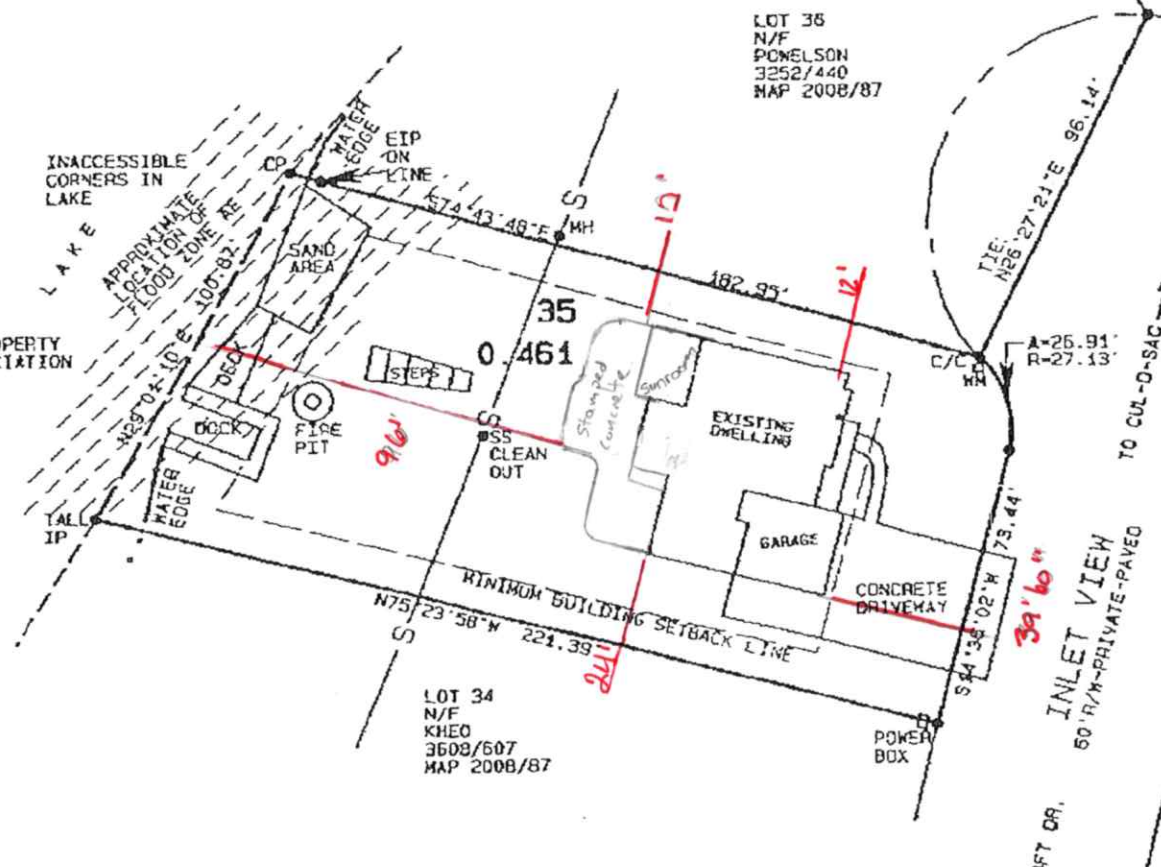


- LEGEND**
- EIP EXISTING IRON PIPE
 - NIP NEW IRON PIPE
 - PKN P K NAIL
 - CP COMPUTED POINT
 - PP POWER POLE
 - E- OVERHEAD ELECTRIC
 - C/C CONTROL CORNER
 - R/W RIGHT OF WAY
 - C CENTERLINE
 - EPK EXISTING P K NAIL
 - MH MAN HOLE
 - S- SANITARY SEWER

CAROLINA PROPERTY OWNERS ASSOCIATION
3432/659



LOT 35
N/F
POWELSON
3252/440
MAP 2008/87

LOT 34
N/F
KHEO
3608/607
MAP 2008/87

I certify that this map was drawn under my supervision from an actual survey made under my supervision (deed description recorded in Book SEE, page NOTE or other reference source _____; that the boundaries not surveyed are indicated as drawn from information in Book _____ Page _____ other reference source _____; that the ratio of precision or positional accuracy is 1/10,000; and that this map meets the requirements of The Standards of Practice for Land Surveying in North Carolina (21 NCAC 35.1600).

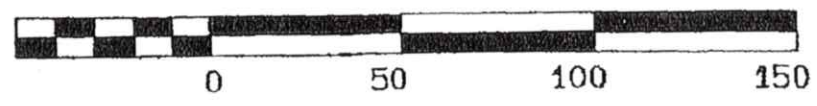
This 2 day of AUGUST

Dowell G. Eakes
Dowell G. Eakes, PLS
L-2607

REFERENCE:
DEED BOOK 2914, PAGE 884,
LOT 35, MAP 2008/89,
"CAROLINA LAKES" PH VIII, 8L T,
(LAKESIDE MANOR)
HARNETT COUNTY REGISTRY.

CURRENT OWNES:
SHAWN E. DOOLEY & wife
REBECCA L. DOOLEY
57 INLET VIEW
SANFORD, NC 27332

GRAPHIC SCALE 1"=50'



NOTES

MINIMUM BUILDING SETBACKS:
COUNTY SETBACKS
FRONT: 35' SIDE: 10' REAR: 25'

SERVICED BY:
PUBLIC WATER, PUBLIC SEWER.

ZONED: RA 20R

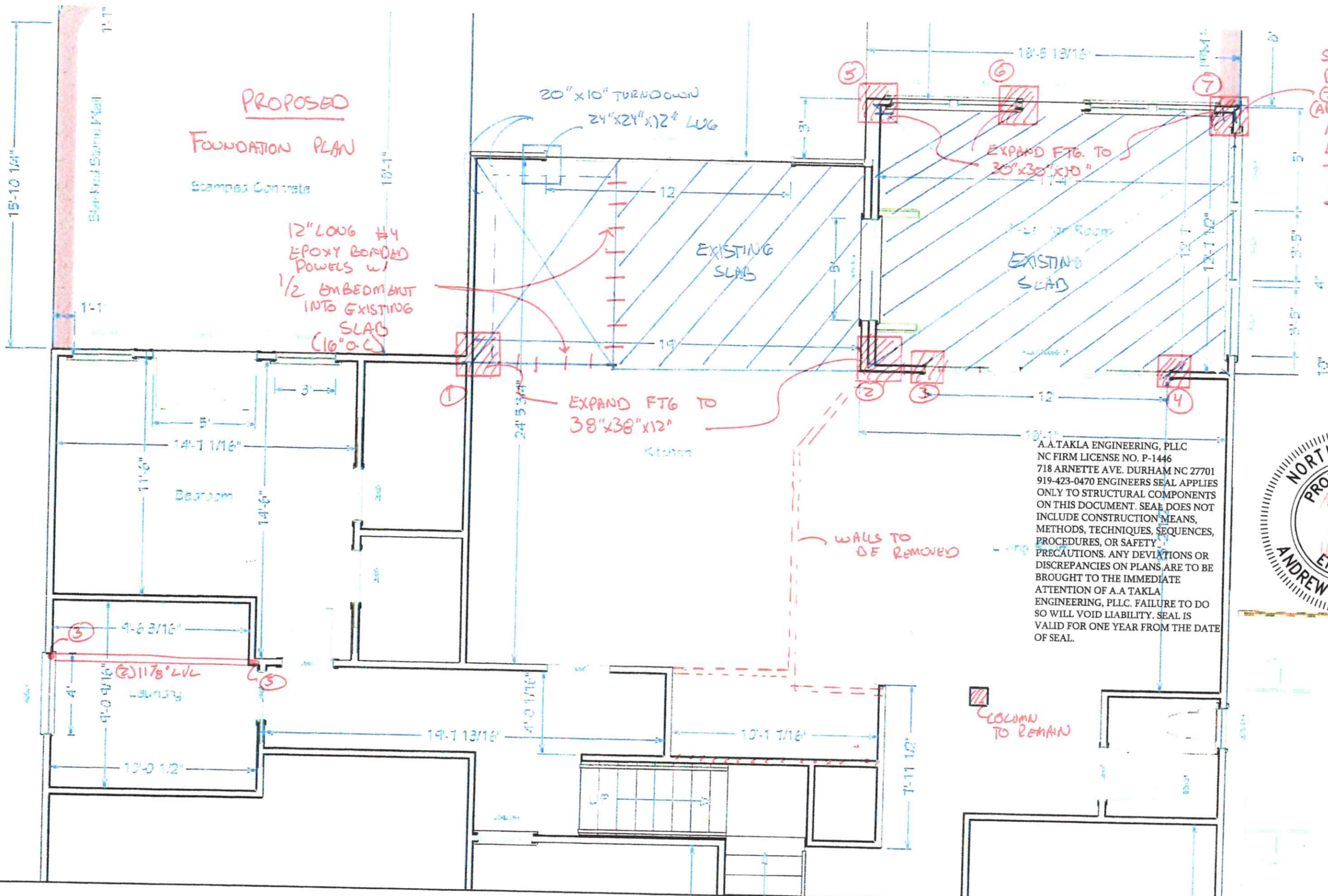
ALL AREAS ARE BY COMPUTER.

EXISTING IRON PIPES AT ALL CORNERS UNLESS OTHERWISE NOTED.

TITLE SEARCH NOT DONE BY THIS SURVEYOR.

SUBJECT TO ALL EASEMENTS, RIGHTS-OF-WAYS, STREETS AND ACCESSMENTS, IF ANY, AS THE SAME MAY APPEAR OF RECORD IN THE OFFICE OF THE REGISTER OF DEEDS, CLERK OF COURT, TOWN OR COUNTY TAX OFFICES OR WHICH MAY HAVE BEEN ACQUIRED BY PRESCRIPTIVE USE.

SURVEY FOR:		JOYCE CLINEBELL 57 INLET VIEW SANFORD, NC 27332	
Scale: 1"=50'	BARBECLUE TOWNSHIP HARNETT COUNTY NC		
Date: 8/2/2018	PIN: 9585-55-7840.000	FLOOD ZONE X MINIMAL RISK MAP# 3710958400J 10-2-2006	
Revised:	Drawn By: PATTI EAKES		
Job: 6218	Surveyor: DOWELL G. EAKES, PLS 333 EAKES RD., SANFORD, NC 27332		



**PROPOSED
FOUNDATION PLAN**

Stamped Concrete

20" x 10" TURNDOWN
24" x 24" x 12" LUG

12" LONG #4
EPOXY BONDED
POWERS w/
1/2" EMBEDMENT
INTO EXISTING
SLAB
(16" O.C.)

EXPAND FTG. TO
30" x 30" x 10"

EXPAND FTG TO
38" x 38" x 12"

WALLS TO
BE REMOVED

COLUMN
TO REMAIN

SAW CUT SLAB,
DOWEL IN
(2 #4 EACH
APPLICABLE DIRECTION)
AND PAUL
LARGE FTG.
TYP @ ALL
EXPANDED
(FOOTING)

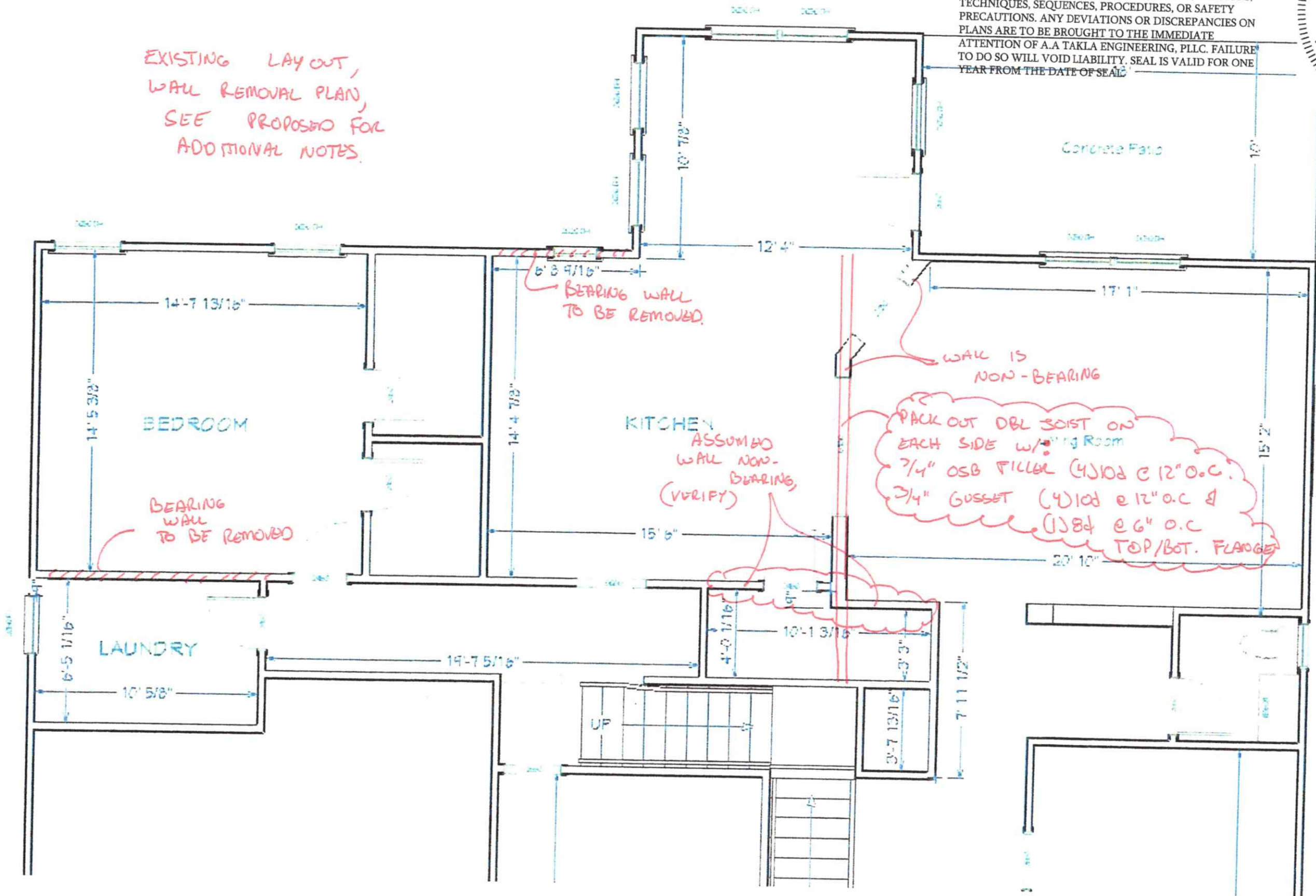
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NC FIRM LICENSE NO. P-1446
718 ARNETTE AVE. DURHAM NC 27701
919-423-0470 ENGINEERS SEAL APPLIES
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EXISTING LAY OUT,
 WALL REMOVAL PLAN,
 SEE PROPOSAL FOR
 ADDITIONAL NOTES.



NEW ROOF FRAMING SECTION

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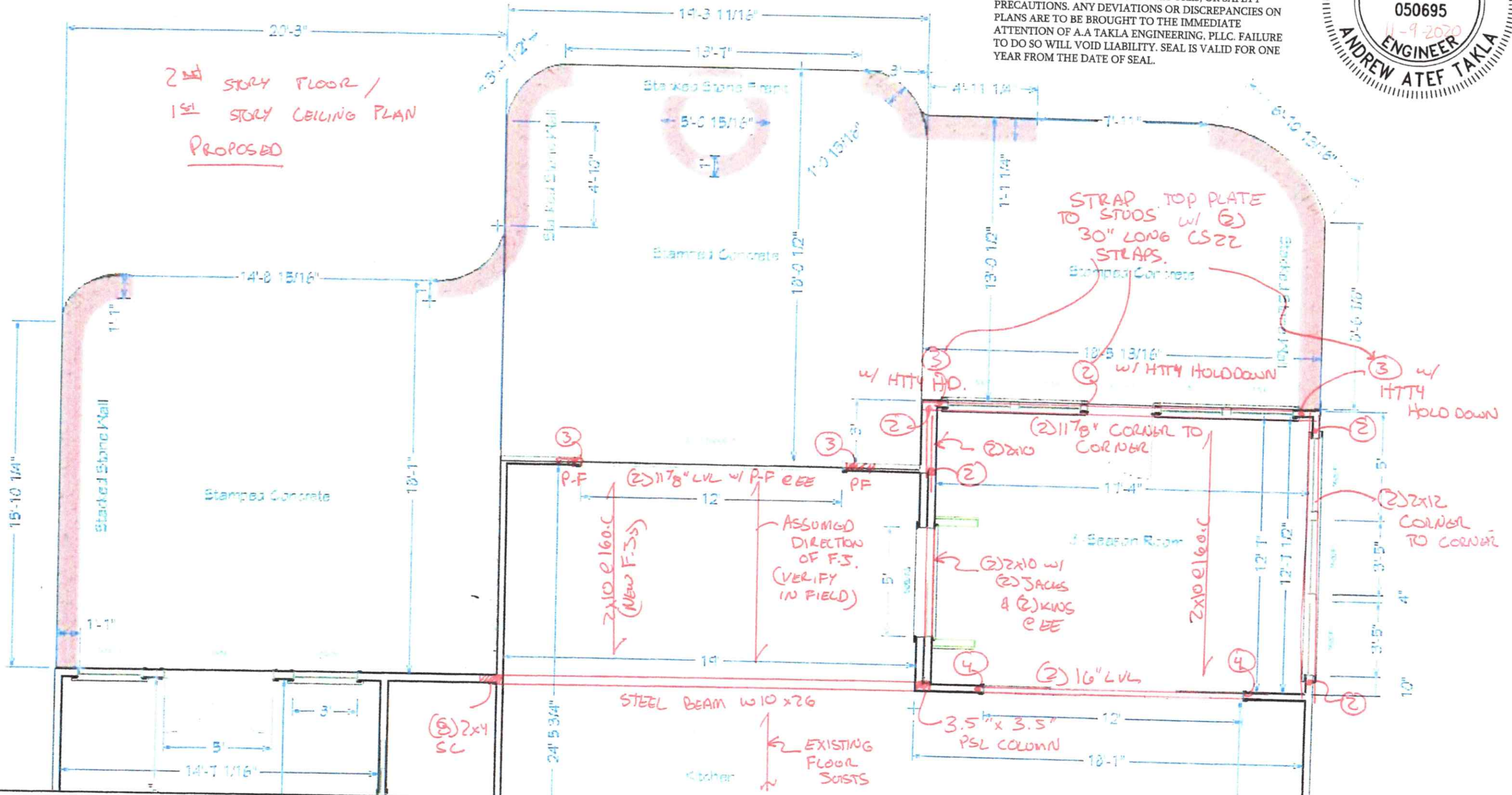
8' ceiling height

9' ceiling height

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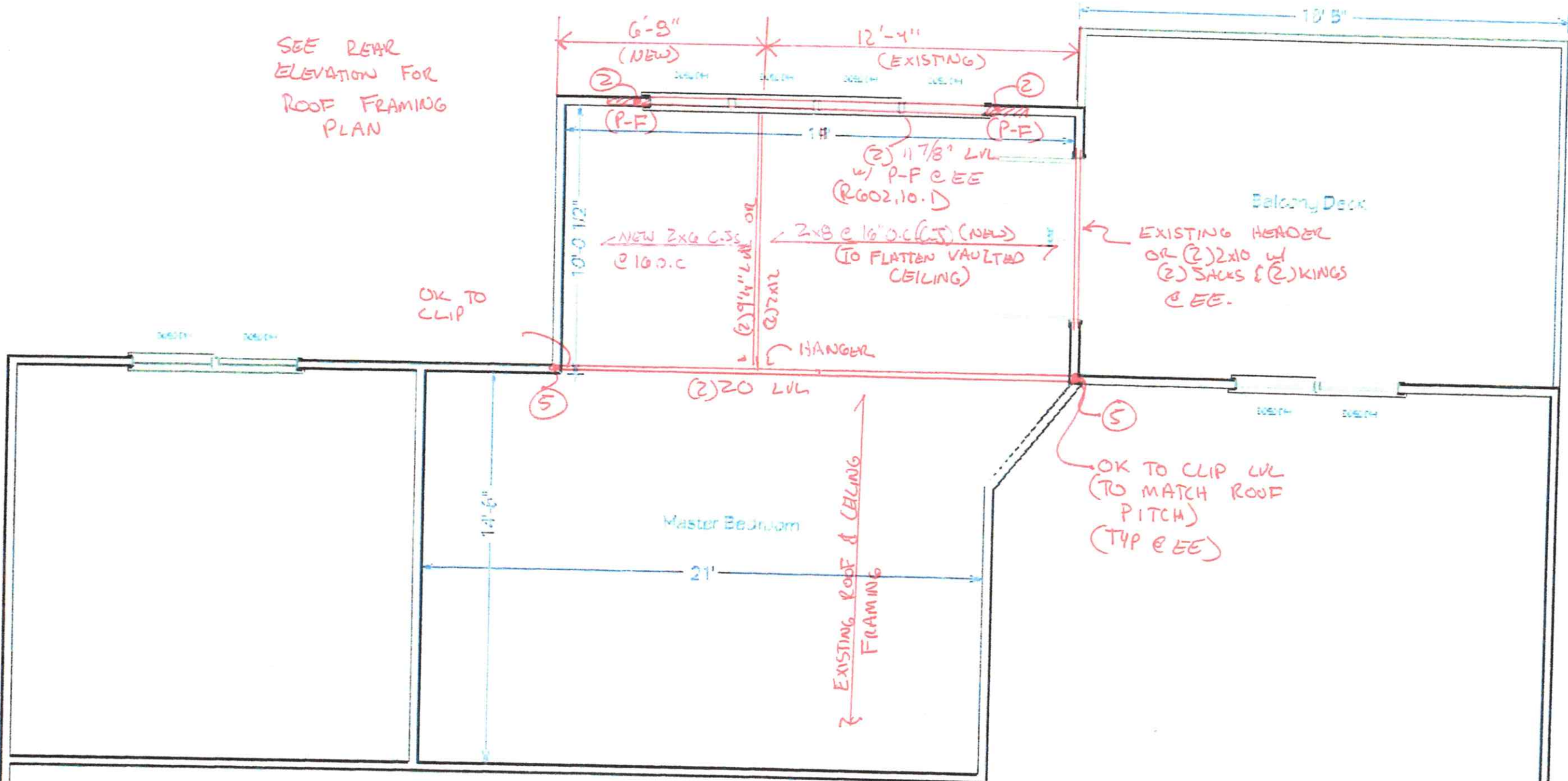


2nd STORY FLOOR /
 1st STORY CEILING PLAN
PROPOSED



2ND STORY CEILING FRAMING.

SEE REAR ELEVATION FOR ROOF FRAMING PLAN



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 YEAR FROM THE DATE OF SEAL.



Design Loads: (Exceeds minimum requirements set forth by code)

	Live Load (PSF)	Dead Load (PSF)	Deflection
All Floors	40	10	L/360
Attic Platforms	25	10	L/360
Ceiling	10	10	L/360
Decks/Balconies	60	10	L/240
Roof	20	15	L/240
Wind Load	115 MPH (UON)	115 MPH (UON)	L/240

General Plan Reading Notes:

- 1) If any handwritten notes are provided plans must be printed in color or read digitally.
- 2) Handwritten notes in Red and Blue ink shall take priority over all printed texts.
- 3) Noted dimensions shall take priority over scaled drawings.
- 4) These general notes shall apply unless otherwise noted in handwriting.

Foundation Notes:

- 1) Assumed soil load bearing capacity = 2000 PSF
- 2) Minimum 28 day f'c of concrete = 3000 PSI
- 3) Foundations to be built in accordance with NCRC 2018, CH 4
- 4) "Tie-In"s shall be (2) 16" long #4 epoxy bonded dowels half embedded mid-depth into existing footings. If no footing exists, omit Tie-in
- 5) Install anchor bolts per R403.1.6.
- 6) All slabs shall be 4" thick, 3000 psi concrete slab on 4" of #57 sub-base w/ a 6 mil vapor barrier (if used in an interior or garage application) w/ 10/10 6x6 welded wire fabric UON.
- 7) All slabs shall be on compacted fill or full depth self consolidated structural fill (#57) (at porches, garages and stem wall slabs UON.
- 8) All suspended slabs on metal pans shall utilize 16GA type B UON.
- 9) Max unreinforced, unbalanced condition of any CMU wall shall be 36". Any foundation wall subjected to 24" of unbalanced fill or more shall be fully grouted. Top course of all foundation walls shall be fully grouted.
- 10) Max CMU pier height to be 4x its least horizontal dimension. All piers shall be fully grouted.
- 11) All piers shall be in the middle 1/3rd of the footing. Min 2" footing projection at each side. Max projection shall be the depth of the footing.

Footing Schedule:

A = 16"x16"x8" E = 36"x36"x12"
 B = 20"x20"x8" F = 40"x40"x12" w/ (3) #4 EW @ bottoms
 C = 24"x24"x10" G = 48"x48"x12" w/ (4) #4 EW @ bottoms.
 D = 30"x30"x12" *All rebar in footings to have 3" cover.

Header Schedule:

A = (2)2x6 w/ (1) 2x4 Jack @ EE
 B = (2)2x8 w/ (2) 2x4 Jack @ EE
 C = (2)2x10 w/ (2) 2x4 Jack @ EE
 D = (2)2x12 w/ (3) 2x4 Jack @ EE
 E = (2)9 1/4" LVL w/ (3) 2x4 Js @ EE
 * Use 2x6 studs in 2x6 walls.
 * In 2x6 walls use 3 ply headers

King Stud Schedule:

0'-3' wide = (1)2x4 @ EE
 3'-6' wide = (2)2x4 @ EE
 6'-9' wide = (3)2x4 @ EE
 * If wall is 2x6, king studs shall be 2x6.

Stud Schedule for Walls 10' or Taller (supporting 1 + roof)

Height (Max)	Interior (Load Bearing)	Exterior (Load Bearing or Non-Bearing (INT) Non Bearing)
10'	2x4@ 16" O.C.	2x4@ 16" O.C. 2X4@ 24" O.C.
11'	2x4@ 12" O.C. 2x6 @ 16" O.C.	2x4@ 12" O.C. W/ B&S 2x6 @ 16" O.C. 2X4 @ 24" O.C
12'	2x4@ 12" O.C. 2x6 @ 16" O.C.	2x4@ 12" O.C. W/ B&S 2x6 @ 12" O.C. 2X4 @ 16" O.C.
13'	(2)2X4 @ 16" O.C. 2X6 @ 16" O.C.	(2)2x4@ 12" O.C. W/ B&S 2x6 @ 12" O.C. W/ B&S 2X4 @ 16" O.C.W/ B
14'	2x4@ 12" O.C. W/ B 2x6 @ 12" O.C.	(2)2x4@ 12" O.C. W/ B&S 2x6 @ 12" O.C. W/ B&S 2X6 @ 16" O.C.
15'	(2)2x4@ 12" O.C. W/ B 2x6 @ 12" O.C. W/ B	(2)2x6@ 16" O.C. W/ B&S 2X6@ 16" O.C. W/ B (2)2X4 @ 16" OC W/ B
16'	(2)2x4@ 12" O.C. W/ B 2x6 @ 12" O.C. W/ B	(2)2x6@ 12" O.C. W/ B&S 2x8 @ 16" O.C. W/ B 2X6@ 12" O.C. (2)2X4@ 16" O.C. W/B
17'	(2)2x6@ 16" O.C. W/ B 2x8 @ 16" O.C.	2X8 @ 12" O.C. 2X8 @ 16" O.C.

- Table based on 115 MPH wind zone, Exposure B, L/240 deflection
- B= Blocking: 2x Horizontal blocking at 6' o.c. vert. with (2) 10d nails @ EE
- S= Strapping: CS22 strapping to the interior face of the center 2/3rd height of every other stud. Half populate with 10d x 1.5" nails.
- If wall supports 2 stories and a roof, add 2' to the actual wall height and apply the table.
- If wall supports only roof, subtract 2' to the wall actual wall height and apply the table

Framing Notes:

- 1) All dimensional lumber to be Spruce Pine Fir No.2 or better.
- 2) Engineered Beams single ply = 1.75" wide w/ Fb of: LVL= 2600 psi, LSL = 2325 psi. PSL (columns) shall be 3.5" wide w/ F'b = 1344 psi
- 3) All floor framing per NCRC 2018 CH 5. All Wall framing per NCRC 2018 CH6.
- 4) All I-joists and floor truss framing per supplier's specifications and layout.
- 5) All structural steel shall be ASTM A-36; Fy= 36 KSI.
- 6) All weld material shall be 70 KSI material.
- 7) All welds to be installed by a certified AWS welder.
- 8) Install double joist under all walls parallel with joists.
- 9) Typically, load bearing walls (LBW) are shown hatched in red. Nearby girders and beams should be assumed to be directly supporting these LBWs, UON.
- 10) All LVL beams of 3 ply or more shall be fastened with 1/2" dia bolts at 16" o.c. staggered w/ 2" min edge distance from top/bottom edge UON. 2 ply LVLs shall be fastened with (4) #9 3" long wood screws UON.
- 11) Circled numbers indicate number of 2x4/2x6 studs in a stud column. Strap all stud columns of 4 or more with (3) horizontal CS22 straps.
- 12) All beam bearings shall be no less than 3". All other bearing to be 2" min.
- 13) All hangers shall be standard, appropriately sized face mounted UON. Consult Simpson catalog or local supplier. High capacity hangers will be load rated on plans.
- 14) Install all hardware per manufacturer's guidelines.

Lateral Bracing:

- 1) Unless otherwise noted, lateral bracing is found sufficient and compliant with minimum requirements set forth in NCRC 2018 Table R602.10.2 provided all exterior walls are sheathed at the exterior per CS-WSP, R602.10.3 which includes 2x4 (min) studs at 16" o.c. sheathed with 7/16" OSB w/ (1)8d nail at 6" o.c. edge and (1)8d nail at 12" o.c. field. Typically, required length of CS-WSP at each designated shear walls are shown on plans.
- 2) All noted Portal Frame (P-F) shall be compliant with R602.10.1
- 3) All locations noted with "HD" shall be 800 lbs min capacity. Options include 36" long CS16 straps fully populated with 10d nails, centered at interface, Simpson MSTC66B3Z or Simpson LSTA21. Install CS16 strap from top plate to 16" below top of stud.
- 4) Minimum corner return in each direction shall be 24" of wood structural panel unless otherwise noted.
- 5) Walls noted as GB2 shall be framed in accordance with R602.10.2

Wood Deck Notes:

- 1) All lumber to be pressure treated Spruce Pine Fir No.2 or better.
- 2) Band attachments to be installed per NCRC 2018, Appendix M (AM 104.1(1))
- 3) Install lateral bracing AM109.1
- 4) Install handrails per AM111.1
- 5) Max Post Heights per AM 108.1
- 6) Stair Stringers per AM 110.1

Screened in and Covered Porch Notes:

- 1) All wood deck notes apply.
- 2) Posts to be attached to footings, slab or CMU piers using ABU44 or ABU66 post base (or applicable size).
- 3) Uplift for posts to headers may be either (2) Simpson LCE4, (2)Simpson GAL clips with 3" long #9 screws or (4) 1/4" diameter, 5" long LedgerLoks driven at a 45° degree angle to each side of posts or notched 50% width w/ (2) LedgerLoks.
- 4) Uplift for posts to floor framing may be either (2)Simpson GAL clips with 3" long #9 screws or (4) 1/4" diameter, 5" long LedgerLoks driven at a 45° degree angle to each side.

Roof Framing Notes:

- 1) All roof framing shall be in accordance with NCRC 2018 CH 9.
- 2) All dimensional lumber to be Spruce Pine Fir No.2 or better.
- 3) All flat valleys for over-framed roofs shall be attached using (3) 3" long #9 screws at each main rafter.
- 4) Sheath with 7/16" OSB w/ 8d nails at 6" o.c. edge and 12" o.c. field.
- 5) All collar ties to be installed no higher than 1/3rd height eave to ridge up from eave nailed with (5) 10d nails at each end, UON
- 6) Roof trusses per others; installation per supplier guidelines.

General Construction Notes:

- 1) All temporary shoring, means and methods are the responsibility of the contractor.
- 2) All dimensions to be verified by the contractor in the field.
- 3) Takla Engineering assumes no responsibility for safety of project delivery.
- 4) Any questions pertaining to structural components should be immediately brought to the attention of Takla Engineering.
- 5) Limitations: Services provided are in accordance with the standard of practice for structural engineering and within the limits imposed by scope, schedule and budget. The determinations contained in this report are based on conditions observed at the time of the evaluation. No guarantees or warranties, expressed or implied, under this Agreement or otherwise, shall be construed in connection with services provided. Sequencing, shoring, means and methods of construction are considered beyond the scope of this design. Takla Engineering shall not be any safety aspect of Work.

Abbreviations:

• CONC	Concrete
• CONT.	Continuous
• C.J	Ceiling Joists
• CMU	Conc Masonry Unit
• CS-WSP	Sheathing per R602.10.3
• DIA	Diameter
• DBL	Double
• DJ / DR	Double Joist / Rafter
• EQ	Equal
• EE	Each End
• FJ	Floor Joist
• FND	Foundation
• FT	Floor Truss
• FTG	Footing
• GB	Gypsum Board (shear wall
• GRT	Girder Roof Truss
• HGR	Hanger
• HD	Holddowns
• LBW	Load Bearing Wall
• MANUF	Manufacturer
• NTS	Not To Scale
• O.C.	On Center
• O.F.	Over-framed (roof)
• PF	Portal Frame
• PL	Point Load
• P.T.	Pressure Treated
• R.T.	Roof Truss
• SC	Stud Column
• SIM	Similar
• STGR	Staggered
• SUP	Supplier
• TYP.	Typical
• UON	Unless Otherwise Noted

A.A. Takla Engineering, PLLC

Consulting. Design. Efficiency.

NC Firm License # P-1446

718 Arnette Ave. Durham, NC 27701

Andy A. Takla, PE | AndyTakla@TaklaEngr.com | 919-423-0470

Project: 57 Inlet View

Location: Sanford, NC

Company: Frey's Building and Remodeling

Care of: Scott Frey

Subject: Structural Notes

Job No.: 0434-20



STRUCTURAL NOTES

SCALE: NOT TO SCALE

PRINT ON 11"X17" PAPER

PE SEAL FOR

STRUCTURAL NOTES