1 of 4

SHEET NO.

S1

ENG: DJH DATE: 10-3-2023 PROJECT NO. 23-64-146

SCOPE

PRELIMINARY: DO NOT USE FOR CONSTRUCTION

STRUCTURAL ENGINERS Licerse No. C:3870 318 W Millbrook Rd. Unit 201 Raleigh, North Carolina Z/609 Phone (919) 844-1661

ech

REV # REF PROJ #

KEITH RD. SANFORD

 \leq 486

500

HOUSE CONVERSION TO GARAGE

RAYNOR BUILDERS INC

NOTES:

-ALL EXISTING FRAMING CONDITIONS MUST BE VERIFIED BY GENERAL CONTRACTOR AT TIME OF DEMOLITION. ENGINEERING TECH ASSOCIATES SHALL BE NOTIFIED IMMEDIATELY OF ANY AND ALL DISCREPANCIES PRIOR TO RECONSTRUCTION.

-EXISTING 8" CMU FND WALLS, TYP.

INDICATES MASONRY WALLS PERMITTED TO BE REMOVED

CENTER OPENING
-BETWEEN
ADJACENT WALLS

CENTER OPENING BETWEEN
ADJACENT WALLS 9'-4" MAX NEW MASONRY

9'-4" MAX NEW MASONRY OPENING

MIN. TO REMAIN

TO REMAIN

EXISTING SLAB ON GRADE

EXISTING FIREPLACE

2'-0" MIN. TO REMAIN. TYP.

9'-4" MAX NEW MASONRY OPENING

BUILDER FIELD VERIFY EXISTING FOOTING HAS MIN. 4" PROJECTION X 8" THICK

-EXISTING 2X8 JOISTS-**→** [X] EXISTING FULL HEIGHT 8" NOMINAL CMU WALLS -EXISTING 2X8 JOISTS-CONTINUOUS P.T. (4) 2X12, P.T. (4) 2X12, BOTTOM FLUSH DROPPED. BEAR INTO 4" MASONRY POCKET EACH END REMOVE COURSES AS REQUIRED FOR BEAM BEARING ON-INTERMEDIATE WALL SEGMENT JOISTS TO BOTTOM FLUSH BEAMS WITH— SIMP. HGR. LUS28, TYP. BEAR 4" MIN. ONTO EXISTING WALL, TYP. P.T. (4) 2X12, BOTTOM FLUSH EXISTING 2X8 JOISTS **OSTING MASONRY FIREPLACE** SD1 EX EX -EXISTING 2X8 JOISTS-

EXISTING ATTACHED ADDITION WILL NOT BE TOUCHED DURING THIS RENO

EX

EX

NOTES:

-ALL EXISTING FRAMING CONDITIONS MUST BE VERIFIED BY GENERAL CONTRACTOR AT TIME OF DEMOLITION ENGINEERING TECH ASSOCIATES SHALL BE NOTIFIED IMMEDIATELY OF ANY AND ALL DISCREPANCIES PRIOR TO RECONSTRUCTION. PRELIMINARY: DO NOT USE FOR CONSTRUCTION

STRUCTURAL ENCINERS
License No. C:3870
318 W Millbrook Rd. Unit 201
Raleigh, North Carolina Z/609
Phone (979) 844-1661 ngineering ech

REV # REF PROJ # HOUSE CONVERSION TO GARAGE RAYNOR BUILDERS INC KEITH RD. SANFORD × 486 SCOPE 1000

ENG: DJH DATE: 10-3-2023

PROJECT NO. 23-64-146

> SHEET NO. S2

2 of 4

HEADER SCHEDULE EX EXISTING HEADER, NO LOAD CHANGES AT EXISTING OPENING, TYP. U.N.O.

1ST FLOOR FRAMING PLAN

WALLS AND CEILING 1/4" = 1'-0"

PRELIMINARY: DO NOT USE FOR CONSTRUCTION NOTES:

-ALL EXISTING FRAMING CONDITIONS MUST BE VERIFIED BY GENERAL CONTRACTOR AT TIME OF DEMOLITION. ENGINEERING TECH ASSOCIATES. SHOULD BE NOTIFIED IMMEDIATELY OF ANY AND ALL DISCREPANCIES PRIOR TO RECONSTRUCTION. STRUCTURAL ENCINERS
License No. C:3870
318 W Millbrook Rd. Unit 201
Raleigh, North Carolina Z/609
A. ngineering ech NOTE: ALL ROOF FRAMING IS EXISTING, NO CHANGES BEING MADE, SHOWN FOR LOADING PURPOSES ONLY DATE RAYNOR BUILDERS INC HOUSE CONVERSION TO CARACE KETTH RD. SANFORD REV # REF PROJ # ■ DN 3 : 12 EXISTING DN 3 : 12 EXISTING VIC KEITH RD. SANFORD 486 100 SCOPE ENG: DJH EXISTING ROOF CONTINUES OVER EXISTING ADDITION, NO CHANGES DATE: 10-3-2023 PROJECT NO. 23-64-146 SHEET NO. **S3** ROOF FRAMING PLAN 1/4" = 1'-0"

3 of 4

CONSTRUCTION SPECIFICATIONS 7.03 MORTAR SHALL BE TYPE S. MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN COMPRESSIVE STRENGTH OF 2000 PS. PART 1: GENERAL 1.01 CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 FORTON. MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF ACI 530 1.02 DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS. LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951, 6" MIN LAPS FOR CONTINUOUS WALL APPLICATIONS METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION. 1.05 PART 8: BOLTS AND LAG SCREWS Bolts shall conform to astm aso7 minimum grade TYP uno. Install standard Steel Washers (astm f844–070) for the nut / bolt head when bolting wood members 2.01 DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW: LAG SOREWS SHALL CONFORM TO ANS/ASME STANDARD B18.2.1-1981, PILOT HOLES SHALL BE USED FOR LAG SOREW INSTALLATION AND SHALL BE BORED ACCORDING TO MOS SPECIFICATIONS. INSTALL STANDARD STEEL WASHERS (ASTM F844-07a) FOR SOCIEW F440 HSE LIVE LOAD (PSF) DEAD LOAD (PSF) BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, DWELLING UNITS INCLUDING ATTICS WITH FIXED STAIR ACCESS, STAIRS, FIRE ESCAPES ANCHOR RODS AND BOLTS SHALL CONFORM TO ASTM F1554-15 GRADE 36 UNO. BENT ANCHOR BOLTS SHALL HAVE A 2" MIN HOOK UNO 10 ATTICS (NO STORAGE, LESS THAN 5' HEADROOM) 10 10 PART 9: DRIVEN FASTENERS ATTICS (WITH STORAGE) 20 ROOF 20 10 (15 FOR VAULTS) NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F 1667-05. NAILS ARE TO BE COMMON WIRE OR BOX NOTES: — BUILDER TO VERFY DEAD LOAD DOES NOT EXCEED 10 PSF WHEN HEAVY FLOOR OR ROOF FINISHES SLICH AS TILLE OR SLATE ARE UTILIZED. NOTIFY ENGINEERING UNDER THESE CONDITIONS PART 10: DIMENSIONAL LUMBER SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SPRUCE PINE FIR QR SYP #2 FOR JOSTS, RATTERS, GRIDERS, BEAMS, STUDS, ETC. 2.03 BASIC WIND DESIGN VELOCITY OF 120 MPH. PART 12: PRESSURE TREATED LUMBER 2.04 SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE). LUMBER IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDINGE WITH AWAY STANDARD C-15, ALL DIHER EXPOSED LUMBER SHALL BE TREATED IN ACCORDIANCE WITH AWAYA STANDARD C-2 OR BY ANY METHOD GWING EGUAL, PROTECTION, THE BULDING CODE GRITICE MAY ALSO APPROVE A NATURAL PART 5: CONCRETE AND SLABS ON GRADE 5.01 CAST IN PLACE CONCRETE SHALL BE OF NORMAL MEIGHT, BY AIR ENTRAINMENT, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO. ALL CONGRETE, INCLUDING CONCRETE FOR FOOTINGS, IS TO BE CAST IN PLACE, TYP UNO. DECAY RESISTANT WOOD PER SECTION 19-6(A) 5.02 REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN 15.01 ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EXTRON. SOLIO SAWN LUNGER JOISTS THAT ARE CANCED TO FORM A BEAM SHALL HAVE ADJACENT NEWMERS IN THE BEAM MALED TOCENER WITH THREE RONG OF TON MALS 0 16" O.C. FOR 2X10 OR LARGER, TWO RONGS OF 104 MALS 0 16" O.C. FOR 2X8, ONE ROW OF 104 MALS 0 15" O.C. FOR 2X8 OR SMALLER, STAGER ROWS 5" MAL SLABS ON CRADE, IF ANY, SHALL CONTAIN SYNTHETIC POLYPROPYLENE FIBRILLATED MORN FRIERS, RIBER LIGHTH 1/2", DOSAGE RATE 1 1/2 LBS/GU YO, SLAB TO BE PLACED ON A 6 MIL VAPOR BARRIER ON 2" MIN GRANULAR FILL ON SOL WITH 1900 MIN STANDARD PROCIED EDISTIV. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT IN ENCLOSED AREAS. PART 18: SUBSTITUTIONS MATERIAL OR MEMBER SIZE SUBSTITUTIONS OR PLAN DEVATIONS REQUIRE THE WRITTEN AUTHORIZATION OF THE DESIGNERS. UNAUTHORIZED DEVATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. PART 6: REBAR AND WIRE REINFORCEMENT 6.01 REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO PART 19: OWNERSHIP OF STRUCTURAL DESIGN 6.02 LAP SPLICES SHALL BE CLASS B AS DEFINED BY AC 318, TYP UNO THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY OF ENGINEERING TECH ASSOCIATES (ETA). THESE PLANS ARE FOR THE ONE TIME USE AT THE LOCATION INDICATED AND FOR THE CLIENT LISTED. ETA ASSUMES NO LIABILITY FOR THESE PLANS IF THEY ARE REPREOUZED, IN WHOLE OR IN PART, FOR CONSTRUCTION AT ANY OTHER LOCATION WITHOUT WRITTEN PERMISSION FROM ETA. 19.01 6.03 WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064. 7.01 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT, I'M = 1,500 PSI MIN 7.02 CLAY MASONRY UNITS SHALL CONFORM TO ASTM C62-17 GRADE SW **ABBREVIATIONS** NOTES ABV ABOVE B. BOTH B.E. BOTH ENDS FND FOUNDATION FTG FOOTING THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER TYP TYPICAL SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE FOLLOWING CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION: HDG HOT DIPPED TRPL TRIPLE TSP TRIPLE STUD POCK BETWEEN CAST IN PLACE CONCRETE GALVANIZED HGR HANGER LVL LAMINATED VENEER THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION UNO UNLESS NOTED CONC UTHERMICE CONTINUOUS SHEATHING DIAMETER CS DIA LUMBER NTS NOT TO SCALE any errors due to a failure to follow the above procedures shall not be the responsibility of the eor. Furthermore, it is the responsibility of the builder to ensure than any revisions issued by the eor are promply distributed to the DBL DOUBLE JOIST DSP DBL STUD POOK EQ EQUAL EA EACH FLG FLANGE FL PL FLITCH PLATE O.C. ON CENTER PSL PARALLEL STRAND DOUBLE JOIST DBL STUD POCKET LUMBER PT PRESSURE TREATED THE EOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER QJ QUAD JOIST SP STUD POCKET CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING. SQ SQUARE ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL FLR FLOOR TRUSS DRAWING SHOULD BE SUBMITTED TO THE EOR FOR REVIEW 3" TO 6" A FROM ENDS SIMPSON SDW22600 TOP AND BOTTOM NEW (4) 2X12, DROPPED OR FLUSH -SIMPSON SDW22500 SECTION A-A 3/4" = 1'-0" SECTION S2 TYPICAL FASTENING *BUILDER PERMITTED TO SUBSTITUTE !" (4) PLY 2X12 REAM THROUGH BOLTS FOR SIMP. SDW SCREWS

@ EQUAL SPACING.

PRELIMINARY: DO NOT USE FOR CONSTRUCTION

Licerse No. C:3870 V Millbrook Rd. Unit. 201 h, North Carolina 27609 Phone (919) 844-1661

STRUCTURAL ENGINEERS 318 W N Raleigh, I

ngineering ech ASSOCIATES, DATE

PROJ CARAGE REF RAYNOR BUILDERS INC HOUSE CONVERSION TO SANFORD RD. KETH 2 486 SCOPE 200

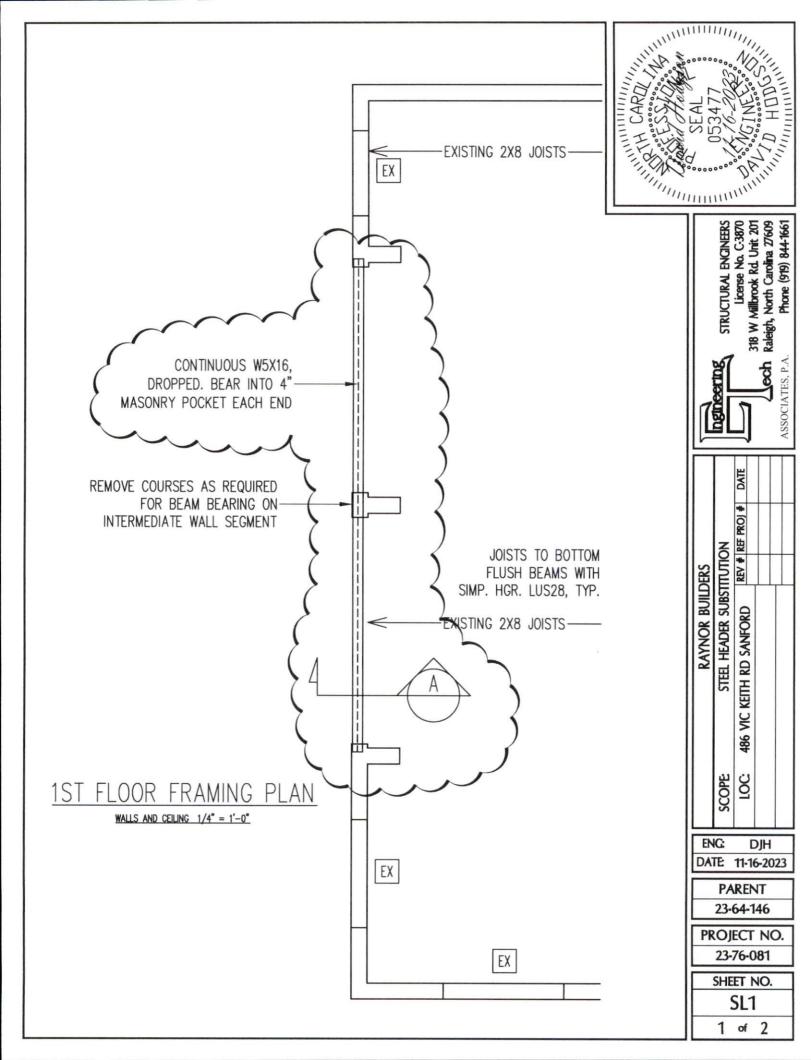
ENG: DIH DATE: 10-3-2023

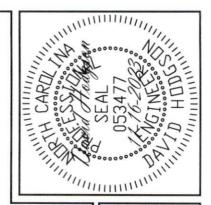
PROJECT NO.

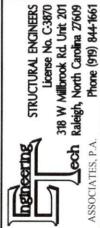
23-64-146 SHEET NO.

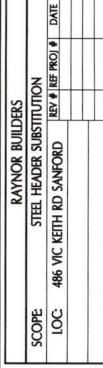
SD1

4 of









ENG: DJH
DATE: 11-16-2023

PARENT 23-64-146

PROJECT NO. 23-76-081

SHEET NO.
SL2
2 of 2

DROPPED WIDE FLANGE PER
PLANS WITH 2X NAILER OF
SIMILAR WIDTH. ATTACH WITH
16d CLINCHED NAILS @ 48" O.C.
AND CONSTRUCTION ADHESIVE.

A SECTION
DROPPED STEEL BEAM
3/4" = 1'-0"