

GENERAL NOTES:

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, SHOP DRAWINGS AND SPECIFICATIONS.
- CONSTRUCTION SHALL FOLLOW INTERNATIONAL RESIDENTIAL CODE (IRC) 2015 AND ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS AND REGULATIONS. BUILDING CODE SHALL TAKE PRECEDENCE OVER DRAWINGS IF CONFLICT EXISTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL DIMENSIONS AND FIT-UP OF THE STRUCTURE, INCLUDING VERIFYING ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE COMMENCING WORK.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING ANY WORK. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECT'S DRAWINGS BEFORE STARTING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN PLACEMENT, MAINTENANCE, ETC. OF ANY AND ALL SHORING, BRACING, TIE BACKS, ETC. NEEDED TO SUPPORT ANY PART OF THE NEW OR EXISTING CONSTRUCTION DURING THE ENTIRE CONSTRUCTION PROCESS TO ENSURE THE SAFETY AND INTEGRITY OF THE STRUCTURE UNTIL THE NECESSARY PERMANENT ELEMENTS ARE IN PLACE.
- SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR EXACT LOCATION OF ALL DEPRESSIONS, SLOPES, OPENINGS, PENETRATIONS, ETC. PENETRATION THROUGH BEAMS OR OPENINGS IN STRUCTURAL ELEMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER.
- UNLESS NOTED OTHERWISE, DETAILS SHOWN ON ANY DRAWING ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.

DESIGN CRITERIA:

- BUILDING CODE:** 2015 INTERNATIONAL RESIDENTIAL CODE
- DESIGN GRAVITY LOADS:**
 - FIRST FLOOR DL = 20 PSF
LL = 40 PSF
 - SECOND FLOOR DL = 20 PSF
LL = 40 PSF
 - ATTIC DL = 10 PSF
LL = 20 PSF
 - ROOF DL = 15 PSF
LL = 20 PSF
- WIND LOADS (ASCE 7-10):**
 - WIND SPEED = 140 MPH
 - WIND IMPORTANCE FACTOR = 1.0
 - RISK CATEGORY = II
 - WIND EXPOSURE CATEGORY = B

FOUNDATION NOTES:

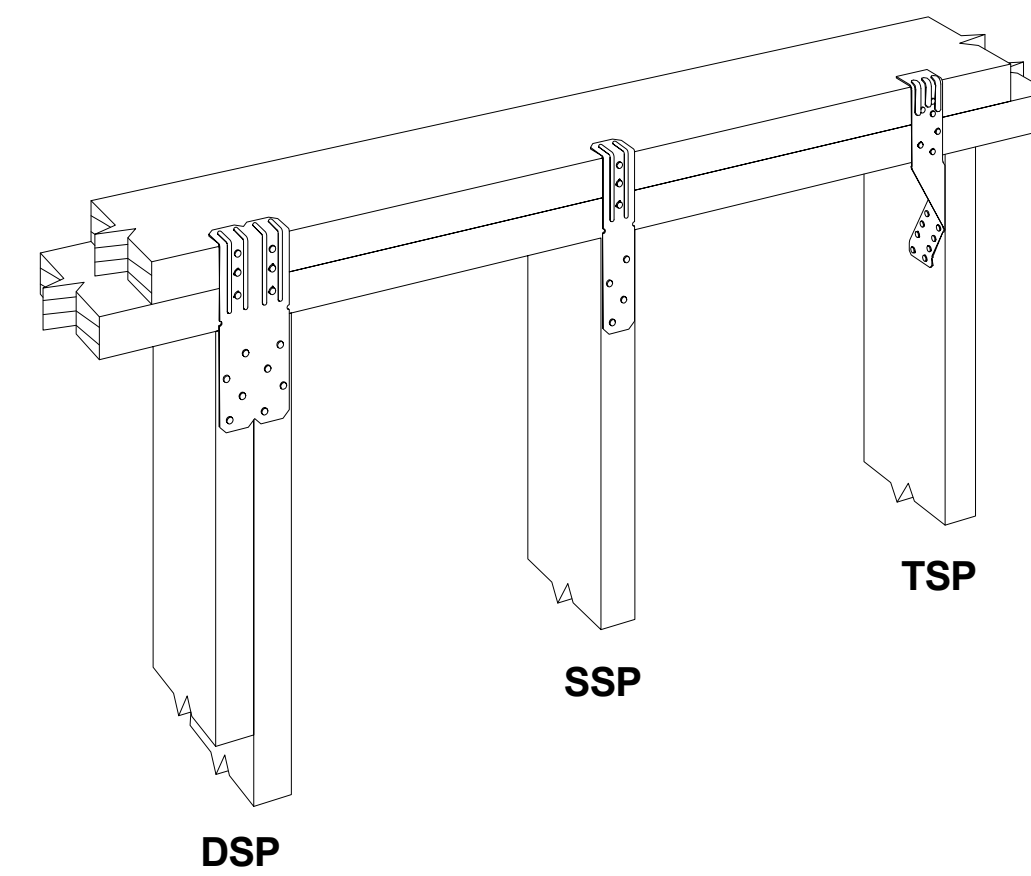
- PILING SHALL BE ONE PIECE TREATED TIMBER PILING (CCA 0.80) AND SHALL CONFORM TO ASTM D25. PILING SHALL HAVE A MINIMUM TIP DIAMETER OF 6" AND A MINIMUM BUTT DIAMETER OF 8" MEASURED 3 FEET FROM THE END OF THE PILE. THE TIPS OF ALL PILES SHALL BE DRIVEN TO AN ELEVATION OF 35 FEET BELOW GRADE OR TO REFUSAL.
 - CUT-OFF TREATMENT: BRUSH TREAT TOP OF PILE WITH COPPER NAPHTHENATE CONFORMING TO A.W.P.A. SPECIFICATION M4
 - HAMMER: SINGLE ACTING AIR HAMMER OR DROP HAMMER DELIVERING 7,250 FT. LBS. OF ENERGY PER BLOW. VIBRATORY OR COMPACTION HAMMER NOT PERMITTED.
 - CLASS 5, DESIGN LOAD = 5 TONS
 - DRIVE TO A REFUSAL OF 12 BLOWS PER FOOT MAX
- PLACE FOOTINGS ON UNDISTURBED SOIL. NOTIFY THE ENGINEER IF "SOFT SPOTS", UNDERGROUND OBSTRUCTIONS, OR ANY UNUSUAL CONDITION IS ENCOUNTERED DURING STRIPPING, EXCAVATION OR FILLING.
- GRADE BEAMS MAY BE EARTH FORMED PROVIDED DIMENSIONAL TOLERANCES LISTED IN ACI 117-90 ARE ADHERED TO.
- PLACE 10 MIL WATERPROOF MEMBRANE BENEATH ALL INTERIOR SLABS AND GRADE BEAMS. LAP 12" TO ACCOMMODATE CONCRETE POURING DIRECTION

CONCRETE NOTES:

- ALL CONCRETE WORK SHALL CONFORM TO ACI 201 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS WITH A 5" SLUMP
- CONCRETE SHALL BE NORMAL WEIGHT OF 150 LBS. PER CUBIC FOOT AND SHALL CONFORM TO THE LATEST ACI 301 SPECIFICATION.
- PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.
- AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL MEET ASTM C33.
- REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60, WELDED WIRE FABRIC (WWF) SHALL BE IN ACCORDANCE WITH ASTM 185. WIRE SHALL CONFORM TO ASTM A82.
- REINFORCING STEEL SHALL BE SPLICED WITH A CLASS "B" SPLICE IN ACCORDANCE WITH THE CURRENT ACI 318.
- REINFORCING FABRIC ON GRADE SHALL BE CHAIRED WITH 3000 PSI CONCRETE BRICKETTES SPACED TO ADEQUATELY SUPPORT THE REINFORCING, BUT NOT GREATER THAN 3'-0" O.C. EACH WAY. LAP ALL FABRIC ONE WIRE SPACING PLUS 6 INCHES.
- PROVIDE A 90 DEGREE HOOK ON ALL TOP REINFORCEMENT IN ALL BEAMS AT DISCONTINUOUS ENDS AND LAP SPLICE 30 BAR DIAMETERS AT MID SPAN. CONTINUOUS BOTTOM BARS SHALL BE LAP SPLICED 6" AT CENTER OF SUPPORT.
 - #3 1'-3"
 - #4 1'-8"
 - #5 2'-2"
- PROVIDE TWO (2) #5, 4'-0" LONGER THAN OPENING DIMENSION ON ALL SIDES OF OPENING IN SLAB
 - FOOTINGS AND GRADE BEAMS: 3"
 - FORMED SURFACES EXPOSED TO SOIL: 2"
 - BEAMS, COLUMNS, AND WALLS: 1 1/2"
 - SLABS: 1"
- DO NOT PENETRATE OR MAKE HOLES OR OPENINGS THROUGH FOUNDATION AND/OR FOOTINGS WITHOUT ENGINEER'S APPROVAL.
- EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4"

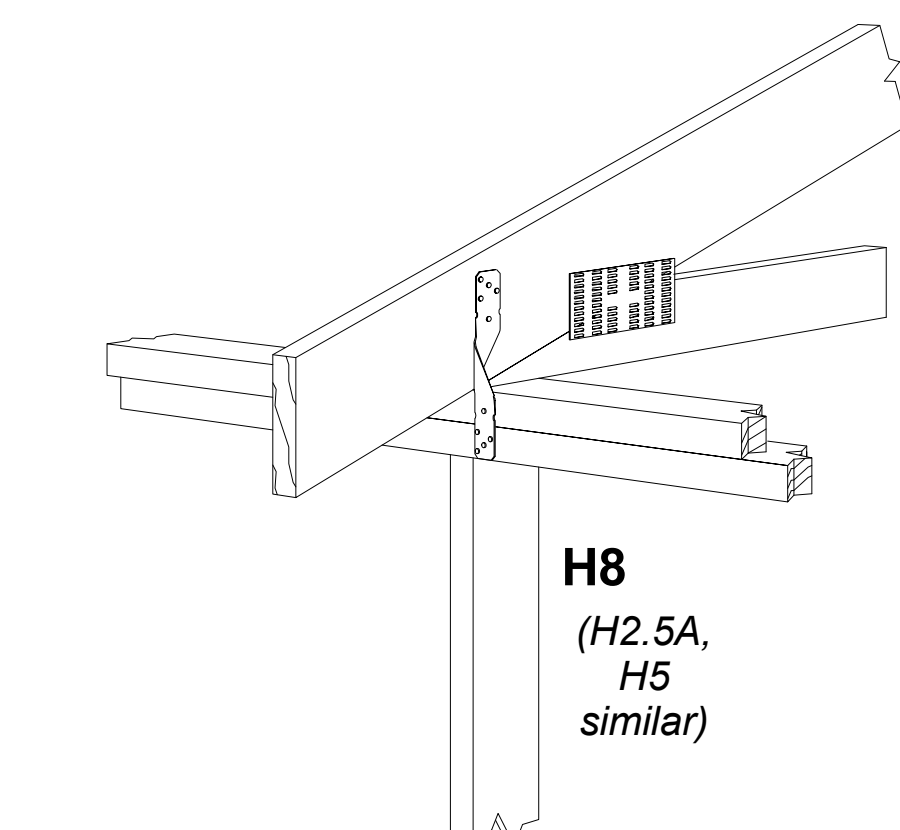
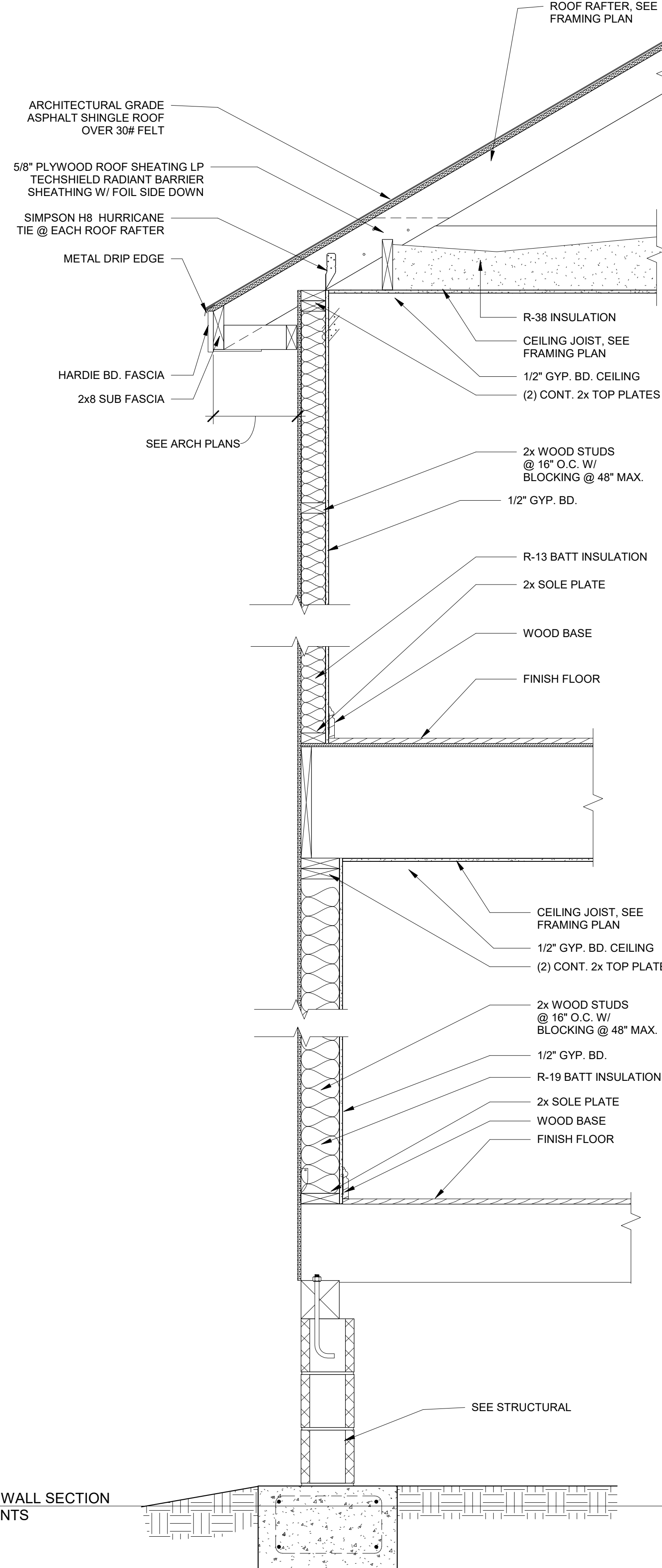
WOOD FRAMING NOTES:

- WOOD FRAMING FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2017 INTERNATIONAL RESIDENTIAL CODE (IRC) AND SHALL CONFORM TO THE WOOD FRAME CONSTRUCTION MANUAL (WFCM) FOR ONE- AND TWO-FAMILY DWELLINGS, 2001 EDITION AND THE PLYWOOD DESIGN SPECIFICATIONS BY THE APA. ALL WOOD FRAMING CONNECTORS, STRAPS, AND TIE-DOWNS SHALL BE USED IN ADDITION TO AND CONJUNCTION WITH THE REQUIREMENTS STATED ABOVE.
- FRAMING LUMBER SHALL BE SOUTHERN PINE GRADE MARKED AND KILN DRIED, NO. 2. ALL MEMBER PIECES, ENDS, JOINTS, OR SPLICES SHALL BE OVER SUPPORTS UNLESS NOTED OTHERWISE.
- UNLESS NOTED OTHERWISE MULTIPLE PIECES OF LUMBER OR MANUFACTURED WOOD PRODUCTS USED TO FORM BEAM OR HEADER MEMBERS SHALL BE ATTACHED TOGETHER WITH 2 ROWS OF 12d NAILS SPACED AT 12" FOR PIECES UP TO 12" DEEP. ALL OTHER PIECES SHALL HAVE 3 ROWS OF 12d NAILS AT 12".
- OPENINGS IN EXTERIOR WOOD-FRAMED WALLS SHALL HAVE THE FOLLOWING MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH JAMB AS PER TABLE 3.23c IN THE WFCM:
 - OPENINGS LESS THAN 4'-0": 2 STUDS
 - OPENINGS 4'-0" TO 6'-0": 3 STUDS
 - OPENINGS 6'-0" TO 10'-0": 4 STUDS
 - OPENINGS LESS THAN 4'-0": 2 STUDS
 - ALL MULTIPLE STUDS SHALL BE CONNECTED TOGETHER WITH TWO ROWS OF NAILS SPACED AT 8" O.C.
- UNLESS SHOWN OTHERWISE ALL OPENINGS IN WALLS SHALL HAVE HEADERS CONSISTING OF A MINIMUM OF TWO (2) 2x12'S OR THREE (3) 2x10'S.
- PROVIDE DOUBLE FLOOR JOISTS UNDER ALL WALLS
- PROVIDE BRIDGING FOR ALL FLOOR JOISTS @ 8'-0" O.C. MAX.
- RAMSET BOTTOM PLATE OF STUD WALLS TO CONCRETE WITH 1/4" RAMSETS @ 16" O.C.
- LUMBER, PLYWOOD, LVL'S, OR OTHER STRUCTURAL WOOD ELEMENTS SHALL BE PRESSURE TREATED (PT) WITH ACQ TO A MINIMUM RETENTION OF 0.40 LBS./CU. FT. IN ACCORDANCE WITH AWPA. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE TREATED.
- WOOD MEMBERS (INCLUDING PLYWOOD SHEATHING OR BRACING) SHALL BE CONNECTED OR FASTENED WITH STEEL NAILS, SCREWS, OR BOLTS. NO STAPLES WILL BE PERMITTED. ALL WOOD CONNECTIONS SHALL BE IN ACCORDANCE WITH THE FASTENING SCHEDULE OF THE 2015 IRC.
- JOIST AND BEAM HANGERS, HURRICANE CLIPS, AND OTHER TIES, ANCHORS, OR CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE CO., INC. AND SHALL BE ATTACHED WITH NAILS OF THE SIZE AND TYPE RECOMMENDED BY THE MANUFACTURER. ALL HANGERS, CLIPS, CONNECTORS, ANCHORS, TIES, ETC. SHALL BE GALVANIZED. ALL SUCH UNITS THAT WILL BE EXPOSED TO WEATHER, IN CONTACT WITH EARTH, WATER, OR CONCRETE, OR BELOW THE FIRST FLOOR LEVEL SHALL RECEIVE THE SIMPSON "Z-MAX" TRIPLE ZINC COATING OR APPROVED EQUAL.
- UNLESS SHOWN OTHERWISE ALL PLYWOOD ROOF SHEATHING SHALL BE APA RATED 32/16, 5/8" THICK AND FASTENED WITH 8d COMMON NAILS SPACED AT 4" O.C. MAX. ALONG SUPPORTING MEMBERS AT THE EDGES OF EACH SHEET AND 6" O.C. MAX. ALONG SUPPORTING MEMBERS ON THE INTERIOR OF EACH SHEET.
- VERTICAL JOINTS OF PLYWOOD ROOF SHEATHING SHALL BE STAGGERED EVERY FOUR FEET (4'-0") OR LESS.
- UNLESS SHOWN OTHERWISE ALL PLYWOOD WALL SHEATHING SHALL BE 1/2" THICK AND FASTENED WITH 8d COMMON NAILS SPACED AT 4" O.C. MAX. ALONG SUPPORTING MEMBERS AT THE EDGES OF EACH SHEET AND 12" O.C. MAX. ALONG SUPPORTING MEMBERS ON THE INTERIOR OF EACH SHEET.
- PLYWOOD WALL SHEATHING SHALL HAVE SOLID BLOCKING AT ALL HORIZONTAL JOINTS.
- UNLESS SHOWN OTHERWISE ALL PLYWOOD FLOOR SHEATHING SHALL BE APA RATED 48/24, 3/4" THICK AND FASTENED WITH GLUE AND 10d COMMON NAILS SPACED AT 6" O.C. MAX. ALONG SUPPORTING MEMBERS AT THE EDGES OF EACH SHEET AND 12" O.C. MAX. ALONG SUPPORTING MEMBERS ON THE INTERIOR OF EACH SHEET.
- MEMBERS DESIGNATED AS "LVL" SHALL BE LAMINATED VENEER LUMBER HAVING PROPERTIES AND STRENGTHS EQUAL TO THE I-LEVEL TRUSS JOIST COMPANY'S MICROLAM.
- OPEN WEB JOIST FINAL DESIGN SHALL BE BY MANUFACTURER AND CONTRACTOR SHALL FOLLOW ALL REQUIRED MANUFACTURER'S DETAILS.

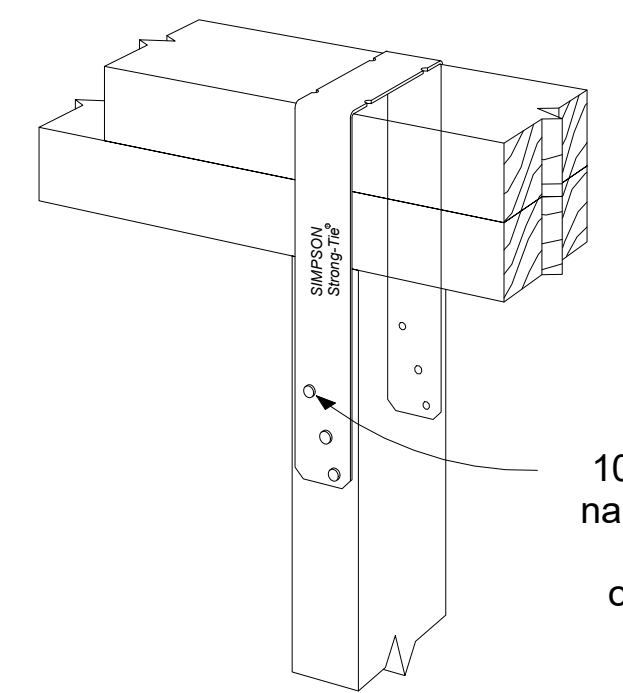


5 TSP & SSP DETAILS
NTS

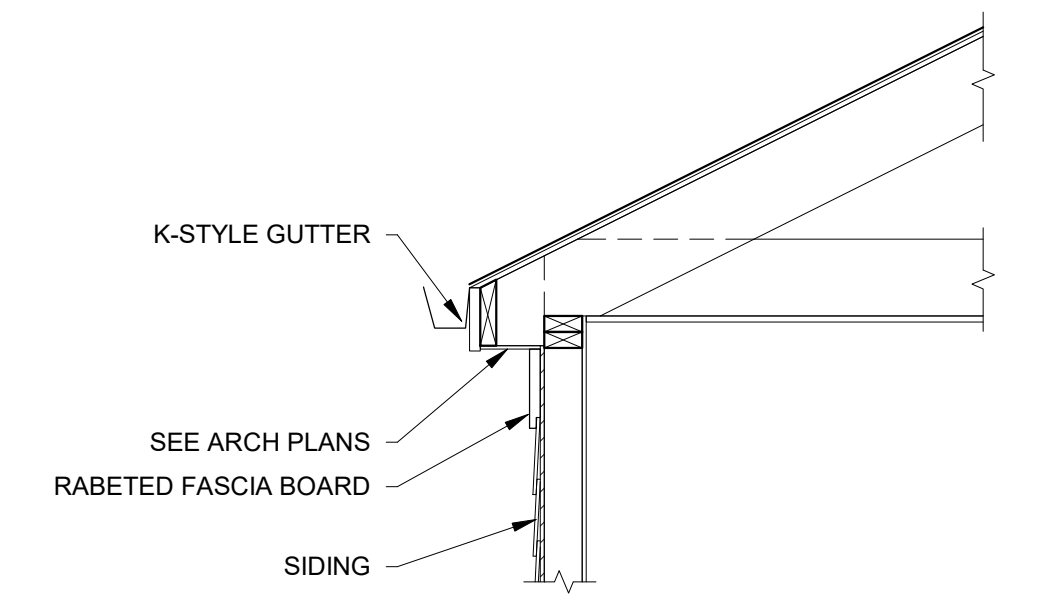
2 WALL SECTION
NTS



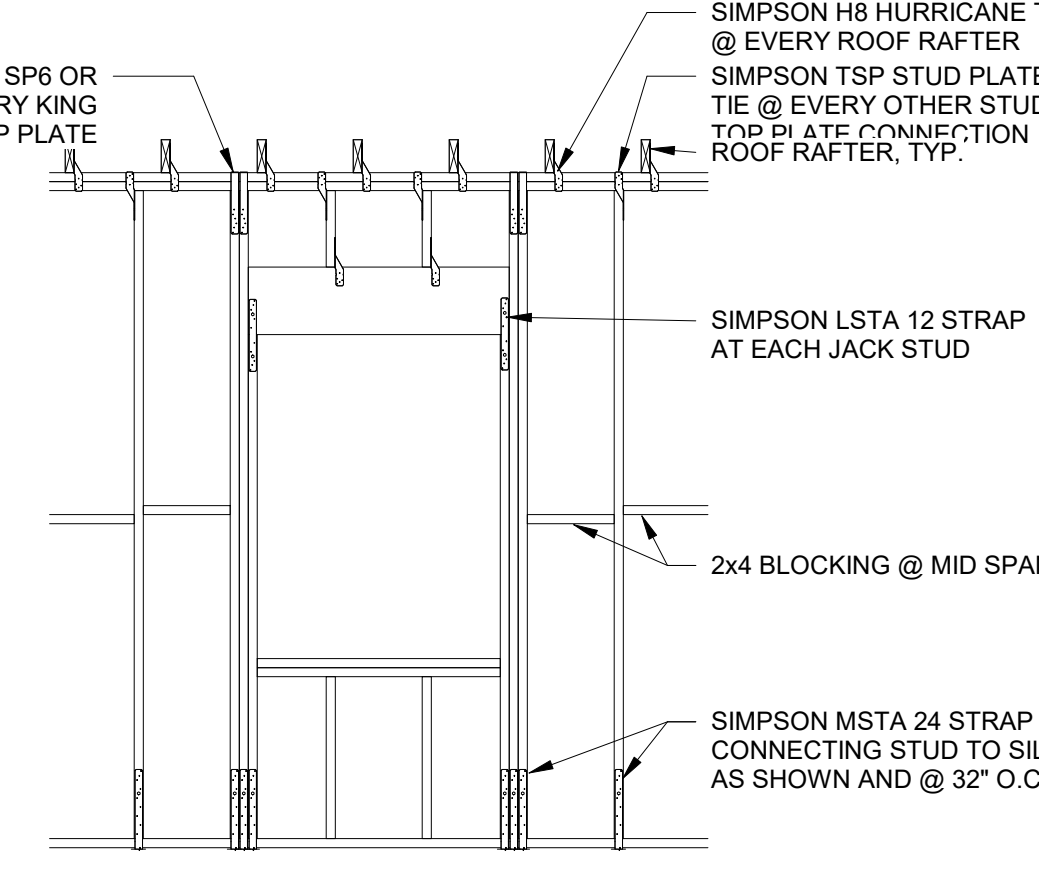
3 H8 DETAIL
NTS



4 SP4 DETAIL
NTS



7 ROOF/RAFTER SECTION
NTS



6 TYP. WINDOW/DOOR OPENING
NTS

No.	Description	Date

wingate
ENGINEERS

2135 Bernville St.
New Orleans, LA 70119
(504) 913-5479

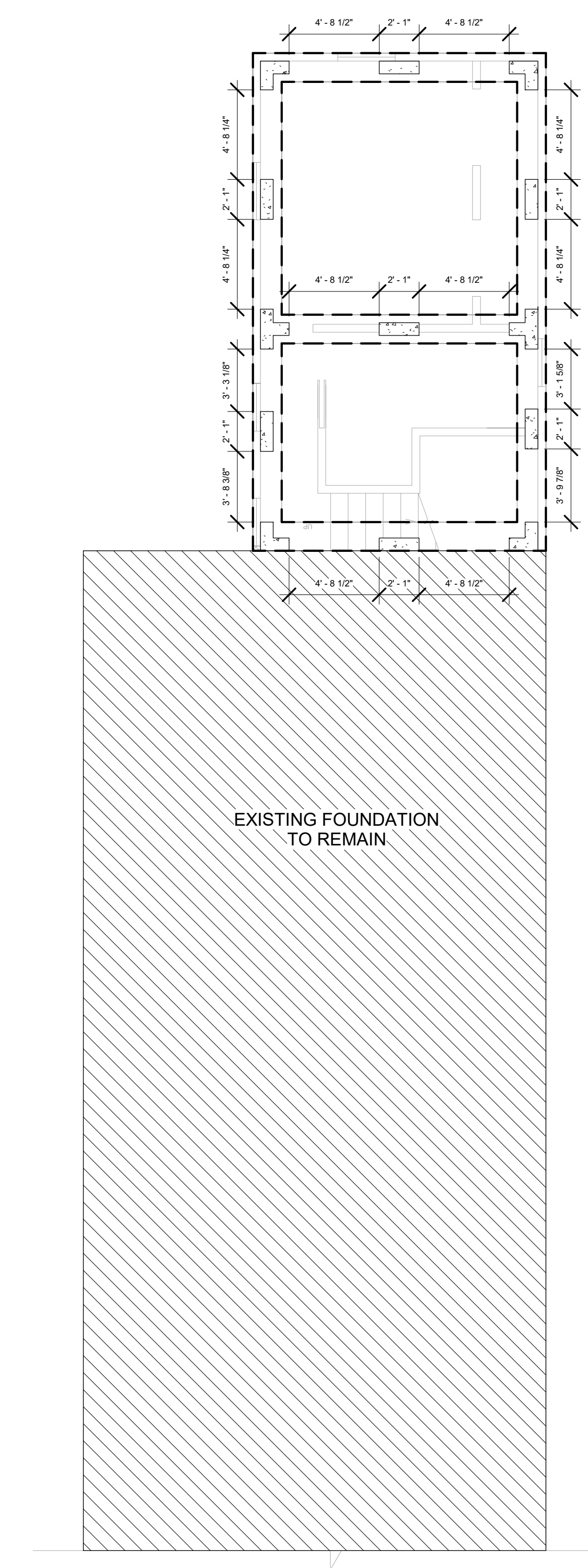
SAHAR RESIDENCE
RENOVATION / ADDITION

5022 Loyola Ave.
New Orleans, LA 70115

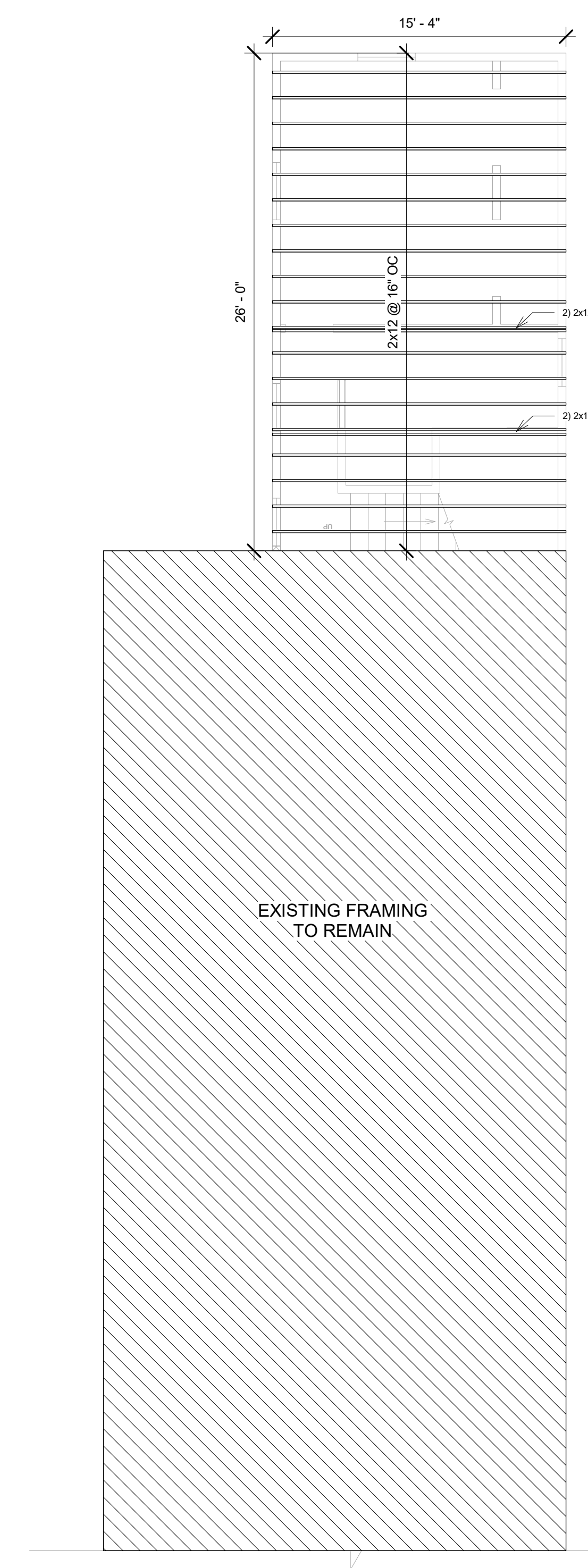
STRUCTURAL NOTES

Project Number 2022-04
Date 2/1/2022
Drawn By JT
Checked By JT

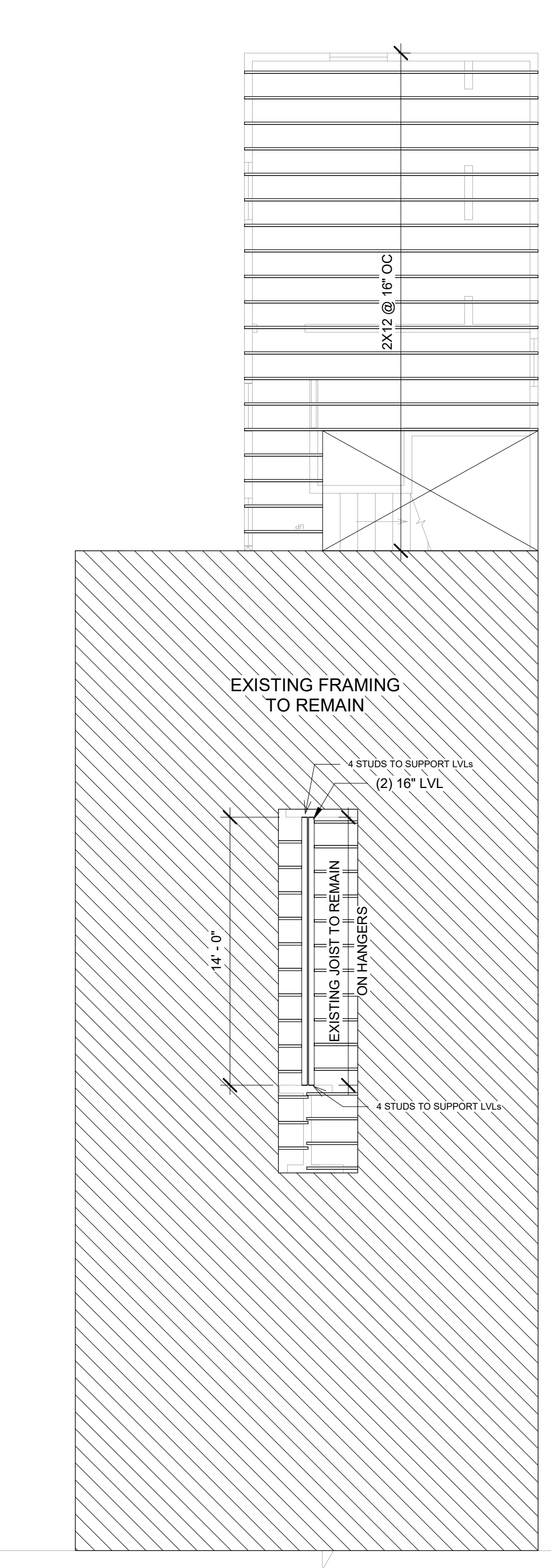




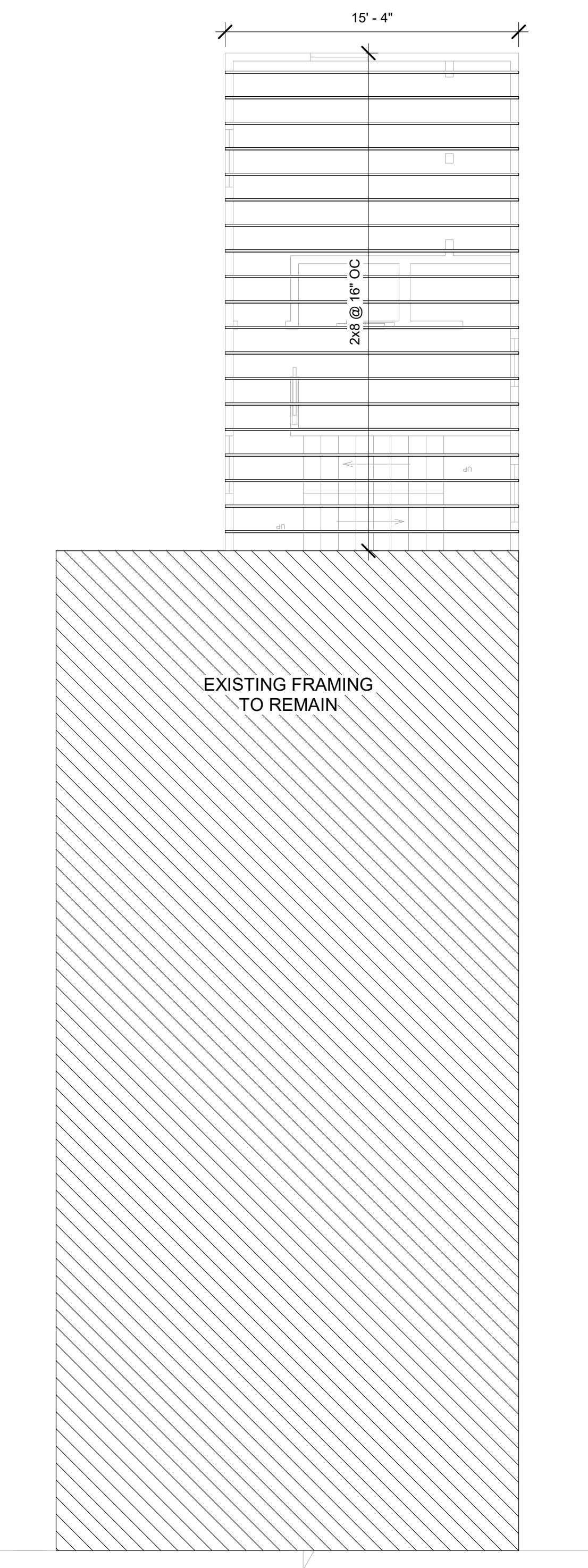
① FOUNDATION PLAN
3/16" = 1'-0"



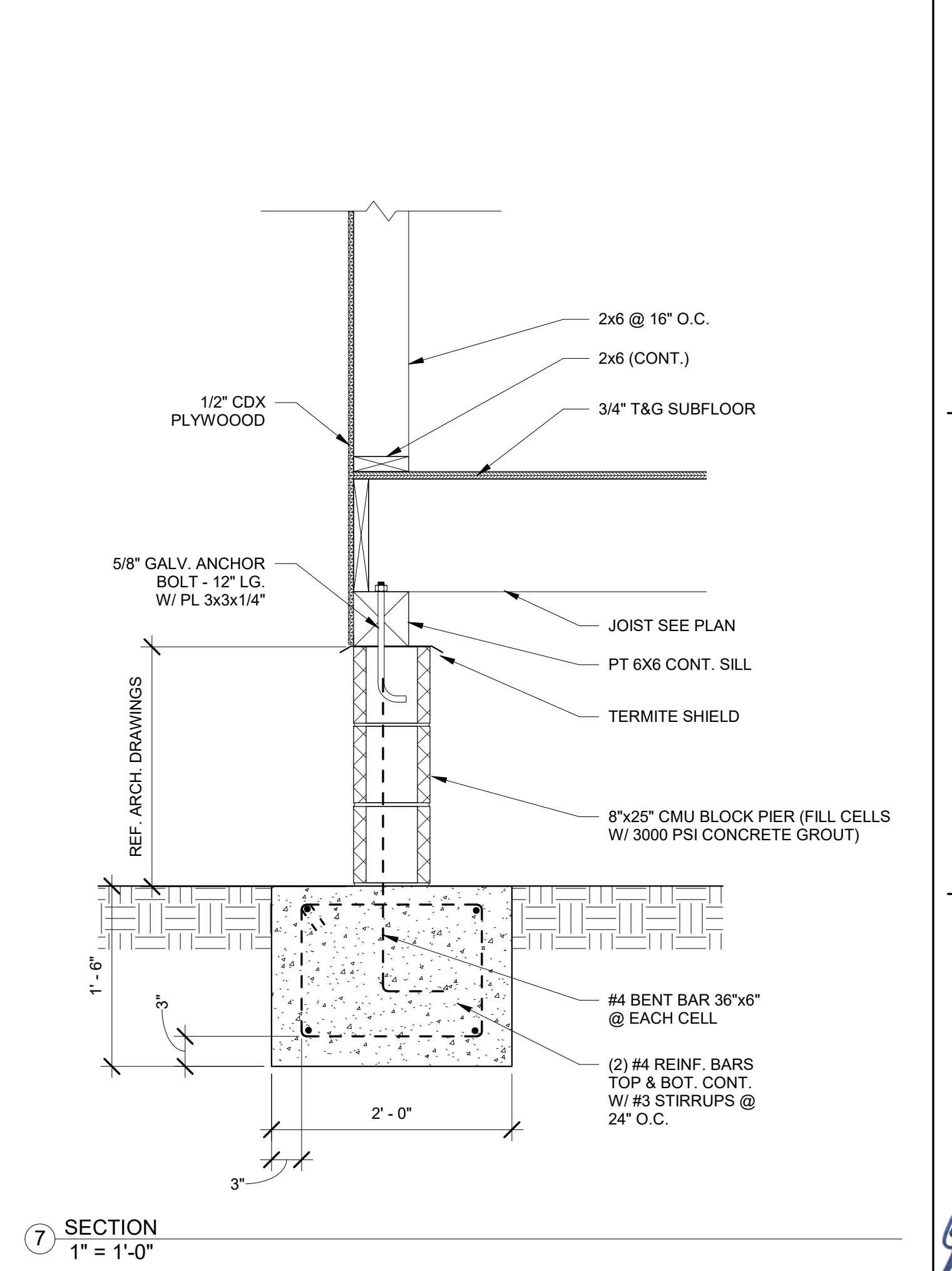
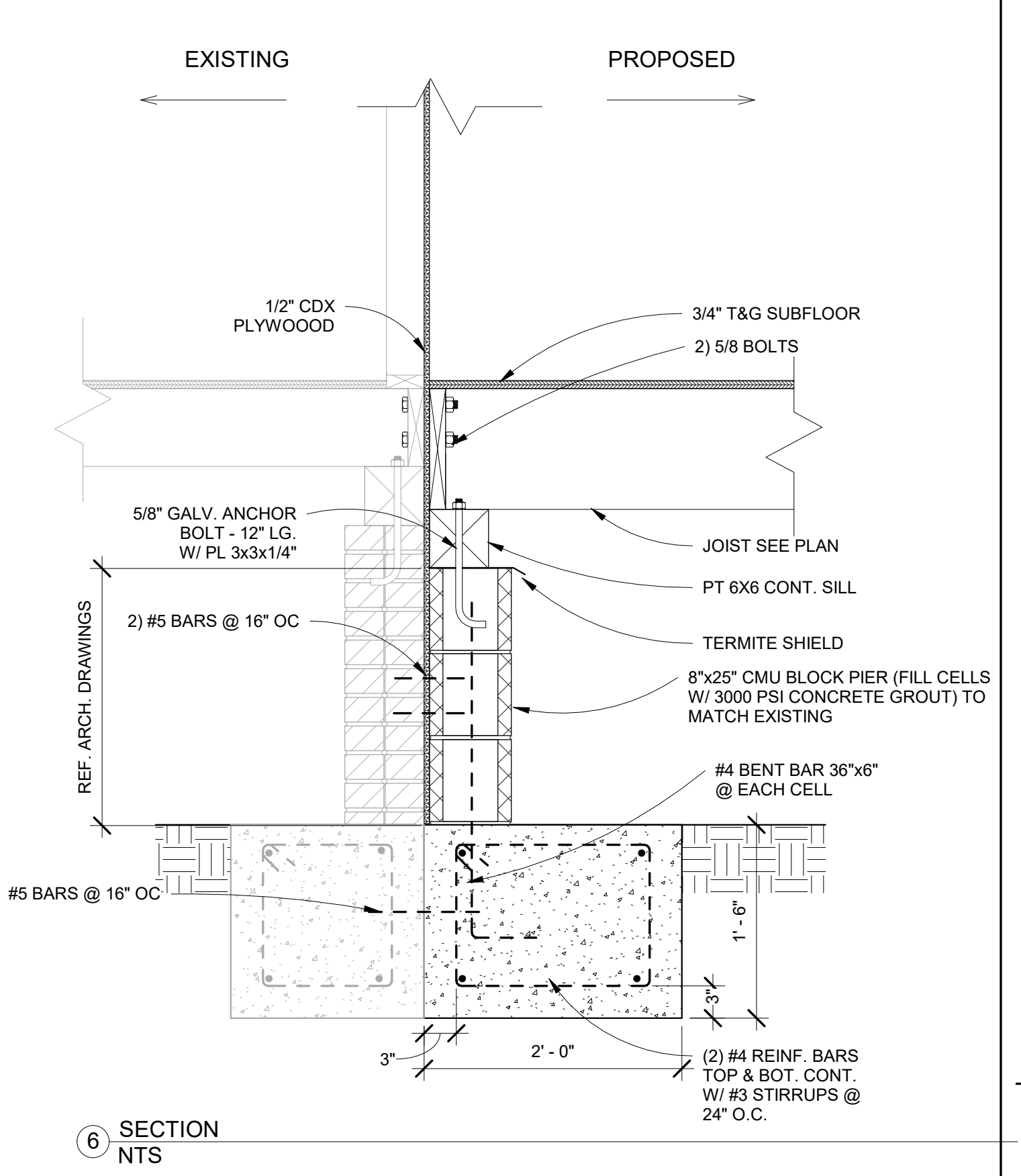
② 1ST FLOOR FRAMING PLAN
3/16" = 1'-0"



③ 1ST FLOOR CEILING/ 2ND FLOOR FRAMING PLAN
3/16" = 1'-0"



④ 2ND FLOOR CEILING FRAMING PLAN
3/16" = 1'-0"



FOUNDATION PLAN LEGEND

--- CONCRETE GRADE BEAM

FOUNDATION PLAN NOTES

- SEE STRUCTURAL NOTES ON S1.0

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SAHAR RESIDENCE
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5022 Loyola Ave.
New Orleans, LA 70115

FOUNDATION PLANS

Project Number	2022-04
Date	2/1/2022
Drawn By	TL
Checked By	JT

