

1. DESIGN SOIL BEARING PRESSURE: 1800 PSF.
2. EXPANSIVE SOILS: WHERE DIRECTED BY THE SOILS ENGINEER, SOIL AUGMENTATION PER THE SOILS ENGINEER'S SPECIFICATIONS SHALL BE IMPLEMENTED PRIOR TO PLACING ANY FOUNDATIONS - TESTS AS SPECIFIED SHALL BE PERFORMED TO DETERMINE THE SUITABILITY OF THE SUB-GRADE TO SUPPORT THE DESIGN LOADS.
3. CLEAN SAND FILL OVER STRIPPED AND COMPACTED EXISTING G.D. SHALL BE PLACED IN 12" LIFTS. BOTH SUB-SOIL AND FILL COMPACTION SHALL BE NOT LESS THAN 98% AS MEASURED BY A MODIFIED PROCTOR TEST AT THE RATE OF ONE TEST FOR EACH 1800 SF OF BUILDING PAD AREA, OR FRACTION THEREOF, FOR EACH 12" LIFT.
4. REINFORCING STEEL SHALL BE GRADE 60 AND MEET THE REQUIREMENTS OF ASTM A615. ALL BENDS SHALL BE MADE COLD.
5. WELDED WIRE MESH SLAB REINFORCING SHALL MEET THE REQUIREMENTS OF ASTM A105 - MIN. YIELD STRESS = 85 KSI.

6. CONCRETE SHALL BE STANDARD MIX F'c = 3000 PSI FOR ALL FTGS, SLABS, COLUMNS AND BEAMS OR SHALL BE STANDARD PUMP MIX F'c = 3000 PSI. STRENGTH SHALL BE ATTAINED WITHIN 28 DAYS OF PLACEMENT. MIXING, PLACING AND FINISHING SHALL BE AS PER ACI STANDARDS.
7. CONCRETE BLOCK SHALL BE AS PER MANUFACTURER'S PRODUCT GUIDE FOR ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH - F'm = 1500 PSI.
8. MORTAR SHALL BE TYPE "M" OR "N" FOR ALL MASONRY UNITS.
9. STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 STANDARDS FOR STRENGTH. BOLTS SHALL BE ASTM A307 / GRADE I OR A325, AS PER PLAN REQUIREMENTS.
10. WELDS SHALL BE AS PER "AMERICAN WELDING SOCIETY" STANDARDS FOR STRUCTURAL STEEL APPLICATIONS.
11. 2X4 P/T WOOD SILL, CONT. ALL AROUND, W/ 5/8"-A.B. W/ 3" SQ. X 1/4" PLATE WASHERS WITHIN 12-16" FROM EACH CORNER, EA. WAY. 1 WITHIN 8-20" FROM ALL WALL OPENINGS / ENDS. 1/2"-A.B. W/ 2" SQ. WASHERS ALONG EACH RUN = 48" O.C., MAX. - ALL ANCHOR BOLTS SHALL HAVE A MINIMUM OF 8" EMBEDMENT INTO THE CONCRETE.

Technical drawing showing a cross-section of a beam and footing connection.

Beam Section (Top):

- 8" CMU BOND BEAM W/ #5 BAR CONT/25" MIN. LAP
- #5 ELLS $\times 18" \times 18"$
- #5 DOWELS $\phi 48"$ O.C. MAX.
- 18" (Total height)
- 6" (Bond beam height)
- 8" CMU (Bond beam width)

Footing Section (Bottom):

- 2500 PSI CONC. FOOTING
- 2-#5 BARS CONTINUOUS ON WIRE OR PLASTIC CHAIRS
- 10" (Total height)
- 3" (Footing width)
- 7" (Footing width)
- 20" (Footing width)

SCALE: $3/4" = 1'-0"$

Diagram of a rectangular slab with dimensions and reinforcement details:

- Overall width: 12"
- Overall height: 20"
- Reinforcement details:
 - 2 - #5 BARS CONTINUOUS ON WIRE/PLASTIC CHAIRS @ 48" O.C.
 - 3" dimension (likely spacing or offset)
 - 6" dimension (likely spacing or offset)
 - 3" dimension (likely spacing or offset)

SCALE: not to scale

SCALE: 3/4" = 1'-0"

NOTE:
VERIFY INTERIOR BEARING WALLS WITH
TRUSS MANUFACTURE DRAWINGS! USE DETAIL
"B" THIS PAGE AT ALL INTERIOR BEARING LOC.

NOTE:
THE DESIGN WIND SPEED FOR THIS
PROJECT IS 130 MPH PER FBC 1609
AND LOCAL JURISDICTION REQUIREMENTS

NOTE:
ADDED FILL SHALL BE APPLIED IN 8" LIFTS -
EA. LIFT SHALL BE COMPACTED TO 98% DRY
COMPACTION PER THE "MODIFIED PROCTOR"
METHOD.

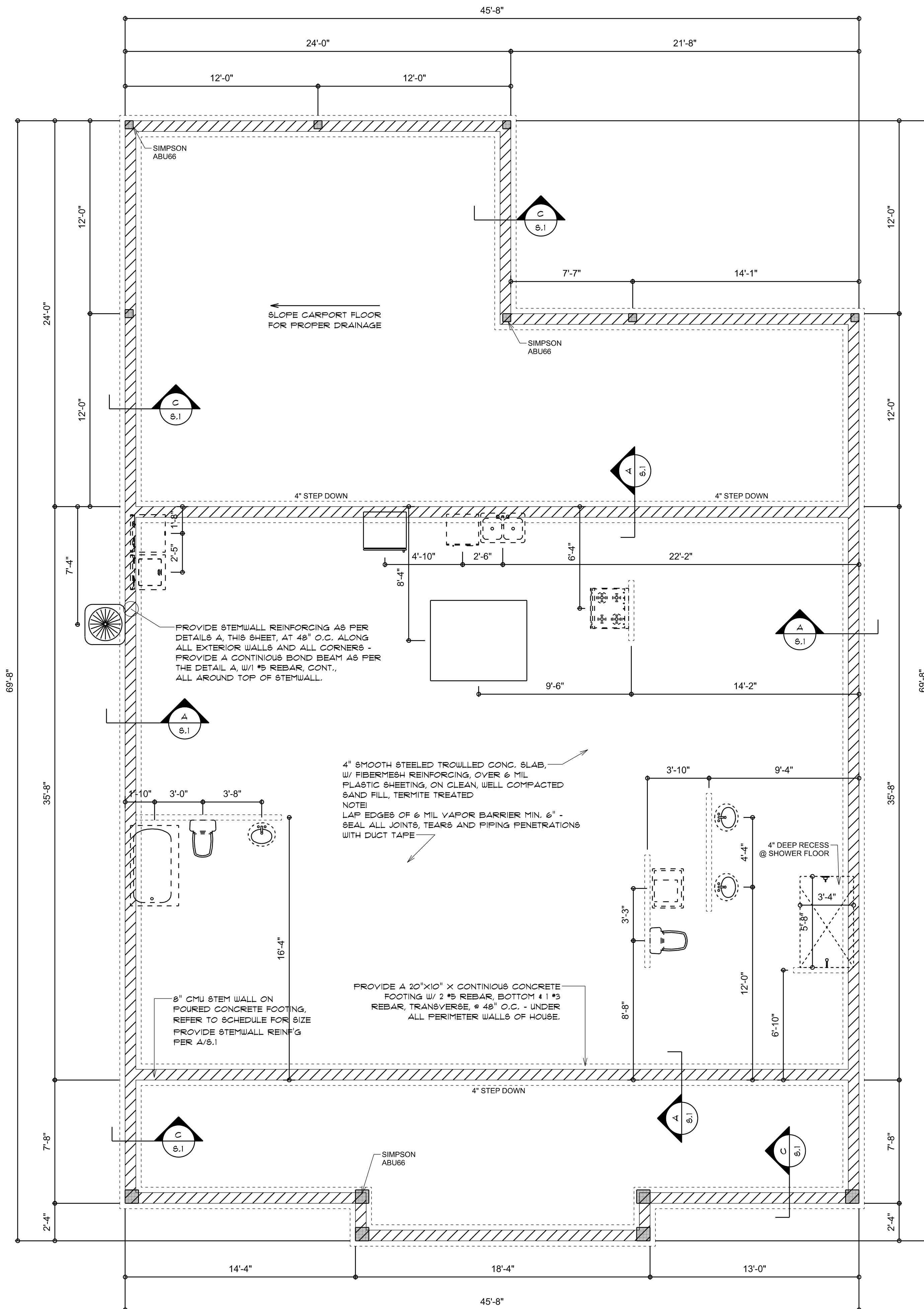
NOTE:
PLUMBING CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP
DRAWINGS INDICATING ALL PLUMBING WORK, INCLUDING ALL
PLUMBING LINE LOCATIONS AND RISER DIAGRAM - CONTR
SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER AND
1 COPY TO THE PERMIT ISSUING AUTHORITY.

NOTE:
H.V.A.C. CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP
DRAWINGS INDICATING ALL H.V.A.C. WORK, INCLUDING ALL
DUCTWORK LOC., SIZES, LINES, EQUIPMENT SCH. & BALANCING
REPORT - CONTR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS
TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

Technical drawing of a column and footing assembly. The column is 18" wide and 10" high. It is reinforced with #5 ELLS $\times 18" \times 18"$ @ 48" O.C. MAX. and #5 DOWELS @ 48" O.C. MAX. The footing is 20" wide and 3" high. It is reinforced with 2-#5 BARS CONTINUOUS ON WIRE OR PLASTIC CHAIRS. The concrete strength is 2500 PSI CONC. The drawing includes dimensions for reinforcement spacing and cover.

SCALE: 3/4" = 1'-0"

C
S.1



SCALE: 1/4" = 1'-0"

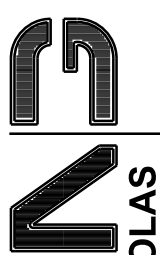


RE

Sep. 8th, 2025

CUSTOM HOME FOR:
HEATHERMAN RESIDENCE

Columbia County, FL



**NICHOLAS
PAUL
GEISLER
ARCHITECT**
C.A.R.B. Certified

1758 NW Brown Rd.
Lake City, FL 32055

SHEET NUMBER

S.1

OF 4 SHEETS

AR0007005

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