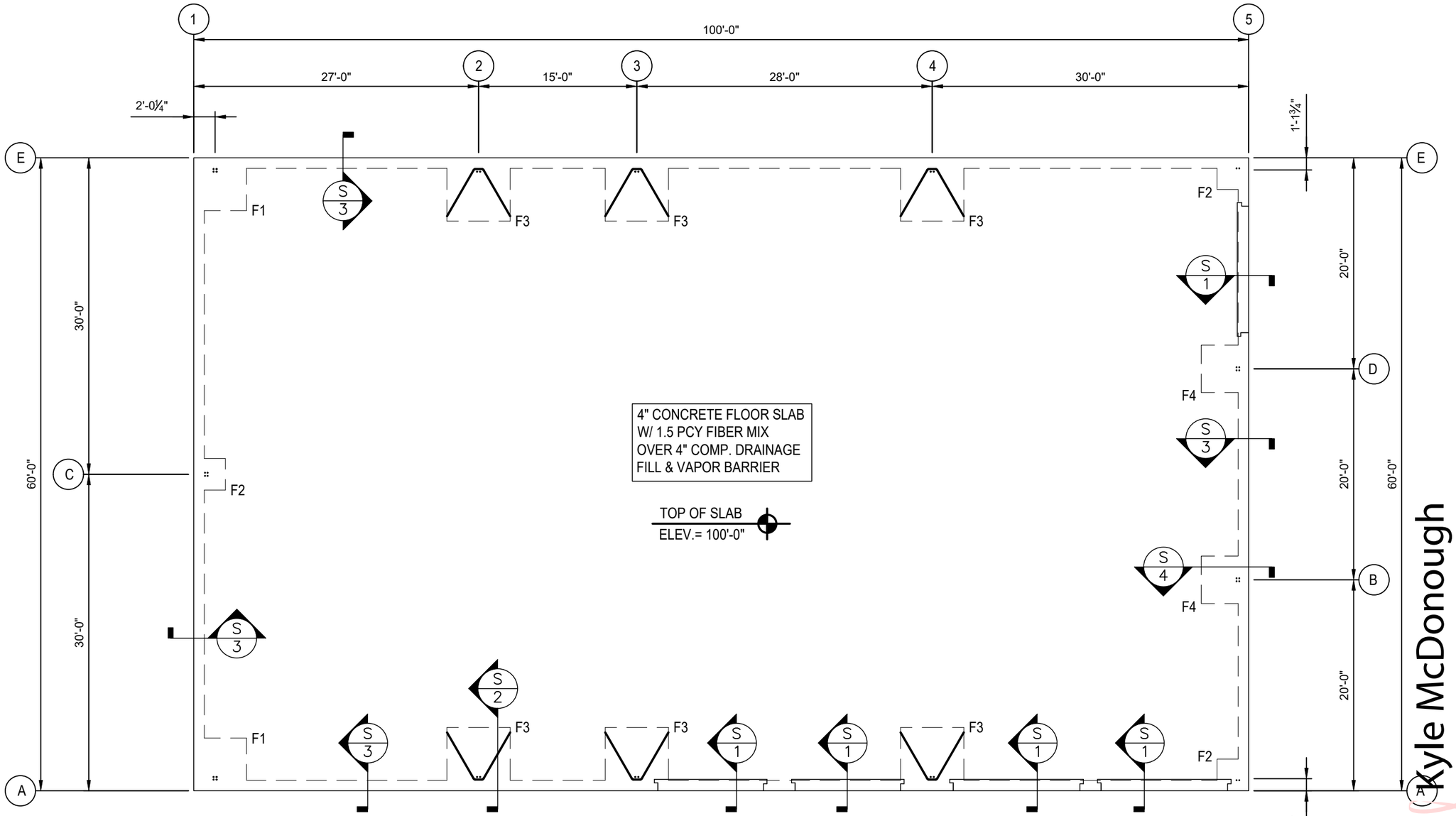


FOUNDATION PLAN

FOOTING SCHEDULE				
MARK	SIZE	BOTT/FOOTING ELEV.	REINFORCING	
			BOTTOM	TOP
F1	5'–0" x 5'–0" x 1'–6"	98'–6"	(7) #5 EACH WAY	N/A
F2	3'–0" x 3'–0" x 1'–6"	98'–6"	(4) #5 EACH WAY	N/A
F3	6'–0" x 6'–0" x 1'–6"	98'–6"	(8) #5 EACH WAY	N/A
F4	4'–6" x 4'–6" x 1'–6"	98'–6"	(6) #5 EACH WAY	N/A

Kyle McDonough
2022.09.16 10:43:02
-04'00'

This item has been electronically signed and sealed by Kyle S. McDonough using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

KYLE S. McDONOUGH LICENSE No. 83601 STATE OF FLORIDA PROFESSIONAL ENGINEER

FLORIDA METAL BUILDING SERVICES, LLC
5445 S. PINE AVE
OCALA, FL 34480
PHONE: 352–789–6009

KEVIN GRAHAM

LAKE CITY, FL 320024
JOB NO. 22–512

DATE
SEPTEMBER 8, 2022

SHEET
2 OF 3

DESIGN LOADS:

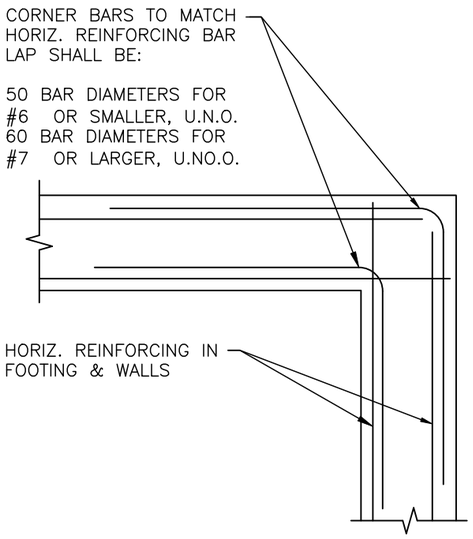
BUILDING CODE:	FBC 2020	
ROOF LIVE LOAD:	20 PSF	
ROOF DEAD LOAD		
SUPERIMPOSED:	2.0 PSF	
COLLATERAL:	3.0 PSF	
GROUND SNOW LOAD:	0.0 PSF	
FLAT ROOF SNOW LOAD:	0.0 PSF	
ULTIMATE WIND SPEED:	131 MPH	
WIND EXPOSURE CATEGORY:	B	
IMPORTANCE FACTOR:	WIND	1.00
	SEISMIC	1.00
	SNOW	1.00

SEISMIC DESIGN PARAMETERS:

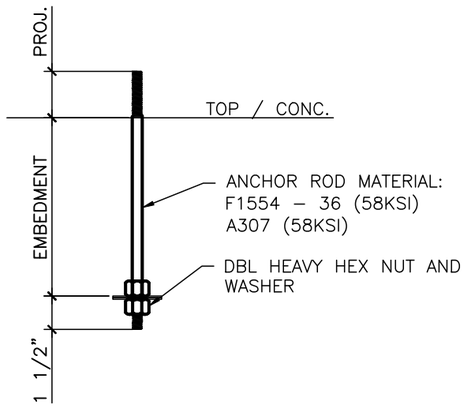
SEISMIC USE GROUP:	II – NORMAL
SPECTRAL RESPONSE ACCELERATION:	S_S: 0.08
	S_1: 0.05
SITE CLASSIFICATION:	D
SEISMIC DESIGN CATEGORY:	B

LATERAL DESIGN CONTROL:

EARTHQUAKE: _____
WIND: __X__
CALCULATED BUILDING DESIGN BASE SHEARS:
VX= SEE METAL BLDG. DRAWINGS
VY= SEE METAL BLDG. DRAWINGS



TYPICAL CORNER BAR DETAIL



ANCHOR BOLT EMBEDMENT:

5/8" ø A.B. = 10" EMBEDMENT
3/4" ø A.B. = 12" EMBEDMENT

CONCRETE:

1. ALL CONCRETE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318–14.
2. ALL CONCRETE SHALL HAVE ASTM C–33 AGGREGATE WITH MAXIMUM UNIT WEIGHT OF 150 PCF.
   SLAB–ON–GRADE CONCRETE COMPRESSIVE STRENGTH SHALL BE 3,000 PSI AT 28 DAYS, MIN.

GENERAL NOTES:

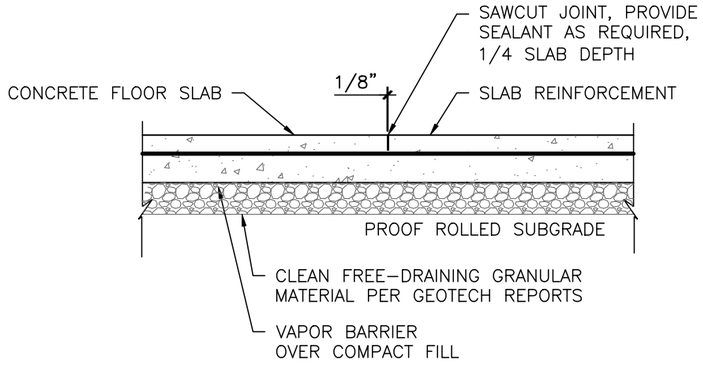
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL CODES AND REGULATIONS.
2. ALL DIMENSIONS SHOULD BE READ OR CALCULATED, NOT SCALED.
3. REFER TO METAL BUILDING DRAWINGS FOR SPECIFIC DETAILS AND INFORMATION.
4. REFER TO METAL BUILDING DRAWINGS FOR ALL ANCHOR BOLT SIZES AND LOCATIONS.
5. THE DESIGN OF THIS FOUNDATION WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE – 2018 EDITION.
6. THE CONTRACTOR SHALL EXERCISE PROPER PRECAUTION TO VERIFY ALL EXISTING CONDITIONS AND LAYOUT OF WORK. IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY ERROR RESULTING FROM FAILURE TO EXERCISE SUCH PRECAUTION.
7. ANY DISCREPANCIES, ERRORS ON OMISSIONS DISCOVERED IN THE DOCUMENT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH RELATED WORK, OTHERWISE, THE CORRECTION OF SUCH ITEMS IS THE RESPONSIBILITY OF THE CONTRACTOR OR SUBCONTRACTOR.
8. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR A NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. CONTROL JOINTS IN CONCRETE SLABS SHALL BE SAWCUT, CONSTRUCTION JOINTS SHALL BE FORMED WITH KEYED METAL EDGE FORM MATERIAL OR DOWELED.
10. CONTROL JOINTS SHALL BE INSTALLED AT 12' O.C., MAX SPACING EACH WAY FOR FLOOR SLABS ON GRADE, UNLESS SHOWN OTHERWISE.

FOUNDATIONS:

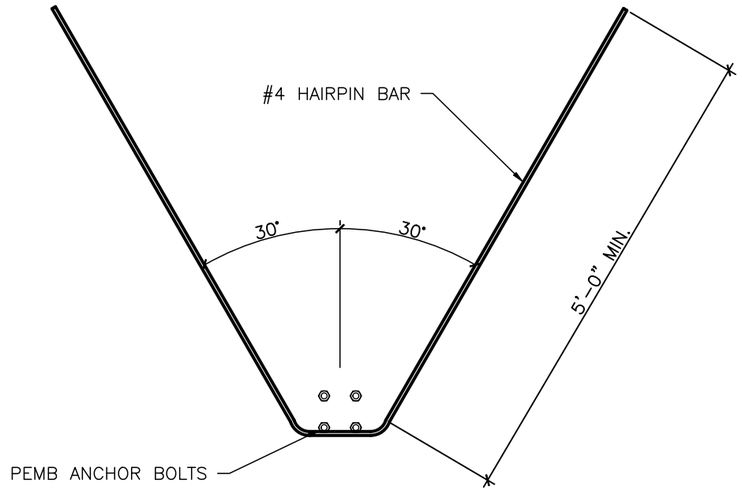
1. ASSUMED SOIL BEARING PRESSURE IS 2,000 PSF ON FIRM UNDISTURBED SOIL OR COMPACTED FILL MATERIAL. ALL CONCRETE FOOTINGS SHOULD EXTEND BELOW FROST LINE PER LOCAL BUILDING CODE.
2. FILL MATERIAL SHALL BE FREE OF ROOTS, WOOD AND OTHER ORGANIC MATERIAL. MATERIALS USED FOR FILL BELOW FOOTINGS AND WITHIN BUILDING LIMITS SHALL BE TESTED AND APPROVED FOR USE BY AN APPROVED TESTING AGENCY.
3. FILL SHALL BE PLACED IN LIFTS NO GREATER THAN 8 INCHES AND COMPACTED TO 95 PERCENT OF THE OPTIMUM DENSITY AS DEFINED BY ASTM D–698.
4. THE EXPOSED SUBGRADE SHALL THEN BEE PROOF–ROLLED WITH A MEDIUM WEIGHT ROLLER OR OTHER APPROVED EQUIPMENT TO DETERMINE IF ANY POCKETS OF SOFT, COMPRESSIBLE SOILS EXIST BELOW THE EXPOSED SUBGRADE, WHEREVER SUCH MATERIAL IS ENCOUNTERED, THE AREA SHALL BE UNDERCUT TO SUITABLE SOILS, AS DIRECTED BY AN INDEPENDENT QUALIFIED SOILS ENGINEER.
5. CONTRACTOR RESPONSIBLE FOR COORDINATING PIPE PENETRATIONS THROUGH CONCRETE FOOTINGS OR GRADE BEAMS. PROVIDE PROPER SLEEVES AND PLACEMENT TO AVOID INTERFERENCES WITH REBAR. ALL MATERIAL AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS AND UTILITY COMPANY REGULATIONS.
6. ALL FILL MATERIALS SHALL BE TESTED AND APPROVED BY AN INDEPENDENT QUALIFIED SOILS ENGINEER PRIOR TO PLACEMENT.
7. IF UNSUITABLE MATERIAL IS FOUND, THE PROPOSED FOOTING SUBGRADE ELEVATION SHALL BE RE–ESTABLISHED BY LOCALIZED UNDERCUTTING AND USING A SUITABLE FILL OR LEAN CONCRETE UP TO FOOTING DESIGN BEARING ELEVATION.

REINFORCING STEEL:

1. REINFORCING STEEL SHALL BE BILLET STEEL, DEFORMED BARS CONFORMING TO ASTM A–615, GRADE 60.
2. CONCRETE COVERAGE OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE UNLESS OTHERWISE NOTED:
   A. FOOTING AND GRADE BEAMS 3 INCHES
   B. SLAB ON GRADE 2 INCHES
3. PROVIDE CORNER BARS AT ALL CONCRETE WALL CORNERS TO BE LAPPED WITH THE HORIZONTAL BARS. CORNER BARS ARE TO MATCH THE HORIZONTAL BARS IN SIZE, GRADE, AND SPACING.
4. MINIMUM LENGTH OF REINFORCING BAR LAP SPLICES SHALL BE 50 BAR DIAMETERS FOR #6 BARS AND SMALLER AND 60 BAR DIAMETERS FOR #7 BARS AND LARGER, UNLESS NOTED OTHERWISE.



TYPICAL CONTROL JOINTS



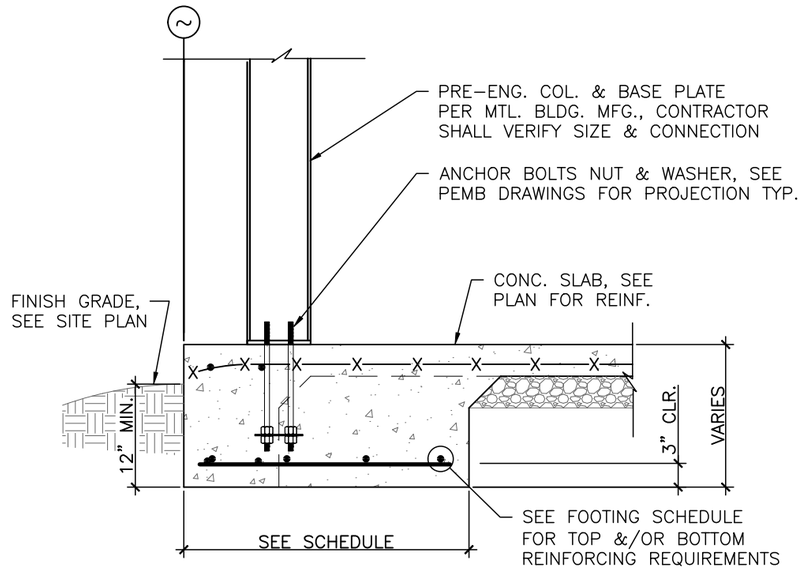
FRAME HAIRPIN BAR DETAIL

FLORIDA METAL BUILDING SERVICES, LLC
5445 S. PINE AVE
OCALA, FL 34480
PHONE: 352–789–6009

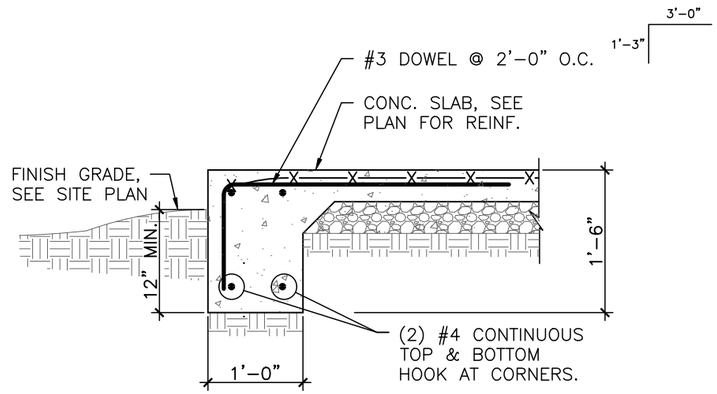
KEVIN GRAHAM
LAKE CITY, FL 320024
JOB NO. 22–512

DATE
SEPTEMBER 8, 2022

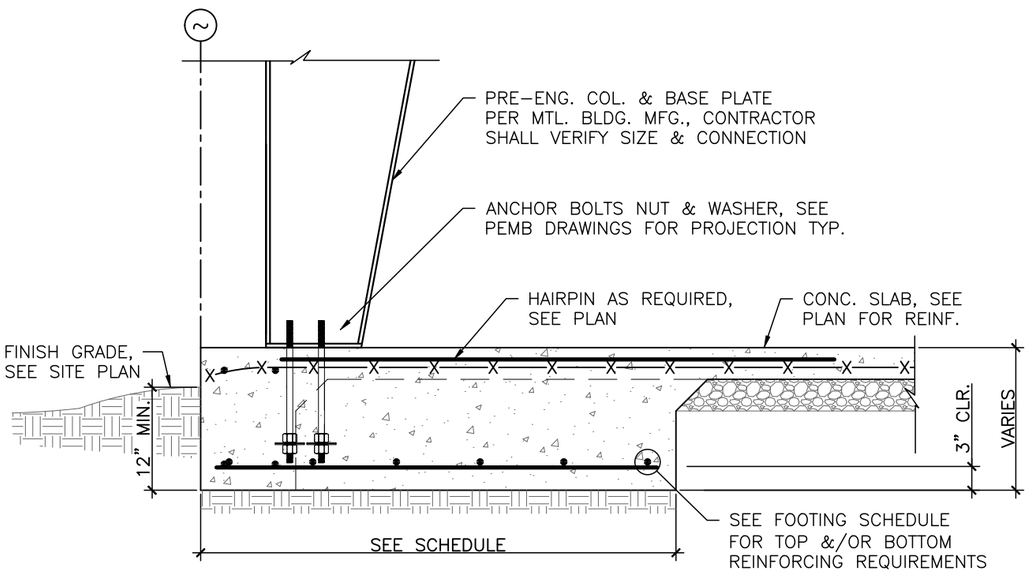
SHEET
2 OF 3



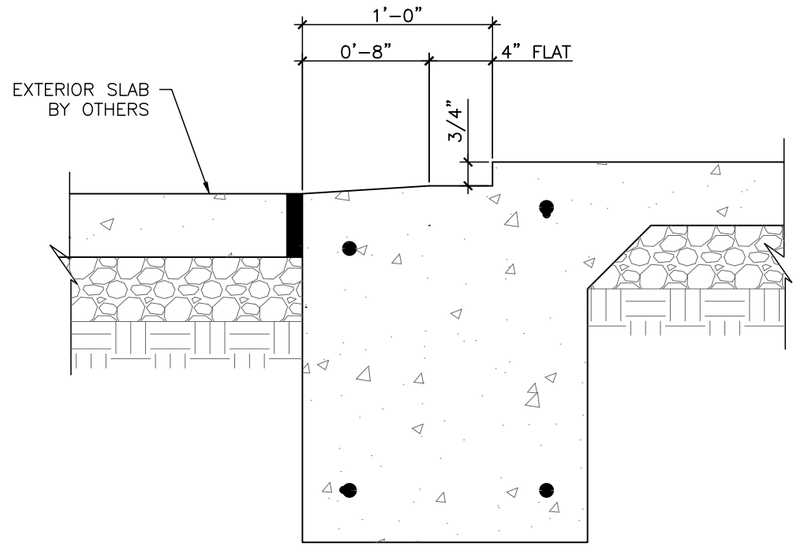
S/4 FOOTING SECTION



S/3 PERIMETER FOOTING



S/2 FOOTING SECTION



S/1 OVHD DOOR SECTION

FLORIDA METAL BUILDING SERVICES, LLC
5445 S. PINE AVE
OCALA, FL 34480
PHONE: 352-789-6009

KEVIN GRAHAM
LAKE CITY, FL 320024
JOB NO. 22-512

DATE
SEPTEMBER 8, 2022

SHEET
3 OF 3