

LEFT SIDE ELEVATION

SCALE 1/8" = 1'0"

SHINGLES AS SPECIFIED

RIGHT SIDE ELEVATION

SCALE 1/8" = 1'0"



Purchaser must verify all dimensions and conditions before beginning construction.

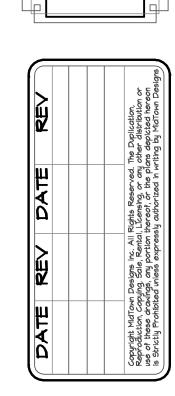
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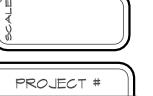
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FOUNDATION STRUCTURAL NOTES:

 \langle I \rangle (3) 2 x IO SPF #2 GIRDER DROPPED, TYPICAL UNO.

2 CONCRETE BLOCK PIER SIZE SHALL BE:

 SIZE
 HALLOW MASONRY
 SOLID MASONRY

 8 × 16
 UP TO 32" HIGH
 UP TO 5'-0" HIGH

 12 × 16
 UP TO 48" HIGH
 UP TO 9'-0" HIGH

 16 × 16
 UP TO 64" HIGH
 UP TO 12'-0" HIGH

 24 × 24
 UP TO 96" HIGH

WITH 30" × 30" × 10" CONCRETE FOOTING, UNO.

3 WALL FOOTING AS FOLLOWS:
DEPTH: 8" - UP TO 2-1/2 STORY
10" - 3 STORY

FOUNDATION VENTING

R408.1 Ventilation. The under-floor space between the bottom

feet (0.67 m squared for each 100 m squared) of under-floor space area. One such ventilating opening shall be within 3 feet (914 mm) of each corner of said building.

CRAWL AREA TO BE VENTED: 1658 SQ.FT. 1658/1500 = 1.105 NET FREE VENTING AREA REQUIRED

A minimum 6 mil. polyethlyne vapor retarder shall be installed

to cover all earth in the crawl space with joints lapped not

SEALED CRAWL SPACE BY OTHERS

of the floor joists and the earth under any building (except space occupied by a basement or cellar) shall be provided with ventilation openings through foundation walls or exterior walls. The minimum net area of ventilation openings

shall not be less than I square foot for each 150 square

SECTION R408 UNDER FLOOR SPACE

R408.2 Ground Vapor Retarder

WIDTH: SIDING (OR EQUAL)

- 16" - UP TO 2-1/2 STORY

- 18" - 3 STORY

BRICK VENEER

CK VENEER
- 16" - 1 STORY
- 20" - 2 STORY
- 24" - 3 STORY

FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO NORTH CAROLINA RESIDENTIAL CODE TABLE R404.1.1 (I THRU 4)

NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF. CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.

ATTACH SILL PLATE WITH 1/2"dia. ANCHOR BOLTS AT 6'-0" CENTERS (7" EMBEDMENT) AND 12" FROM

EACH PLATE END. (SECTION R 403.1.6)

4 " TOESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER. SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR

POINTS NOTED TO HAVE THREE OR MORE STUDS TO FND, TYPICAL.

5 ABBREVIATIONS:

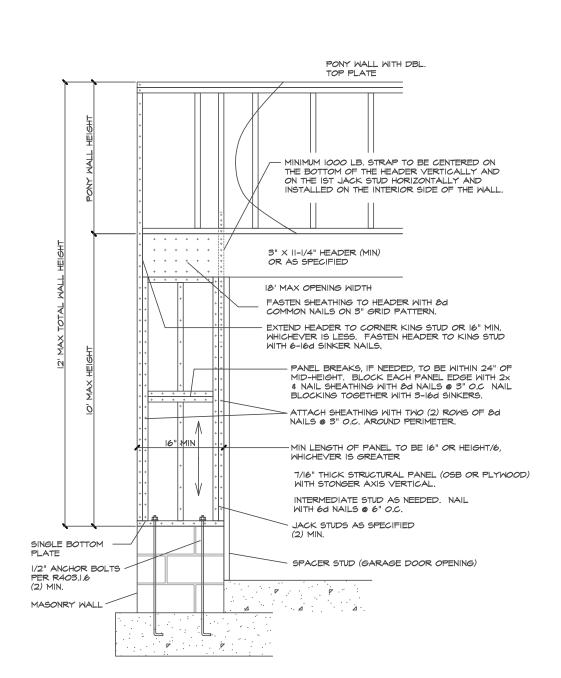
"SJ" = SINGLE JOIST

"DJ" = DOUBLE JOIST "TJ" = TRIPLE JOIST

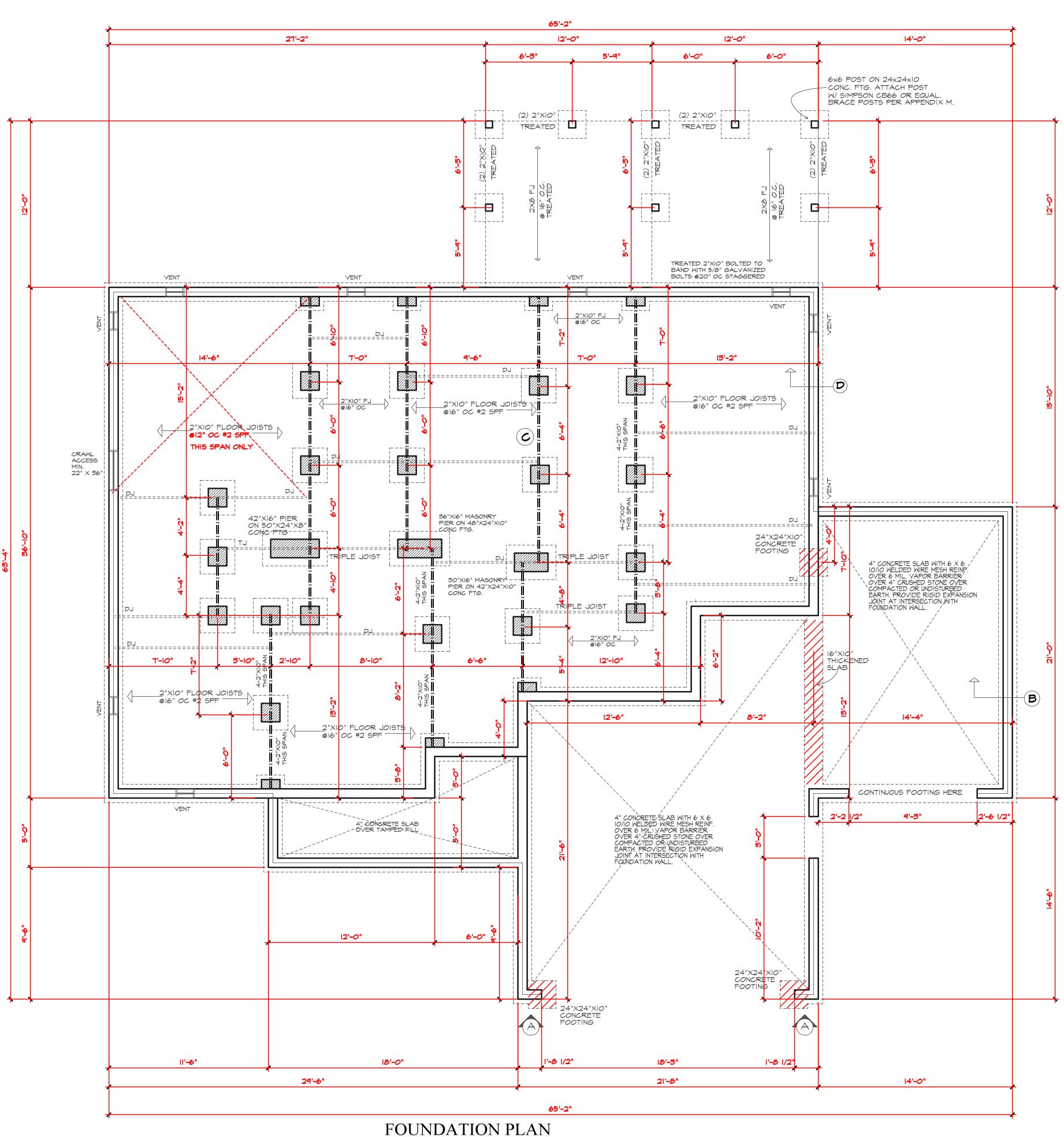
6 (4) 2 x IO SPF #2 GIRDER, TYPICAL UNO.

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P.E.TEAGUE, P.E., PLLC 2705 WATERLOO CT. NC 27613 PETEAGUE50@GMAIL.COM (919)247-2572 (Lic. #P-0207)







SCALE 1/4" = 1'-0"

MIDTOWN DESIGNS

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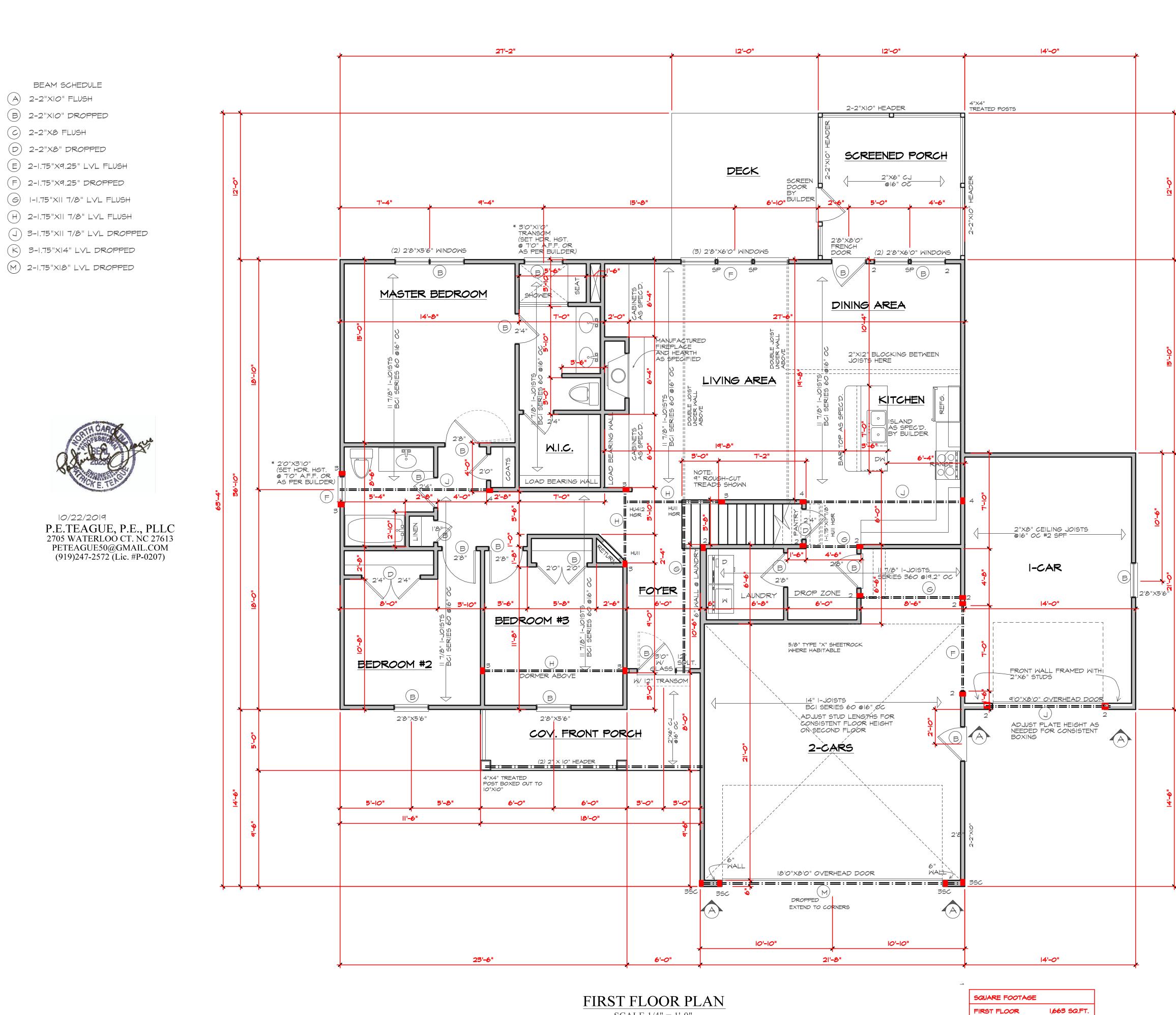
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SCALE 1/4" = 1'-0"

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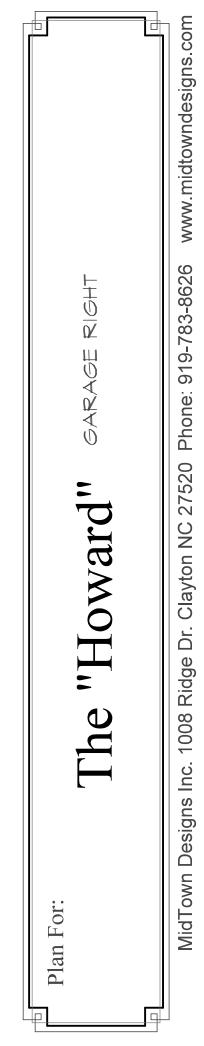
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328 SQ.FT. 1,991 SQ.FT.

831 SQ.FT.

108 SQ.FT.

144 SQ.FT. 144 SQ.FT.

TOTAL

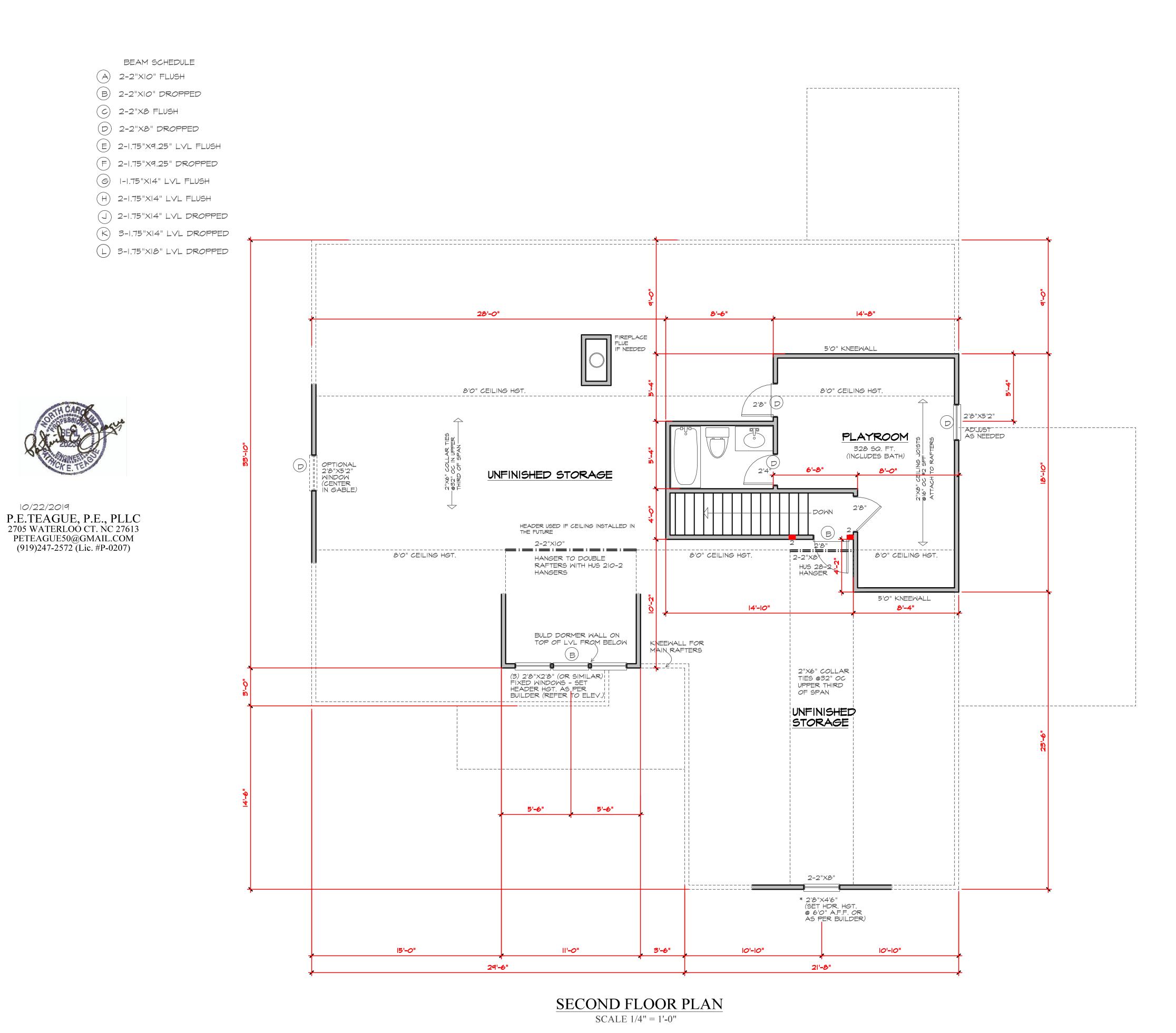
GARAGES

FRONT PORCH

SCREENED PORCH

PROJECT #

191007



10/22/2019

DESIGNS

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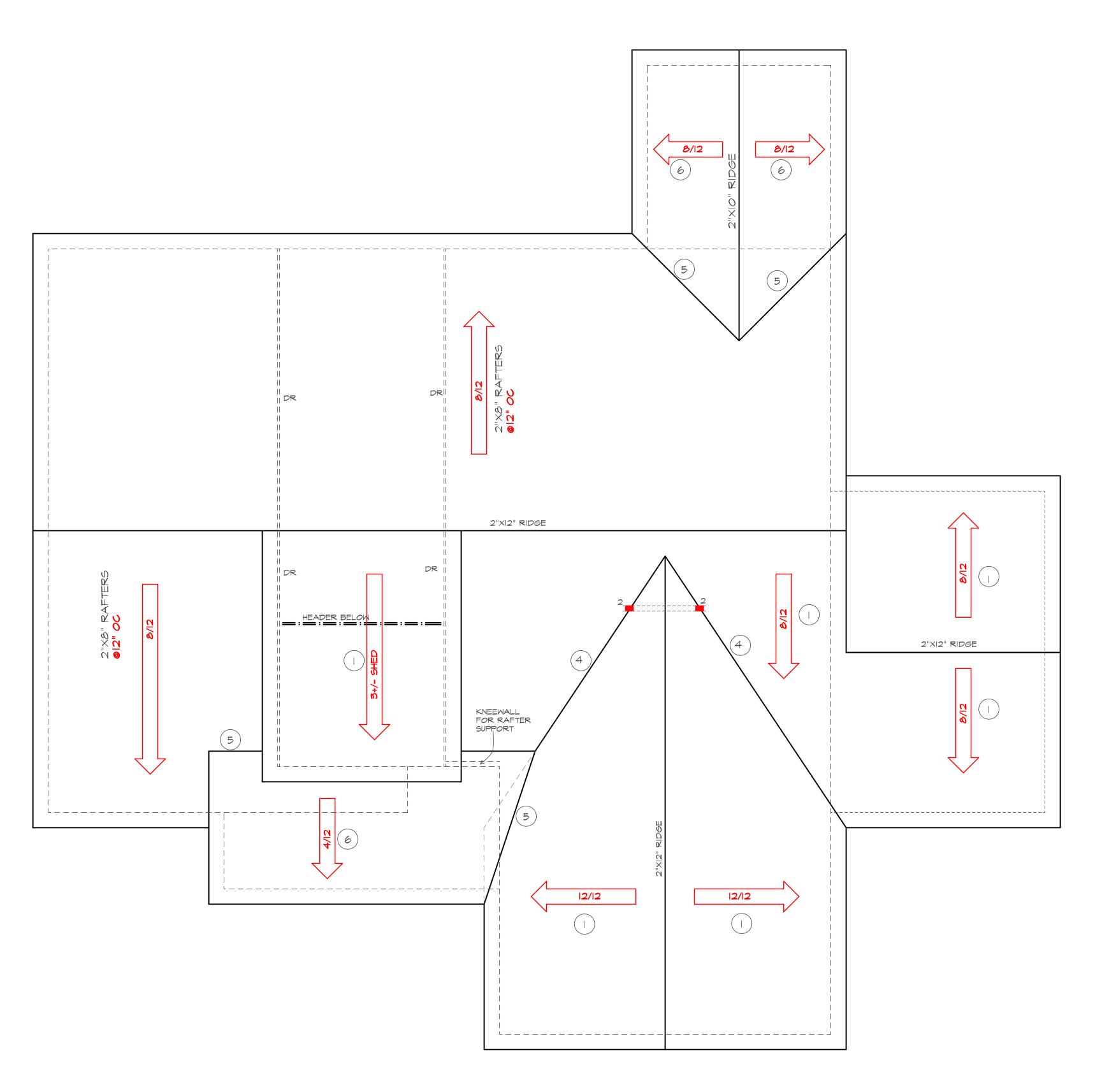
PROJECT #

ROOF FRAMING NOTES:

- 1. ALL RAFTERS TO BE 2x8 @ 16" O.C. WITH
- 2 X 12 RIDGE, UNO. (2.) (2)2x10 OR 1.75"XII 7/8" LVL HIP. HIPS MAY BE SPLICED WITH A MINIMUM 6'-0" OVERLAP AT CENTER.
- 3. (2)2x10 OR 1.75"X9.25"VALLEY. DO NOT SPLICE VALLEYS
- (4.) 1.75×11 7/8" LVL VALLEY
- (5.) FALSE FRAME VALLEY ON 2XIO FLAT PLATE
- (6.) 2"X6" RAFTERS @ 16" OC WITH 2"X10" RIDGE
- (7.) 2"XIO" RAFTERS @ 16" OC WITH 2"XI2" RIDGE
- "SR" = SINGLE RAFTER
- "DR" = DOUBLE RAFTER
- "TR" = TRIPLE RAFTER
- "RS" = ROOF SUPPORT FOR RAFTER SUPPORT - " \square = (3) STUD OR 4×4 POST FOR ROOF SUPPORT
- FIR DOWN 2x8 RAFTERS OR USE 2x10 AT
- CATHEDRAL CEILINGS
- ATTACH VAULTED RAFTERS WITH HURRICANE CLIPS: SIMPSON "H-5" OR EQUIVALENT
- 2"X6" COLLAR TIES @32" OC IN UPPER THIRD OF SPAN TYPCIAL



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ROOF PLAN
SCALE 1/4" = 1'-0"



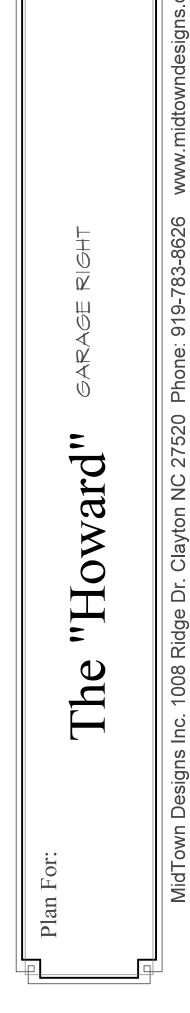
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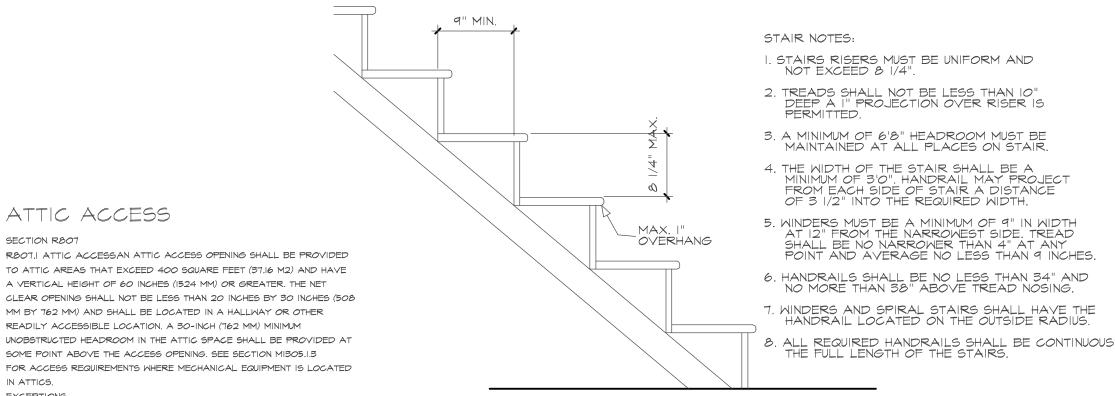
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TO ATTIC AREAS THAT EXCEED 400 SQUARE FEET (37.16 M2) AND HAVE A VERTICAL HEIGHT OF 60 INCHES (1524 MM) OR GREATER. THE NET CLEAR OPENING SHALL NOT BE LESS THAN 20 INCHES BY 30 INCHES (508 MM BY 762 MM) AND SHALL BE LOCATED IN A HALLWAY OR OTHER READILY ACCESSIBLE LOCATION. A 30-INCH (762 MM) MINIMUM UNOBSTRUCTED HEADROOM IN THE ATTIC SPACE SHALL BE PROVIDED AT

FOR ACCESS REQUIREMENTS WHERE MECHANICAL EQUIPMENT IS LOCATED EXCEPTIONS: I. CONCEALED AREAS NOT LOCATED OVER THE MAIN STRUCTURE INCLUDING

PORCHES, AREAS BEHIND KNEE WALLS, DORMERS, BAY WINDOWS, ETC.

ARE NOT REQUIRED TO HAVE ACCESS. 2. PULL DOWN STAIR TREADS, STRINGERS, HANDRAILS, AND HARDWARE MAY PROTRUDE INTO THE NET CLEAR OPENING.

STAIR DETAIL

PERMITTED.

POINT AND AVERAGE NO LESS THAN 9 INCHES.

/ FLOOR JOIST / AS SPECIFIED

8" SOLID —

/FLØOR/JQIST

2 X 2 LEDGER

STRIPS OR

HANGERS

PIER SIZE AS

SPECIFIED

(AS SPECIFIED)

MASONRY CAP

(3) 2 X 10 GIRDER

(3)/2 X/10 GIRDER

UNLESS NOTED

OTHERWISE

- 2 X 6 TREATED

SILL PLATE

MASONRY CAP

CONCRETE FOOTING

AS SPECIFIED SET

FOOTING BELOW

THE FROST LINE

SILL PLATE

DROPPED/ FLUSH PIER

SCALE 3/4" = 1'-0"

UNLESS NOTED

OTHERWISE

2 X 6 TREATED

NO SCALE

DWELLING / GARAGE SEPARATION

REFER TO SECTIONS R302.5, R302.6, AND R302.7 FLOOR/CEILING ASSEMBLIES USED FOR SEPARATION REQUIRED BY THIS SECTION.

CEILINGS. A MINIMUM OF 1/2" GYPSUM MUST BE INSTALLED ON THE GARAGE CEILING IF THERE ARE NO HABITABLE ROOM ABOVE THE GARAGE. IF THERE ARE HABITABLE ROOM ABOVE THE GARAGE A MINIMUM OF 5/8" TYPE X GYPSUM BOARD MUST BE INSTALLED ON THE GARAGE CEILING. OPENING PENETRATIONS. OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN I 3/8 INCHES (35 MM) IN THICKNESS, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN I 3/8 INCHES (35 MM) THICK, OR 20-MINUTE

DUCT PENETRATIONS. DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS OR CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAGE (0.48 MM) SHEET STEEL OR OTHER APPROVED MATERIAL AND SHALL HAVE NO OPENINGS

OTHER PENETRATIONS. PENETRATIONS THROUGH THE SEPARATION REQUIRED IN SECTION R302.6 SHALL BE PROTECTED AS REQUIRED BY SECTION R302.11, ITEM 4.

WALLS. A MINIMUM I/2" GYPSUM BOARD MUST BE INSTALLED ON ALL WALLS SUPPORTING STAIRS. A MINIMUM OF 1/2" GYPSUM BOARD MUST BE INSTALLED ON THE UNDERSIDE AND EXPOSED SIDES OF ALL STAIRWAYS.

DECK BRACING

SECTION AMIO9 AMIO9.1 DECK BRACING. DECKS SHALL BE BRACED TO PROVIDE LATERAL STABILITY. THE FOLLOWING ARE ACCEPTABLE MEANS TO PROVIDE LATERAL STABILITY. AMIO9.I.I. WHEN THE DECK FLOOR HEIGHT IS LESS THAN 4'-O"

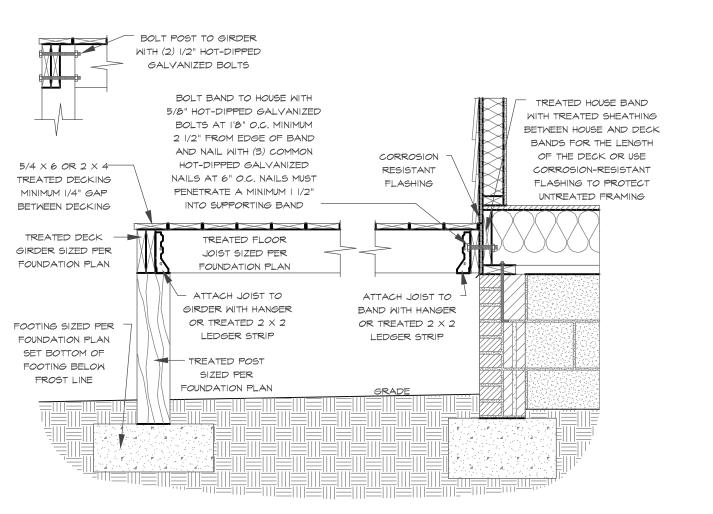
ABOVE FINISHED GRADE PER FIGURE AMIO9 AND THE DECK IS ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION AMIO4, LATERAL BRACING IS NOT REQUIRED. AMIO9.1.2. 4 X 4 WOOD KNEE BRACES MAY BE PROVIDED ON EACH COLUMN IN BOTH DIRECTIONS. THE KNEE BRACES SHALL

ATTACH TO EACH POST AT A POINT NOT LESS THAN 1/3 OF THE POST LENGTH FROM THE TOP OF THE POST, AND THE BRACES SHALL BE ANGLED BETWEEN 45 DEGREES AND 60 DEGREES FROM THE HORIZONTAL. KNEE BRACES SHALL BE BOLTED TO THE POST AND THE GIRDER/DOUBLE BAND WITH ONE 5/8 INCH HOT DIPPED GALVANIZED BOLT WITH NUT AND WASHER AT BOTH ENDS OF THE BRACE PER FIGURE AMIO9.I AMIO9.1.3. FOR FREESTANDING DECKS WITHOUT KNEE BRACES OR

DIAGONAL BRACING, LATERAL STABILITY MAY BE PROVIDED BY EMBEDDING THE POST IN ACCORDANCE WITH FIGURE AMIO9.2

D THE FO	LLOWING:				
POST SIZE	MAX TRIBUTARY AREA	MAX. POST HEIGHT	EMBEDMENT DEPTH	CONCRETE DIAMETER	
4 × 4	48 SF	4'-0"	2'-6"	1'-0"	
6 × 6	120 SF	6'-0"	3'-6"	1'-8"	

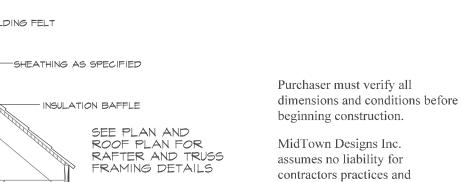
AMIO9.1.4. 2 X 6 DIAGONAL VERTICAL CROSS BRACING MAY BE PROVIDED IN TWO PERPENDICULAR DIRECTIONS FOR FREESTANDING DECKS OR PARALLEL TO THE STRUCTURE AT THE EXTERIOR COLUMN LINE FOR ATTACHED DECKS. THE 2 X 6S SHALL BE ATTACHED TO THE POSTS WITH ONE 5/8 INCH HOT DIPPED GALVANIZED BOLT WITH NUT AND WASHER AT EACH END OF EACH BRACING MEMBER PER FIGURE AMIO9.3. AMIO9.1.5. FOR EMBEDMENT OF PILES IN COASTAL REGIONS, SEE CHAPTER 45.



DECK ATTACHMENT DETAIL TO FRAMED WALL SCALE 3/4" TO 1'-0"

2" X 4" STUDS SUBFLOOR -BAND -TREATED SILL 8" SOLID MASONRY CAP J/2" DIA. ANCHOR BOLTS @ 6'-0" O.C. AND WITHIN 12" OF PLATE ENDS 4" BRICK — (EMBED 7") 4" CMU----FINISH GRADE SEE FOUNDATION PLAN FOR FOOTING SIZE

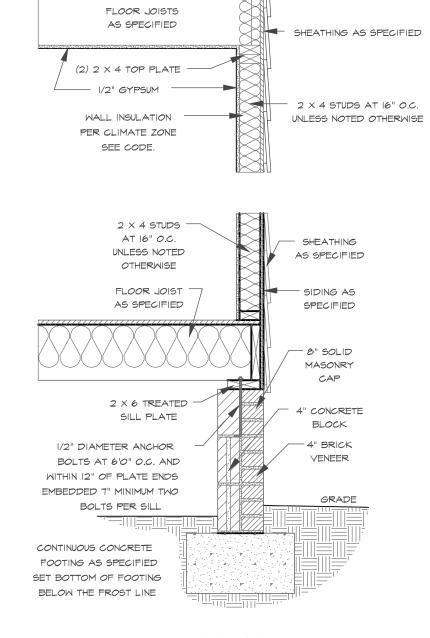
(D) SECTION AT CRAWL



MidTown Designs Inc. (2) 2 X 4 TOP PLATE assumes no liability for contractors practices and — 1/2" GYPSUM procedures X & FASCIA WALL INSULATION These drawings are instruments PER CLIMATE ZONE of service and as such shall SEE CODE. - SOFFIT VENTING remain property of the designer

OPTIONAL I X 4 FRIEZE

(C) Copyright 2017 MidTown Designs Inc. All Rights Reserved 2 X 4 SOLE PLATE SIDING AS SPECIFIED



PITCH PER ROOF PLAN OR ELEVATIONS

ROOF INSULATION PER CLIMATE ZONE

SEE CODE

3/4" SUBFLOOR -

SHINGLES AS SPECIFIED

-15# BUILDING FELT

WALL SECTION

SCALE 3/4" = 1'-0"

THIS PLAN DESIGNED UNDER NORTH CAROLINA

RESIDENTIAL CODE 2018 EDITION (2015 IRC)

HOUSE DESIGNED FOR 115 or 120 MPH EXPOSURE B

ANCHOR BOLTS SHALL BE MINIMUM 1/2" DIAMETER & SHALL EXTEND A MINIMUM OF 7" INTO MASONRY OR CONCRETE. ANCHOR BOLTS TO BE NO MORE THAN 6' ON CENTER AND WITHIN 12" OF ALL CORNERS. THERE SHALL BE A MINIMUM OF TWO (2) ANCHOR BOLTS PER PLATE SECTION. MINIMUM VALUES FOR ENERGY COMPLIANCE ZONE 4A, \$ 3. VERIFY ZONE BEFORE CONSTRUCTION

TABLE R402.1.4

	EQUIVALENT U-FACTORS												
	CLIMATE ZONE	FENESTRATION U-FACTOR ^d	SKYLIGHT <i>U-</i> FACTOR	CEILING U-FACTOR	FRAME WALL U-FACTOR	MASS WALL U-FACTOR ^b	FLOOR U-FACTOR	BASEMENT WALL U-FACTOR	CRAWL SPACE WALL U-FACTOR				
	3	0.35	0.55	0.030	<u>0.077</u>	<u>0.141</u>	0.047	0.091°	0.136				
Ī	4	0.35	0.55	0.030	<u>0.077</u>	<u>0.141</u>	0.047	0.059	0.065				
I	5	<u>0.35</u>	0.55	0.030	<u>0.061</u>	0.082	0.033	<u>0.059</u>	0.065				

a. Nonfenestration *U*-factors shall be obtained from measurement, calculation or an approved source. b. When more than half the insulation is on the interior, the mass wall *U*-factors shall be a maximum of <u>0.07</u> in Climate Zone 3, <u>0.07</u> in Climate Zone 4 and <u>0.054</u>

substituted maximum *U*-value requirement and maximum SHGC requirement, as applicable.

- in Climate Zone 5. c. Basement wall *U*-factor of 0.360 in warm-humid locations as defined by Figure R301.1 and Table R301.1.
- d. A maximum of two glazed fenestration product assemblies having a U-factor no greater than 0.55 and a SHGC no greater than 0.70 shall be permitted to be substituted for minimum code compliant fenestration product assemblies without penalty. When applying this note and using the REScheck "UA Trade-off" compliance method to allow continued use of the software, the applicable fenestration products shall be modeled as meeting the U-factor of 0.35 and the SHGC of 0.30, as applicable, but the fenestration products actual U-factor and actual SHGC shall be noted in the comments section of the software for

documentation of application of this note to the applicable products. Compliance for these substitute products shall be verified compared to the allowed

1/16/2019



1/2" DIA. ANCHOR BOLTS @ 6'-0" O.C. AND WITHIN 12" OF PLATE ENDS (EMBED 7") TREATED SILL PLATE EXPANSION JOINT 8" SOLID CAP 4" CONC. SLAB WITH FIBERMESH OR 4" BRICK WIREMESH ON 6 MIL. VAPOR BARRIER ON 4" CRUSHED STONE 4" CMU GARAGE SLAB SLOPE PER CODE GRADE T 8" FOUNDATION WALL

STRUCTURAL NOTES

BUILDING CODE.

END OF THE PUMP.

MANUFACTURER'S INSTRUCTIONS.

STEEL TUBING SHALL BE ASTM A500.

LOCATED AT 6" FROM EACH END.

SEE R301.2(6)

PLUS ALL LOCAL CODES AND REGULATIONS.

2) DESIGN LOADS SEE TABLE R301.5

WIND SPEED: (REFER TO TABLE R301.2.4)

VERIFY ZONE BEFORE CONSTRUCTION.

ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND

I) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION (2015 IRC),

BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE

3) WALL BRACING: WALLS SHALL BE BRACED ALONG BRACED WALL LINES ACCORDING TO SECTION R602.10. THE AMOUNT, LOCATION, AND CONSTRUCTION

THE PLANS IS BASED ON THE PRESCRIPTIVE BRACING REQUIREMENTS OF THE CODE AND SHALL BE VERIFIED AND/ORAPPROVED BY THE CODE OFFICIAL.

4) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A

MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIT ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED AND PLACED IN ACCORDANCE WITH ACI

STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT

5) ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE

PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO

6) ALL FRAMING LUMBER SHALL BE SPF #2(FB = 875 PSI) UNLESS NOTED

OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP #2 (FB=975 PSI). PLATE MATERIAL MAY BE SPF #3 OR SYP #3 (FC(PERP) = 425 PSI - MIN).

7) ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (I) 2×4 STUD COLUMN FOR 6'-0'' MAX. BEAM SPAN (UNO), (2) 2×4 STUDS FOR BEAM SPAN GREATER THAN 6'-0'' (UNO).

8) L.V.L SHALL BE LAMINATED VENEER LUMBER: FB=2600 PSI, FV=285 PSI, E=1,900,000 PSI. P.S.L SHALL BE PARALLEL STRAND LUMBER: FB=2900 PSI, FV=290 PSI, E=2,000,000 PSI. L.S.L SHALL BE LAMINATED STRAND LUMBER:

FB=2250 PSI, FV=400 PSI, E=1,550,000 PSI. INSTALL ALL CONNECTIONS PER

9) ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN

ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND

-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S

SCREWS (1/2" DIAMETER X 4" LONG). LATERAL SUPORT IS CONSIDERED

12) FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2"

II) REBAR SHALL BE DEFORMED STEEL. ASTM615, GRADE 60.

IO) ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO

FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG

ADEQUATE PROVIDED THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C. ALL

DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED UNDER THE THREADEI

END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX). AND STAGGERED

13) BRICK LINTELS SHALL BE 3 1/2"X3 1/2"X1/4" STEEL ANGLE FOR UP TO 6'-0"

SPAN AND 6"X4"X5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO

14) THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS

AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS

DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.

CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED.

OF BRACING SHALL COMPLY WITH R602.10. NOTE THAT THE BRACING SHOWN ON

(B) SECTION AT GARAGE SLAB

SEE FOUNDATION PLAN

FOR FOOTING SIZE