, Inc. Subsequent plan revisions based on roof truss and floor joist layouts shall be noted in the revision list, indicating the date the layouts were provided. Should any discrepancies become apparent, the contractor shall notify SUMMIT immediately.

# SHEET LIST:

REVISION LIST:

Date

9.7.18 19583

11.20.18 19583R

12.14.18 19583R2

5.1.19 2179ØR

5.3.21 TØØ54

TØØ54

TØØ54

3.12.19 21790

3.8.21

3.16.21

9 6/3/2021 10054

Project

Revision

No.

Sheet No.	Description	
CSI	Cover Sheet, Specifications, Revisions	
S1.Øm	Monolithic Slab Foundation	
Sl.Øs	Stem Wall Foundation	
S1.0c	Crawl Space Foundation	
S1.0b	Basement Foundation	
S2.Ø	Basement Plan	
S3.Ø	Fírst Floor Plan	
S4.Ø	Second Floor Plan	
S5.Ø	Roof Framing Plan	

Description

Revised per new architecturals

Revised NC version only for 2018 NCRC

Covered porch standard on all elevations

Updated TN version only to 2018 IRC

Added elevation L

Updated Garage Foundation Wall

Added OX-15 Bracing Plan

Added SPF note option

Updated OX-15 bracing table for framing

# DR HORTON PROJECT SIGN-OFF:

Manager	Signature
Operations	
Operations System	
Operations Product Development	

# FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM

SUMMIT

3070 HAMMOND BUSINESS PLACE, SUITE 171 RALEIGH, NC 27603 OFFICE: 919.380.9991



### 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 the purposes of these construction documents the SER and SUMMIT
- shall be considered the same entity. The structure is only stable in its completed form. The contractor shall provide all required temporary bracing during construction
- to stabilize the structure. The SER is not responsible for construction sequences, methods, or techniques in connection with the construction of this structure. The SER will not be held responsible for the contractor's failure to conform to the contract documents, should any non-conformities occur.
- Any structural elements or details not fully developed on the construction drawings shall be completed under the direction of a licensed professional engineer. These shop drawings shall be submitted to SUMMIT for review before any construction begins. The shop drawings will be reviewed for overall compliance as it relates to the structural design of this project. Verification of the shop drawings for dimensions, or for actual field conditions, 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.
- 6. The SER is not responsible for any secondary structural elements or non-structural elements, except for the elements specifically noted on the structural drawings.
- This structure and all construction shall conform to all applicable sections of the international residential code.
- 8. This structure and all construction shall conform to all applicable sections of local building codes.
- 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 region in which the structure is to be constructed. However, the bottom of all footings shall be a minimum of 12" below grade. 3. Any fill shall be placed under the direction or recommendation
- of a licensed professional engineer. 4. The resulting soil shall be compacted to a minimum of 95%
- maximum dry density. 5. 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. 6. No concrete shall be placed against any subgrade containing
- water, ice, frost, or loose material.

- 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<sub>11</sub>) of 36 ksi unless
- 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 ETØXX. All welding shall be performed by a certified welder per the above

- Concrete shall have a normal weight aggregate and a minimum compressive strength (f'c) at 28 days of 3000 psi, unless otherwise noted on the plan.
- Concrete shall be proportioned, mixed, and placed in accordance with the latest editions of ACI 318: "Building Code Requirements for Reinforced Concrete" and ACI 301: "Specifications for Structural Concrete for Buildings".
- Air entrained concrete must be used for all structural elements exposed to freeze/thaw cycles and deicing chemicals. Air entrainment amounts (in percent) shall be within -1% to +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.

- The bottom of all footings shall extend below the frost line for 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 cut joints shall be spaced in interior slabs-on-grade at a maximum of 15'-0" O.C. and in exterior
  - slabs-on-grade at a maximum of 10'-0" unless otherwise noted. Control or saw cut joints shall be produced using conventional process within 4 to 12 hours after the slab has been finished
  - Reinforcing steel may not extend through a control joint. Reinforcing steel may extend through a saw cut joint. 10. All welded wire fabric (W.W.F.) for concrete slabs-on-grade shall
  - be placed at mid-depth of slab. The W.W.F. shall be securely supported during the concrete pour.

### CONCRETE REINFORCEMENT:

- Fibrous concrete reinforcement, or fibermesh, specified in concrete slabs-on-grade may be used for control of cracking due to shrinkage and thermal expansion/contraction, lowered water migration, an increase in impact capacity, increased abrasion resistance, and residual strength.
- Fibermesh reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.
- 3. Application of fibermesh per cubic yard of concrete shall equal a minimum of 0.1% by volume (1.5 pounds per cubic yard) Fibermesh shall comply with ASTM CIII6, any local building code

requirements, and shall meet or exceed the current industry

- standard. Steel reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.
- 6. 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
- 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.

size/spacing as the horizontal reinforcement with a class B

and shall have 90° bends, or corner bars with the same

- 3. 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
- 10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted.
- WOOD FRAMING: Solid sawn wood framing members shall conform to the specifications listed in the latest edition of the "National Design Specification for Wood Construction" (NDS). Unless otherwise noted, all wood framing members are designed to be Southern-Yellow-Pine (SYP) #2 or Southrn-Spruce Pine (SPF) #2.
- LYL or PSL engineered wood shall have the following minimum design values: 2.1. E = 1,900,000 psi 2.2. Fb = 2600 psi
- 2.3. FV = 285 psi2.4.Fc = 700 psi
- Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-15. All other moisture exposed wood shall be treated in accordance with AWPA standard C-2
- Nails shall be common wire nails unless otherwise noted. Lag screws shall conform to ANSI/ASME standard B18.2.1-1981. Lead holes for lag screws shall be in accordance with NDS specifications.
- 6. 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.
- Individual studs forming a column shall be attached with one 10d nail @ 6" O.C. staggered. The stud column shall be continuous to the foundation or beam. The column shall be properly blocked at all floor levels to ensure proper load transfer. Multi-ply beams shall have each ply attached with (3) 10d nails a
- 10. 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 truss manufacturer/fabricator is responsible for the design of the wood trusses. Submit sealed shop drawings and supporting calculations to the SER for review prior to fabrication. The SER shall have a minimum of five (5) days for review. The review by the SER shall review for overall compliance with the design documents. The SER shall assume no responsibility for the correctness for the structural design for
- the wood trusses. The wood trusses shall be designed for all required loadings as specified in the local building code, the ASCE Standard "Minimum Design Loads for Buildings and Other Structures." (ASCE 7-10), and the loading requirements shown on these specifications. The truss drawings shall be coordinated with all other construction documents and provisions provided for loads shown on these drawings including but not limited to HVAC equipment, piping, and architectural fixtures attached to the trusses.
- 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:

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

- 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
- Roof sheathing shall be continuous over two supports and attached to its supporting roof framing with (1)-8d CC nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied with the long direction perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge support by use of plywood clips or lumber blocking unless otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as
- support by use of T&G plywood or lumber blocking unless state Building Code.
- Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

### TRUCTURAL FIBERBOARD PANELS:

- 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
- recommended in accordance with the AFA.

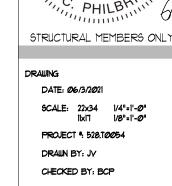
perpendicular to framing, unless noted otherwise. Roof sheathing shall be APA rated sheathing exposure 1 or 2. required by the state Building Code.

Wood floor sheathing shall be APA rated sheathing exposure 1 or 2. Attach sheathing to its supporting framing with (1)-8d CC ringshank nail at 6"o/c at panel edges and at 12"o/c in panel field unless otherwise noted on the plans. Sheathing shall be applied perpendicular to framing. Sheathing shall have a span rating consistent with the framing spacing. Use suitable edge otherwise noted. Panel end joints shall occur over framing. Apply building paper over the sheathing as required by the

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.

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



ORIGINAL INFORMATION

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS





#### FOUNDATION NOTES:

- FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL
- 2. STRUCTURAL CONCRETE TO BE  $F_c = 3000$  PSI, PREPARED AND PLACED IN
- ACCORDANCE WITH ACI STANDARD 318. 3. FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE ENFORCEMENT OFFICIAL.
- 4. 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.
- 1. PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL. 8. PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.
- 9. PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- 10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK
- CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS. 8. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.1.6. MINIMUM 1/2" DIA. BOLTS SPACED AT 6'-0" ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE SECTION. MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- 9. ABBREVIATIONS:

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

- 10. ALL PIERS TO BE 16"x16" MASONRY AND ALL PILASTERS TO BE 8"x16" MASONRY, TYPICAL. (UNO)
- 11. WALL 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 & 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 SOIL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL.

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS AND ANY REQUIRED HOLDOWNS, ADDITIONAL INFORMATION PER SECTION R602.10.8 AND FIGURES R602.10.6.5, R602.10.1, R602.10.8(1) AND R602.10.8(2) OF THE 2015 IRC

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

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP | PER TABLE R405.1

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

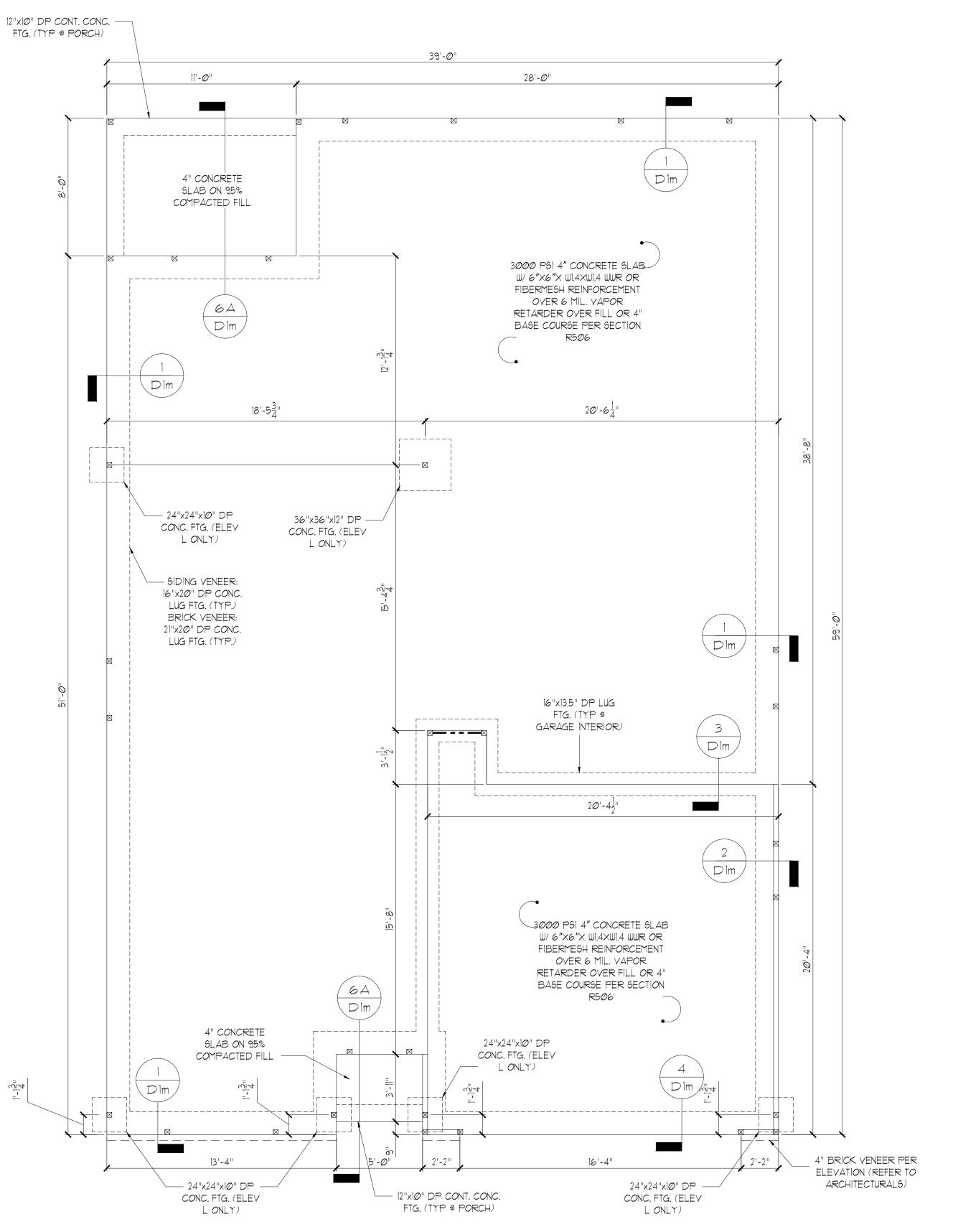
# STRUCTURAL MEMBERS ONLY

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.

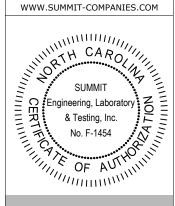
MONOLITHIC SLAB FOUNDATION PLAN

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



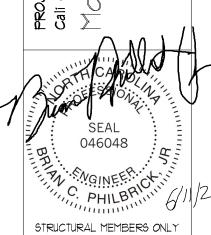
ALL ELEVATIONS

SUMMIT 3070 HAMMOND BUSINESS PLACE, SUITE 171 RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993





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DATE: 06/3/2021 9CALE: 22x34 |/4"=|'-0" ||x|T |/8"=|'-0" PROJECT \*: 528.T0054 DRAWN BY: JV CHECKED BY: BCP

ORIGINAL INFORMATION

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

#### FOUNDATION NOTES:

- 1. FOUNDATIONS TO BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
- 2. STRUCTURAL CONCRETE TO BE F<sub>c</sub> = 3000 PSI, PREPARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318.
- 3. FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE ENFORCEMENT OFFICIAL.
- 4. 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 MASONRY.
- 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.
- 8. PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.
- 9. PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- 10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK VENERS
- CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS.
   FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.16. MINIMUM 1/2" DIA. BOLTS SPACED AT 6'-0" ON CENTER WITH A 1" 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. ABBREVIATIONS:

DJ = DOUBLE JOIST
GT = GIRDER TRUSS
SC = STUD COLUMN
EE = EACH END
TJ = TRIPLE JOIST
CL = CENTER LINE

SJ = SINGLE JOIST
FT = FLOOR TRUSS
FT = FLOOR TRUSS
TR = TRIPLE RAFTER
OC = ON CENTER
PL = POINT LOAD

- 10. ALL PIERS TO BE 16"X16" MASONRY AND ALL PILASTERS TO BE 8"X16" MASONRY, TYPICAL. (UNO)
- 11. WALL 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 & 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 SOIL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL.

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS
AND ANY REQUIRED HOLDOWNS. ADDITIONAL INFORMATION
PER SECTION R602.10.8 AND FIGURES R602.10.6.5,
R602.10.1, R602.10.8(1) AND R602.10.8(2) OF THE 2015 IRC

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

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP I PER TABLE R405.1

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

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY <u>DR HORTON</u>
COMPLETED/REVISED ON 3/8/2/021. 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.

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

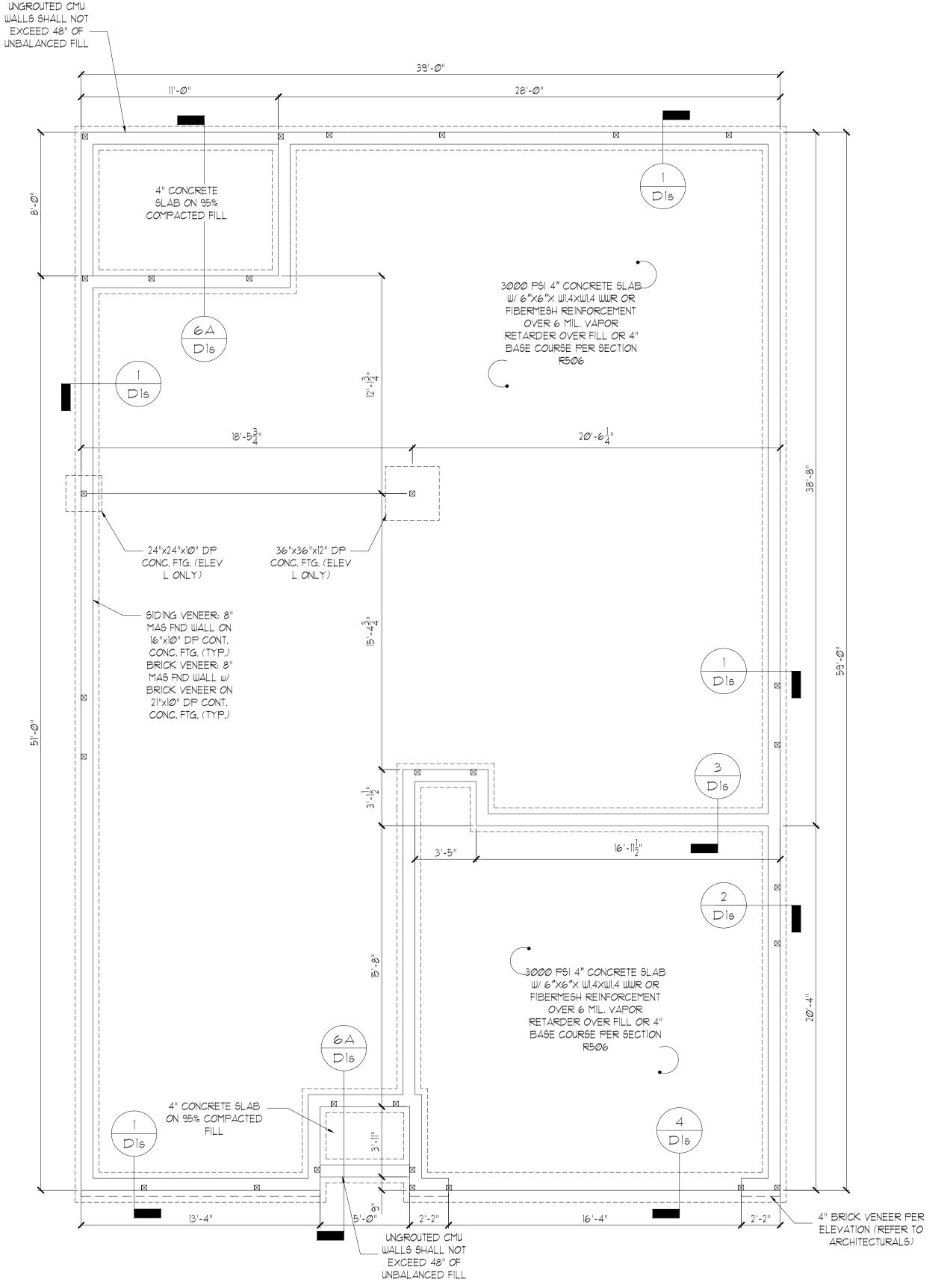
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STRUCTURAL.ANALYSIS BASED ON 2018 NCRC.

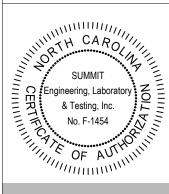
STEM WALL FOUNDATION PLAN

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



ALL ELEVATIONS







DR Horton, Inc.
8001 Arrowridge Blvc

item Wall Foundation

SEAL 046048

STRUCTURAL MEMBERS ONLY

DRAWING

DATE: 06/3/2021

SCALE: 22x34 |/4"=1'-0"
||x|1 |/8"=1'-0"

PROJECT • 528.10054

DRAWN BY: JV

CHECKED BY: BCP

ORIGINAL INFORMATION
PROJECT DATE
16381 12/13/17

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S1.0s

#### FOUNDATION NOTES:

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

  2. STRUCTURAL CONCRETE TO BE F<sub>c</sub> = 3000 PSI, PREPARED AND PLACED IN ACCORDANCE WITH ACI STANDARD 318.
- 3. FOOTINGS TO BE PLACED ON UNDISTURBED EARTH, BEARING A MINIMUM OF 12" BELOW ADJACENT FINISHED GRADE, OR AS OTHERWISE DIRECTED BY THE CODE ENFORCEMENT OFFICIAL.
- 4. 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 MASONRY.
- 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.
- 1. PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- 8. PROVIDE FOUNDATION WATERPROOFING, AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS.
- 9. PROVIDED PERIMETER INSULATION FOR ALL FOUNDATIONS PER 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE.
- 10. CORBEL FOUNDATION WALL AS REQUIRED TO ACCOMMODATE BRICK VENEERS.
- 11. CRAWL SPACE TO BE GRADED LEVEL, AND CLEARED OF ALL DEBRIS.

  8. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.1.6. MINIMUM 1/2" DIA. BOLTS SPACED AT 6'-0" ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE SECTION. MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- 9. ABBREVIATIONS:

DJ = DOUBLE JOIST
GT = GIRDER TRUSS
SC = STUD COLUMN
EE = EACH END
TJ = TRIPLE JOIST
CL = CENTER LINE

SJ = SINGLE JOIST
FT = FLOOR TRUSS
FT =

- IØ. ALL PIERS TO BE 16"x16" MASONRY AND ALL PILASTERS TO BE 8"x16" MASONRY, TYPICAL. (UNO)
- 11. WALL 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 & 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 SOIL OR 95% COMPACTED FILL, VERIFIED BY ENGINEER OR CODE OFFICIAL.

REFER TO BRACED WALL PLAN FOR PANEL LOCATIONS
AND ANY REQUIRED HOLDOWNS. ADDITIONAL INFORMATION
PER SECTION R602.10.8 AND FIGURES R602.10.6.5,
R602.10.7, R602.10.8(1) AND R602.10.8(2) OF THE 2015 IRC

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

NOTE: A 4" CRUSHED STONE BASE COURSE IS NOT REQUIRED WHEN SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP | PER TABLE R405.1

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

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

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

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY <u>DR HORTON</u>

COMPLETED/REVISED ON 3/8/2021. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, 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.

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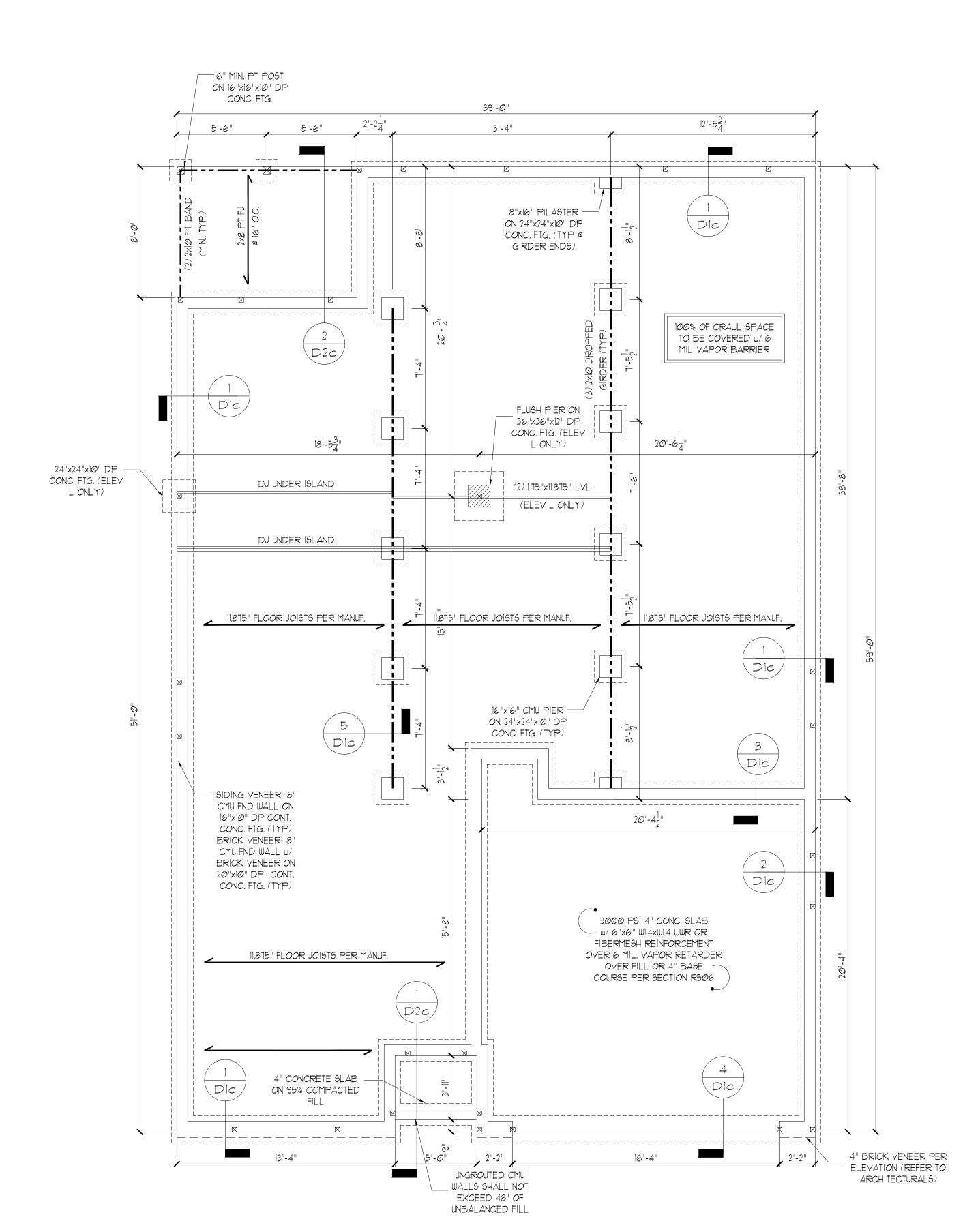
STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

CRAWL SPACE FOUNDATION PLAN

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

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

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



ALL ELEVATIONS







DR Horton, Inc. 8001 Arrowridge Blvd Charlesto NC 28213

wl Space Foundation

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STRUCTURAL MEMBERS ONLY

DRAWN BY: JV

ORIGINAL INFORMATION
PROJECT • DATE
16381 12/13/

CHECKED BY: BCP

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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### GENERAL STRUCTURAL NOTES:

- 1. CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
- 2. 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.
- 3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION.
- 4. PROPERTIES USED IN THE DESIGN ARE AS FOLLOWS:

EACH END UNLESS NOTED OTHERWISE.

- MICROLLAM (LVL):  $F_b = 2600 \text{ PSI}$ ,  $F_V = 285 \text{ PSI}$ ,  $E = 1.9 \times 10^6 \text{ PSI}$
- PARALLAM (PSL):  $F_b$  = 2900 PSI,  $F_V$  = 290 PSI, E = 1.25x10 $^6$  PSI 5. ALL WOOD MEMBERS SHALL BE #2 SYP/#2 SPF UNLESS NOTED ON PLAN. ALL STUD
- COLUMNS AND JOISTS SHALL BE #2 SYP/#2 SPF (UNO).

  6. ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 #2 SYP/#2 SPF STUD COLUMN AT
- 1. ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMUM COVER OF 3".
- 8. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.1.6. MINIMUM 1/2" DIA. BOLTS SPACED AT 6'-0" ON CENTER WITH A 1" MINIMUM EMBEDMENT INTO MASONRY OR CONCRETE. ANCHOR BOLTS SHALL BE 12" FROM THE END OF EACH PLATE SECTION. MINIMUM (2) ANCHOR BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE LOCATED IN THE CENTER THIRD OF THE PLATE.
- 9. CONTRACTOR TO PROVIDED LOOKOUTS WHEN CEILING JOISTS SPAN
- PERPENDICULAR TO RAFTERS.

  10. 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.
- II. ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 SYP #2/SPF #2, DROPPED. FOR NON-LOAD BEARING HEADERS EXCEEDING 8'-Ø" IN WIDTH AND/OR WITH MORE THAN 2'-Ø" OF CRIPPLE WALL ABOVE, SHALL BE (2) FLAT 2x4 SYP #2/SPF #2, DROPPED. (UNLESS NOTED OTHERWISE)

PL = POINT LOAD

12. ABBREVIATIONS:

DJ = DOUBLE JOIST
GT = GIRDER TRUSS
SC = STUD COLUMN
EE = EACH END
TJ = TRIPLE JOIST
OC = ON CENTER

#### NOTE

CL = CENTER LINE

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

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

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

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

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

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY <u>DR HORTON</u>

COMPLETED/REVISED ON 3/8/2021. IT IS THE RESPONSIBILITY OF THE CLIENT TO NOTIFY SUMMIT ENGINEERING, LABORATORY & TESTING, 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.

BWL 1-2 ---

BWL 1-2 ---

ROOF TRUSSES PER MANUF.

ROOF TRUSSES PER MANUF.

ELEV F B 2

BWL 1-B

ROOF TRUSSES

PER MANUF.

BWL 1-B

(2) 2X8 PT

DROPPED

HEADER

 $(2) 2 \times 8 P^{-}$ 

DROPPED

HEADER

ELEVATION AM

ELEVATION BENE

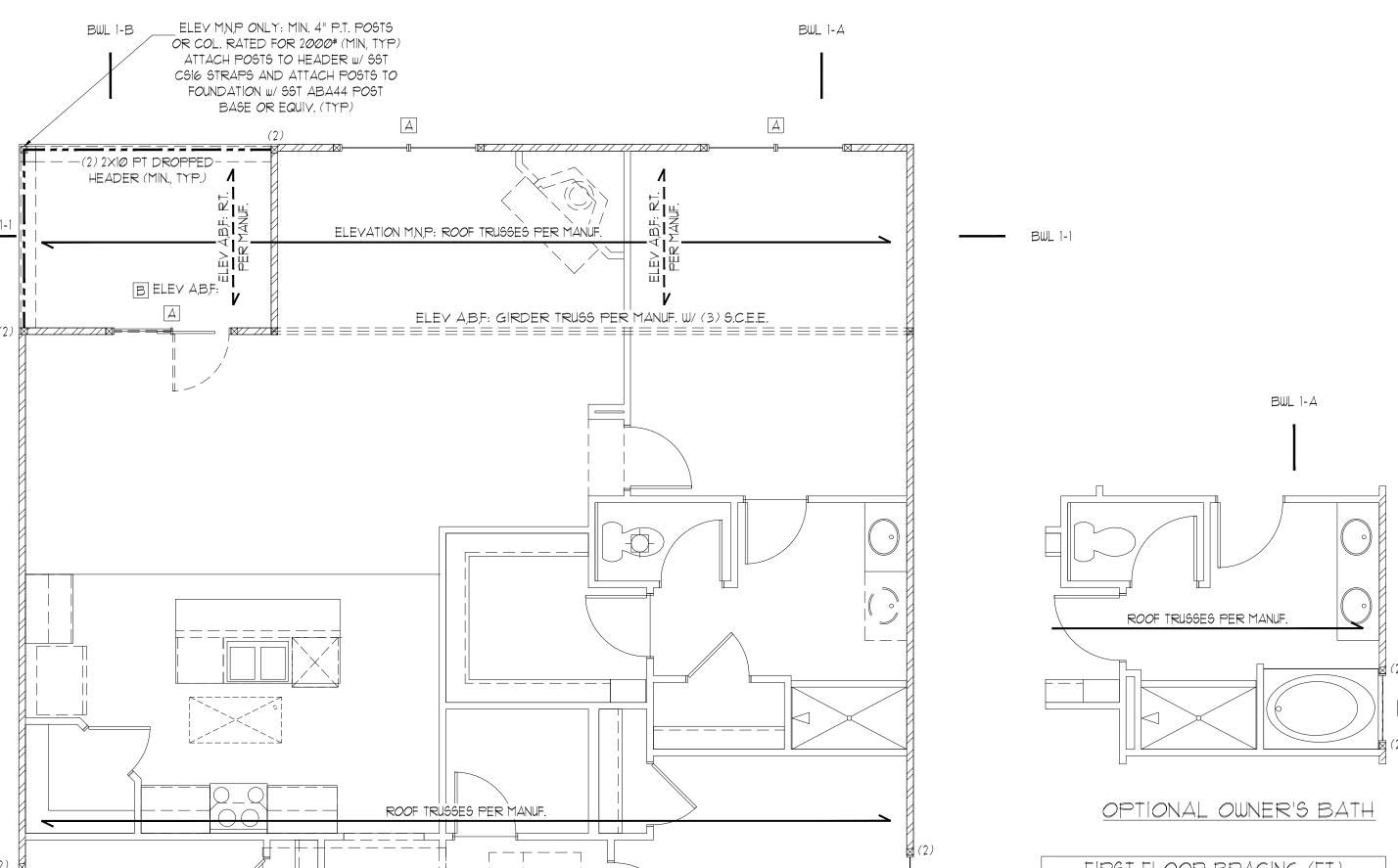
# STRUCTURAL MEMBERS ONLY

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

# FIRST FLOOR FRAMING PLAN

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



ROOF TRUSSES PER MANUF.

(2) 2X12 CONT HEADER W/ (2) S.C. EACH BEARING

FRAME PORTAL WALL PER DETAIL I/DIF

ROOF TRUSSES PER MANUF.

- | ELEV B,P: (2) 2×12 CONT HEADER W/ (2) S.C. EACH BEARING  $^{\perp}$ 

ELEV FN: (2) 1.75"XII.875" LVL/LSL CONT.

HEADER W/ (2) S.C. EACH BEARING

FRAME PORTAL WALL PER DETAIL I/DIF

GIRDER TRUSS PER MANUF. (CONT.)

BWL 1-A

BWL 1-A

FIRST FLOOR BRACING (FT)				
CONTIN	CONTINUOUS SHEATHING METHOD			
	REQUIRED	PROVIDED		
BWL 1-1	9.5	2 <i>0.0</i>		
BWL 1-2	9.5	14.3		
BWL 1-A	6.1	53.1		
BWL 1-B	6.1	48.0		

FIRST FLOOR BRACING (FT)

CONTINUOUS SHEATHING METHOD

REQUIRED

9.5

6.1

BWL 1-1

BWL 1-2

BWL 1-A

BWL 1-B

PROVIDED

2*0.*0

14.3

56.1

48.Ø

BWL 1-2

HEADER SCHEDULE			
TAG	SIZE	JACKS (EACH END	
А	(2) 2x6	(1)	
В	(2) 2x8	(2)	
С	(2) 2x1Ø	(2)	
D	(2) 2×12	(2)	
E	(2) 9-1/4" LSL/LVL	(3)	
F	(3) 2x6	(1)	
G	(3) 2x8	(2)	
Н	(3) 2xlØ	(2)	
	(3) 2x12	(2)	
I .			

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

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

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

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

#### WALL STUD SCHEDULE

| 15T & 2ND FLOOR LOAD BEARING STUDS: 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.

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

APPLY TO PORTAL FRAMED OPENINGS

### BRACED WALL NOTES:

- 1) WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED PER SECTION R602.10 OF THE 2018 NC RESIDENTIAL CODE.

  1. 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 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.
- MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.10.5.
   THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
- 1. 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.
- 8. FLOORS SHALL NOT BE CANTILEVERED MORE THAN 24" BEYOND THE FOUNDATION OR BEARING WALL BELOW WITHOUT ADDITIONAL ENGINEERING CALCULATIONS.
- 9. A BRACED WALL PANEL SHALL BE LOCATED WITHIN 10 FEET OF EACH END OF A BRACED WALL LINE.
- 10. 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 LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE R602.10.9 OF THE 2015 IRC.
- 12. BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.8
- 13. BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.8.2 AND FIGURES R602.10.8(1)4(2)4(3).
- 14. CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10.11
   15. PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE
- R602.10.6.4 (UNO)
  16. ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS.
  17. ABBREVIATIONS:

GB = GYPSUM BOARD WSP = WOOD STRUCTURAL PANEL
CS-XXX = CONT. SHEATHED ENG = ENGINEERED SOLUTION
PF = PORTAL FRAME PF-ENG = ENG. PORTAL FRAME

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:NT: Horton, Inc. I Arrowridge BIvd. Lotte, NC 28213

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SEAL 046048

SEAL 046048

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STRUCTURAL MEMBERS ONLY

RAWING

DATE: 06/3/2021

SCALE: 22x34 |/4"=1'-0"
||x|1 |/8"=1'-0"

PROJECT • 528.T0054

DRAWN BY: JV

ORIGINAL INFORMATION
PROJECT \* DATE
16:381 12/13/11

CHECKED BY: BCP

REFER TO COVER SHEET FOR A
COMPLETE LIST OF REVISIONS

\$4EET \$3.0

#### GENERAL STRUCTURAL NOTES:

- 1. CONSTRUCTION SHALL CONFORM TO 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE WITH ALL LOCAL AMENDMENTS.
- 2. 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.
- 3. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY BRACING REQUIRED TO RESIST ALL FORCES ENCOUNTERED DURING ERECTION.
- 4. PROPERTIES USED IN THE DESIGN ARE AS FOLLOWS: MICROLLAM (LVL):  $F_{b} = 26000 \text{ PSI}$ ,  $F_{V} = 285 \text{ PSI}$ ,  $E = 1.9 \times 10^{6} \text{ PSI}$ PARALLAM (PSL):  $F_b = 2900 \text{ PSI}$ ,  $F_V = 290 \text{ PSI}$ ,  $E = 1.25 \times 10^6 \text{ PSI}$
- 5. ALL WOOD MEMBERS SHALL BE #2 SYP/#2 SPF UNLESS NOTED ON PLAN. ALL STUD COLUMNS AND JOISTS SHALL BE #2 SYP/#2 SPF (UNO).
- 6. ALL BEAMS SHALL BE SUPPORTED WITH A (2) 2x4 #2 SYP STUD COLUMN AT EACH END UNLESS NOTED OTHERWISE.
- 7. ALL REINFORCING STEEL SHALL BE GRADE 60 BARS CONFORMING TO ASTM A615 AND SHALL HAVE A MINIMUM COVER OF 3".
- 8. FOUNDATION ANCHORAGE SHALL BE CONSTRUCTED PER THE 2018 NORTH CAROLINA RESIDENTIAL CODE SECTION R403.1.6. MINIMUM 1/2" DIA. BOLTS SPACED AT 6'-0" ON CENTER WITH A 7" 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. 10. 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 I/D3f. MIN. EDGE DISTANCE SHALL BE 2" AND (2) BOLTS SHALL BE LOCATED MINIMUM 6" FROM EACH END OF THE BEAM.
- II. ALL NON-LOAD BEARING HEADERS SHALL BE (1) FLAT 2x4 SYP #2/SPF #2, DROPPED. FOR NON-LOAD BEARING HEADERS EXCEEDING 8'-0" IN WIDTH AND/OR WITH MORE THAN 2'-0" OF CRIPPLE WALL ABOVE, SHALL BE (2) FLAT 2×4 SYP #2/SPF #2, DROPPED. (UNLESS NOTED OTHERWISE)
- 12. 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

### 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 R602.10.8 AND FIGURES R602.10.6.5, R602.10.1, R602,10,8(1) AND R602,10,8(2) OF THE 2015 IRC

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

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

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(ENG-IS)

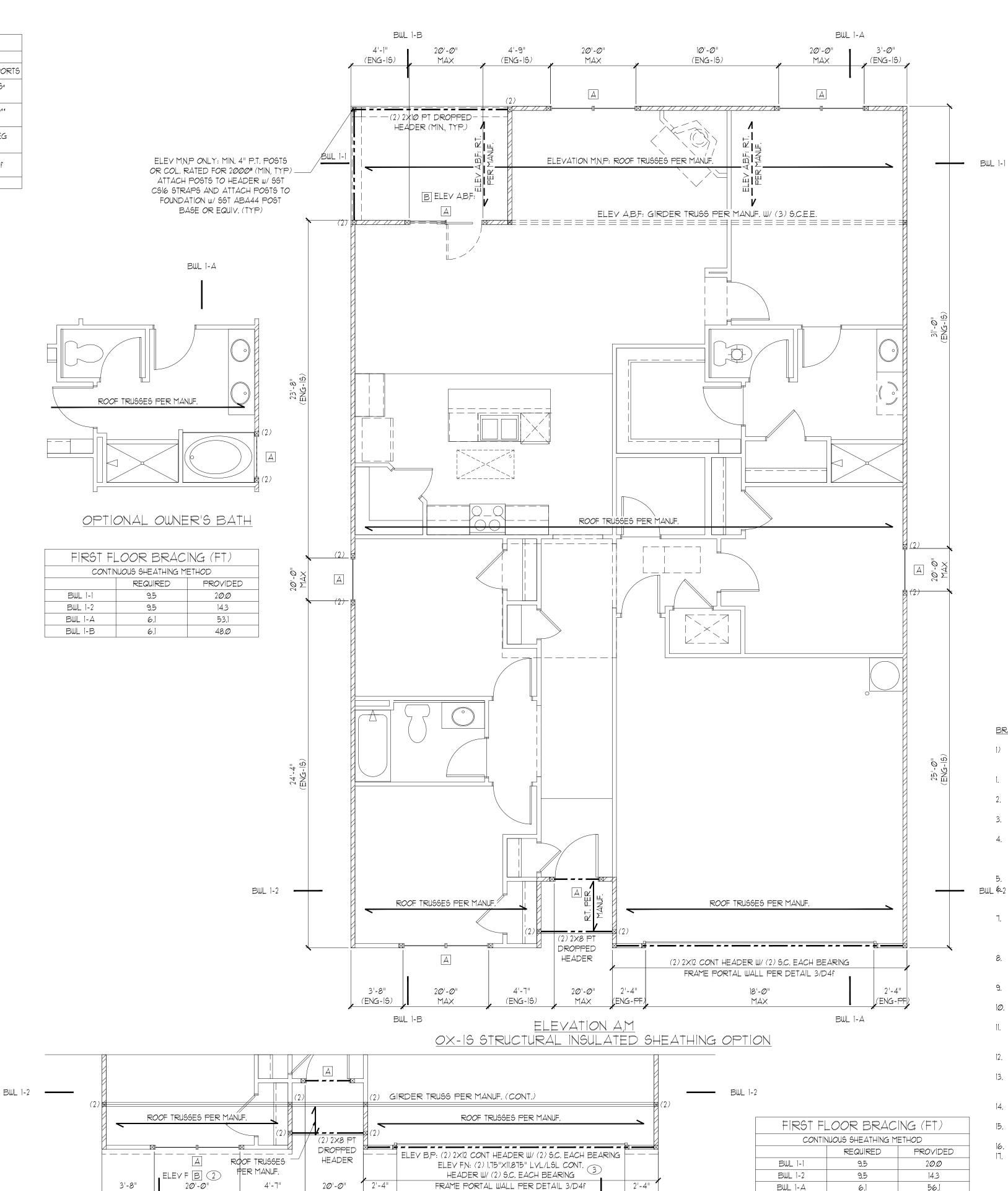
MAX

ELEVATION BENE

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"



(ENG-PF)

BWL 1-A

BWL 1-B

48.Ø



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.

	NTEL SCHEDU	
TAG	SIZE	OPENING SIZE
	L3x3x1/4"	LESS THAN 6'-0"
	L5x3x1/4"	6'-0" †0 10'-0"
	L5x3-1/2"x5/16"	GREATER THAN 10'-0"
	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

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

#### WALL STUD SCHEDULE

IST & 2ND FLOOR LOAD BEARING STUDS: 2x4 STUDS @ 16" O.C. OR 2x6 STUDS @ 24" O.C. 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): 2×4 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 RE	EQUIREMENTS		
OPENING WIDTH	KINGS (EACH END)		
LESS THAN 3'-Ø"	(1)		
3'-Ø TO 4'-Ø"	(2)		
4'-0" TO 8'-0"	(3)		
8'-0" TO 12'-0"	(5)		
12'-0" †0 16'-0"	(6)		
KING STUD REQUIREM	KING STUD REQUIREMENTS ABOVE DO NO		

APPLY TO PORTAL FRAMED OPENINGS

# BRACED WALL NOTES:

- 1) WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10 FROM THE 2015 INTERNATIONAL RESIDENTIAL CODE AS ALLOWED
- PER SECTION R602.10 OF THE 2018 NC RESIDENTIAL CODE. 1. 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
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- 5. MINIMUM PANEL LENGTH SHALL BE PER TABLE R602.10.5. BWL 6-2 THE INTERIOR SIDE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED CONTINUOUSLY WITH MINIMUM 1/2" GYPSUM BOARD (UNO).
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- 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. 11. MASONRY OR CONCRETE STEM WALLS WITH A LENGTH OF 48" OR

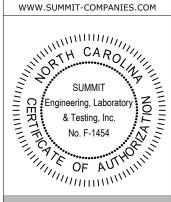
LESS SUPPORTING A BRACED WALL PANEL SHALL BE DESIGNED IN

- ACCORDANCE WITH FIGURE R602.10.9 OF THE 2015 IRC. 12. BRACED WALL PANEL CONNECTIONS TO FLOOR/CEILING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.8
- 13. BRACED WALL PANEL CONNECTIONS TO ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION R602.10.8.2 AND
- FIGURES R602.10.8(1)\$(2)\$(3).
- 14. CRIPPLE WALLS AND WALK OUT BASEMENT WALLS SHALL BE DESIGNED IN ACCORDANCE WITH SECTION R602.10.11 15. PORTAL WALLS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE
- R602.10.6.4 (UNO) 16. ON SCHEMATIC, SHADED WALLS INDICATE BRACED WALL PANELS. 17. ABBREVIATIONS:

GB = GYPSUM BOARD WSP = WOOD STRUCTURAL PANEL CS-XXX = CONT. SHEATHED ENG = ENGINEERED SOLUTION PF = PORTAL FRAME PF-ENG = ENG. PORTAL FRAME SUMMIT 3070 HAMMOND BUSINESS PLACE, SUITE 171 RALEIGH, NC 27603

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FAX: 919.380.9993





046048 STRUCTURAL MEMBERS ONLY

> DATE: 06/3/2021 PROJECT \*: 528.T0054 DRAWN BY: JY

ORIGINAL INFORMATION

CHECKED BY: BCP

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

ROOF TRUSSES PER MANUF. ROOF SUPPORT ROOF TRUSSE'S PER MANUF. ROOF TRUSSE'S PER MANUF.

GIRDER TRUSS PER MANUF.

ROOF SUPPORT

ELEVATION A

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

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

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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

ROOF FRAMING PLAN

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

PLACE, SUITE 171 RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993





STRUCTURAL MEMBERS ONLY

DATE: 06/3/2021 9CALE: 22x34 1/4"=1'-0" 1|x17 1/8"=1'-0" PROJECT \*: 528.T0054 DRAWN BY: JV

CHECKED BY: BCP ORIGINAL INFORMATION
PROJECT • DATE
16381 12/13/17

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

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ROOF TRUSSES PER MANUE.

ROOF TRUSSES PER MANUF.

GIRDER TRUSS PER MANUF.

ROOF TRUSSES

PER MANUF.

ROOF TRUSSE'S PER MANUF.

ELEVATION B.F. R.S. = ROOF SUPPORT

ROOF SUPPORT

GIRDER TRUSS PER MANUF.

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ROOF FRAMING PLAN

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

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WWW.SUMMIT-COMPANIES.COM





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

ali - RH

SEAL 046048

STRUCTURAL MEMBERS ONLY

PROJECT \* 528.10054

DRAIIN BY: JV

CHECKED BY: BCP

ORIGINAL INFORMATION
PROJECT \* DATE
16387 12/13/17

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S5.1

THESE PLANS ARE DESIGNED IN ACCORDANCE WITH ARCHITECTURAL PLANS PROVIDED BY <u>DR HORTON</u>

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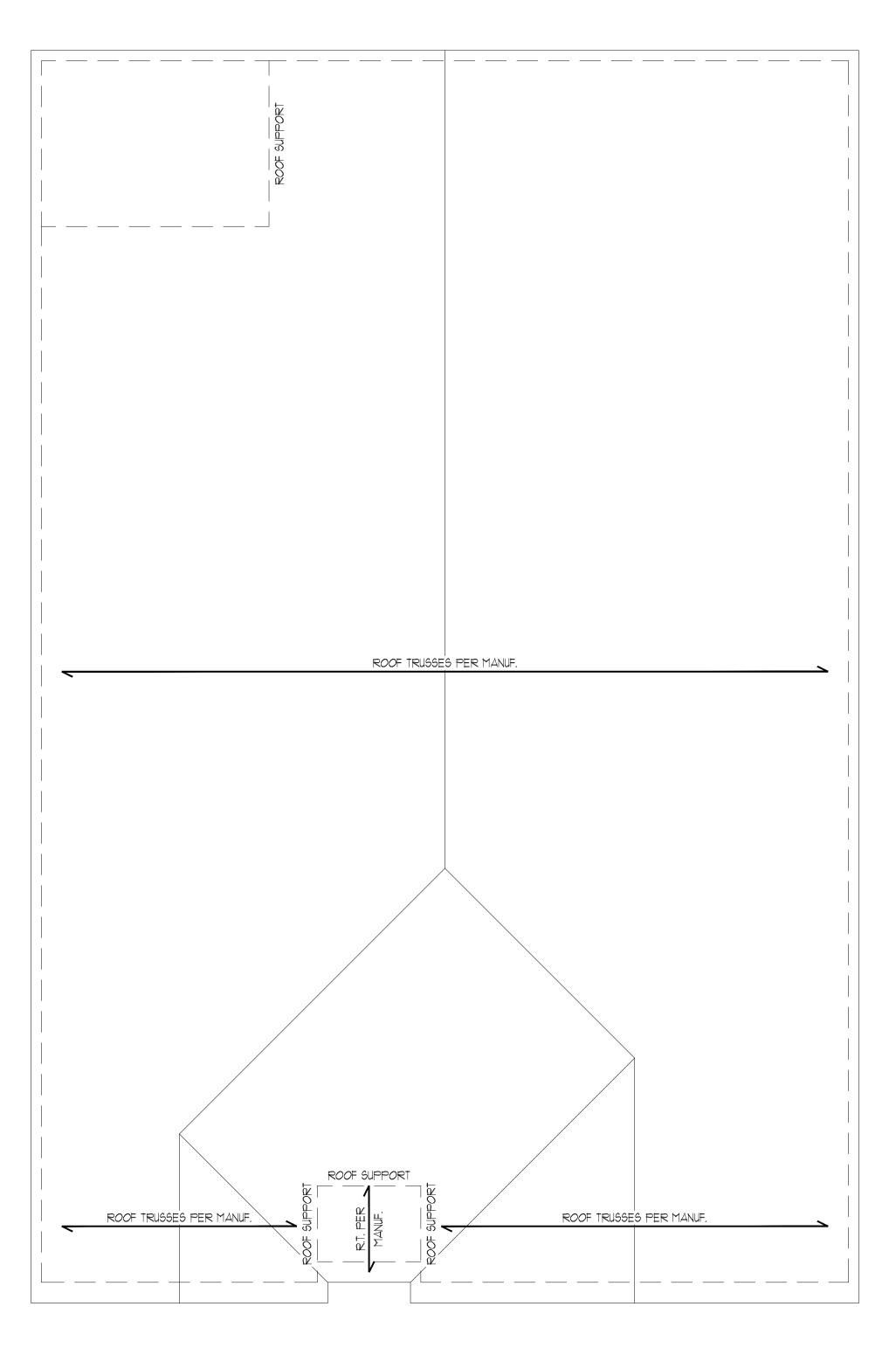
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STRUCTURAL ANALYSIS BASED ON 2018 NCRC.

800F FRAMING PLAN

5CALE: 1/4"=1'-0" ON 22"x34" OR 1/8"=1'-0" ON 11"x17"



ELEVATION M

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8001 Arrowridge Blvd.
Charlotte NC 28313

ACOECI:

ali - RH

COECI:

SEAL 046048

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DRAWN BY: JV CHECKED BY: BCP

ORIGINAL INFORMATION
PROJECT • DATE
16387 12/13/17

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S5.3

DATE 12/13/11 SHEET FOR A F REVISIONS

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

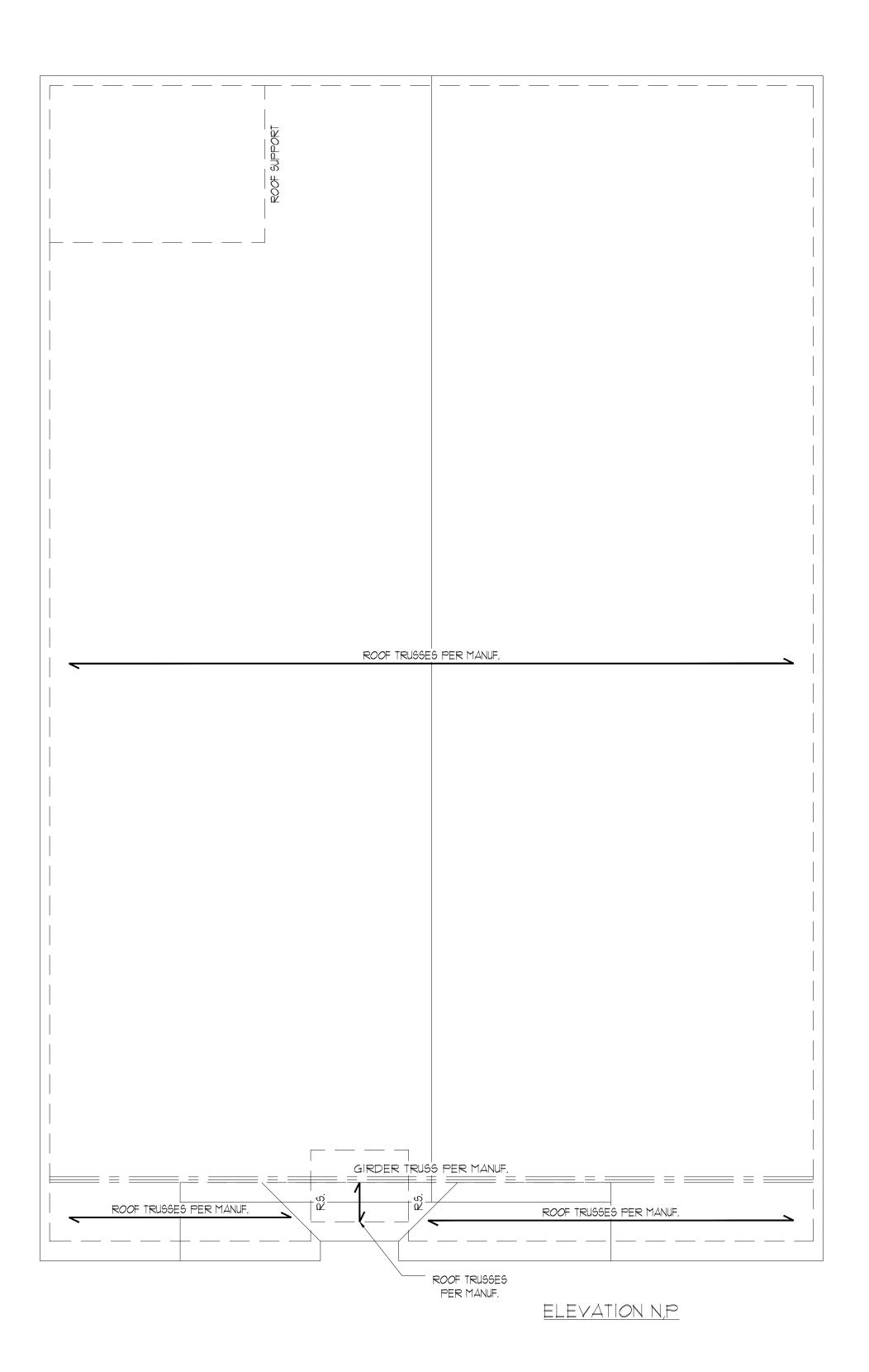
NOTE: ROOF TRUSSES SHALL BE SPACE TO SUPPORT FALSE FRAMED DORMER WALLS (TYP, UNO)

# 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.

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



3070 HAMMOND BUSINESS PLACE, SUITE 171 RALEIGH, NC 27603 OFFICE: 919.380.9991 FAX: 919.380.9993 WWW.SUMMIT-COMPANIES.COM





STRUCTURAL MEMBERS ONLY

DATE: 06/3/2021 9CALE: 22x34 1/4"=1'-0" 1|x17 1/8"=1'-0" PROJECT \*: 528.TØØ54

DRAWN BY: JV CHECKED BY: BCP

ORIGINAL INFORMATION

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

S5.4

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

Applicable Building Codes:

• 2018 North Carolina Residential Building Code with All Local Amendments

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

an ∟	oaas:		
٦.	Roof	Live Loads	
	1.1.	Conventional 2x	2Ø PSF
	1.2.	Truss	20 PSF
		12.1. Attic Truss	60 PSI
2.		Dead Loads	
	2.1.	Conventional 2x	10 PSF
	22.	Truse	20 PSF
3.	Snow		15 PSF
	3.1.	Importance Factor	IØ
4.	Floor	Live Loads	
	4.1.	Typ. Dwelling	40 PSF
		Sleeping Areas	
	4.3.	Decks	40 PSF
	4.4.	Passenger Garage	50 PSF
5.	Floor	Dead Loads	
	5.1.	Conventional 2x	10 PSF
	5.2.	I-Joist	15 PSF
	5.3.	Floor Truss	15 PSF
6.	Ultima	te Wind Speed (3 sec. qust)	PER PI

Importance Factor 6.3. Wind Base Shear 6.3.1. Vx =

61. Exposure ....

6.32. Vy = T. 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,-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.Ø	19.2,-200	19.9,-20.7	20.4,-21.3	
ZONE 5	182,-24.0	19.2,-25.2	19.9,-26.1	20.4,-26.9	

... PER PLAN

8.l. Site Class 82. Design Category ... 83. Importance Factor Seismic Use Group ...

8.5. Spectral Response Acceleration 8.5.1. Sms = %g 8.5.2. Sml = %g 8.6. Seismic Base Shear

8.6.1. Vx =

8.7. Basic Structural System (check one) ⊠ Bearing Wall

□ Building Frame

□ Moment Frame

□ Dual w/ Special Moment Frame

☐ Dual w/ Intermediate R/C or Special Steel
☐ Inverted Pendulum 8.8. Arch/Mech Components Anchored

8.9. Lateral Design Control: Seismic 

9. Assumed Soil Bearing Capacity ...... Illind 🖂



#### STRUCTURAL PLANS PREPARED FOR

#### STANDARD DETAILS

PROJECT ADDRESS:

DR Horton Carolinas Division

ARCHITECT/DESIGNER

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

#### PLAN ABBREVIATIONS:

AB	ANCHOR BOLT	PT	PRESSURE TREATED
AFF	ABOVE FINISHED FLOOR	RS	ROOF SUPPORT
CJ	CEILING JOIST	9C	STUD COLUMN
CLR	CLEAR	SJ	SINGLE JOIST
DJ	DOUBLE JOIST	SPF	SPRUCE PINE FIR
DSP	DOUBLE STUD POCKET	SST	SIMPSON STRONG-TIE
EE	EACH END	SYP	SOUTHERN YELLOW PINE
ΕW	EACH WAY	TJ	TRIPLE JOIST
NTS	NOT TO SCALE	TSP	TRIPLE STUD POCKET
$\infty$	ON CENTER	TYP	TYPICAL
P9F	POUNDS PER SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
P6I	POUNDS PER SQUARE INCH	WWF	WELDED WIRE FABRIC

Roof truss and floor joist layouts, and their corresponding loading details, were not provided to SUMMIT Engineering, Laboratory 4 Testing, P.C. (SUMMIT) prior to the initial design. Therefore, truss and joist directions were assumed based on the information provided by <u>DR Horton. Inc.</u> Subsequent plan revisions based on roof truss and floor joist layouts shall be noted in the revision list, indicating the date the layouts were provided. Should any discrepancies become apparent, the contractor shall notify SUPHIT immediately.

#### SHEET LIST:

REVISION LIST:

Revision

No.

Date

51117

3 2.15.18

4 2.28.18

5 12.19.18

6 2.19.19

9 3220

3.6.19

Project

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

#### DR HORTON PROJECT SIGN-OFF:

Manager	Signature
Operations	
Operations System	
Operations Product Development	

# SÜMMIT





# PROJECT: Standard Details COVERSHE

TH CARO (SEAL 048623

STRUCTURAL MEMBERS ONL'

DATE: 3/2/20 9CALE: 22x84 1/4"+1"-6" bd1 1/8"+1"-6" PROJECT 1 P-1961-16 DRAIN BY: LAG CHECKED BY: WAJ

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

CS1

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 SUMMI Engineering, Laboratory & Testing, P.C. (SUMMIT) or the SER. For the purposes of these construction documents the SER and SUMMIT
- shall be considered the same entity.

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

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

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

  Verification of assumed field conditions is not the responsibility of the SER. The contractor shall verify the field conditions for
- accuracy and report any discrepancies to SUPMIT 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

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

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

#### STRUCTURAL STEEL:

- Structural steel shall be fabricated and erected in accordance with the American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges" and the manual of Steel Construction "Load Resistance Factor Design" Structural steel shall receive one coat of shop applied
- rust-inhibitive paint.

  3. All steel shall have a minimum yield stress (F<sub>n</sub>) of 36 ksi unless
- atherwise nated
- Welding shall conform to the latest edition of the American Welding Society's Structural Welding Code AUS D.1. Electrodes for shop and field welding shall be class E10XX. All welding shall be performed by a certified welder per the above

- Nexts Lis.

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

  Concrete shall be proportioned, mixed, and placed in
- accordance with the latest editions of ACI 318: "Building Code Requirements for Reinforced Concrete" and ACI 301: "Specifications for Structural Concrete for Buildings".
- Air entrained concrete must be used for all structural elements exposed to freeze/thaw cycles and deicing chemicals. Air entrainment amounts (in percent) shall be within -1% to +2% of target values as follows:
  - 3.1. Footings: 5% 3.2. Exterior Slabs: 5%
- 4. No admixtures shall be added to any structural concrete without written permission of the SER.

- Concrete slabs-on-grade shall be constructed in accordance 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 pcl 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-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

  - 9. 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:

  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
- Filtermeet reinforcing to be 100% virgin polypropylene fibers containing no reprocessed olefin materials and specifically manufactured for use as concrete secondary reinforcement.
- Application of fibermesh per cubic yard of concrete shall equal a minimum of 01% by volume (15 pounds per cubic yard) Fibermesh shall comply with ASTM CIII6, any local building code requirements, and shall meet or exceed the current industry
- standard. Steel reinforcing bars shall be new billet steel conforming to ASTM A615, grade 60.

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

  Horizontal footing and wall reinforcement shall be continuous and shall have 30° bends, or corner bars with the same size/spacing as the horizontal reinforcement with a class B
- Lap reinforcement as required, a minimum of 40 bar diameters for tension or compression unless otherwise noted. Splices in masonry shall be a minimum of 48 bar diameters.

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

  10. Where reinforcing steel is required vertically, dowels shall be provided unless otherwise noted. WOOD FRAMING:
- Solid sawn wood framing members shall conform to the specifications listed in the latest edition of the "National Design Specification for Wood Construction" (NDS), Unless otherwise noted, all wood framing members are designed to be Spruce-Yellow-Pine (SYP) 12.

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

  - 2.2. F<sub>b</sub> = 2600 psi 2.3. F<sub>v</sub> = 285 psi
- 2.4.Fc = 100 psi Wood in contact with concrete, masonry, or earth shall be pressure treated in accordance with AWPA standard C-I5. All other moisture exposed wood shall be treated in accordance with AWPA standard C-2
- with AUPA standard C-2
  Nalls shall be common wire nails unless otherwise noted.
  Lag screws shall conform to ANSI/ASME standard B182,1-1981.
  Lead holes for lag screws shall be in accordance with NDS
- specifications. All beams shall have full bearing on supporting framing members
- unless otherwise noted.

  Exterior and load bearing stud walls are to be 2x4 SYP 12 e 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 studs forming a column shall be attached with one lod nail 6 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 6 2" OC
- Ø. Flitch beams, 4-ply beams and 3-ply side loaded beams shall be bolted together with (2) rows of 1/2" diameter through bolts staggered a 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:

20 IRUSES:
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

idded 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 2018 NCRC

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

Corrected dimensions at perimeter footings

Revised stem wall insulation note

sheathing on wall sections.

Added tall turndown detail

options with basement. Revised deck options with

- Ine wood trusses shall be designed for all required loadings as specified in the local building code, the 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 HYAC 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 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.
- 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.

- IDOD STRUCTURAL PANELS:

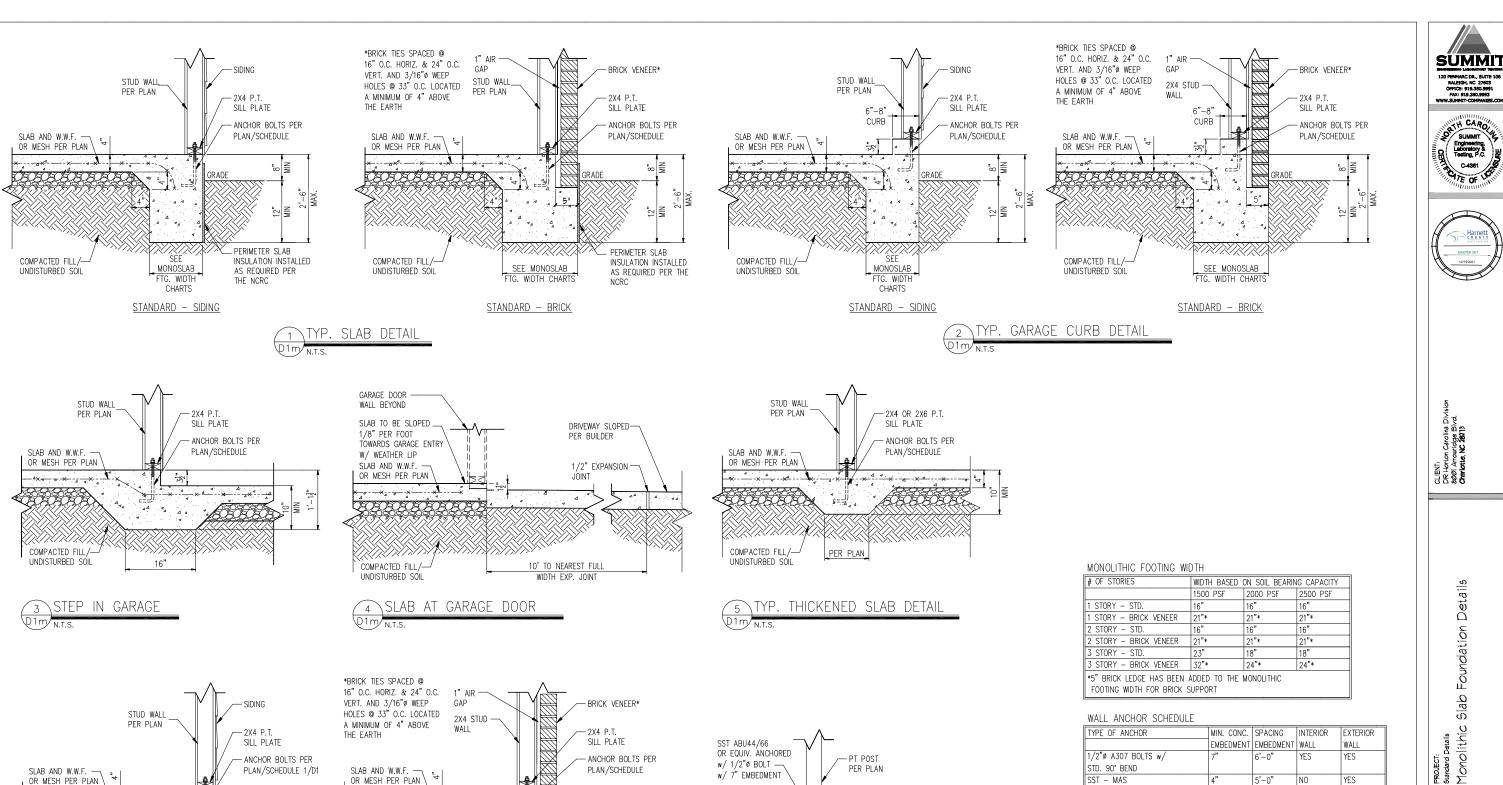
  I. Fabrication and placement of structural wood sheathing shall be in accordance with the APA Design/Construction Guide "Residential and Commercial," and all other applicable APA
- All structurally required wood sheathing shall bear the mark of

- 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 or or, at panel eages and at 12°07c in panel tield unless otherwise noted on the plans, Sheathing shall be applied with the long direction perpendicular to framing, Sheathing shall have a span rating consistent with the framing spacing. Use
- have a span rating consistent with the framing spacing, Use suitable edge support by use of plywood clips or lumber blocking unless otherwise noted. Panel and 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 hall 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 to use of 116 objectory. support by use of 146 plywood or lumber blocking unless otherwise noted. Panel and joints shall occur over framing. Apply building paper over the sheathing as required by the
- state Building Code.
  Sheathing shall have a 1/8" gap at panel ends and edges as recommended in accordance with the APA.

- STRUCTURAL FIBERBOARD PANELS:

  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. 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 recommended in accordance with the AFA.



PATIO SLAB -

SPOT FOOTING

OR CONTINUOUS

LUG FOOTING PER PLAN

PER PLAN

COVERED PATIO DETAIL

- COMPACTED FILL/

UNDISTURBED SÓIL

PER PLAN

∠PATIO SLAB4 🔩

SEE MONOSLAB

FTG. WIDTH CHARTS

STANDARD - BRICK

PERIMETER SLAB

AS REQUIRED PER

THE NCRC

INSULATION INSTALLED

∠PATIO SLAB

SEE

MONOSI AF

FTG WIDTH

CHARTS

STANDARD - SIDING

COMPACTED FILL/-

UNDISTURBED SÓIL

- PERIMETER SLAB

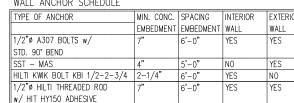
AS REQUIRED PER

THE NCRC

INSULATION INSTALLED

COMPACTED FILL/-

PATIO SLAB DETAIL



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.
- 2. 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

SUMMIT LE

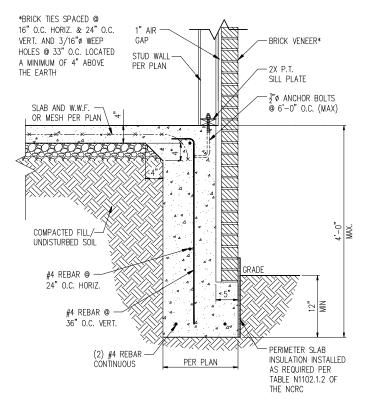
Engineering, Laboratory & Testing, P.C.

C-4381

STRUCTURAL MEMBERS ONL DATE: 3/2/20 8CALE: 27x84 1/4"+1"-**8"** 1x6" 1/8"+1"-**8"** PROJECT & P-19Ø1-IØR DRAIN BY: LAG CHECKED SY: WAJ

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

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- NOTES:

  1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
- PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
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- 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

SÜMMIT





CLIENT: DR Horton Carolina Divis 8001 Arrowridge Blvd. **Charlotte, NC 28213** 

Details Foundation Slab PROJECT: Standard Details MONO[Ithic &



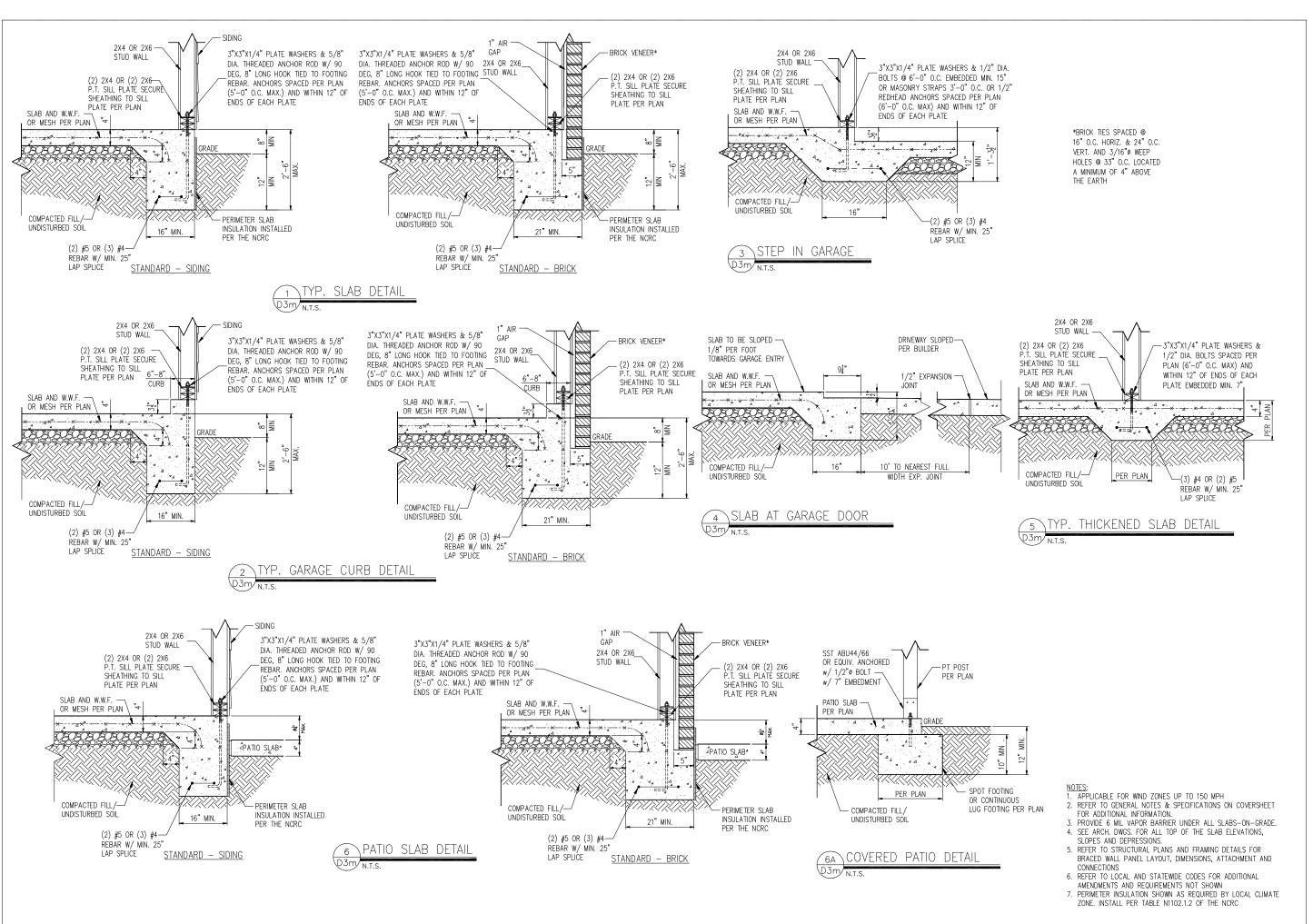
DATE: 3/2/20 9CALE: 22x34 1/4"+1"-69" lbd1 1/8"+1"-69" PROJECT & P-1961-16

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REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D2m



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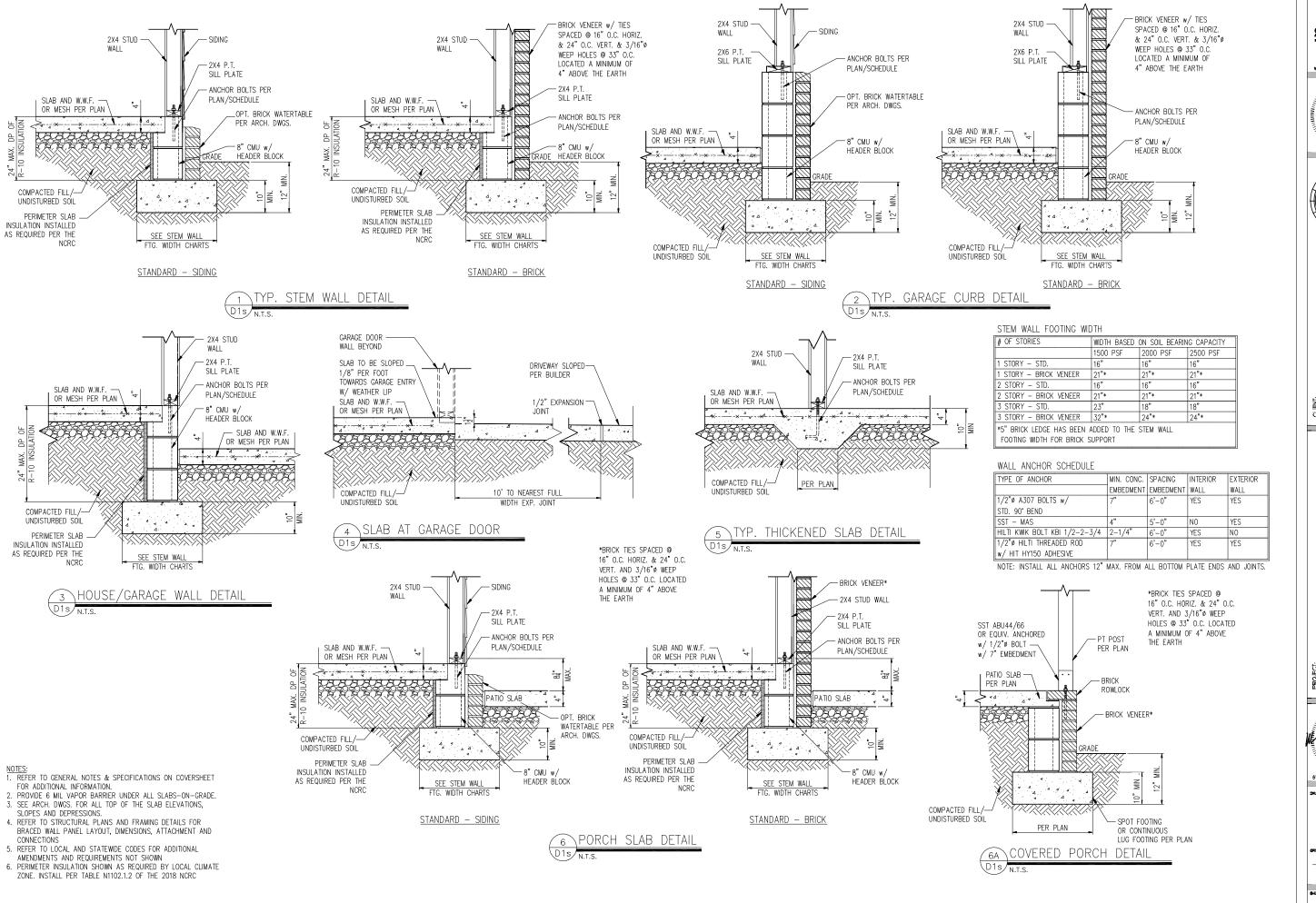
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DATE: 3/2/20 8CALE: 27x84 1/4"+1"-**8"** 1x6" 1/8"+1"-**8"** PROJECT & P-1901-10 DRAIN BY: LAG HECKED BY: WAJ

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D3m









DR Horton Carolina Division 8001 Arrowridge Blvd. Charlotte, NC 28213

FROJECT: Standard Details Stem Wall Foundation Details

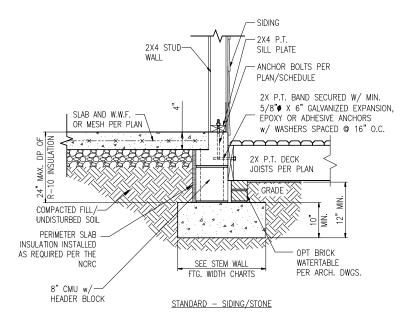


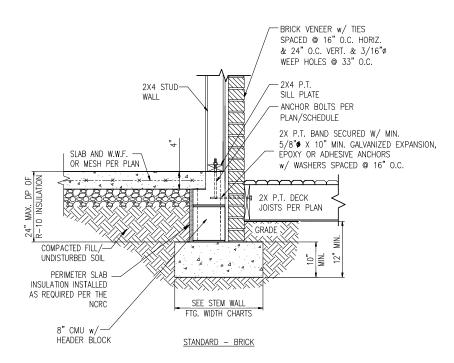
STRUCTURAL MEMBERS C DRAWNS DATE: 30/39 SCALE: 2004 1/4\*+1-69 PROJECT 1-P-807-16R DRAWN BY: LAG CHECKED BY: MAJ

PROJECT DATE

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D16





DECK ATTACHMENT DETAIL - STEM WALL

- NOTES:

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

SÜMMIT





Details Foundation Details Wall PROJECT: Standard I Stem



DATE: 3/2/20 8CALE: 27x84 1/4"+1"-**8"** 1x61 1/8"+1"-**8"** 

PROJECT & P-19Ø1-1Ø DRAIN BY: LAG CHECKED SY: WAJ

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D25

SÜMMIT





CLIENT: DR Hort 8001 Ar

Ę High g Details Foundation Details Wall NECT: PROJE Stand Str

USEAL 043623 STRUCTURAL MEMBERS ONL

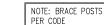
DATE: 3/2/20 9CALE: 22x84 1/4\*+1\*-6\* bd1 1/8\*+1\*-6\* PROJECT 1 P-1901-10

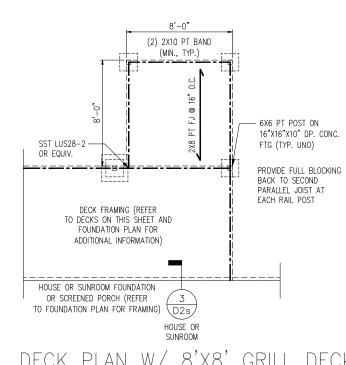
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ZONE, INSTALL PER TABLE N1102.1.2 OF THE NCRC

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

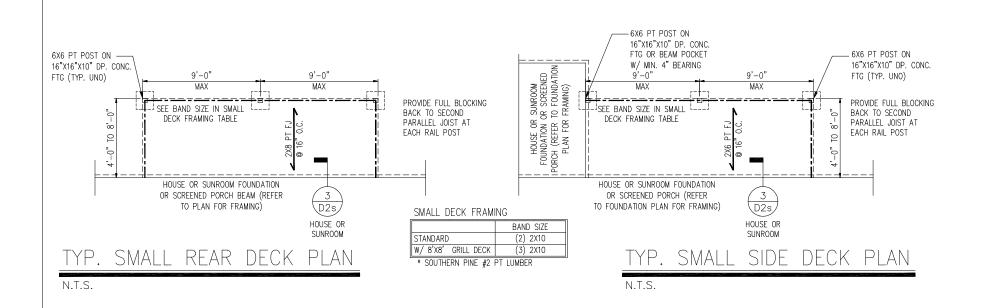
D36





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

N.T.S.



SEE INTERMEDIATE

MAX

(2) 2X12 PT BAND

(MIN., TYP.)

HOUSE OR SUNROOM FOUNDATION

OR SCREENED PORCH (REFER

TO FOUNDATION PLAN FOR FRAMING)

TYP. LARGE REAR DECK PLAN

MAX

SEE BAND SIZE IN

DECK FRAMING TABLE

HOUSE OR SUNROOM FOUNDATION

OR SCREENED PORCH BEAM (REFER

TO PLAN FOR FRAMING)

TYP. REAR DECK PLAN

6X6 PT POST ON -

16"X16"X10" DP. CONC.

FTG (TYP. UNO)

N.T.S.

6X6 PT POST ON -

FTG (TYP. UNO)

N.T.S.

16"X16"X10" DP. CONC.

2

FOOTING IN LARGE DECK FRAMING TABLE

MAX

D2s

HOUSE OR

SUNROOM

SEE INTERMEDIATE

9'-0"

MAX

D2s

HOUSE OR

FOOTING IN DECK

FRAMING TABLE

PROVIDE FULL BLOCKING

LARGE DECK FRAMING

W/ 8'X8' GRILL DECK

PROVIDE FULL BLOCKING

BACK TO SECOND PARALLEL JOIST AT

EACH RAIL POST

DECK FRAMING

W/ 8'X8' GRILL DECK

\* SOUTHERN PINE #2 PT LUMBER

STANDARD

BACK TO SECOND

FACH RAIL POST

PARALLEL JOIST AT

;<u>-</u>t‡=-,;

SEE INTERMEDIATE

MAX

D2s

HOUSE OR

SUNROOM

-SEE INTERMEDIATE

FOOTING IN DECK

9'-0"

D2s

HOUSE OR

SIDE DECK PLAN

FRAMING TABLE

TYP. LARGE SIDE DECK PLAN

MAX

28 5 E

INTERMIEDIATE FOOTING

16"x16"x10"

24"x24"x10"

6X6 PT POST ON-

16"X16"X10"' DP. CONC.

FTG OR BEAM POCKET

BAND SIZE\*

(2) 2X10

(3) 2X10

INTERMIEDIATE FOOTING

16"x16"x10"

24"x24"x10"

W/ MIN. 4" BEARING

DECK FRAMING TABLE

HOUSE OR SUNROOM FOUNDATION

OR SCREENED PORCH (REFER

TO FOUNDATION PLAN FOR FRAMING)

N.T.S.

MAX

SEE BAND SIZE IN

DECK FRAMING TABLE

HOUSE OR SUNROOM FOUNDATION

OR SCREENED PORCH (REFER

TO FOUNDATION PLAN FOR FRAMING)

N.T.S.

FOOTING IN LARGE DECK FRAMING TABLE

6X6 PT POST ON

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

PROVIDE FULL BLOCKING

- 6X6 PT POST ON

FTG (TYP. UNO)

BACK TO SECOND PARALLEL JOIST AT

EACH RAIL POST

16"X16"X10" DP. CONC.

PROVIDE FULL BLOCKING

BACK TO SECOND

EACH RAIL POST

PARALLEL JOIST AT



- 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

SÜMMIT





CLIENT: DR Horton Carolina Divis 8001 Arrouridge Blvd. **Charlotte: NC 28**213

Details Foundation Details Wall PROJECT: Standard I Stem

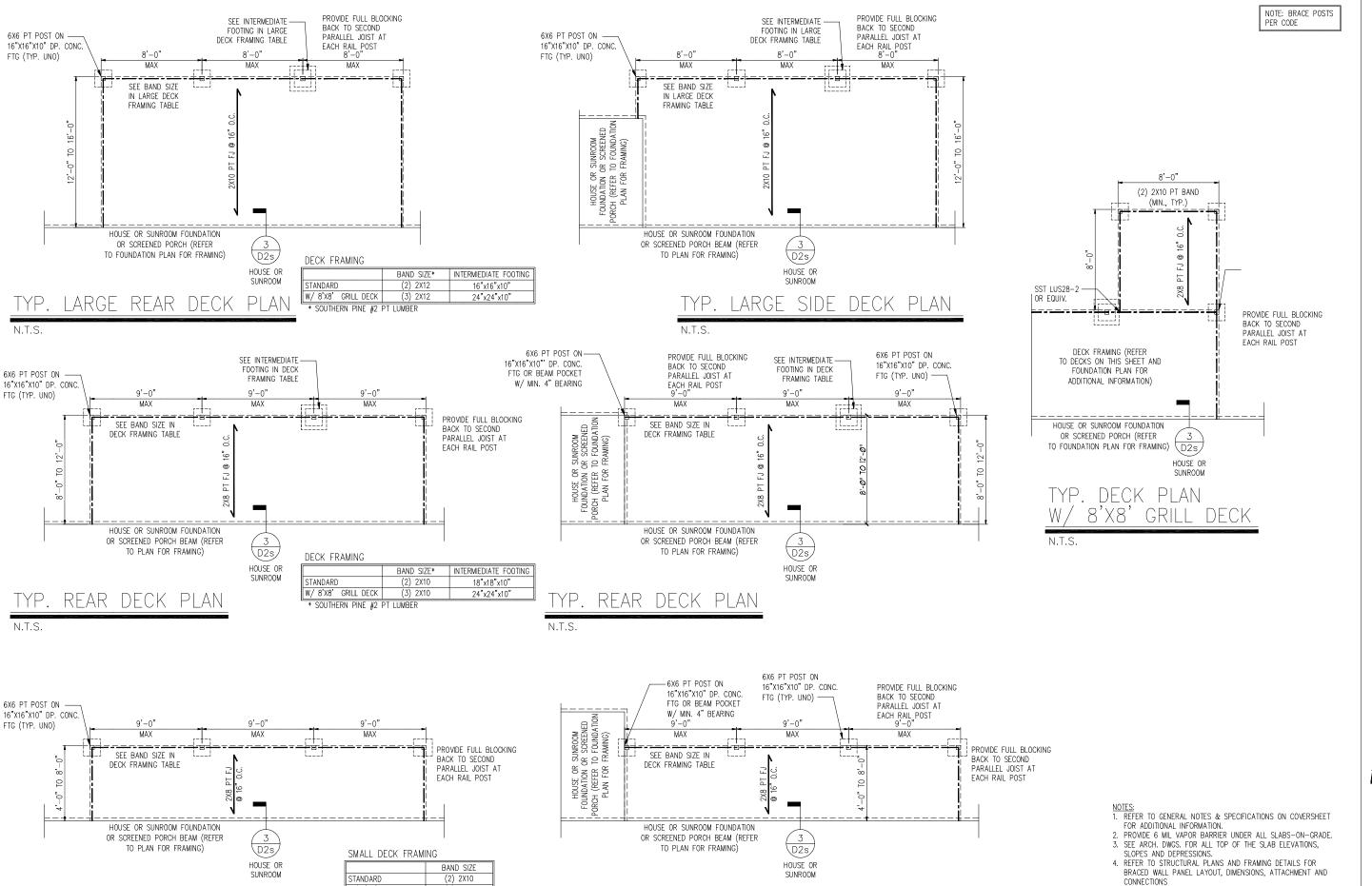


DATE: 3/2/20 8CALE: 27x84 1/4"+1"-**8"** 1x6" 1/8"+1"-**8"** PROJECT & P-19Ø1-IØR DRAIN BY: LAG

HECKED BY: WAJ

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D4s



TYP. SMALL REAR DECK PLAN

W/8'X8' GRILL DECK

\* SOUTHERN PINE #2 PT LUMBER

TYP. SMALL REAR DECK PLAN

N.T.S.

(3) 2X10

SÜMMIT





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

Details Foundation Details Wall PROJECT: Standard I Stem



DATE: 3/2/20

SCALE: 22x84 1/4"+1"-6" bd1 1/8"+1"-6" PROJECT 1 P-1901-10R DRAIN BY: LAG HECKED SY: WAJ

5. REFER TO LOCAL AND STATEWIDE CODES FOR ADDITIONAL

6. PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE ZONE. INSTALL PER TABLE N1102.1.2 OF THE 2018 NCRC

AMENDMENTS AND REQUIREMENTS NOT SHOWN

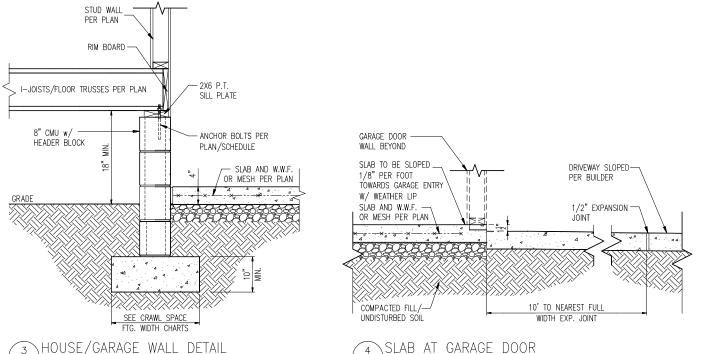
REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

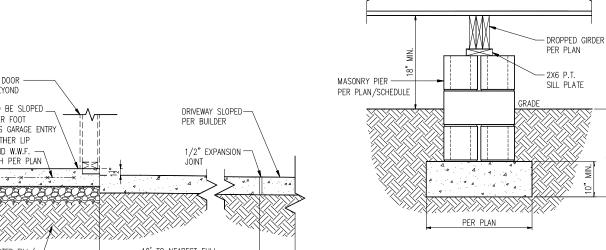
D5s

TYP. FOUNDATION WALL DETAIL

TYP. GARAGE CURB DETAIL

I-JOISTS/FLOOR TRUSSES PER PLAN





SLAB AT GARAGE DOOR TYP. PIER & GIRDER DETAIL PIER SIZE AND HEIGHT SCHEDULE

	TIER SIZE AND TIEROTT SOTIEDOEL						
	SIZE	HOLLOW	SOLID				
	8"X16"	UP TO 32" HEIGHT	UP TO 5'-0" HEIGHT				
	12"X16"	UP TO 48" HEIGHT	UP TO 9'-0" HEIGHT				
	16"X16"	UP TO 64" HEIGHT	UP TO 12'-0" HEIGHT*				
			UP TO 12'-0" HEIGHT*				
	*(4) #4 CONT. REBAR w/ #3 STIRRUPS @ 16" O.C. AND 24" MIN. LAP JOINTS						

CDAWL CDACE EQUINC WIDTH

CRAWL SPACE FOOTING	WIDTH			
# OF STORIES	WIDTH BASED ON SOIL BEARING CAPACITY			
	1500 PSF	2000 PSF	2500 PSF	
1 STORY - STD.	16"	16"	16"	
1 STORY - BRICK VENEER	21"*	21"*	21"*	
2 STORY - STD.	16"	16"	16"	
2 STORY - BRICK VENEER	21"*	21"*	21"*	
3 STORY - STD.	23"	18"	18"	
3 STORY - BRICK VENEER	32"*	24"*	24"*	
*5" BRICK LEDGE HAS BEEN		CRAWL SPACE		

FOOTING WIDTH FOR BRICK SUPPORT

#### WALL ANCHOR SCHEDULE

WALL ANGION SCHEDOLL				
TYPE OF ANCHOR	MIN. CONC.	SPACING	INTERIOR	EXTERIOR
	EMBEDMENT	EMBEDMENT	WALL	WALL
1/2"ø A307 BOLTS w/	7"	6'-0"	YES	YES
STD. 90° BEND				
SST - MAS	4"	5'-0"	NO	YES
HILTI KWIK BOLT KBI 1/2-2-3/4	2-1/4"	6'-0"	YES	NO
1/2"ø HILTI THREADED ROD	7"	6'-0"	YES	YES
w/ HIT HY150 ADHESIVE				

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

- NOTES:

  1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
- PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
   SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.
- 4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR BRACED WALL PANEL LAYOUT, DIMENSIONS, ATTACHMENT AND CONNECTIONS
- 5. REFER TO LOCAL AND STATEWIDE CODES FOR ADDITIONAL AMENDMENTS AND REQUIREMENTS NOT SHOWN
- 6. PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE ZONE. INSTALL PER TABLE N1102.1.2 OF THE 2018 NCRC







CLIENT: DR Horton Carolina Divis 8001 Arrowridge Blvd. **Charlotte, NC 28213** 

Details ndation PROJECT: Standard Details Crawl Sp



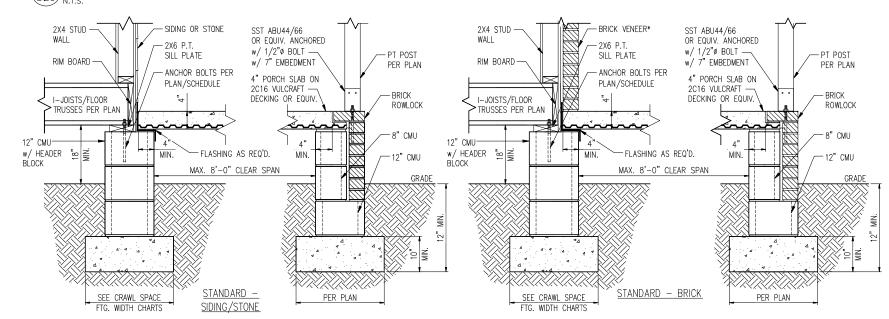
DATE: 3/2/20 9CALE: 22x34 |/4"+1"-6" |bd1 |/8"+1"-6" PROJECT & P-19Ø1-IØR DRAIN BY: LAG

CHECKED SY: WAJ

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS



# IYP. FRONT PORCH DETAIL



FRONT PORCH DETAIL w/ SUSPENDED SLAB

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

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

- a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.
- b. MINIMUM EDGE DISTANCE FOR BOLTS IS 2½".
- c. NAILS MUST PENETRATE THE SUPPORTING STRUCTURE BAND A MINIMUM OF 13

## DECK ATTACHMENT SCHEDULE (BRICK STRUCTURES)

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

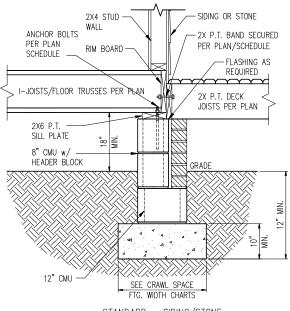
- a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.
- b. MINIMUM EDGE DISTANCE FOR BOLTS IS  $2\frac{1}{2}$ ".

#### CRAWL SPACE FOOTING WIDTH

FOOTING WIDTH FOR BRICK SUPPORT

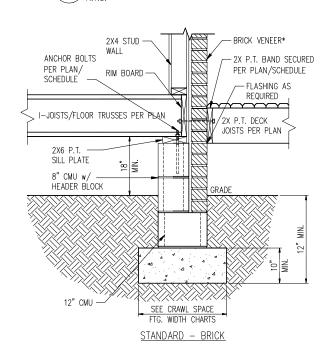
# OF STURIES	WIDTH BASED (	ON SOIL BEARIN	IG CAPACITY
	1500 PSF	2000 PSF	2500 PSF
1 STORY - STD.	16"	16"	16"
1 STORY - BRICK VENEER	21"*	21"*	21"*
2 STORY - STD.	16"	16"	16"
2 STORY - BRICK VENEER	21"*	21"*	21"*
3 STORY - STD.	23"	18"	18"
3 STORY - BRICK VENEER	32"*	24"*	24"*
*5" BRICK LEDGE HAS BEEN A	ADDED TO THE	CRAWL SPACE	

\*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



STANDARD - SIDING/STONE

## \DECK ATTACHMENT DETAIL D2c/<sub>N.T.S.</sub>



DECK ATTACHMENT DETAIL W/ BRICK

- NOTES:

  1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
- PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
   SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.
- 4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR BRACED WALL PANEL LAYOUT, DIMENSIONS, ATTACHMENT AND CONNECTIONS
- REFER TO LOCAL AND STATEWIDE CODES FOR ADDITIONAL AMENDMENTS AND REQUIREMENTS NOT SHOWN
- 6. PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE ZONE. INSTALL PER TABLE N1102.1.2 OF THE 2018 NCRC







CLIENT:
DR Horton Carolina Divi
8001 Arrouridge Blvd.
Charlotte, NC 28213

Details ndation PROJECT: Standard Details Crawl Sp



DATE: 3/2/20 8CALE: 27x84 1/4"+1"-**8"** 1x6" 1/8"+1"-**8"** PROJECT & P-1961-16 DRAIN BY: LAG HECKED BY: WAJ

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D2c





Details : Foundation 1 PROJECT:
Standard Details
Crawl Space

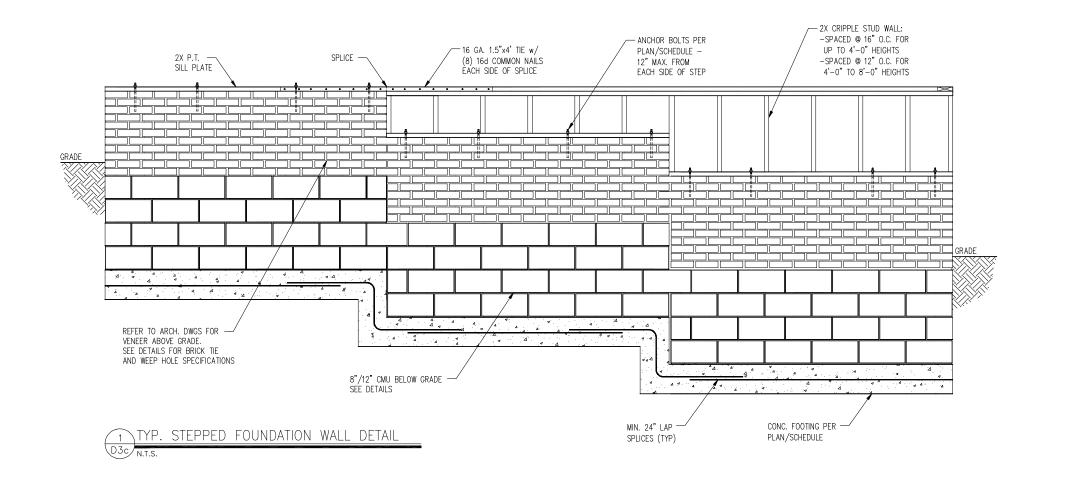


DRAWNG DATE: 3/2/20 9CALE: 22x34 |/4"+|"-6" |bd1 |/8"+|"-6" PROJECT & P-1967-16R DRAIN BY: LAG

CHECKED BY: WAJ

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVENOS

D3c



- 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.
- 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





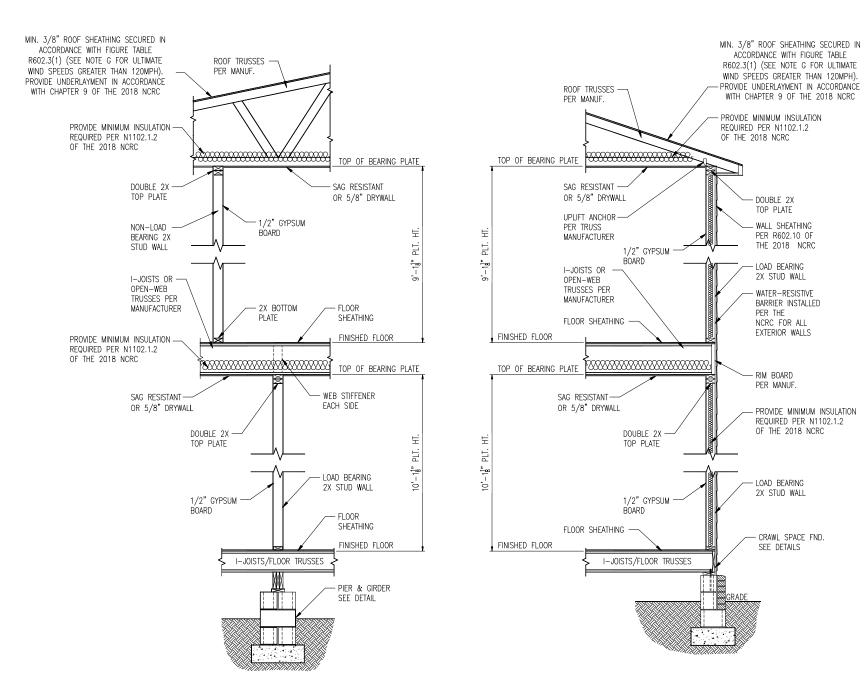
Details Foundation PROJECT: Standard Details Crawl Sp



DATE: 3/2/20 9CALE: 22x34 |/4"+1"-6" |bd1 |/8"+1"-6" PROJECT & P-19Ø1-IØR DRAIN BY: LAG CHECKED SY: WAJ

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D4c



TYP. INTERIOR LOAD BEARING WALL SECTION

2 TYP. EXTERIOR LOAD BEARING WALL SECTION

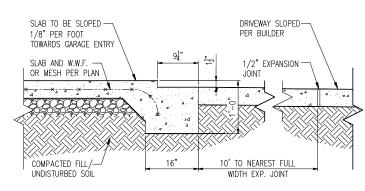
-SIMILAR w/ BRICK AND STONE -BRICK TIES SPACED ® 16" O.C. HORIZ. & 24" O.C. VERT. -MIN. 3/16"Ø WEEP HOLES ® 33" O.C.

- NOTES:

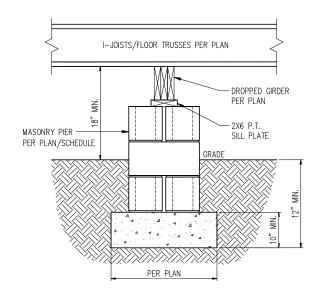
  1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
- PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
   SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.
- 4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR BRACED WALL PANEL LAYOUT,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

HOUSE/GARAGE WALL DETAIL

(2) #5 OR (3) #4— REBAR W/ MIN. 25" LAP SPLICE \*IF INTERIOR GARAGE WALL IS BEING USED AS A BRACED WALL PANEL/BEARING WALL — DOUBLE 2X6 P.T. SILL PLATE W/ 5/8" DIA. THREADED ANCHOR ROD W/ 90 DGD., 8" LONG HOOK TIED TO FOOTING REBAR. ANCHORS SPACED AT 8'-0" O.C. (MAX.) AND WITHIN 12" OF ENDS OF EACH PLATE SECTION. FILL CELLS SOLID W/ 3000 PSI CONCRETE



SLAB AT GARAGE DOOR



TYP. PIER & GIRDER DETAIL

#### NOTES:

- APPLICABLE FOR WIND ZONES UP TO 150 MPH
- REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
- 3. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
- FROMDE 6 MIL VAFOR BARRIER ONDER ALL SLABS-ON-GRADE
   SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS,
   SLOPES AND DEPRESSIONS.
- 5. 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
   PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE
- . PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE ZONE. INSTALL PER TABLE N1102.1.2 OF THE NCRC

SUMMIT

120 PRIMAD IN, SUITE 108

120 PRIMAD IN, SUITE 108

OFFICE: 913.300.9991

PAY: 913.300.9993





CLIENT:
DR Horton Carolina Division
8001 Arrowridge Blvd.
Charlotte, NC 28013

PROJECT:
Standard Details
Crawl Space Foundation Details - High Wind



PAUING

DATE: 3/7/29

SCALE: 22/24 | I/4\*\*I-9\*\*

PROJECT 1 P-120\*I-9R

DRAIN BY: LAG

CHECKED BY: WAJ

ORIGINAL INFORMATION
PROJECT P DAT

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D5c





CLENT: DR Horton 8001 Arrow Charlotte, N

8 Ĭ Details ndation Details | Sp PROJECT: Standard D Crawl

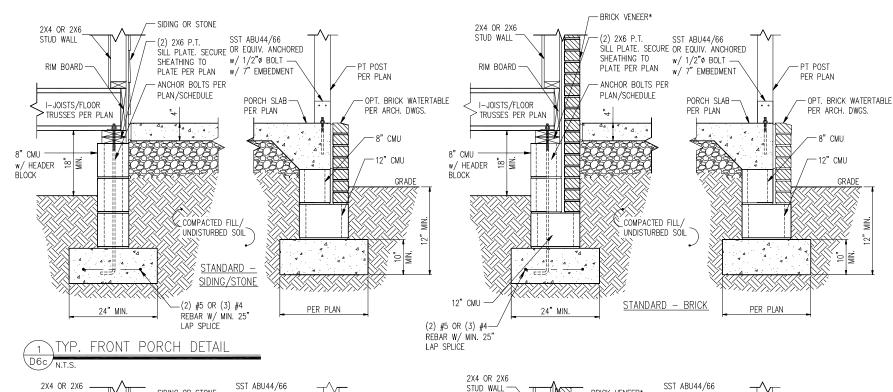


DATE: 3/2/20 8CALE: 27x84 1/4"+1"-**8"** 1x6" 1/8"+1"-**8"** PROJECT & P-1961-16

DRAIN BY: LAG HECKED BY: WAJ

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D6c



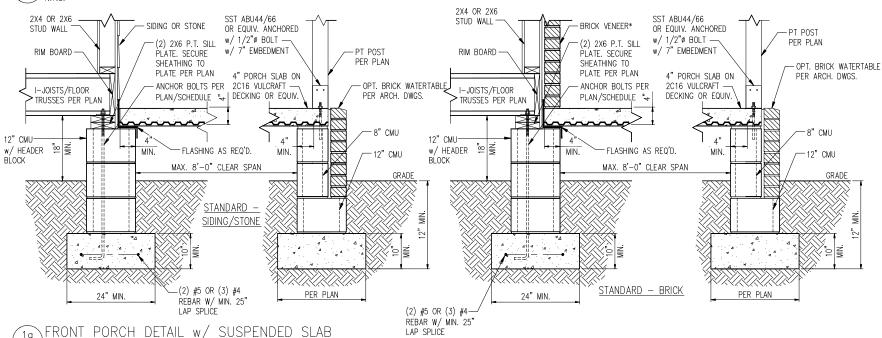


PLATE PER PLAN PER PLAN/SCHEDULE-- FLASHING AS REQUIRED -JOISTS/FLOOR TRUSSES PER-PLAN 2X P.T. DECK JOISTS PER PLAN SILL PLATE SEE DETAIL 1/D6c 8" CMU w/ HEADER BLOCK 12" CMU (2) #5 OR (3) #4-24" MIN. REBAR W/ MIN. 25" LAP SPLICE DECK ATTACHMENT DETAIL W/ BRICK

DECK ATTACHMENT DETAIL

2X4 OR 2X6 -

STUD WALL

SHEATHING TO

RIM BOARD. SECURE

I-JOISTS/FLOOR TRUSSES PER PLAN

PER PLAN/SCHEDULE—PLATE PER PLAN

(2) 2X6 P.T. SILL PLATE

8" CMU w/

HEADER BLOCK

12" CMU

D6c N.T.S.

2X4 OR 2X6

STUD WALL

SHEATHING TO

RIM BOARD. SECURE

ANCHOR BOLTS

ANCHOR BOLTS

- SIDING OR STONE

2X P.T. DECK

JOISTS PER PLAN

- 2X P.T. BAND SECURED

FLASHING AS

SEE DETAIL 1/D6c (STD) SEE DETAIL 1a/D6c (PARGED)

> (2) #5 OR (3) #4 REBAR W/ MIN. 25'

LAP SPLICE

BRICK VENEER\*

- 2X P.T. BAND SECURED

PER PLAN/SCHEDULE

REQUIRED

PER PLAN/SCHEDULE

## DECK ATTACHMENT SCHEDULE (ALL STRUCTURES EXCEPT BRICK)

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

- a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.
- b. MINIMUM EDGE DISTANCE FOR BOLTS IS 23".

D6c/<sub>N.T.S.</sub>

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

## DECK ATTACHMENT SCHEDULE (BRICK STRUCTURES)

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

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

16" O.C. HORIZ. & 24" O.C. VERT. AND 3/16"Ø WEEP HOLES @ 33" O.C. LOCATED

\*BRICK TIES SPACED @

A MINIMUM OF 4" ABOVE THE EARTH

1. APPLICABLE FOR WIND ZONES UP TO 150 MPH

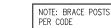
2. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.

3. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE. 4. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS,

SLOPES AND DEPRESSIONS. 5. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR BRACED WALL PANEL LAYOUT, DIMENSIONS, ATTACHMENT AND CONNECTIONS

6. REFER TO LOCAL AND STATEWIDE CODES FOR ADDITIONAL AMENDMENTS AND REQUIREMENTS NOT SHOWN

PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE ZONE. INSTALL PER TABLE N1102.1.2 OF THE NCRC



6X6 PT POST ON -16"X16"X10" DP. CONC.

FTG (TYP. UNO)

PROVIDE FULL BLOCKING BACK TO SECOND

PARALLEL JOIST AT EACH RAIL POST



SÜMMIT



CLIENT:
DR Horton Carolina Divi
8001 Arrouridge Blvd.
Charlotte, NC 28213

Wind In g Ĭ Details ndation PROJECT: Standard Details Crawl Sp

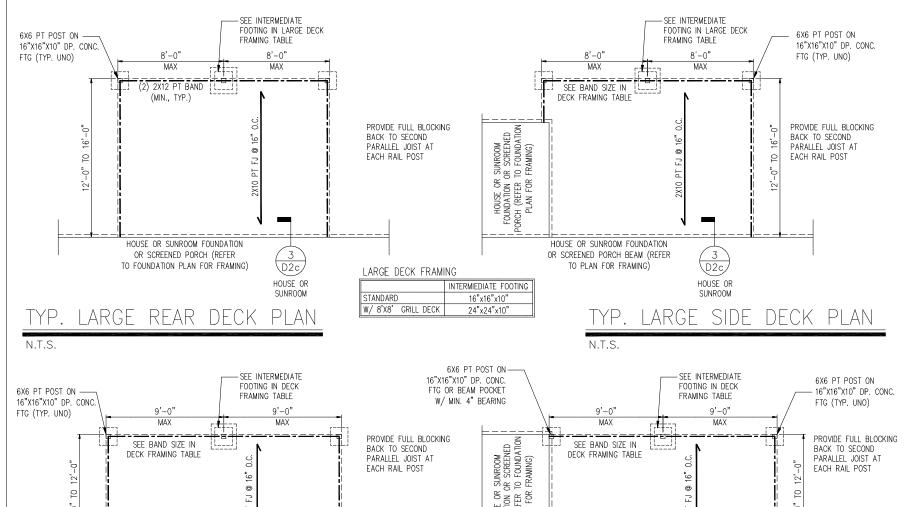


DATE: 3/2/20 8CALE: 27x84 1/4"+1"-**8"** 1x6" 1/8"+1"-**8"** PROJECT & P-19Ø1-IØR

DRAIN BY: LAG HECKED BY: WAJ

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS





HOUSE OR SUNROOM FOUNDATION

OR SCREENED PORCH BEAM (REFER

TO PLAN FOR FRAMING)

TYP. REAR DECK PLAN

N.T.S.

D2c

HOUSE OR

DECK FRAMING

W / 8'X8' GRILL DECK

\* SOUTHERN PINE #2 PT LUMBER

STANDARD

HOUSE OR SUNROOM FOUNDATION  $\frac{3}{D2c}$ OR SCREENED PORCH BEAM (REFER TO PLAN FOR FRAMING) HOUSE OR INTERMIEDIATE FOOTING SIDE DECK PLAN

N.T.S.

-6X6 PT POST ON 16"X16"X10" DP. CONC. 6X6 PT POST ON FTG OR BEAM POCKET 6X6 PT POST ON -16"X16"X10" DP. CONC. 16"X16"X10" DP. CONC W/ MIN. 4" BEARING FTG (TYP. UNO) R SUNROOM OR SCREENED TO FOUNDATION R FRAMING) FTG (TYP. UNO) MAX MAX MAX #*--*---PROVIDE FULL BLOCKING PROVIDE FULL BLOCKING SEE BAND SIZE IN SMALL [---] SEE BAND SIZE IN SMALL BACK TO SECOND BACK TO SECOND DECK FRAMING TABLE DECK FRAMING TABLE HOUSE OR FOUNDATION OI ORCH (REFER T PLAN FOR F PARALLEL JOIST AT PARALLEL JOIST AT EACH RAIL POST EACH RAIL POST 2 HOUSE OR SUNROOM FOUNDATION HOUSE OR SUNROOM FOUNDATION OR SCREENED PORCH BEAM (REFER OR SCREENED PORCH BEAM (REFER TO PLAN FOR FRAMING) D2c TO PLAN FOR FRAMING) D2c SMALL DECK FRAMING HOUSE OR HOUSE OR BAND SIZE SUNROOM STANDARD (2) 2X10 W/ 8'X8' GRILL DECK (3) 2X10 TYP. SMALL REAR DECK PLAN TYP. SMALL SIDE DECK PLAN \* SOUTHERN PINE #2 PT LUMBER

BAND SIZE\*

16"x16"x10'

24"x24"x10"

(2) 2X10 (3) 2X10

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

D2c

HOUSE OR

SUNROOM

SST LUS28-2

\_\_\_\_\_\_

DECK FRAMING (REFER

TO DECKS ON THIS SHEET AND

FOUNDATION PLAN FOR

ADDITIONAL INFORMATION)

HOUSE OR SUNROOM FOUNDATION

OR SCREENED PORCH (REFER

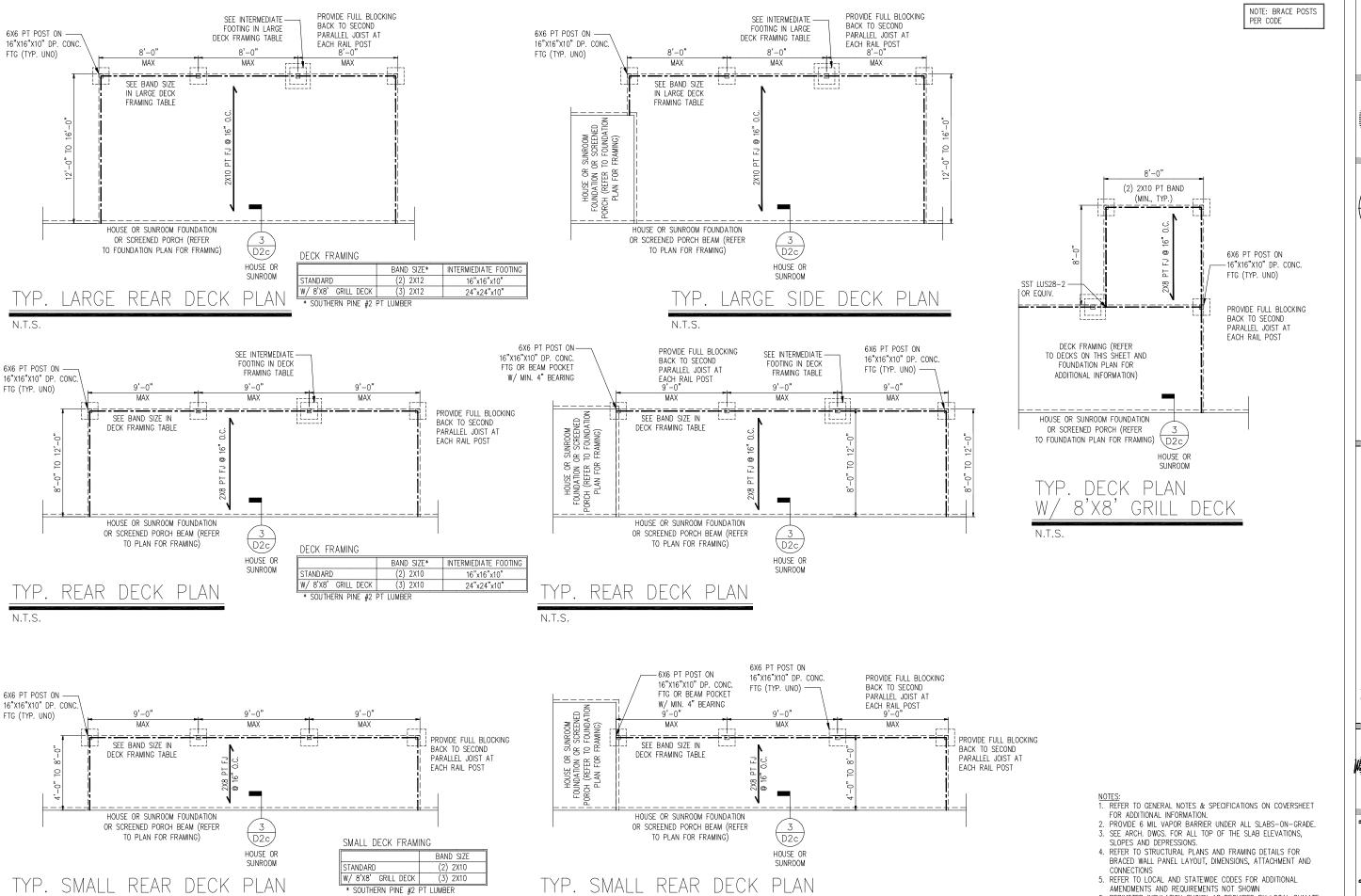
TO FOUNDATION PLAN FOR FRAMING)

OR EQUIV.

8'-0" (2) 2X10 PT BAND (MIN., TYP.)

- NOTES:

  1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
- 2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
  3. SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS,
  SLOPES AND DEPRESSIONS.
- 4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR BRACED WALL PANEL LAYOUT, DIMENSIONS, ATTACHMENT AND CONNECTIONS
- 5. REFER TO LOCAL AND STATEWIDE CODES FOR ADDITIONAL AMENDMENTS AND REQUIREMENTS NOT SHOWN
- 6. PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE ZONE. INSTALL PER TABLE N1102.1.2 OF THE 2018 NCRC



\* SOUTHERN PINE #2 PT LUMBER

SÜMMIT





Wind In g Ĭ Details ndation Details | Sp PROJECT: Standard D Crawl



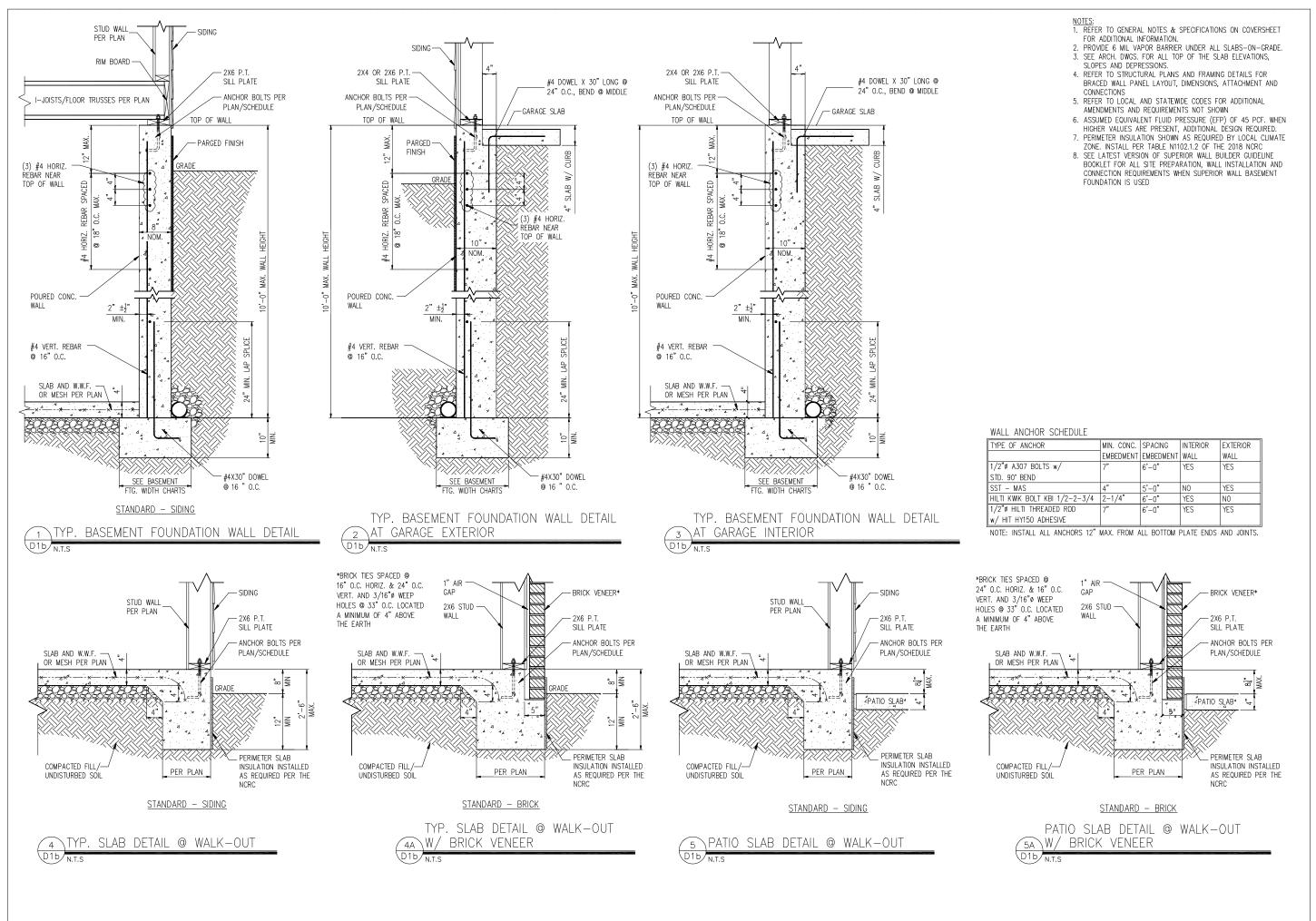
DATE: 3/2/20 PROJECT & P-19Ø1-IØR

8CALE: 22x34 1/4"+1"-69" lbd1 1/9"+1"-69" DRAIN BY: LAG HECKED BY: WAJ

6. PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE ZONE. INSTALL PER TABLE N1102.1.2 OF THE 2018 NCRC

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D8c



SUMMIT
120 PRIMACION, SUITE 100
NALEIGH, NC 27003
OPTICE: \$93,380,0991





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

Project. Standard Details Basement Foundation Details



STRUCTURAL MEMBERS C

DRAWING

DATE: 37/39

SCALE: 2264 IA\*-1-6\*

PROJECT 9 P-B9T-16R

DRAWIN BY LAG

CHOCKED BY IAM

CHECKED BY: WAJ

RIGINAL INFORMATION

PROJECT DATE

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

TO DO







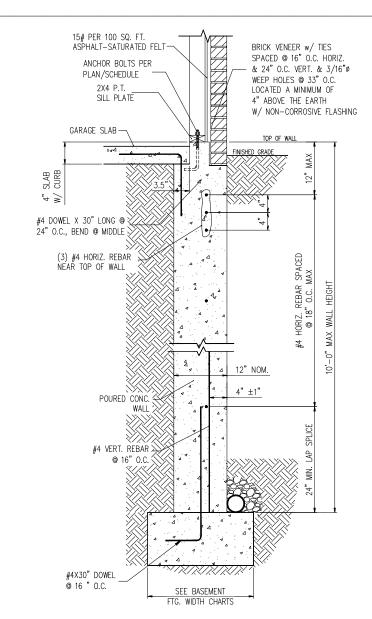


STRUCTURAL MEMBERS ONL DATE: 3/2/20 8CALE: 22x34 1/4"+1"-69" lbd1 1/8"+1"-69" PROJECT & P-1961-16

DRAIN BY: LAG HECKED BY: WAJ

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS





BRICK VENEER w/ TIES

WEEP HOLES @ 33" O.C.

LOCATED A MINIMUM OF

4" ABOVE THE EARTH

- ANCHOR BOLTS PER

#4X30" DOWEL

DRIVEWAY SLOPED-

1/2" EXPANSION

PER BUILDER

10' TO NEAREST FULL

WIDTH EXP. JOINT

PLAN/SCHEDULE

- 2X6 P.T.

TOP OF WALL

SILL PLATE

PER PLAN

I-JOISTS/FLOOR TRUSSES PER PLAN

(3) #4 HORIZ.

POURED CONC. -

#4 VERT. REBAR © 16" O.C.

SLAB AND W.W.F. OR MESH PER PLAN

WALL

GARAGE DOOR WALL BEYOND SLAB TO BE SLOPED.

1/8" PER FOOT

SLAB AND W.W.F.

OR MESH PER PLAN

COMPACTED FILL/

D2b <sub>N.T.S</sub>

TOWARDS GARAGE ENTRY W/ WEATHER LIP

ŘÉBÁR NEAR TOP OF WALL RIM BOARD

2" 🔩 1"

SEE BASEMENT

STANDARD - BRICK OR WATERTABLE

TYP. BASEMENT FOUNDATION WALL DETAIL

W/ BRICK VENEER

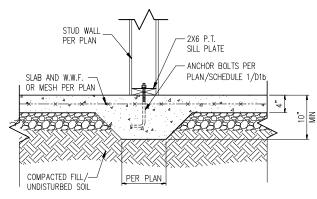
3 SLAB AT GARAGE DOOR

SPACED @ 16" O.C. HORIZ.

& 24" O.C. VERT. & 3/16"ø

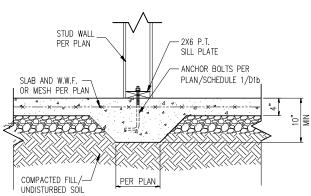
STANDARD - BRICK OR WATERTABLE

## TYP. BASEMENT FOUNDATION WALL DETAIL BRICK VENEER AT GARAGE EXTERIOR



D2b/N.T.S

D2b/N.T.S



4 TYP. THICKENED SLAB DETAIL

# DECK ATTACHMENT DETAIL W/ BRICK

- SIDING OR STONE

2X P.T. DECK

- BRICK VENEER\*

- 2X P.T. BAND SECURED

NOTES:

1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET

PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS-ON-GRADE.
 SEE ARCH. DWGS. FOR ALL TOP OF THE SLAB ELEVATIONS, SLOPES AND DEPRESSIONS.

BRACED WALL PANEL LAYOUT, DIMENSIONS, ATTACHMENT AND

6. ASSUMED EQUIVALENT FLUID PRESSURE (EFP) OF 45 PCF. WHEN HIGHER VALUES ARE PRESENT, ADDITIONAL DESIGN REQUIRED.

7. PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE

CONNECTION REQUIREMENTS WHEN SUPERIOR WALL BASEMENT

ZONE. INSTALL PER TABLE N1102.1.2 OF THE 2018 NCRC 8. SEE LATEST VERSION OF SUPERIOR WALL BUILDER GUIDELINE BOOKLET FOR ALL SITE PREPARATION, WALL INSTALLATION AND

4. REFER TO STRUCTURAL PLANS AND FRAMING DETAILS FOR

CONNECTIONS
5. REFER TO LOCAL AND STATEWIDE CODES FOR ADDITIONAL AMENDMENTS AND REQUIREMENTS NOT SHOWN

FOR ADDITIONAL INFORMATION.

FOUNDATION IS USED

PER PLAN/SCHEDULE

- FLASHING AS REQUIRED

2X P.T. DECK JOISTS PER PLAN

JOISTS PER PLAN

- 2X P.T. BAND SECURED

PER PLAN/SCHEDULE

FLASHING AS

REQUIRED

~~~~

2X4 STUD -

RIM BOARD

DOUBLE 2X TOP PLATE

2X6\_STUD -

DECK ATTACHMENT DETAII

STANDARD - SIDING/STONE

STANDARD - BRICK

WALL

2X4 STUD

RIM BOARD -

WALL

I-JOISTS/FLOOR TRUSSES PER PLAN

DOUBLE 2X TOP PLATE 2X6 STUD -WALL

I-JOISTS/FLOOR TRUSSES PER PLAN

\*BRICK TIES SPACED @ 16" O.C. HORIZ. & 24" O.C.

VERT. AND 3/16"ø WEEP

A MINIMUM OF 4" ABOVE

THE FARTH

HOLES @ 33" O.C. LOCATED

| BASEMENT FOOTING MID                           | IH                                   |          |          |
|------------------------------------------------|--------------------------------------|----------|----------|
| # OF STORIES                                   | WIDTH BASED ON SOIL BEARING CAPACITY |          |          |
|                                                | 1500 PSF                             | 2000 PSF | 2500 PSF |
| 1 STORY - STD.                                 | 18"                                  | 18"      | 18"      |
| 1 STORY - BRICK VENEER                         | 24"*                                 | 24"*     | 24"*     |
| 2 STORY - STD.                                 | 22"                                  | 18"      | 18"      |
| 2 STORY - BRICK VENEER                         | 28"*                                 | 24"*     | 24"*     |
| *5" BRICK LEDGE HAS BEEN ADDED TO THE BASEMENT |                                      |          |          |
| FOOTING WIDTH FOR BRICK SUPPORT                |                                      |          |          |

#### DECK YILYONNENI COMEDINE (VII CIDITATIDES ENCEDI DDICK)

| DECK ATTACHMENT SCHEDULE (A                   | LL SIKUCIUKES    | EXCEPT DRICK)     |
|-----------------------------------------------|------------------|-------------------|
| FASTENERS                                     | MAX. 8'-0" JOIST | MAX. 16'-0" JOIST |
|                                               | SPAN             | SPAN              |
| 5/8" GALV. BOLTS w/ NUT & WASHER <sup>b</sup> | (1) @ 3'-6" O.C. | (1) @ 1'-8" O.C.  |
| AND                                           | AND              | AND               |
| 12d COMMON GALV. NAILS C                      | (2) @ 8" O.C.    | (3) @ 6" O.C.     |

- a. ATTACHMENT INTERPOLATION BETWEEN 8' AND 16' JOIST SPANS IS ALLOWED.
- b. MINIMUM EDGE DISTANCE FOR BOLTS IS  $2\frac{1}{2}^{"}$ .
- c. NAILS MUST PENETRATE THE SUPPORTING STRUCTURE BAND A MINIMUM OF 12

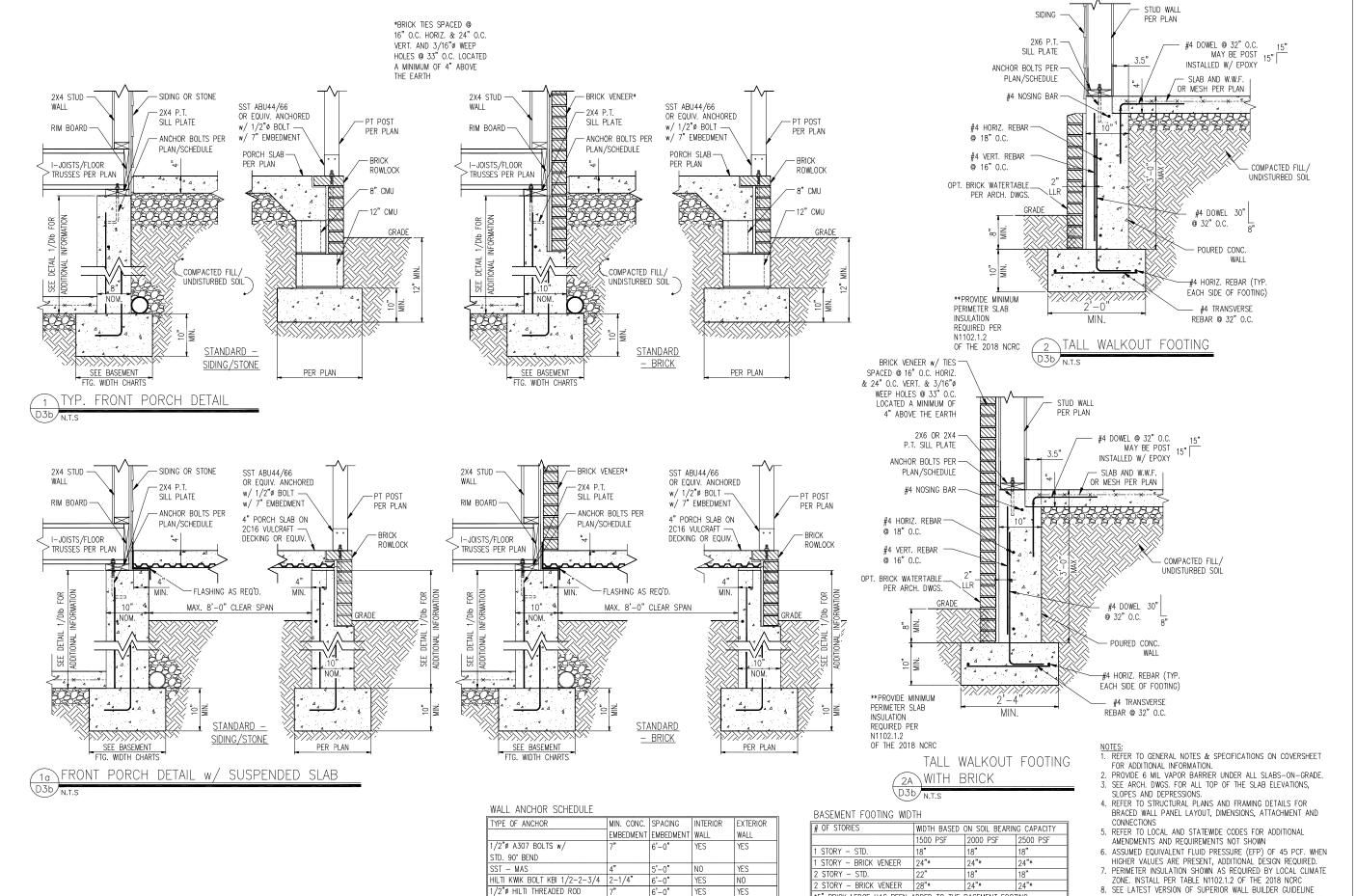
| FASTENERS                                     | MAX. 8'-0" JOIST | MAX. 16'-0" JOIST |
|-----------------------------------------------|------------------|-------------------|
|                                               | SPAN             | SPAN              |
| 5/8" GALV. BOLTS w/ NUT & WASHER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

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

# DECK ATTACHMENT SCHEDULE (BRICK STRUCTURES)

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

b. MINIMUM EDGE DISTANCE FOR BOLTS IS 21.



w/ HIT HY200 ADHESIVE

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

\*5" BRICK LEDGE HAS BEEN ADDED TO THE BASEMENT FOOTING

THIS CHART DOES NOT APPLY TO TALL WALKOUT, REFER TO DETAILS

SUMMIT
120 PERMACR, SUITE 108
RALEIGH, NC 27603
OFFICE: 951,390,3991





vision .

CLIENT:
DR Horton Carolina 1
8001 Arrowidge Blv
Charlotte, NC 28213

PROJECT: Standard Details Basement Foundation Details



STRUCTURAL MEMBERS ONLY

STRUCTURAL MEMBERS ONLY

DRAING

DATE: 32/29

SCALE: 22/24 14\*\*1-6\*\*
But 18\*\*1-8\*\*

DATE: 37/39

SCALE: 22/84 I/4\*\*I\*-9\*
INT I 18\*\*I\*-9\*
PROJECT \* P-1997-I/9\*
PRAIN BY: LAG
CHECKED BY: IIIAJ

ORIGINAL INFORMATION
PROJECT P DATE
1/3/2017

BOOKLET FOR ALL SITE PREPARATION, WALL INSTALLATION AND

CONNECTION REQUIREMENTS WHEN SUPERIOR WALL BASEMENT

FOUNDATION IS USED

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D3b





Details Foundation PROJECT: Standard Details Basement



DRAWNG DATE: 3/2/20

 ${\underline{\tt NOTES:}}$  1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET

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

6. ASSUMED EQUIVALENT FLUID PRESSURE (EFP) OF 45 PCF. WHEN HIGHER VALUES ARE PRESENT, ADDITIONAL DESIGN REQUIRED.

7. PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE

ZONE. INSTALL PER TABLE N1102.1.2 OF THE 2018 NCRC

8. SEE LATEST VERSION OF SUPERIOR WALL BUILDER GUIDELINE
BOOKLET FOR ALL SITE PREPARATION, WALL INSTALLATION AND CONNECTION REQUIREMENTS WHEN SUPERIOR WALL BASEMENT

CONNECTIONS
5. REFER TO LOCAL AND STATEWIDE CODES FOR ADDITIONAL AMENDMENTS AND REQUIREMENTS NOT SHOWN

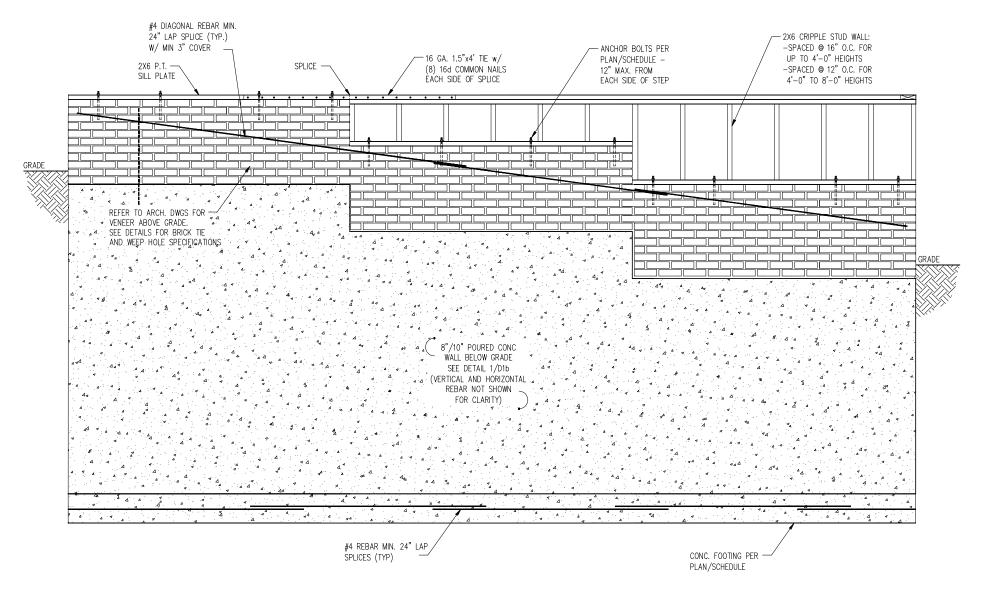
FOR ADDITIONAL INFORMATION.

FOUNDATION IS USED

8CALE: 22x84 1/4"+1"-69" 1x61 1/8"+1"-69" PROJECT & P-1967-16R DRAIN BY: LAG CHECKED BY: WAJ

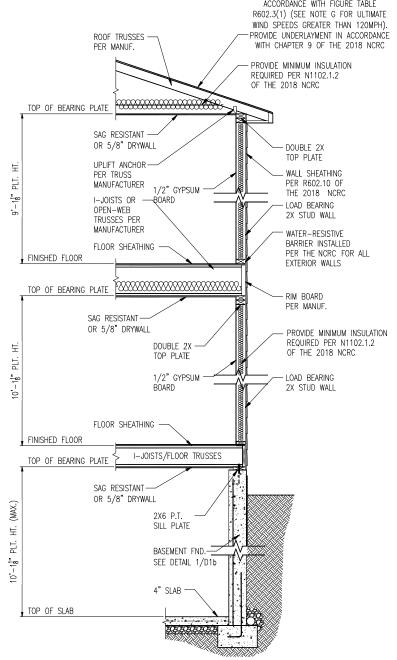
REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVENORS





1 TYP. STEPPED FOUNDATION WALL DETAIL

D4b N.T.S



EXTERIOR LOAD BEARING WALL D5b N.T.S

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

- NOTES:

  1. REFER TO GENERAL NOTES & SPECIFICATIONS ON COVERSHEET FOR ADDITIONAL INFORMATION.
- 2. PROVIDE 6 MIL VAPOR BARRIER UNDER ALL SLABS—ON—GRADE.
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- ZONE. INSTALL PER TABLE N1102.1.2 OF THE 2018 NCRC 8. SEE LATEST VERSION OF SUPERIOR WALL BUILDER GUIDELINE BOOKLET FOR ALL SITE PREPARATION, WALL INSTALLATION AND CONNECTION REQUIREMENTS WHEN SUPERIOR WALL BASEMENT

FOUNDATION IS USED

DATE: 3/2/20 9CALE: 22x34 1/4"+1"-69" bd1 1/8"+1"-69" PROJECT & P-19Ø1-IØR DRAIN BY: LAG

STRUCTURAL MEMBERS ONLY

Details

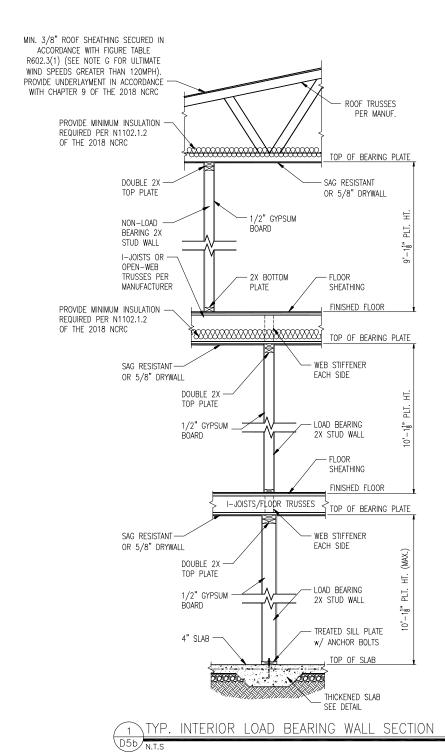
Foundation

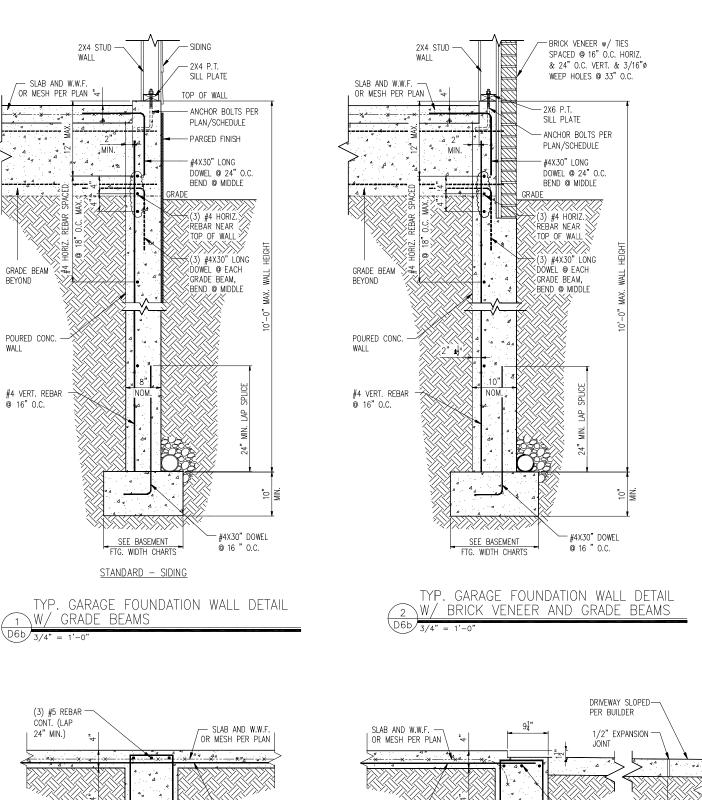
PROJECT: Standard Details Basement

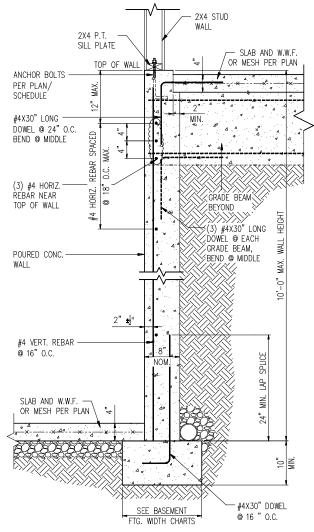
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REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D5b







- NOTES:

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

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- 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
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  7. PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE ZONE. INSTALL PER TABLE N1102.1.2 OF THE 2018 NCRC
- 8. SEE LATEST VERSION OF SUPERIOR WALL BUILDER GUIDELINE BOOKLET FOR ALL SITE PREPARATION, WALL INSTALLATION AND CONNECTION REQUIREMENTS WHEN SUPERIOR WALL BASEMENT FOUNDATION IS USED



SÜMMIT

CLIENT: DR Horton Carolina Divis 8001 Arrowridge Blvd. **Charlotte, NC 28213** 

Details PROJECT: Standard Details Basement

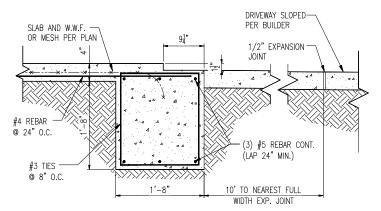


DATE: 3/2/20 9CALE: 22x84 1/4"+1"+8" 1x61 1/8"+1"+8" PROJECT & P-1967-16R DRAIN BY: LAG

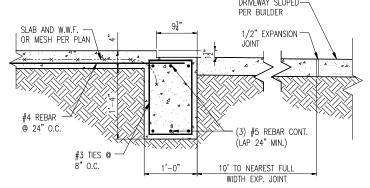
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REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

D6b



GRADE BEAM AT GARAGE DOOR ENLARGED FOR ADDITIONAL LOADS



GRADE BEAM AT GARAGE DOOR

TYP. INTERIOR GARAGE GRADE BEAM D6b/3/4" = 1'-0"

(3) #5 REBAR CONT. (LAP

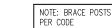
24" MIN.)

#4 RFBAR

TIES @

8" O.C.

HOUSE/GARAGE WALL DETAIL \W/ GRADE BEAMS





SÜMMIT



CLIENT:
DR Horton Carolina Divi
8001 Arrouridge Blvd.
Charlotte, NC 28213

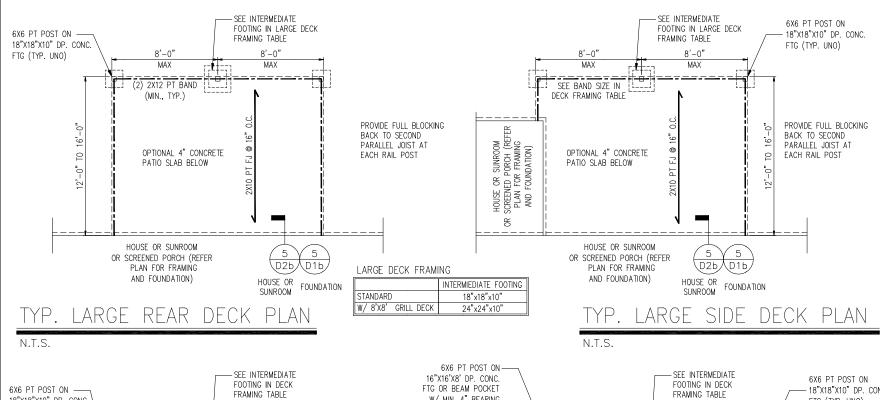
Details undation PROJECT: Standard Details Basement



DATE: 3/2/20 8CALE: 27x84 1/4"+1"-**8"** 1x6" 1/8"+1"-**8"** PROJECT & P-19Ø1-IØR

DRAIN BY: LAG HECKED BY: WAJ

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS D7b



- 18"X18"X10" DP. CONC. W/ MIN. 4" BEARING 18"X18"X10" DP. CONC. FTG (TYP. UNO) 9'-0" 9'-0" FTG (TYP. UNO) MAX MAX MAX \_\_-\_\_\_\_ PROVIDE FULL BLOCKING PROVIDE FULL BLOCKING SEE BAND SIZE IN SEE BAND SIZE IN BACK TO SECOND PARALLEL JOIST AT BACK TO SECOND PARALLEL JOIST AT DECK FRAMING TABLE HOUSE OR SUNROOM SCREENED PORCH (REFI PLAN FOR FRAMING AND FOUNDATION) DECK FRAMING TABLE EACH RAIL POST EACH RAIL POST OPTIONAL 4" CONCRETE OPTIONAL 4" CONCRETE PATIO SLAB BELOW PATIO SLAB BELOW 용 HOUSE OR SUNROOM HOUSE OR SUNROOM OR SCREENED PORCH (REFER OR SCREENED PORCH (REFER D2b (D1b) PLAN FOR FRAMING D2b D1bPLAN FOR FRAMING HOUSE OR FOUNDATION AND FOUNDATION) AND FOUNDATION) HOUSE OR FOUNDATION

TYP. REAR DECK PLAN

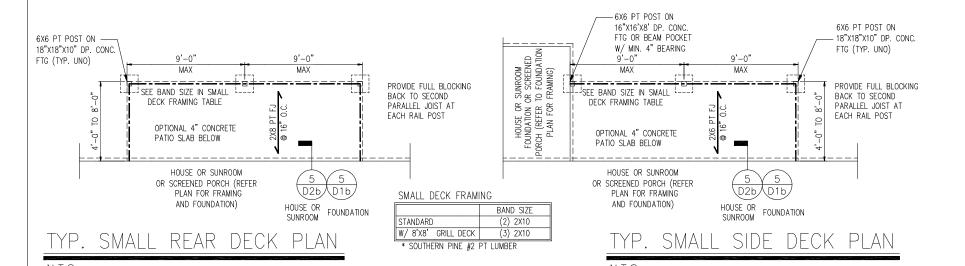
N.T.S.

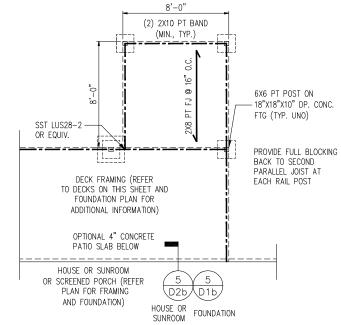
DECK FRAMING

BAND SIZE\* INTERMIEDIATE FOOTING STANDARD (2) 2X10 18"x18"x10" W/ 8'X8' GRILL DECK (3) 2X10 24"x24"x10" \* SOUTHERN PINE #2 PT LUMBER

SIDE DECK PLAN

N.T.S.

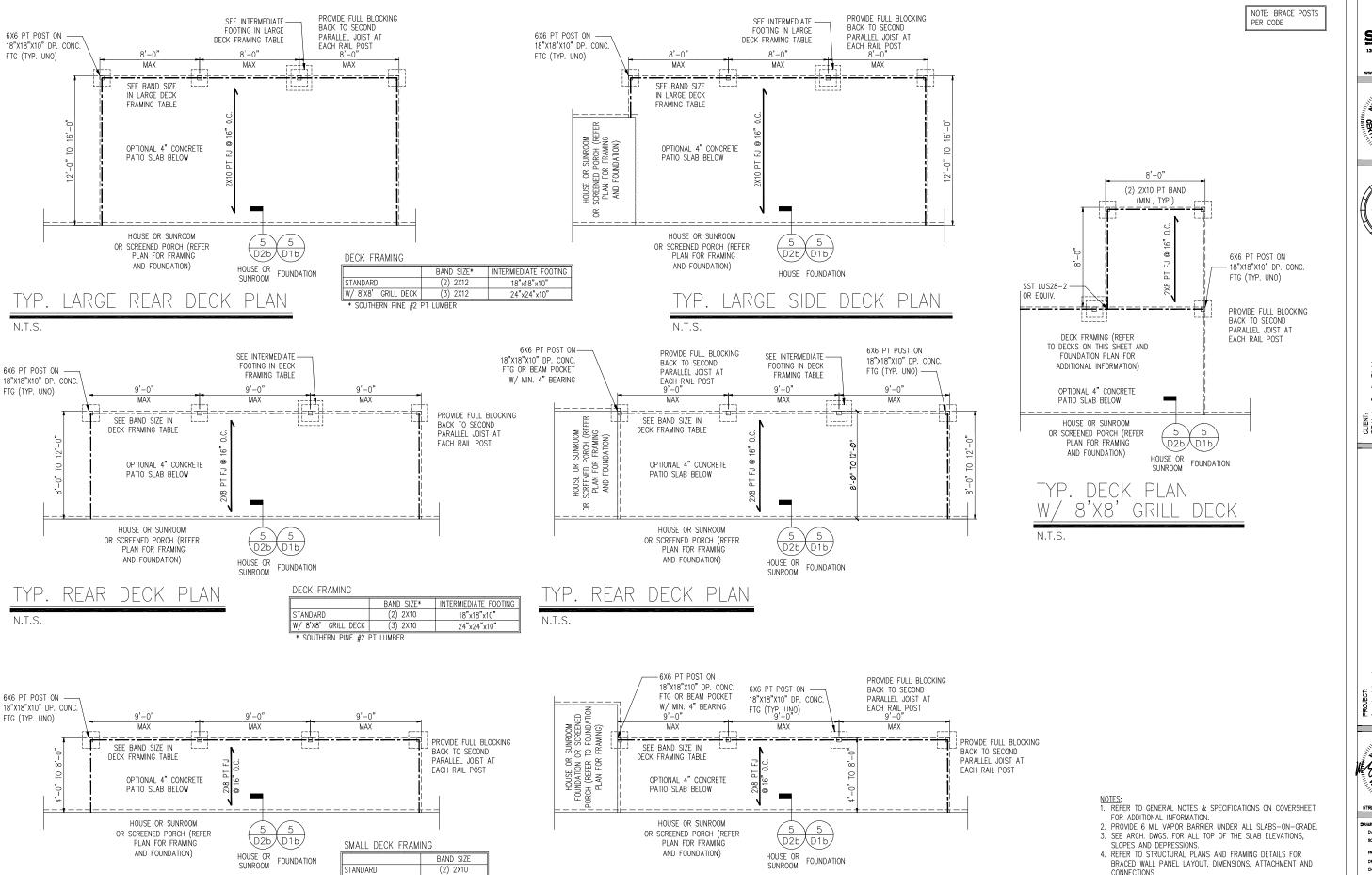




TYP. DECK PLAN W/ 8'X8' GRILL DECK

- NOTES:

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

W/ 8'X8' GRILL DECK

\* SOUTHERN PINE #2 PT LUMBER

TYP. SMALL REAR DECK PLAN

(3) 2X10

SÜMMIT





CLIENT:
DR Horton Carolina Divi
8001 Arrouridge Blvd.
Charlotte, NC 28173

Details undation PROJECT: Standard Details Basement

STRUCTURAL MEMBERS ONL DATE: 3/2/20

8CALE: 27x84 1/4"+1"-**8"** 1x6" 1/8"+1"-**8"** PROJECT & P-19Ø1-IØR DRAIN BY: LAG HECKED BY: WAJ

CONNECTIONS

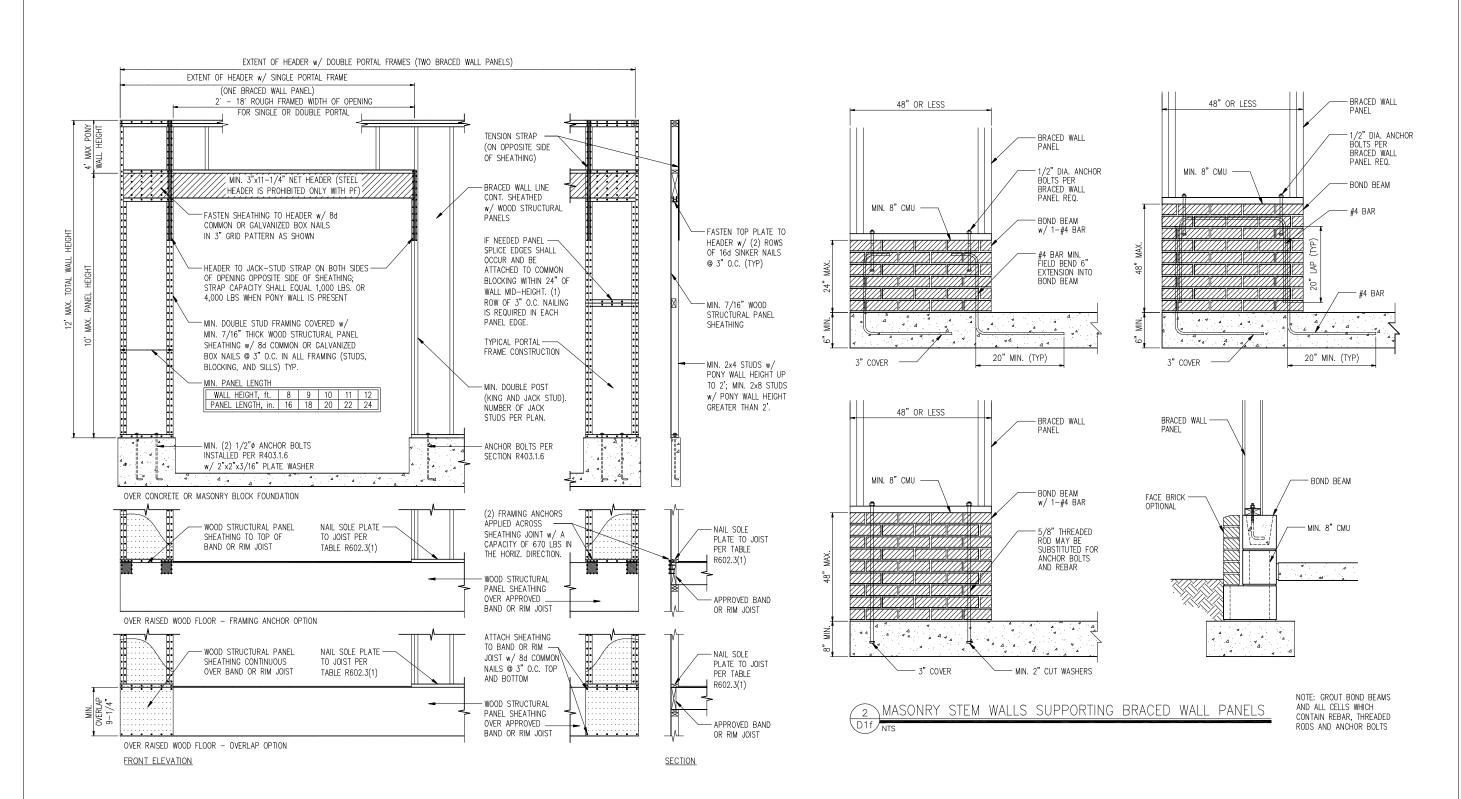
5. REFER TO LOCAL AND STATEWIDE CODES FOR ADDITIONAL

6. PERIMETER INSULATION SHOWN AS REQUIRED BY LOCAL CLIMATE ZONE. INSTALL PER TABLE N1102.1.2 OF THE 2018 NCRC

AMENDMENTS AND REQUIREMENTS NOT SHOWN

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D86



METHOD PF: PORTAL FRAME DETAIL

SÜMMIT





CLIENT: DR Horton Carolina Divi 8001 Arrowridge Blvd. **Charlotte, NC 28313** 

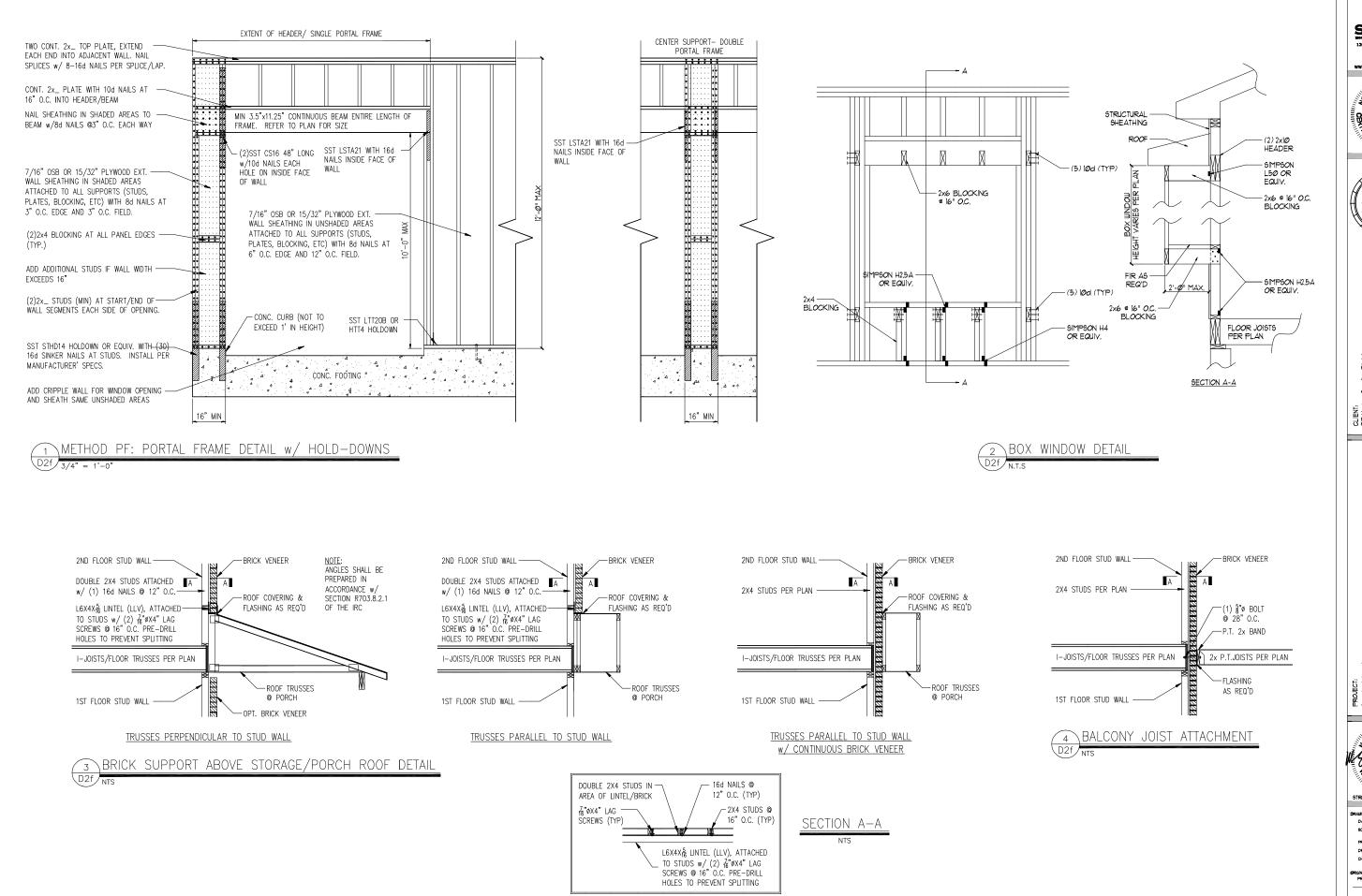
a Details PROJECT: Standard Details Framing



DATE: 3/2/20 9CALE: 22x84 |/4"+|"-6" |bd1 | 1/9"+|"-6" PROJECT & P-1961-16 DRAIN BY: LAG CHECKED SY: WAJ

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS

Dlf



SÜMMIT





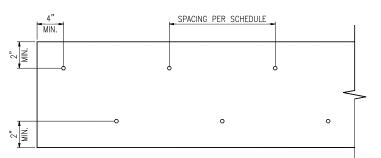
Detail PROJECT: Standard Details Framing



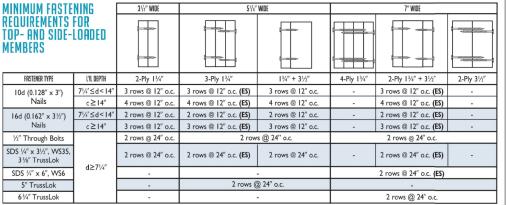
DATE: 3/2/20 8CALE: 22x84 1/4"+1"-69" lbd1 1/8"+1"-69" PROJECT & P-19Ø1-IØR DRAIN BY: LAG

CHECKED SY: WAJ

REFER TO COVER SHEET FOR A COMPLETE LIST OF REVISIONS



**ELEVATION VIEW** 

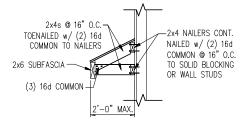


#### NOTES:

- 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 71/4" require special consideration. Please contact your technical representative.
- 3. Three general rules for staggering or offsetting for a certain fastener schedule:

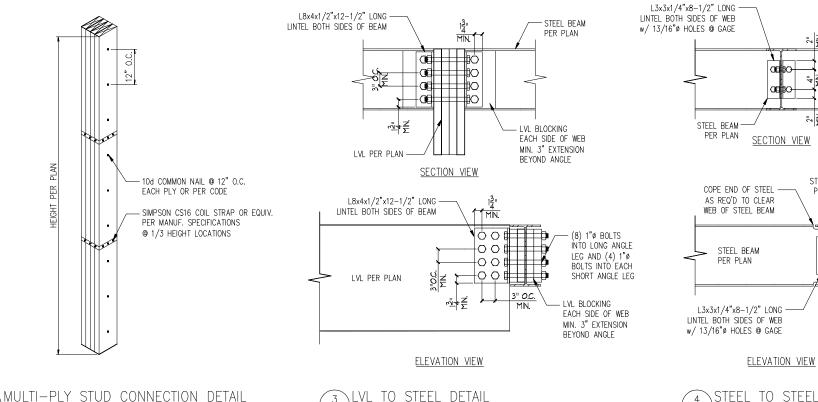
  (1) if staggering or offsetting is not referenced, then none is required;

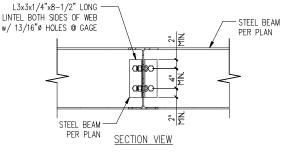
  (2) if staggering is referenced, then fasteners installed in adjacent rows on the front
- side are to be staggered up to one-half the o.c. spacing, but maintaining the fastener clearances above; and (3) if "ES" is referenced, then the fastener schedule must be repeated on each side, with the fasteners on the back side offset up to one-half the o.c. spacing of the front side (whether or not it is staggered).

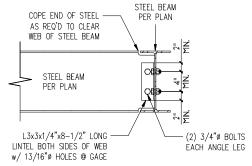














SUMMIT





CLIENT: DR Horton Carolina Divis 8001 Arrowidge Bivd. Charlotte, NC 28213

PROJECT: Standard Details Framing Details



DATE: 3/2/20 9CALE: 22x34 1/4"+1"-69" lbd1 1/8"+1"-69" PROJECT & P-19Ø1-1Ø DRAIN BY: LAG

CHECKED SY: WAJ

REFER TO GOVER SHEET FOR A COMPLETE LIST OF REVISIONS

D3f