

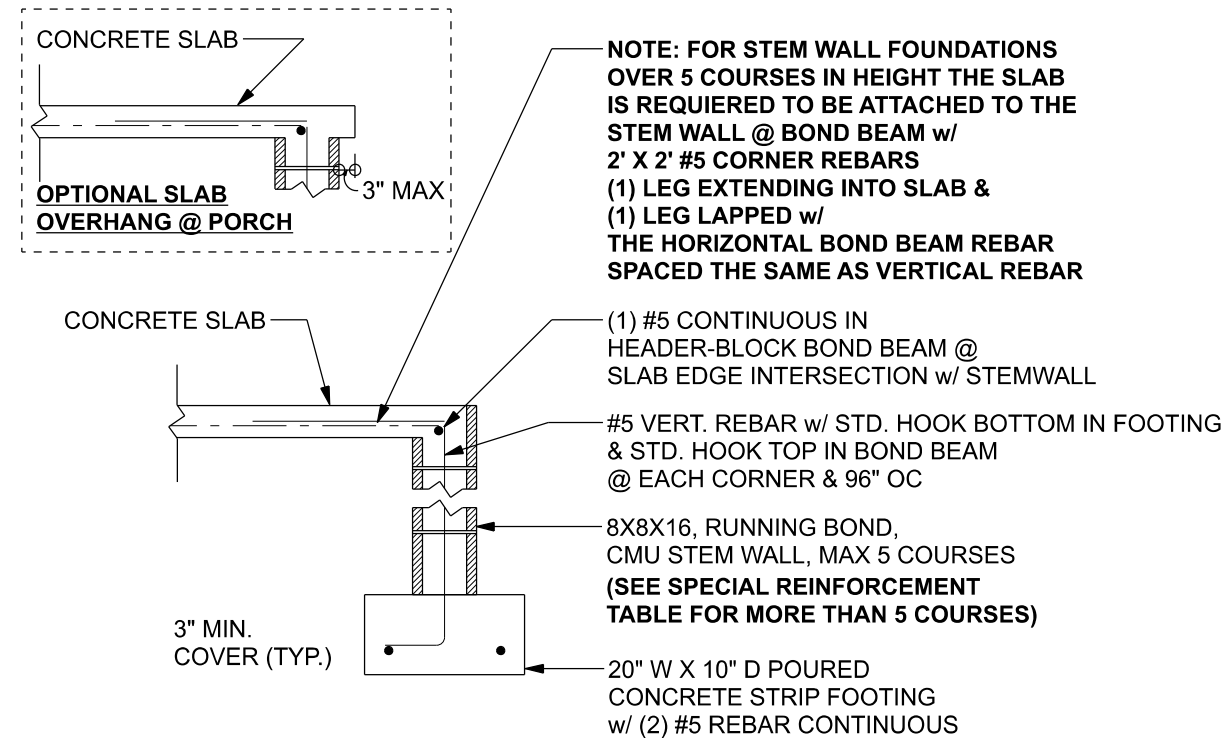


**TALL STEM WALL TABLE:**  
The table assumes 40 ksi for #5 rebar and 60 ksi for #7 & #8 rebar with 6" hook in the footing and bent 24" into the reinforced slab at the top. The vertical steel is to be placed toward the tension side of the CMU wall (away from the soil pressure, within 2" of the exterior side of the wall). If the wall is over 8' high, add Durowall ladder reinforcement at 16" OC vertically or a horizontal bond beam with 1#5 continuous at mid height. For higher parts of the wall 12" CMU may be used with reinforcement as shown in the table below.

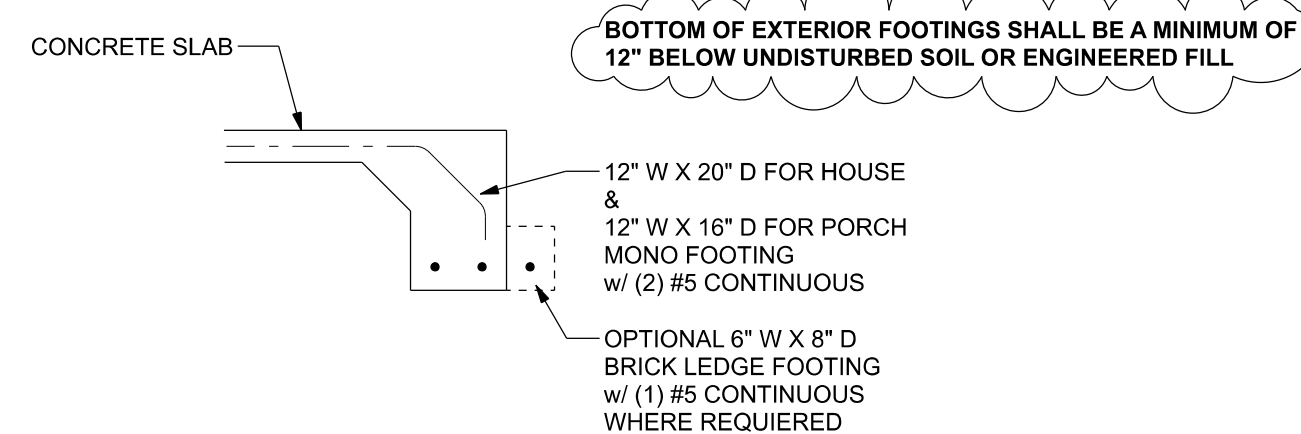
| STEM WALL HEIGHT (FEET) | UNBALANCED BACKFILL HEIGHT | VERTICAL REINFORCEMENT FOR 8" CMU STEM WALL (INCHES O.C.) |    |    | VERTICAL REINFORCEMENT FOR 12" CMU STEM WALL (INCHES O.C.) |    |    |
|-------------------------|----------------------------|---|----|----|--|----|----|
|                         |                            | #5  | #7 | #8 | #5   | #7 | #8 |
| 3.3                     | 3.0                        | 96  | 96 | 96 | 96   | 96 | 96 |
| 4.0                     | 3.7                        | 96  | 96 | 96 | 96   | 96 | 96 |
| 4.7                     | 4.3                        | 88  | 96 | 96 | 96   | 96 | 96 |
| 5.3                     | 5.0                        | 56  | 96 | 96 | 96   | 96 | 96 |
| 6.0                     | 5.7                        | 40  | 80 | 96 | 80   | 96 | 96 |
| 6.7                     | 6.3                        | 32  | 56 | 80 | 56   | 96 | 96 |
| 7.3                     | 7.0                        | 24  | 40 | 56 | 40   | 80 | 96 |
| 8.0                     | 7.7                        | 16  | 32 | 48 | 32   | 64 | 80 |
| 8.7                     | 8.3                        | 8   | 24 | 32 | 24   | 48 | 64 |
| 9.3                     | 9.0                        | 8   | 16 | 24 | 16   | 40 | 48 |

**MASONRY NOTE:**  
MASONRY CONSTRUCTION AND MATERIALS FOR THIS PROJECT SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6/TMS 602). THE CONTRACTOR AND MASON MUST IMMEDIATELY, BEFORE PROCEEDING, NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN ACI 530.1-02 AND THESE DESIGN DRAWINGS. ANY EXCEPTIONS TO ACI 530.1-02 MUST BE APPROVED BY THE ENGINEER IN WRITING.

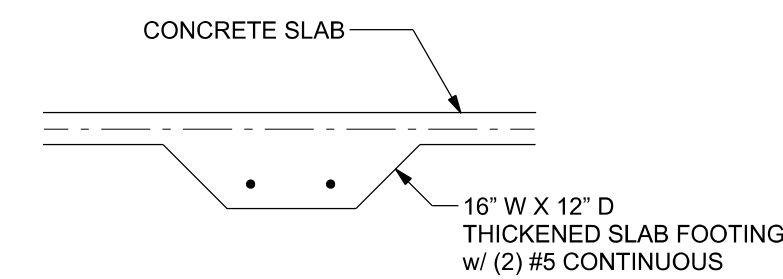
| ACI 530.1-02 Section                     | Specific Requirements   |
|--|---|
| 1.4A Compressive strength                | 8" block bearing walls Fm = 1500 psi  |
| 2.1 Mortar                               | ASTM C 270, Type N, UNO   |
| 2.2 Grout                                | ASTM C 476, admixtures require approval   |
| 2.3 CMU standard                         | ASTM C 90-02, Normal weight, Hollow, medium surface finish, 8"x8"x16" running bond and 12"x12" or 16"x16" column block  |
| 2.3 Clay brick standard                  | ASTM C 216-02, Grade SW, Type FBS, 5.5"x2.75"x11.5"   |
| 2.4 Reinforcing bars, #3 - #11           | ASTM 615, Grade 40, Fy = 40 ksi, Lap splices min 40 bar dia. (25" for #5)   |
| 2.4F Coating for corrosion protection    | Anchors, sheet metal ties completely embedded in mortar or grout, ASTM A525, Class 360, 0.60 oz/lb or 304SS   |
| 2.4F Coating for corrosion protection    | Joint reinforcement in walls exposed to moisture or wire ties, anchors, sheet metal ties not completely embedded in mortar or grout, ASTM A153, Class B2, 1.50 oz/lb or 304SS |
| 3.3.E.2 Pipes, conduits, and accessories | Any not shown on the project drawings require engineering approval.   |
| 3.3.E.7 Movement joints                  | Contractor assumes responsibility for type and location of movement joints if not detailed on project drawings.   |



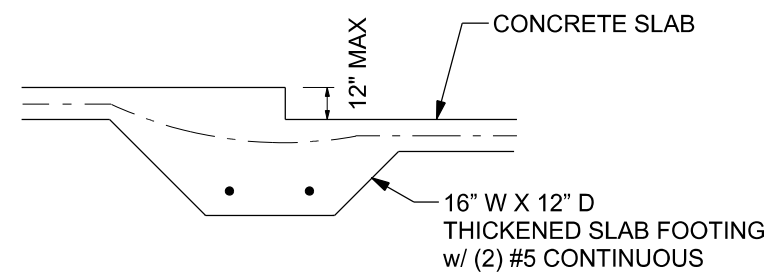
**F1 S-2 STEM WALL FOOTING**  
SCALE: 1/2" = 1'-0"



**F1 S-2 OPTIONAL MONOLITHIC FOOTING**  
SCALE: 1/2" = 1'-0"

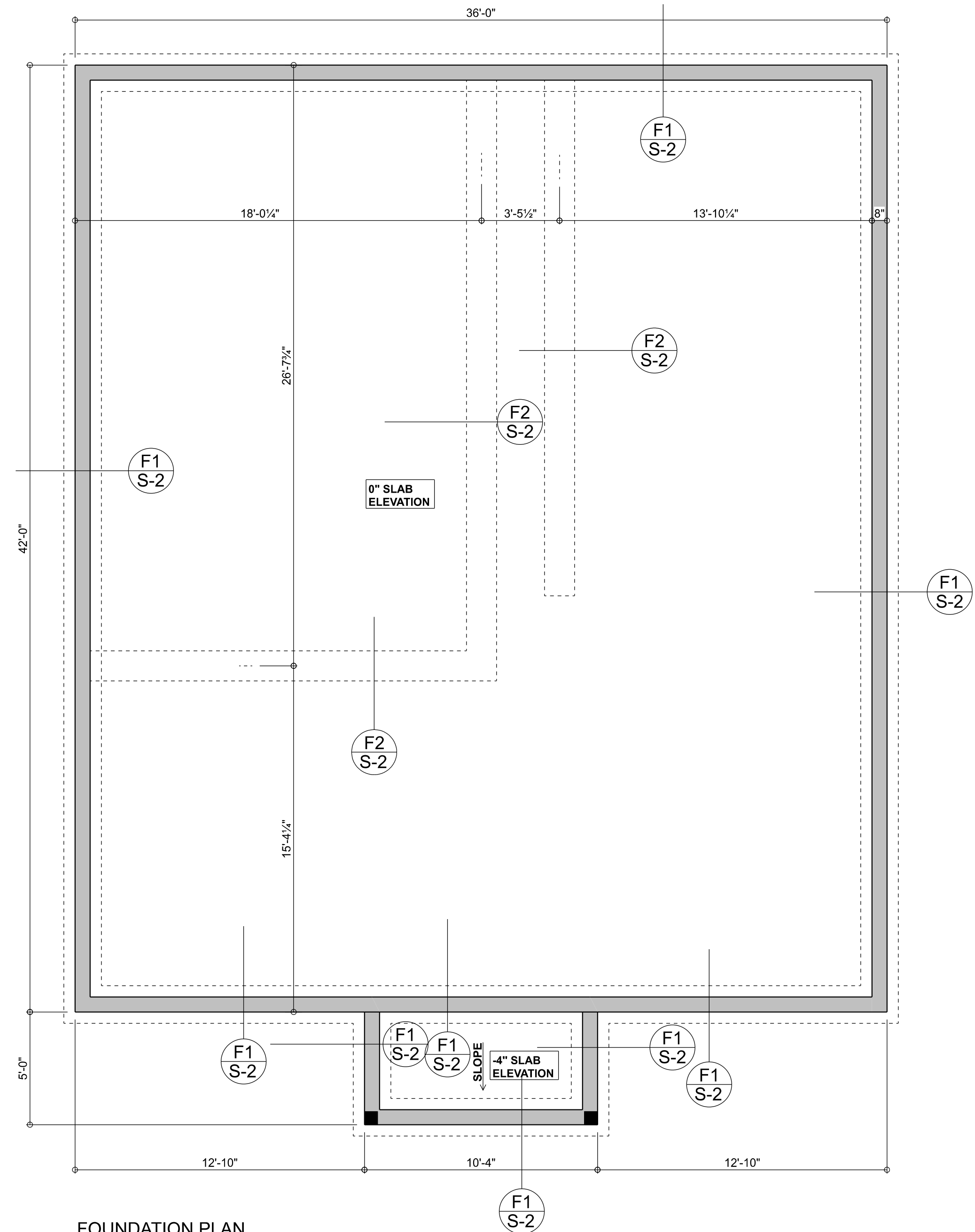


**F2 S-2 INTERIOR BEARING FOOTING**  
SCALE: 1/2" = 1'-0"



**F3 S-2 INTERIOR BEARING STEP FOOTING**  
SCALE: 1/2" = 1'-0"

**BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 12" BELOW UNDISTURBED SOIL OR ENGINEERED FILL**



**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"

**FOUNDATION NOTES**

- DIMENSIONS ON FOUNDATION & STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL PLANS FOR ACTUAL DIMENSIONS, NECESSITIES IN SLAB, STEP DOWNS, ETC. DISOSWAY DESIGN GROUP OR MARK DISOSWAY, P.E. IS NOT RESPONSIBLE FOR DIMENSION ERRORS ON THIS PLAN.
- CONTRACTOR SHALL VERIFY NEED FOR INTERIOR BEARING IN ALL AREAS BY REVIEWING THE ROOF TRUSS PLAN (BY THE SUPPLIER) BEFORE FINALIZING FOUNDATION PLAN.
- THE SLAB SHALL BE: 4" CONCRETE SLAB REINFORCED w/ 6X6-14# 4 WELDED WIRE MESH PLACED ON CHAIRS @ 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-MIL POLY VAPOR BARRIER w/ 6" LAPS SEALED w/ POLY TAPE OVER TERMITE-TREATED & COMPACTED FILL (ALSO, ANY OTHER CODE APPROVED TERMITE-TREATMENT METHOD CAN BE USED INSTEAD).

Matthew Berthold Res.  
PROJECT ADDRESS:  
892 S Bobcat Lane, Columbia County, FL

FL PE 53915  
This item has been digitally signed and sealed by Mark Disosway, P.E. on digital signature date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.  
C=US, O=Florida, dnQualifier=A014 10C000017E97 DE07CA000746F0, CN=Mark d Disosway 2024-12-05 15:36:07

**DIMENSIONS:**  
Stated dimensions supersede scaled dimensions. Refer all questions to Mark Disosway, P.E. for resolution. Do not proceed without clarification.

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**CERTIFICATION:** I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with the 8th Edition Florida Building Code Residential (2023) to the best of my knowledge.

**LIMITATION:** This design is valid for one building, at specified location.

**Mark Disosway P.E.**  
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**JOB NUMBER:**  
240312  
**S-2**  
OF 3 SHEETS

