ELEVATIONS (XXX'-XX") SHOWN ON PLANS ARE TO TOP OF CONCRETE, STEEL, OR WOOD DECK U.N.O ELEVATIONS SHOWN ARE BASED ON FIRST FLOOR ELEVATION OF 100'-00" CONFIRM WITH ARCHITECTURAL.

ALL CONTRACTORS AND ANY SUB-CONTRACTORS SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS AS SHOWN ON STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS. WHERE DISCREPANCIES ARISE THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED.

ALL CONTRACTORS AND ANY SUB-CONTRACTORS SHALL CONSULT ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR VERIFICATION OF LOCATION AND DIMENSIONS OF CURBS, PADS, INSERTS, SLEEVES, DRIPS, REGLETS, REVEALS, FINISHES, DEPRESSIONS, DOOR CLOSERS, AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

SIZE AND LOCATION OF ALL ROOF, FLOOR, AND WALL OPENINGS TO BE VERIFIED WITH MECHANICAL AND ELECTRICAL DRAWINGS AND CONTRACTORS. OPENINGS LESS THAN 12 INCHES ARE GENERALLY NOT SHOWN.

THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS, ERRORS, OR OMISSIONS OF THE CONTRACTOR OR ANY SUB-CONTRACTOR, OR ANY OF THE CONTRACTOR OR SUBCONTRACTORS AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS AND MANNER OF CONSTRUCTION AND FOR THE SAFETY OF PERSONS AND PROPERTY. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATION DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY

THE ARCHITECT, CONTRACTOR, OWNER, AND END-USER OF THE STRUCTURE SHOULD EXPECT TO SEE SOME DEGREE OF RANDOM CRACKING IN THE SLAB-ON-GRADE. RANDOM CRACKING INCLUDES, BUT IS NOT LIMITED TO: SHRINKAGE CRACKS, CRACKS AT RE-ENTRANT CORNERS, AND CRACKS ADJACENT TO POINTS OF SLAB FIXITY. RANDOM CRACKING GENERALLY DOES NOT INCLUDE CRACKS WITH VERTICAL DISPLACEMENT. RANDOM CRACKS WITHIN THE SLAB-ON-GRADE DO NOT TYPICALLY IMPACT THE STRUCTURAL INTEGRITY OF THE SLAB AND ARE NOT NECESSARILY INDICATIVE OF STRUCTURAL ISSUES OR CONCERNS.

MECHANICAL UNITS AND EQUIPMENT SUPPORTED BY ROOF AND ELEVATED FLOOR STRUCTURE ARE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER, AND MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF UNIT SIZE, WEIGHT, AND LOCATION.

THE STRUCTURAL DRAWINGS HEREIN REPRESENT THE FINISHED STRUCTURE. DURING ERECTION OF THE BUILDING, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR TEMPORARY GUYING, SHORING, BRACING, FORMING, ETC., TO HOLD THE STRUCTURE IN PROPER ALIGNMENT AND TO WITHSTAND ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED; INCLUDING LATERAL LOADS, TEMPERATURE DIFFERENTIALS, AND STOCKPILES OF MATERIAL AND EQUIPMENT. SUCH MEASURES SHALL BE LEFT IN PLACE AS LONG AS REQUIRED FOR SAFETY AND UNTIL ALL FRAMING AND CONNECTIONS ARE IN PLACE. THE INVESTIGATION, DESIGN, SAFETY, ADEQUACY AND INSPECTION OF SUCH TEMPORARY MEASURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

CONSTRUCTION DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO APPROVAL BY THE ENGINEER.

11. ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE, AND ERECTION IN ACCORDANCE WITH THE SUPPLIERS INSTRUCTIONS AND REQUIREMENTS.

CONTRACTOR AND SUB-CONTRACTORS SHALL THOROUGHLY REVIEW ALL DRAWINGS AND SPECIFICATIONS PRIOR TO SUBMITTING BIDS. MISCELLANEOUS FASTENERS, CLIPS, ETC., THAT ARE NOT DETAILED ON THE DRAWINGS BUT ARE PART OF THE REQUIREMENTS FOR FULL INSTALLATION OF ALL STRUCTURAL SYSTEMS ARE TO BE PART OF THE BID. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE BID TO ASCERTAIN CONDITIONS WHICH MY ADVERSELY AFFECT THE BID.

13. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE CONSTRUCTION DRAWINGS AND/OR SPECIFICATION AND/OR EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER

CONTRACTOR SHALL REVIEW, STAMP, SIGN, AND DATE ALL SHOP DRAWINGS PRIOR TO FORWARDING TO THE ARCHITECT/ENGINEER. THE ENGINEER'S REVIEW IS TO BE FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE RELEVANT CONTRACT DOCUMENTS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW, CHECK, AND COORDINATE THE SHOP DRAWINGS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THE SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, A706 FOR WELDED CONDITIONS. DETAILS, DIMENSION, ETC..

THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES ALL DEPRESSIONS, DIMENSIONS, ELEVATIONS, SLEEVES, CHASES, HANGERS, OPENING, INSERTS, ANCHORS, EQUIPMENT SUPPORTS, AND DETAILS WITH THE ENTIRE CONTRACT DOCUMENT PACKAGE, INCLUDING SPECIFICATIONS AND ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. FOR CONCRETE CONSTRUCTION, THE INSERTS, EMBEDDED PLATES, ETC., SHALL NOT INTERFERE WITH REINFORCEMENT LOCATIONS.

THESE DRAWINGS INCLUDE SPECIFIED COMPONENTS AND PRODUCTS, I.E. EPOXY, METAL DECK. IF A SUPPLIER/MANUFACTURER DIFFERENT THAN SPECIFIED ON THESE DRAWINGS IS DESIRED AS A SUBSTITUTE. A SUBMITTAL SHOWING THE SUBSTITUTE IS EQUIVALENT TO THE PRODUCT SPECIFIED MUST BE PROVIDED TO AND APPROVED BY THE ENGINEER OF RECORD. IT IS THE SUBMITTERS RESPONSIBILITY TO SHOW THE SUBSTITUTE IS EQUIVALENT, NOT THE ENGINEER OF RECORD.

17. THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PERFORM INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE IBC AS REQUIRED BY THE BUILDING OFFICIAL. INSPECTION REPORTS FOR THE ITEMS LISTED IN THE SPECIAL INSPECTION SCHEDULE SHALL BE FURNISHED TO THE STRUCTURAL ENGINEER OF RECORD IN A TIMELY MANNER AND SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES THAT ARE NOT CORRECTED SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE OWNER AND STRUCTURAL ENGINEER OF RECORD.

## **DESIGN LOADS**

1.	ROOF LIVE LOAD	20 PSF
2.	FLOOR LIVE LOAD (FIRST FLOOR)	100 PSF
3.	FLOOR LIVE LOAD (SECOND FLOOR)	40/100 PSF
4.	GROUND SNOW LOAD	20 PSF
5.	ROOF SNOW LOAD	14 PSF
6.	OCCUPANCY CATEGORY	II
7.	BASIC WIND SPEED (ASCE/SEI 7)	110 M.P.H. EXPOSURE C
8.	WIND COMPONENTS AND CLADDING	25 PSF (WALLS)
9.	SEISMIC DESIGN CATEGORY (ASCE/SEI 7)	В
	SDS SD1 SITE CLASS SEISMIC FORCE RESISTING SYSTEM	0.081 0.077 D SHEAR WALLS

## **EXISTING CONSTRUCTION**

FIELD VERIFY GRADES, SIZES, LOCATIONS AND CONDITIONS OF ALL ITEMS ON PLANS AND DETAILS BEFORE STARTING WORK. REPORT DISCREPANCIES THAT WILL PREVENT CONFORMANCE TO CONSTRUCTION DOCUMENTS TO THE ENGINEER OF RECORD.

EXISTING STRUCTURE TO REMAIN IS SHOWN SCREENED (LIGHT). EXISTING STRUCTURE TO BE REMOVED IS NOT SHOWN.

ALL EXISTING CONSTRUCTION AFFECTED BY DEMOLITION SHALL BE SHORED UNTIL NEW CONSTRUCTION SUPPORT MEMBERS ARE IN PLACE.

### **FOUNDATION**

DESIGN ALLOWABLE SOIL BEARING PRESSURE OF 1,500 PSF ASSUMED. ALL EXTERIOR FOOTINGS TO BE 3'-0" BELOW FINISH GRADE UNO.

UNLESS NOTED OTHERWISE; CENTER COLUMN FOOTINGS ON COLUMN CENTERLINES, CENTER WALL FOOTINGS ON FOUNDATION WALLS.

SLAB ON GRADE SHALL BE UNDERLAIN BY VAPOR BARRIER AND 6 INCHES MINIMUM OF CRUSHED ROCK OR CONCRETE. REINFORCE ALL SLABS ON GRADE WITH #3 AT 18 INCHES EACH WAY IN GROUT IN LIFTS NOT EXCEEDING 5'-4" IN HEIGHT. ALL REINFORCING SHALL BE IN PLACE AND HELD TOP 1/3 OF SLAB UNLESS NOTED OTHERWISE. AT DROPPED OR DEPRESSED SLABS ON GRADE

BACK FILL AROUND THE EXTERIOR FOUNDATION WALLS WITH A FREE DRAINING GRANULAR MATERIAL TO THE ELEVATION OF THE ROUGH GRADE. PLACEMENT OF BACKFILL IS NOT ALLOWED UNTIL THE SLAB ON GRADE IS IN PLACE AND THE MAIN FLOOR DIAPHRAGM IS COMPLETED. TUNNEL CONCRETE WORK, FREE STANDING AND FOUNDATION WALLS SHALL BE COMPLETE AND AT DESIGN STRENGTH BEFORE BACKFILL IS PLACED.

MAINTAIN GRAVEL THICKNESS, SLAB DEPTH, REINFORCEMENT AND REINFORCEMENT POSITION.

CONTRACTOR TO KEEP EXCAVATIONS DRY AND PROTECTED FROM FROST AT ALL TIMES DURING THE FOUNDATION CONSTRUCTION. NOTIFY ENGINEER IF NATURE OF SOIL AT DEPTHS SHOWN IS NOT SUITABLE FOR FOUNDATIONS.

### CAST-IN-PLACE CONCRETE

MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS

FOOTINGS INTERIOR SLABS ON GRADE SLABS OVER STEEL DECK EXPOSED CONCRETE SLABS AND GARAGE SLABS FOUNDATION WALLS, WALLS, COLUMNS AND REAMS	3500 PSI MAX. W/C RATIO OF 0.50 4000 PSI MAX. W/C RATIO OF 0.45 3500 PSI MAX. W/C RATIO OF 0.45 4000 PSI MAX. W/C RATIO OF 0.45
FOUNDATION WALLS, WALLS, COLUMNS AND BEAMS	4000 PSI MAX. W/C RATIO OF 0.45
EXPOSED CONCRETE SLABS AND GARAGE SLABS	4000 PSI MAX. W/C RATIO OF 0.45

EXTERIOR EXPOSED CONCRETE SHALL HAVE 4 TO 8% ENTRAINED AIR. SLABS WITH HARD TROWELLED FINISH TO HAVE NO AIR ENTRAINMENT ADDED. COORDINATE WITH ARCHITECTURAL FOR

AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL MEET ASTM C33. MIX DESIGN SHALL CONTAIN A MINIMUM OF 50% COARSE AGGREGATES BY GRADATION REQUIREMENTS (NO.67 GRADING) SET FORTH IN ASTM C33.

NO ALUMINUM SHALL BE PLACED IN THE CONCRETE.

CONSTRUCTION TO BE IN ACCORDANCE WITH ACI 318-05 (R-05), "CHAPTER 3 FOR STANDARDS FOR TESTS & MATERIALS, CHAPTERS 4, 5, 6 & 7 FOR CONSTRUCTION REQUIREMENTS". REFER TO ACI

PIPE OR ELECTRICAL CONDUIT EMBEDDED IN CONCRETE SHALL NOT BE LARGER IN OUTSIDE DIAMETER AT ITS WIDEST (OR FITTING) THAN 1/3 THE THICKNESS OF THE SLAB OR WALL. SLEEVES, CONDUIT, OR PIPES THROUGH SLABS AND WALLS SHALL BE PLACED NO CLOSER THAN THREE DIAMETERS ON CENTER AND THEY DO NOT DISPLACE REINFORCING. DO NOT CUT HOLES IN CONCRETE SLABS, BEAMS, COLUMNS, OR WALLS WITHOUT PRIOR APPROVAL OF THE ENGINEER.

LOCATION OF ALL CONSTRUCTION AND CONTROL JOINTS SHALL BE LOCATED AND DETAILED ON SHOP DRAWINGS AND ARE SUBJECT TO ENGINEERS APPROVAL. IF SLAB ON GRADE CONTROL JOINTS ARE NOT SPECIFICALLY LOCATED ON DRAWINGS, PROVIDE CONTROL JOINTS AT 10'-0" ON CENTER MAXIMUM WITH A LENGTH TO WIDTH RATIO OF 1.5. PROVIDE (2) #4x4'-0" AT ALL NON-CONTINUOUS CONTROL JOINTS. PROVIDE (2) #4x4'-0" AND (1) #4x24"x24" CORNER BAR AT ALL REENTRANT CORNERS OF SLAB ON GRADE.

REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DIMENSION OF CONCRETE REVEALS, NOTCHES, REGLETS, DRIPS, PADS, CURBS, CHAMFERS BLOCKOUTS AT DOORWAYS, AND ALL OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS. CHAMFER ALL EXPOSED CORNERS OF BEAMS, COLUMNS, JOISTS AND WALLS, SUBJECT TO ARCHITECTS APPROVAL

TRUSS TYPE MASONRY JOINT REINFORCEMENT: W1.7 (9 GAGE), ASTM A1064, FY=70,000 PSI WELDED WIRE REINFORCING (WWR): ASTM A82 AND A185

DEFORMED BARS (REBAR): ASTM A615, GRADE 40 FOR #3; GRADE 60 FOR #4 AND LARGER; ASTM

48-BAR DIAMETERS AT CELLS WITH SINGLE BAR (HORIZ. AND VERT.) 64-BAR DIAMETERS AT CELLS WITH TWO BARS (HORIZ, AND VERT.) CLASS "B' LAP SPLICE, TYPICAL UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC: WIRE SPACING +2"

CONCRETE COVER FOR CAST-IN-PLACE AND NON-PRE-STRESSED CONCRETE SHALL BE AS SPECIFIED BELOW U.N.O. ON THESE DRAWINGS:

CONCRETE CAST AGAINST SOIL	3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER (#6 OR GREATER)	2"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER (#5 OR LESS)	1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER (SLAB, WALL, JOIST)	3/4"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER (BEAM, COLUMN)	1 1/2"
SLAB ON GRADE	1 1/2"

SECURELY TIE ALL REINFORCING IN PLACE WITH DOUBLE ANNEALED 16-GAUGE IRON WIRE OR

APPROVED CLIPS PRIOR TO CONCRETE OR GROUT PLACEMENT.

SUBMIT SHOP DRAWINGS OF REINFORCING STEEL FOR REVIEW BY THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION.

## TYPICAL CMU WALL REINFORCING

UNLESS NOTED OTHERWISE ON THESE DRAWINGS, REINFORCE CMU WALLS AS

8" CMU WALLS #5 VERT @ 48" O.C. CENTER OF WALL

(2) #5 VERT AT EACH CORNER OF WALL TRUSS TYPE HORIZ JOINT REINFORCEMENT @ 16" O.C.

SOLID GROUT AT REINFORCED CELLS ONLY UNO PROVIDE (2) TYPICAL VERT FULL HEIGHT JAMB STEEL EACH SIDE OF OPENINGS PROVIDE (2) #4 HORIZ BOND BEAM AT FLOOR AND ROOF LEVELS AND TOP OF WALL PROVIDE (2) #5 LINTEL BOND BEAM AT DOOR OPENINGS

## **COLD FORMED STEEL**

ALL STRUCTURAL COLD FORMED STEEL FRAMING SHALL CONFORM TO THE CURRENT EDITION OF AISI STANDARD

33 & 43 MILS MATERIAL ASTM C955 GR. 33 KSI 54, 68 & 97 MILS MATERIAL ASTM C955 GR. 50 KSI

ALL STRUCTURAL PROPERTIES COMPUTED IN ACCORDANCE WITH AISI "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" (AISI NAS-01). DESIGNATIONS GIVEN ON DRAWINGS ARE STEEL STUD MANUFACTURER'S ASSOCIATION (S.S.M.A.).

U.N.O. ON THESE DRAWINGS, STUD WALL TRACK TO BE OF THE SAME MATERIAL AND GAUGE AS STUDS. PROVIDE HORIZONTAL BRIDGING AT 5'-0" O.C. MAXIMUM AT NON- BEARING WALLS AND 3'-4" O.C. MAXIMUM AT BEARING WALLS. BEARING WALLS TO BE ERECTED WITH STUD ENDS SEATED AGAINST TRACK WEB TOP AND BOTTOM.

SUBMIT SHOP DRAWINGS SHOWING STUD AND JOIST LAYOUT, DIMENSION, SIZES, BRIDGING

AND REQUIRED CONNECTION DETAILS FOR REVIEW BY THE ARCHITECT AND ENGINEER OF RECORD.

LIGHT WEIGHT, RUNNING BOND, ASTM C90 CONCRETE MASONRY UNITS WITH NET AREA MINIMUM COMPRESSIVE STRENGTH OF 1,900 PSI. ASTM C270 MORTAR TYPE S, MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI AT 28 DAYS. ASTM C476 GROUT WITH MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS. NET AREA COMPRESSIVE STRENGTH OF MASONRY, F'M = 1,500

FILL ALL CELLS WITH REINFORCING, AND OTHER CELLS INDICATED ON DRAWINGS, WITH PRIOR TO GROUTING. GROUT SHALL BE CONSOLIDATED AND RE-CONSOLIDATED AFTER INITIAL. WATER LOSS BY MECHANICAL VIBRATION.

CONTRACTOR SHALL PROVIDE BRACING FOR MASONRY WALLS, AS REQUIRED, UNTIL CONNECTION TO FLOOR AND/OR ROOF DIAPHRAGMS ARE COMPLETED.

STRENGTH OF MASONRY ASSEMBLY SHALL BE DETERMINED BY THE UNIT STRENGTH METHOD IN ACCORDANCE WITH SECTION 2105.2.2.1 OF THE 2006 IBC.

NON-BEARING INTERIOR PARTITIONS SHALL STOP 1" BELOW STRUCTURAL SLABS OR STEEL

PROVIDE HORIZONTAL TRUSS-TYPE REINFORCING AT 16" ON CENTER MAXIMUM UNO.

WHERE BOND BEAMS INTERSECT AT CORNERS AT DIFFERENT ELEVATIONS, RUN EACH BOND

BEAM AROUND CORNER FOR TWO BLOCK LENGTHS MINIMUM.

WHERE BOND BEAMS INTERSECT PARALLEL AT DIFFERENT ELEVATIONS, LAP BOND BEAMS FOUR BLOCK LENGTHS MINIMUM.

PROVIDE CORNER AND INTERSECTION BARS IN ALL BOND BEAMS.

CONTROL AND EXPANSION JOINTS SHALL BE PROVIDED IN MASONRY WALLS AT 30' MAXIMUM PER TYPICAL MASONRY DETAILS. SEE ARCHITECTURAL FOR LOCATIONS.

PROVIDE (2) #4 VERTICAL EACH SIDE OF ALL OPENINGS IN MASONRY WALLS UNO. COORDINATE WITH LINTEL SCHEDULE AND PROVIDE GREATER REINFORCING REQUIREMENTS.

PROVIDE (2) #4 VERTICAL AT ALL WALL CORNERS, ENDS AND INTERSECTIONS UNO. COORDINATE WITH LINTEL SCHEDULE AND PROVIDE GREATER REINFORCING REQUIREMENTS.

13. PROVIDE BOND BEAM WITH (2) #4 CONTINUOUS BENEATH ALL SLAB AND BEAM BEARINGS UNO.

PROVIDE 1/2" AIR GAP AROUND SIDES, TOP AND END OF WOOD STRUCTURAL MEMBERS BEARING ON MASONRY.

STEEL JOISTS BEARING CONNECTIONS SHALL BE BY WELDED UNO. PROVIDE ERECTION BOLTS AT LOCATION REQUIRED BY SJI SPECIFICATIONS. WHERE JOIST BEARING CONDITIONS REQUIRE NON-STANDARD BEARING ENDS, JOIST FABRICATOR SHALL PROVIDE SPECIAL BEARING ENDS AS REQUIRED TO ACCOMMODATE SUCH CONDITIONS.

SUSPENSION OF ANY MISCELLANEOUS ITEMS FROM THE JOISTS SHALL BE ONLY AT TOP AND BOTTOM CHORD PANEL POINTS UNLESS SPECIFICALLY DETAILED OTHERWISE.

JOIST FABRICATOR SHALL PROVIDE JOIST BRIDGING PER SJI RECOMMENDATIONS. ALL JOISTS AND JOIST BRIDGING SHALL BE DESIGNED TO RESIST THE UPLIFT PRESSURES SHOWN ON

UNLESS NOTED OTHERWISE:

ALL ROOF JOISTS TO BE DESIGNED FOR A 150 LB ADD-LOAD AND 150 LB BEND-CHECK ALL FLOOR JOISTS TO BE DESIGNED FOR A 300 LB ADD-LOAD AND 300 LB BEND-CHECK

JOIST MANUFACTURER MAY NOT DESIGN JOISTS FOR LESS THAN LOADS SPECIFIED IN THE SJI CAPACITY TABLES FOR JOIST DESIGNATIONS SHOWN ON PLANS. JOIST MANUFACTURER SHALL DESIGN JOISTS FOR ADDITIONAL LOADS AT LOCATIONS SHOWN.

### STRUCTURAL AND MISCELLANEOUS STEEL

STEEL CONSTRUCTION MANUAL, 14TH EDITION MATERIAL SPECIFICATIONS U.N.O.

WIDE FLANGE AND S SHAPES CHANNELS, ANGLES, PLATES AND BARS HOLLOW STRUCTURAL SHAPES (HSS) PIPE STRUCTURAL BOLTS (U.N.O.) MACHINE BOLTS (WHERE NOTED) ANCHOR BOLTS AND RODS AND THREADED RODS HIGH STRENGTH ANCHOR BOLTS AND RODS (AS NOTED) HEADED OR THREADED STUD ANCHORS (H.S.A. OR T.S.A.) DEFORMED BAR ANCHORS (D.B.A.) WELDING ELECTRODES NON-SHRINK GROUT (7,000 PSI) POWDER ACTUATED FASTENER (PAF OR PDF)	ASTM A992, FY=50KSI ASTM A36, FY=36KSI ASTM A500 GR. B, FY=46KSI ASTM A53, GR. B, FY=35KSI ASTM A325 ASTM A307 ASTM F1554 GRADE 36KSI ASTM F1554 GRADE 105KSI ASTM A108-69T ASTM A496 OR ASTM A706 E70XX ASTM C1107, GR. A HILTI X-U (0.157" DIA)
POWDER ACTUATED FASTENER (PAF OR PDF) EXPANSION BOLTS (CONCRETE) EXPANSION BOLTS (MASONRY)	HILTI X-U (0.157" DIA) HILTI KWIK BOLT TZ HILTI KWIK BOLT 3
EPOXY ADHESIVE - CONCRETE EPOXY ADHESIVE - MASONRY	HILTI HIT-HY 200 HILTI HIT-HY 70 W/ SCREEN T

ALL STRUCTURAL STEEL ERECTION AND FABRICATION SHALL BE ACCORDING TO THE CURRENT EDITION OF AISC "SPECIFICATIONS FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

ALL STRUCTURAL BOLTED CONNECTIONS SHALL BE ACCORDING TO THE CURRENT EDITION OF RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" FOR SNUG TIGHTENED. PRETENSIONED, OR SLIP-CRITICAL JOINTS. ALL STRUCTURAL BOLTED CONNECTIONS TO BE SNUG TIGHTENED UNO. FOR SLIP-CRITICAL JOINTS, AS NOTED, THE USE OF TENSION INDICATING WASHERS OR TWIST-OFF BOLT ASSEMBLIES SHALL BE PERMITTED ONLY ACCORDING TO THE ABOVE MENTIONED STANDARD.

4. ALL WELDING SHALL BE PREFORMED IN ACCORDANCE WITH AWS D1.1. ALL WELDING SHALL BE PREFORMED BY AWS CERTIFIED WELDERS. ALL WELDING OF STRUCTURAL STEEL SHALL BE PREFORMED IN THE SHOP WHENEVER PRACTICAL. AN EFFORT HAS BEEN MADE TO INDICATE WELDS THAT CAN BE OR SHOULD BE FIELD WELDED. IT IS, HOWEVER, THE FABRICATORS RESPONSIBILITY TO DECIDE WHERE AND HOW THE WELDING IS TO BE ACCOMPLISHED TO ACHIEVE THE INTENDED RESULT.

COMPLETE JOINT PENETRATION (CJP) WELDING: PROVIDE BACKER BARS, RUN OFF TABS, AND ACCESS HOLES PER AWS D1.1. BACKER BARS SHALL BE REMOVED AFTER WELDING, THE ROOT WELD BACK GOUGED AND REPAIRED IF NECESSARY AND REINFORCED WITH A FILLET. RUN OFF TABS SHALL BE REMOVED AFTER WELDING WITH THE FLANGE EDGE GROUND SMOOTH.

STEEL FABRICATOR SHALL BE AN AISC CERTIFIED SHOP FOR CATEGORY 1 STEEL STRUCTURES AND SHALL MAINTAIN DETAILED QUALITY CONTROL PROCEDURES.

BEAMS SHALL BE FABRICATED FOR PLACEMENT OF NATURAL CAMBER UP.

STRUCTURAL STEEL SUPPLIER SHALL FURNISH COLUMN ANCHOR RODS.

HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED.

PROVIDE CONNECTIONS REQUIRED FOR ATTACHMENT OF WOOD AND STEEL MEMBERS. 10. USE CONNECTIONS AS DETAILED ON PLANS. WHEREVER CONNECTIONS ARE NOT DETAILED FABRICATOR SHALL REQUEST ENGINEER TO SUPPLY CONNECTION DETAIL.

11. ALL COLUMNS, ANCHOR BOLTS, BASE PLATES, ETC., HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING STEEL ERECTION AND CONSTRUCTION. CONFORMANCE TO OR DEVIATION FROM ALLOWABLE CAPACITIES DURING STEEL ERECTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR (SEE GENERAL SECTION OF G.S.N.)

12. PRIOR TO GROUTING, COLUMNS SHALL BE ERECTED AND ALIGNED AS TO PLUMBNESS AND ELEVATION BY MEANS OF STEEL SHIMS OR LEVELING NUTS UNDER THE BASE PLATES. SETTING PLATES SHALL ONLY BE USED AS TEMPLATES TO LOCATE ANCHOR BOLTS DURING CONCRETE PLACEMENT.

ALL WOOD BEARING ON CONCRETE OR MASONRY, IF LESS THAN 4'-0" ABOVE FINISH GRADE, SHALL BE PRESSURE TREATED. WHEREVER NECESSARY TO CUT OR DRILL TREATED LUMBER, TREAT THE CUT OR BORED SURFACES WITH TWO HEAVY COATS OF THE SAME PRESERVATIVE AS USED IN ORIGINAL TREATMENT.

LUMBER MINIMUM PROPERTIES SCHEDULE							
SPECIES/PRODUCT	GRADE	Fb (PSI)	Ft (PSI)	Fv (PSI)	Fc (PSI)	Fc (PSI)	E (PSI)
SPRUCE-PIN-FIR (NORTH)	No. 2	875	450	135	425	1150	1,400,000
MICROLLAM LVL	1.9E	2,600	1,555	285	750	2,510	1,900,000
PARALLAM PSL	1.8E	2,400	1,755	190	425	2,500	1,800,000
PARALLAM PSL	2.0E	2,900	2,025	290	750	2,900	2,000,000
TIMBERSTRAND LSL	1.55E	2,325	1,070	310	800	2,050	1,550,000

PLYWOOD SHEATHING SHALL CONFORM TO THE CURRENT EDITION OF THE U.S. DEPARTMENT OF COMMERCE VOLUNTARY PRODUCT STANDARD 1 OR 2 (DOC PS 1 OR 2) OR THE APA PANEL DESIGN SPECIFICATION (PDS) AND SHALL BE INSTALLED IN STAGGERED PATTERN AND BE FIRE-RETARDANT.

BOLT HOLES IN WOOD SHALL BE DRILLED 1/16" MAXIMUM OVERSIZE. HOLES FOR SCREWS AND LAG SCREWS SHALL BE FIRST BORED FOR THE SAME DEPTH AND DIAMETER OF THE SHANK, THEN THE REMAINDER OCCUPIED BY THE THREAD PORTION SHALL BE BORED NOT LARGER IN DIAMETER THAN THE ROOT OF THE THREAD. ALL SCREWS SHALL BE SCREWED NOT DRIVEN INTO PLACE. PROVIDE WASHERS UNDER ALL NUTS AND HEADS OF BOLTS AND LAG SCREWS.

PROVIDE SOLID BLOCKING AT MID-HEIGHT OF ALL WALLS U.N.O.

PROVIDE SOLID BLOCKING BETWEEN JOISTS AT ALL SUPPORTS.

WOOD FRAMING AND CONSTRUCTION SHALL CONFORM TO THE CURRENT EDITION OF THE NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION.

7. ALL COLUMNS SHOWN ON STRUCTURAL DRAWINGS SHALL BE CONTINUOUS U.N.O.

SET ALL JOISTS WITH CROWN UP.

TYPICAL FRAMING ANCHORS SHALL BE "SIMPSON STRONG TIE" OR APPROVED EQUIVALENT AS INDICATED ON DRAWINGS. INSTALL AND CONNECT PER MANUFACTURER RECOMMENDATIONS.

10. CONNECTORS, ANCHORS, AND FASTENERS ATTACHED TO PRESSURE TREATED WOOD TREATED WITH ACQ-C OR ACQ-D SHALL BE GALVANIZED AND SHALL MEET ONE OF THE FOLLOWING SPECIFICATIONS: ASTM-A653-G185 OR GREATER; ASTM-A123-2.0 OZ/FT2 MIN; ASTM-A153; ASTM-B695-CLASS 110.

11. IF WOOD TREATMENT IS OTHER THAN LISTED ABOVE, CONTACT THE TREATMENT SUPPLIER FOR CORROSION PROTECTION REQUIREMENTS AND SUBMIT TO ARCHITECT/ENGINEER FOR APPROVAL. CONNECTIONS SHOULD NOT INCORPORATE DISSIMILAR METALS OR METALLIC COATINGS IN CONTACT WITH EACH OTHER.

TRUSS DESIGN LOADS PER DESIGN LOAD SECTION OF THE GENERAL STRUCTURAL NOTES.

TRUSS DESIGNS AND ERECTION PLANS SHALL BE BY A PROFESSIONAL ENGINEER REGISTERED EA IN THE STATE OF THE PROJECT CONSTRUCTION. TRUSS DESIGN DRAWINGS SHALL SHOW TRUSS SPACING, TRUSS MARK NUMBERS (CORRESPONDING TO THE DESIGN CALCULATIONS), CONCENTRATED EMBED LOADS, PERMANENT LATERAL RESTRAINT AND DIAGONAL BRACING OF INDIVIDUAL TRUSS MEMBERS, ERECTION TEMPORARY LATERAL RESTRAINT AND DIAGONAL BRACING OF INDIVIDUAL TRUSS MEMBERS, EOR PERMANENT BUILDING STABILITY BRACING OF THE TRUSSES. ALL OF THE PREVIOUSLY MENTIONED COMPONENTS OF THE TRUSS PACKAGE SHALL BE ENGINEERED BY THE TRUSS SUPPLIER WITH SUPPORTING CALCULATIONS. SHOP DRAWINGS SHALL INCLUDE, FOR EACH TYPE OF TRUSS, DIMENSIONS AND CONFIGURATIONS. BRACING LOCATIONS BOTH PERMANENT AND TEMPORARY SPECIFICATIONS FOR CONNECTION PLATES AND NUMBER AND SIZE OF REQUIRED FASTENERS. DESIGN FON CALCULATIONS, SHOP DRAWINGS AND ERECTION PLANS SHALL BE SUBMITTED FOR REVIEW BY THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO FABRICATION.

3. NOT USED.

MAXIMUM TRUSS DEFLECTIONS TO BE: L/360 LIVE LOAD

-SNOW DRIFT

PER TABLE

**SNOW DRIFT TABLE** 

Pd (PSF)

20

DRIFT HEIGHT | DRIFT LENGTH

-UNIFORM SNOW

LOAD PER GSN

W (FT)

L/240 TOTAL LOAD

THE PLANS ARE DIAGRAMMATIC TO ASSIST TRUSS FABRICATOR IN FRAMING CONCEPTS. FABRICATOR AND ERECTOR TO NOTE THAT PLANS DO NOT DEFINE THE ACTUAL NUMBER OF PIECES TO HORIZ BE PLACED.

TRUSS FABRICATOR SHALL PROVIDE GALVANIZED METAL FRAMING ANCHORS FOR TRUSS CONNECTIONS AT BEARING LOCATIONS. TRUSS FABRICATOR TO SUPPLY GALVANIZED METAL FRAMING IBC ANCHORS CAPABLE OF RESISTING THE TRUSS UPLIFT. TRUSS FABRICATOR TO PROVIDE GALVANIZED INFO METAL HANGERS WHERE TRUSS ARE SUPPORTED BY GIRDERS, DOUBLE TRUSSES, ETC TO MAINTAIN LEVEL CEILING BELOW.

ADD'L

AESS

**ATTM** 

**BLDG** 

BLKG

BOT

**BSMT** 

BTWN

CMU

LSL

MAX

MECH

MFR

OD

OPP

OSB

**PEMB** 

PLF

PSI

OTY

REINF

REM

REQ'D

SCHD

SOG

STD

TOM

TOS

TOW

TSA

TYP

**VERT** 

UNO

**WWR** 

WF

**UPLIFT PRESSURE (PSF)** 

49.6

38.7

ROOF SURFACE.

a = 8' - 0"

AND 100 SQUARE FEET.

WIND COMPONENTS AND CLADDING

PRESSURES SHOWN ACT AWAY FROM THE

COMPONENT AREA SHOWN IS THE AREA

TRIBUTARY TO THE COMPONENT. LINEAR INTERPOLATION IS ALLOWED BETWEEN 10

COMPONENT

AREA (SF)

100

**ROOF ZONES** 

(2)

65.5

51.5

89.2

61.2

NUMBER

ANCHOR BOLT **ADDITIONAL** ARCHITECTURALLY EXPOSED STRUCTURAL STEEL ALTERNATE **ARCHITECTURAL** ATTACHMENT BUILDING BLOCKING BOTTOM **BASEMENT** BETWEEN COLD FORMED STEEL CONTROL OR CONSTRUCTION JOINT COMPLETE JOINT PENETRATION WELD CENTERLINE CLEAR

**CONCRETE MASONRY UNITS** COLUMN CONCRETE

CONC CONNECTION CONT CONTINUOUS COORD COORDINATE

DEFORMED BAR ANCHOR DETAIL DIAMETER **DIMENSION** 

**EACH FACE** 

**EDGE NAILING EQUAL EACH WAY** 

**FOUNDATION FINISH** FLOOR

FOOTING FIELD VERIFY GAUGE

HOOK HORIZONTAL HIGH STRENGTH

INSIDE DIAMETER

NON-SHRINK ON CENTER **OUTSIDE DIAMETER** 

ORIENTED STRAND BOARD POWDER ACTUATED FASTENER PRE-ENGINEERED METAL BUILDING PLATE

POUNDS PER LINEAR FOOT POUNDS PER SQUARE INCH PARALLEL STRAND LUMBER POINT

QUANTITY REINFORCING REMAINDER REQUIRED **ROOF TOP UNIT** SCHEDULE SIMILAR SHORT LEG VERTICAL SLAB-ON-GRADE SPRUCE-PINE-FIR

STANDARD TOP AND BOTTOM THICK TOP OF FOOTING TOP OF MASONRY TOP OF STEEL TOP OF WALL

VERTICAL WIDE FLANGE

TYPICAL WELDED WIRE REINFORCING

DIRECTION DOUGLAS FIR-LARCH

**EMBEDDED** ENGINEER OF RECORD

> **EXISTING** EXPANSION

FIELD NAILING FIBER-REINFORCED POLYMER

GRADE

HEADED STUD ANCHOR HOLLOW STRUCTURAL SHAPE INTERNATIONAL BUILDING CODE INFORMATION

POUNDS LONG LONG LEG HORIZONTAL LONG LEG VERTICAL LAMINATED STRAND LUMBER LAMINATED VENEER LUMBER

> MAXIMUM MECHANICAL MANUFACTURER MINIMUM METAL NOT IN CONTRACT

OPPOSITE

POUNDS PER SQUARE FOOT

SQUARE

THREADED STUD ANCHOR UNLESS NOTED OTHERWISE **REVISION:** 

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3/20/2025 24-3421

SHEET NO.:

	PECIAL INSPECTION S	INSPECTIO	N
MATERIAL / ACTIVITY	SERVICE	EXTENT	AGENT
	Inspection of Fabricators	EXICITI	AGENT
		Doriodio	
Verify fabrication/quality control procedures	In-plant review (3)	Periodic	S.I.
1705.1.1 Special Cases (work unusual in nature, including but not limited to alternative materials and	Submittal review, shop (3)		
systems, unusual design applications, materials and systems with special manufacturer's requirements)	and/or field inspection		S.I.
	5.2 Steel Construction	L	
4. Establishment			
1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter N, paragraph 3.2 for compliance with construction documents)	Submittal Review	Each submittal	
·	0, (0) 15.11.	B : I:	S.I.
Material verification of structural steel     Embedments (Verify diameter, grade, type, length,	Shop (3) and field inspection	Periodic	S.I.
embedment. See 1705.3 for anchors)	Field inspection	Periodic	S.I.
4. Verify member locations, braces, stiffeners, and			0.1.
application of joint details at each connection comply with construction documents	Field inspection	Periodic	S.I.
5. Structural steel welding:			S.I.
a. Inspection tasks Prior to Welding (Observe, or		Observe or Perform as	
perform for each welded joint or member, the QA tasks	Shop (3) and field inspection	noted (4)	C I
listed in AISC 360, Table N5.4-1) b. Inspection tasks During Welding (Observe, or			S.I.
perform for each welded joint or member, the QA tasks	Shop (3) and field inspection	Observe (4)	
listed in AISC 360, Table N5.4-2)			S.I.
c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in	Shop (3) and field inspection	Observe or Perform as	
AISC 360, Table N5.4-3)	p (5) and note moposition	noted (4)	S.I.
d. Nondestructive testing (NDT) of welded joints: see			
1) Complete penetration groove welds 5/16" or	Shop (3) or field ultrasonic	<b>5</b>	
greater in <i>risk category</i> III or IV	testing - 100%	Periodic	S.I.
2) Complete penetration groove welds 5/16" or	Shop (3) or field ultrasonic	Dovidation	
greater in risk category II	testing - 10% of welds minimum	Periodic	S.I.
3) Thermally cut surfaces of access holes when	Shop (3) or field magnetic	Periodic	
material t > 2"	Partical or Penetrant testing	renodic	S.I.
4) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1	Shop (3) or field radiographic or Ultrasonic testing	Periodic	S.I.
5) Fabricator's NDT reports when fabricator performs	-	Foob submitted (5)	0.1.
NDT	Verify reports	Each submittal (5)	S.I.
6. Structural steel bolting:	Shop (3) and field inspection		S.I.
a. Inspection tasks Prior to Bolting (Observe, or perform		Observe or Perform as	
tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6-1)		noted (4)	
,			S.I.
b.Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2)		Observe (4)	S.I.
1) Pre-tensioned and slip-critical joints			S.I.
a) Turn-of-nut with matching markings		Periodic	S.I.
b) Direct tension indicator c) Twist-off type tension control bolt		Periodic Periodic	S.I. S.I.
d) Turn-of-nut without matching markings		Continuous	S.I.
e) Calibrated wrench		Continuous	S.I.
<ul><li>2) Snug-tight joints</li><li>c. Inspection tasks After Bolting (Perform tasks for each</li></ul>		Periodic	S.I.
bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3)		Perform (4)	S.I.
7. Inspection of steel elements of composite construction			<u> </u>
prior to concrete placement in accordance with QA tasks	Shop (3) and field inspection	Observe or Perform as	
listed in AISC 360, Table N6.1	and testing	noted (4)	S.I.
1705.2.2 Steel Cons	struction Other Than Structu	ıral Steel	
Material verification of cold-formed steel deck:			S.I.
a. Identification markings     b. Manufacturer's certified test reports	Field inspection Submittal Review	Periodic Each submittal	S.I. S.I.
Connection of cold-formed steel deck to supporting		Lacii Subiliillai	J.1.
structure:	Shop (3) and field inspection		S.I.
a. Welding     b. Other fasteners (in accordance with AISC		Periodic	S.I.
360,Section N6)			S.I.
Verify fasteners are in conformance with approved		Periodic	
submittal  2) Verify fastener installation is in conformance with			S.I.
approved submittal and manufacturer's		Periodic	
recommendations			S.I.
	Concrete Construction	·	
· · ·- · · · · · · · · · · ·	Shop (3) and field inspection	Periodic	S.I.
• • • • • • • • • • • • • • • • • • • •	Shop (3) and field inspection	Periodic	S.I.
for welding)			
for welding)  3. Inspection of anchors cast in concrete			
<ol> <li>Inspection of reinforcing steel installation (see 1705.2.2 for welding)</li> <li>Inspection of anchors cast in concrete</li> <li>Inspection of anchors and reinforcing steel postinstalled in hardened concrete: Per research reports</li> </ol>		Periodic or as required by	
for welding) 3. Inspection of anchors cast in concrete 4. Inspection of anchors and reinforcing steel post- installed in hardened concrete: Per research reports including verification of anchor type, anchor dimensions,	Field inspection	Periodic or as required by the research report issued	
for welding) 3. Inspection of anchors cast in concrete 4. Inspection of anchors and reinforcing steel post- installed in hardened concrete: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor	Field inspection	·	
for welding) 3. Inspection of anchors cast in concrete 4. Inspection of anchors and reinforcing steel post- installed in hardened concrete: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness,	Field inspection	the research report issued	Q١
for welding) 3. Inspection of anchors cast in concrete 4. Inspection of anchors and reinforcing steel post- installed in hardened concrete: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque	Field inspection  Shop (3) and field inspection	the research report issued	S.I. S.I.
for welding) 3. Inspection of anchors cast in concrete 4. Inspection of anchors and reinforcing steel post- installed in hardened concrete: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque 5. Verify use of approved design mix 6. Fresh concrete sampling, perform slump and air	Shop (3) and field inspection	the research report issued by an approved source  Periodic	S.I.
for welding) 3. Inspection of anchors cast in concrete 4. Inspection of anchors and reinforcing steel post- installed in hardened concrete: Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque 5. Verify use of approved design mix 6. Fresh concrete sampling, perform slump and air content tests and determine temperature of concrete	Shop (3) and field inspection Shop (3) and field inspection	the research report issued by an approved source  Periodic  Continuous	
for welding) 3. Inspection of anchors cast in concrete 4. Inspection of anchors and reinforcing steel post- installed in hardened concrete: Per research reports including verification of anchor type, anchor dimensions,	Shop (3) and field inspection	the research report issued by an approved source  Periodic	S.I.

	ECIAL INSPECTION S	INSPECTIO	N
MATERIAL / ACTIVITY	SERVICE	EXTENT	AGEN
	Masonry Construction		7102.
	B - Quality Assurance		
(A) Level A, B and C Quality Assurance:	B - Quanty Assurance		
Verify compliance with approved submittals	Field Inspection	Periodic	0.1
	r leid mapection	renodic	S.I
(B) Level B Quality Assurance:	Testing by unit strength		
Verification of f'm and f' AAC prior to construction	method or prism test method	Periodic	S.I.
(D) Levels B and C Quality Assurance:	•		
Verification of Slump Flow and Visual Stability			
Index (VSI) of self-consolidating grout as delivered to	Field testing	Continuous	0.1
the project	Piolel in a section	Davis dia	S.I. S.I.
Verify compliance with approved submittals     Verify proportions of site-mixed mortar, grout and	Field inspection	Periodic	5.1.
prestressing grout for bonded tendons	Field Inspection	Periodic	S.I.
Verify grade, type, and size of reinforcement and			0.1.
anchor bolts, and prestressing tendons and	Field Inspection	Periodic	
anchorages			S.I.
5. Verify construction of mortar joints	Field Inspection	Periodic	S.I.
6. Verify placement of reinforcement, connectors, and	Field Inspection	Level B - Periodic	S.I.
prestressing tendons and anchorages	. Iola Mopeodoli	Level C - Continuous	S.I.
7. Verify grout space prior to grouting	Field Inspection	Level B - Periodic	S.I.
	ı ···	Level C - Continuous	S.I.
8. Verify placement of grout and prestressing grout for bonded tendons	Field Inspection	Continuous	S.I.
9. Verify size and location of structural masonry	•		S.I.
elements	Field Inspection	Periodic	S.I.
10. Verify type, size, and location of anchors, including		Level B - Periodic	S.I.
details of anchorage of masonry to structural members,	Field inspection	Level C - Continuous	
frames, or other construction.		Level C - Continuous	S.I.
12. Verify preparation, construction, and protestion of			
masonry during cold weather (temperature below	Field inspection	Periodic	0.1
40°F) or hot weather (temperature above 90°F)			S.I.
13. Verify application and measurement of prestressing force	Field Inspection	Continuous	S.I.
14. Verify placement of AAC masonry units and			0.1.
construction of thin-bed mortar joints (first 5000 SF of	Field inspection	Continuous	
AAC masonry)			S.I.
15. Verify placement of AAC masonry units and		Level B - Periodic	S.I.
construction of thin-bed mortar joints (after the first 5000	Field inspection	Laval C. Cantinuava	
SF of AAC masonry)		Level C - Continuous	S.I.
16. Verify properties of thin-bed mortar for AAC	Field increation	Continuous	
masonry (first 5000 SF of AAC masonry)	Field inspection	Continuous	S.I.
17. Verify properties of thin-bed mortar forAAC masonry	Field inspection	Level B - Periodic	S.I.
(after the first 5000 SF of AAC masonry)	. ioia mopoulon	Level C - Continuous	S.I.
18. Prepare grout and mortar specimens	Field testing	Level B - Periodic	S.I.
. •		Level C - Continuous	S.I.
19. Observe preparation of prisms	Field inspection	Level B - Periodic	S.I. S.I.
20. Inspection of anchors and reinforcing steel post-		Level C - Continuous	S.I.
nstalled (epoxy, expansion, etc.): Per research reports			
ncluding verification of anchor type, anchor dimensions,		Periodic or as required by	
nole dimensions, hole cleaning procedures, anchor	Field inspection	the research report issued	
spacing, edge distances, location to masonry joints,	·	by an approved source	
masonry minimum thickness, anchor embedment and			_
ightening torque			S.I.
	NSPECTION AGENTS		
FIRM		ADDRESS	
1. G.E. Geotechnical Engineer			
S.I. Special Inspector - Not Yet Selected 3.			
3. 4.			
ा भः Notes: 1. The inspection and testing agent(s) shall be engaged by the Own	er or the Owner's Agent, and not by the	Contractor or Subcontractor	
whose work is to be inspected or tested. Any conflict of interes	t must be disclosed to the Building Offic	ial prior to commencing work.	
The qualifications of the Special Inspector(s) and/or testing age the Design Professional.	encies may be subject to the approval of	the Building Official and/or	
-			
2. If the list of Inspection Agents is noted as "Not Yet Selected" the Control of the United Selected of of the United		mittal of special inspection	
aganaian for approval by the Building Officel and the Decian Profe			
agencies for approval by the Building Offical and the Design Profe		accordance with	
3. Special Insepctions as required by Section 1704.2.5 are not requi	red where the fabricator is approved in		
3. Special Insepctions as required by Section 1704.2.5 are not required by Section 1704.2.5 are not required.	,,		
<ul> <li>3. Special Insepctions as required by Section 1704.2.5 are not required. IBC Section 1704.2.5.2</li> <li>4. Observe on a random basis, operations need not be delayed pend.</li> </ul>	,,		
3. Special Insepctions as required by Section 1704.2.5 are not requi	ling these inspections. Perform these tas	sks for each welded	

## STATEMENT OF SPECIAL INSPECTIONS

- 1. THIS STRUCTURAL STATEMENT OF SPECIAL INSPECTIONS IS INCLUDED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE BUILDING CODE. THE TABLE OF REQUIRED SPECIAL INSPECTIONS IDENTIFIES THE STRUCTURAL ITEMS TO BE INSPECTED APPLICABLE TO THIS PROJECT AS WELL AS IDENTIFYING THE APPROVED AGENCIES TO BE RETAINED FOR CONDUCTING THESE INSPECTIONS AND TESTS.
- SPECIAL INSPECTIONS SHALL BE PERFORMED BY PERSONNEL AS INDICATED IN THE TABLE.
- S.I. SPECIAL INSPECTOR G.E. GEOTECHNICAL ENGINEER
- 3. IF SPECIAL INSPECTION IS WAIVED BY THE GOVERNING AUTHORITIES, THE GENERAL CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD A COPY OF THE BUILDING OFFICIALS WRITTEN EXEMPTION FOR SPECIAL INSPECTION PRIOR TO STARTING WORK.

Jones GillamRenz
730 N. Ninth 1881 Main Street, Suite 301
Salina, KS 67401 Kansas City, MO 64108
785.827.038 jgr@jgrarchitects.com

TA FE AV:

S: PELE'S PLAYGROUND,

S ROOF TOP BAR REMODEL and ADDITIONS: FAPARTMENTS and R

KANSAS

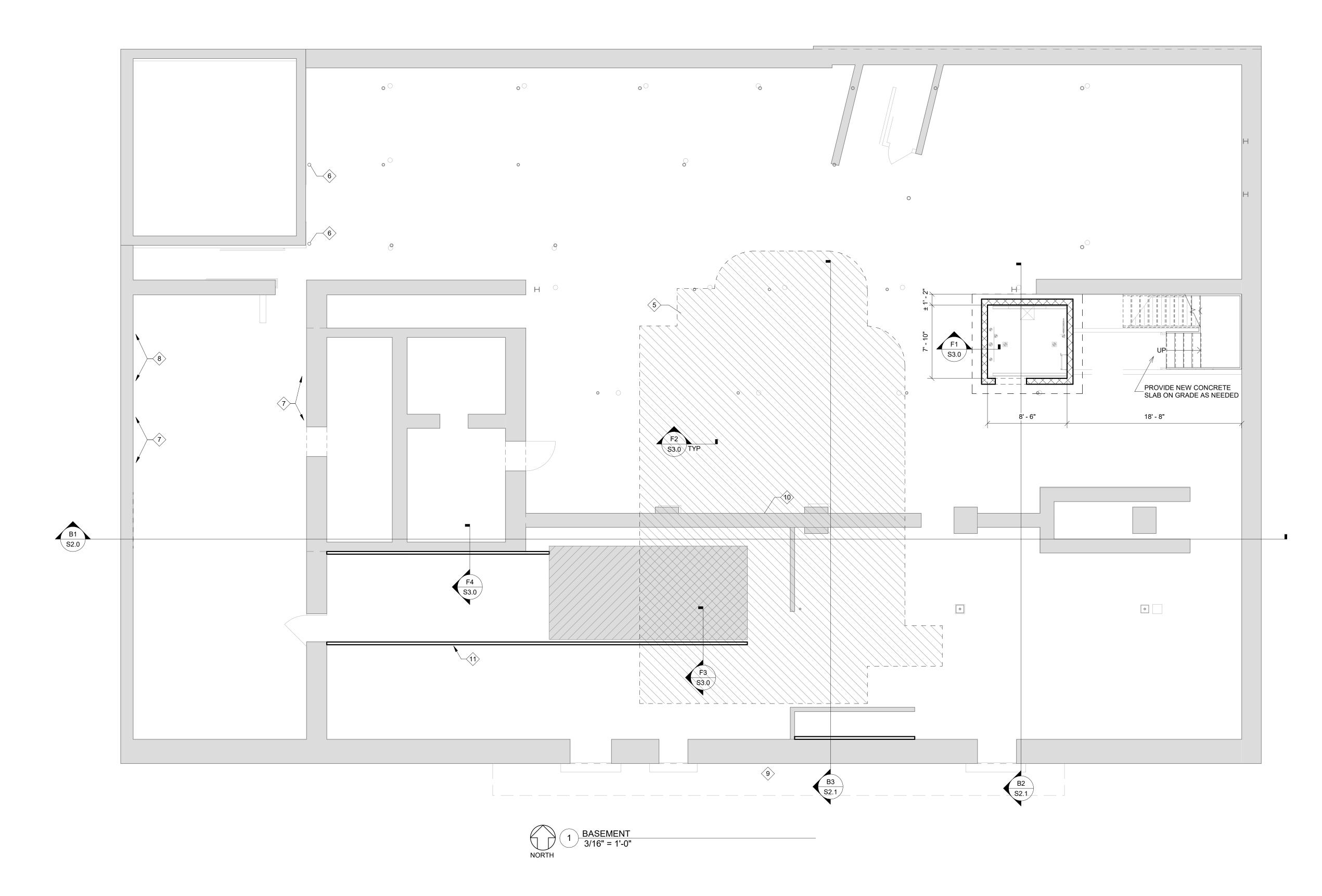


REVISION:					
DATE: 3/20/202		3/20/2025			

24-3421 SHEET NO.:

**S0.1** 

- 2. DIMENSIONS SHOWN HERE APPLY TO STRUCTURAL ELEMENTS ONLY. SEE ARCHITECTURAL FOR ANY DIMENSIONS NOT NOTED HERE.
- 3. ALL BEARING WALLS TO BE: 2x6 SPF No 2 @ 16" O.C. UNLESS NOTED OTHERWISE
- 4. SEE GSN SHEET S0.0 FOR TYPICAL CMU WALL REINFORCING.
- (5) PLACE POST BELOW EACH PLAYGROUND COLUMN PER DETAIL
- 4" POST COLUMN WELDED UNDER EXISTING BEAM AT WALL W/ 8"x8"x1/2" BASE PLATE W/ (4) EXPANSION ANCHORS INTO FLOOR SLAB.
- 7 VOIDS IN EXISTING STONE WALL TO BE CLEANED AND FILLED WITH CONCRETE PATCHING MATERIAL.
- 8 JOIST BEARING ON DEGRADED BRICK SHORE JOIST AND REPAIR BRICK FOR FULL SOUND BEARING CONDITION PER ARCH BRICK REPAIR NOTES.
- 9 EXISTING PASSAGE UNDER SIDE WALK AS ACCESSIBLE, VERIFY IN SOUND CONDITION AND PROVIDE REPAIRS AS NEEDED.
- (10) INFILL AND PATCH HOLE IN EXISTING STONE WALL.
- PROVIDE 42" OPENING IN STUD WALL W/ (3) 2x8 HEADER W/ (2) TRIMMER STUDS EACH END.



DATE:

JOB:
SHEET NO.: 3/20/2025 24-3421

4. SEE GSN SHEET S0.0 FOR TYPICAL CMU WALL REINFORCING

FULLY GROUTED.

6 REMOVE EXISTING DETERIORATED BRICK VENEER. EVALUATE CMU WALL AND NOTIFY ARCH AND ENGINEER IF DAMAGE FOUND. PROVIDE WATER PROOFING AT CMU PER ARCH. REBUILD BRICK VENEER W/ BRICK TIES TO CMU PER ARCH.

AREAS. EVALUATE WALL AND REPLACE OUTER WYTHE AT DAMAGED AREAS.
REPLACEMENT TO BE IN LIKE KIND TO ORIGINAL WALL BONDED AND W/ HEADER BRICKS TO INNER WYTHE.

8 INTERIOR OF MULTI-WYTHE BRICK WALL DETERIORATED AND CRUMBLING AT BASE. REPLACE IN LIKE KIND TO ORIGINAL WALL BONDED AND W/ HEADER BRICKS TO INNER

(9) PATCH HOLES AND VOIDS IN WALL TO SOLID AND SOUND CONDITION.

10 TYPICAL AROUND INTERIOR OF BUILDING AT HOLES, JOIST POCKETS, VOIDS, PATCH AND REPLACE BRICK TO SOLID AND SOUND CONDITION.

(11) FULL LENGTH SISTER JOIST W/ 1-3/4"x9-1/2" MICROLLAM LVL 1.9E.

PROVIDE LUS28 JOIST HANGER AT EACH JOIST PROVIDE NEW OR SISTER 2x12 JOIST AT NOTCHED JOIST.

JOIST W/ (2) ROWS OF 10d NAILS @12" O.C.

STUD WALLS.

ARCHITECTURAL FOR ANY DIMENSIONS NOT NOTED HERE.

NOTED OTHERWISE

5 REMOVE LOOSE BRICK. INFILL HOLE W/ MATCHING 4 WYTHE BRICK TOOTHED IN AND

 $raket{7}$  EXTERIOR OF MULTI-WYTHE BRICK WALL DETERIORATED AND DELAMINATING AT

APPROXIMATLY HALF OF JOISTS ARE NOTCHED AND REQUIRE A FULL LENGTH SISTER W/ 1-3/4"x9-1/2" MICROLLAM LVL 1.9E.

JOISTS HAVE TERMITE DAMAGED. FULL LENGTH SISTER W/ 1-3/4"x9-1/2" MICROLLAM

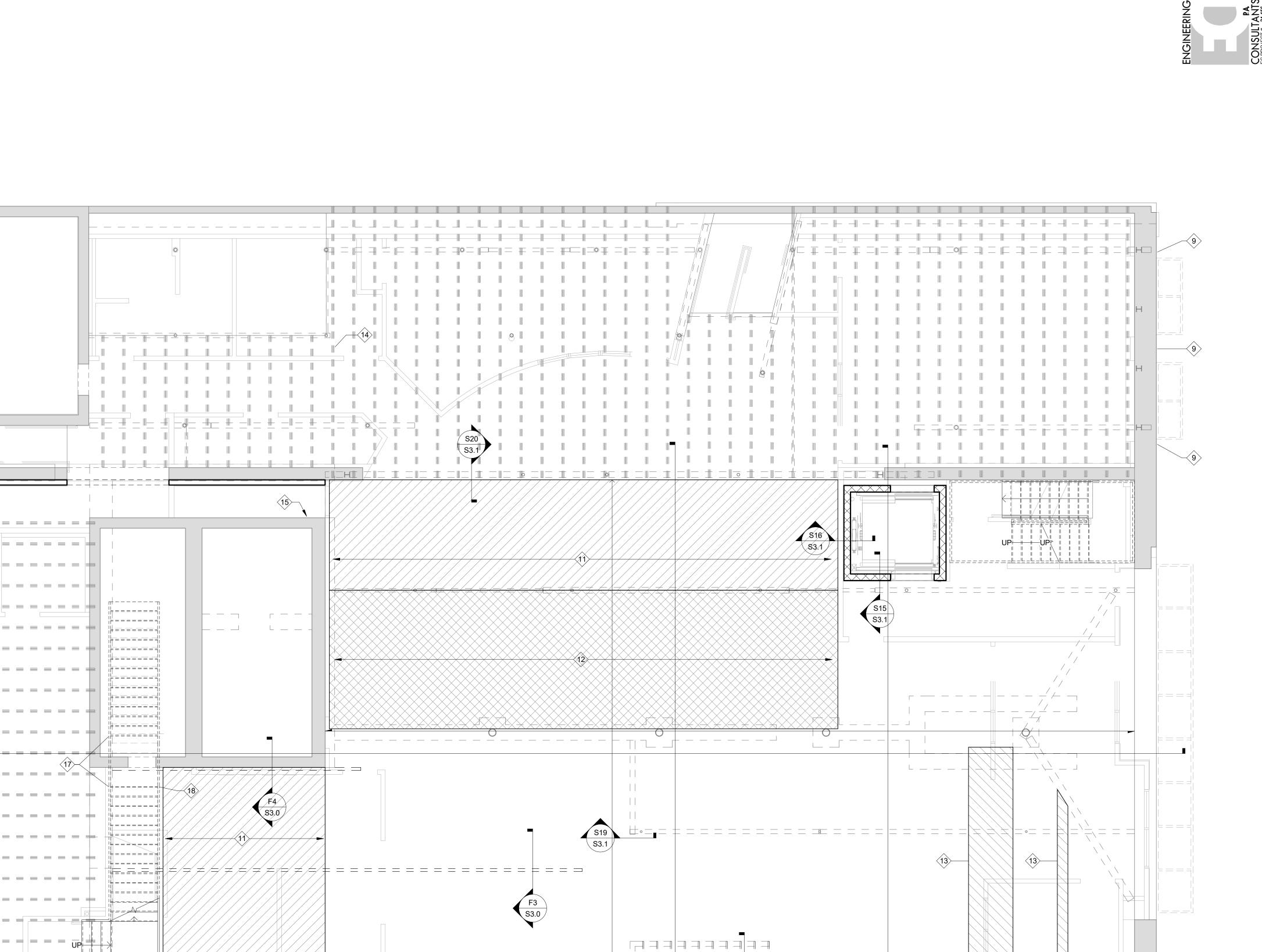
JOIST CHORD BENT STRAIGHTEN AS POSSIBLE AND REINFORCE W/ 1/4"x4" PLATE ALONG BOTTOM W/ 1/8" 2-6 SKIP WELD. PLATE TO EXTEND 8" BEYOND DAMAGE.

16. ALL NEW SISTER JOISTS TO BE TIGHT TO FLOOR DECK AND CONNECTED TO EXISTING

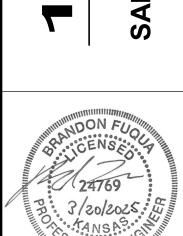
\$\langle 17 \rangle STAIR LANDING BEAM PER DETAILS TO BEAR ON STUD PACK IN WALLS.

(18) STAIR LANDING BEAM PER DETAILS W/ S-LBV HANGER TO 1000S162-54 BOX BEAM IN

S21 S3.1



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



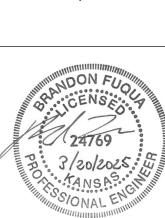
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S18 S3.1 B3 S2.1 SHEET NO.: **S1.1** 

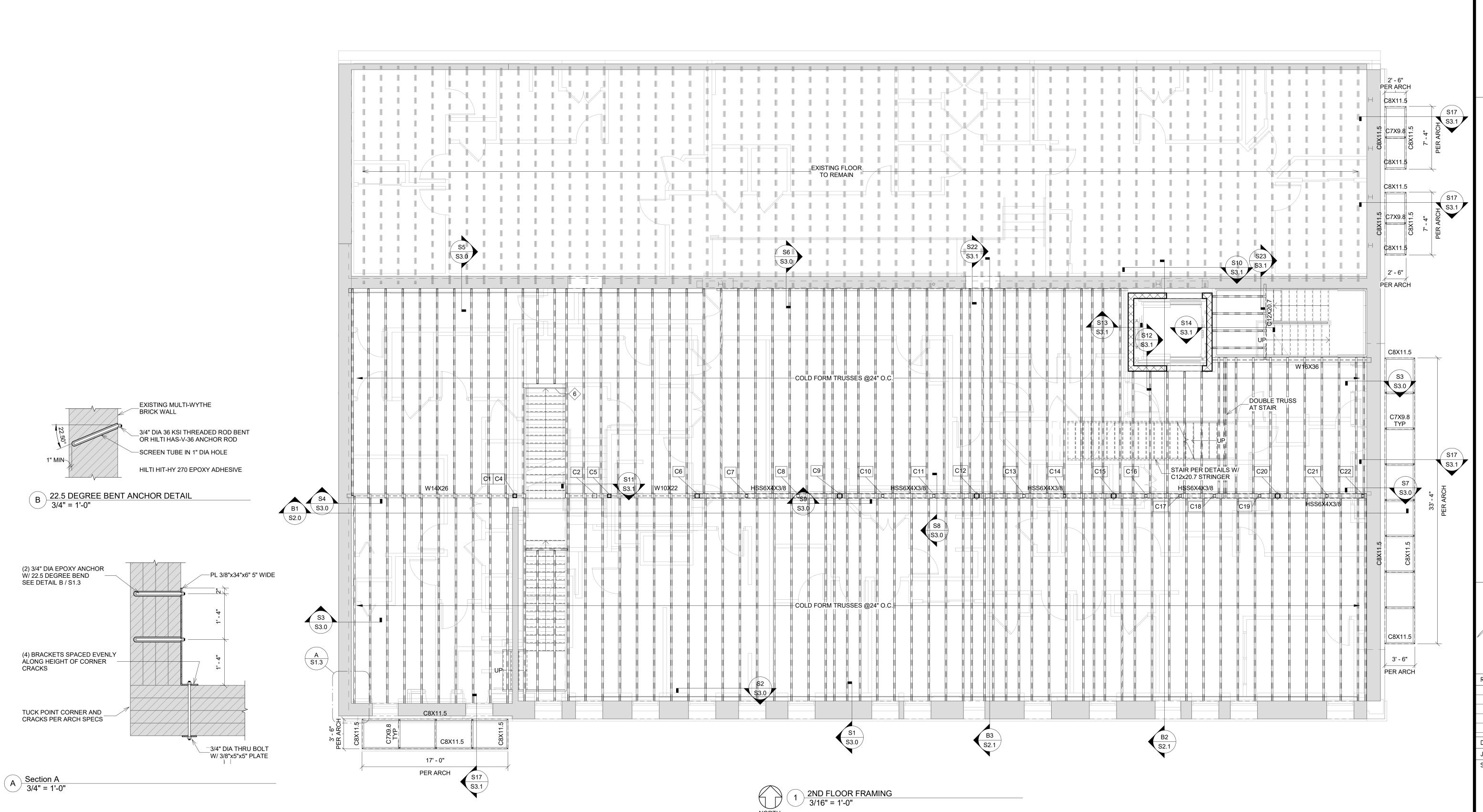
- DIMENSIONS SHOWN HERE APPLY TO STRUCTURAL ELEMENTS ONLY. SEE ARCHITECTURAL FOR ANY DIMENSIONS NOT NOTED HERE.
- 3. SEE GSN SHEET S0.0 FOR TYPICAL CMU WALL REINFORCING
- 4. ALL FLOOR JOISTS TO BE DESIGNED PER REQUIREMENTS IN STEEL JOIST SECTION OF GENERAL STRUCTURAL NOTES.

TA FE AV:
S: PELE'S PLAYGROUND,
A ROOF TOP BAR



3/20/2025 DATE: JOB: 24-3421 SHEET NO.:

- 2. DIMENSIONS SHOWN HERE APPLY TO STRUCTURAL ELEMENTS ONLY. SEE ARCHITECTURAL FOR ANY DIMENSIONS NOT NOTED HERE.
- 3. SEE GSN SHEET S0.0 FOR TYPICAL CMU WALL REINFORCING
- 4. ALL CFS FLOOR TRUSSES TO BE DESIGNED PER REQUIREMENTS IN COLD
- FORMED STEEL JOIST SECTION OF GENERAL STRUCTURAL NOTES.
- FLOOR SHEATHING: 3/4" APA OSB OR PLYWOOD ATTACHED W/#8 SCREWS @6" O.C. EDGE AND @12" O.C. FIELD.
- 6 STAIR LANDING BEAM TO BEAR ON CFS STUD WALL.



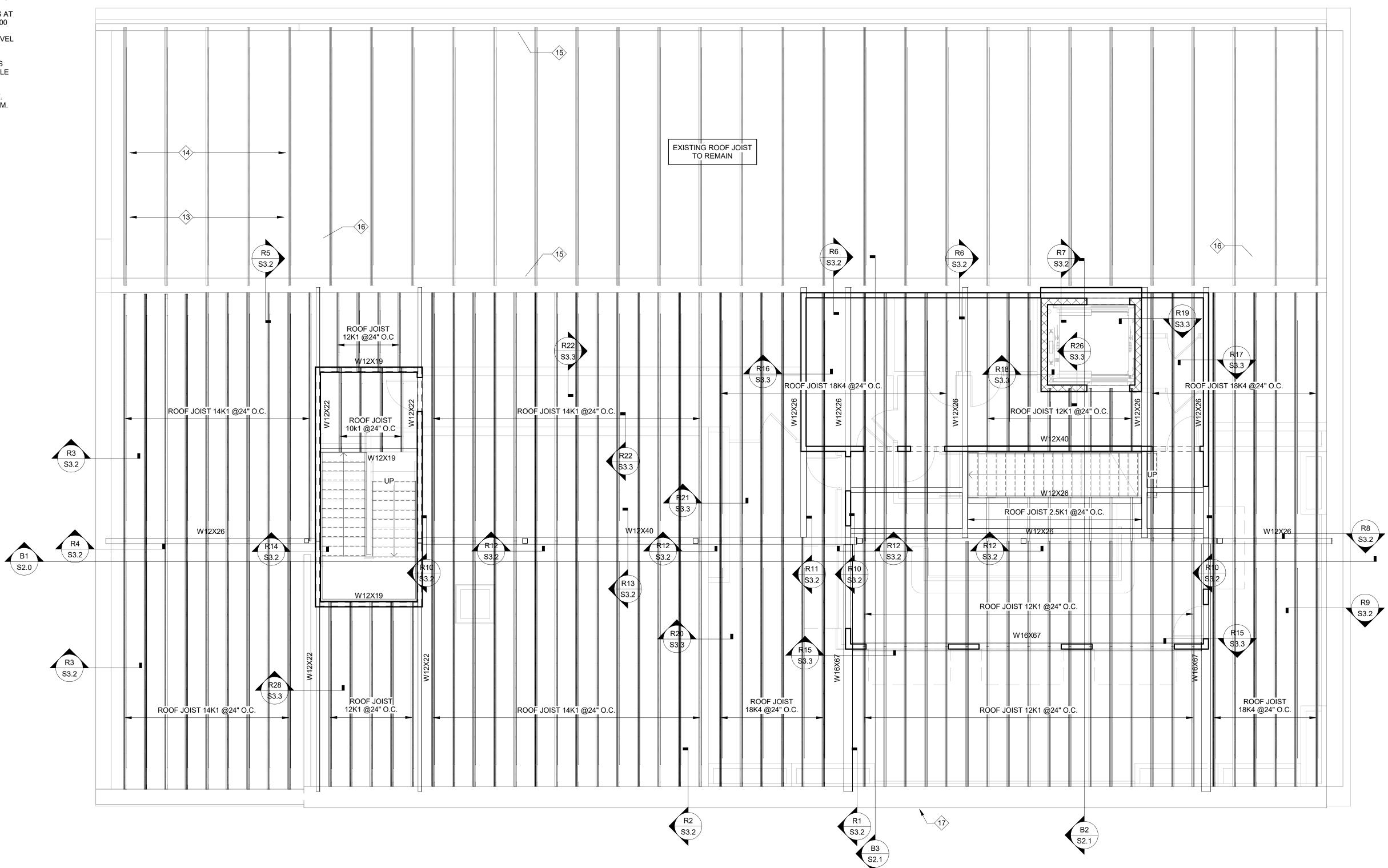
REMODEL and ADDITIONS
APARTMENTS and



**REVISION:** 

3/20/2025 JOB: 24-3421 SHEET NO.:

- ARCHITECTURAL FOR ANY DIMENSIONS NOT NOTED HERE.
- 3. ALL EXTERIOR STUD WALLS AND INTERIOR BEARING WALLS TO BE 600S162-33 CFS @ 16" O.C. W/ 33 MIL TRACK AND HILTI-SHOT NAILS @16" O.C.
- 4. <u>ROOF SHEATHING:</u> 5/8" APA OSB FIRE-RETARDANT ATTACHED WITH 10d (0.148"x3") RING SHANK NAILS @ 6" O.C. EDGES & 12" O.C. FIELD
- 5. ROOF DECK: 1 ½" DEEP 22 GA. TYPE B "1.5B22" STEEL DECK. DECK SHALL BE BY "NEW MILLENNIUM BUILDING SYSTEMS" OR APPROVED EQUIVALENT. 3 SPAN MINIMUM FOR STEEL DECK. ATTACH DECK TO PERPENDICULAR SUPPORTS WITH #12 TEK SCREWS AT EVERY FLUTE. ATTACH DECK TO PARALLEL SUPPORTS WITH #12 TEK SCREWS @ 24" O.C. NO DECK SIDE LAP CONNECTION.
- 6. ALL ROOF JOISTS TO BE DESIGNED PER REQUIREMENTS IN STEEL JOIST SECTION OF GENERAL STRUCTURAL NOTES.
- 7. ROOF JOISTS SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR A 500 LB ADD-LOAD AND A 500 LB BEND-CHECK.
- 8. ROOF TRUSS DESIGN PER GSN LOADS AND REQUIREMENTS
- 9. COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT AND THEIR NOTED SUPPORTS WITH MECHANICAL DRAWINGS. ALL MECHANICAL UNITS MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS, VERIFY ALL MECHANICAL UNITS WITH MECHANICAL DRAWINGS.
- 10. LINTELS PER LINTEL SCHEDULE.
- 11. SW-X DENOTES SHEAR WALL TYPE AND LOCATION. SHEAR WALL TYPE AND HOLD DOWNS PER SHEAR WALL SCHEDULE.
- 12. THE ROOF PLANS ARE DIAGRAMMATIC TO ASSIST TRUSS FABRICATOR IN FRAMING CONCEPTS. SUBMIT TRUSS SHOP DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS NAD GSN"S PRIOR TO FABRICATION. FABRICATOR AND ERECTOR TO NOTE THAT PLANS DO NOT DEFINE THE ACTUAL NUMBER OF PIECES TO BE PLACED. TRUSS FABRICATOR SHALL PROVIDE GALVANIZED METAL TIE DOWNS AT EXTERIOR BEARING WALLS AND AT ALL LOCATIONS OF UPLIFT IN EXCESS OF 100 LBS. TRUSS FABRICATOR TO PROVIDE GALVANIZED METAL HANGERS WHERE TRUSS ARE SUPPORTED BY GIRDERS, DOUBLE TRUSSES, ETC TO MAINTAIN LEVEL CEILING BELOW.
- EXISTING BAR JOISTS HAVE CORROSION AT METAL DECK. CLEAN AND IF HOLES FOUND REINFORCE TOP CHORD WITH 3/4"ø ROD W/ 1/4" 2-8 SKIP WELD TO ANGLE CHORD. 48" MIN LENGTH TO EXTEND TO PANEL POINT BEYOND DAMAGE.
- HOLES AND CORROSION IN METAL DECK. REPLACE AREAS OF DAMAGED DECK. REPLACEMENT TO BE JOIST CENTER TO JOIST CENTER AND 24" WIDTH MINIMUM.
- HOLES AND VOIDS IN MASONRY WALL TO BE PATCHED AND FILLED IF LARGER THAN 6"ø.
- 16 PROVIDE L3x3x1/4 FRAME AROUND EXISTING ROOF DECK OPENING.
- 17 SOLID INFILL OF BOTTOM OF EXISTING WINDOWS PER ARCH, TYP.



ROOF FRAMING PLAN
3/16" = 1'-0"

IIIamRenz 381 Main Street, Suite 301

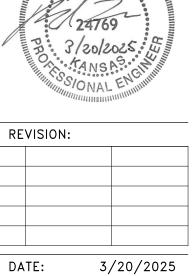
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D1 N. SANTATE AV
REMODEL and ADDITIONS: PELE'S PLAYGROUND,
INA APARTMENTS and ROOF TOP BAR KA

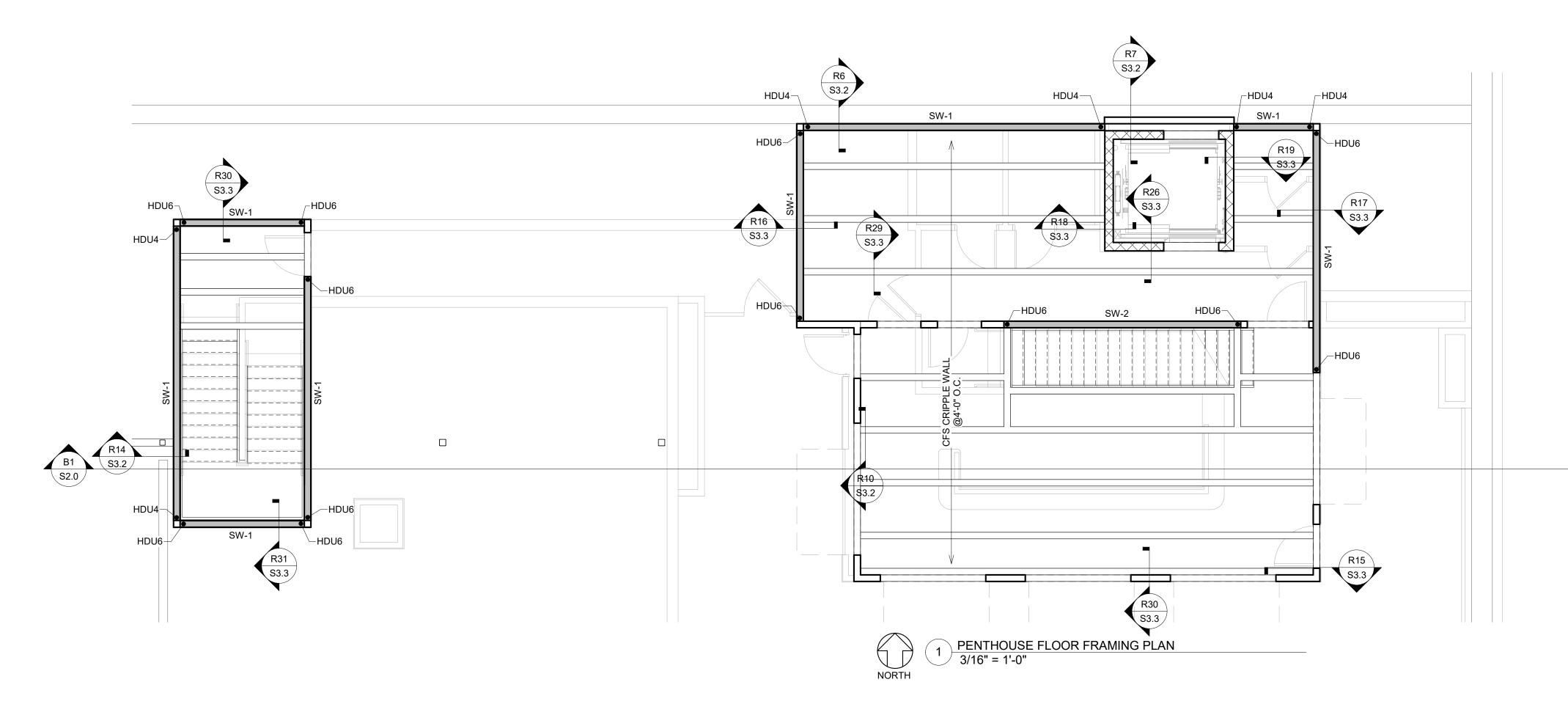
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JOB: 24-3421 SHEET NO.:

# PLAN NOTES 1. FOR GENERAL STRUCTURAL NOTES (GSN) SEE SHEET S0.0

- 2. DIMENSIONS SHOWN HERE APPLY TO STRUCTURAL ELEMENTS ONLY. SEE ARCHITECTURAL FOR ANY DIMENSIONS NOT NOTED HERE.
- 3. SEE GSN SHEET S0.0 FOR TYPICAL CMU WALL REINFORCING
- 4. ALL FLOOR JOISTS TO BE DESIGNED PER REQUIREMENTS IN STEEL JOIST SECTION OF GENERAL STRUCTURAL NOTES.
- CONCRETE SLAB OVER METAL DECK:
   4" TOTAL SLAB DEPTH OVER 1" 22 GAUGE DECK W/ 4x4-W2.9xW2.9 WWR
- 6. CRIPPLE WALLS TO BE 362S162-33 CFS @16" O.C. PER PLAN W/ HILTI SHOT NAILS @16" O.C.
- 7. ALL EXTERIOR STUD WALLS AND INTERIOR BEARING WALLS TO BE 600S162-33 CFS @ 16" O.C. W/ 33 MIL TRACK AND HILTI-SHOT NAILS @16" O.C.
- 8. SW-X DENOTES SHEAR WALL PER SHEAR WALL SCHEDULE
- 9. HDUxx DENOTES SIMPSON STRONG-TIE SHEAR WALL HOLD DOWN HDU4 - HDU4-SDS2.5 W/ (1) 600S162-33 W/ 5/8" DIA x4" TSA THRU SILL
  - TRACK TO CHANNEL HDU6 HDU6-SDS2.5 W/ (2) BACK TO BACK 600S162-33 W/ 5/8" DIA x4" TSA THRU SILL TRACK TO CHANNEL

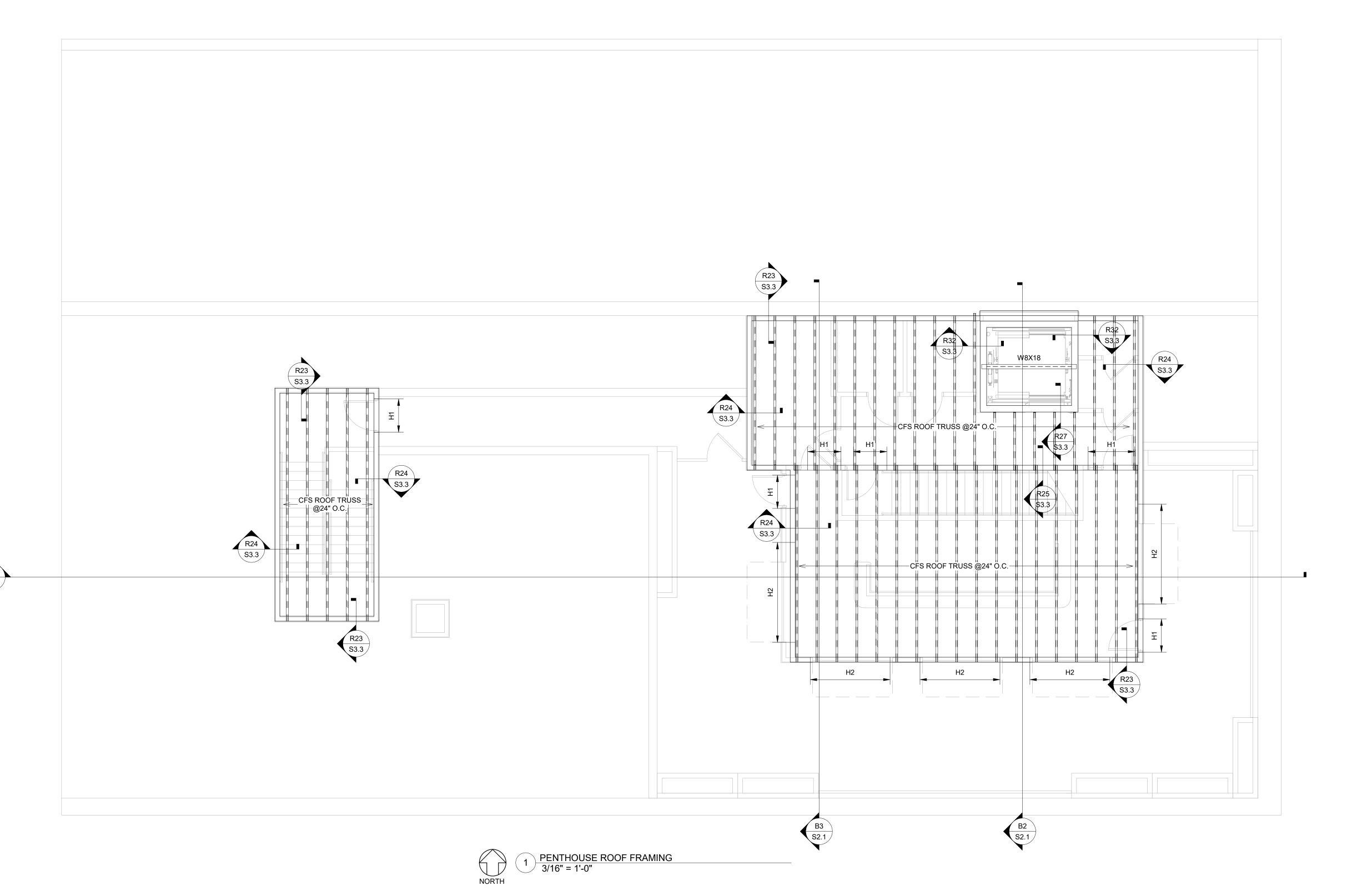




3/20/2025 JOB: SHEET NO.: 24-3421

- PLAN NOTES

  1. FOR GENERAL STRUCTURAL NOTES (GSN) SEE SHEET S0.0
- DIMENSIONS SHOWN HERE APPLY TO STRUCTURAL ELEMENTS ONLY. SEE ARCHITECTURAL FOR ANY DIMENSIONS NOT NOTED HERE.
- 3. ALL EXTERIOR STUD WALLS AND INTERIOR BEARING WALLS TO BE 600S162-33 CFS @ 16" O.C. W/ 33 MIL TRACK AND HILTI-SHOT NAILS @16" O.C.
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- 6. ALL ROOF JOISTS TO BE DESIGNED PER REQUIREMENTS IN STEEL JOIST SECTION OF GENERAL STRUCTURAL NOTES.
- 7. ROOF JOISTS SUPPORTING ROOF TOP EQUIPMENT SHALL BE DESIGNED FOR A 500 LB ADD-LOAD AND A 500 LB BEND-CHECK.
- 8. ROOF TRUSS DESIGN PER GSN LOADS AND REQUIREMENTS
- 9. COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT AND THEIR NOTED SUPPORTS WITH MECHANICAL DRAWINGS. ALL MECHANICAL UNITS MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS, VERIFY ALL MECHANICAL UNITS WITH MECHANICAL DRAWINGS.
- 10. LINTELS PER LINTEL SCHEDULE.
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AYGROUND, BAR

3/20/2025

JOB: 24-3421 SHEET NO.:

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3/20/2025 JOB: 24-3421

SHEET NO.:

**S2.0** 

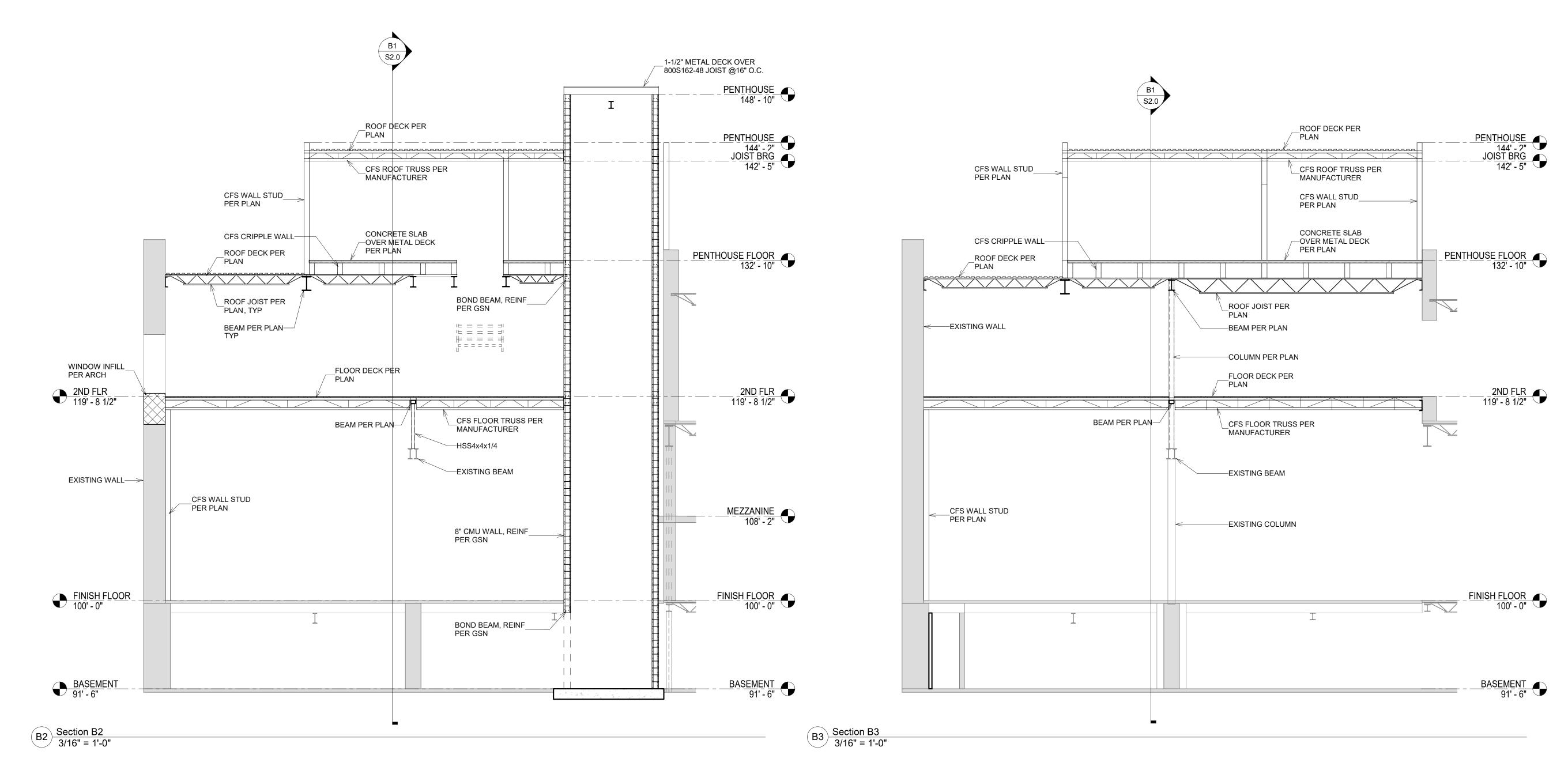
\_ROOF DECK PER \_ROOF DECK PER PLAN CFS WALL STUD\_ PER PLAN \_CFS WALL STUD PER PLAN \_CFS ROOF TRUSS PER MANUFACTURER \_\_CFS ROOF TRUSS PER MANUFACTURER \_CFS WALL STUD\_ CONCRETE SLAB OVER METAL DECK PER PLAN PENTHOUSE FLOOR 132' - 10" PER PLAN JOIST BRG 131' - 8" JOIST BRG 129' - 9" —BEAM PER PLAN ROOF JOIST PER PLAN COLUMN PER PLAN CFS FLOOR TRUSS PER FLOOR DECK PER MANUFACTURER \_\_\_\_<u>2ND FLR</u> 119' - 8 1/2" THE 18 18 18 18 18 18 18 18 18 C22 C16 C17 C18 C19 C21 C7 C10 C11 C13 C8 C14 \_\_EVENLY SPACE, TYP EXISTING BEAM— ± 15' - 11 1/2" ± 16' - 7 1/4" ± 15' - 11 1/2" ± 19'-1" ± 10'-5" MEZZANINE 108' - 2" EXISTING COLUMN EXISTING FLOOR FINISH FLOOR 100' - 0" 

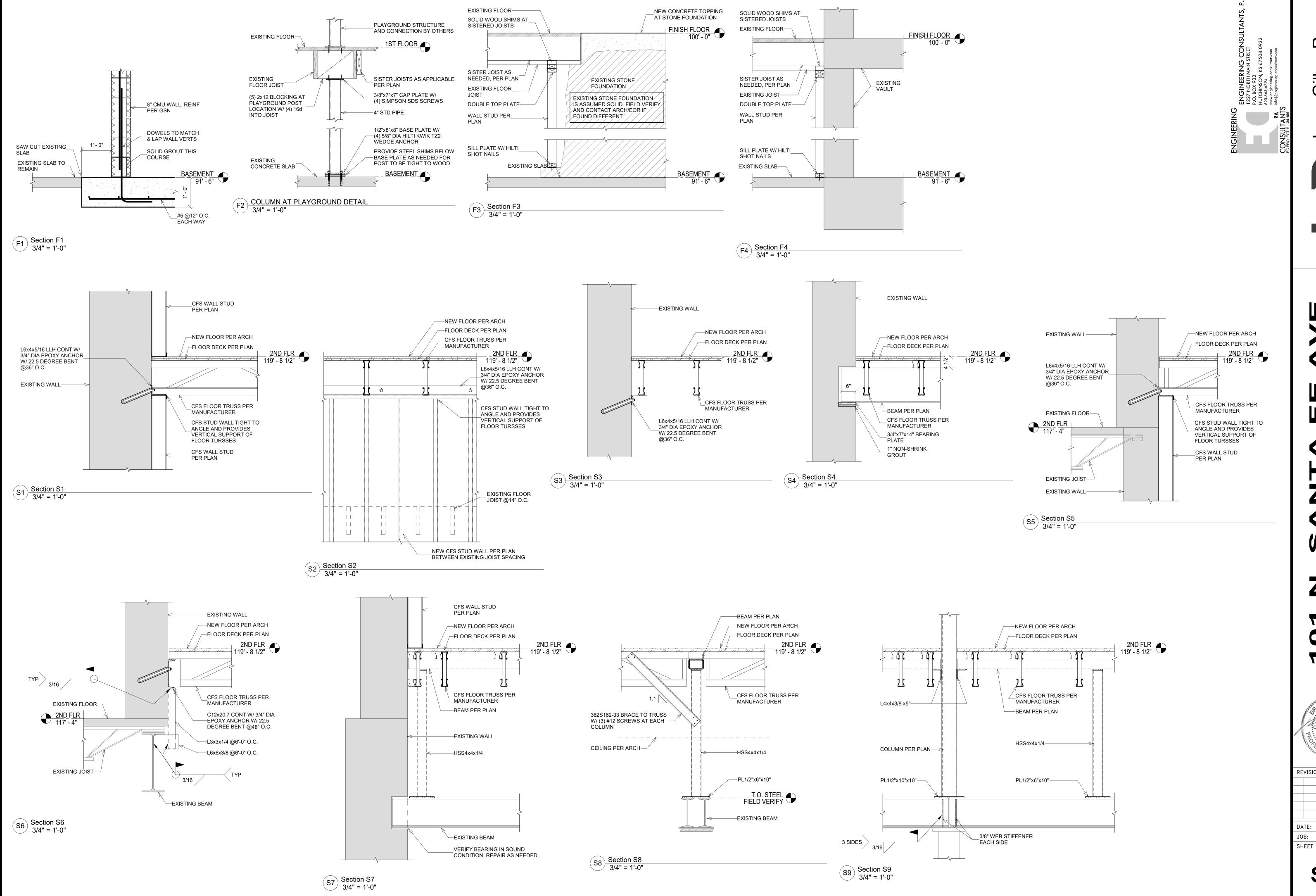
B1 Section B1 3/16" = 1'-0"

3/20/2025 JOB: 24-3421

SHEET NO.:

**S2.1** 



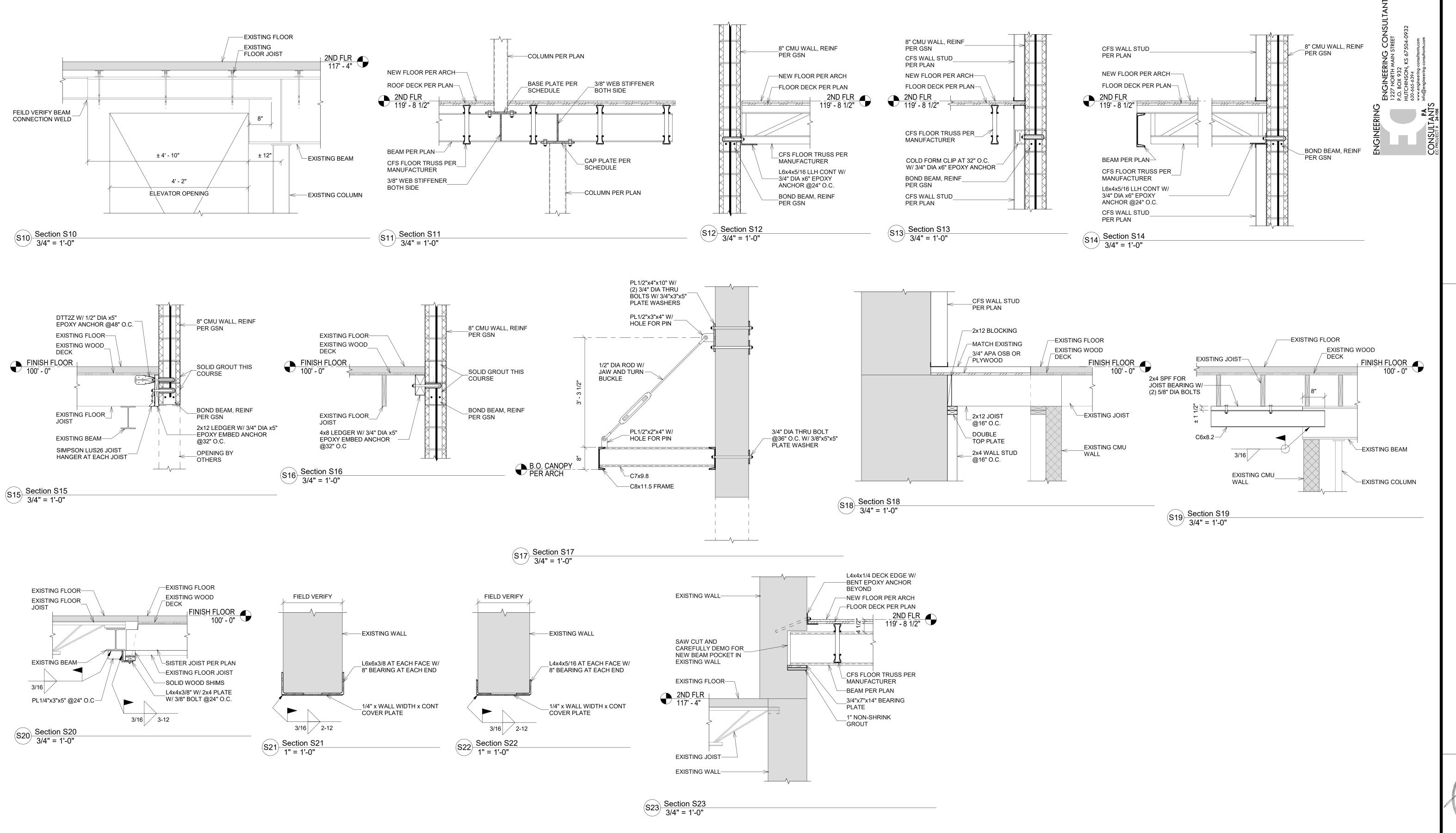


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AYGROUND, BAR MODEL and ADDITIONS: APARTMENTS and

**REVISION:** 3/20/2025 24-3421 SHEET NO.:

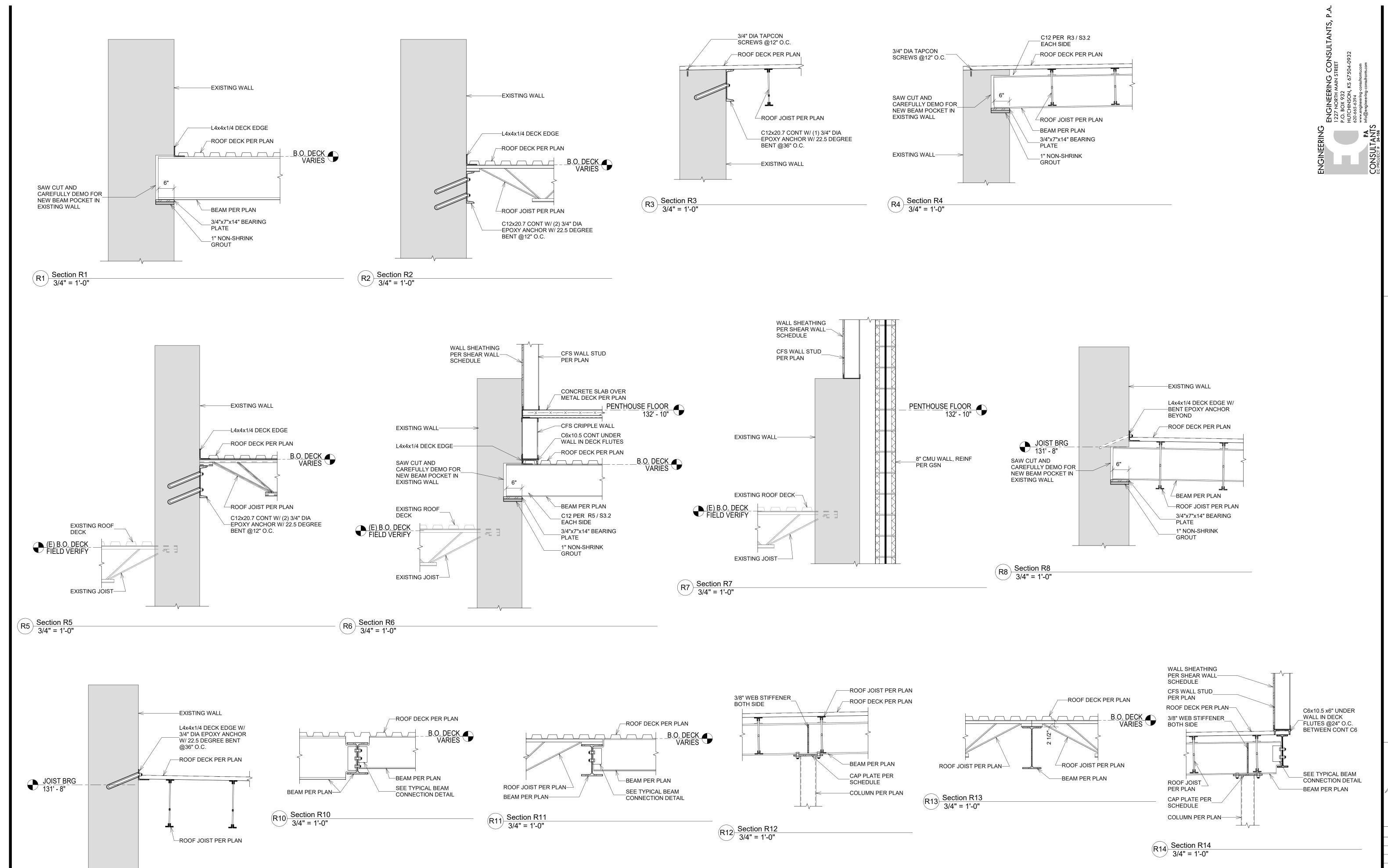
**S3.0** 



YGROUND, and ADDITIONS: MODEL 8

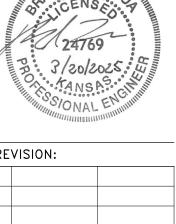
REVISION: 3/20/2025 JOB: 24-3421 SHEET NO.:

**S3.1** 



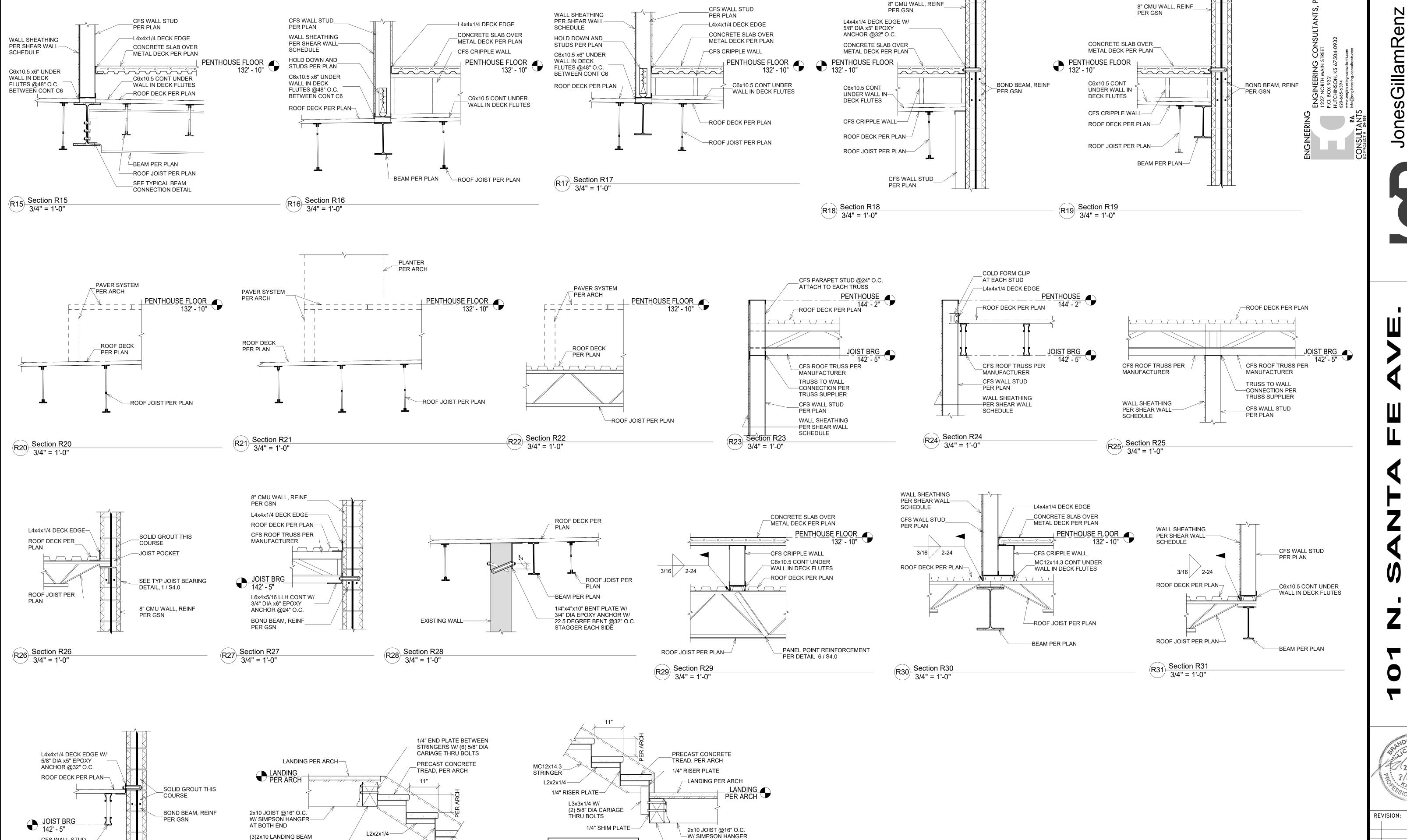
R9 Section R9 3/4" = 1'-0"

YGROUND, REMODEL and ADDITIONS: FAPARTMENTS and R 0



**REVISION:** 3/20/2025 JOB: 24-3421 SHEET NO.:

**S3.2** 



AT BOTH END

(3)2x10 LANDING BEAM

IN WALL EACH END

–BÉARING ON STUD PACK

STAIR NOTES

ST2 TYPICAL STAIR SECTION

3/4" = 1'-0"

FINAL STAIR DETAILING PER

STEEL FABRICATOR SUBJECT

TO APPROVAL OF ARCHITECT

AND ENGINEER OF RECORD.

L2x2x1/4---

1/4" RISER PLATE-

MC12x14.3

STRINGER

(3)2x10 LANDING BEAM

IN WALL EACH END

3/4" = 1'-0"

**BÉARING ON STUD PACK-**

ST1) TYICAL STAIR SECTION

8" CMU WALL, REINF

PER GSN

CFS WALL STUD

PER PLAN

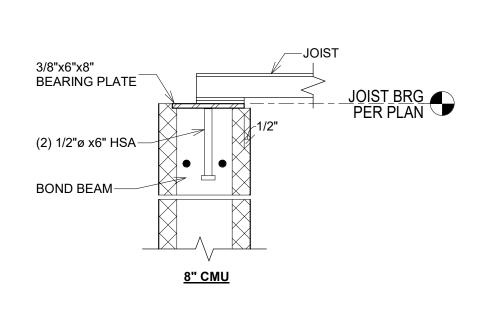
R32 Section R32 3/4" = 1'-0"



ROUND,

and ADDITIONS: AP, MODI

**REVISION:** 3/20/2025 JOB: 24-3421 SHEET NO.: **S3.3** 



1 TYPICAL JOIST BEARING IN CMU 1 1/2" = 1'-0"

BAR ø

BOND BEAM

MATCH BOND BEAM REINF

(2) BENT BARS

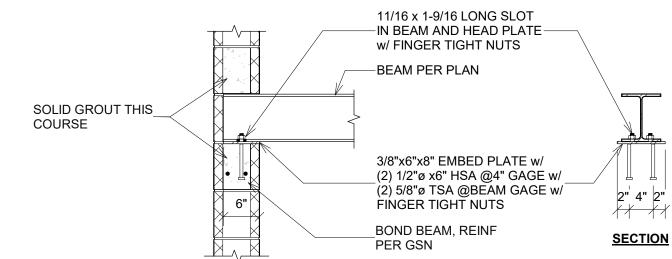
BREAK OUT SIDE OF

**CORNER** 

4 TYPICAL CMU BOND BEAM DETAILS
3/4" = 1'-0"

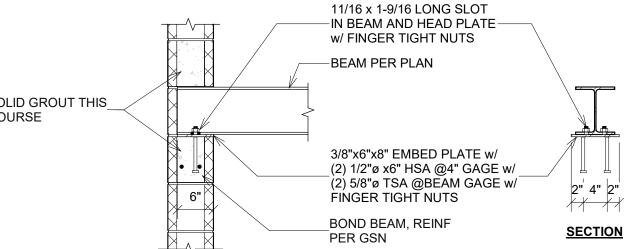
BOND BEAM AS REQUIRED

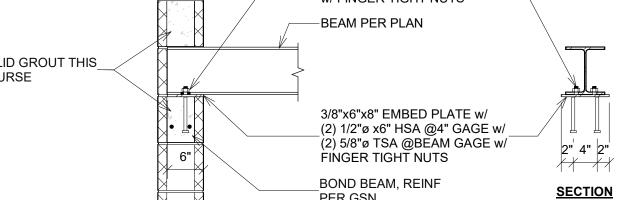
REINF PER GSN



BREAK OUT SIDE OF

BOND BEAM AS REQUIRED





BOND BEAM

REINF PER GSN

2 TYPICAL BEAM BEARING IN CMU
3/4" = 1'-0"

INTERSECTION

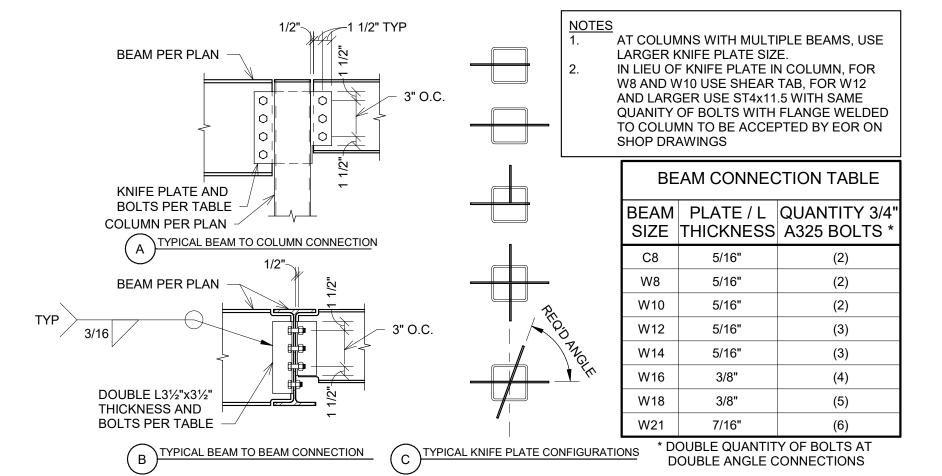
(2) BENT BARS

MATCH BOND BEAM REINF

TYPICAL CMU VERTICAL REINF. DETAIL 3/4" = 1'-0"

\_\_ (2) VERT

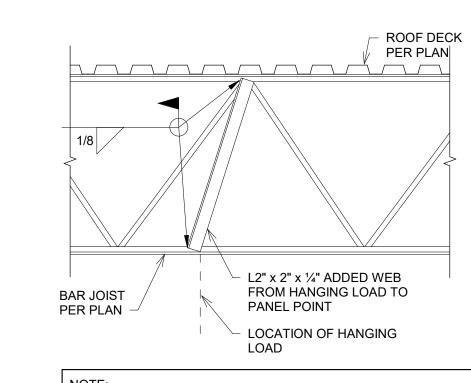
<u>CORNER</u>



HSS4X4X1/4

\_\_\_ (4) VERT

INTERSECTION



ÈÁCH SIDE

NOTE:
USE THIS DETAIL FOR MISCELLANEOS LOADS TO BE SUPPORTED BY BAR JOIST NOT AT A PANEL POINT. IF LOAD IS LARGER THAN 100 LBS CONTACT ENGINEER.

6 MISC HANGING LOAD
3/4" = 1'-0"

N/A

\_ (2) VERT

<u>END</u>

<u>OPENING</u>

			COLUMN	SCHEDULE			
COLUMN MARK	SIZE	BASE PLATE	ANCHOR BOLTS	Base Level	CAP PLATE	CAP PLATE BOLTS	REMARKS
C1	HSS6X6X1/4	1/2"x12"x12"	(4) 3/4"ø EPOXY	EL. 108'-2"	1/2"x6"x12"	(4) 3/4"ø	
C2	HSS6X6X1/4	1/2"x12"x12"	(4) 3/4"ø EPOXY	EL. 108'-2"	1/2"x6"x12"	(4) 3/4"ø	
C3	HSS6X6X1/4	1/2"x12"x12"	(4) 3/4"ø EPOXY	EL. 108'-2"	3/4"x8"x12"	N/A	
C4	HSS5X5X1/4	1/2"x6"x11"	(4) 3/4"ø	EL. 119'-8 1/2"	1/2"x6"x11"	(4) 3/4"ø	
C5	HSS5X5X1/4	1/2"x6"x11"	(4) 3/4"ø	EL. 119'-8 1/2"	1/2"x5"x5"	N/A	
C6	HSS6X6X1/4	1/2"x10"x10"	N/A	EL. 115'-0"	1/2"x6-1/2"x12"	(4) 3/4"ø	
C7	HSS4X4X1/4	1/2"x6"x10"	N/A	EL. 115'-0"	N/A	N/A	
C8	HSS4X4X1/4	1/2"x6"x10"	N/A	EL. 115'-0"	N/A	N/A	
C9	HSS6X6X1/4	1/2"x10"x10"	N/A	EL. 115'-0"	1/2"x6-1/2"x12"	(4) 3/4"ø	
C10	HSS4X4X1/4	1/2"x6"x10"	N/A	EL. 115'-0"	N/A	N/A	
C11	HSS4X4X1/4	1/2"x6"x10"	N/A	EL. 115'-0"	N/A	N/A	
C12	HSS6X6X1/4	1/2"x10"x10"	N/A	EL. 115'-0"	1/4"x6"x6"	N/A	
C13	HSS4X4X1/4	1/2"x6"x10"	N/A	EL. 115'-0"	N/A	N/A	
C14	HSS4X4X1/4	1/2"x6"x10"	N/A	EL. 115'-0"	N/A	N/A	
C15	HSS6X6X1/4	1/2"x10"x10"	N/A	EL. 115'-0"	1/2"x6-1/2"x12"	(4) 3/4"ø	
C16	HSS4X4X1/4	1/2"x6"x10"	N/A	EL. 115'-0"	N/A	N/A	
C17	HSS4X4X1/4	1/2"x6"x10"	N/A	EL. 115'-0"	N/A	N/A	
C18	HSS4X4X1/4	1/2"x6"x10"	N/A	EL. 115'-0"	N/A	N/A	
C19	HSS4X4X1/4	1/2"x6"x10"	N/A	EL. 115'-0"	N/A	N/A	
C20	HSS6X6X1/4	1/2"x10"x10"	N/A	EL. 115'-0"	1/4"x6"x6"	N/A	
C21	HSS4X4X1/4	1/2"x6"x10"	N/A	EL. 115'-0"	N/A	N/A	
						1	

N/A EL. 115'-0"

		SHEAR	WALL SCHEDULE		
SHEATHING THICKNESS	#8 SCREW EDGES	SPACING FIELD	SILL PLATE HILTI SHOT NAIL	HOLD DOWN	NOTES
7/16"	6"	12"	@ 16" O.C.	PER PLAN	1, 2, 3, 4
7/16"	4"	12"	@ 12" O.C.	PER PLAN	1, 2, 3, 4, 5
	THICKNESS 7/16"	THICKNESS EDGES 7/16" 6"	SHEATHING #8 SCREW SPACING THICKNESS EDGES FIELD  7/16" 6" 12"	THICKNESS EDGES FIELD SHOT NAIL  7/16" 6" 12" @ 16" O.C.	SHEATHING #8 SCREW SPACING SILL PLATE HILTI SHOT NAIL HOLD DOWN  7/16" 6" 12" @ 16" O.C. PER PLAN

5 TYPICAL BEAM CONNECTION 3/4" = 1'-0"

OSB OR PLYWOOD SHEATHING APPLIED TO ONE FACE OF STUD WALL. SHEATHING SHALL BE INSTALLED WITH THE LONG DIMENSION HORIZONTAL. SHEATHING TO BE FIRE-RETARDANT. USE SHEAR WALL TYPE SW-1 ON ALL EXTERIOR CFS FRAMED WALLS U.N.O. PROVIDE CONTINUOUS 33 MIL FLAT STRAP "BLOCKING" AT ALL HORIZONTAL SHEATHING JOINTS AND PROVIDE SOLID

BLOCKING BETWEEN THE FIRST TWO END STUDS AT EACH END OF SHEAR WALL SEGMENT. SHEAR WALL BOTTOM TRACK TO BE 43 MIL MINIMUM. SIMPSON HOLD DOWN TO BE PER PLAN PER MANUFATURERS RECOMMENDATION.

7	SHEAR WALL SCHEDULE
' )	12" = 1'-0"

(BACK) - 6" LON ATTAC #10-16 - TRACK SAME 0 (2) #10-	L HEIGHT JAMB STUDS TO BACK) G SECTION OF STUD HED TO JAMB W/ (4) SCREWS HEADER CONNECTION, GAUGE AS HEADER W/ -16 SCREWS @ 16" O.C. PUNCHED STUDS HEADER
SAME OF SCREW  JAMB F 2"x2" 18  W/ SCF  CAP OF TRACK  ATTAC	HEADER CONNECTION, GAUGE AS HEADER W/ VS INTO HEADER AND PER SCHD (A) B GAUGE CLIP ANGLE REWS IN EA LEG PER SCHD (B) PENING SIDE OF JAMB W/ E SAME GAUGE AS HEADER HED W/ (1) #10-16 SCREW D.C. IN EA LEG

1/2"x6"x10"

CFS BOX HEADER SCHEDULE					
HEADER MARK	MAX OPENING WIDTH	HEADER SIZE	#10-16 S	B B	
H1	3' - 6"	6" 18 GA ( 600S162-43 )	(8)	(3)	
H2	10' - 0"	6" 16 GA ( 600S162-54 )	(10)	(3)	
H3	3'-10"	6" 16 GA ( 600S162-54 )	(8)	(3)	
H4	9'-9"	8" 14 GA ( 800S200-68 )	(10)	(3)	

N/A

PROVIDE L7x4x3/8 BRICK LINTEL AT OPENINGS WITH BRICK OR STONE. ANGLE TO BEAR 8" MINIMUM EACH SIDE OF OPENING. ATTACH ANGLE TO CFS BOX HEADER WITH (3) #10 SCREWS @ 16" O.C. PRE-DRILL HOLES FOR SCREWS IN ANGLE.

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AYGROUND, BAR

REMODEL and ADDITIONS: FARTMENTS and R

REVIS	ION:		
DATE: 3/20/2025		3/20/2025	(
JOB:		24-3421	
SHEET	NO.:		L