



Application # _____

Harnett County Central Permitting

PO Box 65 Lillington, NC 27546
910-893-7525 Fax 910-893-2793 www.harnett.org/permits

* Each section below to be filled out by whomever performing work. Must be owner/occupier or licensed contractor. Address, company name & phone must match information on license.

Application for Residential Building and Trades Permit

Owner's Name: Robert Nelson Date: _____

Site Address: 10110 Nc 27 W Lillington Nc 27546 Phone: 910-987-7473

Subdivision: _____ Lot: _____

Description of Proposed Work: install 9 smartjacks & 48ft of steel beam to help support floors Total Job Cost: 6600

General Contractor Information

Southeast Foudation Repair LLC 910-299-0198

Building Contractor's Company Name Telephone

709 1/2 Southwest Blvd Clinton Nc amandap.sefr@gmail.com

Address Email Address

NA HEATED SQ FT GARAGE SQ FT

License #

Electrical Contractor Information

Description of Work _____ Service Size: _____ Amps T-Pole: Yes No

Electrical Contractor's Company Name Telephone

Address Email Address

License #

Mechanical/HVAC Contractor Information

Description of Work _____

Mechanical Contractor's Company Name Telephone

Address Email Address

License #

Plumbing Contractor Information

Description of Work _____ # Baths _____

Plumbing Contractor's Company Name Telephone

Address Email Address

License #

Insulation Contractor Information

Insulation Contractor's Company Name & Address Telephone

***NOTE: General Contractor / owner must fill out and sign the second page of this application.**



I hereby certify that I have the authority to make necessary application, that the application is correct and that the construction will conform to the regulations in the Building, Electrical, Plumbing and Mechanical codes, and the Harnett County Zoning Ordinance. I state the information on the above contractors is correct as known to me and that **by signing below I have obtained all subcontractors permission to obtain these permits** and if **any** changes occur including listed contractors, site plan, number of bedrooms, building and trade plans, Environmental Health permit changes or proposed use changes, I certify it is my responsibility to notify the Harnett County Central Permitting Department of any and all changes.

EXPIRED PERMIT FEES - 6 Months to 2 years permit re-issue fee is \$150.00. After 2 years re-issue fee is as per current fee schedule.

George Herring

Signature of Owner/Contractor/Officer(s) of Corporation

02/23/21

Date

Affidavit for Worker's Compensation N.C.G.S. 87-14

The undersigned applicant being the:

General Contractor Owner Officer/Agent of the Contractor or Owner

Do hereby confirm under penalties of perjury that the person(s), firm(s) or corporation(s) performing the work set forth in the permit:

Has three (3) or more employees and has obtained workers' compensation insurance to cover them.

Has one (1) or more subcontractors(s) and has obtained workers' compensation insurance to cover them.

Has one (1) or more subcontractors(s) who has their own policy of workers' compensation insurance covering themselves.

Has no more than two (2) employees and no subcontractors.

While working on the project for which this permit is sought it is understood that the Central Permitting Department issuing the permit may require certificates of coverage of worker's compensation insurance prior to issuance of the permit and at any time during the permitted work from any person, firm or corporation carrying out the work.

Sign w/Title:

George Herring

General Manager

Date: 02/23/21

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 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

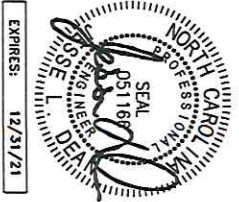
REFERENCE STANDARDS:
 CONFORM TO IBC CHAPTER 18 "SOILS & FOUNDATIONS"

DESIGN SOIL VALUES:
 ALLOWABLE FOUNDATION PRESSURE (ASSUMED) 1500 PSF

FSI SMARTJACK SYSTEM INFO

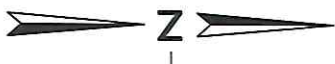
PART	DESCRIPTION	COMMENTS	MIN YIELD STRESS, F _y	MIN TENSILE STRESS, F _u
SJ0350T	ASTM A500 GRADE C HD GALV. PER ASTM 123, HSS 3 1/2"x3 1/2"x0.095"x1" SQUARE TUBE		50 KSI	62 KSI
S4x7.7	ASTM A992 STEEL S SHAPE BEAM (L=120" & 144" - FIELD CUT TO LENGTH)	(N) STEEL BEAM	50 KSI	65 KSI
SJ350TP	ASTM A36 R ³ /8"x4 1/2"x0'-4 1/2" ASTM A53 GRADE B 1 3/4"x0 1/4"x1.38" CONFINING RING	WOOD BEAM CONDITION	36 KSI 35 KSI	58 KSI 60 KSI
SJ0125AIR	ASTM A108 GRADE 1018 1 1/4"x0'-10" L THREADED ROD W/ WELDED HEAVY HEX NUT		54 KSI	64 KSI
SJ0350BP-A	ASTM A36 R ³ /8"x12x1'-0" ASTM A36 BENT RQ.120"	CRUSHED STONE FTG PER PLAN	36 KSI 36 KSI	58 KSI 58 KSI
SJ350TPS4	ASTM A36 BENT R ³ /8"x3x0'-6" ASTM A53 GRADE B 1 3/4"x0 1/4"x1.38" CONFINING RING (AT INTERMEDIATE LOCATIONS)		36 KSI 35 KSI	58 KSI 60 KSI
SJ350TB8S4	ASTM A36 R ³ /8"x4 1/2"x0'-5" BOTI BEAM SPLICE BRACKET (AT BEAM SPLICE & END LOCATIONS) OR	STEEL BEAM CONDITION	36 KSI	58 KSI
SJTB1S4	ASTM A36 R ³ /8"x4 1/2"x0'-5" TOP BEAM SPLICE BRACKET W/ (4) ASTM A108 1 1/2"x0.5x1/2" BOLTS W/ NUTS (ASTM A307 MIN) &ASTM A53 GRADE B 1 3/4"x0 1/4"x1.38" L CONFINING RING (AT BEAM SPLICE & END LOCATIONS)		36 KSI 35 KSI	58 KSI 60 KSI
SJ0350T1	ASTM A36 BENT RQ.120" ASTM A572 GRADE 50 R ³ /8"x3.63x0'-3.63" W/ 1 1/4" THREAD TAP		36 KSI 50 KSI	58 KSI 65 KSI

NOTE: INSTALL PER MFR RECOMMENDATIONS



VICINITY MAP

SCALE: NTS



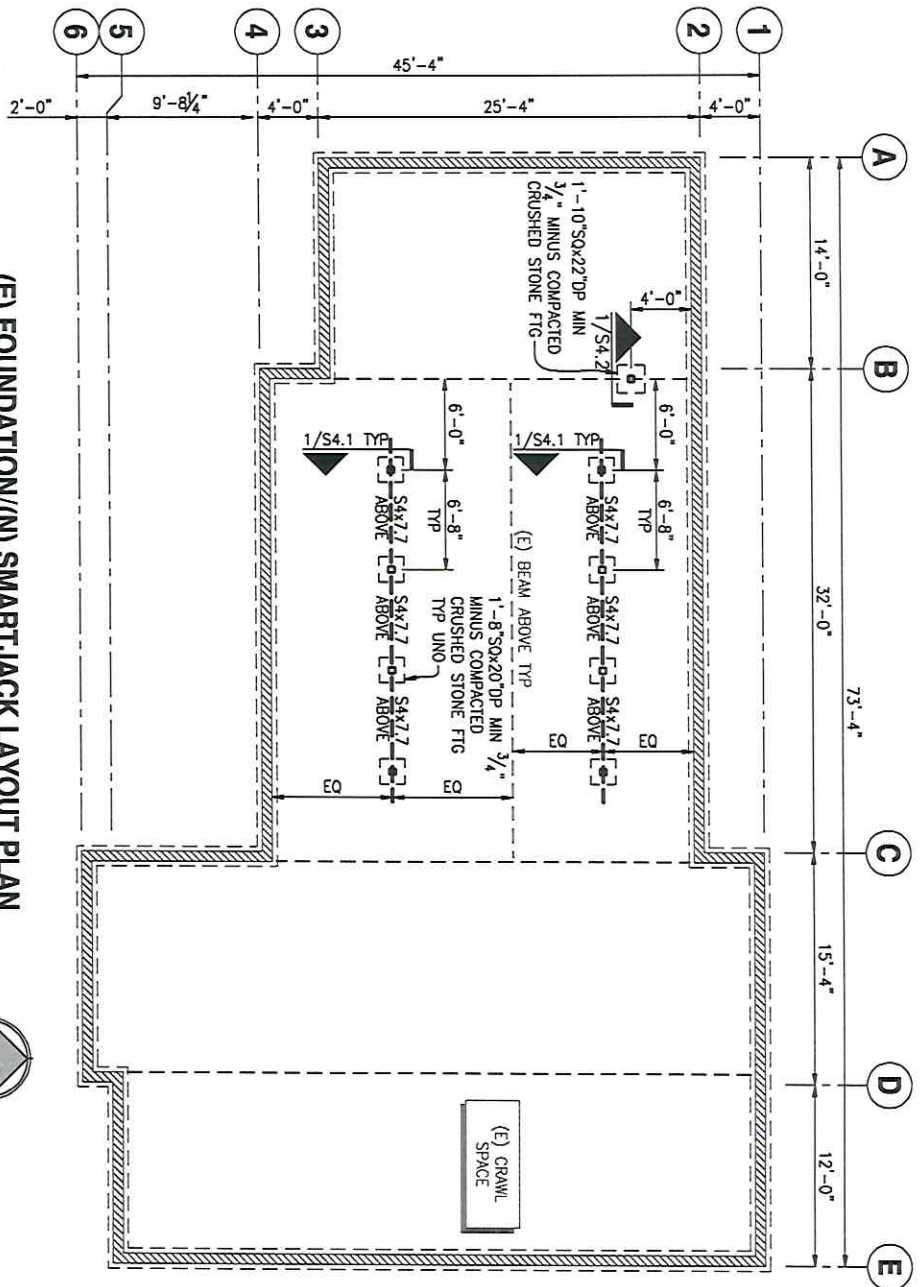
PROJECT NO: SE21-057
 DESIGNED BY: JN
 DRAWN BY: CVR, JLD
 CHECKED BY: CVR, JLD
 DATE: 02-22-2021

REVISIONS

GENERAL NOTES

NELSON RESIDENCE
FLOOR SUPPORT
 10110 NC-27
 LILLINGTON, NC 27546

SHEET NO: **S1.1**



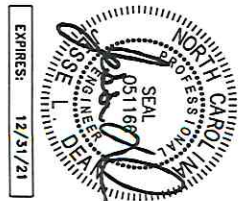
(E) FOUNDATION/(N) SMARTJACK LAYOUT PLAN

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 S40350 SMARTJACK (9) TOTAL
• MAX LOAD TO SMARTJACK = 4,224 LBS
6. SMARTJACK SPACING SHALL BE AS INDICATED ON PLAN (6'-8" 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



NELSON RESIDENCE
FLOOR SUPPORT
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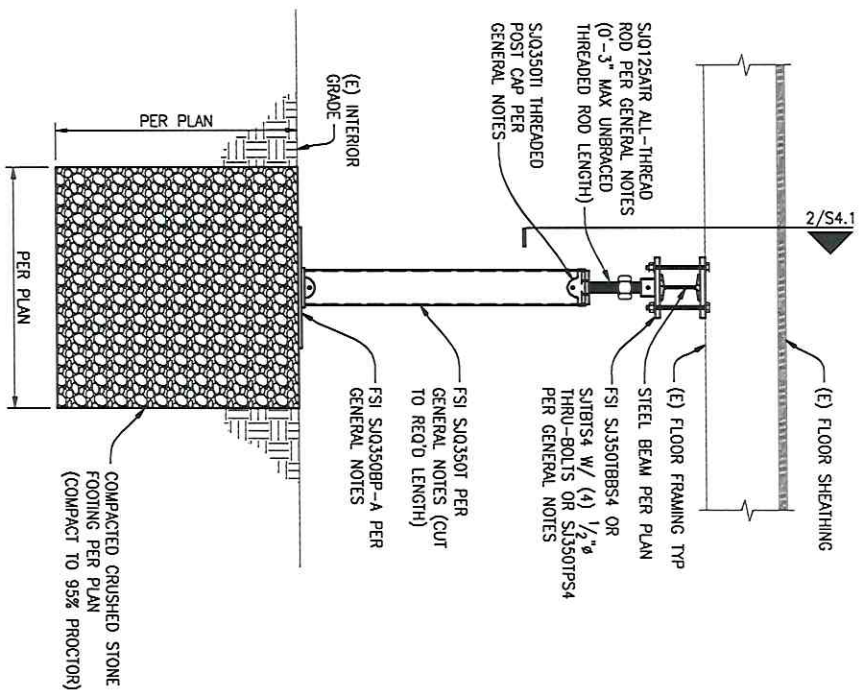
(E) FOUNDATION/
 (N) SMARTJACK
 LAYOUT PLAN

REVISIONS

NO.	DESCRIPTION

PROJECT NO.: SE21-057
 DESIGNED BY: JN
 DRAWN BY: JN
 CHECKED BY: JN
 DATE: 02-22-2021

SHEET NO.: **S2.1**

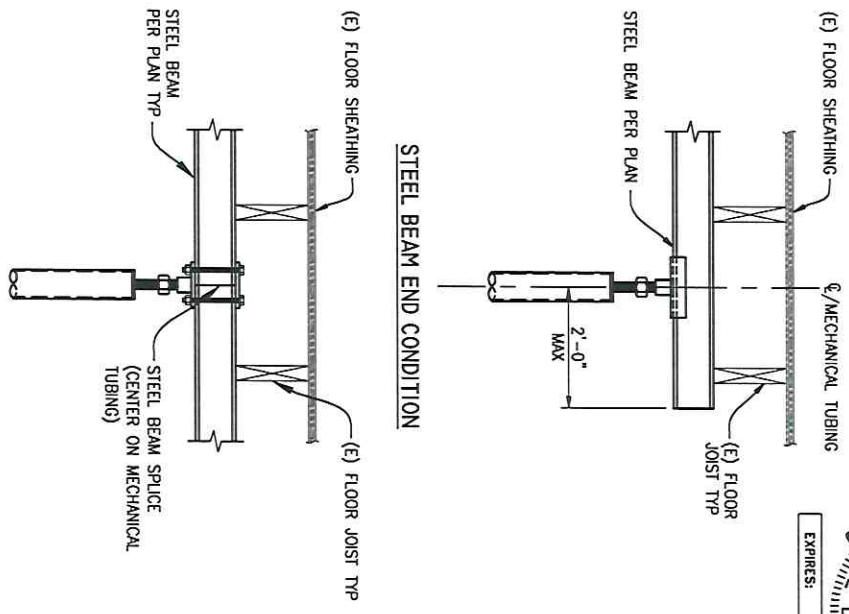


- NOTES:
1. REF PLAN FOR LAYOUT & INSTALLATION REQ'S
 2. INSTALL PER MFR RECOMMENDATIONS

FSI SMARTJACK W/ (N) STEEL BEAM

SCALE: 1"=1'-0"

1

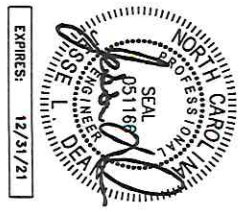


- NOTE:
1. REF 1/S4.1 FOR CALLOUTS IN COMMON

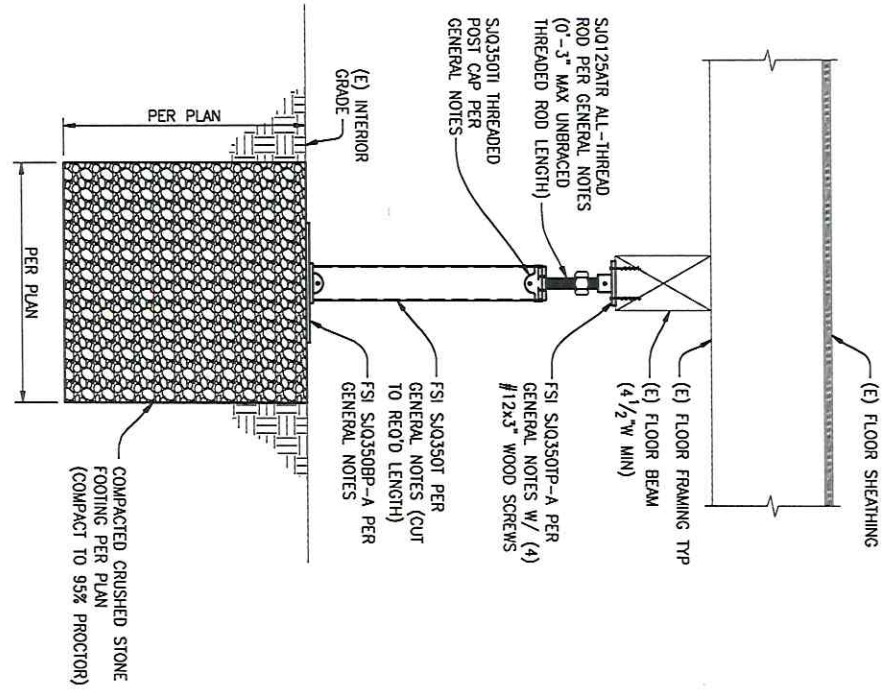
FSI SMARTJACK CONNECTIONS

SCALE: 1"=1'-0"

2



	<p>SFA Design Engineering, LLC 10110 NC-27 LILLINGTON, NC 27546</p>									
	<p>NELSON RESIDENCE FLOOR SUPPORT 10110 NC-27 LILLINGTON, NC 27546</p>									
<p>SHEET NO: S4.1</p>	<p>SMARTJACK DETAILS</p>									
<p>REVISIONS</p> <table border="1"> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>										<p>PROJECT NO: SE21-057 DESIGNED BY: JN DRAWN BY: JN CHECKED BY: JLD DATE: 02-22-2021</p>



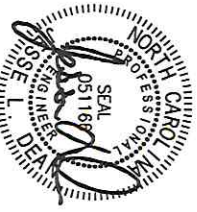
- NOTES:
1. REF PLAN FOR LAYOUT & INSTALLATION REQS
 2. INSTALL PER MFR RECOMMENDATIONS


FSI SMARTJACK TO (E) BEAM

SCALE: 1"=1'-0"

1

EXPIRES: 12/31/21



 <p>SFA Design Group, LLC Professional Engineering 1000 S. Salisbury Blvd., Suite 200 Lillington, NC 27546 P: 919.487.7000</p>	<p>NELSON RESIDENCE FLOOR SUPPORT 10110 NC-27 LILLINGTON, NC 27546</p>		<p>SMARTJACK DETAILS</p>	<p>REVISIONS</p> <table border="1"> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>															
<p>SHEET NO: S4.2</p>	<p>PROJECT NO: SE21457 DESIGNED BY: JN DRAWN BY: JN CHECKED BY: CJR, JLD DATE: 02/22/2021</p>																		