

STRUCTURAL GENERAL NOTES

I. GENERAL

- A. CONTRACT DOCUMENTS: THIS SET OF STRUCTURAL DRAWINGS IS INCOMPLETE APART FROM THE COMPLETE COLLECTION OF CONSTRUCTION DOCUMENTS FOR THIS PROJECT. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS, ARCHITECTURAL, CIVIL, LANDSCAPE, MECHANICAL, ELECTRICAL, PLUMBING, AND GEOTECHNICAL DOCUMENTS.
- B. NON-COMPLIANCE: ANY WORK THAT IS PERFORMED OR INSTALLED IN NON-COMPLIANCE WITH THE CONTRACT DOCUMENTS SHALL BE SUBJECT TO REMOVAL AT THE CONTRACTOR'S EXPENSE.
- C. DISCREPANCIES: WHERE THERE APPEAR TO BE DISCREPANCIES, DEFICIENCIES, OMISSIONS, CONTRADICTIONS, OR AMBIGUITIES BETWEEN INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS AND ANY OTHER DISCIPLINE, OR WHERE PORTIONS OF THE WORK CANNOT BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ISSUES TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER FOR CLARIFICATION OR RESOLUTION. CLARIFICATIONS, CORRECTIONS, OR COORDINATION MUST BE ISSUED IN WRITING BEFORE THE CONTRACTOR SHALL BE AUTHORIZED TO PROCEED.
- D. COORDINATION: CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS AND VERIFYING EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS, FABRICATION, OR CONSTRUCTION. IF ACTUAL EXISTING CONDITIONS DIFFER FROM THE ASSUMPTIONS SHOWN ON THE STRUCTURAL DRAWINGS, THOSE DISCREPANCIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER FOR RESOLUTION.
- E. DEVIATIONS, OMISSIONS AND SUBSTITUTIONS: THE COMPONENTS OF THIS STRUCTURE ARE DESIGNED TO WORK TOGETHER AS A UNIT. DEVIATIONS, OMISSIONS OR SUBSTITUTIONS FROM THE CONTRACT DOCUMENTS COULD HAVE SERIOUS CONSEQUENCES AND SHALL NOT BE PERMITTED WITHOUT WRITTEN REQUEST TO AND RESPONSE FROM THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY UPON DISCOVERY OF DEVIATIONS OR OMISSIONS AND SHALL OUTLINE THEM IN WRITING TO FACILITATE AN EXPEDIENT REMEDY.
- F. SCALING: THE STRUCTURAL DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATICAL REPRESENTATIONS OF PLANS AND DETAILS FOR THE STRUCTURAL INTENT OF THE DESIGN. IN NO CASE SHOULD THEY BE SCALED FOR DIMENSIONS. THE DIMENSIONS SHOWN SHOULD BE VERIFIED BY THE CONTRACTOR AND COORDINATED WITH THE OTHER DISCIPLINES.
- G. SPECIFICATIONS: THE STRUCTURAL GENERAL NOTES ARE TO BE USED IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS. WHERE DISCREPANCIES OR CONFLICTS OCCUR BETWEEN THE TWO, THE STRICTER APPLICATION SHALL APPLY AS BINDING FOR THE CONTRACT DOCUMENTS.
- H. SHOP DRAWINGS: SUBMIT THREE (3) FULL SIZE PRINTED COPIES OF THE SHOP DRAWINGS. ONE RECORD COPY SHALL BE RETAINED WITH BOTH THE STRUCTURAL ENGINEER AND ARCHITECT AND ONE (1) SHALL BE RETURNED TO THE GENERAL CONTRACTOR FOR COPY AND DISTRIBUTION. CONTRACTOR SHALL SEND ALL SHOP DRAWINGS TO THE ARCHITECT FOR DISTRIBUTION AND PROVIDE IN HIS SCHEDULE FOR TRANSIT AND DISTRIBUTION TIME. STRUCTURAL ENGINEER SHALL REQUIRE A MINIMUM OF (15) "IN OFFICE" WORKING DAYS FOR REVIEW OF SHOP DRAWINGS. ELECTRONIC SHOP DRAWINGS FOR MAJOR STRUCTURAL COMPONENTS WILL NOT BE REVIEWED.
- I. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR FOR ACCURACY OF CONTENT, QUANTITIES, AND DIMENSIONS, AND COORDINATION WITH OTHER TRADES AND SHALL BE STAMPED WITH THE DATE AND REVIEWER'S NAME PRIOR TO SUBMITTAL FOR STRUCTURAL ENGINEER'S REVIEW. SHOP DRAWINGS ARRIVING FOR REVIEW WITHOUT THE CONTRACTOR'S APPROVAL STAMP SHALL BE REJECTED AND RETURNED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ACCURACY OF DIMENSIONS, QUANTITIES, AND COORDINATION OF THE COMBINED TRADES.
- J. USE OF THE STRUCTURAL DRAWINGS FOR SHOP DRAWING BACKGROUNDS WITHOUT PRIOR CONSENT OF THE STRUCTURAL ENGINEER SHALL CONSTITUTE PLAGIARISM, AND SHALL RESULT IN SHOP DRAWINGS BEING REJECTED FOR NON-COMPLIANCE. ELECTRONIC COPIES OF THE STRUCTURAL DRAWINGS MAY BE PURCHASED WITH CERTIFIED FUNDS FOR A CHARGE OF \$125 PER SHEET AND ARE TO BE USED FOR THE SOLE PURPOSE OF SHOP DRAWING BACKGROUNDS. CONTACT THE STRUCTURAL ENGINEER TO ORDER COPIES AND A DISCLAIMER FORM.
- K. MEANS AND METHODS: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, SEQUENCING, AND CONSTRUCTION PROCEDURES AND SHALL AT ALL TIMES COMPLY WITH FEDERAL, STATE, AND LOCAL BUILDING CONSTRUCTION CODES.
- L. BRACING: THIS STRUCTURAL DESIGN IS BASED ON THE PREMISE THAT THE SUPERSTRUCTURE WILL BE TEMPORARILY BRACED AS REQUIRED BY CONTRACTORS MEANS AND METHODS UNTIL IT IS HAS BEEN COMPLETELY ERECTED AND IS ABLE TO FUNCTION AS AN INDEPENDENT STRUCTURE.
- M. SUBSTITUTIONS SHALL NOT BE MADE WITHOUT EXPRESS WRITTEN CONSENT FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION. A SUBSTITUTION SUBMITTED ON SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE ORIGINAL CONTRACT DOCUMENTS UNLESS THE REQUEST TO BE CONSIDERED IS CLOUDED, CIRCLED, HIGHLIGHTED, POINTED TO, OR OTHERWISE MADE SPECIFICALLY CONSPICUOUS AS TO THE FACT THAT IT IS A CHANGE SUBMITTAL REQUEST.
- N. SAFETY: THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL SAFETY LAWS AND IS SOLELY RESPONSIBLE FOR THE SAFETY AND PROTECTION OF PERSONS AND PROPERTY ON OR ADJACENT TO THE PROJECT SITE.
- O. CONSTRUCTION LOADING: THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD APPLIED TO THE STRUCTURE. AT NO TIME SHALL THE CONSTRUCTION LOAD APPLIED TO ANY PORTION OF THE STRUCTURE BE GREATER THAN 50%/%% OF THE DESIGN LIVE LOAD FOR THAT AREA.
- P. CONTRACTOR SHALL SUPPLY AND REGULARLY UPDATE A DETAILED CONSTRUCTION "LOOK AHEAD" SCHEDULE FOR THE STRUCTURAL ENGINEER FOR MANAGEMENT OF SITE REVIEW VISITS.

II. DESIGN CRITERIA

- A. BUILDING DESIGNED IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE WITH 2018 NC BUILDING CODE AMENDMENTS
- B. LIVE LOADS: UNIFORM
PUBLIC SPACES & CORRIDORS SERVING THEM 100 PSF
RESIDENTIAL SPACES & CORRIDORS SERVING THEM 40 PSF
ROOF (UNLESS NOTED) 20 PSF
LIVE LOAD REDUCTION PERFORMED IN ACCORDANCE WITH SECTIONS 4.7 & 4.8 OF ASCE 7-10.
- C. ROOF SNOW LOADS PER CHAPTER 7 OF ASCE 7-16:
GROUND SNOW LOAD, P_g 10.0
FLAT-ROOF SNOW LOAD, P_f 6.3
SNOW LOAD IMPORTANCE FACTOR, I_s 1.0
SNOW EXPOSURE FACTOR, C_e 0.9
THERMAL FACTOR, C_t 1.0
- D. WIND LOADS (MWFRS) PER CHAPTERS 26 & 27 OF ASCE 7-16:
BASIC WIND SPEED (3 SEC GUST) 145 MPH
WIND IMPORTANCE FACTOR, I_w 1.00
WIND EXPOSURE C
INTERNAL PRESSURE COEFFICIENT $+/-0.18$
WIND SHEAR: 152.7 KIPS
BASE SHEAR - PLAN X DIRECTION 737.9 KIPS
BASE SHEAR - PLAN Y DIRECTION
COMPONENTS & CLADDING PERFORMED IN ACCORDANCE WITH CHAPTER 30 OF ASCE 7-16.
- E. SEISMIC DESIGN PER CHAPTERS 11 & 12 OF ASCE 7-16:
SEISMIC RISK CATEGORY I
SEISMIC IMPORTANCE FACTOR $I_E = 1.00$
 MCE_s SHORT PERIOD ACCELERATION $S_s = 0.227 g$
 MCE_s 1-SEC PERIOD ACCELERATION $S_1 = 0.094 g$
GEOTECHNICAL SITE CLASS D
DESIGN ACCELERATION SHORT PERIOD $S_{DS} = 0.242 g$
DESIGN ACCELERATION 1-SEC PERIOD $S_{D1} = 0.150 g$
SEISMIC DESIGN CATEGORY SDC = C
SEISMIC RESPONSE COEFFICIENT $CS = 0.069$
RESPONSE MODIFICATION FACTOR $R = 3.5$
SEISMIC FORCE RESISTING SYSTEM WSP & CMU SHEARWALLS
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE METHOD
BASE SHEAR BOTH X&Y DIRECTIONS 174.4 KIPS

III. FOUNDATIONS

- A. THE GEOTECHNICAL REPORT NO. 22-35103, DATED AUGUST 29, 2024 BY ECS SOUTHEAST, LLC FORMS THE BASIS OF THIS FOUNDATION DESIGN AND IS, BY EXTENSION, A PART OF THE CONTRACT DOCUMENTS FOR THIS PROJECT. CONTRACTOR SHALL FOLLOW THE UNDERCUT AND FILL RECOMMENDATIONS THEREIN FOR THE INSTALLATION OF ALL FOUNDATION, RETAINING, AND SLAB ELEMENTS.
- B. SHALLOW FOUNDATIONS SHALL BEAR ON UNDISTURBED SOIL OR A 2" MUD MAT OF LEAN CONCRETE ($F'_c = 2000$ PSI). THE ALLOWABLE BEARING CAPACITY OF 3000 PSF SHALL BE VERIFIED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER.
- C. ENGINEERED FILL SHALL BE SELECTED, GRADED, AND COMPACTED ACCORDING TO THE GEOTECHNICAL REPORT.
- D. SOILS TESTING WILL BE REQUIRED. THE GEOTECHNICAL ENGINEER SHALL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF SOIL BEARING STRATA. TESTING SHALL BE PERFORMED BY CERTIFIED TECHNICIANS UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER.
1. SOILS TO RECEIVE SLABS ON GRADE SHALL BE PROOF ROLLED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND SHALL BE TESTED AND APPROVED PRIOR TO CONCRETE PLACEMENT.
2. FOUNDATION BEARING STRATA SHALL BE INSPECTED AND APPROVED PRIOR TO CONCRETE PLACEMENT
- E. UNACCEPTABLE SOILS SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OPTION ONE.
- F. FOUNDATION BASEMENT WALLS SHALL NOT RECEIVE BACKFILL UNTIL BOTH THE TOP AND BOTTOM FLOOR SLABS HAVE BEEN INSTALLED TO BRACE THEM. BASEMENT AND RETAINING WALLS SHALL HAVE A MINIMUM OF 2'-0" OF #67 STONE BEHIND THE WALL AND A POSITIVE DRAINAGE SYSTEM CONNECTED TO SITE DRAINAGE TO ELIMINATE HYDROSTATIC PRESSURE. DESIGN PRESSURES FOR FOUNDATION WALLS ON THIS PROJECT ARE AS FOLLOWS:

WEIGHT OF THE SOIL	120 PCF
ACTIVE PRESSURE COEFFICIENT (0.33)	40 PCF
AT REST PRESSURE COEFFICIENT (0.5)	60 PCF
PASSIVE PRESSURE COEFFICIENT (3.0)	360 PCF
FRICTION COEFFICIENT	.35

IV. CONCRETE

- A. DESIGN AND INSTALLATION OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-14
- B. DESIGN OF FORMWORK, SHORING, AND RE-SHORING FOR CONCRETE FRAMING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- C. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES, WASHES, RIGLETS, DRIPS, DOVETAILS, OPENINGS, SLAB DEPRESSIONS, BRICK LEDGE ELEVATIONS, AND MISCELLANEOUS EMBEDDED ITEMS.
- D. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR UNDERGROUND UTILITIES, DRAIN LINES, DUCT BUSES, SLEEVES, OUTLET BOXES, CONDUIT, AND OTHER COORDINATION ITEMS.
- E. CONCRETE SHALL HAVE THE MINIMUM 28-DAY STRENGTH, WEIGHT, AND MAXIMUM WATER-CEMENT RATIOS LISTED BELOW (UNO) UNLESS NOTED OTHERWISE ON THE DRAWINGS.

DESCRIPTION	STRENGTH FC	WEIGHT
FOOTINGS	3000 PSI	145 PCF
SLABS ON GRADE	3000 PSI	145 PCF
ALL OTHER CONCRETE	4000 PSI	145 PCF
- F. CONCRETE MIX DESIGNS SHALL BE PREPARED AND SUBMITTED 30 DAYS PRIOR TO START OF CONCRETE WORK AND SHALL COMPLY WITH ACI 301, CHAPTER 3. CEMENT SHALL CONFORM TO ASTM C150-TYPE I. NORMAL WEIGHT AGGREGATE SHALL CONFORM TO ASTM C33 AND LIGHT WEIGHT AGGREGATE SHALL CONFORM TO ASTM C330. ALL MIX DESIGNS SHALL CONTAIN WATER REDUCING ADMIXTURES, AND MIX DESIGN INGREDIENTS SHALL BE CERTIFIED TO CONTAIN NO CALCIUM CHLORIDE IONS.
- G. FLY ASH SHALL BE LIMITED TO 25% OF CEMENTICIOUS MATERIAL & CONFORM TO ASTM C595-IP.
- H. ALL CONCRETE EXPOSED TO WEATHER SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.5 AND SHALL BE AIR ENTRAINED IN ACCORDANCE WITH ACI 301.
- I. ALL PUMPED CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.5 AND CONTAIN HIGH RANGE WATER REDUCING ADMIXTURES.
- J. HOT AND COLD WEATHER CONCRETING SHALL BE PERFORMED IN ACCORDANCE WITH ACI 305 AND 306. SPECIFIED ACCELERATING ADMIXTURES MAY BE USED FOR CONCRETE EXPOSED TO TEMPERATURES BELOW 40 DEGREES.
- K. LIQUID CURING COMPOUND SHALL BE PLACED ON ALL CONCRETE FLATWORK AND WALLS WITHIN 2 HOURS AFTER FINISHING UNLESS OTHERWISE NOTED. FLOORS RECEIVING TILE OR LIQUID FLOOR HARDENER SHALL BE WET CURED OR TREATED WITH SPECIFIED DISSIPATING LIQUID MEMBRANE CURING COMPOUND ACCORDING TO MANUFACTURER INSTALLATION RECOMMENDATIONS.
- L. CONSTRUCTION AND CONTROL JOINTS SHALL BE LOCATED AS NOTED ON THE DRAWINGS WITH A MAXIMUM SPACING OF 20'-0" FOR WALLS AND 16'-0" FOR SLABS ON GRADE. CONSTRUCTION JOINTS REQUIRED BY CONSTRUCTION LOGISTICS OR POOR SCHEDULES BUT NOT SHOWN ON THE DRAWINGS WILL LIKELY REQUIRE ADDITIONAL REINFORCING AND MUST BE COORDINATED WITH AND REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- M. ANCHOR BOLTS, BASE PLATES, LEDGE ANGLES, AND ALL OTHER STEEL EXPOSED TO EARTH SHALL BE COVERED WITH A MINIMUM 3" OF CONCRETE COVER.
- N. NON-SHRINK GROUT SHALL CONFORM TO ASTM C1017.

V. STRUCTURAL MASONRY

- A. MASONRY SHOWN ON STRUCTURAL DRAWINGS DEFINES THE EXTENT OF MASONRY REQUIRED TO SUPPORT STRUCTURAL MEMBERS SUCH AS FLOORS AND ROOFS, OR LATERAL WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING WALLS AND OPENING LOCATIONS.
- B. DESIGN & INSTALLATION OF ALL STRUCTURAL MASONRY SHALL BE IN ACCORDANCE WITH ACI 530-13 AND ACI 530.1-13 WITH RELATIVE COMMENTARY.
- C. CONCRETE MASONRY UNITS (CMU):
1. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C 90-13 GRADE N-II WITH A NET AREA UNIT STRENGTH NO LESS THAN 2000 PSI AND UNIT WEIGHT NOT EXCEEDING 95 PCF.
2. MORTAR SHALL BE TYPE S, CONFORM TO ASTM C 270-12a, AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 1900 PSI.
3. DESIGN COMPRESSIVE STRENGTH OF CMU WALLS (F'_m) = 1500 PSI.
- D. SUBMITTALS: CONTRACTOR SHALL SUBMIT TEST REPORTS ON MASONRY, MORTAR, & GROUT. INCLUDE UNIT WEIGHT, COMPRESSIVE STRENGTH, ABSORPTION, VOLUME, AND SHRINKAGE.
- E. MASONRY GROUT SHALL CONFORM TO ASTM C 476-04 AND THE REQUIREMENTS FOR CONCRETE IN SECTION IV OF THE STRUCTURAL GENERAL NOTES. MASONRY GROUT SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND COMPLY WITH THE FOLLOWING:
1. BOND BEAMS SHALL BE FREE FROM DEBRIS, REINFORCED, AND FILLED WITH GROUT IN ONE CONTINUOUS POUR. MORTAR FILL IS NOT PERMITTED.
2. GROUT ALL MASONRY CELLS SOLID BELOW GRADE. MORTAR FILL IS NOT PERMITTED.
3. ALL REINFORCED MASONRY WALL CELLS AND CAVITIES SHALL BE GROUTED FULL HEIGHT. UNREINFORCED CELLS AND CAVITIES SHALL BE GROUTED FULL HEIGHT WHERE INDICATED UNLESS NOTED OTHERWISE. MORTAR FILL IS NOT PERMITTED.
4. VERTICAL GROUTING SHALL BE LOW LIFT, SHALL NOT EXCEED 6'-0" LIFTS, AND SHALL BE STOPPED 2" BELOW COURSING TO FORM A KEY. HIGH LIFT GROUTING IS NOT PERMITTED.
- F. MASONRY CONTRACTOR SHALL COORDINATE AND INSTALL ITEMS REQUIRED TO BE EMBEDDED OR BUILT INTO THE MASONRY WITH ALL OTHER TRADES. ELECTRICAL CONDUIT OR EQUIPMENT FROM OTHER TRADES SHALL NOT OCCUR IN REINFORCED OR GROUTED CELLS.
- G. HORIZONTAL BOND BEAMS SHALL BE LOCATED AT A MAXIMUM OF 4'-0" VERTICALLY FOR THE ENTIRE HEIGHT OF CMU WALLS NOT BRACED BY INTERIOR DIAPHRAGMS.

VII. CONCRETE & MASONRY REINFORCEMENT

- A. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND INSTALLED ACCORDING TO ACI 318-14, SP-46(04), AND CRSI MSP-2-01.
- B. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED ON THE DRAWINGS. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A184 OR A185.
- C. MINIMUM CONCRETE COVER AND DEVELOPMENT LENGTHS SHALL BE IN ACCORDANCE WITH ACI 318-14, CHAPTERS 20 AND 25 RESPECTIVELY. ALL TENSION LAP SPLICES SHALL BE DETAILED AS CLASS B UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- D. REINFORCING TERMINATING AT TOPS OF COLUMNS, PIERS, AND PILASTERS SHALL BE HOOKED. REINFORCING TERMINATING AT CORNERS OR INTERSECTIONS OF WALLS SHALL EITHER BE HOOKED OR FULLY DEVELOPED BEYOND THE INSIDE EDGE OF THE BOUNDARY ELEMENT.
- E. VERTICAL BARS AND DOWELS SHALL HAVE A MAXIMUM SLOPE RATIO OF 1 TO 6. DOWELS REQUIRING GREATER SLOPES FOR FIT-UP SHALL BE EPOXY REPOSITIONED.
- F. MASONRY REINFORCEMENT SHALL BE TENSION LAPPED (CLASS B) UNLESS NOTED OTHERWISE.
1. VERTICAL MASONRY REINFORCING BARS AND DOWELS SHALL HAVE A MINIMUM CLEARANCE FROM MASONRY CELL WALLS OF 3/4" AND SHALL BE HELD INTO POSITION AT THE BOTTOM AND AT 4'-0" LIFTS WITH BAR POSITIONER ACCESSORIES. SUBMIT REBAR ACCESSORIES FOR ENGINEER'S REVIEW.
2. HORIZONTAL BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.
3. HORIZONTAL JOINT REINFORCING SHALL BE LAPPED 6" AT SPLICES, CORNERS, AND WALL INTERSECTIONS.
- G. WELDED WIRE MESH SHALL BE LAPPED 1'-0" AT SPLICES.

X. STRUCTURAL STEEL

- A. STRUCTURAL STEEL SHALL BE OF THE GRADES LISTED BELOW UNLESS OTHERWISE NOTED ON THE DRAWINGS:
1. WIDE FLANGE SHAPES - ASTM A992 GRADE 50
2. OTHER ROLLED SHAPES - ASTM A36
3. HSS TUBE SHAPES - A500 GRADE B, Fy=46 KSI
4. HSS PIPE SHAPES - ASTM A53, TYPE S, Fy=35 KSI
5. PLATES AND BARS - ASTM A36
6. MISCELLANEOUS STEEL - ASTM A36
7. ANCHOR BOLTS - ASTM A36, F1554 (UNO)
- B. STRUCTURAL STEEL SHALL BE DESIGNED, DETAILED, AND FABRICATED ACCORDING TO AISC 360-16 CODE - LRFD, UNLESS OTHERWISE NOTED.
- C. FABRICATOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND DETAILING OF STEEL CONNECTIONS AND SHALL RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED
- D. STEEL BEAM SHEAR CONNECTIONS SHALL BE DESIGNED FOR 1/2 UDL UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- E. STRUCTURAL STEEL BEAMS SHALL BE FABRICATED WITH MILL CAMBERS UP.
- F. SHOP DRAWINGS SHALL BE SUBMITTED ACCORDING TO SECTION I-H OF THE STRUCTURAL GENERAL NOTES.
- G. SPLICING OF STRUCTURAL STEEL MEMBERS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY NOTED AND DETAILED ON THE CONTRACT DOCUMENTS.
- H. MEMBERS NOTED "CONTINUOUS" SHALL BE FULLY BUTT WELDED AT SPLICE POINT.
- J. SIZE OR LOCATION CHANGES OF STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN CONSENT FROM THE STRUCTURAL ENGINEER OF RECORD.
- K. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1-04 STRUCTURAL WELDING CODE - STEEL.
- L. MINIMUM PLATE THICKNESS SHALL BE 3/8" UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
- M. ADHESIVE ANCHORS SHALL BE HILTI RE 500 OR APPROVED EQUAL UNLESS NOTED OTHERWISE.
- N. ALL EXPOSED STEEL SHALL BE GALVANIZED G90 UNLESS NOTED OTHERWISE.

XI. MISCELLANEOUS STEEL & STAIRS (PERFORMANCE GUIDELINES)

- A. FABRICATOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND DETAILING OF STEEL CONNECTIONS, MISC STEEL CONNECTIONS, AND STAIR FRAMING, AND SHALL RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE ENGINEER SHALL SEAL AND SIGN BOTH CALCULATIONS AND SHOP DRAWINGS. SIZES AND CONNECTIONS SHOWN ON THE DRAWINGS ARE SCHEMATIC AND ARE INTENDED ONLY TO SHOW THE RELATIONSHIP OF THE MEMBERS AND INFORMATION FOR PRICING/BIDDING.

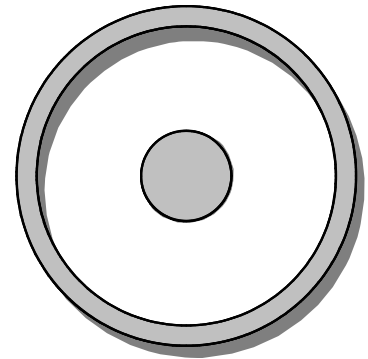
XV. ROUGH CARPENTRY

- A. SOLID SAWN WOOD MEMBERS SHALL CLASSIFIED PER THE NDS DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION AND SHALL BE GRADED IN ACCORDANCE WITH THE AMERICAN LUMBER STANDARDS COMMITTEE. PROVIDE DRESSED LUMBER S4S WITH A MAX MOISTURE CONTENT OF 19% UNLESS OTHERWISE NOTED. PROVIDE FRAMING MEMBERS OF THE SPECIES AND GRADES LISTED BELOW:
JOISTS AND RAFTERS - SOUTHERN YELLOW PINE NO. 1
GIRDERS, AND BEAMS - SOUTHERN YELLOW PINE NO. 1
VERTICAL WALL STUDS - SPRUCE PINE FUR NO. 2
TOP AND BOTTOM WALL PLATES - SOUTHERN YELLOW PINE NO. 2
TIMBER COLUMNS - SOUTHERN YELLOW PINE NO. 2
BUILT-UP COLUMNS - SOUTHERN YELLOW PINE NO. 2
- B. BUILT-UP COLUMNS SHALL BE FASTENED ACCORDING TO THE FOLLOWING:
USE SDW22458 SCREWS AT 6" OC STAGGERED ADJACENT
SCREWS ARE DRIVEN FROM OPPOSITE SIDES OF COLUMN
HOLD MINIMUM 4" END DISTANCE AND 1 1/2" SIDE CLEARANCE
- C. LAMINATED VENEER LUMBER BEAMS (LVL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
MODULUS OF ELASTICITY 2,000,000 PSI
FLEXURAL STRESS 3,100 PSI
HORIZONTAL SHEAR PARALLEL TO GRAIN 265 PSI
- D. PARALLEL STRAND LUMBER BEAMS (LSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
SHEAR MODULUS OF ELASTICITY 125,000 PSI
MODULUS OF ELASTICITY 1,800,000 PSI
FLEXURAL STRESS 2,400 PSI
HORIZONTAL SHEAR PARALLEL TO GRAIN 270 PSI
- E. LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH EARTH, CONCRETE OR MASONRY AND FRAMING LESS THAN 18" ABOVE THE GROUND SHALL BE TREATED IN ACCORDANCE WITH AWPA STANDARD C-2 AND SHALL BE FASTENED WITH HOT-DIPPED GALVANIZED FASTENERS COMPLYING WITH ASTM A 153.
- F. TOP PLATES SHALL BE INSTALLED WITH LAPPING END JOINTS AND OFFSET SPLICES NO CLOSER THAN 48". END JOINTS IN DOUBLE TOP PLATES SHALL BE OFFSET AT LEAST 48" AND SHALL BE NAILED WITH NOT LESS THAN (8) 16d FACE NAILS ON EACH SIDE OF JOINT.
- G. PROVIDE METAL FRAMING ANCHORS BY SIMPSON STRONG-TIE COMPANY OR APPROVED EQUAL. INTERIOR FRAMING: HOT-DIPPED ZINC COATED SHEET STEEL G90 ASTM A 653 EXTERIOR FRAMING: STAINLESS STEEL SHEET STEEL ASTM A 666, TYPE 304 WITH SS ANCHORS
- H. UNDER NON-LOAD BEARING WALLS PARALLEL TO FRAMING, INSTALL DOUBLE JOISTS SEPARATED BY SOLID BLOCKING EQUAL TO WIDTH OF WALL ABOVE. PROVIDE CONTINUOUS BLOCKING UNDER WALLS PERPENDICULAR TO FRAMING. PROVIDE TRIPLE STUDS UNDER PARTITIONS RECEIVING CERAMIC TILE OR HUNG FIXTURES.
- I. FRAMING SHALL COMPLY WITH AFPA DETAILS FOR CONVENTIONAL WOOD FRAME CONSTRUCTION UNLESS OTHERWISE NOTED. STRUCTURAL MEMBERS SHALL NOT BE SPLICED BETWEEN SUPPORTS UNLESS NOTED SPECIFICALLY ON DRAWINGS. STUDS SHALL BE SEPARATED FROM TOP PLATE. STUDS INTERRUPTED BY BEAMS OR HEADERS SHALL BE SISTERED TO CONTINUOUS STUDS IN ACCORDANCE WITH THE DESIGN DOCUMENTS.
- J. FRAMING MEMBERS SHALL BE SECURELY FASTENED TOGETHER AS INDICATED IN TABLE 2304.10.1 OF THE BUILDING CODE. FASTENERS SHALL BE PROVIDED IN ACCORDANCE WITH THE FOLLOWING:
POWER DRIVEN FASTENERS: NES ESR-1539
NAILS, BRADS, AND STAPLES: ASTM F 1667
WOOD SCREWS: ASME B18.6.1
LAG BOLTS: ASME B18.2.1
STEEL BOLTS: ASTM A307
NUTS & WASHERS: ASTM A 563
- K. ALL BEAMS, TRUSS GIRDERS, AND OTHER CONTRATED LOAD REACTIONS SHALL BE SUPPORTED FROM LOAD POINT TO FOUNDATION WITH CONTINUOUS VERTICAL FRAMING
- L. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL TIMBER REQUIREMENTS WHERE APPLICABLE.

XVI. METAL PLATED WOOD TRUSSES (PERFORMANCE GUIDELINES)

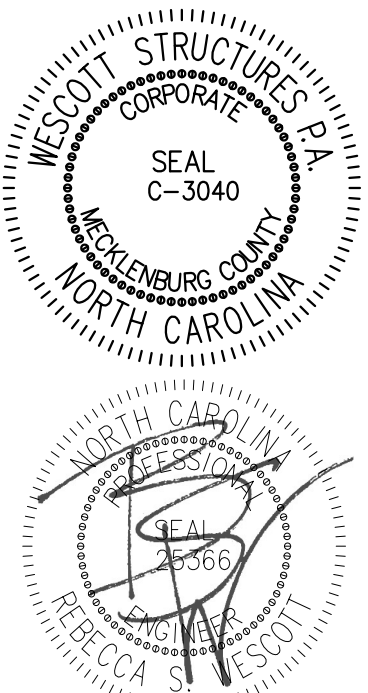
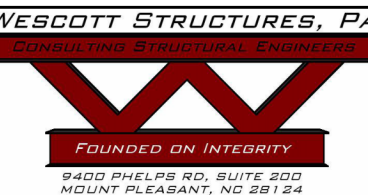
- A. TRUSS FABRICATOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND DETAILING OF ALL WOOD TRUSSES AND SHALL RETAIN A PROFESSIONAL ENGINEER, REGISTERED & INSURED IN THE STATE OF THE PROJECT TO DESIGN AND SEAL BOTH CALCULATIONS AND TRUSS LAYOUTS. SIZES AND CONNECTIONS SHOWN ON THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED ONLY TO SHOW THE RELATIONSHIP OF THE MEMBERS AND INFORMATION FOR PRICING/BIDDING.
- B. THE TRUSS ENGINEER SHALL SUPPLY COMPLETE, NON-TRUNCATED DESIGNS FOR ALL TRUSS GIRDERS AND SPECIAL LOADING CONDITIONS.
- C. DESIGN OF TRUSS MEMBERS SHALL BE IN ACCORDANCE WITH THE STATE BUILDING CODE OF THE PROJECT, AND ANSITP 1 NATIONAL STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION.
- D. TRUSSES SHALL BE DESIGNED FOR THE REQUIREMENTS SHOWN ON THESE STRUCTURAL DWGS. AND SPECIFICATIONS UNDER THE RESTRICTIONS OF THE FOLLOWING SERVICEABILITY RESTRAINTS:
FLOOR TRUSSES: VERTICAL DEFLECTION SHALL BE LIMITED TO L/480.
ROOF TRUSSES: VERTICAL DEFLECTION SHALL BE LIMITED TO L/240.
HORIZONTAL MOVEMENT AT SUPPORTS SHALL BE LIMITED TO 1/2".
- E. TRUSS ENGINEER SHALL DESIGN TRUSSES FOR 24" TRIBUTARY WIDTH PLUS EVERY ADDITIONAL APPLICABLE LOAD, DESIGN TRUSS-TO-TRUSS CONNECTIONS, AND DETAIL APPLICABLE METAL HANGERS ON THE SHOP DRAWINGS.
- F. TRUSSES SHALL BE MANUFACTURED WITH DIMENSION LUMBER GRADED IN ACCORDANCE WITH THE AMERICAN LUMBER STANDARDS COMMITTEE AND HAVE THE FOLLOWING MINIMUM PROPERTIES:
TRUSS CHORDS - SOUTHERN YELLOW PINE NO. 2 TRUSS
VERTICALS - SOUTHERN YELLOW PINE NO. 3 TRUSS
DIAGONALS - SOUTHERN YELLOW PINE NO. 3
- G. LADDER TRUSSES SHALL BE FABRICATED WITH DOUBLE AND TRIPLE VERTICALS TO MATCH THE WALL SCHEDULE STUD REQUIREMENTS OF THE LEVEL BELOW THEM. ALTERNATIVELY, TRUSS ENGINEER MAY DESIGN AND PRODUCE THE LADDER TRUSS FOR THE SPECIFIC LOADS THEY MUST SUSTAIN AND CLEARLY INDICATE THE DESIGN WALL CAPACITY AS A NOTE ON THE TRUSS SUBMITTALS.
- H. PROVIDE METAL CONNECTOR PLATES IN ACCORDANCE WITH TPI 1. PLATES SHALL BE HOT-DIPPED GALVANIZED SHEET STEEL (G60) WITH A MINIMUM THICKNESS OF 0.036".
- J. TRUSS MANUFACTURER SHALL PROVIDE BRACING INFORMATION ON THE SHOP DRAWINGS IN ACCORDANCE WITH TPI BCSI BUILDING COMPONENT SAFETY INFORMATION GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES.
- K. INSTALL TRUSSES AT A MAXIMUM OF 24" OC SPACING AFTER SUPPORTING STRUCTURE IS IN PLACE AND PROPERLY BRACED. TRUSSES SHALL BE PLUMB, SQUARE, AND INSTALLED WITHIN TPI TOLERANCES. SECURELY FASTEN TRUSS ACCESSORIES TO EACH TRUSS AND SUPPORTING STRUCTURE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS USING ONE FASTENER PER EACH FASTENER HOLE.
- L. DO NOT CUT OR REMOVE TRUSS MEMBERS. DAMAGED TRUSSES SHALL BE REPLACED OR REPAIRED ACCORDING TO TRUSS ENGINEER'S SEALED INSTRUCTIONS.
- XVII. WOOD STRUCTURAL SHEATHING
- A. WOOD STRUCTURAL SHEATHING SHALL SHALL CONFORM TO THE US DEPARTMENT OF STANDARDS MANUFACTURING AND PERFORMANCE STANDARDS PS 1 AND PS 2. AND COMPLY WITH "CODE PLUS" PROVISIONS OF APA FORM NO E30K "APA DESIGN/CONSTRUCTION GUIDE: RESIDENTIAL & COMMERCIAL."
- B. WOOD STRUCTURAL SHEATHING SHALL BE ATTACHED TO FRAMING IN COMPLIANCE WITH THE PROJECT BUILDING CODE AND THE REQUIREMENTS OF THESE DRAWINGS.
- C. INTERIOR WALLS SHALL BE SHEATHED WITH PAPER SURFACED GYPSUM BOARD CONFORMING TO ASTM C 1396. ATTACH GYP BOARD TO WALLS WITH GALVANIZED WALLBOARD FASTENERS MINIMUM 0.120" x 1 3/4" LONG WITH 3/8" HEAD UNLESS NOTED OTHERWISE.
- D. ADHESIVES FOR FIELD GLUE-DOWN APPLICATIONS, WHEN SPECIFIED, SHALL COMPLY WITH ASTM D 3498 AND BE SELECTIVELY MATCHED TO THE PANEL/FRAMING APPLICATION.

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revisions:

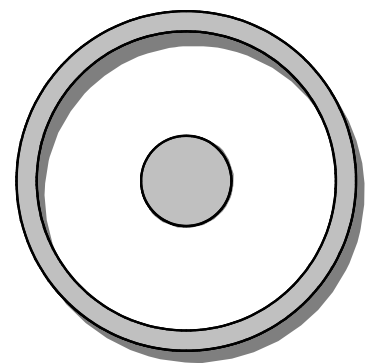
Revision	Date	Description

drawn by:
CADD

checked by:
RSW
project no:
WesS #25.006

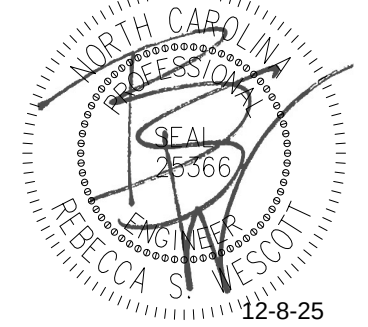
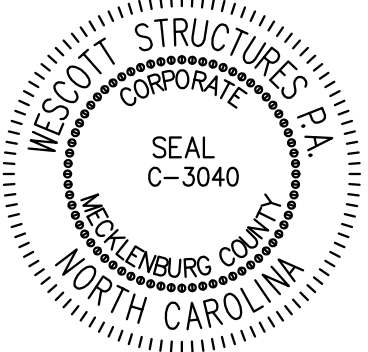
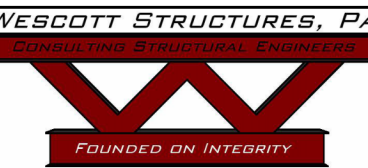
STRUCTURAL
GENERAL NOTES

S-100



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SCHEDULES

S-101

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DROP HEADER SCHEDULE (SYP NO. 2 - U NO)			
TAG	DEPTH	WIDTH	JACKS +KINGS
H8-2-1	(2) 2x8 + 1/2" BLOCKING	3 1/2"	1 +1 EACH END
H8-3-1	(3) 2x8 + 1/2" BLOCKING	5 1/2"	1 +1 EACH END
H8-3-2	(3) 2x8 + 1/2" BLOCKING	5 1/2"	2 +2 EACH END
H10-2-1	(2) 2x10 + 1/2" BLOCKING	3 1/2"	1 +1 EACH END
H10-3-1	(3) 2x10 + 1/2" BLOCKING	5 1/2"	1 +1 EACH END
H10-3-2	(3) 2x10 + 1/2" BLOCKING	5 1/2"	2 +2 EACH END
H12-2-2	(2) 2x12 + 1/2" BLOCKING	3 1/2"	2 +2 EACH END
H12-3-2	(3) 2x12 + 1/2" BLOCKING	5 1/2"	2 +2 EACH END
H12-3-3	(3) 2x12 + 1/2" BLOCKING	5 1/2"	3 +3 EACH END
LVL12-3-3	(3) 1 3/4"x11 7/8" 2.0E	5 1/4"	3 +3 EACH END
NOTES: 1) HEADERS SHOWN ON PLANS ARE LOCATED ABOVE FLOOR FRAMING 2) BLOCK BEAMS & HEADERS WITH 1/2" PLYWOOD CONTINUOUS 3) NUMBER OF JACK/KINGS STUDS SHALL NOT BE LESS THAN NUMBER OF WALL STUDS FOR EACH LEVEL PER WALL SCHEDULE			

WOOD BEAM SCHEDULE (SYP NO. 1)			
TAG	DEPTH	WIDTH	BEARING LENGTH
B-1	(2) 2x8	3 1/2"	3" ENDS & 6" INTERMEDIATE
B-2	(2) 2x10	3 1/2"	3" ENDS & 6" INTERMEDIATE
B-3	(3) 2x10	5 1/2"	4" ENDS & 8" INTERMEDIATE
B-4	(2) 2x12	3 1/2"	3" ENDS & 6" INTERMEDIATE
B-5	(3) 2x12	5 1/2"	4" ENDS & 8" INTERMEDIATE
B-6	3.5" x 11 7/8" 2.0E LVL	3 1/2"	3" ENDS & 7" INTERMEDIATE
B-7	5.25" x 11 7/8" 2.0E LVL	5 1/4"	4.5" ENDS & 11" INTERMEDIATE
B-8	3.5" x 18" 2.0E LVL	3 1/2"	4.5" ENDS & 11" INTERMEDIATE
B-9	5.25" x 18 2.0E LVL	5 1/4"	4.5" ENDS & 11" INTERMEDIATE
B-10	3.5" x 13.75" GLULAM	3 1/2"	4.5" ENDS & 11" INTERMEDIATE
NOTES: 1) BEAMS SHOWN ON PLANS ARE LOCATED UNDER THE SUB-FLOOR (UNO) 2) BLOCK BEAMS WITH 1/2" PLYWOOD CONTINUOUS 3) CONTRACTOR SHALL COORDINATE END CONDITIONS, HARDWARE, AND IDENTIFY CONNECTION CONFLICTS PRIOR TO CONSTRUCTION			

WALL SCHEDULE FOR FOUR STORY BLDG (LEVEL 4 AND PENTHOUSE)								
TYPE	FRAMING	SILL PLATE	TOP PLATE	SHEATHING	SHEATHING TYPE	NAIL SIZE	EDGES	FIELD
ALL EXTERIOR WALLS	2x6 @ 16" OC SPF NO. 2	SINGLE 2x6	DOUBLE 2x6	OUTSIDE FACE INSIDE FACE	7/16" EXT OSB 5/8" GYPSUM BD	8d COMMON 5d COOLER	3" OC 7" OC	6" OC 7" OC
SHEAR WALLS	2x6 @ 16" OC SPF NO. 2	SINGLE 2x6	DOUBLE 2x6	OUTSIDE FACE INSIDE FACE	7/16" EXT OSB 5/8" GYPSUM BD	8d COMMON 5d COOLER	3" OC 7" OC	6" OC 7" OC
INTERIOR BEARING WALLS	2x6 @ 16" OC SPF NO. 2	SINGLE 2x6	DOUBLE 2x6	BOTH FACES	5/8" GYPSUM BD	5d COOLER	7" OC	7" OC
INTERIOR NON-BRG WALLS	2x6 @ 16" OC SPF NO. 2	SINGLE 2x6	DOUBLE 2x6	BOTH FACES	5/8" GYPSUM BD	5d COOLER	7" OC	7" OC

WALL SCHEDULE FOR FOUR STORY BLDG (LEVEL 3)								
TYPE	FRAMING	SILL PLATE	TOP PLATE	SHEATHING	SHEATHING TYPE	NAIL SIZE	EDGES	FIELD
ALL EXTERIOR WALLS	2x6 @ 16" OC SPF NO. 2	SINGLE 2x6	DOUBLE 2x6	OUTSIDE FACE INSIDE FACE	7/16" EXT OSB 5/8" GYPSUM BD	8d COMMON 5d COOLER	3" OC 7" OC	6" OC 7" OC
SHEAR WALLS	2x6 @ 16" OC SPF NO. 2	SINGLE 2x6	DOUBLE 2x6	OUTSIDE FACE INSIDE FACE	7/16" EXT OSB 5/8" GYPSUM BD	8d COMMON 5d COOLER	3" OC 7" OC	6" OC 7" OC
INTERIOR BEARING WALLS	2x6 @ 16" OC SPF NO. 2	SINGLE 2x6	DOUBLE 2x6	BOTH FACES	5/8" GYPSUM BD	5d COOLER	7" OC	7" OC
INTERIOR NON-BRG WALLS	2x6 @ 16" OC SPF NO. 2	SINGLE 2x6	DOUBLE 2x6	BOTH FACES	5/8" GYPSUM BD	5d COOLER	7" OC	7" OC

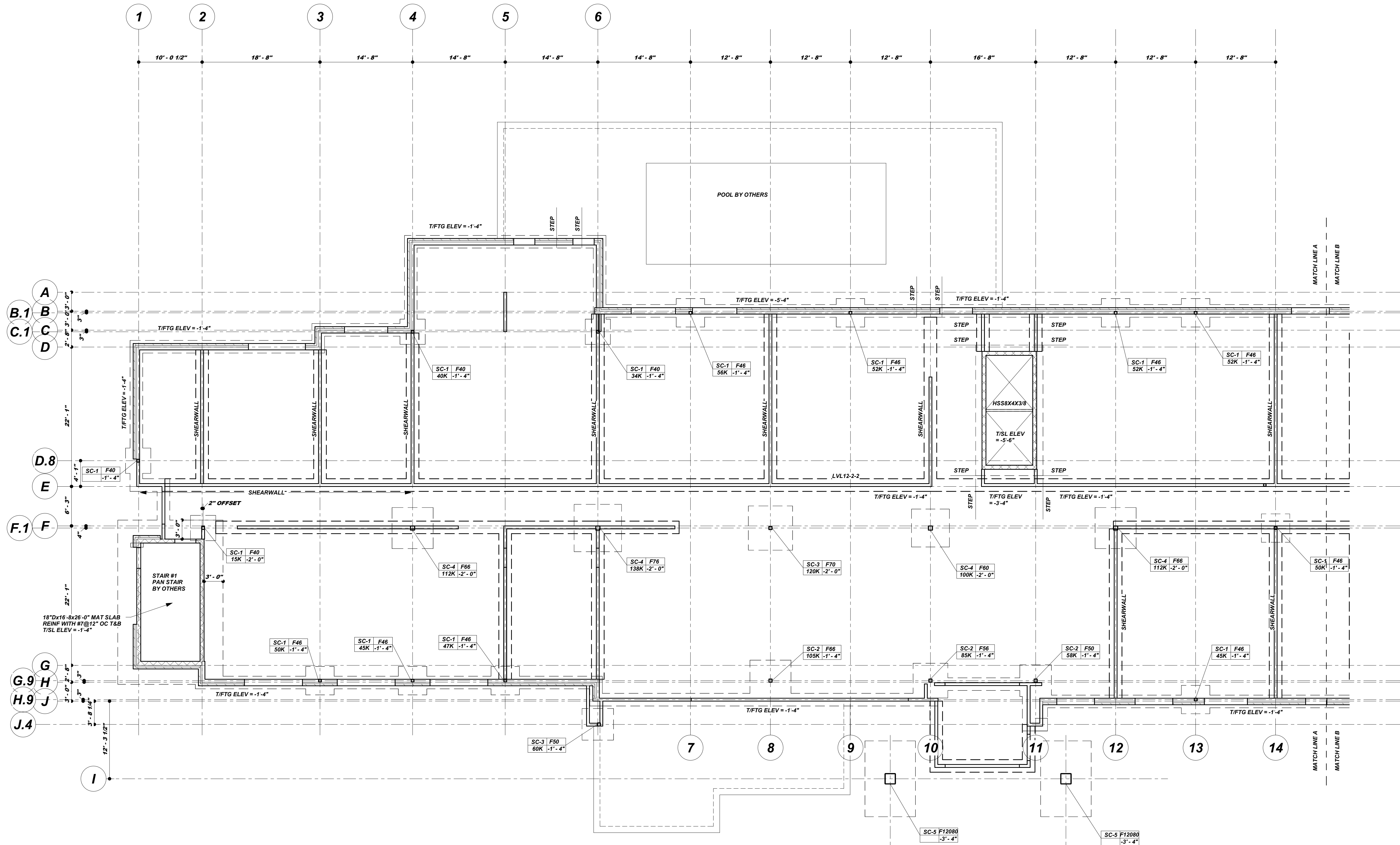
WALL SCHEDULE FOR FOUR STORY BLDG (LEVEL 2)								
TYPE	FRAMING	SILL PLATE	TOP PLATE	SHEATHING	SHEATHING TYPE	NAIL SIZE	EDGES	FIELD
ALL EXTERIOR WALLS	2x6 @ 16" OC SPF NO. 2	SINGLE 2x6	DOUBLE 2x6	OUTSIDE FACE INSIDE FACE	7/16" EXT OSB 5/8" GYPSUM BD	8d COMMON 5d COOLER	3" OC 7" OC	6" OC 7" OC
SHEAR WALLS	2x6 @ 16" OC SPF NO. 2	SINGLE 2x6	DOUBLE 2x6	OUTSIDE FACE INSIDE FACE	7/16" EXT OSB 5/8" GYPSUM BD	8d COMMON 5d COOLER	3" OC 7" OC	6" OC 7" OC
INTERIOR BEARING WALLS	2x6 @ 16" OC SPF NO. 2	SINGLE 2x6	DOUBLE 2x6	BOTH FACES	5/8" GYPSUM BD	5d COOLER	7" OC	7" OC
INTERIOR NON-BRG WALLS	2x6 @ 16" OC SPF NO. 2	SINGLE 2x6	DOUBLE 2x6	BOTH FACES	5/8" GYPSUM BD	5d COOLER	7" OC	7" OC

WALL SCHEDULE FOR FOUR STORY BLDG (LEVEL 1)								
TYPE	FRAMING	SILL PLATE	TOP PLATE	SHEATHING	SHEATHING TYPE	NAIL SIZE	EDGES	FIELD
ALL EXTERIOR WALLS (SEE NOTE 1)	(2)2x6 @ 16" OC SYP NO. 2	PRESSURE TREATED SINGLE 2x6	DOUBLE 2x6	OUTSIDE FACE INSIDE FACE	7/16" EXT OSB 5/8" GYPSUM BD	8d COMMON 5d COOLER	3" OC 7" OC	6" OC 7" OC
SHEAR WALLS (SEE NOTE 2)	(2)2x6 @ 16" OC SPF NO. 2	PRESSURE TREATED SINGLE 2x6	DOUBLE 2x6	OUTSIDE FACE INSIDE FACE	7/16" EXT OSB 5/8" GYPSUM BD	8d COMMON 5d COOLER	3" OC 7" OC	6" OC 7" OC
INTERIOR BEARING WALLS	(2)2x6@16" OC SPF NO. 2	PRESSURE TREATED SINGLE 2x6	DOUBLE 2x6	BOTH FACES	5/8" GYPSUM BD	5d COOLER	7" OC	7" OC
INTERIOR NON-BRG WALLS	2x6 @ 16" OC SPF NO. 2	PRESSURE TREATED SINGLE 2x6	DOUBLE 2x6	BOTH FACES	5/8" GYPSUM BD	5d COOLER	7" OC	7" OC

TYPICAL WALL FRAMING NOTES:
1. STUDS WITH 3'-0" OF ALL CORNERS SHALL BE 12" OC
2. BOTTOM PLATES SHALL BE ATTACHED TO SLAB WITH 3/4" DIA x 8" EMBEDDED ANCHOR BOLTS @ 2'-0" OC MAX & 6" MAX FROM ENDS
3. PROVIDE 2x BLOCKING AT ALL UNSUPPORTED SHEATHING PANEL EDGES.
4. PROVIDE 1/8" GAP AT ALL SHEATHING PANEL EDGES AND END JOINTS UNO.
5. PROVIDE 3/8" GAP AT EACH FLOOR PLATE LEVEL FOR WOOD SHRINKAGE.

STEEL COLUMN SCHEDULE			
TAG	SIZE	BASE PLATE (UNO)	ANCHOR BOLTS
SC-1	HSS5.5x5.5x3/8	3/4" x 12" x 12"	(4) 3/4" DIA - F1554 8" EMBED
SC-2	HSS6x6x1/4	3/4" x 12" x 12"	(4) 3/4" DIA - F1554 8" EMBED
SC-3	HSS6x6x3/8	3/4" x 12" x 12"	(4) 3/4" DIA - F1554 8" EMBED
SC-4	HSS8x8x3/8	3/4" x 14" x 14"	(4) 3/4" DIA - F1554 8" EMBED
SC-5	HSS20x20x1/2	1 3/4" x 28" x 28"	(4) 1 1/4" DIA - A325 20" EMBED

FOOTING SCHEDULE (3000 PSF ALLOWABLE BEARING)			
TAG	DIMENSIONS	REINFORCING	SERVICE LOAD
F30	3'-0" x 3'-0" x 1'-0"	4#4 x 2'-6" EW	26 K
F36	3'-6" x 3'-6" x 1'-0"	5#4 x 3'-6" EW	35 K
F40	4'-0" x 4'-0" x 1'-0"	4#5 x 3'-6" EW	46 K
F46	4'-6" x 4'-6" x 1'-0"	4#5 x 4'-0" EW	58 K
F50	5'-0" x 5'-0" x 1'-0"	5#5 x 4'-6" EW	72 K
F56	5'-6" x 5'-6" x 1'-1"	6#5 x 5'-0" EW	86 K
F60	6'-0" x 6'-0" x 1'-2"	7#5 x 5'-6" EW	103 K
F66	6'-6" x 6'-6" x 1'-4"	8#5 x 6'-0" EW	119 K
F70	7'-0" x 7'-0" x 1'-5"	6#6 x 6'-6" EW	138 K
F76	7'-6" x 7'-6" x 1'-6"	7#6 x 7'-0" EW	158 K
F80	8'-0" x 8'-0" x 1'-7"	6#7 x 7'-6" EW	178 K
F86	8'-6" x 8'-6" x 1'-8"	7#7 x 8'-0" EW	201 K
F90	9'-0" x 9'-0" x 1'-10"	8#7 x 8'-6" EW	224 K
F12080	12'-0" x 8'-0" x 2'-6"	7#9 x 11'-6" T&B 11#7 x 7'-6" T&B	
NOTE: ALLOWABLE BEARING PRESSURE MUST BE VERIFIED UNDER EACH FTG BY GEOTECHNICAL TESTING PRIOR TO PLACING CONCRETE			



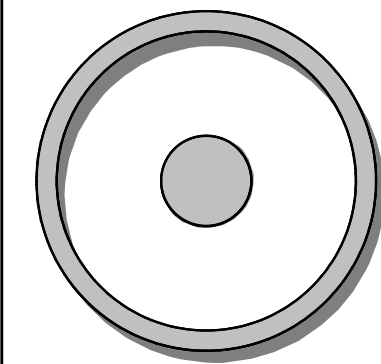
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S-201
FOUNDATION PLAN - AREA A
1/8" = 1'-0"

FOUNDATION PLAN NOTES:

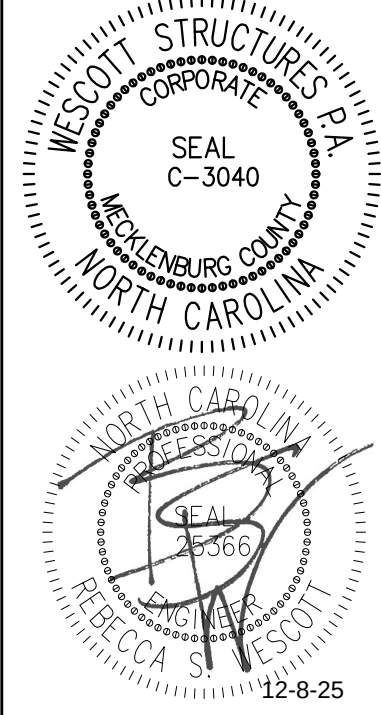
- A. T/SOG = 0'-0" SEE CIVIL FOR REFERENCED DATUM. OTHER ELEMENTS SUCH AS T/FTG OR SLAB DEPRESSIONS WILL BE REFERENCED ON PLANS AS +/- FROM THAT DATUM.
- B. TYPICAL SLAB ON GRADE IS 4" NORMAL WEIGHT 3000 PSI CONCRETE, REINFORCED WITH 6X6-W2.1X2.1 WWF. ON 4" COMPACTED CRUSHED STONE. SUPPORT WWF 1" FROM TOP OF SLAB ON SAND PLATE CHAIRS. CLAY BRICKS SHALL NOT BE PERMITTED. SEE ARCHITECTURAL DRAWINGS FOR VAPOR BARRIER IF REQUIRED.
- C. CONTROL JOINTS SHALL BE LOCATED AS SHOWN ON PLANS AND SHALL BE AT 16'-0" MAX SPACING. SEE TYPICAL DETAILS ON S300 FOR SAW CUT DEPTH AND ADDITIONAL STEEL REQUIREMENTS AT COLD JOINTS.
- D. COLUMN AND WALL FOOTINGS SHALL BEAR ON UNDISTURBED BEARING STRATA OR ON ENGINEERED FILL. ACCORDING TO THE GEOTECHNICAL REPORT NOTED ON S1.00 STRUCTURAL GENERAL NOTES. UNDERCUTTING AND BACKFILLING IS NOT PERMITTED. OVEREXCAVATION SHALL BE FILLED WITH 2000 PSI LEAN CONCRETE.
- E. T/FTG ELEVATIONS ARE SHOWN ON PLAN. WALL FOOTINGS ADJACENT TO COLUMNS SHALL MATCH COLUMN FOOTINGS. PLAN DIMENSIONS OF STEP FTGS ARE APPROXIMATE AND MAY BE ADJUSTED RELATIVE TO ACTUAL GRADES AS REQUIRED WITH 2'-0" MINIMUM SEPARATION.
- F. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLAB DIMENSIONS, SLOPES, AND DEPRESSIONS, BLOCK-OUTS, DRAIN LINES, DUCT BUSSES, SLEEVES, OUTLET BOXES, CONDUIT, AND OTHER COORDINATION ITEMS.

- G. REFER TO STRUCTURAL GENERAL NOTES ON S-100 AND PROJECT SPECIFICATIONS FOR CONSTRUCTION AND MATERIAL REQUIREMENTS.
- H. FOOTINGS ARE NOTED ON PLANS WITH THESE DESIGNATIONS:
CX = COLUMN MARK (SEE SCHEDULE)
FXX = FOOTING MARK (SEE SCHEDULE)
T/FTG = TOP OF FOOTING (FROM DATUM)
XXK = SERVICE AXIAL LOAD (KIPS)
(XXK) = SERVICE UPLIFT (KIPS)
- J. REFER TO SHEET S-101 FOR COLUMN, FOOTING, BEAM, HEADER AND WALL SCHEDULES.
- L. HEADERS SIZE SHALL BE H10-3-2 UNLESS NOTED OTHERWISE

CX	FXX
XXK	T/FTG
(XXK)	



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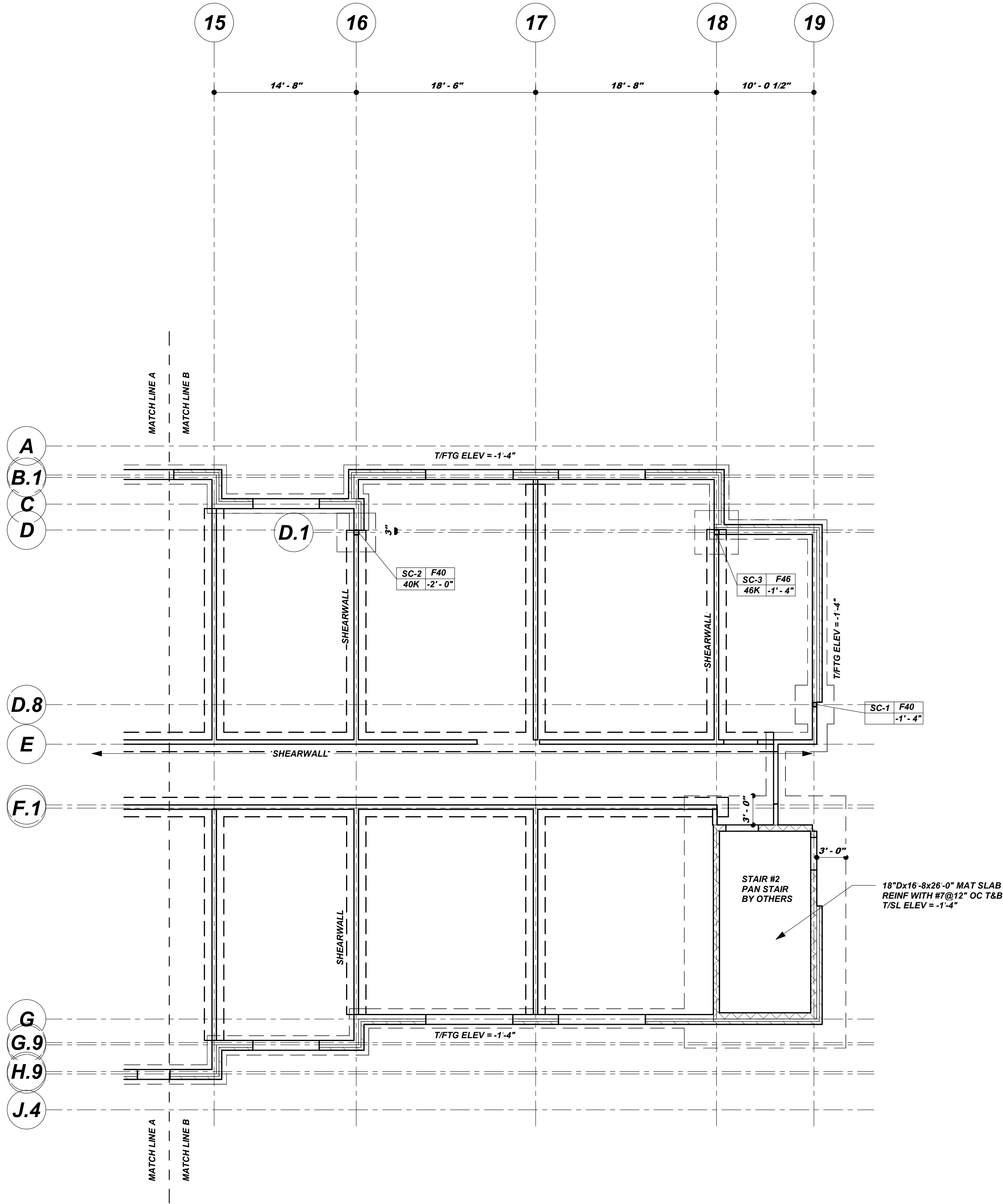
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project no:
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FOUNDATION PLAN -
AREA A

S-201

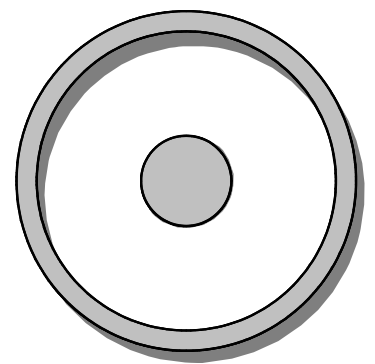
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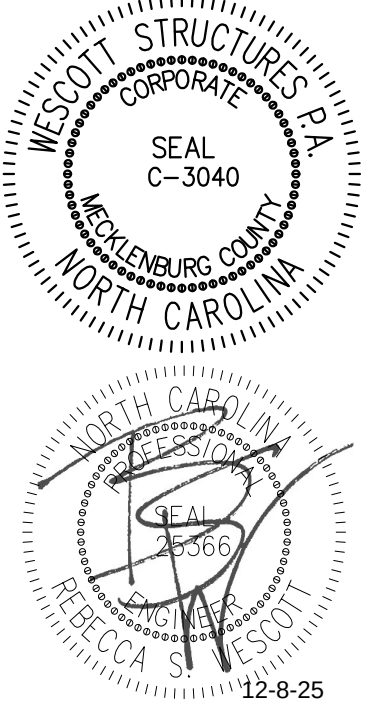
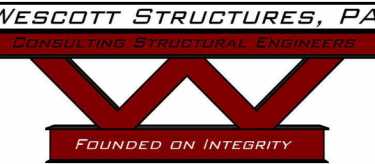
1 FOUNDATION PLAN - AREA B
S-202 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

- A. T/SOG = 0'-0" SEE CIVIL FOR REFERENCED DATUM. OTHER ELEMENTS SUCH AS T/FTG OR SLAB DEPRESSIONS WILL BE REFERENCED ON PLANS AS +/- FROM THAT DATUM.
- B. TYPICAL SLAB ON GRADE IS 4" NORMAL WEIGHT 3000 PSI CONCRETE, REINFORCED WITH 6X6-W2.1X2.1 WWF. ON 4" COMPACTED CRUSHED STONE. SUPPORT WWF 1" FROM TOP OF SLAB ON SAND PLATE CHAIRS. CLAY BRICKS SHALL NOT BE PERMITTED. SEE ARCHITECTURAL DRAWINGS FOR VAPOR BARRIER IF REQUIRED.
- C. CONTROL JOINTS SHALL BE LOCATED AS SHOWN ON PLANS AND SHALL BE AT 16'-0" MAX SPACING. SEE TYPICAL DETAILS ON S300 FOR SAW CUT DEPTH AND ADDITIONAL STEEL REQUIREMENTS AT COLD JOINTS.
- D. COLUMN AND WALL FOOTINGS SHALL BEAR ON UNDISTURBED BEARING STRATA OR ON ENGINEERED FILL ACCORDING TO THE GEOTECHNICAL REPORT NOTED ON S1.00 STRUCTURAL GENERAL NOTES. UNDERCUTTING AND BACKFILLING IS NOT PERMITTED. OVEREXCAVATION SHALL BE FILLED WITH 2000 PSI LEAN CONCRETE.
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- F. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLAB DIMENSIONS, SLOPES, AND DEPRESSIONS, BLOCK-OUTS, DRAIN LINES, DUCT BUSSES, SLEEVES, OUTLET BOXES, CONDUIT, AND OTHER COORDINATION ITEMS.
- G. REFER TO STRUCTURAL GENERAL NOTES ON S-100 AND PROJECT SPECIFICATIONS FOR CONSTRUCTION AND MATERIAL REQUIREMENTS.
- H. FOOTINGS ARE NOTED ON PLANS WITH THESE DESIGNATIONS:
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FX = FOOTING MARK (SEE SCHEDULE)
T/FTG = TOP OF FOOTING (FROM DATUM)
XXK = SERVICE AXIAL LOAD (KIPS)
(XXK) = SERVICE UPLIFT (KIPS)
- J. REFER TO SHEET S-101 FOR COLUMN, FOOTING, BEAM, HEADER AND WALL SCHEDULES.
- L. HEADERS SIZE SHALL BE H10-3-2 UNLESS NOTED OTHERWISE



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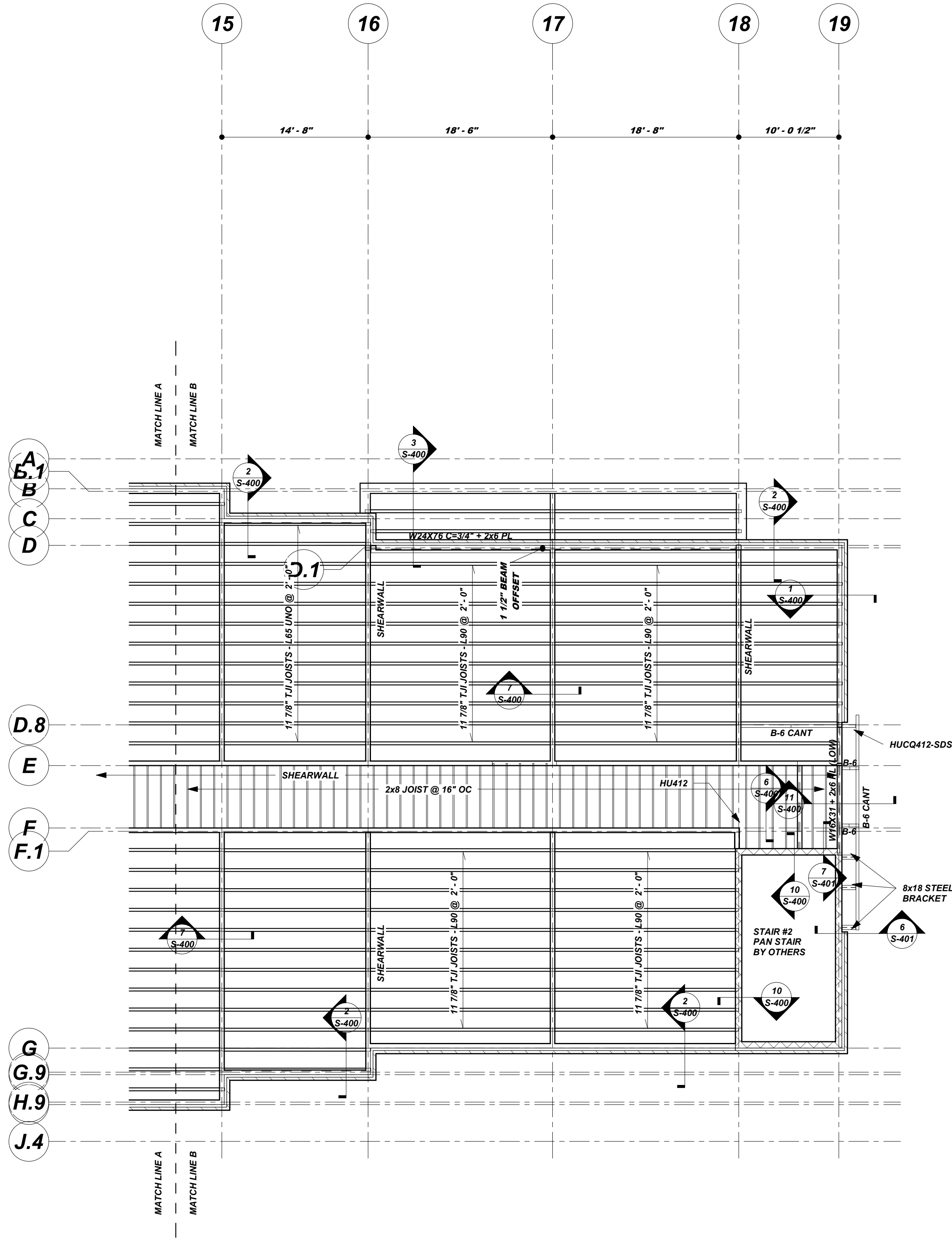
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Revision	Date	Description

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Author
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Checker
project no:
WesS #25.006

FOUNDATION PLAN -
AREA B

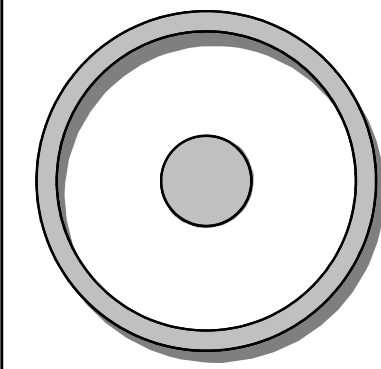
S-202



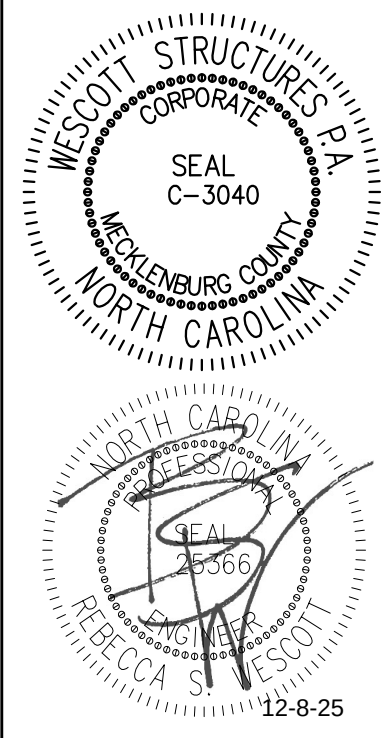
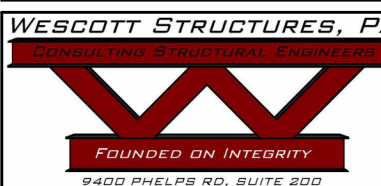
1 **LEVEL 200 FRAMING PLAN - AREA B**
S-204 1/8" = 1'-0"

FLOOR FRAMING NOTES:

- A. SEE ARCHITECTURAL DRAWINGS FOR T/SUBFLOOR ELEVATION, DIMENSIONS, SLOPES, AND DEPRESSIONS.
- B. TYPICAL SUBFLOOR SHEATHING IS 3/4" ORIENTED STRAND BOARD. SHEATHING SHALL BE A MINIMUM OF 24" WIDE AND INSTALLED WITH LONG SIDES PERPENDICULAR TO FLOOR FRAMING. STAGGER END JOINTS AND PROVIDE 1/8" GAP AT EDGES. TYPICAL NAILING PATTERN SHALL BE 10D CC NAILS @ 12" OC IN PANEL FIELD AND 6" OC AT ALL EDGES. DIAPHRAGMS SHALL BE BLOCKED AT ALL EXTERIOR & BEARING WALLS.
- C. THE LOAD BEARING SIDE OF ALL DOUBLE WALLS SHALL HAVE ONE SIDE SHEATHED AS A SHEARWALL. ADDITIONAL SHEARWALLS ARE NOTED ON THE PLANS. SHEARWALLS SHALL BE SHEATHED AND FASTENED ACCORDING TO SCHEDULE ON S1.01.
- D. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR BLOCK-OUTS, DRAIN LINES, SLEEVES, OUTLET BOXES, CONDUIT, AND OTHER COORDINATION ITEMS. PROVIDE VERTICAL SLIP CONNECTIONS AT EVERY FLOOR TO ACCOMMODATE 1/4" SHRINKAGE (CUMULATIVE).
- E. REFER TO STRUCTURAL GENERAL NOTES ON S-100 AND PROJECT SPECIFICATIONS FOR CONSTRUCTION AND MATERIAL REQUIREMENTS.
- F. MECHANICAL EQUIPMENT SHOWN ON PLAN ARE APPROXIMATE LOCATIONS AND SHALL BE VERIFIED WITH THE MECHANICAL ENGINEER PRIOR TO INSTALLATION. UNIT WEIGHTS SHOWN ON PLAN ARE THOSE USED FOR DESIGN. NO UNITS SHALL BE INSTALLED WITH WEIGHTS GREATER THAN THOSE SHOWN WITHOUT PRIOR WRITTEN CONSENT FROM THE STRUCTURAL ENGINEER OF RECORD.
- G. SEE SHEET S-101 FOR COLUMN, FOOTING, HEADER AND WALL SCHEDULES AND CONNECTION REQUIREMENTS.
- H. HEADERS IN EXTERIOR AND LOAD BEARING WALLS SHALL BE H10-3-2 UNO.



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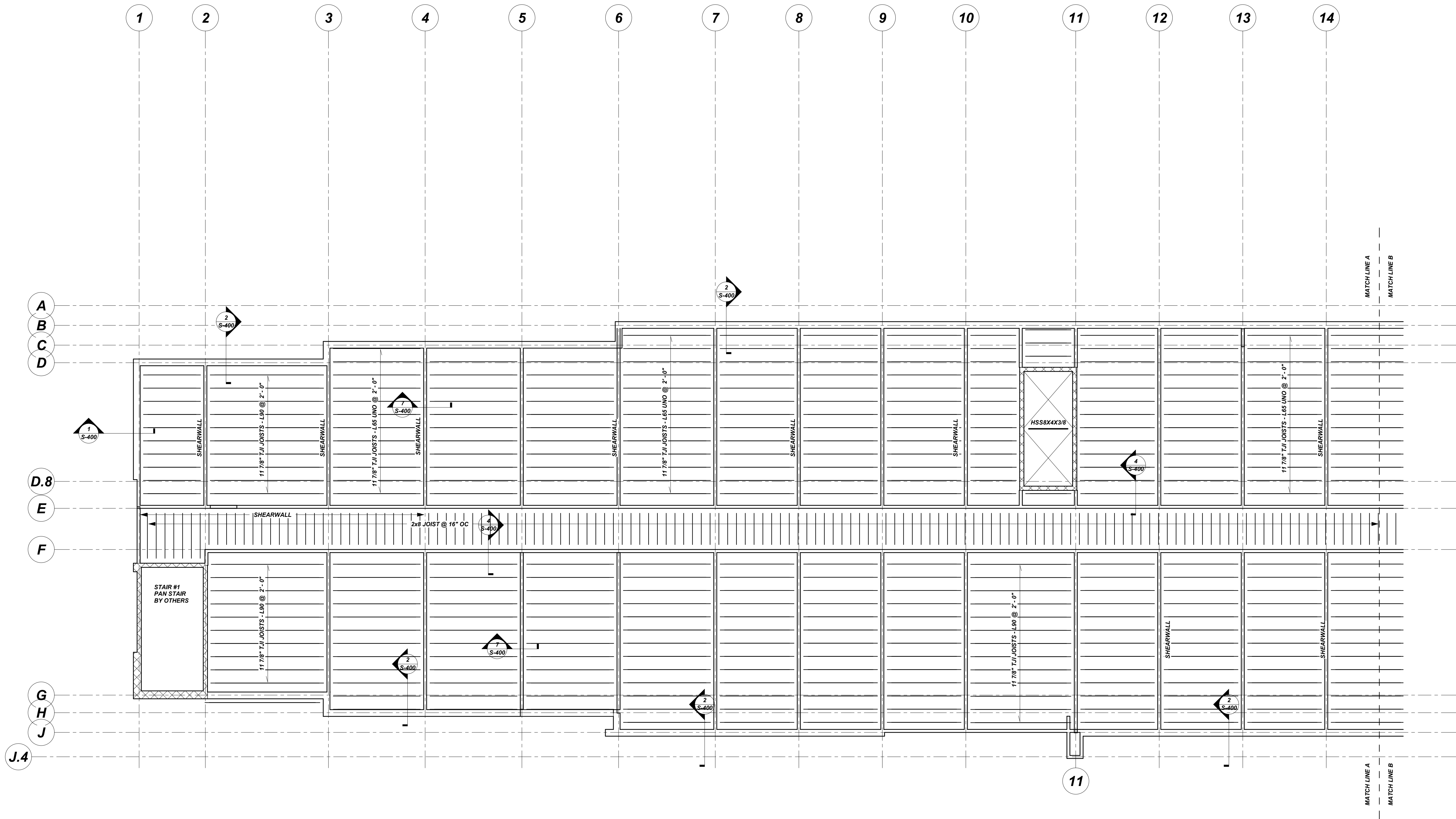
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c h e c k e d b y :
RSW

p r o j e c t n o :
WesS #25.006

2ND FLOOR FRAMING
PLAN - AREA B

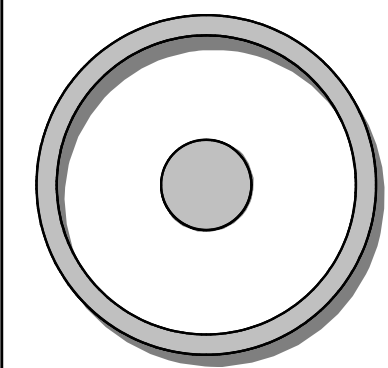
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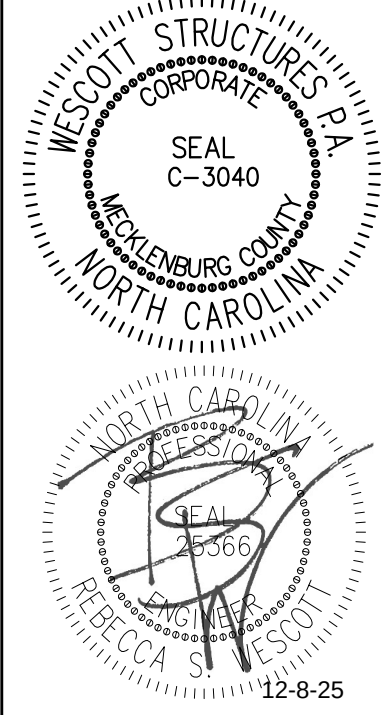
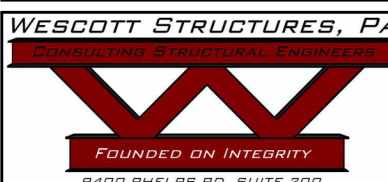
1 LEVEL 300 & 400 FRAMING PLANS - AREA A
S-205 1/8" = 1'-0"

FLOOR FRAMING NOTES:

- A. SEE ARCHITECTURAL DRAWINGS FOR T/SUBFLOOR ELEVATION, DIMENSIONS, SLOPES, AND DEPRESSIONS.
- B. TYPICAL SUBFLOOR SHEATHING IS 3/4" ORIENTED STRAND BOARD. SHEATHING SHALL BE A MINIMUM OF 24" WIDE AND INSTALLED WITH LONG SIDES PERPENDICULAR TO FLOOR FRAMING. STAGGER END JOINTS AND PROVIDE 1/8" GAP AT EDGES. TYPICAL NAILING PATTERN SHALL BE 10D CC NAILS @ 12" OC IN PANEL FIELD AND 6" OC AT ALL EDGES. DIAPHRAGMS SHALL BE BLOCKED AT ALL EXTERIOR & BEARING WALLS.
- C. THE LOAD BEARING SIDE OF ALL DOUBLE WALLS SHALL HAVE ONE SIDE SHEATHED AS A SHEARWALL. ADDITIONAL SHEARWALLS ARE NOTED ON THE PLANS. SHEARWALLS SHALL BE SHEATHED AND FASTENED ACCORDING TO SCHEDULE ON S1.01.
- D. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR BLOCK-OUTS, DRAIN LINES, SLEEVES, OUTLET BOXES, CONDUIT, AND OTHER COORDINATION ITEMS. PROVIDE VERTICAL SLIP CONNECTIONS AT EVERY FLOOR TO ACCOMMODATE 1/4" SHRINKAGE (CUMULATIVE).
- E. REFER TO STRUCTURAL GENERAL NOTES ON S-100 AND PROJECT SPECIFICATIONS FOR CONSTRUCTION AND MATERIAL REQUIREMENTS.
- F. MECHANICAL EQUIPMENT SHOWN ON PLAN ARE APPROXIMATE LOCATIONS AND SHALL BE VERIFIED WITH THE MECHANICAL ENGINEER PRIOR TO INSTALLATION. UNIT WEIGHTS SHOWN ON PLAN ARE THOSE USED FOR DESIGN. NO UNITS SHALL BE INSTALLED WITH WEIGHTS GREATER THAN THOSE SHOWN WITHOUT PRIOR WRITTEN CONSENT FROM THE STRUCTURAL ENGINEER OF RECORD.
- G. SEE SHEET S-101 FOR COLUMN, FOOTING, HEADER AND WALL SCHEDULES AND CONNECTION REQUIREMENTS.
- H. HEADERS IN EXTERIOR AND LOAD BEARING WALLS SHALL BE H10-3-2 UNO.



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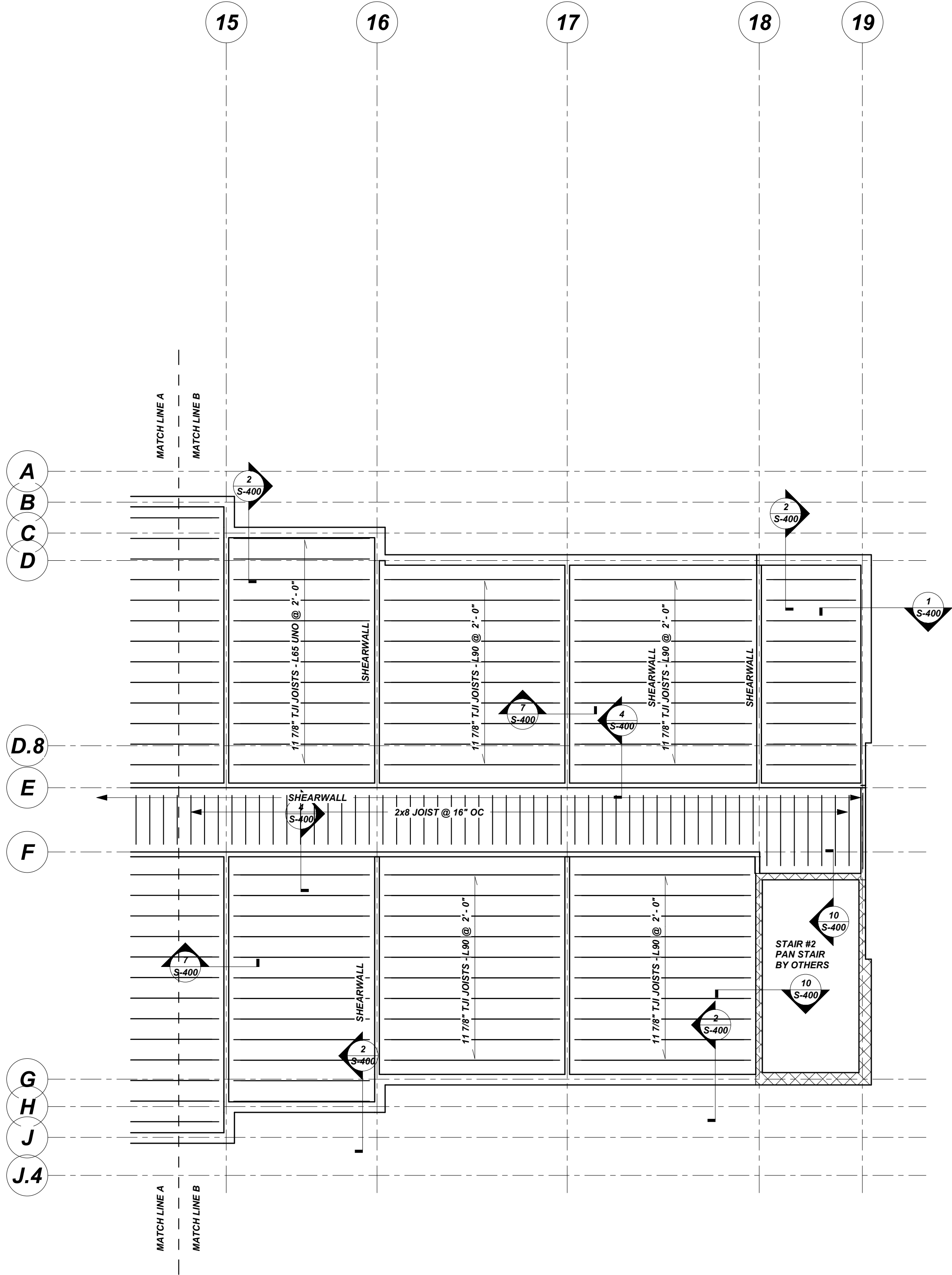
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ISSUE	NAME	DATE
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revisions:		
Revision	Date	Description

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Author
checked by:
Checker
project no:
WesS #25.006

3RD & 4TH FLOOR
FRAMING PLANS -
AREA A

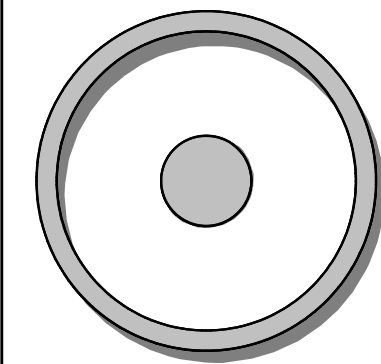
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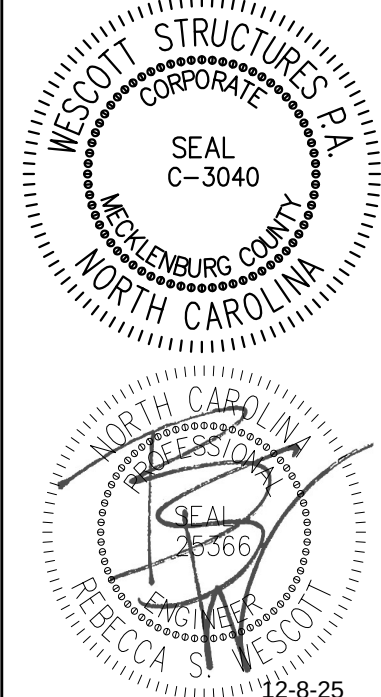
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S-206 **LEVEL 300 & 400 FRAMING PLANS - AREA B**
1/8" = 1'-0"

FLOOR FRAMING NOTES:

- A. SEE ARCHITECTURAL DRAWINGS FOR T/SUBFLOOR ELEVATION, DIMENSIONS, SLOPES, AND DEPRESSIONS.
- B. TYPICAL SUBFLOOR SHEATHING IS 3/4" ORIENTED STRAND BOARD. SHEATHING SHALL BE A MINIMUM OF 24" WIDE AND INSTALLED WITH LONG SIDES PERPENDICULAR TO FLOOR FRAMING. STAGGER END JOINTS AND PROVIDE 1/8" GAP AT EDGES. TYPICAL NAILING PATTERN SHALL BE 10D CC NAILS @ 12" OC IN PANEL FIELD AND 6" OC AT ALL EDGES. DIAPHRAGMS SHALL BE BLOCKED AT ALL EXTERIOR & BEARING WALLS.
- C. THE LOAD BEARING SIDE OF ALL DOUBLE WALLS SHALL HAVE ONE SIDE SHEATHED AS A SHEARWALL. ADDITIONAL SHEARWALLS ARE NOTED ON THE PLANS. SHEARWALLS SHALL BE SHEATHED AND FASTENED ACCORDING TO SCHEDULE ON S1.01.
- D. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR BLOCK-OUTS, DRAIN LINES, SLEEVES, OUTLET BOXES, CONDUIT, AND OTHER COORDINATION ITEMS. PROVIDE VERTICAL SLIP CONNECTIONS AT EVERY FLOOR TO ACCOMMODATE 1/4" SHRINKAGE (CUMULATIVE).
- E. REFER TO STRUCTURAL GENERAL NOTES ON S-100 AND PROJECT SPECIFICATIONS FOR CONSTRUCTION AND MATERIAL REQUIREMENTS.
- F. MECHANICAL EQUIPMENT SHOWN ON PLAN ARE APPROXIMATE LOCATIONS AND SHALL BE VERIFIED WITH THE MECHANICAL ENGINEER PRIOR TO INSTALLATION. UNIT WEIGHTS SHOWN ON PLAN ARE THOSE USED FOR DESIGN. NO UNITS SHALL BE INSTALLED WITH WEIGHTS GREATER THAN THOSE SHOWN WITHOUT PRIOR WRITTEN CONSENT FROM THE STRUCTURAL ENGINEER OF RECORD.
- G. SEE SHEET S-101 FOR COLUMN, FOOTING, HEADER AND WALL SCHEDULES AND CONNECTION REQUIREMENTS.
- H. HEADERS IN EXTERIOR AND LOAD BEARING WALLS SHALL BE H10-3-2 UNO.



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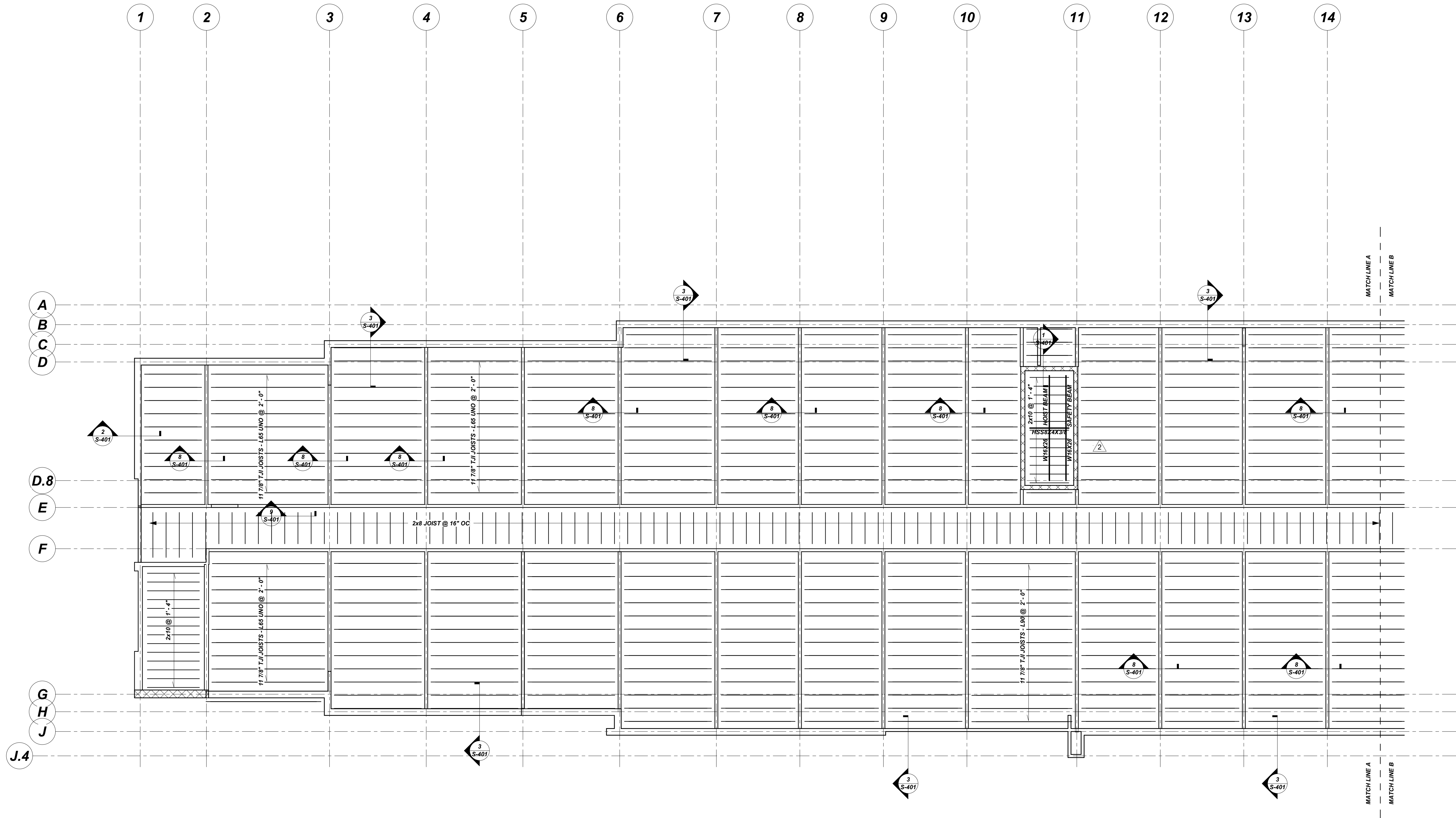
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p r o j e c t n o :
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3RD & 4TH FLOOR
FRAMING PLANS -
AREA B

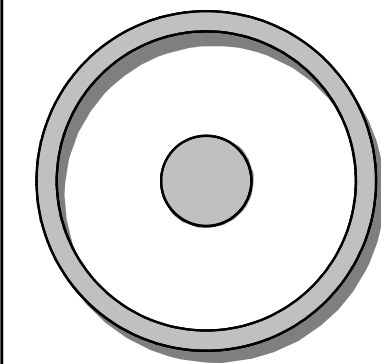
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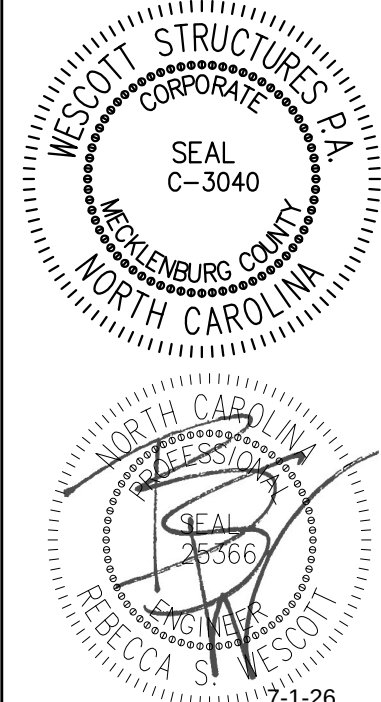
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S-207 **ROOF FRAMING PLAN - AREA A**
1/8" = 1'-0"

ROOF FRAMING NOTES:

- A. SEE ARCHITECTURAL DRAWINGS FOR TRUSS BEARING ELEVATION.
- B. TYPICAL ROOF SHEATHING IS 23/32" OSB UNLESS NOTED. USE TREATED EXTERIOR GRADE IN AREAS SUBJECT TO WEATHER EXPOSURE. SHEATHING SHALL BE A MINIMUM OF 24" WIDE AND MAY BE INSTALLED WITH LONG SIDES PARALLEL TO ROOF FRAMING. STAGGER END JOINTS AND PROVIDE 1/8" GAP AT EDGES. TYPICAL NAILING PATTERN SHALL BE 10d CC NAILS @ 12" OC IN PANEL FIELD AND 6" OC AT ALL EDGES. AT ALL PERIMETER EDGES THE FIRST 4'-0" SHALL BE FASTENED WITH 10d CC NAILS @ 4" OC.
- C. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, SLOPES, AND DEPRESSIONS.
- D. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR BLOCK-OUTS, DRAIN LINES, SLEEVES, OUTLET BOXES, CONDUIT, AND OTHER COORDINATION ITEMS. PROVIDE VERTICAL SLIP CONNECTIONS AT EVERY FLOOR TO ACCOMMODATE 1/4" SHRINKAGE (CUMULATIVE).
- E. REFER TO STRUCTURAL GENERAL NOTES ON S100 AND PROJECT SPECIFICATIONS FOR CONSTRUCTION AND MATERIAL REQUIREMENTS.
- F. MECHANICAL EQUIPMENT SHOWN ON PLAN ARE IN APPROXIMATE LOCATIONS AND SHALL BE VERIFIED WITH THE MECHANICAL ENGINEER PRIOR TO INSTALLATION. UNIT WEIGHTS SHOWN ON PLAN ARE THOSE USED FOR DESIGN. NO UNITS SHALL BE INSTALLED WITH WEIGHTS GREATER THAN THOSE SHOWN WITHOUT PRIOR WRITTEN CONSENT FROM THE STRUCTURAL ENGINEER OF RECORD.
- G. TYPICAL ROOF TRUSSES SHALL BE DESIGNED FOR 20 PSF DL PLUS 20 PSF LL OVER A 2'-0" TRIB WIDTH PLUS ALL ADDITIONAL APPLICABLE LOADS FROM TRANSFERS, WALLS, OVERFRAMING, ETC. PROVIDE SIMPSON H2.5A AT EACH JOIST (OR APPROVED EQUAL WITH MINIMUM CAPACITY 5 PSF NET UPLIFT).
- H. ALL ROOF TRUSS GIRDER ENDS SHALL BE FRAMED WITH BUILT-UP COLUMNS CONTINUOUSLY FROM UNDERSIDE OF BEARING TO THE FOUNDATION.



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Revision	Date	Description
2	7-1-26	DUMPSTER ENCLOSURE

drawn by:
CADD

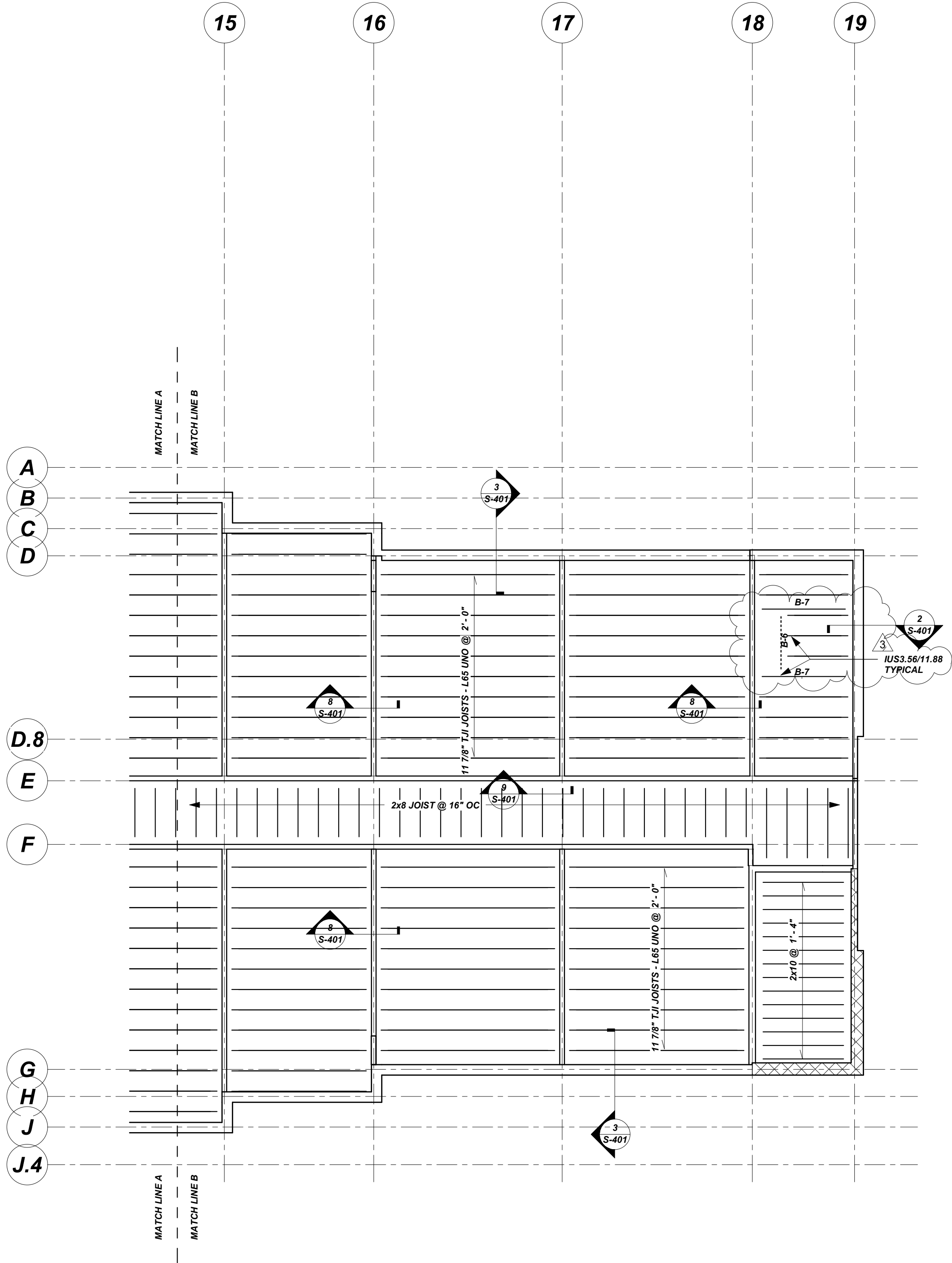
checked by:
RSW

project no:
WesS #25.006

ROOF FRAMING PLAN -
AREA A

S-207

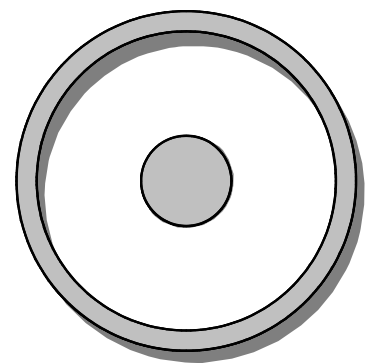
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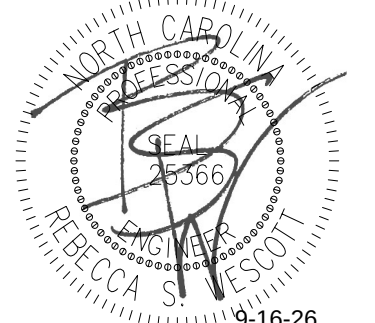
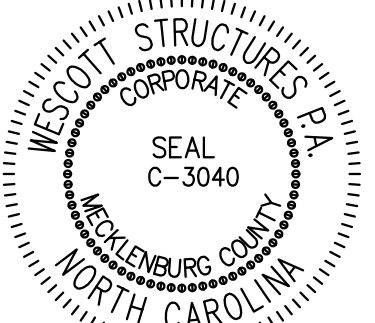
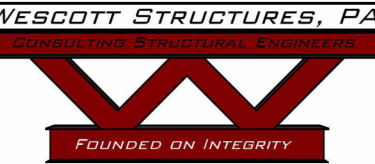
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S-208 **ROOF FRAMING PLAN - AREA B**
1/8" = 1'-0"

ROOF FRAMING NOTES:

- A. SEE ARCHITECTURAL DRAWINGS FOR TRUSS BEARING ELEVATION.
- B. TYPICAL ROOF SHEATHING IS 23/32" OSB UNLESS NOTED. USE TREATED EXTERIOR GRADE IN AREAS SUBJECT TO WEATHER EXPOSURE. SHEATHING SHALL BE A MINIMUM OF 24" WIDE AND MAY BE INSTALLED WITH LONG SIDES PARALLEL TO ROOF FRAMING. STAGGER END JOINTS AND PROVIDE 1/8" GAP AT EDGES. TYPICAL NAILING PATTERN SHALL BE 10d CC NAILS @ 12" OC IN PANEL FIELD AND 6" OC AT ALL EDGES. AT ALL PERIMETER EDGES THE FIRST 4'-0" SHALL BE FASTENED WITH 10d CC NAILS @ 4" OC.
- C. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, SLOPES, AND DEPRESSIONS.
- D. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR BLOCK-OUTS, DRAIN LINES, SLEEVES, OUTLET BOXES, CONDUIT, AND OTHER COORDINATION ITEMS. PROVIDE VERTICAL SLIP CONNECTIONS AT EVERY FLOOR TO ACCOMMODATE 1/4" SHRINKAGE (CUMULATIVE).
- E. REFER TO STRUCTURAL GENERAL NOTES ON S100 AND PROJECT SPECIFICATIONS FOR CONSTRUCTION AND MATERIAL REQUIREMENTS.
- F. MECHANICAL EQUIPMENT SHOWN ON PLAN ARE IN APPROXIMATE LOCATIONS AND SHALL BE VERIFIED WITH THE MECHANICAL ENGINEER PRIOR TO INSTALLATION. UNIT WEIGHTS SHOWN ON PLAN ARE THOSE USED FOR DESIGN. NO UNITS SHALL BE INSTALLED WITH WEIGHTS GREATER THAN THOSE SHOWN WITHOUT PRIOR WRITTEN CONSENT FROM THE STRUCTURAL ENGINEER OF RECORD.
- G. TYPICAL ROOF TRUSSES SHALL BE DESIGNED FOR 20 PSF DL PLUS 30 PSF LL OVER A 2'-0" TRIB WIDTH PLUS ALL ADDITIONAL APPLICABLE LOADS FROM TRANSFERS, WALLS, OVERFRAMING, ETC. PROVIDE SIMPSON H2.5A AT EACH JOIST (OR APPROVED EQUAL WITH MINIMUM CAPACITY 5 PSF NET UPLIFT).
- H. ALL ROOF TRUSS GIRDER ENDS SHALL BE FRAMED WITH BUILT-UP COLUMNS CONTINUOUSLY FROM UNDERSIDE OF BEARING TO THE FOUNDATION.



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3	9-16-26	Clarifications

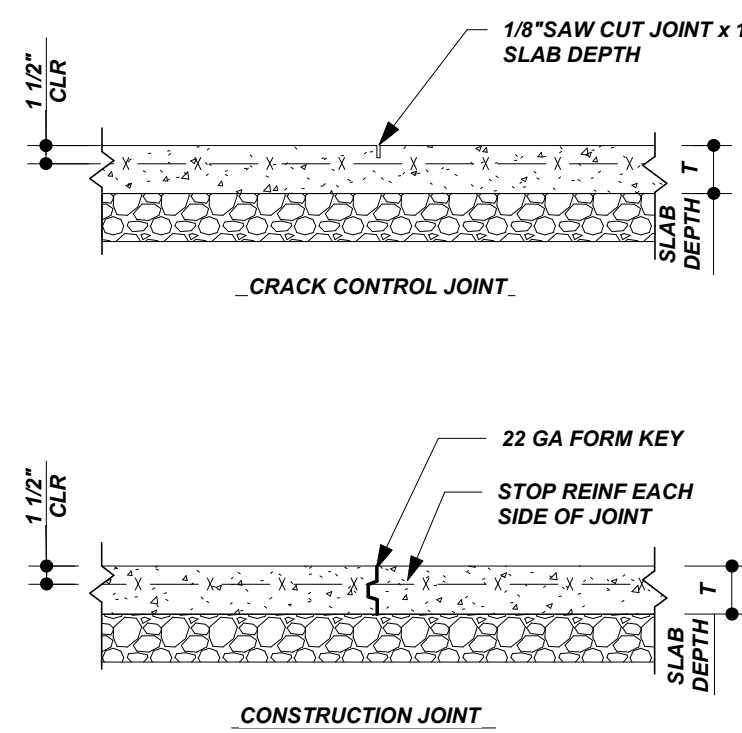
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c h e c k e d b y :
RSW

p r o j e c t n o.:
WesS #25.006

ROOF FRAMING PLAN -
AREA B

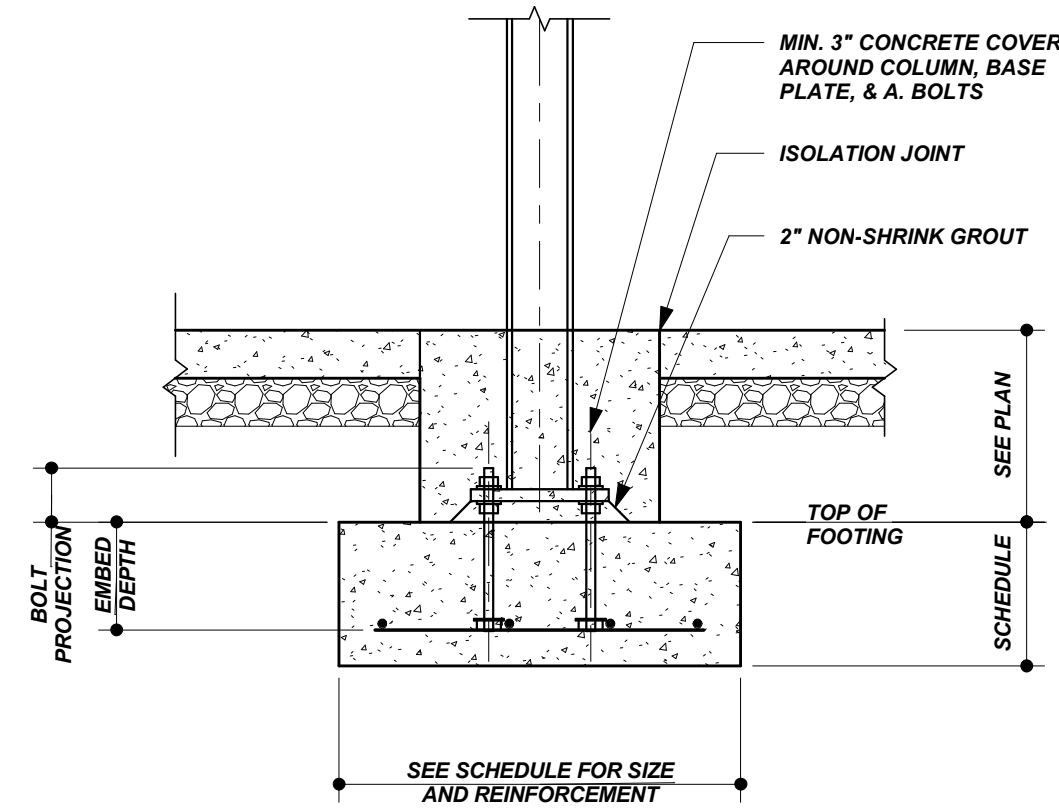
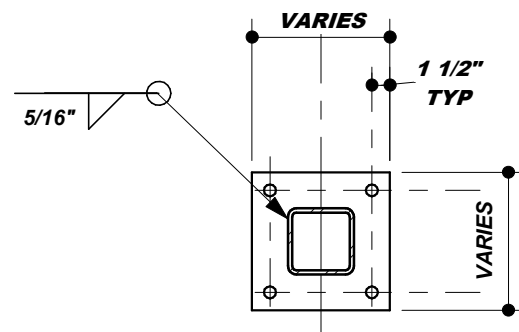
S-208



- 1) SEE ARCHITECTURAL DOCUMENTS FOR VAPOR BARRIER REQUIREMENTS.
- 2) SEE GEOTECHNICAL REPORT FOR COMPACTION AND BASE COURSE REQUIREMENTS.
- 3) SEE FOUNDATION PLAN NOTES FOR SLAB ON GRADE REINFORCING REQUIREMENTS.
- 4) PROVIDE CRACK CONTROL CONSTR JOINTS AT 16'-0" MAXIMUM XIMUM EACH WAY FOR 4" SLABS, AT 20'-0" MAXIMUM EACH WAY FOR 5" SLABS, AT 24" MAXIMUM EACH WAY FOR 6" SLABS.

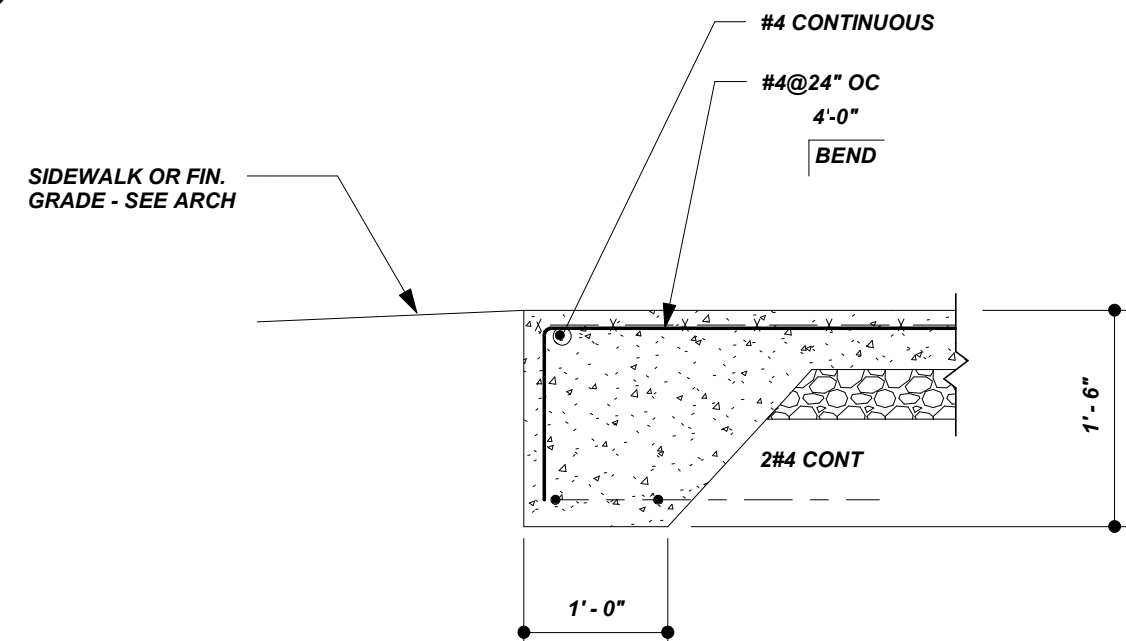
1 TYPICAL SLAB DETAILS

S-300 3/4" = 1'-0"



5 TYPICAL INTERIOR COLUMN SECTION

S-300 3/4" = 1'-0"



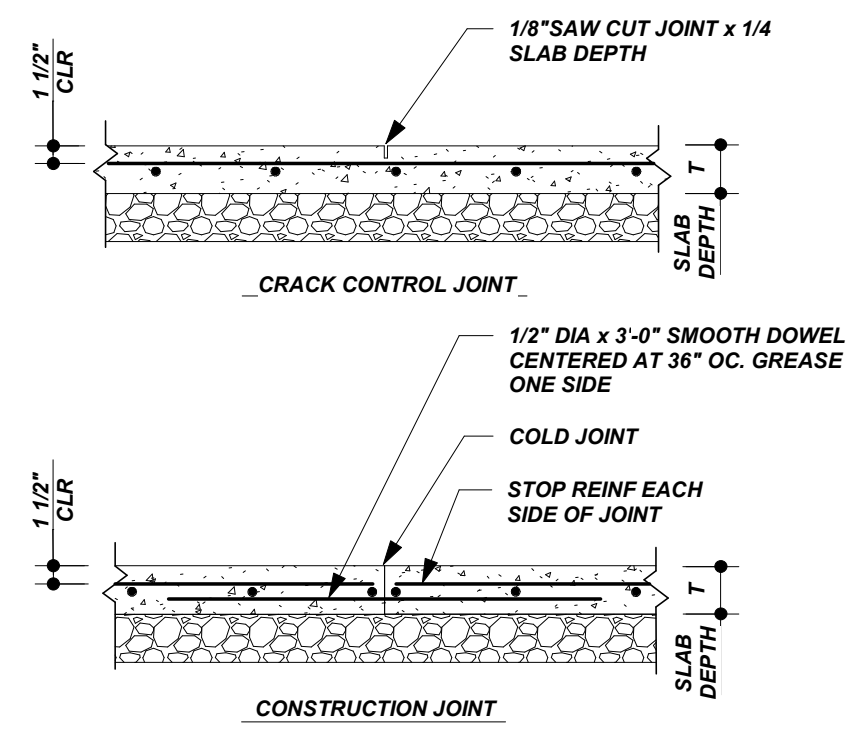
9 TYPICAL PATIO TURNOWN SLAB

S-300 3/4" = 1'-0"

CMU LAP SPlice SCHEDULE (F _m =1500PSI/F _y =60 KSI)						
BAR SIZE	LAP			CLEAR COVER		
	6" CMU	8" CMU	12" CMU	6" CMU	8" CMU	12" CMU
#3	15"	15"	15"	2.625"	3.625"	5.625"
#4	20"	20"	20"	2.5625"	3.563"	5.625"
#5	31"	25"	25"	2.500"	3.500"	5.500"
#6	60"	43"	39"	2.4375"	3.438"	5.438"
#7	84"	59"	46"	2.375"	3.375"	5.375"
#8	131"	91"	60"	2.3125"	3.313"	5.313"

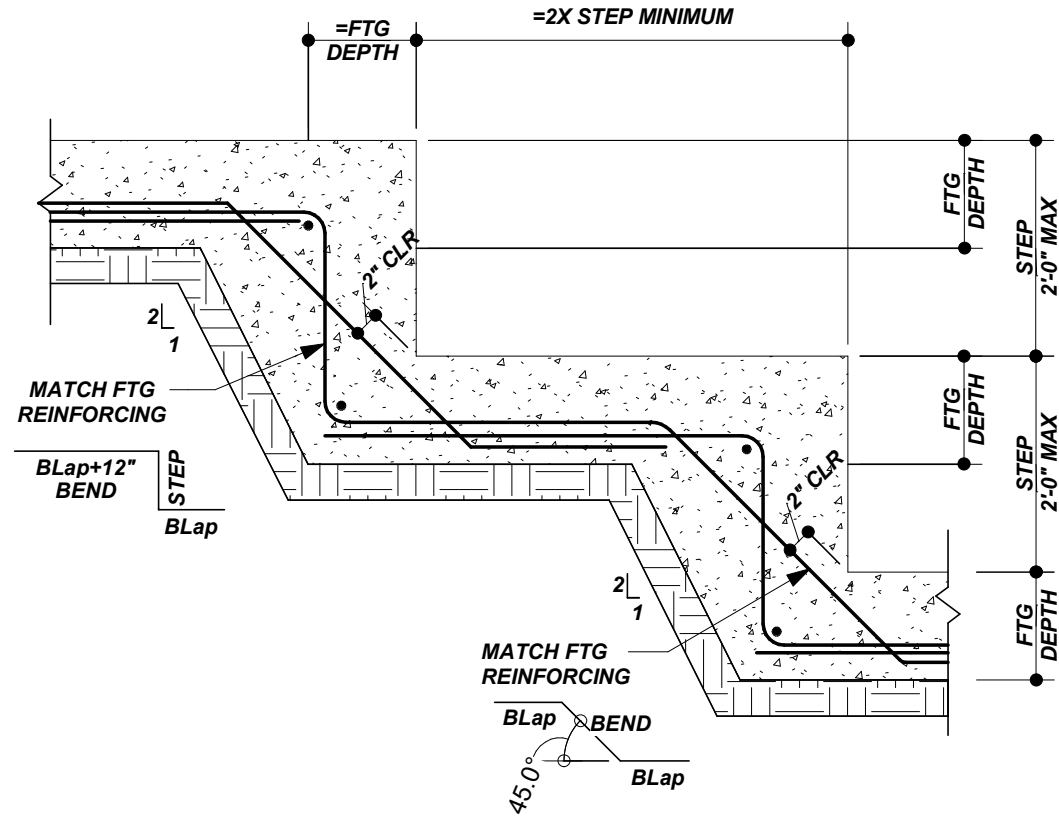
X MINIMUM CMU LAP SPLICES

S-300 3/4" = 1'-0"



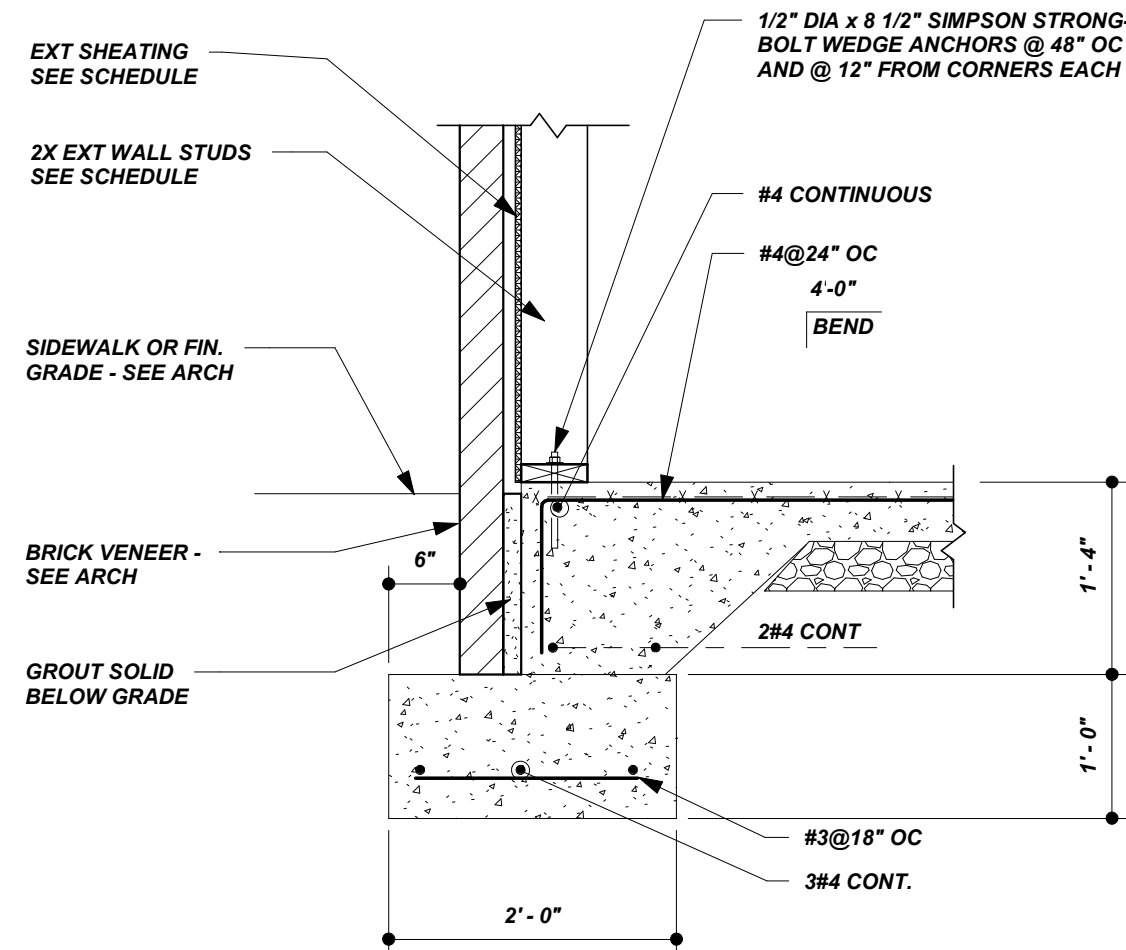
2 TYPICAL WALL FOOTING STEP

S-300 3/4" = 1'-0"



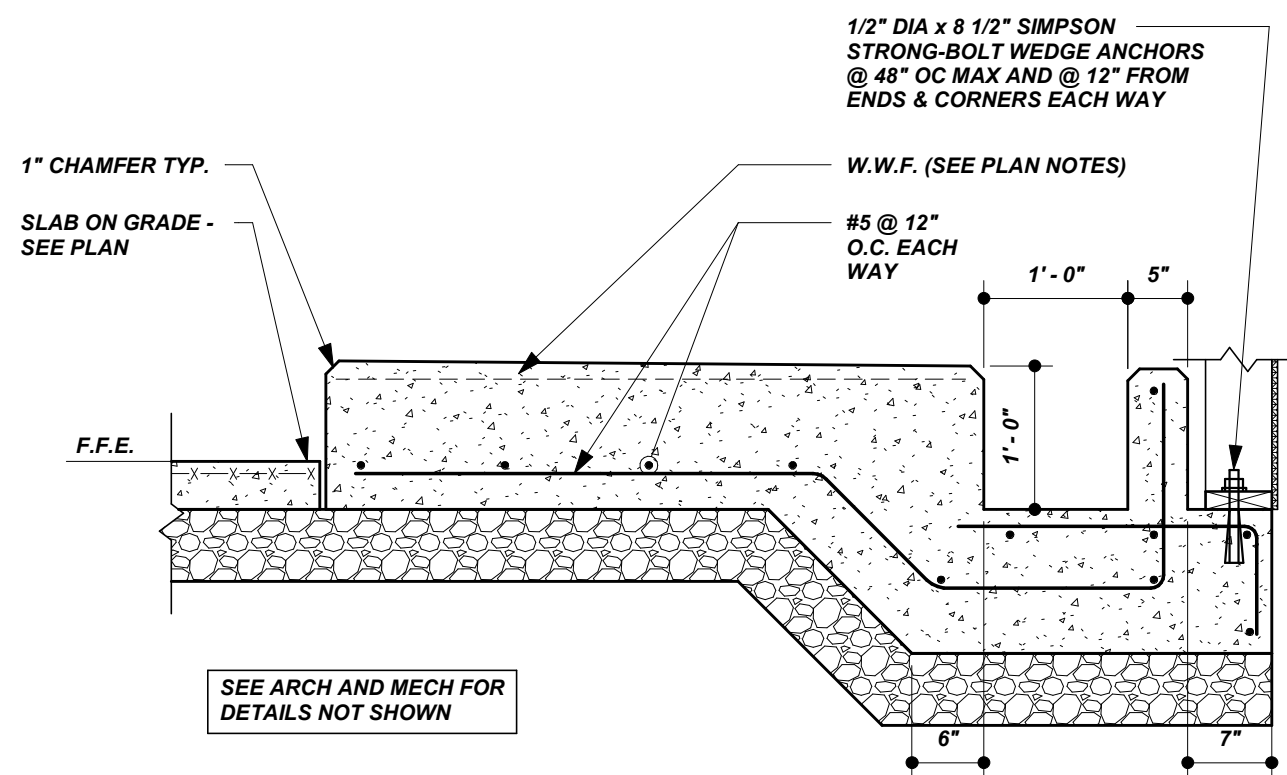
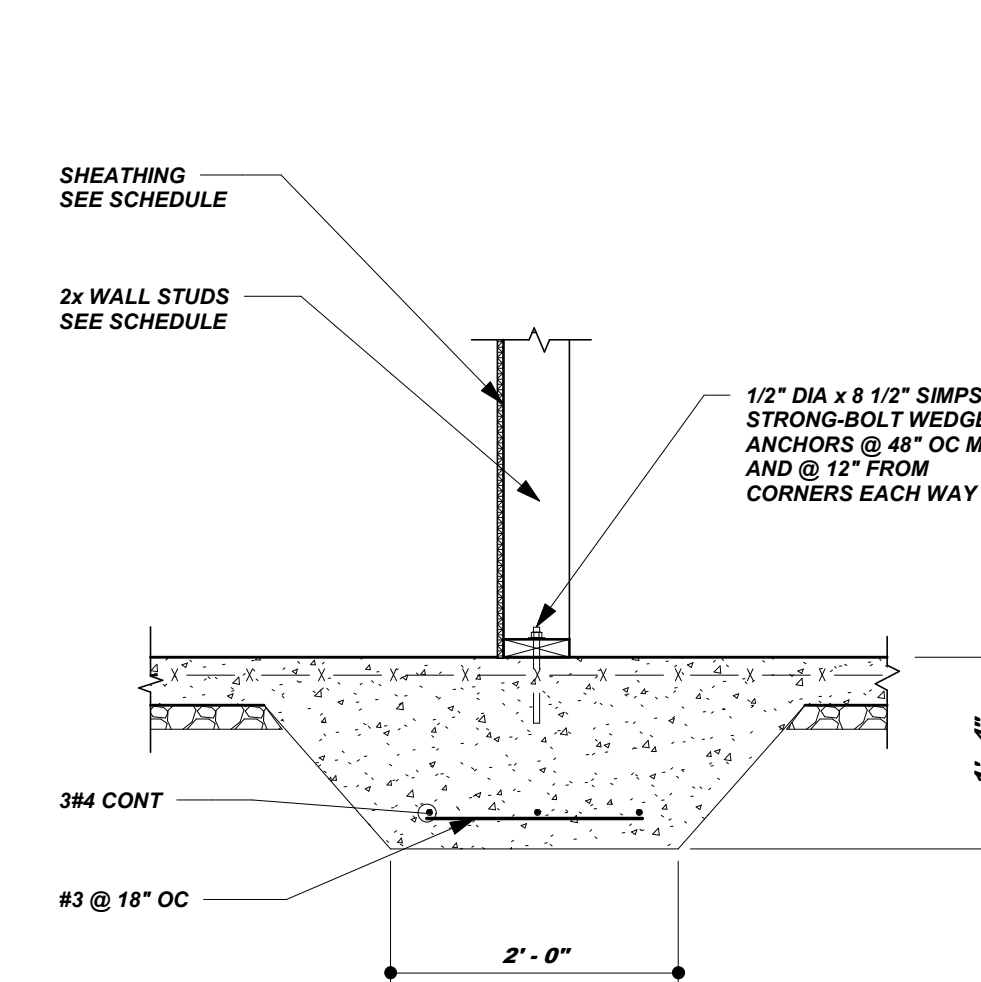
3 TYPICAL TURNOWN SLAB

S-300 3/4" = 1'-0"



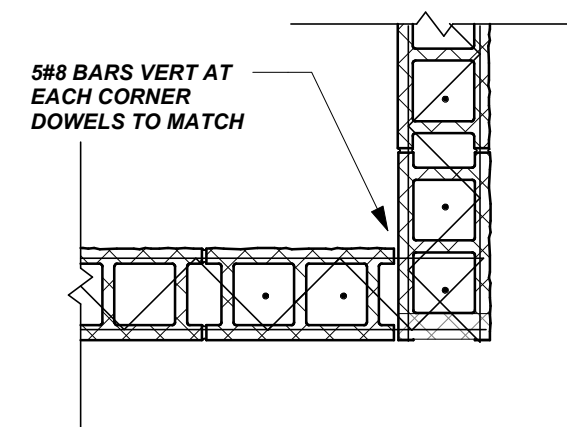
4 TYP SECTION AT THICKENED SLAB

S-300 3/4" = 1'-0"



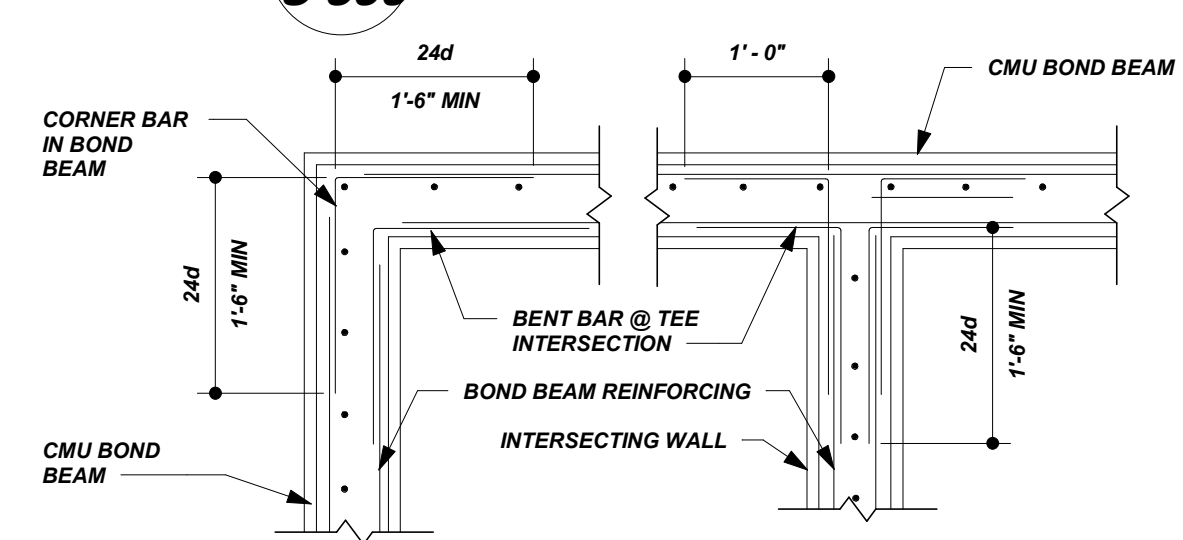
6 THICKENED SLAB AT WASHERS

S-300 3/4" = 1'-0"



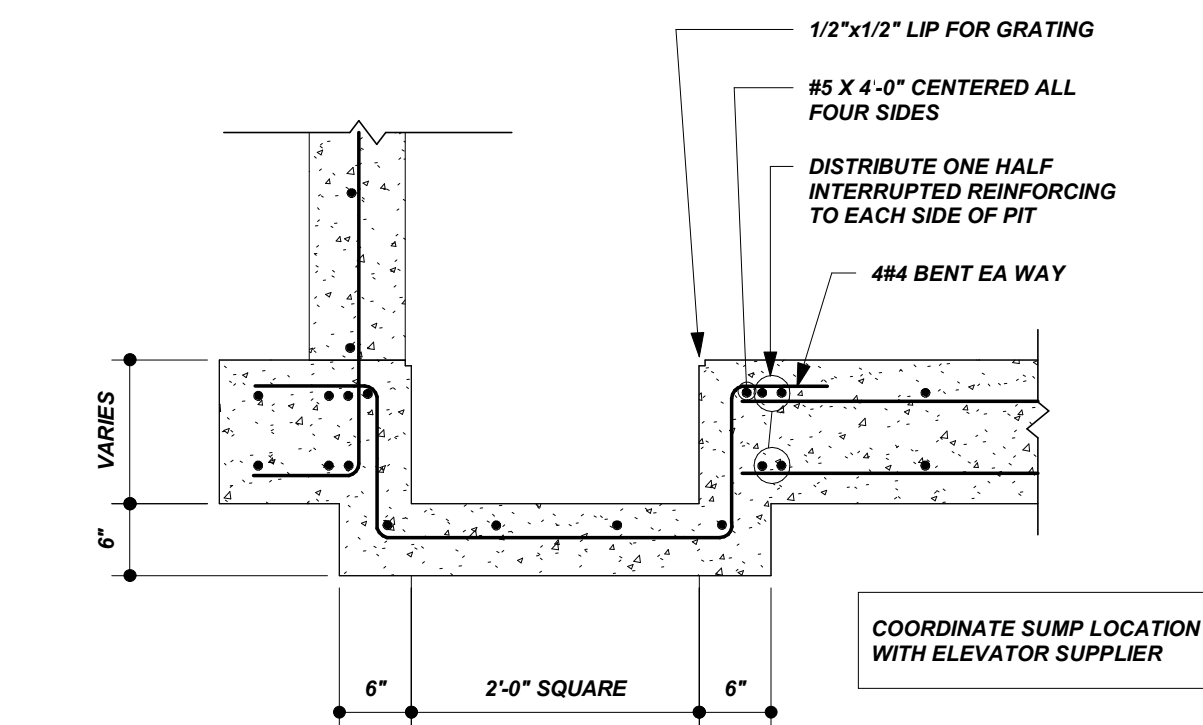
7 TYPICAL CONCRETE ELEVATOR PIT

S-300 3/4" = 1'-0"



8 TYP ELEVATOR DIVIDER BEAM

S-300 3/4" = 1'-0"



10 TYPICAL SECTION AT CMU CORNERS

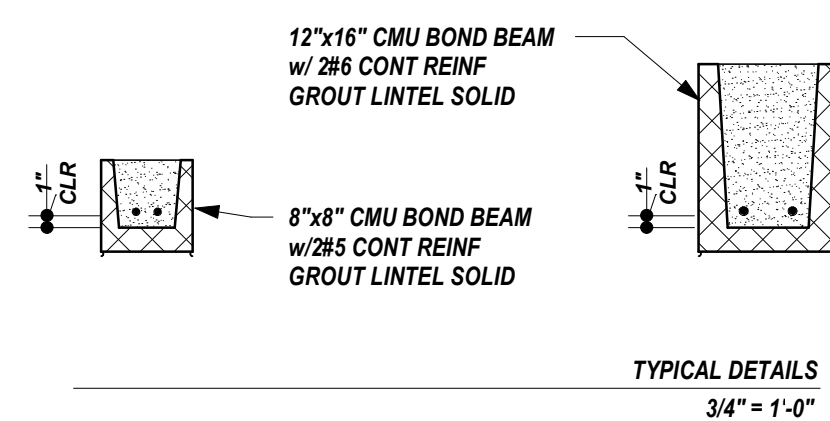
S-300 3/4" = 1'-0"

CMU MASONRY LINTEL SCHEDULE (FOR LIGHT WEIGHT = 105 PCF)					
ROUGH OPENING	DEPTH	REINFORCING			MIN. BRG.
		6" CMU	8" CMU	12" CMU	
0'-8" TO 3'-4"	8"	1-#4	1-#4	2-#5	8"
3'-4" TO 4'-8"	8"	1-#4	1-#4	2-#5	8"
4'-8" TO 6'-0"	8"	1-#4	1-#5	2-#5	8"
6'-0" TO 8'-0"	16"	1-#4	2-#5	2-#5	8"
8'-0" TO 10'-0"	16"	1-#4	2-#5	2-#5	12"
10'-0" TO 12'-0"	16"	-	-	2-#5	12"
	24"	-	2-#6	2-#6	16"

TYPICAL DETAILS
3/4" = 1'-0"

11 TYP BOND BEAM CORNER REINFORCEMENT

S-300 3/4" = 1'-0"



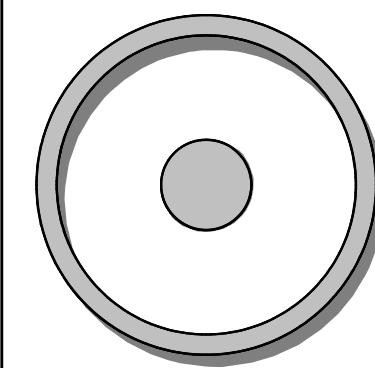
12 TYPICAL DETAIL AT ELEVATOR SUMP PIT

S-300 3/4" = 1'-0"

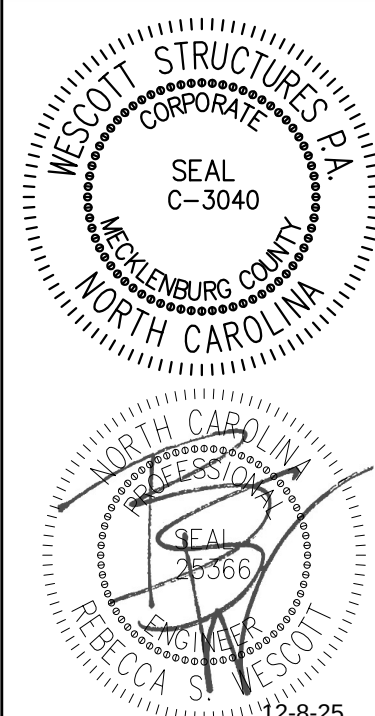
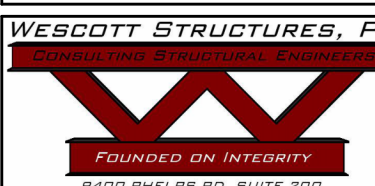
BRICK LINTEL SCHEDULE		
OPENING	SINGLE WYTHE WALLS (LOOSE)	
0'-8" TO 3'-4"	L6x3 1/2x1/4" LLH	 SINGLE BRICK WYTHE LOOSE LINTELS
3'-4" TO 5'-4"	L6x3 1/2x1/4" LLH	
5'-4" TO 7'-4"	L6x6x5/16"	
7'-4" TO 10'-0"	L6x6x5/16"	
BOLTED LINTELS	L6x6x5/16" CONTINUOUS TYP UNO	 BOLTED BRICK LEDGE ATTACHED LINTELS

Z BRICK LINTEL SCHEDULE

S-300 3/4" = 1'-0"



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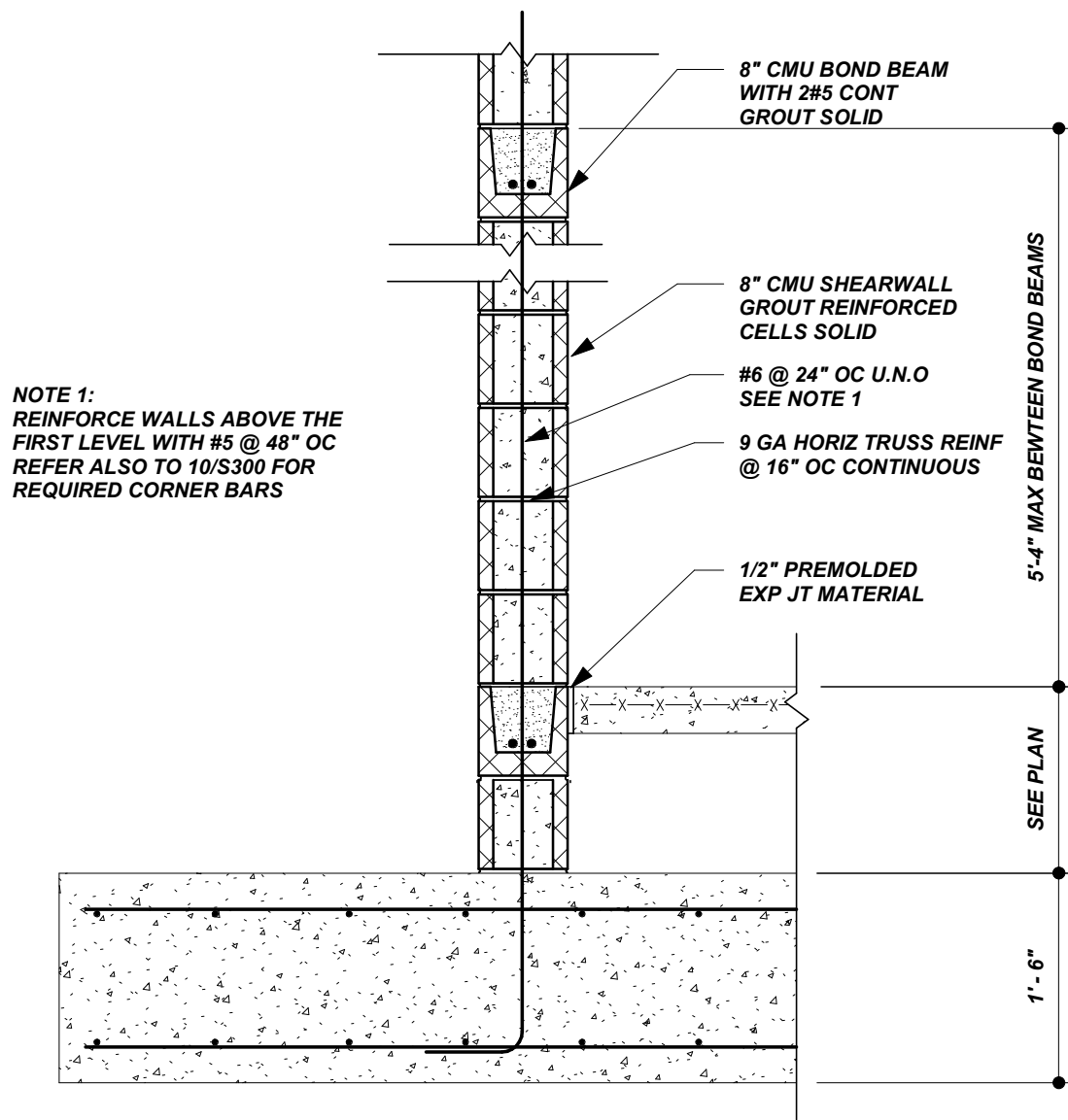
revisions:		
Revision	Date	Description

drawn by:
CADD
checked by:
RSW
project no:
WesS #25.006

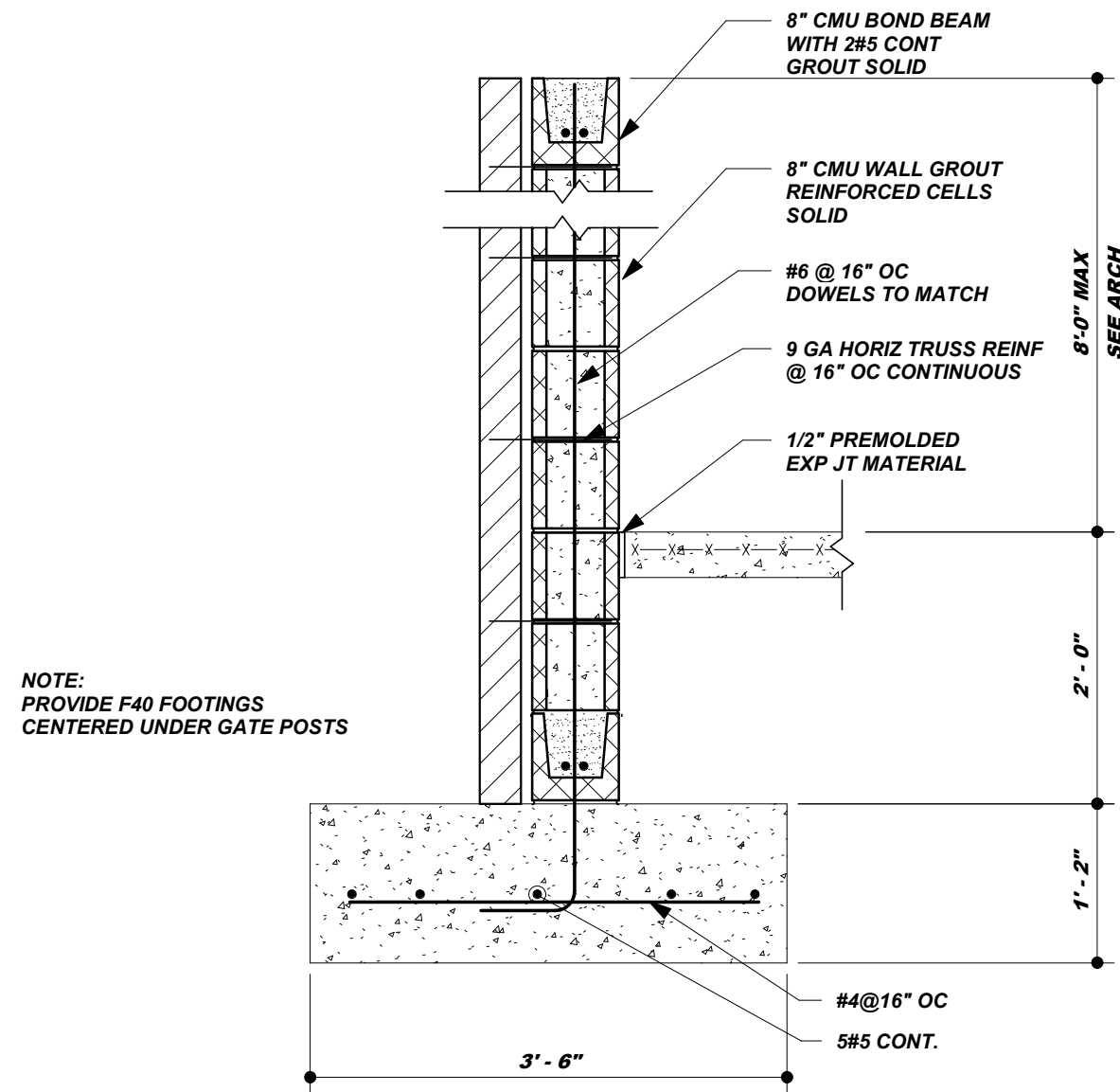
TYPICAL FOUNDATION SECTIONS

S-300

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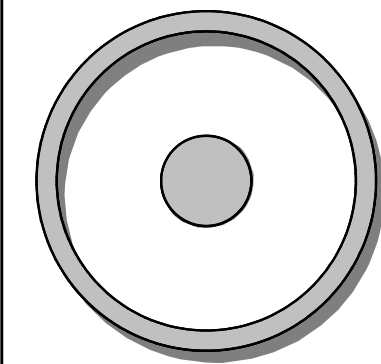


1 **TYPICAL CMU WALL TO FOUNDATION**
S-301 3/4" = 1'-0"

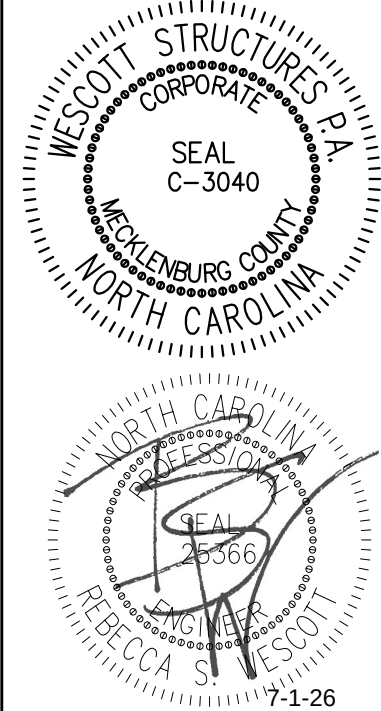


2 **TYPICAL SECTION AT DUMPSTER ENCLOSURE**
S-301 3/4" = 1'-0"

2



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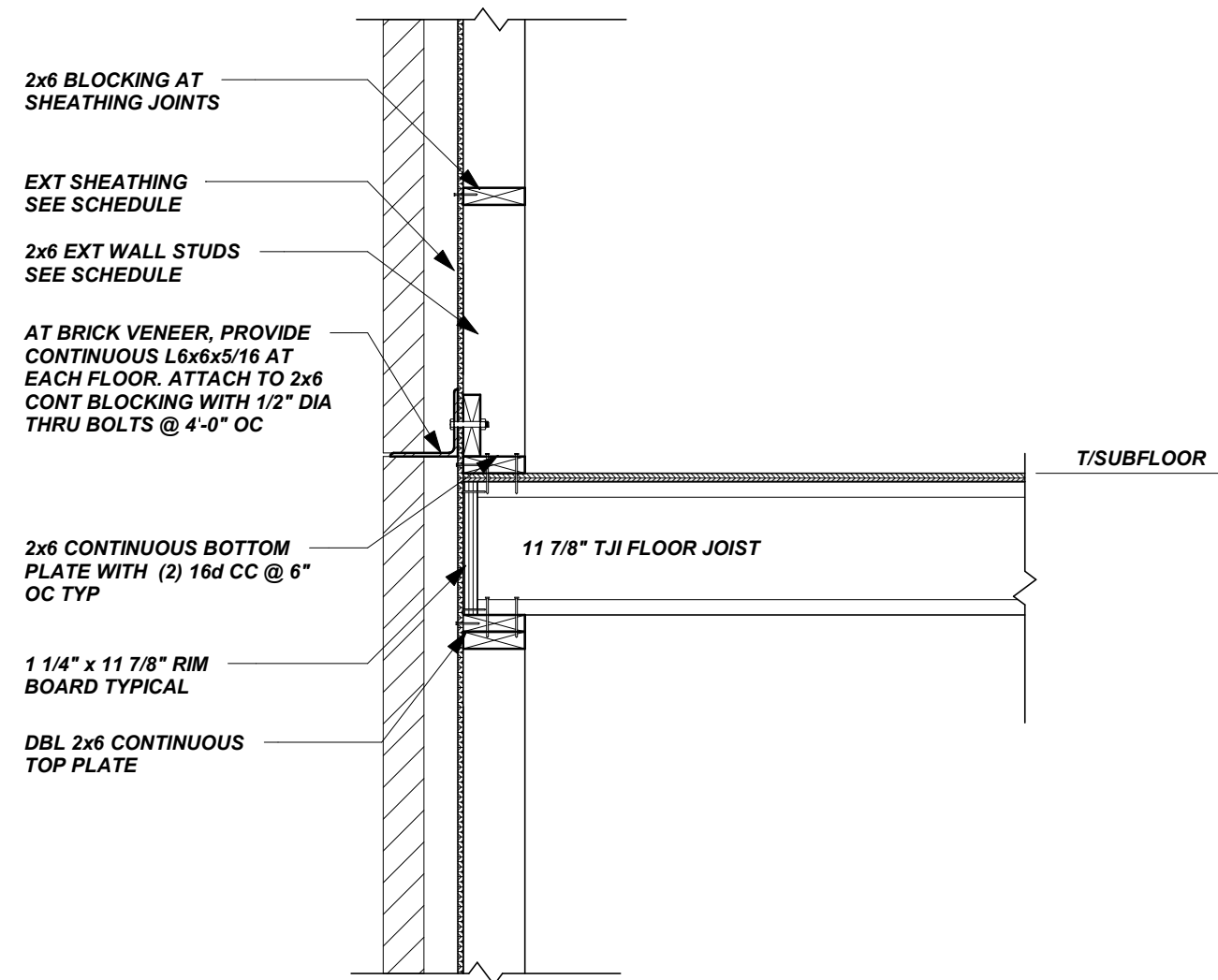
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r e v i s i o n s :		
Revision	Date	Description
2	7-1-26	DUMPSTER ENCLOSURE

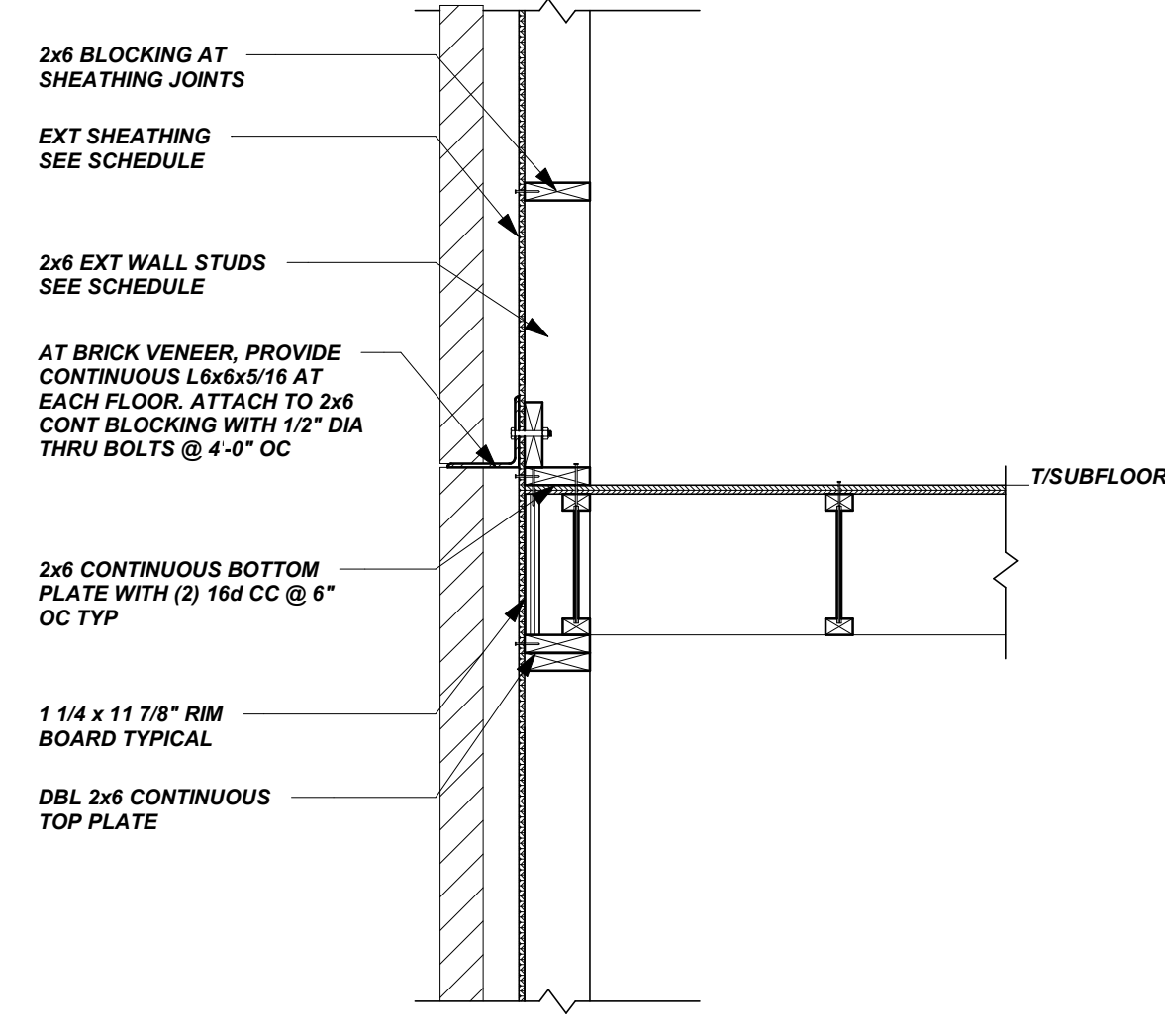
d r a w n b y :
Author
c h e c k e d b y :
Checker
p r o j e c t n o :
WesS #25.006

FOUNDATION
SECTIONS

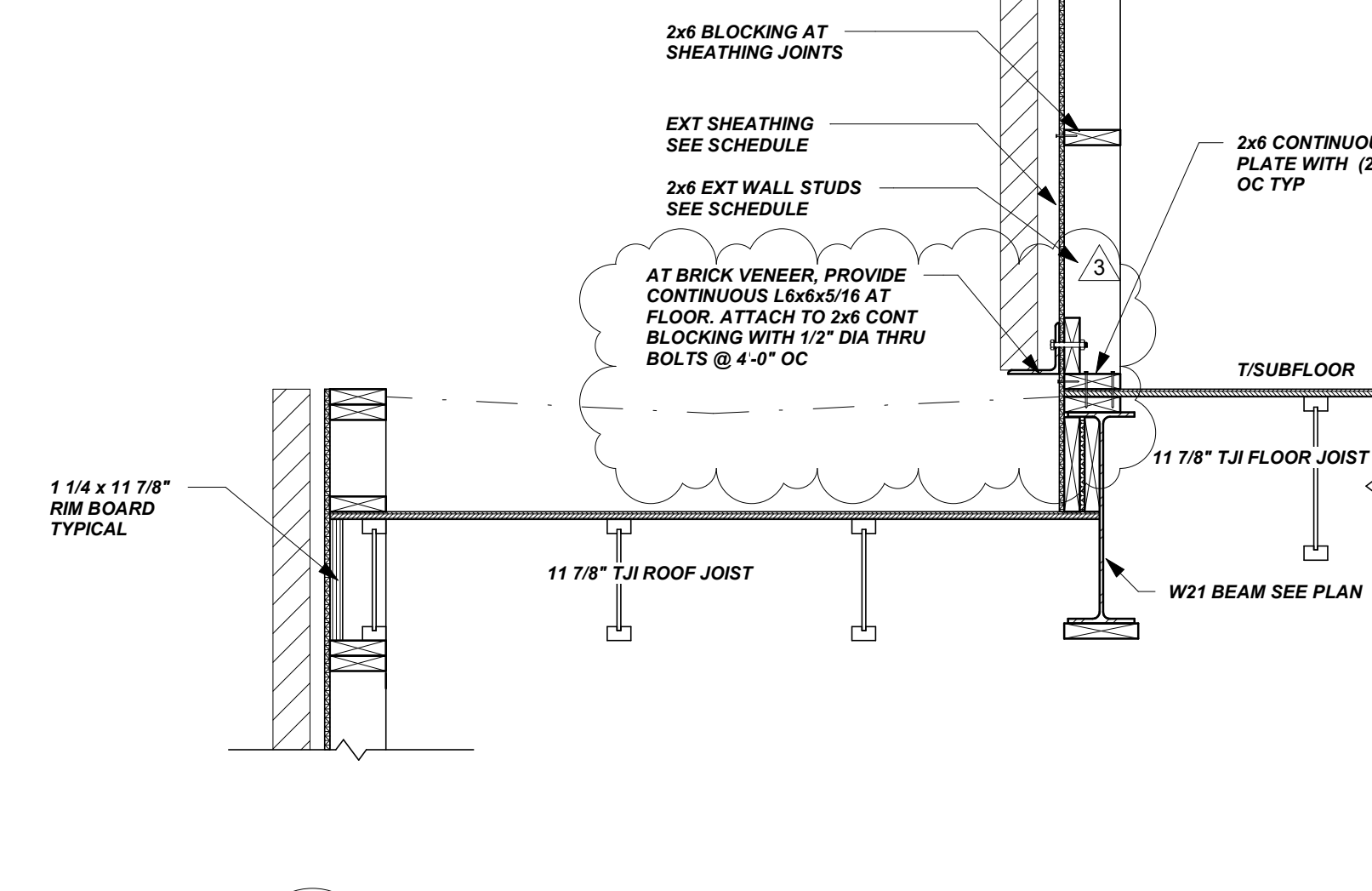
S-301



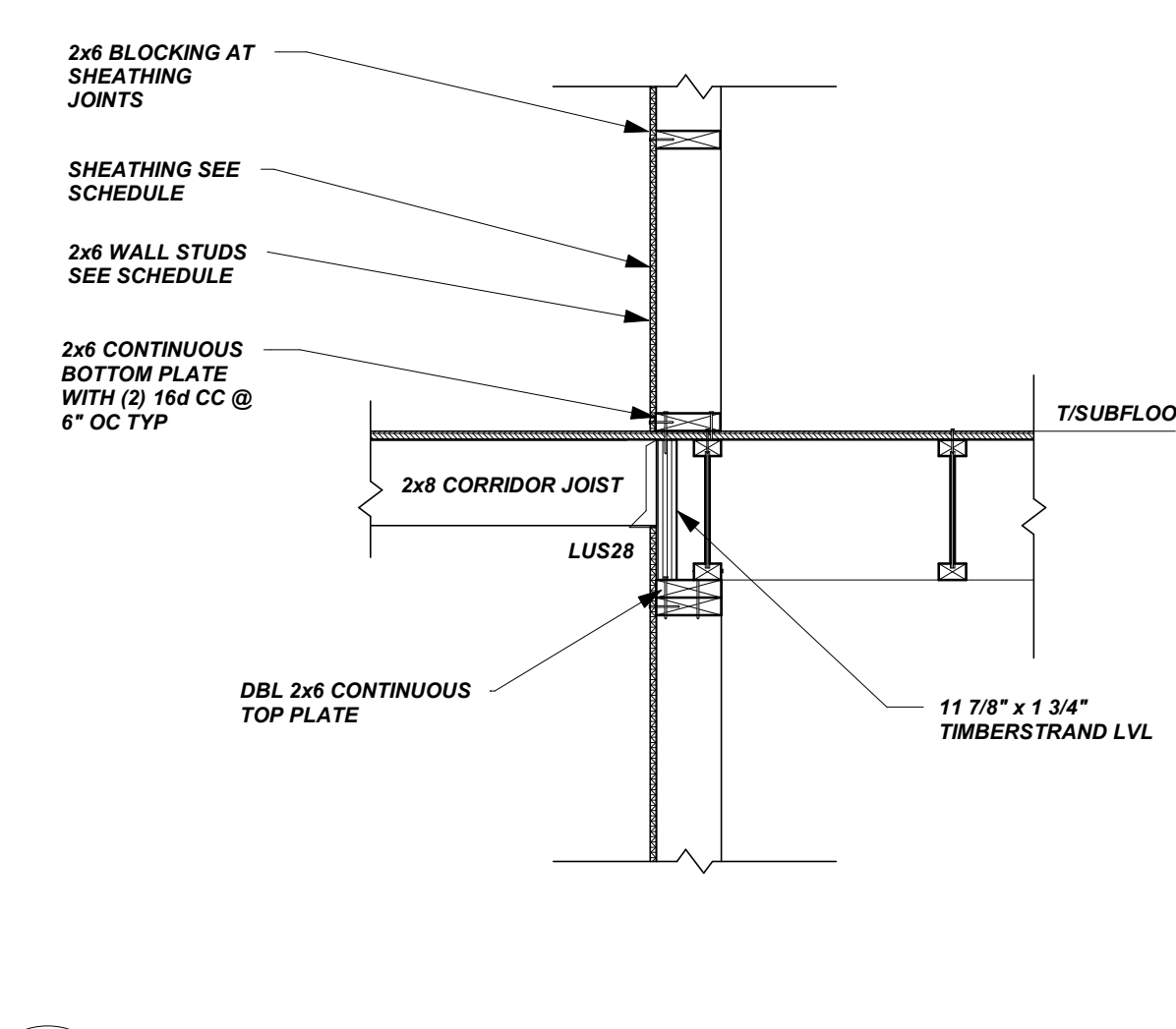
1 TYP SECTION AT JOIST BEARING WALL
S-400 3/4" = 1'-0"



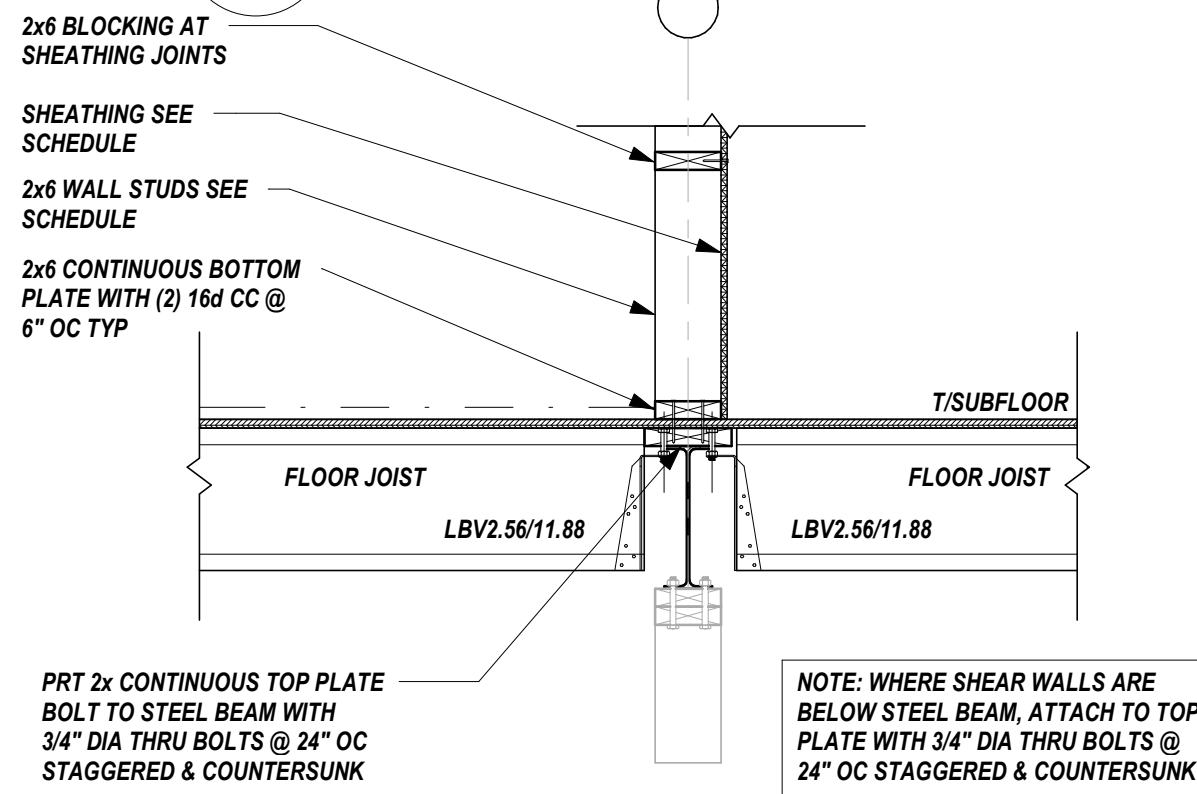
2 TYP SECTION AT END WALLS
S-400 3/4" = 1'-0"



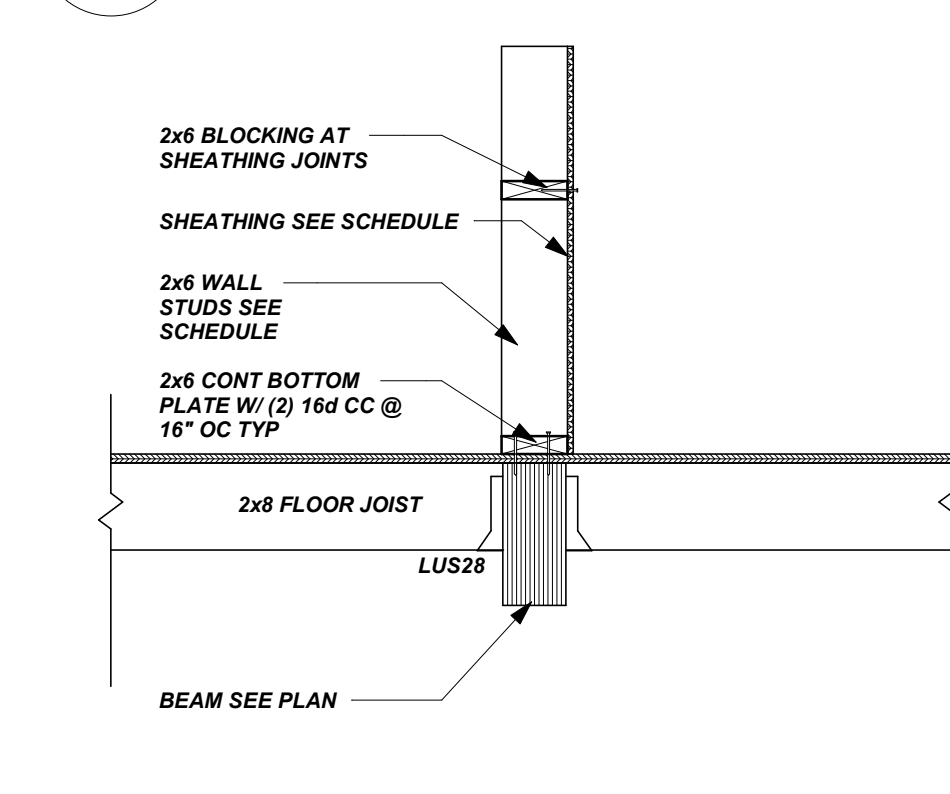
3 TYP SECTION AT LOW ROOF
S-400 3/4" = 1'-0"



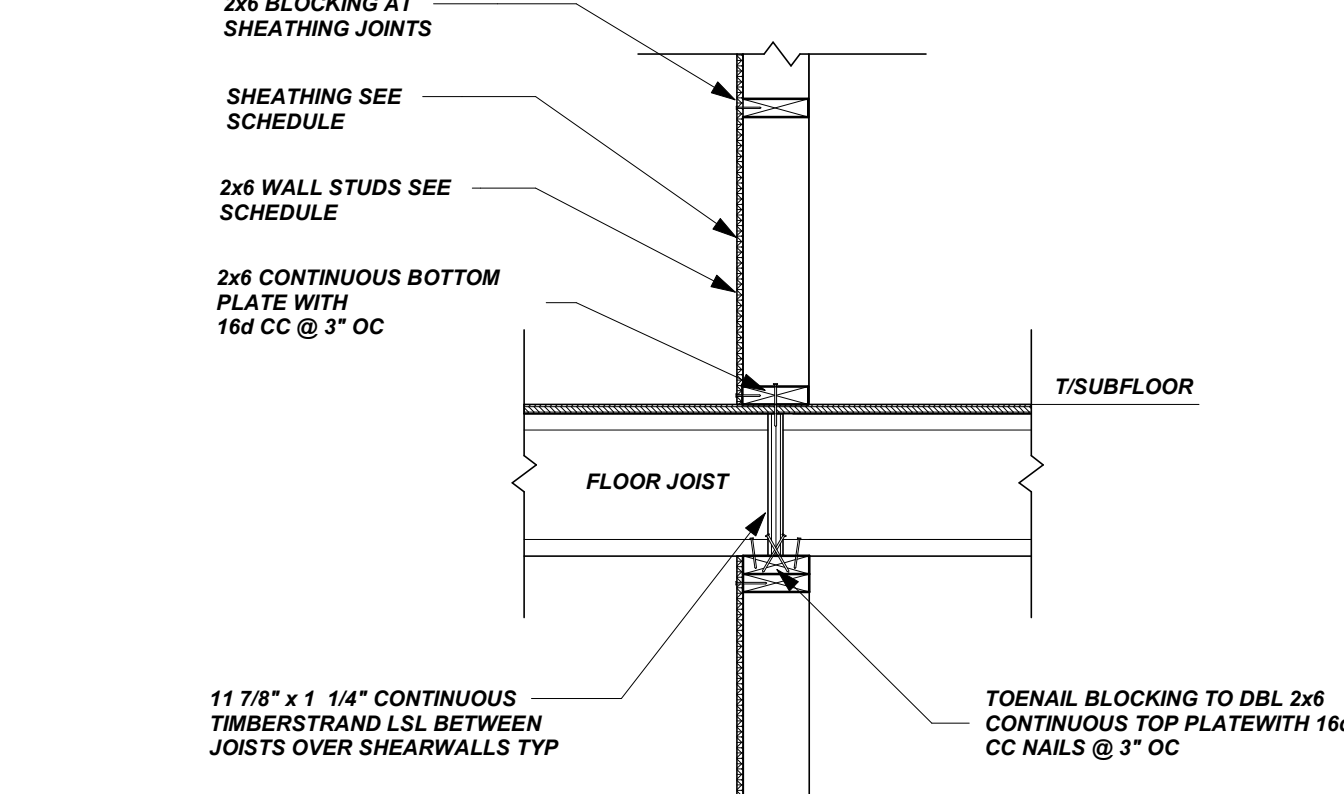
4 TYPICAL SECTION AT CORRIDOR WALLS
S-400 3/4" = 1'-0"



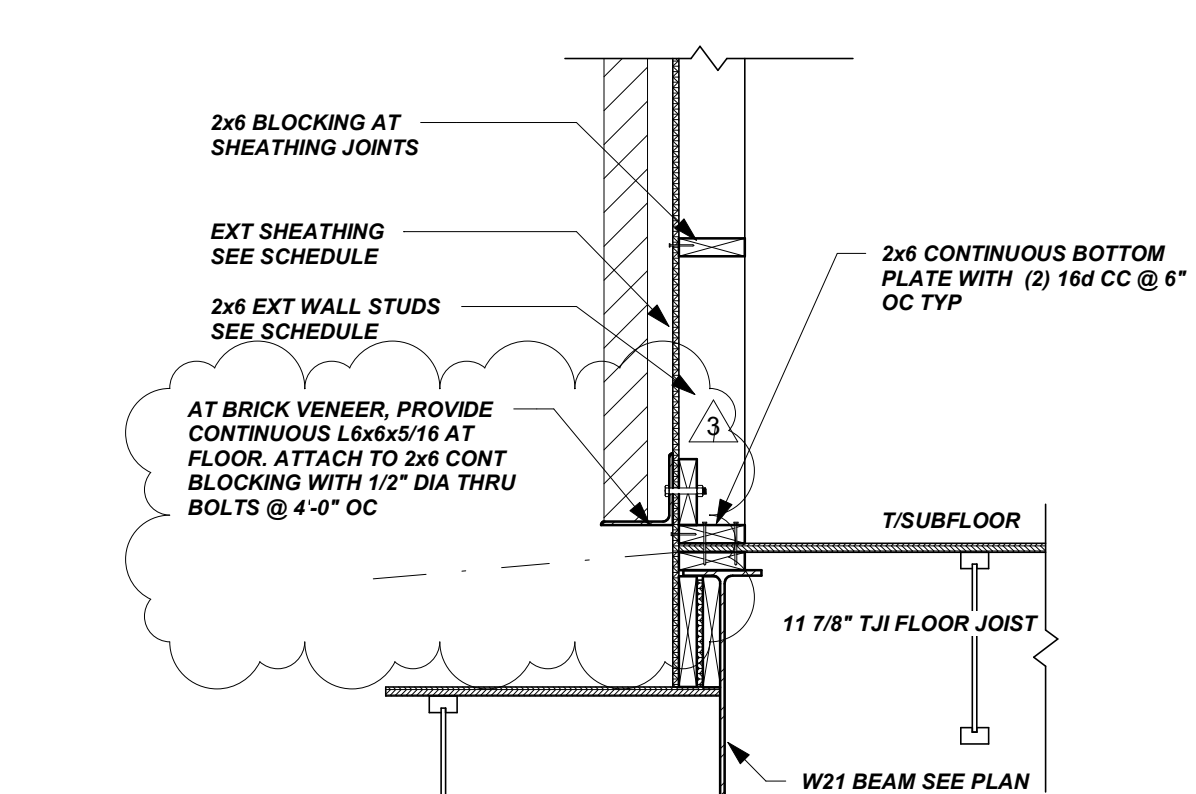
5 TYPICAL SECTION AT STEEL BEAM
S-400 3/4" = 1'-0"



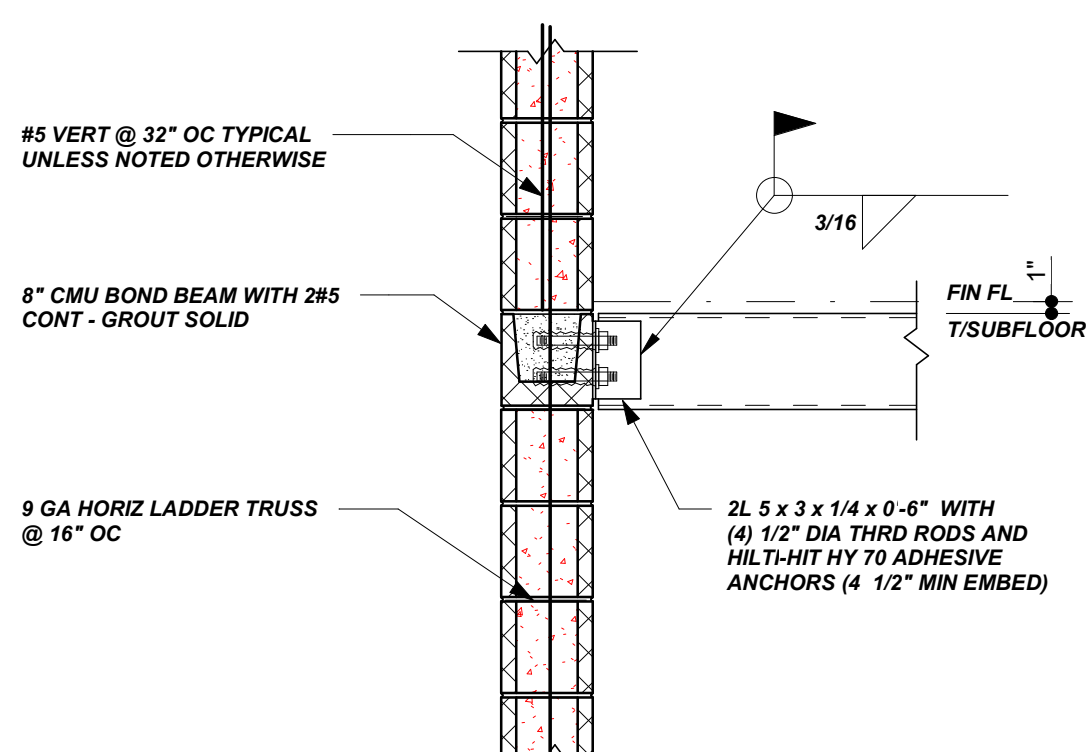
6 TYPICAL SECTION AT LVL GIRDER
S-400 3/4" = 1'-0"



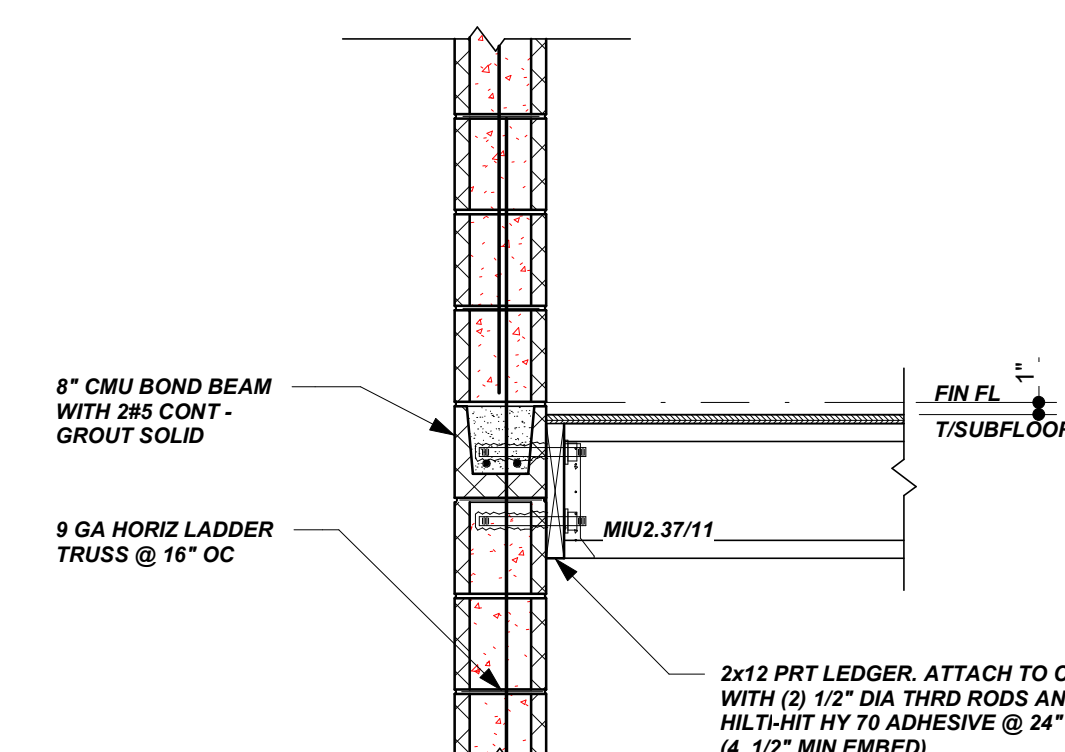
7 TYP SECTION AT SHEARWALL-TJI BEARING
S-400 3/4" = 1'-0"



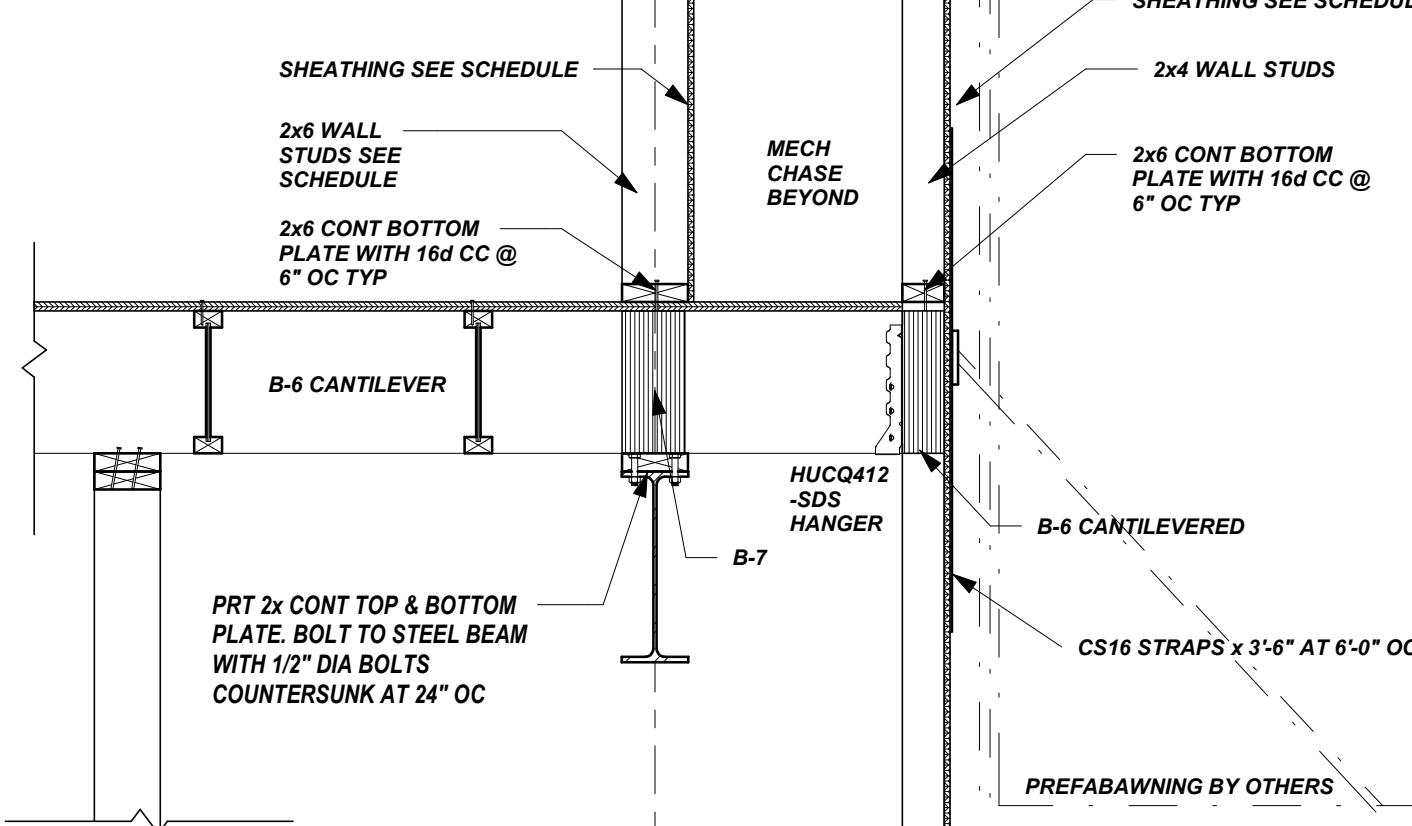
8 TYP SECTION AT BRICK LEDGE
S-400 3/4" = 1'-0"



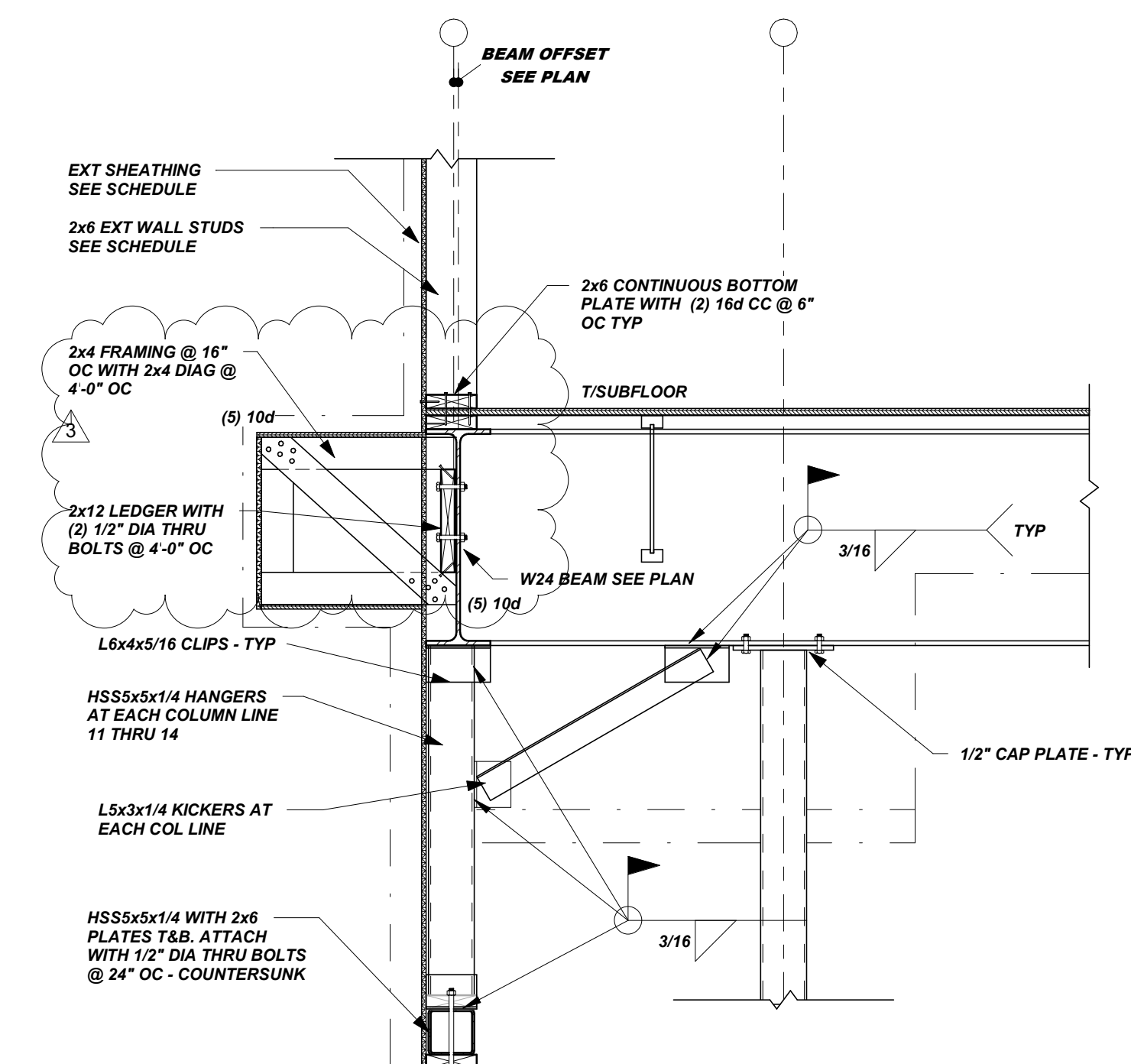
9 TYPICAL SECTION AT DIVIDER BEAM TO CMU
S-400 3/4" = 1'-0"



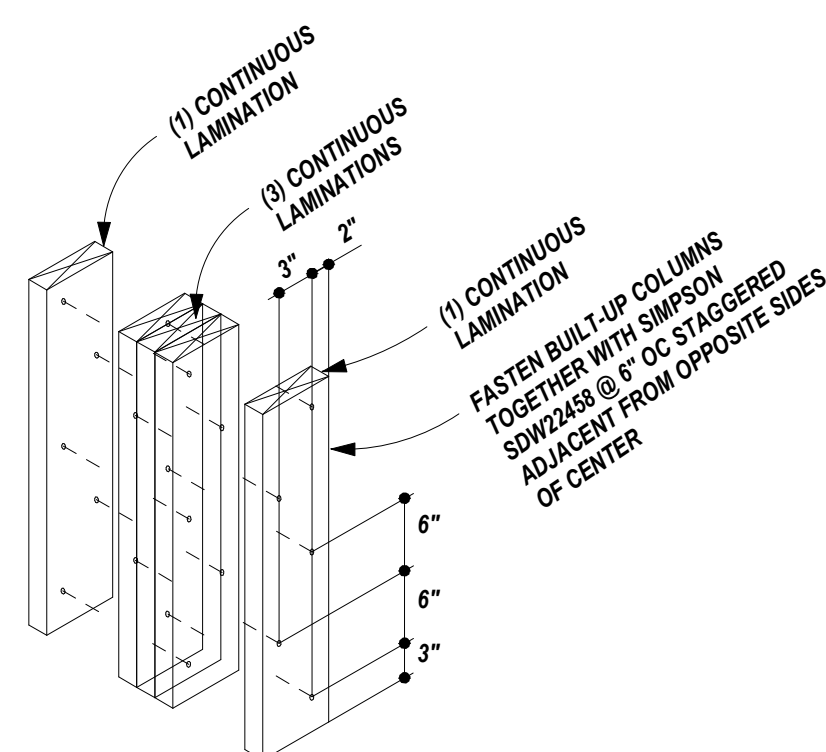
10 TYP CMU WALL W/ WOOD JOIST BEARING
S-400 3/4" = 1'-0"



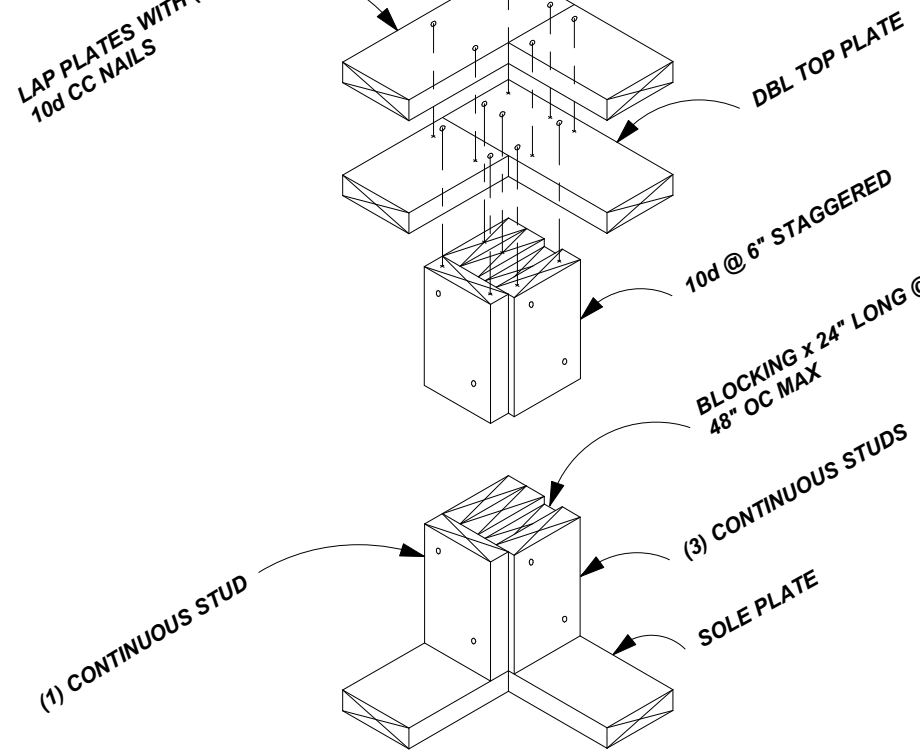
11 TYPICAL SECTION AT MECH CHASE
S-400 3/4" = 1'-0"



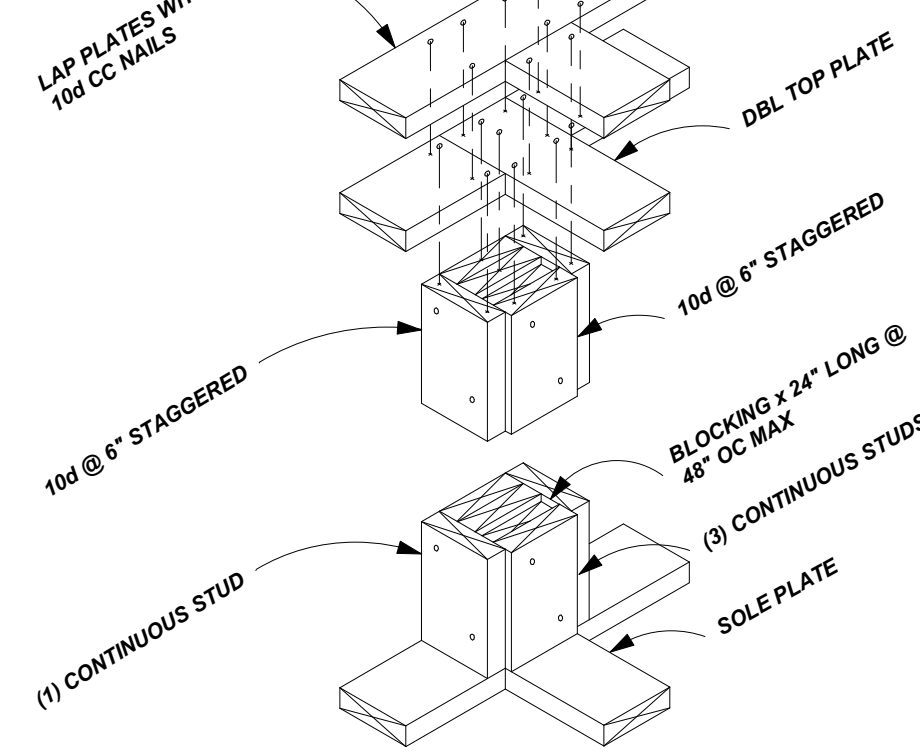
12 TYP SECTION AT DINING LOUNGE WINDOWS
S-400 3/4" = 1'-0"



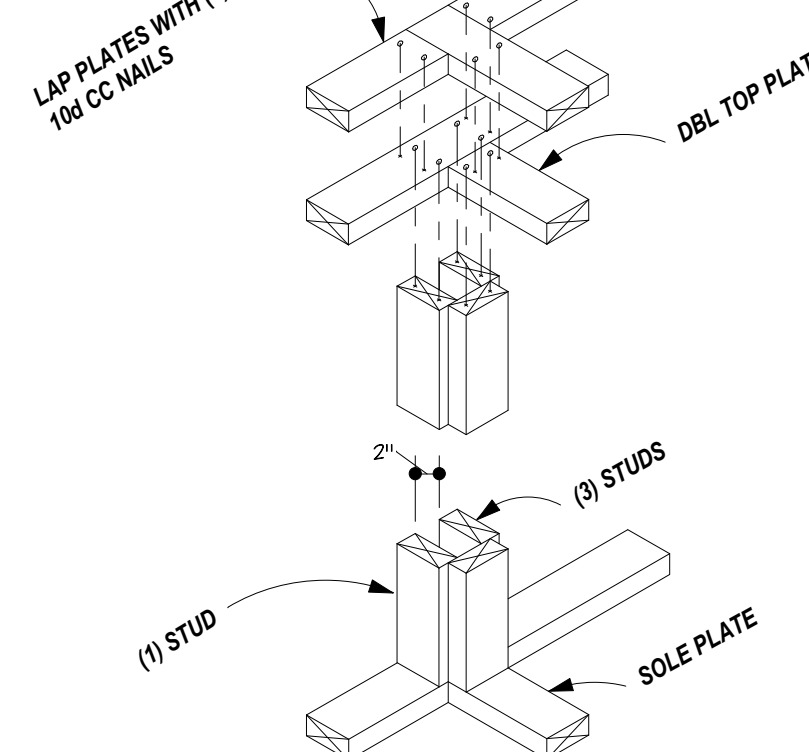
W TYPICAL 5 STUD BUILT-UP COLUMN
S-400 3/4" = 1'-0"



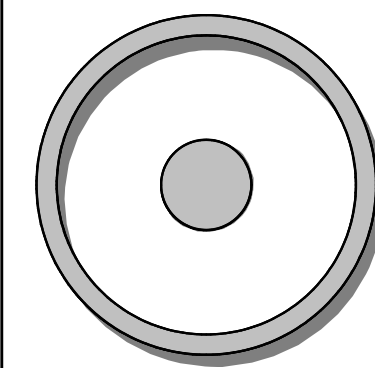
X TYPICAL 2x6 CORNER
S-400 3/4" = 1'-0"



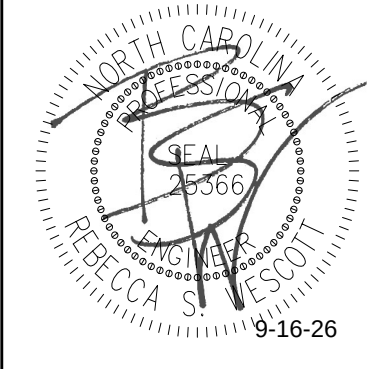
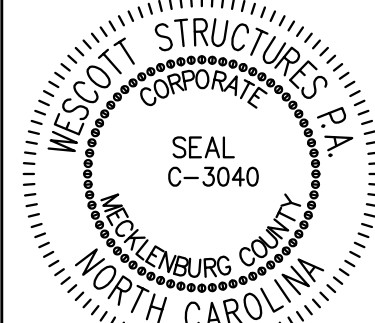
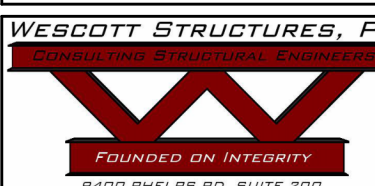
Y TYPICAL 2x6 INTERSECTION
S-400 3/4" = 1'-0"



Z NON-LOAD BEARING INTERSECTION
S-400 3/4" = 1'-0"



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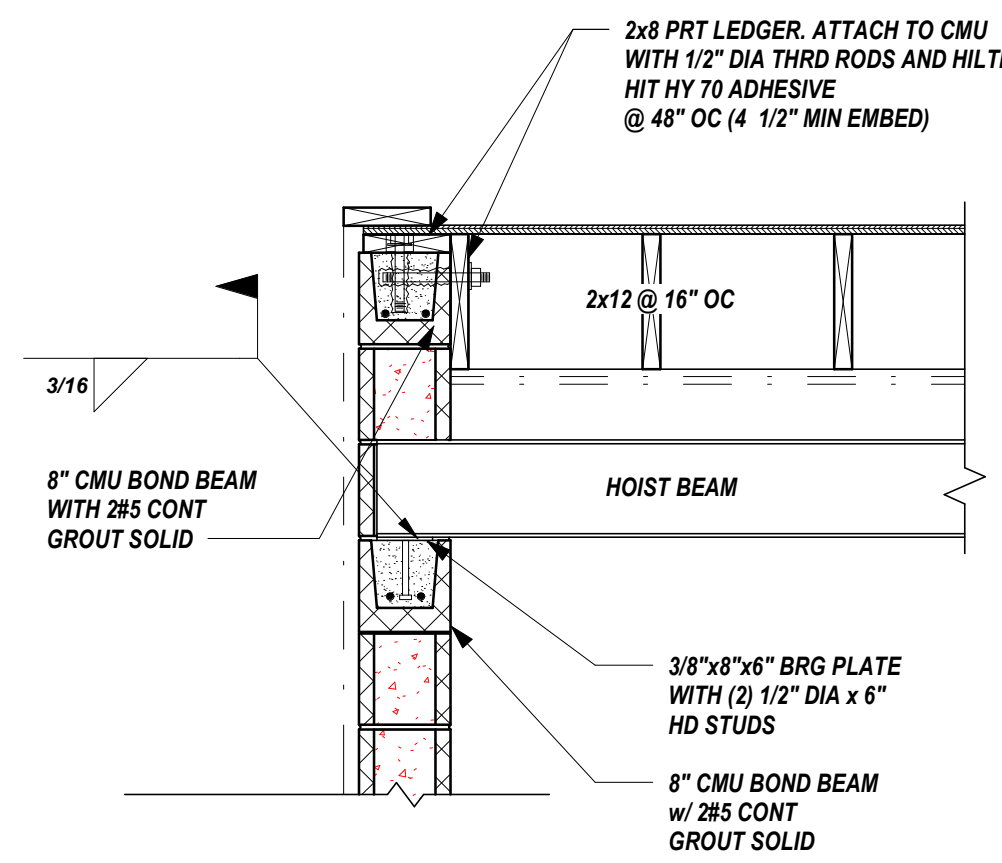
revisions:		
Revision	Date	Description
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3	9-16-26	Clarifications

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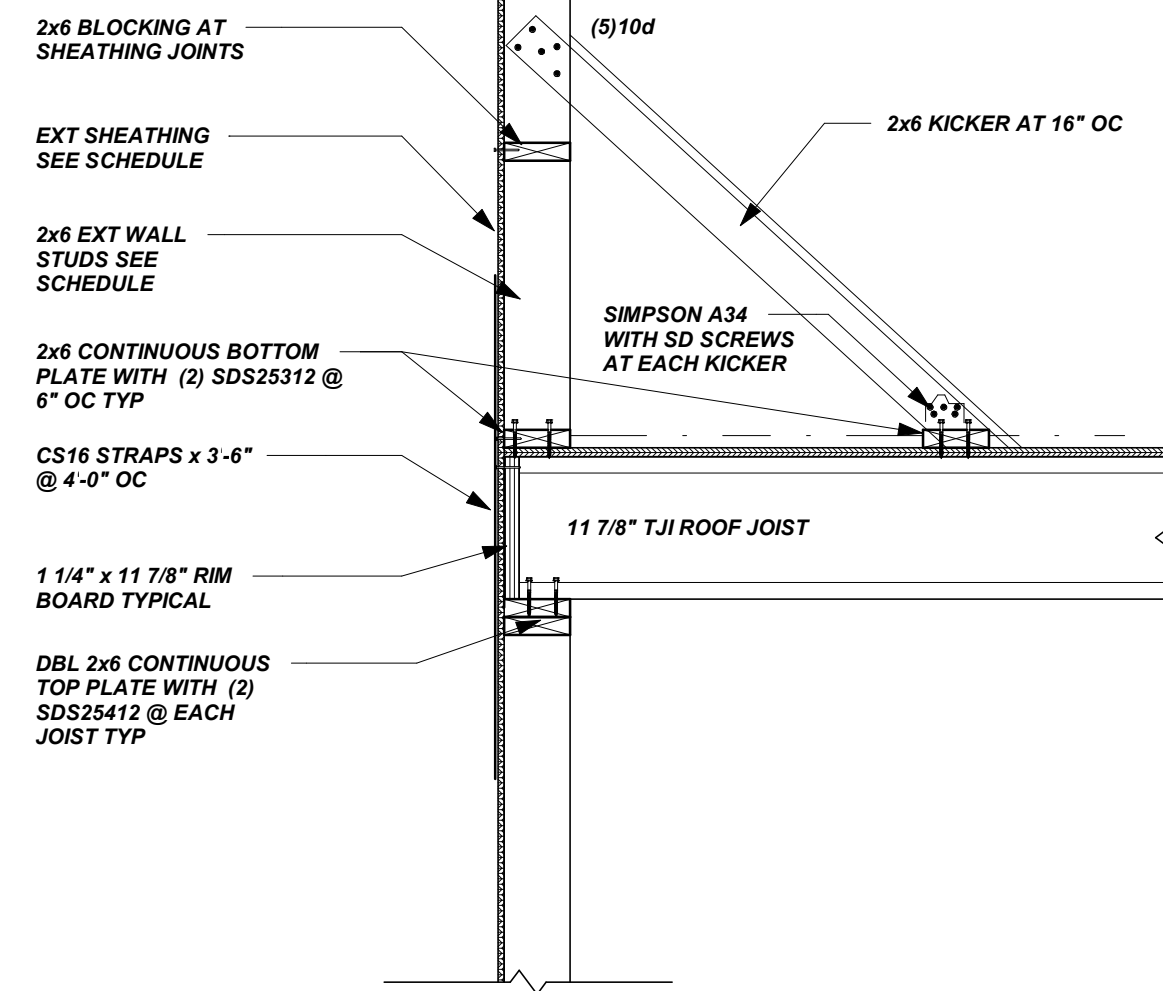
TYPICAL FRAMING SECTIONS

S-400

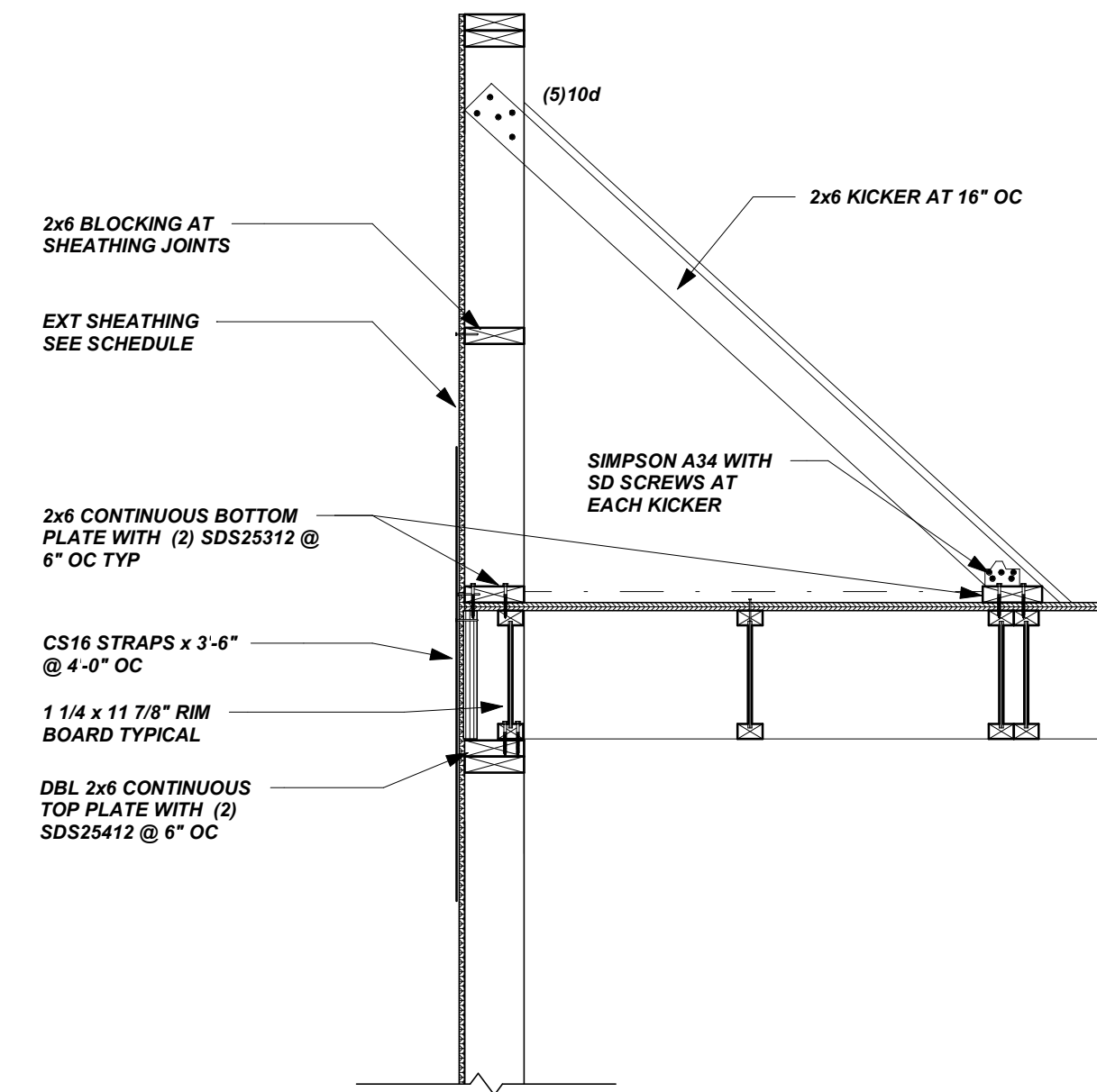
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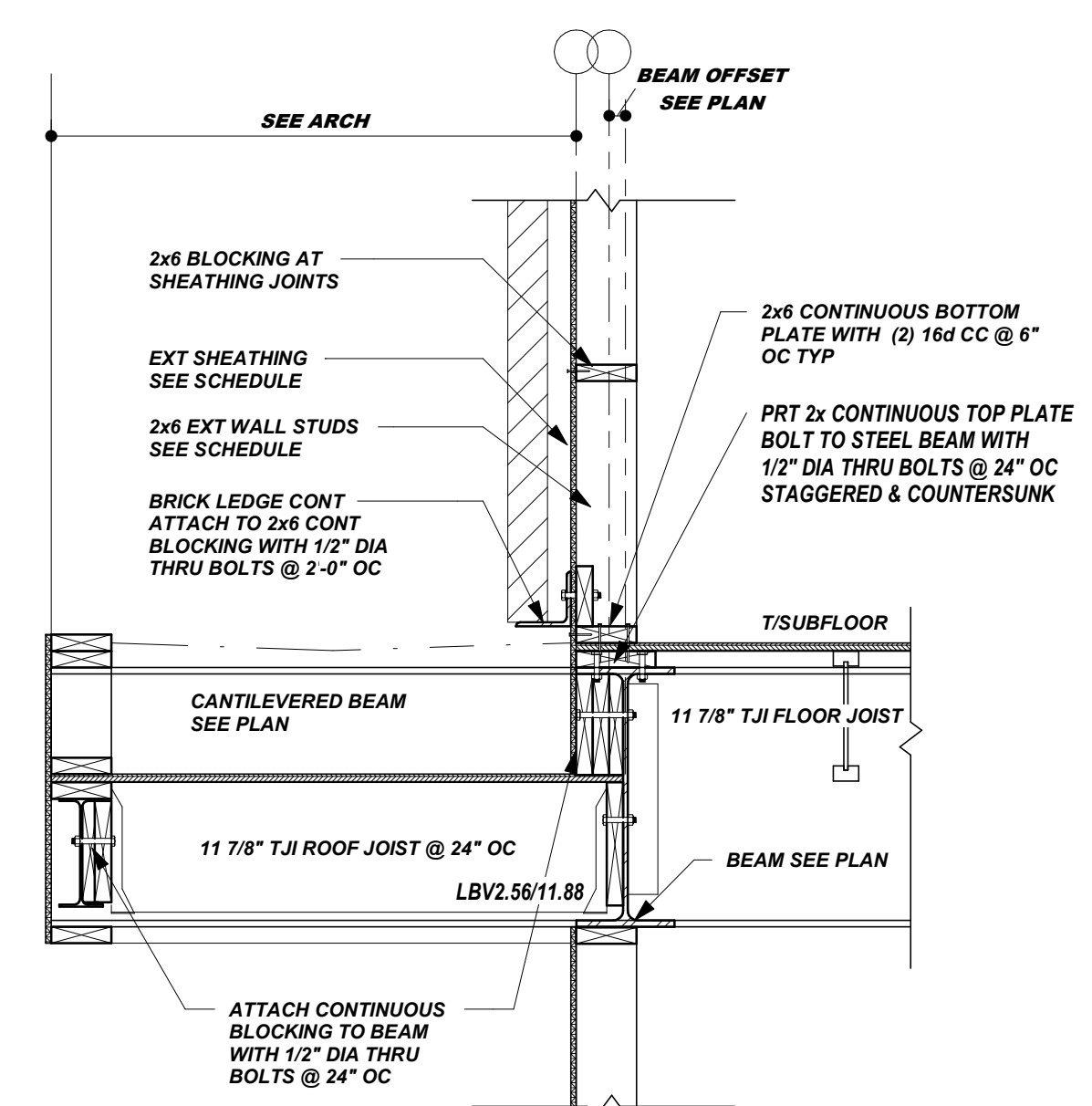
1 **TYPICAL SECTION AT ELEVATOR HOIST BEAM**
S-401 3/4" = 1'-0"



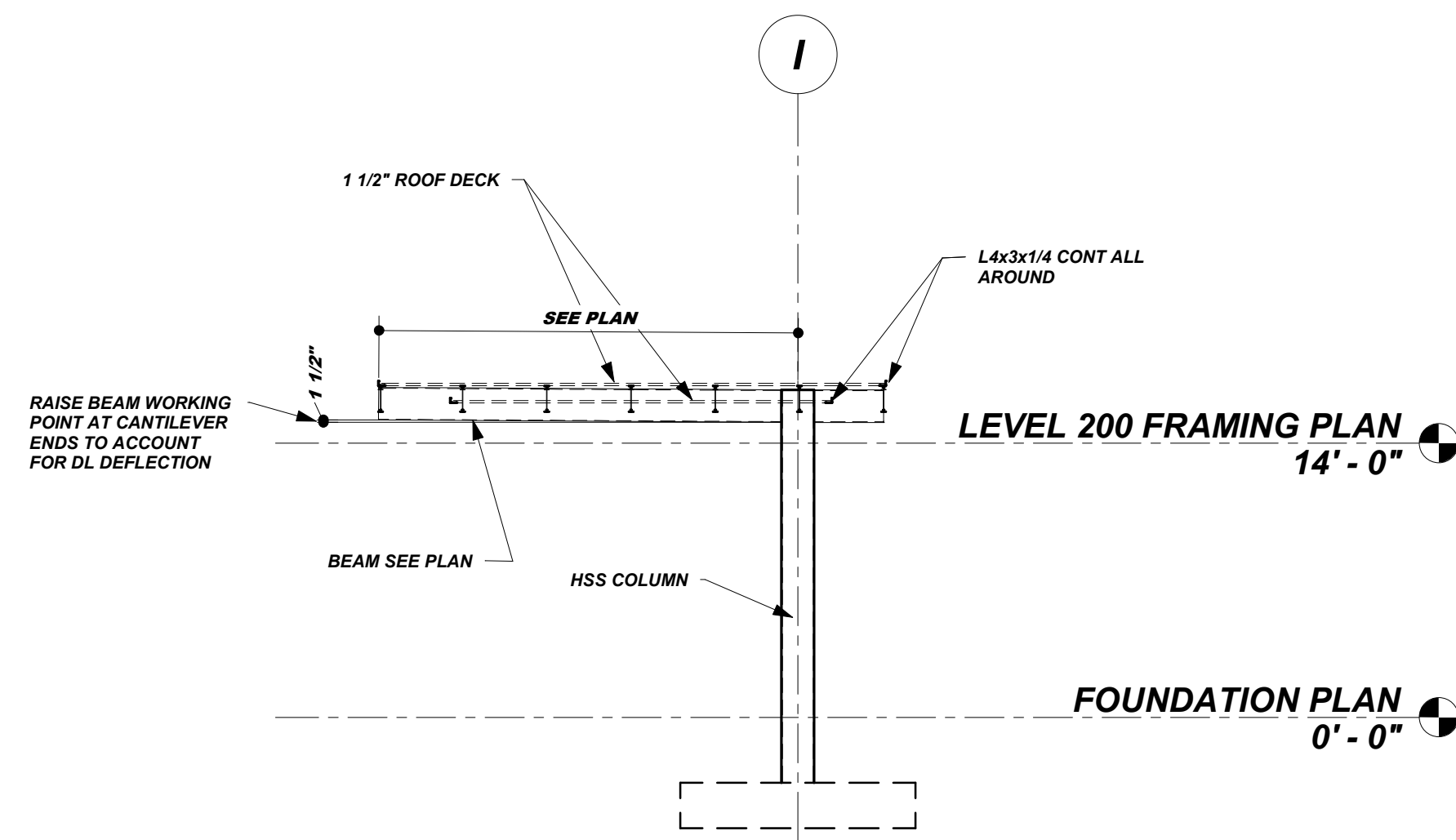
2 **TYP SECTION AT ROOF PARAPET**
S-401 3/4" = 1'-0"



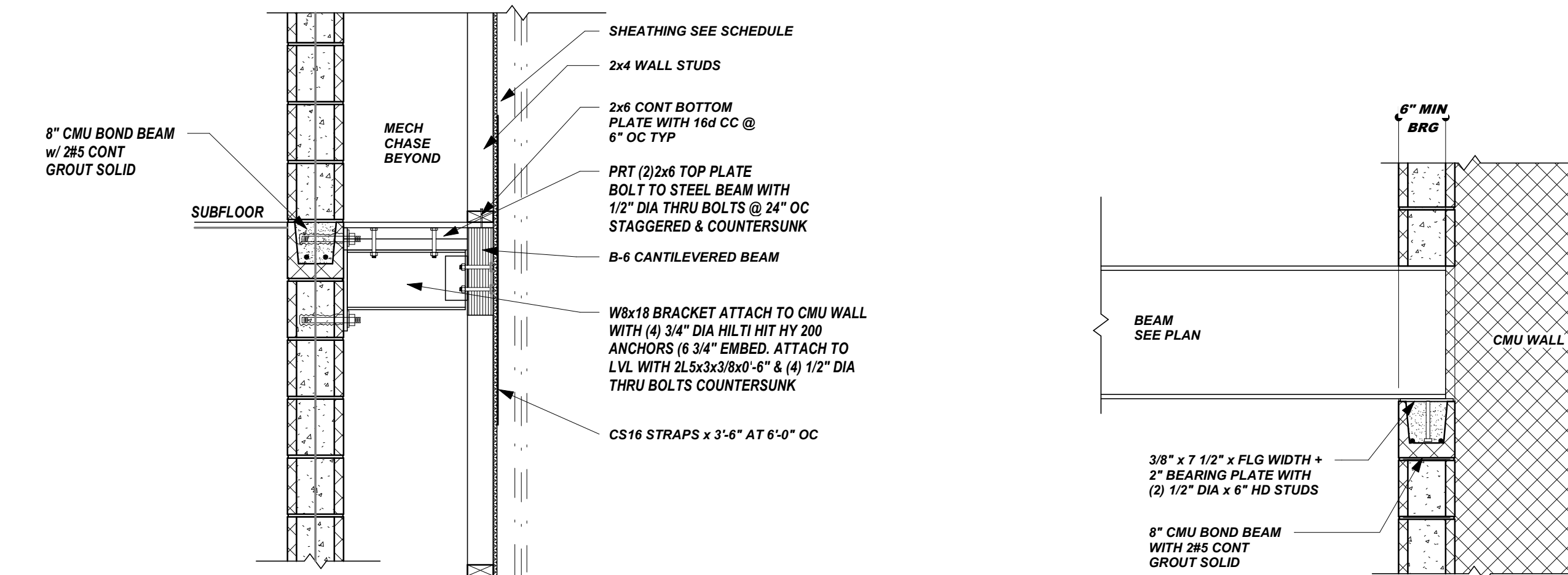
3 **TYP SECTION AT ROOF SIDE PARAPET**
S-401 3/4" = 1'-0"



4 **SECTION AT FRONT OVERHANG**
S-401 3/4" = 1'-0"



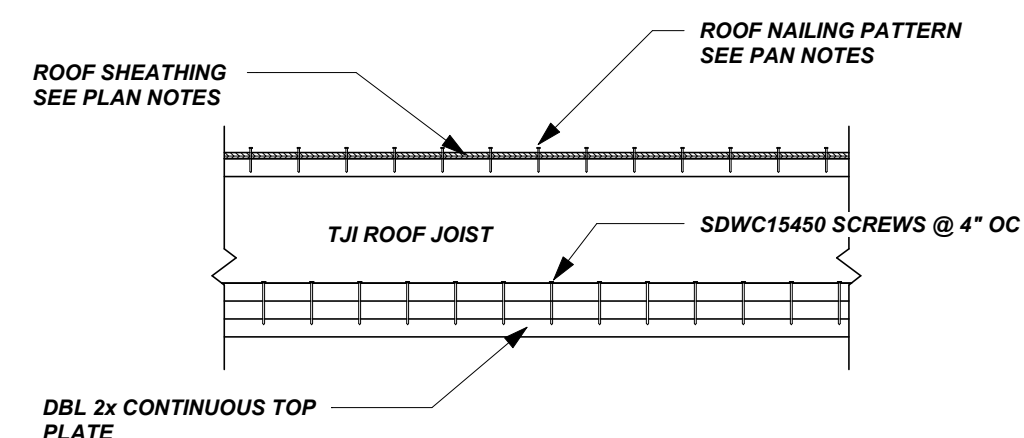
5 **SECTION THRU PORTE COCHERE**
S-401 1/8" = 1'-0"



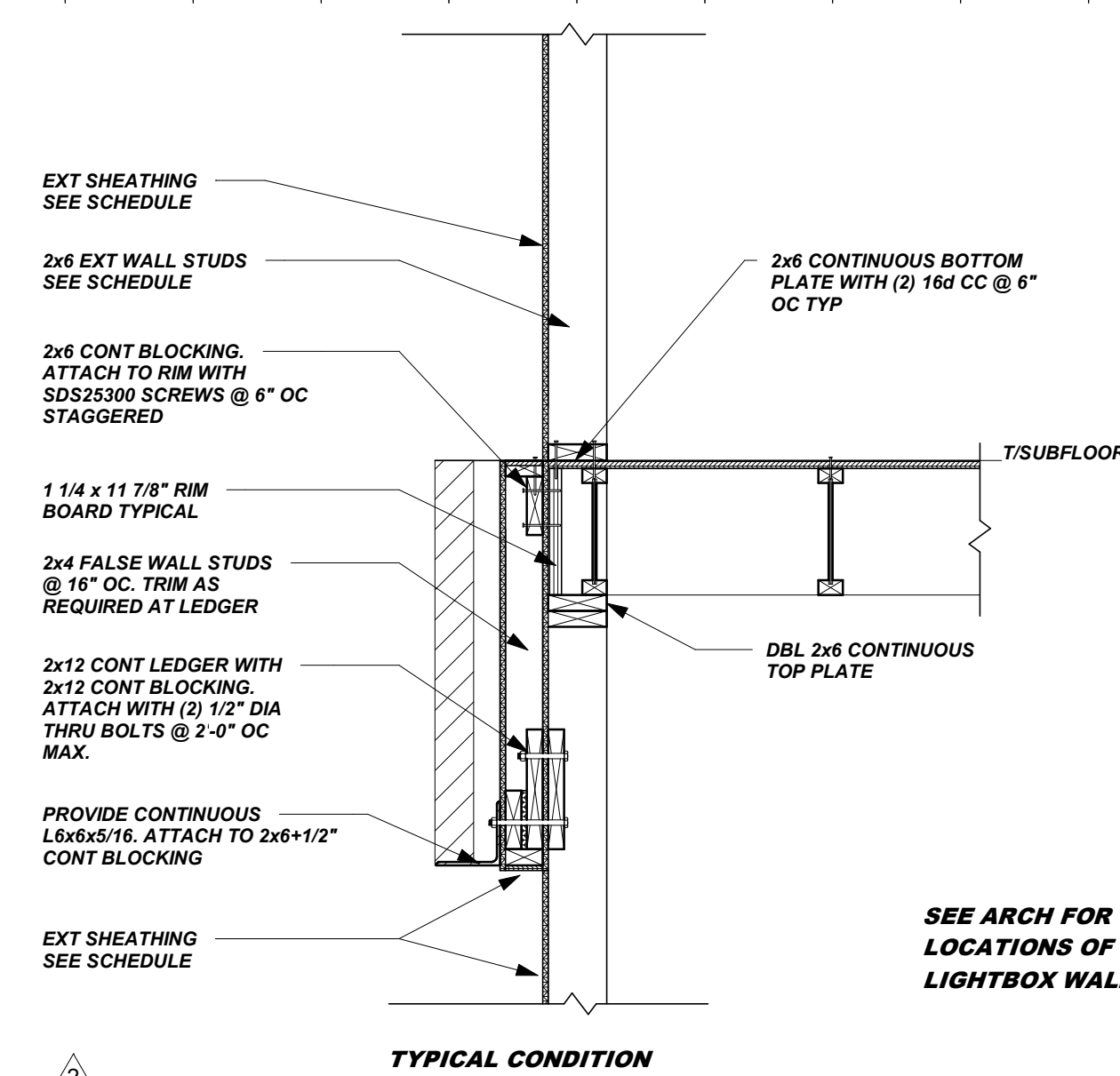
6 **TYPICAL BRACKET AT MECH CHASE**
S-401 3/4" = 1'-0"

7 **TYPICAL SECTION AT BEAM BEARING ON CMU**
S-401 3/4" = 1'-0"

8 **TYP TJI TO SHEARWALLS AT ROOF**
S-401 3/4" = 1'-0"

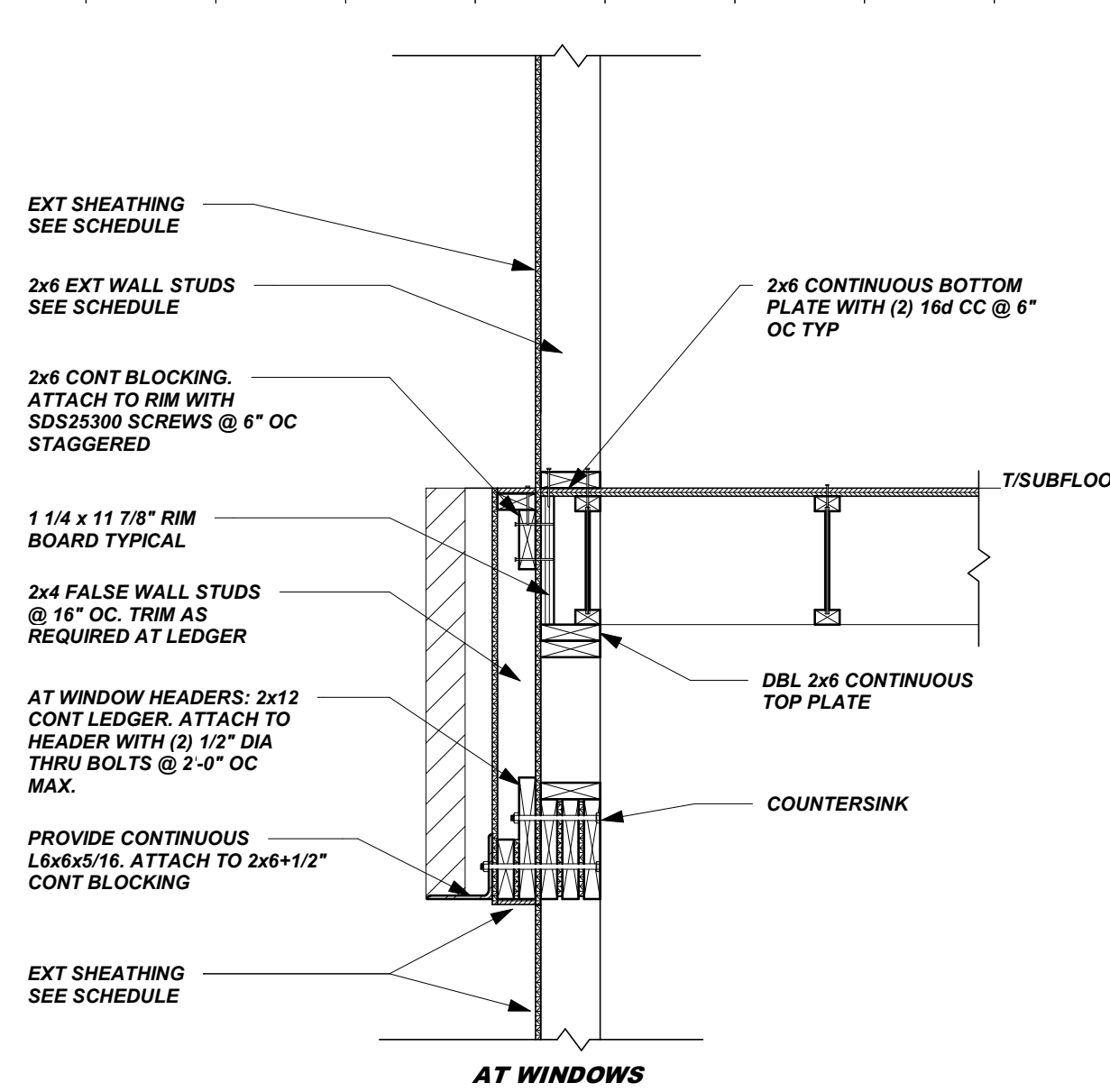


9 **TYP PARALLEL TJI TO SHEAR WALLS AT ROOF**
S-401 3/4" = 1'-0"



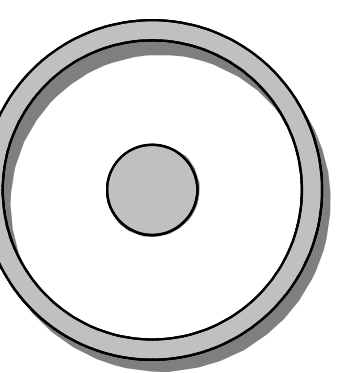
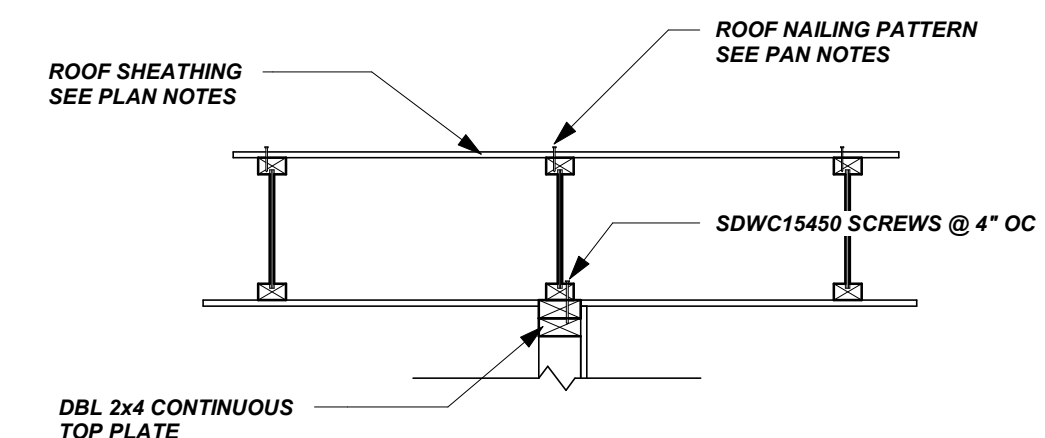
SEE ARCH FOR
LOCATIONS OF DOUBLE
LIGHTBOX WALLS

TYPICAL CONDITION

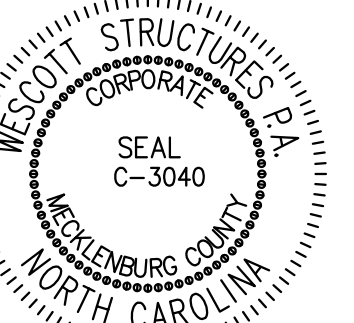
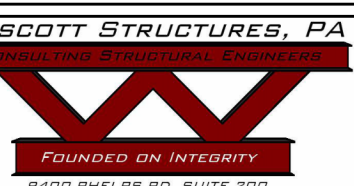


AT WINDOWS

10 **TYP SECTION AT LIGHTBOX WALLS**
S-401 3/4" = 1'-0"



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2	7-1-26	DUMPS/TER
3	9-16-26	Clarifications

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FRAMING SECTIONS

S-401

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