



- 120 MPH ULTIMATE DESIGN WIND SPEED
NOTES FOR LESS THAN
30' MEAN ROOF HEIGHT.**
- ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS; ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF SYSTEM.
 - STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
 - INSTALL 1/2" ANCHOR BOLTS 6'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7" INTO MASONRY OR CONCRETE. LOCATE BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.
 - MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
 - EXTERIOR WALLS DESIGNED FOR 120 MPH WINDS.
 - WALL CLADDING DESIGNED FOR +15.5 PSF AND -20 PSF (+/- INDICATE POSITIVE / NEGATIVE PRESSURE (TYP)).
 - ROOF CLADDING DESIGNED FOR +14.2 PSF AND -18 PSF FOR ROOF PITCHES 7/12 TO 12/12 AND +10 PSF AND -36 PSF FOR ROOF PITCHED 2.25/12 TO 7/12.
 - INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORES IN ACCORDANCE WITH SECTION PR02.10.3 OF THE NRC, 2018 EDITION.
 - ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NRC, 2018 EDITION. REFER TO NOTES AND DETAILS THIS SHEET FOR ADDITIONAL STRUCTURAL INFORMATION.

ANCHOR SPACING AND EMBEDMENT			NOTE:
WIND ZONE	120 MPH	130 MPH	THREADED ROD WITH EPOXY, SIMPSON TITEN HD, OR APPROVED ANCHORS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2" DIAMETER ANCHOR BOLTS MAY BE USED IN LIEU OF 1/2" ANCHOR BOLTS.
SPACING	6'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	4'-0" O.C. INSTALL MIN. (2) ANCHORS PER PLATE SECTION AND (1) ANCHOR WITHIN 12" OF CORNERS	
EMBEDMENT	1"	5" INTO MASONRY 1" INTO CONCRETE	

WALL HEIGHT (FEET)	MASONRY WALL TYPE			
	8" CMU	4" BRICK AND 4" CMU	4" BRICK AND 8" CMU	12" CMU
2 AND BELOW	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED
3	UNGROUTED	GROUT SOLID	UNGROUTED	UNGROUTED
4	GROUT SOLID	GROUT SOLID w/ #4 REBAR @ 48" O.C.	GROUT SOLID	GROUT SOLID w/ #4 REBAR @ 64" O.C.
5	GROUT SOLID w/ #4 REBAR @ 36" O.C.	NOT APPLICABLE	GROUT SOLID w/ #4 REBAR @ 36" O.C.	GROUT SOLID w/ #4 REBAR @ 64" O.C.
6	GROUT SOLID w/ #4 REBAR @ 24" O.C.	NOT APPLICABLE	GROUT SOLID w/ #4 REBAR @ 24" O.C.	GROUT SOLID w/ #4 REBAR @ 64" O.C.
7 AND GREATER	ENGINEERED DESIGN BASED ON SITE CONDITIONS			

- STRUCTURAL NOTES:**
- WALL HEIGHT MEASURED FROM TOP OF FOOTING TO TOP OF THE WALL.
 - TIE MULTIPLE UNITES TOGETHER WITH LADDER WIRE AT 16" O.C. VERTICALLY.
 - CHART APPLICABLE FOR HOUSE FOUNDATION ONLY; CONSULT ENGINEER FOR DESIGN OF GARAGE FOUNDATION NOT COMMON TO HOUSE.
 - BACKFILL OF CLEAN #1 1/4" WASHED STONE IS ALLOWABLE.
 - BACKFILL OF WELL DRAINED OR SAND - GRAVEL MIXTURE SOILS (45 PSF/FT BELOW GRADE) CLASSIFIED AS GROUP 1 ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R505) OF THE 2018 NORTH CAROLINA RESIDENTIAL CODE ARE ALLOWABLE.
 - PREP SLAB PER R506.2) AND R506.2) BASE AND EXCEPTION OF 2018 NORTH CAROLINA RESIDENTIAL CODE.
 - MINIMUM 24" LAP SPLICE LENGTH.
 - LOCATE REBAR IN CENTER OF FOUNDATION WALL.
 - WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE 'S' MORTAR OR 3000 PSI BULK USE OF 'LOW LIFT GROUTING' METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.

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2563 HILLMAN GROVE ROAD
THOMAS PROPERTIES

DATE: FEBRUARY 4, 2022
SCALE: 1/4" = 1'-0"
DRAWN BY: JST
ENGINEERED BY: JAG



SHEET 1 OF 1
S-1
STEM WALL
FOUNDATION PLAN

SEE ATTACHED LETTER FOR FRAMING DETAILS