GENERAL REQUIREMENTS

REFER TO SUBSEQUENT PLAN AND DETAIL NOTES FOR VARIATIONS AND REQUIREMENTS SPECIFIC TO REFERENCED PROJECT.

NOTES ON DRAWINGS TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES

DESIGN CRITERIA

BUILDING CODE CONFORMANCE (MEETS OR EXCEEDS REQUIREMENTS):

2015 INTERNATIONAL BUILDING CODE (IBC)
2015 INTERNATIONAL RESIDENTIAL CODE (IRC)
2018 NORTH CAROLINA BUILDING CODE (NCBC)
2018 NORTH CAROLINA RESIDENTIAL CODE (NCRC)

DEAD LOADS:
ROOF DEAD LOAD
FLOOR DEAD LOAD
FLOOR WALL DEAD LOAD
INTERIOR WOOD WALL DEAD LOAD
CMU WALL DEAD LOAD (STUCCO)
CONCRETE

15 PSF 15 PSF 12 PSF 9 PSF 89 PSF 150 PCF

Harnett

FSI PUSH PIERS

FLOOR LIVE LOAD (RESIDENTIAL)

40 PSF

LIVE LOADS: ROOF LIVE LOAD

MATERIALS:
BRACKET PATES – ASTM A36
(MIN YIELD STRESS, Fy = 36 KSI / MIN TENSILE STRESS, Fu = 1)
PER TUBES – ASTM A500 GRADE B OR C
(MIN YIELD STRESS, Fy = 50 KSI / MIN TENSILE STRESS, Fu = 1)
EXTERNAL SLEEVE – ASTM A500 GRADE B 55 KSI) 58 ES)

(MIN YIELD STRESS, Fy = 50 KSI / MIN TENSILE STRESS, Fu = 62 KSI) PIER CAP - ASTM A529 GRADE 50 (MIN YIELD STRESS, Fy = 50 KSI / MIN TENSILE STRESS, Fu = 65 KSI) COIL ROD - ASTM A133 GRADE B7 (MIN YIELD STRESS, Fy = 105 KSI / MIN TENSILE STRESS, Fu = 125 KSI) STREEL ANGLE SHAPES - ASTM A36

(MIN YIELD STRESS, Fy = 36 KSI / MIN TENSILE STRESS, Fu = 58 KSI)

WELDING NOTES:
CONFORM TO AWS D1.1. WELDERS SHALL BE CERTIFIED IN ACCORDANCE WITH AWS REQUIREMENTS. USE
E70 ELECTRODES OF TYPE REQUIRED FOR MATERIALS TO BE WELDED.

CORROSION PROTECTION:
SUCRIFICAL DESIGN THICKNESS - CAPACITIES INCLUDE A SCHEDULED LOSS IN STEEL THICKNESS DUE TO CORROSION FOR BLACK, UNCOATED STEEL, ANCHORS ARE DESIGNED FOR 50-YEAR SCHEDULED SACRIFICIAL THICKNESS LOSS IN ACCORDANCE WITH ICC-ES AC358.

INSTALLATION: System to be installed per manufacturers recommendations. Minimum installation pressure to be determined by the following equation:

PUSH PIER INSTALLATION PRESSURE (PSI): [DESIGN LOAD] X 2 / [AREA OF HYDRAULIC RAM]

MINIMUM INSTALLATION DEPTH IS 10'-0"± UNO

NOTIFY ENGINEER IF MINIMUM INSTALLATION CONDITIONS CANNOT BE ACHIEVED.

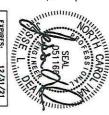
FSI PUSH PIERS (CONT.)

EXISTING UTILITY LINES:
CONTRACTOR TO REPAIR UTILITY LINES THAT MAY BE DAMAGED DURING INSTALLATION.

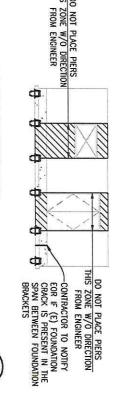
PUSH PIER SPLICING: PILES ARE TO BE GRAVITY SPLICED WITH FITTING COUPLERS. ENSURE JOINTS DO NOT SEPARATE. BUILDING WEIGHT WILL



SPECIAL INSPECTION & TESTING PER REVIEWING JURISDICTION.







SIRI

NO PIER PLACEMENT ZONE

SCALE: NTS

GENERAL NOTES

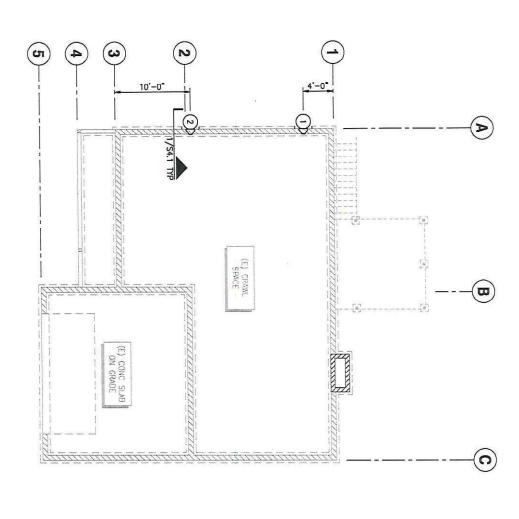
REVISIONS

DRAWN BY: CAF CHECKED BY: JLD PROJECT NO: SE21-237 DESIGNED BY: CAF

SHEET NO:

DATE: 07-22-2021

OLOWOSOGA RESIDENCE UNDERPINNING 62 ANGEL OAK DR BUNNLEVEL, NC 28323





- REFERENCE S1.1 FOR GENERAL REQUIREMENTS
- CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF DISCREPANCIES BETWEEN FIELD CONDITIONS & THOSE SHOWN IN THESE DOCUMENTS PRIOR TO WORK TYP
- INDICATES (E) CMU STEMWALL ON (E) CONC FOOTING (CONTRACTOR TO VERIFY 8"N×3"-0"H (E) CMU STEMWALL AND 1"-4"N×8"DP (E) CONC FOOTING MIN TYP (NOTIFY ENGINEER OF RECORD IF FIELD CONDITIONS DIFFER IN THE AREA OF WORK))



X/SX.X SECTION CUT - DETAIL NUMBER/SHEET NUMBER

FOUNDATION BRACKET PER DETAILS ON \$4.1 ((2) TOTAL)

- PUSH PIER INSTALLATION NOTES:

 MAX LOAD TO ANCHOR = 13,316 LBS

 2.875 % PIPE PILE W/ 0.165" THICK WALL

 3.5%448" LONG PIPE SLEEVE W/ 0.216" WALL

 MINIMUM 10'-0" INSTALLATION DEPTH

 MINIMUM 2,800 PSI INSTALLATION PRESSURE

- MINIMUM 1/4" FOUNDATION LIFT DURING INSTALLATION
- PIER SPACING SHALL BE AS INDICATED ON PLAN
- CONTRACTOR TO NOTIFY ENGINEER OF RECORD IF (E) FOUNDATION CRACK IS PRESENT IN THE SPAN BETWEEN FOUNDATION BRACKETS ALL CONSTRUCTION MATERIALS IN THESE DOCUMENTS ARE (N) UNO

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EXPIRES: 12/31/21

PROJECT NO: SE21-237 DESIGNED BY: CAF DRAWN BY: CAF CHECKED BY: JLD DATE: 07-22-2021

OLOWOSOGA RESIDENCE UNDERPINNING 62 ANGEL OAK DR BUNNLEVEL, NC 28323

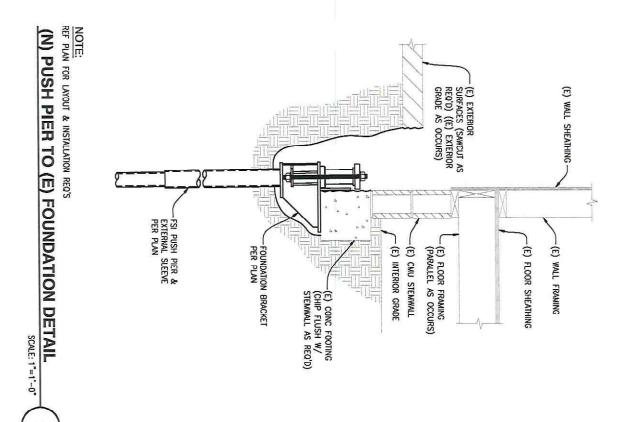
SHEET NO: S2.1

SCALE: 1/8"=1'-0"

(E) FOUNDATION/ (N) PIER LAYOUT PLAN

(E) FOUNDATION/ (N) PIER LAYOUT PLAN

REVISIONS





SHEET NO.

PROJECT NO: SE21-237 DESIGNED BY: CAF CAF CHECKED BY: JUD DATE: 07-22-2021

PIER DETAILS

OLOWOSOGA RESIDENCE UNDERPINNING 62 ANGEL OAK DR BUNNLEVEL, NC 28323

