

T 704-906-0938

2318 Katie Leigh Lane, Monroe, North Carolina 28110 www.tyndallengineering.com

March 25, 2024

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Reference: Engineering Services

Smith Garage

Project No.: DRB2301-0387-A

To Whom It May Concern.

As requested by the client, a representative of Tyndall Engineering & Design, PA (TE&D) reviewed the following items:

1. Stem wall foundation in-lieu of the plan specified monolithic slab.

The following conclusions and recommendations were noted:

1. Based on our plan review and analysis, the proposed stem wall foundation should be constructed in general accordance with the attached diagrams on sheet 2 and 3 of this report.

We appreciate being able to assist you during this phase of the project. If you need further assistance or require additional information, please do not hesitate to contact us.

Sincerely,

Tyndall Engineering & Design

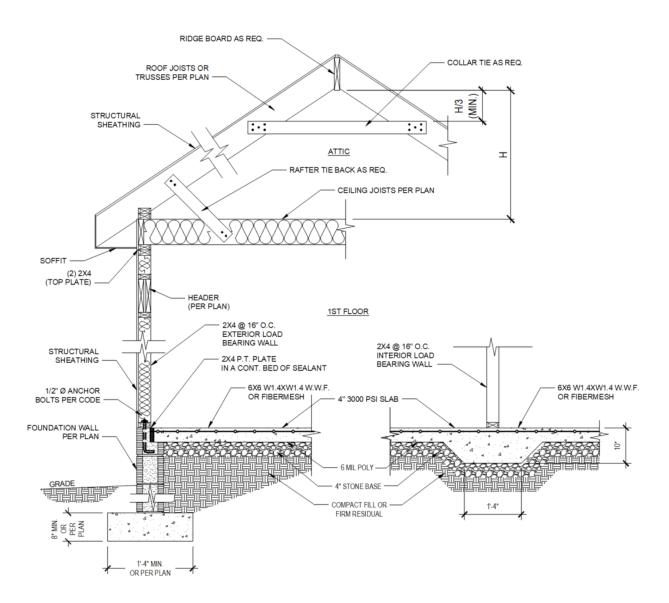
Sean M. Holmes

SMH | DRB2301-0387-A

Prentice A. Tyndall, Jr., P.E.

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## DESIGN LOADS

	LIVE LOAD DEAD LOAD (PSF) (PSF)		DEFLECTION	
	( - /	( - /	LL	ΤL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	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	BASED ON SEISMIC ZONES A, B & C			

- STRUCTURAL NOTES:

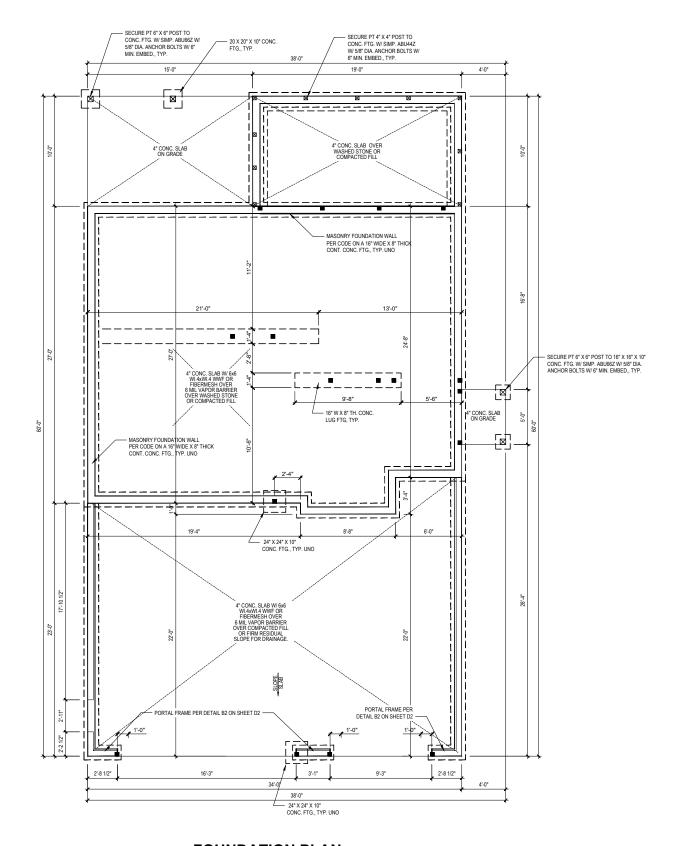
  1) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF YNORTH CARACLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.

  2) IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.

  3) ALL LUMBER STALL BE SYP 22 (UNC)
- ALL LUL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2600 PSI, E = 1.9M PSI

- FIS = 2800 PSI, E = 1,9M PSI
  LE ILEVEL MICROLAM)
  ALL LSUMBER IS TO BE 1,55E (Fb = 2325 PSI)
  ALL LSUMBER IS TO BE 1,55E (Fb = 2325 PSI)
  ALL LSUMBER IS TO BE 1,55E (Fb = 2325 PSI)
  (1) 2AJ AJCK STUD (U.N.O.) AND KING STUDS PER TABLE R602 7.5, AND
  TOSETHER W/2 (2) 610 AUBL 5 @ 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 (72)
  ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER
  TO TABLES R602 (71) AND R602 (72) FOR JACK STUD REQUIREMENTS
  FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS
  (INO)

- TO TABLES MOSIZ. (1) AND MOSIZ. (1) FURN WHAT AS THE INSTANCTOR OF THE PART SHARE AS THE STREET OF THE PART SHARE AS THE PART





**FOUNDATION PLAN** 

TYNDALL





STEWART SMITH

PLAN **FOUNDATION** 

Project#: DRB2301-0387 11-8-2023 SMH SEE PLAN

REVISIONS				
No.	Date:	Remarks		
$\Lambda$	3-25-24	Stem wall Foundation		
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Sheet Number **S**1