

* Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution.

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TYNDALL IGINEERING & DESIGN, P.A.



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Project #:

2201-010205

Date:
05/31/22

Engineered By:
AM

DWG. Checked By:
PTII

Scale:
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Sheet Number

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DESIGN LOADS LIVE LOAD (PSF) FLOOR (primary) ATTIC (w/ storage) BRACING PANEL LENGTHS REQUIRED: BWL A = 5.7 FT BWL B = 5.7 FT BWL 1 = 5.2 FT BWL 2 = 5.2 FT ROOF TRUS WIND LOAD BASED ON 120 MPH (EXPOSURE B) BRACING PANEL LENGTHS PROVIDED: BWL A = 40.8 FT CS-WSP BWL B = 35.3 FT CS-WSP BWL 1 = 22.8 FT CS-WSP BWL 2 = 20.2 FT CS-WSP SFISMIC BASED ON SEISMIC ZONES A. B & C. STRUCTURAL NOTES: 1) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS ALL CONSTRUCTION SHALL COMFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGIREERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS WAS DEVELORED CONTRACTORD RESPONSIBLE FOR DIMENSIONS. AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS. ALL LUMBER SHALL BE SYP #2 (UNO) 3) ALL LUMBERT OB E1.75" WIDE NOMINAL EACH SINGLE MEMBER AND FD = 2600 PSI, E = 1.9M PSI (I.E. ILEVEL MICROLLAM) ILEVEL MICROLLAM) BWL 1 ALL LLAS LUMBER IS TO BE 1.55E (Fb = 2325 PSI). ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2×10 w (1) 2×4 JACK STUD (LI N.O.) AND KING STUDS PER TABLE R602.7.5, AND TOGETHER W (2) 161 ANLS @ 8° 0.C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6-8°, MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1-6°, OTHERWISE REFER TO TABLES R602 (7) AND R602.7°, (2) ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2×10 (U.N.O.) REFER TOTABLES R602 3/10 AND BEODO 7/10 CFD (MC STIP) REFUNDEMENTS MIN. 7" HEEL DEPTH AT INSIDE EDGE OF WALL EACH END IF BEAM IS TAPERED AT SUPPORTS TO TABLES R602.7(1) AND R602.7(2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNO) GEFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL WALLS OVER 10°.0° IN HEIGHT. ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50 Fy = 50 KSI MIN (UNO) ALL EXTERIOR LUMBER TO BE #2 SYP PT ALL CONCRETE, fc = 3000 PSI MIN. PRESUMPTIVE BEARING CAPACITY = 2000 PSF PRESUMPTIVE BEARING CAPACITY = 2000 PSF 1/2"Ø ANCHOR BOLTS SPACED AT MAXIMUM OF 6-0" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR PSI COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO) PROVIDE A MINIMUM OF SOM UPLIET & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018 MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION. 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL. STRUCTURAL SHEATHING NOTES 1) DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR LESS. WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE 2018 NCRC. BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3. REFER TO SECTION R602.10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS. GIRDER TRUSS PER MANUE 1 REFERENCE FIGURE R602.10.4.3 OF THE 2018 NCRC. 4) INTERIOR BRACED WALL PANELS (BWP) INDICATED SHALL BE SHEATHED PER MANUFACTURER IN ACCORDANCE WITH THE GB METHOD OR WSP METHOD AS PRESCRIBED IN SECTION R602.10.1 (UNO) (2)2 X 10 BAND, TYP. 2) 1/2" GYPSUM BOARD (GB) MINIMUM LENGTH OF 8'-0" (ISOLATED PANELS) OR 4'-0" (CONTINUOUS SHEATHING). SECURE w/ 5d COOLER NAILS (OR EQUAL PER TABLE R702.3.5) SPACED @ 7" O.C. AT PANEL EDGES, INCLUDING TOP AND ROOF TRUSSES BOTTOM PLATES & 7" O.C. AT INTERMEDIATE SUPPORTS PER MANUFACTURES 3) 3/6" WOOD STRUCTURAL PANEL (WSP) SECURE w/ 6d COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS 5) EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R602.10.3 (UNO) ALL SHEATHABLE SURFACES OF EXTERIOR WALLS (INCLUDING AREAS (2)11-7/8" LVL (PORTAL FRAME PER DETAIL B2 / SHEET D3) BWL 2 ABOVE AND BELOW OPENINGS AND GABLE END WALLS) SHALL BE CONTINUOUSLY SHEATHED WITH WOOD STRUCTURAL PANEL (WSP) SHEATHING WITH A MINIMUM THICKNESS OF 3/8". SHEATHING SHALL BE SHAL HING WITH A MINIMUM I HICKNESS OF 30° SHEA HING SHALL BE SECURED WITH MINIMUM 60 COMMON NALIS SPACED AT 6° O.C. AT PANEL EDGES AND SPACED AT 12° O.C. AT INTERMEDIATE SUPPORTS. MINIMUM BRACED WALL PANEL LENGTHS WITH CS-WSP METHOD SHALL BE AS FOLLOWS: - 24" ADJACENT TO OPENINGS NOT MORE THAN 67% OF WALL HEIGHT - 30" ADJACENT TO OPENINGS GREATER THAN 270" ADJACENT TO OPENINGS OREATER THAN 270" ADJACENT TO OPENINGS OREATER THAN 270" ADJACENT TO OPENINGS OF MALL MICKLY THAN 270" ADJACENT TO OPENINGS OF MALL MICKLY THAN 270" ADJACENT TO OPENINGS OF THAN LICKLY THAN 270" ADJACENT TO OPENINGS OF THAN LICKLY THAN 270" ADJACENT TO OPENINGS OF THAN LICKLY THAN 270" ADJACENT THAN SEVEN THAN LICKLY THAN LICK - 30 ADJACENT TO OPENINGS GREATER THAN 67% AND LESS THAN 85% OF WALL HEIGHT. - 48" FOR OPENINGS GREATER THAN 85% OF WALL HEIGHT FIRST FLOOR PLAN 4 SHEATH INTERIOR & EXTERIOR **CEILING HGT. = 9'-0" (U.N.O.)** 8) FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER FOR CS-WSP METHOD, A MINIMUM 24 'BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED TAT BOTH ENDS OF A BRACED WALL LINE IN ACCORDANCE WITH FIGURE R602 10.3(4). IN LIEU OF A CORNER RETURN, EITHER A MIN. 45' BRACED WALL PANEL SHALL BE PROVIDED AT THE CORNER OR A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE EDGE OF THE BRACED. 1/8" = 1'-0" WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR 5 MINIMUM 800# HOLD-DOWN DEVICE

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TYNDALL ENGINEERING & DESIGN, P.A.



Plan: 65 REMINGTON HILL



Project #:
2201-010205

Date:
05/31/22

Engineered By:
AM

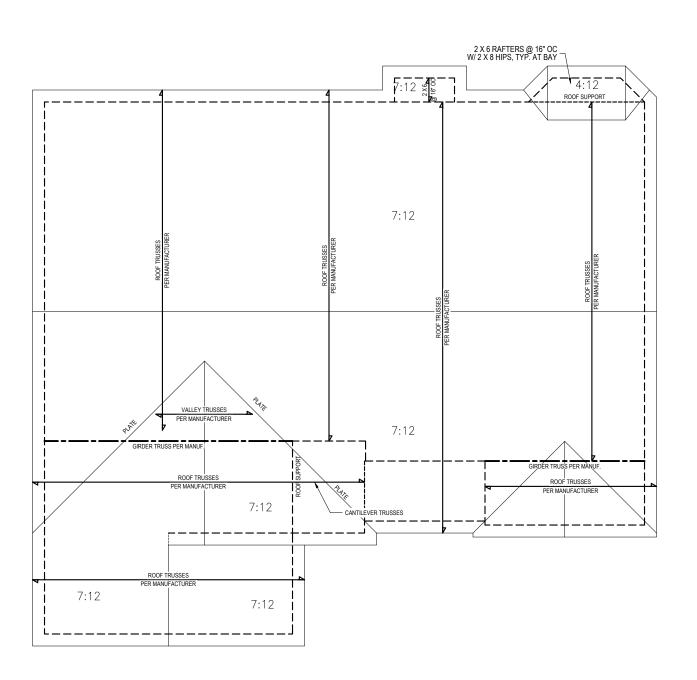
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1950 SQ. FT. OF ATTIC / 300 = 6.5 SQ. FT. INLETS/OUTLETS REQUIRED

* ATTIC VENTILATION CALCULATION

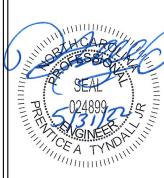
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Date: 05/31/22 Engineered By: DWG. Checked By: Scale: SEE PLAN

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Sheet Number

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ROOF PLAN

1/8" = 1'-0"

STRUCTURAL NOTES

ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.

2) DESIGN LOADS:

| | LIVE LOAD (PSF) | DEAD LOAD (PSF) | DEFLECTION | | |
|---------------------------|-------------------------------|--------------------|------------|-------|--|
| | (- / | (- / | LL | TL | |
| ALL FLOORS | 40 | 10 | L/360 | L/240 | |
| ATTIC (w/ walk up stairs) | 30 | 10 | L/360 | L/240 | |
| ATTIC (pull down access) | 20 | 10 | L/240 | L/180 | |
| ATTIC (no access) | 10 | 5 | L/240 | L/180 | |
| EXTERNAL BALCONY | 40 | 10 | L/360 | L/240 | |
| ROOF | 20 | 10 | L/240 | L/180 | |
| ROOF TRUSS | 20 | 20 | L/240 | L/180 | |
| WIND LOAD | BASED ON 120 MPH (EXPOSURE B) | | | | |
| SEISMIC | SEISMIC ZONES A, B & C | | | | |

- MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF
- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF FIVE INCHES
- MAXIMUM DEPTH OF UNBALANCED FILL AGAINST FOUNDATION WALLS TO BE LESS THAN 4-0° WITHOUT USING SUFFICIENT WALL BRACING. REFER TO SECTION R404 OF 2018 NC BUILDING CODE FOR BACKFILL LIMITATIONS BASED ON WALL HEIGHT, WALL THICKNESS, SOIL TYPE, AND UNBALANCED BACKFILL HEIGHT.
- ALL FRAMING LUMBER SHALL BE SYP #2 (Fb = 800 PSL BASED ON 2x10) UNO. ALL Framino Lumber synches to $T_{\rm c}$ ($T_{\rm c}$ = 0.00 ps.) and subset division from 10 mJ. ALL Framino Lumber exposes to $T_{\rm c}$ the elements shall be treated material. ALL IV. Lumber to be 1.75° wide nominal each single member and $T_{\rm c}$ to $T_{\rm c}$ = 1.9 m ps. (U.N.O.) ALL ISL Lumber To be 3.0° be nominal each single member and $T_{\rm c}$ = 225 ps., E = 1.9 m ps. (U.N.O.) ALL PSL Lumber TO be 3.5° wide nominal each single member and $T_{\rm c}$ = 2400 ps., E = 1.8 m ps. (U.N.O.)
- ALL LOAD BEARING EXTERIOR HEADERS SHALL BE AT (2) 2x10. (U.N.O.) REFER TO TABLE R602.7(1) & (2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS UNLESS SPECIFICALLY NOTED ON PLANS.
- ALL STRUCTURAL STEEL W-SHAPES (I-BEAMS) SHALL BE ASTM A992 GRADE 50. ALL STEEL ANGLES, PLATES, AND C-CHANNELS SHALL BE ASTM A36.
- STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3-1/2" AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO (2) LAG SCREWS (1/2"/0 x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDED THE JOISTS ARE TOE NAILED TO THE SOLE PLATES, AND THE SOLE PLATES ARE NAILED OR BOLTED TO THE BEAM FLANGES @ 48" O.C.
- PROVIDE ANCHOR BOLT PLACEMENT PER SECTION 403.1.6: 1/2"Ø ANCHOR BOLTS SPACED AT 6'-0" O.C. AND PLACED 12" FROM THE END OF EACH PLATE SECTION ANCHOR BOLTS SHALL BE SPACED AT 3"O O.C. FOR BASHMENTS. ANCHOR BOLTS SHALL BE SPACED AT 3"O O.C. FOR BASHMENTS. ANCHOR BOLTS SHALL BE AND THE SHALL BE AND THE OF THE WIDTH OF THE PLATE. THERE SHALL BE A MINIMUM THYO ANCHOR BOLTS FER LATE SECTION.
- 11) FOUNDATION DRAINAGE-DAMP PROOFING OR WATERPROOFING PER SECTION 405 AND 406 OF NC BUILDING CODE.
- 12) WALL AND ROOF CLADDING VALUES:

WALL CLADDING SHALL BE DESIGNED FOR 28.0 POUNDS PER SQUARE FOOT (LBS/SQFT) OR GREATER POSITIVE AND NEGATIVE PRESSURE. ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE AS FOLLOWS: 39.0 LBS/SQFT FOR ROOP FITCHES 01/2 TO 15.1

18.0 LBS/SQFT FOR ROOF PITCHES 6/12
***MEAN ROOF HEIGHT 30'-0" OR LESS

- 13) FOR ROOF SLOPES FROM 2/12 THROUGH 4/12, BUILDER TO INSTALL 2 LAYERS OF 15# FELT PAPER.
- 14) REFER TO SECTION R602.3 FOR FRAMING OF ALL WALLS OVER 10'-0" IN HEIGHT
- PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.3 OF THE 2018 NCRC.
- 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.
- 17) REFER TO TABLE N1102.1 FOR PRESCRIPTIVE BUILDING ENVELOPE THERMAL COMPONENT CRITERIA.
- 18) PSI COLLIMNS DESIGNED WITH MAXIMUM HEIGHT OF 9'-0" (LLN O.)
- 19) PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
- 20) MAXIMUM MASONRY PEIR HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION
- 21) IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSION OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.

| CLIMATE ZONES | FENESTRATION U-FACTOR | SKYLIGHT ^b U-FACTOR | GLAZED FENESTRATION SHGC ^{b,k} | CEILING ^m R-VALUE | WOOD FRAMED WALL R-VALUE | MASS WALL R-VALUE | FLOOR R-VALUE | BASEMENT ^{C,Q} WALL R-VALUE | SLAB ^d R-VALUE AND DEPTH | CRAWL SPACE C WALL R-VALUE |
|------------------|--------------------------|-----------------------------------|---|---------------------------------|--------------------------------|-------------------------|------------------|--|---|----------------------------------|
| 3 | 0.35 | 0.55 | 0.30 | 38 or 30 | 15 or 13 + 2 5 h | 5/13 or 5/10 cont | 19 | <u>5/13</u> f | 0 | 5/13 |

| CLIMATE ZONES | FENESTRATION U-FACTOR | SKYLIGHT ^b U-FACTOR | FENESTRATION SHGC ^{b,k} | CEILING ^M R-VALUE | FRAMED WALL R-VALUE | WALL R-VALUE i | FLOOR R-VALUE | WALL R-VALUE | R-VALUE AND DEPTH | WALL R-VALUE |
|------------------|--------------------------|-----------------------------------|-------------------------------------|---------------------------------|------------------------------|---------------------------------|------------------|-----------------|----------------------|-----------------|
| 3 | 0.35 | 0.55 | 0.30 | 38 or 30 cont | 15 or 13 + 2.5 | 5/13 or 5/10 cont | 19 | <u>5/13</u> f | 0 | 5/13 |
| 4 | 0.35 | 0.55 | 0.30 | 38 or 30 cont j | 15 or 13 + <u>2.5</u> h | 5/13 or 5/10 cont | 19 | 10/15 | 10 | <u>10/15</u> |
| 5 | 0.35 | 0.55 | NR | 38 or 30 cont | n 19, or 13 + 5 or 15 + 3 | 13/17 <u>or</u> 13/12.5 cont | 30 ^g | 10/15 | 10 | 10/19 |

* TABLE N1102.1 CLIMATE ZONES 3-5

a. R-VALUES ARE MINIMUMS. U-FACTORS AND SHGC ARE MAXIMUMS. WHEN INSULATION IS INSTALLED IN A CAVITY WHICH IS LESS THAN THE LABEL OR DESIGN THICKNESS OF THE INSULATION, THE INSTALLED R-VALUE OF THE INSULATION SHALL NOT BE LESS THAN THE R-VALUE SPECIFIED IN THE TABLE.

- e. 10/15' MEANS R-10 CONTINUOUS INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME
- OR R.S. SANTY MISULATION AT THE INTERIOR OF THE BASSMANT WALL OR COMM. SPACE WALL

 OF RIM NONCTHIC SLASS, INSULATION SHALL BE APPLED FROM THE INSPECTION GAP DOWNMARD TO THE BOTTOM
 OF THE FOOTING OR A MAXIMUM OF 2° BELOW GRACE WHICHEVER IS LISS. FOR ICAMINIS SLASS, INSULATION
 SHALL DATEND TO THE BOTTOM OF THE FOUNDATION WALL OR 2°, WINDEWER'S LISS. R.S. SHALL BE
 ADDED TO THE REQUIRED SLAS BEOSE WALLES FOR HEATED SLASS.

- 4. DELETED

 1. BASEMENT WALL INSULATION IS NOT REQUIRED IN WARRAHUMD LOCATIONS AS DEFINED BY FIGURE N11017 AND TABLE N11017.
- g. OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY. R-19 MINIMUM.
- h. THE FIRST VALUE IS CAVITY INSULATION, THE SECOND VALUE IS CONTINUOUS INSULATION, SO "13+5" MEANS R-13 CAVITY INSULATION PLUS R-5 INSULATED SHEATHING "15-2" MEANS R-15 CAVITY NEULATION PLUS RA INSULATED INSCHAFFING "15-2" MEANS R-15 CAVITY NEULATION PLUS RA'S NEULATED INSULATION SHEATHING IS SHEATHING IS SHEATHING IS SHEATHING IS SHEATHING IS NOT RECURRED WHERE THE STRUCTURAL SHEATHING SHEATHING COVERS MORE THAN 25 FERCENT OF THE EXTEROR. SHALL BE SUPPLEMENTED WITH INSULATED SHEATHING OF AT LEAST R-2," "13 - 2.5" MEANS R-13 CAVITY INSULATION SHEATHING OF AT LEAST R-2," "13 - 2.5" MEANS R-13 CAVITY INSULATION SHEATHING OF THE EXTEROR.
- FOR MASS WALLS. THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF THE INSULATION IS ON THE INTERIOR MASS WAL
- I PUM MINS MILLS. I RE SECURIO N'APLUE MY PLES MITENIANCE INTO MELT IRESOLUTIONS ON IT ELL INCOME MANS MILL.

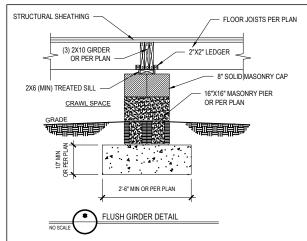
 IN ACCIONED TO DE SEMBRITION ESCURION INTO 23.4 AMONDMON OF TWO CALEEP DEFINATION PRODUCT ASSEMBLES HAWING A L'ACTOR NO GREATER THAN 8.55 SHALL SE
 PREMITTED TO SE SUBSTITUTED FOR MINIMAM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLES WITHOUT PENALTY.

 IN ACCIONED TO THE EXEMPTION IN SECURION 1923.3 AMONDMON O'TWO CALEEP DEFINATION PRODUCT ASSEMBLES HAWING A SHICE NO GREATER THAN 8.70 SHALL SE
 PREMITTED TO SE SUBSTITUTED FOR MINIMAM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLES HAWING A SHICE NO GREATER THAN 8.70 SHALL SE
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 PREMITTED TO SE SUBSTITUTED FOR MINIMAM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLES WITHOUT PENALTY.
- LR36 SHALL BE CEEMED TO SATISTY THE CEILING INSULATION REQUIREMENT WHEREVER THE PULL HEIGHT OF UNCOMPRESSED INSULATION RETENDS OVER THE WALL TO PLATE AT THE EAVES OTHERWISE IS IN SOLATION BAFFLE OR WITHIN TAKE OF THE HATE. OF THE WATER BOOK DEED, AND THE ATTER BOOK DEED, AND THE ATTER BOOK DEED.
- THE NUMBER OF SEASON OF THE NUMBER OF THE SPACE IS LIMITED BY THE PITCH OF THE ROOF, THERE THE INSULATION MUST FILL THE SPACE UP TO THE AIR BAFFLE.

 8. R-19 REPREGASS BATTS COMPRESSED AND INSTALLE ON A NORMAL 2 + 5 FRAINING CAVITY IS DEEMED TO COMPLY. FEETIGLASS BATTS RATED R-19 OR HIGHER COMPRESSED
 AND INSTALLED IN A 2W WALL SNOT DEEMED TO COMPLY.
- MASS WALL SPECIFIC HEAT CONTENT REQUIREMENT MAY USE THE MASS WALL R-VALUE AS THE MINIMUM REQUIREMENT.

DEFINITIONS FOR COMMON ABBREVIATIONS

| CANT | = | CANTILEVER | MIN | = | MINIMUM |
|-------|---|-----------------------|-------|---|------------------------|
| CJ | = | CEILING JOIST | NOM | = | NOMINAL |
| CMU | = | CONCRETE MASONRY UNIT | O.C. | = | ON CENTER |
| COL | = | COLUMN | PL | = | POINT LOAD |
| CONC | = | CONCRETE | PT | = | PRESSURE TREATED |
| CONT | = | CONTINUOUS | REINF | = | REINFORCED |
| CT | = | COLLAR TIE | REQD | = | REQUIRED |
| DBL | = | DOUBLE | RJ | = | ROOF JOIST |
| DIA | = | DIAMETER | RS | = | ROOF SUPPORT |
| DJ | = | DOUBLE JOIST | SC | = | STUD COLUMN |
| DR | = | DOUBLE RAFTER | SCH | = | SCHEDULE |
| EA | = | EACH | SPEC | = | SPECIFIED |
| EE | = | EACH END | THK | = | THICK |
| FJ | = | FLOOR JOIST | TJ | = | TRIPLE JOIST |
| FND | = | FOUNDATION | TRTD | = | TREATED |
| FTG | = | FOOTING | TYP | = | TYPICAL |
| GALV | = | GALVANIZED | UNO | = | UNLESS NOTED OTHERWISE |
| HORIZ | = | HORIZONTAL | W | = | WIDE FLANGE BEAM |
| HT | = | HEIGHT | WWF | = | WELDED WIRE FABRIC |
| MANUF | = | MANUFACTURER | XJ | = | EXTRA JOIST |
| | | | | | |



MAXIMUM HEIGHT OF DECK SUPPORT POSTS AS FOLLOWS

| POST SIZE | MAX. POST HEIGHT** |
|-----------|--------------------|
| 4 x 4 | 8'-0" |
| 6 x 6 | 20'-0" |
| *** | OVER 20'-0" |

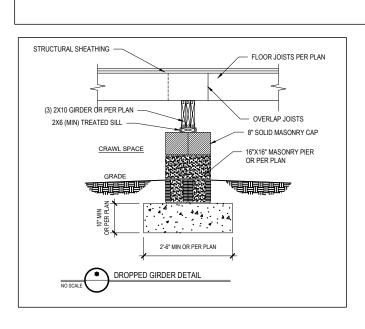
- THIS TABLE IS BASED ON NO. 2 TREATED SOUTHERN PINE POSTS.

 MAXIMUM TRIBUTARY AREA IS BASED ON 128 TOTAL SQUARE FEET WHICH MAY BE LOCATED AT DIFFERENT LEVELS. FROM TOP OF FOOTING TO BOTTOM OF GIRDER
- DECKS WITH POST HEIGHTS OVER 20'-0" SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.
- DECKS SHALL BE BRACED TO PROVIDE LATERAL STABILITY BY ONE OF THESE METHODS:
- THE DECK FLOOR HEIGHT IS LESS THAN 4'-0" AND THE DECK IS ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION (4)
- ABOVE LATERAL BRACING IS NOT REQUIRED. ABOVE LATERAL BRACING IS NOT REQUIRED
 A 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 1/30 OF THE POST LENGTH FROM THE
 TOP OF THE POST, AND THE BRACES SHALL BE ANGLED BETWEEN
 45° AND 60° FROM THE HORIZONTAL KNEE BRACES SHALL BE DUTED
 TO THE POST AND GIRDER WITH ONE 5/8"09 HOT DIPPED GALVANIZED
 BUT A ET EACH END IO THE BRACE
- BOLT AT EACH END OF THE BRACE.
 C. FOR FREESTANDING DECKS WITHOUT KNEE BRACES OR DIAGONAL BRACING, LATERAL STABILITY MAY BE PROVIDED BY EMBEDDING THE POSTS IN ACCORDANCE WITH THE FOLLOWING:

| POST SIZE | MAX. TRIBUTARY AREA | MAX. POST HEIGHT | EMBEDMENT DEPTH | CONCRETE DIAMETER |
|-----------|------------------------|---------------------|--------------------|----------------------|
| 4 x 4 | 48 SQ. FT. | 4'-0" | 2'-6" | 1'-0" |
| 6 x 6 | 120 SQ. FT. | 6'-0" | 3'-6" | 1'-8" |

2 x 6 DIAGONAL VERTICAL CROSS BRACING MAY BE PROVIDED IN TWO
(2) PERPENDICULAR DIRECTIONS FOR FREESTANDING DECKS OR PARALLEL
TO THE STRUCTURE AT THE EXTERIOR COLLIMIN LINE FOR ATTACHED DECKS.
THE 2 x 6s SHALL BE ATTACHED TO THE POSTS WITH ONE 56°0 HOT

DIPPED GALVANIZED BOLT AT EACH END OF EACH BRACING MEMBER. E. FOR EMBEDMENT OF PILES IN COASTAL REGIONS, SEE CHAPTER 46.



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& Design, P.A. liability. Please review these documents carefully Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommen etc. presented in these documents were





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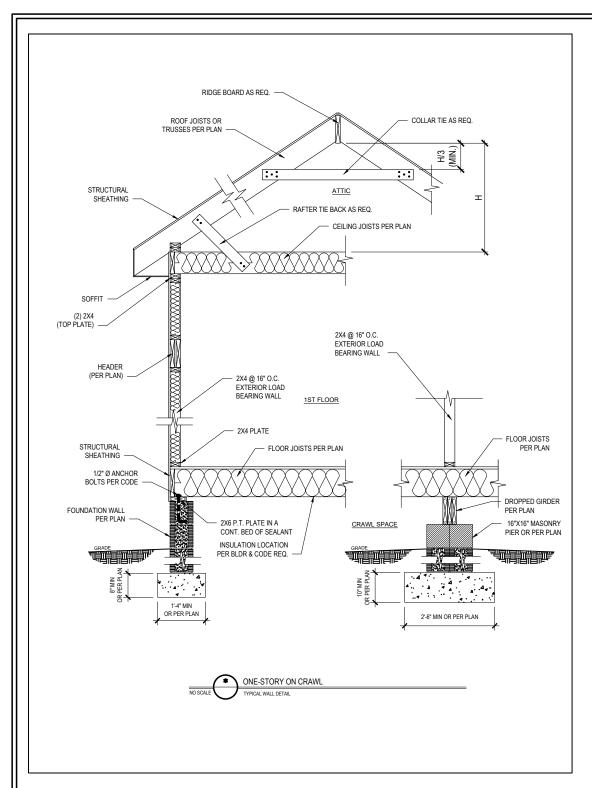


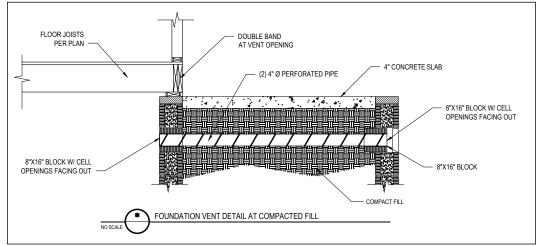
Project #: 2201-010205 Date: 05/31/22 DWG. Checked By PTII NOT TO SCALE REVISIONS

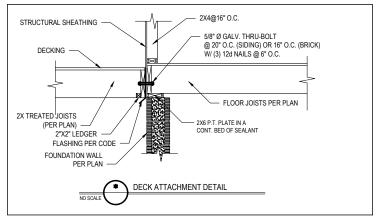
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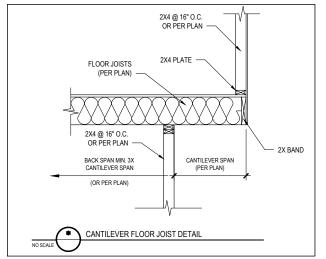
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* Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution.

* Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. liability.

A Design, P.A. liability.
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interpret that all dimensions, recommendati
etc. presented in these documents were
deemed acceptable once construction
begins.





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KEN DAWSON HOMES

| Plan: | 65 REMINGTON HILL



Project #:
2201-010205

Date:
05/31/22

Engineered By:
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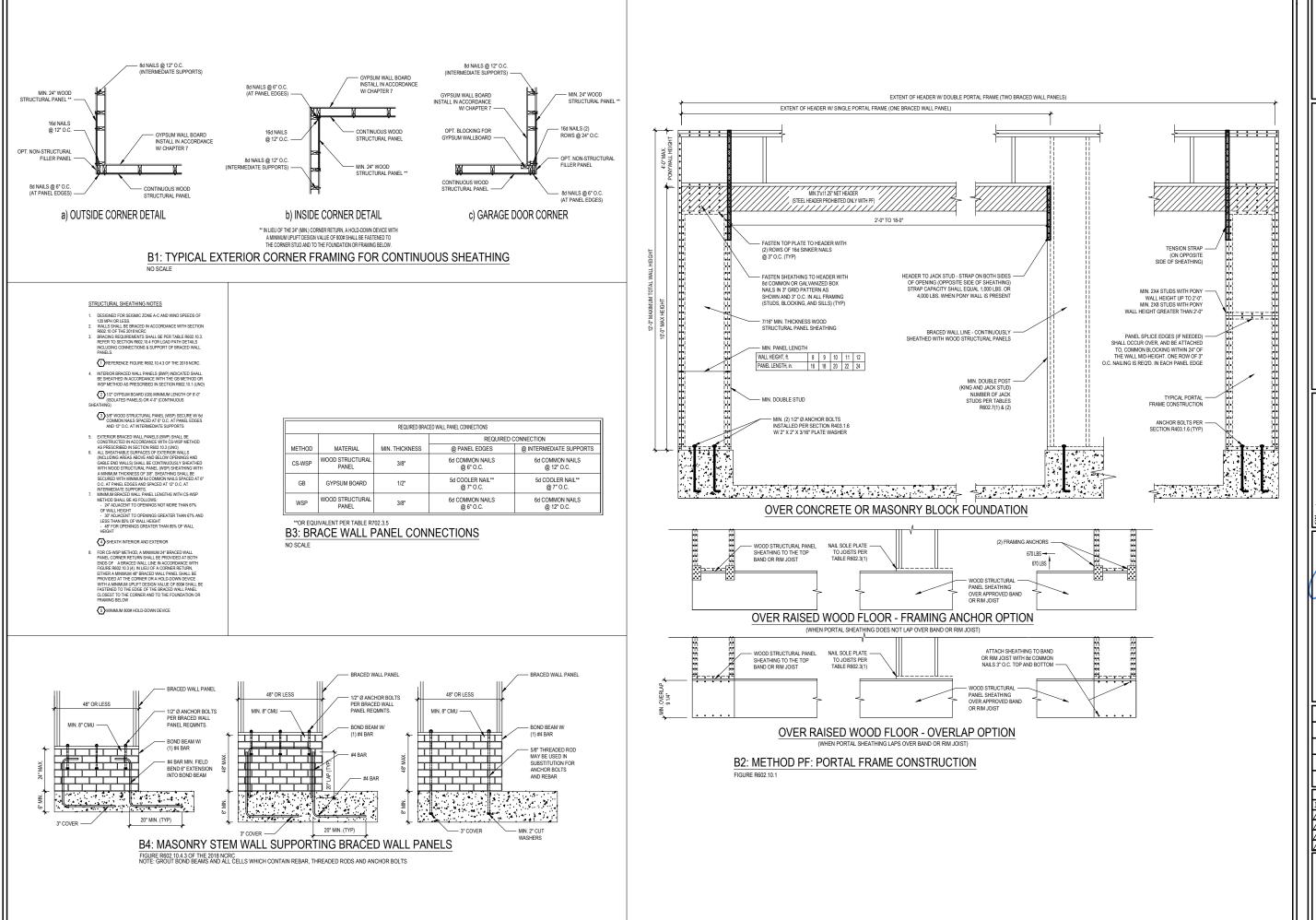
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Engineers seal does not include construc procedures or safety precaution

Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engi & Design, P.A. liability.

Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommen etc. presented in these documents were

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