

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 (SHEETS OR EXCEEDS REQUIREMENTS):

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

DEAD LOADS:

- FLOOR DEAD LOAD 15 PSF
- INTERIOR WOOD WALL DEAD LOAD 9 PSF

LIVE LOADS:

- FLOOR LIVE LOAD (RESIDENTIAL) 40 PSF

DEFLECTIONS:

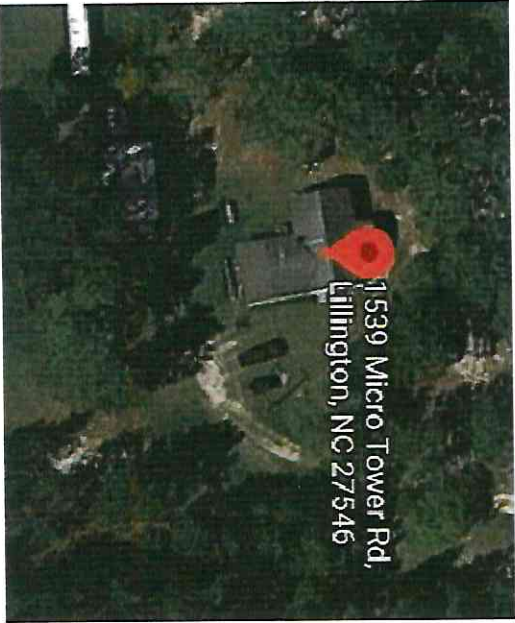
- TOTAL LOAD DEFLECTION LIMIT L/240
- LIVE LOAD DEFLECTION LIMIT L/360

REFERENCE STANDARDS:

CONFORM TO IBC CHAPTER 18 "SOILS & FOUNDATIONS"

DESIGN SOIL VALUES:

ALLOWABLE FOUNDATION PRESSURE (ASSUMED) 1500 PSF



VICINITY MAP

SCALE: NTS



FSI SMARTJACK SYSTEM INFO

PART	DESCRIPTION	COMMENTS	MIN YIELD STRESS, F _y	MIN TENSILE STRESS, F _u
SJ0350T	ASTM A500 GRADE C HD GALV. PER ASTM 123, HSS 3 1/2"x3 1/2"x0.095"X'L SQUARE TUBE		50 KSI	62 KSI
S4x7.7	ASTM A992 STEEL S SHAPE BEAM (L=120" & 144" - FIELD CUT TO LENGTH)	STEEL BEAM CONDITION	50 KSI	65 KSI
SJ0125AIR	ASTM A108 GRADE 1018 1 1/4"Øx0'-10" L THREADED ROD W/ WELDED HEAVY HEX NUT		54 KSI	64 KSI
SJ0350BP-A	ASTM A36 R 5/16"x12x1'-0" ASTM A36 BENT R0.120°	CRUSHED STONE FTG CONDITION PER PLAN	36 KSI	58 KSI
SJ350TPS4	ASTM A36 BENT R 3/8"x3x0'-6" ASTM A53 GRADE B 1 3/4"Øx1/4"x1.38" L CONFINING RING (AT INTERMEDIATE LOCATIONS) OR		36 KSI	58 KSI
SJ350TBS4	ASTM A36 R 3/8"x4 1/2"x0'-5" BOTT BEAM SPLICE BRACKET (AT BEAM SPLICE & END LOCATIONS)	STEEL BEAM CONDITION	36 KSI	58 KSI
SJTBIS4	ASTM A36 R 3/8"x4 1/2"x0'-5" TOP BEAM SPLICE BRACKET W/ (4) ASTM A108 1/2"Øx5 1/2" BOLTS W/ NUTS (ASTM A307 MIN) & ASTM A53 GRADE B 1 3/4"Øx1/4"x1.38" L CONFINING RING (AT BEAM SPLICE & END LOCATIONS)		36 KSI MIN 35 KSI	60 KSI MIN 60 KSI
SJ0350TP-A	ASTM A36 R 3/8"x4 1/2"x0'-4 1/2" ASTM A53 GRADE B 1 3/4"Øx1/4"x1.38" L CONFINING RING	WOOD BEAM CONDITION	36 KSI	58 KSI
SJ0350TI	ASTM A36 BENT R0.120° ASTM A572 GRADE 50 R 3/4"x3.63x0'-3.63" W/ 1 1/4"Ø THREAD TAP		50 KSI	65 KSI

NOTE:
INSTALL PER MFR RECOMMENDATIONS



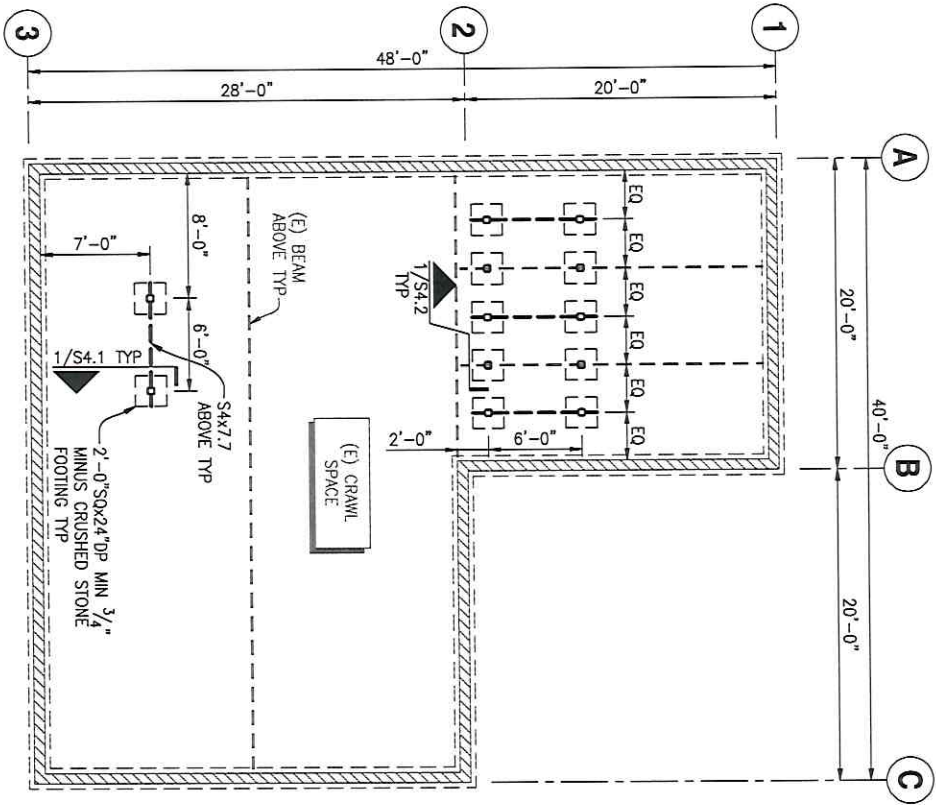
FORTENBERRY RESIDENCE
FLOOR SUPPORT
 1539 MICRO TOWER RD
 LILLINGTON, NC 27546

GENERAL NOTES

REVISIONS

PROJECT NO: SE21-072
 DESIGNED BY: MKN
 DRAWN BY: MKN
 CHECKED BY: JLD
 DATE: 03.16.2021

SHEET NO: **S1.1**



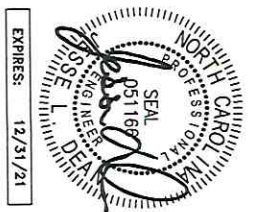
(E) FOUNDATION/(N) SMARTJACK LAYOUT PLAN

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



(E) FOUNDATION/(N) SMARTJACK LAYOUT PLAN NOTES:

1. REFERENCE S1.1 FOR GENERAL REQUIREMENTS
2. CONTRACTOR TO NOTIFY ENGINEER OF RECORD OF DISCREPANCIES BETWEEN FIELD CONDITIONS & THOSE SHOWN IN THESE DOCUMENTS PRIOR TO WORK TYP
3. INDICATES (E) CMU STEMWALL ON (E) CONC FOOTING
4. SECTION CUT - DETAIL NUMBER/SHEET NUMBER
5. INDICATES LOCATION OF FSI S1.Q350 SMARTJACK
 • ((10) TOTAL)
 • MAX LOAD TO SMARTJACK = 1,823 LBS
6. SMARTJACK SPACING SHALL BE AS INDICATED ON PLAN (6'-0" OC MAX) UNO
7. ALL FASTENERS AND HARDWARE IN CONTACT W/ PT WOOD, CONCRETE OR MASONRY SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL
8. REPLACE "N-KIND" ALL (E) WOOD MEMBERS (JOISTS, PURLINS, SUBPURLINS, SHEATHING, STUDS, WALL PLATES) WHICH SHOW SIGNS OF DRY ROT OR STRUCTURAL DAMAGE
9. ALL CONSTRUCTION MATERIALS ON PLANS, ELEVATIONS & DETAILS ARE (N) UNO



EXPIRES: 12/31/21

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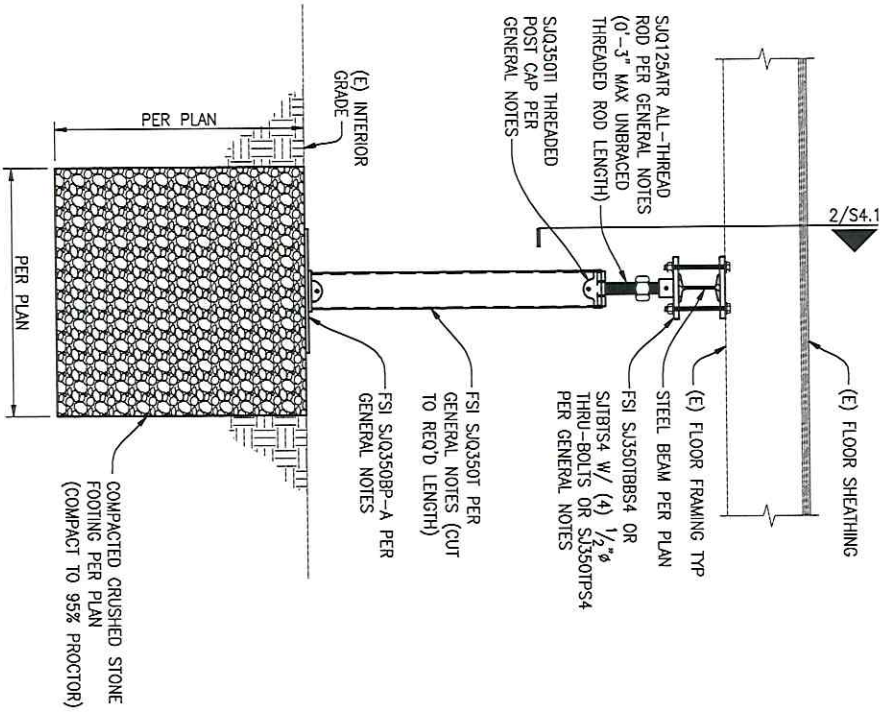


(E) FOUNDATION/
 (N) SMARTJACK
 LAYOUT PLAN

REVISIONS

PROJECT NO:
 SE21-072
 DESIGNED BY:
 MER
 DRAWN BY:
 JLD
 CHECKED BY:
 JLD
 DATE:
 03.16.2021

SHEET NO:
S2.1

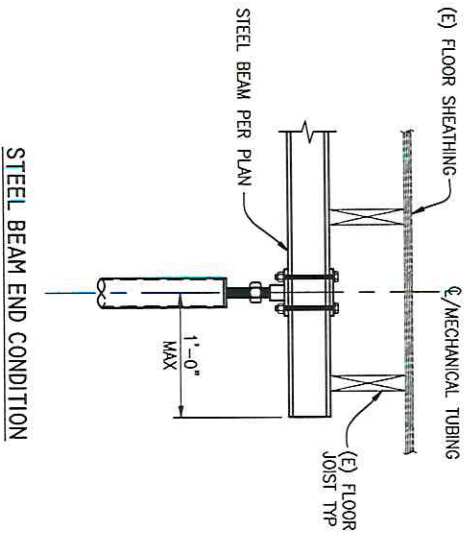


- NOTES:
1. REF PLAN FOR LAYOUT & INSTALLATION REQ'S
 2. INSTALL PER MFR RECOMMENDATIONS

FSJ SMARTJACK IN CRAWLSPACE

SCALE: 1"=1'-0"

1



- NOTE:
1. REF 1/S4.1 FOR CALLOUTS IN COMMON

(N) SMARTJACK W/ SUPPLEMENTAL BEAM

SCALE: 1"=1'-0"

2



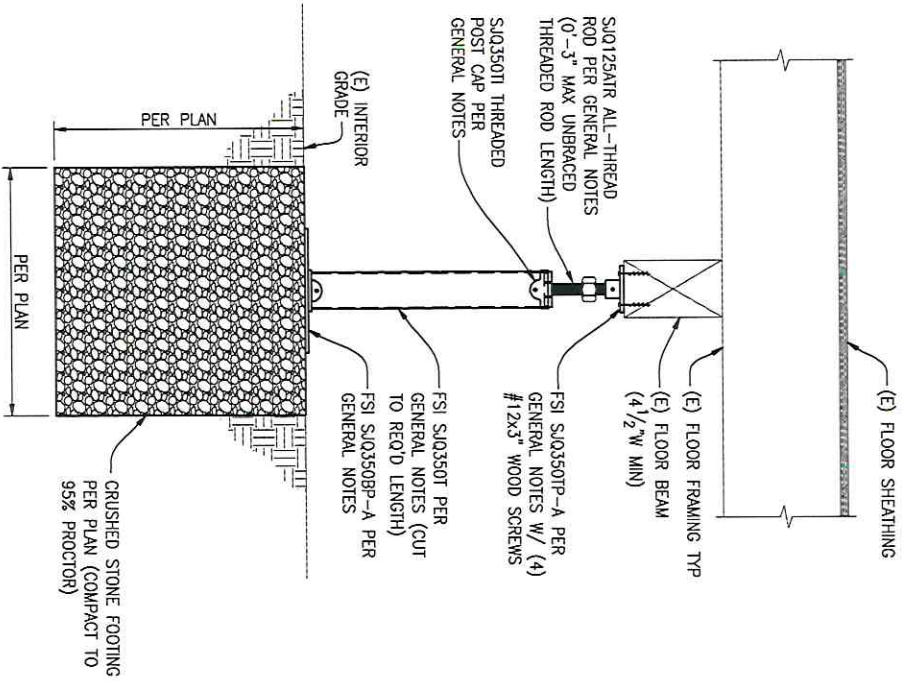
FORTENBERRY RESIDENCE
FLOOR SUPPORT
 1539 MICRO TOWER RD
 LILLINGTON, NC 27546

SMARTJACK
 DETAILS

REVISIONS

PROJECT NO: SEP1.072
 DESIGNED BY: MRM
 DRAWN BY: DPK
 CHECKED BY: JLD
 DATE: 03.16.2021

SHEET NO: **S4.1**



- NOTES:
1. REF PLAN FOR LAYOUT & INSTALLATION REQ'S
 2. INSTALL PER MFR RECOMMENDATIONS

FSI SMARTJACK IN CRAWLSPACE

SCALE: 1"=1'-0"

1



FORTENBERRY RESIDENCE
FLOOR SUPPORT
 1539 MICRO TOWER RD
 LILLINGTON, NC 27546

SMARTJACK
 DETAIL

REVISIONS

PROJECT NO:
 SE21-072
 DESIGNED BY:
 MER
 DRAWN BY:
 JLD
 CHECKED BY:
 JLD
 DATE:
 03.16.2021

SHEET NO:
S4.2