

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:

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

LIVE LOADS:

FLOOR LIVE LOAD (RESIDENTIAL) 40 PSF

DEFLECTIONS:

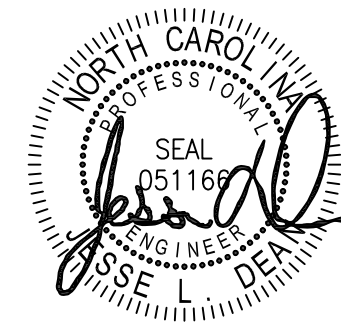
TOTAL LOAD DEFLECTION LIMIT L/240
 LIVE LOAD DEFLECTION LIMIT L/360

REFERENCE STANDARDS:

CONFORM TO IBC CHAPTER 18 "SOILS & FOUNDATIONS"

DESIGN SOIL VALUES:

ALLOWABLE FOUNDATION PRESSURE (ASSUMED) 1500 PSF



EXPIRES: 12/31/22
 DATE SIGNED: 02/21/22



GILBERT RESIDENCE FLOOR SUPPORT

619 RAIFORD RD
 ERWIN, NC 28339

FSI SMARTJACK SYSTEM INFO				
PART	DESCRIPTION	COMMENTS	MIN YIELD STRESS, F _y	MIN TENSILE STRESS, F _u
SJQ350T	ASTM A500 GRADE C HD GALV, PER ASTM 123, HSS 3 1/2x3 1/2x0.095"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
SJQ125ATR	ASTM A108 GRADE 1018 1 1/4"Øx0'-10"L THREADED ROD W/ WELDED HEAVY HEX NUT		54 KSI	64 KSI
SJQ350BP-C	ASTM A572 GRADE 50 P 3/16x16x3'-0" ASTM A572 GRADE 50 P 3/16x3 1/2" STIFFENERS	COMPETENT NATIVE SOIL W/ SAND FTG CONDITION PER PLAN	50 KSI	65 KSI
SJ350TPS4	ASTM A36 BENT P 3/16x3x0'-6" ASTM A53 GRADE B 1 3/4"Øx1/4"x1.38"L CONFINING RING (AT END & INTERMEDIATE LOCATIONS)	STEEL BEAM CONDITION	36 KSI 35 KSI	58 KSI 60 KSI
SJQ350TP-A	ASTM A36 P 3/8x4 1/2x0'-4 1/2" ASTM A53 GRADE B 1 3/4"Øx1/4"x1 3/8"L CONFINING RING	WOOD BEAM CONDITION	36 KSI 35 KSI	58 KSI 60 KSI
SJQ350TI	ASTM A36 BENT P 0.120" ASTM A572 GRADE 50 P 3/4x3.63x0'-3.63" W/ 1 1/4"Ø THREAD TAP		36 KSI 50 KSI	58 KSI 65 KSI

NOTE:
 INSTALL PER MFR RECOMMENDATIONS

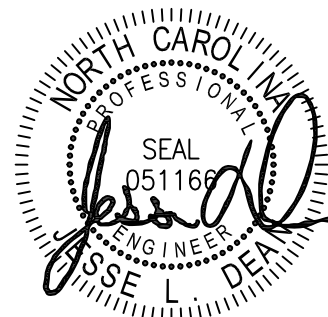
GENERAL NOTES

REVISIONS

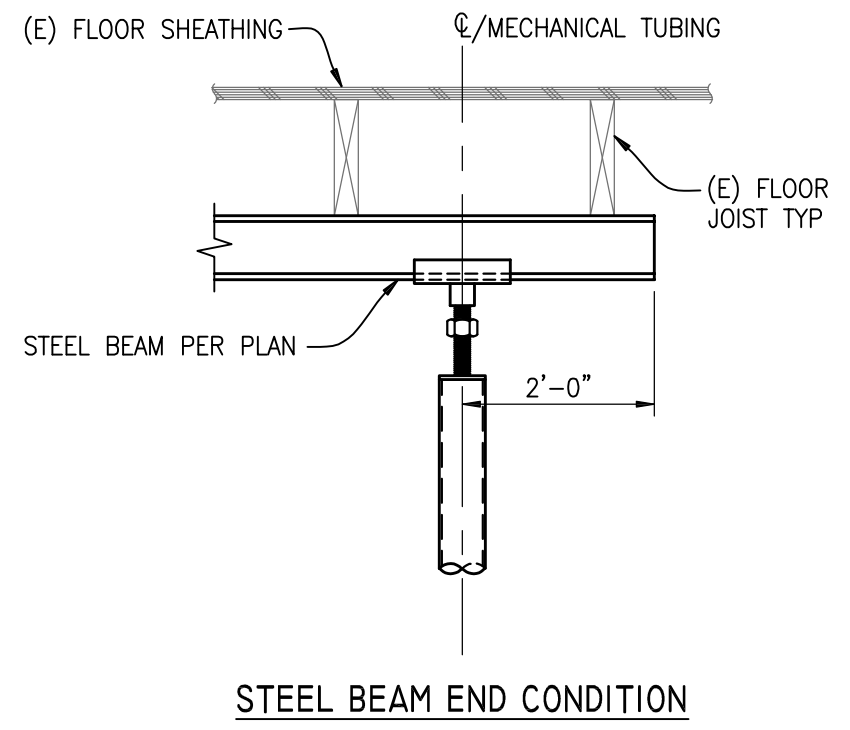
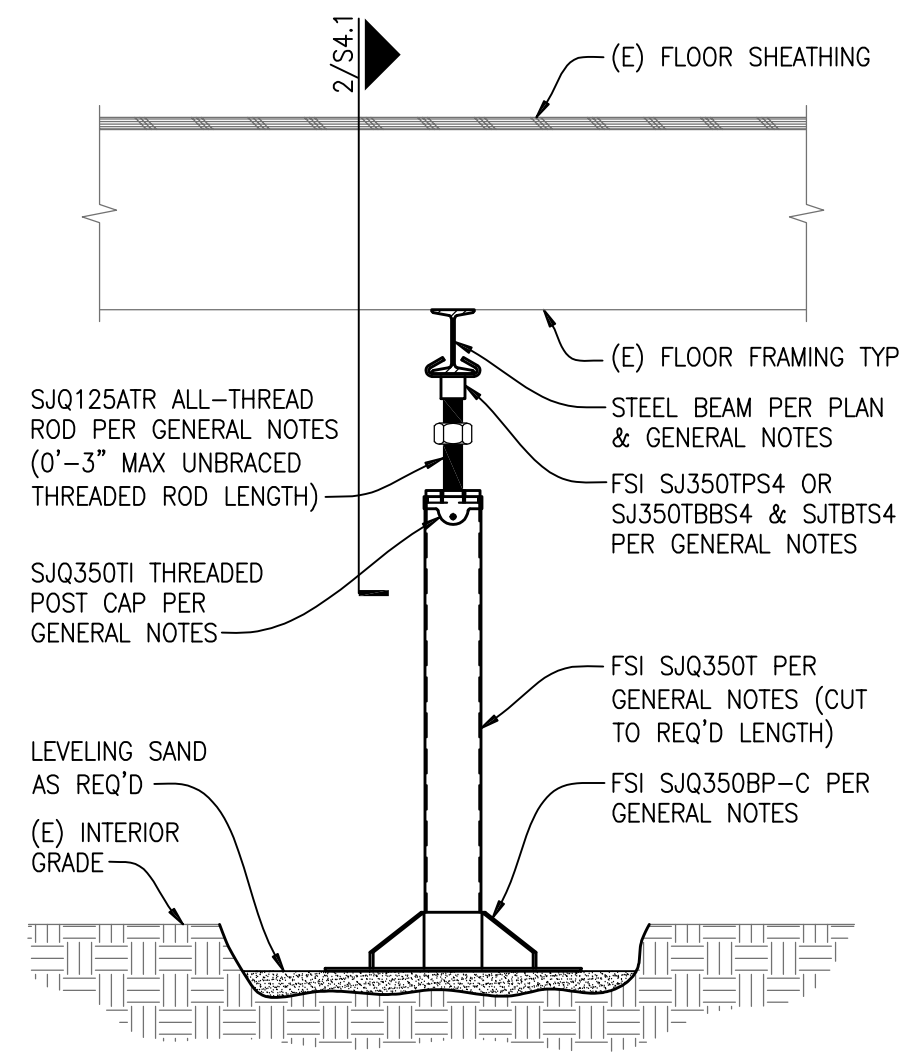
PROJECT NO: SE22-045
 DESIGNED BY: ST
 DRAWN BY: ST
 CHECKED BY: JLD
 DATE: 02-21-2022

SHEET NO:

S1.1



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NOTES:

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

FSI Sjq350 SMARTJACK IN CRAWLSPACE 1
SCALE: 1"=1'-0"

NOTE:

REF 1/S4.1 FOR CALLOUTS IN COMMON

(N) SMARTJACK W/ SUPPLEMENTAL BEAM 2
SCALE: 1"=1'-0"

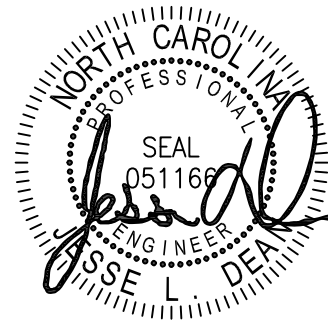
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SMARTJACK
DETAILS

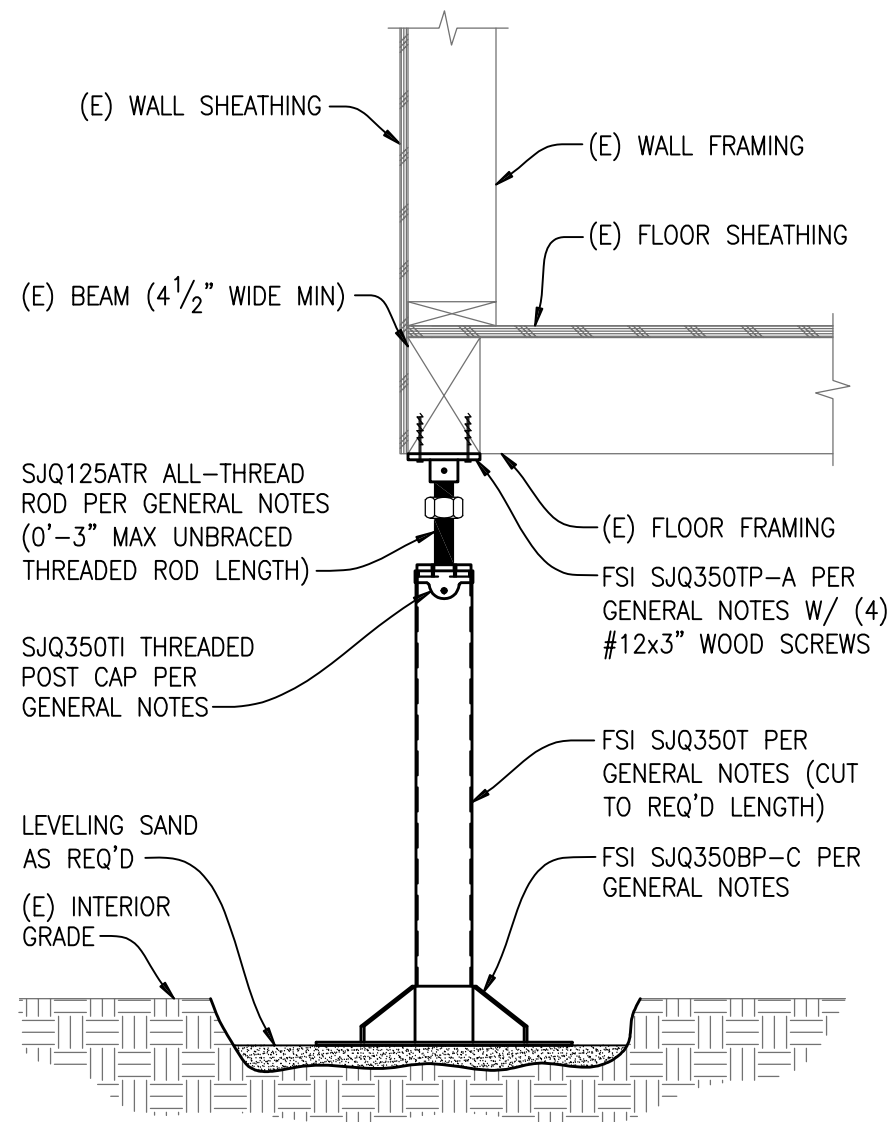
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PROJECT NO:
SE22-045
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SMARTJACK
 DETAIL

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SHEET NO:
S4.2