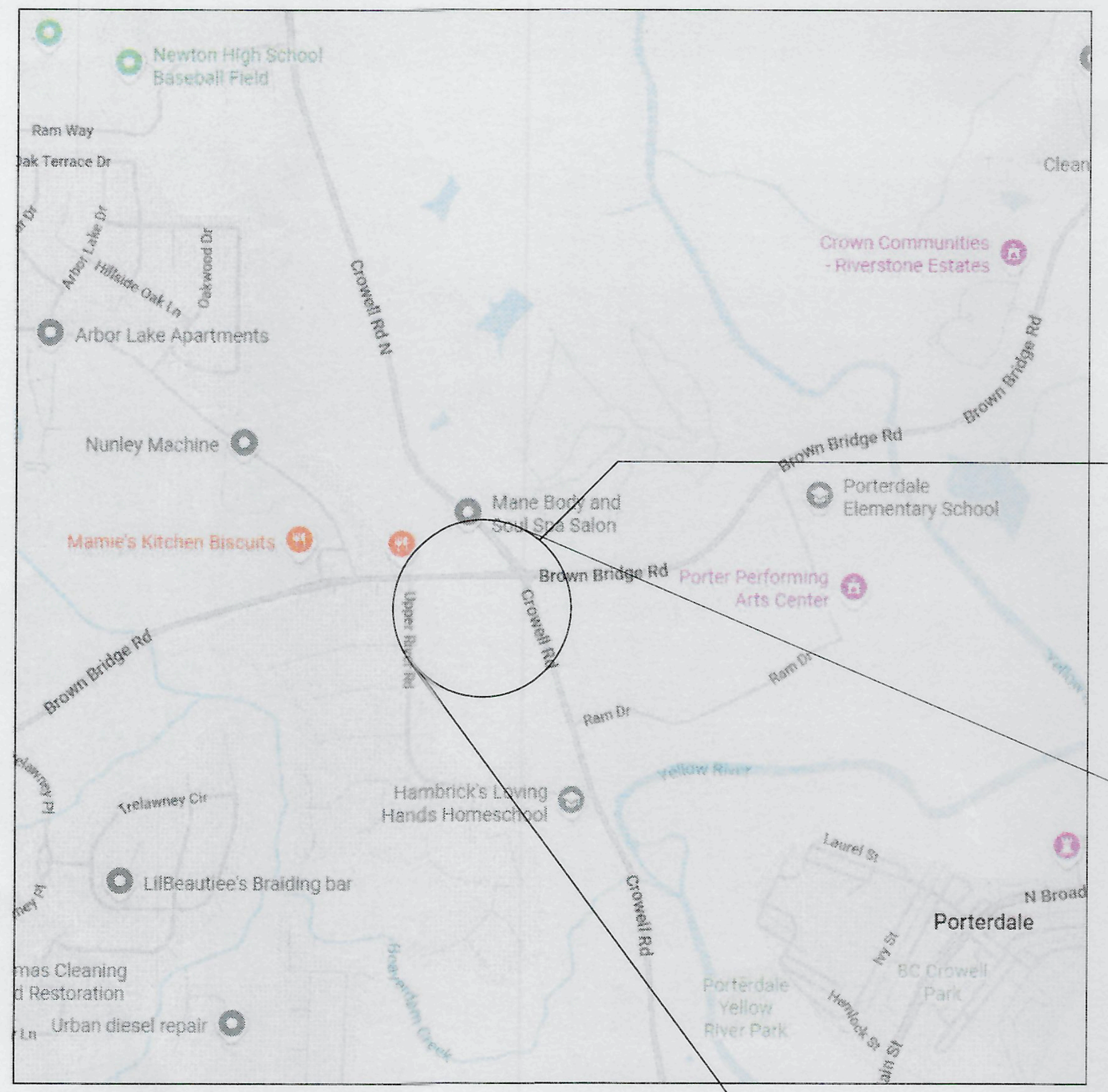
ALPHA BLDG SET 09-01-2026

NEWTON COUNTY WATER AND SEWERAGE AUTHORITY

NCWSA OFFICE
11325 BROWN BRIDGE ROAD COVINGTON, GEORGIA, 30016
NCWSA OFFICE ADDITION



SITE

PROJECT LOCATION

CONSTRUCTION DOCUMENTS
07/01/2026

1100 Abernathy Rd, Building 500, Suite 1050
Atlanta, GA 30328
www.wendelcompanies.com
p:678.222.0375 tf:877.293.6335

Wendel Project No. 616202

BROWN AND CALDWELL
990 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

ADDRESS 1852 Century Place NE, Suite 201, Atlanta Georgia 30345
PHONE 770.457.5923 **WEB** www.pesengineers.com

APPROVED
By dthomas at 3:33 pm, Aug 27, 2026
Insp. D. Thomas

APPROVED
BY LPatrick DATE 8/31/24

NEWTON COUNTY WATER AND
SEWERAGE AUTHORITY
NCWSA OFFICE
11325 BROWN BRIDGE ROAD
COVINGTON, GEORGIA, 30016

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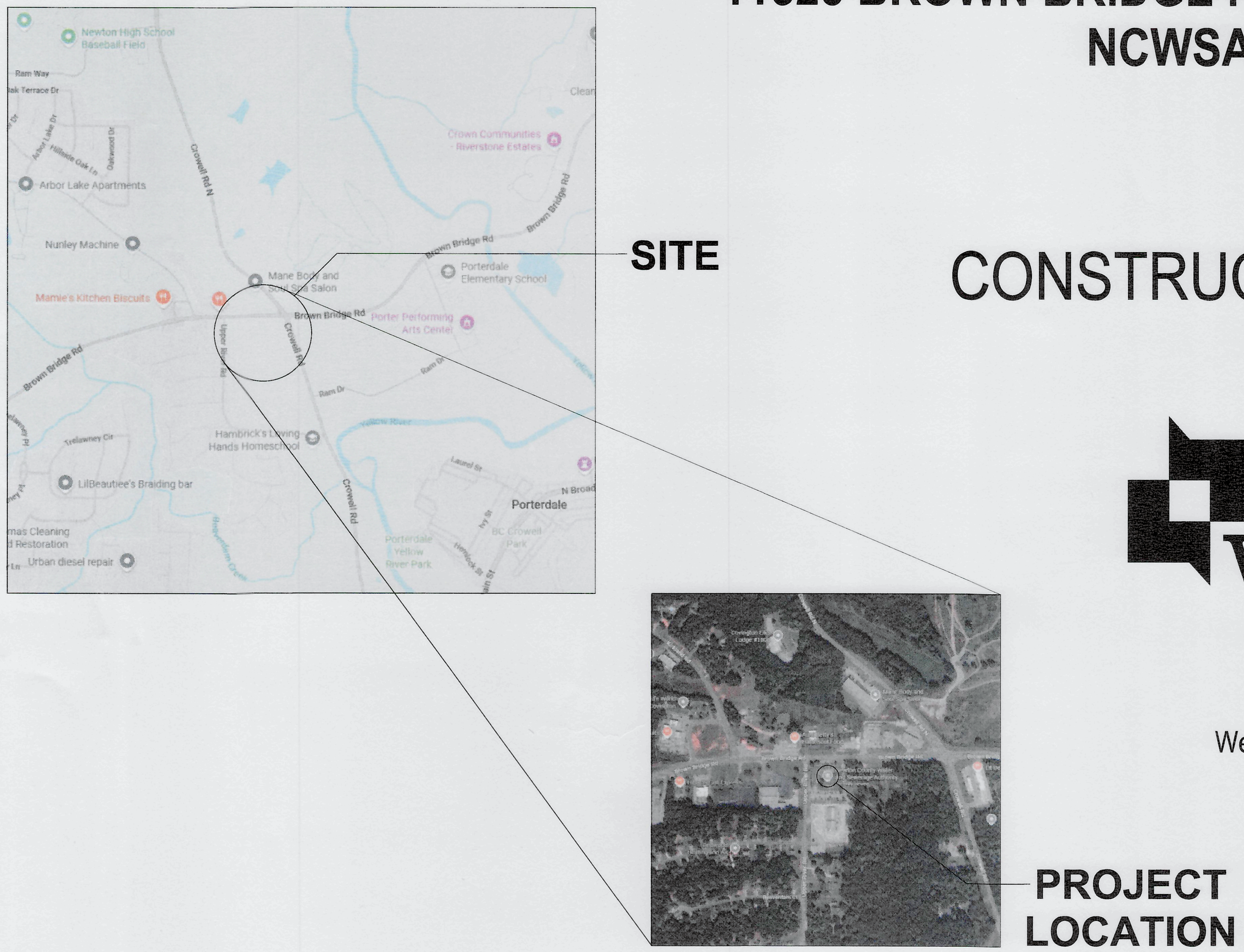

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07/01/2026

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NCWSA OFFICE
11325 BROWN BRIDGE ROAD
COVINGTON, GEORGIA, 30016

NCWSA OFFICE ADDITION
CONSTRUCTION DOCUMENTS

☐ Preliminary Plat ☐ Final Plat ☐ Site Development ☒ Building
☒ No Exceptions Taken ☒ Zoning

The review of these plans is for general compliance with Newton County, GA regulations & requirements. Markings or comments shall not be construed as relieving the applicant/designer/owner or contractor from compliance with said regulations & requirements.

PERMIT: NCWSA - Addition
DATE: 8.25.2026
BY: J. Hutchings, M. Zapotoski

CPL
ARCHITECTURE
ENGINEERING
PLANNING

APPROVED
BY: UPatrick DATE: 8/31/26

PROJECT TEAM

PES Structural Engineers
1852 Century Pl NE # 201,
Atlanta, GA 30345
T. 770-457-5923

BUILDING CODE INFORMATION:

PROJECT LOCATION: NEWTON COUNTY WATER AND SEWERAGE AUTHORITY
11325 BROWN BRIDGE ROAD
COVINGTON, GA 30016

PROJECT SCOPE:
THIS PROJECT IS AN ADDITION TO AND RENOVATION OF AN EXISTING ADMINISTRATION BUILDING. THE ADDITION WILL INCLUDE A NEW PUBLIC MEETING SPACE AND OFFICES FOR STAFF.

BUILDING AND FIRE CODES:
2026 BUILDING CODE OF GEORGIA INCLUDE:

- 2024 INTERNATIONAL BUILDING CODE (IBC) w/GEORGIA AMENDMENTS
- 2024 INTERNATIONAL EXISTING BUILDING CODE (IEBC) w/GEORGIA AMENDMENTS
- 2024 INTERNATIONAL PLUMBING CODE (IPC) w/GEORGIA AMENDMENTS
- 2024 INTERNATIONAL MECHANICAL CODE (IMC) w/GEORGIA AMENDMENTS
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
- 2023 NFPA 70, NATIONAL ELECTRIC CODE (NEC) w/GEORGIA AMENDMENTS
- 2010 ADA w/ GEORGIA AMENDMENTS

OCCUPANCY CLASSIFICATION (IBC CH. 3) NOTE: BUILDING FULLY SPRINKLERED
MIXED USE / SEPARATED OCCUPANCY (IBC 508.3)
GROUP A-3 ASSEMBLY / GROUP B BUSINESS

OCCUPANCY SEPARATION (IBC CH.5)
GROUP A-3 ASSEMBLY TO GROUP B BUSINESS:
ONE-HOUR REQUIRED SEPARATION (IBC TABLE 508.3.3)

TYPE OF CONSTRUCTION: ADDITION: TYPE IIB
TYPE IIIB LOBBY & BREAK ROOM ONLY
EXISTING: TYPE IIIB

FULLY SPRINKLERED: YES

FIRE ALARM: YES

EXISTING BUILDING:
CONTINUATION OF EXISTING USE: YES
CHANGE OF USE: ADDING ASSEMBLY FUNCTION TO BUSINESS USE
CLASSIFICATION OF WORK: LEVEL 2

BUILDING HEIGHT AND AREA:

ACTUAL BUILDING HEIGHT:	35' (EXISTING) 29' (ADDITION) , 2 STORIES
ALLOWABLE BUILDING HEIGHT:	75' SF, 4 STORIES
ACTUAL BUILDING AREA:	8,974 SF (EXISTING) + 8,423 SF (ADDITION) = 17,397 SF
ALLOWABLE BUILDING AREA:	109,250 SF PER TABLE 506.2 $A_a = A_t+(NS \times I_f)$ 109,250 SF = 92,000+(23,000 x .75)

MAXIMUM EXIT ACCESS TRAVEL DISTANCE: 175 FT
MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE: 75 FT
MAXIMUM DEAD ENDS IN CORRIDORS: 50 FT

CODE OCCUPANCY SCHEDULE

NAME	AREA	OCCUPANT LOAD FACTOR	CALCULATED OCCUPANCY LOAD	LEVEL
ASSEMBLY, A-3				
BOARD ROOM	1679 SF	7 SF	240	1ST FLOOR- EXISTING
	1679 SF		240	
BUSINESS, B				
BUSINESS (ADDITION)	889 SF	150 SF	6	1ST FLOOR- EXISTING
BUSINESS (ADDITION)	340 SF	15 SF	23	1ST FLOOR- EXISTING
BUSINESS (ADDITION)	1061 SF	150 SF	8	1ST FLOOR- EXISTING
BUSINESS (ADDITION)	558 SF	150 SF	4	1ST FLOOR- EXISTING
BUSINESS (ADDITION)	108 SF	150 SF	1	1ST FLOOR- EXISTING
BUSINESS (EXISTING)	4066 SF	150 SF	28	1ST FLOOR- EXISTING
BUSINESS (RENOVATED)	432 SF	150 SF	3	1ST FLOOR- EXISTING
BUSINESS (RENOVATED)	665 SF	150 SF	5	1ST FLOOR- EXISTING
BUSINESS (ADDITION)	3078 SF	150 SF	21	2ND FLOOR - ADDITION
BUSINESS (ADDITION)	296 SF	15 SF	20	2ND FLOOR - ADDITION
BUSINESS (ADDITION)	245 SF	15 SF	17	2ND FLOOR - ADDITION
BUSINESS (EXISTING)	3318 SF	150 SF	23	2ND FLOOR - ADDITION
BUSINESS (RENOVATED)	662 SF	150 SF	5	2ND FLOOR - ADDITION
	15718 SF		164	
BUILDING TOTAL	17397 SF		404	

PLUMBING FIXTURE COUNTS
BUSINESS (B) 164 OCCUPANTS/2 = 82 MALE/ 82 FEMALE
ASSEMBLY (A) 240 OCCUPANTS/2 = 120 MALE/120 FEMALE

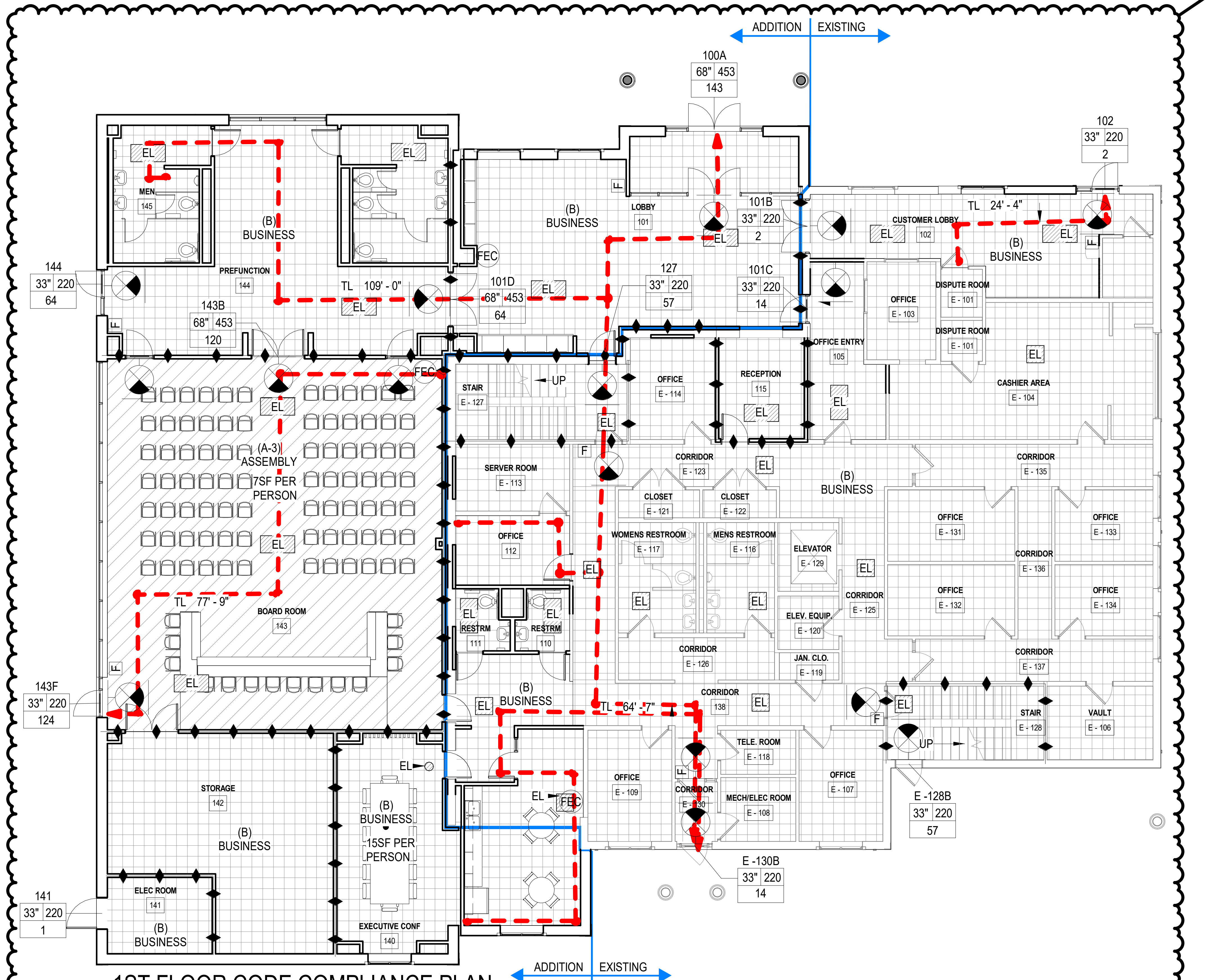
ASSEMBLY	
WATER CLOSETS	
MALE (1 PER 125):	120(A) > 1 WC
FEMALE (1 PER 65):	120(A) > 2 WC
LAVATORIES	
MALE (1 PER 200):	120(A) > 1 LAV
FEMALE (1 PER 200):	120(A) > 1 LAV
DRINKING FOUNTAIN (1 PER 500):	240(A) > 1 DF
SERVICE SINK:	1 SS
BUSINESS	
WATER CLOSETS	
MALE (FIRST 50 - 1 PER 25, REMAINDER - 1 PER 50):	82(B) > 3 WC
FEMALE (FIRST 50 - 1 PER 25, REMAINDER - 1 PER 50):	82(B) > 3 WC
LAVATORIES	
MALE (FIRST 80 - 1 PER 40, REMAINDER - 1 PER 80):	82(B) > 2 LAV
FEMALE (FIRST 80 - 1 PER 40, REMAINDER - 1 PER 80):	82(B) > 2 LAV
DRINKING FOUNTAIN (1 PER 100):	164(B) > 2 DF
SERVICE SINK:	1 SS

ALPHA
BLDG SET
09-01-2026

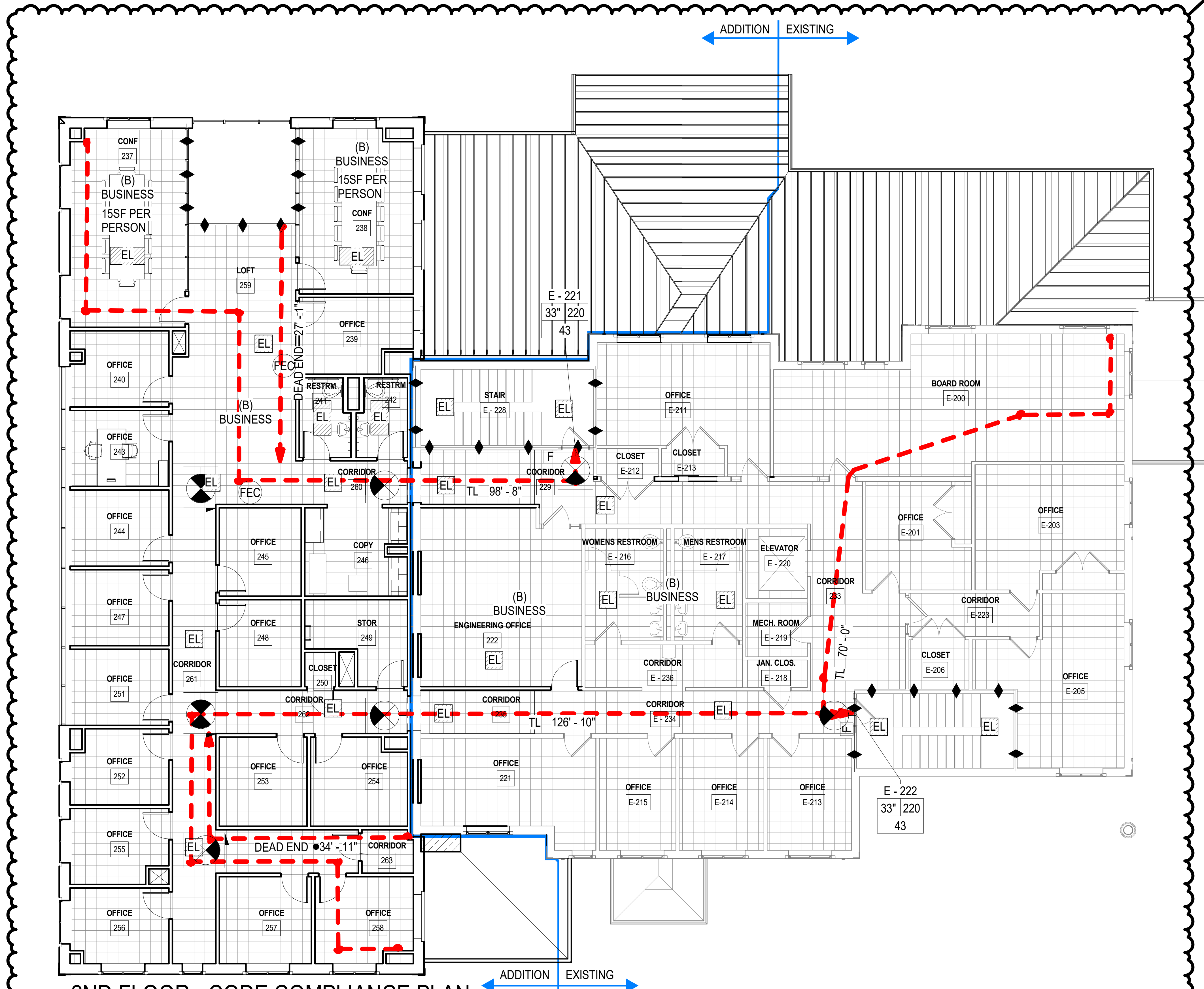
PLUMBING FIXTURE COUNTS

OCCUPANT TOTALS ASSEMBLY = 240 BUSINESS 1ST FLOOR = 78 BUSINESS 2ND FLOOR = 86	REQUIRED USE GROUP A-3.	REQUIRED USE GROUP B.	REQUIRED USE GROUP B. FIRST 50	REQUIRED USE GROUP B. OVER 50	REQUIRED USE GROUP B. FIRST 80	REQUIRED USE GROUP B. OVER 80	SUBTOTAL REQUIRED	TOTAL REQUIRED	PROVIDED FIRST FLOOR	PROVIDED SECOND FLOOR
WATER CLOSETS, UNISEX									3	2
WATER CLOSETS, FEMALE	1 PER 65		1 PER 25	1 PER 50			5	5	5	2
WATER CLOSETS, MALE	1 PER 125		1 PER 25	1 PER 50			4	4	3	1
URINALS	67%>	50%>							2	1
LAVATORIES, UNISEX									3	2
LAVATORIES, FEMALE	1 PER 200				1 PER 40	1 PER 80	3	3	4	2
LAVATORIES, MALE	1 PER 200				1 PER 40	1 PER 80	3	3	4	2
DRINKING FOUNTAINS	1 PER 500	1 PER 100					3	3	2	1
SERVICE SINKS	1	SAME AS A-3					1	1	1	1

X / X" X / X	DOOR NUMBER OR STAIR NUMBER EGRESS WIDTH EGRESS CAPACITY ANTICIPATED LOAD
FE FEC	FIRE EXTINGUISHER / FIRE EXTINGUISHER CABINET
◆ ◆	1 HOUR FIRE-RESISTANCE RATED CONSTRUCTION
◆◆ ◆◆	2 HOUR FIRE-RESISTANCE RATED CONSTRUCTION
◆◆◆ ◆◆◆	3 HOUR FIRE-RESISTANCE RATED CONSTRUCTION
◆S ◆S	1 HOUR FIRE-RESISTANCE/SMOKE BARRIER RATED CONSTRUCTION
TL X' - X" CP X' - X" ● - - - →	EXIT ACCESS TRAVEL DISTANCE LABEL COMMON PATH OF TRAVEL DISTANCE LABEL PATH OF TRAVEL
(A-3) OCC CLASSIFICATION	FUNCTION BY IBC CHAPTER 10
EL	EMERGENCY LIGHT
♿	ACCESSIBILITY SYMBOL
⊗	EXIT SIGN



1 1ST FLOOR CODE COMPLIANCE PLAN
SCALE: 3/32" = 1'-0"



2 2ND FLOOR - CODE COMPLIANCE PLAN
SCALE: 3/32" = 1'-0"

Brown AND Caldwell
BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

REGISTERED ARCHITECT
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA
NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver
FILENAME
BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

CODE COMPLIANCE

DRAWING NUMBER
G101

Plot Date: 8/19/2026 3:18:00 PM
Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

DRAWING INDEX

SHEET NUMBER	SHEET NAME	REVISION NUMBER	REVISION DATE
GENERAL			
G000	COVERSHEET		
G001	DRAWING INDEX		
G002	SHEET LIST	1	8/18/2026
G101	CODE COMPLIANCE	1	8/18/2026
CIVIL			
C001	CIVIL GENERAL NOTES AND LEGEND		
C010	SITE DETAILS 1		
C011	SITE DETAILS 2		
CD101	EXISTING SITE CONDITIONS AND DEMOLITION PLAN		
C201	PROPOSED SITE PLAN		
C207	SEDIMENT AND EROSION CONTROL NOTES 1		
C213	SEDIMENT AND EROSION CONTROL PLAN		
C214	SEDIMENT AND EROSION CONTROL DETAILS 1		
C215	SEDIMENT AND EROSION CONTROL DETAILS 2		
C216	SEDIMENT AND EROSION CONTROL DETAILS 3		
C401	SITE UTILITY PLAN		
STRUCTURAL			
S001	GENERAL NOTES & SCHEDULES		
S002	DESIGN CRITERIA		
S002A	LOAD MAPS		
S003	CONCRETE GENERAL NOTES & SCHEDULES		
S005	STEEL GENERAL NOTES & SCHEDULES		
S006	WOOD GENERAL NOTES		
S101	FOUNDATION PLAN		
S102	LEVEL 2 FRAMING PLAN		
S103	ROOF FRAMING PLAN		
S201	WOOD WALL ELEVATIONS		
S202	WOOD SHEAR WALL ELEVATIONS		
S301	DETAILS		
S311	SLAB-ON-GROUND DETAILS		
S312	SLAB-ON-GROUND DETAILS		
S313	SLAB-ON-GROUND DETAILS		
S501	STEEL FRAMING DETAILS		
S511	COMPOSITE STEEL FRAMING DETAILS		
S512	COMPOSITE STEEL FRAMING DETAILS		
S513	COMPOSITE STEEL FRAMING DETAILS		
S521	STEEL ROOF FRAMING DETAILS		
S522	STEEL ROOF FRAMING DETAILS		
S523	STEEL ROOF FRAMING DETAILS		
S601	WOOD ROOF FRAMING DETAILS		
S602	WOOD ROOF FRAMING DETAILS		
S611	WOOD SHEAR WALL AND DIAPHRAM DETAILS		
ARCHITECTURE			
A001	TITLES & SYMBOLS	1	8/18/2026
A002	ACCESSIBILITY FIGURES		
A003	COMCHECK	1	8/18/2026
AD101	1ST FLOOR - DEMO PLANS		
AD102	2ND FLOOR - DEMO PLANS		
AD103	ROOF - DEMO PLANS		
AD301	DEMO ELEVATIONS		
A101	1ST FLOOR - CONSTRUCTION PLANS	1	8/18/2026
A102	2ND FLOOR - CONSTRUCTION PLANS		
A150	ROOF - CONSTRUCTION PLANS		
A200	ENLARGED PLANS	1	8/18/2026
A301	CONSTRUCTION ELEVATIONS		
A302	CONSTRUCTION ELEVATIONS		
A350	BUILDING SECTIONS		
A351	WALL SECTIONS		
A352	WALL SECTIONS		
A451	DETAILS		
A452	DETAILS		
A600	INTERIOR ELEVATIONS	1	8/18/2026
A601	INTERIOR ELEVATIONS		
A602	INTERIOR ELEVATIONS		
A650	RESTROOM INTERIOR ELEVATIONS	1	8/18/2026
A800	INTERIOR SECTION DETAILS CASEWORK AND MILLWORK		
A801	INTERIOR SECTION DETAILS CASEWORK AND MILLWORK		
A900	INTERIOR PARTITION TYPES AND DETAILS		
A920	DOOR SCHEDULE AND DETAILS		
A921	WINDOW TYPES		
A950	FINISH SPECIFICATIONS	1	8/18/2026
A951	FIRST FLOOR FINISH PLAN	1	8/18/2026
A952	SECOND FLOOR FINISH PLAN	1	8/18/2026
A953	ENLARGED LOBBY CERAMIC TILE LAYOUT		

DRAWING INDEX

SHEET NUMBER	SHEET NAME	REVISION NUMBER	REVISION DATE
FIRE PROTECTION			
FP001	SYMBOLS, NOTES, AND ABBREVIATIONS	1	7/1/26
FP101	FIRST FLOOR PLAN	1	7/1/26
FP102	SECOND FLOOR PLAN	1	7/1/26
FP103	ATTIC PLAN	1	7/1/26
PLUMBING			
P001	SYMBOLS, ABBREVIATIONS, GENERAL NOTES	1	7/1/26
P101	BELOW GRADE PLAN	1	7/1/26
P102	FIRST FLOOR PLAN	1	7/1/26
P103	SECOND FLOOR PLAN	1	7/1/26
P104	ROOF PLAN	1	7/1/26
P301	SCHEDULES AND DETAILS	1	7/1/26
MECHANICAL			
M001	SYMBOLS, ABBREVIATIONS, GENERAL NOTES		
M601	VENTILATION CALCULATIONS	1	8/18/26
M602	COMCHECK COMPLIANCE	1	8/18/26
MD101	FIRST & SECOND FLOOR DEMO PLAN	1	7/1/26
M101	FIRST FLOOR NEW WORK PLAN	2	8/18/26
M102	SECOND FLOOR NEW WORK PLAN	2	8/18/26
M103	ROOF PLAN	1	7/1/26
M104	ZONNING PLAN	1	7/1/26
M201	DETAILS		
M301	SCHEDULES		
ELECTRICAL			
E001	SYMBOLS, NOTES, & ABBREVIATIONS		
E002	SYMBOLS, NOTES, & ABBREVIATIONS		
E003	ELECTRICAL COMCHECK		
E004	ELECTRICAL COMCHECK		
E005	ELECTRICAL COMCHECK		
ED101	FIRST FLOOR LIGHTING PLAN - DEMOLITION		
ED102	SECOND FLOOR LIGHTING PLAN - DEMOLITION		
ED103	FIRST FLOOR POWER & SYSTEMS PLAN - DEMOLITION		
ED104	SECOND FLOOR POWER & SYSTEMS PLAN - DEMOLITION		
E100	ELECTRICAL SITE PLAN		
E101	FIRST FLOOR LIGHTING PLAN - NEW WORK		
E102	SECOND FLOOR LIGHTING PLAN - NEW WORK		
E103	FIRST FLOOR POWER & SYSTEMS PLAN - NEW WORK	1	8/18/26
E104	SECOND FLOOR POWER & SYSTEMS PLAN - NEW WORK		
E105	ROOF POWER & SYSTEMS PLAN - NEW WORK		
E401	ELECTRICAL DETAILS		
E402	ELECTRICAL DETAILS		
E501	LUMINAIRE SCHEDULE		
E502	MECHANICAL EQUIPMENT CONNECTIONS SCHEDULE		
E503	PANELBOARD SCHEDULES		
E601	SINGLE LINE DIAGRAM		
E701	FIRE ALARM RISER DIAGRAM		
E702	FIRE ALARM DETAILS		

ALPHA BLDG SET 09-01-2026

Brown AND Caldwell

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900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION
DOCUMENTS
07/01/2026

NCWSA
NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE
ADDITION

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REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

SHEET LIST

DRAWING NUMBER
G002

Plot Date: 8/19/2026 3:18:00 PM

Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

GENERAL

A. THE FOLLOWING NOTES APPLY TO ALL STRUCTURAL DRAWINGS. NOTES SHALL APPLY UNLESS OTHERWISE INDICATED BY STRUCTURAL DRAWINGS OR SPECIFICATIONS.

B. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS UNLESS NOTED OTHERWISE.

C. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONSTRUCTION DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, ENGINEER, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONSTRUCTION DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OF RECORD OR ANY OF THE STRUCTURAL ENGINEER OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONSTRUCTION DOCUMENTS.

D. CONSTRUCTION DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE GENERAL CONTRACTOR.

E. CONSTRUCTION DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONSTRUCTION DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.

F. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT/STRUCTURAL ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.

G. DO NOT SCALE FOR DIMENSIONS NOT SHOWN ON DRAWINGS. SEND WRITTEN REQUEST FOR INFORMATION TO THE ARCHITECT FOR DIMENSIONS NOT PROVIDED.

H. THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY, AND STABILITY OF TEMPORARY ERECTION BRACING AND SHORING.

I. NO PROVISIONS HAVE BEEN MADE IN THE DESIGN FOR THE SUPPORT OF A CONCENTRATED LOAD FROM PLUMBING, MECHANICAL OR HVAC EXCEPT AS SHOWN ON THE DRAWINGS.

J. THE GENERAL CONTRACTOR SHALL COORDINATE ALL SIZES AND LOCATIONS OF FLOOR, ROOF, AND WALL PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. ALL PENETRATIONS NOT SHOWN ON STRUCTURAL DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD UNLESS NOTED OTHERWISE.

K. THE GENERAL CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.

L. ELEVATIONS SHOWN ARE TO TOP OF FOUNDATIONS, SLABS OR STEEL BEAMS UNLESS NOTED OTHERWISE.

M. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ORDER TO COMPLY WITH THE CONSTRUCTION DOCUMENTS.

N. THE GENERAL CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL APPLICABLE OSHA REGULATIONS.

O. ALL TESTING SHALL BE PAID FOR BY THE OWNER (CONTRACTOR SHALL COORDINATE WITH OWNER TO ENSURE THAT COST OF TESTING IS ACCURATE AND PRESENTED TO OWNER WITH CONSTRUCTION COSTS).

P. ALL DESIGN AND NEW CONSTRUCTION IS BASED ON AND SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2024 EDITION, WITH APPLICABLE 2026 GEORGIA AMENDMENTS. ALL DESIGN OF RENOVATION WORK OF THE EXISTING STRUCTURE IS BASED ON AND SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL EXISTING BUILDING CODE, 2024 EDITION, WITH APPLICABLE 2026 GEORGIA AMENDMENTS

1

SHOP DRAWINGS AND DEFERRED SUBMITTALS

A. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED IN THE CONSTRUCTION DOCUMENTS.

B. THE GENERAL CONTRACTOR SHALL SUBMIT, AS REQUIRED, PRINTS OR ELECTRONIC COPIES, AS DIRECTED, OF SHOP DRAWINGS FOR ALL FABRICATED MATERIALS TO ARCHITECT FOR REVIEW.

C. REVIEW OF SHOP DRAWINGS BY THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE GENERAL CONTRACTOR OF THE SOLE RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THOSE SHOP DRAWINGS.

D. REPRODUCTION/DUPLICATION OF THE STRUCTURAL DRAWINGS FOR USE IN THE PRODUCTION OF SHOP DRAWINGS IS PROHIBITED, UNLESS NOTED OTHERWISE. IN THE EVENT THAT THE GENERAL CONTRACTOR OR SUBCONTRACTOR ELECTS TO PRODUCE SHOP DRAWINGS BY COPYING ELECTRONIC OR PAPER COPIES OF THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL REQUEST FROM THE STRUCTURAL ENGINEER OF RECORD A SHOP DRAWING WAIVER ALONG WITH THE SPECIFIC SHEETS REQUIRED. SIGNATURE OF THE WAIVER BY THE GENERAL CONTRACTOR, ALONG WITH PAYMENT OF A FEE TO THE STRUCTURAL ENGINEER OF RECORD WILL BE REQUIRED. THE GENERAL CONTRACTOR SHALL CONTINUE TO ASSUME RESPONSIBILITY FOR ERRORS, OMISSIONS AND COORDINATION REQUIRED FOR SHOP DRAWING PRODUCTION, REGARDLESS OF THE USE OF COPIES OF THE STRUCTURAL DRAWINGS FOR SHOP DRAWING PRODUCTION.

E. THE STRUCTURAL ENGINEER OF RECORD HAS DELEGATED THE DESIGN OF SYSTEMS NOT SHOWN IN THE STRUCTURAL DRAWINGS. SUCH SYSTEMS SHALL BE CONSIDERED DEFERRED SUBMITTALS.

F. DEFERRED SUBMITTALS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER (STRUCTURAL ENGINEER WHERE REQUIRED BY JURISDICTION) LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMITTALS SHALL CLEARLY INDICATE ALL LOADS AND REACTIONS TO BE IMPOSED ON THE PRIMARY STRUCTURE. SUBMITTALS SHALL INCLUDE ALL COMPONENTS AND CONNECTIONS. WHERE CONTRACT DOCUMENTS INDICATE MEMBER OR CONNECTION QUALITIES AND/OR QUANTITIES, THESE SHALL BE CONSIDERED A MINIMUM AND REMAIN THE DESIGN RESPONSIBILITY OF THE COMPONENT ENGINEER TO INCREASE AS REQUIRED TO SATISFY LOAD AND DEFLECTION REQUIREMENTS. DEFERRED SUBMITTALS SHALL INCLUDE CALCULATIONS. BOTH THE CALCULATIONS AND THE SHOP DRAWINGS OF THE DEFERRED SUBMITTAL SHALL BE SEALED PRIOR TO SUBMISSION.

G. DEFERRED SUBMITTALS SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION AFTER APPROVAL BY THE CONTRACTOR.

- STEEL CONNECTIONS
- OPEN WEB STEEL JOISTS
- COLD-FORMED STEEL FRAMING
- SEISMIC DESIGN AND ANCHORAGE OF NON-STRUCTURAL COMPONENTS
- ANCHORAGE OF ROOFTOP EQUIPMENT FOR WIND AND SEISMIC FORCES
- PRE-ENGINEERED WOOD TRUSSES
- GLAZING SYSTEMS

I. ALL COMPONENTS ATTACHED TO THE BUILDING STRUCTURE (CLADDING, GLAZING, STAIRS, ETC.) SHALL BE DESIGNED AND DETAILED TO ACCOMMODATE THE BUILDING'S INELASTIC SEISMIC STORY DRIFTS. DESIGN DRIFT SHALL BE TAKEN AS FOLLOWS, UNO:

- 0.02 x H

WHERE H IS THE STORY HEIGHT IN INCHES.

SUSPENDED LOADS AT STRUCTURE

A. ATTACHMENT TO ROOF DECK FOR ANY SUSPENDED LOADS IS PROHIBITED WITHOUT WRITTEN APPROVAL FROM ARCHITECT/STRUCTURAL ENGINEER OF RECORD.

B. PIPE HANGERS SHALL BE ATTACHED TO THE TOP FLANGES OF JOISTS OR BEAMS WITH APPROVED CLAMPS/CONNECTIONS.

C. ALL MULTIPLE TIER CABLE TRAYS, PIPE RACKS OR GROUPS OF PIPES OR DUCTS SHALL BE SUPPORTED FROM EACH ROOF FRAMING MEMBER WHERE THE GROUP CROSSES THE MEMBER OR AT 8'-0" OC MAX (TYPICAL) AND AT 6'-0" OC MAX FOR WOOD WHERE GROUP IS ORIENTED PARALLEL TO THE MEMBER, UNLESS NOTED OTHERWISE ON DRAWINGS.

D. HANGERS SHALL BE ADDED AT ALL PIPE VALVE AND FITTING LOCATIONS.

E. CONTRACTORS AND SUBCONTRACTORS SUSPENDING LOADS FROM STRUCTURE SHALL ACCOUNT FOR AND PROVIDE ALL CONNECTIONS, STRUTS, TIES AND RIGGING REQUIRED FOR COMPLETE INSTALLATION AND SHALL FURNISH DRAWINGS SHOWING POINTS OF SUPPORT, SUPPORT LOADS AND ALL REQUIRED SUPPLEMENTAL BRACING. PROVIDE SUPPORTS AND HANGERS AS REQUIRED FOR PIPING AND EQUIPMENT SO THAT ALL COMBINED LOADING SHALL NOT EXCEED ALLOWABLE LOADINGS OF STRUCTURE AS SHOWN ON STRUCTURAL DRAWINGS. SUPPORT LOCATIONS SHALL BE COORDINATED WITH OTHER TRADES AND SHALL BE INSTALLED IN ACCORDANCE WITH SPECIFICATIONS OF THE ITEMS SUPPORTED.

F. EXPENSE RESULTING FROM IMPROPER COORDINATION OR LOCATION OF ANCHOR BOLTS, OPENINGS, SLEEVES, INSERTS, HANGERS OR OTHER SUPPORTS REQUIRED FOR PIPING AND EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

EXISTING CONDITIONS

A. THE GENERAL CONTRACTOR SHALL SURVEY THE EXISTING STRUCTURE TO DETERMINE THAT ALL MODIFICATIONS AS INDICATED IN THE CONSTRUCTION DOCUMENTS ARE FEASIBLE AND PRACTICAL AND SHALL REPORT ANY DISCREPANCIES OR UNUSUAL CONDITIONS TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD.

B. WHEN EXISTING FRAMING IS SHOWN ON THE STRUCTURAL DRAWINGS IT IS FOR REFERENCE ONLY AS IT RELATES TO THE STRUCTURAL SCOPE OF WORK. THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO BE A COMPREHENSIVE REPRESENTATION OF THE AS-BUILT EXISTING STRUCTURE.

C. REFERENCE DOCUMENTS FOR THIS PROJECT INCLUDE:

1. ORIGINAL STRUCTURAL DRAWINGS DATED 9/18/1997, ISSUED FOR CONSRUCTION, BY DESIGN ASSOCIATES ARCHITECTS, INC.

2. ORIGINAL ARCHITECTURAL DRAWINGS DATED 9/18/1997, ISSUED FOR CONSRUCTION, BY DESIGN ASSOCIATES ARCHITECTS, INC.

3. ARCHITECTURAL DRAWINGS FOR LOBBY ADDITION DATED 9/10/2007, ISSUED FOR CONSRUCTION, BY DIMERY ASSOCIATES ARCHITETS

D. WHERE PORTIONS OF THE NEW CONSTRUCTION ARE INDICATED TO FIT TO EXISTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL VERIFY DIMENSIONS OF EXISTING CONSTRUCTION BY FIELD MEASUREMENTS BEFORE SUBMISSION OF SHOP DRAWINGS AND FABRICATION.

E. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION THAT MIGHT BE AFFECTED BY OR OTHERWISE INTERFERE WITH INSTALLATION OF NEW WORK. THIS INCLUDES THOSE THAT MIGHT BE DAMAGED BY NEW FOUNDATION OR OTHER WORK, AND THOSE WHOSE PRESENCE MIGHT LEAD TO DAMAGE TO THE NEW WORK (SUCH AS DIFFERENTIAL SETTLEMENT, ETC.).

SPECIAL INSPECTIONS

A. SPECIAL INSPECTIONS ARE REQUIRED IN ADDITION TO THE INSPECTIONS SPECIFIED IN SECTION 110 OF THE BUILDING CODE.

B. ALL SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE SUPPLEMENTAL SPECIAL INSPECTIONS PACKAGE.

SEISMIC DESIGN OF NON-STRUCTURAL COMPONENTS

A. ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS, INCLUDING THEIR SUPPORT AND ATTACHMENTS, SHALL BE DESIGNED TO RESIST SEISMIC FORCES IN ACCORDANCE WITH IBC CHAPTER 16, ASCE7 CHAPTER 13, AND ANY ADDITIONAL REQUIREMENTS OF THE STATE OR LOCAL JURISDICTION. THESE REQUIREMENTS SHALL BE SATISFIED BY:

1. PROJECT-SPECIFIC DESIGN AND DOCUMENTATION PREPARED AND SUBMITTED BY A REGISTERED DESIGN PROFESSIONAL IN THE STATE IN WHICH THE PROJECT IS LOCATED.

2. SUBMITTAL OF MANUFACTURER'S CERTIFICATION THAT THE COMPONENT IS SEISMICALLY QUALIFIED BY ANALYSIS, TESTING IN ACCORDANCE WITH SECTION 13.2.5, OR EXPERIENCE DATA IN ACCORDANCE WITH SECTION 13.2.6.

B. SEISMIC BRACING OF ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS NOT SPECIFICALLY SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL IN THE STATE IN WHICH THE PROJECT IS LOCATED.

C. ARCHITECTURAL COMPONENTS REQUIRING SEISMIC DESIGN AND DETAILING INCLUDE, BUT ARE NOT LIMITED TO, ACCESS FLOORS, CLADDING, GLAZING, PARTIAL HEIGHT INTERIOR WALLS, HANGING PARTITIONS, SUSPENDED CEILINGS, AND INTERIOR/EXTERIOR VENEER.

D. MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS REQUIRING SEISMIC DESIGN AND DETAILING INCLUDE, BUT ARE NOT LIMITED TO, DUCTS, LIGHT FIXTURES, PIPING SYSTEMS, ROOF TOP UNITS, AND OTHER EQUIPMENT SUPPORTED BY OR SUSPENDED FROM FLOORS OR ROOFS.

E. ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS CROSSING BUILDING EXPANSION JOINTS SHALL BE DETAILED IN ORDER TO ACCOMMODATE THE ANTICIPATED SEISMIC RELATIVE DISPLACEMENTS ACROSS THE JOINT.

WIND DESIGN OF NON-STRUCTURAL COMPONENTS

A. REFER TO THE WIND COMPONENTS AND CLADDING SCHEDULE ON SHEET S002 FOR WIND PRESSURES TO BE USED FOR THE DESIGN OF EXTERIOR COMPONENT AND CLADDING MATERIALS NOT SPECIFICALLY DESIGNED BY THE STRUCTURAL ENGINEER OF RECORD.

SOILS, SHALLOW FOUNDATIONS, & RETAINING WALLS

A. THE SITE SHALL BE PREPARED IN ACCORDANCE WITH SPECIFICATIONS AND THE CIVIL DRAWINGS. THE STRUCTURAL DESIGN IS BASED ON RECOMMENDATIONS CONTAINED IN THE REPORT OF SUBSURFACE INVESTIGATION BY MC SQUARED, LLC PROJECT NO. A082405.125 DATED JANUARY 9, 2025. THE GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE REPORT AND REVIEW THE RECOMMENDATIONS AND REQUIREMENTS INCLUDED THEREIN FOR THE SELECTED FOUNDATION SYSTEM IN THE CONSTRUCTION DOCUMENTS. A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY ALL ASSUMPTIONS AND REPORT TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD ANY VARIATIONS.

B. DESIGN SOIL BEARING PRESSURE IS 3000 PSF.

C. DESIGN SOIL LATERAL PRESSURES ON STRUCTURE ARE DUE TO THE FOLLOWING EQUIVALENT FLUID DENSITIES:

1. AT REST CONDITION:	55 PCF
2. ACTIVE CONDITION:	37 PCF
3. PASSIVE CONDITION:	151 PCF (FS = 2.0)
4. COEFFICIENT OF FRICTION FOR SLIDING:	0.37

D. ALL EXCAVATIONS AND GRADES PREPARED FOR BEARING SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THE DESIGN ASSUMPTIONS AND REPORT NONCONFORMING CONDITIONS.

E. WHERE FILL IS REQUIRED, IT SHALL BE SELECTED AND PLACED IN ACCORDANCE WITH INSTRUCTIONS OF A QUALIFIED GEOTECHNICAL ENGINEER TO MAINTAIN DESIGN BEARING PRESSURE.

F. FROST DEPTH FOR THIS PROJECT IS 12" BELOW GRADE. FINISHED GRADE SHALL BE MAINTAINED A MINIMUM OF 12" ABOVE TOP OF FOUNDATIONS.

G. TOP OF FOOTING ELEVATIONS PROVIDED ON CONSTRUCTION DRAWINGS ARE FOR PURPOSES OF DESIGN. NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF TOP OF FOOTING ELEVATIONS NEED TO BE ADJUSTED BASED ON CONTRACTOR'S FIELD COORDINATION.

1. GENERAL CONTRACTOR SHALL COORDINATE REQUIRED ADJUSTMENT OF FOOTING ELEVATIONS TO AVOID INFLUENCE BETWEEN FOUNDATIONS AND BURIED UTILITIES. ALL REQUIRED ADJUSTMENTS SHALL BE FORWARDED TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW. SEE "TYPICAL TRENCH ADJACENT TO FOOTING" SECTION.

H. DO NOT EMBED PIPING WITHIN OR PASS PIPING VERTICALLY OR HORIZONTALLY THROUGH FOUNDATIONS WITHOUT REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD. PIPING MAY PASS BELOW CONTINUOUS FOOTINGS WHERE INSTALLED IN ACCORDANCE WITH "TYPICAL PIPE UNDER WALL FOOTING" SECTION.

I. FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES UNLESS NOTED OTHERWISE.

J. THE DESIGN OF WALLS RETAINING EARTH ASSUMES DRAINAGE SYSTEM IS IN PLACE, AND DOES NOT INCLUDE HYDROSTATIC PRESSURE LOADS UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL PROVIDE DRAINAGE SYSTEM IN ALL BACKFILL CONDITIONS (SEE CIVIL/ARCHITECTURAL DRAWINGS FOR DRAINAGE SPECIFICATIONS).

K. THE DESIGN OF WALLS RETAINING EARTH DOES NOT INCLUDE SURCHARGE LOADS THAT MAY BE INDUCED FROM CONSTRUCTION ACTIVITIES. SEE GENERAL NOTES SECTION REGARDING GENERAL CONTRACTOR'S RESPONSIBILITIES FOR TEMPORARY ERECTION BRACING AND SHORING.

L. BACKFILL SHALL NOT BE PLACED AGAINST WALLS UNTIL THE WALLS HAVE ACHIEVED SPECIFIED DESIGN STRENGTH. BACKFILL AGAINST WALLS SHALL BE DEPOSITED EVENLY IN 12" TO 18" LIFTS AGAINST BOTH SIDES OF WALL UNTIL THE LOWER FINAL GRADE IS REACHED.

1. UNLESS SPECIFICALLY NOTED AS "CANTILEVERED" ON STRUCTURAL DRAWINGS, WALLS RETAINING EARTH SHALL NOT BE BACKFILLED AGAINST UNTIL STRUCTURAL SLABS PROVIDING LATERAL RESTRAINT FOR THE WALLS HAVE BEEN INSTALLED AND HAVE REACHED SPECIFIED DESIGN STRENGTH. WHERE THIS CANNOT BE ACCOMMODATED THE WALL SHALL BE SHORED CONTINUALLY.

STRUCTURAL SHEET LIST

SHEET NUMBER	SHEET NAME
S001	GENERAL NOTES & SCHEDULES
S002	DESIGN CRITERIA
S002A	LOAD MAPS
S003	CONCRETE GENERAL NOTES & SCHEDULES
S005	STEEL GENERAL NOTES & SCHEDULES
S006	WOOD GENERAL NOTES
S101	FOUNDATION PLAN
S102	LEVEL 2 FRAMING PLAN
S103	ROOF FRAMING PLAN
S201	WOOD WALL ELEVATIONS
S202	WOOD SHEAR WALL ELEVATIONS
S301	FOUNDATION DETAILS
S311	SLAB-ON-GROUND DETAILS
S312	SLAB-ON-GROUND DETAILS
S313	SLAB-ON-GROUND DETAILS
S501	STEEL FRAMING DETAILS
S511	COMPOSITE STEEL FRAMING DETAILS
S512	COMPOSITE STEEL FRAMING DETAILS
S513	COMPOSITE STEEL FRAMING DETAILS
S521	STEEL ROOF FRAMING DETAILS
S522	STEEL ROOF FRAMING DETAILS
S523	STEEL ROOF FRAMING DETAILS
S601	WOOD ROOF FRAMING DETAILS
S602	WOOD ROOF FRAMING DETAILS
S611	WOOD SHEAR WALL AND DIAPHRAGM DETAILS

ALPHA BLDG SET 09-01-2026

ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALTN	ALTERNATE
AR	ANCHOR ROD
ARCH	ARCHITECT
ASD	ALLOWABLE STRESS DESIGN
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
B/	BOTTOM OF
BD	BOARD
BETW	BETWEEN
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BP	BASE PLATE
BRDG	BRIDGING
BRG	BEARING
C/C	CENTER-CENTER
CFSF	COLD FORMED STEEL FRAMING
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CTR	CENTER
D	DEEP
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DEP	DEPRESSED
DIA	DIAMETER
DIAG	DIAGONAL
DL	DEAD LOAD
DWL	DOWEL
DN	DOWN
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
ENG	ENGINEER OR ENGINEERING
EOS	EDGE OF SLAB
EQ	EQUAL
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F/	FACE OF
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISH FLOOR
FLR	FLOOR
FRT	FIRE RETARDANT TIMBER
FS	FAR SIDE
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE, GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GDR	GIRDER
GENL	GENERAL
GYP	GYPSUM
HCA	HEADED CONCRETE ANCHORS
HDR	HEADER
HG	HIP GIRDER
HGR	HANGER
HI	HIGH
HKD	HOOKED
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
H.T.	HEAVY TIMBER
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
INSUL	INSULATION OR INSULATING
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
JT	JOINT
JST	JOIST
K	KIPS (KILOPOUNDS)
KLF	KIPS PER LINEAL FOOT
KO	KNOCKOUT
KSI	KIPS PER SQUARE INCH
KSF	KIPS PER SQUARE FOOT
L	LENGTH
LFH	LONG FACE HORIZONTAL
LFV	LONG FACE VERTICAL
LG	LONG
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LO	LOW
LOCS	LOCATIONS
LRFD	LOAD RESISTANCE FACTORED DESIGN
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
LW	LONG WAY
LWC	LIGHT WEIGHT CONCRETE
MAX	MAXIMUM
MEP	MECHANICAL, ELECTRICAL & PLUMBING
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MPII	MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS
MTL	METAL
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPEN	OPENING
PAF	POWDER ACTUATED FASTENERS
PCF	POUNDS PER CUBIC FOOT
PEMB	PRE-ENGINEERED METAL BUILDING
PJF	PREFORMED JOINT FILLER
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PPHCC	PRESTRESSED PRECAST HOLLOW CORE CONCRETE
PREFAB	PRE-FABRICATED
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
PT	POST TENSIONED
P.T.	PRESSURE TREATED
QTY	QUANTITY
RAD	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING
REQD	REQUIRED
REV	REVISION
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SER	STRUCTURAL ENGINEER OF RECORD
SF	SQUARE FOOT
SHTHG	SHEATHING
SIM	SIMILAR
SLH	SHORT LEG HORIZONTAL
SLV	SHORT LEG VERTICAL
SOG	SLAB ON GROUND
SPA	SPACES
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
SW	SHORT WAY
SYM	SYMMETRICAL
T/	TOP OF
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TEMP	TEMPORARY
TG	TRUSS GIRDER
THK	THICKENED/THICK
THRU	THROUGH
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WIDE
W/	WITH
W/O	WITHOUT
WD	WOOD
WP	WORK POINT
WWR	WELDED WIRE REINFORCEMENT

PES STRUCTURAL ENGINEERS

ADDRESS 1852 Century Place NE, Suite 201, Atlanta Georgia 30345
PHONE 770.457.5923 **WEB** www.pesengineers.com
PES PROJECT NUMBER: 0250683
PES GEORGIA LICENSE NUMBER: PEF000799
EXPIRATION DATE: 6/30/2028

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

No. SE000165
CHAD FORSTER

Chad A Forster
2026.08.18
17:23:28-04'00'

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	08/18/26	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: ARB
DRAWN: ALK
CHECKED: CAF
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

GENERAL NOTES & SCHEDULES

DRAWING NUMBER
S001

Plot Date: 8/18/2026 2:16:11 PM   Path: Autodesk Docs://NCWSA Admin Bldg._V25/0250683-NCWSA Office Addition-R25-STRUCT.rvt

BUILDING CODES

BUILDING CODES:	
ALL DESIGN AND NEW CONSTRUCTION IS BASED ON AND SHALL BE IN ACCORDANCE WITH:	
1. INTERNATIONAL BUILDING CODE, 2024 EDITION	
2. STATE AND LOCAL AMENDMENTS: 2025 GEORGIA AMENDMENTS	
3. REFERENCED STANDARDS WITH THE EFFECTIVE DATES INDICATED IN THE GOVERNING BUILDING CODE.	
EXISTING BUILDING WORK:	
ALL EVALUATION AND DESIGN ASSOCIATED WITH EXISTING CONDITIONS IS BASED ON:	
1. INTERNATIONAL EXISTING BUILDING CODE, 2024 EDITION	
2. STATE AND LOCAL AMENDMENTS: 2025 GEORGIA AMENDMENTS	
3. IEBC COMPLIANCE PATH:	
- REPAIRS	
- PRESCRIPTIVE METHOD	
- WORK AREA METHOD	
- PERFORMANCE METHOD	
4. STRUCTURAL SCOPE:	
- ADDITION	

DESIGN LOADS

DESIGN ROOF DEAD LOAD:	
SEE LOAD MAPS ON S002A	
DESIGN ROOF LIVE LOAD:	
SEE LOAD MAPS ON S002A	
DESIGN ROOF RAIN LOAD:	
RAIN INTENSITY (100 YEAR, 1-HOUR RAINFALL)	3.2"/HR
DESIGN RAIN INTENSITY FOR STRUCTURAL DESIGN (100 YEAR, 15-MINUTE RAINFALL)	6.8"/HR
DESIGN DEPTH OF RAINWATER AT LOWEST POINT OF ROOF DURING DESIGN RAINFALL	5"
DESIGN ELEVATED FLOOR DEAD LOAD:	
SEE LOAD MAPS ON S002A	
DESIGN SLAB-ON-GROUND LIVE LOAD:	
UNIFORM LIVE LOAD	125 PSF
DESIGN ELEVATED FLOOR LIVE LOAD:	
SEE LOAD MAPS ON S002A. REDUCTIONS APPLIED PER TRIBUTARY AREA AS PERMITTED BY CODE.	
DESIGN SNOW LOAD:	
GROUND SNOW LOAD, Pg	15 PSF
ALLOWABLE STRESS DESIGN GROUND SNOW LOAD, Pg(asd)	10.5
FLAT ROOF SNOW LOAD, Pf	13 PSF
MINIMUM ROOF SNOW LOAD, Pm	15 PSF
SNOW EXPOSURE FACTOR, Ce	1.0
RISK CATEGORY	II
SNOW THERMAL FACTOR (TYPICAL), Ct	1.16
WINTER WIND PARAMETER FOR SNOW DRIFT, W2	0.35
SEE SNOW DRIFT LOAD DIAGRAM ON THIS SHEET FOR SNOW DRIFT LOADS	
DESIGN WIND LOAD:	
BASIC DESIGN WIND SPEED, V	105 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, Vasd	82 MPH
RISK CATEGORY	II
WIND EXPOSURE CATEGORY	C
COMPONENTS AND CLADDING WIND PRESSURE	SEE SCHEDULE
INTERNAL PRESSURE COEFFICIENT	+/-0.18
DESIGN SEISMIC LOAD:	
RISK CATEGORY	II
SPECTRAL RESPONSE ACCELERATION PARAMETER, Ss	0.240
SPECTRAL RESPONSE ACCELERATION PARAMETER, S1	0.091
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, Sds	0.200
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, Sd1	0.130
SITE CLASS (AS DETERMINED BY GEOTECHNICAL INVESTIGATION)	D
BASIC SEISMIC-FORCE RESISTING SYSTEM	
ONE-STORY WOOD STRUCTURE ADDITION: LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE TWO-STORY STEEL STRUCTURE ADDITION: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS	
RESPONSE MODIFICATION FACTOR, R	
ONE-STORY WOOD STRUCTURE ADDITION	6.5
TWO-STORY STEEL STRUCTURE ADDITION	3
DESIGN BASE SHEAR, V	
ONE-STORY WOOD STRUCTURE ADDITION	5 K
TWO-STORY STEEL STRUCTURE ADDITION	40K
ANALYSIS PROCEDURE:	
EQUIVALENT LATERAL FORCE (ASCE 7, SECTION 12.8)	
SEISMIC DESIGN CATEGORY	B
SEISMIC IMPORTANCE FACTOR, Ie	1.00
SEISMIC RESPONSE COEFFICIENT, Cs	
ONE-STORY WOOD STRUCTURE ADDITION	0.029
TWO-STORY STEEL STRUCTURE ADDITION	0.064

NOTES:

1. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.

COMPONENTS & CLADDING EXTERNAL PRESSURE LOADS (PSF) TWO-STORY STEEL ADDITION

IBC 2024: LOCATION PER ASCE 7-22: FIGURE 30.3-1 & 30.3-2A

	ROOF					ROOF OVERHANGS			WALLS			PARAPETS	
EFFECTIVE WIND AREA (FT2)	ALL ROOF ZONES	1'	1	2	3	ROH1, ROH1'	ROH2	ROH3	ALL WALL ZONES	4	5	P4 (+&-)	P5 (+&-)
<10	11.0	-24.8	-43.1	-56.9	-77.5	-39.0	-52.7	-73.4	24.8	-26.8	-33.0	77.6	98.8
20	10.3	-24.8	-40.3	-53.2	-70.2	-38.3	-47.9	-64.9	23.7	-25.7	-30.8	72.6	90.0
50	9.4	-24.8	-36.5	-48.4	-60.5	-37.4	-41.4	-53.6	22.2	-24.3	-27.9	66.0	78.5
>100	8.7	-24.8	-33.7	-44.7	-53.2	-36.7	-36.6	-45.0	21.1	-23.2	-25.7	61.0	69.7
>500	8.7	-16.8	-27.1	-36.2	-36.2	-22.9	-25.2	-25.2	18.6	-20.6	-20.6	49.4	49.4

ROOFTOP EQUIPMENT	
Phoriz =	43.6 PSF
Puplift =	-34.4 PSF

NOTES:

1 a = 10'-9". SEE ASSOCIATED WALL ISOMETRIC FOR LOCATION OF WALL ZONES.

2 POSITIVE PRESSURE VALUES REFER TO FORCES ACTING TOWARDS BUILDING OR COMPONENT FACE, NEGATIVE PRESSURE VALUES REFER TO FORCES ACTING AWAY FROM BUILDING OR COMPONENT FACE.

3 EACH COMPONENT AND ITS CONNECTION SHALL BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.

4 FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN TABULATED VALUES, DESIGN LOADS MAY BE INTERPOLATED. OTHERWISE DESIGN LOAD SHALL BE TAKEN FROM THE NEXT LOWEST TABULATED EFFECTIVE AREA.

5 DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MAY BE MULTIPLIED BY 0.6 FOR USE WITH SERVICE LEVEL OR ASD DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.

6 PARAPET COMPONENTS AND CLADDING ARE THOSE ELEMENTS WHICH EXIST ABOVE THE HORIZONTAL PLANE OF THE ROOF AND SHALL BE DESIGNED FOR:

· POSITIVE AND NEGATIVE PRESSURES 4 OR 5 APPLIED TO THE SHEATHING OR PANELING AND ITS CONNECTION ON OUTSIDE FACE.

· POSITIVE PRESSURES 4 OR 5 APPLIED TO THE SHEATHING OR PANELING AND ITS CONNECTION ON ROOF SIDE FACE.

· NEGATIVE PRESSURES 2 OR 3 APPLIED TO THE SHEATHING OR PANELING AND ITS CONNECTION ON ROOF SIDE FACE.

· P4/5 SHALL BE APPLIED TO THE DESIGN OF THE STRUCTURAL ELEMENT OF THE PARAPET AND ITS CONNECTION, INCLUDING BUT NOT LIMITED TO THE STUD FRAMING OF THE PARAPET.

7 ROOTOP EQUIPMENT PRESSURES SHALL BE APPLIED HORIZONTALLY AND VERTICALLY TO COMPONENTS WHICH ARE EITHER ROOFTOP STRUCTURES OR ROOFTOP APPURTENANCES AND THEIR CONNECTION. EXAMPLES OF THIS ARE RTUs, AHUs, AND SCREEN WALLS.

8 ROH# : DENOTES DESIGN WIND PRESSURE VALUES WHICH SHALL BE APPLIED AT ROOF OVERHANGS TO TOP SURFACE CLADDING OR SHEATHING AND ITS CONNECTION. SOFFIT CLADDING OR SHEATHING SHALL BE DESIGNED FOR SIMILAR PRESSURE TO THE ADJACENT WALL PRESSURE. A COMBINATION OF THESE FORCES SHALL BE APPLIED TO THE STRUCTURAL ELEMENT OF THE OVERHANG AND ITS CONNECTION, INCLUDING BUT NOT LIMITED TO THE STUD FRAMING OF THE OVERHANG.

COMPONENTS & CLADDING EXTERNAL PRESSURE LOADS (PSF) ONE-STORY WOOD ADDITION

IBC 2024: LOCATION PER ASCE 7-22: FIGURE 30.3-1 & 30.3-2B & 30.3-2E

	ROOF				ROOF OVERHANGS			WALLS		
EFFECTIVE WIND AREA (FT2)	ALL ROOF ZONES	1	2	3	ROH1	ROH2	ROH3	ALL WALL ZONES	4	5
<10	18.0	-45.1	-59.6	-78.2	-62.1	-76.6	-95.2	24.4	-26.5	-32.7
20	15.5	-38.8	-51.5	-67.0	-54.6	-67.3	-82.9	23.3	-25.4	-30.5
50	12.8	-30.4	-40.7	-52.2	-44.8	-55.1	-66.6	21.9	-23.9	-27.6
>100	11.4	-24.7	-35.4	-41.0	-37.9	-48.6	-54.3	20.8	-22.8	-25.4
>500	9.9	-20.0	-30.2	-41.0	-30.6	-40.8	-51.7	18.2	-20.3	-20.3

NOTES:

1 a = 6'-6". SEE ASSOCIATED WALL ISOMETRIC FOR LOCATION OF WALL ZONES.

2 POSITIVE PRESSURE VALUES REFER TO FORCES ACTING TOWARDS BUILDING OR COMPONENT FACE, NEGATIVE PRESSURE VALUES REFER TO FORCES ACTING AWAY FROM BUILDING OR COMPONENT FACE.

3 EACH COMPONENT AND ITS CONNECTION SHALL BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE FORCES.

4 FOR COMPONENTS HAVING EFFECTIVE AREAS IN BETWEEN TABULATED VALUES, DESIGN LOADS MAY BE INTERPOLATED. OTHERWISE DESIGN LOAD SHALL BE TAKEN FROM THE NEXT LOWEST TABULATED EFFECTIVE...

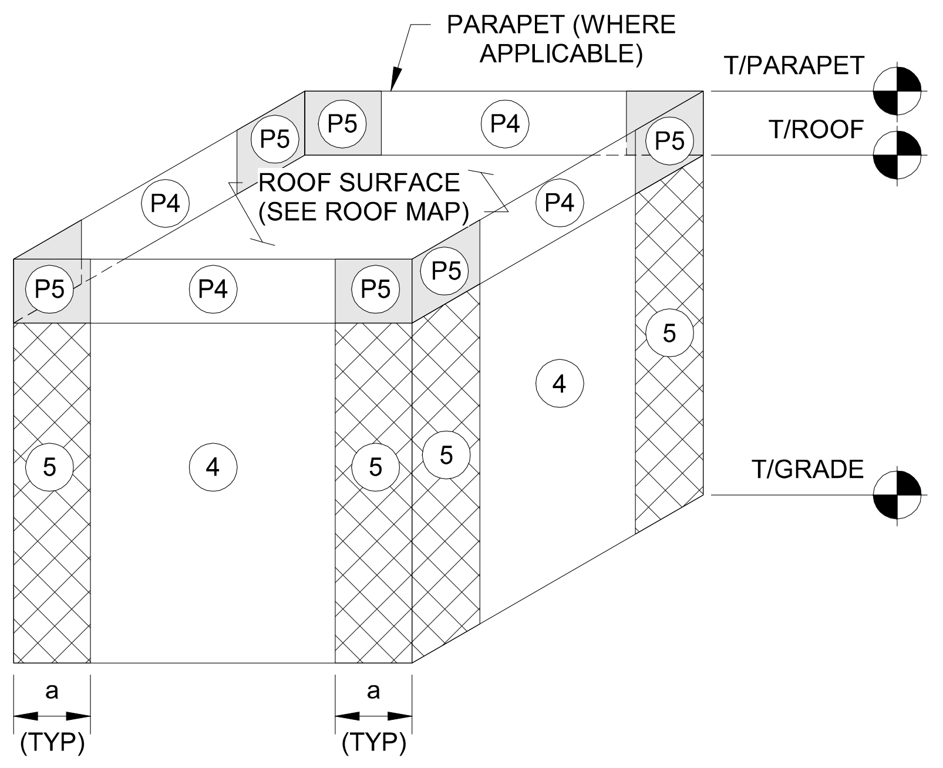
5 DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MAY BE MULTIPLIED BY 0.6 FOR USE WITH SERVICE LEVEL OR ASD DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.

6 ROOTOP EQUIPMENT PRESSURES SHALL BE APPLIED HORIZONTALLY AND VERTICALLY TO COMPONENTS WHICH ARE EITHER ROOFTOP STRUCTURES OR ROOFTOP APPURTENANCES AND THEIR CONNECTION. EXAMPLES OF THIS ARE RTUs, AHUs, AND SCREEN WALLS.

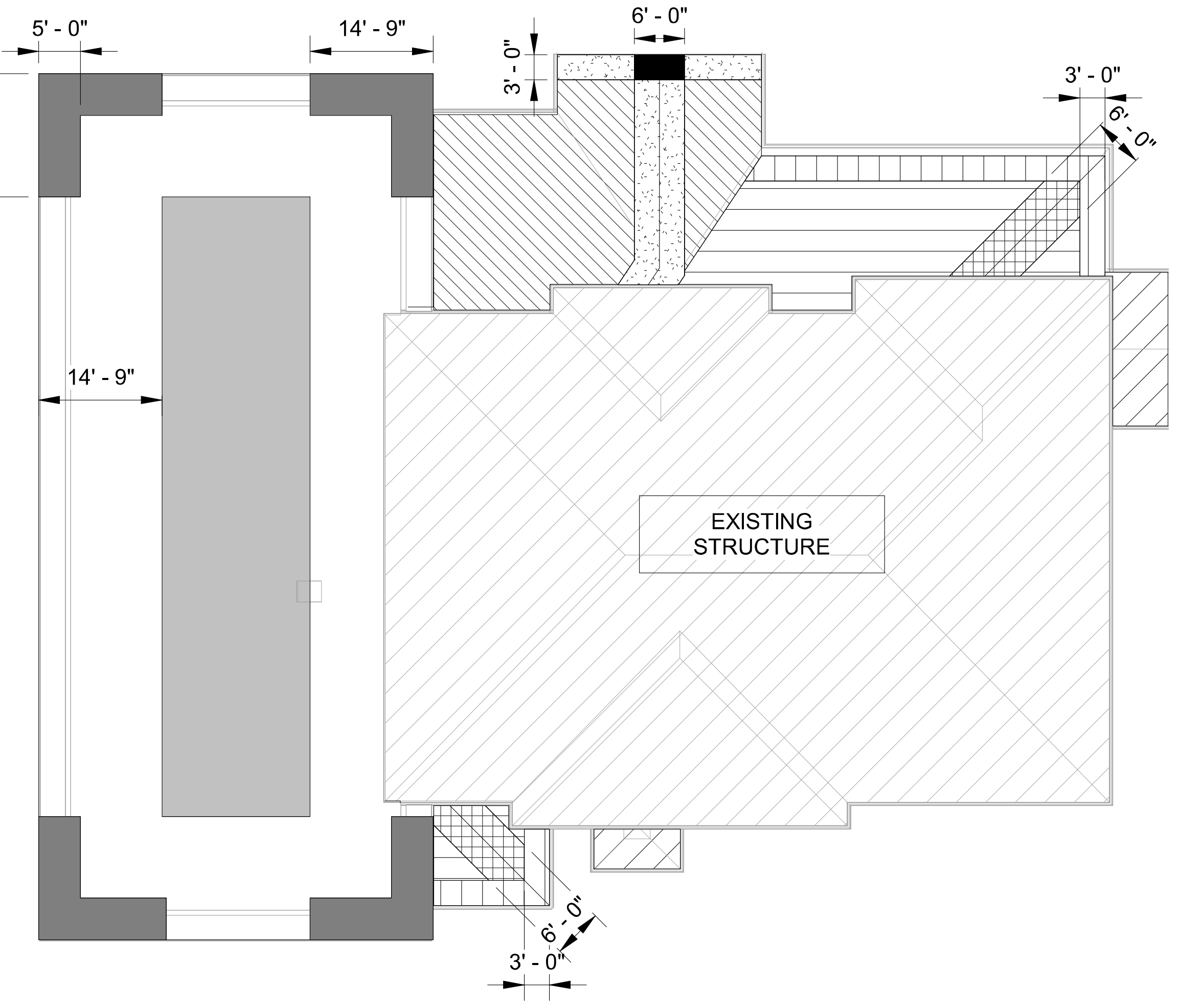
7 ROH# : DENOTES DESIGN WIND PRESSURE VALUES WHICH SHALL BE APPLIED AT ROOF OVERHANGS TO TOP SURFACE CLADDING OR SHEATHING AND ITS CONNECTION. SOFFIT CLADDING OR SHEATHING SHALL BE DESIGNED FOR SIMILAR PRESSURE TO THE ADJACENT WALL PRESSURE. A COMBINATION OF THESE FORCES SHALL BE APPLIED TO THE STRUCTURAL ELEMENT OF THE OVERHANG AND ITS CONNECTION, INCLUDING BUT NOT LIMITED TO THE STUD FRAMING OF THE OVERHANG.

C&C DIAGRAM KEY:

▒	DENOTES FLAT ROOF ZONE 1 PRESSURES
☐	DENOTES FLAT ROOF ZONE 2 PRESSURES
▓	DENOTES FLAT ROOF ZONE 3 PRESSURES
▧	DENOTES GABLE ZONE 1 PRESSURES
░	DENOTES GABLE ZONE 2 PRESSURES
■	DENOTES GABLE ZONE 3 PRESSURES
▤	DENOTES HIP ZONE 1 PRESSURES
▦	DENOTES HIP ZONE 2 PRESSURES
▥	DENOTES HIP ZONE 3 PRESSURES



WALL ISOMETRIC

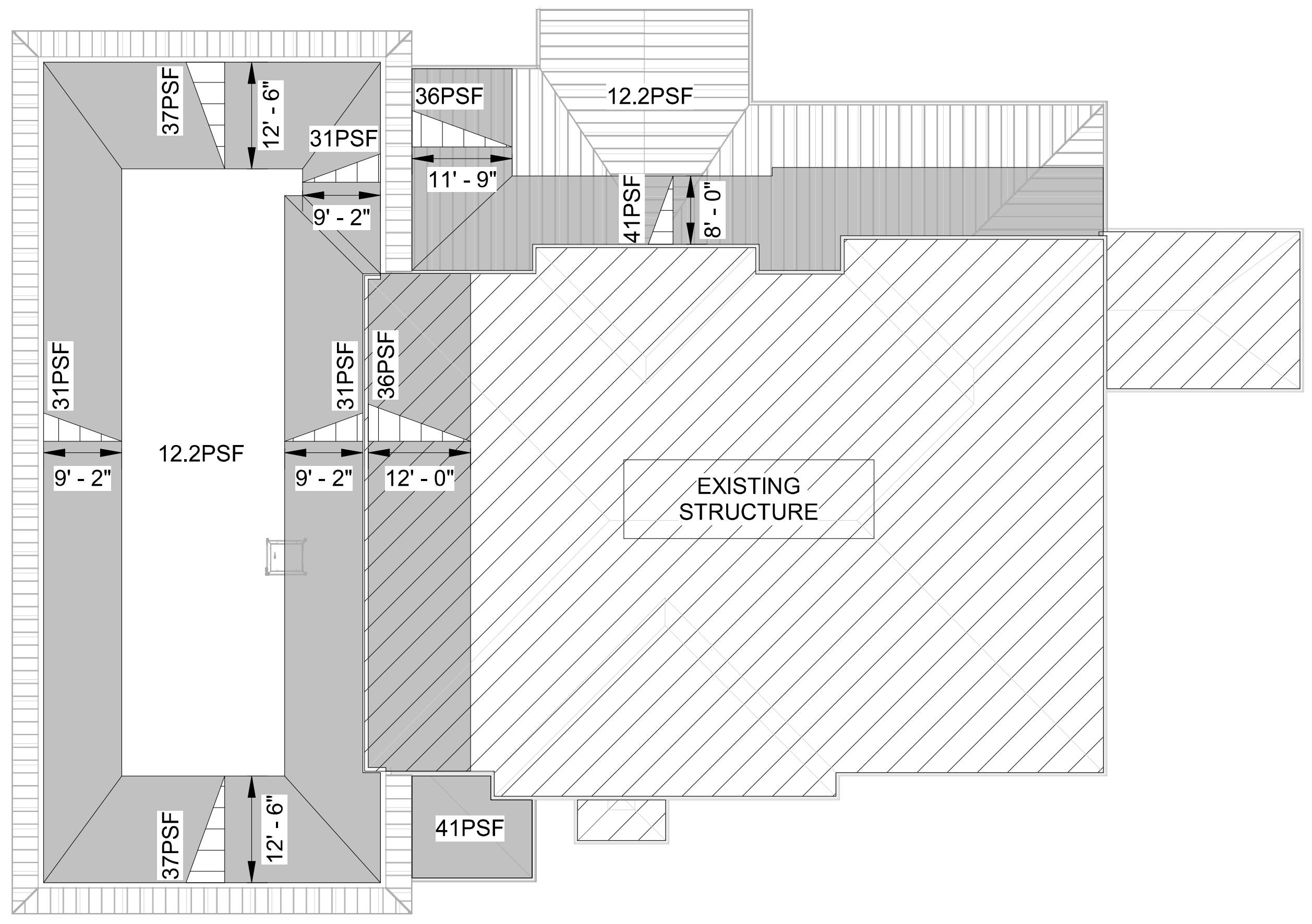


ROOF PLAN

COMPONENTS & CLADDING DIAGRAM

SCALE: 1" = 20'-0"

1 / S002



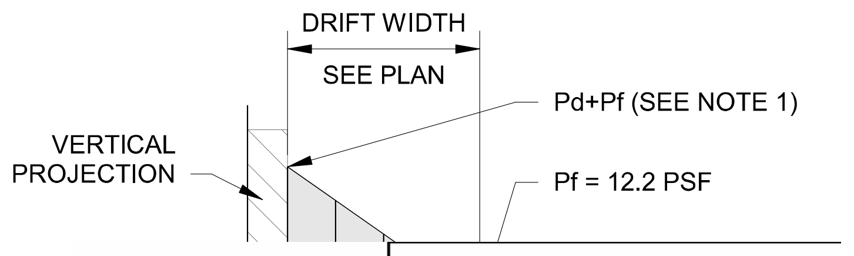
ROOF SNOW DRIFT DIAGRAM

SCALE: 1" = 20'-0"

2 / S002

SNOW DRIFT LOAD DIAGRAM NOTES:

1. ▒ DENOTES LOCATION OF SNOW DRIFT. LOADS SHOWN ARE TOTAL SNOW LOAD (Pd+Pf) WITH VALUES DECREASING LINEARLY FROM DENOTED PRESSURE TO BALANCED SNOW LOAD PRESSURE (Pf), UNLESS NOTED OTHERWISE
2. ☐ DENOTES LOCATION OF BALANCED FLAT ROOF SNOW LOAD (Pf) ONLY. SEE DESIGN CRITERIA ON Sxxx FOR ADDITIONAL SNOW LOADING INFORMATION
3. ALL LOADS ARE UNFACTORED
4. WHERE DRIFT LOADS ARE SHOWN ON DRIFT DIAGRAM, DRIFT LOADS HAVE BEEN ACCOUNTED FOR IN DESIGN OF STRUCTURE AND IN STEEL JOIST DESIGNATIONS ON ROOF FRAMING PLANS.



ALPHA BLDG SET 09-01-2026

PES STRUCTURAL ENGINEERS

ADDRESS 1852 Century Place NE, Suite 201, Atlanta Georgia 30345
PHONE 770.457.5923 **WEB** www.pesengineers.com
PES PROJECT NUMBER: 0250683
PES GEORGIA LICENSE NUMBER: PEF000799
EXPIRATION DATE: 6/30/2028

Path: Autodesk Docs://NCWSA Admin Bldg_V250250683-NCWSA Office Addition-R25-STRUCT.rvt

Plot Date: 8/18/2026 2:16:12 PM

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

No. SE000165 STRUCTURAL ENGINEER CHAD FORSTER

Chad A Forster
2026.08.18
17:23:37-04'00'

CONSTRUCTION DOCUMENTS
07/01/2026

NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: ARB
DRAWN: ALK
CHECKED: CAF
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

DESIGN CRITERIA

DRAWING NUMBER
S002

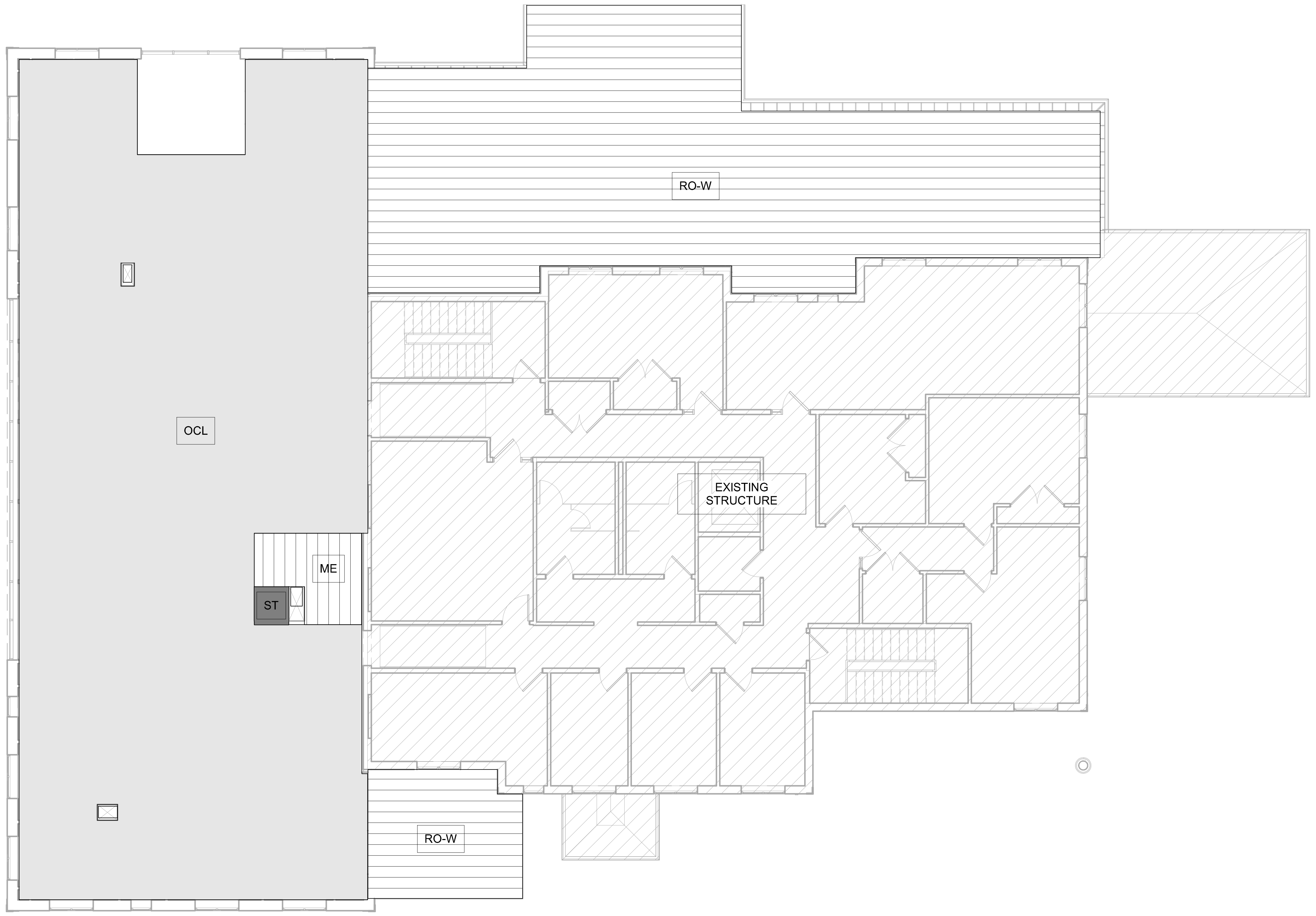
ALPHA BLDG SET 09-01-2026

LOAD MAP KEY

LOAD MARK	OCCUPANCY OR USE	SUPERIMPOSED DEAD LOAD (PSF)	LIVE LOAD (PSF)	LIVE LOAD REDUCTION	CONCENTRATED LIVE LOAD (LB)	REMARKS
ME	MECHANICAL/ELECTRICAL	20	125	NO	-	-
OCL	OFFICES, CORRIDORS, LOBBIES	20	100	NO	2000	-
RO-S	STEEL ROOF	20	20	YES	300	-
RO-W	WOOD ROOF	TOP CHORD DL = 10 PSF BOTTOM CHORD DL = 10 PSF	TOP CHORD LL = 20 PSF	YES	300	TRUSS SELF WEIGHT = 3 PSF (ASSUMED)
ST	LIGHT STORAGE	20	125	NO	-	-

LOAD MAP NOTES:

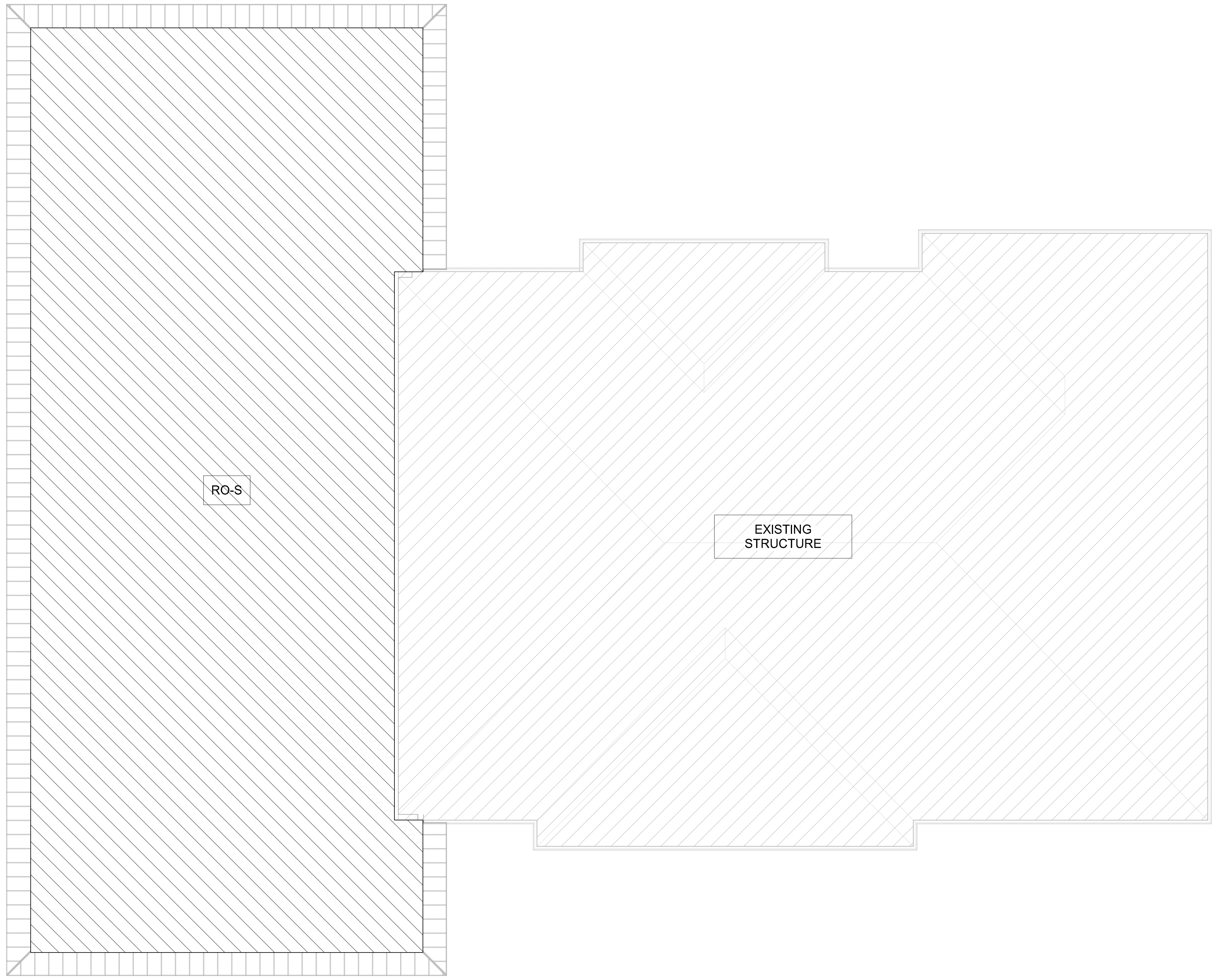
1. FOR DESIGN LOAD CRITERIA, SEE S002.
2. SUPERIMPOSED DEAD LOADS ARE IN ADDITION TO THE SELF-WEIGHT OF THE STEEL COMPOSITE STRUCTURE.
3. SEE FRAMING PLANS FOR DESIGN LOADS OF SPECIFIC ITEMS SUCH AS MECHANICAL EQUIPMENT.
4. LIVE LOAD REDUCTION SHALL BE IN ACCORDANCE WITH THE REFERENCED BUILDING CODE.
5. ALL LOADS ARE UNFACTORED FOR USE IN THE APPLICABLE LOAD COMBINATIONS OF THE REFERENCED BUILDING CODE, UNO.



LEVEL 2 LOAD MAP

SCALE: 1" = 10'-0"

1
S002A



ROOF LOAD MAP

SCALE: 1" = 10'-0"

2
S002A

PES STRUCTURAL ENGINEERS

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PHONE 770.457.5923 **WEB** www.pesengineers.com
PES PROJECT NUMBER: 0250683
PES GEORGIA LICENSE NUMBER: PEF000799
EXPIRATION DATE: 6/30/2028

Plot Date: 8/18/2026 2:16:12 PM

Path: Autodesk Docs://NCWSA Admin Bldg_V25/0250683-NCWSA Office Addition-R25-STRUCT.rvt

Brown AND Caldwell
BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

No. SE000165
CHAD FORSTER

Chad A Forster
2026.08.18
17:23:38-04'00'

CONSTRUCTION DOCUMENTS
07/01/2026

NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

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AT FULL SIZE

DESIGNED: ARB
DRAWN: ALK
CHECKED: CAF
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

LOAD MAPS

DRAWING NUMBER
S002A

CONCRETE

A. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH DIVISION 03 SPECIFICATIONS.

B. CONCRETE MIXTURES SHALL MEET THE MINIMUM REQUIREMENTS TABULATED IN THE SCHEDULE ON THIS SHEET.

C. THE GENERAL CONTRACTOR SHALL SUBMIT TO STRUCTURAL ENGINEER OF RECORD PROPOSED CONSTRUCTION JOINT LOCATIONS FOR APPROVAL. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS. WHERE NEW CONCRETE IS TO BE POURED ONTO EXISTING CONCRETE, BONDING IS REQUIRED AS NOTED IN ACI 301.

D. THE FOLLOWING CRITERIA REGARDING PIPES AND CONDUITS EMBEDDED IN ELEVATED CONCRETE SLABS SHALL BE ADHERED TO (SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION OF SLEEVES, PIPES, CONDUIT, ACCESSORIES, ETC). THIS CRITERIA WILL BE STRICTLY ENFORCED.

1. CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE SHALL BE PERMITTED TO BE EMBEDDED IN CONCRETE WITH THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
2. CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE.
3. CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A SLAB SHALL NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF THE CONSTRUCTION.
4. CONDUITS AND PIPES SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB, WALL, OR BEAM IN WHICH THEY ARE EMBEDDED.
5. CONDUITS AND PIPES SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER. CONCRETE COVER FOR PIPES, CONDUITS AND FITTINGS SHALL NOT BE LESS THAN 1 1/2" FOR CONCRETE EXPOSED TO EARTH OR WEATHER, NOR 3/4" FOR CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR IN CONTACT WITH GROUND.
6. CONDUITS AND PIPES SHALL BE PLACED BETWEEN TOP AND BOTTOM SLAB REINFORCEMENT. CONDUITS AND PIPES SHALL BE PLACED IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS NOTED OTHERWISE.
7. CONDUITS AND PIPES SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.
8. CONDUITS AND PIPES, WITH FITTINGS, EMBEDDED WITHIN A COLUMN SHALL NOT DISPLACE MORE THAN 4 PERCENT OF THE AREA OF CROSS SECTION NOTED ON DRAWINGS OR AS REQUIRED BY FIRE PROTECTION.
9. PIPES AND FITTINGS SHALL BE DESIGNED TO RESIST EFFECTS OF MATERIAL, PRESSURE AND TEMPERATURE TO WHICH THEY WILL BE SUBJECTED.
10. REINFORCEMENT WITH AN AREA NOT LESS THAN 0.002 TIMES THE AREA OF CONCRETE SECTION SHALL BE PROVIDED NORMAL TO PIPING. THIS REINFORCEMENT SHALL BE IN ADDITION TO REINFORCEMENT NOTED ON DRAWINGS.
11. REFER TO ACI 318, SECTION 6.3 FOR ADDITIONAL REQUIREMENTS FOR CONDUITS AND PIPES EMBEDDED IN CONCRETE.

E. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR DRIPS, CHAMFERS, REGLETS, SLOTS, SLEEVES, RUSTICATIONS, INSERTS ANCHORS AND OTHER EMBEDDED ITEMS NOT NOTED ON STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PLACING ALL EMBEDDED ITEMS SHOWN ON DRAWINGS & ADDITIONAL ITEMS NOTED IN THIS NOTE, AS REQUIRED BY OTHER TRADES. UNLESS SHOWN ON STRUCTURAL DRAWINGS, NO OPENINGS LARGER THAN 12"x12" SHALL BE PLACED IN SLABS OR WALLS. FOR OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS, APPROVALS MUST BE OBTAINED FROM THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION OF STEEL AND PLACEMENT OF CONCRETE. SHOW ALL OPENINGS AND SLEEVES ON THE SHOP DRAWINGS.

F. CORING OF SLABS AND USE OF DRILLED ANCHORS IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD. IF APPROVED, COORDINATE ANCHOR LOCATIONS SO THAT NO CONTACT IS MADE WITH ANY REINFORCING OR PT TENDONS.

G. POWDER ACTUATED FASTENERS (OR POWDER DRIVEN FASTENERS) SHALL BE ANCHORED IN CONCRETE WITH MINIMUM FASTENER SPACING OF 3" AND MINIMUM EDGE DISTANCE OF 2". FASTENERS SHALL NOT EXCEED 5/8" EMBEDMENT UNLESS APPROVED BY STRUCTURAL ENGINEER OF RECORD.

H. WHERE POLYSTYRENE RIGID INSULATION IS INDICATED AS A FILL MATERIAL BELOW CONCRETE SLABS, INSULATION SHALL CONFORM TO ASTM C-578 WITH MINIMUM COMPRESSIVE RESISTANCE OF 40 PSI AND MINIMUM DENSITY OF 1.8 PCF. INSULATION SHALL ALSO COMPLY WITH ADDITIONAL DIVISION 07 SPECIFICATION REQUIREMENTS WHERE IT IS INTENDED TO PERFORM AS AN INSULATION MATERIAL.

I. STEEL HEADED SHEAR REINFORCEMENT & STUD RAIL ASSEMBLIES SHALL CONFORM TO ASTM A1044.

SLAB-ON-GROUND

A. CONCRETE SLAB CONTROL JOINTS SHALL BE CUT INTO THE SLABS AT A DEPTH OF 1/3 TIMES THE THICKNESS OF THE SLAB FOR FIBER REINFORCED SLABS, 1/4 TIMES THE THICKNESS OF THE SLAB FOR ALL OTHER SLABS USING CONVENTIONAL WET-CUT SAW, AND 1/5 TIMES THE THICKNESS OF THE SLAB FOR ALL OTHER SLABS USING EARLY-ENTRY DRY-CUT SAW. SLAB SHALL BE SAWCUT WITHIN 4 HOURS OF CONCRETE PLACEMENT USING EARLY-ENTRY DRY-CUT SAW OR WITHIN 12 HOURS USING WET-CUT SAW. MAXIMUM SPACING OF INTERIOR SLAB CONTROL JOINTS, UNLESS NOTED OTHERWISE, SHALL BE PER THE TYPICAL CONTROL JOINT KEY PLAN, OR AS SHOWN ON THE CONSTRUCTION DRAWINGS.

B. SLAB CONSTRUCTION JOINTS SHALL BE USED IN PLACE OF CONTROL JOINTS WHERE NEEDED TO INTERRUPT A CONTINUOUS POUR.

C. PLACEMENT OF WELDED WIRE REINFORCEMENT IN SLAB, WHERE SPECIFIED, SHALL BE AT A CONSISTENT DEPTH OF 1 1/2" FROM T/SLAB. WELDED WIRE REINFORCEMENT SHALL BE PROPERLY CHAIRED ABOVE GRADE.

D. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS FOR SLAB FINISHES, SLAB DEPRESSIONS, THICKENED SLABS (IN ADDITION TO THICKENED SLABS NOTED ON STRUCTURAL DRAWINGS), ELEVATIONS, AND ENCASED OR EMBEDDED ITEMS.

E. PLUMBING AND ELECTRICAL CONDUITS SHALL BE PLACED BELOW THE SLAB AND NOT WITHIN THE SLAB. VERTICAL PENETRATIONS ARE ALLOWED.

F. COLUMN BOX-OUTS SHALL BE USED TO ISOLATE AN ADEQUATE AREA AROUND COLUMN BASE PLATES TO PROVIDE FOR COLUMN PLACEMENT AND LEVELING. BOX-OUTS SHALL BE CLEAN AND FREE OF DEBRIS TO TOP OF FOOTING PRIOR TO FILLING WITH CONCRETE.

REINFORCING STEEL

A. REINFORCING STEEL AND ACCESSORIES WORK SHALL BE IN ACCORDANCE WITH DIVISION 03 SPECIFICATIONS.

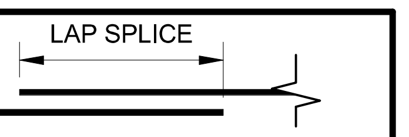
B. REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS, EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY THE GENERAL CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.

C. LONGITUDINAL REINFORCING BARS IN FOOTINGS SHALL BE PLACED CONTINUOUS AT CORNERS AND INTERSECTIONS.

D. FOR EVERY VERTICAL OR HORIZONTAL BAR DISCONTINUED BY AN OPENING, ONE BAR (MIN. OF 2 BARS) SHALL BE ADDED AT SIDE OF OPENING (HALF TO EACH SIDE - TYPICAL).

E. PROVIDE DOWELS FROM FOUNDATIONS, THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.

CLASS B TENSION LAP SPLICE LENGTHS
(ACI 318)



F'c = 3000 PSI

BAR SIZE	TOP BARS (SEE NOTE 3)		OTHER BARS	
	CASE 1	CASE 2	CASE 1	CASE 2
#3	28	42	21	32
#4	37	56	28	43
#5	46	69	36	53
#6	56	83	43	64
#7	81	131	62	93
#8	93	139	71	107
#9	104	157	80	120
#10	118	176	90	136
#11	131	196	100	151

F'c = 4000 PSI

BAR SIZE	TOP BARS (SEE NOTE 3)		OTHER BARS	
	CASE 1	CASE 2	CASE 1	CASE 2
#3	24	36	18	28
#4	32	48	25	37
#5	40	60	31	46
#6	48	72	37	55
#7	70	105	54	81
#8	80	120	62	92
#9	90	136	70	104
#10	102	153	78	117
#11	113	170	87	130

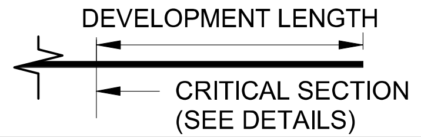
NOTES

1. TABULATED VALUES ARE BASED ON MINIMUM YIELD STRENGTH OF 60 KSI. LENGTHS ARE IN INCHES.
2. CASE 1 AND CASE 2 DEPEND ON THE TYPE OF STRUCTURAL MEMBER, CONCRETE COVER, AND BAR SPACING AND ARE DEFINED AS FOLLOWS:

BEAMS & COLUMNS	CASE 1	CLEAR SPACING $\geq$ 2.0 BAR DIA
	CASE 2	CLEAR SPACING < 2.0 BAR DIA
ALL OTHERS	CASE 1	CONCRETE COVER $\geq$ 1.0 BAR DIA AND CLEAR SPACING $\geq$ 2.0 BAR DIA
	CASE 2	CONCRETE COVER < 1.0 BAR DIA OR CLEAR SPACING < 2.0 BAR DIA

3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE PLACED BELOW THE DEVELOPMENT OR SPLICE.
4. REBAR IS ASSUMED TO BE UNCOATED (NO EPOXY COATING). INCREASE LAP SPLICE AND DEVELOPMENT LENGTHS SHOWN BY 1.3 FOR TOP, AND 1.5 FOR OTHER EPOXY COATED BARS.
5. FOR LIGHTWEIGHT CONCRETE, MULTIPLY TABULATED VALUES BY 1.3.
6. LAP SPLICE LENGTHS SHALL BE AS SHOWN IN THE TABLE ABOVE, UNLESS NOTED OTHERWISE.
7. WHERE BARS OF DIFFERENT SIZES ARE LAP SPLICED, THE LAP SPLICE LENGTH SHALL BE THE LARGER OF THE TENSION DEVELOPMENT LENGTH OF THE LARGER BAR AND THE TENSION LAP SPLICE LENGTH OF THE SMALLER BAR.

TENSION DEVELOPMENT LENGTHS
(ACI 318)



F'c = 3000 PSI

BAR SIZE	TOP BARS (SEE NOTE 3)		OTHER BARS	
	CASE 1	CASE 2	CASE 1	CASE 2
#3	21	32	16	25
#4	28	43	22	33
#5	36	53	27	41
#6	43	64	33	49
#7	62	93	48	72
#8	71	107	55	82
#9	80	120	62	93
#10	90	136	70	104
#11	100	151	77	116

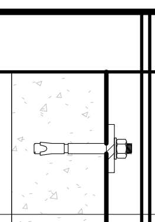
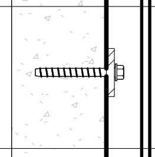
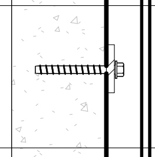
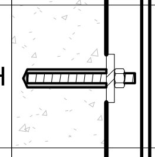
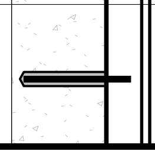
F'c = 4000 PSI

BAR SIZE	TOP BARS (SEE NOTE 3)		OTHER BARS	
	CASE 1	CASE 2	CASE 1	CASE 2
#3	18	28	14	21
#4	25	37	19	28
#5	31	46	24	36
#6	37	55	28	43
#7	54	81	42	62
#8	62	92	47	71
#9	70	104	54	80
#10	78	117	60	90
#11	87	130	67	100

CAST-IN-PLACE CONCRETE CLEAR COVER SCHEDULE

	CONCRETE COVER
CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	3 IN
CONCRETE IN CONTACT WITH GROUND OR WEATHER:	
#6 THROUGH #18 BARS	2 IN
#5 BAR, W31 OR D31 WIRE, AND SMALLER	1 1/2 IN
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS, JOISTS:	
#14 AND #18 BARS	1 1/2 IN
#11 BAR AND SMALLER	3/4 IN
BEAMS, COLUMNS:	
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1 1/2 IN

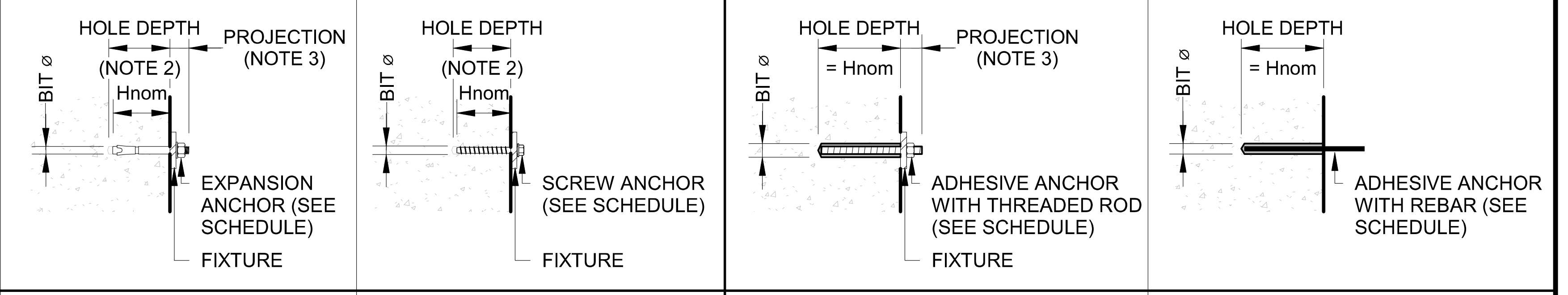
POST-INSTALLED ANCHORS - SPECIFIED PRODUCTS BY APPLICATION

	ANCHOR TYPE		CONCRETE	
MECHANICAL	EXPANSION ANCHORS/ EXPANSION BOLTS		HILTI KWIK BOLT TZ2 SIMPSON STRONG-BOLT 2 DEWALT POWER-STUD+ SD2	
	SCREW ANCHORS		HILTI HUS-EZ SIMPSON TITEN HD DEWALT SCREW-BOLT+	
	LIGHT DUTY SCREW ANCHORS		HILTI KWIK-CON II+ SIMPSON TITEN 2 DEWALT ULTRACON+	
ADHESIVE	ADHESIVE ANCHORS (EPOXY ANCHORS) WITH A36 ALL-THREAD ROD		HILTI HIT-HY200V3 OR RE500V3 SIMPSON SET-3G DEWALT PURE110+	
	ADHESIVE ANCHORS (EPOXY ANCHORS) WITH REBAR		HILTI HIT-HY200V3 OR RE500V3 SIMPSON SET-3G DEWALT PURE110+	

ANCHOR PRODUCT NOTES:

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USING POST INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REINFORCING. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
2. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED, SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGISTERED DESIGN PROFESSIONAL IN THE STATE IN WHICH THE PROJECT IS LOCATED SHOWING THAT THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE REFERENCED BUILDING CODE.
3. ALTERNATE PRODUCTS SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL SHALL HAVE A VALID RESEARCH REPORT, ALSO KNOWN AS EVALUATION REPORT, INDICATING COMPLIANCE WITH APPROPRIATE ACCEPTANCE CRITERIA REQUIRED BY THE BUILDING CODE FOR THE INTENDED LOAD TYPE AND USE (E.G. WIND, SEISMIC, SUSTAINED TENSION, ETC). RESEARCH REPORTS SHALL BE ISSUED BY A SOURCE APPROVED BY THE AUTHORITY HAVING JURISDICTION.

POST-INSTALLED ANCHORS - INSTALLATION REQUIREMENTS



	MECHANICAL ANCHORS		ADHESIVE ANCHORS	
	EXPANSION ANCHOR	SCREW ANCHOR	ADHESIVE ANCHOR WITH THREADED ROD	ADHESIVE ANCHOR WITH REBAR
BIT ⌀	PER MFR	PER MFR	PER MFR	PER MFR
FIXTURE HOLE ⌀ (UNO)	AISC STD	ANCHOR ⌀ + 3/16"	AISC STD	N/A

ANCHOR INSTALLATION NOTES:

1. SPECIAL INSPECTIONS SHALL BE PERFORMED FOR POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE ANCHOR MPII AND/OR EVALUATION REPORT, UNLESS MORE SPECIFIC REQUIREMENTS ARE SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
2. POST-INSTALLED ANCHORS ARE SPECIFIED BY THE NOMINAL EMBEDMENT (Hnom) INDICATED IN MANUFACTURER'S LITERATURE. INCREASE THE HOLE DEPTH AS REQUIRED BY THE MANUFACTURER PRINTED INSTALLATION INSTRUCTIONS FOR THE SPECIFIED ANCHOR SIZE AND EMBEDMENT.
3. TOTAL ANCHOR LENGTH SHALL BE COORDINATED TO PROVIDE ADEQUATE PROJECTION LENGTH FOR FIXTURE THICKNESS, WASHER(S) AS REQUIRED, AND FULL ENGAGEMENT OF NUT.
4. COORDINATE OTHER REQUIREMENTS WITH MANUFACTURER PRINTED INSTALLATION INSTRUCTIONS INCLUDING, BUT NOT LIMITED TO, TEMPERATURE, HOLE DRILLING/CLEANING/PREPARATION, & INSTALLATION TORQUE.

5. ADDITIONAL NOTES FOR ADHESIVE ANCHORS

A. ADHESIVE ANCHOR DESIGN TEMPERATURE RANGE IS 110°F (LONG TERM) AND 130°F (SHORT TERM).

B. IN ADDITION TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, THE FOLLOWING GUIDELINES SHALL BE FOLLOWED FOR INSTALLATION OF ADHESIVE ANCHORS:

a. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION.
b. ADHESIVE ANCHORS SHALL BE INSTALLED IN DRY CONCRETE, AND DURING DRY CONDITIONS.
c. ADHESIVE ANCHORS SHALL BE INSTALLED IN HOLES PREDRILLED WITH A CARBIDE TIPPED DRILL BIT.
d. ADHESIVE ANCHORS SHALL BE INSTALLED WITHIN THE TEMPERATURE RANGE SPECIFIED IN THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, BUT NOT OUTSIDE OF THE DESIGN TEMPERATURE RANGE.
e. LOADS SHALL NOT BE APPLIED TO ADHESIVE ANCHORS UNTIL THE FULL CURING TIME ASSOCIATED WITH THE INSTALLATION TEMPERATURE HAS ELAPSED.

C. INSTALLATION OF ADHESIVE ANCHORS SHALL BE PERFORMED BY CERTIFIED PERSONNEL. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT.

D. WHEN ANCHORING TO CONCRETE MASONRY WITH VOIDS, THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER.

CONCRETE MIXTURES

APPLICATION	EXPOSURE				F'c (AT 28-DAYS UNO)	MAXIMUM W/C	MAXIMUM (Cl-) CONTENT	AIR CONTENT	NOMINAL MAXIMUM AGGREGATE SIZE (NOTE 3)	MAXIMUM CONCRETE WEIGHT
FOOTINGS	F0	S0	W0	C0	3000 PSI	SEE NOTE 1	1	SEE NOTE 2	1"	150 PCF
INTERIOR SLAB-ON-GRADE	F0	S0	W0	C0	3000 PSI	SEE NOTE 1	1	SEE NOTE 2	1"	150 PCF
NORMAL WEIGHT ELEVATED SLAB ON STEEL DECK	F0	S0	W0	C0	4000 PSI	SEE NOTE 1	1	3% MAX	3/4"	150 PCF

NOTES:

1. WHERE NO MAXIMUM WATER CEMENT RATIO IS NOTED FOR DURABILITY, PROPORTIONING OF WATER/CEMENT RATIO SHALL BE AS REQUIRED FOR SPECIFIED CONCRETE MIX DESIGN.
2. WHERE AIR ENTRAINMENT IS NOT REQUIRED BY DESIGN, THE CONTRACTOR, INSTALLER, AND SUPPLIER MAY CHOOSE TO INCLUDE AIR ENTRAINMENT TO IMPROVE PLACEMENT AND FINISHING CHARACTERISTICS. AIR ENTRAINMENT IS NOT PERMITTED IN NORMAL WEIGHT CONCRETE TO RECEIVE A HARD TROWEL FINISH AND ENTRAPPED AIR SHALL NOT EXCEED 3%. SLABS SHALL BE PROPERLY FINISHED TO AVOID SURFACE IMPERFECTIONS, SUCH AS BLISTERING OR DELAMINATION.
3. COARSE AGGREGATE SHALL BE ASTM C 33, GRADED. SELECT GRADING CLASS PER TYPE OF CONSTRUCTION OR LOCATION USED, AND IN RELATION TO SPECIFIC WEATHERING REGION. AGGREGATE SHALL BE FROM A SINGLE SOURCE. #67 GRADING SHALL BE USED FOR CONCRETE WITH 3/4 INCH MAXIMUM; #57 GRADING SHALL BE USED FOR CONCRETE WITH 1 INCH MAXIMUM.
4. FINE AGGREGATE FOR INTERIOR SLAB-ON-GRADE SHALL CONSIST OF A MINIMUM 70% NATURAL SAND.
5. COMPLY WITH ACI 318-19 TABLE 19.3.2.1 FOR CEMENTITIOUS MATERIAL TYPES FOR SULFATE RESISTANCE.

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PES STRUCTURAL ENGINEERS

ADDRESS 1852 Century Place NE, Suite 201, Atlanta Georgia 30345
PHONE 770.457.5923 **WEB** www.pesengineers.com
PES PROJECT NUMBER: 0250683
PES GEORGIA LICENSE NUMBER: PEF000799
EXPIRATION DATE: 6/30/2028

Brown AND Caldwell
BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

No. SE000165
CHAD FORSTER
Chad A Forster
2026.08.18
17:23:38-04'00'

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: ARB
DRAWN: ALK
CHECKED: CAF
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

CONCRETE GENERAL NOTES & SCHEDULES

DRAWING NUMBER
S003

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STRUCTURAL STEEL

A. ALL STRUCTURAL STEEL WORK SHALL BE IN ACCORDANCE WITH DIVISION 05 SPECIFICATIONS.

B. SLOTTED HOLES FOR BEAM END CONNECTIONS ARE NOT ALLOWED FOR BEAMS ASSOCIATED WITH A BRACED FRAME OR MOMENT FRAME, OR NOTED WITH A REQUIRED AXIAL CONNECTION FORCE, UNLESS CONNECTIONS ARE DESIGNED AND CONSTRUCTED AS SLIP CRITICAL, USING CLASS A SURFACE PREPARATION AND PRE-TENSIONED BOLTS.

C. GUSSET PLATES AND STIFFENER PLATES SHALL BE 3/8" MINIMUM, WELDED BOTH SIDES CONTINUOUSLY, UNLESS NOTED OTHERWISE.

D. MEMBERS SUPPORTING DECK AT THE PERIMETER OF THE BUILDING SHALL BE CONTINUOUS EXCEPT AT EXPANSION JOINTS. SQUARE GROOVE WELD (BUTT JOINT) CONTINUOUS MEMBERS PLACED END TO END UNLESS NOTED OTHERWISE.

E. STEEL COLUMN BASE PLATES AND ANCHOR RODS SHALL HAVE MINIMUM 3" CONCRETE COVER PROTECTION.

F. POWDER ACTUATED FASTENERS (OR POWDER DRIVEN FASTENERS) SHALL BE ANCHORED IN STEEL WITH MINIMUM FASTENER SPACING OF 1 1/2" AND MINIMUM EDGE DISTANCE OF 1/2".

G. GROUT UNDER BEARING PLATES SHALL BE MIN. 6,000 PSI COMPRESSIVE STRENGTH. LOADING OF STRUCTURE SHALL NOT OCCUR UNTIL GROUT IS INSTALLED UNDER BASE PLATES AND PROPERLY CURED.

H. MATERIALS:

1. W-SHAPES: ASTM A 992.

2. CHANNELS, ANGLES, M-SHAPES, S-SHAPES: ASTM A 572, GRADE 50.

3. PLATE AND BAR: ASTM A 36. FOR PLATES CONNECTING ELEMENTS LESS THAN OR EQUAL TO 4" THICK: ASTM A572.

4. COLD-FORMED HOLLOW STRUCTURAL SECTIONS: ASTM A 500, GRADE C, STRUCTURAL TUBING.

5. STEEL PIPE: ASTM A 53, TYPE E OR S, GRADE B.

6. HIGH-STRENGTH A325 BOLTS, NUTS, AND WASHERS: ASTM F3125, GRADE A325, TYPE 1, HEAVY-HEX STEEL STRUCTURAL BOLTS; ASTM A563, GRADE DH, HEAVY-HEX CARBON-STEEL NUTS; AND ASTM F436, TYPE 1, HARDENED CARBON-STEEL WASHERS.

a. DIRECT-TENSION INDICATORS: ASTM F959, TYPE 325-1, COMPRESSIBLE-WASHER TYPE.

b. FINISH: PLAIN FINISH. AT EXTERIOR CONDITIONS AND GALVANIZED STEEL, HOT-DIP OR MECHANICALLY DEPOSITED ZINC COATING.

7. HIGH-STRENGTH A490 BOLTS, NUTS, AND WASHERS: ASTM F3125, GRADE A490, TYPE 1, HEAVY-HEX STEEL STRUCTURAL BOLTS; ASTM A563, GRADE DH, HEAVY-HEX CARBON-STEEL NUTS; AND ASTM F436, TYPE 1, HARDENED CARBON-STEEL WASHERS.

. a. DIRECT-TENSION INDICATORS: ASTM F959, TYPE 490-1, COMPRESSIBLE-WASHER TYPE.

. b. FINISH: PLAIN FINISH. AT EXTERIOR CONDITIONS AND GALVANIZED STEEL, HOT-DIP OR MECHANICALLY DEPOSITED ZINC COATING.

8. TENSION-CONTROL, HIGH-STRENGTH BOLT-NUT-WASHER ASSEMBLIES: ASTM F3125, GRADE F1852, TYPE 1, HEAVY-HEX OR ROUND HEAD ASSEMBLIES, CONSISTING OF STEEL STRUCTURAL BOLTS WITH SPLINED ENDS; ASTM A563, GRADE DH, HEAVY-HEX CARBON-STEEL NUTS; AND ASTM F436, TYPE 1, HARDENED CARBON-STEEL WASHERS.

. a. FINISH: PLAIN FINISH. AT EXTERIOR CONDITIONS AND GALVANIZED STEEL, HOT-DIP OR MECHANICALLY DEPOSITED ZINC COATING.

9. SHEAR CONNECTORS: ASTM A 108, AISI C-1015 THROUGH C-1020 HEADED-STUD TYPE, COLD FINISHED CARBON STEEL; AWS D1.1, TYPE B.

10. UNHEADED ANCHOR RODS: ASTM F1554, GRADE 36.

. a. CONFIGURATION: STRAIGHT.

. b. NUTS: ASTM A563 HEAVY-HEX CARBON STEEL.

. c. PLATE WASHERS: ASTM A36 CARBON STEEL.

. d. WASHERS: ASTM F436, TYPE 1, HARDENED CARBON STEEL.

. e. FINISH: PLAIN FINISH. AT EXTERIOR CONDITIONS AND GALVANIZED STEEL, HOT-DIP ZINC COATING, ASTM A153, OR MECHANICALLY DEPOSITED ZINC COATING, ASTM B695.

11. THREADED RODS: ASTM A 36.

12. NONMETALLIC, SHRINKAGE-RESISTANT GROUT: ASTM C 1107, FACTORY-PACKAGED, NONMETALLIC AGGREGATE GROUT, NONCORROSIVE AND NONSTAINING, MIXED WITH WATER TO CONSISTENCY SUITABLE FOR APPLICATION AND A 30-MINUTE WORKING TIME.

I. CONNECTIONS:

1. WHERE COMPLETE CONNECTION DESIGN IS NOT INDICATED IN THE STRUCTURAL DRAWINGS, CONNECTIONS SHALL BE COMPLETED BY THE STRUCTURAL STEEL FABRICATOR IN ACCORDANCE WITH DIVISION 05 PERFORMANCE SPECIFICATION REQUIREMENTS.

2. CONNECTIONS SHALL BE DESIGNED AS SNUG-TIGHT CONNECTIONS WITH THREADS IN THE SHEAR PLANE, UNLESS NOTED OTHERWISE. ALL BOLTS NOTED AS PRE-TENSIONED OR SLIP CRITICAL IN THE DRAWINGS SHALL BE TIGHTENED TO THE MINIMUM PRETENSION VALUE SHOWN IN TABLE J3.1 OF THE AISC STEEL MANUAL, USING COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATOR DEVICES OR TENSION-CONTROL, HIGH STRENGTH BOLT-NUT-WASHER ASSEMBLIES.

3. BOLTED CONNECTIONS SHALL CONSIST OF A MINIMUM OF (2) BOLTS. THE MINIMUM CONNECTION LENGTH SHALL NOT BE LESS THAN 0.5x"T", WHERE "T" IS THE DISTANCE BETWEEN WEB TOES OF FILLETS AT THE TOP AND BOTTOM OF THE WEB OF A ROLLED SECTION.

WELDING

A. MINIMUM WELD SIZE SHALL BE 3/16" FILLET WELD UNLESS NOTED OTHERWISE.

B. WELD FILLER METALS SHALL COMPLY WITH AWS REQUIREMENTS FOR THE APPLICABLE WELD PROCESS AND BASE MATERIAL, AND AS FOLLOWS:

1. USE 70 KSI (E70XX) MINIMUM ELECTRODES UNLESS NOTED OTHERWISE.

2. USE 60 KSI (E60XX) ELECTRODES FOR WELDING AT COLD FORMED STEEL FRAMING, AND FOR PUDDLE WELDS OF COMPOSITE DECK, ROOF DECK AND NON-COMPOSITE DECK TO SUPPORTS WHEN DECK THICKNESS IS 22 GAGE OR GREATER.

3. USE 70 KSI (E70XX) ELECTRODES FOR PUDDLE WELDS OF COMPOSITE DECK, ROOF DECK AND NON-COMPOSITE DECK TO SUPPORTS WHEN DECK THICKNESS IS LESS THAN 22 GAGE AND WELDS ARE MADE THROUGH WELD WASHERS.

4. USE 80 KSI (E80XX) ELECTRODES FOR WELDING A706 REINFORCING STEEL.

C. FIELD WELDING SHALL BE SHOWN ON SHOP DRAWINGS AND ERECTION DRAWINGS.

D. REFER TO ARCHITECTURAL DOCUMENTS FOR EXPOSED STEEL AND JOINT LOCATIONS AND REQUIREMENTS. ALL EXPOSED WELDED CONNECTIONS SHALL BE GROUND SMOOTH AND SUBJECT TO ARCHITECT APPROVAL. FABRICATOR SHALL ALTER JOINT DETAILING AS REQUIRED TO ENSURE THAT EFFECTIVE THROAT SPECIFIED IN WELD DETAIL IS MAINTAINED AFTER GRINDING OF WELD SURFACE.

E. WELDS INDICATED IN STRUCTURAL DETAILS ARE INTENDED AS THE BASIS OF DESIGN. FABRICATOR AND ERECTOR HAVE THE OPTION TO PROPOSE THE USE OF ALTERNATIVE WELDING PROCEDURES. ALTERNATIVE WELDS SHALL BE INDICATED ON SHOP DRAWINGS FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD.

F. REINFORCING STEEL WELDING SHALL CONFORM TO AWS D1.4, STRUCTURAL WELDING CODE - REINFORCING STEEL BY AMERICAN WELDING SOCIETY FOR COMPLIANCE WITH ACI 318-25, SECTION 26.6.4.2 (A)

COLD-FORMED STEEL FRAMING (STUDS AND JOISTS)

A. ALL COLD-FORMED STEEL FRAMING WORK SHALL BE IN ACCORDANCE WITH DIVISION 05 SPECIFICATIONS.

B. ISOLATION OF NON-LOAD-BEARING FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF VERTICAL LOADS SHALL ALLOW FOR A MINIMUM OF 1" MOVEMENT FROM LIVE LOAD.

C. SEE ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING WALLS AND TO VERIFY ALL DIMENSIONS SHOWN FOR LOAD BEARING WALLS.

METAL FABRICATION

A. ALL METAL FABRICATION WORK SHALL BE IN ACCORDANCE WITH DIVISION 05 SPECIFICATIONS.

HOT-DIP GALVANIZED STRUCTURAL STEEL

A. ALL HOT-DIP GALVANIZATION WORK SHALL BE IN ACCORDANCE WITH DIVISION 05 SPECIFICATIONS.

B. ALL BOLTS USED FOR CONNECTIONS AT GALVANIZED STEEL MEMBERS SHALL BE GALVANIZED PER STANDARDS NOTED.

C. REFER TO ASTM A-143, A-384 AND D-6386 FOR ADDITIONAL STANDARD PRACTICES RELATED TO SPECIAL CONDITIONS FOR HOT-DIP GALVANIZING.

D. GALVANIZED FAYING SURFACES AT SLIP CRITICAL CONNECTIONS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A-123 AND SHALL BE ROUGHENED BY MEANS OF HAND WIRE BRUSHING. POWER WIRE BRUSHING IS NOT PERMITTED.

STEEL JOIST FRAMING

A. ALL STRUCTURAL STEEL JOIST AND JOIST GIRDER WORK SHALL BE IN ACCORDANCE WITH DIVISION 05 SPECIFICATIONS.

B. JOISTS SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES OR OTHER SPECIFICALLY LOCATED FRAMING MEMBERS UNLESS NOTED OTHERWISE.

C. HORIZONTAL AND DIAGONAL BRIDGING IS REQUIRED AND SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH SJI STANDARD SPECIFICATIONS.

D. STEEL JOIST FRAMING SHALL BE DESIGNED FOR WIND NET UPLIFT:

1. ROOF JOISTS: C&C NET UPLIFT = 15 PSF (ASD); MWFRS NET UPLIFT = 6 PSF (ASD).

E. JOIST DESIGN SHALL ACCOUNT FOR LATERAL STABILITY OF THE JOIST TOP CHORD UNDER FULL DESIGN LOADS AT CONDITIONS WHERE A STRUCTURAL STEEL ROOF DECK IS NOT DIRECTLY ATTACHED TO THE TOP CHORD, INCLUDING BUT NOT LIMITED TO AREAS WHERE JOISTS PASS THROUGH OPENINGS AND JOISTS SUPPORTING STANDING SEAM ROOFING.

COMPOSITE STEEL FLOOR DECK

A. ALL COMPOSITE STEEL FLOOR DECK WORK SHALL BE IN ACCORDANCE WITH DIVISION 05 SPECIFICATIONS.

B. STEEL COMPOSITE DECK SHALL BE ASTM A653 GALVANIZED G60, WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI, UNLESS NOTED OTHERWISE.

C. DECK SHALL BE SUPPORTED BY A MINIMUM OF FOUR SUPPORT LOCATIONS (THREE SPAN CONDITION).

D. COMPOSITE STEEL FLOOR DECK SHALL BE ATTACHED TO THE SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS. WHEN DECK THICKNESS IS LESS THAN 0.028 INCHES, WELDS SHALL BE MADE THROUGH MIN. 16 GAUGE WELDING WASHERS. SPACING OF WELDS SHALL BE AS FOLLOWS:

1. AT BUTTED ENDS: AT 12" OC

2. AT PERIMETER/EDGES OF BUILDING: AT 12" OC

3. INTERMEDIATE SUPPORTS: AT 12" OC

4. SIDE LAPS: AT MID-SPAN OR AT 3'-0" OC, WHICHEVER IS SMALLER. HEX HEAD SCREWS SIZE #10 OR CRIMPING (BUTTON PUNCHING) MAY BE USED AT SIDE LAP CONNECTIONS.

STEEL ROOF DECK

A. ALL STEEL ROOF DECK WORK SHALL BE IN ACCORDANCE WITH DIVISION 05 SPECIFICATIONS

B. ROOF DECK FINISHES SHALL BE AS FOLLOWS:

1. INTERIOR, NOT EXPOSED TO VIEW: ASTM A1008 FACTORY PRIME PAINTED.

2. INTERIOR, EXPOSED TO VIEW: ASTM A1008 FACTORY PRIME PAINTED TO RECEIVE FINISH PAINT. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS.

3. DECK RECEIVING SPRAY APPLIED FIREPROOFING AND/OR CONCRETE TOPPING: ASTM 653 GALVANIZED G60.

4. EXTERIOR EXPOSURE (TOP OR BOTTOM OF DECK EXPOSED TO ELEMENTS): ASTM A653 GALVANIZED G90.

C. MINIMUM YIELD STRENGTH SHALL BE 50,000 PSI, UNLESS NOTED OTHERWISE.

D. DECK SHALL BE SUPPORTED BY A MINIMUM OF FOUR SUPPORT LOCATIONS (THREE SPAN CONDITION).

E. MINIMUM FINAL ROOF SLOPE SHALL BE 1/4" PER 1 FT. WHERE SLOPE IS NOT ACHIEVED BY STEEL STRUCTURE, CREATE IT WITH INSULATION ABOVE THE DECK (SEE ARCHITECTURAL DRAWINGS).

F. STEEL ROOF DECK SHALL BE ATTACHED TO STEEL SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS AND TO COLD FORMED STEEL FRAMING WITH #12 HEX HEAD SCREWS. WHEN DECK THICKNESS IS LESS THAN 0.028 INCHES, WELDS MUST BE MADE THROUGH MIN. 16 GAUGE WELDING WASHERS. SPACING OF WELDS SHALL BE AS FOLLOWS

1. AT PERIMETER/EDGES OF BUILDING: AT 36/4 PATTERN

2. INTERMEDIATE SUPPORTS: AT 36/4 PATTERN

3. SIDE LAPS: PROVIDE 3 CONNECTIONS PER SPAN. HEX HEAD SCREWS SIZE #10 SHALL BE USED AT SIDE LAP CONNECTIONS.

COMPOSITE STEEL FLOOR SYSTEM

A. STEEL HEADED STUD ANCHORS (SHEAR CONNECTORS / SHEAR STUDS) SHALL BE TYPE B AND CONFORM TO AWS D1.1 AND ASTM A108 SPECIFICATIONS FOR 1010 THROUGH 1020 MILD STEELS. MINIMUM TENSILE STRENGTH= 65,000 PSI.

B. WHERE COMPOSITE BEAM DESIGNATION OCCURS ON FRAMING PLAN THROUGH THE CALLING OUT OF A NUMBER OF REQUIRED STEEL HEADED STUD ANCHORS, FLOOR AND BEAM ARE DESIGNED TO ACT COMPOSITE BY USE OF SHEAR STUDS ON TOP BEAM FLANGE.

1. SEE DISTRIBUTED STEEL HEADED STUD ANCHOR PLACEMENT DETAIL FOR PLACEMENT REQUIREMENTS.

2. IF LONGITUDINAL HEADED STUD ANCHOR SPACING EXCEEDS 12", ATTACH DECK TO SUPPORT WITH PUDDLE WELDS BETWEEN STUDS.

C. ALL STEEL HEADED STUD ANCHORS SHALL BE 3/4" DIAMETER x (FLUTE HT. + 1 1/2") AFTER WELDING, UNLESS OTHERWISE NOTED.

1. MINIMUM CLEARANCE FROM TOP OF STUD TO TOP OF SLAB IS 1".

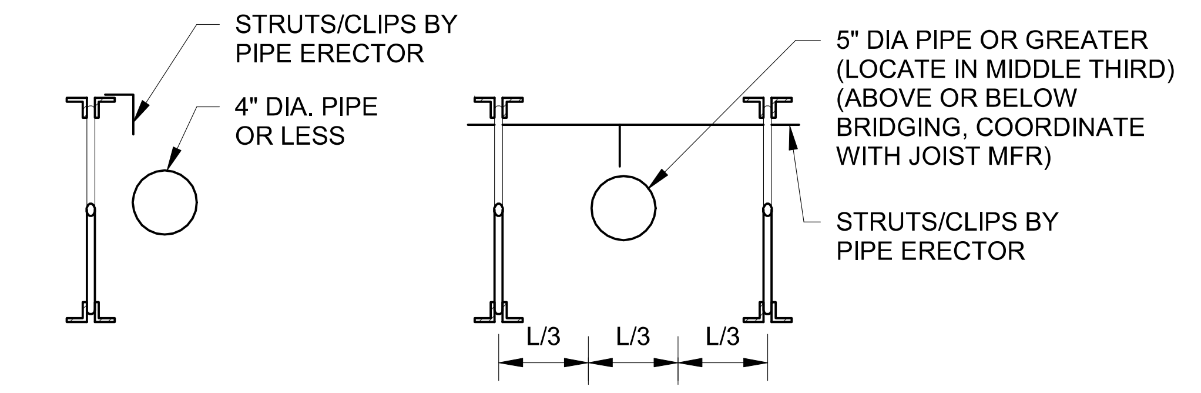
D. MAINTAIN INDICATED MINIMUM SLAB THICKNESS OVER BEAMS THROUGHOUT SPAN. ELEVATED SLAB SHALL BE PLACED WITH MINIMUM THICKNESS THROUGHOUT WITH NO MORE THAN 1/2" OF ADDITIONAL THICKNESS IN ANY LOCATION TO HELP WITH THE LEVELING OF THE SLAB.

WATER PIPING SUPPORT SCHEDULE

PIPE DIA (IN)	PIPE WEIGHT (LB/FT)	PIPE SUPPORT SPACING (MAX) (FT)
2 1/2	6.0	12
3	8.5	12
4	12.0	12
5	17.5	12
6	23.5	6
8	37.5	6

NOTES:

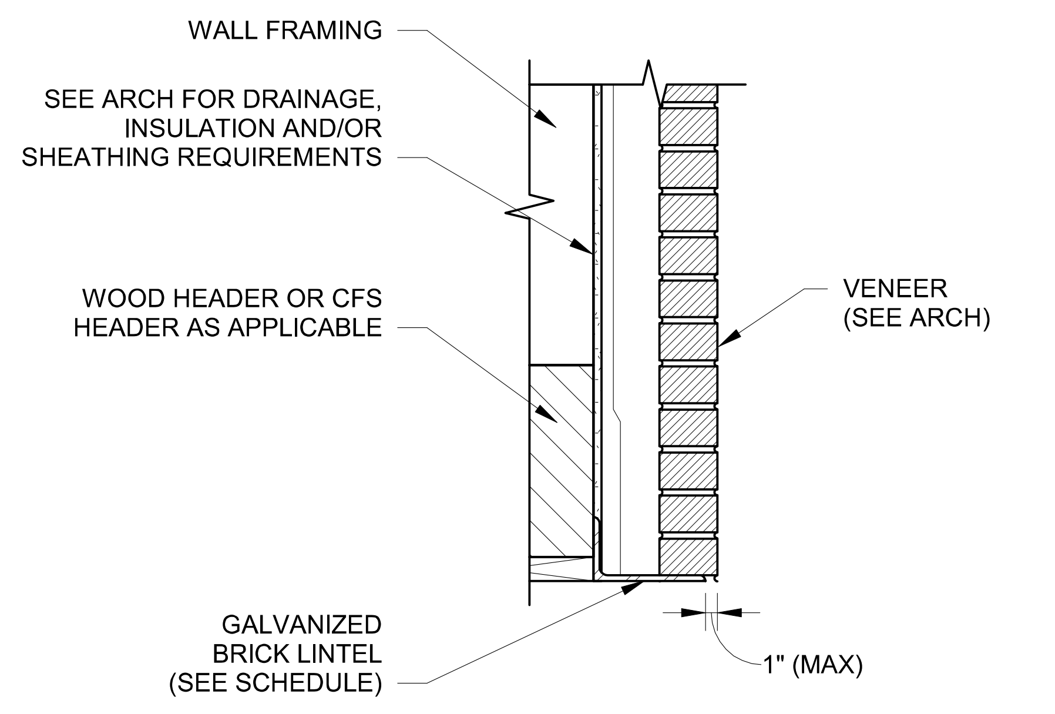
1. PIPES IN TABLE ARE SCHEDULE 10 TYPE. ESFR MANUFACTURER TO SUBMIT DOCUMENTATION FOR ALTERNATIVE PIPING NOT NOTED.
2. PIPE WEIGHT INCLUDES: PIPE + INSULATION + WATER
3. EXACT PIPE LOCATIONS TO BE COORDINATED WITH MECHANICAL DRAWINGS.
4. PIPES RUNNING PARALLEL TO JOISTS WITH DIAMETER GREATER THAN 4" SHALL BE TRAPEZZED BETWEEN (2)-JOISTS AND SUPPORTED IN THE MIDDLE THIRD OF THE JOIST SPACING. PIPES RUNNING PERPENDICULAR GREATER THAN 4" IN DIAMETER SHALL BE SUPPORTED FROM EACH JOIST.
5. MEMBER SIZES ON PLANS HAVE BEEN ADJUSTED TO SUPPORT WATER PIPING LOADS IN THIS TABLE.
6. ANY PIPE OR COMBINATION OF PIPES WITH TOTAL DIAMETERS GREATER THAN 8" SHALL BE HUNG PER THE DIRECTION OF THE ARCHITECT - NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH WORK.
7. NO PIPING SHALL RUN BELOW THE BOTTOM CHORD OF THE BAR JOIST.


STRUTS/CLIPS BY PIPE ERECTOR
4" DIA. PIPE OR LESS
5" DIA PIPE OR GREATER (LOCATE IN MIDDLE THIRD) (ABOVE OR BELOW BRIDGING, COORDINATE WITH JOIST MFR)
STRUTS/CLIPS BY PIPE ERECTOR
L/3
L/3
L/3

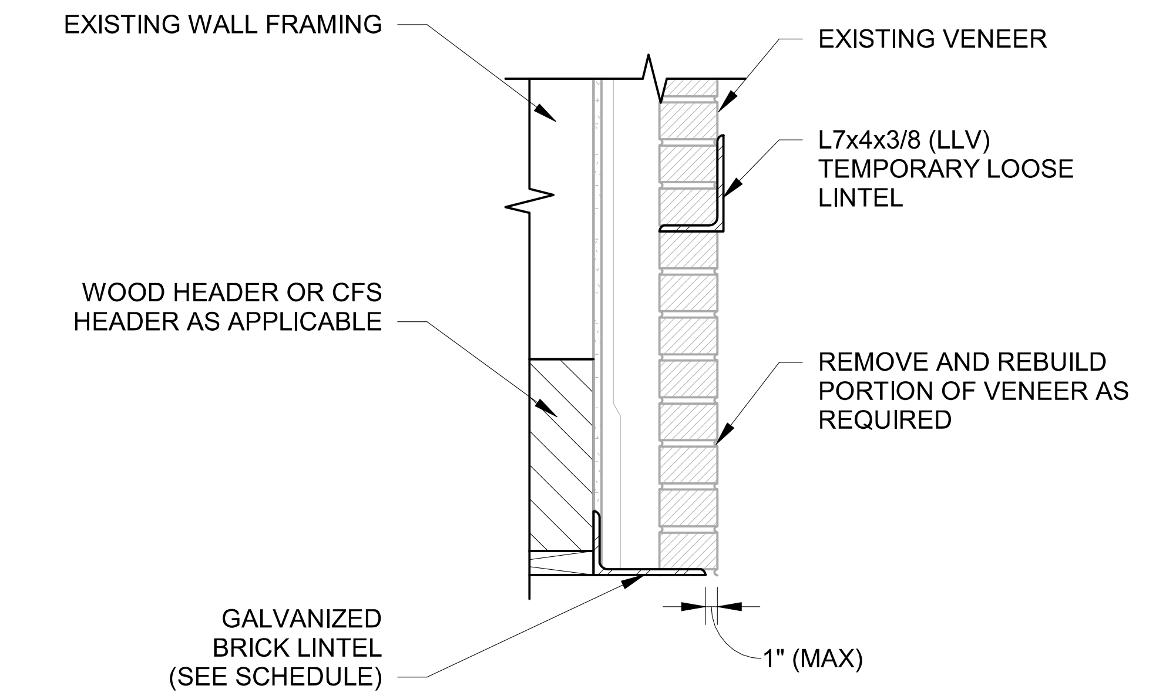
BRICK/4" CMU VENEER LINTEL SCHEDULE (FLUSH TO STUD)

SPAN (OPENING)	LINTEL SIZE
≤ 3'-8"	L7 x 4 x 3/8 (LLH)
> 3'-8", ≤ 6'-4"	L7 x 4 x 3/8 (LLH)
> 6'-4", ≤ 11'-4"	BENT PLATE 7" x 7" x 3/8"

DETAILS:


WALL FRAMING
SEE ARCH FOR DRAINAGE, INSULATION AND/OR SHEATHING REQUIREMENTS
WOOD HEADER OR CFS HEADER AS APPLICABLE
VENEER (SEE ARCH)
GALVANIZED BRICK LINTEL (SEE SCHEDULE)
1" (MAX)

NEW BRICK VENEER


EXISTING WALL FRAMING
EXISTING VENEER
L7x4x3/8 (LLV) TEMPORARY LOOSE LINTEL
WOOD HEADER OR CFS HEADER AS APPLICABLE
REMOVE AND REBUILD PORTION OF VENEER AS REQUIRED
GALVANIZED BRICK LINTEL (SEE SCHEDULE)
1" (MAX)

NEW OPENING IN EXISTING BRICK VENEER

NOTES:

1. PROVIDE 4" BEARING MINIMUM AT EACH END OF LINTEL ANGLES.

ALPHA BLDG SET 09-01-2026

PES STRUCTURAL ENGINEERS
ADDRESS 1852 Century Place NE, Suite 201, Atlanta Georgia 30345
PHONE 770.457.5923 **WEB** www.pesengineers.com
PES PROJECT NUMBER: 0250683
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EXPIRATION DATE: 6/30/2028

Plot Date: 8/18/2026 2:16:14 PM Path: Autodesk Docs://NCWSA Admin Bldg._V250250683-NCWSA Office Addition-R25-STRUCT.rvt

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

No. SE000165 STRUCTURAL CHAD FORSTER
Chad A Forster
2026.08.18
17:23:39-04'00'

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: ARB
DRAWN: ALK
CHECKED: CAF
CHECKED:
APPROVED:

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

STEEL GENERAL NOTES & SCHEDULES

DRAWING NUMBER
S005

ALPHA BLDG SET 09-01-2026

WOOD ROOF SHEATHING

A. 19/32" (5/8") PERFORMANCE CATEGORY APA RATED SHEATHING, 40/20, EXPOSURE 1 (SLOPED ROOF AREAS, UNLESS NOTED OTHERWISE).
B. LONG SIDE OF PANEL SHALL BE PERPENDICULAR TO THE SUPPORT WITH THE END JOINT OF THE PANEL ALIGNED WITH THE CENTER OF THE TWO ADJACENT PANELS. (NO CONTINUOUS PANEL JOINTS). PANELS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS.
C. MINIMUM SIZE OF CONNECTION SHALL BE 6d COMMON NAILS TO WOOD, UNLESS NOTED OTHERWISE ON PLAN. MAXIMUM SPACING OF CONNECTION SHALL BE PER THE "TYPICAL FLOOR/ROOF DIAPHRAGM CONNECTION - PLAN" DETAIL, UNLESS NOTED OTHERWISE ON PLAN. SHEATHING SHALL ALSO BE GLUED TO THE SUPPORTING JOISTS.
D MINIMUM SIZE OF CONNECTION SHALL BE #10 SCREWS TO STEEL STUDS AND JOISTS. MAXIMUM SPACING OF CONNECTION SHALL BE 4" AT PERIMETER AND 12" AT INTERMEDIATE SUPPORT, UNLESS NOTED OTHERWISE ON PLAN.
E. SUITABLE EDGE SUPPORT SHALL BE PROVIDED AS RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION BY USE OF PANEL CLIPS OR LUMBER BLOCKING BETWEEN JOISTS OR TRUSSES. PANEL END JOINTS SHALL OCCUR OVER FRAMING. PANELS SHALL BE BLOCKED WITH 2X6 MINIMUM AT PERIMETER OF ROOF AND AT DIRECTIONAL CHANGES.

WOOD WALL SHEATHING

A. 7/16" PERFORMANCE CATEGORY APA RATED SHEATHING, 24/16, EXPOSURE 1 (UNLESS NOTED OTHERWISE).
B. MINIMUM SIZE OF CONNECTION SHALL BE 8d COMMON NAILS TO WOOD SHEAR WALLS. MAXIMUM SPACING OF CONNECTION SHALL BE PER THE WOOD SHEAR WALL SCHEDULE. ALL UNSUPPORTED EDGES SHALL BE BLOCKED WITH 2x MEMBERS.
C. MINIMUM SIZE OF CONNECTION SHALL BE 8d COMMON NAILS TO WOOD EXTERIOR NON-SHEAR WALLS. MAXIMUM SPACING OF STANDARD CONNECTION SHALL BE 12" AT PERIMETER OF SHEETS AND 12" AT INTERMEDIATE STUDS. ALL UNSUPPORTED EDGES SHALL BE BLOCKED WITH 2x MEMBERS.
D. MINIMUM SIZE OF CONNECTION SHALL BE #8 SCREWS TO STEEL STUDS. MAXIMUM SPACING OF STANDARD CONNECTION SHALL BE 6" AT PERIMETER OF SHEETS AND 12" AT INTERMEDIATE STUDS. ALL UNSUPPORTED EDGES SHALL BE BLOCKED WITH STEEL STUD MEMBERS.

WOOD FRAMING

A. CONFORM TO NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, PUBLISHED BY THE AMERICAN WOOD COUNCIL, AWC NDS AND AWC SPECIAL DESIGN PROVISIONS FOR WIND & SEISMIC.
B. UNLESS NOTED OTHERWISE, USE SPRUCE-PINE-FIR , 19% MAX. MOISTURE CONTENT, AS FOLLOWS:

1. BEAMS, HEADERS	NO. 1/NO. 2
2. LOAD BEARING STUDS, & EXTERIOR STUDS	NO. 1/NO. 2
3. JOISTS, PURLINS	NO. 1/NO. 2
4. SUB-PURLINS, PLATES, BLOCKING	NO. 1/NO. 2
5. NON-LOAD BEARING INTERIOR STUDS	STUD GRADE

C. ANY WOOD IN CONTACT WITH CONCRETE, MASONRY, SOIL, OR EXPOSED TO THE ELEMENTS SHALL BE PRESSURE TREATED.
D. METALS (PLATES, NAILS, BOLTS, ETC) IN CONTACT WITH PRESSURE TREATED, FIRE-RETARDANT OR WOLMANIZED WOOD SHALL HAVE G185 ZINC GALVANIZED COATING. ALL OTHER METALS IN CONTACT WITH WOOD SHALL HAVE G90 ZINC GALVANIZED COATING.
E. METAL CONNECTORS SHALL BE FASTENED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO DEVELOP THE MAXIMUM PUBLISHED CAPACITY.
F. TIMBER FASTENING SHALL BE PER GOVERNING BUILDING CODE "MINIMUM FASTENING SCHEDULE" UNLESS NOTED AS GREATER ON CONSTRUCTION DRAWINGS. CONNECTORS TO BE SIMPSON OR APPROVED ALTERNATE, WITH MINIMUM CAPACITY AS NOTED.
G. TOE NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES TO THE PIECE AND BE STARTED AT 1/3 THE NAIL LENGTH FROM THE END OF THE PIECE.
H. ALL BOLTS SHALL BE FURNISHED WITH STANDARD NUT WASHER.
I. ALL NAILS SHALL BE COMMON WIRE NAILS.
J. GENERAL STRUCTURAL WOOD NOTES:
    1. (3)-2x, (2)-2x AND (2)-2x + 1/2" PLYWOOD PLATE BEAMS SHALL BE SPIKED TOGETHER W/12d NAILS @ 12" OC TOP & BOTTOM. (4)-2x AND LARGER BEAMS SHALL BE BOLTED TOGETHER W/ 1/2" DIAMETER BOLTS @ 2'-6" OC MAX. TOP & BOTTOM.
    2. ROOF BEAMS WITH SPANS GREATER THAN 5'-0" SHALL BE ANCHORED EACH END WITH (1)-1/4" X 16 GA. (MIN.) STRAP WITH (4)-8D NAILS INTO BEAM AND INTO JAMB STUDS.
    3. MULTIPLE STUD OR SOLID COLUMNS SHALL BE CONTINUOUS FROM FRAMING LEVEL, WHERE SHOWN, TO THE FOUNDATION. THIS WILL REQUIRE SOLID BLOCKING WITHIN THE FLOOR FRAMING EQUAL TO THE COLUMN DIMENSION (SEE TYPICAL DETAIL).
    4. MULTIPLE STUD PACK COLUMNS SHALL BE CONNECTED LATERALLY TO ONE ANOTHER WITH 16d NAILS AT 16" OC VERTICALLY.
K. PROVIDE ONE ROW OF BRIDGING FOR EACH 8'-0" SPAN FOR ROOF JOISTS.
L. WALL SHEATHING NOTED ON STRUCTURAL DRAWINGS OR SCHEDULES SHALL BE ATTACHED DIRECTLY TO THE FACE OF FRAMING MEMBERS. SEE ARCHITECTURAL DRAWINGS FOR ALL NON-STRUCTURAL SHEATHING REQUIREMENTS. ADDITIONAL SHEATHING REQUIRED BY ARCHITECTURAL DRAWINGS SHALL BE ATTACHED TO THE OUTSIDE FACE OF STRUCTURAL SHEATHING.
M. AT CONTRACTOR'S OPTION, FINGER-JOINTED LUMBER MAY BE USED FOR WALL STUDS ONLY.
N. ALL NON-LOAD BEARING, AND NON-SHEAR WALLS MAY BE ANCHORED USING POWDER-DRIVEN FASTENERS, 3/4" MAX. EMBEDMENT DEPTH.
O. ALL WALL DOUBLE TOP PLATES SHALL BE LAPPED AT CORNERS AND INTERSECTIONS AND FASTENED PER GOVERNING BUILDING CODE "MINIMUM FASTENING SCHEDULE" UNLESS NOTED OTHERWISE. ALL DOUBLE PLATE END JOINTS SHALL BE OFFSET AT LEAST 48". DOUBLE PLATES TO BE FASTENED TOGETHER PER GOVERNING BUILDING CODE "MINIMUM FASTENING SCHEDULE", UNLESS NOTED OTHERWISE. AT LOAD-BEARING WALLS, FASTEN EA. PLATE TO PLATE WITH SEE KEY DETAIL.
P. JOISTS OR STUDS SHALL NOT BE CUT TO INSTALL PLUMBING OR WIRING UNLESS METAL OR WOOD SIDE PIECES/PLATES ARE PROVIDED TO STRENGTHEN THE MEMBER.
Q. WALL FRAMING MAY BE PANELIZED (WITHOUT GYPSUM WALLBOARD). SUBMIT PANEL DRAWINGS FOR REVIEW.
R. LET-IN BRACING FOR WALL PANELS IS NOT ALLOWED. SHEATHING FASTENED TO FACE OF WALL AT SHOP MAY SERVE AS PANEL BRACING.

PARALLEL STRAND LUMBER (PARALLAM)

A. PARALLEL STRAND LUMBER SHALL BE MANUFACTURED BY WEYERHAEUSER OR AN APPROVED EQUAL.
B. 1.8E PARALLEL STRAND LUMBER FOR SIZES 3 1/2" x 3 1/2", 3 1/2" x 5 1/4", 3 1/2" x 7", 5 1/4" x 5 1/4", 5 1/4" x 7" AND 7" x 7" SHALL HAVE THE FOLLOWING PROPERTIES:

ALLOWABLE BENDING STRESS	2400 PSI
ALLOWABLE COMPRESSION PARALLEL TO GRAIN	2500 PSI
ALLOWABLE HORIZONTAL SHEAR	190 PSI
ALLOWABLE COMPRESSION PERPENDICULAR TO GRAIN	545 PSI
MODULUS OF ELASTICITY	1,800,000 PSI
SHEAR MODULUS OF ELASTICITY	112,500 PSI
EQUIVALENT SPECIFIC GRAVITY	0.5

C. 2.0E PARALLEL STRAND LUMBER FOR ALL OTHER SIZES SHALL HAVE THE FOLLOWING PROPERTIES:

ALLOWABLE BENDING STRESS	2900 PSI
ALLOWABLE COMPRESSION PARALLEL TO GRAIN	2900 PSI
ALLOWABLE HORIZONTAL SHEAR	290 PSI
ALLOWABLE COMPRESSION PERPENDICULAR TO GRAIN	625 PSI
MODULUS OF ELASTICITY	2,000,000 PSI
SHEAR MODULUS OF ELASTICITY	125,000 PSI
EQUIVALENT SPECIFIC GRAVITY	0.5

D. PARALLEL-STRAND LUMBER SHALL NOT HAVE HOLES OR NOTCHES CUT INTO THE BEAM WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.

LAMINATED VENEER LUMBER (MICROLLAM)

A. LAMINATED VENEER LUMBER SHALL BE 2.0E MICROLLAM LVL AS MANUFACTURED BY WEYERHAEUSER OR AN APPROVED EQUAL.
B. LAMINATED VENEER LUMBER SHALL HAVE THE FOLLOWING PROPERTIES:

ALLOWABLE BENDING STRESS	2600 PSI
ALLOWABLE COMPRESSION PARALLEL TO GRAIN	2510 PSI
ALLOWABLE HORIZONTAL SHEAR	285 PSI
ALLOWABLE COMPRESSION PERPENDICULAR TO GRAIN	750 PSI
MODULUS OF ELASTICITY	2,000,000 PSI
SHEAR MODULUS OF ELASTICITY	125,000 PSI

C. LAMINATED VENEER LUMBER SHALL NOT HAVE HOLES OR NOTCHES CUT INTO THE BEAM WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD.

PRE-ENGINEERED WOOD ROOF TRUSSES

A. TRUSSES SHALL BE SPACED @ 24" OC (UNLESS NOTED OTHERWISE IN THE CONSTRUCTION DRAWINGS). SEE PLANS FOR TRUSS LOCATION AND SPANS AS WELL AS SPECIAL TRUSS LOCATIONS REQUIRED FOR NON-TYPICAL ROOF LOADING.
B. ROOF TRUSS DESIGN GRAVITY LOADS SHALL BE AS FOLLOWS:
    1. AT TYPICAL ROOF AREAS: SEE LOAD MAPS ON S002A
    2. TRUSSES SHALL BE DESIGNED FOR ADDITIONAL WIND LOAD AND SEISMIC LOAD AS APPLICABLE (SEE DESIGN LOAD GENERAL NOTES).
    3. FOR ALL ROOF TRUSSES, SEE MECHANICAL DRAWINGS AND ROOF PLAN FOR EQUIPMENT WEIGHTS, LOCATIONS AND ACCESS PATHS IN ROOF TRUSSES. IF EQUIPMENT WEIGHTS PLUS 30 PSF LIVE LOAD ARE MORE SEVERE THAN THE 60 PSF UNIFORM LIVE LOAD, USE THE WORST CASE LOAD FOR TRUSS DESIGN. DESIGN PITCHED ROOF TRUSSES FOR UNBALANCED SNOW LOAD PER GOVERNING BUILDING CODE OR LIVE LOADS NOTED, WITH THE WORST CASE LOAD GOVERNING DESIGN.
C. SPECIAL LOADS FROM FIRE SPRINKLER, MECHANICAL, PLUMBING, OR OTHER EQUIPMENT HAVE NOT BEEN CONSIDERED AND SHALL BE COORDINATED BY THE TRUSS DESIGNER. TRUSSES SUPPORTING THESE SPECIAL LOADS SHALL BE DESIGNED FOR THESE LOADS IN ADDITION TO THE TYPICAL UNIFORM LOADS.
D. MAXIMUM DEFLECTION OF TRUSSES SHALL BE L/240 FOR DL+LL AND L/360 FOR LL.
E. MINIMUM TRUSS CHORDS SIZE SHALL BE 2X4.
F. WOOD TRUSSES SHALL BE FULLY ENGINEERED AND FABRICATED BY THE MANUFACTURER. SIGNED AND SEALED SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD AND SHALL INCLUDE TRUSS SPACING, SIZE OF MEMBERS, CONNECTIONS, AND ALL BRACING. DESIGN SHALL CONSIDER DEAD LOAD, LIVE LOAD, AND ALL SPECIAL LOADS INCLUDING FROM FIRE SPRINKLERS, MECHANICAL, AND PLUMBING. CALCULATIONS SHALL BE SUBMITTED TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD AND SHALL BE SIGNED AND SEALED BY A REGISTERED DESIGN PROFESSIONAL LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED.
G. METAL CONNECTOR PLATES (TRUSS CONNECTORS, MENDING PLATES) SHALL BE MANUFACTURED FROM NO LESS THAN 20 GAUGE G60 GALVANIZED STEEL (1.25 OZ. PER SF) AND 33,000 PSI YIELD STRENGTH. CONNECTORS SHALL HAVE NAIL LIKE PROJECTIONS. METAL CONNECTORS SHALL CONFORM TO TRUSS PLATE INSTITUTE STANDARD TPI 1.
H. WOOD TRUSSES ALONG A VERTICAL PLANE OF THE BUILDING SHALL BE CONTINUOUS. TRUSSES MAY BE SPLICED FOR SHIPPING PURPOSES AND CONNECTED IN THE FIELD WITH METAL CONNECTOR PLATES.
I. ALL CONNECTIONS BETWEEN TRUSSES SHALL BE DESIGNED AND SPECIFIED BY THE TRUSS DESIGN ENGINEER, INCLUDING REQUIRED HARDWARE.
J. WHERE THE ROOF TRUSS CONNECTS TO ANOTHER TRUSS OR BEAM, IT SHALL BE CONNECTED WITH A METAL TRUSS ANCHOR CAPABLE OF RESISTING GRAVITY AND WIND LOADS (AS WELL AS SEISMIC WHERE APPLICABLE). ANCHOR TO BE SELECTED AND DESIGNED BY TRUSS DESIGNER.
K. TRUSS DESIGNER SHALL INDICATE THAT ALL HIPS, VALLEYS, AND RIDGES NOT SUPPORTED BY A TRUSS MEMBER SHALL HAVE A DOUBLE 2x8 FRAMING MEMBER SPANNING BETWEEN TRUSSES WITH SIMPSON CLIP CONNECTION EACH END.
L. ALL TRUSS SHOP DRAWINGS INCLUDING LATERAL BRACING DETAILS SHALL BE AVAILABLE AT THE JOBSITE DURING TIMES OF INSPECTION AND SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD.
M. ROOF TRUSSES SHALL BE FABRICATED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
N. CONCENTRATED LOADS SHALL BE SUPPORTED AT PANEL POINTS ONLY. ANY LOADS SUSPENDED FROM TRUSSES MUST BE APPLIED TO EACH TRUSS UNIFORMLY, SPACING OF HANGERS NOT TO EXCEED 2'-0" OC IN ANY DIRECTION.
O. GENERAL CONTRACTOR SHALL NOT CUT OR ALTER ANY TRUSS MEMBER.
P. GENERAL CONTRACTOR SHALL INSTALL TEMPORARY BRACING TO HOLD THE TRUSSES TRUE AND PLUMB AND IN A SAFE CONDITION UNTIL PERMANENT TRUSS BRACING AND BRIDGING CAN BE SOLIDLY NAILED IN PLACE TO FORM A STRUCTURALLY SOUND FRAMING SYSTEM. REFER TO SBCA/TPI BCSI-B1 "GUIDE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF TRUSSES", BCSI-B7 "GUIDE FOR HANDLING, INSTALLING & BRACING OF 3x2 & 4x2 PARALLEL CHORD TRUSSES" AND ADDITIONAL BRACING DETAILS PROVIDED BY THE TRUSS MANUFACTURER. TEMPORARY BRACING FOR TRUSSES WITH CLEAR SPANS OF 60 FEET OR GREATER IN LENGTH SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE CONSTRUCTION IS TO OCCUR.
Q. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT BRACING AT ALL LOCATIONS SHOWN ON THE TRUSS DESIGN DRAWINGS. REFER TO SBCA/TPI BCSI-B3 "PERMANENT RESTRAINT/BRACING OF CHORDS & WEB MEMBERS" AND ADDITIONAL BRACING DETAILS PROVIDED BY THE TRUSS MANUFACTURER. PERMANENT BRACING FOR THE TRUSSES WITH CLEAR SPANS OF 60 FEET OR GREATER IN LENGTH SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL HIRED BY THE GENERAL CONTRACTOR AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. ALL PERMANENT BRACING SHALL BE INSTALLED AND ALL COMPONENTS PERMANENTLY FASTENED BEFORE THE APPLICATION OF ANY LOADS TO THE TRUSSES.

PES STRUCTURAL ENGINEERS

ADDRESS 1852 Century Place NE, Suite 201, Atlanta Georgia 30345
PHONE 770.457.5923 **WEB** www.pesengineers.com
PES PROJECT NUMBER: 0250683
PES GEORGIA LICENSE NUMBER: PEF000799
EXPIRATION DATE: 6/30/2028

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

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No. SE000165
STRUCTURAL
CHAD FORSTER

Chad A Forster
2026.08.18
17:23:39-04'00'

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: ARB
DRAWN: ALK
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APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

WOOD GENERAL NOTES

DRAWING NUMBER
S006

Plot Date: 8/18/2026 2:16:14 PM Path: Autodesk Docs://NCWSA Admin Bldg._V25/0250683-NCWSA Office Addition-R25-STRUCT.rvt

ALPHA BLDG SET 09-01-2026

FOUNDATION PLAN

1
S101

SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

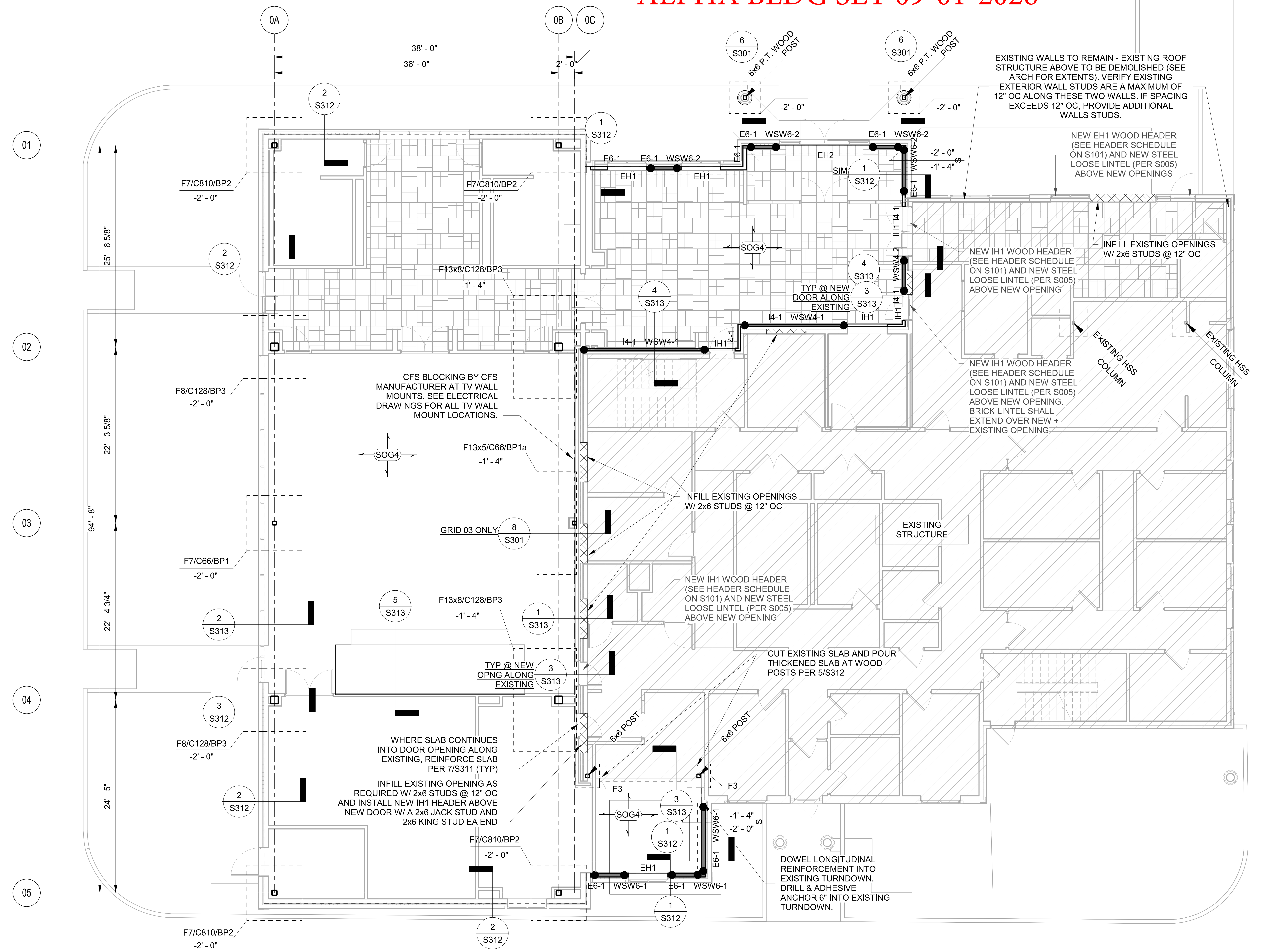
1. SOG4 — 4" CONCRETE SLAB-ON-GROUND REINFORCED W/ 3 PCY MACRO-SYNTHETIC FIBERS OVER CRUSHED STONE BASE PER GEOTECHNICAL RECOMMENDATIONS (SEE ARCH FOR VAPOR RETARDER LOCATIONS).

   T/SLAB = SEE CIVIL
   REF T/SLAB = 0'-0"

2. BASE PLATE MARK (SEE 5/S301)
   COLUMN MARK (SEE SCHEDULE ON THIS SHEET)
   FOUNDATION MARK (SEE SCHEDULE ON THIS SHEET) → F# / C# / BP#
   - #' - #"
   TOP OF FOOTING ELEVATION
3. SUBMIT PROPOSED SLAB-ON-GROUND CONSTRUCTION OR CONTRACTION JOINT LOCATIONS. FOR SCHEMATIC CJ PLAN - SEE 1/S311
4. FOR TRENCHES ADJACENT TO FOUNDATIONS - SEE 1/S301
   FOR PIPING PASSING UNDER WALL FOUNDATIONS - SEE 2/S301
   PIPING PASSING UNDER FOOTING SHALL BE PLACED AND INSPECTED BEFORE FOUNDATIONS ARE PREPARED.
5. GENERAL CONTRACTOR SHALL COORDINATE PLUMBING AND UTILITIES LOCATIONS WITH FOUNDATIONS AS NEEDED. ADDITIONALLY GC SHALL COORDINATE FOUNDATION ELEVATIONS WITH PLUMBING AND UTILITIES AS NEEDED. FORWARD ANY FOUNDATION LOCATION CHANGE REQUESTS TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
6. S DENOTES STEP IN FOUNDATION - SEE 3/S301
7. SEE ARCHITECTURAL DRAWINGS FOR:
   - ALL SLOPED SLAB AREAS. (MAINTAIN SLAB THICKNESS NOTED ON PLAN AS A MINIMUM IN ALL AREAS).
   - ALL DEPRESSED SLAB AND/OR RAISED SLAB AREAS. (MAINTAIN SLAB THICKNESS NOTED ON PLAN AS A MINIMUM IN ALL AREAS).
   - ALL DIMENSIONS NOT SHOWN. VERIFY ALL DIMENSIONS SHOWN IN STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS AND REPORT ANY DISCREPANCIES OR DIMENSIONS NOT SHOWN ON ARCHITECTURAL DRAWINGS FOR CLARIFICATION.
8. ▨ DENOTES STEP IN TOP OF SLAB - SEE 3/S311

WOOD WALL PLAN NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS AND DIMENSIONS NOT SHOWN. SOME NON-STRUCTURAL WALLS MAY NOT BE SHOWN FOR CLARITY.
2. x#-# ▭ DENOTES LOAD-BEARING WOOD STUD WALLS - SEE SCHEDULE ON THIS SHEET.
3. WSW#-# ▬ DENOTES WOOD SHEAR WALL - SEE SCHEDULE ON THIS SHEET.
4. #H# DENOTES WOOD HEADER AT DOOR OR WINDOW OPENINGS - SEE SCHEDULE ON THIS SHEET. FOR TYPICAL ELEVATION AND REQUIRED HARDWARE - SEE 3/S201
5. FOR PENETRATION THROUGH TYPICAL WALL STUDS - SEE 6/S611
6. ● DENOTES SHEAR WALL HOLD DOWN AT END OF SHEAR WALL. SEE SHEAR WALL SCHEDULE ON THIS SHEET AND DETAILS 1/S611 & 4/S312 FOR ADDITIONAL INFORMATION.
7. FOR WALL UPLIFT HARDWARE AND FASTENING REQUIREMENTS - SEE ---201
8. FOR BRACING TOP OF INTERIOR NON-LOAD BEARING WOOD PARTITION WALLS - SEE DETAIL 8/S601


N
0A
0B
0C
01
02
03
04
05
38' - 0"
36' - 0"
2' - 0"
94' - 8"
25' - 6 5/8"
22' - 3 5/8"
22' - 4 3/4"
24' - 5"
2
S312
1
S312
F7/C810/BP2
-2' - 0"
F13x8/C128/BP3
-1' - 4"
F8/C128/BP3
-2' - 0"
F7/C66/BP1
-2' - 0"
F13x5/C66/BP1a
-1' - 4"
GRID 03 ONLY
8
S301
5
S313
2
S313
1
S313
TYP @ NEW OPNG ALONG EXISTING
3
S313
3
S312
SOG4
CFS BLOCKING BY CFS MANUFACTURER AT TV WALL MOUNTS. SEE ELECTRICAL DRAWINGS FOR ALL TV WALL MOUNT LOCATIONS.
WHERE SLAB CONTINUES INTO DOOR OPENING ALONG EXISTING, REINFORCE SLAB PER 7/S311 (TYP)
INFILL EXISTING OPENING AS REQUIRED W/ 2x6 STUDS @ 12" OC AND INSTALL NEW IH1 HEADER ABOVE NEW DOOR W/ A 2x6 JACK STUD AND 2x6 KING STUD EA END
6
S301
6x6 P.T. WOOD POST
-2' - 0"
EXISTING WALLS TO REMAIN - EXISTING ROOF STRUCTURE ABOVE TO BE DEMOLISHED (SEE ARCH FOR EXTENTS). VERIFY EXISTING EXTERIOR WALL STUDS ARE A MAXIMUM OF 12" OC ALONG THESE TWO WALLS. IF SPACING EXCEEDS 12" OC, PROVIDE ADDITIONAL WALLS STUDS.
E6-1
WSW6-2
EH1
EH2
SIM
1
S312
-1' - 4"
NEW EH1 WOOD HEADER (SEE HEADER SCHEDULE ON S101) AND NEW STEEL LOOSE LINTEL (PER S005) ABOVE NEW OPENINGS
I4-1
IH1
WSW4-2
WSW4-1
4
S313
TYP @ NEW DOOR ALONG EXISTING
NEW IH1 WOOD HEADER (SEE HEADER SCHEDULE ON S101) AND NEW STEEL LOOSE LINTEL (PER S005) ABOVE NEW OPENING
INFILL EXISTING OPENINGS W/ 2x6 STUDS @ 12" OC
EXISTING HSS COLUMN
NEW IH1 WOOD HEADER (SEE HEADER SCHEDULE ON S101) AND NEW STEEL LOOSE LINTEL (PER S005) ABOVE NEW OPENING. BRICK LINTEL SHALL EXTEND OVER NEW + EXISTING OPENING
EXISTING STRUCTURE
CUT EXISTING SLAB AND POUR THICKENED SLAB AT WOOD POSTS PER 5/S312
6x6 POST
F3
WSW6-1
DOWEL LONGITUDINAL REINFORCEMENT INTO EXISTING TURNDOWN. DRILL & ADHESIVE ANCHOR 6" INTO EXISTING TURNDOWN.
S

COLUMN SCHEDULE

MARK	SIZE
C54	HSS5x5x1/4
C66	HSS6X6X3/8
C810	HSS8X8X5/8
C128	HSS12x12x1/2

FOUNDATION SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	BOTTOM REINFORCEMENT	TOP REINFORCEMENT
F3	3' - 0"	3' - 0"	1' - 0"	(4)-#4 EW, HOOKED EA END	--
F7	7' - 0"	7' - 0"	1' - 2"	(7)-#6 EW	(7)-#6 EW
F8	8' - 0"	8' - 0"	2' - 0"	(8)-#7 EW	(8)-#6 EW
F13x5	13' - 0"	5' - 0"	1' - 2"	(9)-#7 (LW); (13)-#6 (SW)	--
F13x8	13' - 0"	8' - 0"	1' - 8"	(12)-#7 (LW); (14)-#7 (SW)	(12)-#7 (LW); (14)-#7 (SW)

WOOD WALL STUD SCHEDULE

MARK	LOCATION	STUD SIZE & SPACING
		LEVEL 1 - ROOF
E6-1	EXTERIOR WALL	2x6 @ 12" OC
I4-1	INTERIOR WALL	2x4 @ 16" OC

LOAD BEARING WOOD HEADER SCHEDULE

MARK	LEVEL 1 - ROOF		
	HEADER	JACK STUDS	KING STUDS
EH1	(3) 2x8	2x6	(3) 2x6
EH2	LVL (3) 1 3/4 x 11 7/8	(2) 2x6	(4) 2x6
IH1	(2) 2x10	2x4	(2) 2x4

NOTES:

1. ALL HEADERS AND STUDS ARE TYPICAL UNLESS NOTED OTHERWISE ON PLAN.
2. USE 2x6's FOR JACK AND KING STUDS INSTEAD OF 2x4's IF WALLS ARE 2x6 WALLS.

WOOD SHEAR WALL SCHEDULE

MARK (SEE PLAN)	LEVEL	SHEATHING	FASTENING (8d COMMON NAILS)		SILL PLATE ANCHORAGE	SIMPSON HOLD-DOWN AT END OF SHEARWALL AT LEVEL 1	STUD PACK @ ENDS OF WALL		SHEAR WALL TRUSS LOAD IN PLF (SEE DETAIL 5/S611)	SHEAR WALL TRUSS FASTENING @ TOP AND BOT CHORD (SEE DETAIL 5/S611)	SHEAR WALL TRUSS SPACING
			EDGE	FIELD			2x4	2x6			
WSW6-1	1	7/16" OSB	6" OC	12" OC	5/8" x 7" EMBED ANCHOR @ 48" OC	HDUE5	-	(2)	195	(4) 8d COMMON NAILS OR @ 6" OC (TC); (2) SIMPSON A23 CLIPS OR @ 12" OC (BC)	BETWEEN EA TRUSS
WSW6-2	1	7/16" OSB	4" OC	12" OC	5/8" x 7" EMBED ANCHOR @ 36" OC	HDUE5	-	(2)	335	(6) 8d COMMON NAILS (TC); (2) SIMPSON A23 CLIPS OR @ 12" OC (BC)	BETWEEN EA TRUSS
WSW4-1	1	7/16" OSB	6" OC	12" OC	5/8" x 7" EMBED ANCHOR @ 48" OC	HDUE3	(2)	-	85	CROSS BRACING (SEE DETAIL 7/S611)	BETWEEN EA TRUSS
WSW4-2	1	7/16" OSB	4" OC	12" OC	5/8" x 7" EMBED ANCHOR @ 36" OC	HDUE7	(6)	-	335	8d COMMON NAILS @ 4" OC (TC); (2) SIMPSON A23 CLIPS OR @ 12" OC (BC)	BETWEEN EA TRUSS

GENERAL SHEAR WALL NOTES:
1. PROVIDE 2x BLOCKING AT ALL PANEL EDGES - SEE DETAIL 3/S611
2. CONFORM TO MATERIAL REQUIREMENTS IN GENERAL NOTES & PROJECT SPECIFICATIONS. WHERE GENERAL NOTES CONNECTION REQUIREMENTS VARY FROM THIS TABLE, THIS TABLE CONTROLS.
3. ATTACH PRE-FABRICATED STRAPS, ANCHORS, & HOLD-DOWNS PER MANUFACTURER'S RECOMMENDATIONS TO DEVELOP FULL LOAD CAPACITY.
4. SEE WOOD FRAMING NOTES ON S006 FOR ATTACHMENT AT OTHER LOCATIONS.
5. SEE PLANS FOR LOCATIONS OF SHEAR WALLS.
6. SEE LOAD BEARING STUD SCHEDULE FOR STUD SIZE AND SPACING. WHERE STUD PACKS ARE SHOWN ON PLANS AND IN DETAILS, SCHEDULED SPACING SHALL BE INTERRUPTED IN ORDER TO MAINTAIN CONTINUOUS LOAD PATH.
7. WHERE 8d NAILING IS 2" OC OR LESS AND WHERE 10d NAILING IS 3" OC OR LESS, 3x MEMBERS ARE REQUIRED AT PANEL EDGES. ALTERNATIVELY, PROVIDE (2) 2x MEMBERS AT PANEL EDGES.
8. SEE S202 FOR TYPICAL SHEAR WALL ELEVATION.
9. SEE 2/S611 FOR TYPICAL ROOF SHEATHING FASTENING.

HOLD-DOWN SYSTEM NOTES (SIMPSON):
1. SEE WALL TYPE PLANS FOR ALL ANCHOR LOCATIONS.
2. SEE1/S611 FOR PLAN DETAIL AT CORNER AND "T" WOOD WALL INTERSECTIONS.
3. SEE S201 FOR TYPICAL UPLIFT SYSTEM ELEVATION.

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NEWTON COUNTY WATER & SEWERAGE AUTHORITY

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616202

CLIENT PROJECT NUMBER

FOUNDATION PLAN

DRAWING NUMBER
S101

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LEVEL 2 FRAMING PLAN

1
S102

SCALE: 1/8" = 1'-0"

STEEL FLOOR FRAMING PLAN NOTES:

1. 2C20 5 1/2" DENOTES 3 1/2" NORMAL WEIGHT CONCRETE ON 2"-20 GAUGE COMPOSITE METAL DECK (TOTAL THICKNESS = 5 1/2") REINFORCED W/ 4 PCY MACRO-SYNTHETIC FIBERS.

   MINIMUM DECK PROPERTIES:

   $I_d+ = 0.417\ IN^4/FT$ $I_d- = 0.412\ IN^4/FT$
   $S_e+ = 0.342\ IN^3/FT$ $S_e- = 0.347\ IN^3/FT$
2. T/SLAB = SEE LEVEL SCHEDULE THIS SHEET.
3. T/STEEL = SEE LEVEL SCHEDULE THIS SHEET.
4. DENOTES THE AMOUNT OF CAMBER ON THE BEAM OR GIRDER

   DENOTES QUANTITY OF 3/4" DIA x 4" LG HEADED STUD ANCHORS WELDED TO TOP FLANGE OF STEEL BEAM
   (NC): DENOTES NON-COMPOSITE BEAM

   DENOTES BEAM SIZE → W#x## (#) C=#"

   TOP OF STEEL ELEVATION (UNLESS NOTED OTHERWISE) → (+) #' - #"
5. FOR TYPICAL COMPOSITE STEEL FRAMING SECTIONS AND DETAILS SEE S511 - S512
6. GENERAL CONTRACTOR SHALL VERIFY ALL OPENING DIMENSIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
7. V=#K DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) SHEAR REACTION. IF REACTION IS NOT SHOWN, DESIGN FOR 15 K.
8. ▶── DENOTES MOMENT CONNECTION. DESIGN CONNECTIONS FOR FORCES INDICATED ON PLAN AND IN ELEVATIONS. FOR CONNECTION DETAIL - SEE 5/S501.

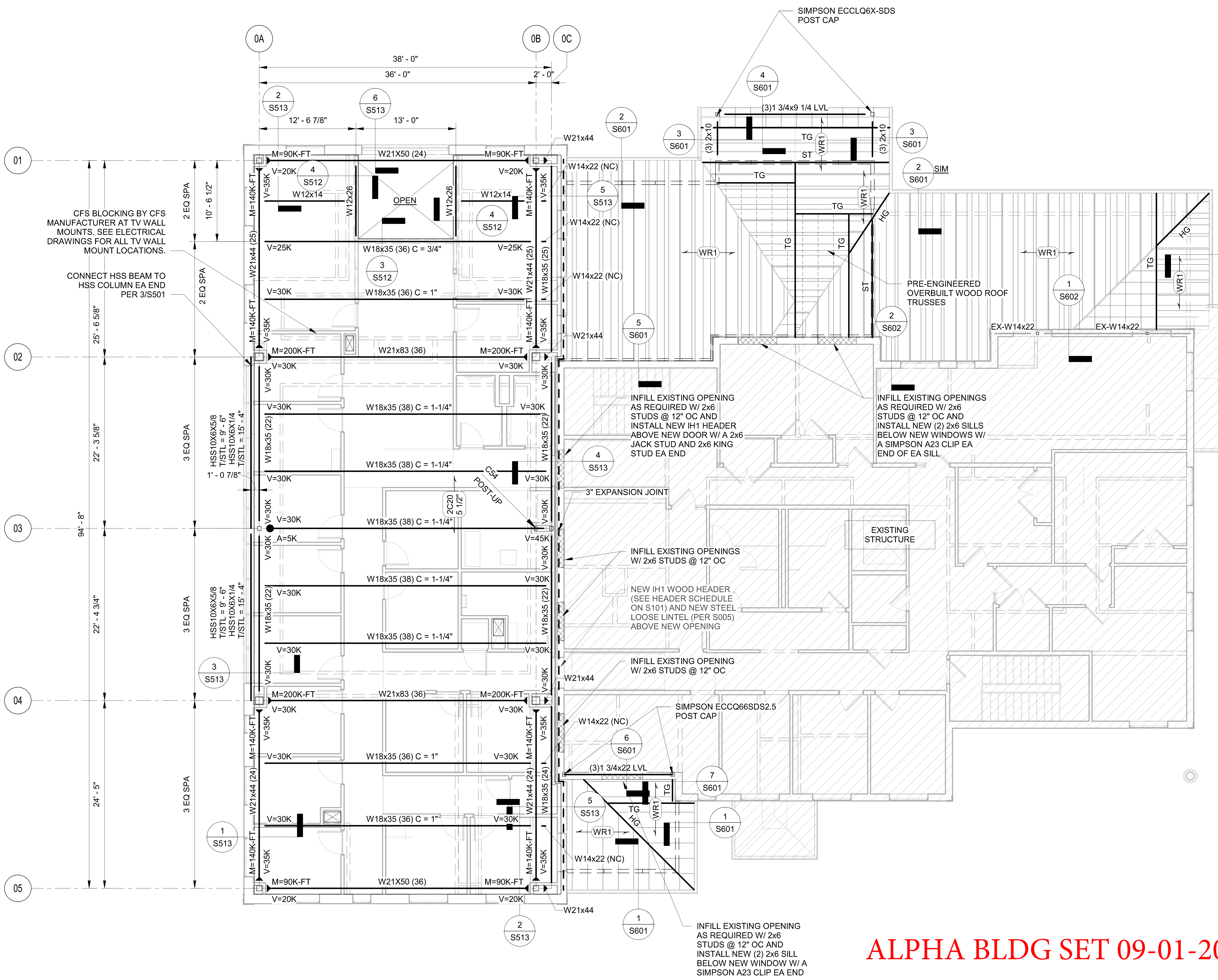
   ─◀|▶─ DENOTES BEAM-THRU-BEAM MOMENT CONNECTION. DESIGN CONNECTIONS FOR FORCES INDICATED ON PLAN AND IN ELEVATIONS. FOR CONNECTION DETAIL - SEE 4/S501.

   M=#K-FT DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) MOMENT REACTION (+ OR -). IF FORCE IS NOT SHOWN, DESIGN FOR 25 K-FT.
9. ●── DENOTES DRAG CONNECTION. DESIGN CONNECTIONS FOR AXIAL FORCES INDICATED ON PLAN AND IN ELEVATIONS. DRAG CONNECTIONS TO HSS COLUMNS SHALL BE THRU-PLATES, UNO - SEE 2/S501

   A=#K DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) AXIAL DRAG FORCE. IF FORCE IS NOT SHOWN, DESIGN FOR 5 K.
10. POST-UP DENOTES COLUMN POST UP PER DETAIL 1/S501.
11. INSTALL (3)-#4 BARS @ 6" OC AT MID-DEPTH OF SLAB CONTINUOUS AROUND ENTIRE PERIMETER OF SLAB AND AT ALL INTERIOR SLAB EDGES. LAP EDGE BARS 3' - 0" AND EXTEND 4' - 0" PAST ALL INSIDE CORNERS.

WOOD ROOF FRAMING PLAN NOTES:

1. WR1 DENOTES 5/8" WOOD ROOF SHEATHING ON GABLED PRE-ENGINEERED WOOD ROOF TRUSSES AT 24" OC, UNLESS NOTED OTHERWISE.
2. TRUSS BEARING ELEVATION = 12' - 0", UNLESS NOTED OTHERWISE.
3. TG DENOTES PRE-ENGINEERED WOOD TRUSS GIRDER. PROVIDE A STUD PACK WITH ONE MORE STUD THAN THE NUMBER OF PLIES IN TRUSS GIRDER DOWN TO FOUNDATION.
4. HG DENOTES PRE-ENGINEERED WOOD TRUSS HIP GIRDER. PROVIDE A STUD PACK WITH ONE MORE STUD THAN THE NUMBER OF PLIES IN TRUSS GIRDER DOWN TO FOUNDATION.
5. ST DENOTES PRE-ENGINEERED WOOD SHEAR TRUSS TO ALIGN WITH SHEAR WALL BELOW. DESIGN FOR IN-PLANE SHEAR LOAD PER SHEAR WALL SCHEDULE. FASTEN SHEAR TRUSS TO TOP OF SHEAR WALL BELOW PER 4/S611
6. ALL ROOF TRUSSES SHALL HAVE UPLIFT TIES AT ALL BEARING POINTS PER ROOF TRUSS TIE DOWN SCHEDULE ON THIS SHEET. REACTIONS SHALL BE PROVIDED BY THE TRUSS ENGINEER IN THE FINAL, FOR CONSTRUCTION TRUSS SHOP DRAWINGS.
7. X# - ## DENOTES WOOD BEAM - SEE SCHEDULE ON THIS SHEET.
   - NOMINAL BEAM DEPTH
   - NUMBER OF PLYS
   - D = DIMENSIONED LUMBER
     L = LVL
8. ALL WOOD ROOF BEAMS BEARING ON WALLS SHALL HAVE UPLIFT TIES AT BEARING POINTS - SEE WOOD ROOF BEAM SCHEDULE ON THIS SHEET.
9. FOR TYPICAL ROOF DIAPHRAGM FASTENING - SEE DETAIL 2/S611, UNLESS NOTED OTHERWISE ON PLAN
10. SEE FLOOR LEVEL BELOW FOR SHEAR WALL LOCATIONS. PROVIDE SHEAR TRUSS OVER THESE LOCATIONS CAPABLE OF TRANSFERRING LOAD TO WALL NOTED ON SHEAR WALL SCHEDULE.
11. ⊏⊐⊏⊐ DENOTES LOAD-BEARING WALLS BELOW.


0A
0B
0C
01
02
03
04
05
38' - 0"
36' - 0"
2' - 0"
12' - 6 7/8"
13' - 0"
10' - 6 1/2"
25' - 6 5/8"
22' - 3 5/8"
22' - 4 3/4"
24' - 5"
94' - 8"
2 EQ SPA
3 EQ SPA
1' - 0 7/8"
2 S513
6 S513
4 S512
3 S512
5 S513
4 S513
3 S513
1 S513
2 S513
2 S601
3 S601
4 S601
5 S601
6 S601
7 S601
1 S601
2 S601 SIM
1 S602
2 S602
W21x44
W14x22 (NC)
M=90K-FT
W21X50 (24)
W21X50 (36)
V=20K
V=35K
V=25K
V=30K
V=45K
A=5K
M=140K-FT
M=200K-FT
W12x14
W12x26
OPEN
W18x35 (36) C = 3/4"
W18x35 (36) C = 1"
W18x35 (38) C = 1-1/4"
W21x83 (36)
W21x44 (25)
W18x35 (25)
W21x44 (24)
W18x35 (24)
W18x35 (22)
HSS10X6X5/8
T/STL = 9' - 6"
HSS10X6X1/4
T/STL = 15' - 4"
C54
POST-UP
2C20 5 1/2"
CFS BLOCKING BY CFS MANUFACTURER AT TV WALL MOUNTS. SEE ELECTRICAL DRAWINGS FOR ALL TV WALL MOUNT LOCATIONS.
CONNECT HSS BEAM TO HSS COLUMN EA END PER 3/S501
SIMPSON ECCLQ6X-SDS POST CAP
(3)1 3/4x9 1/4 LVL
(3) 2x10
TG
ST
HG
WR1
PRE-ENGINEERED OVERBUILT WOOD ROOF TRUSSES
EX-W14x22
INFILL EXISTING OPENING AS REQUIRED W/ 2x6 STUDS @ 12" OC AND INSTALL NEW IH1 HEADER ABOVE NEW DOOR W/ A 2x6 JACK STUD AND 2x6 KING STUD EA END
INFILL EXISTING OPENINGS AS REQUIRED W/ 2x6 STUDS @ 12" OC AND INSTALL NEW (2) 2x6 SILLS BELOW NEW WINDOWS W/ A SIMPSON A23 CLIP EA END OF EA SILL
3" EXPANSION JOINT
EXISTING STRUCTURE
INFILL EXISTING OPENINGS W/ 2x6 STUDS @ 12" OC
NEW IH1 WOOD HEADER (SEE HEADER SCHEDULE ON S101) AND NEW STEEL LOOSE LINTEL (PER S005) ABOVE NEW OPENING
INFILL EXISTING OPENING W/ 2x6 STUDS @ 12" OC
SIMPSON ECCQ66SDS2.5 POST CAP
(3)1 3/4x22 LVL
INFILL EXISTING OPENING AS REQUIRED W/ 2x6 STUDS @ 12" OC AND INSTALL NEW (2) 2x6 SILL BELOW NEW WINDOW W/ A SIMPSON A23 CLIP EA END

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LEVEL SCHEDULE

NAME	ELEVATION
FFE	0"
LEVEL 2 - T/STL	12' - 6 1/2"
LEVEL 2 - T/SLAB	13' - 0"

WOOD BEAM SCHEDULE

BEAM TYPE	STUD PACKS	HANGER (WHERE REQUIRED)
	LEVEL 1	
(3) 1 3/4x9 1/4 LVL	SEE PLAN	-
(3) 1 3/4x22 LVL	SEE PLAN	-
(3) 2x10	(3) 2x6	SIMPSON (2) H2.5A

ROOF TRUSS TIE DOWN SCHEDULE

UPLIFT REACTION AT BEARING POINTS OF ROOF TRUSS (ASD)	SIMPSON TIE-ROOF @ EACH END OF BEAM	NAILS TO TRUSS	NAILS TO PL	SDS SCREWS TO TRUSS	THRU-BOLTS TO PL	REMARKS
< 540 LB	H2.5A SIMPSON TIE	0.131" x 1 1/2"	0.131" x 1 1/2"	-	-	-
540 LB ≤ REACTION < 1080 LB	(2) H2.5A SIMPSON TIES	0.131" x 1 1/2"	0.131" x 1 1/2"	-	-	-
1080 LB ≤ REACTION < 1420 LB	(2) H8 SIMPSON TIES	0.148" x 1 1/2"	0.148" x 1 1/2"	-	-	-
1420 LB ≤ REACTION < 3990 LB	(2) VGTL/R SIMPSON TIEDOWNS	-	-	1/4" x 3"	(2) 5/8" DIA	2 PLY MIN W/ HDU4 EA FACE BELOW TOP PL; 1/4" x 3" SQ WASHER
3990 LB ≤ REACTION < 6485 LB	HGT-2 SIMPSON TIEDOWN	0.148" x 3"	-	-	(2) 5/8" DIA	2 PLY W/ FULL-HEIGHT THREA ROD; 1/4" x 3" SQ WASHER
6485 LB ≤ REACTION < 9035 LB	HGT-3 SIMPSON TIEDOWN	0.148" x 3"	-	-	(2) 5/8" DIA	3 PLY W/ FULL-HEIGHT THREA ROD; 1/4" x 4" SQ WASHER PL

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FILENAME

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616202

CLIENT PROJECT NUMBER

LEVEL 2 FRAMING PLAN

DRAWING NUMBER
S102

ALPHA BLDG SET 09-01-2026

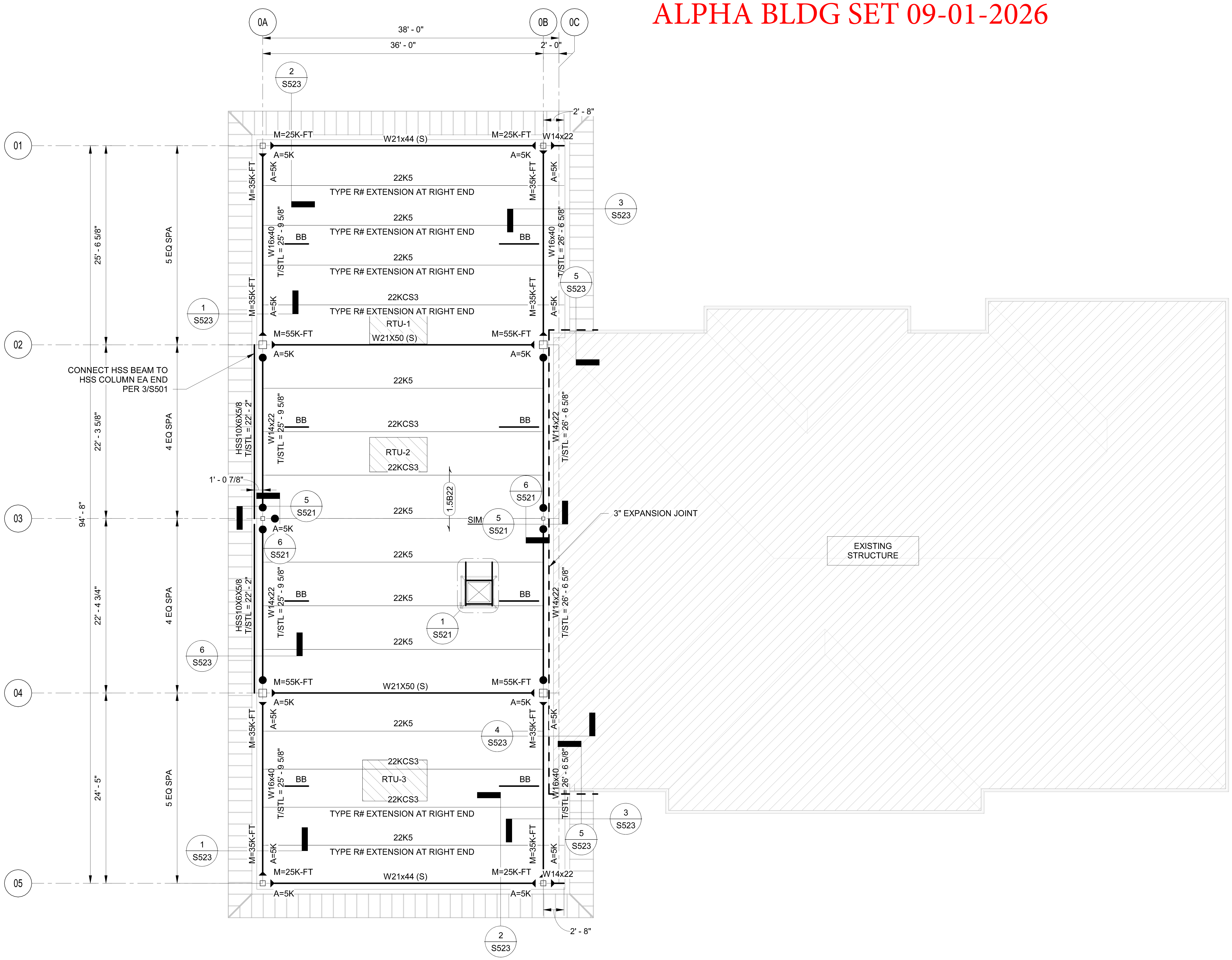
ROOF FRAMING PLAN

1
S103

SCALE: 1/8" = 1'-0"

STEEL ROOF FRAMING PLAN NOTES:

1. 1.5B22 DENOTES 22 GAUGE 1 1/2" TYPE B WIDE RIB STEEL ROOF DECK.
   MINIMUM DECK PROPERTIES:
   $I_d+ = 0.162$ IN^4/FT $I_d- = 0.175$ IN^4/FT
   $S_e+ = 0.183$ IN^3/FT $S_e- = 0.189$ IN^3/FT
2. SEE PLAN FOR TOP OF STEEL ELEVATIONS.
3. NOTIFY STRUCTURAL ENGINEER OF RECORD IF PIPING WEIGHT IS IN EXCESS OF THOSE NOTED IN SCHEDULE. FOR ALL PIPING SUPPORTED FROM ROOF STRUCTURE SEE S005
4. DO NOT SUPPORT MULTIPLE SPRINKLER MAINS FROM THE SAME JOIST. GENERAL CONTRACTOR TO PROVIDE SPRINKLER DRAWINGS TO STRUCTURAL ENGINEER OF RECORD AND JOIST MANUFACTURER FOR REVIEW AND COORDINATION PRIOR TO JOIST FABRICATION WHERE LOAD PER JOIST EXCEEDS 200#.
5. JOISTS SHALL BE REINFORCED AT CONCENTRATED LOADS - SEE 2/S521
6. PROVIDE SUPPORT FRAME AT ROOF DRAINS, VENTS, EXHAUST FANS, HATCHES, AND OTHER OPENINGS LARGER THAN 12" PER 1/S521
   COORDINATE SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
7. ROOF EDGE ANGLES SHALL BE CONTINUOUS. FOR SPLICE CONNECTION - SEE 4/S521
8. MAXIMUM SPACING OF STEEL ROOF JOISTS SHALL BE 6' - 0" OC, UNLESS NOTED OTHERWISE.
9. JOIST SEATS SHALL BE DESIGNED FOR ROLL-OVER FORCES ALONG GRID LINES 0A & 0B, UNLESS NOTED OTHERWISE ON PLAN - SEE 3/S521.
10. V=#K DENOTES: DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) SHEAR REACTION. IF REACTION IS NOT SHOWN, DESIGN FOR 15 K.
11. ▸—— DENOTES MOMENT CONNECTION. DESIGN CONNECTIONS FOR FORCES INDICATED ON PLAN AND IN ELEVATIONS. FOR CONNECTION DETAIL - SEE 5/S501.
    M=#K-FT DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) MOMENT REACTION (+ OR -). IF FORCE IS NOT SHOWN, DESIGN FOR 25 K-FT.
12. ●—— DENOTES DRAG CONNECTION. DESIGN CONNECTIONS FOR AXIAL FORCES INDICATED ON PLAN AND IN ELEVATIONS. DRAG CONNECTIONS TO HSS COLUMNS SHALL BE THRU-PLATES, UNO - SEE 2/S501
    A=#K DENOTES DESIGN SERVICE LEVEL (ALLOWABLE STRESS DESIGN) AXIAL DRAG FORCE. IF FORCE IS NOT SHOWN, DESIGN FOR 5 K.
13. BB DENOTES BEAM BOTTOM FLANGE BRACE PER DETAIL 7/S521.



RTU SCHEDULE

MARK	WEIGHT
RTU-1	1350 LB
RTU-2	1350 LB
RTU-3	1650 LB

NOTES:

1. NOTIFY ARCHITECT/ENGINEER IF UNIT SUPPLIED EXCEEDS SCHEDULED WEIGHT.
2. REFERENCE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION AND EXACT UNIT SIZES AND LOCATIONS.
3. EQUIPMENT CURB AND ANCHORAGE IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR - SEE 2/S522. ANCHOR CURBS TO RESIST UPLIFT AND OVERTURNING FORCES FROM WIND LOADS.

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DRAWING NUMBER
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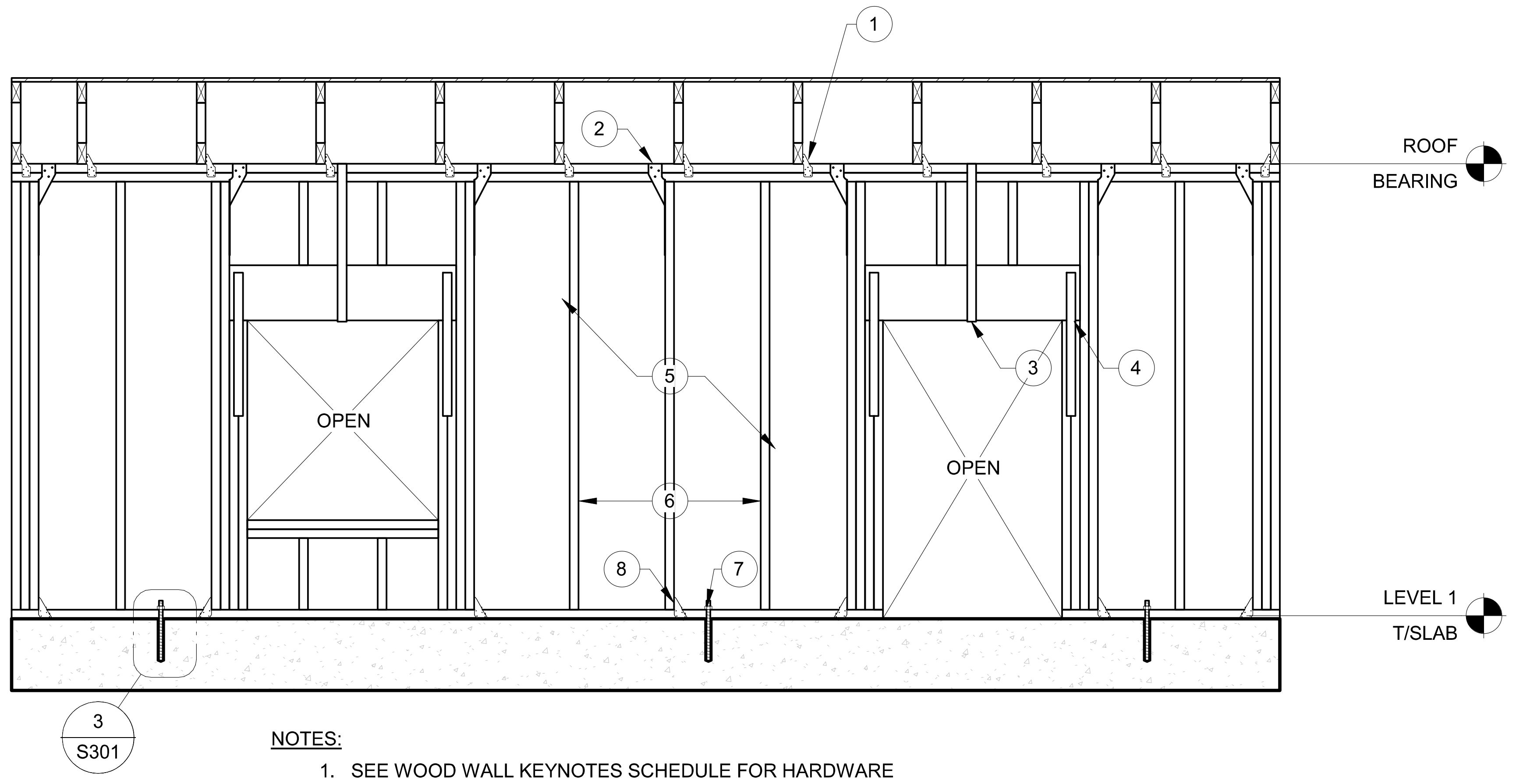


NOTES:

1. SEE WOOD WALL KEYNOTES SCHEDULE FOR HARDWARE REQUIREMENTS APPLICABLE TO THE ELEVATION.
2. SEE SHEAR WALL ELEVATIONS AND WOOD SHEAR WALL KEYNOTES SCHEDULE FOR ADDITIONAL HARDWARE REQUIRED AT WALLS INDICATED AS SHEAR WALLS IN THE CONSTRUCTION DOCUMENTS.
3. TRUSS ANCHORAGE HARDWARE REQUIREMENTS ARE SUBJECT TO CHANGE FOLLOWING THE SEOR REVIEW OF THE PRE-ENGINEERED WOOD ROOF TRUSS CALCULATIONS AND SHOP DRAWINGS.

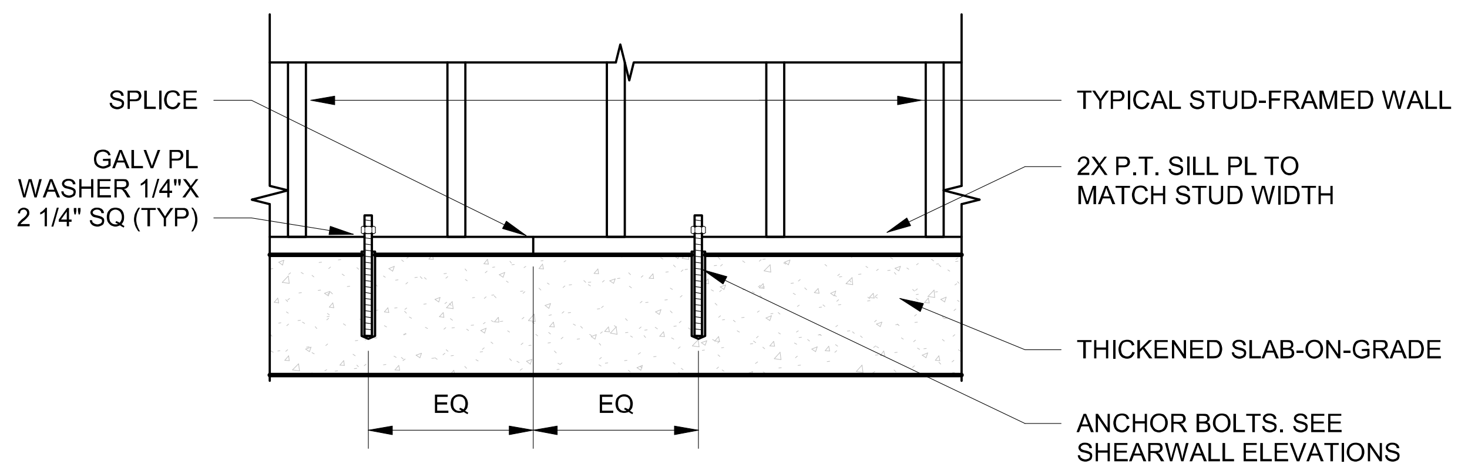
UPLIFT CONNECTORS AT WOOD WALLS - ELEVATION

1
S201

SCALE: 1/2" = 1'-0"

WOOD WALL KEYNOTES

UPLIFT NOTE NUMBER	UPLIFT NOTE CONTENT
1	CONNECT EACH TRUSS TO WALL/BEAM PER ROOF TRUSS TIE DOWN SCHEDULE. CONNECT BEAM TO WALL PER PLAN AND PER KEY DETAILS. CONNECT BEAM TO POST PER KEY DETAILS.
2	THE DOUBLE 2x PLATE SHALL BE ANCHORED TO THE STUDS WITH (1)-SIMPSON 'H6' TIE AT FULL HEIGHT STUDS AT THE JAMBS EACH SIDE OF OPENINGS, AT WALL CORNERS AND @ 24" OC BETWEEN.
3	PROVIDE SIMPSON 'CS20' STRAP WRAPPING OVER DOUBLE 2x TOP PLATE AND EXTENDING TO BOTTOM OF HEADER ON EACH SIDE. SPACE 3'-0" OC (MAX). (TYPICAL AT ALL HEADERS AT LOAD BEARING WALLS)
4	FOR OPENING WIDTHS LESS THAN 6'-0", PROVIDE SIMPSON 'CS20' STRAP FROM TOP OF HEADER 9" DOWN JACK STUDS ON INTERIOR SIDE OF WALL. FOR OPENING WIDTHS BETWEEN 6'-0" AND 11'-4", PROVIDE SIMPSON 'CS16' STRAP FROM TOP OF HEADER 15" DOWN JACK STUDS ON INTERIOR SIDE OF WALL. (TYPICAL AT ALL HEADERS AT LOAD BEARING WALLS).
5	UNSHEATHED INTERIOR AND EXTERIOR LOAD BEARING STUD WALLS SHALL HAVE CONTINUOUS HORIZONTAL BLOCKING @ 4'-0" OC MAXIMUM VERTICALLY PRIOR TO APPLYING LOADS TO THESE WALLS (NOT REQUIRED IF SHEATHING IS IN PLACE)
6	LOAD BEARING WOOD STUD (SEE WALL STUD SCHEDULE FOR STUD SIZE AND SPACING)
7	USE 5/8" DIAMETER ADHESIVE ANCHORS (7" EMBEDMENT) THRU THE MUD SILLS AT THE JAMBS EACH SIDE OF OPENINGS, AT WALL CORNERS AND @ 48" OC BETWEEN (UNLESS NOTED OTHERWISE FOR SHEAR WALLS)
8	PROVIDE (2) SIMPSON 'H8' AT FULL HEIGHT STUDS TO MUD SILLS AT THE JAMBS EACH SIDE OF OPENINGS, AT WALL CORNERS AND @ 24" OC BETWEEN.


SPLICE
GALV PL WASHER 1/4"X 2 1/4" SQ (TYP)
TYPICAL STUD-FRAMED WALL
2X P.T. SILL PL TO MATCH STUD WIDTH
THICKENED SLAB-ON-GRADE
EQ
EQ
ANCHOR BOLTS. SEE SHEARWALL ELEVATIONS AND SCHEDULE AND WOOD WALL ELEVATIONS

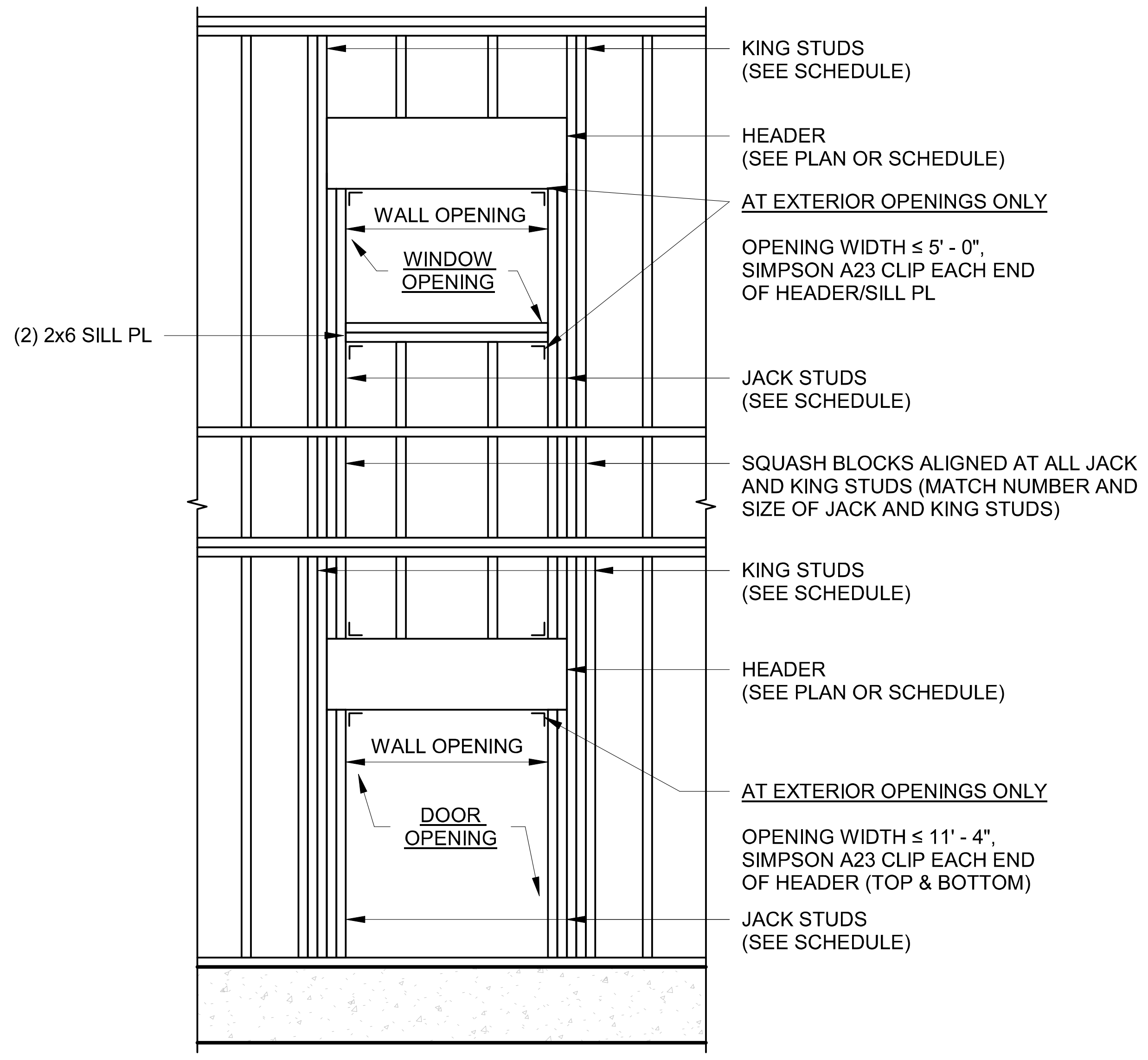
NOTES:

1. FINISH SLAB FOR EVEN BEARING OF SILL PLATE. PLACE NON-SHRINK GROUT UNDER PLATE WHEN GAP EXCEEEDS 1/8"
2. USE ONLY GALVANIZED ANCHORS IN PRESSURE TREATED WOOD. GALVANIZED FASTENERS ARE NOT REQUIRED IN BORATE TREATED WOOD.
3. THIS DETAIL DOES NOT APPLY TO SHEARWALL HOLDDOWN ANCHORS.
4. OFFSET BOLTS IN SILL PLATE AS REQUIRED TO MAINTAIN 3 1/4" MIN EDGE DISTANCE IN CONCRETE (MEASURED FROM CENTER OF BOLT).

TYPICAL SILL PLATE ANCHORAGE - ELEVATION

2
S201

SCALE: 3/4" = 1'-0"


KING STUDS (SEE SCHEDULE)
HEADER (SEE PLAN OR SCHEDULE)
AT EXTERIOR OPENINGS ONLY
OPENING WIDTH ≤ 5' - 0", SIMPSON A23 CLIP EACH END OF HEADER/SILL PL
WALL OPENING
WINDOW OPENING
(2) 2x6 SILL PL
JACK STUDS (SEE SCHEDULE)
SQUASH BLOCKS ALIGNED AT ALL JACK AND KING STUDS (MATCH NUMBER AND SIZE OF JACK AND KING STUDS)
KING STUDS (SEE SCHEDULE)
HEADER (SEE PLAN OR SCHEDULE)
WALL OPENING
DOOR OPENING
AT EXTERIOR OPENINGS ONLY
OPENING WIDTH ≤ 11' - 4", SIMPSON A23 CLIP EACH END OF HEADER (TOP & BOTTOM)
JACK STUDS (SEE SCHEDULE)

TYPICAL HEADER LAYOUT - ELEVATION

3
S201

SCALE: 1/2" = 1'-0"

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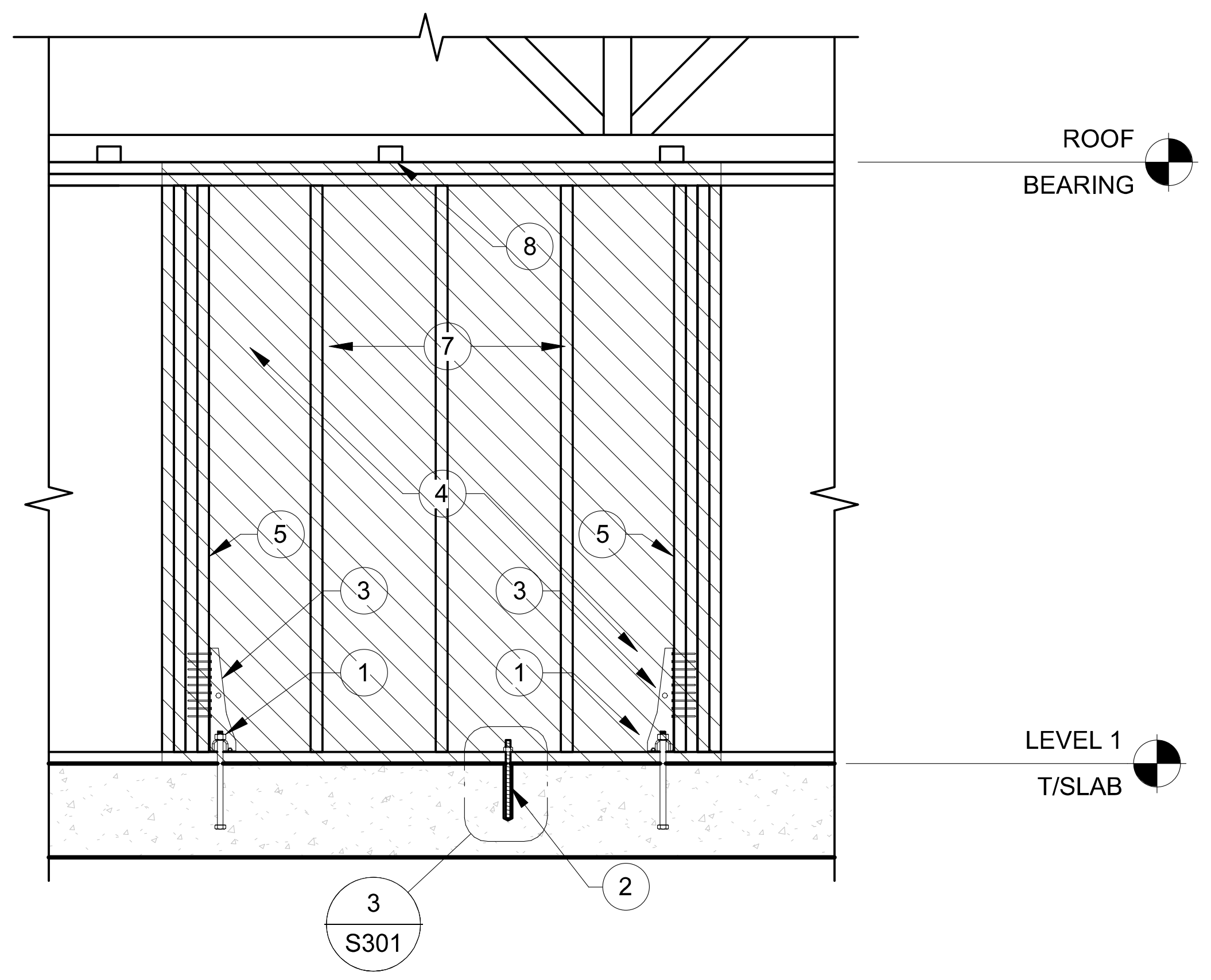
CLIENT PROJECT NUMBER

WOOD WALL ELEVATIONS

DRAWING NUMBER
S201



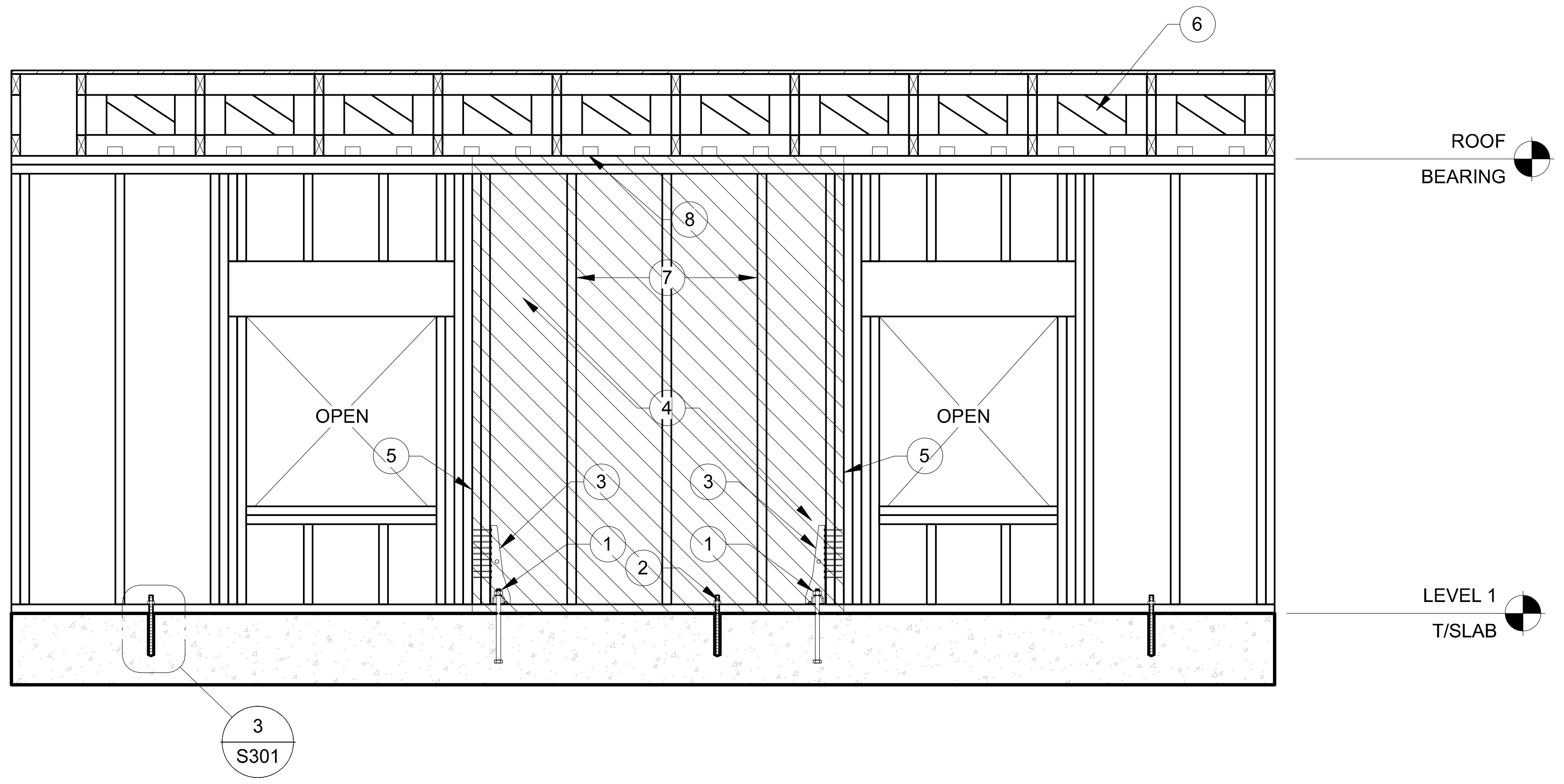
NOTES:

1. SEE SHEAR WALL SCHEDULE AND WOOD SHEAR WALL KEYNOTE SCHEDULE FOR HARDWARE REQUIREMENTS APPLICABLE TO THE ELEVATION.
2. SEE UPLIFT CONNECTORS WALL ELEVATIONS AND WOOD WALL KEYNOTES SCHEDULE FOR HARDWARE REQUIRED IN ADDITION TO HARDWARE SHOWN IN THIS ELEVATION.

SHEAR WALL AT SHEAR TRUSS PARALLEL TO WALL - ELEVATION

1
S202

SCALE: 1/2" = 1'-0"



NOTES:

1. SEE SHEAR WALL SCHEDULE AND WOOD SHEAR WALL KEYNOTE SCHEDULE FOR HARDWARE REQUIREMENTS APPLICABLE TO THE ELEVATION.
2. SEE UPLIFT CONNECTORS WALL ELEVATIONS AND WOOD WALL KEYNOTES SCHEDULE FOR HARDWARE REQUIRED IN ADDITION TO HARDWARE SHOWN IN THIS ELEVATION.

SHEAR WALL ADJACENT TO OPENING WITH ROOF TRUSSES PERPENDICULAR TO WALL - ELEVATION

2
S202

SCALE: 1/2" = 1'-0"

WOOD SHEAR WALL KEYNOTES

NOTE NUMBER	NOTE CONTENT
1	HOLDOWN ANCHOR (SEE SHEAR WALL SCHEDULE FOR SIZE AND EMBEDMENT LENGTH)
2	USE 5/8" DIAMETER ADHESIVE ANCHORS (7" EMBEDMENT) THRU MUD SILL WITHIN 12" OF HOLDOWN AND AT SPACING INDICATED IN SHEAR WALL SCHEDULE WITH PLATE WASHER 0.229"X3"X3" AT 2x4 WALLS AND 0.229"X5"X5" AT 2x6 WALLS
3	HOLDOWN (SEE SHEAR WALL SCHEDULE)
4	WALL SHEATHING (SEE SHEAR WALL SCHEDULE). INSTALL 2x BLOCKING AT ALL UNSUPPORTED EDGES. FASTEN SHEATHING AT PANEL EDGES PER SHEAR WALL SCHEDULE AND AT INTERMEDIATE SUPPORTS PER GENERAL NOTES.
5	STUD PACK AT END OF SHEAR WALL (SEE SHEAR WALL SCHEDULE FOR QUANTITY)
6	SHEAR TRUSS BETWEEN TRUSSES PERPENDICULAR TO SHEAR WALL (SEE SHEAR WALL SCHEDULE FOR REQUIRED LOCATIONS, FASTENING, AND LOADING.
7	LOAD BEARING WOOD STUD (SEE WALL STUD SCHEDULE FOR STUD SIZE AND SPACING)
8	CONNECTION BETWEEN SHEAR TRUSS AND SHEAR WALL (SEE SHEAR WALL SCHEDULE)

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CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA
NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

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CHECKED: CAF
CHECKED:
APPROVED: Approver

FILENAME

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WOOD SHEAR WALL ELEVATIONS

DRAWING NUMBER
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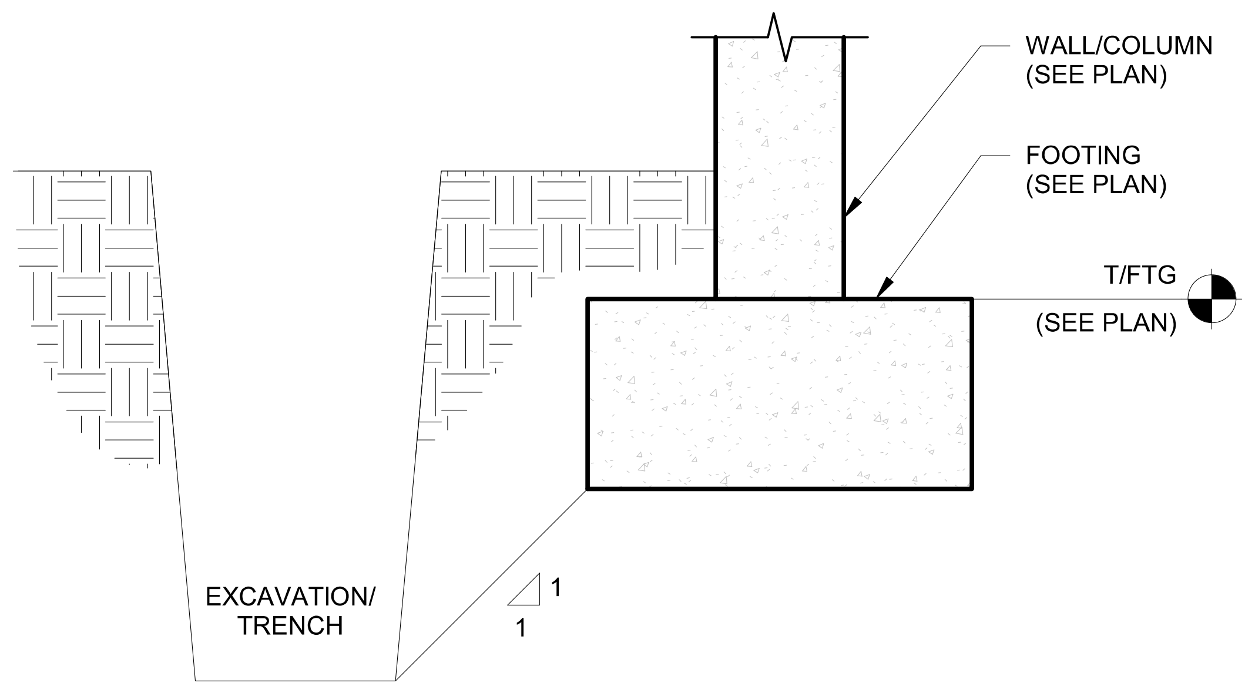
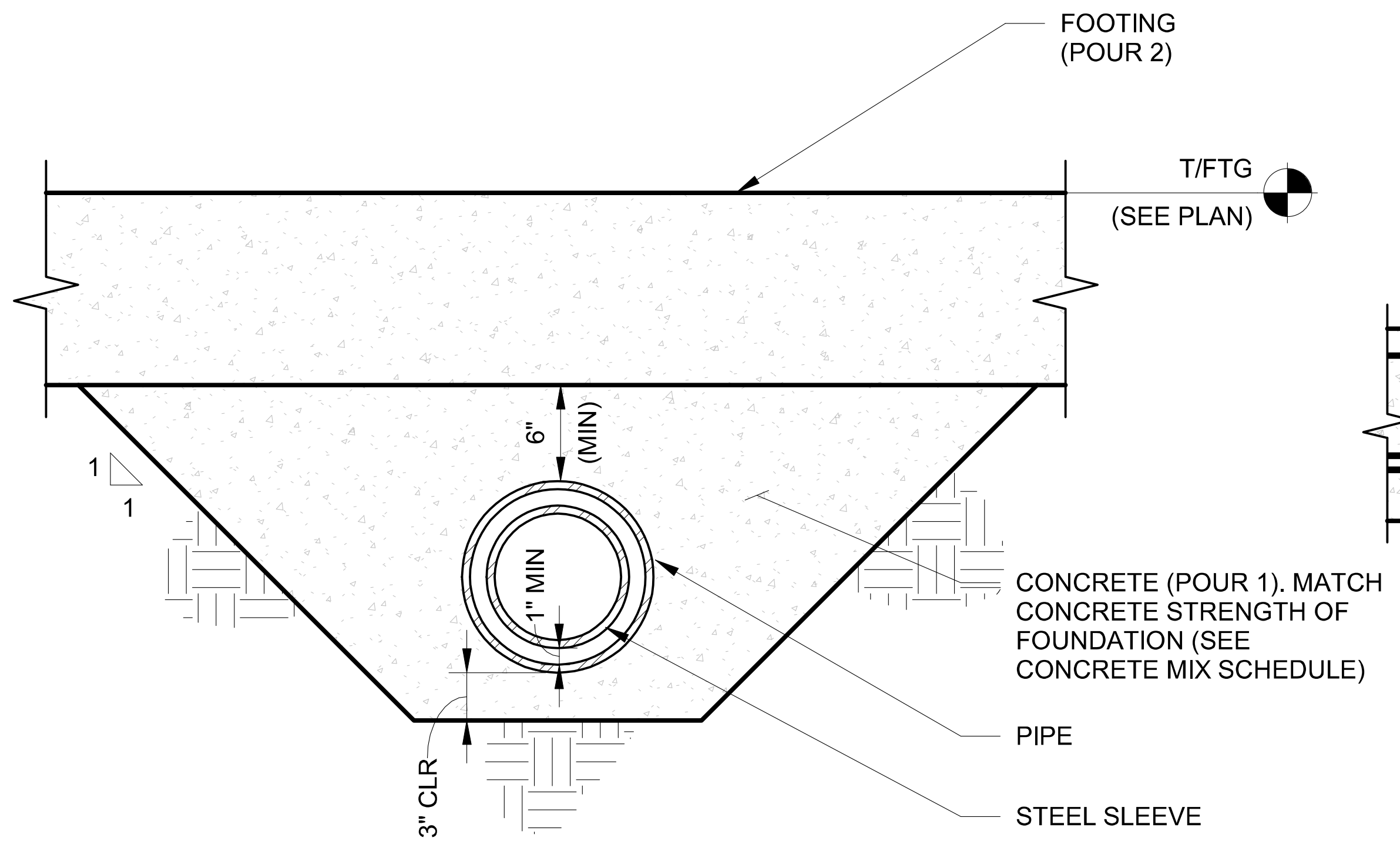


NOTES:
1. DETAIL IS INTENDED TO INDICATE THE MINIMUM CLEARANCE BETWEEN TRENCHES AND INSTALLED FOUNDATIONS TO MAINTAIN STABILITY OF THE FOUNDATION. THIS DETAIL IS NOT INTENDED TO ADDRESS OSHA TRENCHING AND EXCAVATION SAFETY REQUIREMENTS.

TYPICAL TRENCH ADJACENT TO FOOTING - SECTION

1 / S301

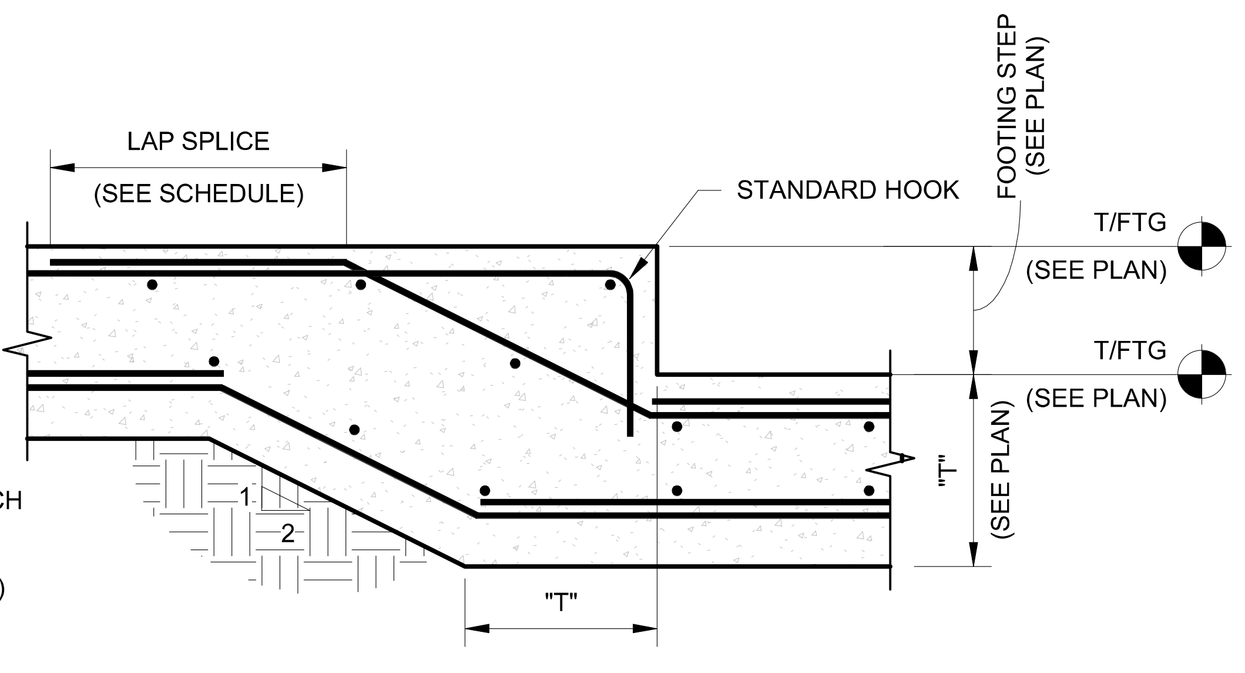
SCALE: 1" = 1'-0"


FOOTING
(POUR 2)
T/FTG
(SEE PLAN)
1
1
6"
(MIN)
1" MIN
3" CLR
CONCRETE (POUR 1), MATCH CONCRETE STRENGTH OF FOUNDATION (SEE CONCRETE MIX SCHEDULE)
PIPE
STEEL SLEEVE

TYPICAL PIPE UNDER WALL FOOTING - SECTION

2 / S301

SCALE: 1" = 1'-0"

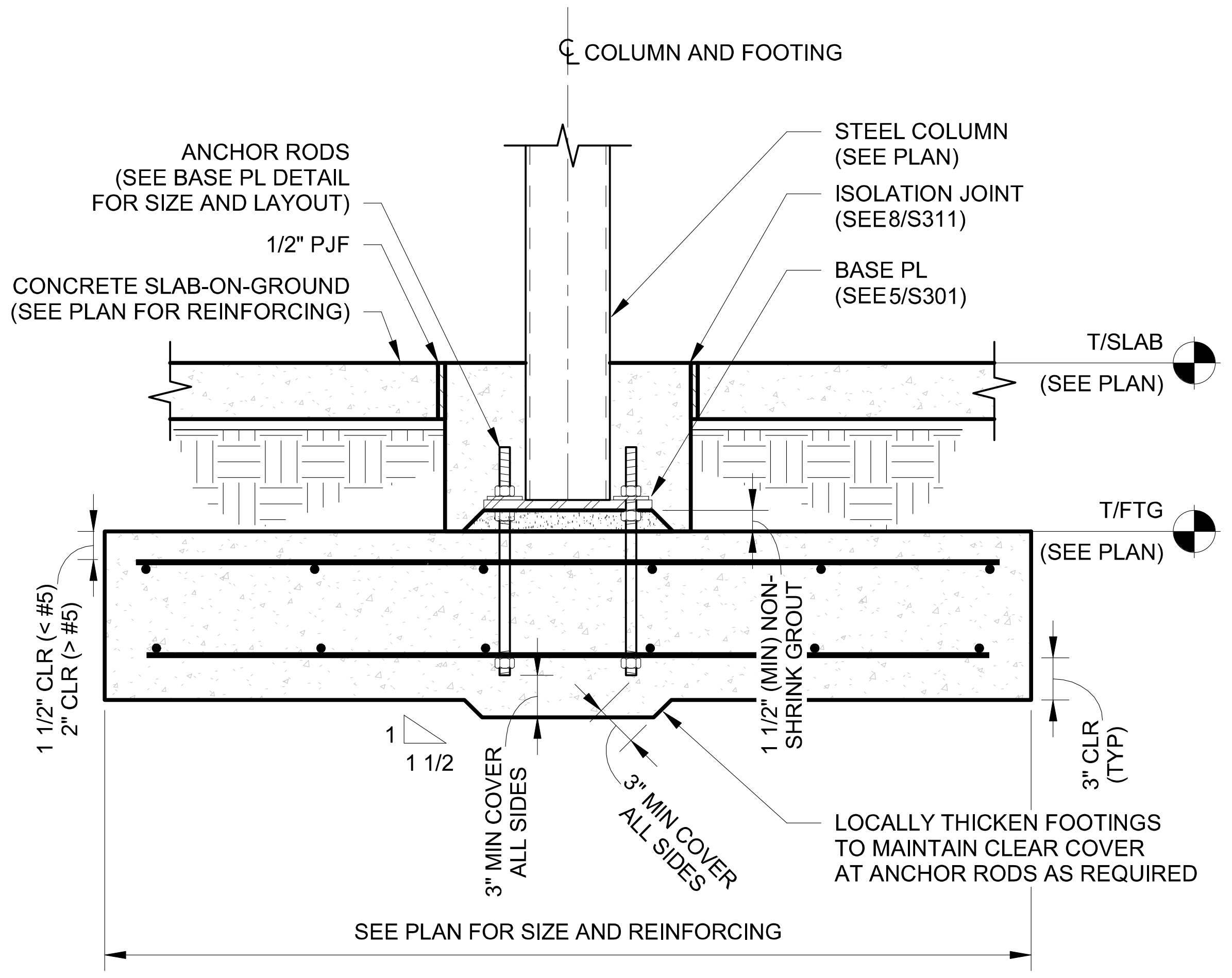


NOTES:
1. "T" DENOTES FOOTING THICKNESS (SEE PLANS, KEYED SECTIONS AND DETAILS FOR FOOTING THICKNESS AND REINFORCING).

TYPICAL FOOTING STEP - SECTION

3 / S301

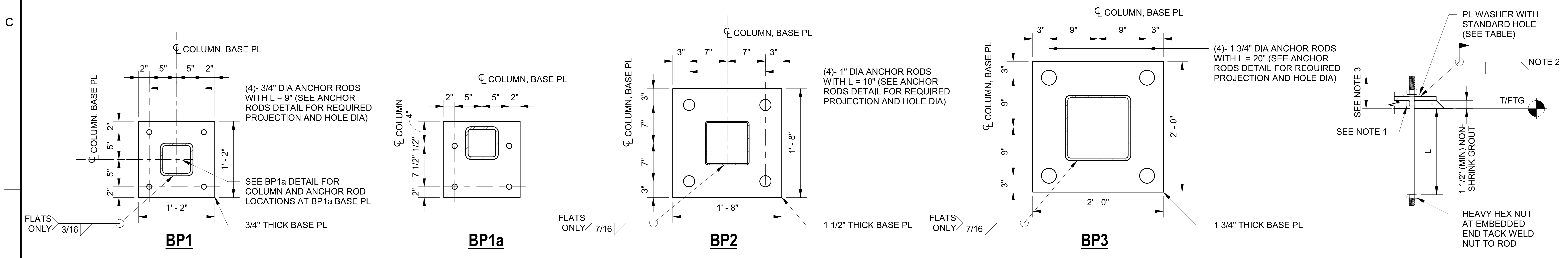
SCALE: 1" = 1'-0"



TYPICAL INTERIOR COLUMN FOOTING - SECTION

4 / S301

SCALE: 1" = 1'-0"


℄ COLUMN, BASE PL
2"
5"
5"
2"
(4)- 3/4" DIA ANCHOR RODS WITH L = 9" (SEE ANCHOR RODS DETAIL FOR REQUIRED PROJECTION AND HOLE DIA)
℄ COLUMN, BASE PL
1' - 2"
1' - 2"
SEE BP1a DETAIL FOR COLUMN AND ANCHOR ROD LOCATIONS AT BP1a BASE PL
FLATS ONLY
3/16
3/4" THICK BASE PL
BP1
℄ COLUMN, BASE PL
℄ COLUMN
4"
7 1/2"
2"
BP1a
℄ COLUMN, BASE PL
3"
7"
7"
3"
(4)- 1" DIA ANCHOR RODS WITH L = 10" (SEE ANCHOR RODS DETAIL FOR REQUIRED PROJECTION AND HOLE DIA)
1' - 8"
1' - 8"
FLATS ONLY
7/16
1 1/2" THICK BASE PL
BP2
℄ COLUMN, BASE PL
3"
9"
9"
3"
(4)- 1 3/4" DIA ANCHOR RODS WITH L = 20" (SEE ANCHOR RODS DETAIL FOR REQUIRED PROJECTION AND HOLE DIA)
2' - 0"
2' - 0"
FLATS ONLY
7/16
1 3/4" THICK BASE PL
BP3
PL WASHER WITH STANDARD HOLE
(SEE TABLE)
NOTE 2
SEE NOTE 3
T/FTG
SEE NOTE 1
L
1 1/2" (MIN) NON-SHRINK GROUT
HEAVY HEX NUT AT EMBEDDED END TACK WELD NUT TO ROD

BASE PLATE HOLE DIAMETER AND PLATE WASHER SIZE

ANCHOR RODS DIA	BASE PL HOLE DIA	MIN WASHER DIMENSION	MIN WASHER THICKNESS
3/4"	1 5/16"	2"	1/4"
1"	1 13/16"	3"	3/8"
1 3/4"	2 3/4"	4"	5/8"

NOTES:
1. PROVIDE LEVELING NUTS AND WASHERS, SHIM STACKS, OR LEVELING PLATE TO TEMPORARILY SUPPORT COLUMN DURING LEVELING AND GROUTING.
2. WELD REQUIRED ONLY AT MOMENT FRAME COLUMNS AT BASE PLATE TYPES BP-1 & BP-2. AS AN ALTERNATIVE TO WELDING, FILL ALL VOIDS BETWEEN ANCHOR ROD AND BASE PLATE HOLES WITH GROUT OR EPOXY PRIOR TO INSTALLING WASHER AND NUT.
3. PROVIDE ADEQUATE PROJECTION FOR INSTALLATION OF NUT ABOVE BASE PLATE:
   A. AT BASE PLATE TYPE BP1: 7" MINIMUM
   B. AT BASE PLATE TYPE BP2: 7 1/2" MINIMUM
   C. AT BASE PLATE TYPE BP3: 8 1/2" MINIMUM

BASE PLATE DETAILS

5 / S301

SCALE: 1" = 1'-0"

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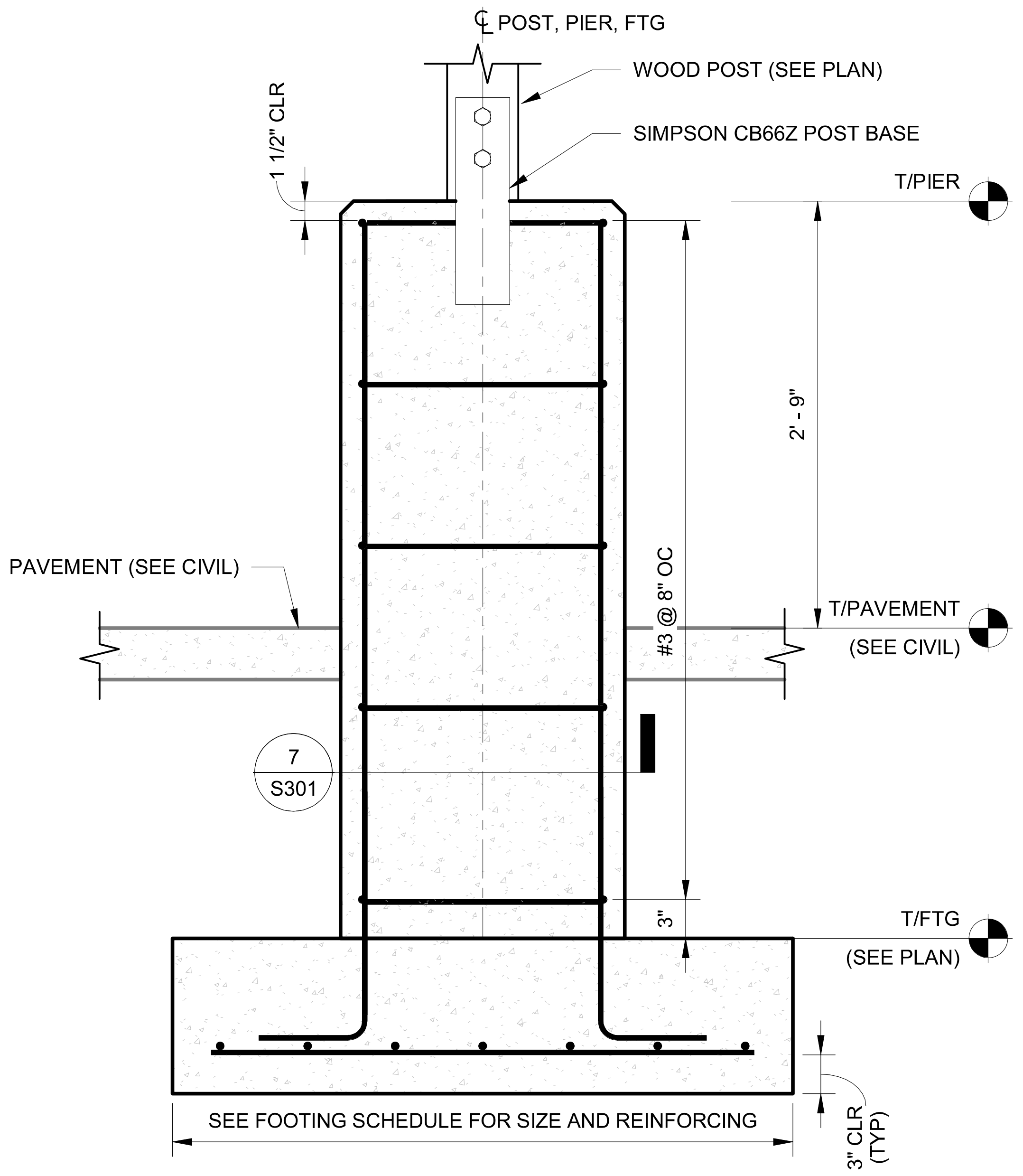
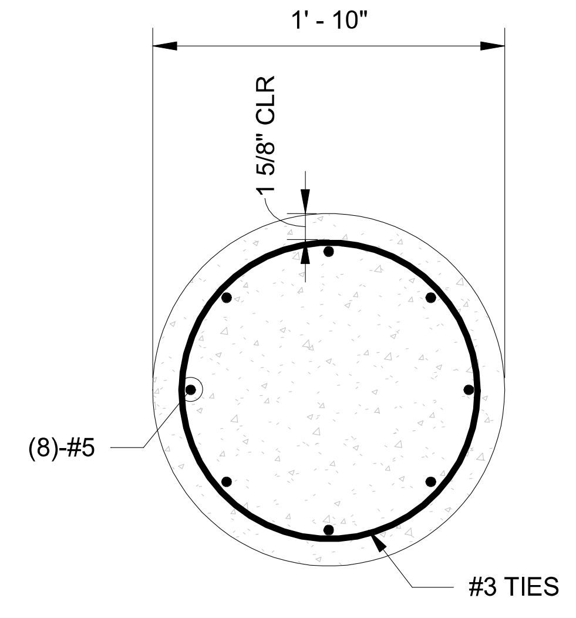


CONCRETE PIER AT WOOD POST - SECTION

6 / S301

SCALE: 1" = 1'-0"

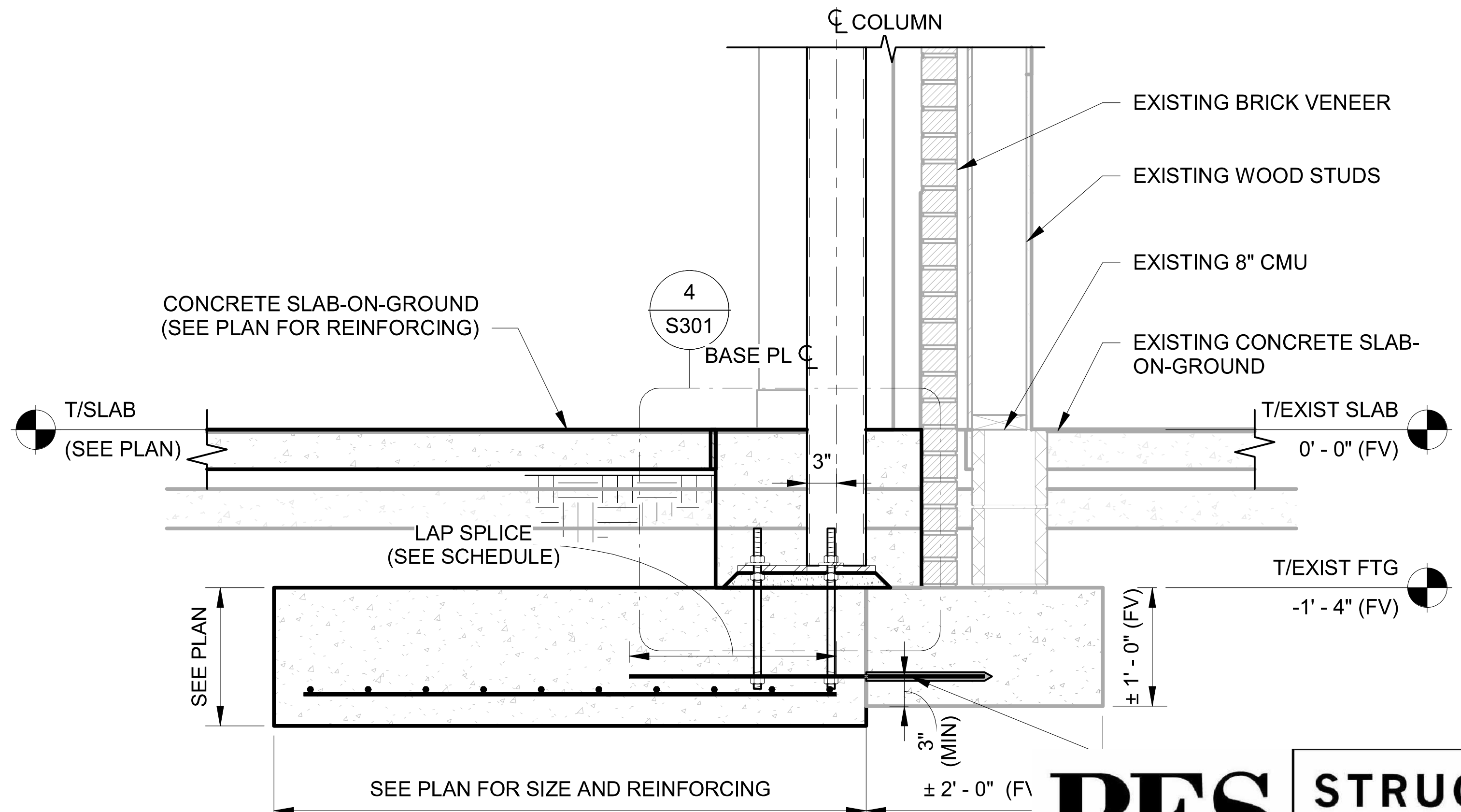


'P1'

CONCRETE PIER REINFORCING - DETAIL

7 / S301

SCALE: 1" = 1'-0"



STEEL COLUMN FOOTING AT EXISTING WALL FOOTING - SECTION

8 / S301

SCALE: 3/4" = 1'-0"

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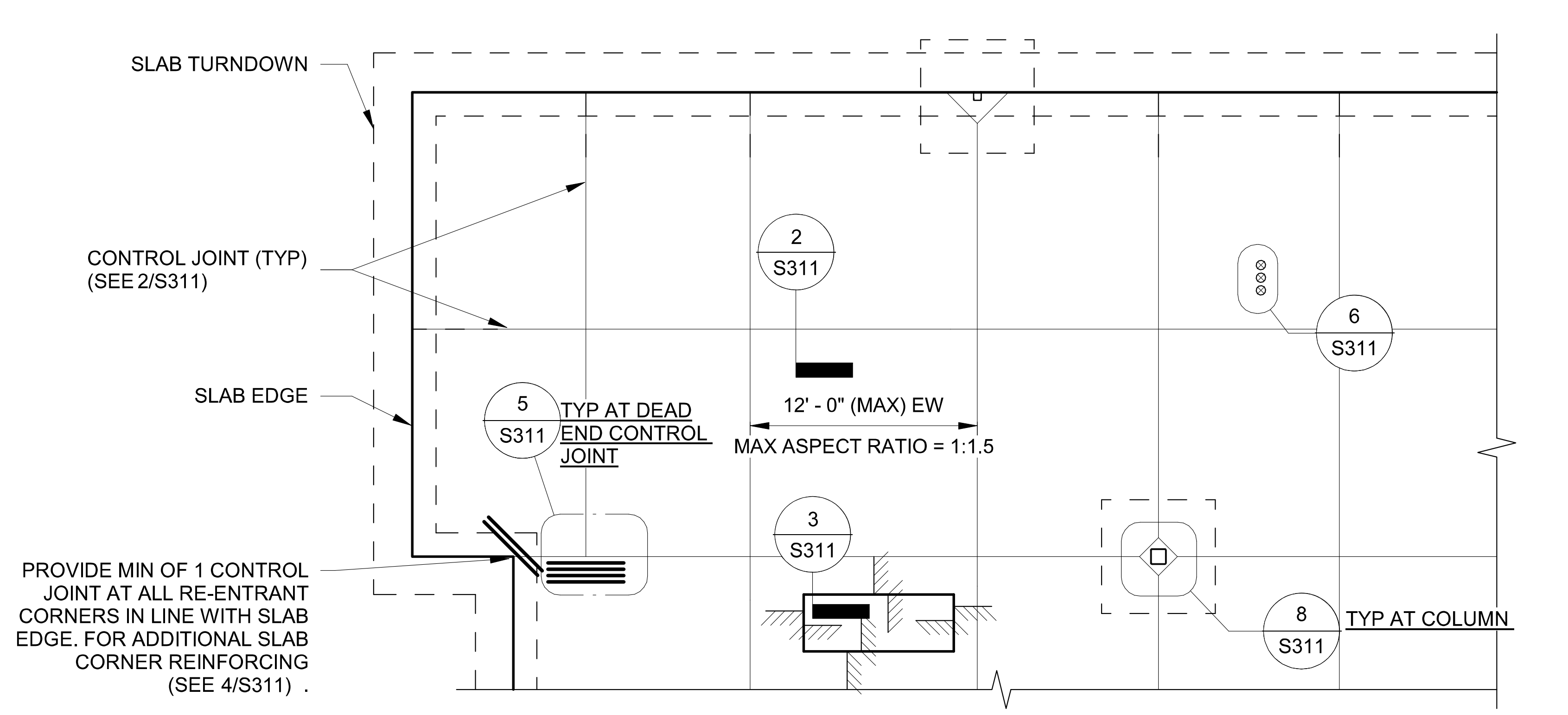

SLAB TURNDOWN
CONTROL JOINT (TYP)
(SEE 2/S311)
SLAB EDGE
PROVIDE MIN OF 1 CONTROL JOINT AT ALL RE-ENTRANT CORNERS IN LINE WITH SLAB EDGE. FOR ADDITIONAL SLAB CORNER REINFORCING (SEE 4/S311)
2 S311
5 S311
TYP AT DEAD END CONTROL JOINT
12' - 0" (MAX) EW
MAX ASPECT RATIO = 1:1.5
3 S311
6 S311
8 S311
TYP AT COLUMN

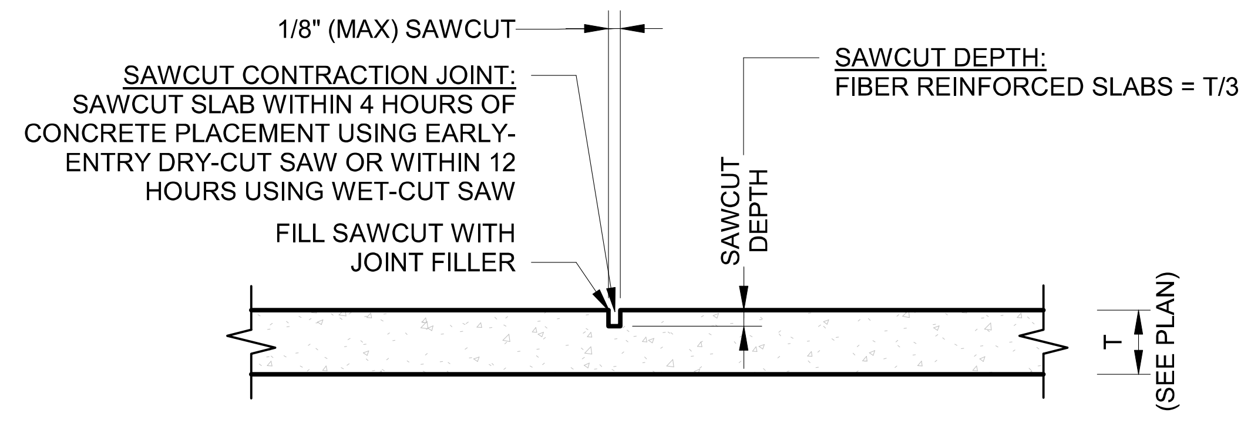
NOTES:

1. KEY PLAN ILLUSTRATES CONSTRUCTION CONCEPTS ONLY. SEE PLAN FOR ACTUAL DIMENSIONS AND ARRANGEMENT OF STRUCTURAL ELEMENTS (COLUMNS, WALLS, FOUNDATIONS) AND REFER TO TYPICAL DETAIL FOR ADDITIONAL SLAB REINFORCEMENT REQUIRED.
2. PROVIDE ADDITIONAL CONTROL JOINTS AT ABRUPT CHANGES IN THICKNESS COORDINATE LOCATIONS WITH FLOOR FINISHES AND INTERIOR WALLS.
3. CONTRACTOR SHALL SUBMIT PROPOSED CONTROL JOINT LAYOUT FOR DESIGN TEAM REVIEW PRIOR TO CONCRETE PLACEMENT.

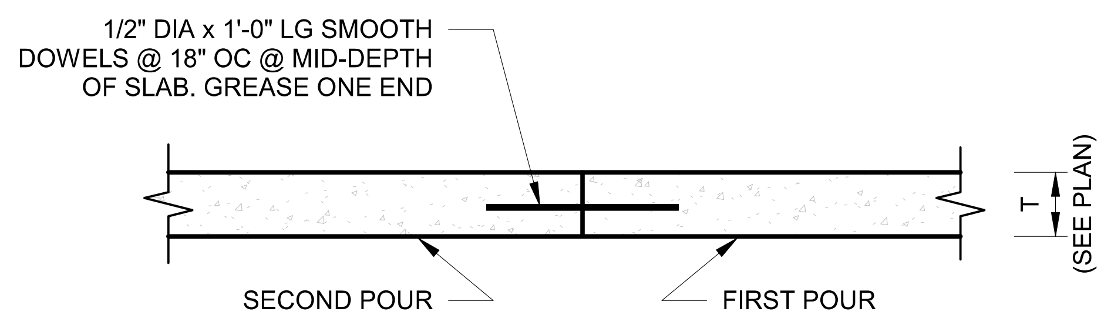
TYPICAL CONTROL JOINT KEY PLAN

1 S311

SCALE: 1/8" = 1'-0"


1/8" (MAX) SAWCUT
SAWCUT CONTRACTION JOINT:
SAWCUT SLAB WITHIN 4 HOURS OF CONCRETE PLACEMENT USING EARLY-ENTRY DRY-CUT SAW OR WITHIN 12 HOURS USING WET-CUT SAW
FILL SAWCUT WITH JOINT FILLER
SAWCUT DEPTH:
FIBER REINFORCED SLABS = T/3
SAWCUT DEPTH
T
(SEE PLAN)

SAWCUT CONTRACTION JOINT AT FIBERS


1/2" DIA x 1'-0" LG SMOOTH DOWELS @ 18" OC @ MID-DEPTH OF SLAB. GREASE ONE END
T
(SEE PLAN)
SECOND POUR
FIRST POUR

NOTES:

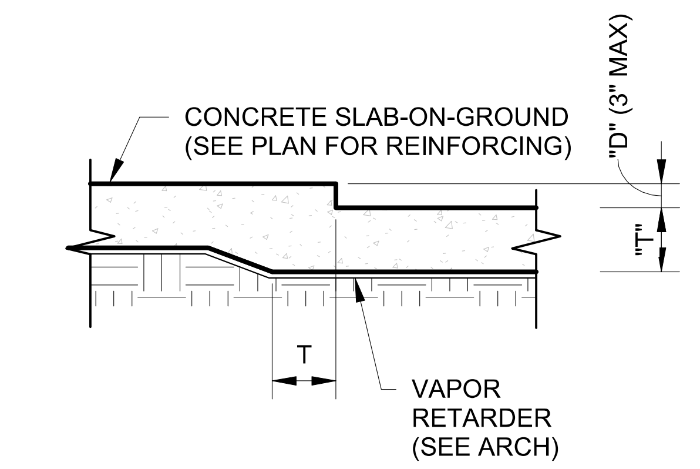
1. APPLY A SPRAY-ON BOND BREAKER TO THE FIRST POUR PRIOR TO PLACING THE SECOND POUR.

CONSTRUCTION JOINT AT FIBERS

TYPICAL CONSTRUCTION/CONTRACTION JOINT DETAILS - SECTION

2 S311

SCALE: 1" = 1'-0"



3" MAX

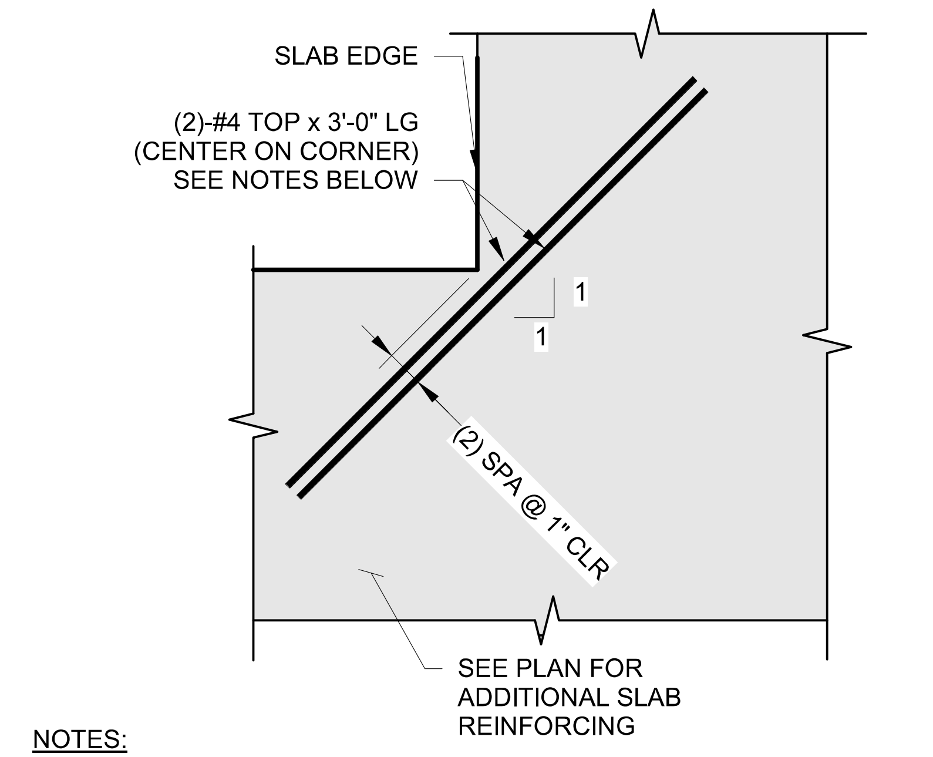
NOTES:

1. T = SLAB THICKNESS (SEE PLAN)
2. D = SLAB DEPRESSION (SEE ARCH)

TYPICAL DEPRESSED SLAB - SECTION

3 S311

SCALE: 1" = 1'-0"



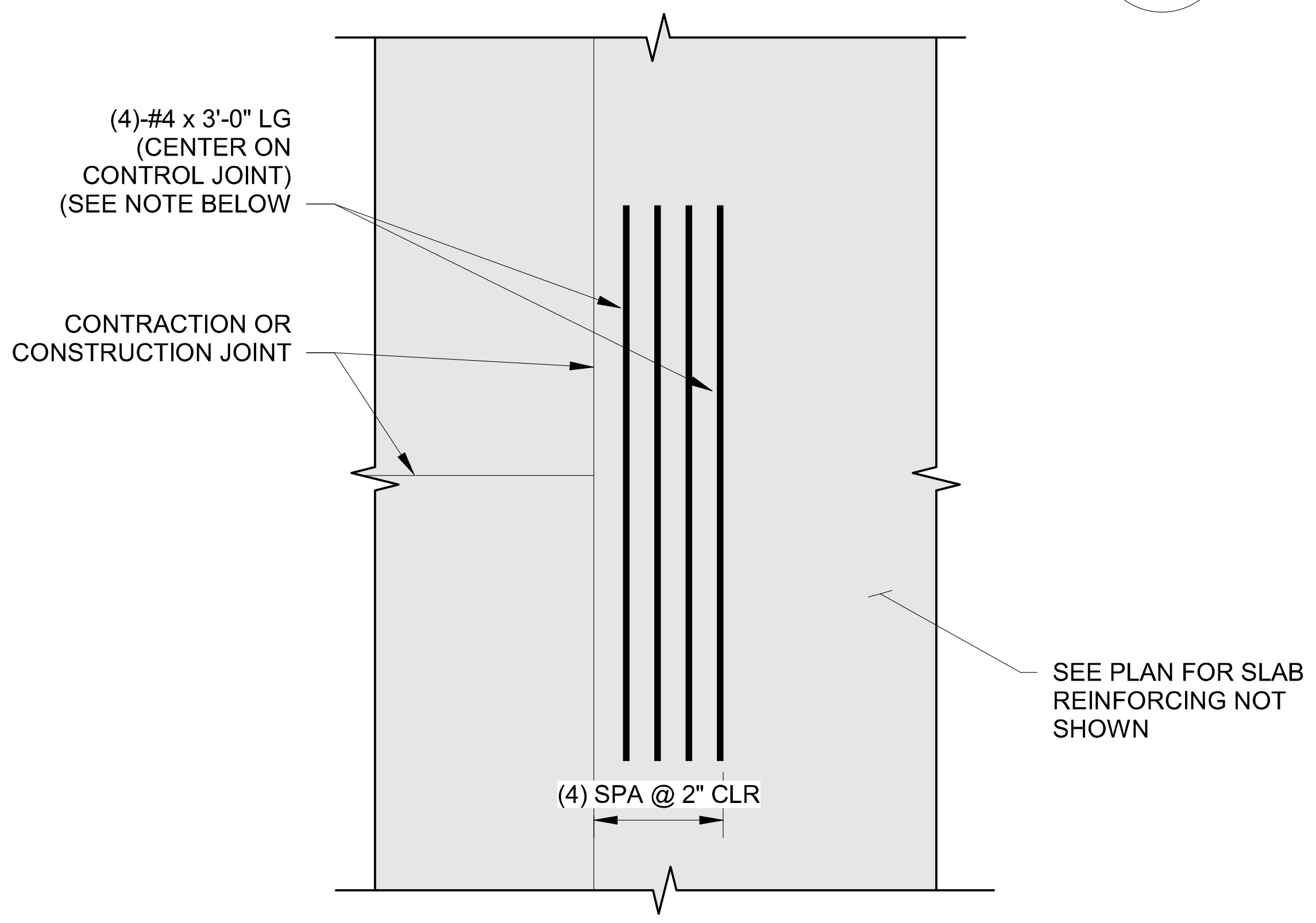
NOTES:

1. INSTALL REINFORCING 1" CLEAR FROM TOP OF SLAB.
2. REENTRANT CORNER REINFORCING IS NOT REQUIRED WHEN A CONSTRUCTION OR SAWCUT CONTRACTION JOINT ALIGNS WITH THE CORNER. REINFORCEMENT SHALL NOT CROSS CONSTRUCTION OR SAWCUT CONTRACTION JOINTS THAT ALLOW FOR MOVEMENT.

TYPICAL ADDITIONAL SLAB CORNER REINFORCING - PLAN

4 S311

SCALE: 1" = 1'-0"


(4)-#4 x 3'-0" LG
(CENTER ON CONTROL JOINT)
(SEE NOTE BELOW
CONTRACTION OR CONSTRUCTION JOINT
SEE PLAN FOR SLAB REINFORCING NOT SHOWN
(4) SPA @ 2" CLR

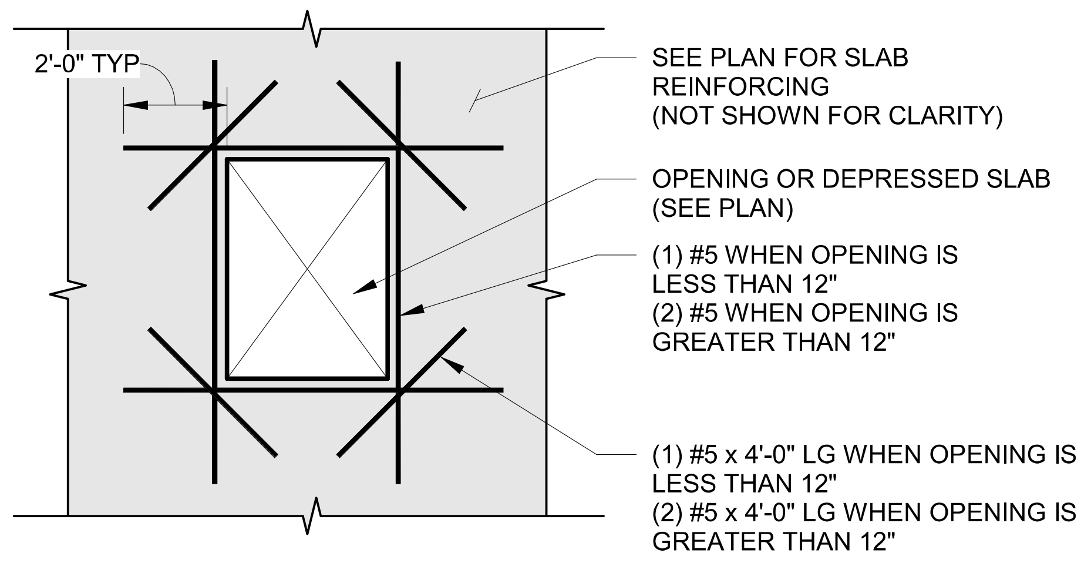
NOTES:

1. INSTALL REINFORCING 1" CLEAR BELOW TOP OF SLAB.

TYPICAL DEAD END CONTROL JOINT REINFORCING - PLAN

5 S311

SCALE: 1" = 1'-0"


2'-0" TYP
SEE PLAN FOR SLAB REINFORCING
(NOT SHOWN FOR CLARITY)
OPENING OR DEPRESSED SLAB
(SEE PLAN)
(1) #5 WHEN OPENING IS LESS THAN 12"
(2) #5 WHEN OPENING IS GREATER THAN 12"
(1) #5 x 4'-0" LG WHEN OPENING IS LESS THAN 12"
(2) #5 x 4'-0" LG WHEN OPENING IS GREATER THAN 12"

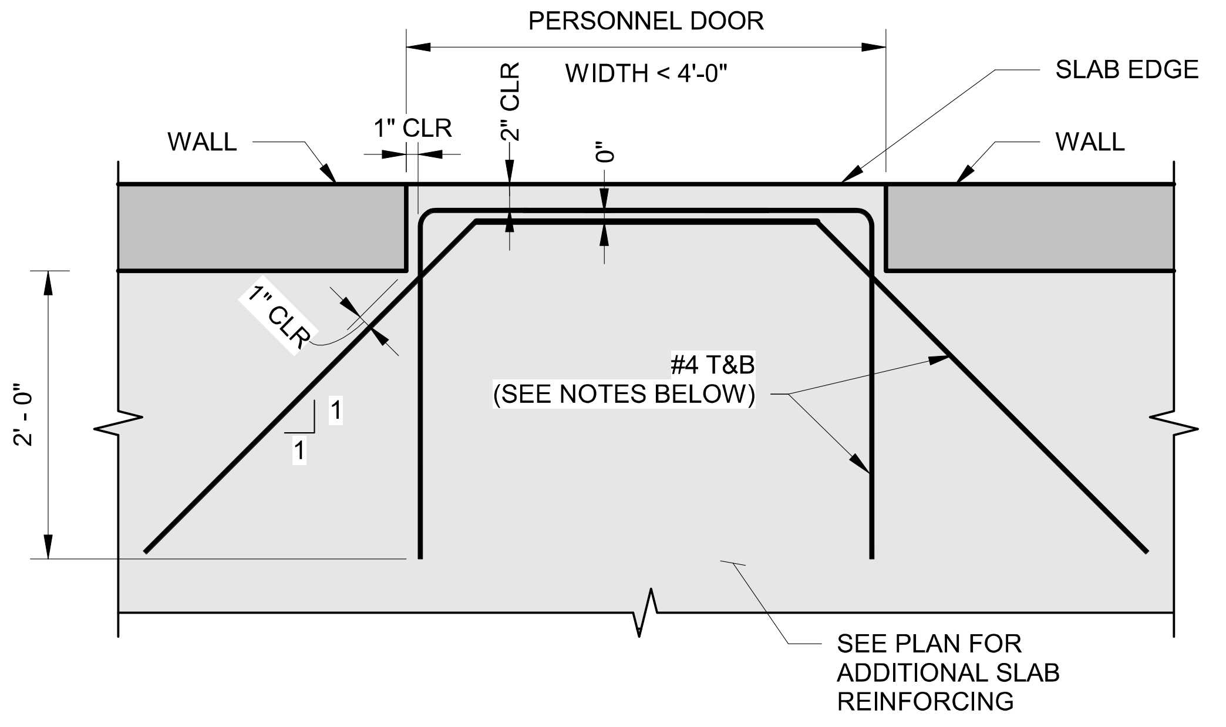
NOTES:

1. DETAIL APPLIES FOR ALL OPENINGS IN SLABS ON GROUND AND TOPPING SLABS.

TYPICAL REINFORCING AT SLAB-ON-GROUND OPENINGS - PLAN

6 S311

NOT TO SCALE



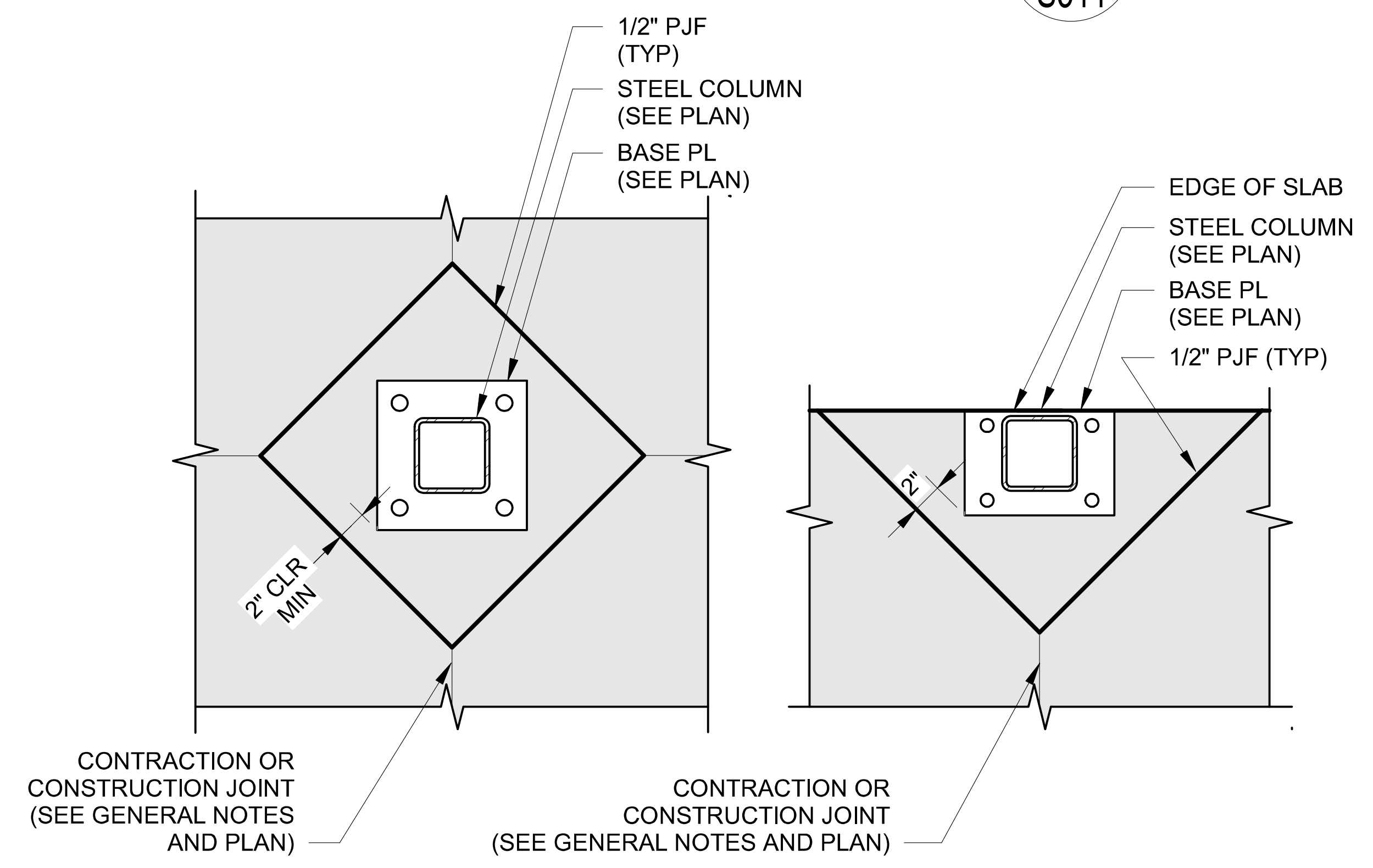
NOTES:

1. INSTALL REINFORCING 1" CLEAR FROM TOP OF SLAB.
2. DIAGONAL CORNER REINFORCING IS NOT REQUIRED WHEN A CONSTRUCTION OR SAWCUT CONTRACTION JOINT ALIGNS WITH THE EDGE OF THE OPENING. REINFORCEMENT SHALL NOT CROSS CONSTRUCTION OR SAWCUT CONTRACTION JOINTS THAT ALLOW FOR MOVEMENT.
3. DETAIL ONLY APPLICABLE WHERE WALL INTERRUPTS SLAB AND CREATES RE-ENTRANT CORNERS IN SLAB.

TYPICAL SLAB REINFORCING AT DOORS - PLAN

7 S311

SCALE: 3/4" = 1'-0"



INTERIOR **EXTERIOR EDGE**

NOTES:

1. COLUMN BOX OUT SHALL BE NOT LESS THAN 2'-0" x 2'-0". GENERAL CONTRACTOR SHALL INCREASE BOX OUT AS REQUIRED TO ALLOW FOR GROUTING UNDER BASE PLATE, WELDING OF WASHERS TO BASE PLATE AT DEEPER FOOTINGS AND ATTACHING OF DIAGONAL BRACING MEMBER.

TYPICAL ISOLATION JOINT- PLAN

8 S311

SCALE: 1" = 1'-0"

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SLAB-ON-GROUND DETAILS

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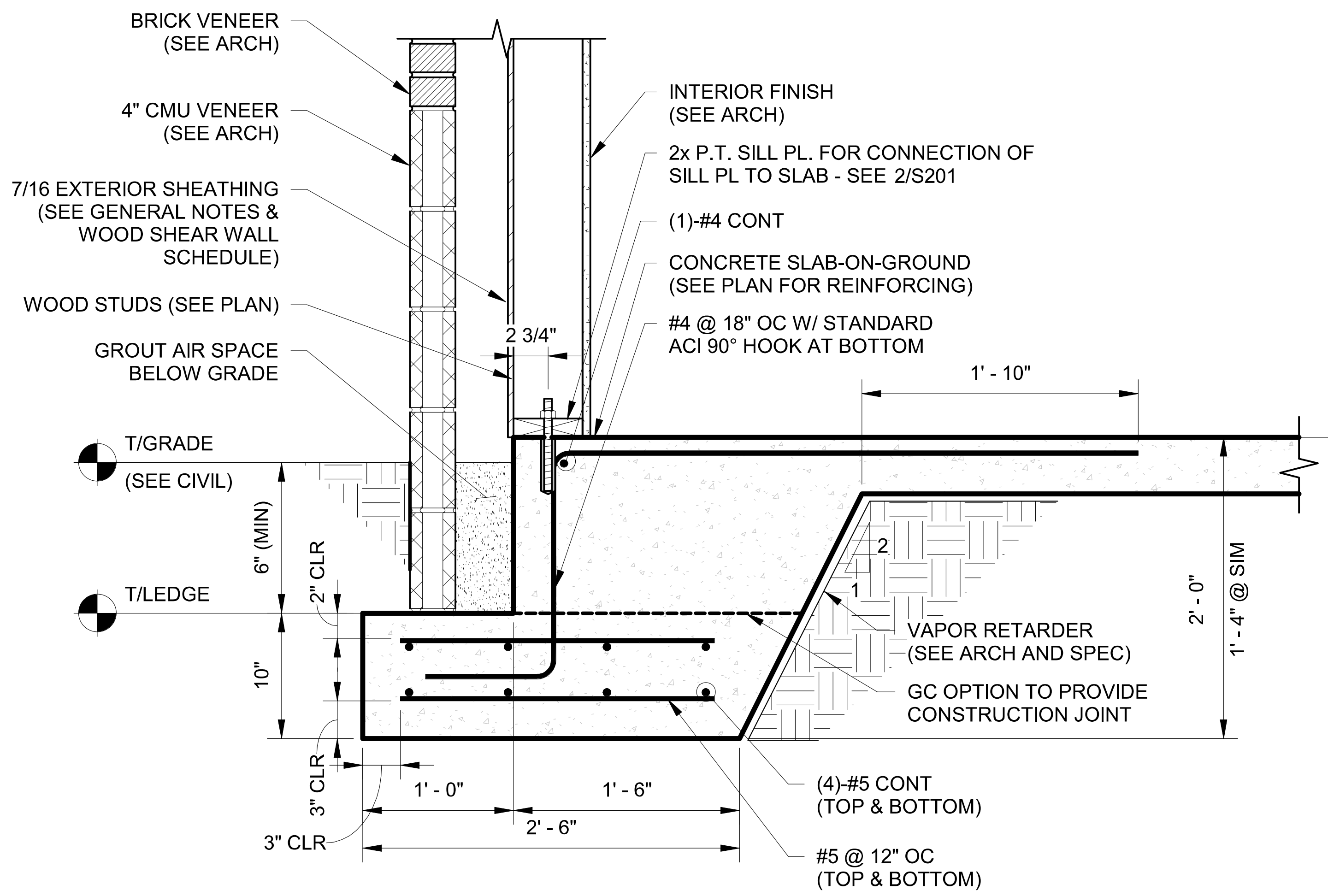
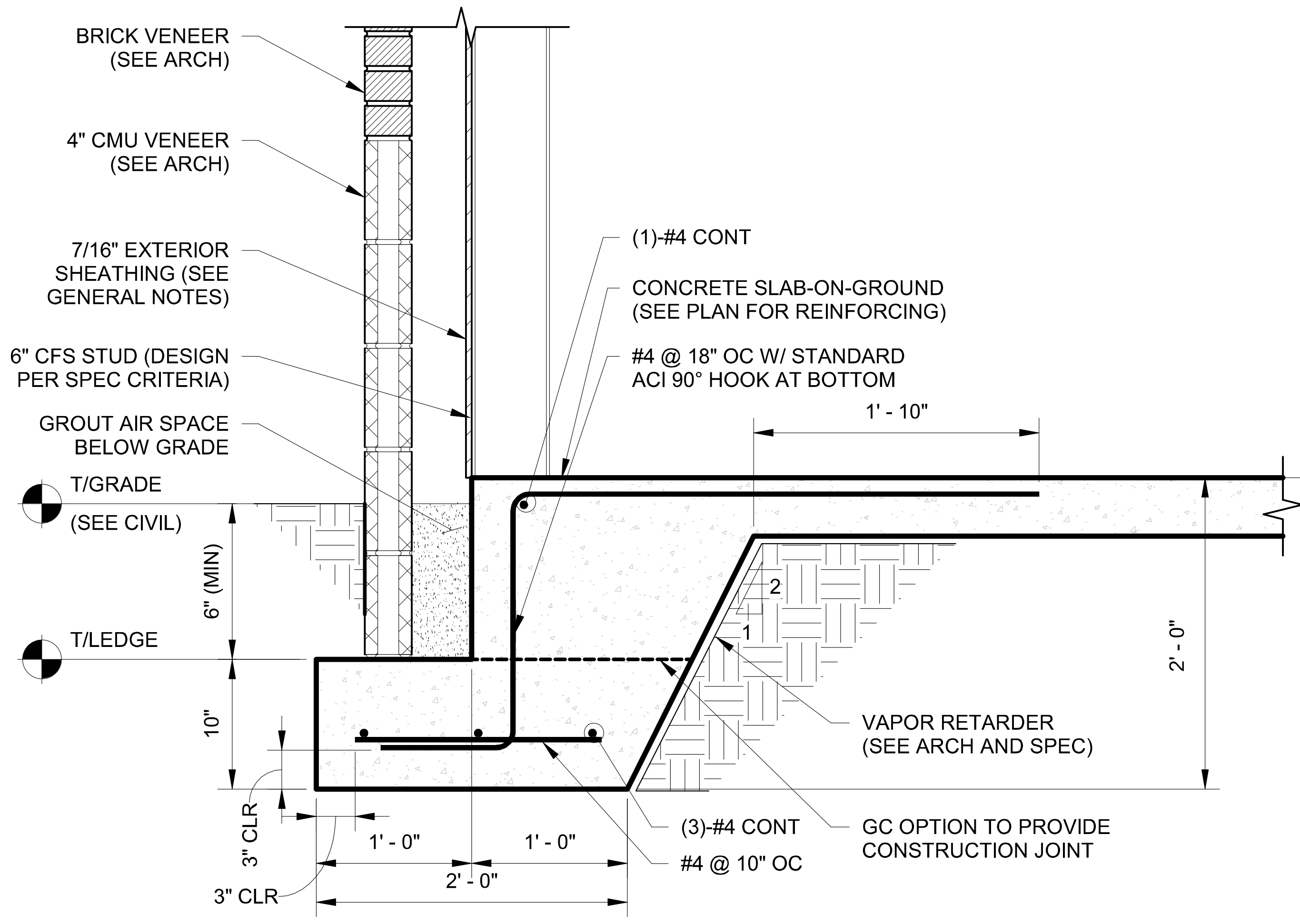

BRICK VENEER (SEE ARCH)
4" CMU VENEER (SEE ARCH)
7/16 EXTERIOR SHEATHING (SEE GENERAL NOTES & WOOD SHEAR WALL SCHEDULE)
WOOD STUDS (SEE PLAN)
GROUT AIR SPACE BELOW GRADE
T/GRADE
(SEE CIVIL)
T/LEDGE
INTERIOR FINISH (SEE ARCH)
2x P.T. SILL PL. FOR CONNECTION OF SILL PL TO SLAB - SEE 2/S201
(1)-#4 CONT
CONCRETE SLAB-ON-GROUND (SEE PLAN FOR REINFORCING)
#4 @ 18" OC W/ STANDARD ACI 90° HOOK AT BOTTOM
2 3/4"
1' - 10"
T/SLAB
(SEE PLAN)
6" (MIN)
2" CLR
10"
3" CLR
3" CLR
1' - 0"
1' - 6"
2' - 6"
2' - 0"
1' - 4" @ SIM
2
1
VAPOR RETARDER (SEE ARCH AND SPEC)
GC OPTION TO PROVIDE CONSTRUCTION JOINT
(4)-#5 CONT (TOP & BOTTOM)
#5 @ 12" OC (TOP & BOTTOM)

TYPICAL THICKENED SLAB AT BRICK EXERIOR LOAD-BEARING WALL - SECTION

1 S312

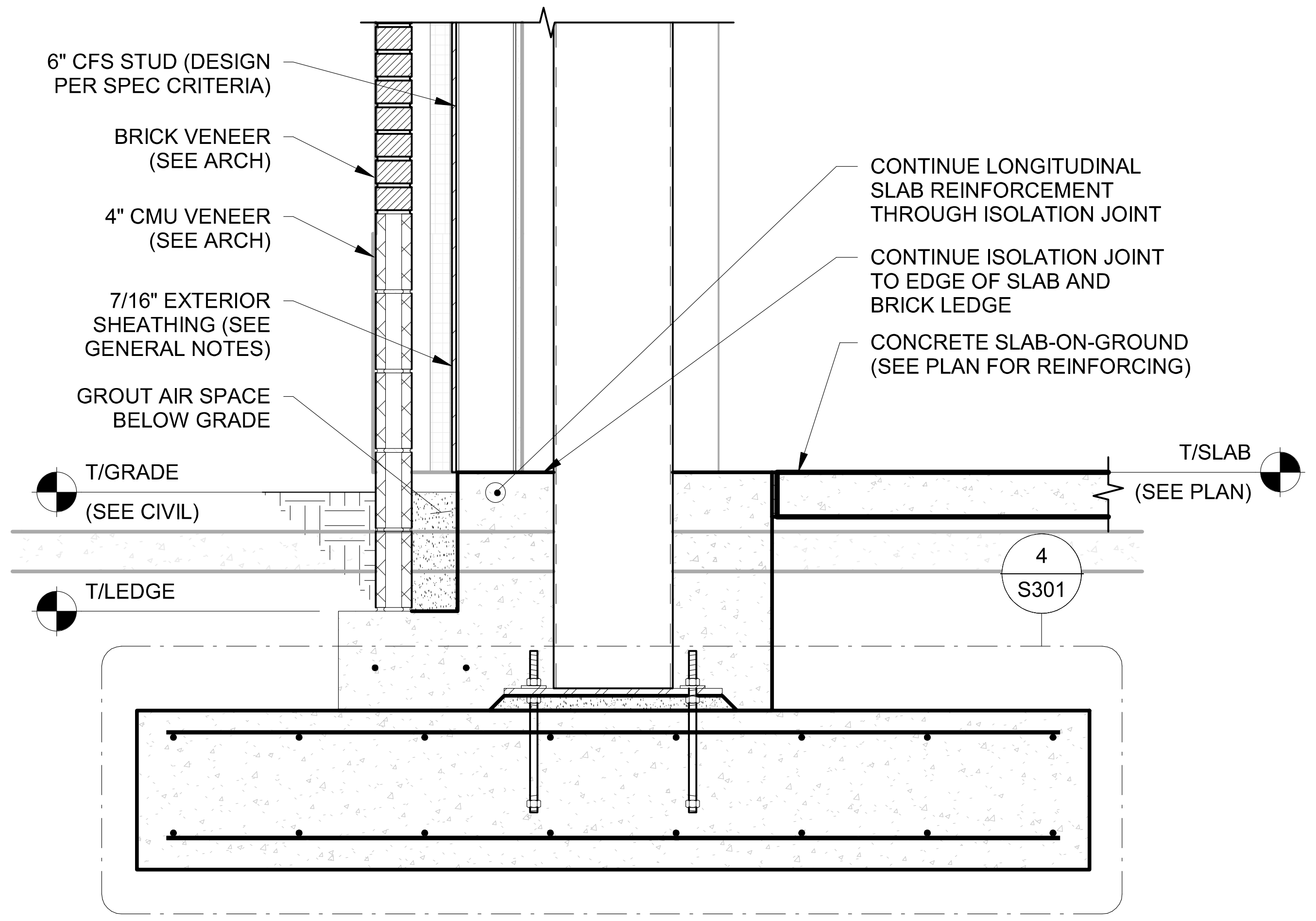
SCALE: 1" = 1'-0"


BRICK VENEER (SEE ARCH)
4" CMU VENEER (SEE ARCH)
7/16" EXTERIOR SHEATHING (SEE GENERAL NOTES)
6" CFS STUD (DESIGN PER SPEC CRITERIA)
GROUT AIR SPACE BELOW GRADE
T/GRADE
(SEE CIVIL)
T/LEDGE
(1)-#4 CONT
CONCRETE SLAB-ON-GROUND (SEE PLAN FOR REINFORCING)
#4 @ 18" OC W/ STANDARD ACI 90° HOOK AT BOTTOM
1' - 10"
T/SLAB
(SEE PLAN)
6" (MIN)
10"
3" CLR
3" CLR
1' - 0"
1' - 0"
2' - 0"
2' - 0"
2
1
VAPOR RETARDER (SEE ARCH AND SPEC)
(3)-#4 CONT
#4 @ 10" OC
GC OPTION TO PROVIDE CONSTRUCTION JOINT

TYPICAL THICKENED SLAB AT BRICK EXERIOR CFS WALL - SECTION

2 S312

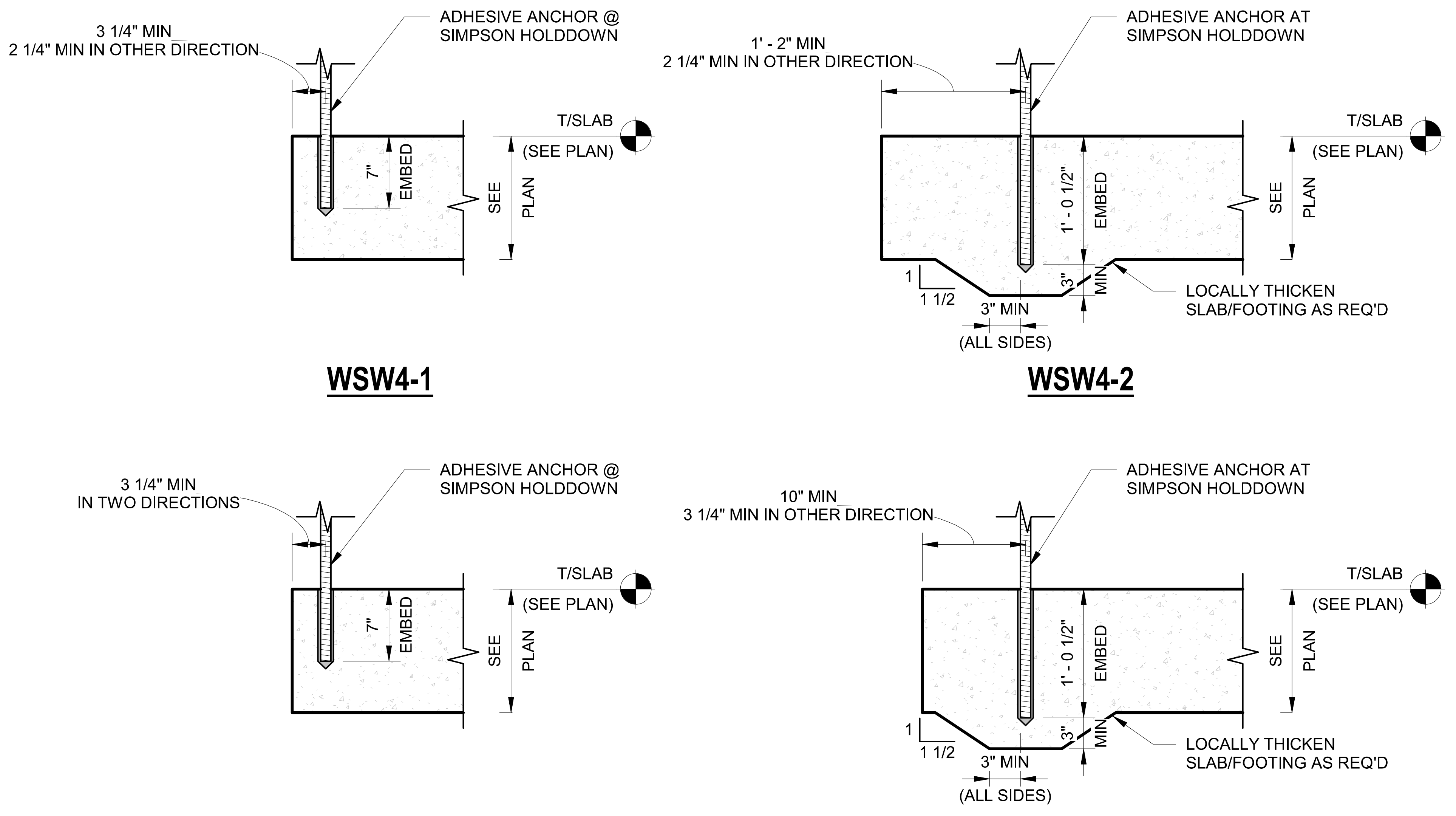
SCALE: 1" = 1'-0"


6" CFS STUD (DESIGN PER SPEC CRITERIA)
BRICK VENEER (SEE ARCH)
4" CMU VENEER (SEE ARCH)
7/16" EXTERIOR SHEATHING (SEE GENERAL NOTES)
GROUT AIR SPACE BELOW GRADE
T/GRADE
(SEE CIVIL)
T/LEDGE
CONTINUE LONGITUDINAL SLAB REINFORCEMENT THROUGH ISOLATION JOINT
CONTINUE ISOLATION JOINT TO EDGE OF SLAB AND BRICK LEDGE
CONCRETE SLAB-ON-GROUND (SEE PLAN FOR REINFORCING)
T/SLAB
(SEE PLAN)
4
S301

COLUMN FOOTING AT EXTERIOR WALL - SECTION

3 S312

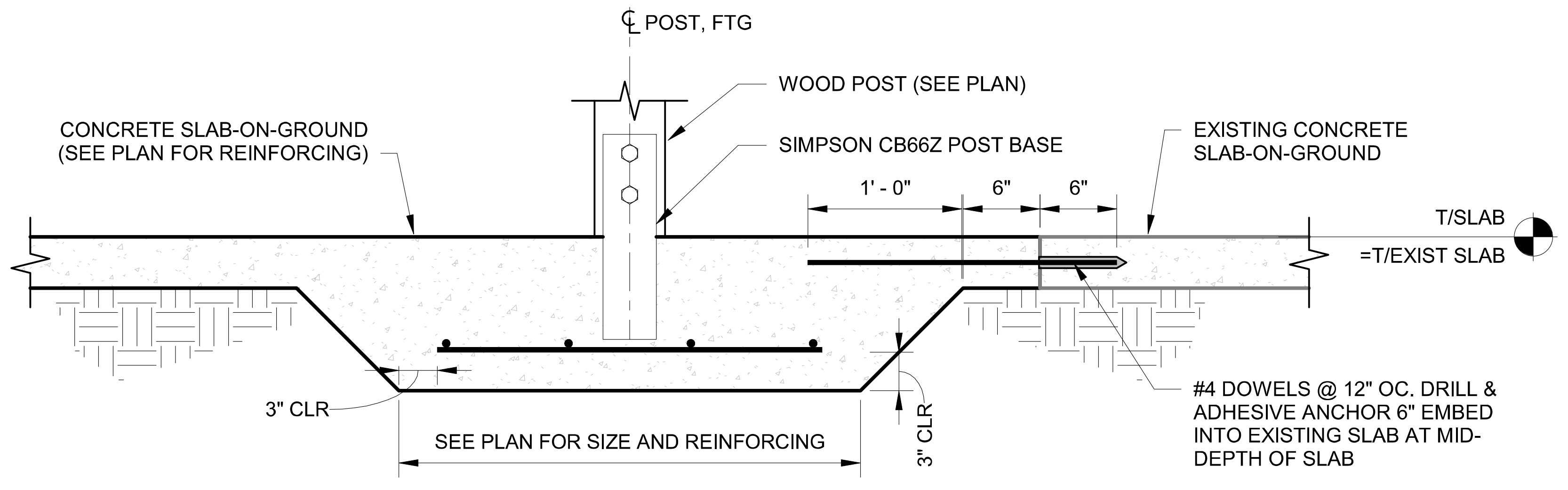
SCALE: 3/4" = 1'-0"


3 1/4" MIN
2 1/4" MIN IN OTHER DIRECTION
ADHESIVE ANCHOR @ SIMPSON HOLDDOWN
T/SLAB
(SEE PLAN)
7"
EMBED
SEE PLAN
1' - 2" MIN
2 1/4" MIN IN OTHER DIRECTION
ADHESIVE ANCHOR AT SIMPSON HOLDDOWN
T/SLAB
(SEE PLAN)
1' - 0 1/2"
EMBED
SEE PLAN
1
1 1/2
3" MIN
3" MIN
(ALL SIDES)
LOCALLY THICKEN SLAB/FOOTING AS REQ'D
WSW4-1
WSW4-2
3 1/4" MIN
IN TWO DIRECTIONS
ADHESIVE ANCHOR @ SIMPSON HOLDDOWN
T/SLAB
(SEE PLAN)
7"
EMBED
SEE PLAN
10" MIN
3 1/4" MIN IN OTHER DIRECTION
ADHESIVE ANCHOR AT SIMPSON HOLDDOWN
T/SLAB
(SEE PLAN)
1' - 0 1/2"
EMBED
SEE PLAN
1
1 1/2
3" MIN
3" MIN
(ALL SIDES)
LOCALLY THICKEN SLAB/FOOTING AS REQ'D
WSW6-1
WSW6-2

SHEAR WALL SIMPSON HOLDDOWN ANCHORAGE DETAIL - SECTION

4 S312

SCALE: 1" = 1'-0"


℄ POST, FTG
WOOD POST (SEE PLAN)
SIMPSON CB66Z POST BASE
CONCRETE SLAB-ON-GROUND (SEE PLAN FOR REINFORCING)
EXISTING CONCRETE SLAB-ON-GROUND
1' - 0"
6"
6"
T/SLAB
=T/EXIST SLAB
3" CLR
SEE PLAN FOR SIZE AND REINFORCING
3" CLR
#4 DOWELS @ 12" OC. DRILL & ADHESIVE ANCHOR 6" EMBED INTO EXISTING SLAB AT MID-DEPTH OF SLAB

THICKENED SLAB AT WOOD POST - SECTION

5 S312

SCALE: 1" = 1'-0"

ALPHA BLDG SET 09-01-2026

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

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No. SE000165
CHAD FORSTER

Chad A Forster
2026.08.18
17:23:42-04'00'

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA
NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: ARB
DRAWN: ALK
CHECKED: CAF
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

SLAB-ON-GROUND DETAILS

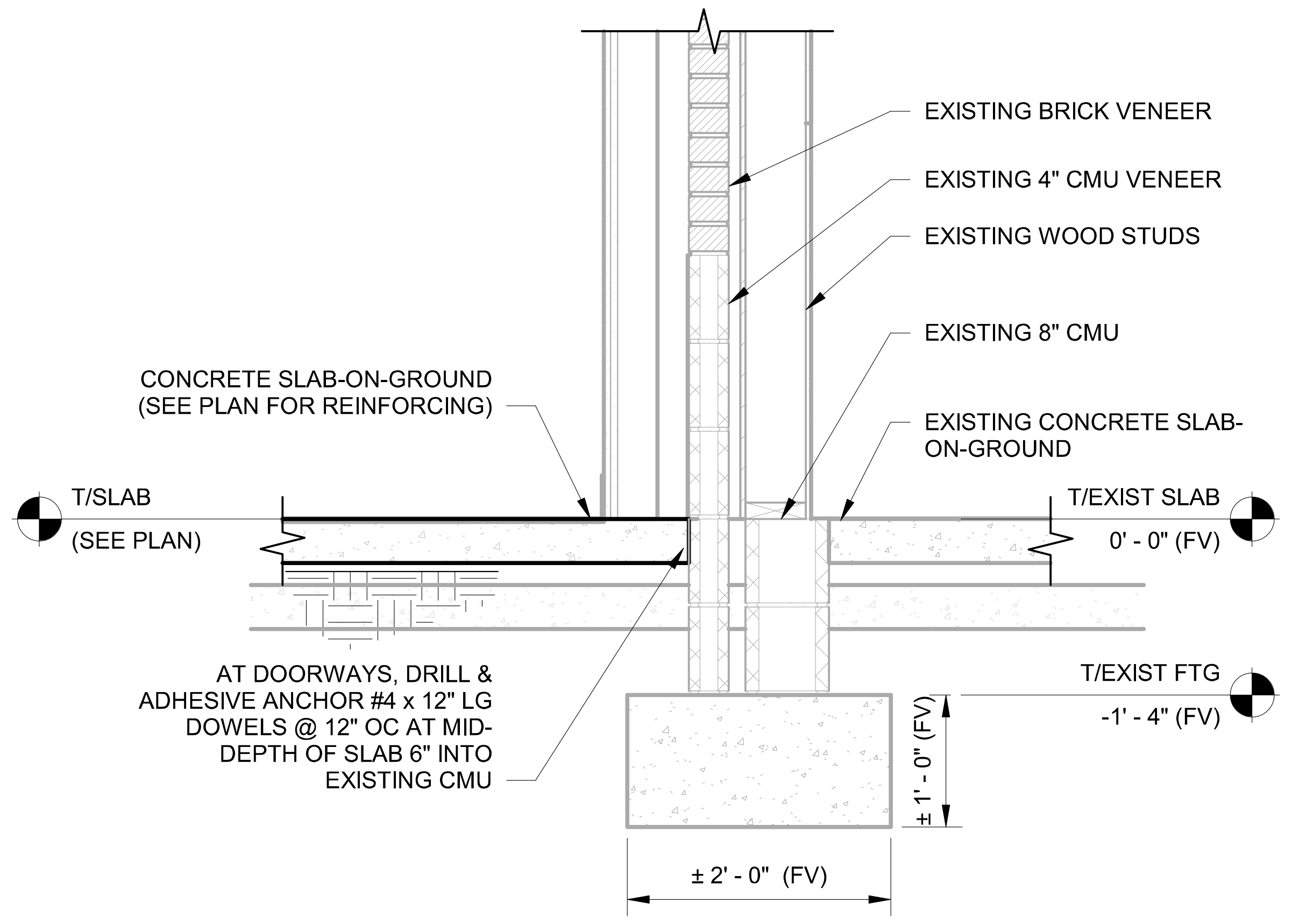
PES STRUCTURAL ENGINEERS

ADDRESS 1852 Century Place NE, Suite 201, Atlanta Georgia 30345
PHONE 770.457.5923 **WEB** www.pesengineers.com
PES PROJECT NUMBER: 0250683
PES GEORGIA LICENSE NUMBER: PEF000799
EXPIRATION DATE: 6/30/2028

DRAWING NUMBER
S312

Path: Autodesk Docs://NCWSA Admin Bldg._V25/0250683-NCWSA Office Addition-R25-STRUCT.rvt

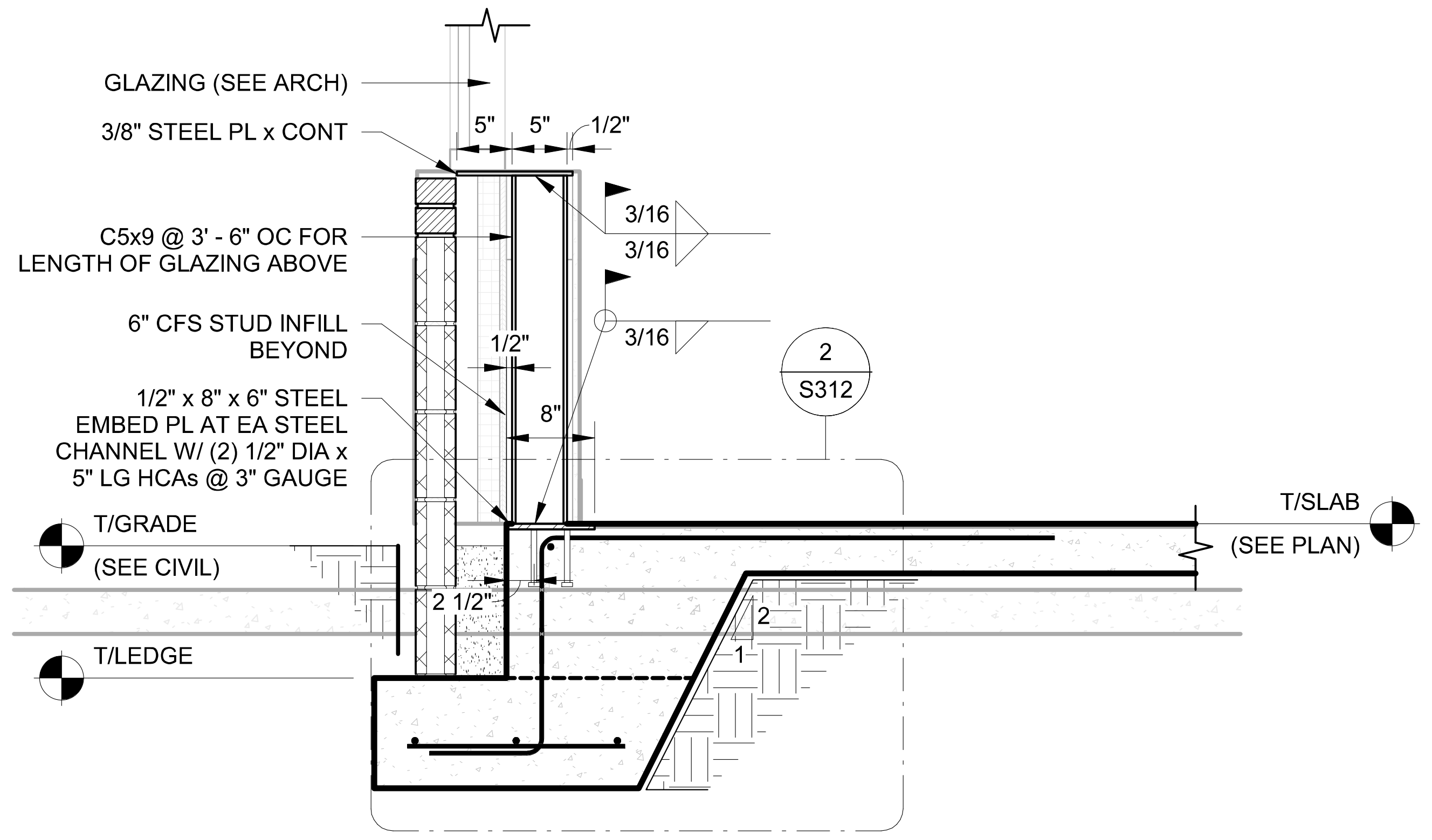
Plot Date: 8/18/2026 2:16:20 PM


EXISTING BRICK VENEER
EXISTING 4" CMU VENEER
EXISTING WOOD STUDS
EXISTING 8" CMU
CONCRETE SLAB-ON-GROUND (SEE PLAN FOR REINFORCING)
EXISTING CONCRETE SLAB-ON-GROUND
T/SLAB
(SEE PLAN)
T/EXIST SLAB
0' - 0" (FV)
AT DOORWAYS, DRILL & ADHESIVE ANCHOR #4 x 12" LG DOWELS @ 12" OC AT MID-DEPTH OF SLAB 6" INTO EXISTING CMU
T/EXIST FTG
-1' - 4" (FV)
± 1' - 0" (FV)
± 2' - 0" (FV)

SLAB-ON-GROUND AT EXISTING BRICK VENEER - SECTION

1
S313

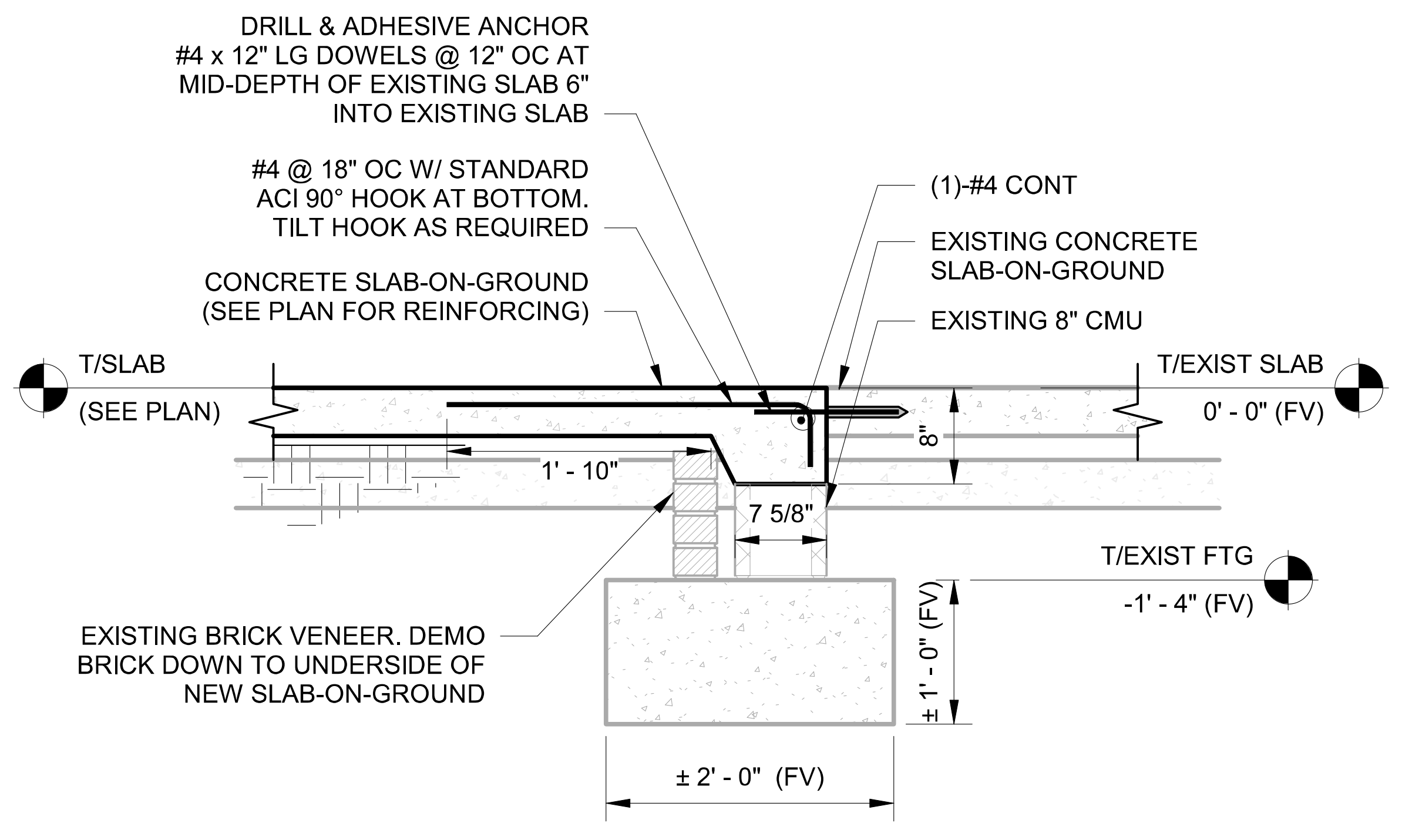
SCALE: 3/4" = 1'-0"


GLAZING (SEE ARCH)
3/8" STEEL PL x CONT
5"
5"
1/2"
C5x9 @ 3' - 6" OC FOR LENGTH OF GLAZING ABOVE
3/16
3/16
3/16
6" CFS STUD INFILL BEYOND
1/2"
2
S312
1/2" x 8" x 6" STEEL EMBED PL AT EA STEEL CHANNEL W/ (2) 1/2" DIA x 5" LG HCAs @ 3" GAUGE
8"
T/GRADE
(SEE CIVIL)
T/SLAB
(SEE PLAN)
2 1/2"
2
1
T/LEDGE

CANTILEVERED STEEL CHANNEL AT WINDOW SILL SUPPORT - SECTION

2
S313

SCALE: 3/4" = 1'-0"

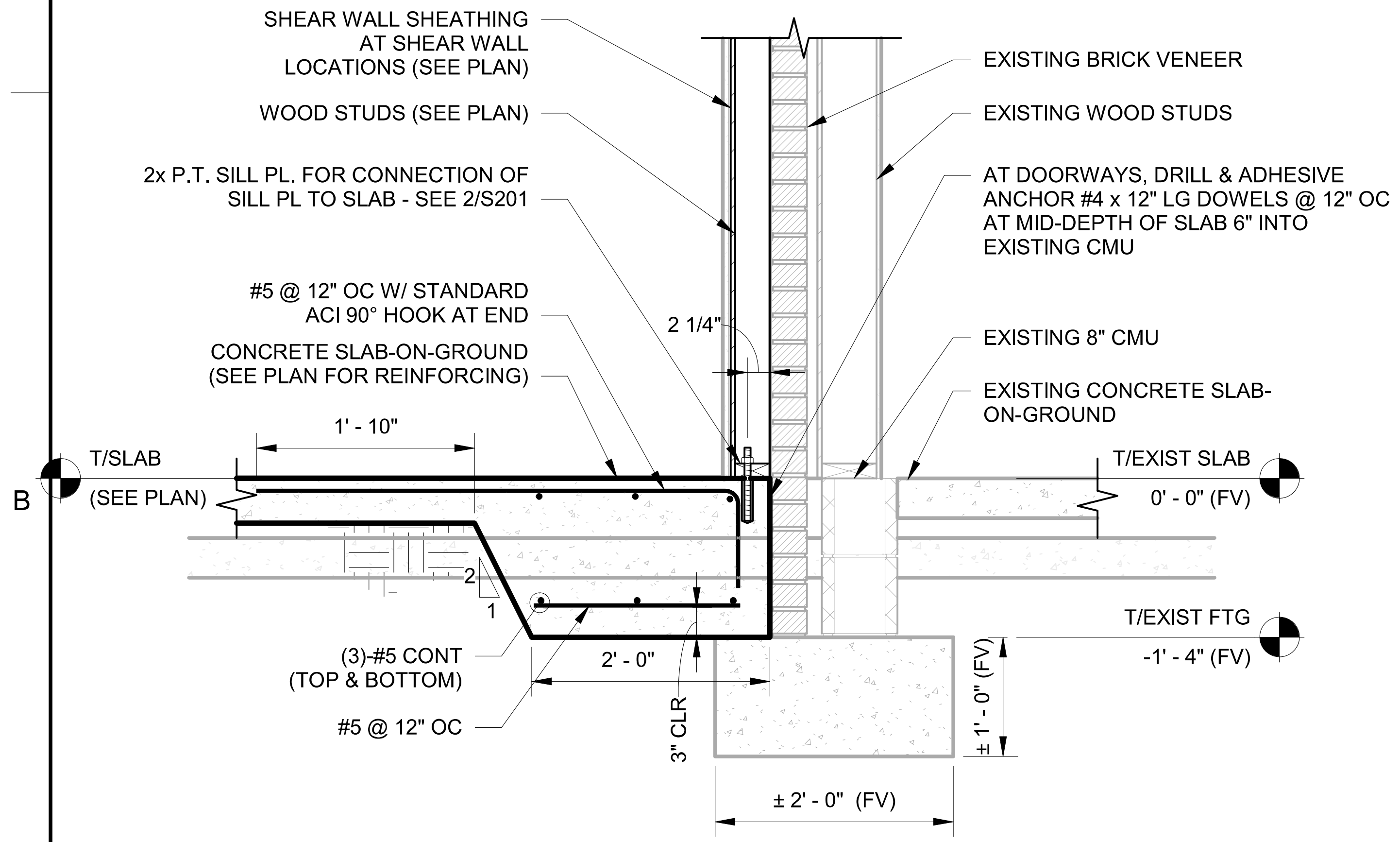

DRILL & ADHESIVE ANCHOR #4 x 12" LG DOWELS @ 12" OC AT MID-DEPTH OF EXISTING SLAB 6" INTO EXISTING SLAB
#4 @ 18" OC W/ STANDARD ACI 90° HOOK AT BOTTOM. TILT HOOK AS REQUIRED
CONCRETE SLAB-ON-GROUND (SEE PLAN FOR REINFORCING)
(1)-#4 CONT
EXISTING CONCRETE SLAB-ON-GROUND
EXISTING 8" CMU
T/SLAB
(SEE PLAN)
T/EXIST SLAB
0' - 0" (FV)
8"
1' - 10"
7 5/8"
EXISTING BRICK VENEER. DEMO BRICK DOWN TO UNDERSIDE OF NEW SLAB-ON-GROUND
T/EXIST FTG
-1' - 4" (FV)
± 1' - 0" (FV)
± 2' - 0" (FV)

SLAB-ON-GROUND AT EXISTING SLAB-ON-GROUND

3
S313

SCALE: 3/4" = 1'-0"

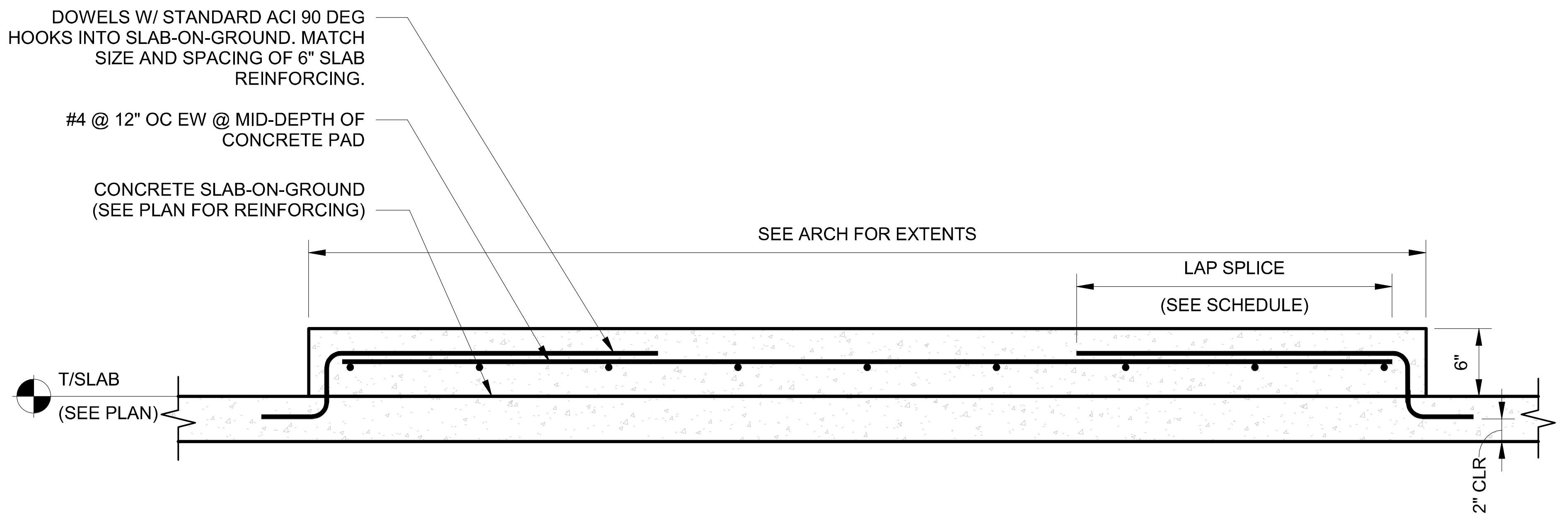
ALPHA BLDG SET 09-01-2026


SHEAR WALL SHEATHING AT SHEAR WALL LOCATIONS (SEE PLAN)
WOOD STUDS (SEE PLAN)
2x P.T. SILL PL. FOR CONNECTION OF SILL PL TO SLAB - SEE 2/S201
#5 @ 12" OC W/ STANDARD ACI 90° HOOK AT END
CONCRETE SLAB-ON-GROUND (SEE PLAN FOR REINFORCING)
1' - 10"
2 1/4"
EXISTING BRICK VENEER
EXISTING WOOD STUDS
AT DOORWAYS, DRILL & ADHESIVE ANCHOR #4 x 12" LG DOWELS @ 12" OC AT MID-DEPTH OF SLAB 6" INTO EXISTING CMU
EXISTING 8" CMU
EXISTING CONCRETE SLAB-ON-GROUND
T/SLAB
(SEE PLAN)
T/EXIST SLAB
0' - 0" (FV)
2
1
(3)-#5 CONT (TOP & BOTTOM)
#5 @ 12" OC
2' - 0"
3" CLR
± 1' - 0" (FV)
T/EXIST FTG
-1' - 4" (FV)
± 2' - 0" (FV)

INTERIOR LOAD-BEARING WOOD WALL AT EXISTING EXTERIOR WOOD WALL - SECTION

4
S313

SCALE: 3/4" = 1'-0"


DOWELS W/ STANDARD ACI 90 DEG HOOKS INTO SLAB-ON-GROUND. MATCH SIZE AND SPACING OF 6" SLAB REINFORCING.
#4 @ 12" OC EW @ MID-DEPTH OF CONCRETE PAD
CONCRETE SLAB-ON-GROUND (SEE PLAN FOR REINFORCING)
SEE ARCH FOR EXTENTS
LAP SPLICE
(SEE SCHEDULE)
6"
T/SLAB
(SEE PLAN)
2" CLR

BUILT-UP CONCRETE PAD - SECTION

5
S313

SCALE: 1" = 1'-0"

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

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AT FULL SIZE

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CLIENT PROJECT NUMBER

SLAB-ON-GROUND DETAILS

DRAWING NUMBER
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PES STRUCTURAL ENGINEERS

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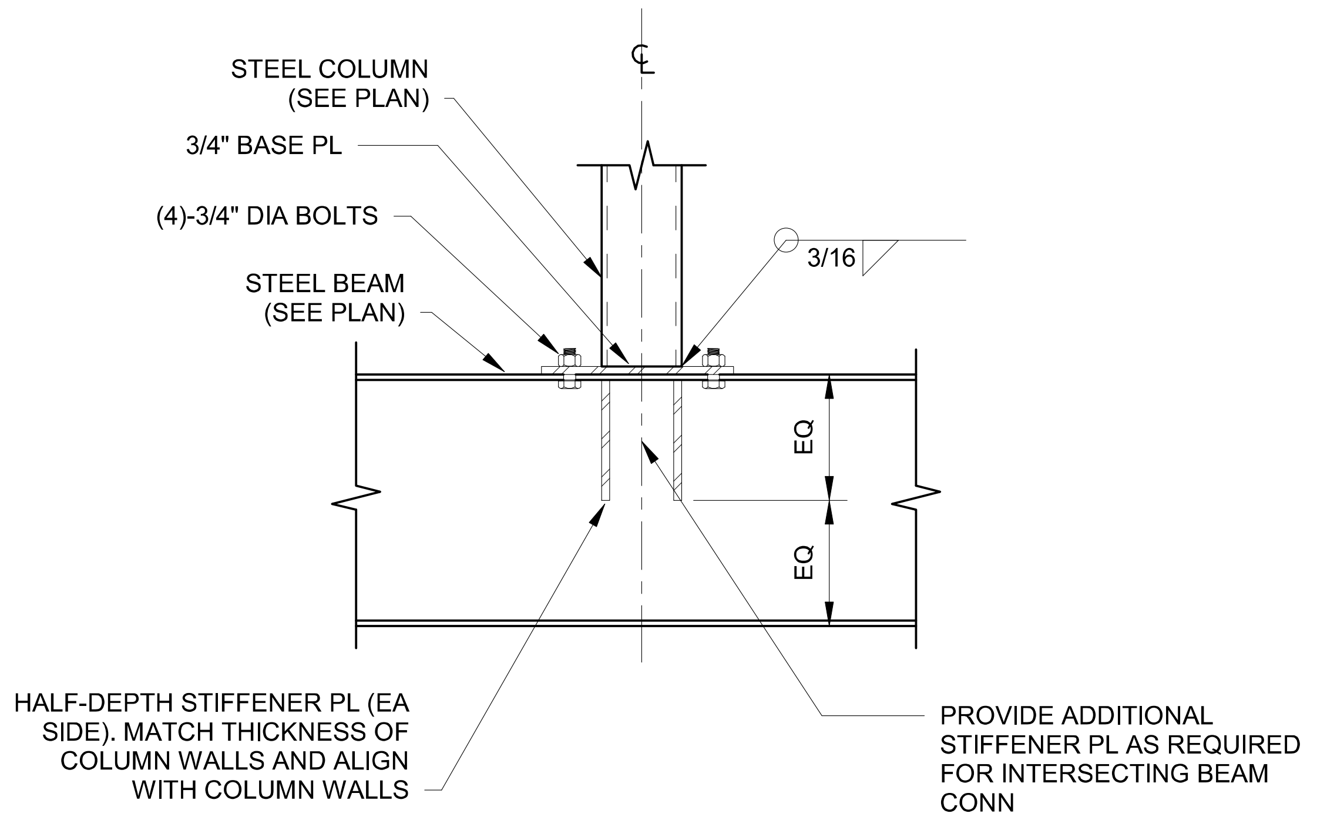
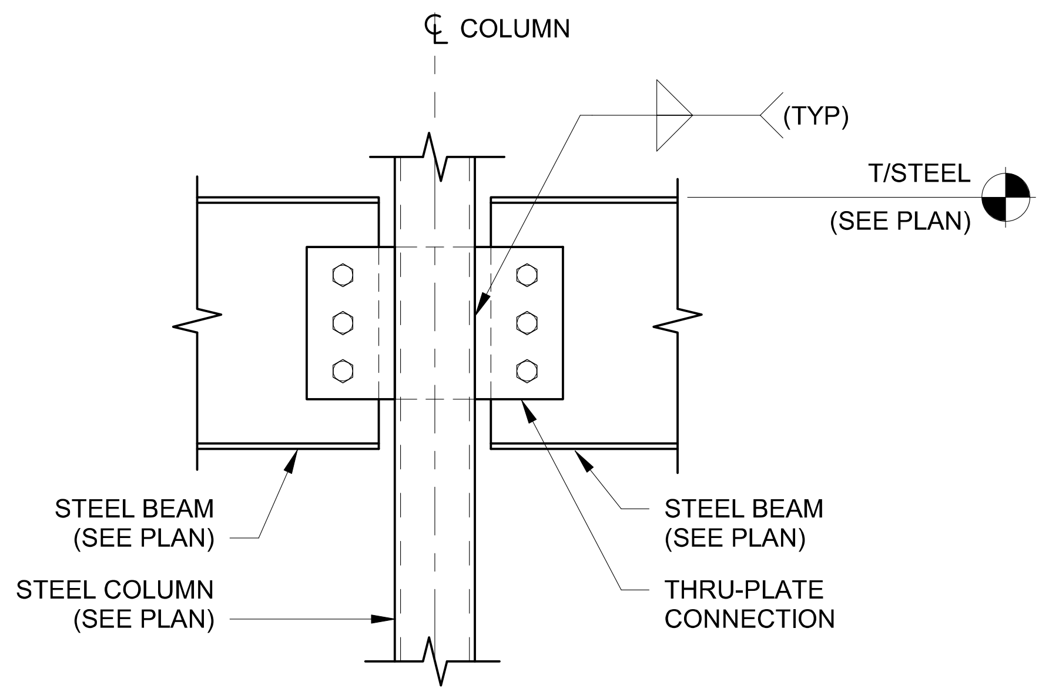
Plot Date: 8/18/2026 2:16:20 PM


STEEL COLUMN (SEE PLAN)
℄
3/4" BASE PL
(4)-3/4" DIA BOLTS
3/16
STEEL BEAM (SEE PLAN)
EQ
EQ
HALF-DEPTH STIFFENER PL (EA SIDE). MATCH THICKNESS OF COLUMN WALLS AND ALIGN WITH COLUMN WALLS
PROVIDE ADDITIONAL STIFFENER PL AS REQUIRED FOR INTERSECTING BEAM CONN

TYPICAL TRANSFER BEAM CONNECTIONS - DETAILS

SCALE: 1" = 1'-0"

1
S501



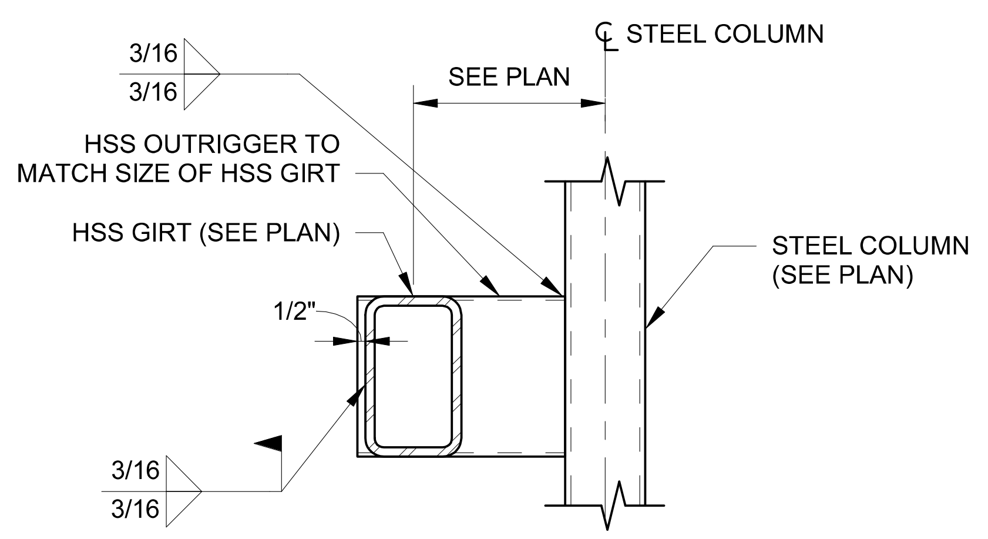
NOTES:

1. FABRICATOR SHALL SUBMIT DRAG CONNECTION CALCULATIONS WITH SHOP DRAWINGS. CONNECTIONS SHALL BE DESIGNED FOR FORCES SHOWN ON BRACE ELEVATIONS AND FRAMING PLANS.

DRAG CONNECTION AT BEAM TO HSS COLUMN - SECTION

SCALE: 1" = 1'-0"

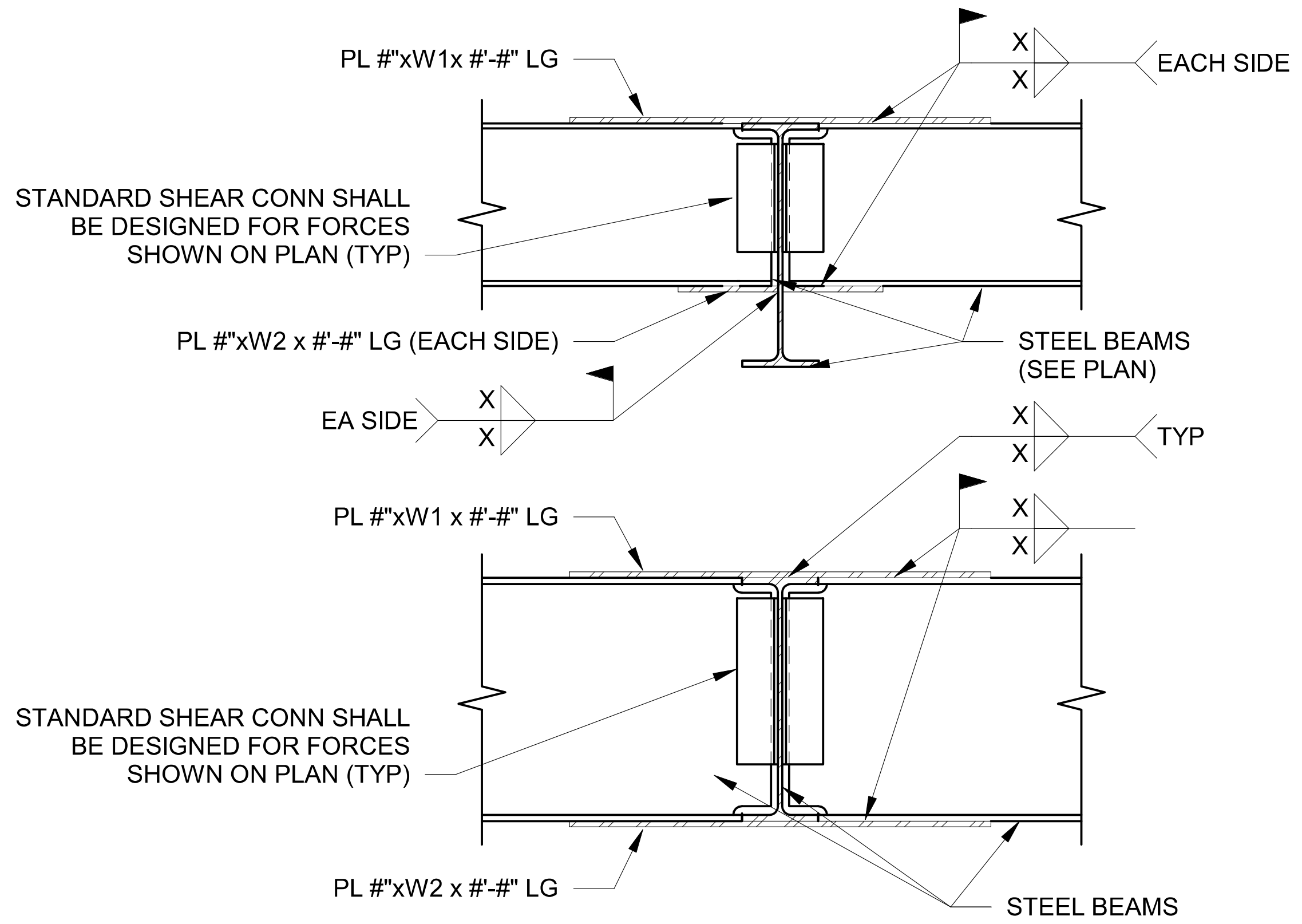
2
S501



TYPICAL HSS BEAM TO HSS COLUMN CONNECTION - DETAIL

SCALE: 1" = 1'-0"

3
S501


PL #"xW1x #'-#" LG
X
X
EACH SIDE
STANDARD SHEAR CONN SHALL BE DESIGNED FOR FORCES SHOWN ON PLAN (TYP)
PL #"xW2 x #'-#" LG (EACH SIDE)
STEEL BEAMS (SEE PLAN)
EA SIDE
X
X
X
X
TYP
PL #"xW1 x #'-#" LG
X
X
STANDARD SHEAR CONN SHALL BE DESIGNED FOR FORCES SHOWN ON PLAN (TYP)
PL #"xW2 x #'-#" LG
STEEL BEAMS (SEE PLAN)

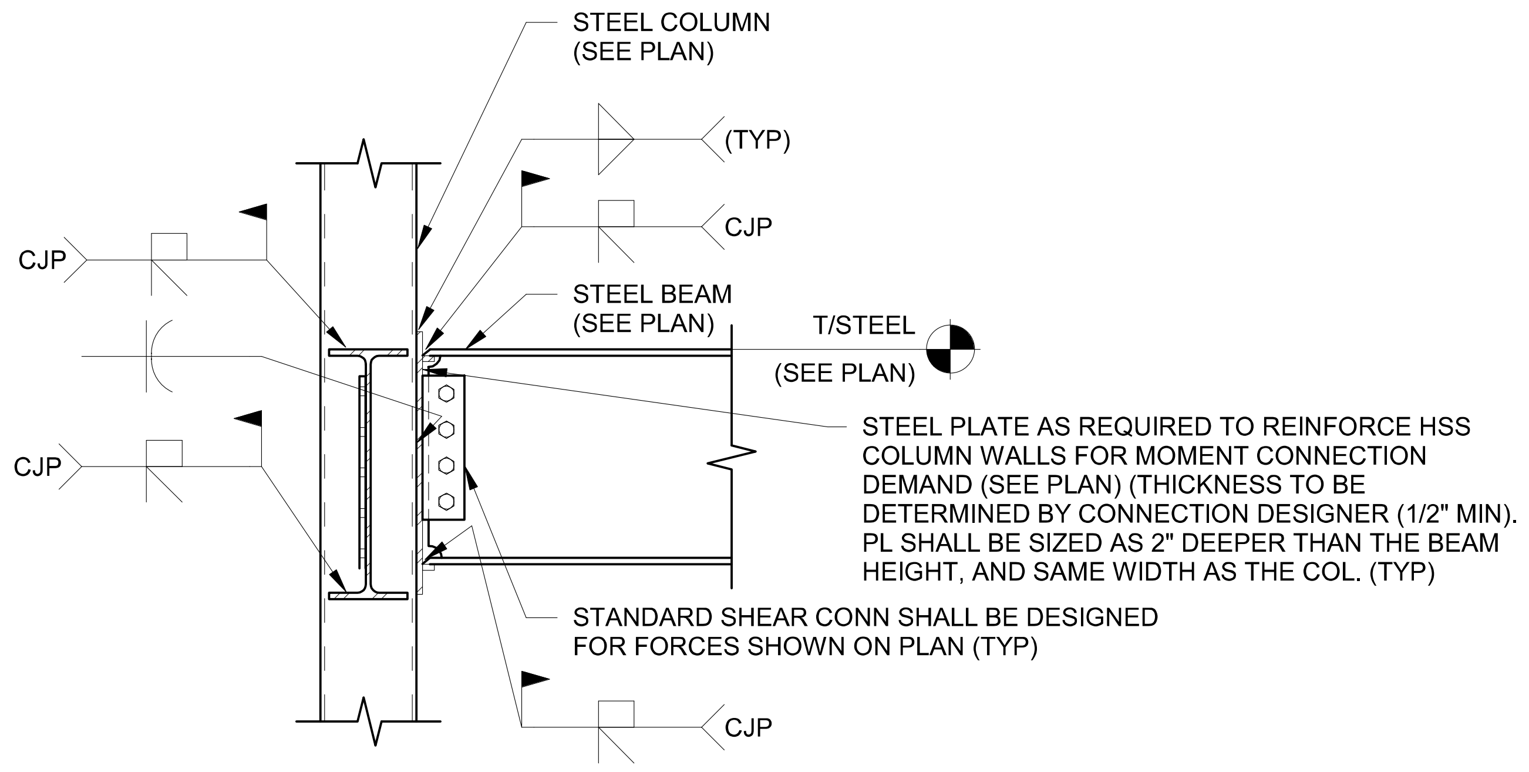
NOTES:

1. W1 SHALL BE 1" LESS THAN BEAM FLANGE WIDTH.
   W2 SHALL BE 1" GREATER THAN BEAM FLANGE WIDTH.
2. PLATE THICKNESS AND LENGTH DESIGNATED "#" SHALL BE DESIGNED BY CONNECTION ENGINEER FOR CONNECTION FORCES SHOWN ON PLAN.

TYPICAL BEAM THROUGH GIRDER MOMENT CONNECTIONS - SECTION

SCALE: 3/4" = 1'-0"

4
S501


STEEL COLUMN (SEE PLAN)
(TYP)
CJP
CJP
STEEL BEAM (SEE PLAN)
T/STEEL
(SEE PLAN)
CJP
STEEL PLATE AS REQUIRED TO REINFORCE HSS COLUMN WALLS FOR MOMENT CONNECTION DEMAND (SEE PLAN) (THICKNESS TO BE DETERMINED BY CONNECTION DESIGNER (1/2" MIN). PL SHALL BE SIZED AS 2" DEEPER THAN THE BEAM HEIGHT, AND SAME WIDTH AS THE COL. (TYP)
STANDARD SHEAR CONN SHALL BE DESIGNED FOR FORCES SHOWN ON PLAN (TYP)
CJP

NOTES:

1. FABRICATOR HAS THE OPTION TO USE ALTERNATE MOMENT CONNECTION. SUBMIT DETAIL FOR REVIEW AND ACCEPTANCE PRIOR TO SUBMITTING SHOP DRAWINGS. IF BOLTED FLANGE PLATES ARE PROPOSED, SUBMITTAL SHALL INCLUDE FLANGE EXTENSION PLATES OR ANGLES FOR DECK SUPPORT.
2. FABRICATOR SHOULD COORDINATE FIT UP PLATES AS REQUIRED.
3. FOR TOP OF COLUMN CONDITION, EXTEND COLUMN AS REQUIRED FOR CONNECTION (2" MAXIMUM) AND PROVIDE A 3/4" CAP PLATE.
4. JOISTS FRAMING PERPENDICULAR INTO THIS COLUMN SHALL BEAR ON A STIFFENED SEAT ANGLE.

TYPICAL WIDE FLANGE BEAM TO HSS COLUMN MOMENT CONNECTIONS - SECTION

SCALE: 3/4" = 1'-0"

5
S501

ALPHA BLDG SET 09-01-2026

Path: Autodesk Docs://NCWSA Admin Bldg_V25/0250683-NCWSA Office Addition-R25-STRUCT.rvt

Plot Date: 8/18/2026 2:16:21 PM

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Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

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No. SE000165
CHAD FORSTER

Chad A Forster
2026.08.18
17:23:43-04'00'

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA

NCWSA OFFICE ADDITION

REVISIONS

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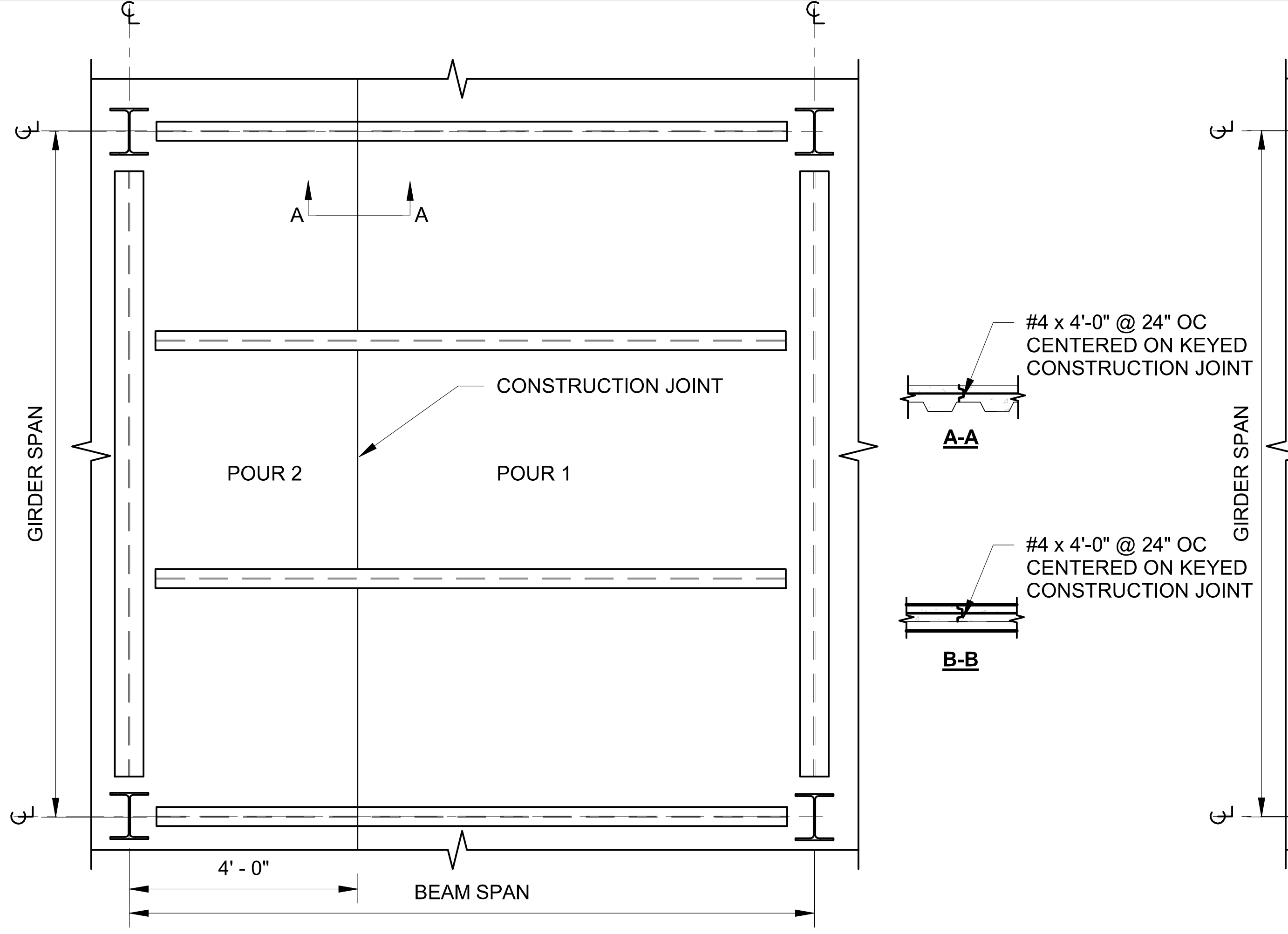
DESIGNED: ARB
DRAWN: ALK
CHECKED: CAF
CHECKED:
APPROVED: Approver
FILENAME

BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

STEEL FRAMING DETAILS

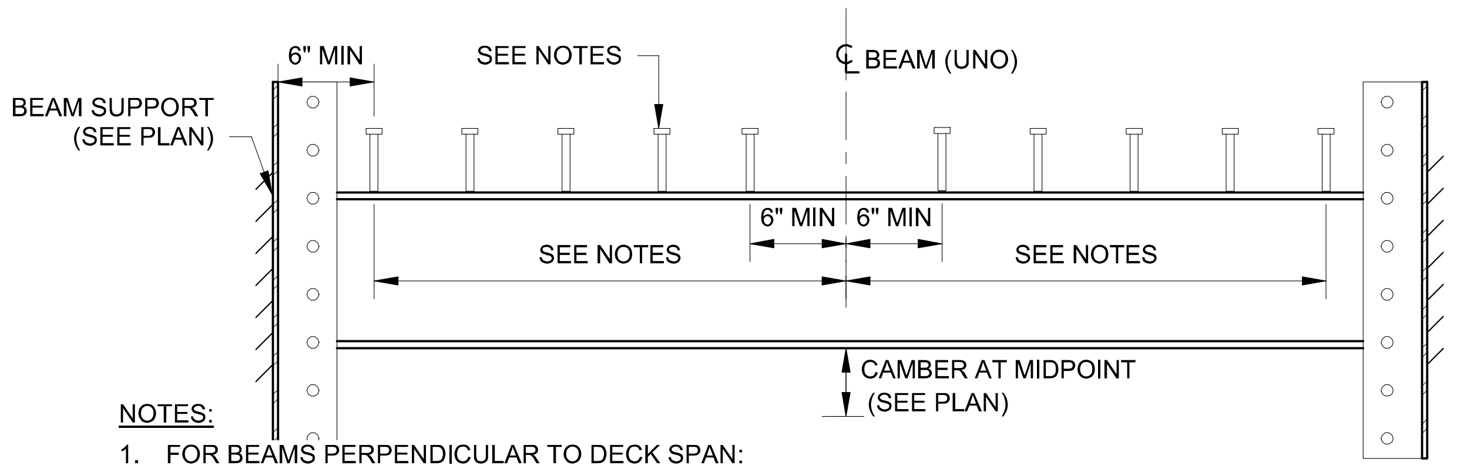
DRAWING NUMBER
S501



COMPOSITE FRAMING CONSTRUCTION JOINT LOCATION - PLAN

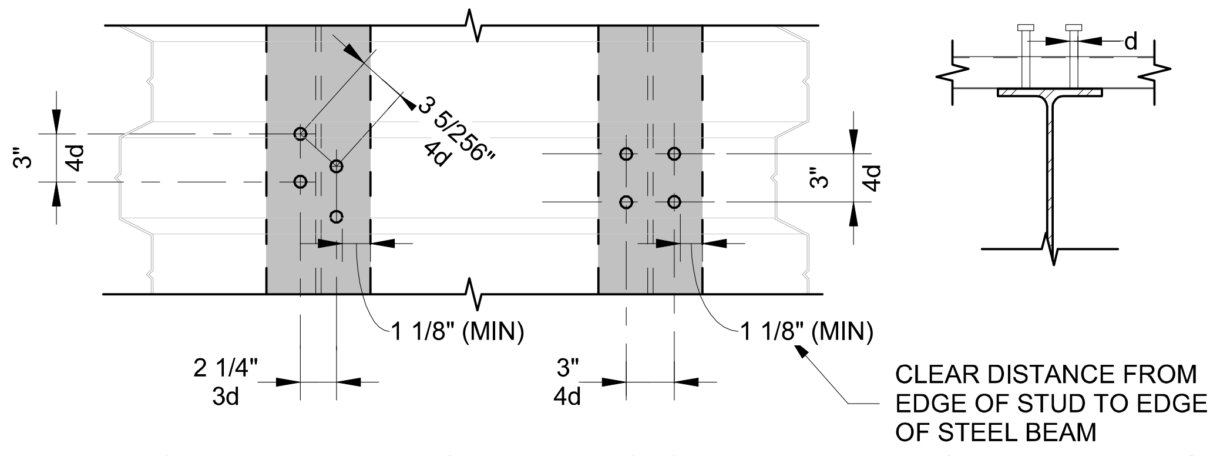
1
S511

SCALE: 3/8" = 1'-0"

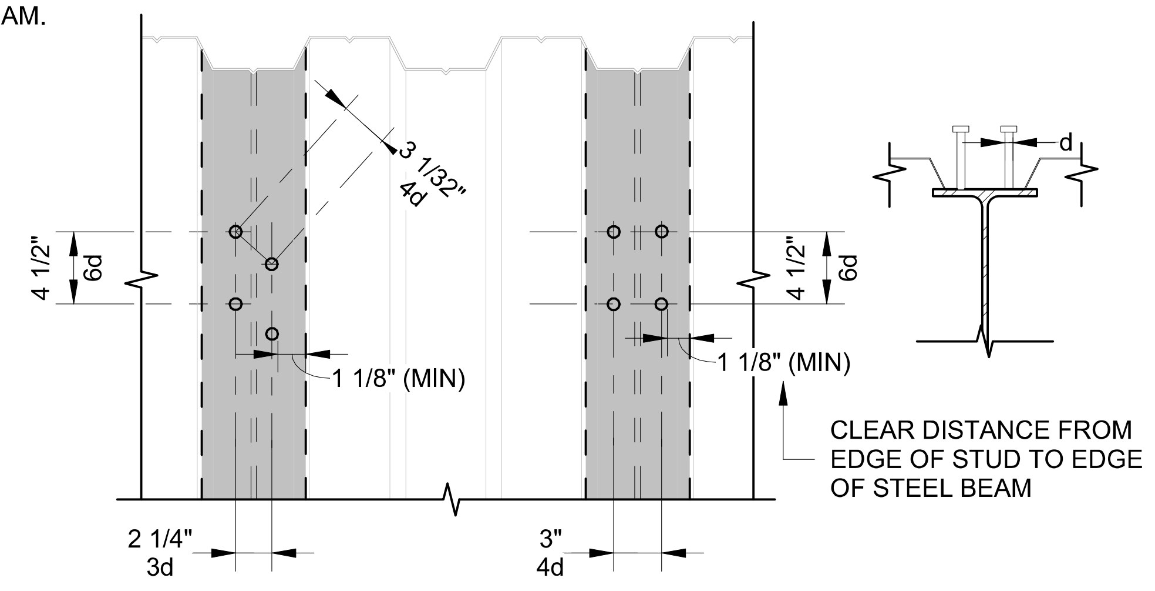


NOTES:

1. FOR BEAMS PERPENDICULAR TO DECK SPAN:
   a. EQUALLY SPACE ANCHORS IN ONE ROW ALONG BEAM AT A MAXIMUM SPACING OF 24" OC. NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF THERE ARE INSUFFICIENT ANCHORS TO SPACE AT 24" OC ALONG THE BEAM.
   b. MINIMUM ANCHOR SPACING ALONG BEAM IS 3" OC (4x STUD DIAMETER).
   c. IF THERE ARE ANCHORS REMAINING, ASSIGN ONE ANCHOR TO EVERY OTHER RIB WITHOUT AN ANCHOR STARTING AT EACH END OF THE BEAM.
   d. IF THERE ARE STILL ANCHORS REMAINING, ASSIGN ONE ANCHOR TO EACH RIB WITHOUT AN ANCHOR, AGAIN STARTING AT EACH END OF THE BEAM.
   e. IF NUMBER OF ANCHORS EXCEEDS NUMBER OF RIBS, ASSIGN ONE ANCHOR TO EACH RIB. ASSIGN SECOND ANCHOR TO EACH RIB STARTING AT EACH END OF BEAM UNTIL ALL ANCHORS ARE USED. SEE A-A FOR MINIMUM ANCHOR SPACE. EDGE OF ANCHORS SHALL BE LOCATED A MINIMUM OF 1 1/8" (1.5x STUD DIAMETER) FROM EDGE OF BEAM FLANGE (3" GAUGE). WELD ANCHORS AFTER ASSIGNING IS COMPLETE.
2. FOR BEAMS PARALLEL TO DECK SPAN:
   a. EQUALLY SPACE TOTAL QUANTITY OF ANCHORS IN ONE ROW ALONG BEAM. IF QUANTITY OF ANCHORS EXCEEDS THE MINIMUM SPACING IN NOTE b BELOW, INSTALL ANCHORS IN TWO ROWS ALONG BEAM.
   b. MINIMUM ANCHOR SPACING ALONG BEAM IS 4 1/2" OC (6x STUD DIAMETER).
   c. FOR ONE ROW OF ANCHORS, LOCATE ANCHORS OVER BEAM WEB. FOR TWO ROWS OF ANCHORS, SEE B-B FOR MINIMUM ANCHOR SPACING. EDGE OF ANCHORS SHALL BE LOCATED A MINIMUM OF 1 1/8' (1.5x STUD DIAMETER) FROM EDGE OF BEAM FLANGE. (3" GAUGE).
3. SEE COMPOSITE FLOOR SYSTEM NOTES AND FRAMING PLAN FOR HEADED STUD ANCHOR SIZE, LENGTH AND QUANTITY.



DECK PERPENDICULAR TO STEEL BEAM (DETAIL A-A)

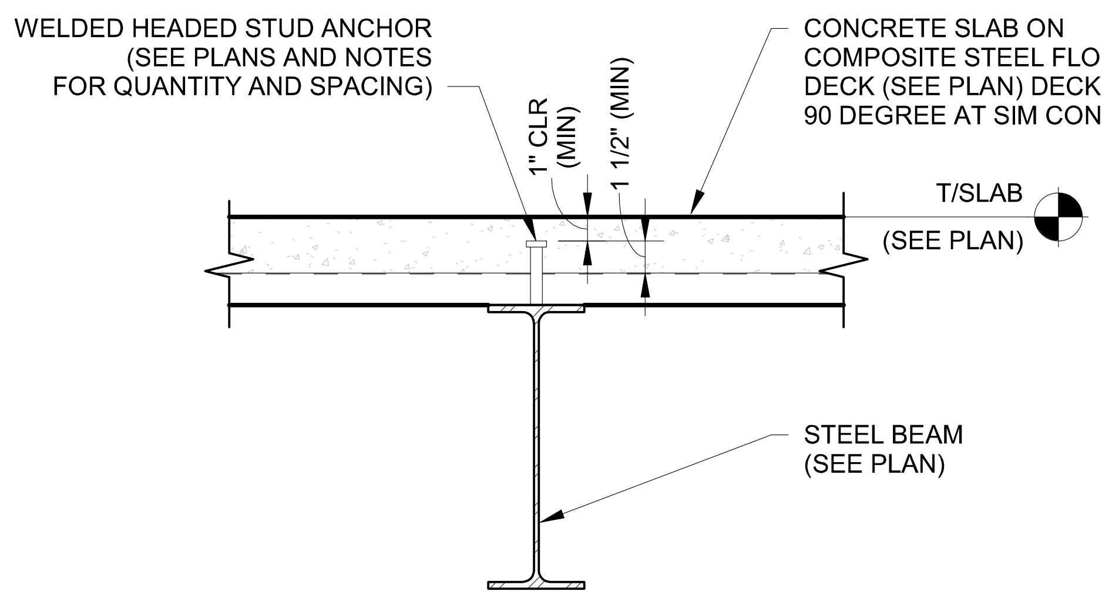


DECK PARALLEL TO STEEL BEAM (DETAIL B-B)

DISTRIBUTED HEADED STUD ANCHOR PLACEMENT

2
S511

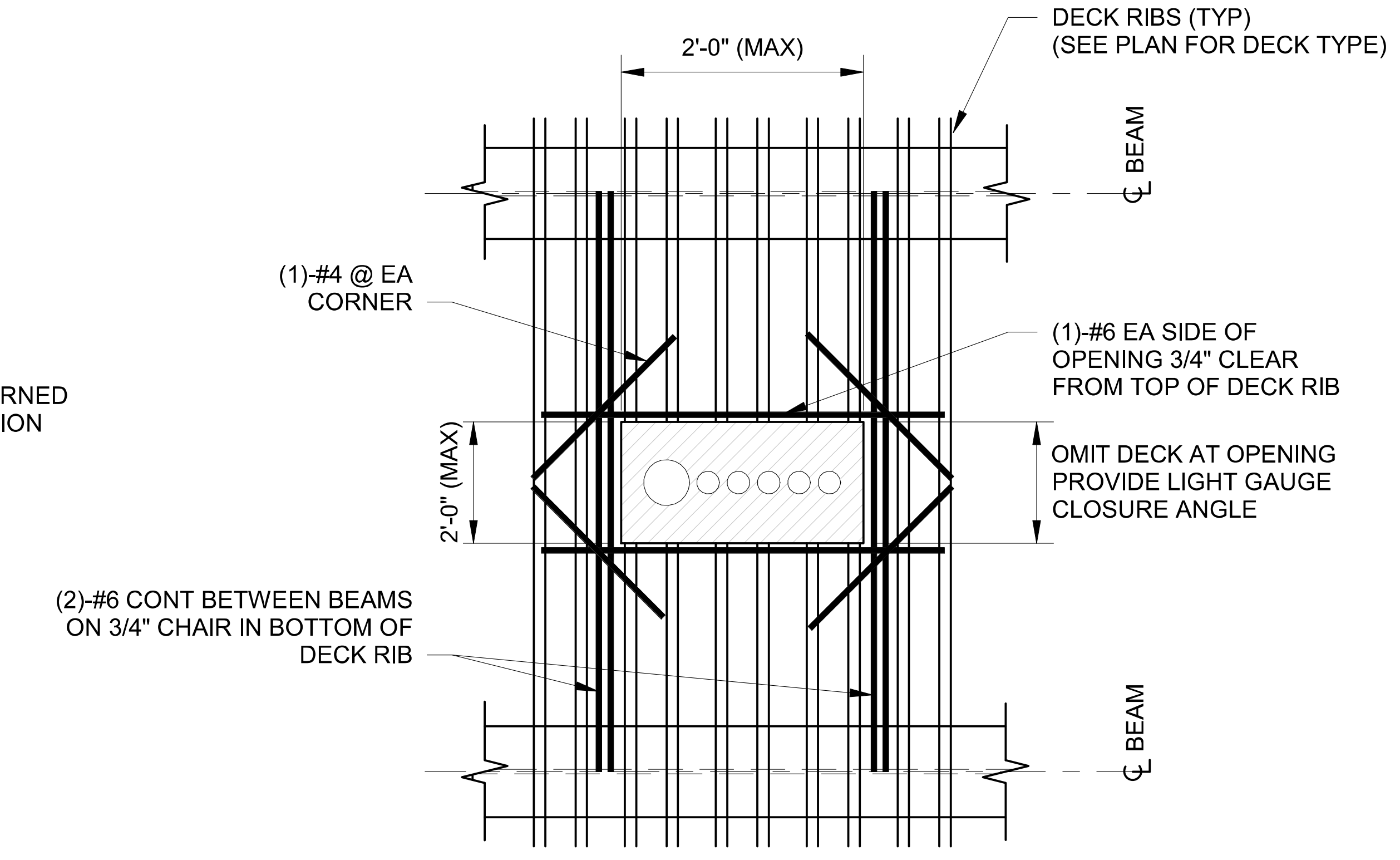
SCALE: 1" = 1'-0"


WELDED HEADED STUD ANCHOR (SEE PLANS AND NOTES FOR QUANTITY AND SPACING)
1" CLR (MIN)
1 1/2" (MIN)
CONCRETE SLAB ON COMPOSITE STEEL FLOOR DECK (SEE PLAN) DECK TURNED 90 DEGREE AT SIM CONDITION
T/SLAB
(SEE PLAN)
STEEL BEAM (SEE PLAN)

TYPICAL COMPOSITE STEEL BEAM - SECTION

3
S511

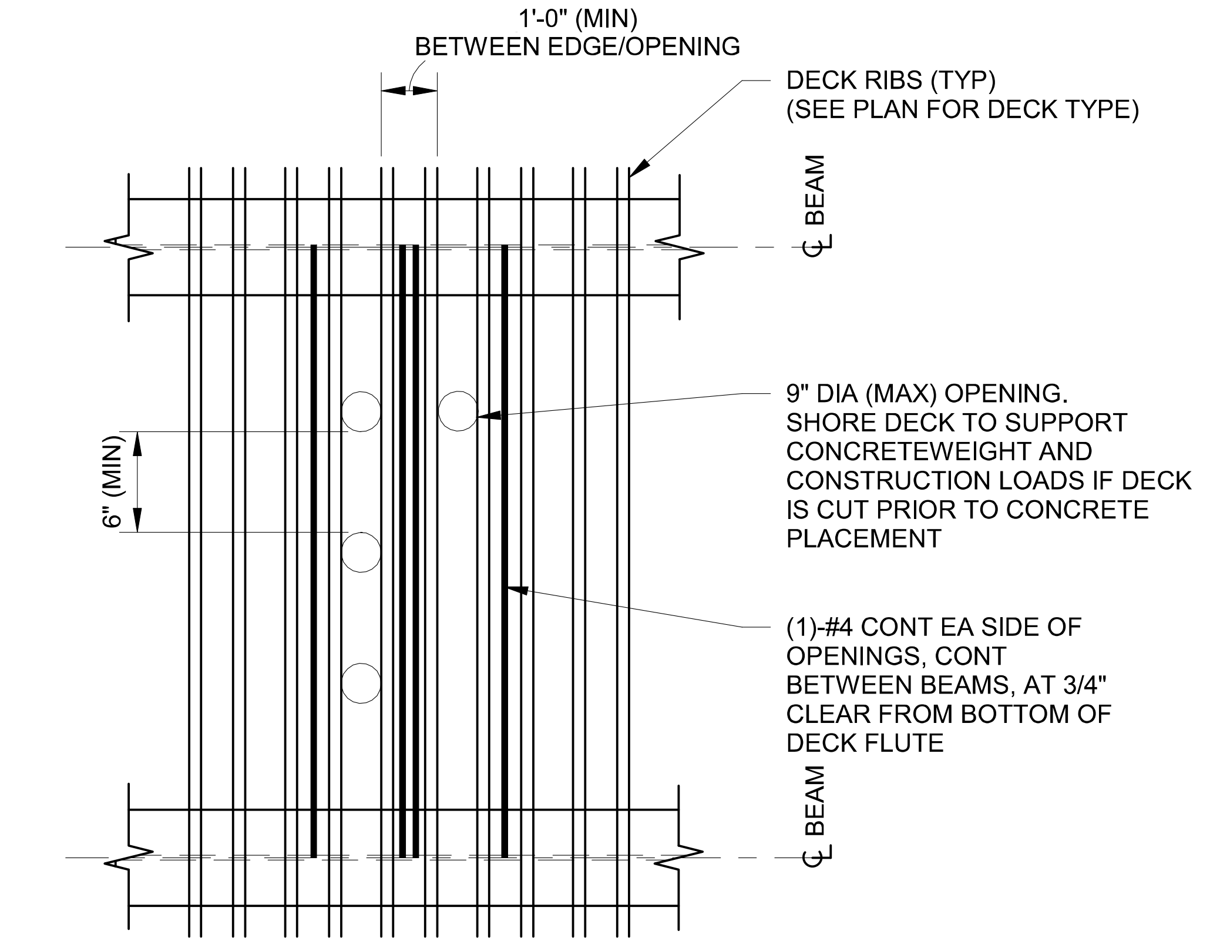
SCALE: 1" = 1'-0"


2'-0" (MAX)
DECK RIBS (TYP) (SEE PLAN FOR DECK TYPE)
℄ BEAM
(1)-#4 @ EA CORNER
(1)-#6 EA SIDE OF OPENING 3/4" CLEAR FROM TOP OF DECK RIB
2'-0" (MAX)
OMIT DECK AT OPENING PROVIDE LIGHT GAUGE CLOSURE ANGLE
(2)-#6 CONT BETWEEN BEAMS ON 3/4" CHAIR IN BOTTOM OF DECK RIB
℄ BEAM

MULTIPLE SLEEVES IN SINGLE OPENING

NOTES:

1. REINFORCING SHALL EXTEND 2'-0" MINIMUM PAST EACH SIDE OF OPENING.
2. ALL OPENINGS TO BE REVIEWED AND APPROVED BY EOR. ADDITIONAL FRAMING MAY BE REQUIRED.


1'-0" (MIN) BETWEEN EDGE/OPENING
DECK RIBS (TYP) (SEE PLAN FOR DECK TYPE)
℄ BEAM
6" (MIN)
9" DIA (MAX) OPENING. SHORE DECK TO SUPPORT CONCRETEWEIGHT AND CONSTRUCTION LOADS IF DECK IS CUT PRIOR TO CONCRETE PLACEMENT
(1)-#4 CONT EA SIDE OF OPENINGS, CONT BETWEEN BEAMS, AT 3/4" CLEAR FROM BOTTOM OF DECK FLUTE
℄ BEAM

ISOLATED OPENINGS

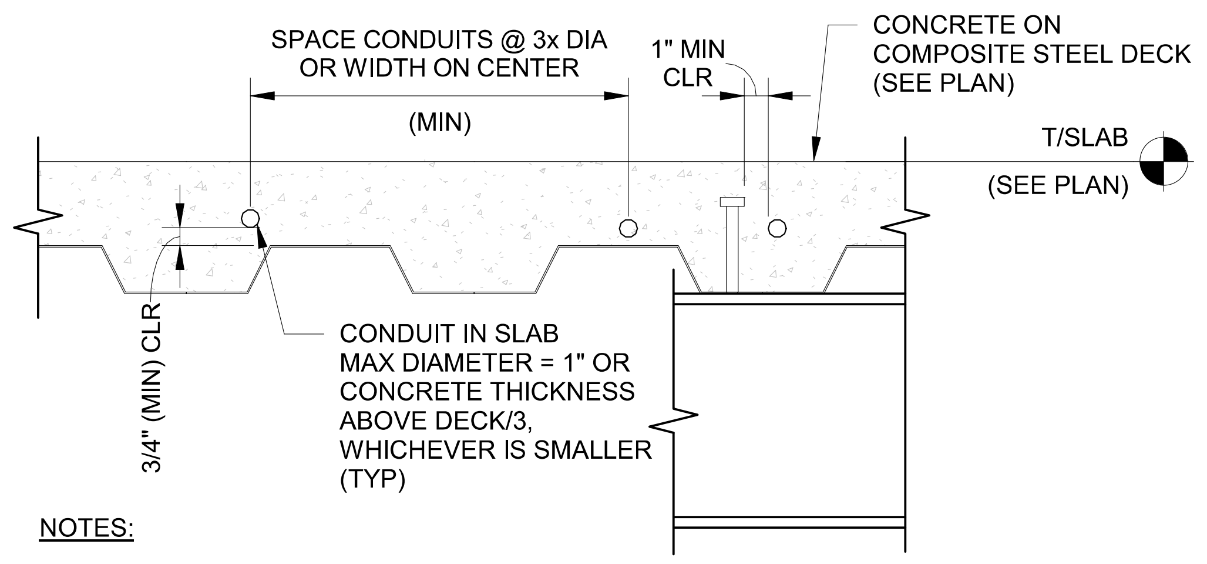
NOTES:

1. REINFORCING SHALL EXTEND 2'-0" MINIMUM PAST EACH SIDE OF OPENING.

COMPOSITE SLAB PIPE PENETRATION - PLAN

4
S511

SCALE: 1" = 1'-0"


SPACE CONDUITS @ 3x DIA OR WIDTH ON CENTER
(MIN)
1" MIN CLR
CONCRETE ON COMPOSITE STEEL DECK (SEE PLAN)
T/SLAB
(SEE PLAN)
3/4" (MIN) CLR
CONDUIT IN SLAB MAX DIAMETER = 1" OR CONCRETE THICKNESS ABOVE DECK/3, WHICHEVER IS SMALLER (TYP)

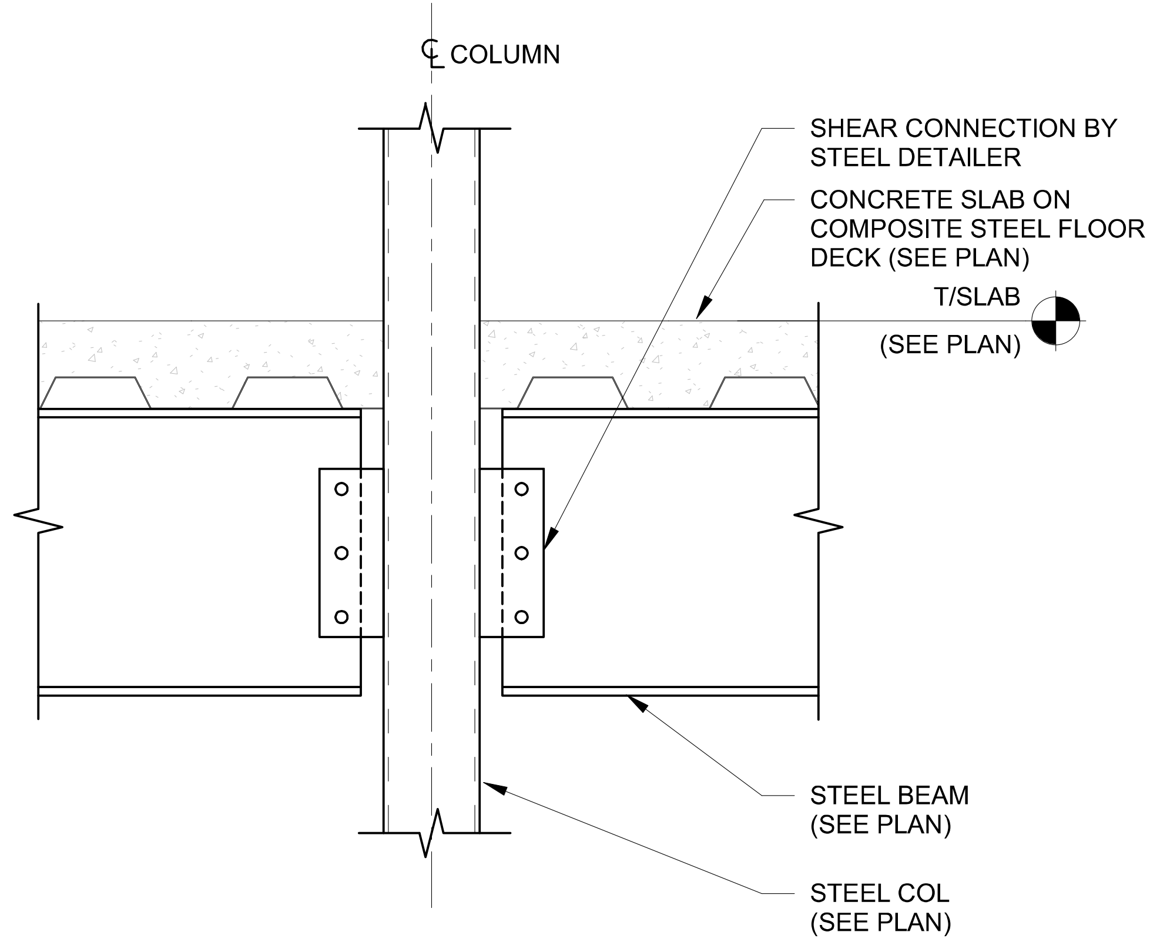
NOTES:

1. CONDUITS SHALL NOT BE ALLOWED TO CROSS OVER EACH OTHER.
2. CONDUITS ARE NOT PERMITTED IN SLABS IF THEY REDUCE THE SPECIFIED SLAB FIRE RATING. SEE ARCHITECTURAL FOR FIRE RATING REQUIREMENTS.
3. ALUMINUM CONDUIT IS NOT PERMITTED.
4. INCREASE MINIMUM CLEAR ABOVE CONDUIT TO 1 1/2" FOR EXTERIOR SLABS.

TYPICAL CONDUIT IN DECK SLAB - SECTION

5
S511

SCALE: 1 1/2" = 1'-0"


℄ COLUMN
SHEAR CONNECTION BY STEEL DETAILER
CONCRETE SLAB ON COMPOSITE STEEL FLOOR DECK (SEE PLAN)
T/SLAB
(SEE PLAN)
STEEL BEAM (SEE PLAN)
STEEL COL (SEE PLAN)

TYPICAL COMPOSITE STEEL BEAM TO STEEL COLUMN CONNECTION - SECTION

6
S511

SCALE: 1" = 1'-0"

ALPHA BLDG SET 09-01-2026

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PES STRUCTURAL ENGINEERS

ADDRESS 1852 Century Place NE, Suite 201, Atlanta Georgia 30345
PHONE 770.457.5923 **WEB** www.pesengineers.com
PES PROJECT NUMBER: 0250683
PES GEORGIA LICENSE NUMBER: PEF000799
EXPIRATION DATE: 6/30/2028

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

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No. SE000165
CHAD FORSTER
Chad A Forster
2026.08.18
17:23:43-04'00'

CONSTRUCTION DOCUMENTS
07/01/2026

NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: ARB
DRAWN: ALK
CHECKED: CAF
CHECKED:
APPROVED: Approver

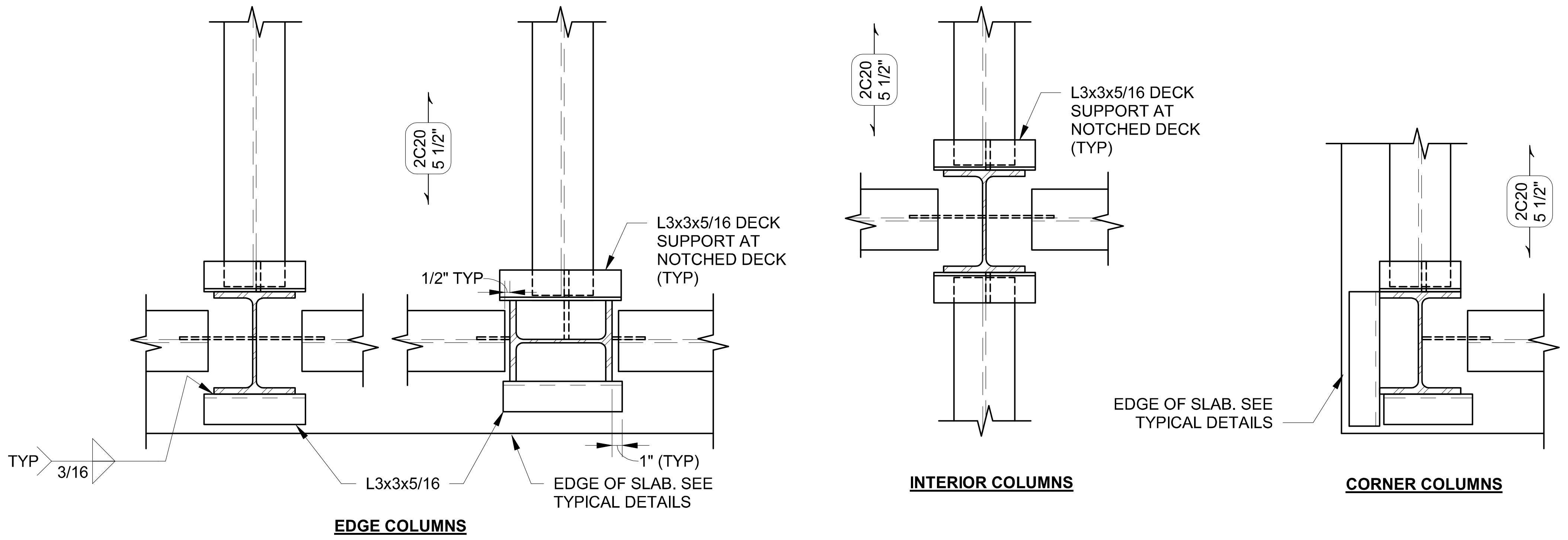
FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

COMPOSITE STEEL FRAMING DETAILS

DRAWING NUMBER
S511


2C20
5 1/2"
1/2" TYP
L3x3x5/16 DECK SUPPORT AT NOTCHED DECK (TYP)
TYP
3/16
L3x3x5/16
EDGE OF SLAB. SEE TYPICAL DETAILS
1" (TYP)
EDGE COLUMNS
INTERIOR COLUMNS
EDGE OF SLAB. SEE TYPICAL DETAILS
CORNER COLUMNS

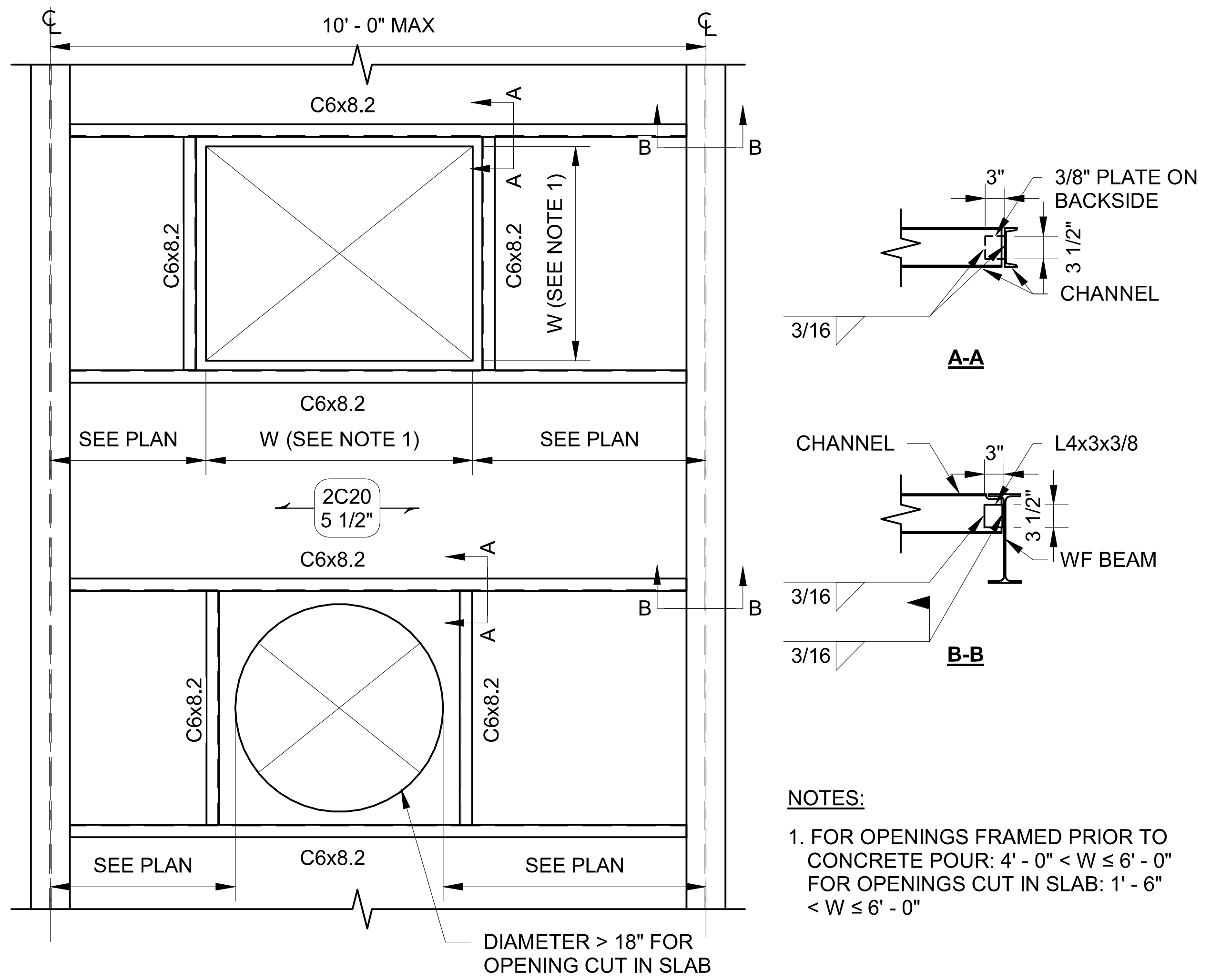
NOTES:

1. DETAILS APPLY AT WIDE FLANGE AND HSS COLUMNS
2. ATTACH DECK TO SUPPORT ANGLES (TYP)

DECK SUPPORT ANGLE AT COLUMN - PLAN

1 S512

SCALE: 1" = 1'-0"



NOTES:

1. FOR OPENINGS FRAMED PRIOR TO CONCRETE POUR: 4' - 0" < W ≤ 6' - 0" FOR OPENINGS CUT IN SLAB: 1' - 6" < W ≤ 6' - 0"

TYPICAL FRAMED OPENING IN COMPOSITE SLAB - PLAN

2 S512

SCALE: 1/2" = 1'-0"

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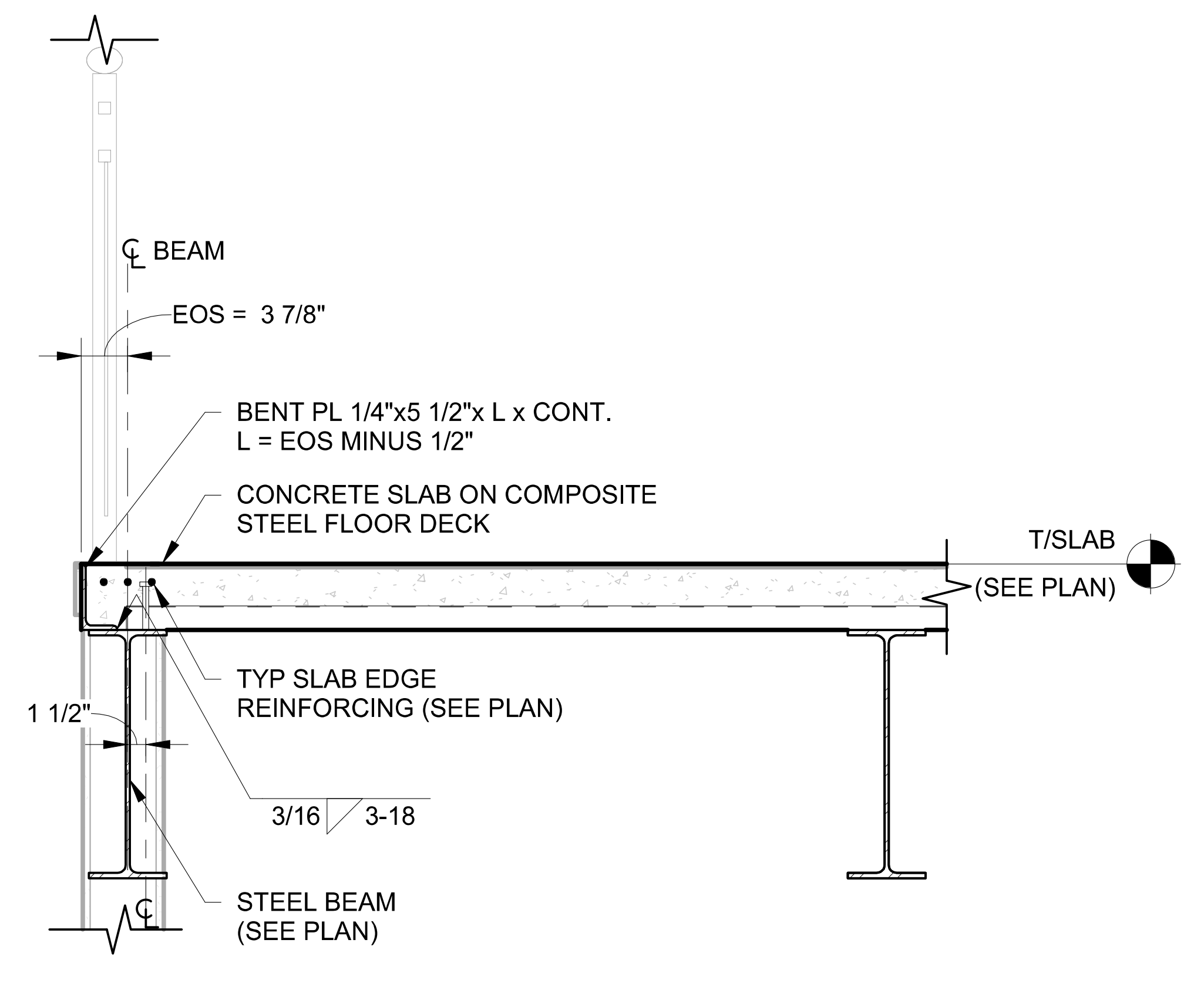
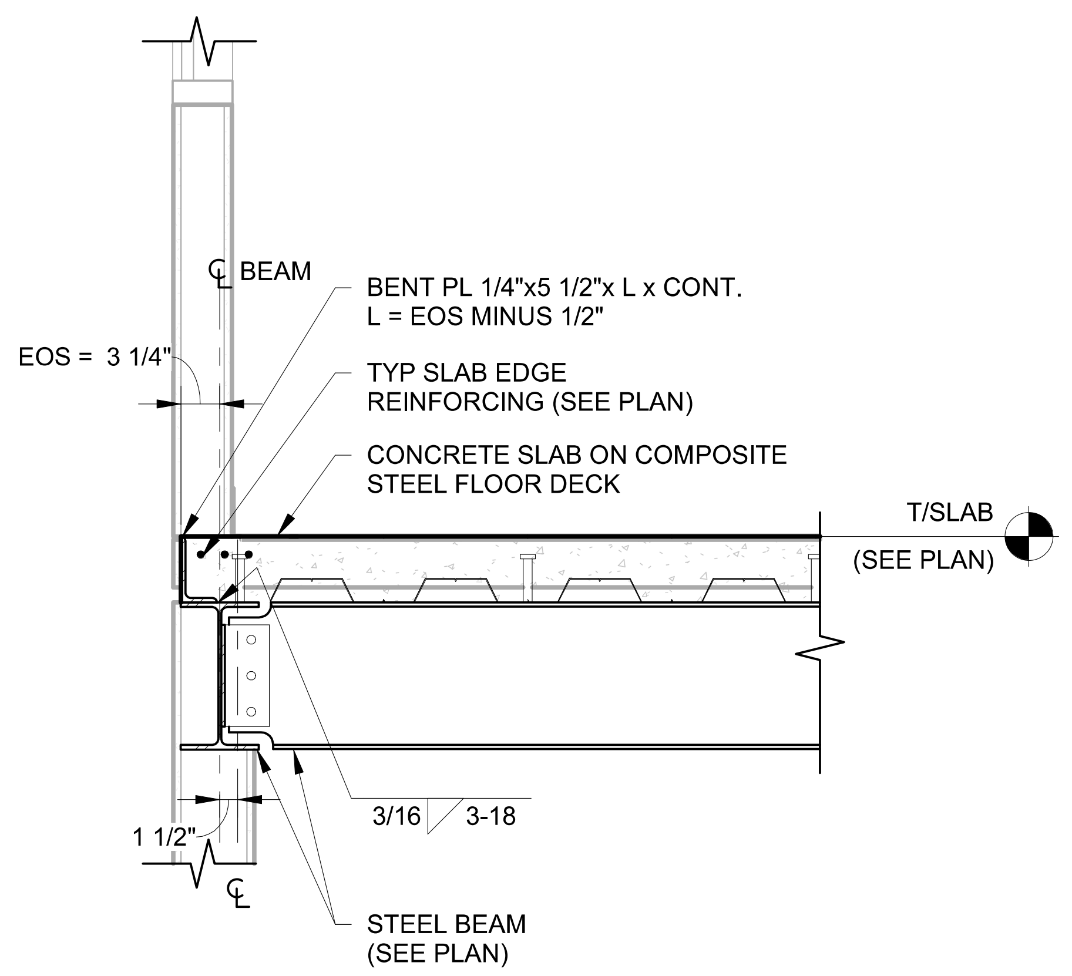

℄ BEAM
EOS = 3 7/8"
BENT PL 1/4"x5 1/2"x L x CONT.
L = EOS MINUS 1/2"
CONCRETE SLAB ON COMPOSITE STEEL FLOOR DECK
T/SLAB
(SEE PLAN)
TYP SLAB EDGE REINFORCING (SEE PLAN)
1 1/2"
3/16
3-18
℄
STEEL BEAM
(SEE PLAN)

COMPOSITE STEEL FRAMING AT INTERIOR SLAB EDGE - SECTION

3 S512

SCALE: 3/4" = 1'-0"


℄ BEAM
EOS = 3 1/4"
BENT PL 1/4"x5 1/2"x L x CONT.
L = EOS MINUS 1/2"
TYP SLAB EDGE REINFORCING (SEE PLAN)
CONCRETE SLAB ON COMPOSITE STEEL FLOOR DECK
T/SLAB
(SEE PLAN)
1 1/2"
℄
3/16
3-18
STEEL BEAM
(SEE PLAN)

COMPOSITE STEEL FRAMING AT INTERIOR SLAB EDGE - SECTION

4 S512

SCALE: 3/4" = 1'-0"

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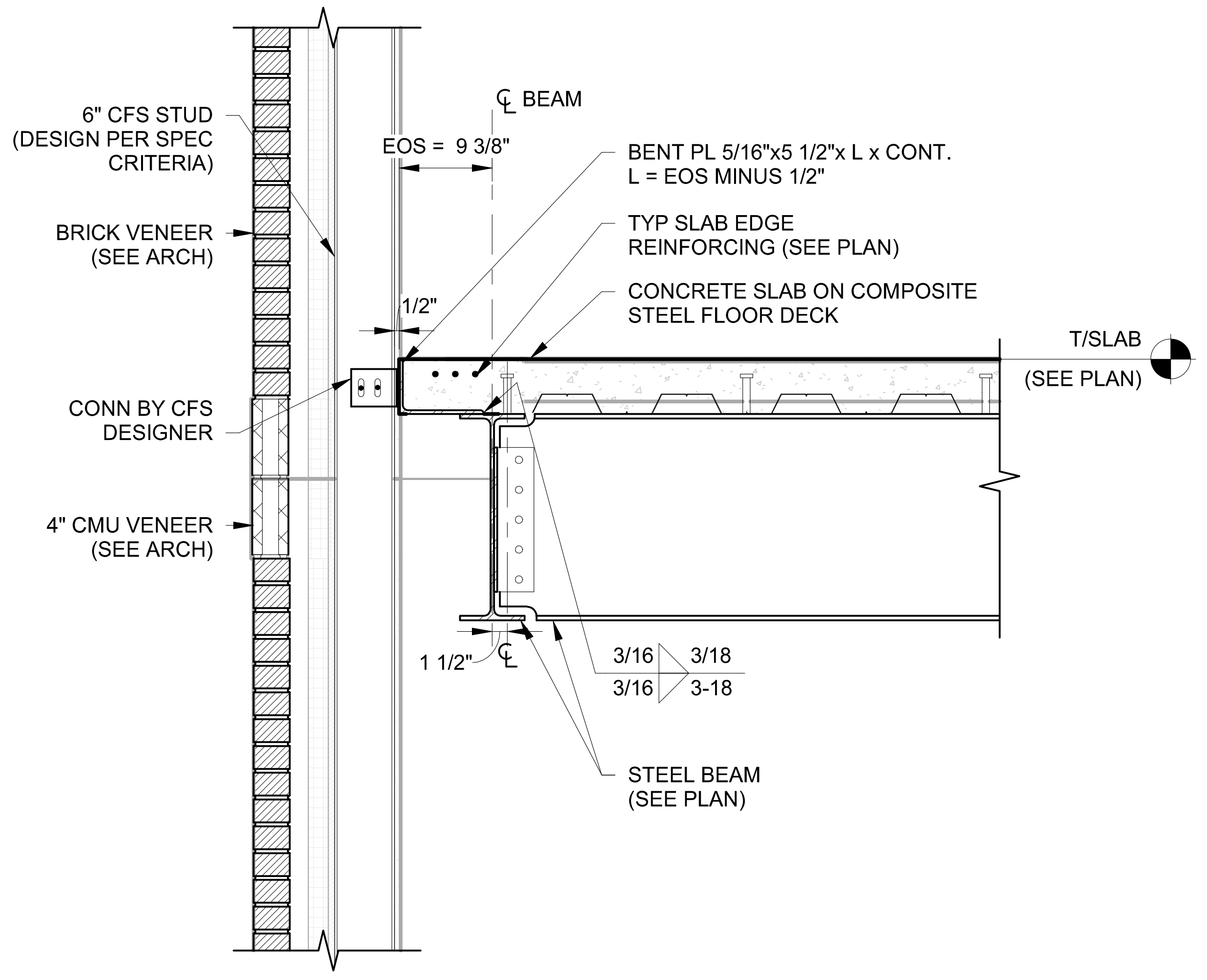
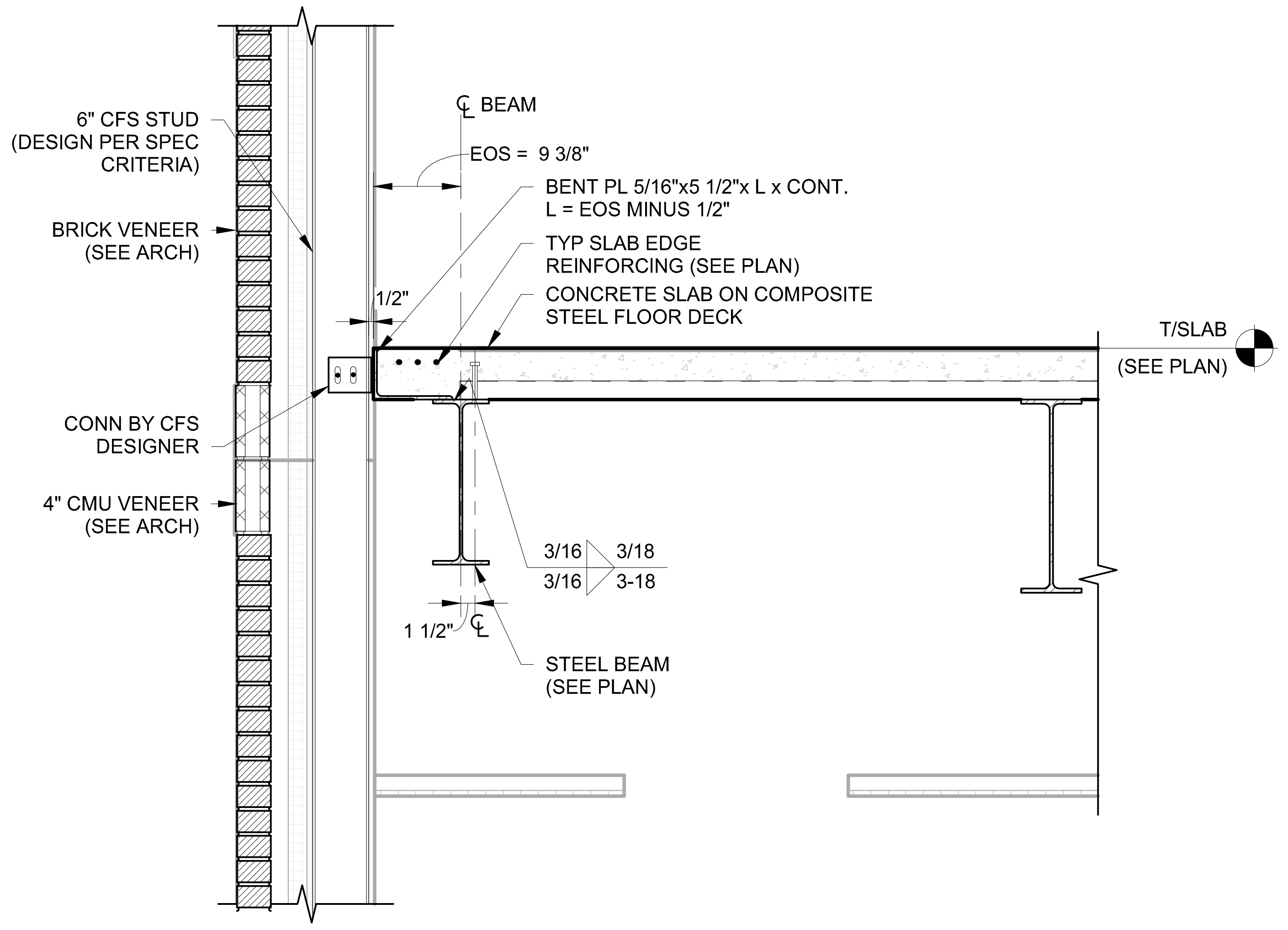


STEEL COMPOSITE FLOOR FRAMING AT EXTERIOR WALL - SECTION

1
S513

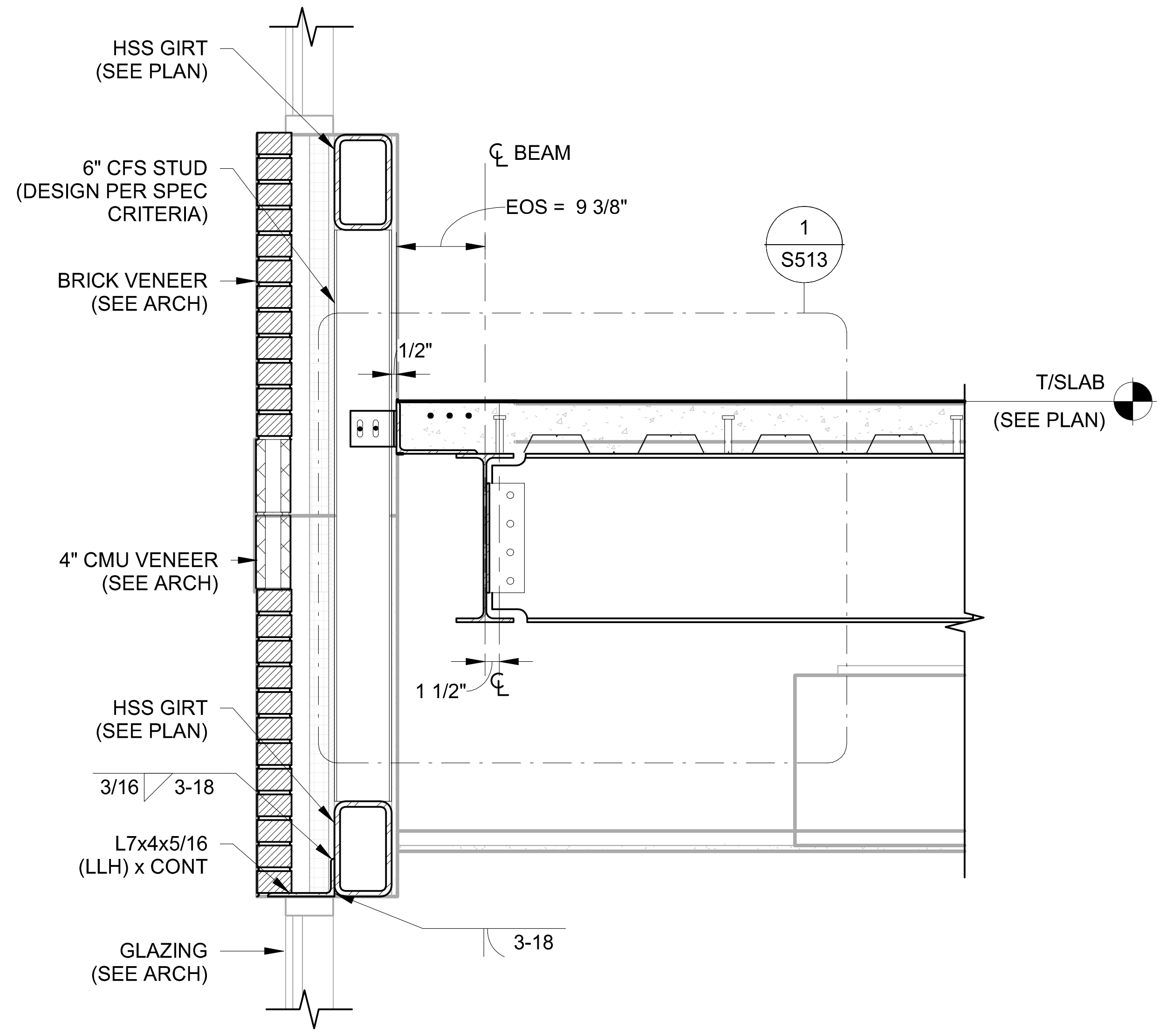
SCALE: 3/4" = 1'-0"



STEEL COMPOSITE FLOOR FRAMING AT EXTERIOR WALL - SECTION

2
S513

SCALE: 3/4" = 1'-0"



STEEL COMPOSITE FLOOR FRAMING AT EXTERIOR WALL WITH HSS GIRTS - SECTION

3
S513

SCALE: 3/4" = 1'-0"

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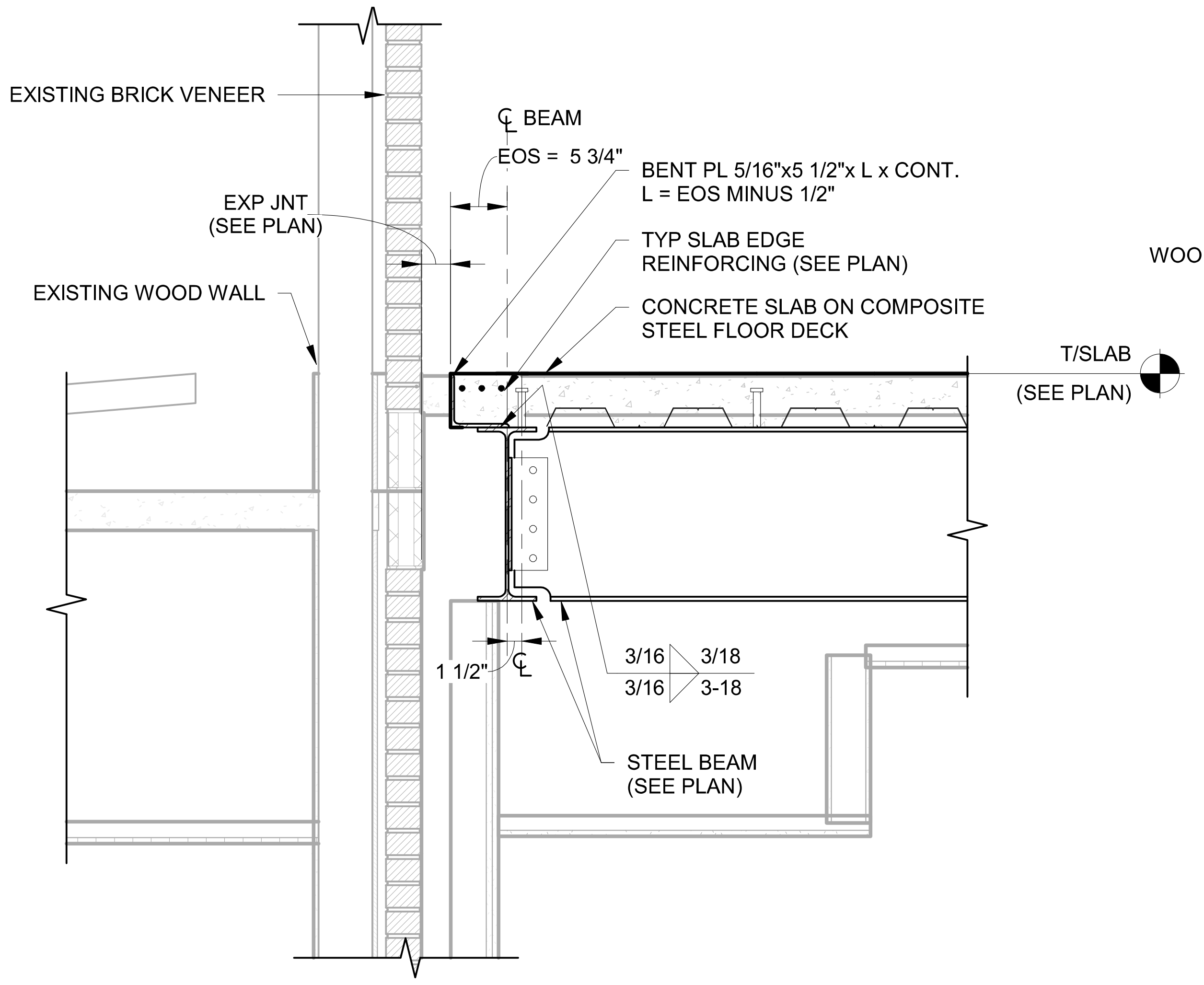
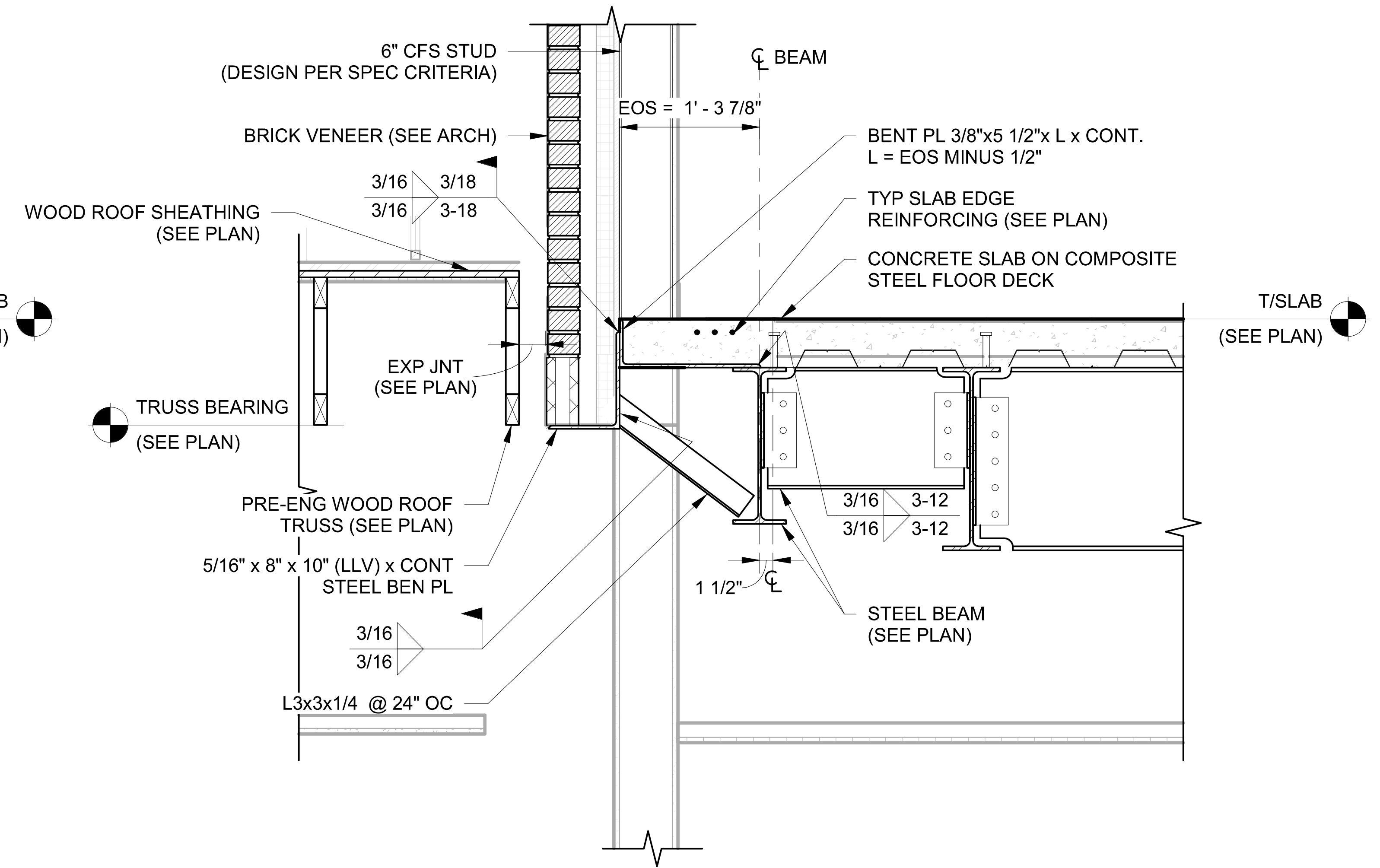


STEEL COMPOSITE FLOOR FRAMING AT EXPANSION JOINT - SECTION

4
S513

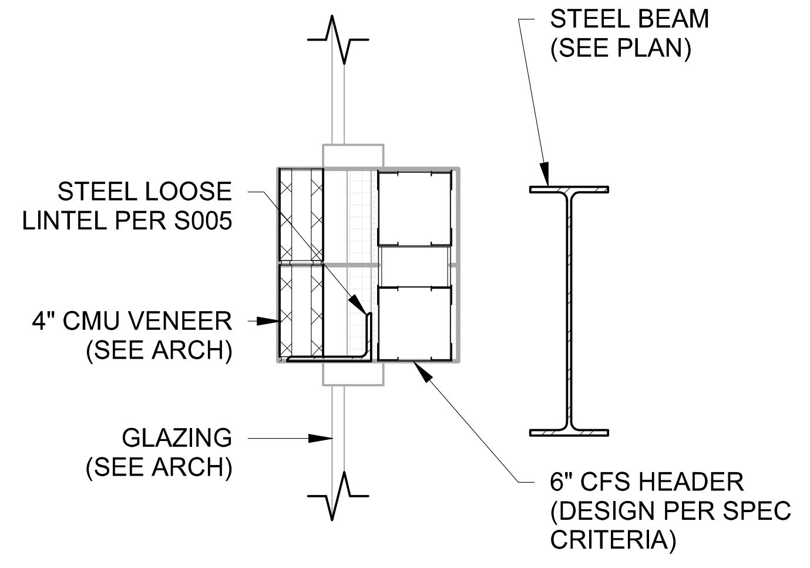
SCALE: 3/4" = 1'-0"



STEEL COMPOSITE FLOOR FRAMING AT EXPANSION JOINT AT WOOD ADDITION - SECTION

5
S513

SCALE: 3/4" = 1'-0"



EXTERIOR CMU VENEER SUPPORT AT FLOOR OPENING - SECTION

6
S513

SCALE: 3/4" = 1'-0"

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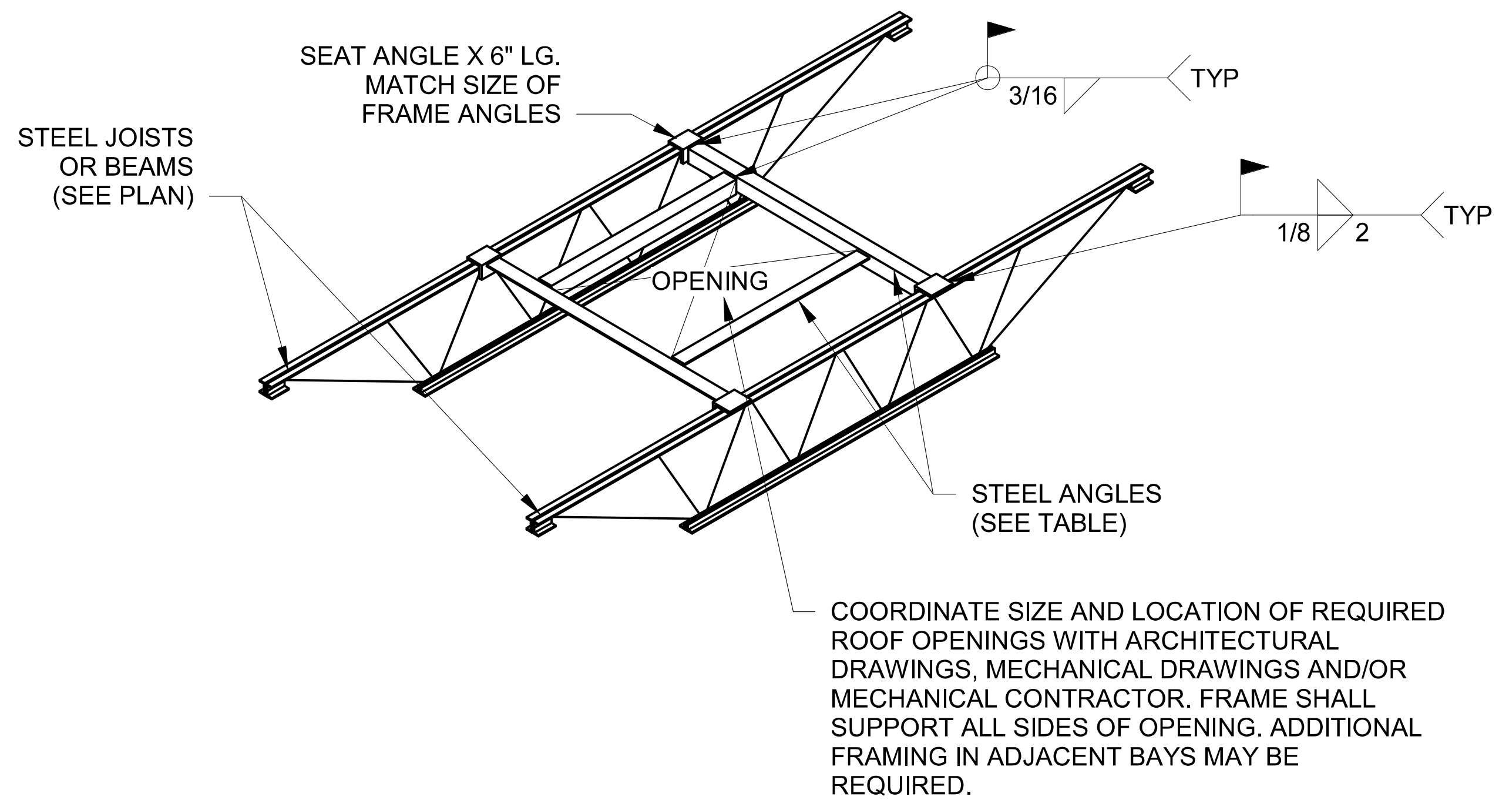

SEAT ANGLE X 6" LG.
MATCH SIZE OF
FRAME ANGLES
STEEL JOISTS
OR BEAMS
(SEE PLAN)
3/16
TYP
1/8
2
TYP
OPENING
STEEL ANGLES
(SEE TABLE)
COORDINATE SIZE AND LOCATION OF REQUIRED ROOF OPENINGS WITH ARCHITECTURAL DRAWINGS, MECHANICAL DRAWINGS AND/OR MECHANICAL CONTRACTOR. FRAME SHALL SUPPORT ALL SIDES OF OPENING. ADDITIONAL FRAMING IN ADJACENT BAYS MAY BE REQUIRED.

SPAN	ANGLE SIZE
UP TO 4'-0"	L3X3X3/16
4'-1" TO 6'-0"	L4X3X1/4 (LLV)
6'-1" TO 8'-0"	L5X3X1/4 (LLV)
8'-1" TO 10'-0"	L6X4X5/16 (LLV)

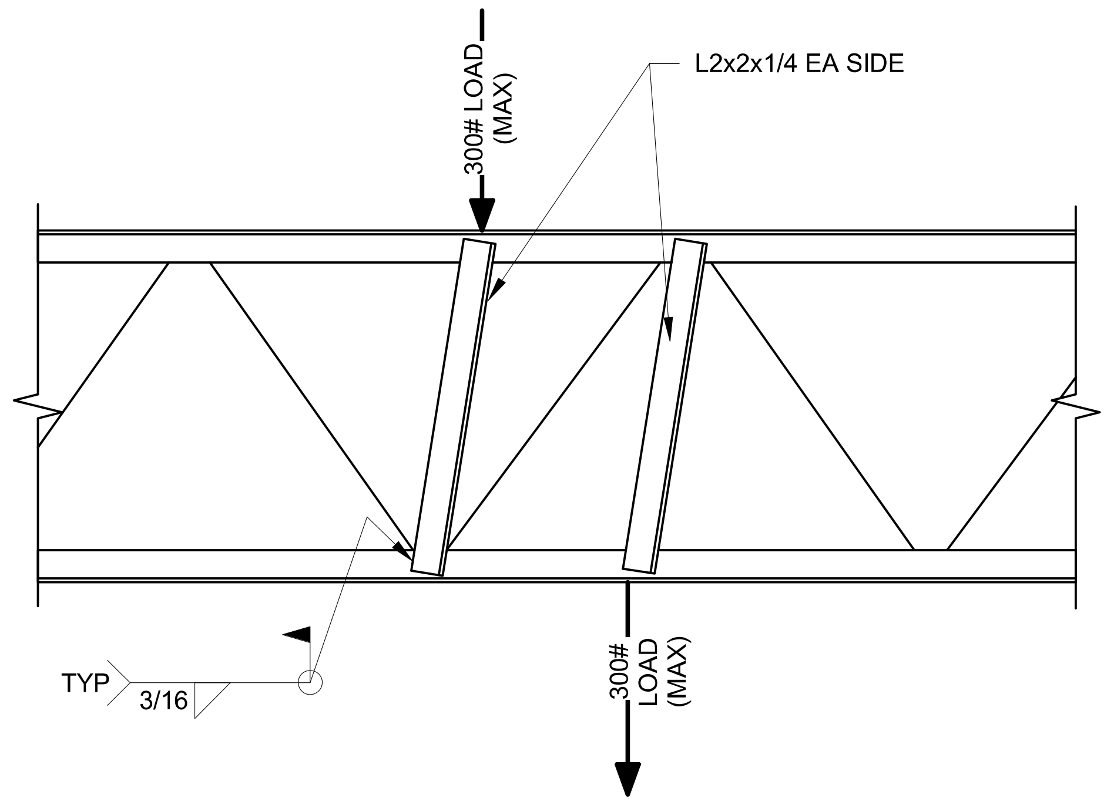
NOTES:

1. PROVIDE FRAMING AT ROOF DRAINS.
2. WELD/CONNECT DECK TO ALL FRAMING AT 6" OC MAXIMUM SPACING. COORDINATE WITH ENGINEER FOR SPECIAL DETAILS REQUIRED TO CONNECT ANGLES TO EXISTING DECK IN AN INSTALLATION OF NEW UNIT ON EXISTING ROOF FRAMING.
3. WHEN JOIST BRIDGING CONFLICTS WITH ROOF OPENING FRAMES, STOP BRIDGING AT EACH SIDE OF OPENING, PROVIDE CROSS BRIDGING AT LAST BRIDGING SPACE EACH SIDE OF OPENING AND CONNECT ENDS OF BRIDGING TO OPENING FRAMING. ADD ADDITIONAL BRIDGING AND CROSS BRIDGING ON EACH SIDE OF OPENING ON EACH SIDE OF CUT BRIDGING AREA WITH BRIDGING EXTENDED ONE BAY BEYOND EACH SIDE OF OPENING.
4. ANCHOR EQUIPMENT AND CURB TO MISCELLANEOUS FRAMING SHOWN AS REQUIRED FOR WIND AND/OR SEISMIC FORCES. COORDINATE WITH EQUIPMENT/CURB MANUFACTURER (CONNECTION DESIGN NOT BY PES STRUCTURAL ENGINEERS).
5. THIS DETAIL IS NOT APPLICABLE TO ROOFTOP EQUIPMENT CURBS. REFER TO TYPICAL EQUIPMENT CURB SUPPORT DETAIL FOR CURB SUPPORT FRAMING.

TYPICAL ROOF OPENING DECK SUPPORT FRAMING - ISOMETRIC

1
S521

SCALE: 3/8" = 1'-0"



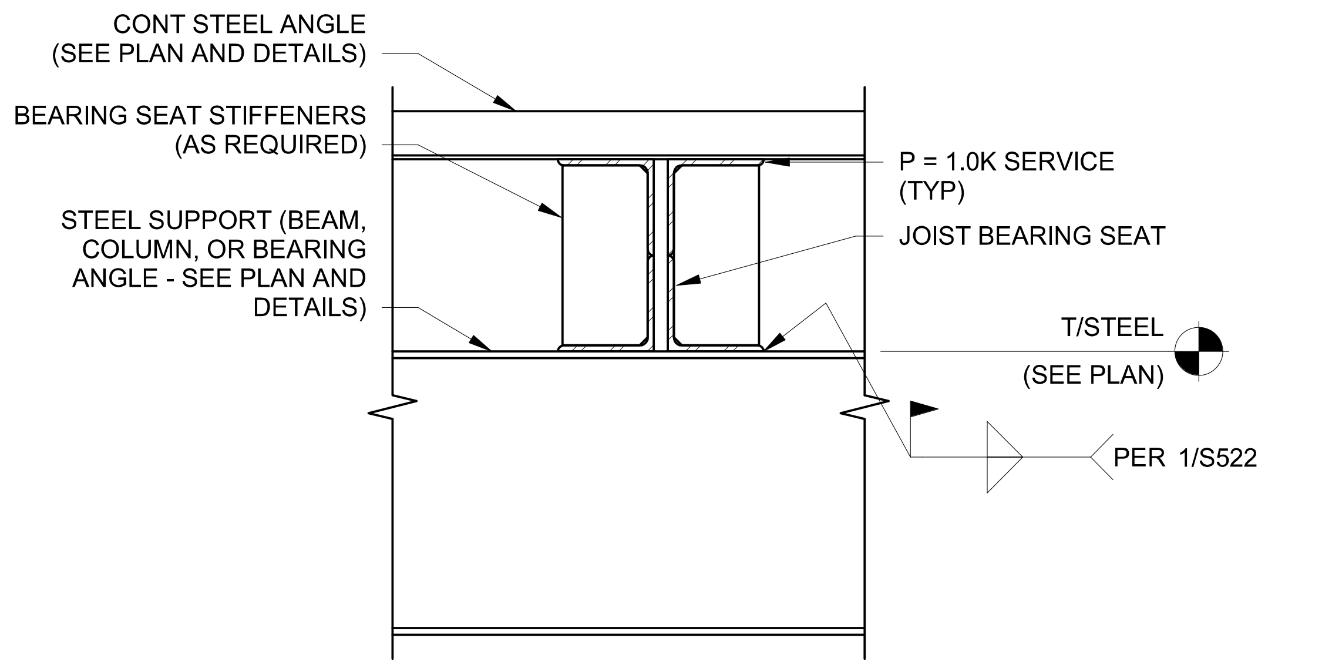
NOTES:

1. STRUT IS NOT REQUIRED WHERE THE DISTANCE FROM PANEL POINT DOES NOT EXCEED 3" FOR K-JOISTS.
2. STRUT IS NOT REQUIRED WHERE NOMINAL CONCENTRATED LOAD DOES NOT EXCEED 100 LBS AND THE ATTACHMENTS ARE CONCENTRIC TO THE CHORD.

TYPICAL JOIST CHORD SUPPORT - SECTION

2
S521

SCALE: 1" = 1'-0"



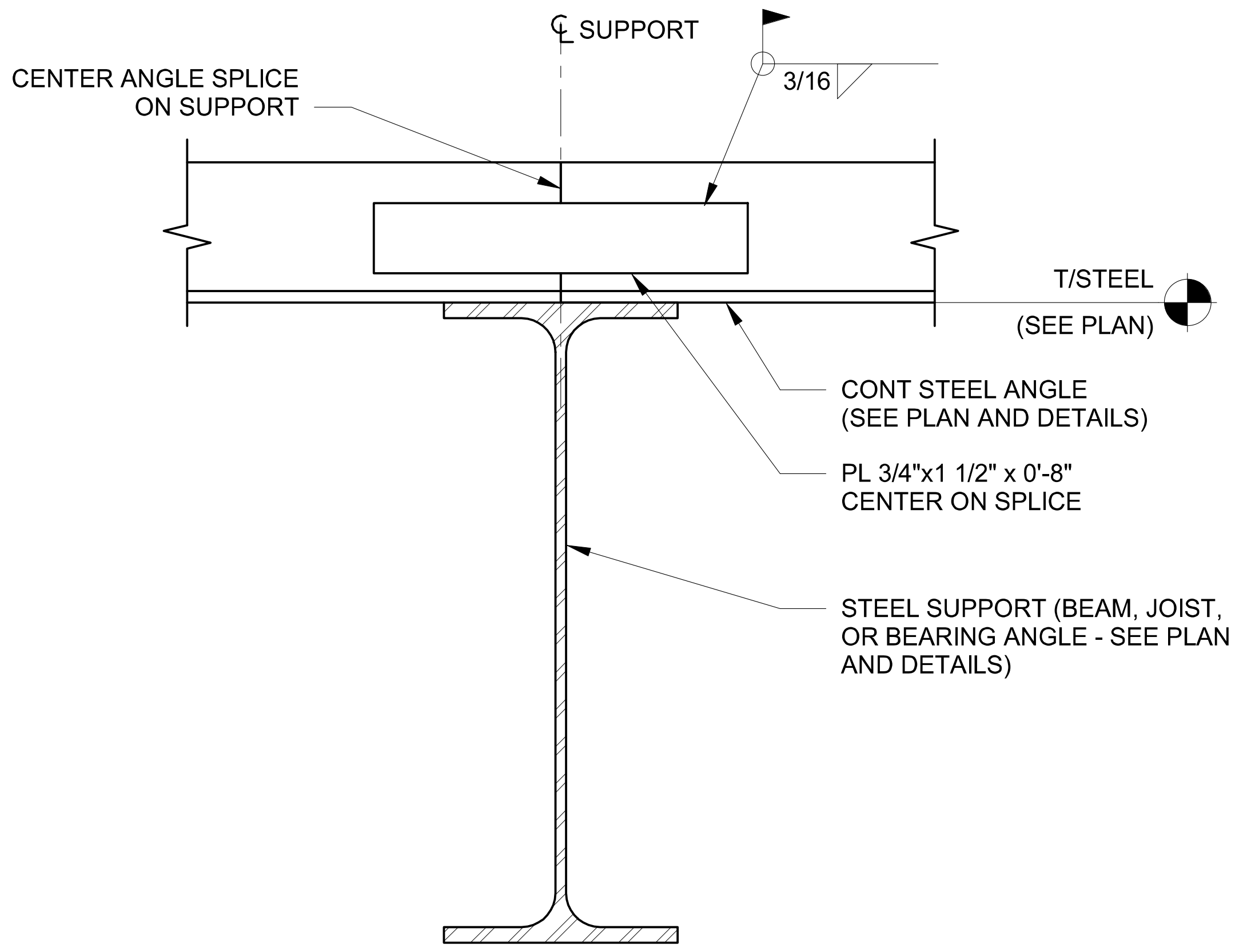
NOTES:

1. JOIST DESIGN ENGINEER SHALL DESIGN BEARING SEAT FOR LATERAL LOAD INDICATED.
2. FABRICATOR SHALL INSTALL BEARING SEAT STIFFENERS IF REQUIRED BY DESIGN.

TYPICAL JOIST ROLLOVER DESIGN FORCE - SECTION

3
S521

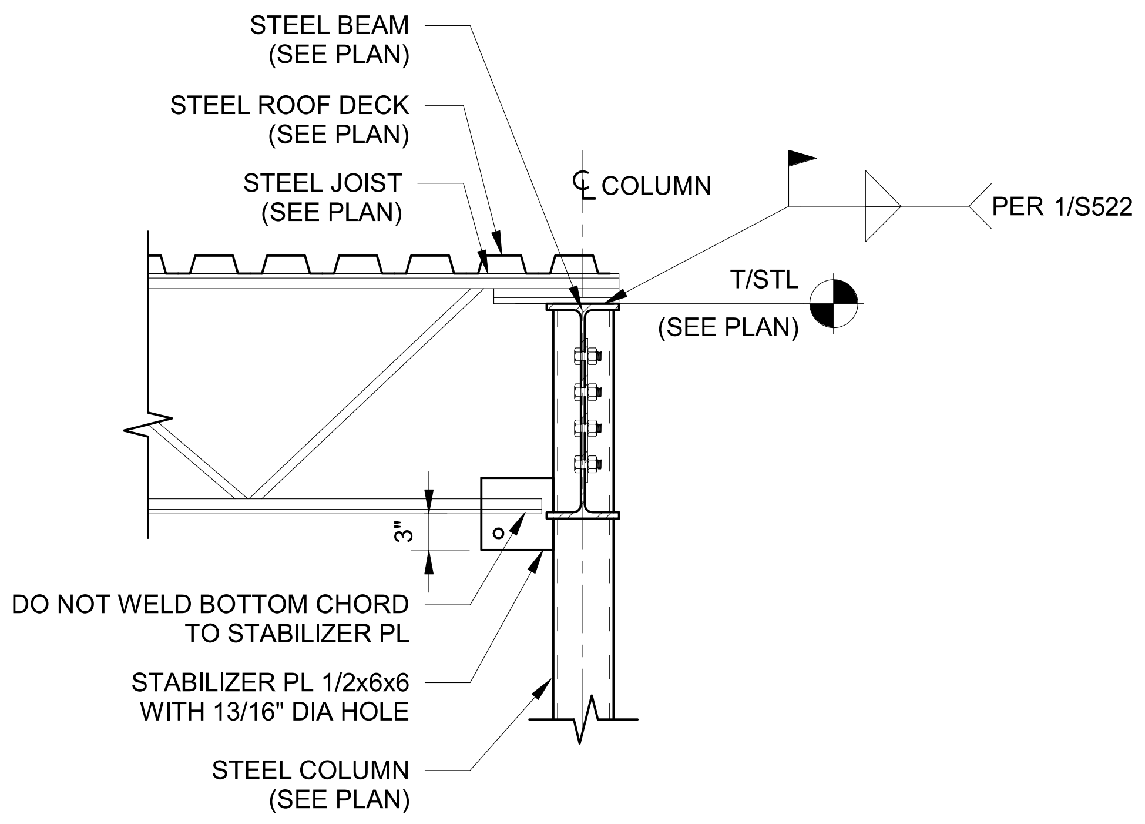
SCALE: 1" = 1'-0"



TYPICAL CONTINUOUS ROOF ANGLE SPLICE - SECTION

4
S521

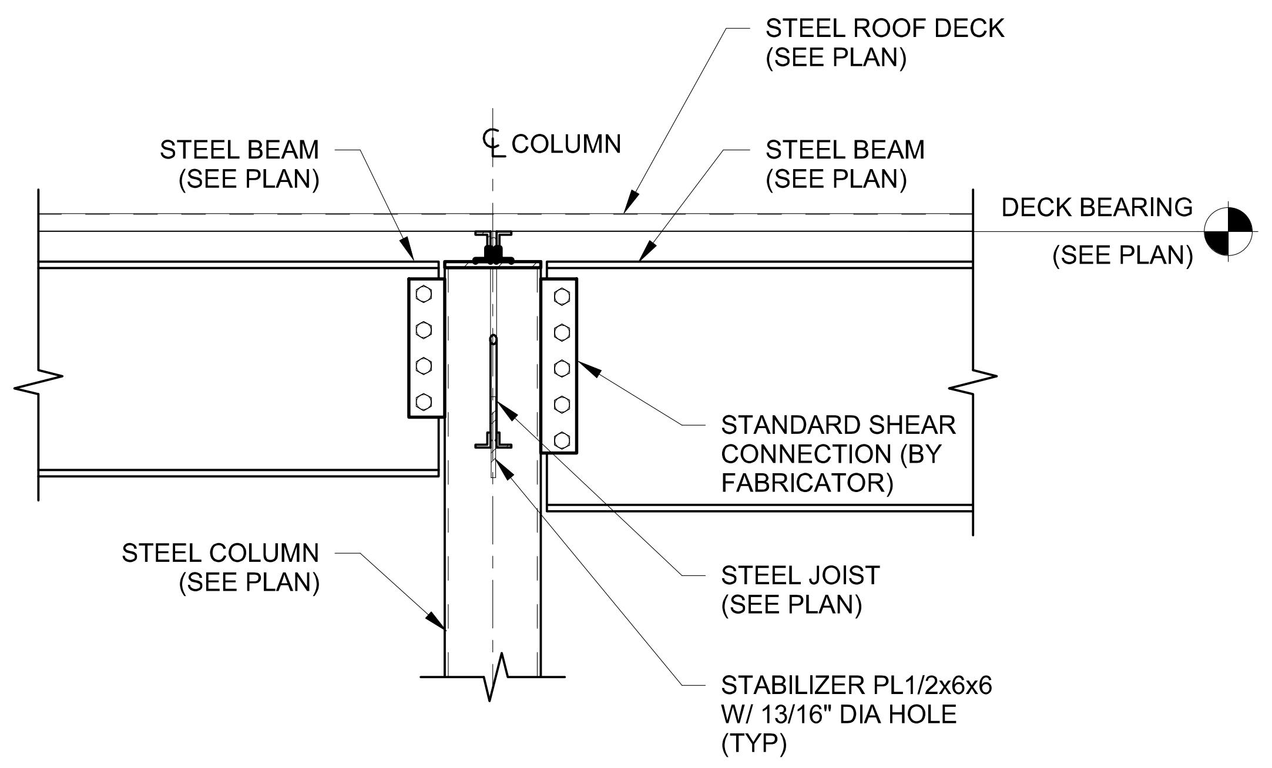
SCALE: 3" = 1'-0"



TYPICAL JOIST AT COLUMN CONNECTION - SECTION

5
S521

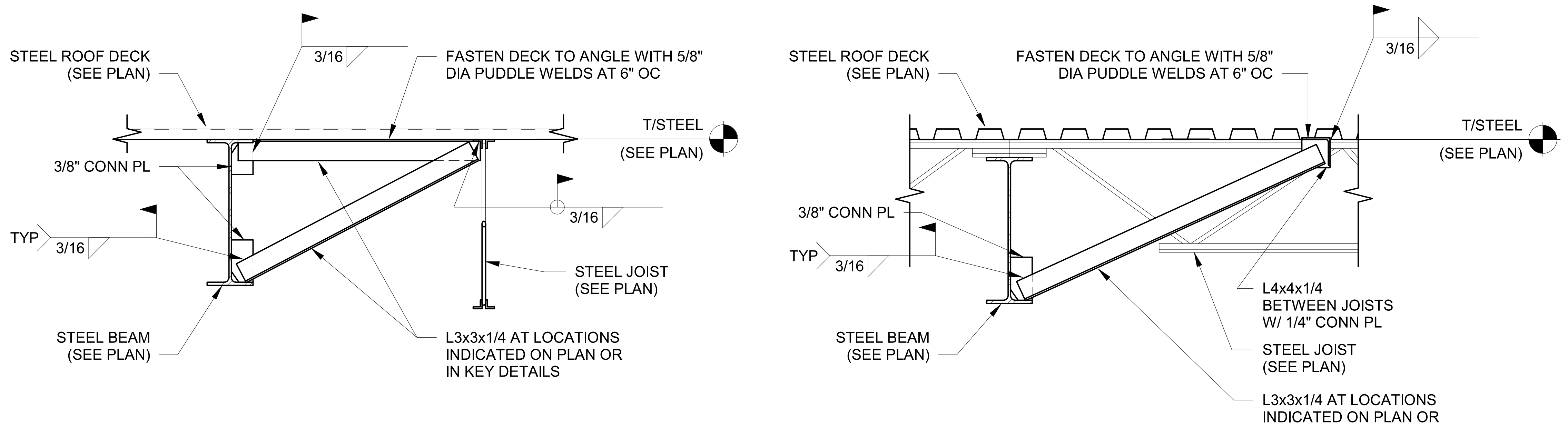
SCALE: 3/4" = 1'-0"



TYPICAL BEAM/GIRDER @ COLUMN CONNECTION - SECTION

6
S521

SCALE: 3/4" = 1'-0"



TYPICAL BEAM BRACING AT ROOF - SECTION

7
S521

SCALE: 3/4" = 1'-0"

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STEEL ROOF FRAMING DETAILS

DRAWING NUMBER
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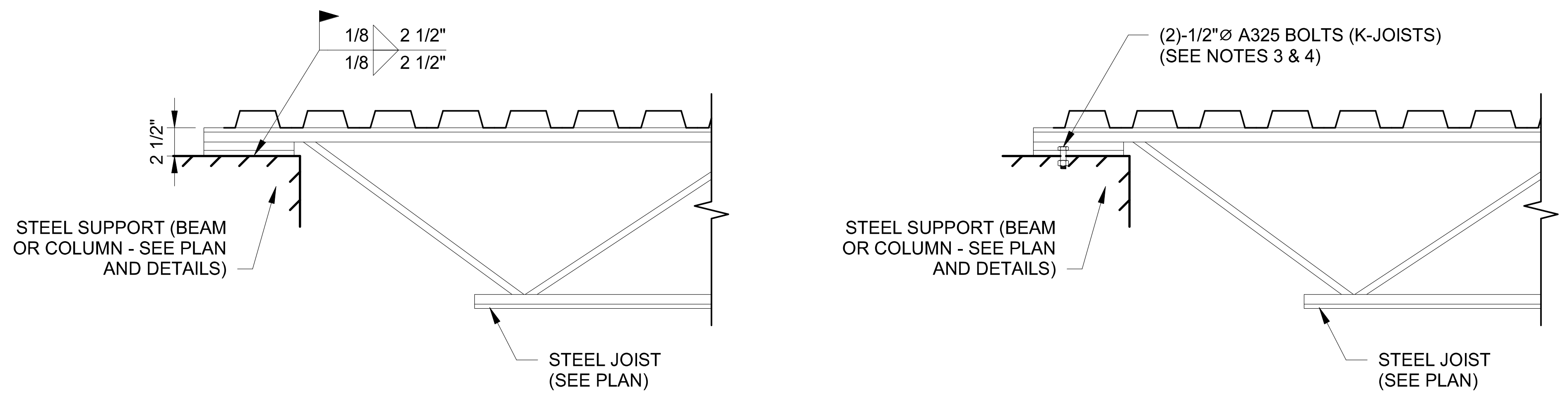


1/8
2 1/2"
1/8
2 1/2"
2 1/2"
STEEL SUPPORT (BEAM OR COLUMN - SEE PLAN AND DETAILS)
STEEL JOIST (SEE PLAN)
(2)-1/2"Ø A325 BOLTS (K-JOISTS) (SEE NOTES 3 & 4)
STEEL SUPPORT (BEAM OR COLUMN - SEE PLAN AND DETAILS)
STEEL JOIST (SEE PLAN)

WELDED CONNECTION

BOLTED CONNECTION

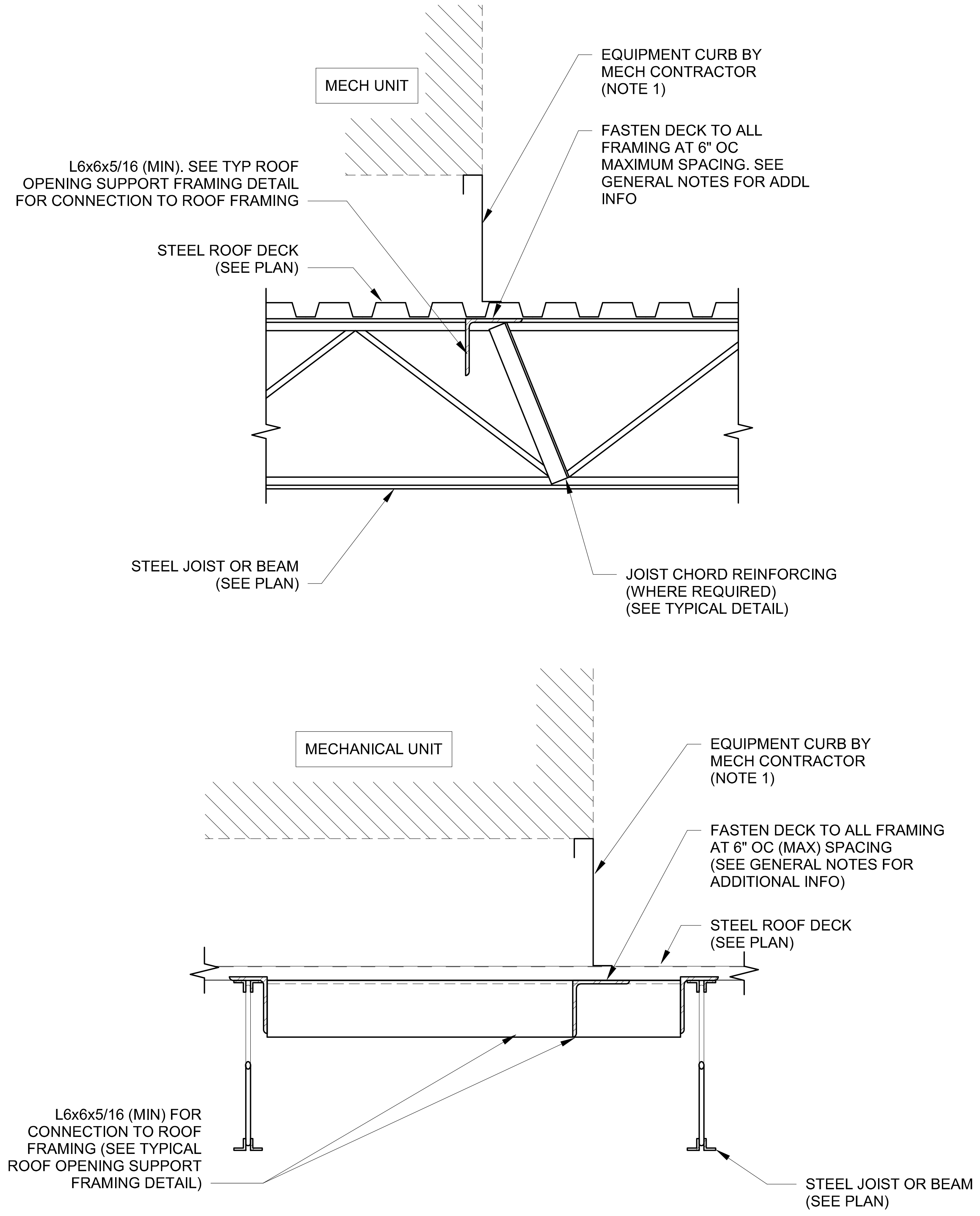
NOTES:

1. JOIST SEAT DEPTHS AND CONNECTIONS INDICATED IN THIS DETAIL ARE TYPICAL UNO ON PLANS AND SPECIFIC DETAILS.
2. SLOPED OR BEVELED SEATS ARE REQUIRED WHERE ROOF SLOPE EXCEEDS 1/4"/FT. COMPLY WITH SJI SPECIFICATIONS AND SEE PLANS FOR JOIST SEAT DEPTHS.
3. BOLTED CONNECTIONS ARE REQUIRED AT LOCATIONS INDICATED BY THE JOIST SUPPLIER.
4. IF BOLTS CANNOT BE INSTALLED AT CONNECTIONS INDICATED AS BOLTED, NOTIFY THE JOIST SUPPLIER AND SUBMIT PROPOSED CONNECTION MODIFICATION TO ARCH/SEOR FOR REVIEW. WELDS INDICATED IN THIS DETAIL SHALL NOT BE SUBSTITUTED FOR BOLTS.

TYPICAL STEEL JOIST SEAT CONNECTIONS - SECTION

SCALE: 1" = 1'-0"

1
S522



MECH UNIT
EQUIPMENT CURB BY MECH CONTRACTOR (NOTE 1)
FASTEN DECK TO ALL FRAMING AT 6" OC MAXIMUM SPACING. SEE GENERAL NOTES FOR ADDL INFO
L6x6x5/16 (MIN). SEE TYP ROOF OPENING SUPPORT FRAMING DETAIL FOR CONNECTION TO ROOF FRAMING
STEEL ROOF DECK (SEE PLAN)
STEEL JOIST OR BEAM (SEE PLAN)
JOIST CHORD REINFORCING (WHERE REQUIRED) (SEE TYPICAL DETAIL)
MECHANICAL UNIT
EQUIPMENT CURB BY MECH CONTRACTOR (NOTE 1)
FASTEN DECK TO ALL FRAMING AT 6" OC (MAX) SPACING (SEE GENERAL NOTES FOR ADDITIONAL INFO)
STEEL ROOF DECK (SEE PLAN)
L6x6x5/16 (MIN) FOR CONNECTION TO ROOF FRAMING (SEE TYPICAL ROOF OPENING SUPPORT FRAMING DETAIL)
STEEL JOIST OR BEAM (SEE PLAN)

NOTES:

1. COORDINATE SIZE AND LOCATION OF EQUIPMENT CURB WITH MECHANICAL CONTRACTOR. CURB SHALL BE SUPPORTED ON ALL SIDES.
2. ANCHOR EQUIPMENT AND CURB TO MISCELLANEOUS FRAMING SHOWN AS REQUIRED FOR WIND AND/OR SEISMIC FORCES. COORDINATE WITH EQUIPMENT/CURB MANUFACTURER (CONNECTION DESIGN NOT BY PES STRUCTURAL ENGINEERS).
3. NOTIFY SEOR IF EQUIPMENT SIZE AND/OR WEIGHT (INCLUDING CURB) EXCEEDS WEIGHT NOTED ON PLANS.
4. IN ADDITION TO CURB SUPPORT FRAME, INSTALL TYPICAL ROOF OPENING FRAME TO SUPPORT DECK AT PERIMETER OF OPENINGS. SEE TYPICAL ROOF OPENING FRAME DETAIL FOR ADDITIONAL INFORMATION.
5. PROVIDE LARGER FRAMING MEMBERS AS REQUIRED FOR ANCHORAGE OF EQUIPMENT CURB.

TYPICAL EQUIPMENT CURB SUPPORT - SECTION

SCALE: 1" = 1'-0"

2
S522

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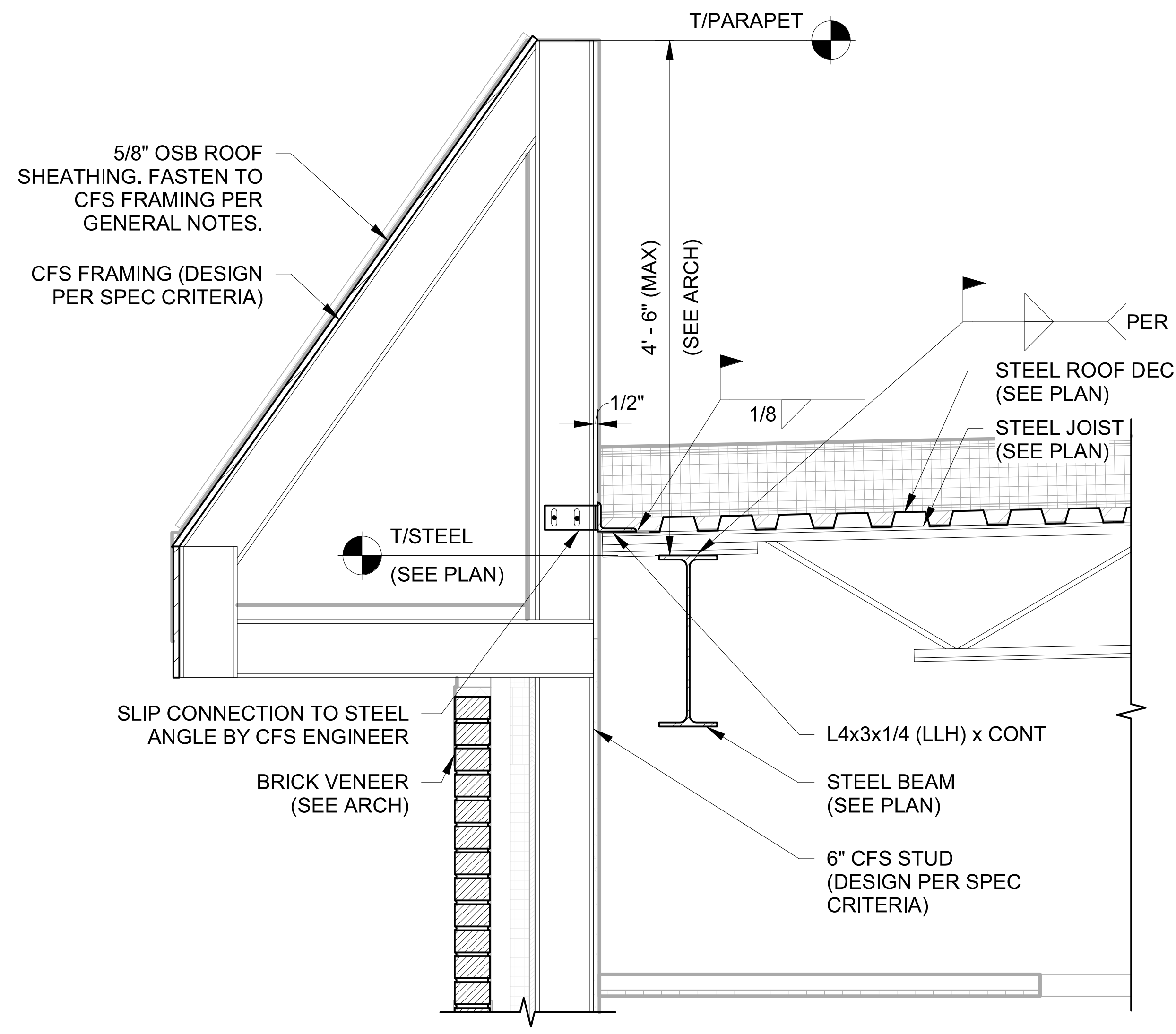
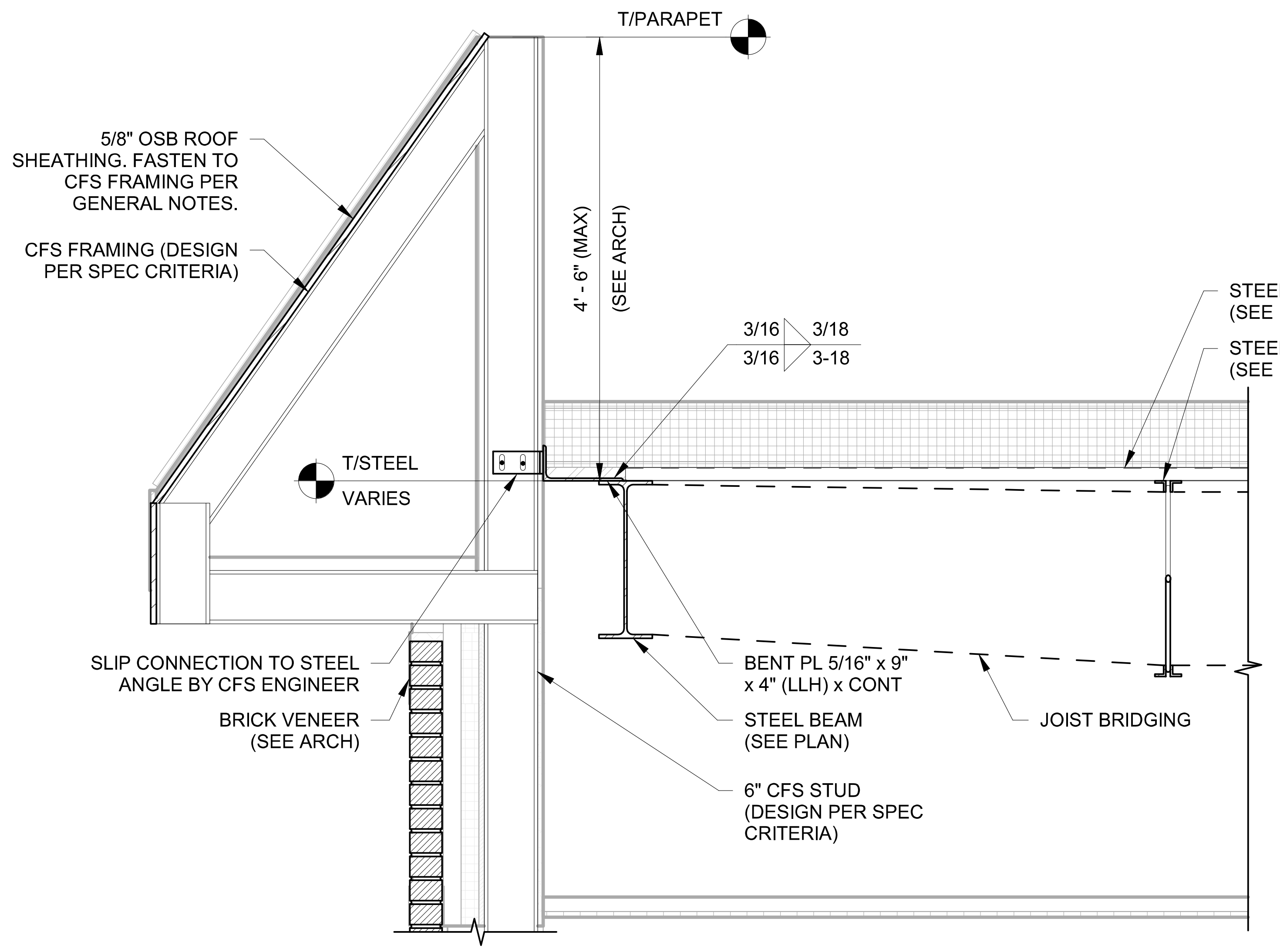

T/PARAPET
5/8" OSB ROOF SHEATHING. FASTEN TO CFS FRAMING PER GENERAL NOTES.
CFS FRAMING (DESIGN PER SPEC CRITERIA)
4' - 6" (MAX)
(SEE ARCH)
PER 1/S522
1/2"
1/8
STEEL ROOF DECK (SEE PLAN)
STEEL JOIST (SEE PLAN)
T/STEEL
(SEE PLAN)
SLIP CONNECTION TO STEEL ANGLE BY CFS ENGINEER
BRICK VENEER (SEE ARCH)
L4x3x1/4 (LLH) x CONT
STEEL BEAM (SEE PLAN)
6" CFS STUD (DESIGN PER SPEC CRITERIA)

STEEL ROOF FRAMING AT EXTERIOR WALL WITH MANSARD ROOF - SECTION

1 S523

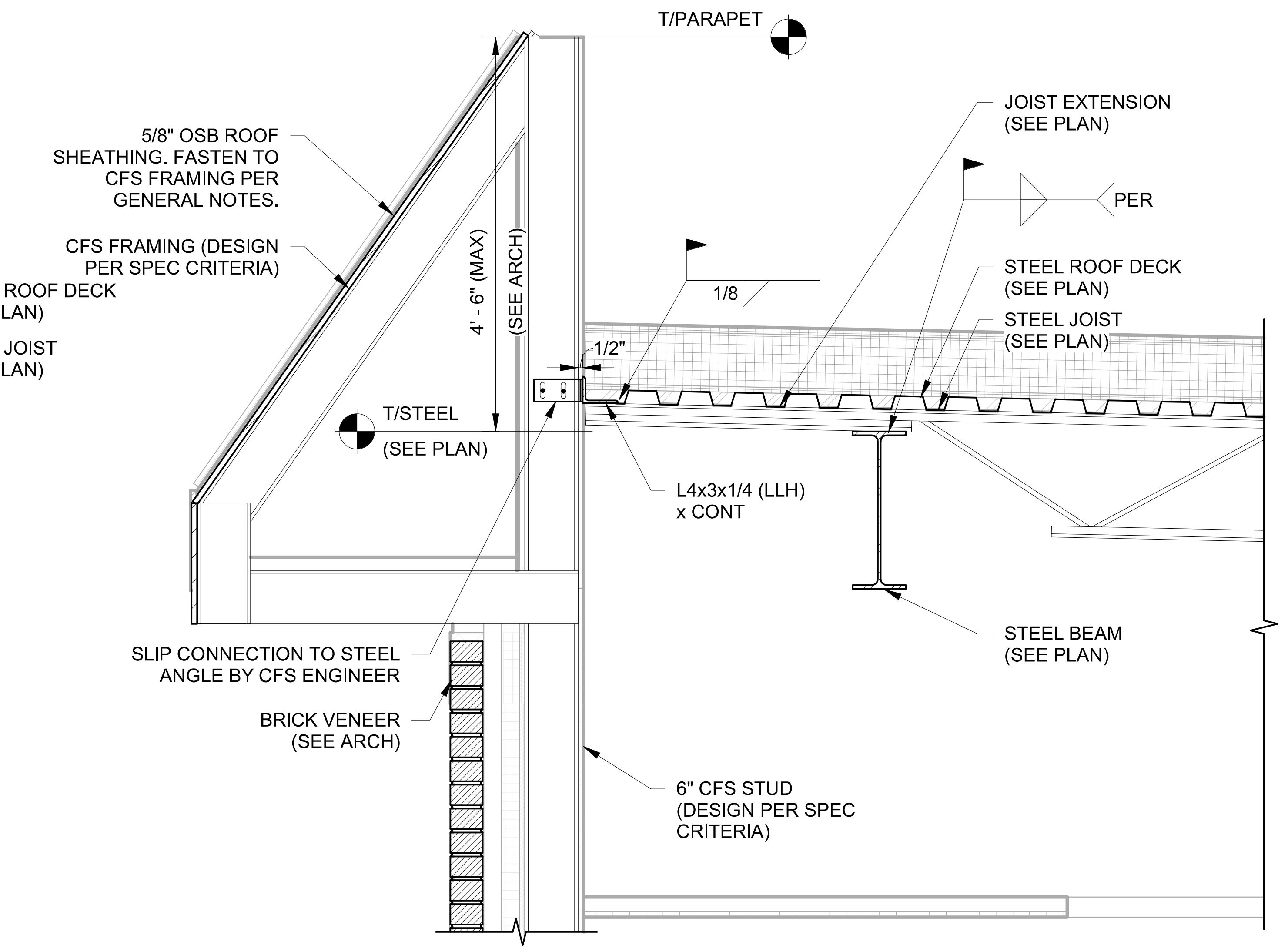
SCALE: 3/4" = 1'-0"


T/PARAPET
5/8" OSB ROOF SHEATHING. FASTEN TO CFS FRAMING PER GENERAL NOTES.
CFS FRAMING (DESIGN PER SPEC CRITERIA)
4' - 6" (MAX)
(SEE ARCH)
3/16 3/18
3/16 3-18
STEEL ROOF DECK (SEE PLAN)
STEEL JOIST (SEE PLAN)
T/STEEL
VARIES
SLIP CONNECTION TO STEEL ANGLE BY CFS ENGINEER
BRICK VENEER (SEE ARCH)
BENT PL 5/16" x 9" x 4" (LLH) x CONT
STEEL BEAM (SEE PLAN)
JOIST BRIDGING
6" CFS STUD (DESIGN PER SPEC CRITERIA)

STEEL ROOF FRAMING AT EXTERIOR WALL WITH MANSARD ROOF - SECTION

2 S523

SCALE: 3/4" = 1'-0"


T/PARAPET
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CFS FRAMING (DESIGN PER SPEC CRITERIA)
JOIST EXTENSION (SEE PLAN)
PER
4' - 6" (MAX)
(SEE ARCH)
1/8
1/2"
STEEL ROOF DECK (SEE PLAN)
STEEL JOIST (SEE PLAN)
T/STEEL
(SEE PLAN)
L4x3x1/4 (LLH) x CONT
STEEL BEAM (SEE PLAN)
SLIP CONNECTION TO STEEL ANGLE BY CFS ENGINEER
BRICK VENEER (SEE ARCH)
6" CFS STUD (DESIGN PER SPEC CRITERIA)

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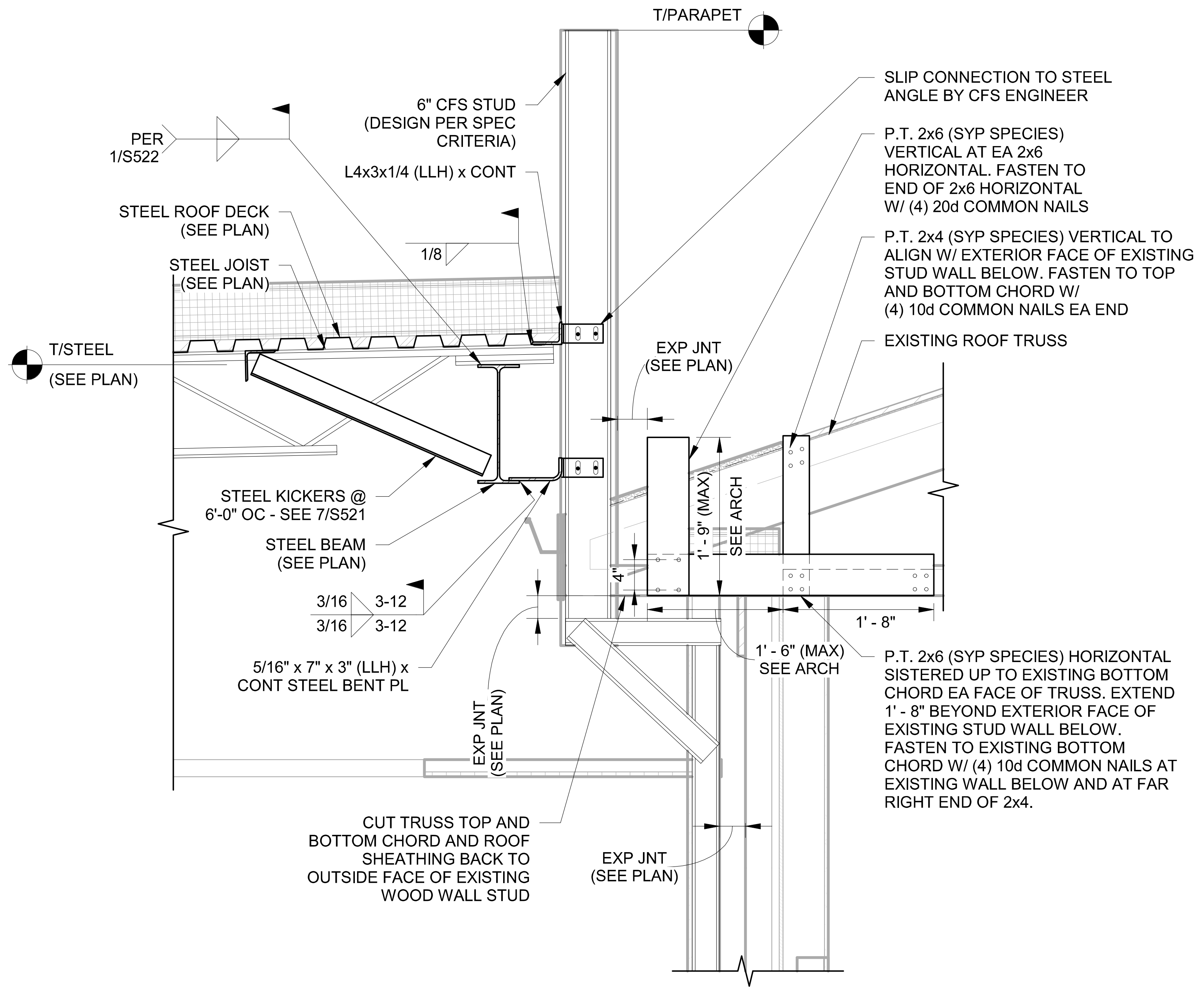
STEEL ROOF FRAMING WITH JOIST EXTENSION AT EXTERIOR WALL WITH MANSARD ROOF - SECTION

3 S523

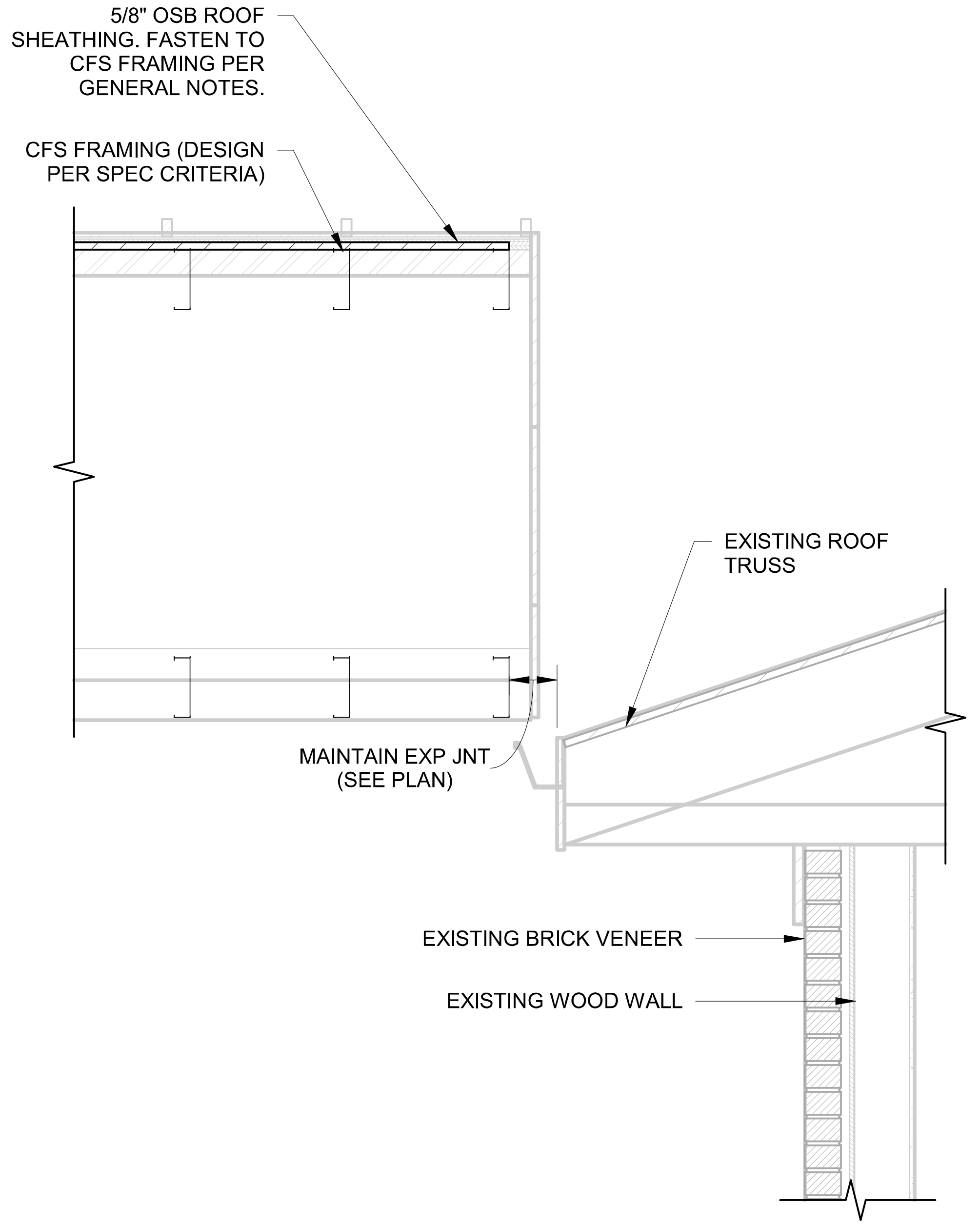
SCALE: 3/4" = 1'-0"


T/PARAPET
PER 1/S522
6" CFS STUD (DESIGN PER SPEC CRITERIA)
L4x3x1/4 (LLH) x CONT
STEEL ROOF DECK (SEE PLAN)
STEEL JOIST (SEE PLAN)
1/8
T/STEEL
(SEE PLAN)
SLIP CONNECTION TO STEEL ANGLE BY CFS ENGINEER
P.T. 2x6 (SYP SPECIES) VERTICAL AT EA 2x6 HORIZONTAL. FASTEN TO END OF 2x6 HORIZONTAL W/ (4) 20d COMMON NAILS
P.T. 2x4 (SYP SPECIES) VERTICAL TO ALIGN W/ EXTERIOR FACE OF EXISTING STUD WALL BELOW. FASTEN TO TOP AND BOTTOM CHORD W/ (4) 10d COMMON NAILS EA END
EXISTING ROOF TRUSS
EXP JNT (SEE PLAN)
STEEL KICKERS @ 6'-0" OC - SEE 7/S521
STEEL BEAM (SEE PLAN)
1' - 9" (MAX)
SEE ARCH
3/16 3-12
3/16 3-12
5/16" x 7" x 3" (LLH) x CONT STEEL BENT PL
1' - 8"
1' - 6" (MAX) SEE ARCH
P.T. 2x6 (SYP SPECIES) HORIZONTAL SISTERED UP TO EXISTING BOTTOM CHORD EA FACE OF TRUSS. EXTEND 1' - 8" BEYOND EXTERIOR FACE OF EXISTING STUD WALL BELOW. FASTEN TO EXISTING BOTTOM CHORD W/ (4) 10d COMMON NAILS AT EXISTING WALL BELOW AND AT FAR RIGHT END OF 2x4.
EXP JNT (SEE PLAN)
CUT TRUSS TOP AND BOTTOM CHORD AND ROOF SHEATHING BACK TO OUTSIDE FACE OF EXISTING WOOD WALL STUD
EXP JNT (SEE PLAN)

STEEL ROOF FRAMING AT EXISTING WOOD ROOF FRAMING - SECTION

4 S523

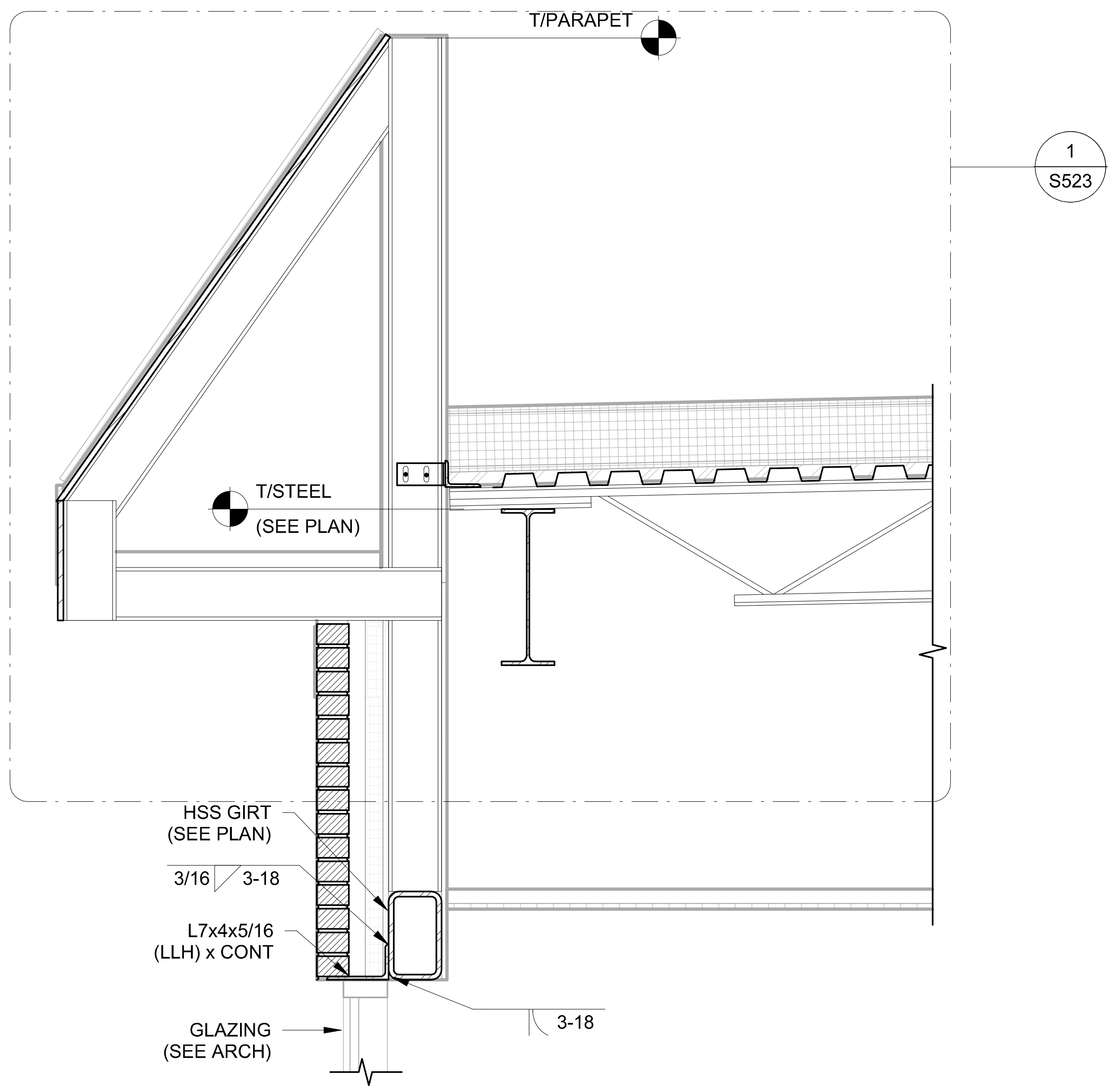
SCALE: 3/4" = 1'-0"


5/8" OSB ROOF SHEATHING. FASTEN TO CFS FRAMING PER GENERAL NOTES.
CFS FRAMING (DESIGN PER SPEC CRITERIA)
EXISTING ROOF TRUSS
MAINTAIN EXP JNT (SEE PLAN)
EXISTING BRICK VENEER
EXISTING WOOD WALL

STEEL ROOF FRAMING AT EXISTING WOOD ROOF FRAMING - SECTION

5 S523

SCALE: 3/4" = 1'-0"



STEEL ROOF FRAMING AT EXTERIOR WALL WITH MANSARD ROOF WITH HSS GIRT BELOW SECTION

6 S523

SCALE: 3/4" = 1'-0"

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No. SE000165
CHAD FORSTER

Chad A Forster
2026.08.18
17:23:45-04'00'

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

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CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

STEEL ROOF FRAMING DETAILS

DRAWING NUMBER
S523

Plot Date: 8/18/2026 2:16:24 PM
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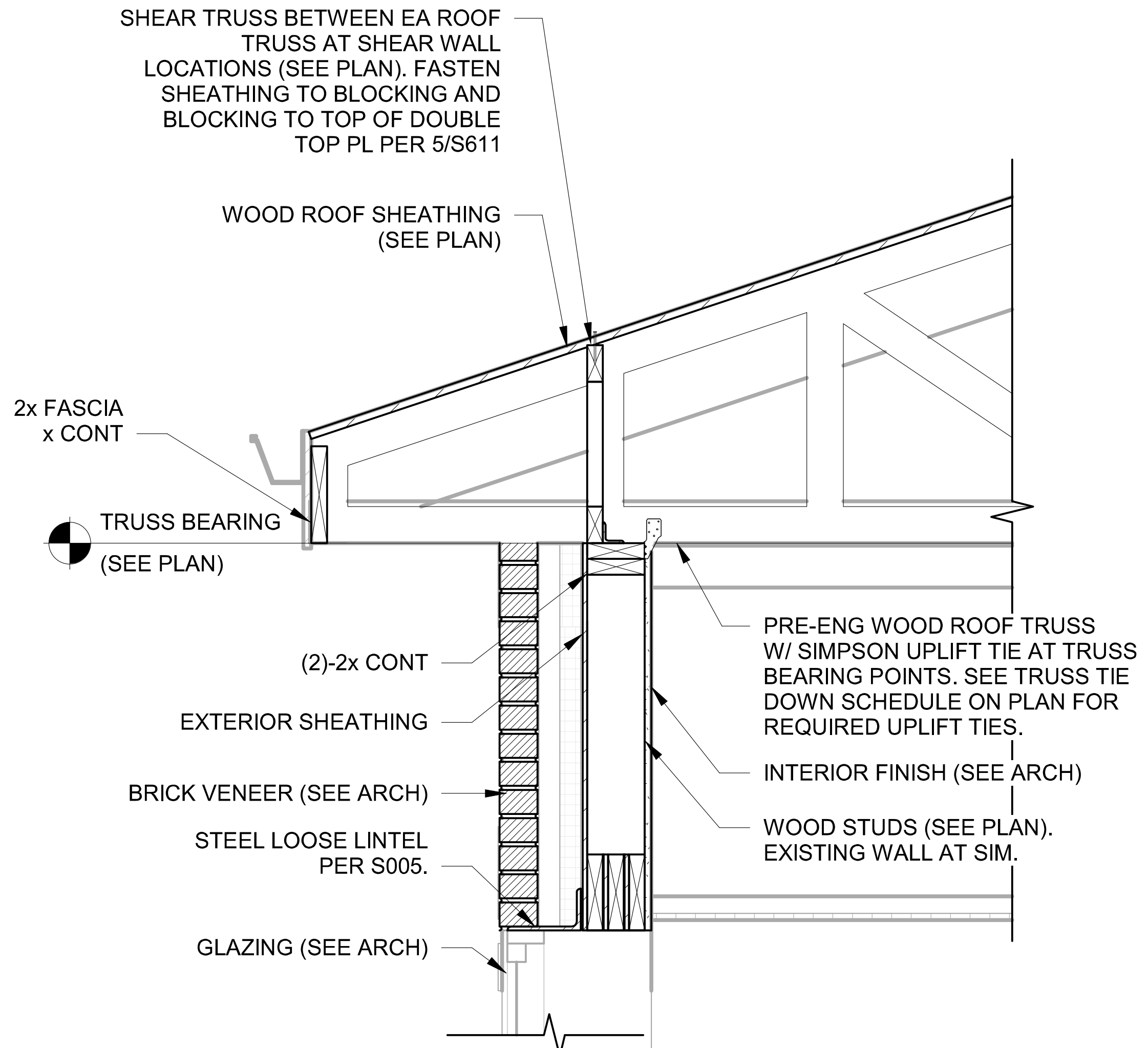
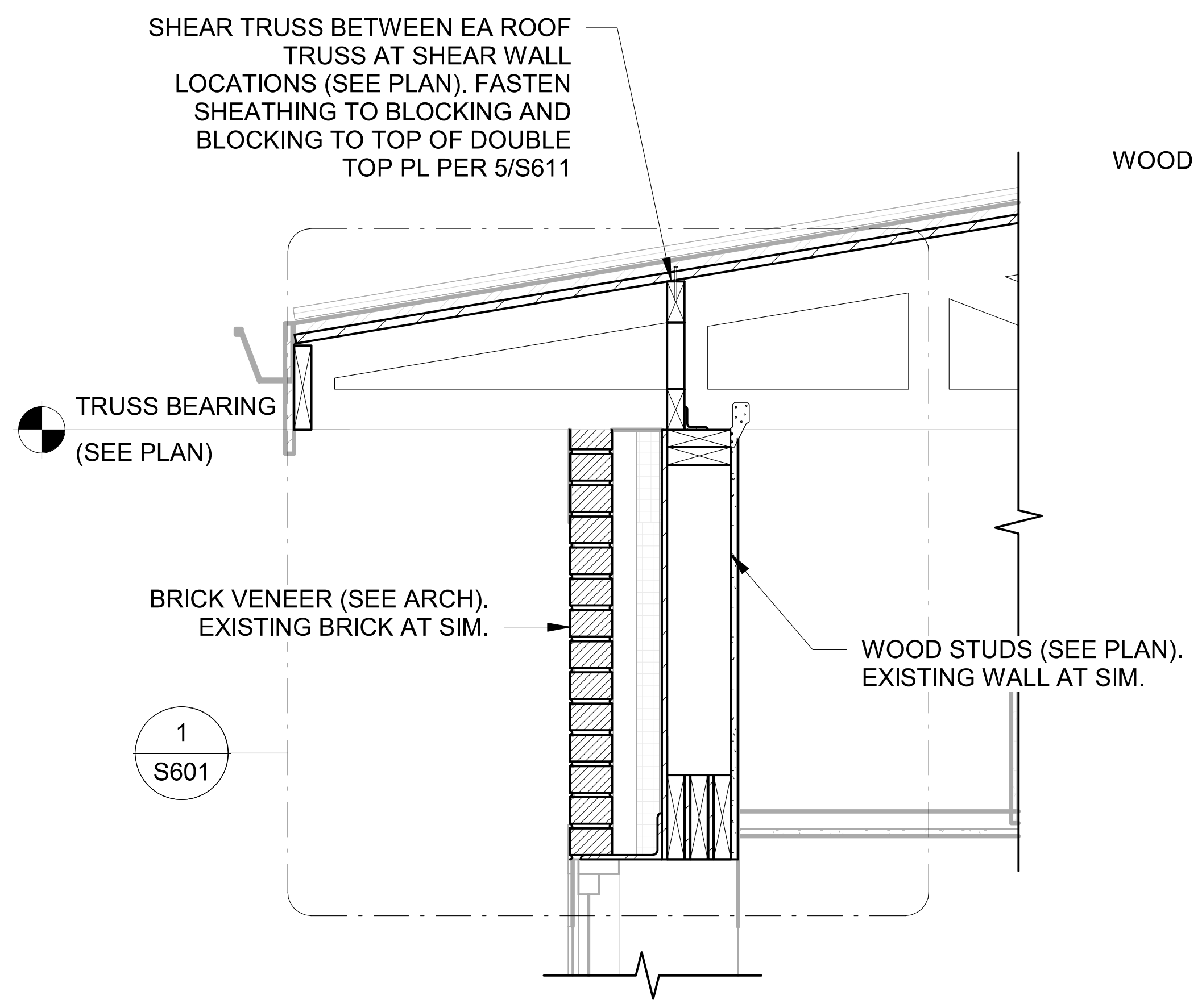

SHEAR TRUSS BETWEEN EA ROOF TRUSS AT SHEAR WALL LOCATIONS (SEE PLAN). FASTEN SHEATHING TO BLOCKING AND BLOCKING TO TOP OF DOUBLE TOP PL PER 5/S611
WOOD ROOF SHEATHING (SEE PLAN)
2x FASCIA x CONT
TRUSS BEARING (SEE PLAN)
(2)-2x CONT
EXTERIOR SHEATHING
BRICK VENEER (SEE ARCH)
STEEL LOOSE LINTEL PER S005.
GLAZING (SEE ARCH)
PRE-ENG WOOD ROOF TRUSS W/ SIMPSON UPLIFT TIE AT TRUSS BEARING POINTS. SEE TRUSS TIE DOWN SCHEDULE ON PLAN FOR REQUIRED UPLIFT TIES.
INTERIOR FINISH (SEE ARCH)
WOOD STUDS (SEE PLAN). EXISTING WALL AT SIM.

WOOD ROOF FRAMING AT EXTERIOR WALL - SECTION

1 S601

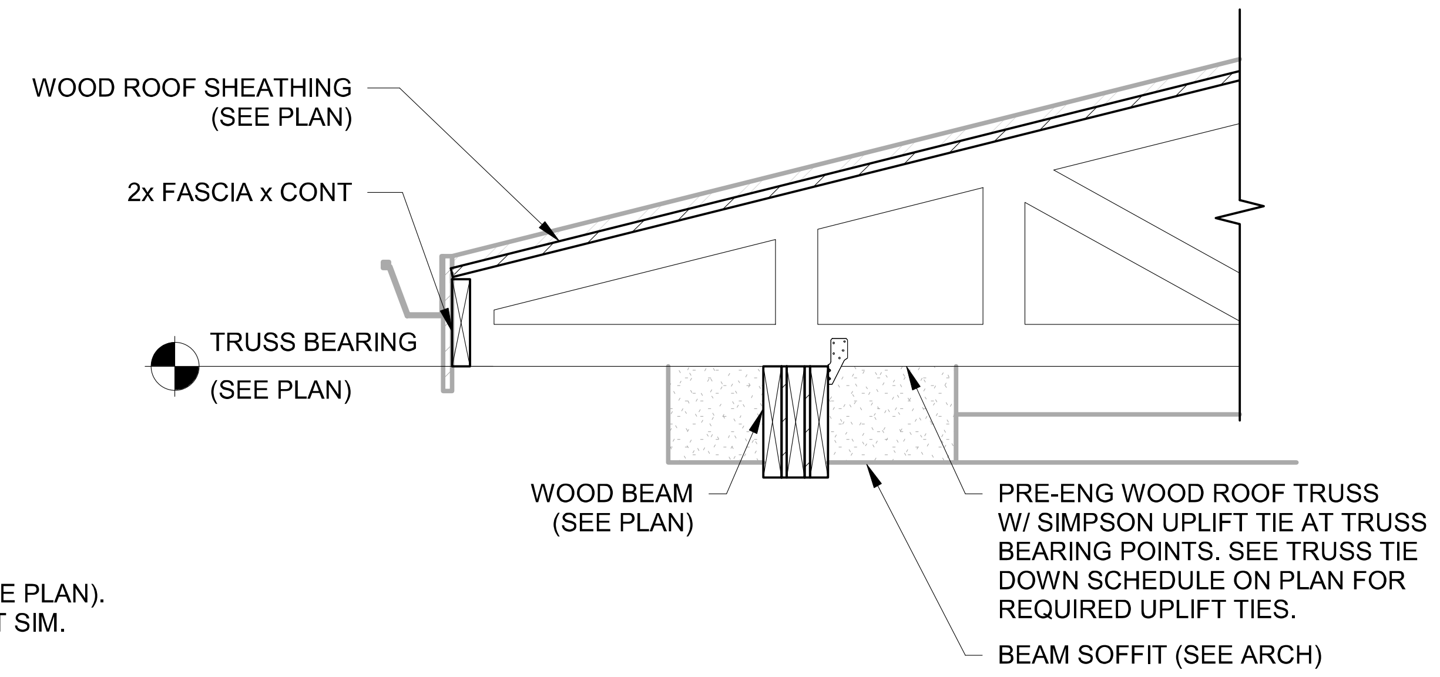
SCALE: 3/4" = 1'-0"


SHEAR TRUSS BETWEEN EA ROOF TRUSS AT SHEAR WALL LOCATIONS (SEE PLAN). FASTEN SHEATHING TO BLOCKING AND BLOCKING TO TOP OF DOUBLE TOP PL PER 5/S611
TRUSS BEARING (SEE PLAN)
BRICK VENEER (SEE ARCH). EXISTING BRICK AT SIM.
1 S601
WOOD STUDS (SEE PLAN). EXISTING WALL AT SIM.

WOOD ROOF FRAMING AT EXTERIOR WALL - SECTION

2 S601

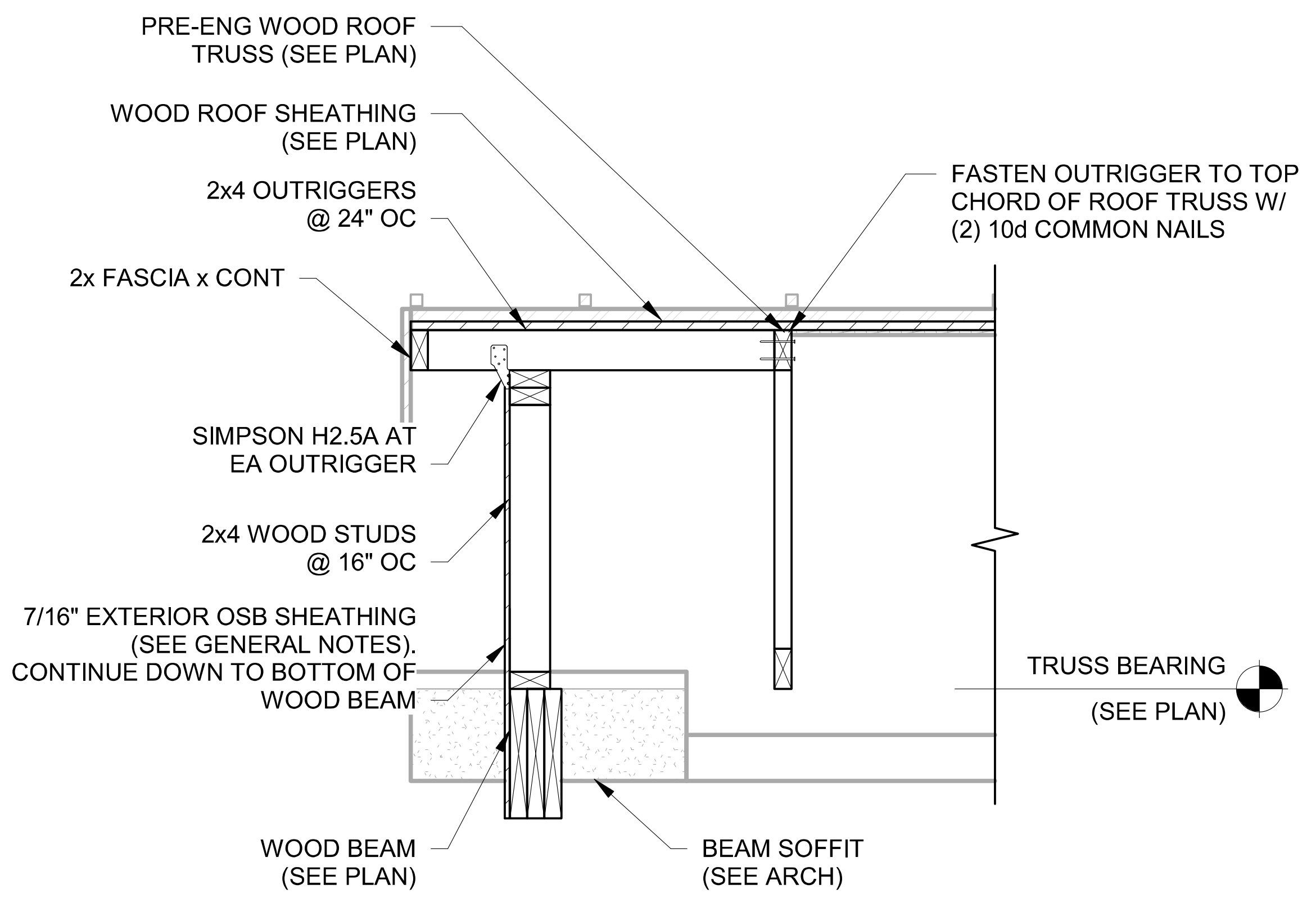
SCALE: 3/4" = 1'-0"


WOOD ROOF SHEATHING (SEE PLAN)
2x FASCIA x CONT
TRUSS BEARING (SEE PLAN)
WOOD BEAM (SEE PLAN)
PRE-ENG WOOD ROOF TRUSS W/ SIMPSON UPLIFT TIE AT TRUSS BEARING POINTS. SEE TRUSS TIE DOWN SCHEDULE ON PLAN FOR REQUIRED UPLIFT TIES.
BEAM SOFFIT (SEE ARCH)

WOOD ROOF FRAMING AT WOOD BEAM - SECTION

3 S601

SCALE: 3/4" = 1'-0"


PRE-ENG WOOD ROOF TRUSS (SEE PLAN)
WOOD ROOF SHEATHING (SEE PLAN)
2x4 OUTRIGGERS @ 24" OC
2x FASCIA x CONT
SIMPSON H2.5A AT EA OUTRIGGER
2x4 WOOD STUDS @ 16" OC
7/16" EXTERIOR OSB SHEATHING (SEE GENERAL NOTES). CONTINUE DOWN TO BOTTOM OF WOOD BEAM
WOOD BEAM (SEE PLAN)
FASTEN OUTRIGGER TO TOP CHORD OF ROOF TRUSS W/ (2) 10d COMMON NAILS
TRUSS BEARING (SEE PLAN)
BEAM SOFFIT (SEE ARCH)

WOOD ROOF GABLE END AT WOOD BEAM - SECTION

4 S601

SCALE: 3/4" = 1'-0"

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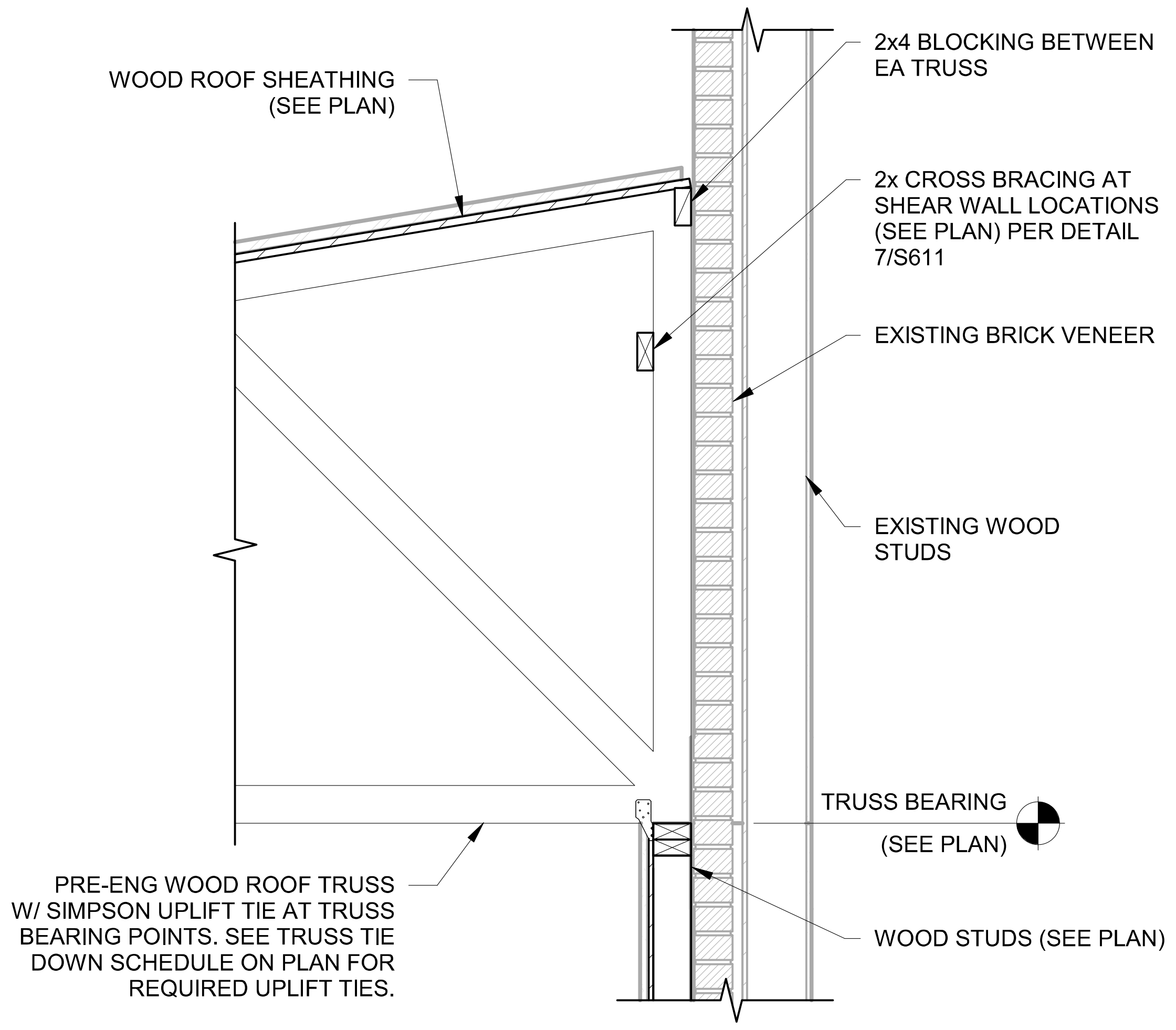
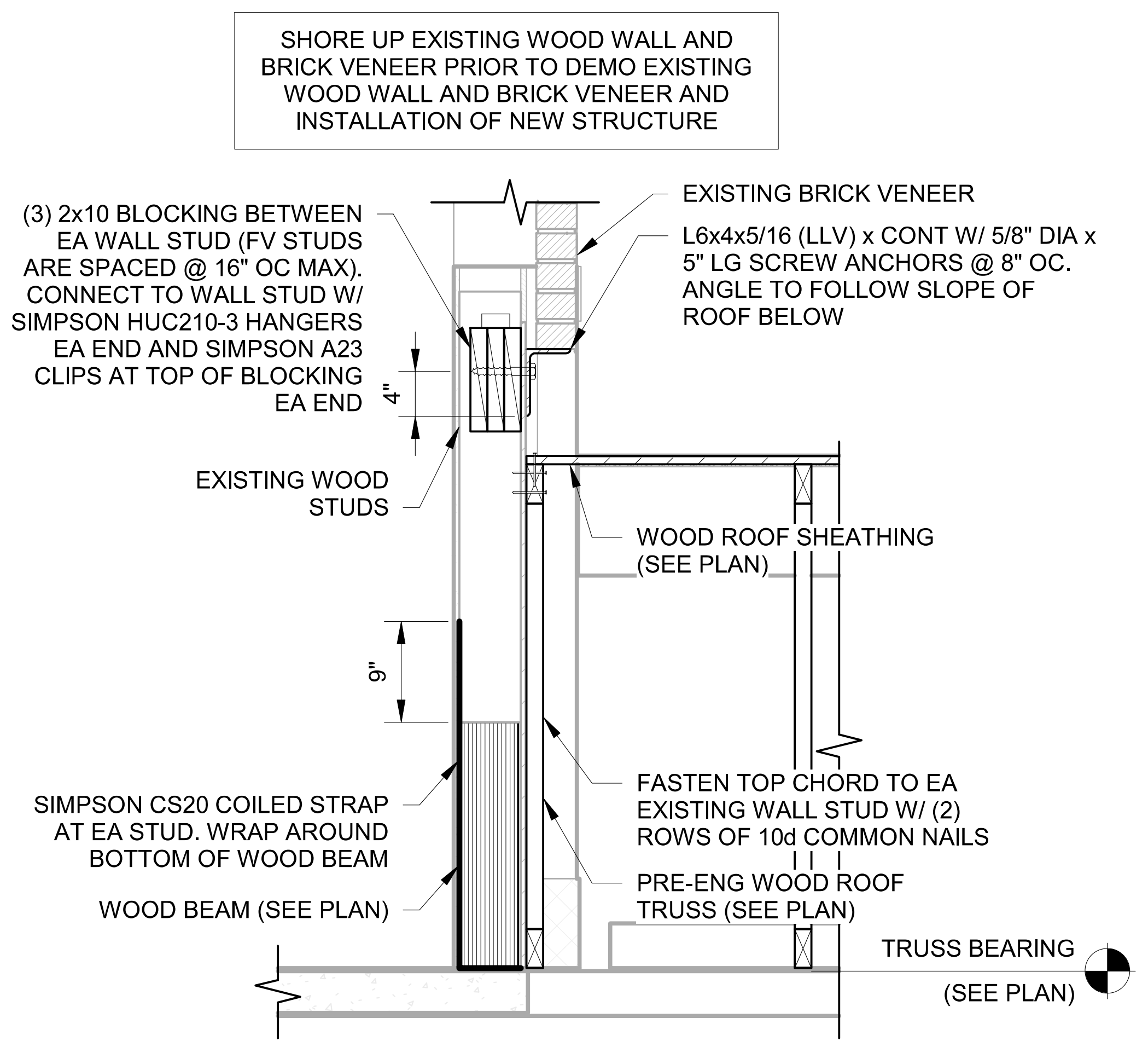

WOOD ROOF SHEATHING (SEE PLAN)
2x4 BLOCKING BETWEEN EA TRUSS
2x CROSS BRACING AT SHEAR WALL LOCATIONS (SEE PLAN) PER DETAIL 7/S611
EXISTING BRICK VENEER
EXISTING WOOD STUDS
TRUSS BEARING (SEE PLAN)
PRE-ENG WOOD ROOF TRUSS W/ SIMPSON UPLIFT TIE AT TRUSS BEARING POINTS. SEE TRUSS TIE DOWN SCHEDULE ON PLAN FOR REQUIRED UPLIFT TIES.
WOOD STUDS (SEE PLAN)

WOOD ROOF FRAMING AT EXISTING WOOD WALL - SECTION

5 S601

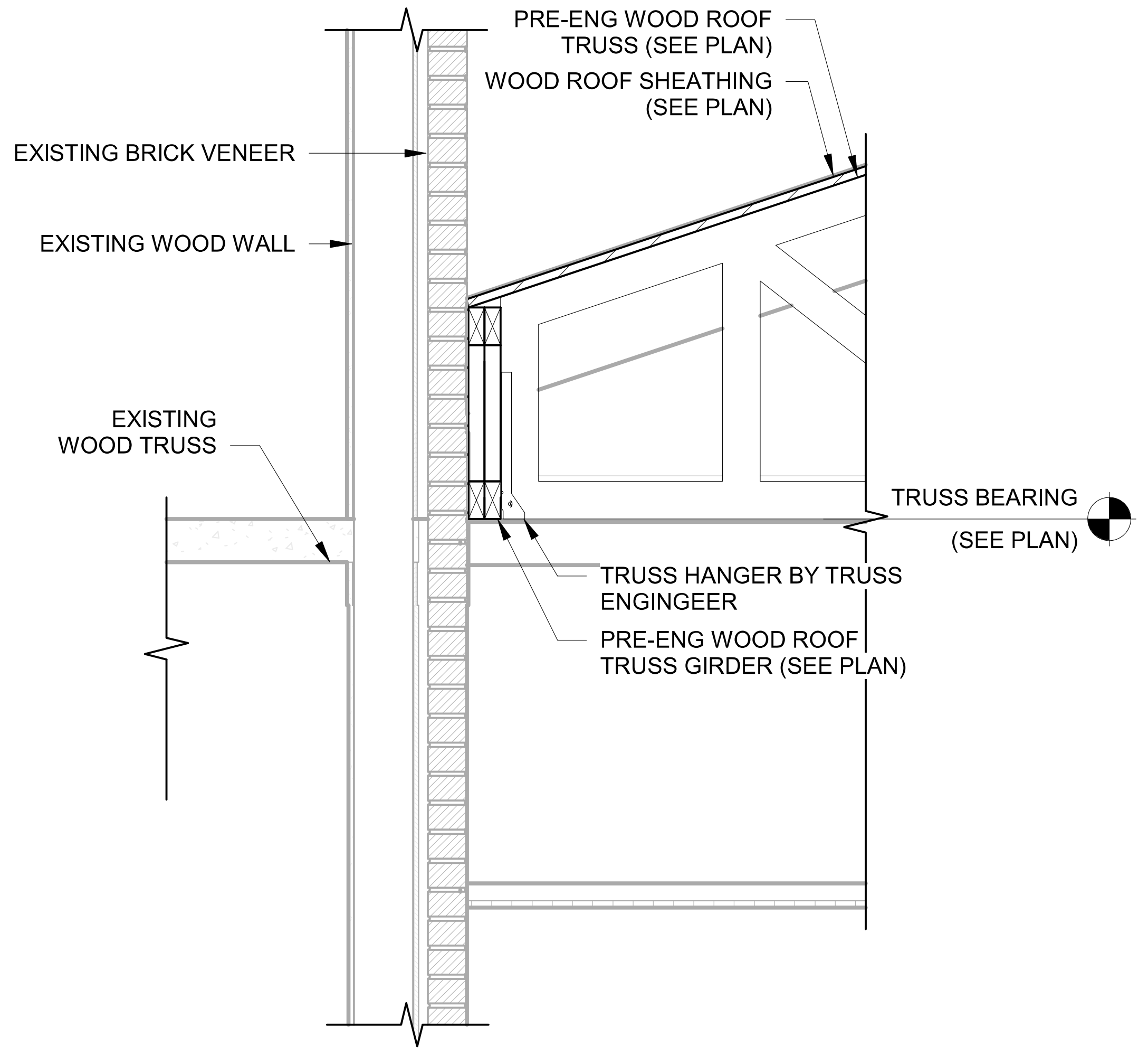
SCALE: 3/4" = 1'-0"


SHORE UP EXISTING WOOD WALL AND BRICK VENEER PRIOR TO DEMO EXISTING WOOD WALL AND BRICK VENEER AND INSTALLATION OF NEW STRUCTURE
(3) 2x10 BLOCKING BETWEEN EA WALL STUD (FV STUDS ARE SPACED @ 16" OC MAX). CONNECT TO WALL STUD W/ SIMPSON HUC210-3 HANGERS EA END AND SIMPSON A23 CLIPS AT TOP OF BLOCKING EA END
4"
EXISTING WOOD STUDS
9"
SIMPSON CS20 COILED STRAP AT EA STUD. WRAP AROUND BOTTOM OF WOOD BEAM
WOOD BEAM (SEE PLAN)
EXISTING BRICK VENEER
L6x4x5/16 (LLV) x CONT W/ 5/8" DIA x 5" LG SCREW ANCHORS @ 8" OC. ANGLE TO FOLLOW SLOPE OF ROOF BELOW
WOOD ROOF SHEATHING (SEE PLAN)
FASTEN TOP CHORD TO EA EXISTING WALL STUD W/ (2) ROWS OF 10d COMMON NAILS
PRE-ENG WOOD ROOF TRUSS (SEE PLAN)
TRUSS BEARING (SEE PLAN)

WOOD BEAM SUPPORTING EXISTING WOOD WALL WITH BRICK - SECTION

6 S601

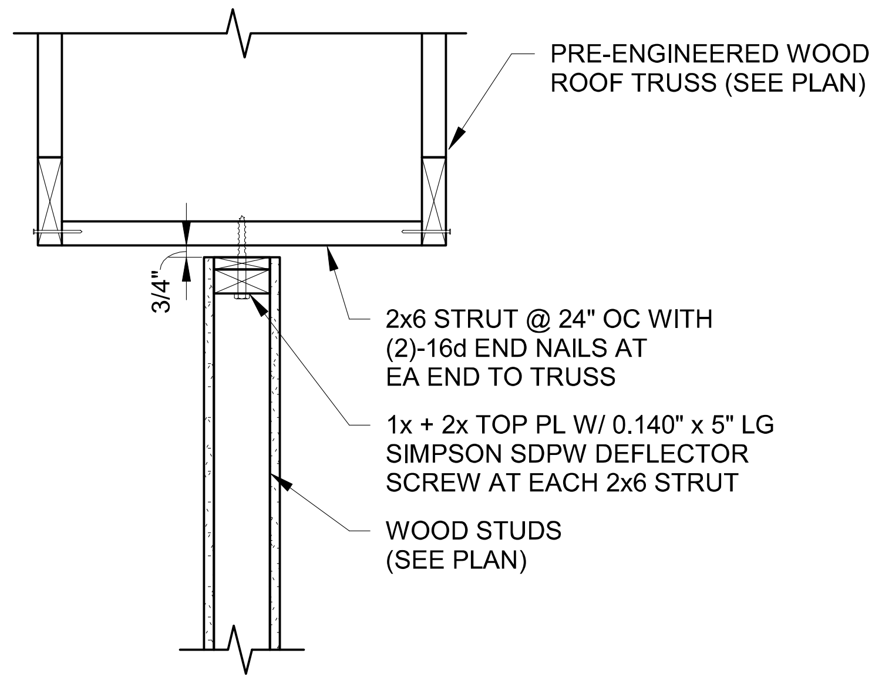
SCALE: 3/4" = 1'-0"


EXISTING BRICK VENEER
EXISTING WOOD WALL
EXISTING WOOD TRUSS
PRE-ENG WOOD ROOF TRUSS (SEE PLAN)
WOOD ROOF SHEATHING (SEE PLAN)
TRUSS BEARING (SEE PLAN)
TRUSS HANGER BY TRUSS ENGINGEER
PRE-ENG WOOD ROOF TRUSS GIRDER (SEE PLAN)

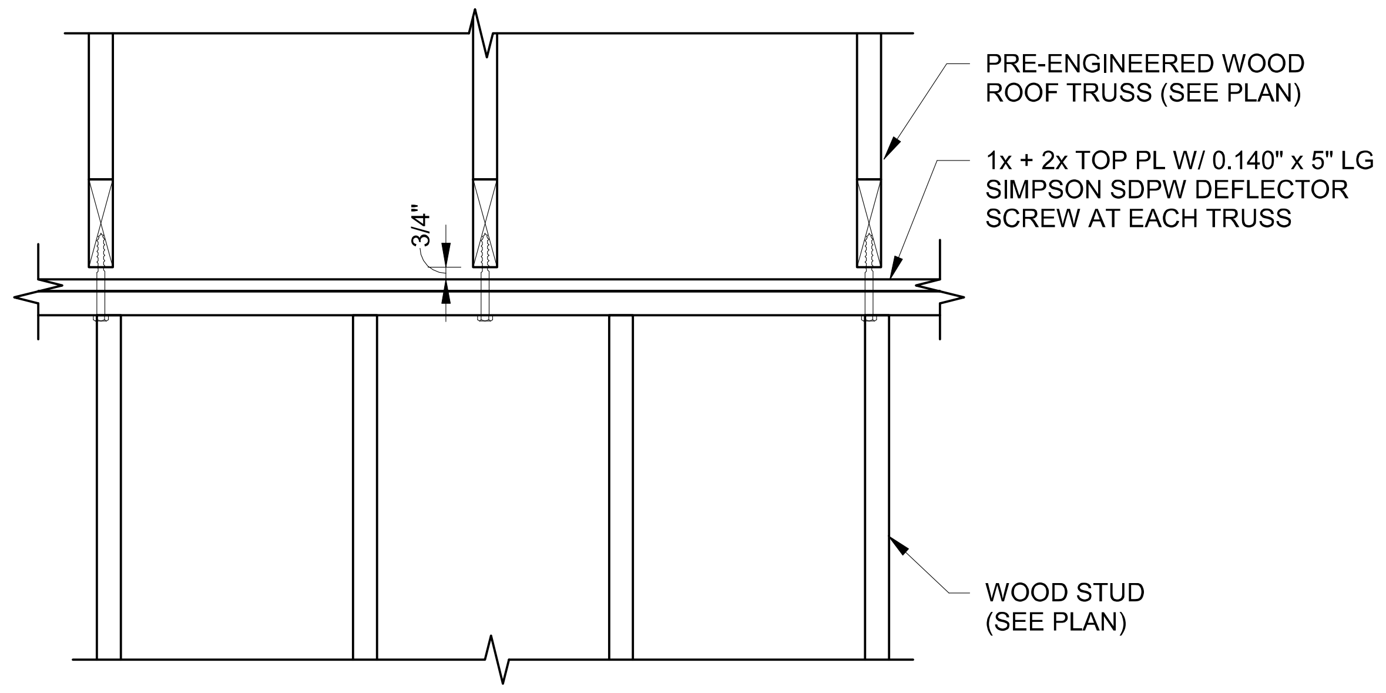
TRUSS GIRDER SUPPORT AT EXISTING WOOD WALL - SECTION

7 S601

SCALE: 3/4" = 1'-0"


PRE-ENGINEERED WOOD ROOF TRUSS (SEE PLAN)
3/4"
2x6 STRUT @ 24" OC WITH (2)-16d END NAILS AT EA END TO TRUSS
1x + 2x TOP PL W/ 0.140" x 5" LG SIMPSON SDPW DEFLECTOR SCREW AT EACH 2x6 STRUT
WOOD STUDS (SEE PLAN)

WALL PARALLEL TO TRUSSES


PRE-ENGINEERED WOOD ROOF TRUSS (SEE PLAN)
3/4"
1x + 2x TOP PL W/ 0.140" x 5" LG SIMPSON SDPW DEFLECTOR SCREW AT EACH TRUSS
WOOD STUD (SEE PLAN)

WALL PERPENDICULAR TO TRUSSES

TYPICAL ROOF TRUSS TO I BEARING WALL CONNECTI

SCALE: 1" = 1'-0"

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No. SE000165
CHAD FORSTER

Chad A Forster
2026.08.18
17:23:46-04'00'

CONSTRUCTION DOCUMENTS
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NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: ARB
DRAWN: ALK
CHECKED: CAF
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

WOOD ROOF FRAMING DETAILS

DRAWING NUMBER
S601

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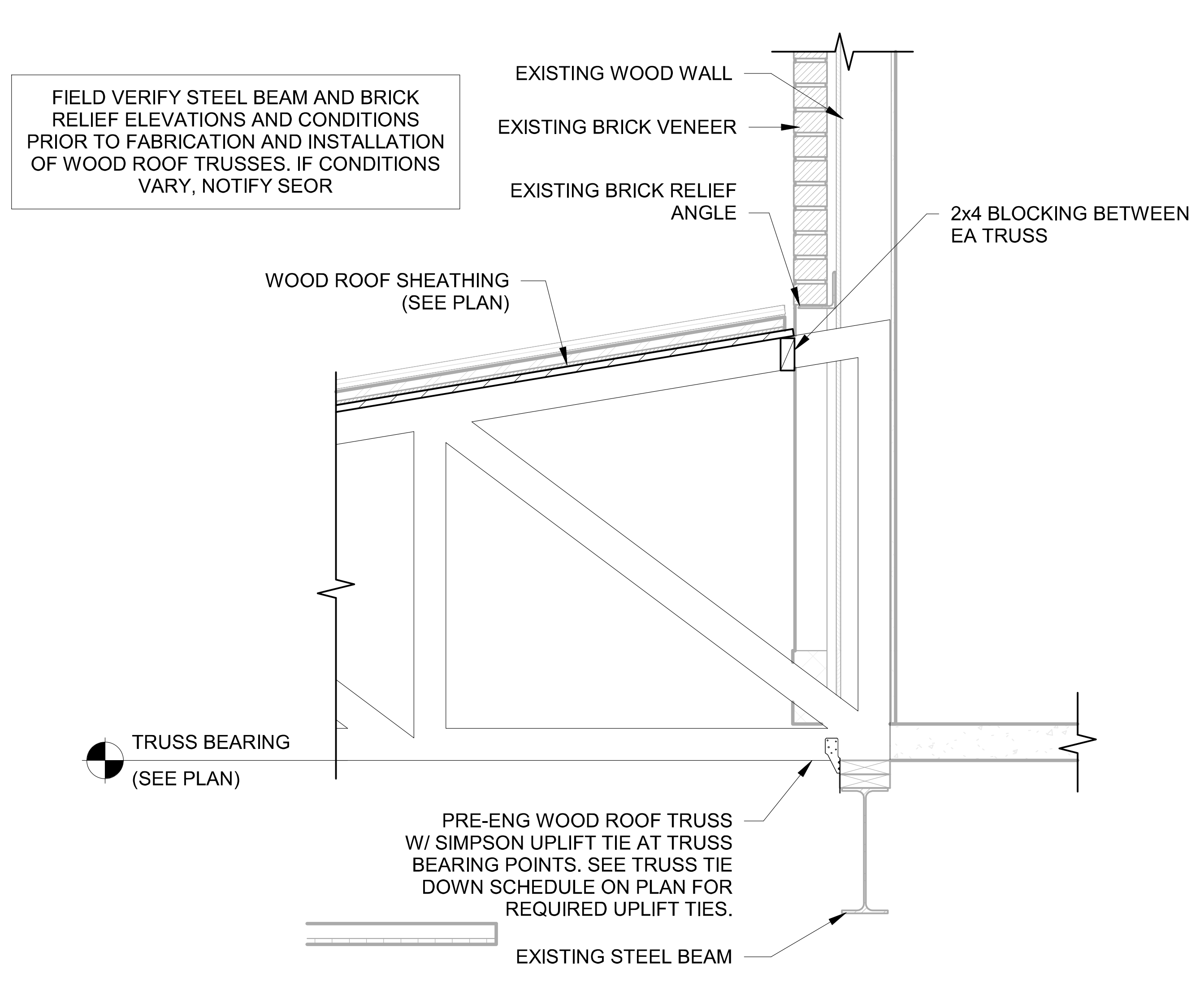
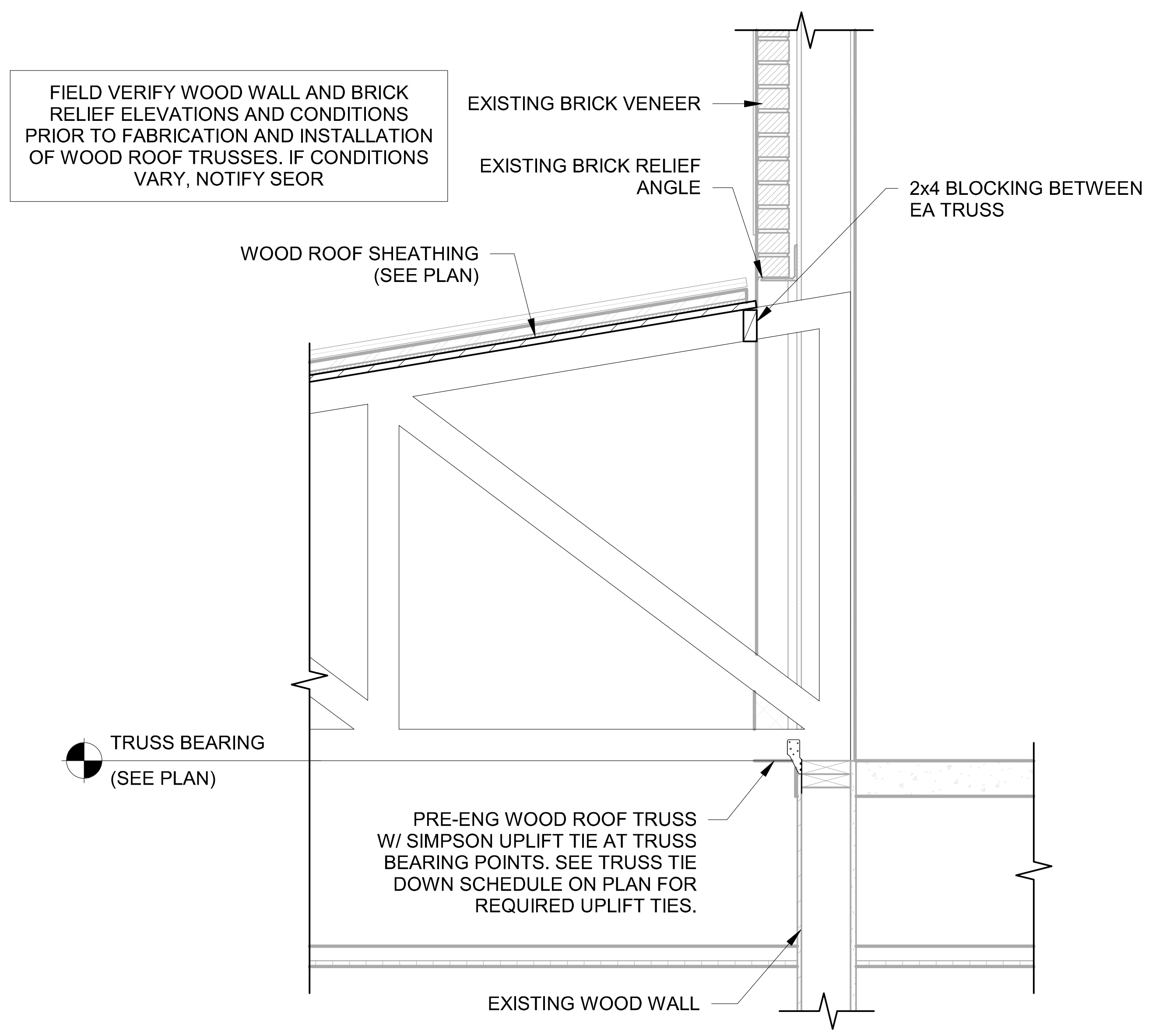

FIELD VERIFY STEEL BEAM AND BRICK RELIEF ELEVATIONS AND CONDITIONS PRIOR TO FABRICATION AND INSTALLATION OF WOOD ROOF TRUSSES. IF CONDITIONS VARY, NOTIFY SEOR
EXISTING WOOD WALL
EXISTING BRICK VENEER
EXISTING BRICK RELIEF ANGLE
2x4 BLOCKING BETWEEN EA TRUSS
WOOD ROOF SHEATHING (SEE PLAN)
TRUSS BEARING (SEE PLAN)
PRE-ENG WOOD ROOF TRUSS W/ SIMPSON UPLIFT TIE AT TRUSS BEARING POINTS. SEE TRUSS TIE DOWN SCHEDULE ON PLAN FOR REQUIRED UPLIFT TIES.
EXISTING STEEL BEAM

WOOD ROOF FRAMING AT EXISTING STEEL BEAM - SECTION

SCALE: 3/4" = 1'-0"

1
S602


FIELD VERIFY WOOD WALL AND BRICK RELIEF ELEVATIONS AND CONDITIONS PRIOR TO FABRICATION AND INSTALLATION OF WOOD ROOF TRUSSES. IF CONDITIONS VARY, NOTIFY SEOR
EXISTING BRICK VENEER
EXISTING BRICK RELIEF ANGLE
2x4 BLOCKING BETWEEN EA TRUSS
WOOD ROOF SHEATHING (SEE PLAN)
TRUSS BEARING (SEE PLAN)
PRE-ENG WOOD ROOF TRUSS W/ SIMPSON UPLIFT TIE AT TRUSS BEARING POINTS. SEE TRUSS TIE DOWN SCHEDULE ON PLAN FOR REQUIRED UPLIFT TIES.
EXISTING WOOD WALL

WOOD ROOF FRAMING AT EXISTING WALL - SECTION

SCALE: 3/4" = 1'-0"

2
S602

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No. SE000165
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Chad A Forster
2026.08.18
17:23:46-04'00'

CONSTRUCTION DOCUMENTS
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CHECKED:
APPROVED: Approver

FILENAME

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CLIENT PROJECT NUMBER

WOOD ROOF FRAMING DETAILS

DRAWING NUMBER
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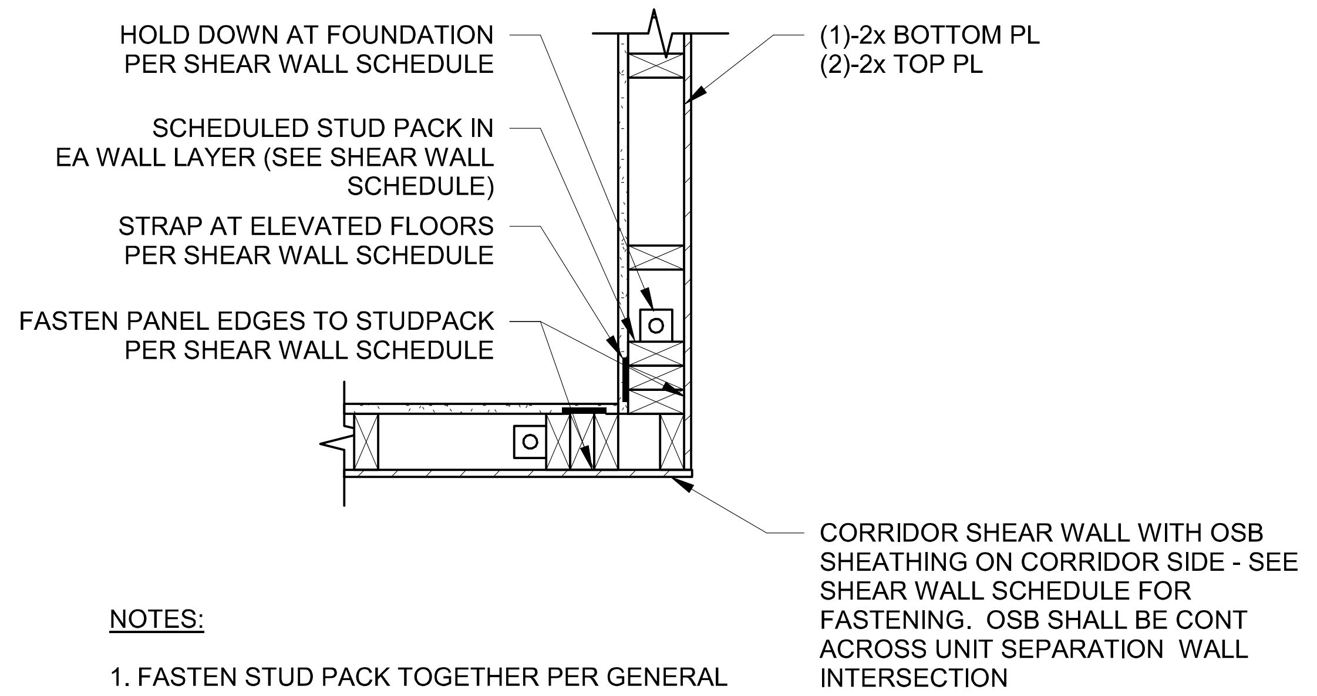

HOLD DOWN AT FOUNDATION PER SHEAR WALL SCHEDULE
SCHEDULED STUD PACK IN EA WALL LAYER (SEE SHEAR WALL SCHEDULE)
STRAP AT ELEVATED FLOORS PER SHEAR WALL SCHEDULE
FASTEN PANEL EDGES TO STUDPACK PER SHEAR WALL SCHEDULE
(1)-2x BOTTOM PL
(2)-2x TOP PL
CORRIDOR SHEAR WALL WITH OSB SHEATHING ON CORRIDOR SIDE - SEE SHEAR WALL SCHEDULE FOR FASTENING. OSB SHALL BE CONT ACROSS UNIT SEPARATION WALL INTERSECTION

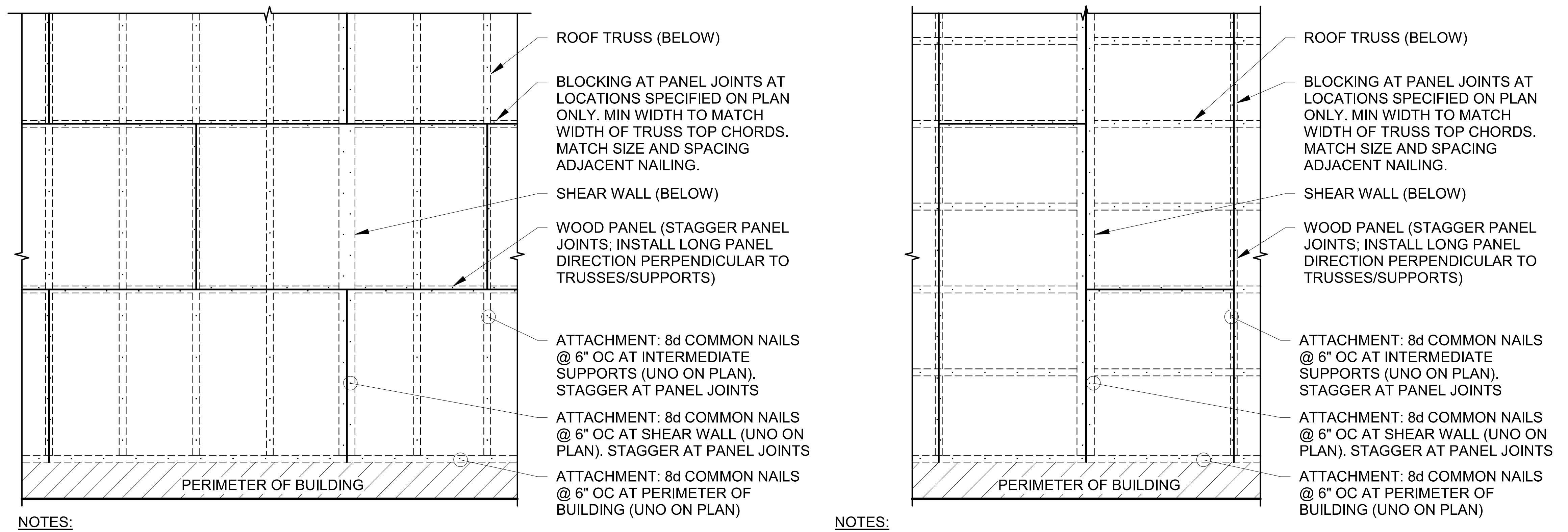
NOTES:

1. FASTEN STUD PACK TOGETHER PER GENERAL STRUCTURAL WOOD NOTES ON S006).

TYPICAL UNIT SEPARATION/CORRIDOR SHEAR WALL INTERSECTION - PLAN

1 S611

SCALE: 1" = 1'-0"


PERIMETER OF BUILDING
ROOF TRUSS (BELOW)
BLOCKING AT PANEL JOINTS AT LOCATIONS SPECIFIED ON PLAN ONLY. MIN WIDTH TO MATCH WIDTH OF TRUSS TOP CHORDS. MATCH SIZE AND SPACING ADJACENT NAILING.
SHEAR WALL (BELOW)
WOOD PANEL (STAGGER PANEL JOINTS; INSTALL LONG PANEL DIRECTION PERPENDICULAR TO TRUSSES/SUPPORTS)
ATTACHMENT: 8d COMMON NAILS @ 6" OC AT INTERMEDIATE SUPPORTS (UNO ON PLAN). STAGGER AT PANEL JOINTS
ATTACHMENT: 8d COMMON NAILS @ 6" OC AT SHEAR WALL (UNO ON PLAN). STAGGER AT PANEL JOINTS
ATTACHMENT: 8d COMMON NAILS @ 6" OC AT PERIMETER OF BUILDING (UNO ON PLAN)
PERIMETER OF BUILDING
ROOF TRUSS (BELOW)
BLOCKING AT PANEL JOINTS AT LOCATIONS SPECIFIED ON PLAN ONLY. MIN WIDTH TO MATCH WIDTH OF TRUSS TOP CHORDS. MATCH SIZE AND SPACING ADJACENT NAILING.
SHEAR WALL (BELOW)
WOOD PANEL (STAGGER PANEL JOINTS; INSTALL LONG PANEL DIRECTION PERPENDICULAR TO TRUSSES/SUPPORTS)
ATTACHMENT: 8d COMMON NAILS @ 6" OC AT INTERMEDIATE SUPPORTS (UNO ON PLAN). STAGGER AT PANEL JOINTS
ATTACHMENT: 8d COMMON NAILS @ 6" OC AT SHEAR WALL (UNO ON PLAN). STAGGER AT PANEL JOINTS
ATTACHMENT: 8d COMMON NAILS @ 6" OC AT PERIMETER OF BUILDING (UNO ON PLAN)

NOTES:

1. SEE FLOOR AND ROOF SHEATHING NOTES ON S006 FOR ADDITIONAL INFORMATION.

FRAMING PARALLEL TO SHEAR WALL

NOTES:

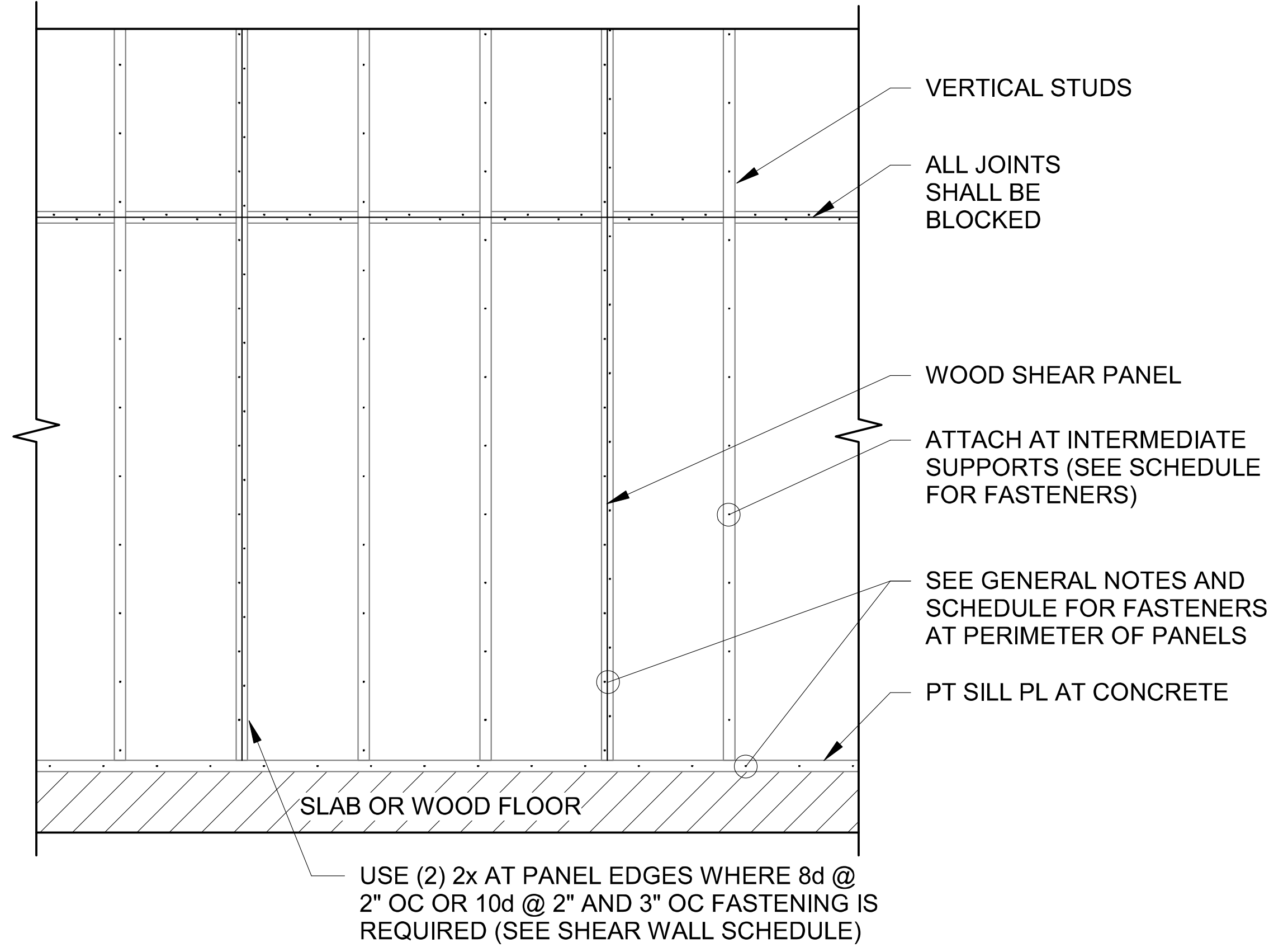
1. SEE FLOOR AND ROOF SHEATHING NOTES ON S006 FOR ADDITIONAL INFORMATION.

FRAMING PERPENDICULAR TO SHEAR WALL

TYPICAL ROOF DIAPHRAGM CONNECTION - PLAN

2 S611

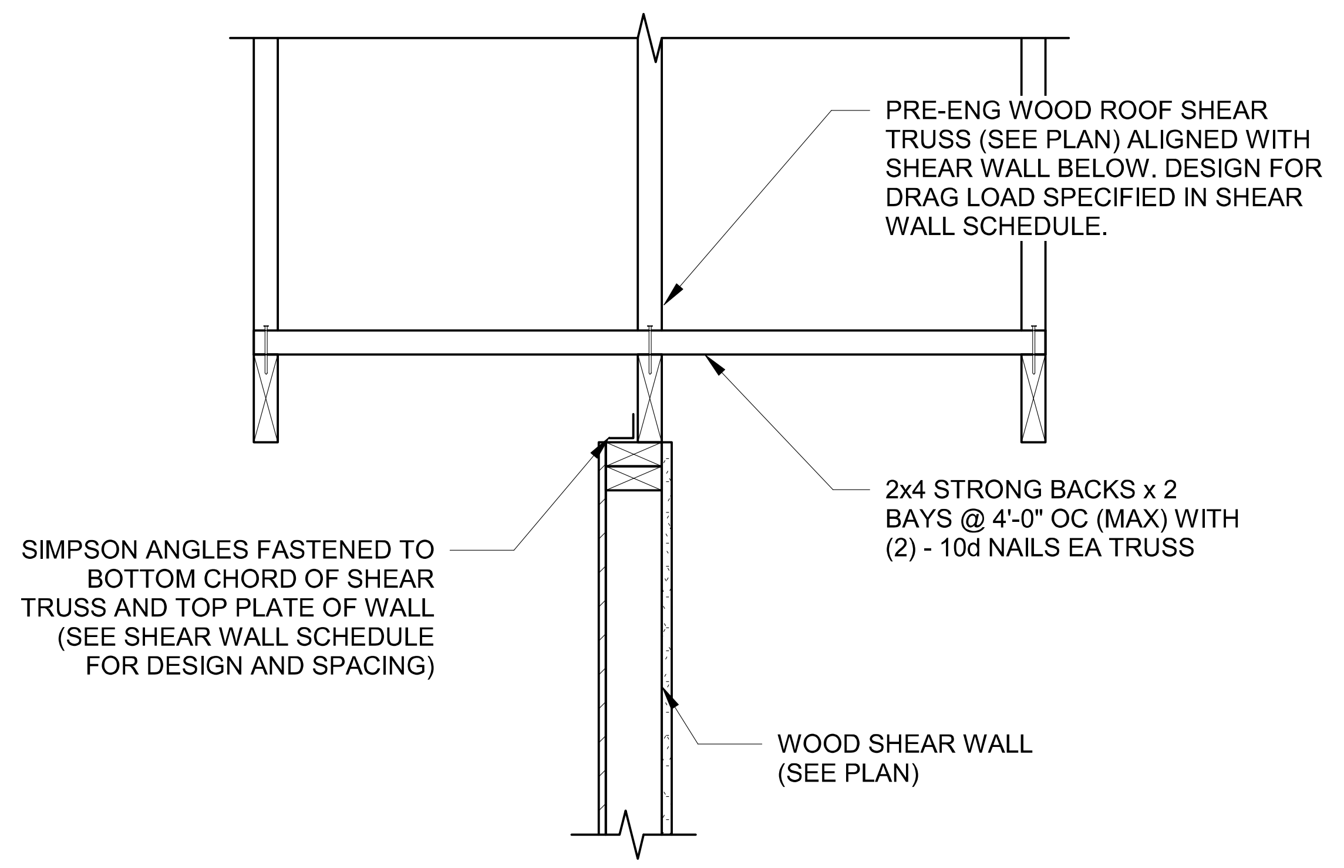
SCALE: 1/2" = 1'-0"


VERTICAL STUDS
ALL JOINTS SHALL BE BLOCKED
WOOD SHEAR PANEL
ATTACH AT INTERMEDIATE SUPPORTS (SEE SCHEDULE FOR FASTENERS)
SEE GENERAL NOTES AND SCHEDULE FOR FASTENERS AT PERIMETER OF PANELS
PT SILL PL AT CONCRETE
SLAB OR WOOD FLOOR
USE (2) 2x AT PANEL EDGES WHERE 8d @ 2" OC OR 10d @ 2" AND 3" OC FASTENING IS REQUIRED (SEE SHEAR WALL SCHEDULE)

TYPICAL SHEAR WALL PANEL CONNECTION - ELEVATION

3 S611

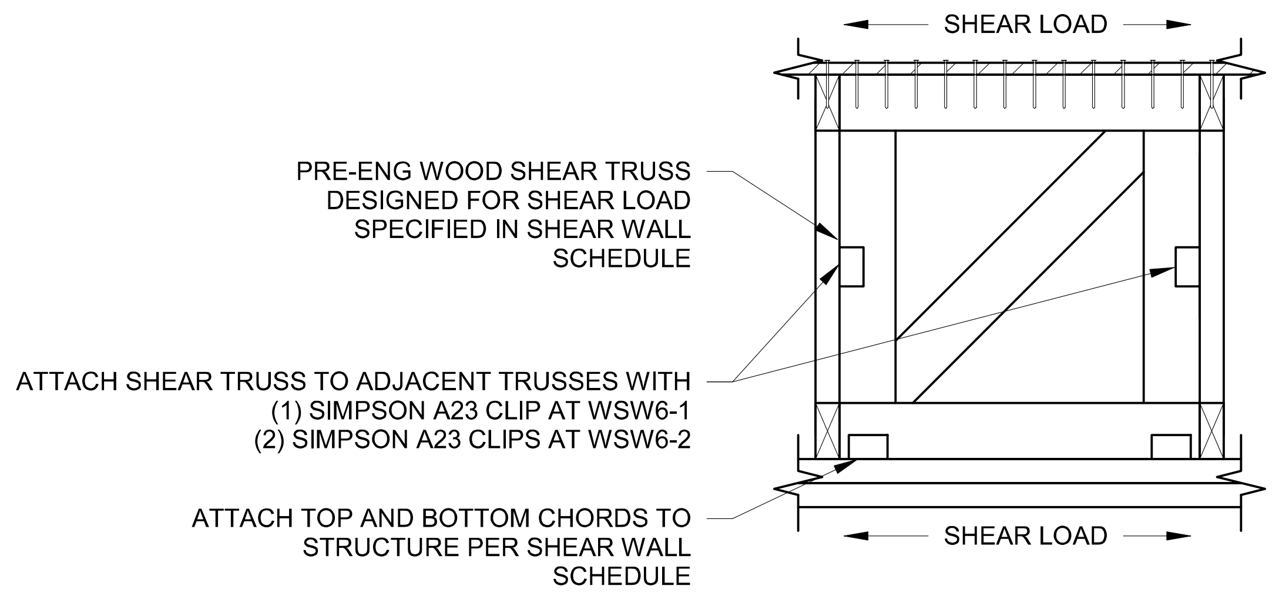
SCALE: 1/2" = 1'-0"


PRE-ENG WOOD ROOF SHEAR TRUSS (SEE PLAN) ALIGNED WITH SHEAR WALL BELOW. DESIGN FOR DRAG LOAD SPECIFIED IN SHEAR WALL SCHEDULE.
2x4 STRONG BACKS x 2 BAYS @ 4'-0" OC (MAX) WITH (2) - 10d NAILS EA TRUSS
SIMPSON ANGLES FASTENED TO BOTTOM CHORD OF SHEAR TRUSS AND TOP PLATE OF WALL (SEE SHEAR WALL SCHEDULE FOR DESIGN AND SPACING)
WOOD SHEAR WALL (SEE PLAN)

TYPICAL SHEAR TRUSS TO SHEAR WALL CONNECTIONS - SECTION

4 S611

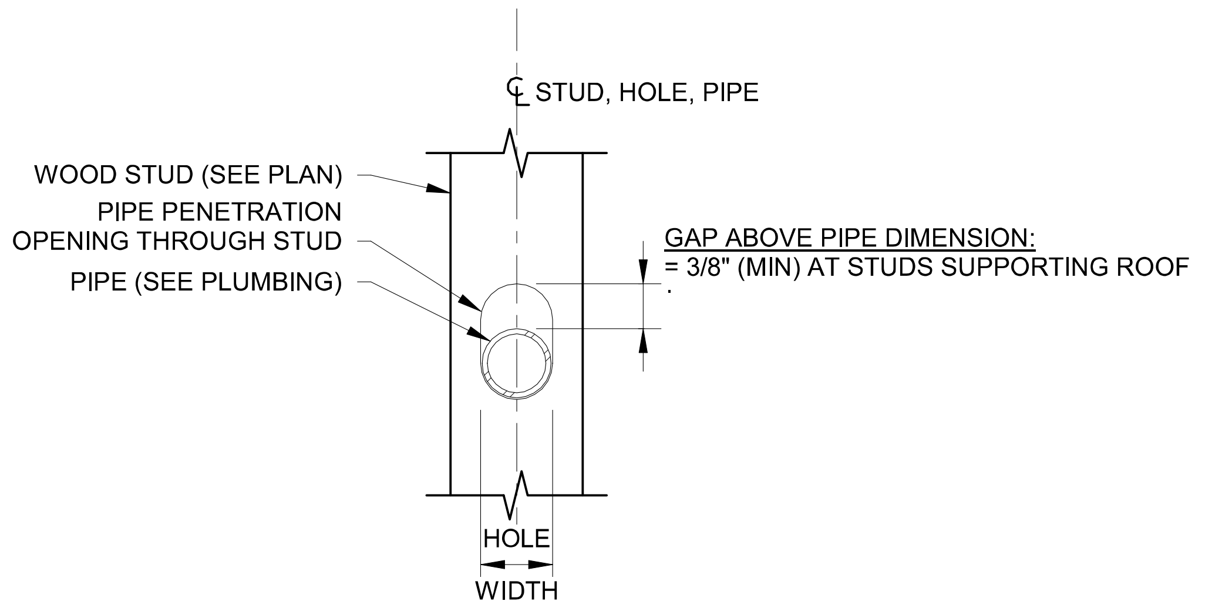
SCALE: 1" = 1'-0"


SHEAR LOAD
PRE-ENG WOOD SHEAR TRUSS DESIGNED FOR SHEAR LOAD SPECIFIED IN SHEAR WALL SCHEDULE
ATTACH SHEAR TRUSS TO ADJACENT TRUSSES WITH (1) SIMPSON A23 CLIP AT WSW6-1 (2) SIMPSON A23 CLIPS AT WSW6-2
ATTACH TOP AND BOTTOM CHORDS TO STRUCTURE PER SHEAR WALL SCHEDULE
SHEAR LOAD

TYPICAL SHEAR TRUSS FASTENING - SECTION

5 S611

SCALE: 1" = 1'-0"


℄ STUD, HOLE, PIPE
WOOD STUD (SEE PLAN)
PIPE PENETRATION OPENING THROUGH STUD
PIPE (SEE PLUMBING)
GAP ABOVE PIPE DIMENSION: = 3/8" (MIN) AT STUDS SUPPORTING ROOF
HOLE WIDTH

NOTES:

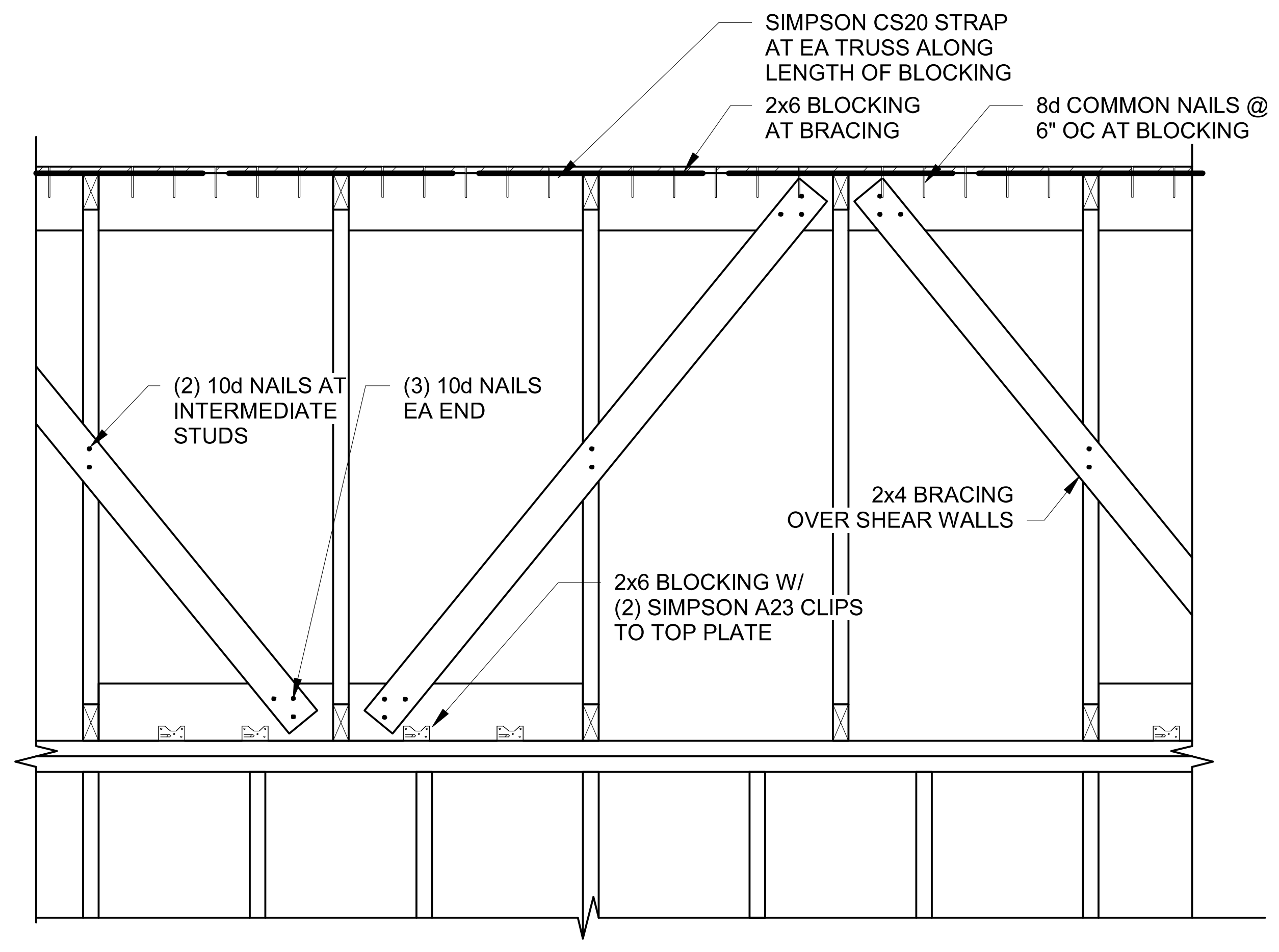
1 LOAD-BEARING WALL STUDS SHALL BE DOUBLED FROM COUNT INDICATED IN WALL STUD SCHEDULE (SEE PLAN)

2 'HOLE WIDTH' SHALL BE 1 3/4" (MAX) AT 2x4 STUDS AND 3" (MAX) AT 2X6 STUDS

PIPE PENETRATION THROUGH WOOD STUD - DETAIL

6 S611

SCALE: 1 1/2" = 1'-0"


SIMPSON CS20 STRAP AT EA TRUSS ALONG LENGTH OF BLOCKING
2x6 BLOCKING AT BRACING
8d COMMON NAILS @ 6" OC AT BLOCKING
(2) 10d NAILS AT INTERMEDIATE STUDS
(3) 10d NAILS EA END
2x4 BRACING OVER SHEAR WALLS
2x6 BLOCKING W/ (2) SIMPSON A23 CLIPS TO TOP PLATE

NOTE:
CROSS BRACING TO ALIGN WITH SHEAR WALLS BELOW.

TYPICAL CROSS BRACING AT SHEAR WALL - SECTION

7 S611

SCALE: 3/4" = 1'-0"

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900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

No. SE000165
STRUCTURAL
CHAD FORSTER
Chad A Forster
2026.08.18
17:23:47-04'00'

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: ARB
DRAWN: ALK
CHECKED: CAF
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

PES STRUCTURAL ENGINEERS
ADDRESS 1852 Century Place NE, Suite 201, Atlanta Georgia 30345
PHONE 770.457.5923 **WEB** www.pesengineers.com
PES PROJECT NUMBER: 0250683
PES GEORGIA LICENSE NUMBER: PEF000799
EXPIRATION DATE: 6/30/2028

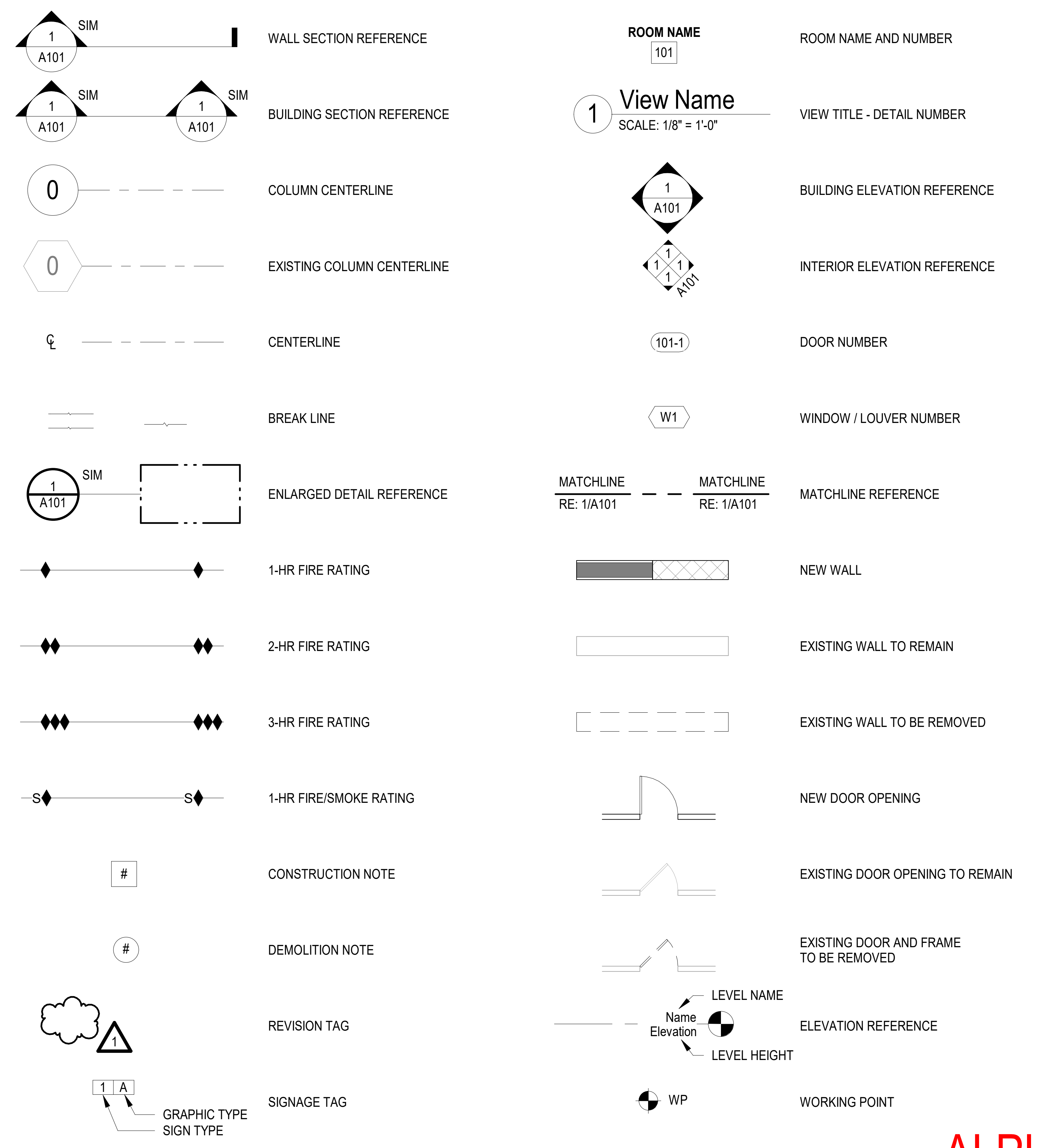
WOOD SHEAR WALL AND DIAPHRAGM DETAILS

DRAWING NUMBER
S611

MATERIALS LEGEND:

- ▨ FACE BRICK
- ▨ CONCRETE MASONRY UNIT
- ▦ FOAM PLASTIC BOARD INSULATION
- ▨ BLANKET INSULATION
- ☒ CONTINUOUS WOOD
- ◺ SHIM
- ▨ FINISHED WOOD
- ▨ GYPSUM BOARD / GROUT
- ▨ CONCRETE OR PRECAST CONCRETE
- ▥ ACOUSTICAL CEILING TILE OR PANEL
- ▦ MASONRY IN ELEVATION
- ▨ PLYWOOD
- ▨ GRAVEL
- ▨ FOAMED IN PLACE INSULATION
- ▨ STEEL
- ▦ EARTH
- ▨ SOLID SURFACE / CAST STONE
- ▨ STONE

DRAWING SYMBOLS:

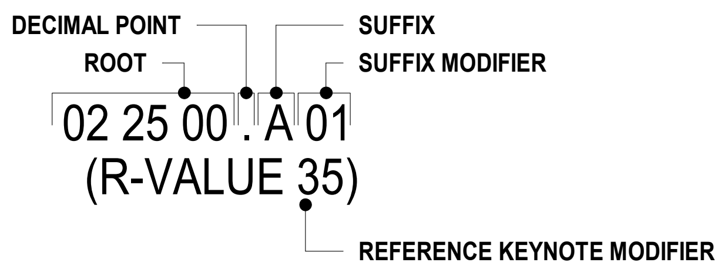


ABBREVIATIONS

A/C	AIR CONDITION
ACP	ACCOUSTICAL CEILING PANEL
ACS DR	ACCESS DOOR
ACS PNL	ACCESS PANEL
ACT	ACCOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZE
ANT	ANTENNA
AOR	AREA OF REFUGE
APPROX	APPROXIMATELY
ARCH	ARCHITECT
ASSY	ASSEMBLY
AV	AUDIO VISUAL
BD	BOARD
BLDG	BUILDING
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOFING
C TO C	CENTER TO CENTER
CAB	CABINET
CB	CATCH BASIN
CDCT	CIRCULAR DUCT
CFMF	COLD-FORMED METAL FRAMING
CG	CORNER GUARD
CGFSU	CERAMIC GLAZED STRUCTURAL FACING UNITS
CH	COAT HOOK
CH BD	CHALK BOARD
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLOS	CLOSURE
CLR	CLEAR
CLRM	CLASSROOM
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONSTR	CONSTRUCTION
CONT	CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPRS	COMPRESSIBLE
CPT	CARPET
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CUST	CUSTODIAN
D	DEEP/DEPTH
DBL	DOUBLE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DPTN	DEMOUNTABLE PARTITION
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
E	EAST
EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENCL	ENCLOSURE
EP	ELECTRICAL PANEL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	ET CETERA
EWC	ELECTRIC WATER COOLER
EXH FN	EXHAUST FAN
EXP	EXPANSION/EXPOSED
EXST	EXISTING
EXT	EXTERIOR
EXTRU	EXTRUSION
F/F	FACE TO FACE
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FACE
FHC	FIRE HOSE CABINET
FIN	FINISH
FIN FLR	FINISHED FLOOR
FLASH	FLASHING
FLR	FLOOR
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FR	FRAME
FRG	FIBER REINFORCED GYPSUM
FSS	FOLDING SHOWER SEAT
FT	FEET/FOOT
FURG	FURRING
G	NATURAL GAS
GA	GAGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GDR	GUARD RAIL
GFCI	GROUND FAULT CIRCUIT INERRUPTER
GL	GLASS
GLZ CMU	GLAZED CONCRETE MASONRY UNIT
GYP	GYPSUM
GYP BD	GYPSUM WALLBOARD
H	HIGH
HB	HOSE BIBB
HC	HANDICAP
HD	HAND DRYER
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPC	HIGH PERFORMANCE COATING
HPT	HIGH POINT
HS	HOT STACK
HT	HEIGHT
HVAC	HEATING
HYD	HYDRANT
ID	INSIDE DIAMETER
IF	INSIDE FACE
INCL	INCLUDED
INSUL	INSULATION
INSUL PNL	INSULATED METAL PANEL
INT	INTERIOR
JAN	JANITOR
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LF	LINEAR FEET (FOOT)
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LIN	LINEAR
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNDSCP	LANDSCAPE
LOC	LOCATION
LPT	LOW POINT
LVT	LUXURY VINYL TILE
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOD BIT	MODIFIED BITUMEN
MTD	MOUNTED
MTL	METAL
MTLP	METAL PARTITION
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
OH	OVERHANG
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OS	OCCUPANCY SENSOR
P	PIPE
PCC	PRECAST CONCRETE
PEJ	PREMOLDED EXPANSION JOINT
PERF	PERFORATED
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PORC	PORCELAIN
PP	POWER POLE
PREF	PREFINISH
PREFAB	PREFABRICATE
PT	PAINT
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
QTY	QUANTITY
R	RADIUS/RISER/THERMAL RESISTANCE
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RECPT	RECEPTACLE
REF	REFERENCE/REFRIGERATOR
REINF	REINFORCE
REQD	REQUIRED
RESIL	RESILIENT
RET	RETURN
RFG	ROOFING
RH	ROOF HATCH/RIGHT HAND
RHR	RIGHT HAND REVERSE
RL	ROOF LEADER
RM	ROOM
RO	ROUGH OPENING
RR	RAILROAD
RTU	ROOF TOP UNIT
RV	ROOF VENT
S	SOUTH
SA	SUPPLY AIR
SC	SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SD	SOAP DISPENSER
SECT	SECTION
SF	SQUARE FOOT (FEET)
SHR	SHOWER
SHT	SHEET
SHTHG	SHEATHING
SHV	SHELVING
SIM	SIMILAR
SLNT	SEALANT
SND	SANITARY NAPKIN DISPENSER
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SP	STAND PIPE
SP FIN	SPECIAL FINISH
SPEC	SPECIFICATION
SQ	SQUARE
SS	STORM SEWER
SSM	SOLID SURFACE MATERIAL
SST	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPEND
SV	SHEET VINYL/SMOKE VENT
SYMM	SYMMETRICAL
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TOWEL BAR
TD	TRENCH DRAIN/TOWEL DISPENSER
TDR	TOWEL DISPENSER/RECEPTACLE
TEL	TELEPHONE
TER	TERRAZZO
THK	THICKNESS
TK BD	TACK BOARD
TOC	TOP OF CURB/TOP OF CONCRETE
TOJ	TOP OF JOIST
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOWEL PIN
TPH	TOILET PAPER HOLDER
TPO	THERMOPLASTIC POLYOLEFIN
TPTN	TOILET PARTITION
TRTD	TREATED
TV	TELEVISION
TYP	TYPICAL
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UNFIN	UNFINISH
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UTIL	UTILITY
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VP	VENT PIPE
VS	VACANCY SENSOR
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WEST/WIDE
W/	WITH
W/O	WITHOUT
WBL	WOOD BLOCKING
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER
WWR	WELDED WIRE REINFORCEMENT

ALPHA BLDG SET 09-01-2026

REFERENCE KEYNOTE LEGEND:



ROOT:
USE SAME SPECIFICATION NUMBER THAT REFERENCES ITEM

DECIMAL POINT:
SEPARATES ROOT FROM SUFFIX

SUFFIX:
USER DEFINED SINGLE ALPHA CHARACTER
(DO NOT USE THE LETTERS "I" OR "O"

SUFFIX MODIFIER:
OPTIONAL USER-DEFINED TWO-DIGIT NUMBER

REFERENCE KEYNOTE MODIFIER:
OPTIONAL TEXT NOTE LOCATED BELOW REFERENCE KEYNOTE. ONLY APPEARS IN DRAWING BLOCKS, CONTAINED WITHIN PARENTHESIS

1

BUILDING CODE INFORMATION:

PROJECT LOCATION: NEWTON COUNTY WATER AND SEWERAGE AUTHORITY
11325 BROWN BRIDGE ROAD
COVINGTON, GA 30016

PROJECT SCOPE:
THIS PROJECT IS AN ADDITION TO AND RENOVATION OF AN EXISTING ADMINISTRATION BUILDING. THE ADDITION WILL INCLUDE A NEW PUBLIC MEETING SPACE AND OFFICES FOR STAFF.

BUILDING AND FIRE CODES:
2026 BUILDING CODE OF GEORGIA INCLUDE:

2024 INTERNATIONAL BUILDING CODE (IBC) w/GEORGIA AMENDMENTS
2024 INTERNATIONAL EXISTING BUILDING CODE (IEBC) w/GEORGIA AMENDMENTS
2024 INTERNATIONAL PLUMBING CODE (IPC) w/GEORGIA AMENDMENTS
2024 INTERNATIONAL MECHANICAL CODE (IMC) w/GEORGIA AMENDMENTS
2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2023 NFPA 70, NATIONAL ELECTRIC CODE (NEC) w/GEORGIA AMENDMENTS
2010 ADA w/ GEORGIA AMENDMENTS

OCCUPANCY CLASSIFICATION (IBC CH. 3) NOTE: BUILDING FULLY SPRINKLERED
MIXED USE / SEPARATED OCCUPANCY (IBC 508.3)
GROUP A-3 ASSEMBLY / GROUP B BUSINESS

OCCUPANCY SEPARATION (IBC CH.5)
GROUP A-3 ASSEMBLY TO GROUP B BUSINESS:
ONE-HOUR REQUIRED SEPARATION (IBC TABLE 508.3.3)

TYPE OF CONSTRUCTION: ADDITION: TYPE IIB
TYPE IIIB LOBBY & BREAK ROOM ONLY
EXISTING: TYPE IIIB

FULLY SPRINKLERED: YES

FIRE ALARM: YES

EXISTING BUILDING:
CONTINUATION OF EXISTING USE: YES
CHANGE OF USE: ADDING ASSEMBLY FUNCTION TO BUSINESS USE
CLASSIFICATION OF WORK: LEVEL 2

BUILDING HEIGHT AND AREA:
ACTUAL BUILDING HEIGHT: 35' (EXISTING) 29' (ADDITION) , 2 STORIES
ALLOWABLE BUILDING HEIGHT: 75' SF, 4 STORIES

ACTUAL BUILDING AREA: 8,974 SF (EXISTING) + 8,423 SF (ADDITION) = 17,397 SF
ALLOWABLE BUILDING AREA: 109,250 SF
PER TABLE 506.2 $A_a = A_t+(NS \times I_f)$
109,250 SF = 92,000+(23,000 x .75)

MAXIMUM EXIT ACCESS TRAVEL DISTANCE: 175 FT
MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE: 75 FT
MAXIMUM DEAD ENDS IN CORRIDORS: 50 FT

GENERAL NOTES:

1. THE PROJECT SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND WILL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND GENERAL NOTES. IN CASES, IF ANY, WHERE REQUIREMENTS INDICATED ON THE ARCHITECTURAL DRAWINGS DIFFER FROM THE SPECIFICATIONS, NOTIFY THE ARCHITECT.
2. UNLESS OTHERWISE NOTED, DETAILS, SECTIONS AND NOTES CONTAINED IN THE ARCHITECTURAL CONTRACT DOCUMENTS WILL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS EVEN IF NOT EXPLICITLY REFERENCED.
3. DEFICIENT WORK AND/OR WORK NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR WILL REIMBURSE THE PARTIES REQUIRED FOR PERFORMING THE DESIGN SERVICES ARISING FROM DEFICIENT WORK, REVIEW OF MODIFICATIONS/CONTRACTOR SUBSTITUTION, OR EXPEDITING OF SUBMITTALS.
4. COST OF INVESTIGATION AND/OR REDESIGN INCURRED BY THE ARCHITECT DUE TO CONTRACTOR ERRORS WILL BE AT THE CONTRACTOR'S EXPENSE.
5. VERIFY IN THE FIELD (VIF) ALL EXISTING JOB CONDITIONS, REVIEW ALL CONTRACT DRAWINGS, AND VERIFY DIMENSIONS AND ELEVATIONS NOTED IN THE CONTRACT DOCUMENTS PRIOR TO THE START OF WORK.
6. USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE THESE DRAWINGS OR USE DIMENSIONS OBTAINED FROM ELECTRONIC DRAWING OR MODEL FILES, IF PROVIDED.

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION
DOCUMENTS
07/01/2026

NCWSA OFFICE
ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

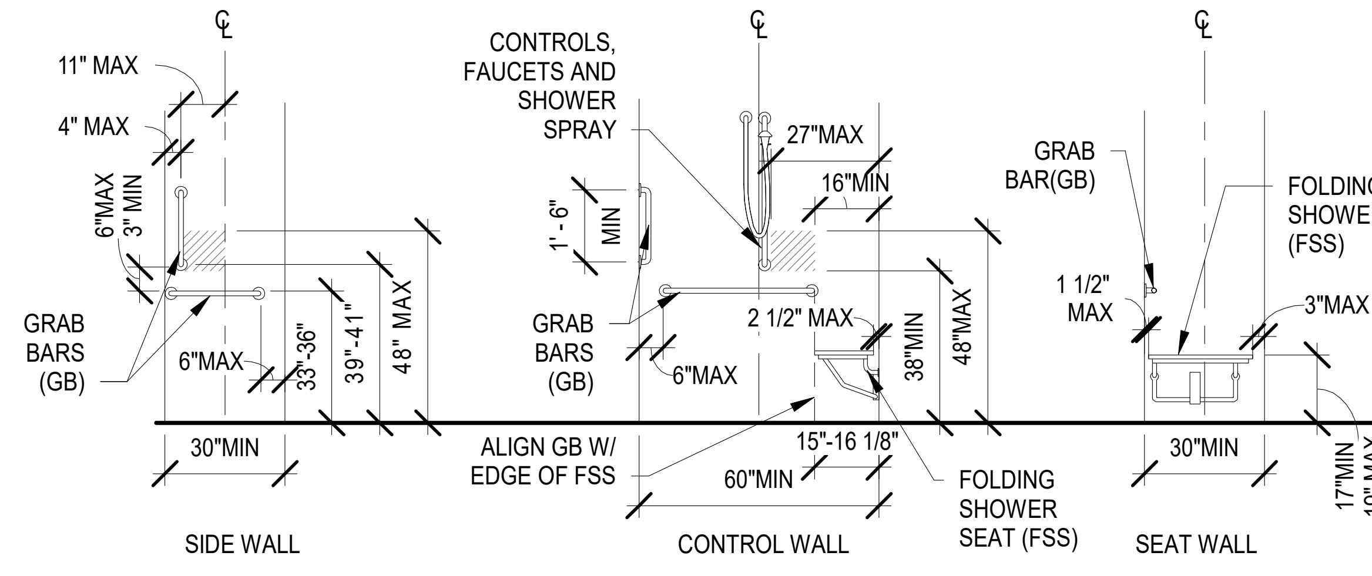
DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver
FILENAME
BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

TITLES & SYMBOLS

DRAWING NUMBER
A001

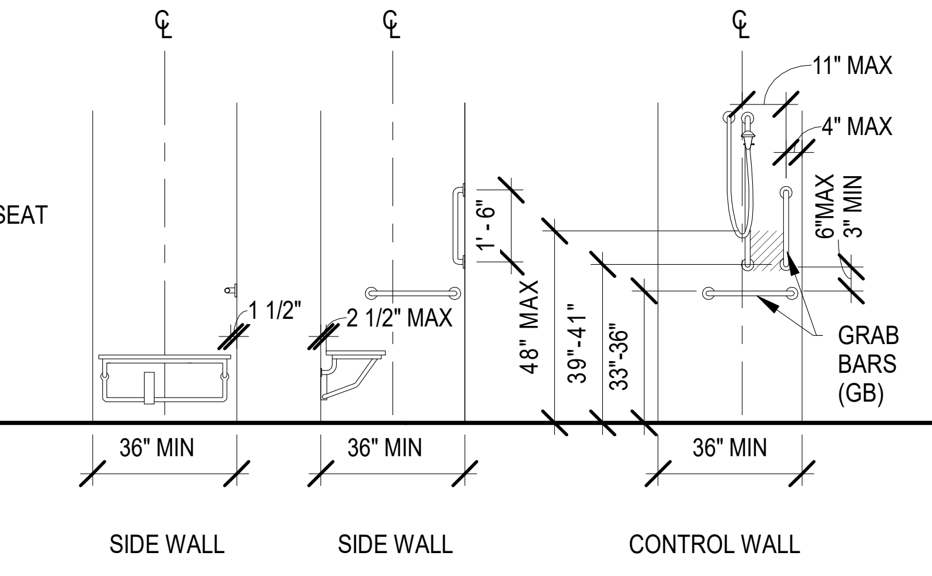
Plot Date: 8/19/2026 3:18:00 PM Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

TYP FIXTURE MOUNTING HEIGHTS:



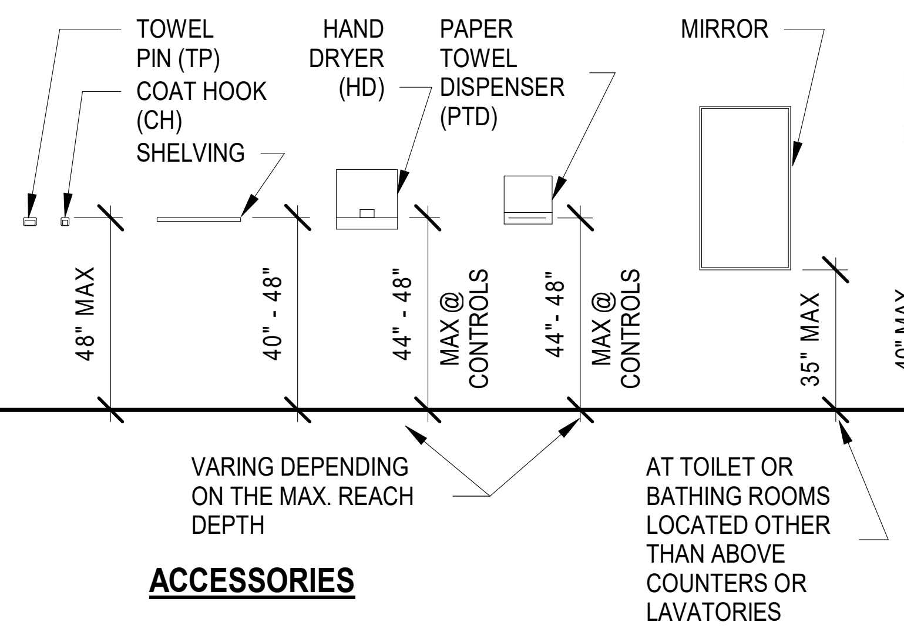
ROLL- IN SHOWER

*SEE PLAN FOR ACTUAL DIMENSIONS

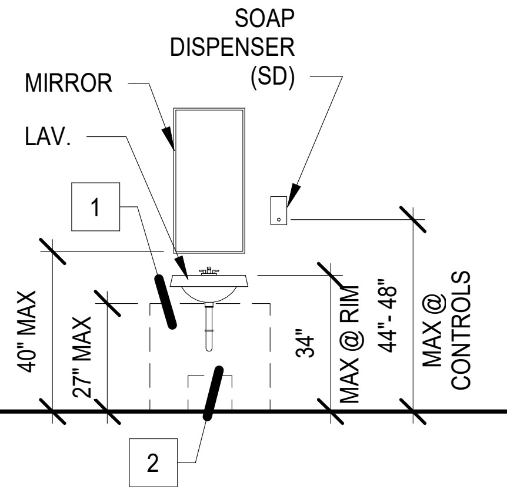


TRANSFER SHOWER

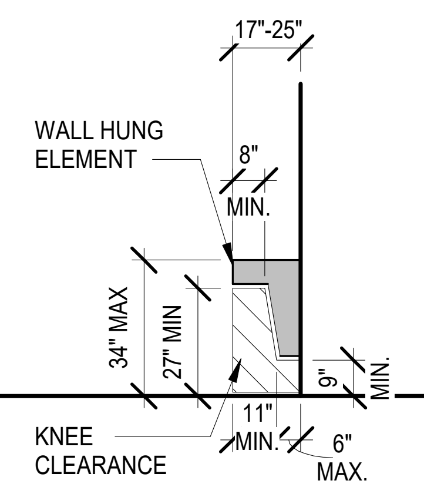
*SEE PLAN FOR ACTUAL DIMENSIONS


TOWEL PIN (TP)
COAT HOOK (CH)
SHELVING
HAND DRYER (HD)
PAPER TOWEL DISPENSER (PTD)
MIRROR
48" MAX
40" - 48"
44" - 48"
MAX @ CONTROLS
44"- 48"
MAX @ CONTROLS
35" MAX
VARING DEPENDING ON THE MAX. REACH DEPTH
AT TOILET OR BATHING ROOMS LOCATED OTHER THAN ABOVE COUNTERS OR LAVATORIES

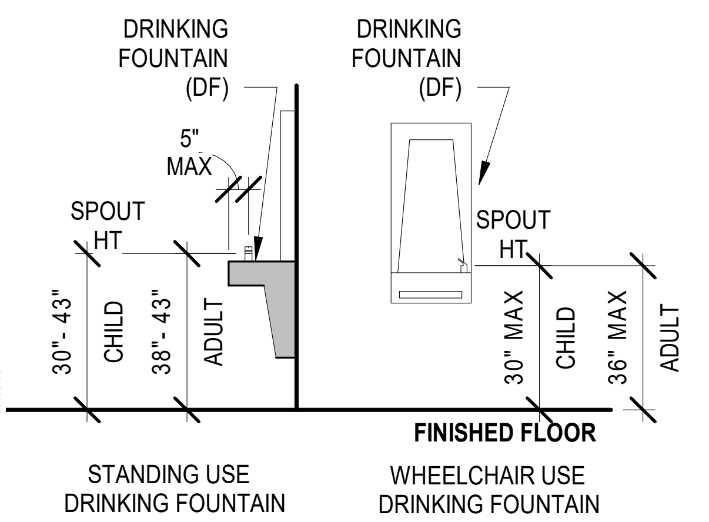
ACCESSORIES



LAVATORY



KNEE CLEARANCE



DRINKING FOUNTAIN

GENERAL NOTES:

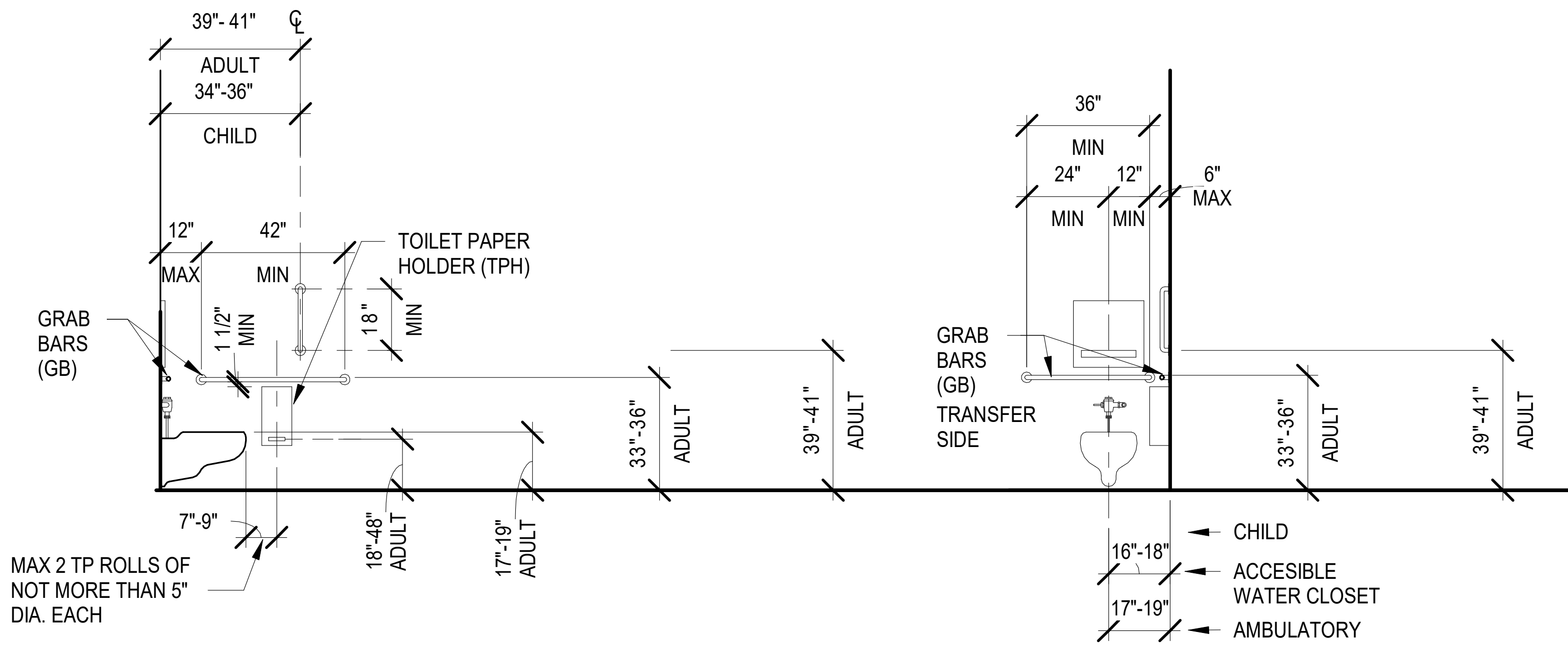
1. DIMENSIONS FROM THE FINISHED FLOOR SHALL BE TAKEN FROM THE LEADING EDGE/FACE SHOWN TO ACCOUNT FOR SLOPE IN FLOOR
2. WATER CLOSET HEIGHT IS TO BE MEASURED FROM TOP OF SEAT, SEATS SHALL NOT BE SPRUNG TO RETURN TO THE LIFTED POSITION

KEYNOTES:

1 27"HX30"W MIN KNEE CLEARANCE AT FRONT EDGE

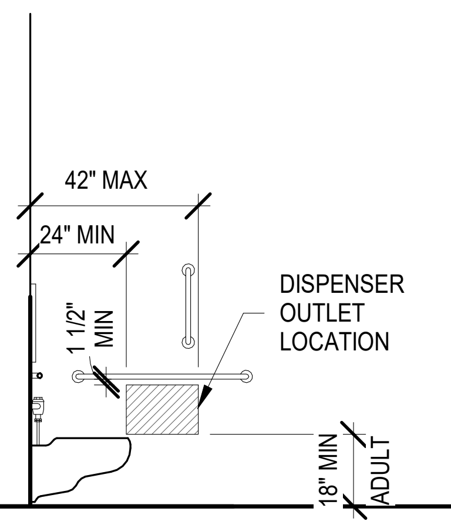
2 9"HX11"D MIN KNEE CLEARANCE DEPTH, FRONT OF LAV TO TRAP (8"H WHEN 27"D MIN) THE DIP OF THE OVERFLOW SHALL NOT BE CONSIDERED

3 24"HX30"W MIN KNEE CLEARANCE AT FRONT EDGE

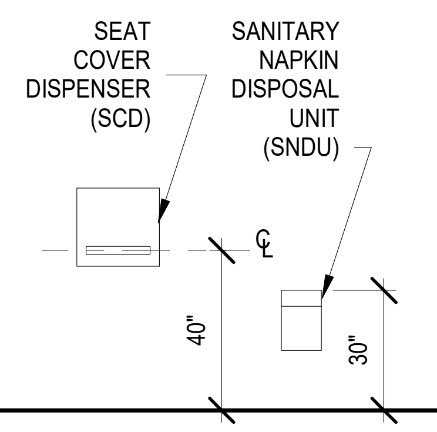


ACCESSIBLE AND AMBULATORY WATER CLOSET*

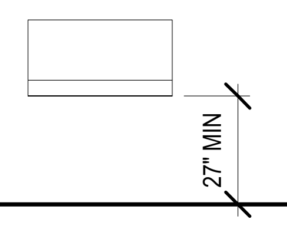
*REAR WALL GRAB BAR NOT REQUIRED IN AMBULATORY COMPARTMENT



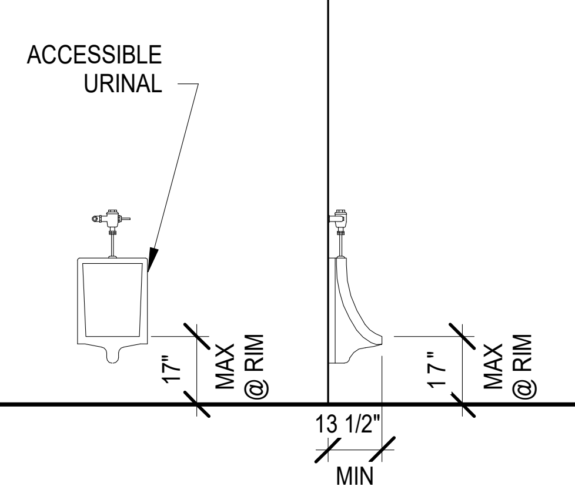
DISPENSER OUTLET LOCATION


SEAT COVER DISPENSER (SCD)
SANITARY NAPKIN DISPOSAL UNIT (SNDU)
40"
30"

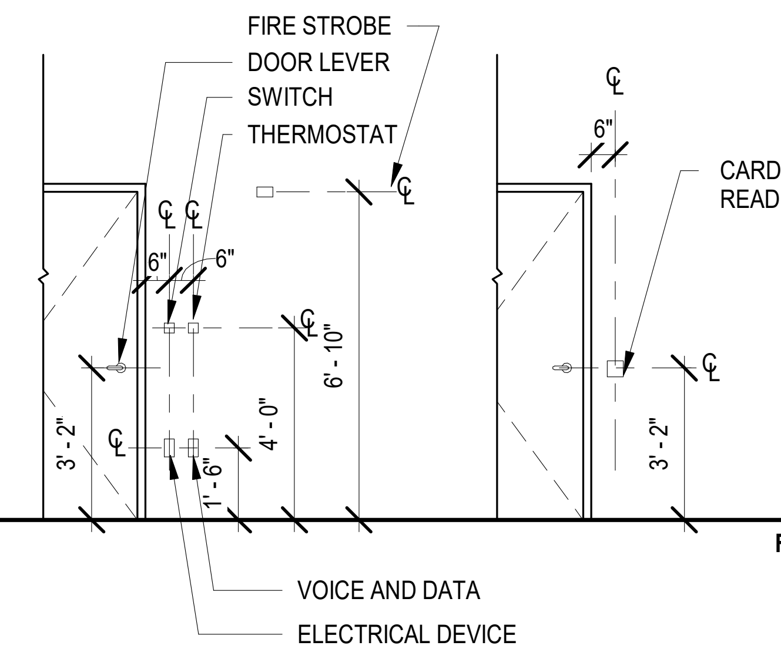
ACCESSORIES WATER CLOSET



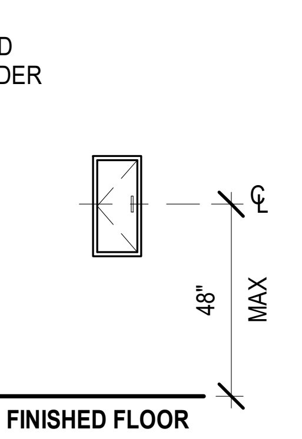
DIAPER CHANGING TABLE



URINAL

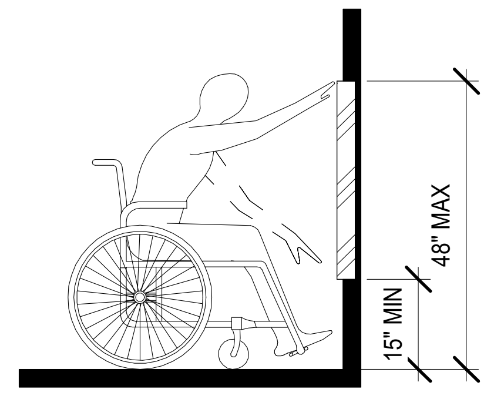


DOOR SIGNS , OUTLETS AND SWITCHES

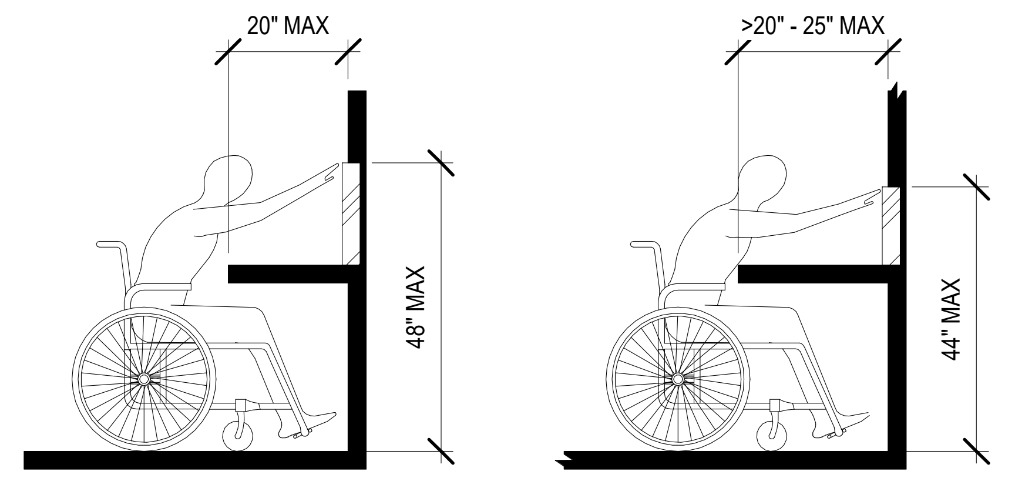


FIRE EXTINGUISHER CABINET

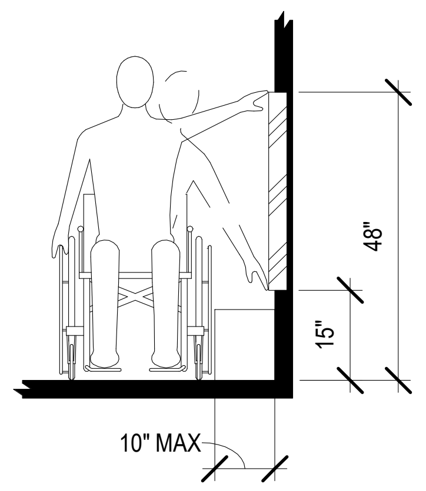
ADA REACH RANGE FIGURES:



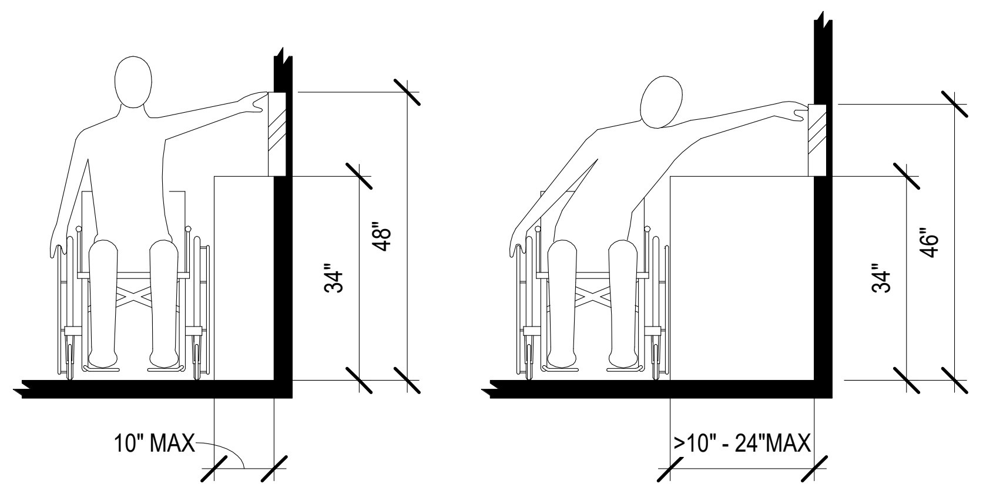
UNOBSTRUCTED FORWARD REACH



OBSTRUCTED HIGH FORWARD REACH



UNOBSTRUCTED SIDE REACH



OBSTRUCTED HIGH SIDE REACH

ALPHA BLDG SET 09-01-2026

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

MACK A. CUNNINGHAM
7/1/2026

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07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

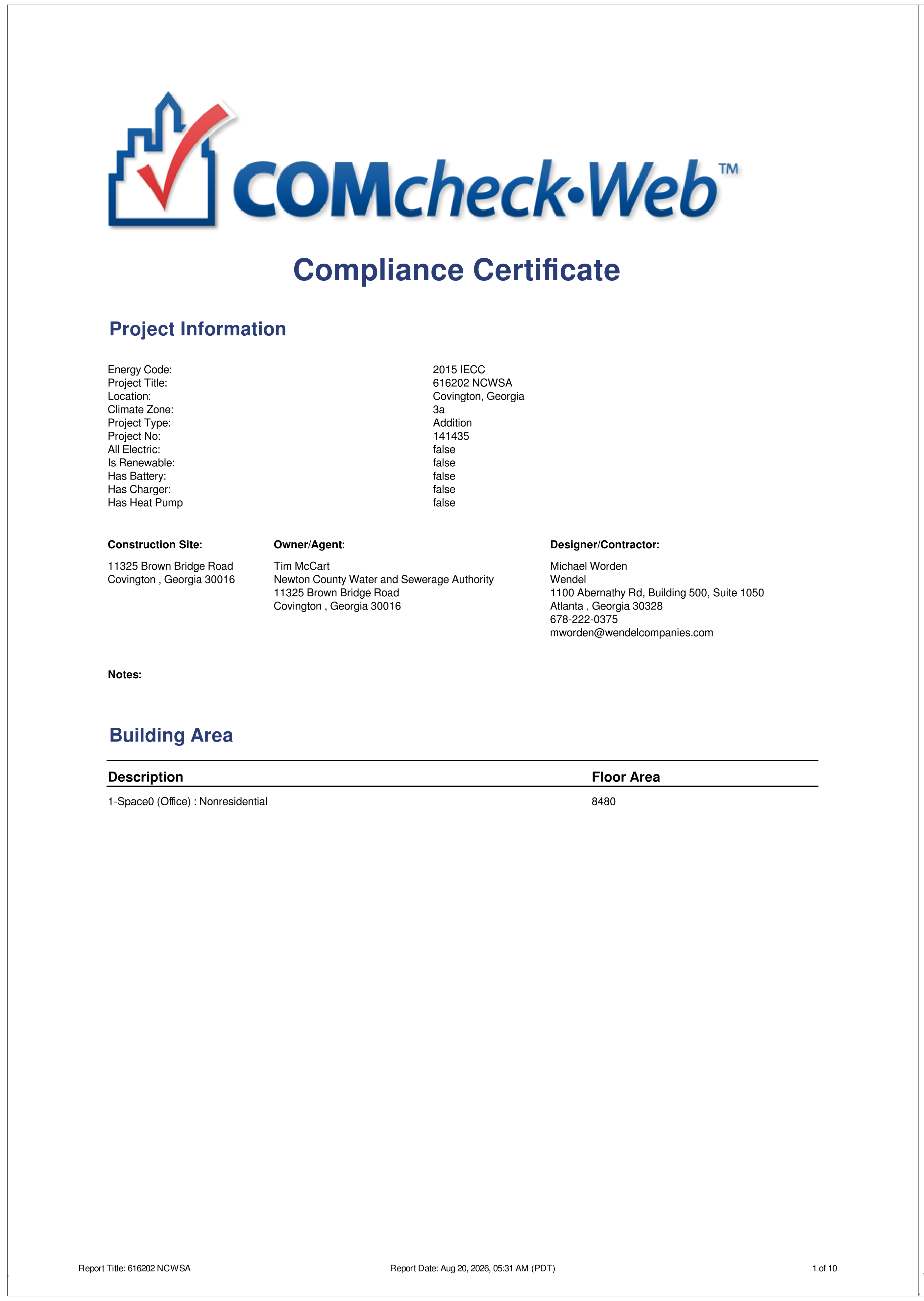
ACCESSIBILITY FIGURES

DRAWING NUMBER
A002

Plot Date: 8/19/2026 3:18:01 PM Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

ALPHA BLDG SET 09-01-2026

1



COMcheck-Web™

Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	616202 NCWSA
Location:	Covington, Georgia
Climate Zone:	3a
Project Type:	Addition
Project No:	141435
All Electric:	false
Is Renewable:	false
Has Battery:	false
Has Charger:	false
Has Heat Pump	false

Construction Site:
11325 Brown Bridge Road
Covington , Georgia 30016

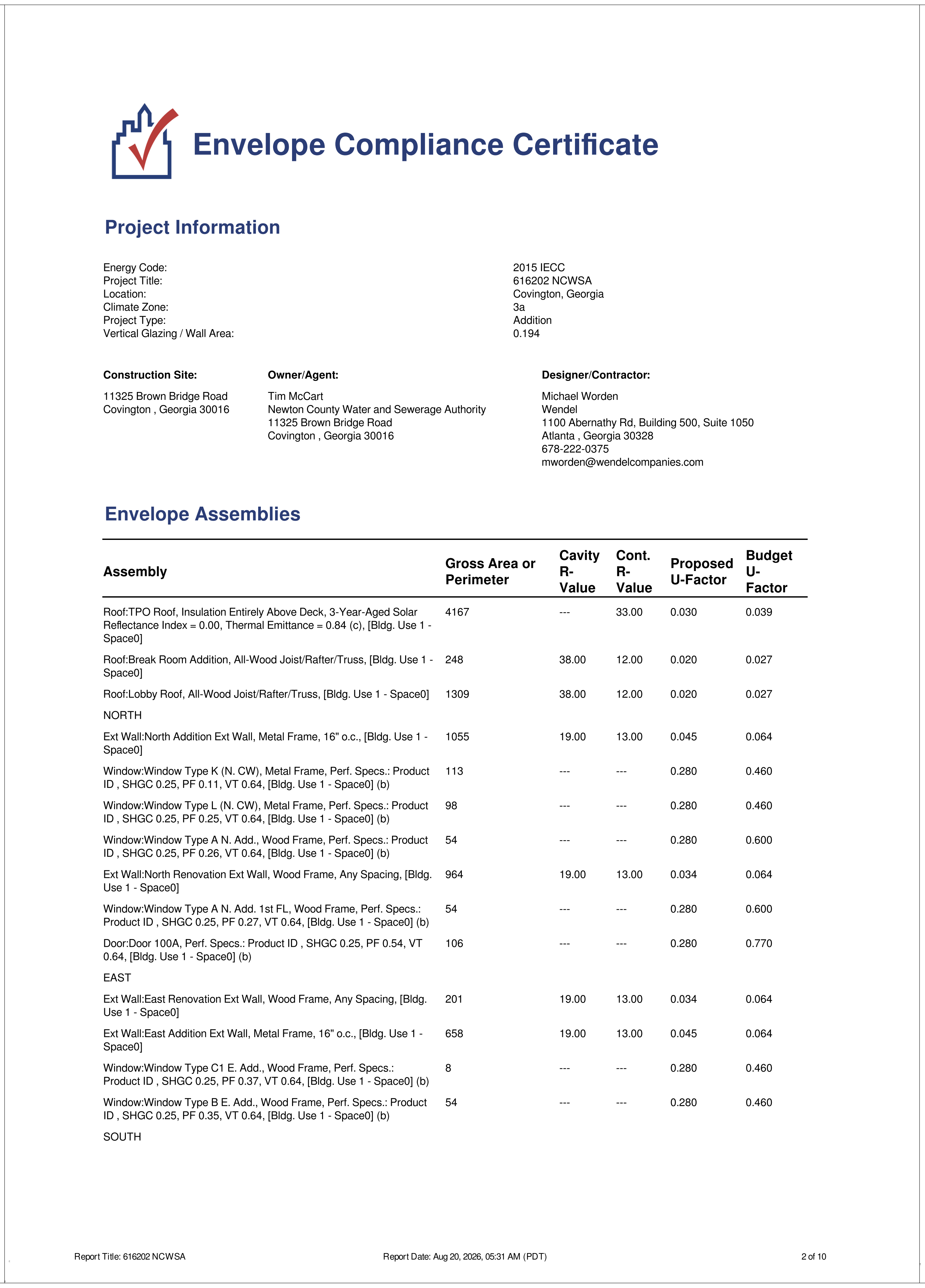
Owner/Agent:
Tim McCart
Newton County Water and Sewerage Authority
11325 Brown Bridge Road
Covington , Georgia 30016

Designer/Contractor:
Michael Worden
Wendel
1100 Abernathy Rd, Building 500, Suite 1050
Atlanta , Georgia 30328
678-222-0375
mworden@wendelcompanies.com

Notes:

Building Area

Description	Floor Area
1-Space0 (Office) : Nonresidential	8480



Envelope Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	616202 NCWSA
Location:	Covington, Georgia
Climate Zone:	3a
Project Type:	Addition
Vertical Glazing / Wall Area:	0.194

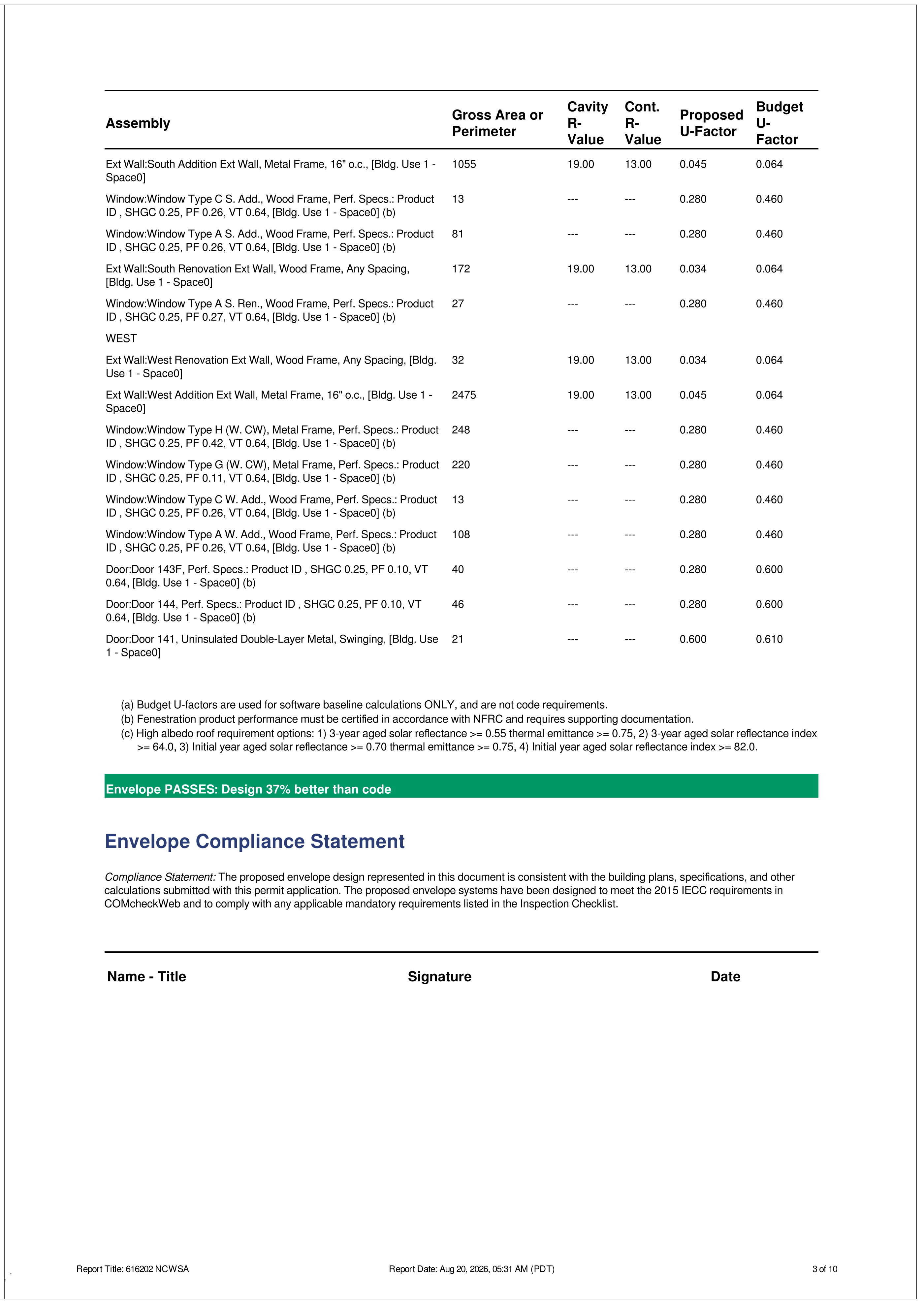
Construction Site:
11325 Brown Bridge Road
Covington , Georgia 30016

Owner/Agent:
Tim McCart
Newton County Water and Sewerage Authority
11325 Brown Bridge Road
Covington , Georgia 30016

Designer/Contractor:
Michael Worden
Wendel
1100 Abernathy Rd, Building 500, Suite 1050
Atlanta , Georgia 30328
678-222-0375
mworden@wendelcompanies.com

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof:TPO Roof, Insulation Entirely Above Deck, 3-Year-Aged Solar Reflectance Index = 0.00, Thermal Emittance = 0.84 (c), [Bldg. Use 1 - Space0]	4167	---	33.00	0.030	0.039
Roof:Break Room Addition, All-Wood Joist/Rafter/Truss, [Bldg. Use 1 - Space0]	248	38.00	12.00	0.020	0.027
Roof:Lobby Roof, All-Wood Joist/Rafter/Truss, [Bldg. Use 1 - Space0]	1309	38.00	12.00	0.020	0.027
NORTH					
Ext Wall:North Addition Ext Wall, Metal Frame, 16" o.c., [Bldg. Use 1 - Space0]	1055	19.00	13.00	0.045	0.064
Window:Window Type K (N. CW), Metal Frame, Perf. Specs.: Product ID , SHGC 0.25, PF 0.11, VT 0.64, [Bldg. Use 1 - Space0] (b)	113	---	---	0.280	0.460
Window:Window Type L (N. CW), Metal Frame, Perf. Specs.: Product ID , SHGC 0.25, PF 0.25, VT 0.64, [Bldg. Use 1 - Space0] (b)	98	---	---	0.280	0.460
Window:Window Type A N. Add., Wood Frame, Perf. Specs.: Product ID , SHGC 0.25, PF 0.26, VT 0.64, [Bldg. Use 1 - Space0] (b)	54	---	---	0.280	0.600
Ext Wall:North Renovation Ext Wall, Wood Frame, Any Spacing, [Bldg. Use 1 - Space0]	964	19.00	13.00	0.034	0.064
Window:Window Type A N. Add. 1st FL, Wood Frame, Perf. Specs.: Product ID , SHGC 0.25, PF 0.27, VT 0.64, [Bldg. Use 1 - Space0] (b)	54	---	---	0.280	0.600
Door:Door 100A, Perf. Specs.: Product ID , SHGC 0.25, PF 0.54, VT 0.64, [Bldg. Use 1 - Space0] (b)	106	---	---	0.280	0.770
EAST					
Ext Wall:East Renovation Ext Wall, Wood Frame, Any Spacing, [Bldg. Use 1 - Space0]	201	19.00	13.00	0.034	0.064
Ext Wall:East Addition Ext Wall, Metal Frame, 16" o.c., [Bldg. Use 1 - Space0]	658	19.00	13.00	0.045	0.064
Window:Window Type C1 E. Add., Wood Frame, Perf. Specs.: Product ID , SHGC 0.25, PF 0.37, VT 0.64, [Bldg. Use 1 - Space0] (b)	8	---	---	0.280	0.460
Window:Window Type B E. Add., Wood Frame, Perf. Specs.: Product ID , SHGC 0.25, PF 0.35, VT 0.64, [Bldg. Use 1 - Space0] (b)	54	---	---	0.280	0.460
SOUTH					



Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Ext Wall:South Addition Ext Wall, Metal Frame, 16" o.c., [Bldg. Use 1 - Space0]	1055	19.00	13.00	0.045	0.064
Window:Window Type C S. Add., Wood Frame, Perf. Specs.: Product ID , SHGC 0.25, PF 0.26, VT 0.64, [Bldg. Use 1 - Space0] (b)	13	---	---	0.280	0.460
Window:Window Type A S. Add., Wood Frame, Perf. Specs.: Product ID , SHGC 0.25, PF 0.26, VT 0.64, [Bldg. Use 1 - Space0] (b)	81	---	---	0.280	0.460
Ext Wall:South Renovation Ext Wall, Wood Frame, Any Spacing, [Bldg. Use 1 - Space0]	172	19.00	13.00	0.034	0.064
Window:Window Type A S. Ren., Wood Frame, Perf. Specs.: Product ID , SHGC 0.25, PF 0.27, VT 0.64, [Bldg. Use 1 - Space0] (b)	27	---	---	0.280	0.460
WEST					
Ext Wall:West Renovation Ext Wall, Wood Frame, Any Spacing, [Bldg. Use 1 - Space0]	32	19.00	13.00	0.034	0.064
Ext Wall:West Addition Ext Wall, Metal Frame, 16" o.c., [Bldg. Use 1 - Space0]	2475	19.00	13.00	0.045	0.064
Window:Window Type H (W. CW), Metal Frame, Perf. Specs.: Product ID , SHGC 0.25, PF 0.42, VT 0.64, [Bldg. Use 1 - Space0] (b)	248	---	---	0.280	0.460
Window:Window Type G (W. CW), Metal Frame, Perf. Specs.: Product ID , SHGC 0.25, PF 0.11, VT 0.64, [Bldg. Use 1 - Space0] (b)	220	---	---	0.280	0.460
Window:Window Type C W. Add., Wood Frame, Perf. Specs.: Product ID , SHGC 0.25, PF 0.26, VT 0.64, [Bldg. Use 1 - Space0] (b)	13	---	---	0.280	0.460
Window:Window Type A W. Add., Wood Frame, Perf. Specs.: Product ID , SHGC 0.25, PF 0.26, VT 0.64, [Bldg. Use 1 - Space0] (b)	108	---	---	0.280	0.460
Door:Door 143F, Perf. Specs.: Product ID , SHGC 0.25, PF 0.10, VT 0.64, [Bldg. Use 1 - Space0] (b)	40	---	---	0.280	0.600
Door:Door 144, Perf. Specs.: Product ID , SHGC 0.25, PF 0.10, VT 0.64, [Bldg. Use 1 - Space0] (b)	46	---	---	0.280	0.600
Door:Door 141, Uninsulated Double-Layer Metal, Swinging, [Bldg. Use 1 - Space0]	21	---	---	0.600	0.610

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) High albedo roof requirement options: 1) 3-year aged solar reflectance >= 0.55 thermal emittance >= 0.75, 2) 3-year aged solar reflectance index >= 64.0, 3) Initial year aged solar reflectance >= 0.70 thermal emittance >= 0.75, 4) Initial year aged solar reflectance index >= 82.0.

Envelope PASSES: Design 37% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title	Signature	Date

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

STATE OF GEORGIA
MACK A. CUNNINGHAM
REGISTERED ARCHITECT
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

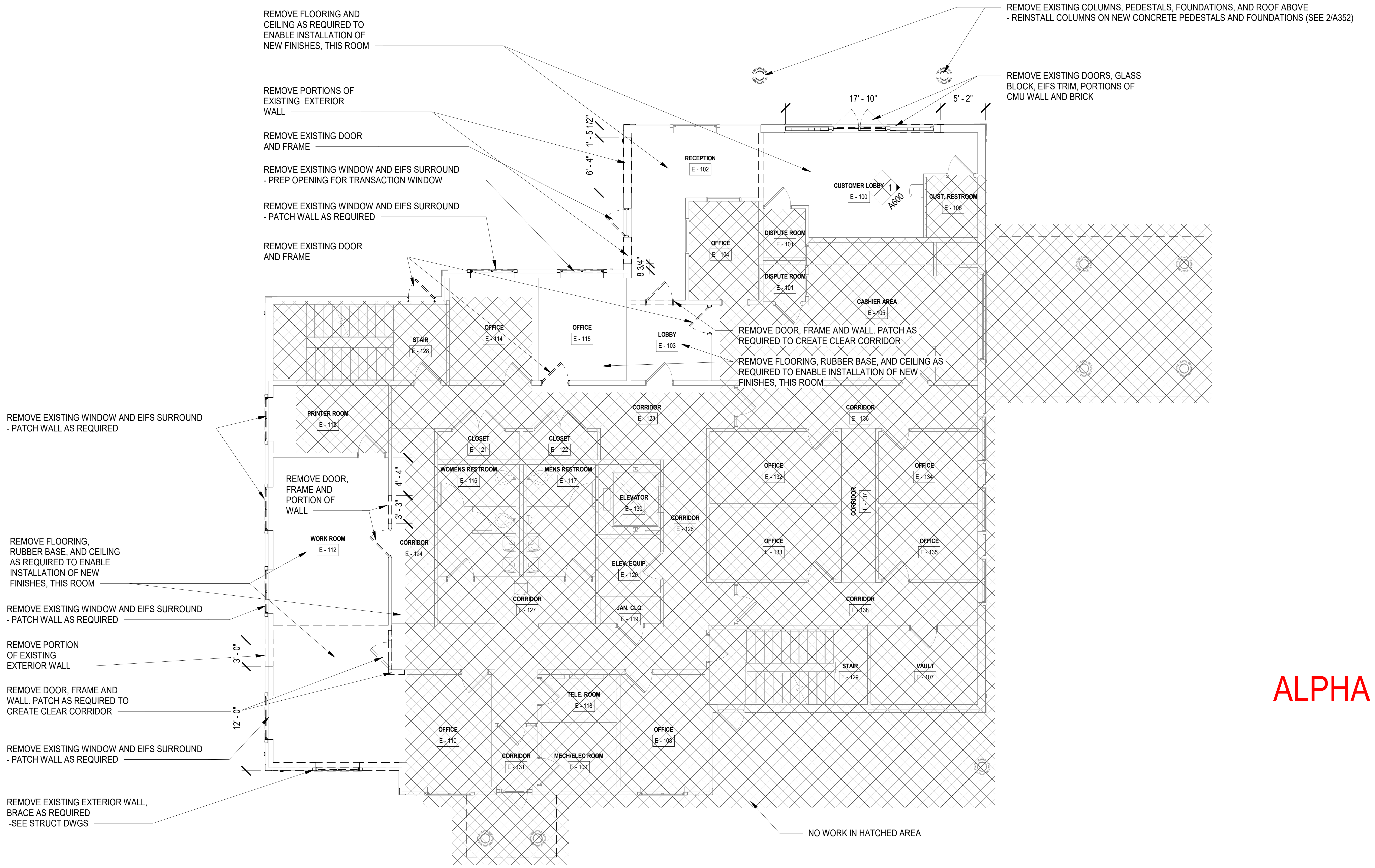
CLIENT PROJECT NUMBER

COMCHECK

DRAWING NUMBER
A003

Plot Date: 8/19/2026 3:18:01 PM

Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt


REMOVE FLOORING AND CEILING AS REQUIRED TO ENABLE INSTALLATION OF NEW FINISHES, THIS ROOM
REMOVE PORTIONS OF EXISTING EXTERIOR WALL
REMOVE EXISTING DOOR AND FRAME
REMOVE EXISTING WINDOW AND EIFS SURROUND - PREP OPENING FOR TRANSACTION WINDOW
REMOVE EXISTING WINDOW AND EIFS SURROUND - PATCH WALL AS REQUIRED
REMOVE EXISTING DOOR AND FRAME
REMOVE EXISTING COLUMNS, PEDESTALS, FOUNDATIONS, AND ROOF ABOVE - REINSTALL COLUMNS ON NEW CONCRETE PEDESTALS AND FOUNDATIONS (SEE 2/A352)
REMOVE EXISTING DOORS, GLASS BLOCK, EIFS TRIM, PORTIONS OF CMU WALL AND BRICK
17' - 10"
5' - 2"
1' - 5 1/2"
6' - 4"
8 3/4"
RECEPTION
E - 102
CUSTOMER LOBBY
E - 100
1
A600
CUST. RESTROOM
E - 106
OFFICE
E - 104
DISPUTE ROOM
E - 101
DISPUTE ROOM
E - 101
CASHIER AREA
E - 105
REMOVE DOOR, FRAME AND WALL. PATCH AS REQUIRED TO CREATE CLEAR CORRIDOR
REMOVE FLOORING, RUBBER BASE, AND CEILING AS REQUIRED TO ENABLE INSTALLATION OF NEW FINISHES, THIS ROOM
STAIR
E - 128
OFFICE
E - 114
OFFICE
E - 115
LOBBY
E - 103
PRINTER ROOM
E - 113
CORRIDOR
E - 123
CORRIDOR
E - 136
CLOSET
E - 121
CLOSET
E - 122
WOMENS RESTROOM
E - 116
MENS RESTROOM
E - 117
ELEVATOR
E - 130
CORRIDOR
E - 126
OFFICE
E - 132
CORRIDOR
E - 137
OFFICE
E - 134
OFFICE
E - 133
OFFICE
E - 135
REMOVE EXISTING WINDOW AND EIFS SURROUND - PATCH WALL AS REQUIRED
REMOVE DOOR, FRAME AND PORTION OF WALL
4' - 4"
3' - 3"
WORK ROOM
E - 112
CORRIDOR
E - 124
ELEV. EQUIP.
E - 120
REMOVE FLOORING, RUBBER BASE, AND CEILING AS REQUIRED TO ENABLE INSTALLATION OF NEW FINISHES, THIS ROOM
CORRIDOR
E - 127
JAN. CLO.
E - 119
CORRIDOR
E - 138
REMOVE EXISTING WINDOW AND EIFS SURROUND - PATCH WALL AS REQUIRED
REMOVE PORTION OF EXISTING EXTERIOR WALL
3' - 0"
STAIR
E - 129
VAULT
E - 107
TELE. ROOM
E - 118
REMOVE DOOR, FRAME AND WALL. PATCH AS REQUIRED TO CREATE CLEAR CORRIDOR
12' - 0"
OFFICE
E - 110
OFFICE
E - 108
REMOVE EXISTING WINDOW AND EIFS SURROUND - PATCH WALL AS REQUIRED
CORRIDOR
E - 131
MECH/ELEC ROOM
E - 109
REMOVE EXISTING EXTERIOR WALL, BRACE AS REQUIRED -SEE STRUCT DWGS
NO WORK IN HATCHED AREA

N

1 FIRST FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

1. INFORMATION SHOWN IS NOT PURPORTED TO BE AN ACCURATE AND/OR DETAILED REPRESENTATION OF EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.
2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.
3. OWNER WILL OCCUPY PORTIONS OF BUILDING IMMEDIATELY ADJACENT TO SELECTIVE DEMOLITION AREA. CONDUCT SELECTIVE DEMOLITION SO OWNER'S OPERATIONS WILL NOT BE DISRUPTED. PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN.
4. PROVIDE TEMPORARY FIRE PROTECTION FOR ANY DEMOLITION THAT COMPROMISES EXISTING FIRE RATED CONDITIONS.
5. IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT AND OWNER.
6. REPAIR ALL DAMAGE RESULTING FROM THE PROJECT AND LEAVE ALL AREAS CLEAN AND FREE OF DUST AND DEBRIS AT THE COMPLETION OF EACH WORK DAY.
7. THE EXISTING CONDITION OF ALL ITEMS NOTED OR SHOWN TO BE REMOVED AND/OR REUSED SHALL BE FIELD VERIFIED PRIOR TO SELECTIVE DEMOLITION. ANY EXISTING DAMAGE SHALL BE BROUGHT TO THE OWNER AND ARCHITECT'S ATTENTION AND NOTED PRIOR TO SELECTIVE DEMOLITION.
8. REMOVE EXISTING EXTERIOR SPLIT-FACE CMU AS REQUIRED TO ENABLE CONSTRUCTION OF ADDITION, TYP.
9. BRACE ALL EXISTING-TO-REMAIN ELEMENTS AS REQUIRED TO REMOVE DEMOLISHED ELEMENTS.

ALPHA BLDG SET 09-01-2026

Path: Autodesk Docs://NCWSA Admin Bldg_V25/616202-NCWSA-ARCH_V25(Central).rvt

Plot Date: 8/19/2026 3:18:02 PM

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION
DOCUMENTS
07/01/2026

NCWSA OFFICE
ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

1ST FLOOR - DEMO
PLANS

DRAWING NUMBER
AD101

GENERAL DEMOLITION NOTES:

1. INFORMATION SHOWN IS NOT PURPORTED TO BE AN ACCURATE AND/OR DETAILED REPRESENTATION OF EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.
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4. PROVIDE TEMPORARY FIRE PROTECTION FOR ANY DEMOLITION THAT COMPROMISES EXISTING FIRE RATED CONDITIONS.
5. IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT AND OWNER.
6. REPAIR ALL DAMAGE RESULTING FROM THE PROJECT AND LEAVE ALL AREAS CLEAN AND FREE OF DUST AND DEBRIS AT THE COMPLETION OF EACH WORK DAY.
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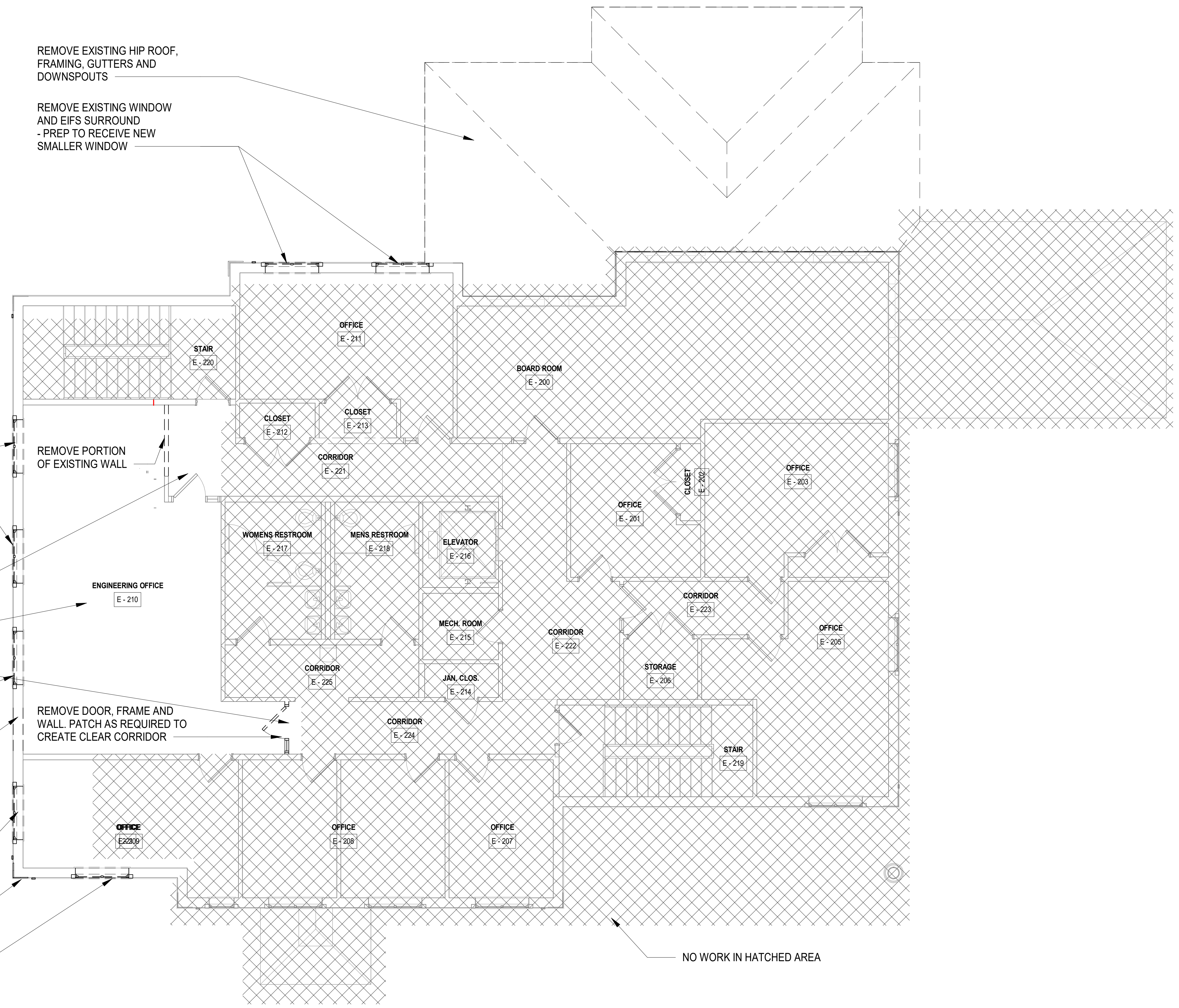
8. REMOVE EXISTING EXTERIOR SPLIT-FACE CMU AS REQUIRED TO ENABLE CONSTRUCTION OF ADDITION, TYP.
9. BRACE ALL EXISTING-TO-REMAIN ELEMENTS AS REQUIRED TO REMOVE DEMOLISHED ELEMENTS.



REMOVE EXISTING HIP ROOF, FRAMING, GUTTERS AND DOWNSPOUTS

REMOVE EXISTING WINDOW AND EIFS SURROUND - PREP TO RECEIVE NEW SMALLER WINDOW

REMOVE EXISTING WINDOW AND EIFS SURROUND - PATCH WALL AS REQUIRED

REMOVE PORTION OF EXISTING WALL

REMOVE FLOORING, RUBBER BASE, AND CEILING AS REQUIRED TO ENABLE INSTALLATION OF NEW FINISHES, THIS ROOM

REMOVE EXISTING WINDOW AND EIFS SURROUND - PATCH WALL AS REQUIRED

REMOVE DOOR, FRAME AND WALL. PATCH AS REQUIRED TO CREATE CLEAR CORRIDOR

REMOVE PORTION OF EXISTING EXTERIOR WALL

REMOVE EXISTING WINDOW AND EIFS SURROUND - PATCH WALL AS REQUIRED

REMOVE EXISTING QUOINS WHERE REQUIRED TO ENABLE ABUTMENT OF EXTERIOR WALLS, TYP.

REMOVE EXISTING WINDOW AND EIFS SURROUND - PREP TO RECEIVE NEW SMALLER WINDOW

NO WORK IN HATCHED AREA

N

1 SECOND FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

ALPHA BLDG SET 09-01-2026

Plot Date: 8/19/2026 3:18:03 PM
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Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver
FILENAME
BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

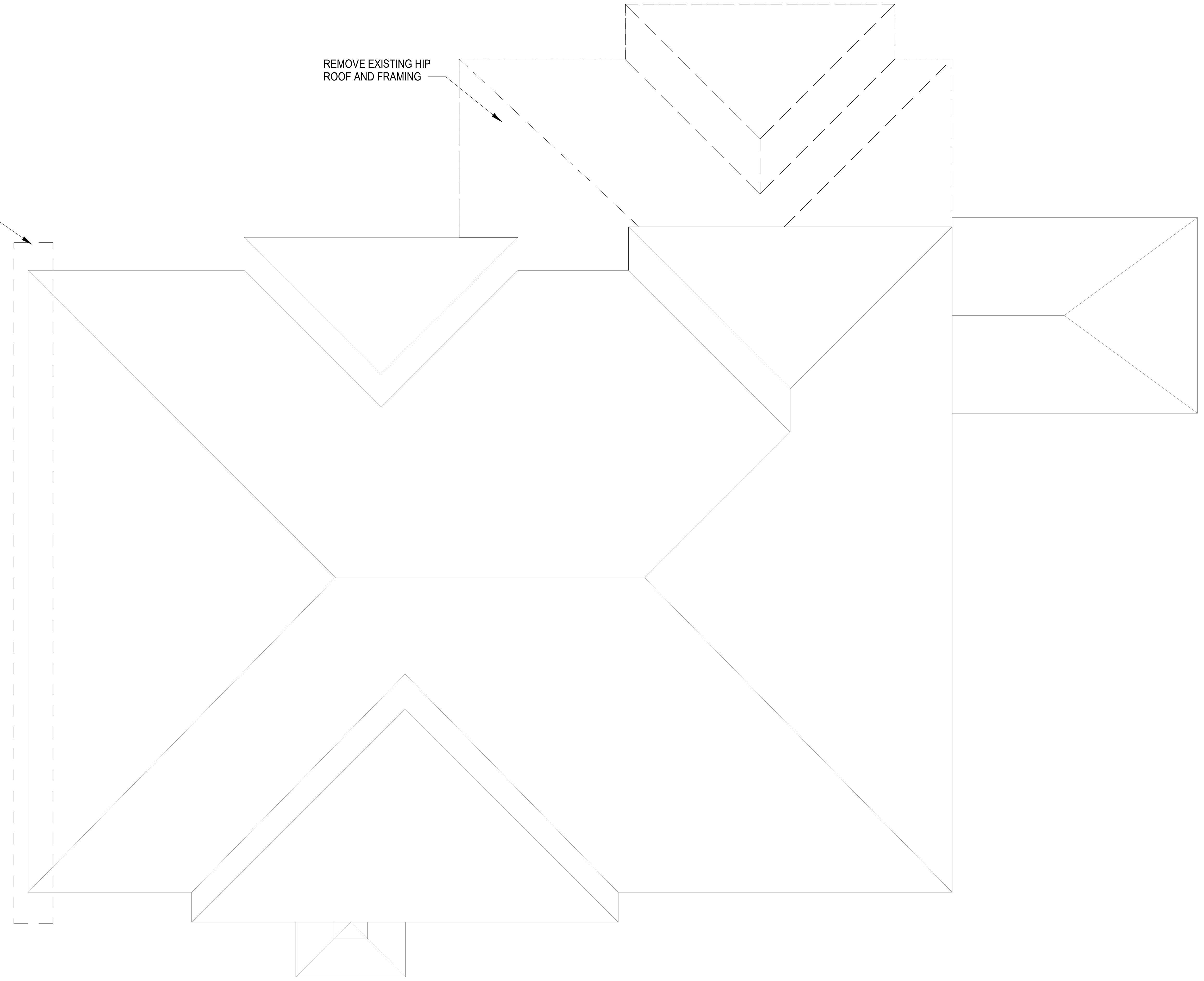
2ND FLOOR - DEMO PLANS

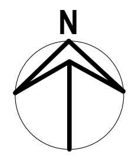
DRAWING NUMBER
AD102

ALPHA BLDG SET 09-01-2026

REMOVE PORTION OF ROOF EDGE INCLUDING FRAMING, FASCIA, SOFFIT, SHINGLES, GUTTER AND DOWNSPOUTS TO ACCOMMODATE INSTALLATION OF NEW INTERNAL GUTTER BETWEEN EXISTING BUILDING AND ADDITION -SEE A451 FOR EXTENTS

REMOVE EXISTING HIP ROOF AND FRAMING





1 ROOF DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

Plot Date: 8/19/2026 3:18:04 PM

Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

MACK A. CUNNINGHAM

7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

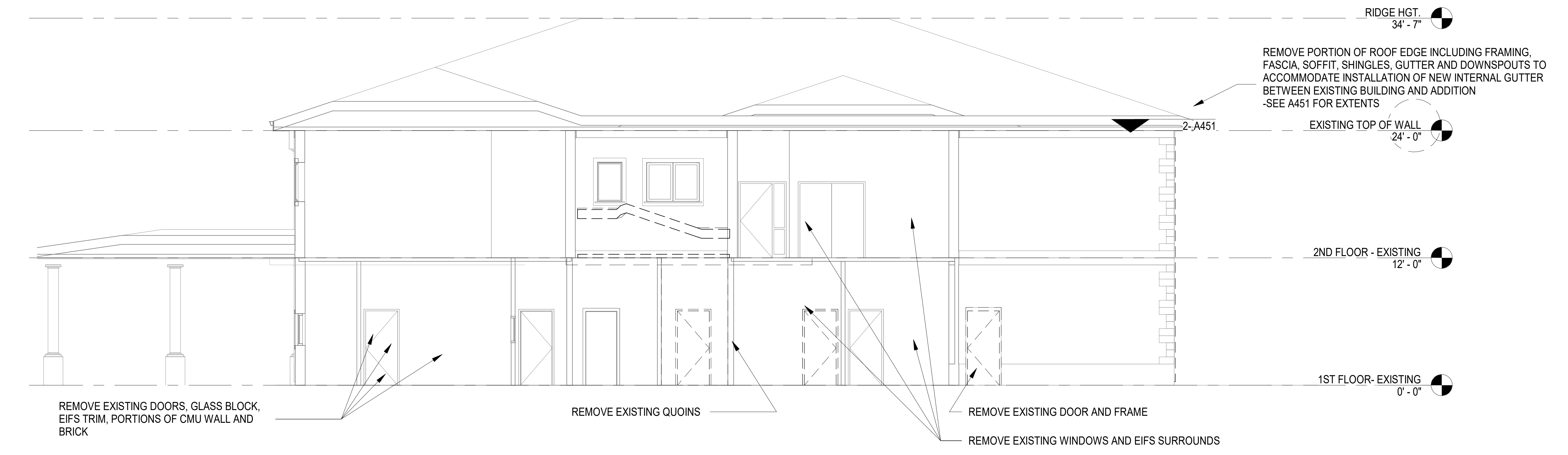
FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

ROOF - DEMO PLANS

DRAWING NUMBER
AD103


RIDGE HGT.
34' - 7"
REMOVE PORTION OF ROOF EDGE INCLUDING FRAMING, FASCIA, SOFFIT, SHINGLES, GUTTER AND DOWNSPOUTS TO ACCOMMODATE INSTALLATION OF NEW INTERNAL GUTTER BETWEEN EXISTING BUILDING AND ADDITION -SEE A451 FOR EXTENTS
2-A451
EXISTING TOP OF WALL
24' - 0"
2ND FLOOR - EXISTING
12' - 0"
1ST FLOOR- EXISTING
0' - 0"
REMOVE EXISTING DOORS, GLASS BLOCK, EIFS TRIM, PORTIONS OF CMU WALL AND BRICK
REMOVE EXISTING QUOINS
REMOVE EXISTING DOOR AND FRAME
REMOVE EXISTING WINDOWS AND EIFS SURROUNDS

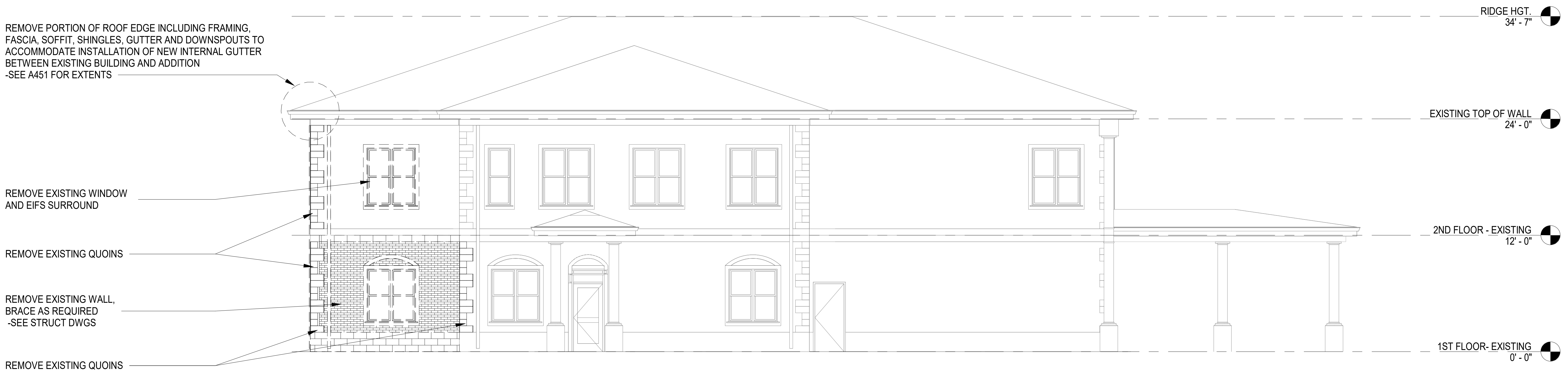
1 DEMO - NORTH

SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

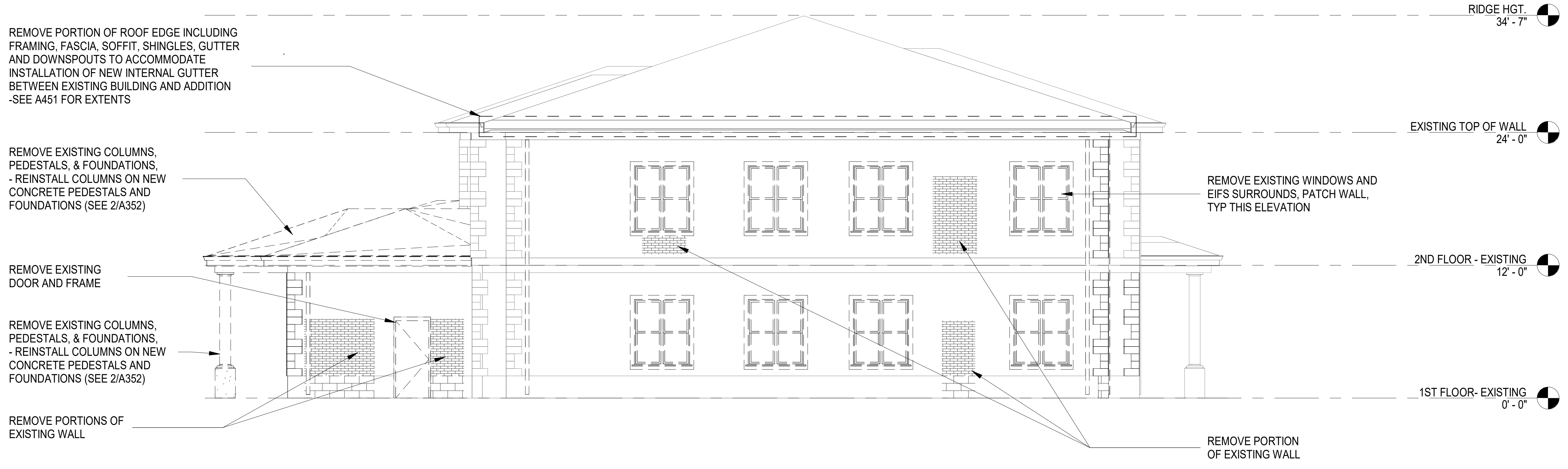
1. INFORMATION SHOWN IS NOT PURPORTED TO BE AN ACCURATE AND/OR DETAILED REPRESENTATION OF EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.
2. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH SELECTIVE DEMOLITION.
3. OWNER WILL OCCUPY PORTIONS OF BUILDING IMMEDIATELY ADJACENT TO SELECTIVE DEMOLITION AREA. CONDUCT SELECTIVE DEMOLITION SO OWNER'S OPERATIONS WILL NOT BE DISRUPTED. PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN.
4. PROVIDE TEMPORARY FIRE PROTECTION FOR ANY DEMOLITION THAT COMPROMISES EXISTING FIRE RATED CONDITIONS.
5. IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. IF SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT AND OWNER.
6. REPAIR ALL DAMAGE RESULTING FROM THE PROJECT AND LEAVE ALL AREAS CLEAN AND FREE OF DUST AND DEBRIS AT THE COMPLETION OF EACH WORK DAY.
7. THE EXISTING CONDITION OF ALL ITEMS NOTED OR SHOWN TO BE REMOVED AND/OR REUSED SHALL BE FIELD VERIFIED PRIOR TO SELECTIVE DEMOLITION. ANY EXISTING DAMAGE SHALL BE BROUGHT TO THE OWNER AND ARCHITECT'S ATTENTION AND NOTED PRIOR TO SELECTIVE DEMOLITION.
8. REMOVE EXISTING EXTERIOR SPLIT-FACE CMU AS REQUIRED TO ENABLE CONSTRUCTION OF ADDITION, TYP.
9. BRACE ALL EXISTING-TO-REMAIN ELEMENTS AS REQUIRED TO REMOVE DEMOLISHED ELEMENTS.

ALPHA BLDG SET 09-01-2026


REMOVE PORTION OF ROOF EDGE INCLUDING FRAMING, FASCIA, SOFFIT, SHINGLES, GUTTER AND DOWNSPOUTS TO ACCOMMODATE INSTALLATION OF NEW INTERNAL GUTTER BETWEEN EXISTING BUILDING AND ADDITION -SEE A451 FOR EXTENTS
RIDGE HGT.
34' - 7"
EXISTING TOP OF WALL
24' - 0"
2ND FLOOR - EXISTING
12' - 0"
1ST FLOOR- EXISTING
0' - 0"
REMOVE EXISTING WINDOW AND EIFS SURROUND
REMOVE EXISTING QUOINS
REMOVE EXISTING WALL, BRACE AS REQUIRED -SEE STRUCT DWGS
REMOVE EXISTING QUOINS

2 DEMO - SOUTH

SCALE: 1/8" = 1'-0"


REMOVE PORTION OF ROOF EDGE INCLUDING FRAMING, FASCIA, SOFFIT, SHINGLES, GUTTER AND DOWNSPOUTS TO ACCOMMODATE INSTALLATION OF NEW INTERNAL GUTTER BETWEEN EXISTING BUILDING AND ADDITION -SEE A451 FOR EXTENTS
RIDGE HGT.
34' - 7"
EXISTING TOP OF WALL
24' - 0"
REMOVE EXISTING COLUMNS, PEDESTALS, & FOUNDATIONS, - REINSTALL COLUMNS ON NEW CONCRETE PEDESTALS AND FOUNDATIONS (SEE 2/A352)
REMOVE EXISTING WINDOWS AND EIFS SURROUNDS, PATCH WALL, TYP THIS ELEVATION
2ND FLOOR - EXISTING
12' - 0"
REMOVE EXISTING DOOR AND FRAME
REMOVE EXISTING COLUMNS, PEDESTALS, & FOUNDATIONS, - REINSTALL COLUMNS ON NEW CONCRETE PEDESTALS AND FOUNDATIONS (SEE 2/A352)
1ST FLOOR- EXISTING
0' - 0"
REMOVE PORTIONS OF EXISTING WALL
REMOVE PORTION OF EXISTING WALL

3 DEMO - WEST

SCALE: 1/8" = 1'-0"

Plot Date: 8/19/2026 3:18:05 PM

Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA
NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

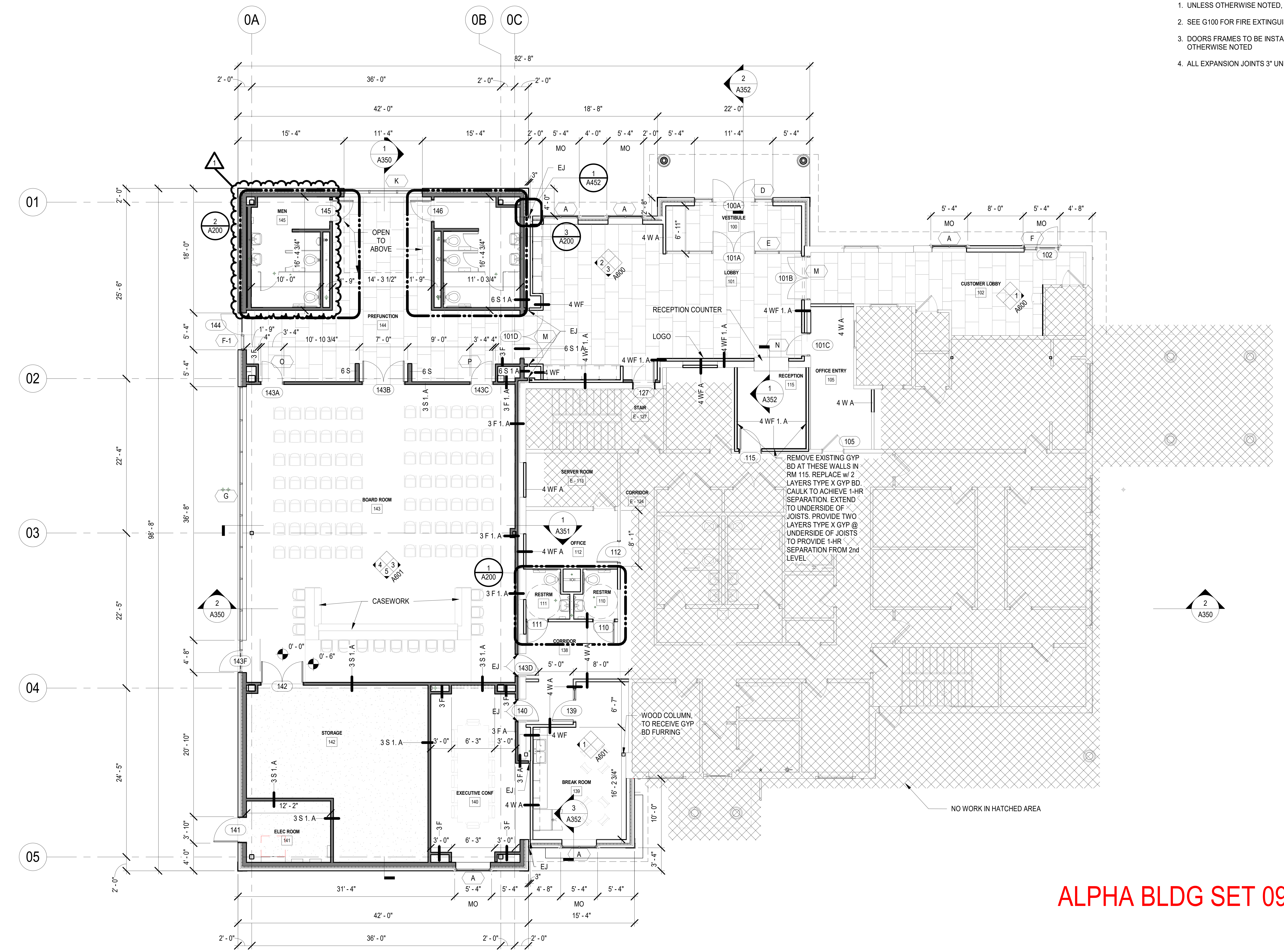
DEMO ELEVATIONS

DRAWING NUMBER
AD301

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

FLOOR PLAN NOTES

1. UNLESS OTHERWISE NOTED, INTERIOR PARTITIONS TO BE TYPE 3 S A
2. SEE G100 FOR FIRE EXTINGUISHER LOCATIONS
3. DOORS FRAMES TO BE INSTALLED 4" FROM ADJACENT WALL UNLESS OTHERWISE NOTED
4. ALL EXPANSION JOINTS 3" UNLESS OTHERWISE NOTED



1 FIRST FLOOR CONSTRUCTION PLAN
SCALE: 1/8" = 1'-0"

ALPHA BLDG SET 09-01-2026

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver
FILENAME
BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

1ST FLOOR - CONSTRUCTION PLANS

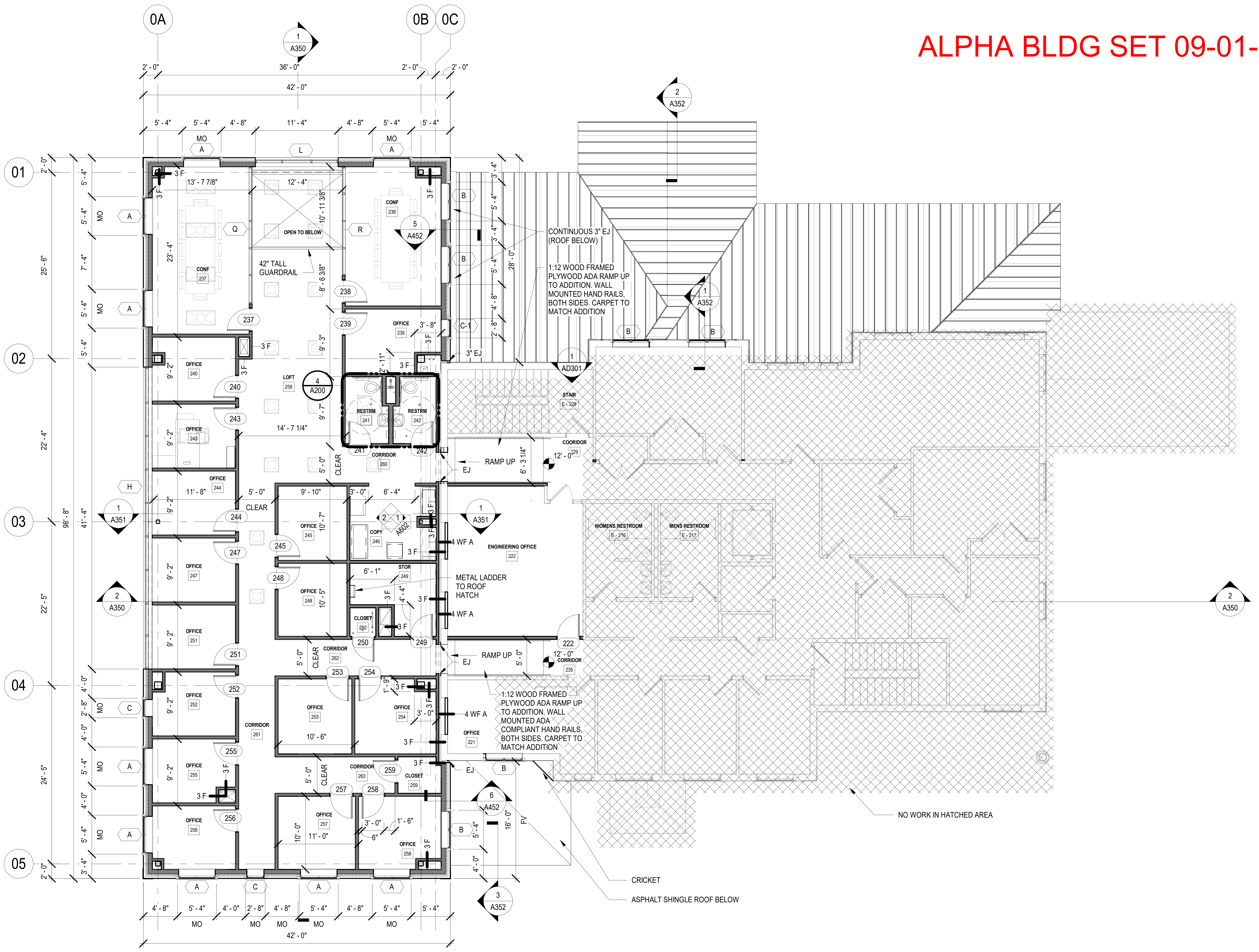
DRAWING NUMBER
A101

Plot Date: 8/19/2026 3:18:07 PM
Path: Autodesk Docs://NCWSA Admin Bldg_V25/616202-NCWSA-ARCH_V25(Central).rvt

FLOOR PLAN NOTES

1. UNLESS OTHERWISE NOTED, INTERIOR PARTITIONS TO BE TYPE 3 S A
2. SEE G100 FOR FIRE EXTINGUISHER LOCATIONS
3. DOORS FRAMES TO BE INSTALLED 4" FROM ADJACENT WALL UNLESS OTHERWISE NOTED

ALPHA BLDG SET 09-01-2026



1 SECOND FLOOR CONSTRUCTION PLAN
SCALE: 1/8" = 1'-0"

Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

Plot Date: 8/19/2026 3:18:08 PM

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

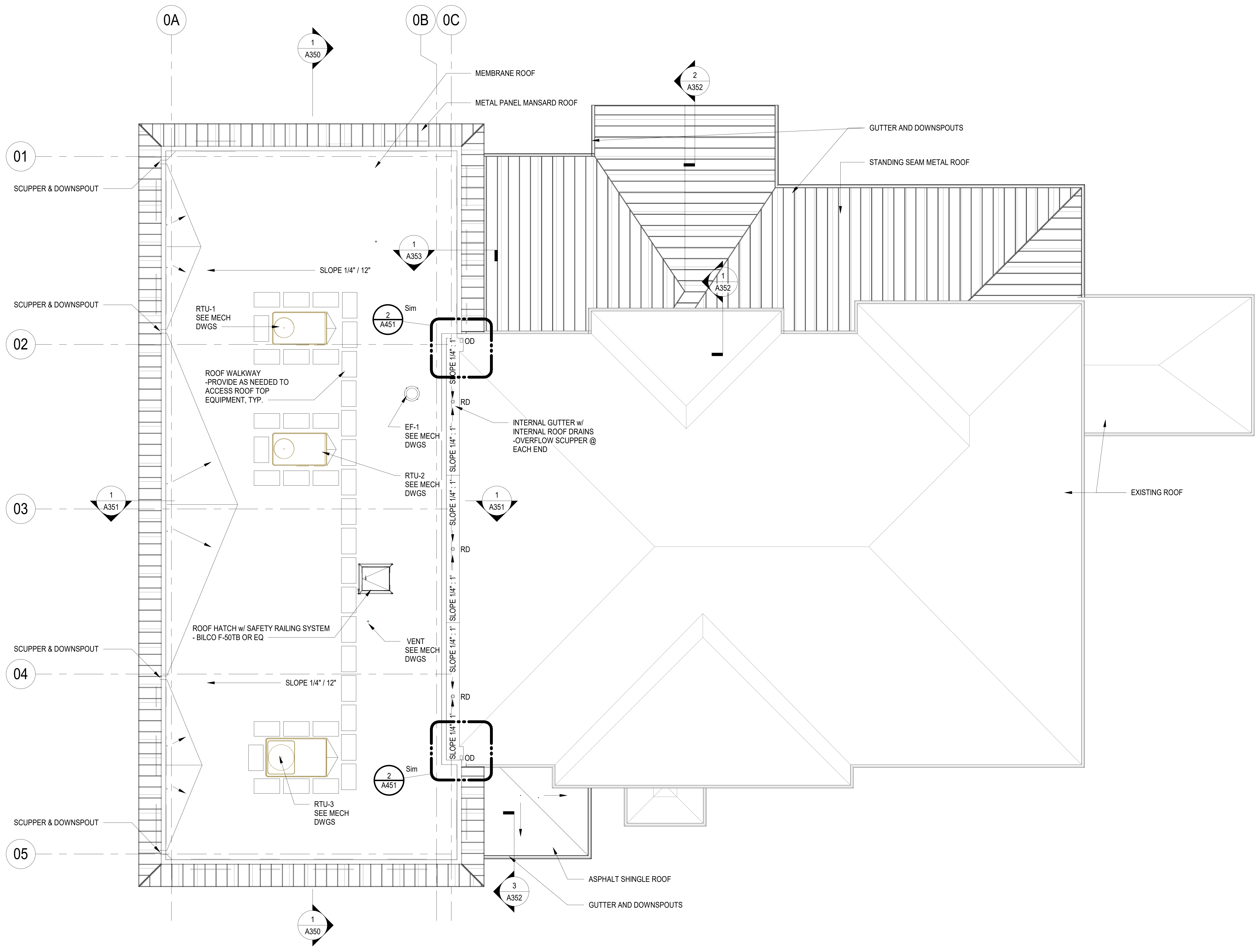
BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

2ND FLOOR - CONSTRUCTION PLANS

DRAWING NUMBER
A102

ALPHA BLDG SET 09-01-2026



N

1 ROOF CONSTRUCTION PLAN

SCALE: 1/8" = 1'-0"

Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

Plot Date: 8/19/2026 3:18:10 PM

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

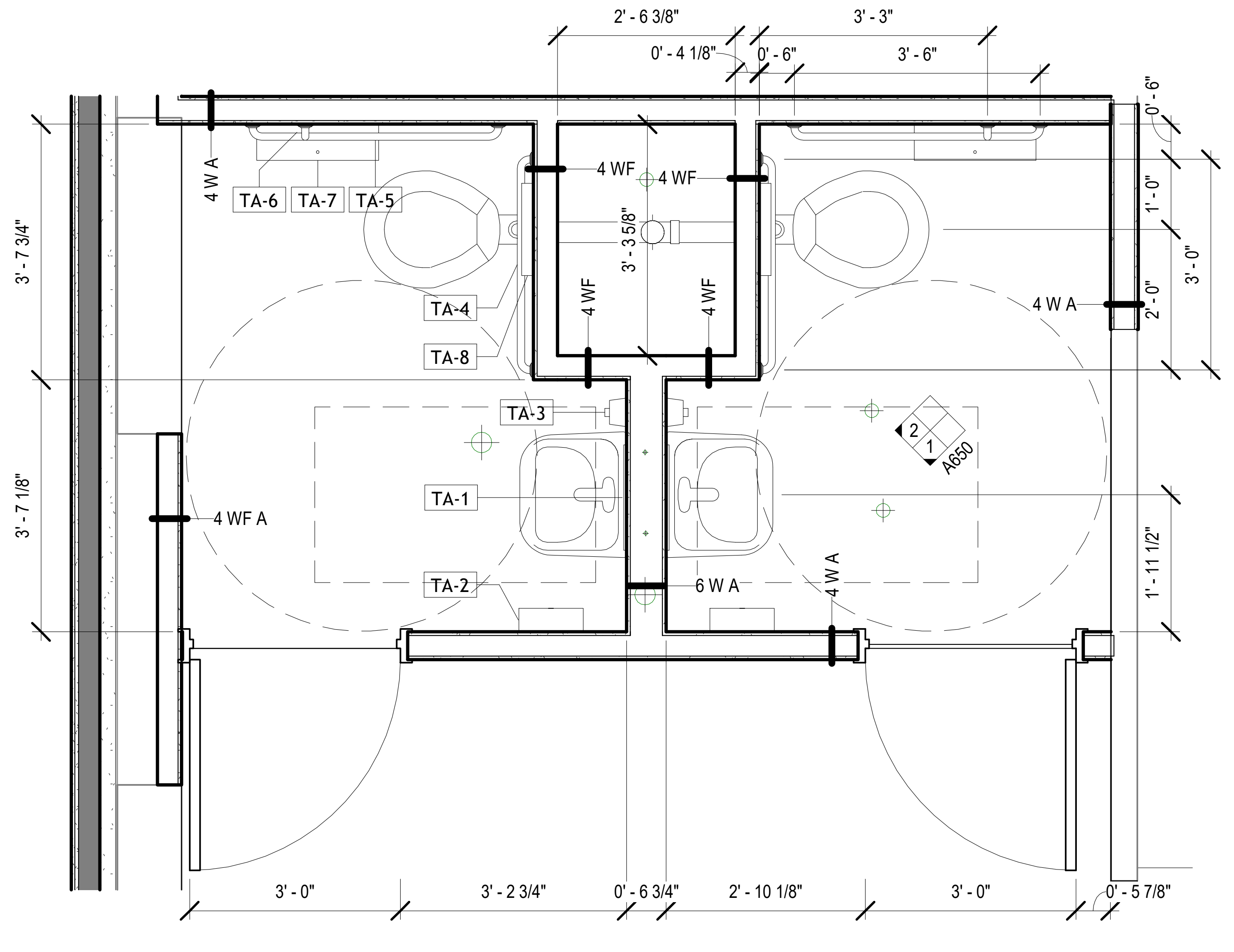
FILENAME

BC PROJECT NUMBER
616202

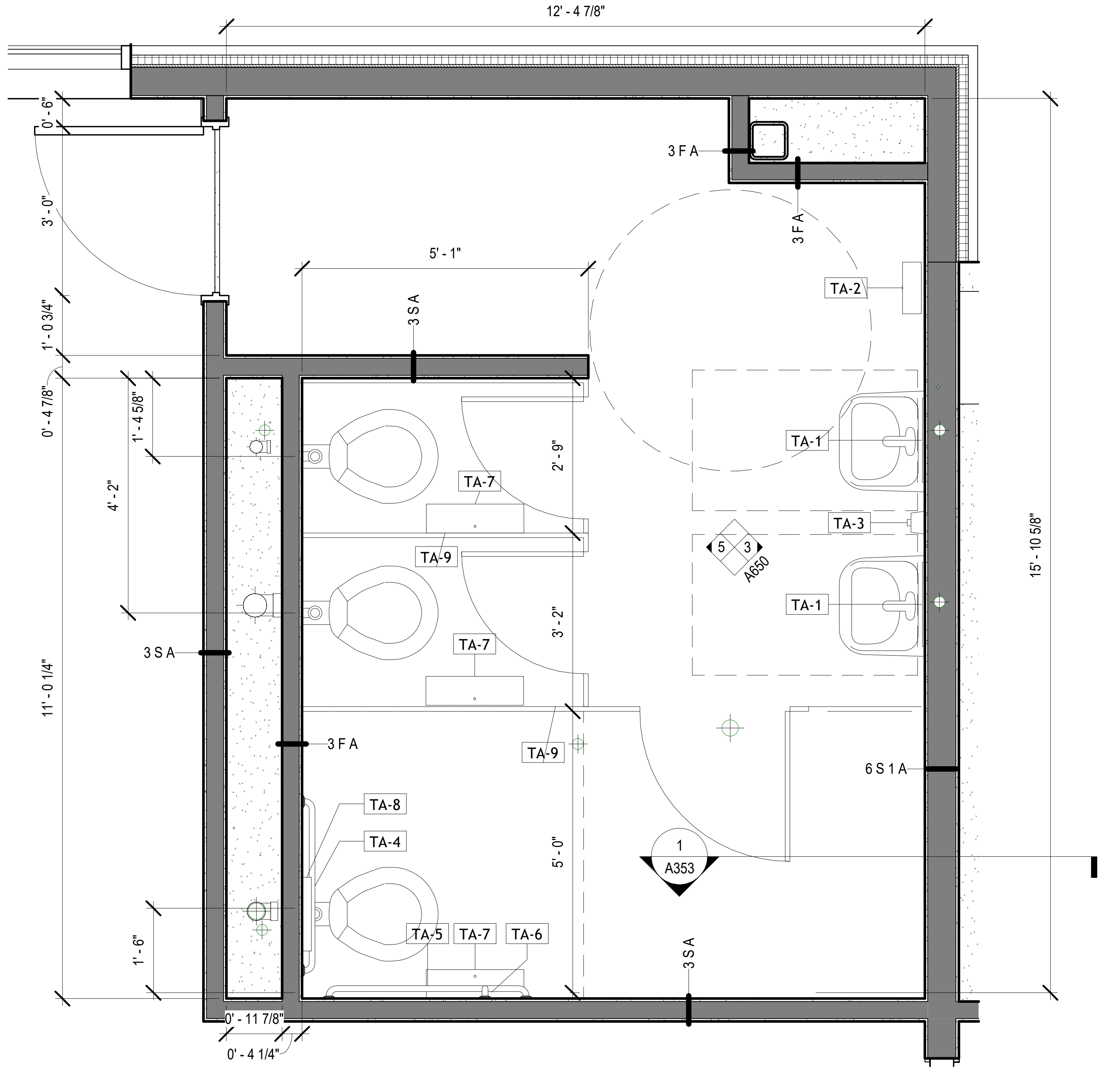
CLIENT PROJECT NUMBER

ROOF - CONSTRUCTION PLANS

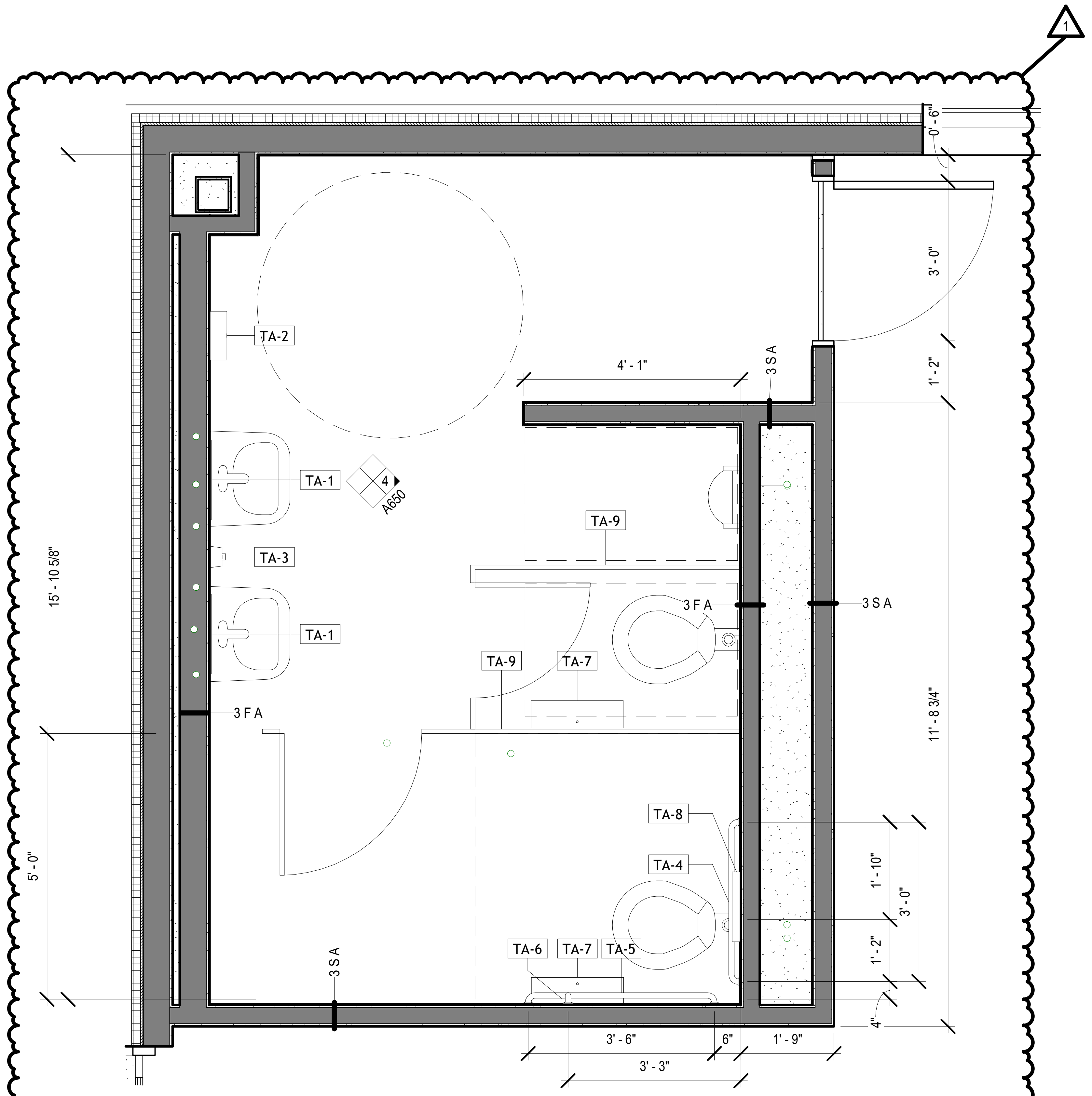
DRAWING NUMBER
A150



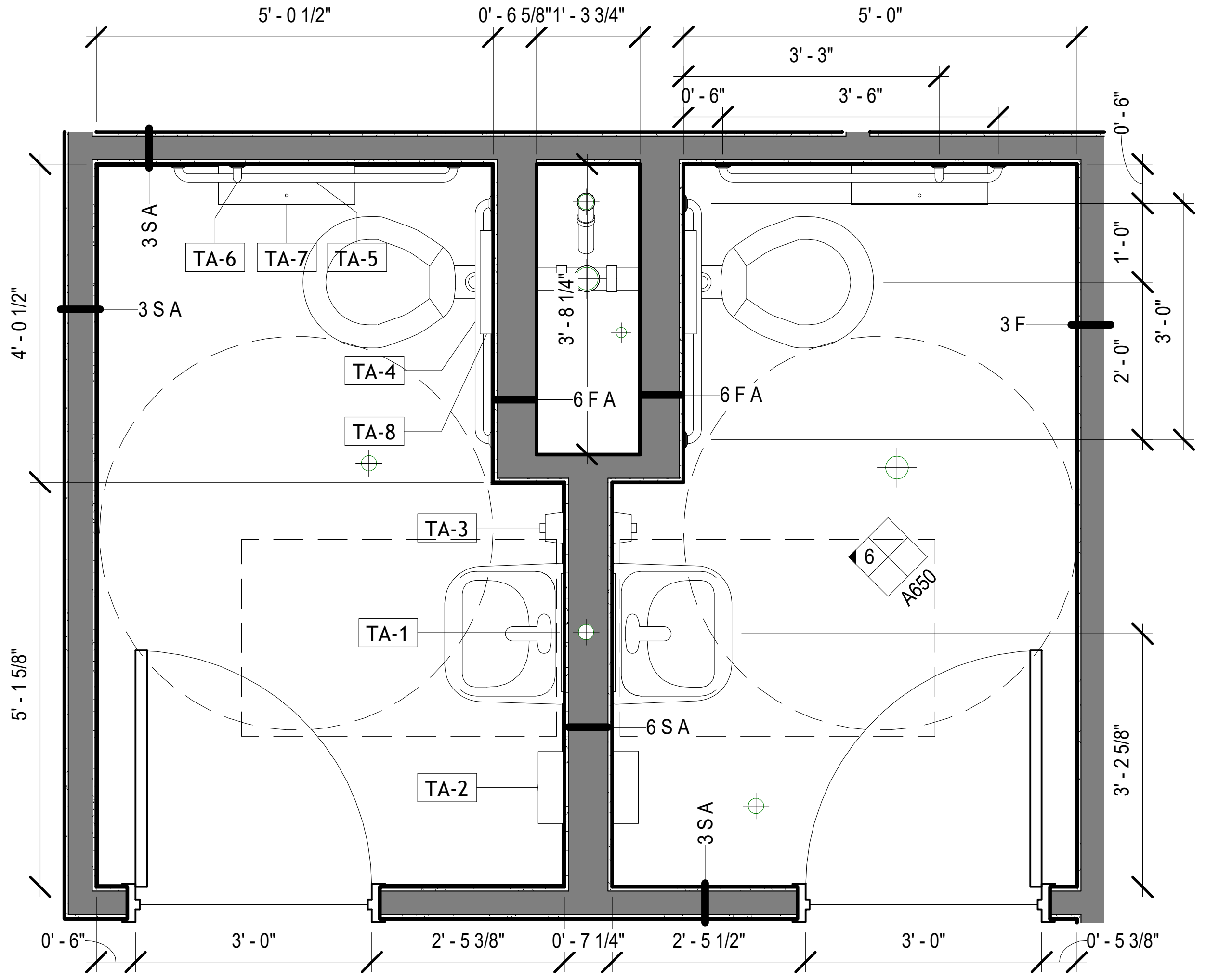
1 FIRST FLOOR PLAN - RESTROOMS 110 & 111
SCALE: 1/2" = 1'-0"



3 FIRST FLOOR PLAN - RESTROOM 146
SCALE: 1/2" = 1'-0"



2 FIRST FLOOR PLAN - RESTROOM 145
SCALE: 1/2" = 1'-0"



4 SECOND FLOOR PLAN - RESTROOMS 241 & 242
SCALE: 1/2" = 1'-0"

ALPHA BLDG SET 09-01-2026

RESTROOM ACCESSORY EQUIPMENT

DESIGNATION	DESCRIPTION	COMMENTS
TA-1	18"x30" Mirror	SURFACE MOUNT
TA-2	Towel Dispenser / Waste Receptacle	SEMI-RECESSED
TA-3	Soap Dispenser	SURFACE MOUNT
TA-4	36 inch ADA compliant grab bar	SURFACE MOUNT - HORIZONTAL
TA-5	42 inch ADA compliant grab bar	SURFACE MOUNT - HORIZONTAL
TA-6	18 Inches ADA compliant grab bar	SURFACE MOUNT - VERTICAL
TA-7	Toilet Paper Dispenser, Twin 9″ Jumbo – Surface Mounted	SURFACE MOUNT
TA-8	Seat Cover Dispenser	SURFACE MOUNT
TA-9	ASI Maximum Privacy Phenolic Toilet Compartments	
TA-10	ASI Urinal Partitions to Coordinate with TA-9	

NOTE:

1. SEE MOUNTING DIAGRAMS (A100) FOR INSTALLATION LOCATION
2. CONTRACTOR TO PROVIDE BLOCKING AS REQUIRED
3. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES PER 2010 ADA STANDARD FOR ACCESSIBLE DESIGN 606.5

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

STATE OF GEORGIA REGISTERED ARCHITECT
MACK A. CUNNINGHAM
Mack Cunningham
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

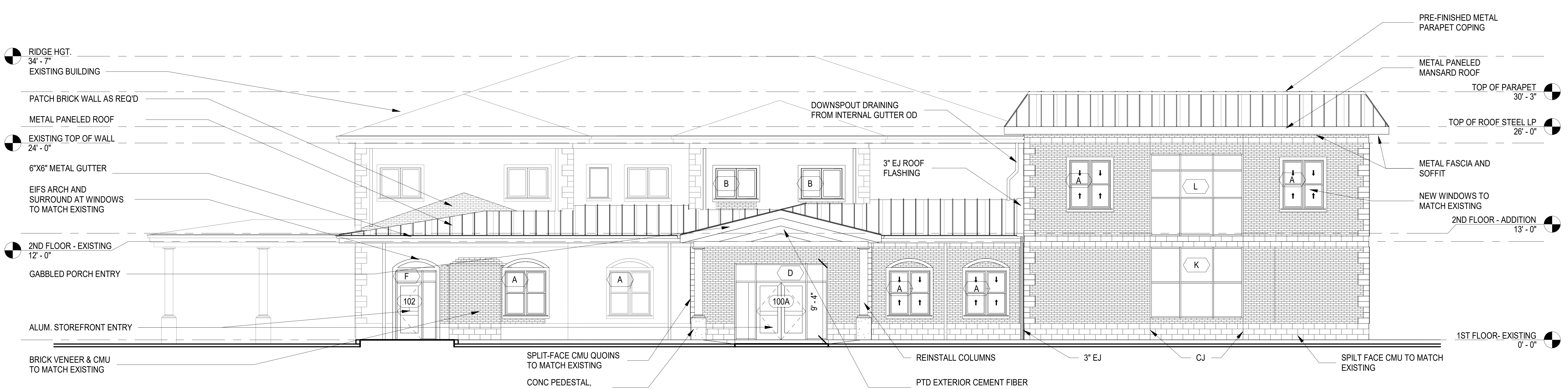
BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

ENLARGED PLANS

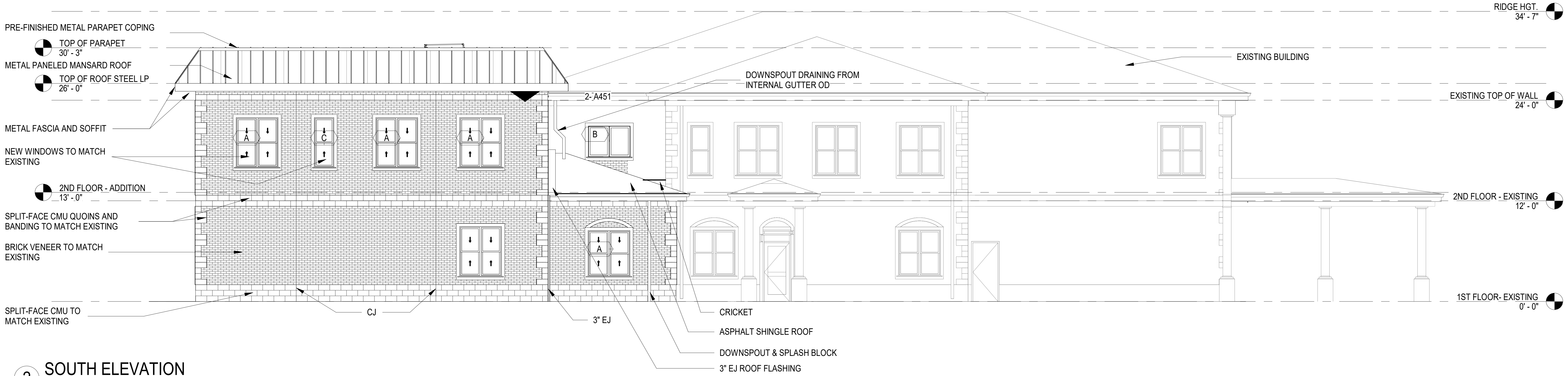
DRAWING NUMBER
A200

Plot Date: 8/19/2026 3:18:10 PM Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt



1 NORTH ELEVATION

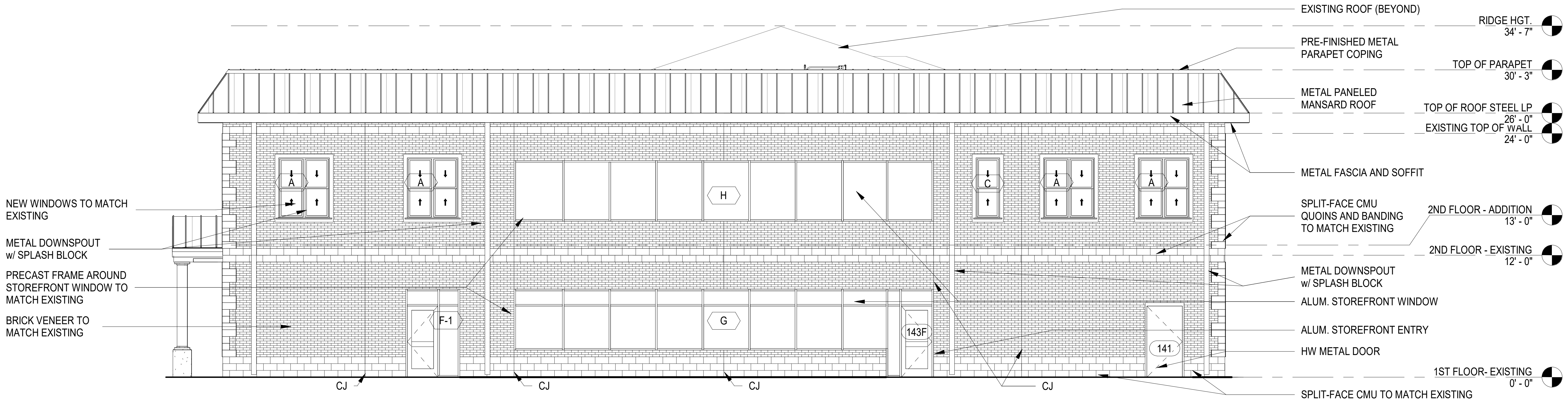
SCALE: 1/8" = 1'-0"



2 SOUTH ELEVATION

SCALE: 1/8" = 1'-0"

ALPHA BLDG SET 09-01-2026



3 WEST ELEVATION

SCALE: 1/8" = 1'-0"

Plot Date: 8/19/2026 3:18:13 PM

Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION
DOCUMENTS
07/01/2026

NCWSA OFFICE
ADDITION

REVISIONS

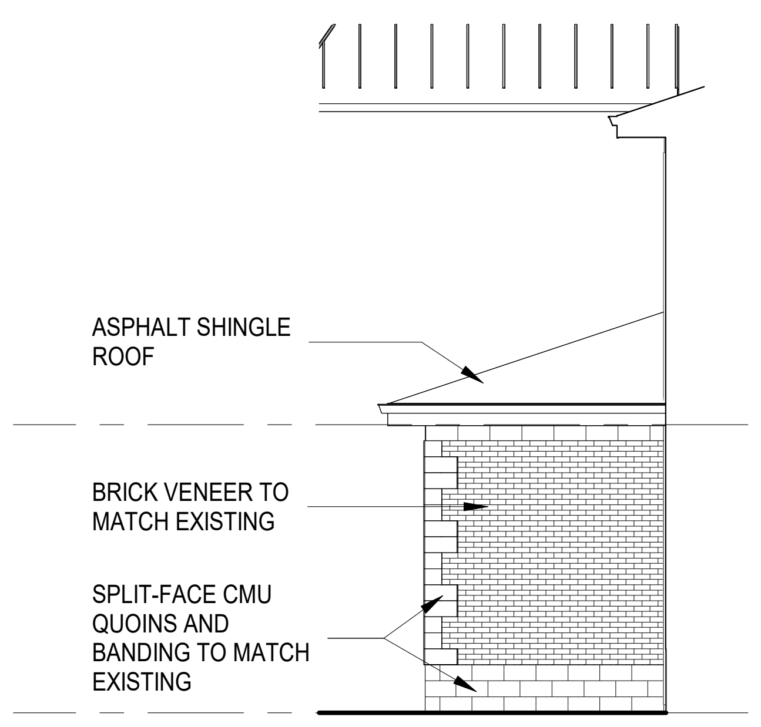
REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: MW4
CHECKED: DEK
CHECKED:
APPROVED: Approver
FILENAME
BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

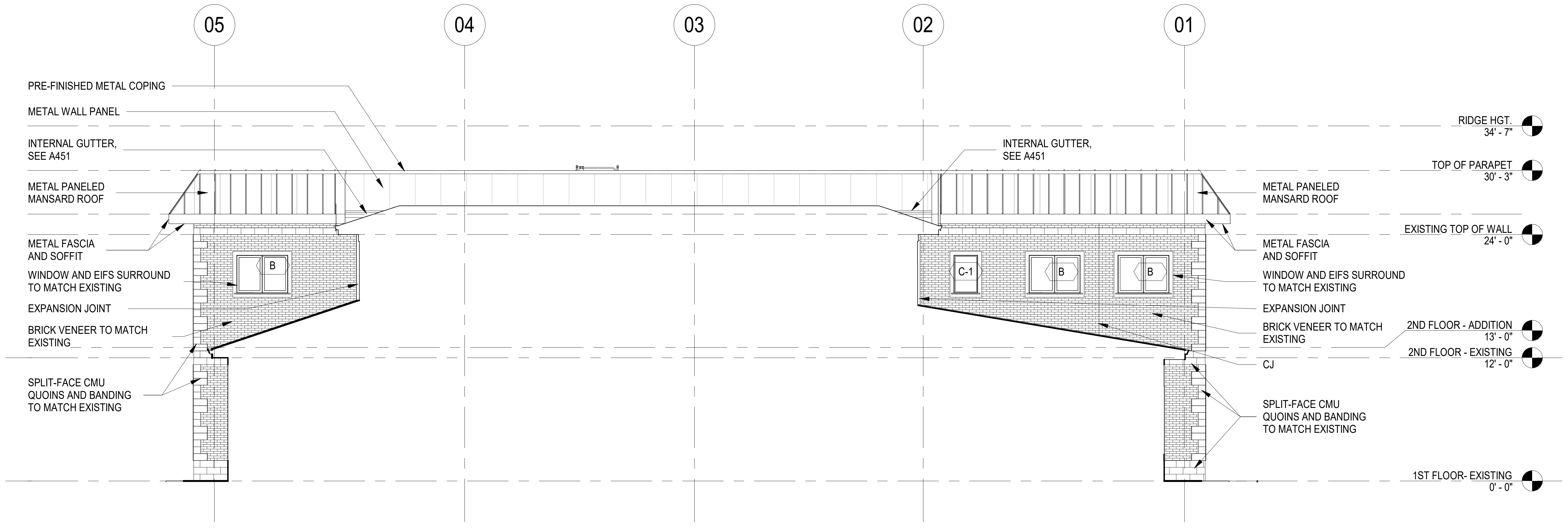
CONSTRUCTION
ELEVATIONS

DRAWING NUMBER
A301


ASPHALT SHINGLE ROOF
BRICK VENEER TO MATCH EXISTING
SPLIT-FACE CMU QUOINS AND BANDING TO MATCH EXISTING

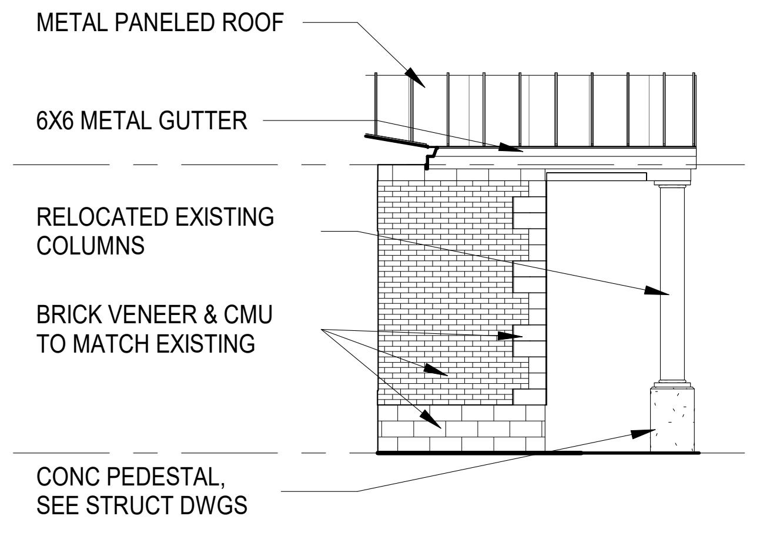
1 EAST ELEVATION - PARTIAL @ KITCHEN

SCALE: 1/8" = 1'-0"


05
04
03
02
01
PRE-FINISHED METAL COPING
METAL WALL PANEL
INTERNAL GUTTER, SEE A451
METAL PANELED MANSARD ROOF
METAL FASCIA AND SOFFIT
WINDOW AND EIFS SURROUND TO MATCH EXISTING
EXPANSION JOINT
BRICK VENEER TO MATCH EXISTING
SPLIT-FACE CMU QUOINS AND BANDING TO MATCH EXISTING
B
INTERNAL GUTTER, SEE A451
C-1
B
B
METAL PANELED MANSARD ROOF
METAL FASCIA AND SOFFIT
WINDOW AND EIFS SURROUND TO MATCH EXISTING
EXPANSION JOINT
BRICK VENEER TO MATCH EXISTING
CJ
SPLIT-FACE CMU QUOINS AND BANDING TO MATCH EXISTING
RIDGE HGT. 34' - 7"
TOP OF PARAPET 30' - 3"
EXISTING TOP OF WALL 24' - 0"
2ND FLOOR - ADDITION 13' - 0"
2ND FLOOR - EXISTING 12' - 0"
1ST FLOOR- EXISTING 0' - 0"

2 EAST ELEVATION - PARTIAL @ ADDITION

SCALE: 1/8" = 1'-0"


METAL PANELED ROOF
6X6 METAL GUTTER
RELOCATED EXISTING COLUMNS
BRICK VENEER & CMU TO MATCH EXISTING
CONC PEDESTAL, SEE STRUCT DWGS

3 EAST ELEVATION - PARTIAL @ ENTRY

SCALE: 1/8" = 1'-0"

ALPHA BLDG SET 09-01-2026

Plot Date: 8/19/2026 3:18:14 PM

Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

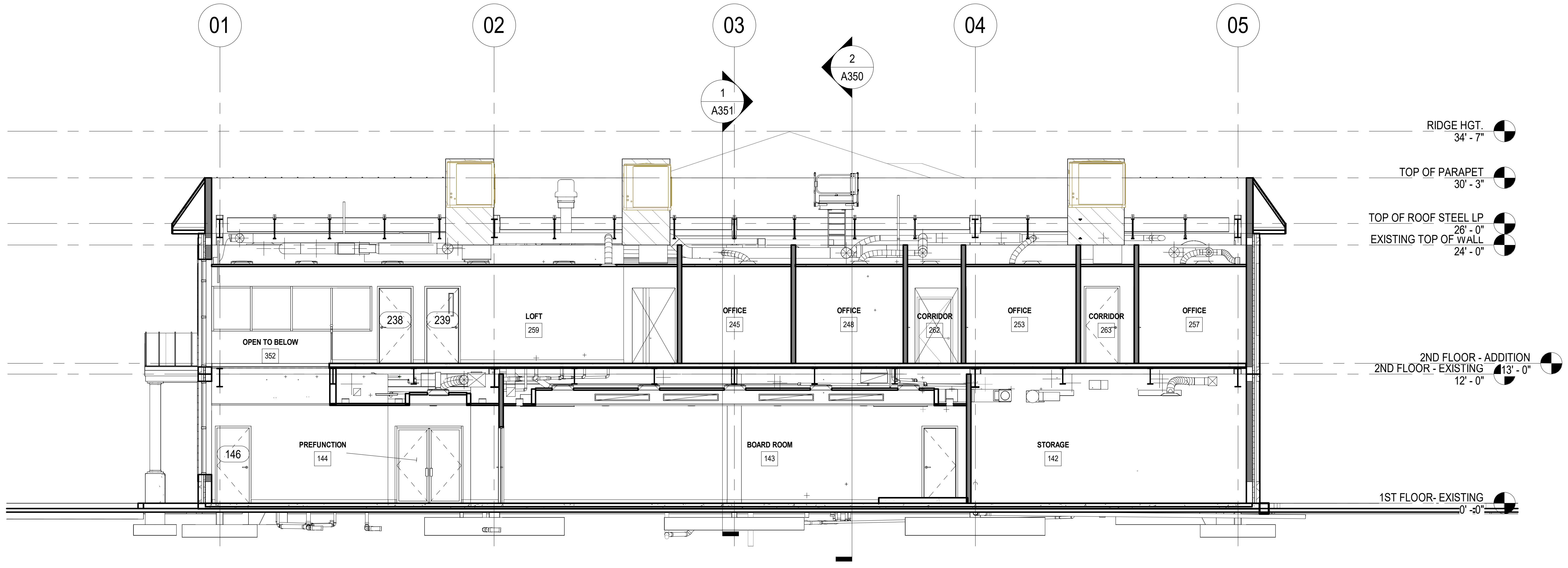
REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: MW4
DRAWN: MW4
CHECKED: DEK
CHECKED:
APPROVED: Approver
FILENAME
BC PROJECT NUMBER 616202
CLIENT PROJECT NUMBER

CONSTRUCTION ELEVATIONS

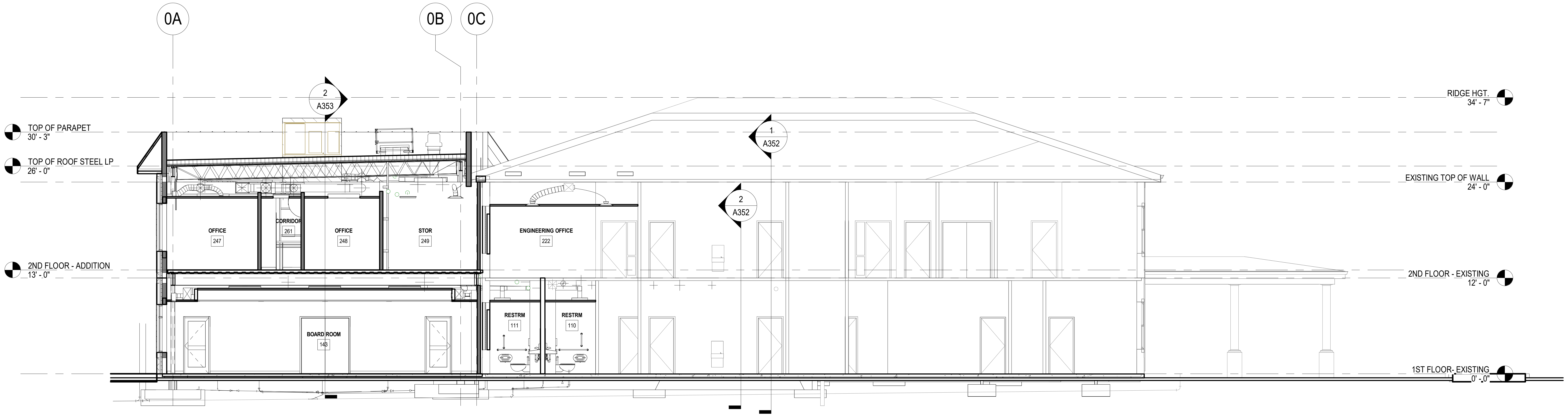
DRAWING NUMBER
A302



1 SECTION AA - ADDITION

SCALE: 1/8" = 1'-0"

ALPHA BLDG SET 09-01-2026



2 SECTION BB - SOUTH CORRIDOR

SCALE: 1/8" = 1'-0"

Plot Date: 8/19/2026 3:18:17 PM

Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

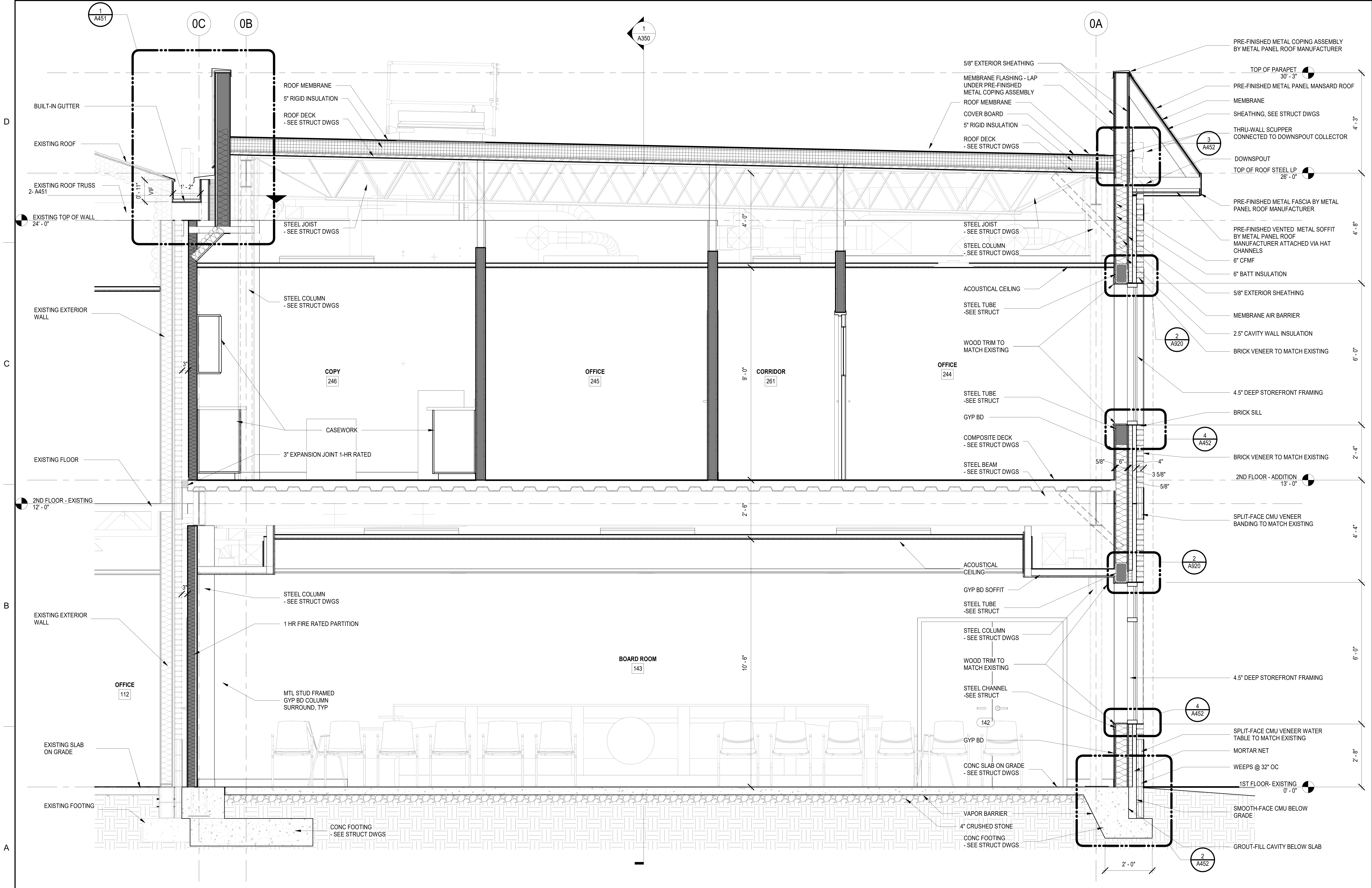
FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

BUILDING SECTIONS

DRAWING NUMBER
A350



1 SECTION THRU ADDITION
SCALE: 1/2" = 1'-0"

ALPHA BLDG SET 09-01-2026

Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

Plot Date: 8/19/2026 3:18:20 PM

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MARK A. CUNNINGHAM
REGISTERED ARCHITECT
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA
NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: MW4
DRAWN: MW4
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

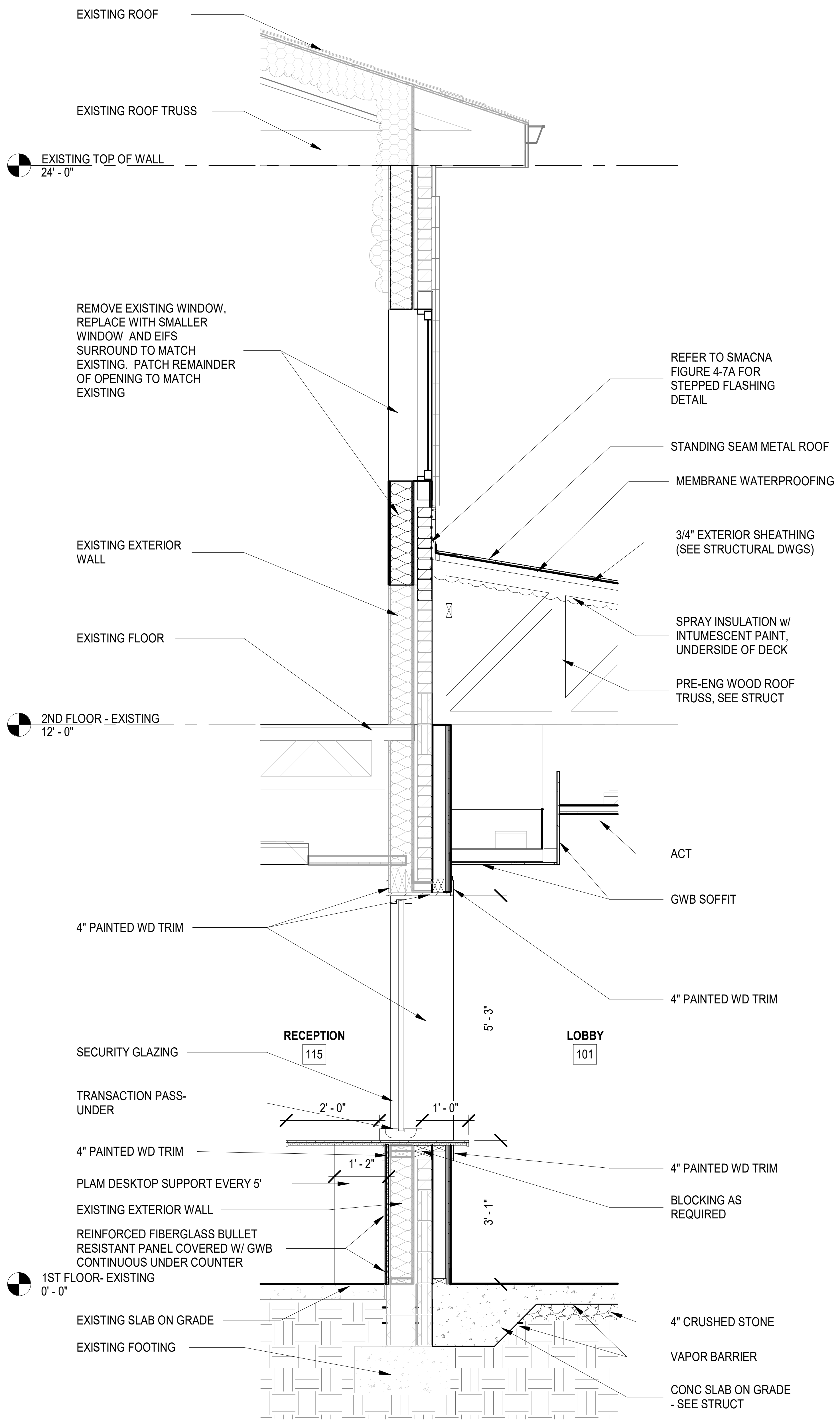
BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

WALL SECTIONS

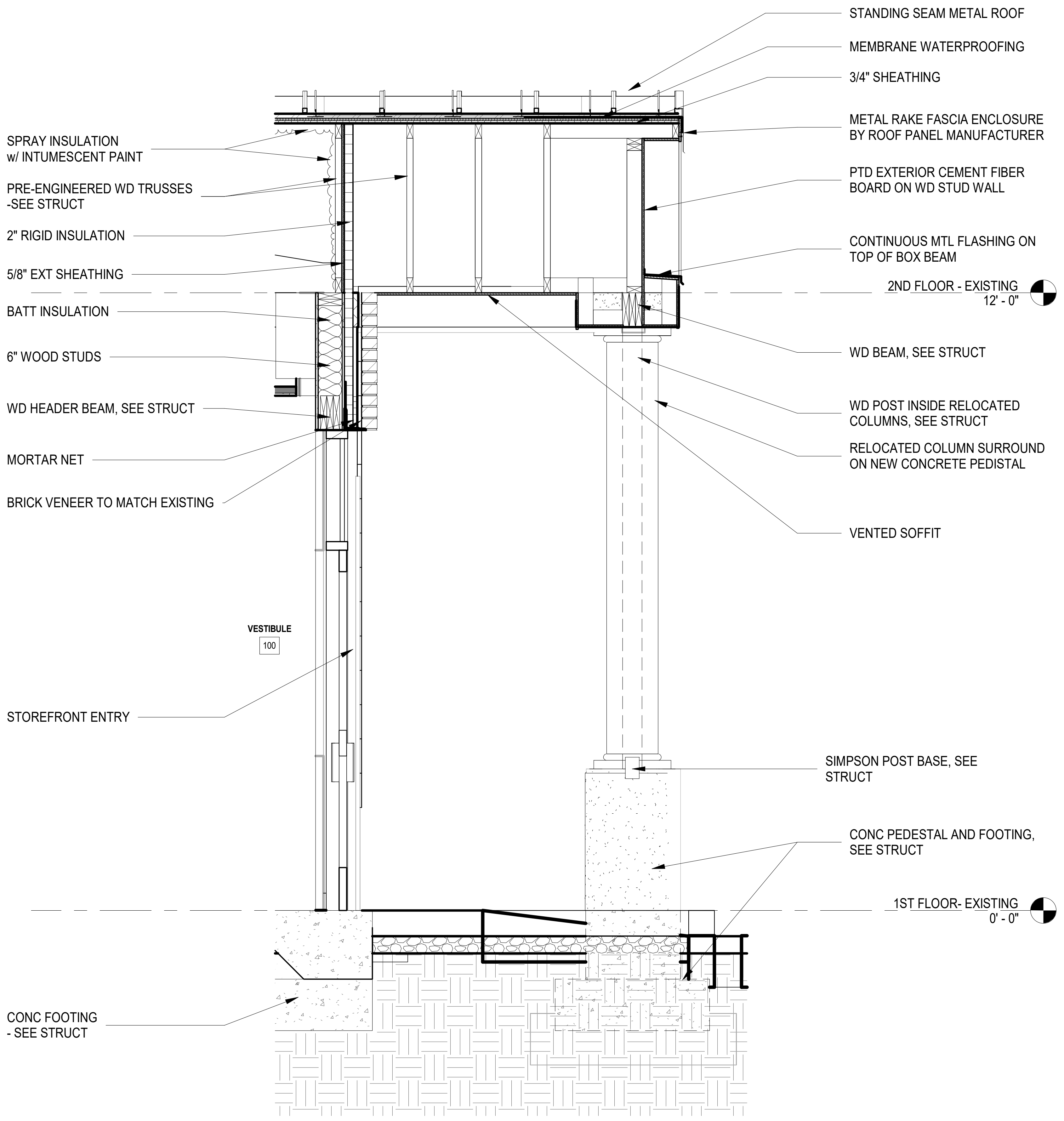
DRAWING NUMBER
A351

ALPHA BLDG SET 09-01-2026



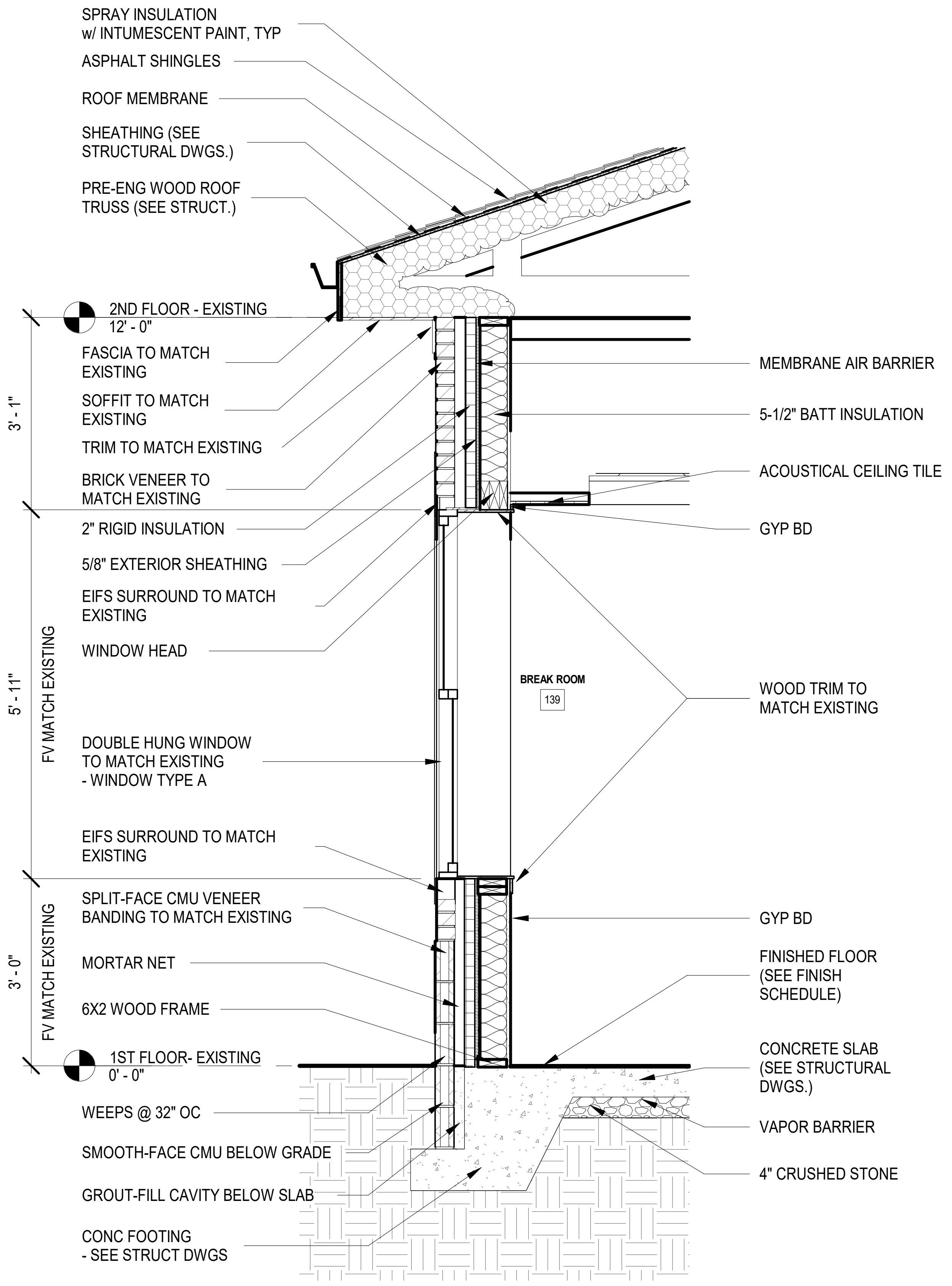
1 SECTION THRU RECEPTION

SCALE: 1/2" = 1'-0"


STANDING SEAM METAL ROOF
MEMBRANE WATERPROOFING
3/4" SHEATHING
METAL RAKE FASCIA ENCLOSURE BY ROOF PANEL MANUFACTURER
SPRAY INSULATION w/ INTUMESCENT PAINT
PRE-ENGINEERED WD TRUSSES -SEE STRUCT
PTD EXTERIOR CEMENT FIBER BOARD ON WD STUD WALL
2" RIGID INSULATION
CONTINUOUS MTL FLASHING ON TOP OF BOX BEAM
5/8" EXT SHEATHING
2ND FLOOR - EXISTING
12' - 0"
BATT INSULATION
WD BEAM, SEE STRUCT
6" WOOD STUDS
WD HEADER BEAM, SEE STRUCT
WD POST INSIDE RELOCATED COLUMNS, SEE STRUCT
MORTAR NET
RELOCATED COLUMN SURROUND ON NEW CONCRETE PEDISTAL
BRICK VENEER TO MATCH EXISTING
VENTED SOFFIT
VESTIBULE
100
STOREFRONT ENTRY
SIMPSON POST BASE, SEE STRUCT
CONC PEDASTAL AND FOOTING, SEE STRUCT
1ST FLOOR- EXISTING
0' - 0"
CONC FOOTING - SEE STRUCT

2 SECTION THRU ENTRY

SCALE: 1/2" = 1'-0"


SPRAY INSULATION w/ INTUMESCENT PAINT, TYP
ASPHALT SHINGLES
ROOF MEMBRANE
SHEATHING (SEE STRUCTURAL DWGS.)
PRE-ENG WOOD ROOF TRUSS (SEE STRUCT.)
2ND FLOOR - EXISTING
12' - 0"
FASCIA TO MATCH EXISTING
MEMBRANE AIR BARRIER
3' - 1"
SOFFIT TO MATCH EXISTING
5-1/2" BATT INSULATION
TRIM TO MATCH EXISTING
BRICK VENEER TO MATCH EXISTING
ACOUSTICAL CEILING TILE
2" RIGID INSULATION
GYP BD
5/8" EXTERIOR SHEATHING
EIFS SURROUND TO MATCH EXISTING
FV MATCH EXISTING
WINDOW HEAD
5' - 11"
BREAK ROOM
139
WOOD TRIM TO MATCH EXISTING
DOUBLE HUNG WINDOW TO MATCH EXISTING - WINDOW TYPE A
EIFS SURROUND TO MATCH EXISTING
SPLIT-FACE CMU VENEER BANDING TO MATCH EXISTING
GYP BD
FV MATCH EXISTING
3' - 0"
MORTAR NET
FINISHED FLOOR (SEE FINISH SCHEDULE)
6X2 WOOD FRAME
CONCRETE SLAB (SEE STRUCTURAL DWGS.)
1ST FLOOR- EXISTING
0' - 0"
WEEPS @ 32" OC
VAPOR BARRIER
SMOOTH-FACE CMU BELOW GRADE
4" CRUSHED STONE
GROUT-FILL CAVITY BELOW SLAB
CONC FOOTING - SEE STRUCT DWGS

3 SECTION THRU BREAK RM

SCALE: 1/2" = 1'-0"

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA

NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: MW4
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

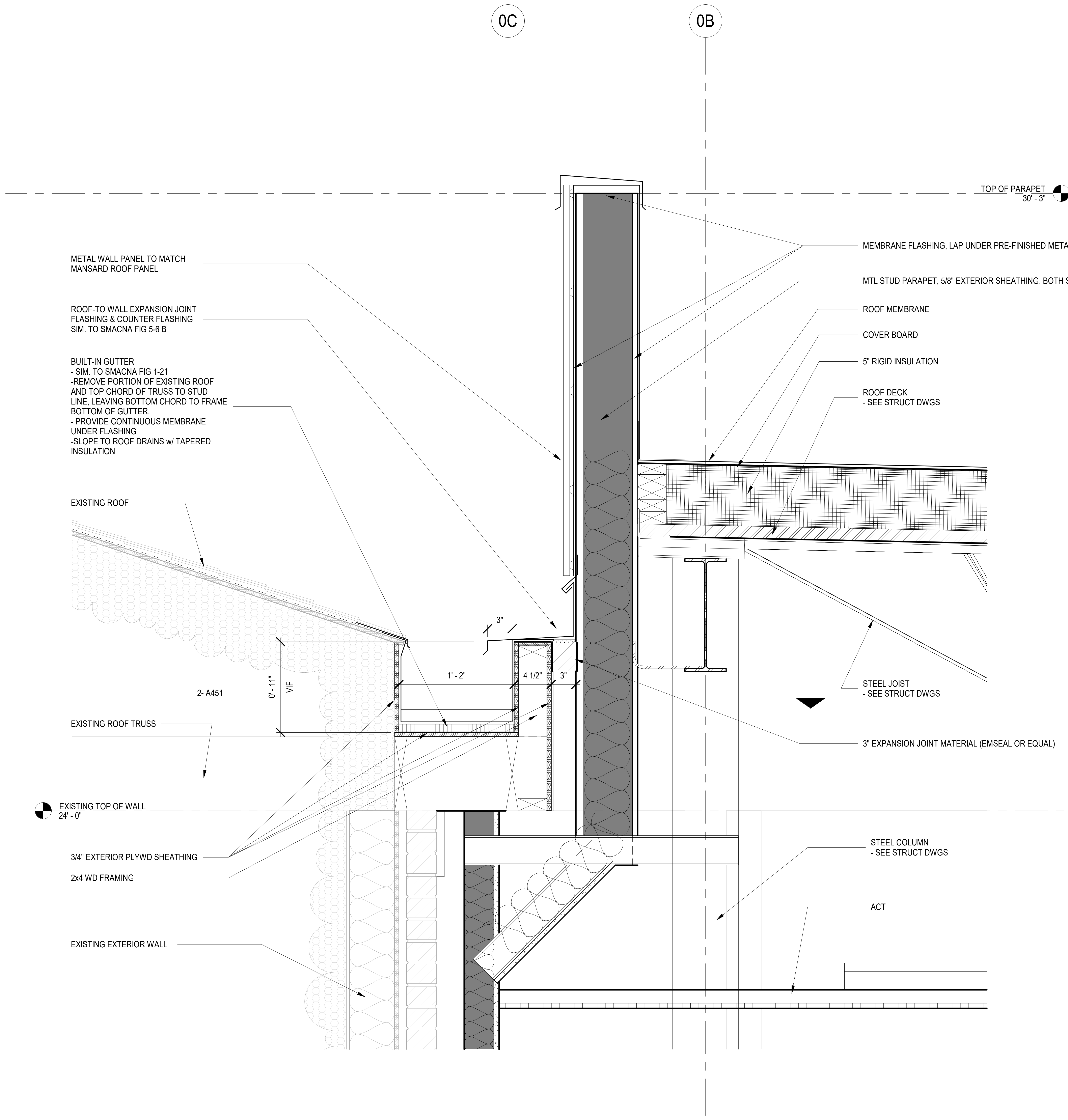
WALL SECTIONS

DRAWING NUMBER
A352

Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

Plot Date: 8/19/2026 3:18:21 PM

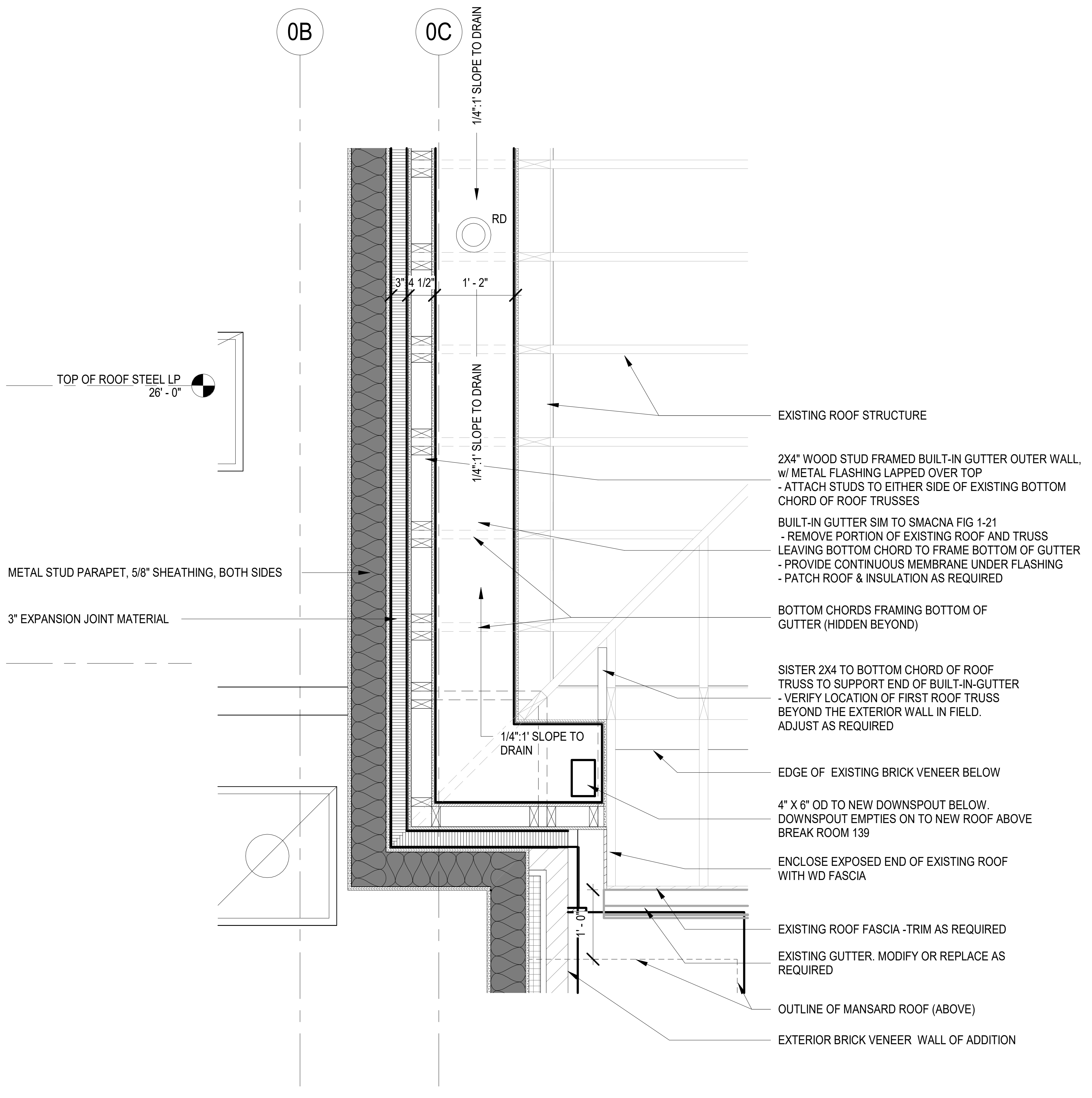
ALPHA BLDG SET 09-01-2026



0C
0B
TOP OF PARAPET
30' - 3"
MEMBRANE FLASHING, LAP UNDER PRE-FINISHED METAL COPING ASSEMBLY
MTL STUD PARAPET, 5/8" EXTERIOR SHEATHING, BOTH SIDES
METAL WALL PANEL TO MATCH MANSARD ROOF PANEL
ROOF MEMBRANE
ROOF-TO WALL EXPANSION JOINT FLASHING & COUNTER FLASHING SIM. TO SMACNA FIG 5-6 B
COVER BOARD
5" RIGID INSULATION
BUILT-IN GUTTER
- SIM. TO SMACNA FIG 1-21
-REMOVE PORTION OF EXISTING ROOF AND TOP CHORD OF TRUSS TO STUD LINE, LEAVING BOTTOM CHORD TO FRAME BOTTOM OF GUTTER.
- PROVIDE CONTINUOUS MEMBRANE UNDER FLASHING
-SLOPE TO ROOF DRAINS w/ TAPERED INSULATION
ROOF DECK
- SEE STRUCT DWGS
EXISTING ROOF
TOP OF ROOF STEEL LP
26' - 0"
3"
1' - 2"
4 1/2"
3"
2- A451
0' - 11"
VIF
STEEL JOIST
- SEE STRUCT DWGS
EXISTING ROOF TRUSS
3" EXPANSION JOINT MATERIAL (EMSEAL OR EQUAL)
EXISTING TOP OF WALL
24' - 0"
3/4" EXTERIOR PLYWD SHEATHING
STEEL COLUMN
- SEE STRUCT DWGS
2x4 WD FRAMING
ACT
EXISTING EXTERIOR WALL

1 INTERNAL GUTTER

SCALE: 1 1/2" = 1'-0"



0B
0C
1/4":1' SLOPE TO DRAIN
RD
3"
4 1/2"
1' - 2"
1/4":1' SLOPE TO DRAIN
EXISTING ROOF STRUCTURE
2X4" WOOD STUD FRAMED BUILT-IN GUTTER OUTER WALL, w/ METAL FLASHING LAPPED OVER TOP
- ATTACH STUDS TO EITHER SIDE OF EXISTING BOTTOM CHORD OF ROOF TRUSSES
BUILT-IN GUTTER SIM TO SMACNA FIG 1-21
- REMOVE PORTION OF EXISTING ROOF AND TRUSS LEAVING BOTTOM CHORD TO FRAME BOTTOM OF GUTTER
- PROVIDE CONTINUOUS MEMBRANE UNDER FLASHING
- PATCH ROOF & INSULATION AS REQUIRED
METAL STUD PARAPET, 5/8" SHEATHING, BOTH SIDES
BOTTOM CHORDS FRAMING BOTTOM OF GUTTER (HIDDEN BEYOND)
3" EXPANSION JOINT MATERIAL
SISTER 2X4 TO BOTTOM CHORD OF ROOF TRUSS TO SUPPORT END OF BUILT-IN-GUTTER
- VERIFY LOCATION OF FIRST ROOF TRUSS BEYOND THE EXTERIOR WALL IN FIELD. ADJUST AS REQUIRED
1/4":1' SLOPE TO DRAIN
EDGE OF EXISTING BRICK VENEER BELOW
4" X 6" OD TO NEW DOWNSPOUT BELOW. DOWNSPOUT EMPTIES ON TO NEW ROOF ABOVE BREAK ROOM 139
ENCLOSE EXPOSED END OF EXISTING ROOF WITH WD FASCIA
1' - 0"
EXISTING ROOF FASCIA -TRIM AS REQUIRED
EXISTING GUTTER. MODIFY OR REPLACE AS REQUIRED
OUTLINE OF MANSARD ROOF (ABOVE)
EXTERIOR BRICK VENEER WALL OF ADDITION

2 PLAN DET @ INTERNAL GUTTER

SCALE: 3/4" = 1'-0"

Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

Plot Date: 8/19/2026 3:18:22 PM

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: MW4
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

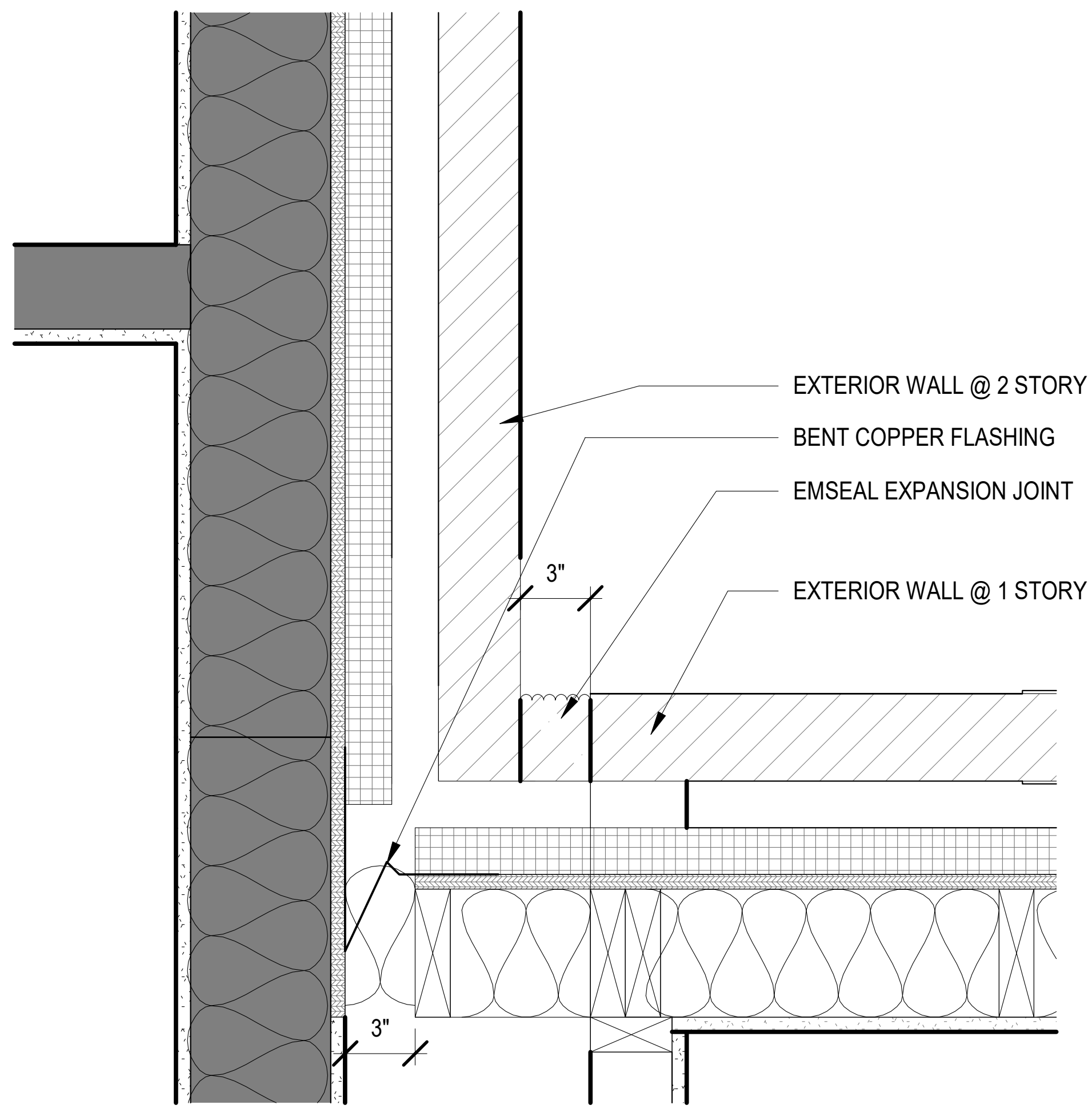
BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

DETAILS

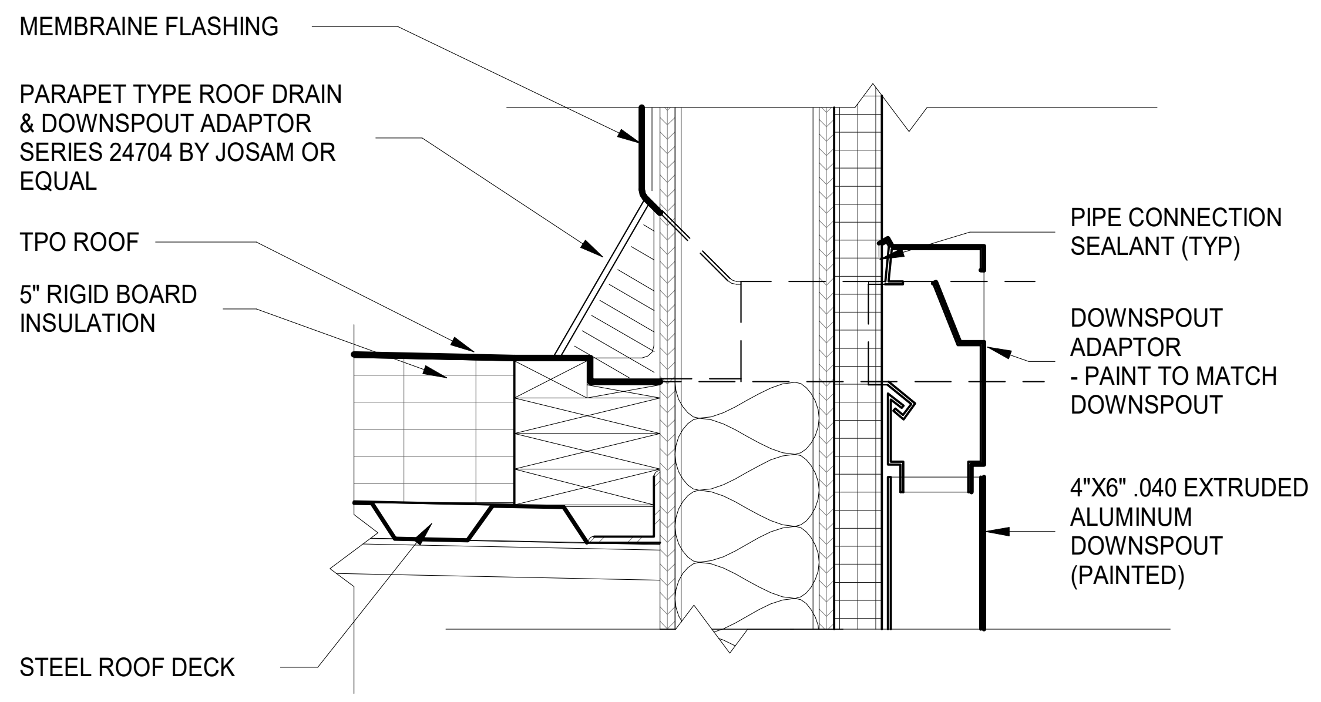
DRAWING NUMBER
A451

ALPHA BLDG SET 09-01-2026


EXTERIOR WALL @ 2 STORY ADDITION
BENT COPPER FLASHING
EMSEAL EXPANSION JOINT
EXTERIOR WALL @ 1 STORY ADDITION
3"
3"

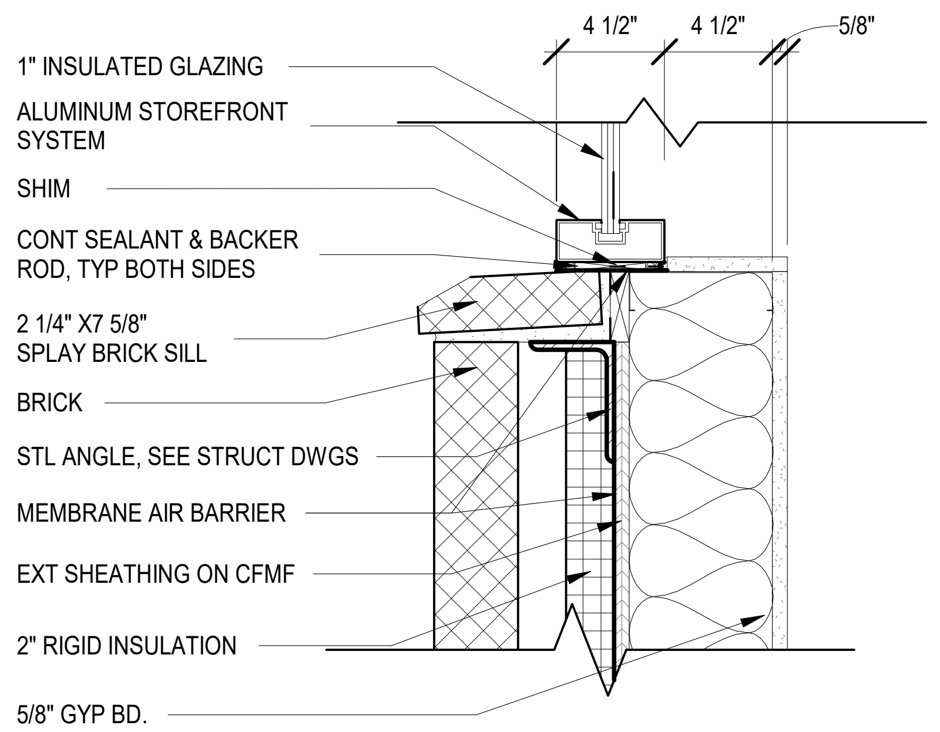
1 EXT WALL EXPANSION JOINT

SCALE: 1 1/2" = 1'-0"


MEMBRAINE FLASHING
PARAPET TYPE ROOF DRAIN & DOWNSPOUT ADAPTOR SERIES 24704 BY JOSAM OR EQUAL
TPO ROOF
5" RIGID BOARD INSULATION
STEEL ROOF DECK
PIPE CONNECTION SEALANT (TYP)
DOWNSPOUT ADAPTOR - PAINT TO MATCH DOWNSPOUT
4"X6" .040 EXTRUDED ALUMINUM DOWNSPOUT (PAINTED)

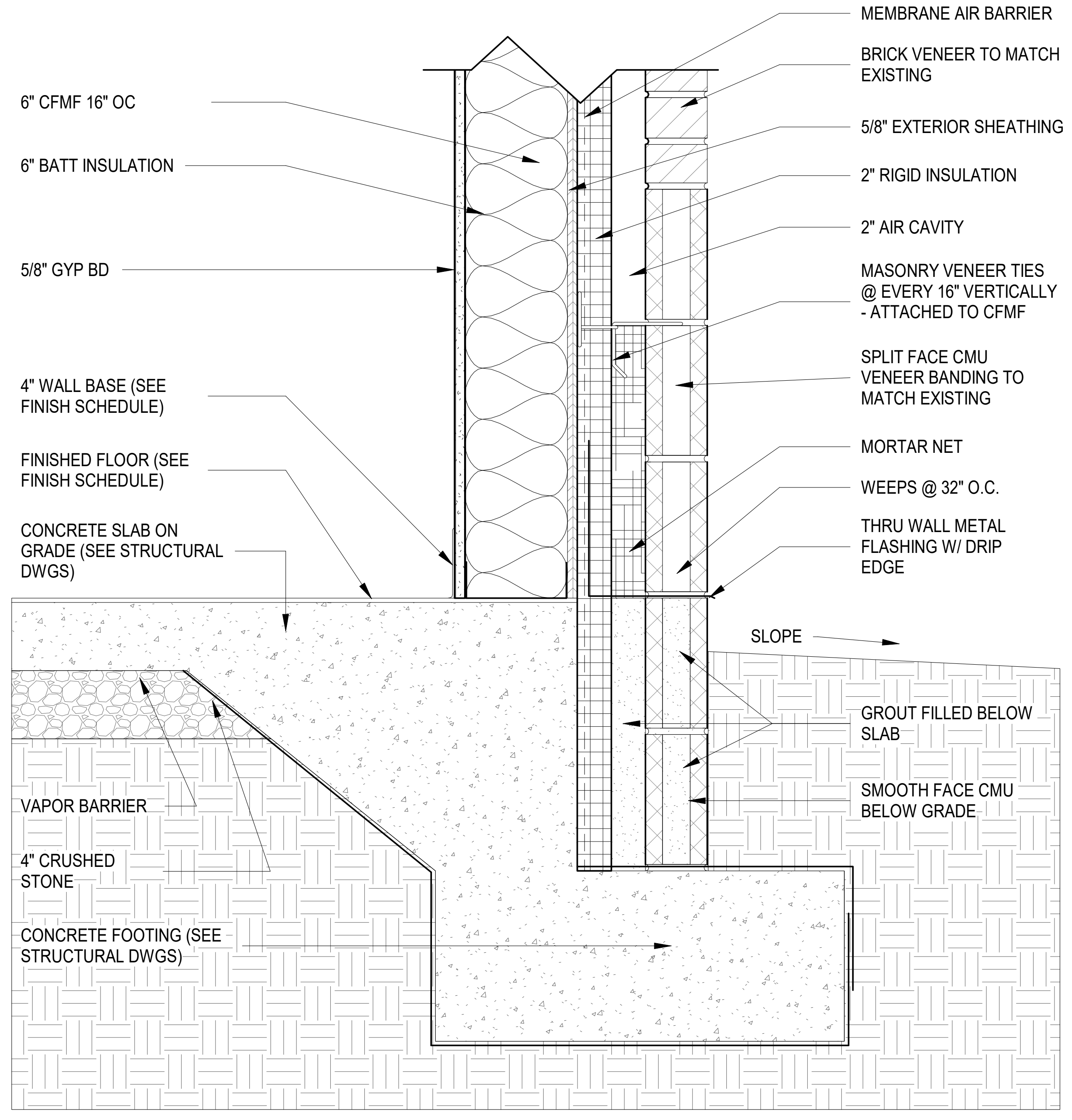
3 DETAIL - THRU WALL DETAIL

SCALE: 1 1/2" = 1'-0"


4 1/2"
4 1/2"
5/8"
1" INSULATED GLAZING
ALUMINUM STOREFRONT SYSTEM
SHIM
CONT SEALANT & BACKER ROD, TYP BOTH SIDES
2 1/4" X7 5/8" SPLAY BRICK SILL
BRICK
STL ANGLE, SEE STRUCT DWGS
MEMBRANE AIR BARRIER
EXT SHEATHING ON CFMF
2" RIGID INSULATION
5/8" GYP BD.

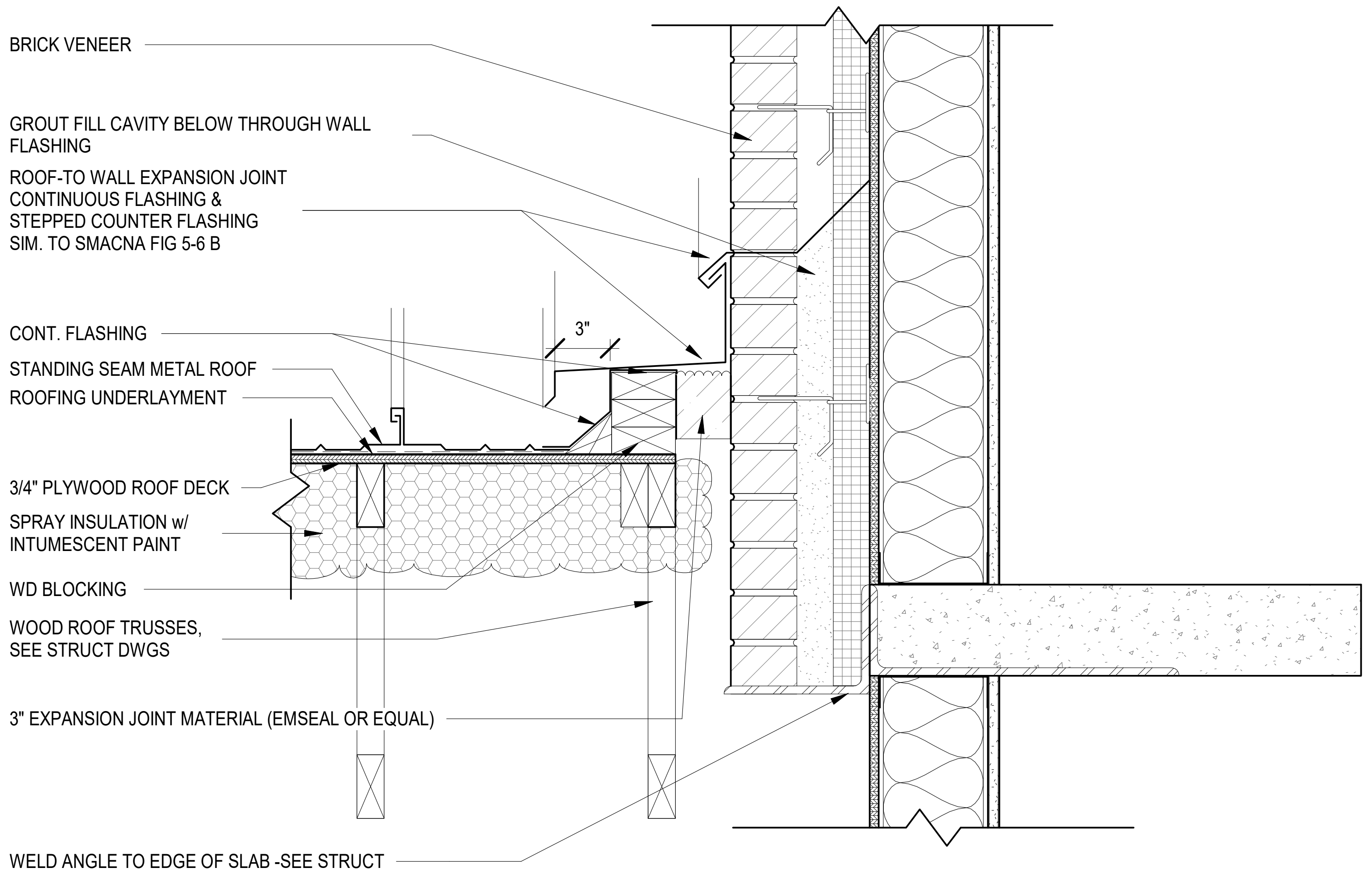
4 EXT STOREFRONT SILL @ MASONRY

SCALE: 1 1/2" = 1'-0"


6" CFMF 16" OC
6" BATT INSULATION
5/8" GYP BD
4" WALL BASE (SEE FINISH SCHEDULE)
FINISHED FLOOR (SEE FINISH SCHEDULE)
CONCRETE SLAB ON GRADE (SEE STRUCTURAL DWGS)
VAPOR BARRIER
4" CRUSHED STONE
CONCRETE FOOTING (SEE STRUCTURAL DWGS)
MEMBRANE AIR BARRIER
BRICK VENEER TO MATCH EXISTING
5/8" EXTERIOR SHEATHING
2" RIGID INSULATION
2" AIR CAVITY
MASONRY VENEER TIES @ EVERY 16" VERTICALLY - ATTACHED TO CFMF
SPLIT FACE CMU VENEER BANDING TO MATCH EXISTING
MORTAR NET
WEEPS @ 32" O.C.
THRU WALL METAL FLASHING W/ DRIP EDGE
SLOPE
GROUT FILLED BELOW SLAB
SMOOTH FACE CMU BELOW GRADE

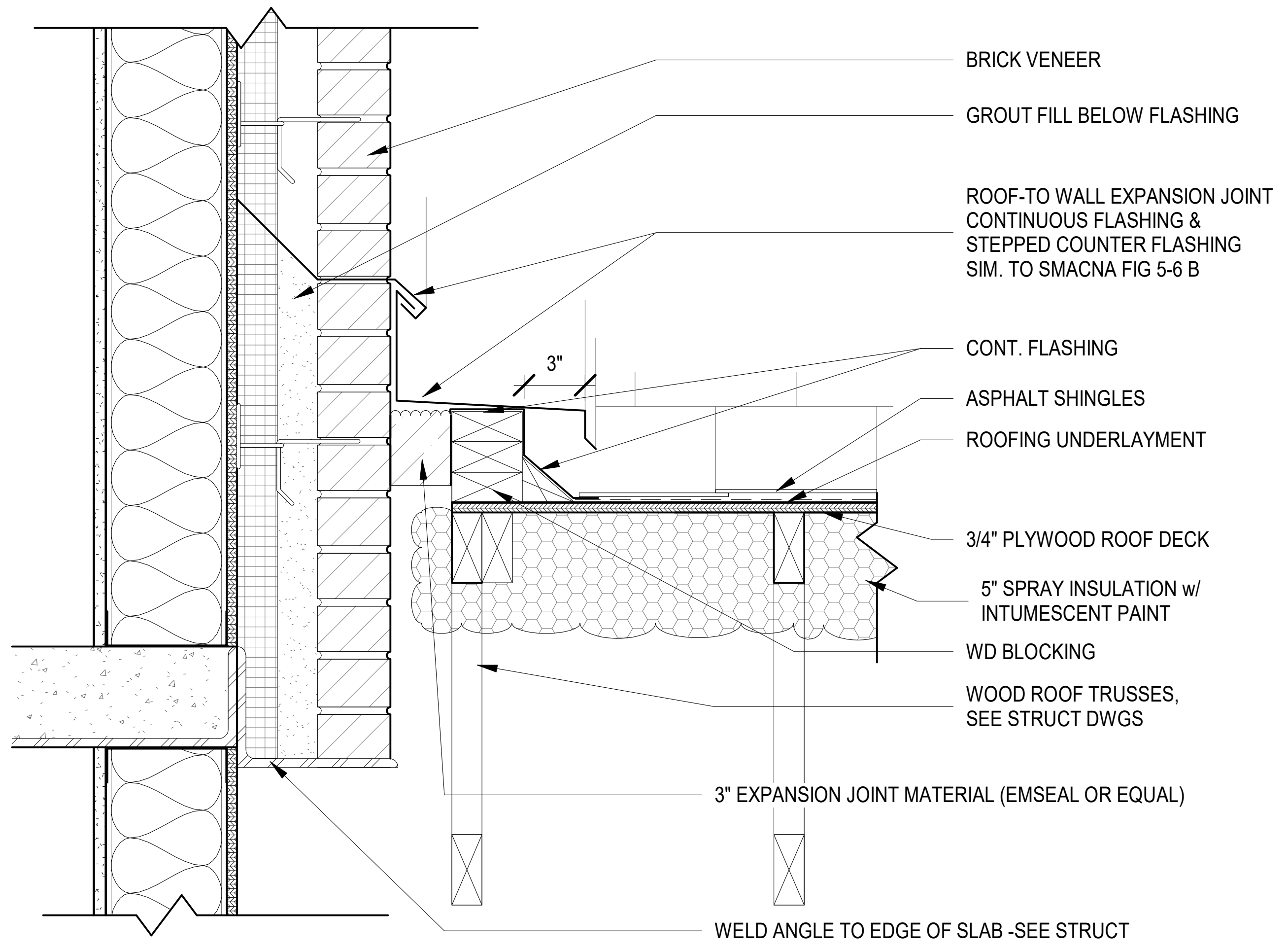
2 DETAIL - CMU WALL @ BASE

SCALE: 1 1/2" = 1'-0"


BRICK VENEER
GROUT FILL CAVITY BELOW THROUGH WALL FLASHING
ROOF-TO WALL EXPANSION JOINT CONTINUOUS FLASHING & STEPPED COUNTER FLASHING SIM. TO SMACNA FIG 5-6 B
CONT. FLASHING
3"
STANDING SEAM METAL ROOF
ROOFING UNDERLAYMENT
3/4" PLYWOOD ROOF DECK
SPRAY INSULATION w/ INTUMESCENT PAINT
WD BLOCKING
WOOD ROOF TRUSSES, SEE STRUCT DWGS
3" EXPANSION JOINT MATERIAL (EMSEAL OR EQUAL)
WELD ANGLE TO EDGE OF SLAB -SEE STRUCT

5 EXPANSION JOINT @ METAL ROOF

SCALE: 1 1/2" = 1'-0"


BRICK VENEER
GROUT FILL BELOW FLASHING
ROOF-TO WALL EXPANSION JOINT CONTINUOUS FLASHING & STEPPED COUNTER FLASHING SIM. TO SMACNA FIG 5-6 B
CONT. FLASHING
3"
ASPHALT SHINGLES
ROOFING UNDERLAYMENT
3/4" PLYWOOD ROOF DECK
5" SPRAY INSULATION w/ INTUMESCENT PAINT
WD BLOCKING
WOOD ROOF TRUSSES, SEE STRUCT DWGS
3" EXPANSION JOINT MATERIAL (EMSEAL OR EQUAL)
WELD ANGLE TO EDGE OF SLAB -SEE STRUCT

6 EXPANSION JOINT @ SHINGLE ROOF

SCALE: 1 1/2" = 1'-0"

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Plot Date: 8/19/2026 3:18:23 PM

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA
NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: MW4
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

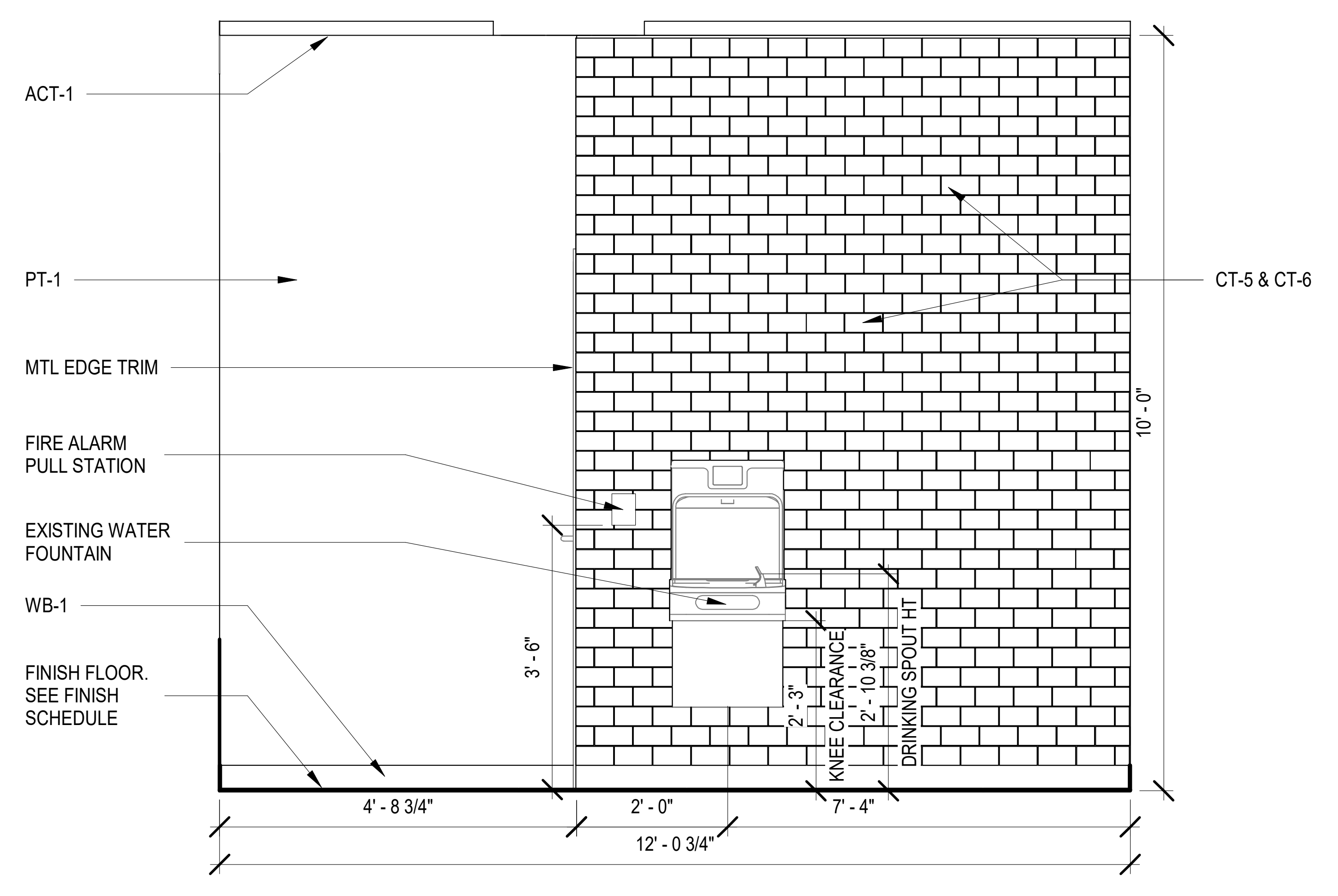
BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

DETAILS

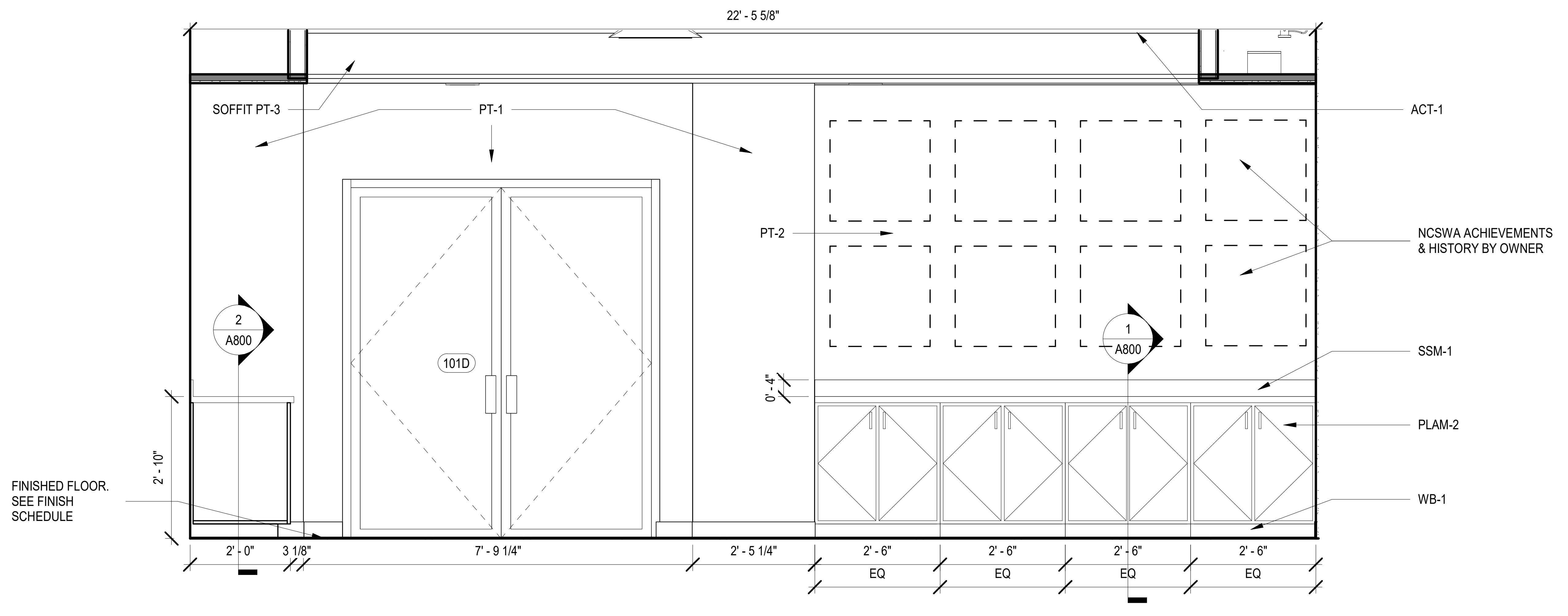
DRAWING NUMBER
A452

ALPHA BLDG SET 09-01-2026



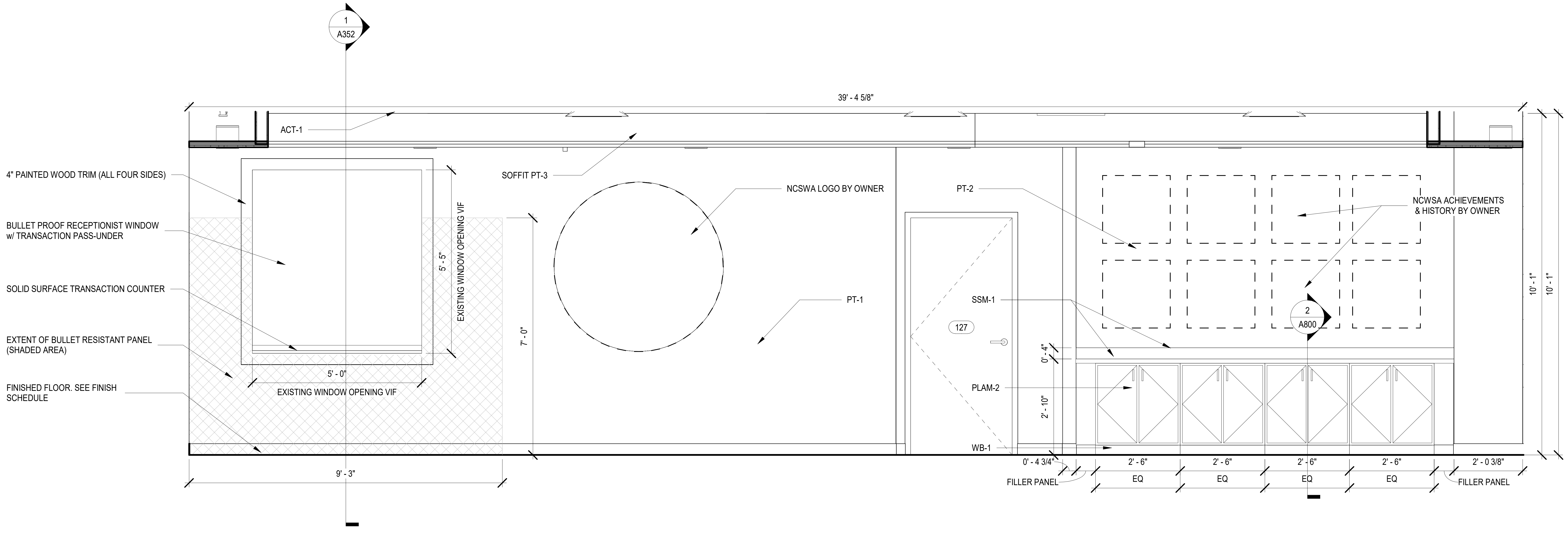
1 CUSTOMER LOBBY 100 - EAST ELEVATION

SCALE: 1/2" = 1'-0"



2 LOBBY 101 - WEST ELEVATION

SCALE: 1/2" = 1'-0"


1 A352
39' - 4 5/8"
ACT-1
4" PAINTED WOOD TRIM (ALL FOUR SIDES)
BULLET PROOF RECEPTIONIST WINDOW w/ TRANSACTION PASS-UNDER
SOLID SURFACE TRANSACTION COUNTER
EXTENT OF BULLET RESISTANT PANEL (SHADED AREA)
FINISHED FLOOR. SEE FINISH SCHEDULE
SOFFIT PT-3
NCWSA LOGO BY OWNER
PT-1
PT-2
NCWSA ACHIEVEMENTS & HISTORY BY OWNER
SSM-1
PLAM-2
WB-1
127
2 A800
5' - 5"
EXISTING WINDOW OPENING VIF
7' - 0"
5' - 0"
EXISTING WINDOW OPENING VIF
9' - 3"
0' - 4"
2' - 10"
10' - 1"
10' - 1"
0' - 4 3/4"
FILLER PANEL
2' - 6"
2' - 6"
2' - 6"
2' - 6"
EQ
EQ
EQ
EQ
2' - 0 3/8"
FILLER PANEL

3 LOBBY 101 - SOUTH ELEVATION

SCALE: 1/2" = 1'-0"

Plot Date: 8/19/2026 3:18:24 PM

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Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

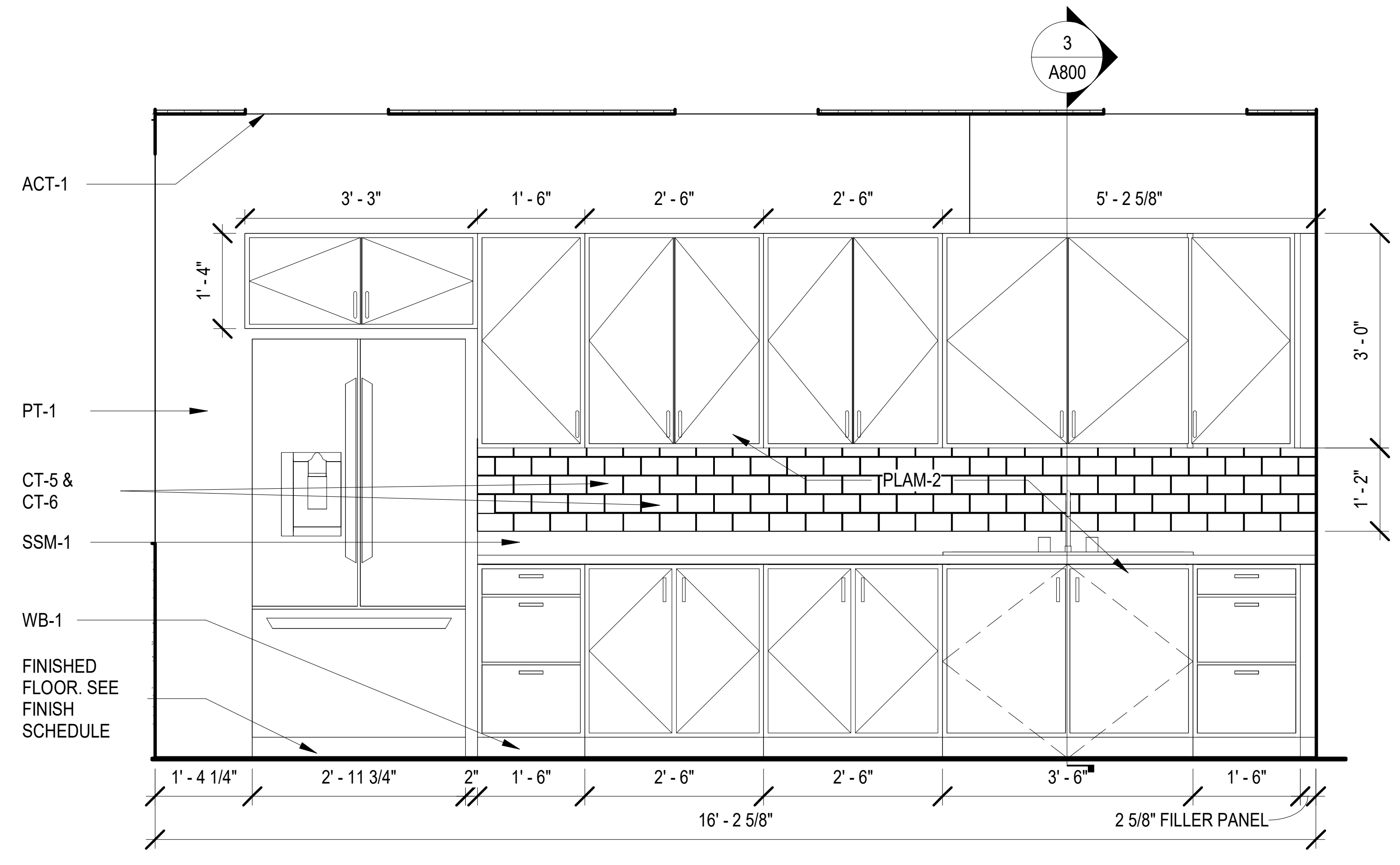
BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

INTERIOR ELEVATIONS

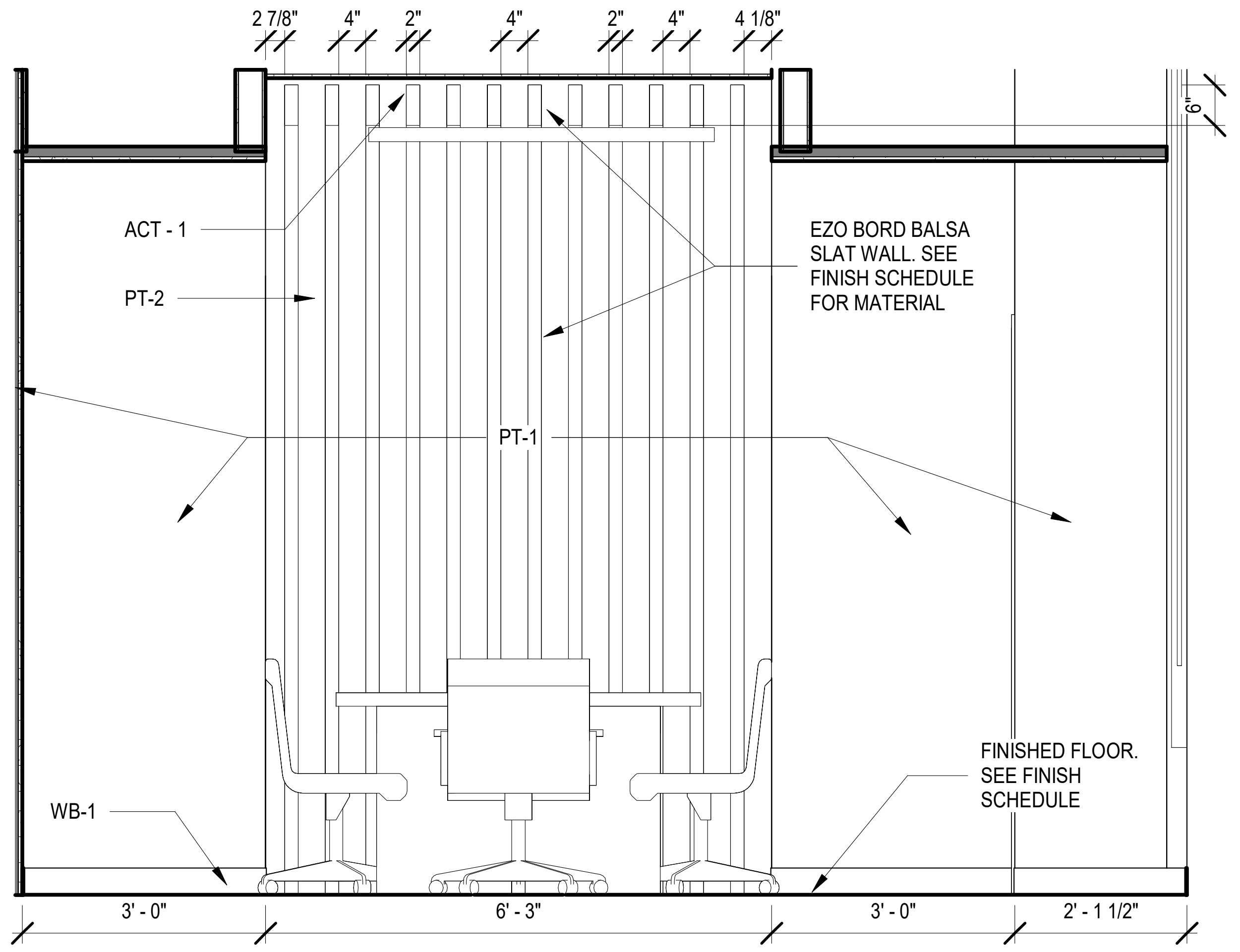
DRAWING NUMBER
A600

ALPHA BLDG SET 09-01-2026



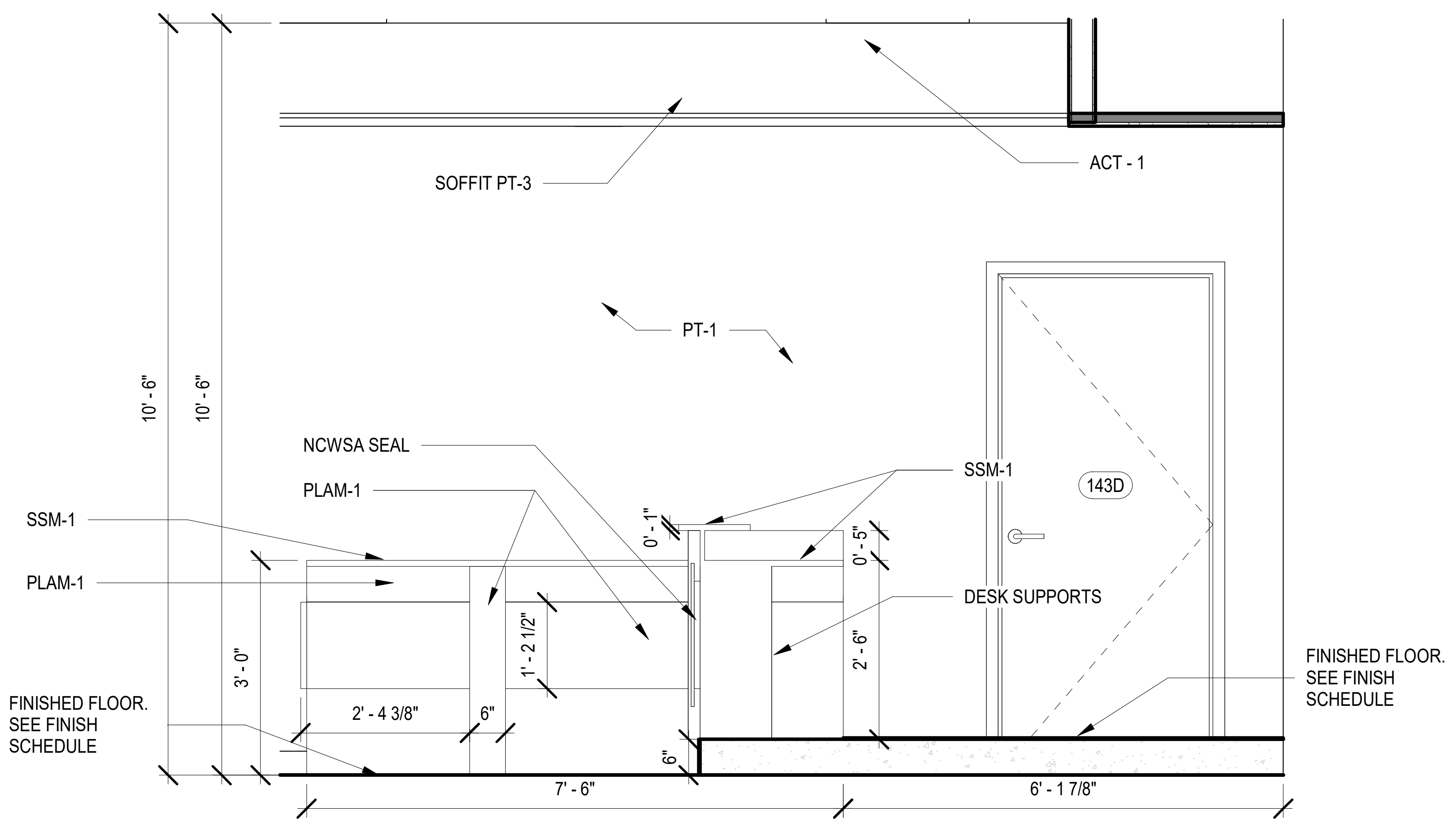
1 BREAK ROOM 139 - WEST ELEVATION

SCALE: 1/2" = 1'-0"


2 7/8"
4"
2"
4"
2"
4"
4 1/8"
6"
ACT - 1
PT-2
EZO BORD BALSA SLAT WALL. SEE FINISH SCHEDULE FOR MATERIAL
PT-1
FINISHED FLOOR. SEE FINISH SCHEDULE
WB-1
3' - 0"
6' - 3"
3' - 0"
2' - 1 1/2"

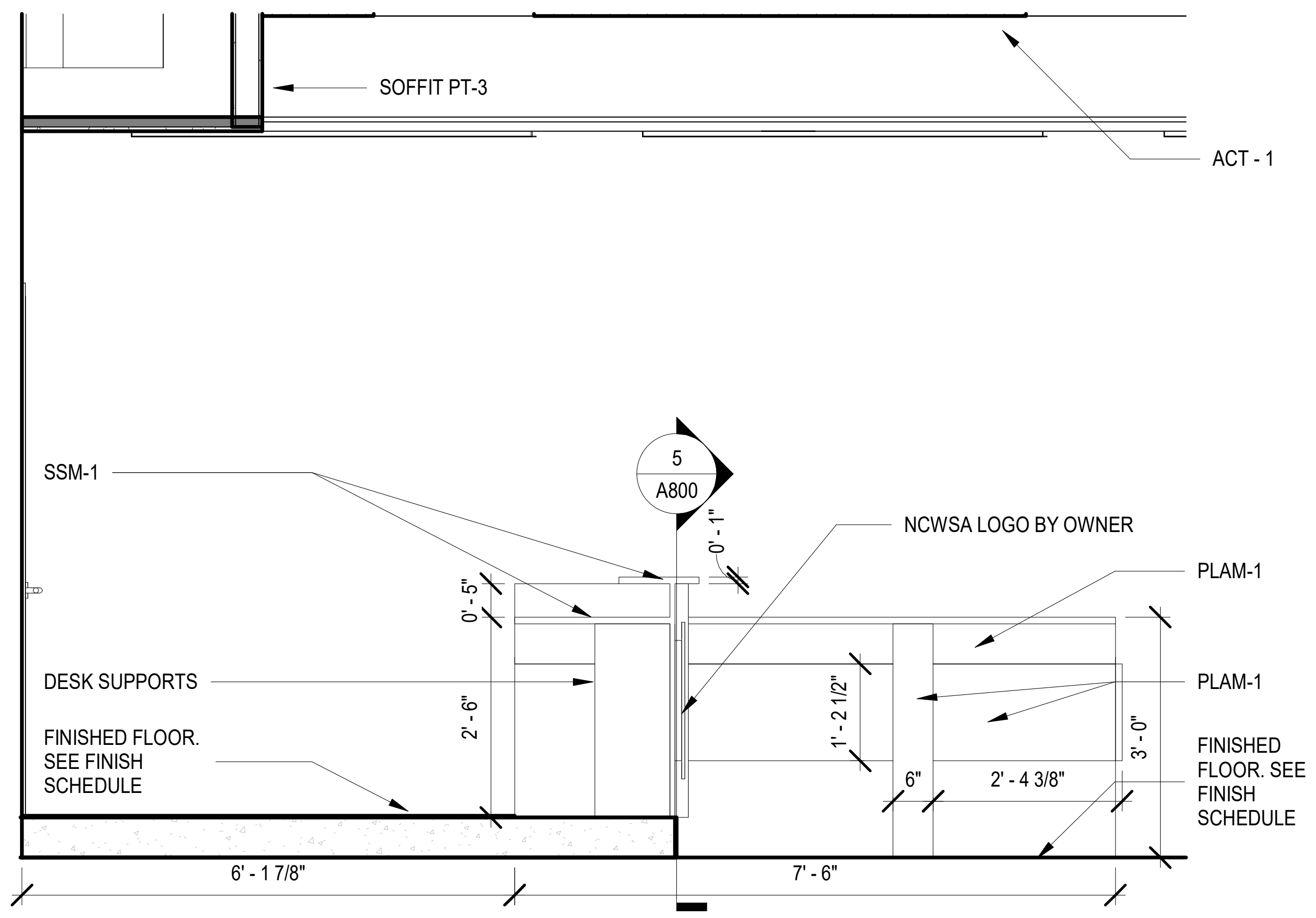
2 EXEC. CONF. RM 140 - NORTH ELEVATION

SCALE: 1/2" = 1'-0"



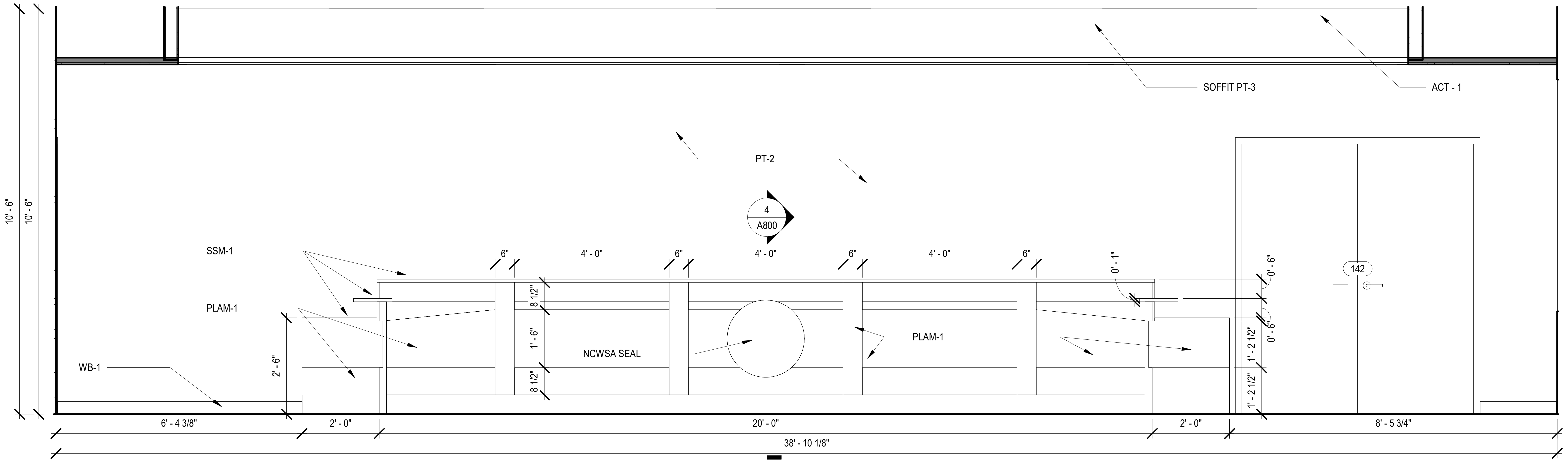
3 BOARD RM 143 - EAST ELEVATION

SCALE: 1/2" = 1'-0"



4 BOARD RM 143 - WEST ELEVATION

SCALE: 1/2" = 1'-0"



5 BOARD RM 143 - SOUTH ELEVATION

SCALE: 1/2" = 1'-0"

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Plot Date: 8/19/2026 3:18:25 PM

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

7/1/2026

CONSTRUCTION
DOCUMENTS
07/01/2026

NCWSA OFFICE
ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

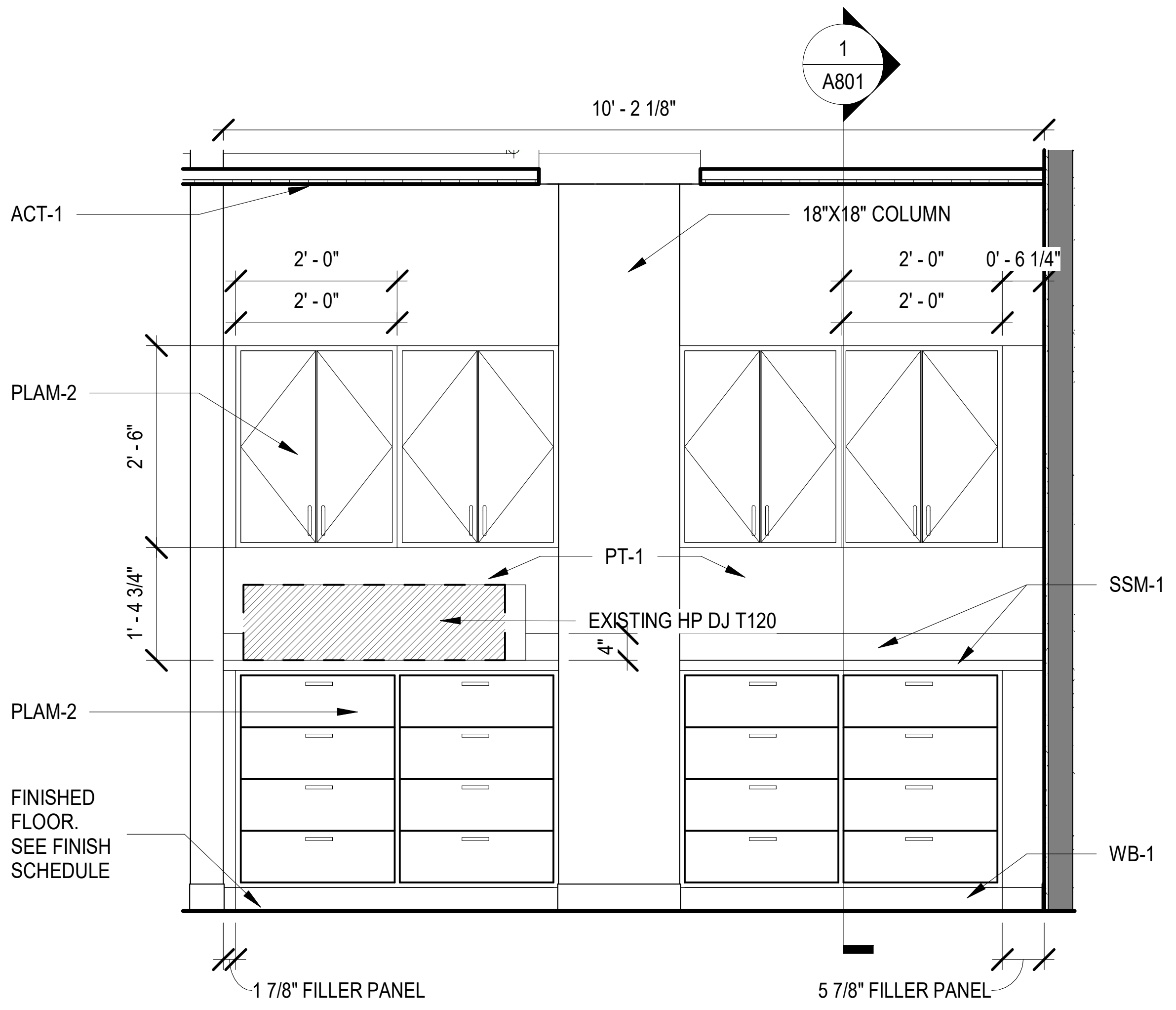
DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver
FILENAME

BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

INTERIOR
ELEVATIONS

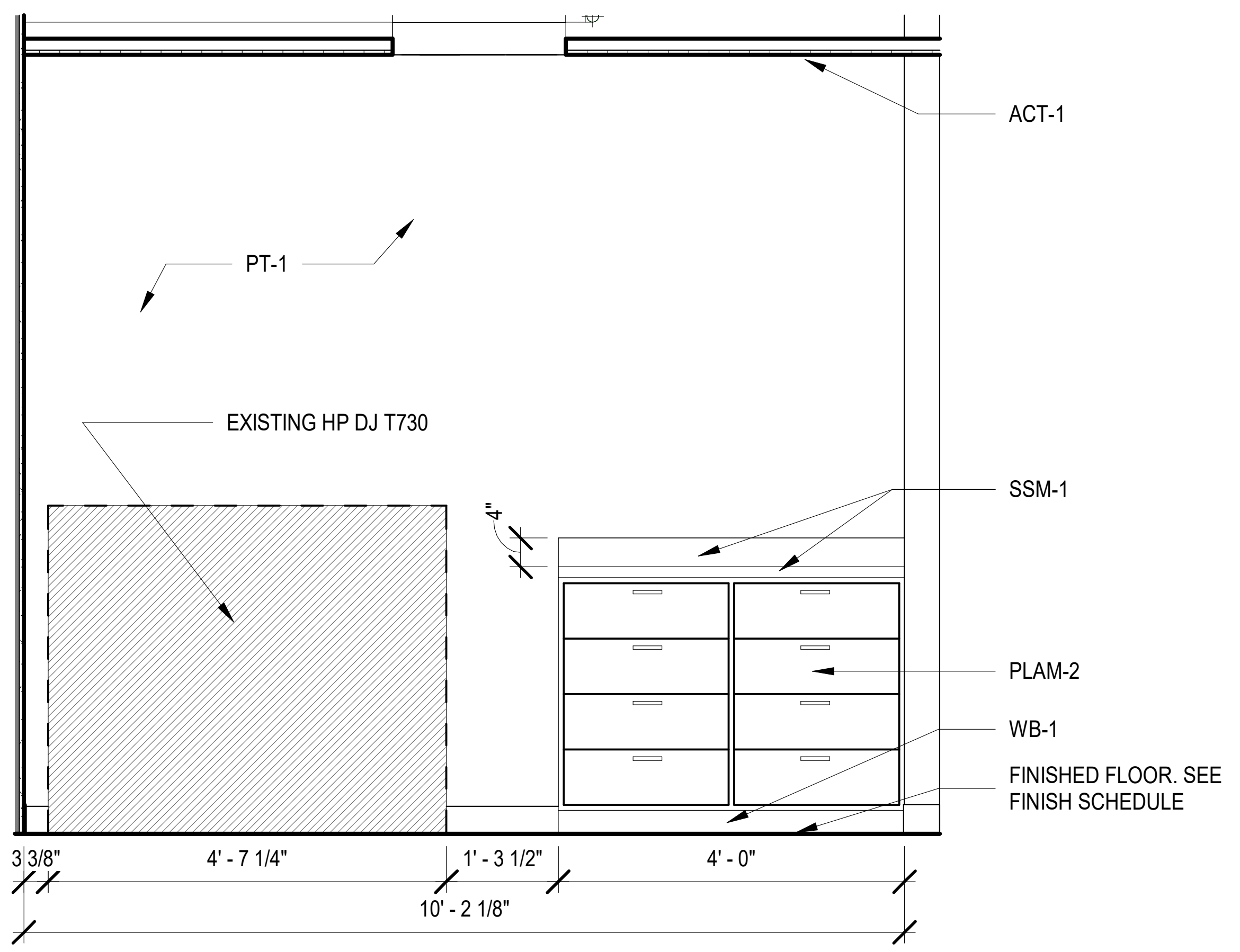
DRAWING NUMBER
A601

ALPHA BLDG SET 09-01-2026



1 PRINTING AREA 246 - EAST ELEVATION

SCALE: 1/2" = 1'-0"



2 PRINTING AREA 246 - WEST ELEVATION

SCALE: 1/2" = 1'-0"

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

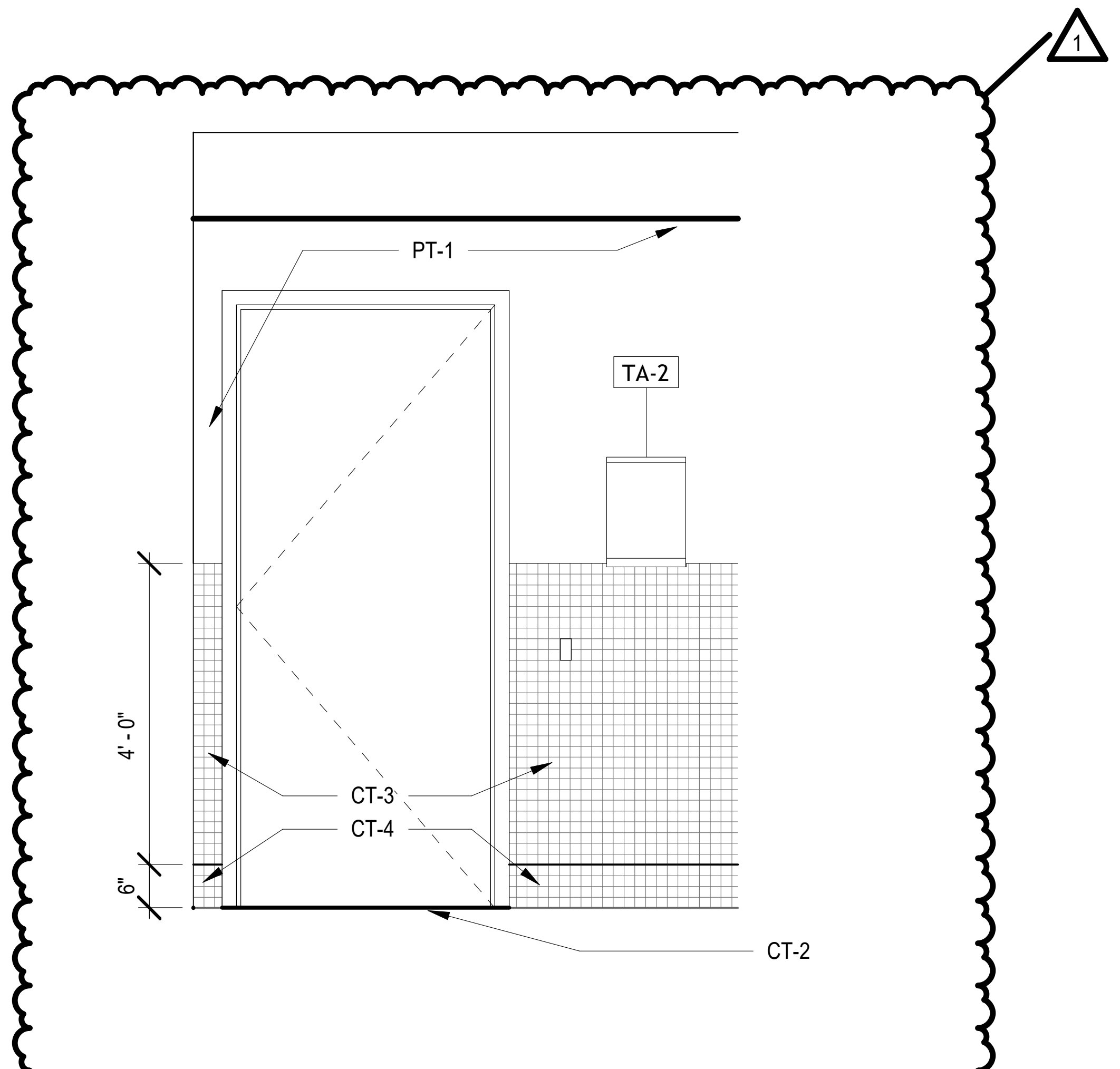
CLIENT PROJECT NUMBER

INTERIOR ELEVATIONS

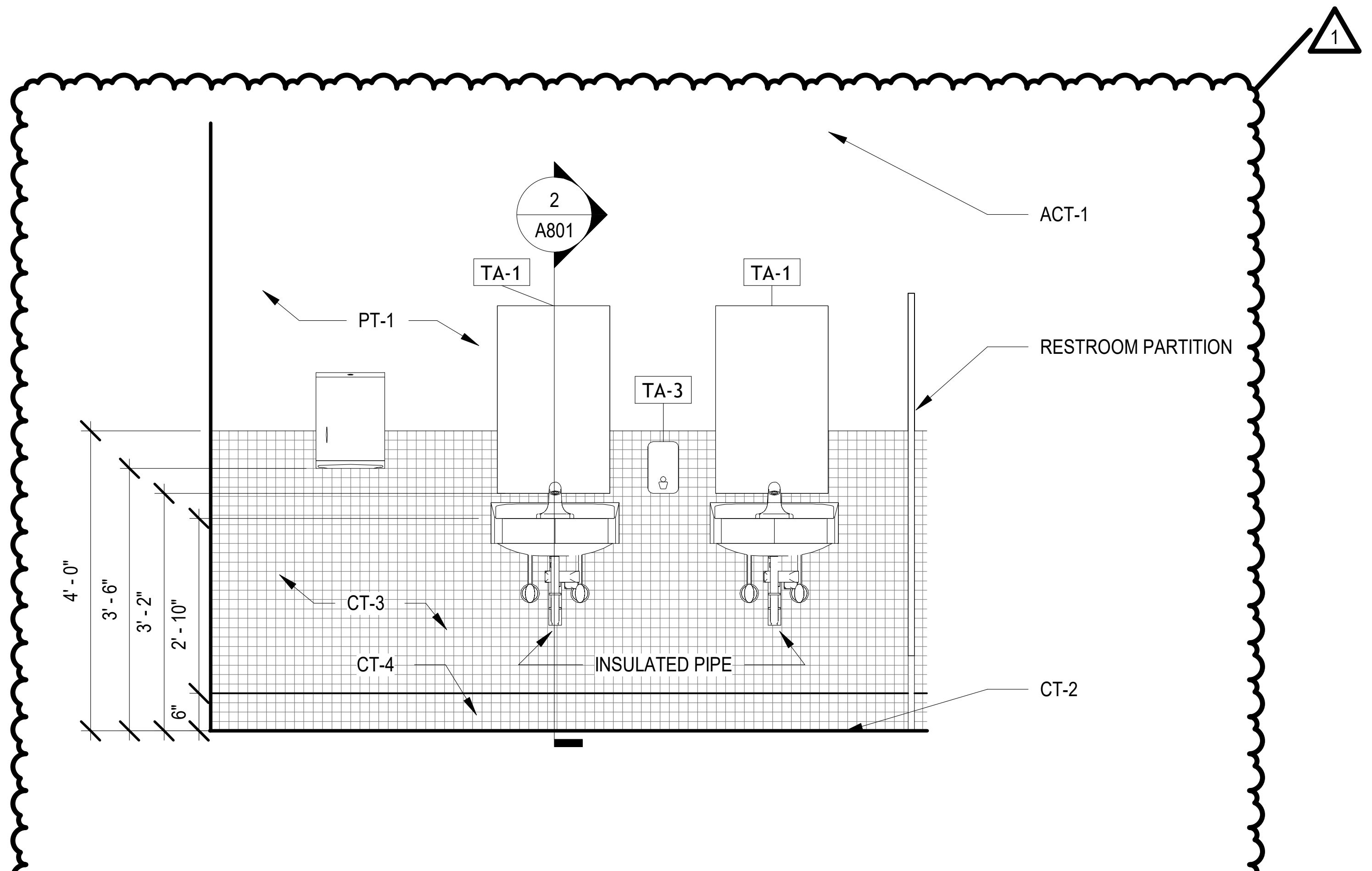
DRAWING NUMBER
A602

Plot Date: 8/19/2026 3:18:25 PM   Path: Autodesk Docs://NCWSA Admin Bldg_V25/616202-NCWSA-ARCH_V25(Central).rvt

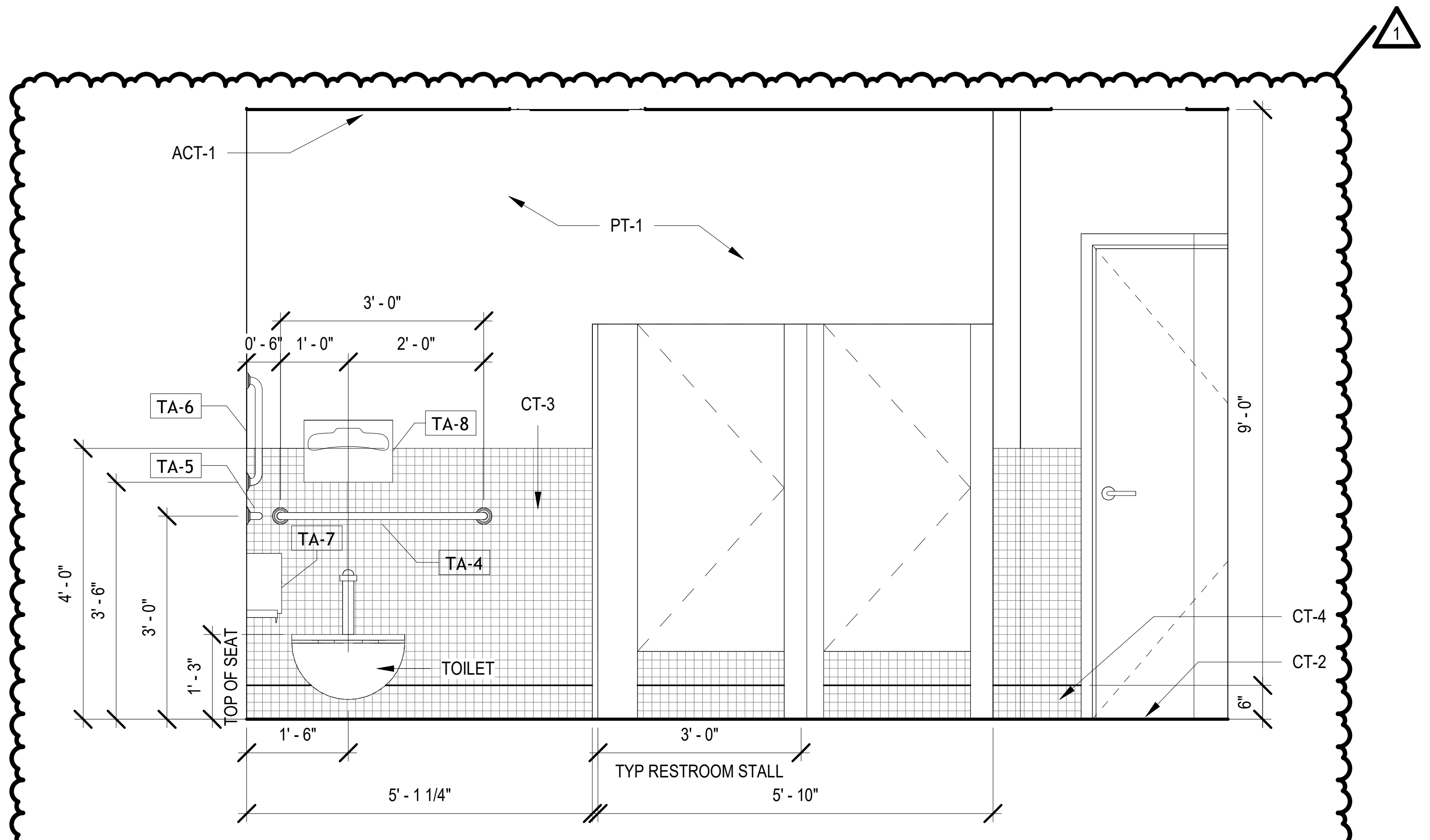
ALPHA BLDG SET 09-01-2026



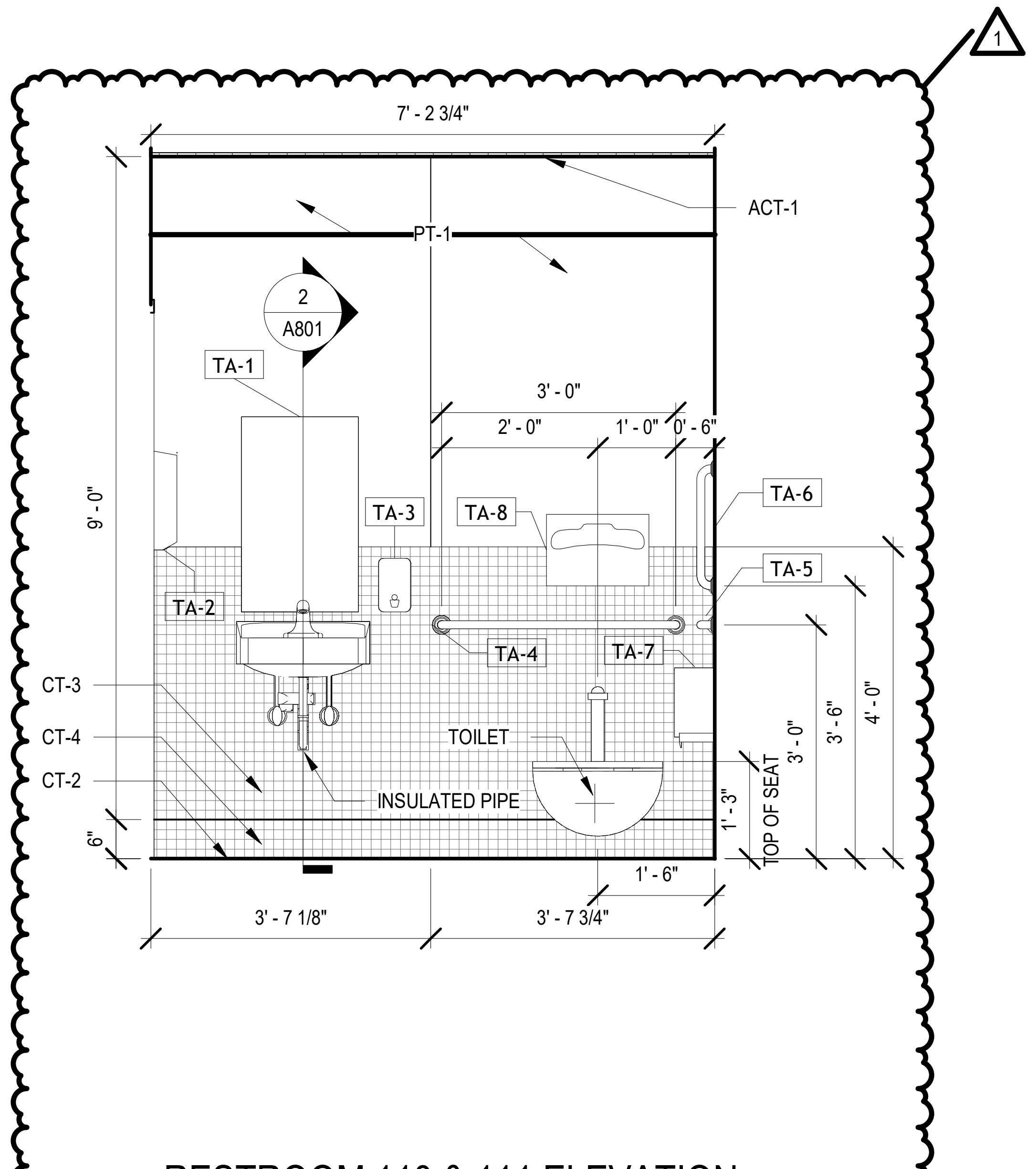
1 INTERIOR RESTROOM WALL ELEVATIONS
SCALE: 1/2" = 1'-0"



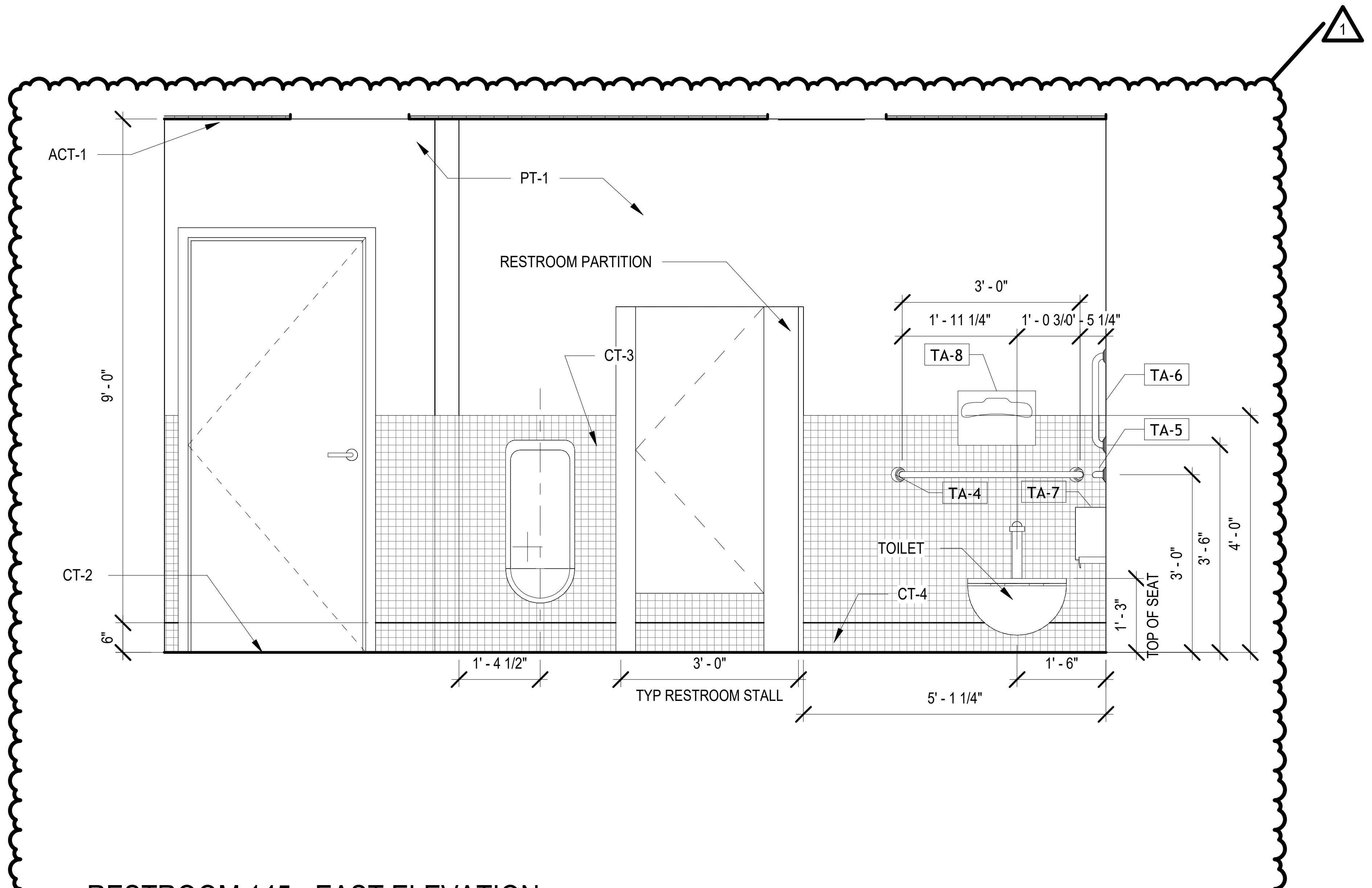
3 SINK ELEVATION AT RESTROOMS 145 &146
SCALE: 1/2" = 1'-0"



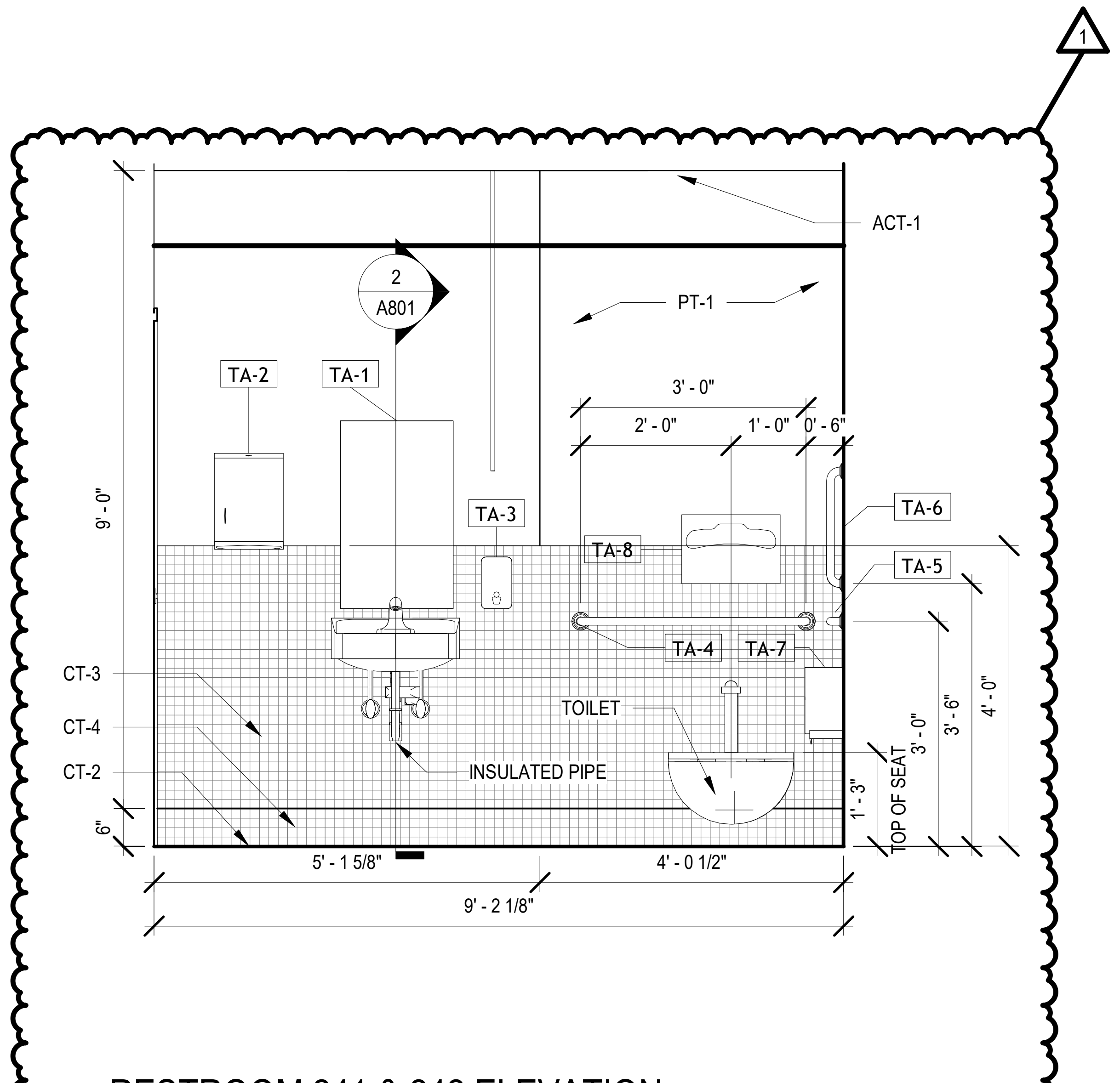
5 RESTROOM 146 - WEST ELEVATION
SCALE: 1/2" = 1'-0"



2 RESTROOM 110 & 111 ELEVATION
SCALE: 1/2" = 1'-0"



4 RESTROOM 145 - EAST ELEVATION
SCALE: 1/2" = 1'-0"



6 RESTROOM 241 & 242 ELEVATION
SCALE: 1/2" = 1'-0"

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

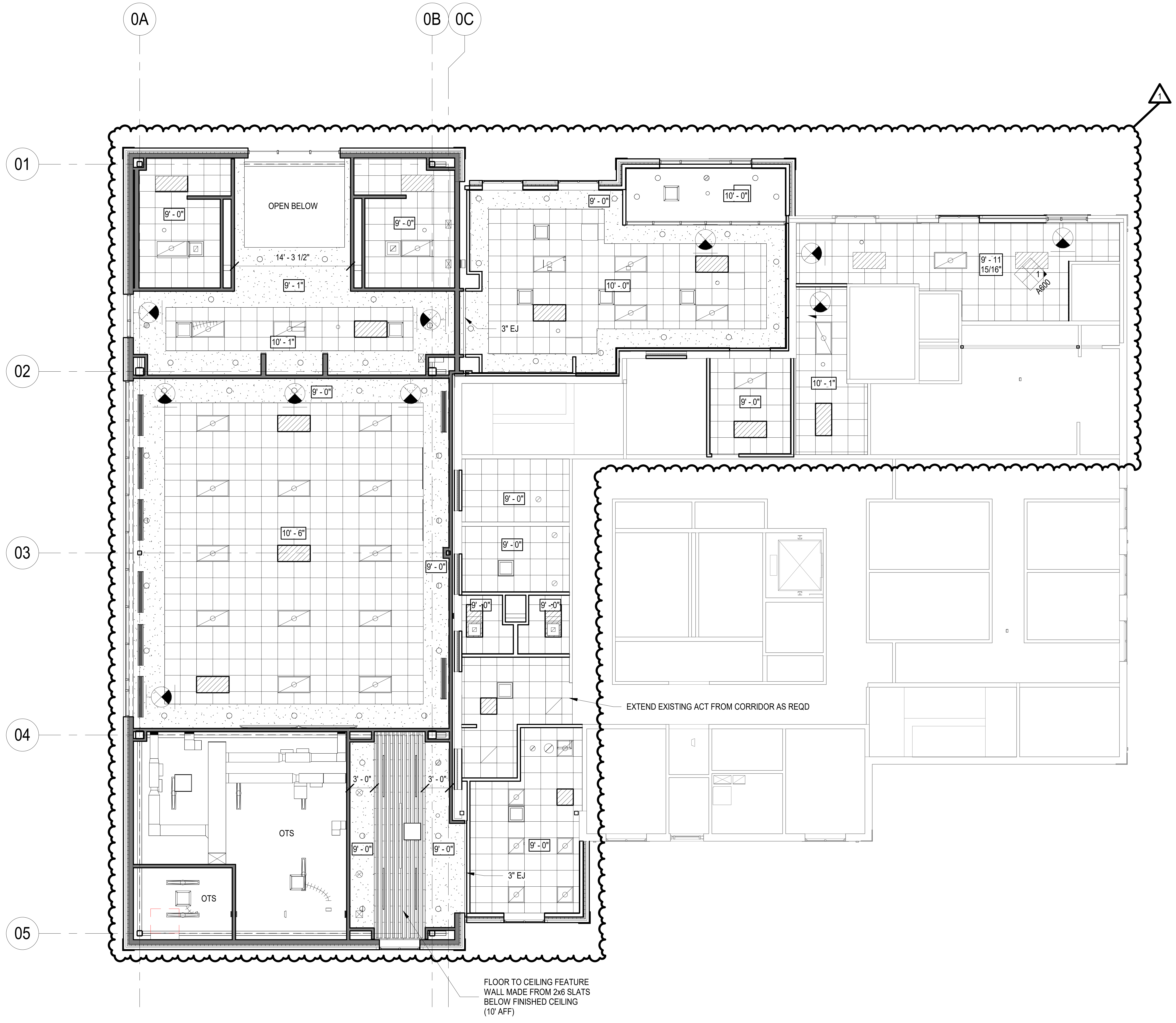
RESTROOM INTERIOR ELEVATIONS

DRAWING NUMBER
A650

Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

Plot Date: 8/19/2026 3:18:28 PM

ALPHA BLDG SET 09-01-2026



EXTEND EXISTING ACT FROM CORRIDOR AS REQD

FLOOR TO CEILING FEATURE WALL MADE FROM 2x6 SLATS BELOW FINISHED CEILING (10' AFF)

1 1st Floor RCP
SCALE: 1/8" = 1'-0"

GENERAL RCP NOTES:

1. CONTRACTOR TO REUSE AS MANY EXISTING FIXTURES AS POSSIBLE. CLEAN AND RE-LAMP ALL REUSED FIXTURES TO MATCH BUILDING STANDARD. PROVIDE NEW LAMPS AND/OR BULBS FOR ALL FIXTURES - EXISTING, REUSED, AND NEW. ALL BULBS TO HAVE A COLOR TEMPERATURE OF 350K WITH A MINIMUM CRI OF 80. ALL FIXTURES SHOULD BE CLEAN AND FREE OF DUST, LABELS, ETC.
2. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR LIGHT FIXTURE LOCATIONS.
3. CONTRACTOR SHALL PROVIDE LIGHT FIXTURE CUT SHEETS FOR ARCHITECTS APPROVAL, PRIOR TO ORDERING. NO SUBSTITUTIONS SHALL BE SUBMITTED UNLESS AVAILABILITY OF FIXTURE IS PROHIBITIVE TO MEETING THE PROJECT SCHEDULE.
4. ALL LIGHT FIXTURES ARE DIMENSIONED TO THE CENTER OF THE FIXTURE UNLESS OTHERWISE NOTED.
5. LIGHTS TO BE CENTERED ON CEILING TILE, UNLESS OTHERWISE NOTED.
6. WIRING DEVICES ARE TO MATCH BUILDING STANDARD.
7. EACH SPACE TO BE INDIVIDUALLY SWITCHED UNLESS OTHERWISE NOTED.
8. COVER PLATES ON WALLS SHALL BE BUILDING STANDARD. PLATES TO BE STANDARD SIZE (OVERSIZED PLATES ARE NOT ACCEPTABLE).
9. COORDINATE ALL FIRE SAFETY EQUIPMENT, INCLUDING EXIT SIGNS, EMERGENCY BACK-UP LIGHTS, AUDIO AND VISUAL ALARMS, PULL STATIONS, ETC. AS REQUIRED BY ALL APPLICABLE CODES AND ORDINANCES HAVING JURISDICTION ON THIS PROJECT WITH CONTRACTOR, REFER TO MEP DRAWINGS FOR EXACT LOCATION AND SPECIFICATION OF EMERGENCY EGRESS AND LIGHTING AND EXIT FIXTURES.
10. PROVIDE T-BAR HOLD DOWN CLIPS ON ALL FIXTURES WHERE APPLICABLE.
11. PROVIDE BLOCKING IN CEILING FOR ALL PROJECTION SCREENS AND VIDEO PROJECTORS. COORDINATE WITH AV VENDOR.
12. SEE DESIGN BUILD DRAWINGS FOR SPRINKLER LOCATION/FIRE SUPPRESSION PLAN.
13. WHERE WATER HEATERS ARE PROVIDED IN THE PLENUM, THEY SHALL BE SUPPORTED BY NON-COMBUSTIBLE CONSTRUCTION (METAL STUDS).
14. BREAK/REWORK EXISTING CEILING GRID AT ALL NEW WALL PARTITIONS THAT GO TO THE DECK, PATCH AND REPAIR AS NECESSARY.

RCP SYMBOLS LEGEND:

⊗	EXIT SIGN
1'-0"	SOFFIT OR CEILING HEIGHT
ACT-1	2' x 2' ACOUSTIC CEILING TILE
GWB	GYPSUM WALL BOARD CEILING
S	SPEAKER
●	SPRINKLER HEAD REF. FIRE PROTECTION DWGS

Path: Autodesk Docs://NCWSA Admin Bldg_V25/616202-NCWSA-ARCH_V25(Central).rvt

Plot Date: 8/19/2026 3:18:29 PM

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

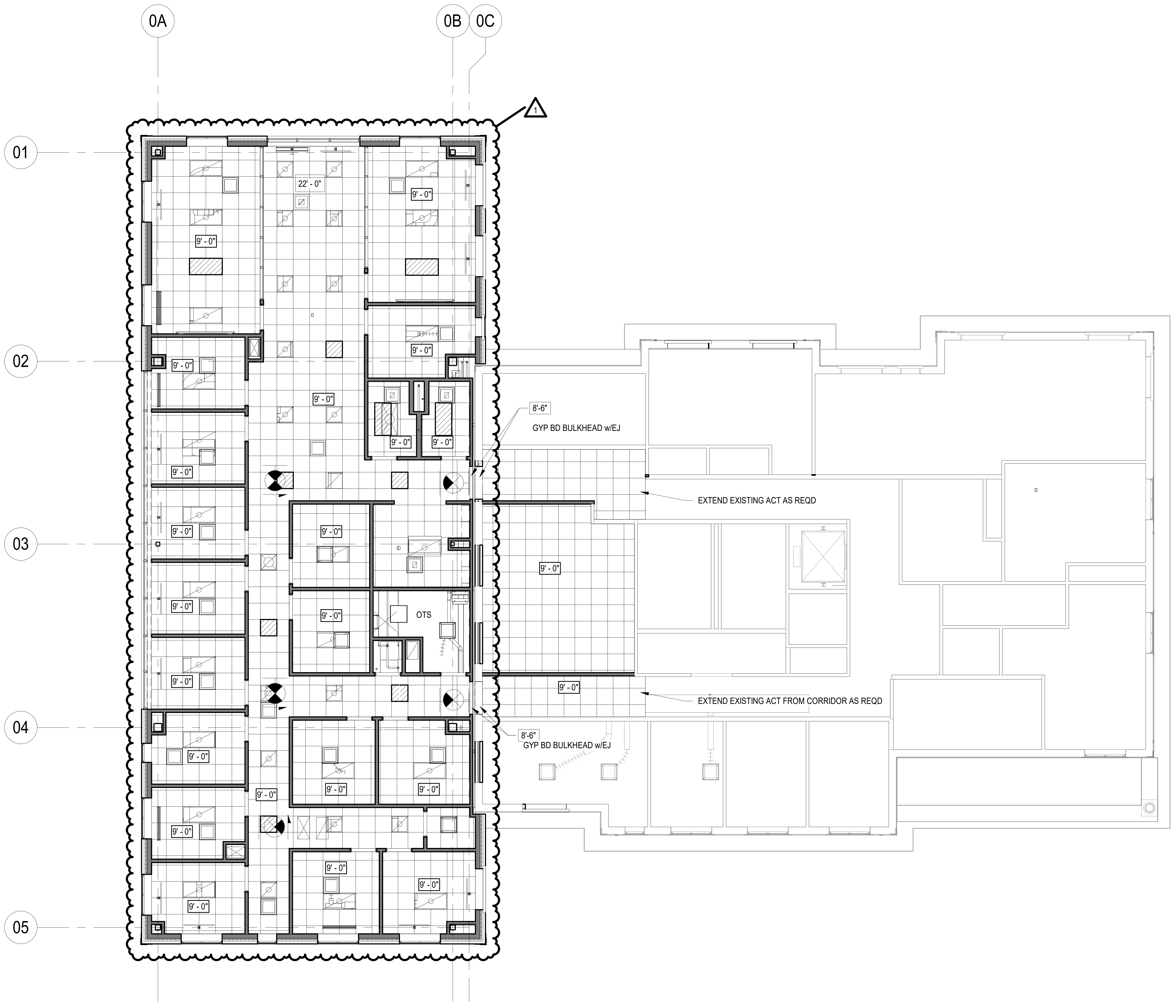
DESIGNED: Designer
DRAWN: Author
CHECKED: Checker
CHECKED:
APPROVED: Approver
FILENAME

BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

1ST FLOOR - REFLECTED CEILING PLAN

DRAWING NUMBER
A701

ALPHA BLDG SET 09-01-2026



1 2nd Floor RCP
SCALE: 1/8" = 1'-0"

GENERAL RCP NOTES:

1. CONTRACTOR TO REUSE AS MANY EXISTING FIXTURES AS POSSIBLE. CLEAN AND RE-LAMP ALL REUSED FIXTURES TO MATCH BUILDING STANDARD. PROVIDE NEW LAMPS AND/OR BULBS FOR ALL FIXTURES - EXISTING, REUSED, AND NEW. ALL BULBS TO HAVE A COLOR TEMPERATURE OF 350K WITH A MINIMUM CRI OF 80. ALL FIXTURES SHOULD BE CLEAN AND FREE OF DUST, LABELS, ETC.
2. REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR LIGHT FIXTURE LOCATIONS.
3. CONTRACTOR SHALL PROVIDE LIGHT FIXTURE CUT SHEETS FOR ARCHITECTS APPROVAL, PRIOR TO ORDERING. NO SUBSTITUTIONS SHALL BE SUBMITTED UNLESS AVAILABILITY OF FIXTURE IS PROHIBITIVE TO MEETING THE PROJECT SCHEDULE.
4. ALL LIGHT FIXTURES ARE DIMENSIONED TO THE CENTER OF THE FIXTURE UNLESS OTHERWISE NOTED.
5. LIGHTS TO BE CENTERED ON CEILING TILE, UNLESS OTHERWISE NOTED.
6. WIRING DEVICES ARE TO MATCH BUILDING STANDARD.
7. EACH SPACE TO BE INDIVIDUALLY SWITCHED UNLESS OTHERWISE NOTED.
8. COVER PLATES ON WALLS SHALL BE BUILDING STANDARD. PLATES TO BE STANDARD SIZE (OVERSIZED PLATES ARE NOT ACCEPTABLE).
9. COORDINATE ALL FIRE SAFETY EQUIPMENT, INCLUDING EXIT SIGNS, EMERGENCY BACK-UP LIGHTS, AUDIO AND VISUAL ALARMS, PULL STATIONS, ETC. AS REQUIRED BY ALL APPLICABLE CODES AND ORDINANCES HAVING JURISDICTION ON THIS PROJECT WITH CONTRACTOR, REFER TO MEP DRAWINGS FOR EXACT LOCATION AND SPECIFICATION OF EMERGENCY EGRESS AND LIGHTING AND EXIT FIXTURES.
10. PROVIDE T-BAR HOLD DOWN CLIPS ON ALL FIXTURES WHERE APPLICABLE.
11. PROVIDE BLOCKING IN CEILING FOR ALL PROJECTION SCREENS AND VIDEO PROJECTORS. COORDINATE WITH AV VENDOR.
12. SEE DESIGN BUILD DRAWINGS FOR SPRINKLER LOCATION/FIRE SUPPRESSION PLAN.
13. WHERE WATER HEATERS ARE PROVIDED IN THE PLENUM, THEY SHALL BE SUPPORTED BY NON-COMBUSTIBLE CONSTRUCTION (METAL STUDS).
14. BREAK/REWORK EXISTING CEILING GRID AT ALL NEW WALL PARTITIONS THAT GO TO THE DECK, PATCH AND REPAIR AS NECESSARY.

RCP SYMBOLS LEGEND:

⊗	EXIT SIGN
1'-0"	SOFFIT OR CEILING HEIGHT
ACT-1	2' x 2' ACOUSTIC CEILING TILE
GWB	GYPSUM WALL BOARD CEILING
S	SPEAKER
●	SPRINKLER HEAD REF. FIRE PROTECTION DWGS

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: Designer
DRAWN: Author
CHECKED: Checker
CHECKED:
APPROVED: Approver
FILENAME

BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

2ND FLOOR - REFLECTED CEILING PLAN

DRAWING NUMBER
A702

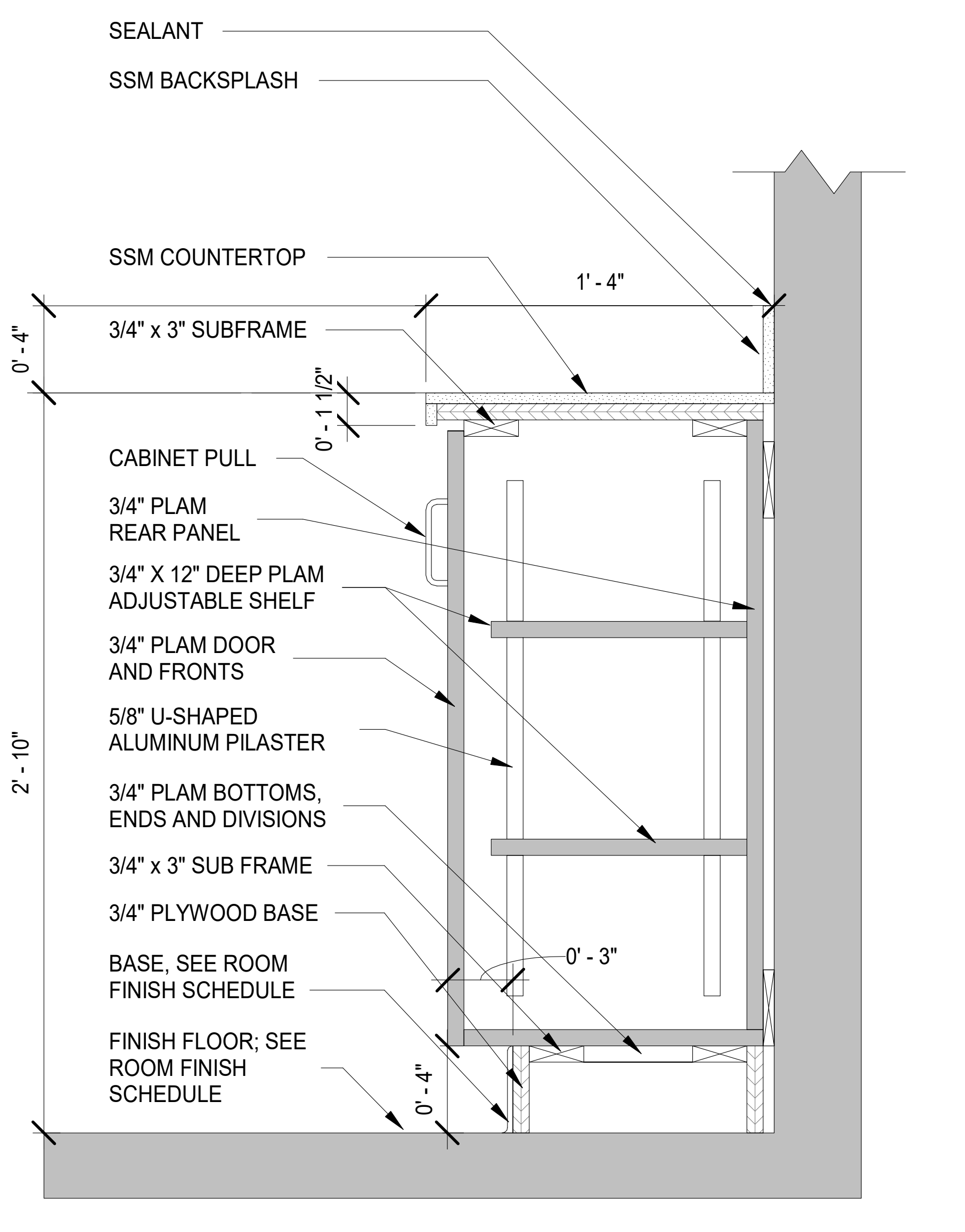
Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

Plot Date: 8/19/2026 3:18:30 PM

Plot Date: 8/19/2026 3:18:31 PM

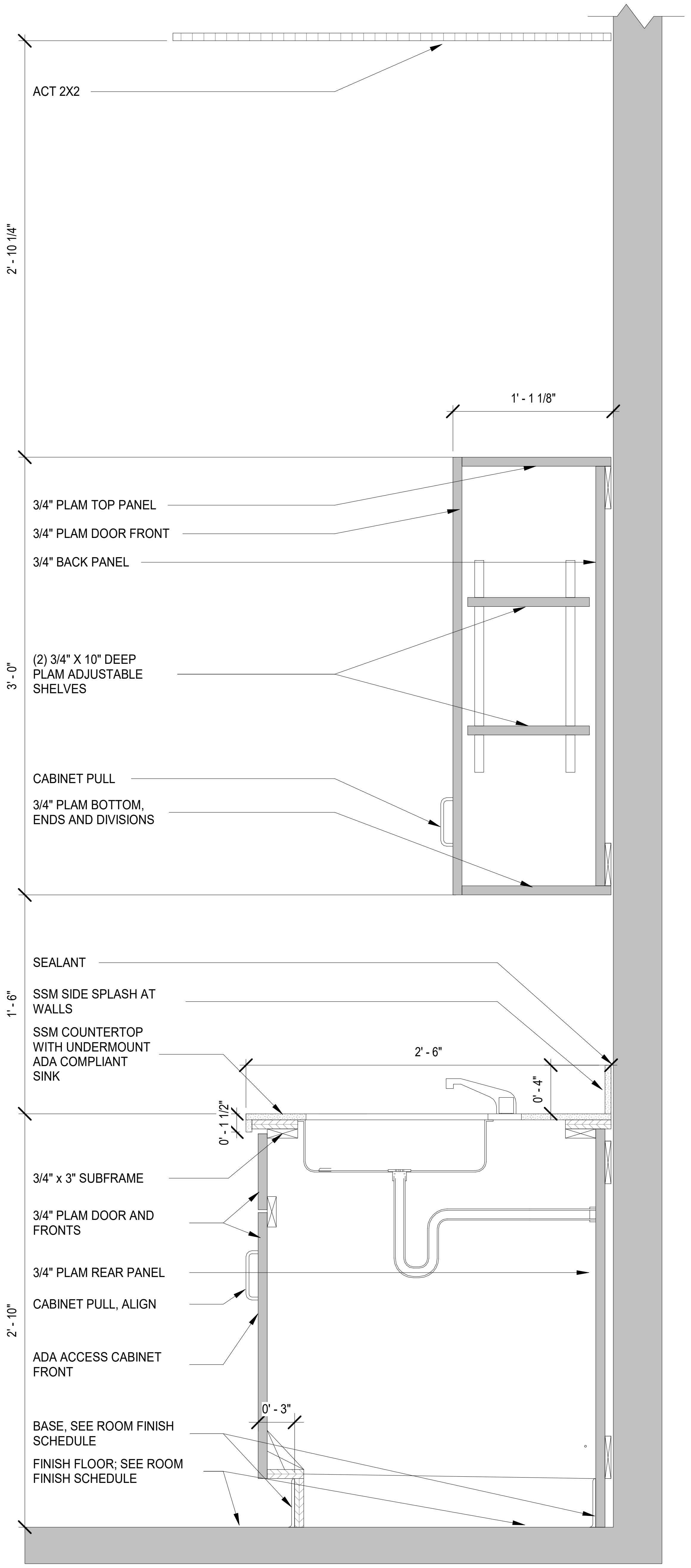
Path: Autodesk Docs://NCWSA Admin Bldg_V25616202-NCWSA-ARCH_V25(Central).rvt

ALPHA BLDG SET 09-01-2026


SEALANT
SSM BACKSPLASH
SSM COUNTERTOP
1' - 4"
0' - 4"
3/4" x 3" SUBFRAME
0' - 1 1/2"
CABINET PULL
3/4" PLAM REAR PANEL
3/4" X 12" DEEP PLAM ADJUSTABLE SHELF
3/4" PLAM DOOR AND FRONTS
5/8" U-SHAPED ALUMINUM PILASTER
2' - 10"
3/4" PLAM BOTTOMS, ENDS AND DIVISIONS
3/4" x 3" SUB FRAME
3/4" PLYWOOD BASE
0' - 3"
BASE, SEE ROOM FINISH SCHEDULE
FINISH FLOOR; SEE ROOM FINISH SCHEDULE
0' - 4"

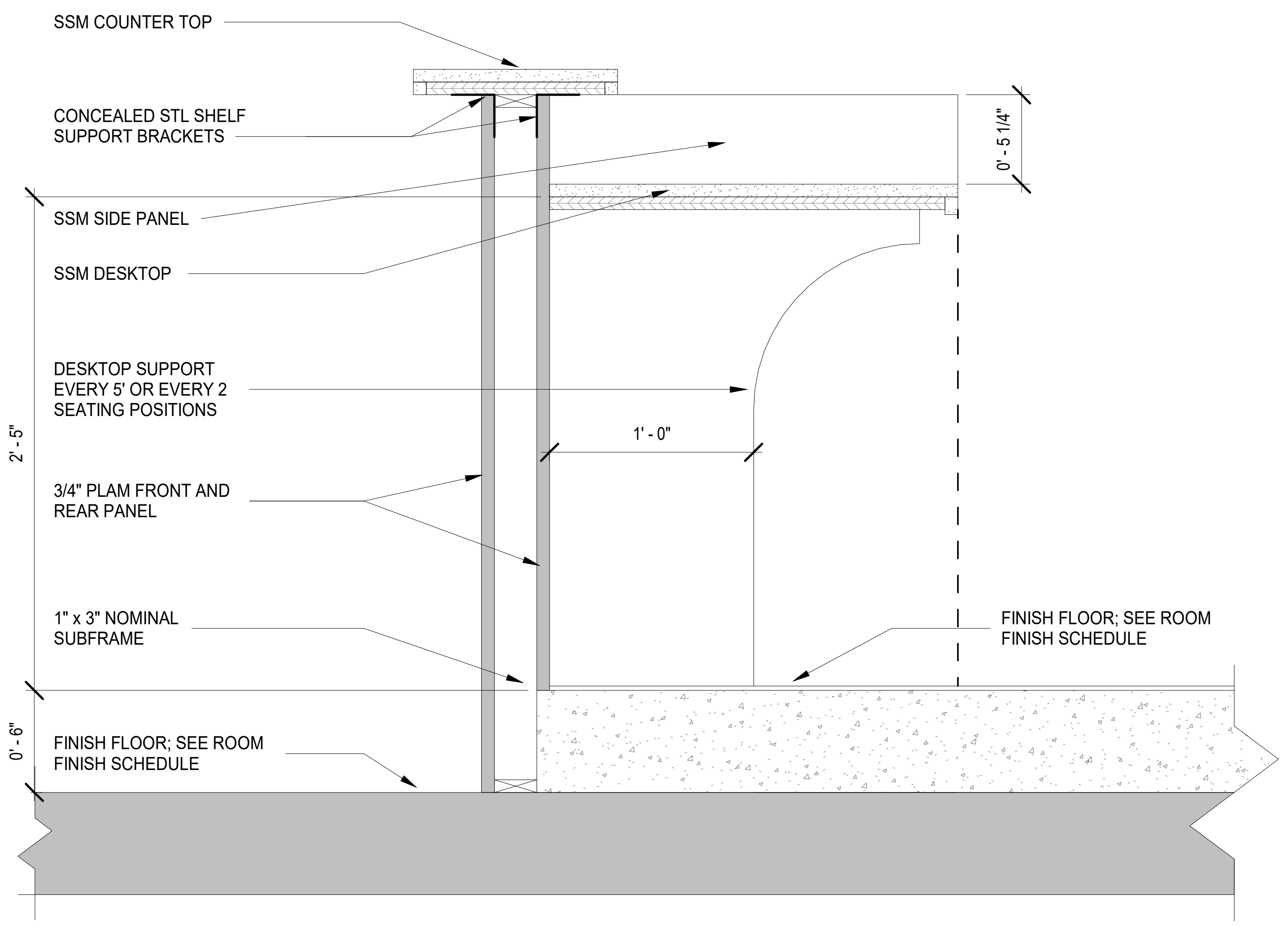
1 16" DEEP EXEC. CONF. RM & LOBBY CASEWORK DETAIL

SCALE: 1 1/2" = 1'-0"



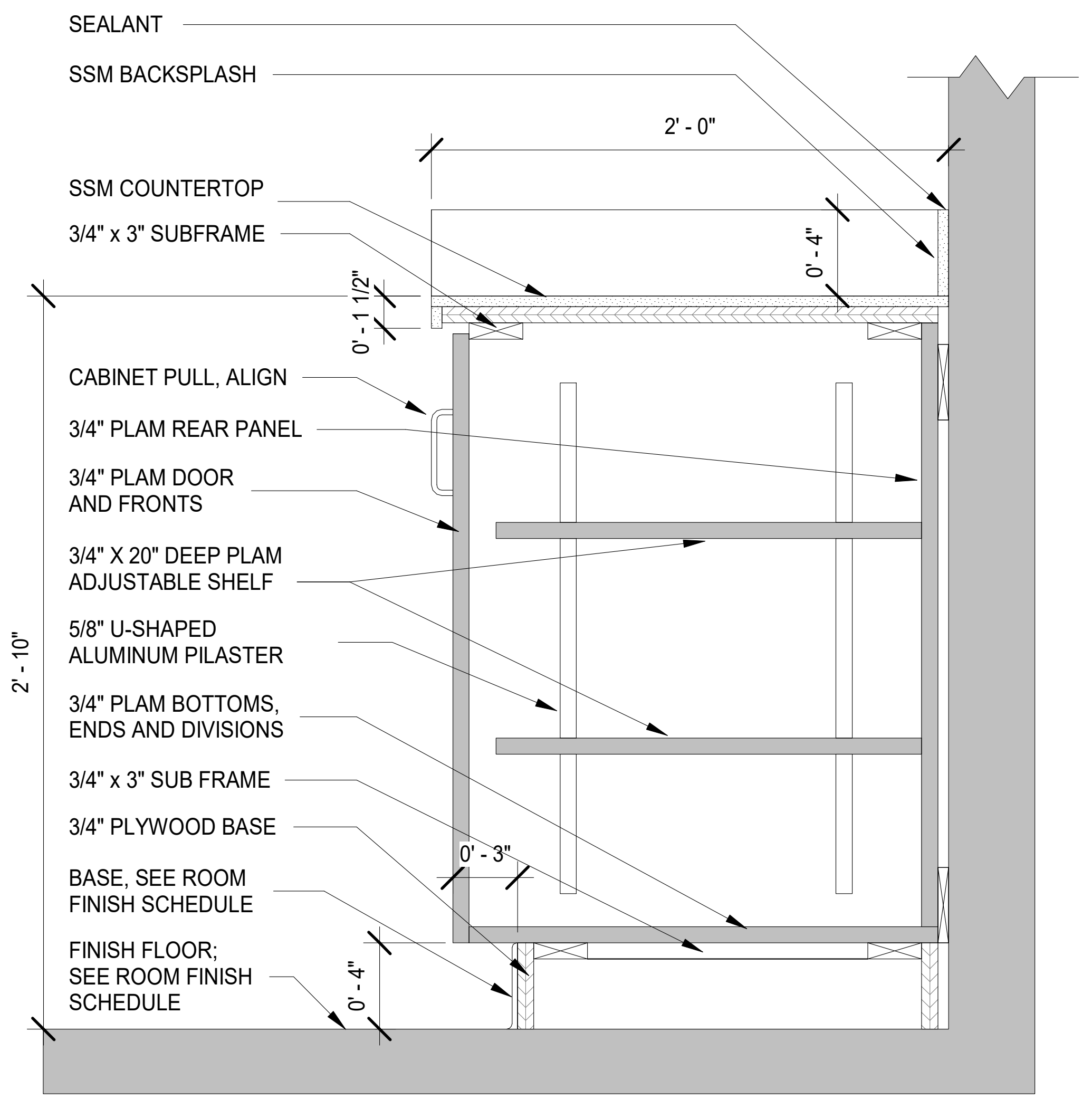
3 MILLWORK SINK DETAIL

SCALE: 1 1/2" = 1'-0"


SSM COUNTER TOP
CONCEALED STL SHELF SUPPORT BRACKETS
0' - 5 1/4"
SSM SIDE PANEL
SSM DESKTOP
DESKTOP SUPPORT EVERY 5' OR EVERY 2 SEATING POSITIONS
2' - 5"
1' - 0"
3/4" PLAM FRONT AND REAR PANEL
1" x 3" NOMINAL SUBFRAME
FINISH FLOOR; SEE ROOM FINISH SCHEDULE
0' - 6"
FINISH FLOOR; SEE ROOM FINISH SCHEDULE

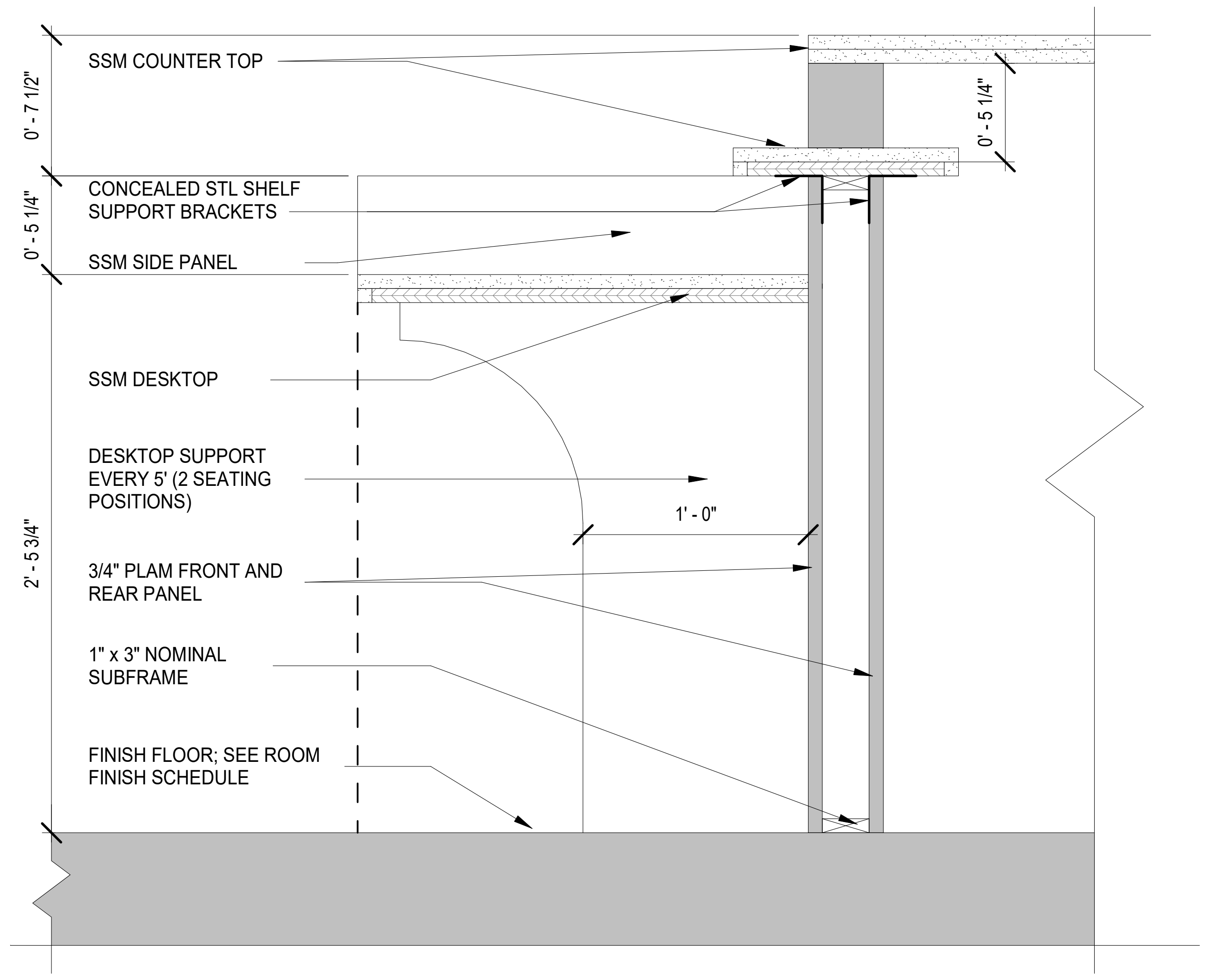
4 BOARD RM MILLWORK 1

SCALE: 1 1/2" = 1'-0"


SEALANT
SSM BACKSPLASH
2' - 0"
SSM COUNTERTOP
3/4" x 3" SUBFRAME
0' - 4"
0' - 1 1/2"
CABINET PULL, ALIGN
3/4" PLAM REAR PANEL
3/4" PLAM DOOR AND FRONTS
3/4" X 20" DEEP PLAM ADJUSTABLE SHELF
5/8" U-SHAPED ALUMINUM PILASTER
2' - 10"
3/4" PLAM BOTTOMS, ENDS AND DIVISIONS
3/4" x 3" SUB FRAME
3/4" PLYWOOD BASE
0' - 3"
BASE, SEE ROOM FINISH SCHEDULE
FINISH FLOOR; SEE ROOM FINISH SCHEDULE
0' - 4"

2 24" DEEP LOBBY CASEWORK DETAIL

SCALE: 1 1/2" = 1'-0"


SSM COUNTER TOP
0' - 7 1/2"
0' - 5 1/4"
CONCEALED STL SHELF SUPPORT BRACKETS
0' - 5 1/4"
SSM SIDE PANEL
SSM DESKTOP
DESKTOP SUPPORT EVERY 5' (2 SEATING POSITIONS)
1' - 0"
2' - 5 3/4"
3/4" PLAM FRONT AND REAR PANEL
1" x 3" NOMINAL SUBFRAME
FINISH FLOOR; SEE ROOM FINISH SCHEDULE

5 BOARD RM MILLWORK 2

SCALE: 1 1/2" = 1'-0"

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

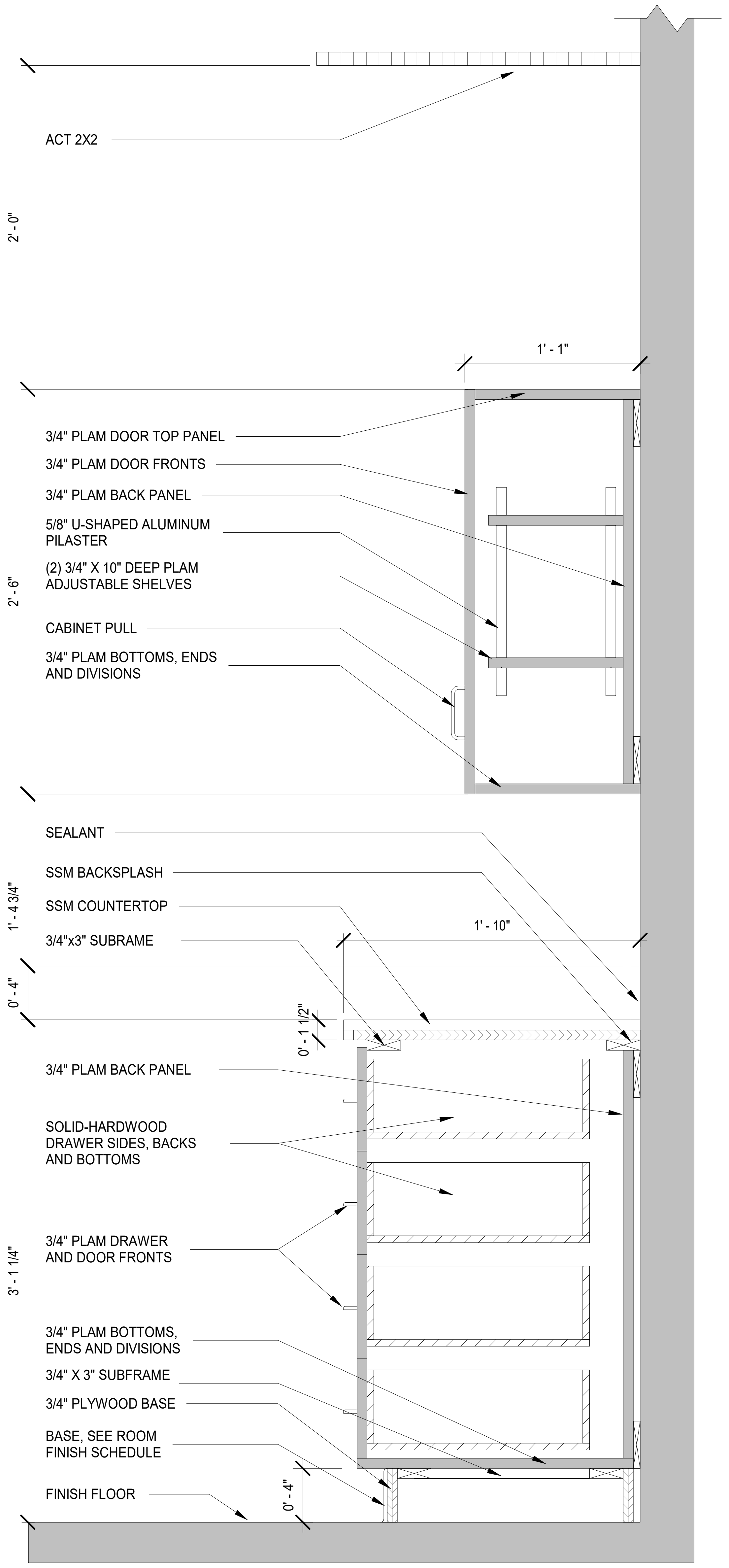
BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

INTERIOR SECTION DETAILS CASEWORK AND MILLWORK

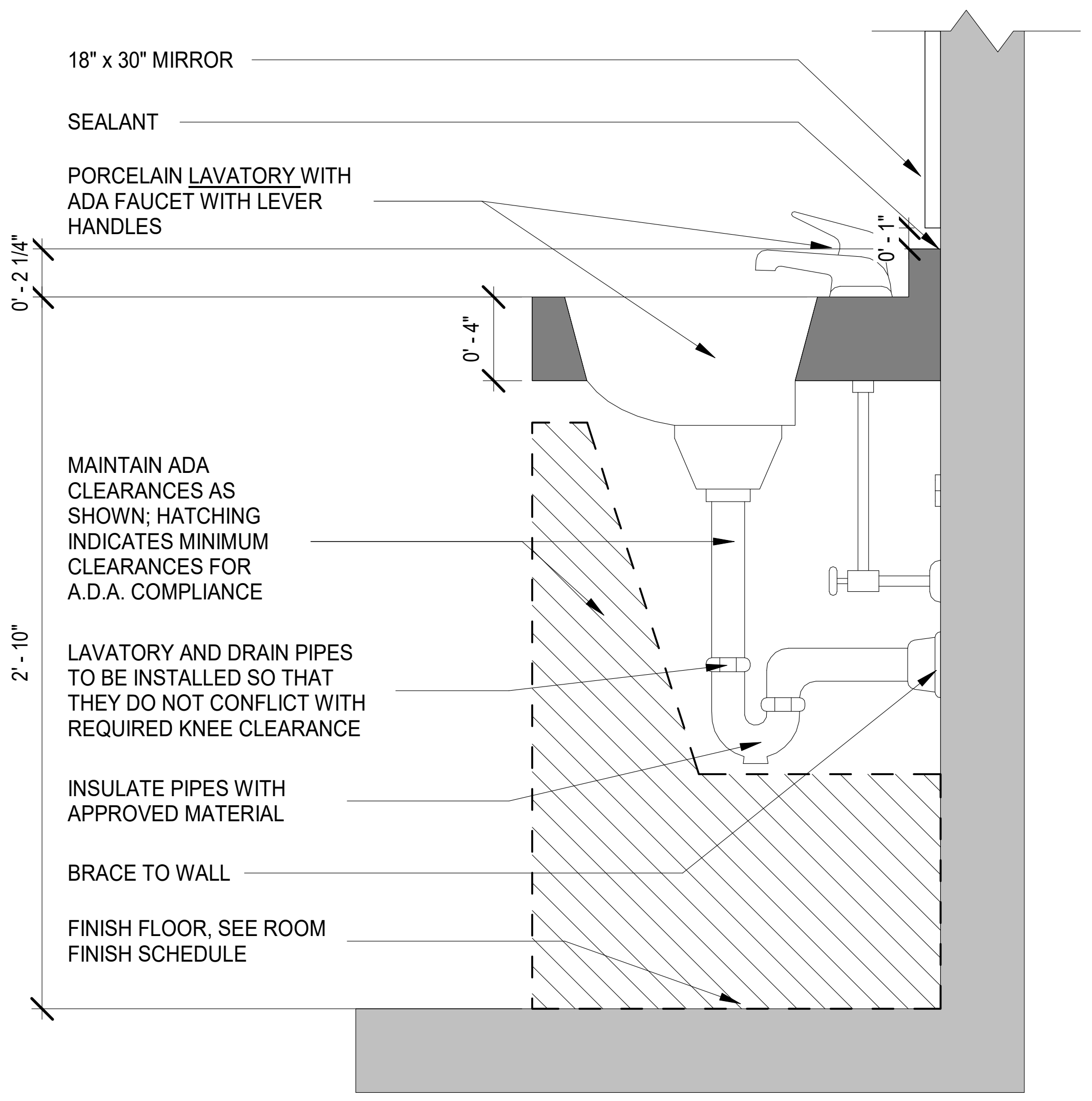
DRAWING NUMBER
A800

ALPHA BLDG SET 09-01-2026



1 PRINTING AREA TOP & BOTTOM CASEWORK DETAILS

SCALE: 1 1/2" = 1'-0"


18" x 30" MIRROR
SEALANT
PORCELAIN LAVATORY WITH ADA FAUCET WITH LEVER HANDLES
0' - 2 1/4"
0' - 1"
0' - 4"
MAINTAIN ADA CLEARANCES AS SHOWN; HATCHING INDICATES MINIMUM CLEARANCES FOR A.D.A. COMPLIANCE
2' - 10"
LAVATORY AND DRAIN PIPES TO BE INSTALLED SO THAT THEY DO NOT CONFLICT WITH REQUIRED KNEE CLEARANCE
INSULATE PIPES WITH APPROVED MATERIAL
BRACE TO WALL
FINISH FLOOR, SEE ROOM FINISH SCHEDULE

2 LAVATORY SINK DETAIL

SCALE: 1 1/2" = 1'-0"

Plot Date: 8/19/2026 3:18:31 PM

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Brown AND Caldwell
BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA
NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

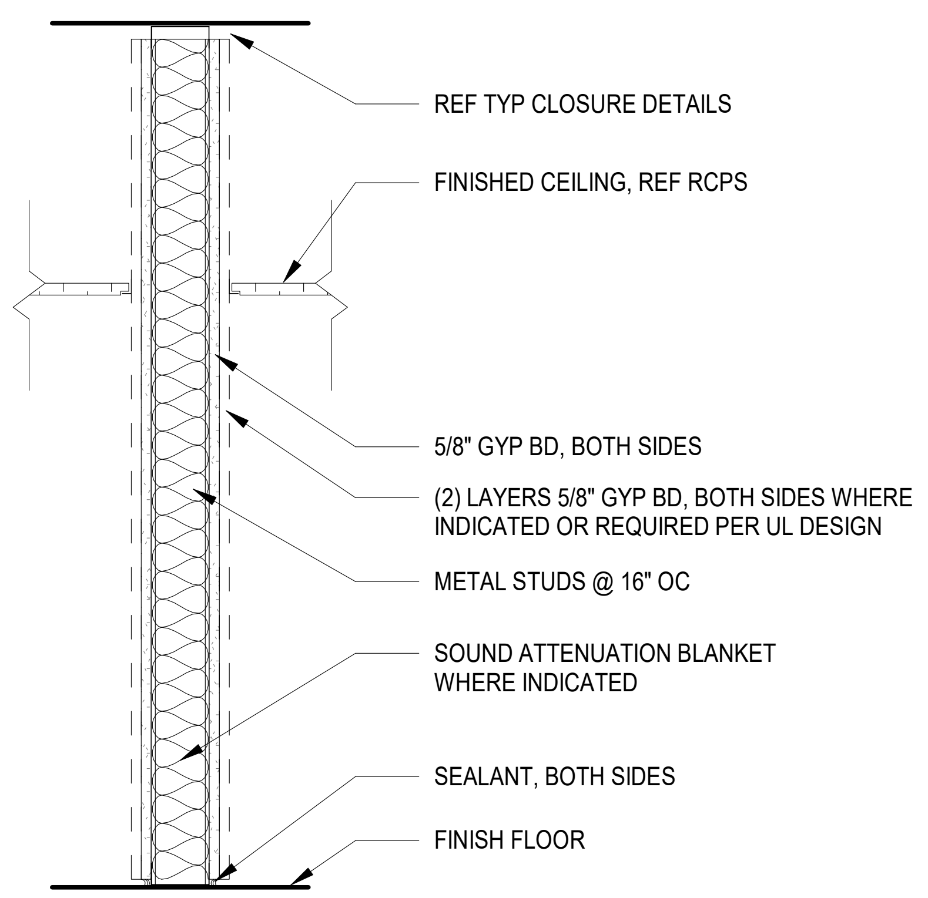
FILENAME

BC PROJECT NUMBER
616202

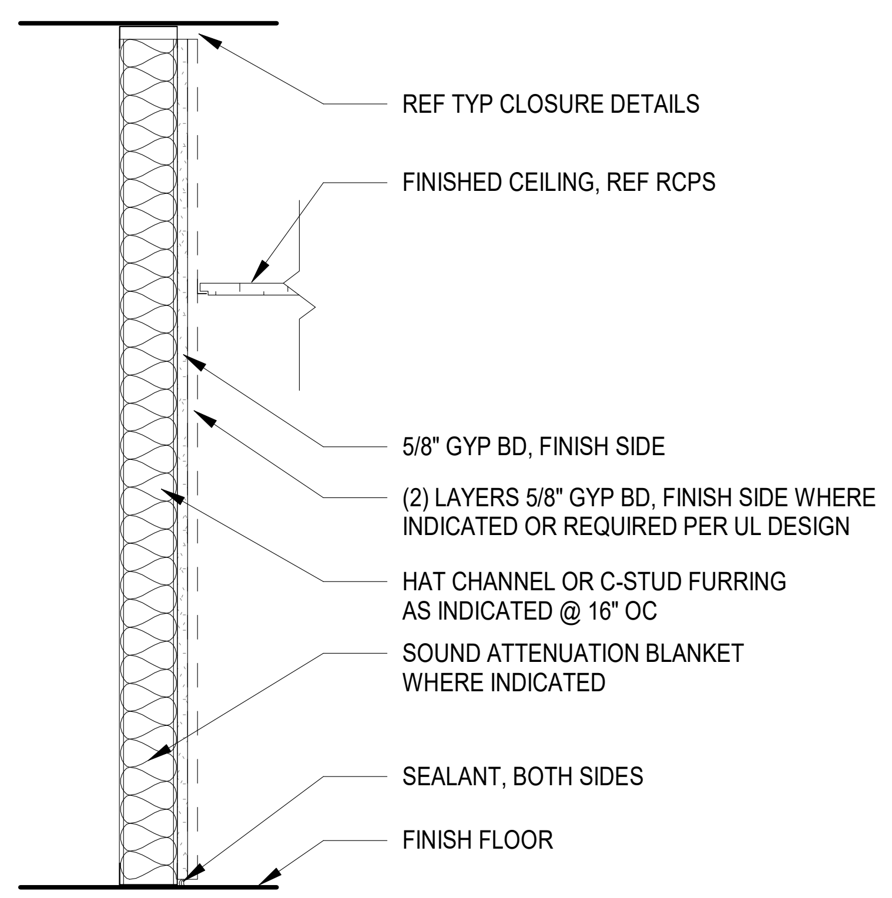
CLIENT PROJECT NUMBER

INTERIOR SECTION DETAILS CASEWORK AND MILLWORK

DRAWING NUMBER
A801

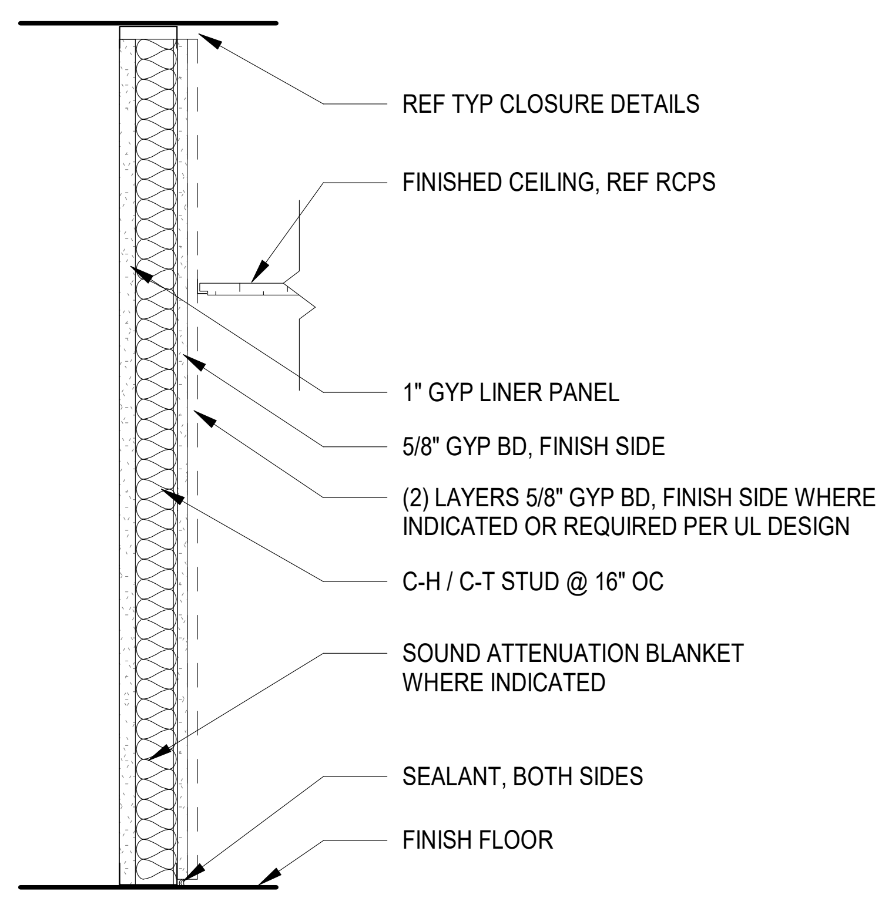

REF TYP CLOSURE DETAILS
FINISHED CEILING, REF RCPS
5/8" GYP BD, BOTH SIDES
(2) LAYERS 5/8" GYP BD, BOTH SIDES WHERE INDICATED OR REQUIRED PER UL DESIGN
METAL STUDS @ 16" OC
SOUND ATTENUATION BLANKET WHERE INDICATED
SEALANT, BOTH SIDES
FINISH FLOOR

#S METAL C-STUD & GYP BD TO DECK


REF TYP CLOSURE DETAILS
FINISHED CEILING, REF RCPS
5/8" GYP BD, FINISH SIDE
(2) LAYERS 5/8" GYP BD, FINISH SIDE WHERE INDICATED OR REQUIRED PER UL DESIGN
HAT CHANNEL OR C-STUD FURRING AS INDICATED @ 16" OC
SOUND ATTENUATION BLANKET WHERE INDICATED
SEALANT, BOTH SIDES
FINISH FLOOR

#H HAT CHANNEL FURRING & GYP BD TO DECK

#F C-STUD FURRING & GYP BD TO DECK


REF TYP CLOSURE DETAILS
FINISHED CEILING, REF RCPS
1" GYP LINER PANEL
5/8" GYP BD, FINISH SIDE
(2) LAYERS 5/8" GYP BD, FINISH SIDE WHERE INDICATED OR REQUIRED PER UL DESIGN
C-H / C-T STUD @ 16" OC
SOUND ATTENUATION BLANKET WHERE INDICATED
SEALANT, BOTH SIDES
FINISH FLOOR

#SW C-H / C-T STUD & GYP BD TO DECK

NOTES:
1. BRACE METAL STUDS AS PER MANUFACTURER REQUIREMENTS TO BUILDING STRUCTURE.
2. PROVIDE METAL CLIP ANGLES AS REQUIRED TO INSTALL WALLS ON UNEVEN SURFACES.

NON-RATED & RATED PARTITIONS

FIRE RATING:
UL DESIGN U465 - 1 HR
UL DESIGN U411 - 2 HR

NOTES:
1. BRACE METAL STUDS AS PER MANUFACTURER REQUIREMENTS TO BUILDING STRUCTURE.
2. PROVIDE METAL CLIP ANGLES AS REQUIRED TO INSTALL WALLS ON UNEVEN SURFACES.

FURRING PARTITIONS

FIRE RATING:
UL DESIGN V497 - 1 HR
UL DESIGN V497 - 2 HR

SHAFT WALL PARTITIONS

FIRE RATING:
UL DESIGN U499 - 1 HR
UL DESIGN U438 - 2 HR

PARTITION TYPES

SCALE: 1" = 1'-0"

STRUCTURE MATERIAL

STRUCTURE SIZE

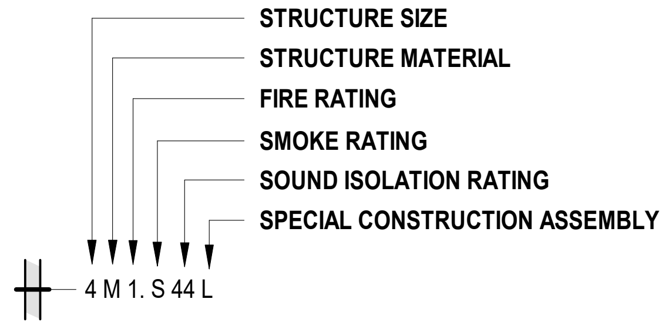
NOMINAL	HAT CHANNEL FURRING (H)	C-STUD FURRING (F)	C-STUD PARTITION (S)	SHAFTWALL PARTITION (SW)	WOOD STUD PARTITION (W)	WOOD FURRING (WF)	CONCRETE MASONRY UNIT (M)	CONCRETE (C)
0	7/8"	-	-		-	-	-	-
1	1 1/2"	1 5/8"	-		-	3/4"	-	-
2	-	2 1/2"	2 1/2"		2x2	2x2	-	-
3	-	3 5/8"	3 5/8"		2x3	2x3	-	-
4	-	-	4"		2x4	2x4	4"	4"
5	-	-	5 1/2"		-	-	-	5"
6	-	6"	6"		2x6	2x6	6"	6"
8	-	-	8"		-	-	8"	8"
10	-	-	-		-	-	10"	10"
12	-	-	-		-	-	12"	12"

FIRE RATING: *(IF BLANK, NONRATED ASSEMBLY)*
1: 1 HOUR FIRE RESISTANT (ULXXX)
2: 2 HOUR FIRE RESISTANT (ULXXX)
3: 3 HOUR FIRE RESISTANT (ULXXX)
4: 4 HOUR FIRE RESISTANT (ULXXX)

SMOKE RATING: *(IF BLANK, NONRATED ASSEMBLY)*
S: SMOKE RATED (ULXXX)

SOUND ISOLATION RATING: *(IF BLANK, NONRATED ASSEMBLY)*
A: GENERAL ATTENUATION
40: STC 40 (EXAMPLE)

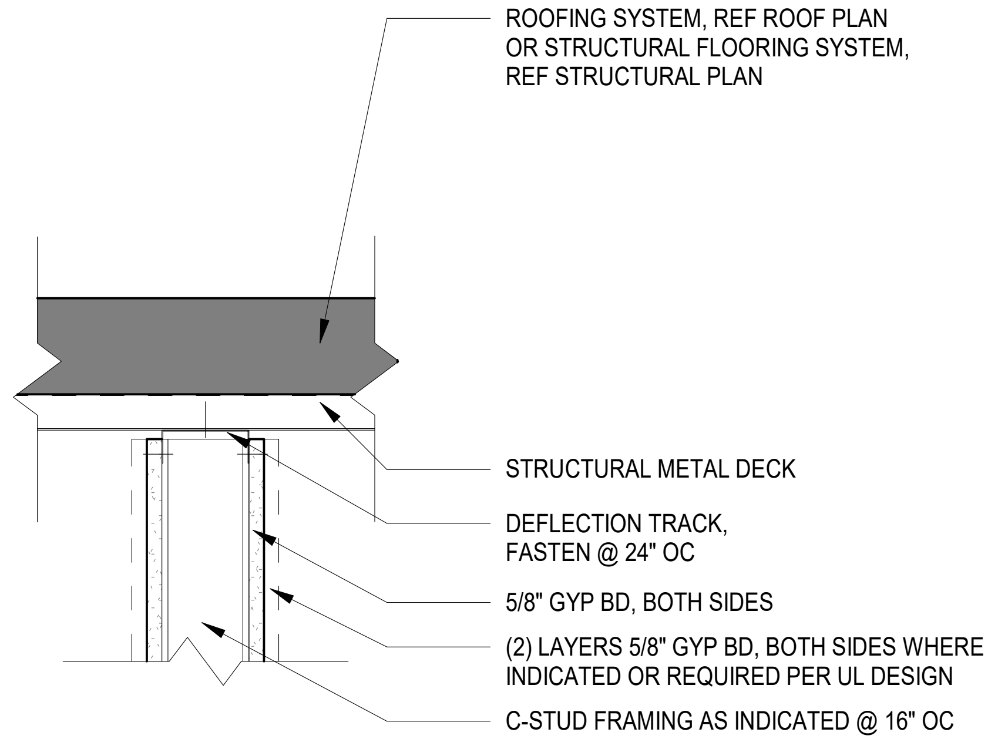
SPECIAL CONSTRUCTION ASSEMBLY: *(IF BLANK, N/A)*
L: LEAD LINED WALL ASSEMBLY



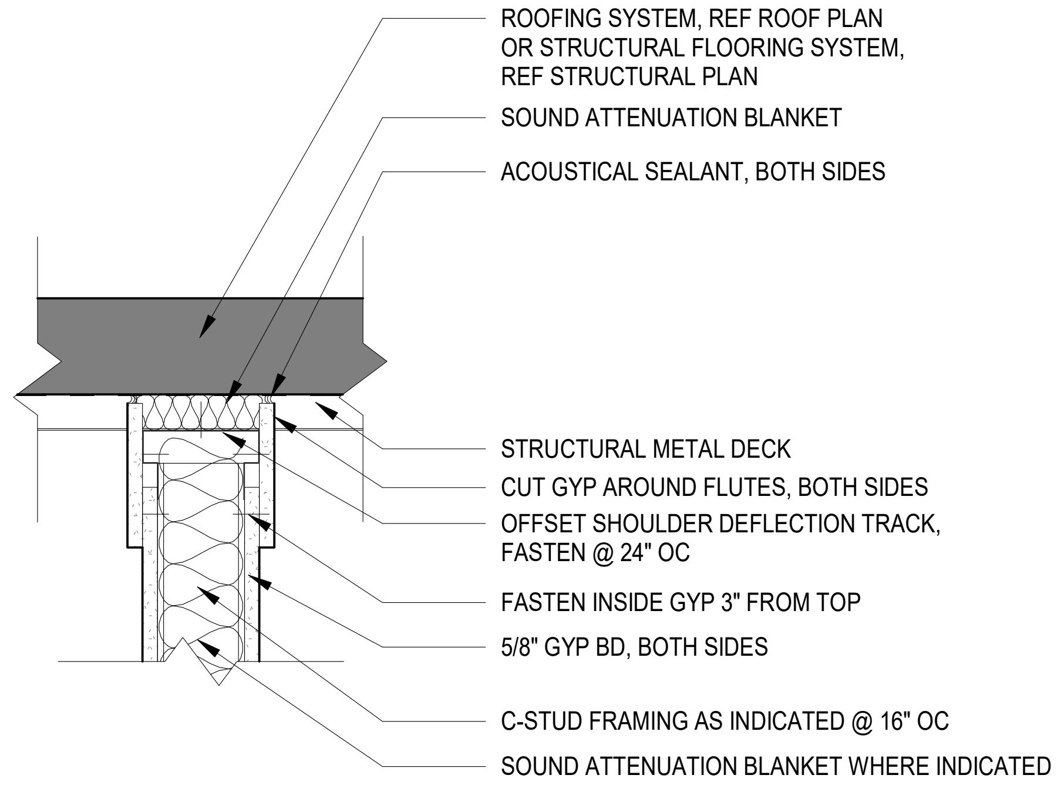
PARTITION SYMBOL

SCALE: 12" = 1'-0"

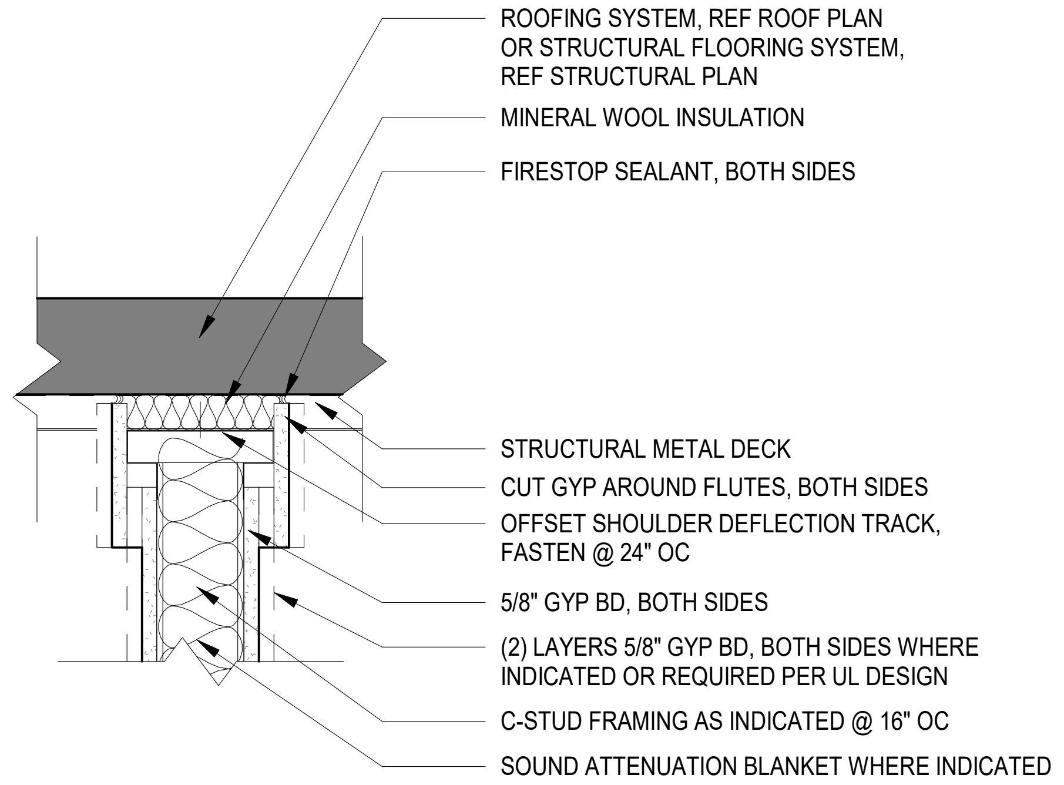
ALPHA BLDG SET 09-01-2026


ROOFING SYSTEM, REF ROOF PLAN OR STRUCTURAL FLOORING SYSTEM, REF STRUCTURAL PLAN
STRUCTURAL METAL DECK
DEFLECTION TRACK, FASTEN @ 24" OC
5/8" GYP BD, BOTH SIDES
(2) LAYERS 5/8" GYP BD, BOTH SIDES WHERE INDICATED OR REQUIRED PER UL DESIGN
C-STUD FRAMING AS INDICATED @ 16" OC

NON-RATED PARTITIONS

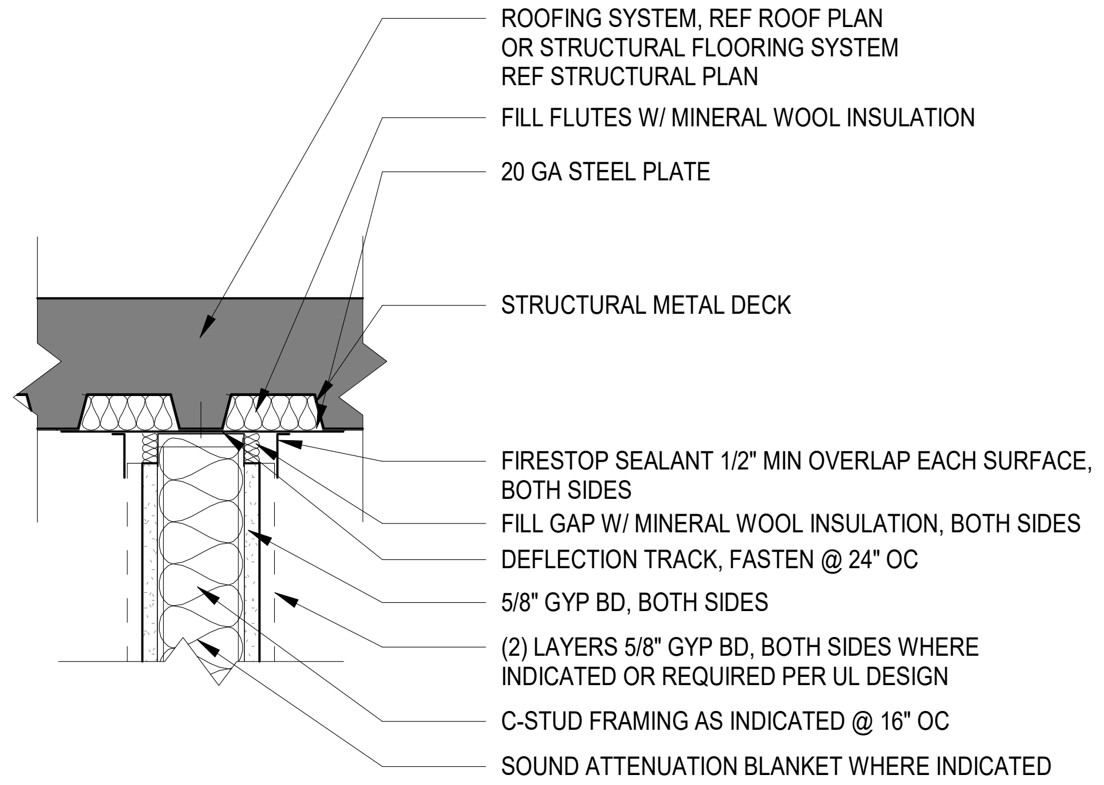

ROOFING SYSTEM, REF ROOF PLAN OR STRUCTURAL FLOORING SYSTEM, REF STRUCTURAL PLAN
SOUND ATTENUATION BLANKET
ACOUSTICAL SEALANT, BOTH SIDES
STRUCTURAL METAL DECK
CUT GYP AROUND FLUTES, BOTH SIDES
OFFSET SHOULDER DEFLECTION TRACK, FASTEN @ 24" OC
FASTEN INSIDE GYP 3" FROM TOP
5/8" GYP BD, BOTH SIDES
C-STUD FRAMING AS INDICATED @ 16" OC
SOUND ATTENUATION BLANKET WHERE INDICATED

ACOUSTICAL PARTITIONS


ROOFING SYSTEM, REF ROOF PLAN OR STRUCTURAL FLOORING SYSTEM, REF STRUCTURAL PLAN
MINERAL WOOL INSULATION
FIRESTOP SEALANT, BOTH SIDES
STRUCTURAL METAL DECK
CUT GYP AROUND FLUTES, BOTH SIDES
OFFSET SHOULDER DEFLECTION TRACK, FASTEN @ 24" OC
5/8" GYP BD, BOTH SIDES
(2) LAYERS 5/8" GYP BD, BOTH SIDES WHERE INDICATED OR REQUIRED PER UL DESIGN
C-STUD FRAMING AS INDICATED @ 16" OC
SOUND ATTENUATION BLANKET WHERE INDICATED

FIRE RATINGS:
UL DESIGN HW-D-0060 - 1 HR & 2 HR ASSEMBLY

RATED PARTITIONS
(PERPENDICULAR TO DECKING)


ROOFING SYSTEM, REF ROOF PLAN OR STRUCTURAL FLOORING SYSTEM REF STRUCTURAL PLAN
FILL FLUTES W/ MINERAL WOOL INSULATION
20 GA STEEL PLATE
STRUCTURAL METAL DECK
FIRESTOP SEALANT 1/2" MIN OVERLAP EACH SURFACE, BOTH SIDES
FILL GAP W/ MINERAL WOOL INSULATION, BOTH SIDES
DEFLECTION TRACK, FASTEN @ 24" OC
5/8" GYP BD, BOTH SIDES
(2) LAYERS 5/8" GYP BD, BOTH SIDES WHERE INDICATED OR REQUIRED PER UL DESIGN
C-STUD FRAMING AS INDICATED @ 16" OC
SOUND ATTENUATION BLANKET WHERE INDICATED

FIRE RATINGS:
UL DESIGN HW-D-0264 - 1 HR & 2 HR ASSEMBLY

RATED PARTITIONS
(PARALLEL TO DECKING)

PARTITION CLOSURE DETAILS

SCALE: 1 1/2" = 1'-0"

Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

Plot Date: 8/19/2026 3:18:31 PM

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

INTERIOR PARTITION TYPES AND DETAILS

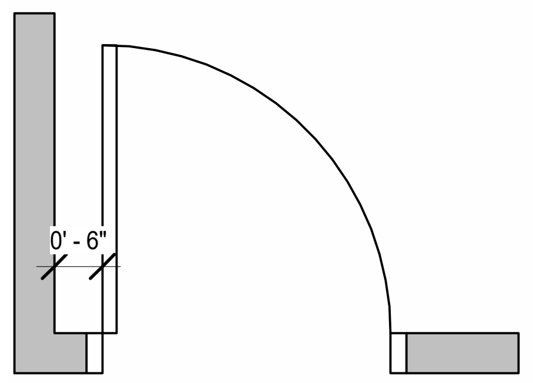
DRAWING NUMBER
A900

DOOR SCHEDULE

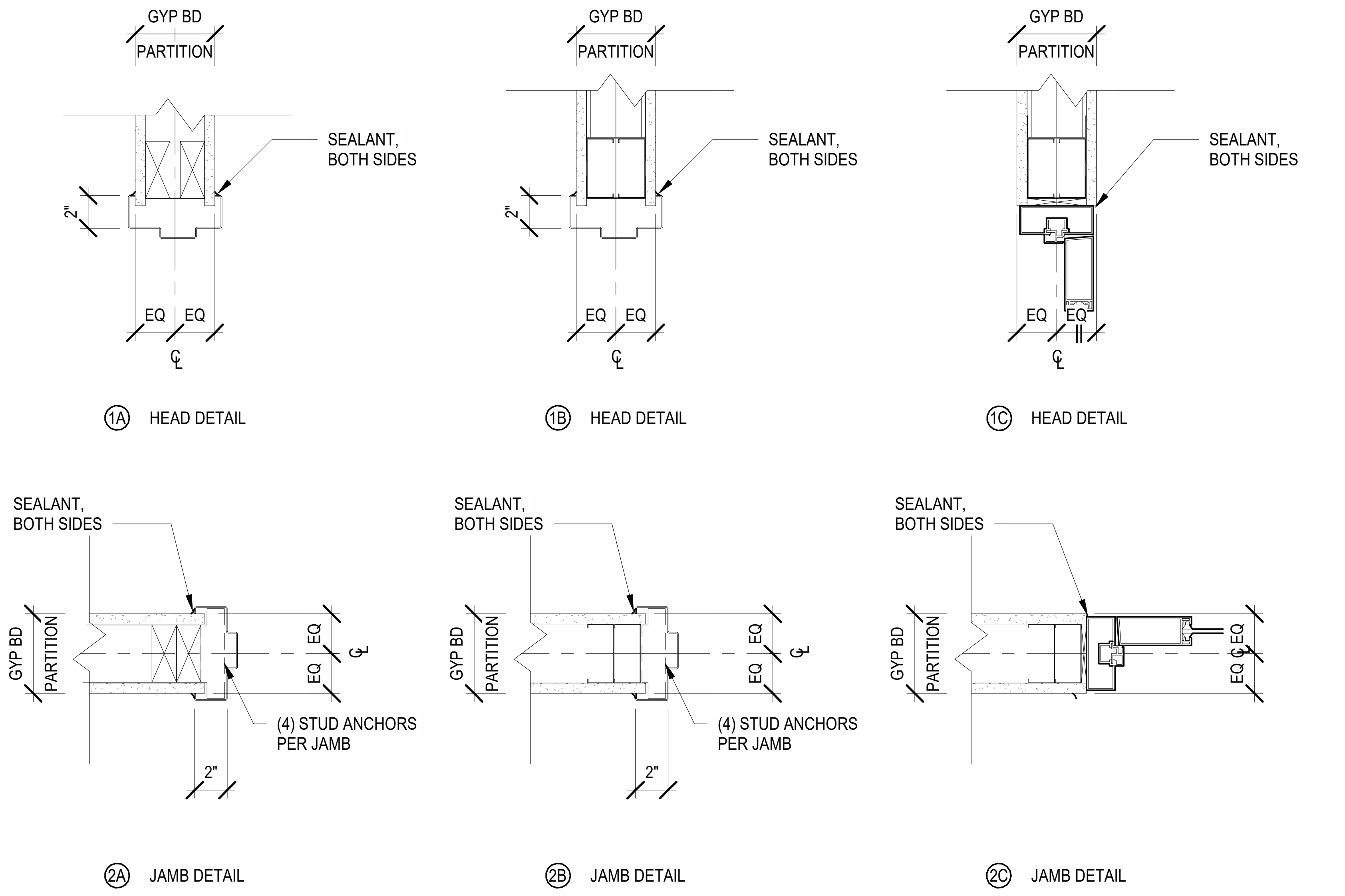
DOOR NO.	PANEL					FRAME			ASSY RATING	DETAILS		REMARKS
	WIDTH	HEIGHT	MATERIAL	TYPE	GLASS	MATERIAL	TYPE	GLASS		HEAD	JAMB	
1ST FLOOR- EXISTING												
100A	6' - 0"	7' - 0"	AL	GG	G2	AL	1			6/A920	7/A920	
101A	6' - 0"	7' - 0"	AL	GG	G2	AL	1			1C	2C	
101B	6' - 0"	7' - 0"	AL	GG	G4	AL	1		1	1C	2C	
101C	3' - 0"	7' - 0"	AL	2G	G4	AL	1		1			ACCESS CONTROL READER & STRIKE
101D	6' - 0"	7' - 0"	AL	GG	G4	AL	1		1	1C	2C	
102	3' - 0"	7' - 0"	AL	2G	G2	AL	2	G2		6/A920	7/A920	
105	3' - 0"	7' - 0"	WD	F	-	HM	1		-	1B		EXISTING DOOR w/ NEW HARDWARE, ACCESS CONTROL READER & STRIKE
110	3' - 0"	7' - 0"	WD	F	-	HM	1		-	1B	2B	
111	3' - 0"	7' - 0"	WD	F	-	HM	1		-	1B	2B	
112	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	REUSE EXISTING IF IN GOOD CONDITION
115	3' - 0"	7' - 0"	WD	F	-	HM	1		1	1B	2B	
127	3' - 0"	7' - 0"	WD	F	-	HM	2		1			
139	3' - 0"	7' - 0"	WD	F	-	HM	3	G3		1B	2B	
140	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	ACCESS CONTROL READER & STRIKE
141	3' - 6"	7' - 0"	HM	F	-	HM	2			4/A920	5/A920	
142	6' - 0"	7' - 0"	WD	FF		HM	1			1B	2B	
143A	3' - 0"	7' - 0"	AL	2G	G4	AL	1		1		2C	
143B	6' - 0"	7' - 0"	WD	FF		HM	1			1B	2B	
143C	3' - 0"	7' - 0"	AL	2G	G4	AL	1		1		2C	ACCESS CONTROL READER & STRIKE
143D	3' - 0"	7' - 0"	HM	F	-	HM	1		1			ACCESS CONTROL READER & STRIKE
143F	3' - 0"	7' - 0"	AL	2G	G2	AL	2	G2		6/A920	3/A920	
144	3' - 0"	7' - 0"	AL	2G	G2	AL	2	G2		6/A920	3/A920	
145	3' - 0"	7' - 0"	WD	F	-	HM	1		-	1B	2B	
146	3' - 0"	7' - 0"	WD	F	-	HM	1		-	1B	2B	
2ND FLOOR - EXISTING												
222	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
2ND FLOOR - ADDITION												
237	3' - 0"	7' - 0"	WD	F	-	HM	1		-	1B	2B	
238	3' - 0"	7' - 0"	WD	F	-	HM	1		-	1B	2B	
239	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
240	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
241	3' - 0"	7' - 0"	WD	F	-	HM	1		-	1B	2B	
242	3' - 0"	7' - 0"	WD	F	-	HM	1		-	1B	2B	
243	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
244	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
245	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
247	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
248	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
249	3' - 0"	7' - 0"	WD	F	-	HM	1		1	1B	2B	
250	3' - 0"	7' - 0"	WD	F	-	HM	1		-	1B	2B	
251	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
252	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
253	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
254	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
255	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
256	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
257	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
258	3' - 0"	7' - 0"	WD	N	G3	HM	1			1B	2B	
259	3' - 0"	7' - 0"	WD	F	-	HM	1		-	1B	2B	

GLAZING LEGEND:

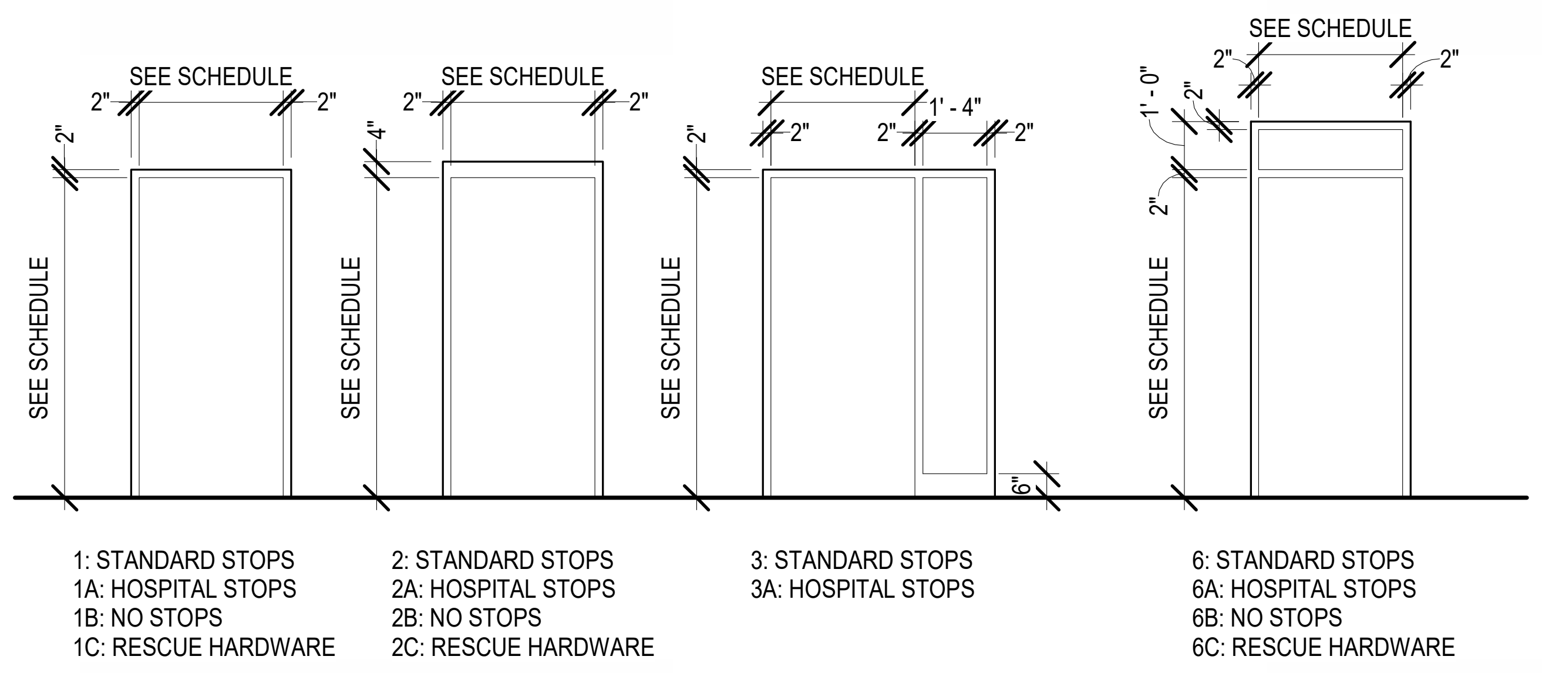
G1	1" INSULATED LOW-E GLAZING
G2	1" INSULATED LOW-E TEMPERED GLAZING
G3	1/4" CLEAR TEMPERED GLASS
G4	FIRE RATED SAFETY GLAZING



1 TYPICAL DOOR LOCATION
SCALE: 1/2" = 1'-0"

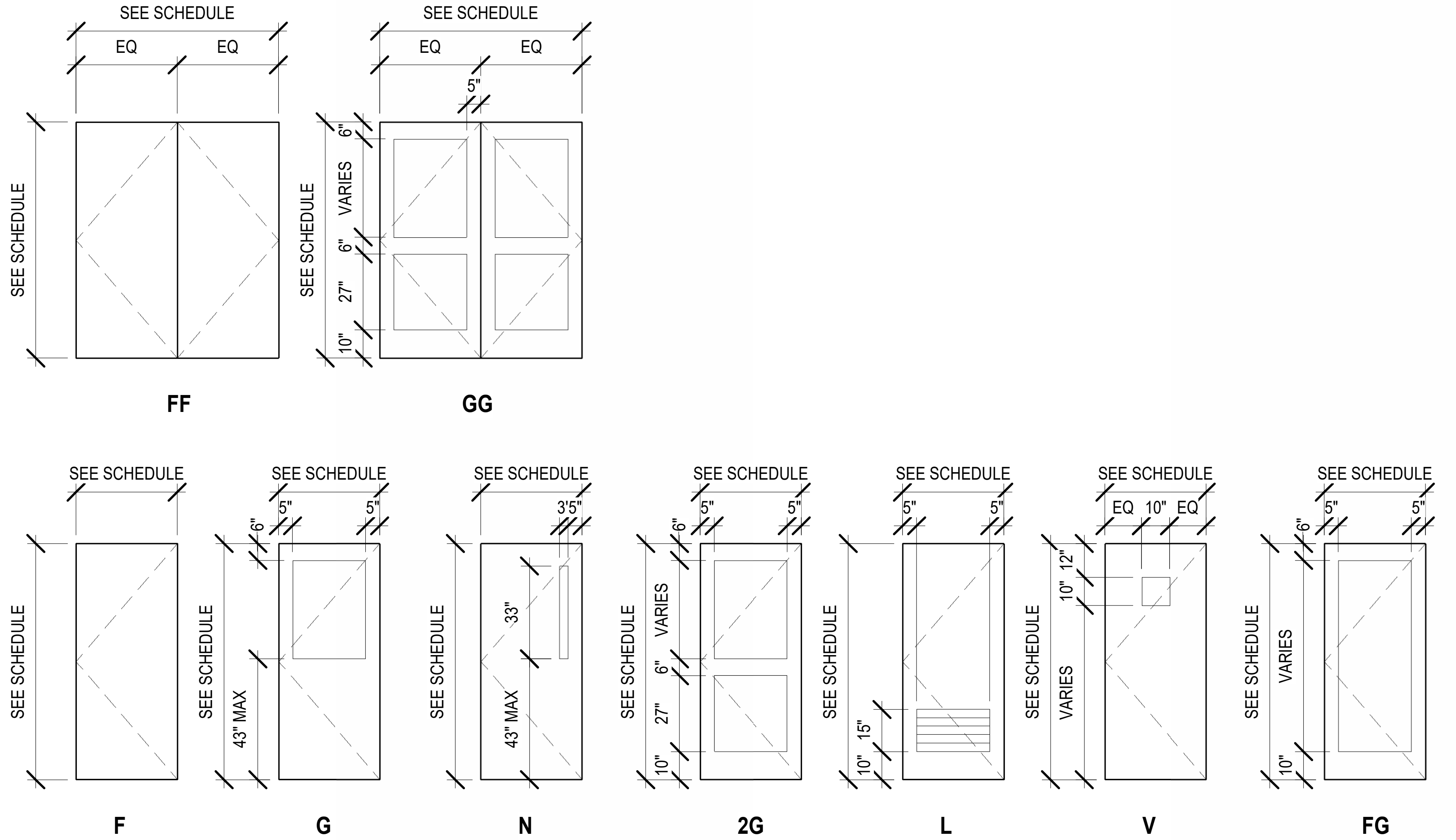


DOOR FRAME DETAILS
SCALE: 1 1/2" = 1'-0"

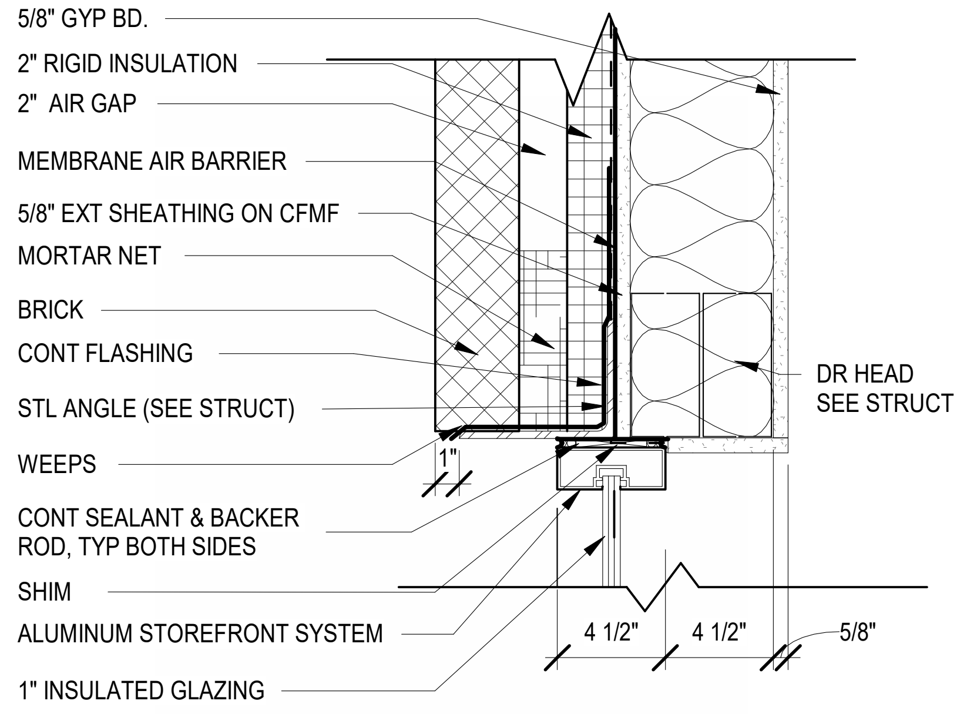


FRAME TYPES
SCALE: 1/4" = 1'-0"

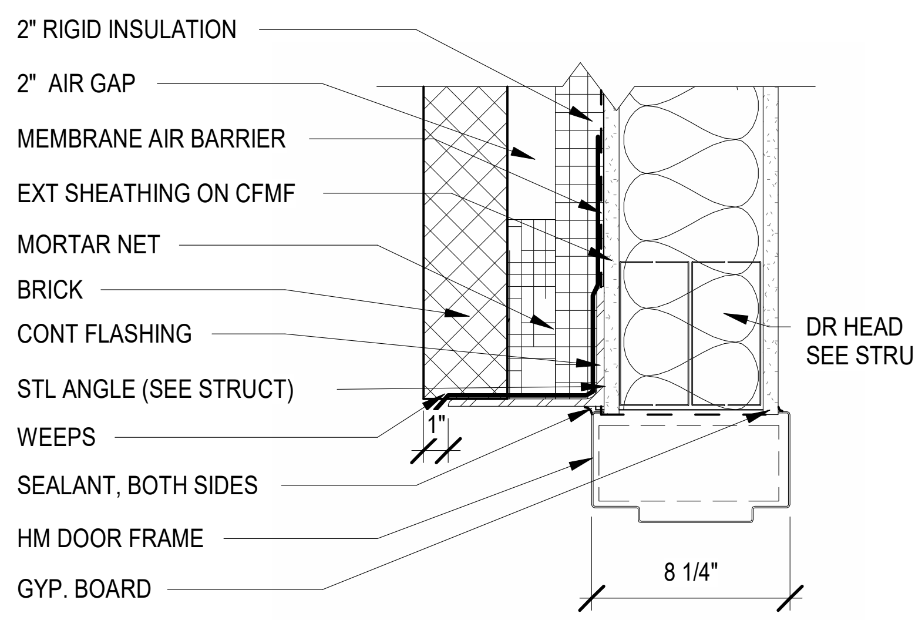
ALPHA BLDG SET 09-01-2026



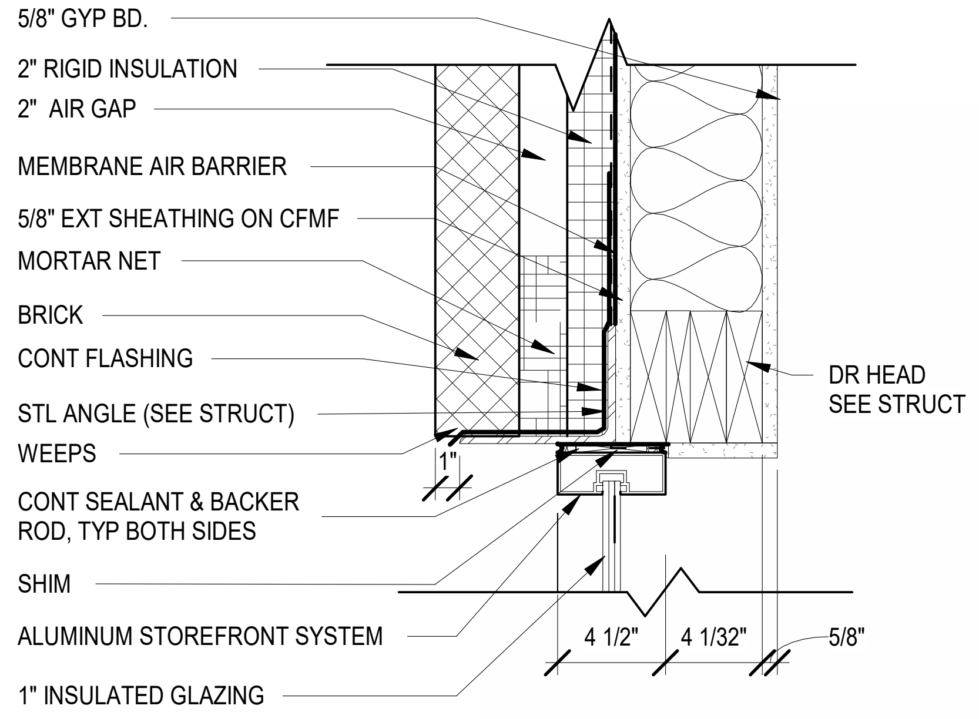
DOOR TYPES
SCALE: 1/4" = 1'-0"



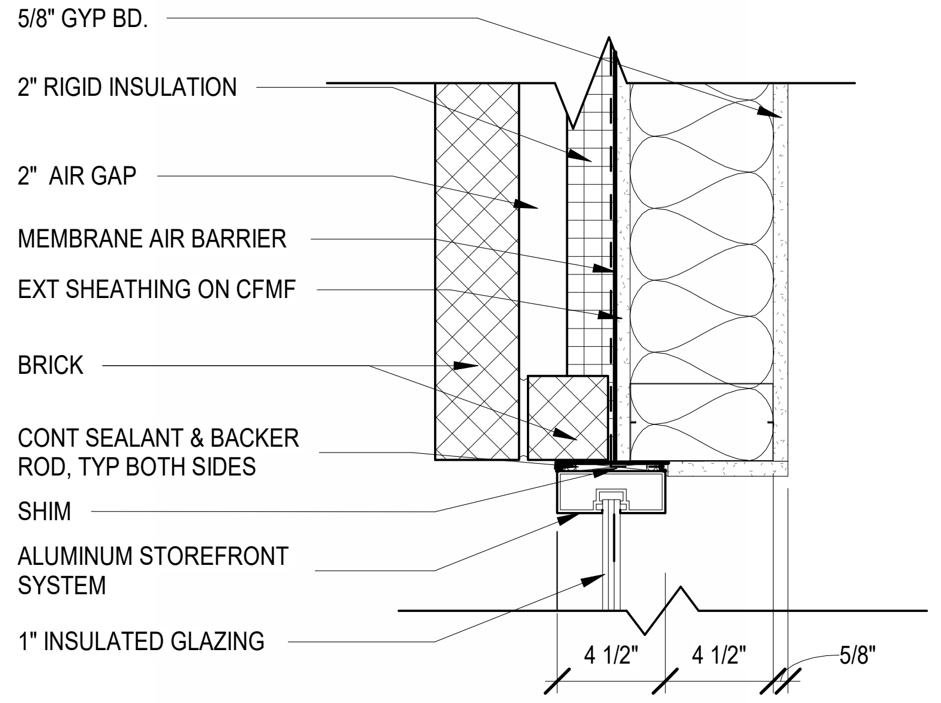
2 EXT STOREFRONT HEAD @ MASONRY
SCALE: 1 1/2" = 1'-0"



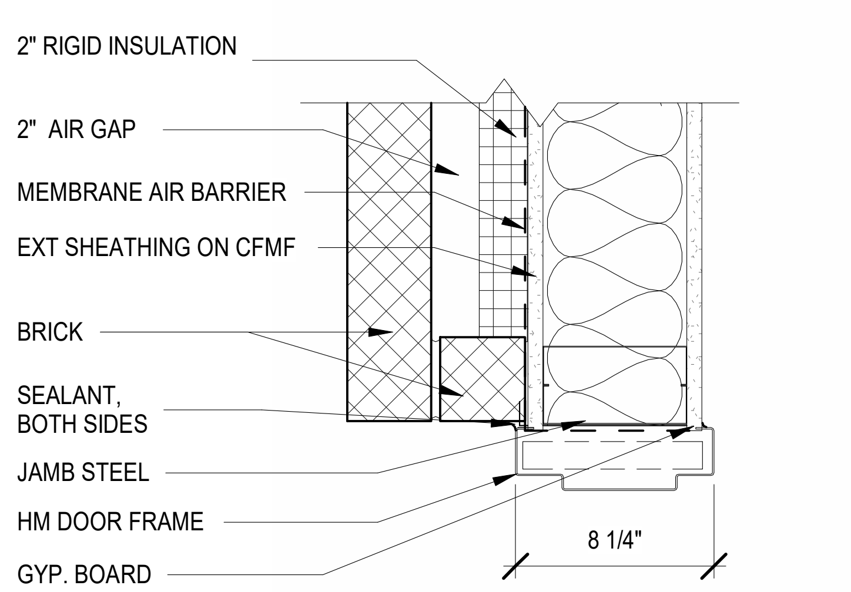
4 EXT DOOR HEAD @ MASONRY
SCALE: 1 1/2" = 1'-0"



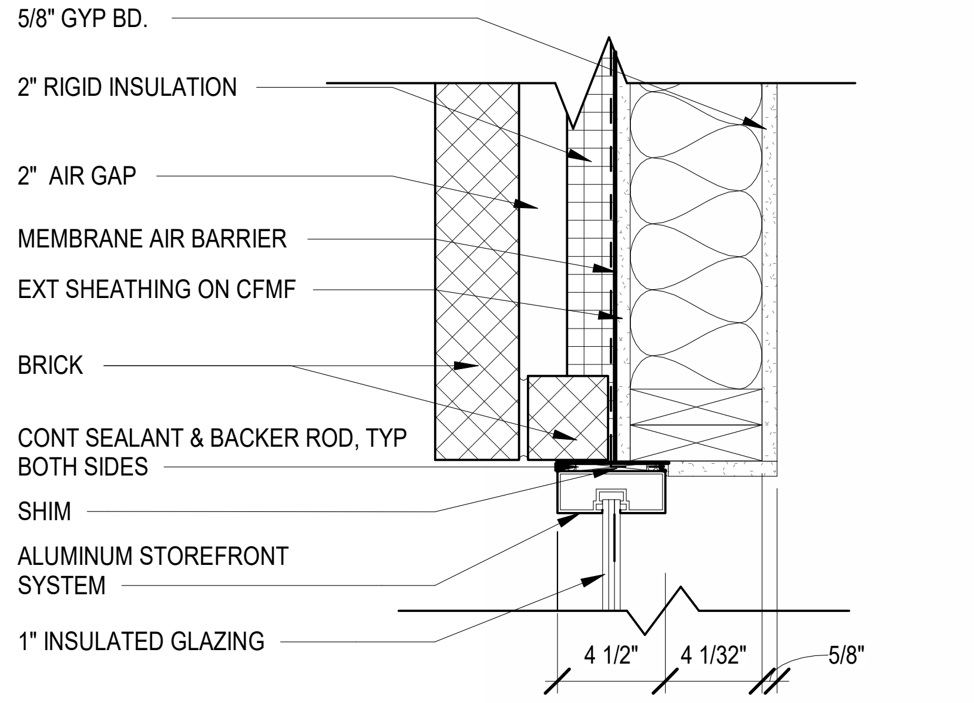
6 EXT STOREFRONT WD HEAD @ MASONRY
SCALE: 1 1/2" = 1'-0"



3 EXT STOREFRONT JAMB @ MASONRY
SCALE: 1 1/2" = 1'-0"



5 EXT DOOR JAMB @ MASONRY
SCALE: 1 1/2" = 1'-0"



7 EXT STOREFRONT WD JAMB @ MASONRY
SCALE: 1 1/2" = 1'-0"

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: Designer
DRAWN: Author
CHECKED: Checker
CHECKED:
APPROVED: Approver
FILENAME
BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

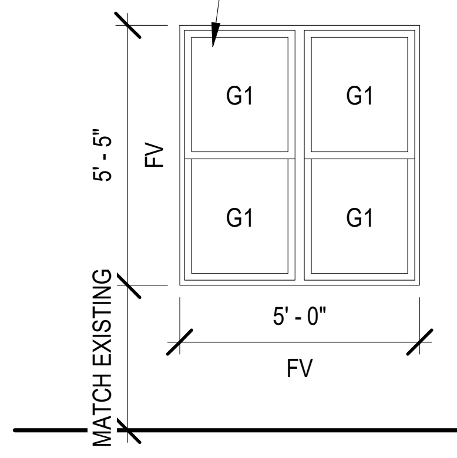
DOOR SCHEDULE AND DETAILS

DRAWING NUMBER
A920

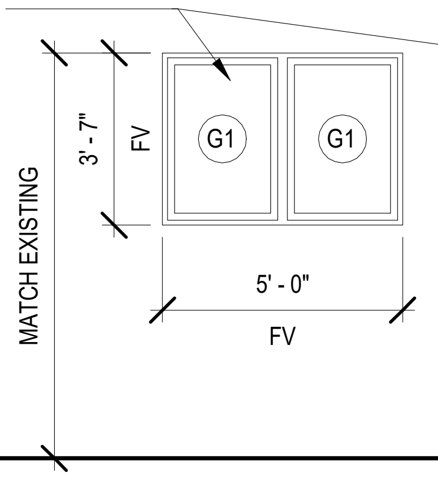
Plot Date: 8/19/2026 3:18:33 PM Path: Autodesk Docs://NCWSA Admin Bldg_V25/616202-NCWSA-ARCH_V25(Central).rvt

WINDOW TYPES

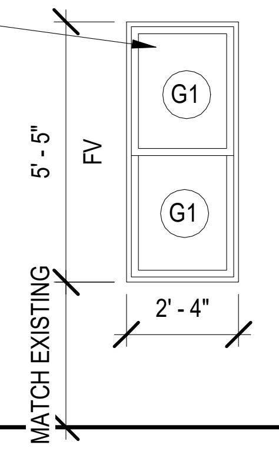
WINDOWS SHALL MATCH EXISTING
DOUBLE-HUNG WINDOWS
VERIFY SIZE IN FIELD



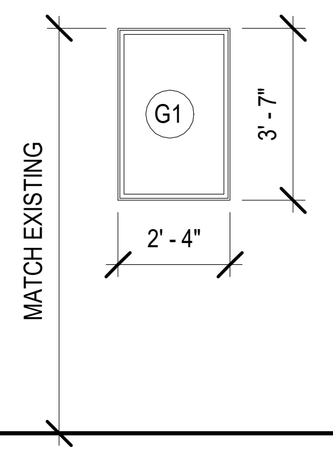
WINDOW TYPE A



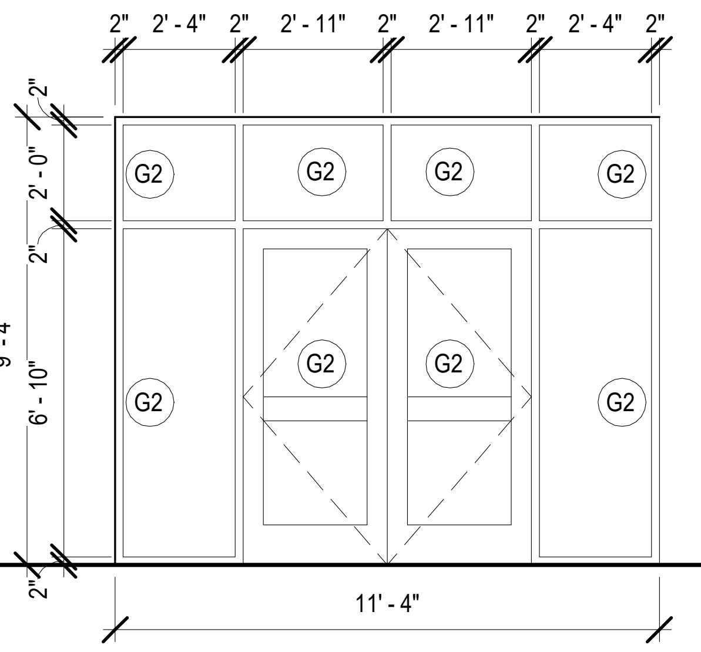
WINDOW TYPE B



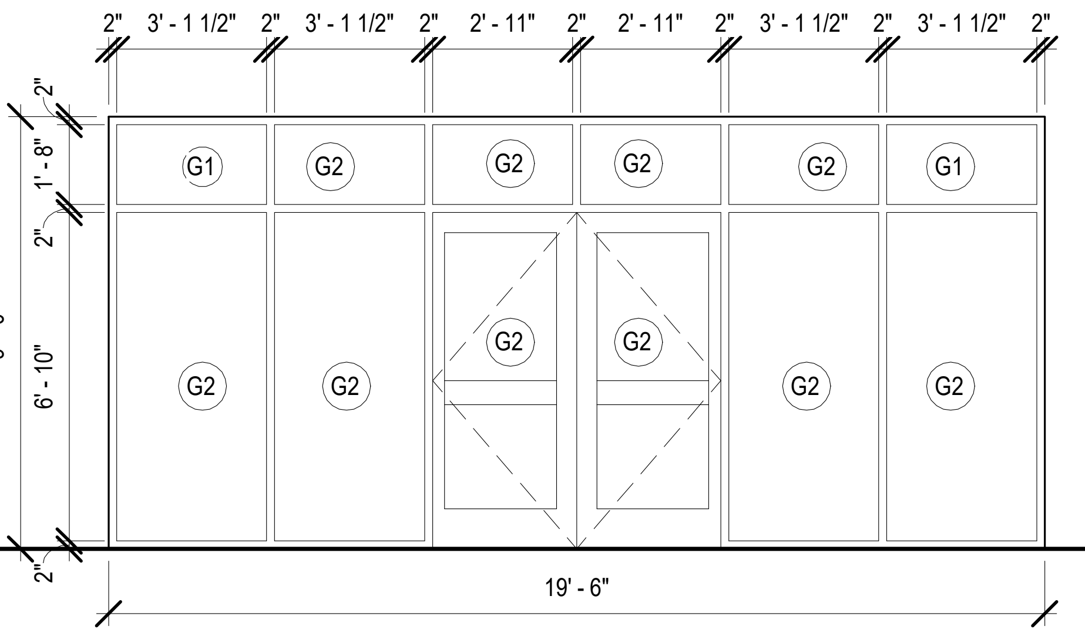
WINDOW TYPE C



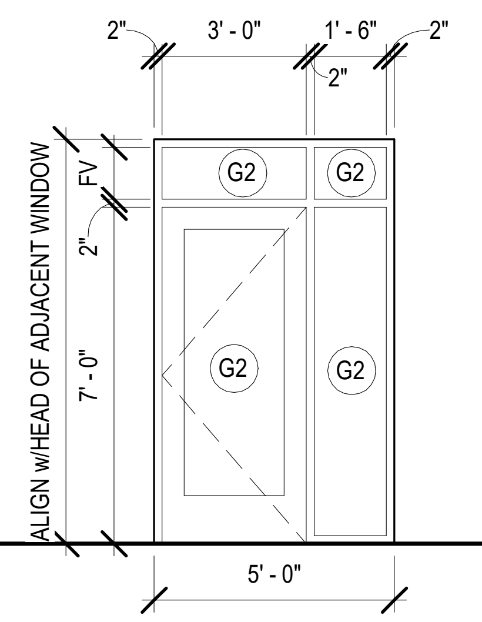
WINDOW TYPE C-1



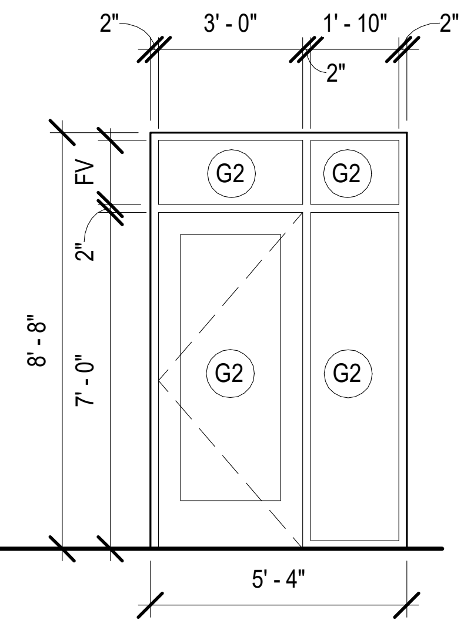
WINDOW TYPE D



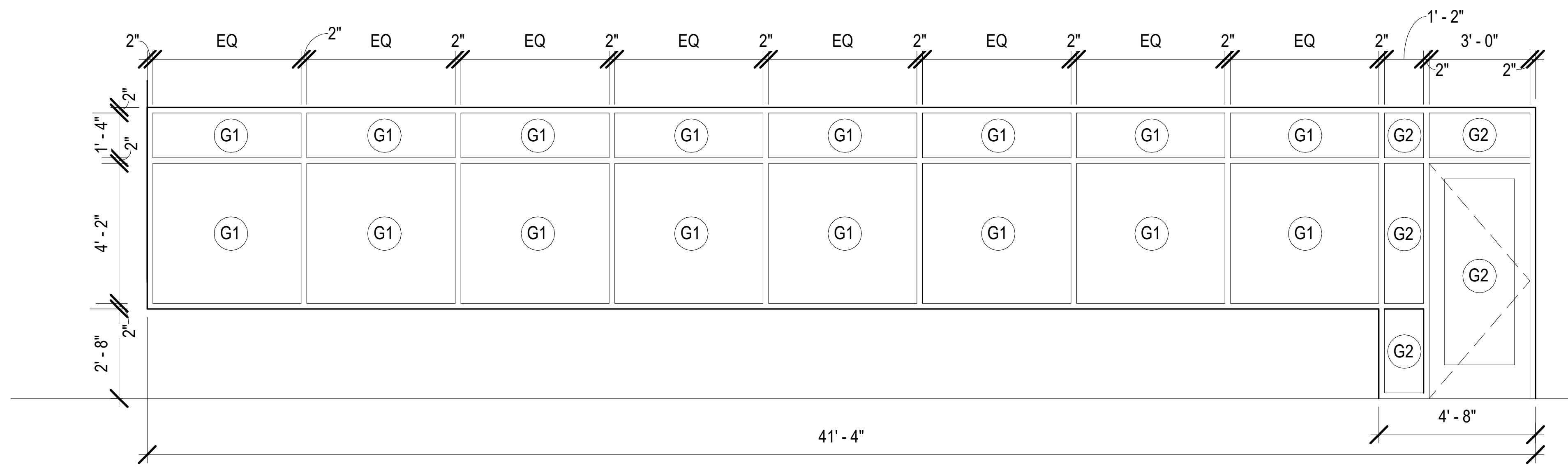
WINDOW TYPE E



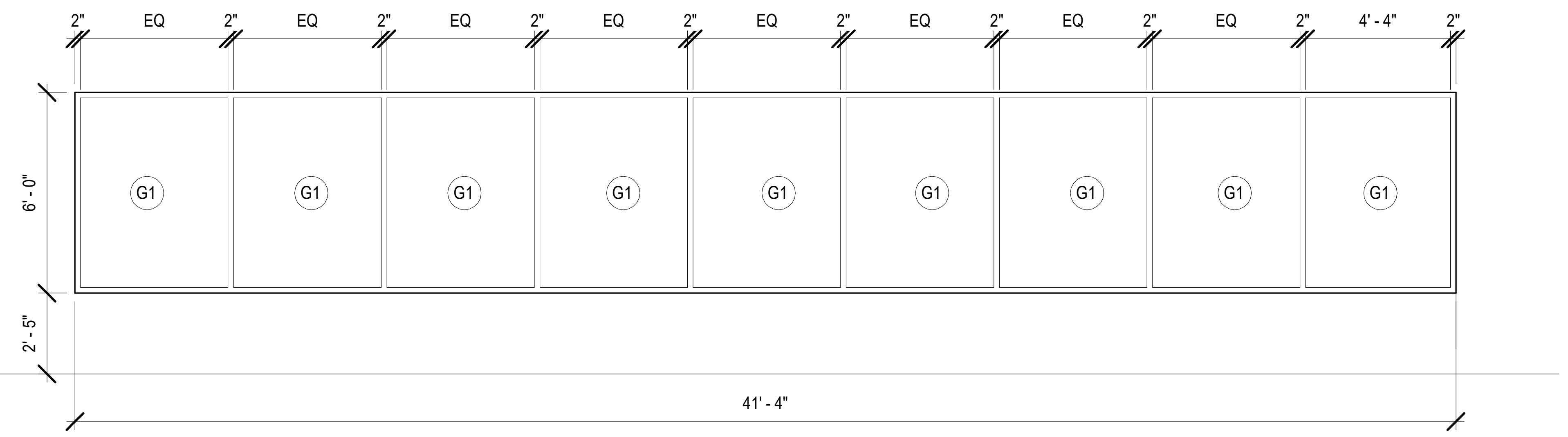
WINDOW TYPE F



WINDOW TYPE F-1

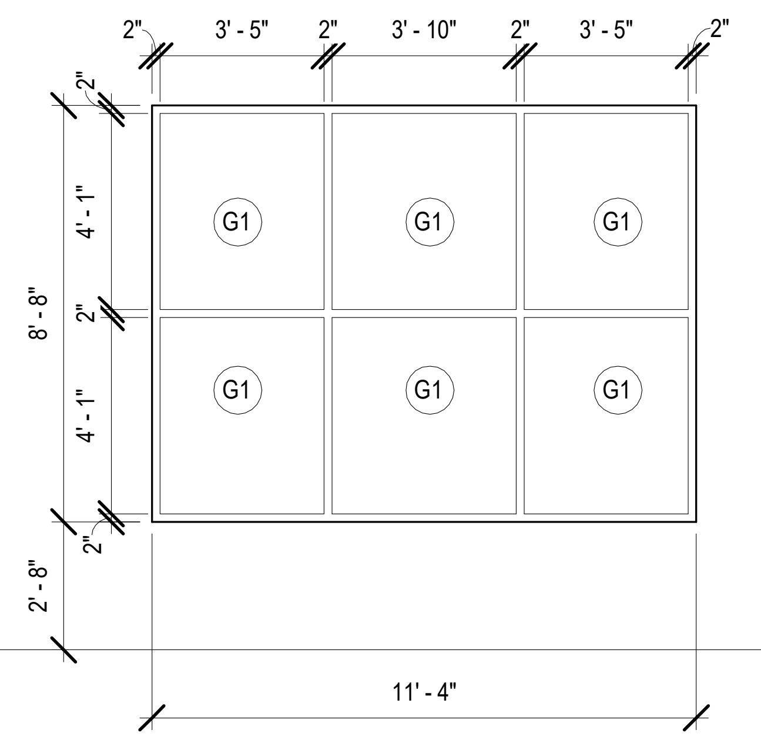


WINDOW TYPE G



WINDOW TYPE H

ALPHA BLDG SET 09-01-2026



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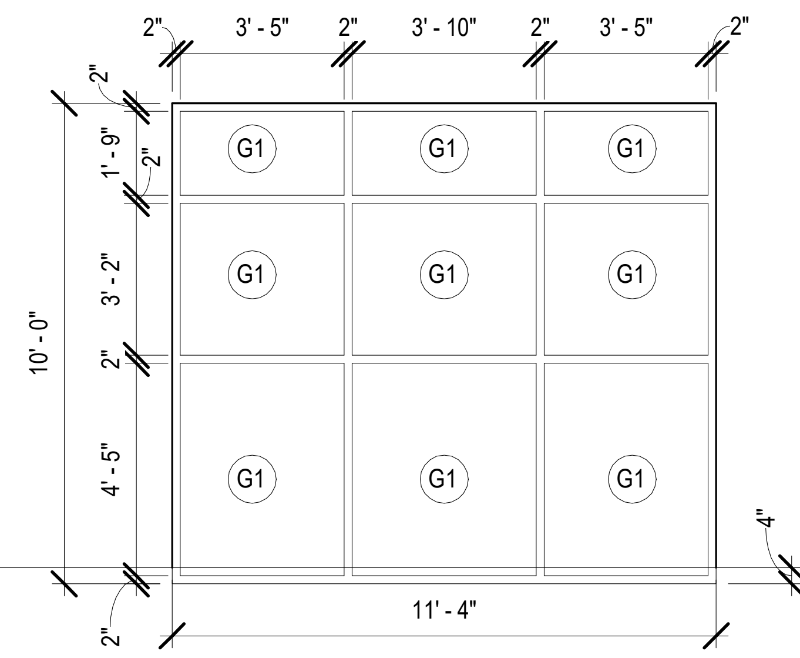
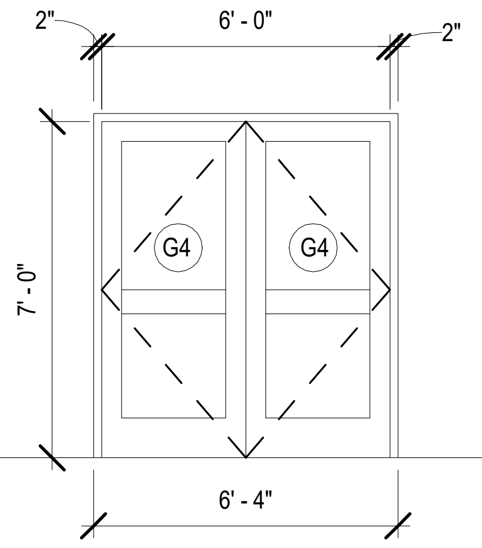
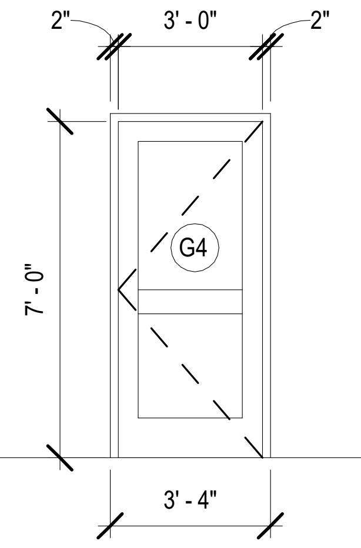


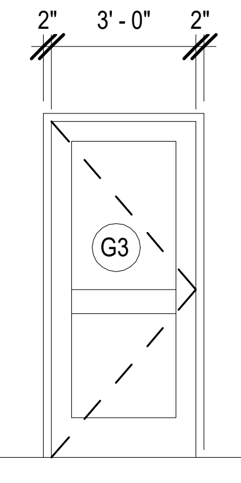
WINDOW TYPE L



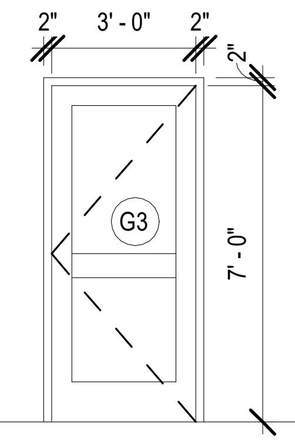
WINDOW TYPE M



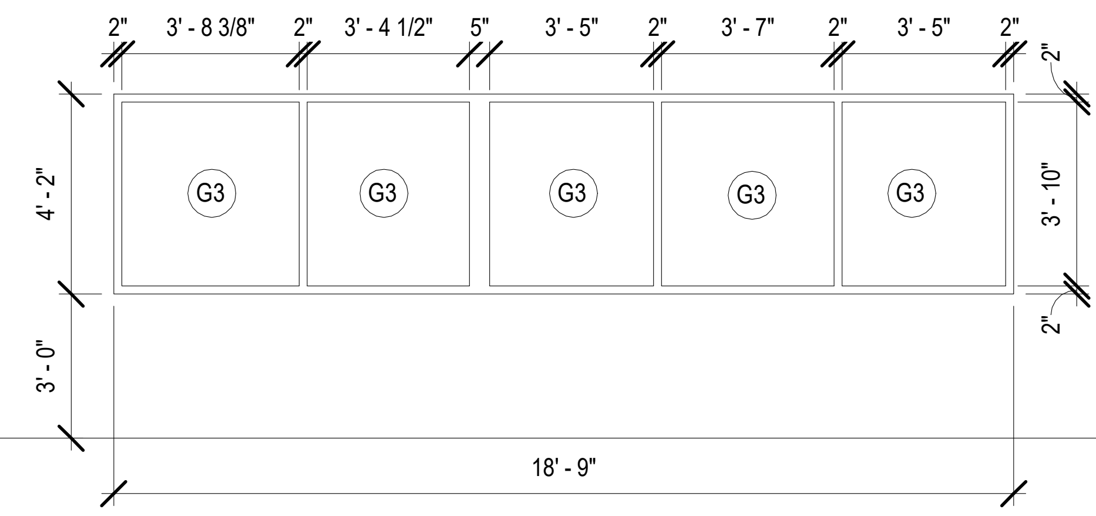
WINDOW TYPE N



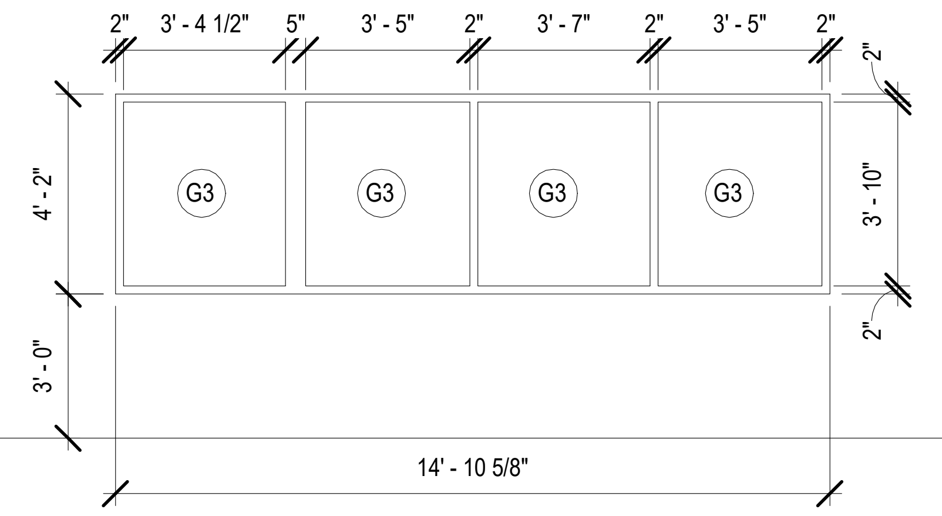
WINDOW TYPE O



WINDOW TYPE P



WINDOW TYPE Q



WINDOW TYPE R

GLAZING LEGEND:

G1	1" INSULATED LOW-E GLAZING
G2	1" INSULATED LOW-E TEMPERED GLAZING
G3	1/4" CLEAR TEMPERED GLASS
G4	FIRE RATED SAFETY GLAZING

Path: Autodesk Docs://NCWSA Admin Bldg_V25/616202-NCWSA-ARCH_V25(Central).rvt

Plot Date: 8/19/2026 3:18:34 PM

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

7/1/2026

CONSTRUCTION
DOCUMENTS
07/01/2026

NCWSA OFFICE
ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: Designer
DRAWN: Author
CHECKED: Checker
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

WINDOW TYPES

DRAWING NUMBER
A921

FINISH SELECTIONS:

FLOORING

LVT-1 - LUXURY VINYL TILE

MANUFACTURER: TARKETT
COLLECTION: CONTOUR
PATTERN: PCPO PROPER OAK
COLOR: 4630 SOMERSET
SIZE: 6" X 48"
INSTALL:

CPT-1 - CARPET TILE

MANUFACTURER: TARKETT
COLLECTION: POWERBOND HYBRID CARPET
PATTERN: PEACE 11837
COLOR: EXPRESSION RHTHM 38306
SIZE: 24" X 24"
INSTALL: VERTICAL ASHLAR

CPT-2 - CARPET TILE

MANUFACTURER: TARKETT
COLLECTION: POWERBOND HYBRID CARPET
PATTERN: EBBING WAVES 11734
COLOR: DEEP LAGOON 62906
SIZE: 24" X 24"
INSTALL: VERTICAL ASHLAR

CPT-3 - CARPET TILE

MANUFACTURER: TARKETT
COLLECTION: POWERBOND HYBRID CARPET
PATTERN: EBBING WAVES 11734
COLOR: TELLURIDE 62912
SIZE: 24" X 24"
INSTALL: VERTICAL ASHLAR

CT-1 - CERAMIC TILE

MANUFACTURER: DALTILE
COLLECTION: REKINDLE
COLOR: MEDIUM GREY RK13
SIZE: 24" X 24" & 24" X 48"
INSTALL: CUSTOM PATTER
GROUT: TBD

CT-2 - CERAMIC TILE

MANUFACTURER: DALTILE
COLLECTION: MEMOIR
COLOR: COSMO BLUE MATTE
SIZE: 12" X 12"
INSTALL: GRID
GROUT: TBD

SC-1 - SEALED CONCRETE

TRANSITION STRIPS (FLOORING):

TS-1 - TRANSITION STRIP

MANUFACTURER: TARKETT
PRODUCT: CTA-XX-N
COLOR: 63 BURNT UMBER
LOCATION: TBD

PLASTIC LAMINATES:

PLAM-1 - PLASTIC LAMINATE

MANUFACTURER: FORMICA
TYPE: FORMICA - COMMERCIAL LAMINATE
COLOR: 5884 CHESTNUT WOODLINE
FINISH: MATTE

PLAM-2 - PLASTIC LAMINATE

MANUFACTURER: FORMICA
TYPE: FORMICA - COMMERCIAL LAMINATE
COLOR: 6129 GRAY FABRIC
FINISH: MATTE

SOLID SURFACES:

SS-1 - SOLID SURFACE

MANUFACTURER: FORMICA
STYLE: EVERFORM SOLID SURFACE
COLOR: 931 WHITE SPEX

SS-2 - SOLID SURFACE

MANUFACTURER: ASI GROUP
STYLE: COLOR THRU PHENOLIC
COLOR: 3871 DARK GREY

WALL PAINT:

PT-1 - MAIN PAINT

MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7100 ARCADE WHITE
FINISH: EGGSHELL

PT-2 - ACCENT PAINT

MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6809 LOBELIA
FINISH: EGGSHELL

PT-3 - SOFFIT PAINT

MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW6506 VAST SKY
FINISH: EGGSHELL

NOTE: EACH OFFICE TO RECEIVE ONE WALL PAINTED IN THE ACCENT COLOR

WALL TILE:

CT-3 - CERAMIC WALL TILE

MANUFACTURER: DALTILE
COLLECTION: COLOR WHEEL CLASSIC
COLOR: 0169 WATERFALL GLOSSY
SIZE: 6" X 6"
INSTALL: GRID
GROUT: TBD

CT-5 - CERAMIC WALL TILE

MANUFACTURER: DALTILE
COLLECTION: COLOR WHEEL CLASSIC
COLOR: 0169 WATERFALL GLOSSY
SIZE: 3" X 6"
INSTALL: MOSAIC RUNNING BOARD
GROUT: TBD

CT-6 - CERAMIC WALL TILE

MANUFACTURER: DALTILE
COLLECTION: COLOR WHEEL CLASSIC
COLOR: 1469 GALAXY GLOSSY
SIZE: 3" X 6"
INSTALL: MOSAIC RUNNING BOARD
GROUT: TBD

WALL BASE:

WB-1 - WALL BASE

MANUFACTURER: TARKETT
PRODUCT: DURA COVE WALLBASE
PROFILE: COVE
COLOR: 63 BURNT UMBER
SIZE: 4"
NOTE:

CT-4 - CERAMIC TILE WALL BASE

MANUFACTURER: DALTILE
PRODUCT: CERAMIC TILE WALL BASE
PROFILE: BULLNOSE
COLOR: 0169 WATERFALL GLOSSY
SIZE: 6" X 6"
GROUT: TBD

CEILINGS:

ACT-1 - ACOUSTICAL CEILING TILE (TYP CEILING)

MANUFACTURER: ARMSTRONG
PRODUCT: CLEANROOM VL
TILE COLOR: WHITE
SIZE: 24" X 24"
GRID: STANDARD 2' X 2'
GRID COLOR: WHITE

GWB-1 - GYP BD CEILING PAINT

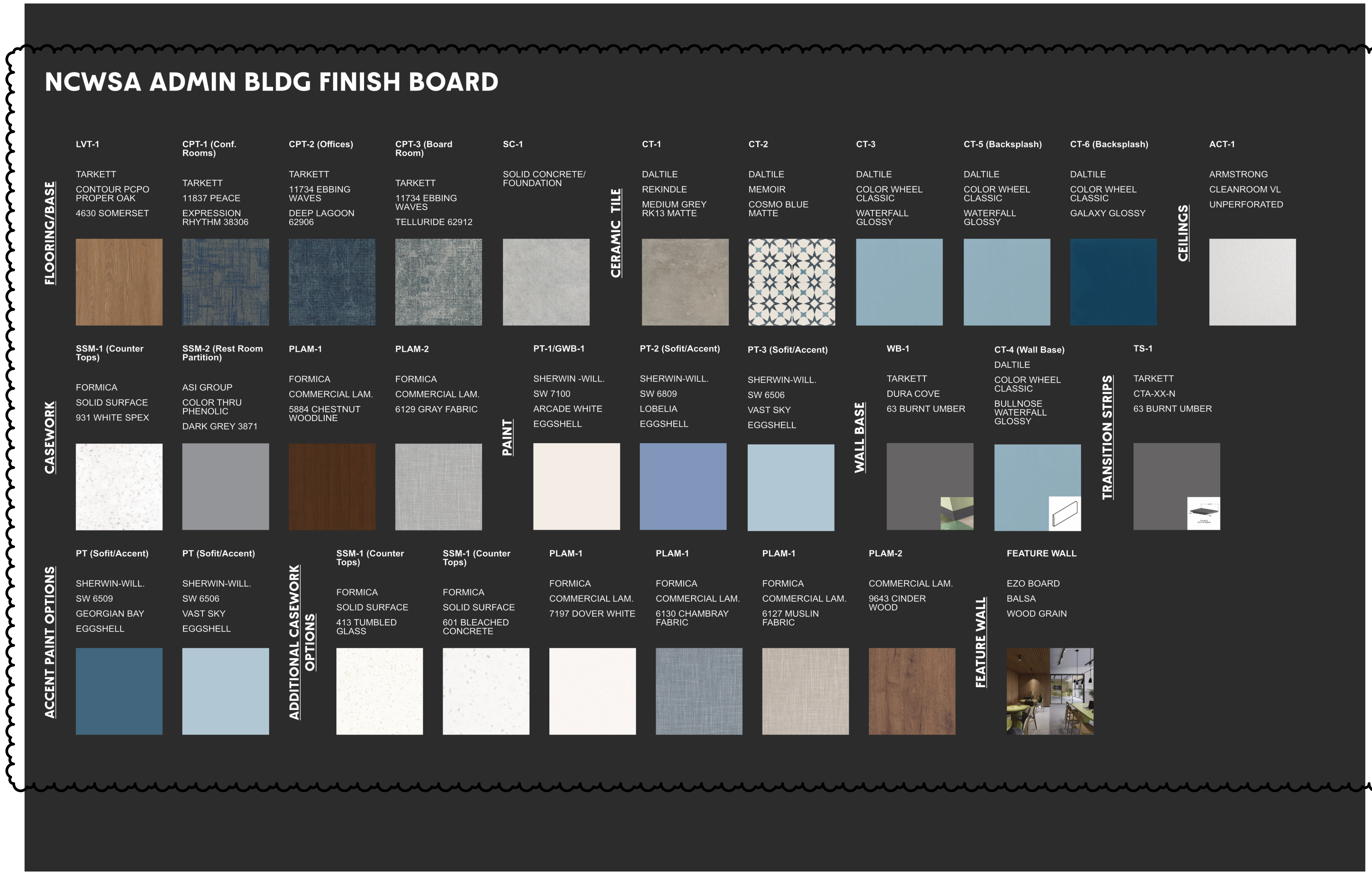
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW7100 ARCADE WHITE
FINISH: EGGSHELL

FEATURE WALL:

FW-1 - FEATURE WALL

MANUFACTURER: EZO BORD
COLLECTION: BALSA
COLOR: CUSTOM WOOD GRAIN
SIZE: 2" X 6"

1



1

ALPHA BLDG SET 09-01-2026

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA
NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

FINISH SPECIFICATIONS

DRAWING NUMBER
A950

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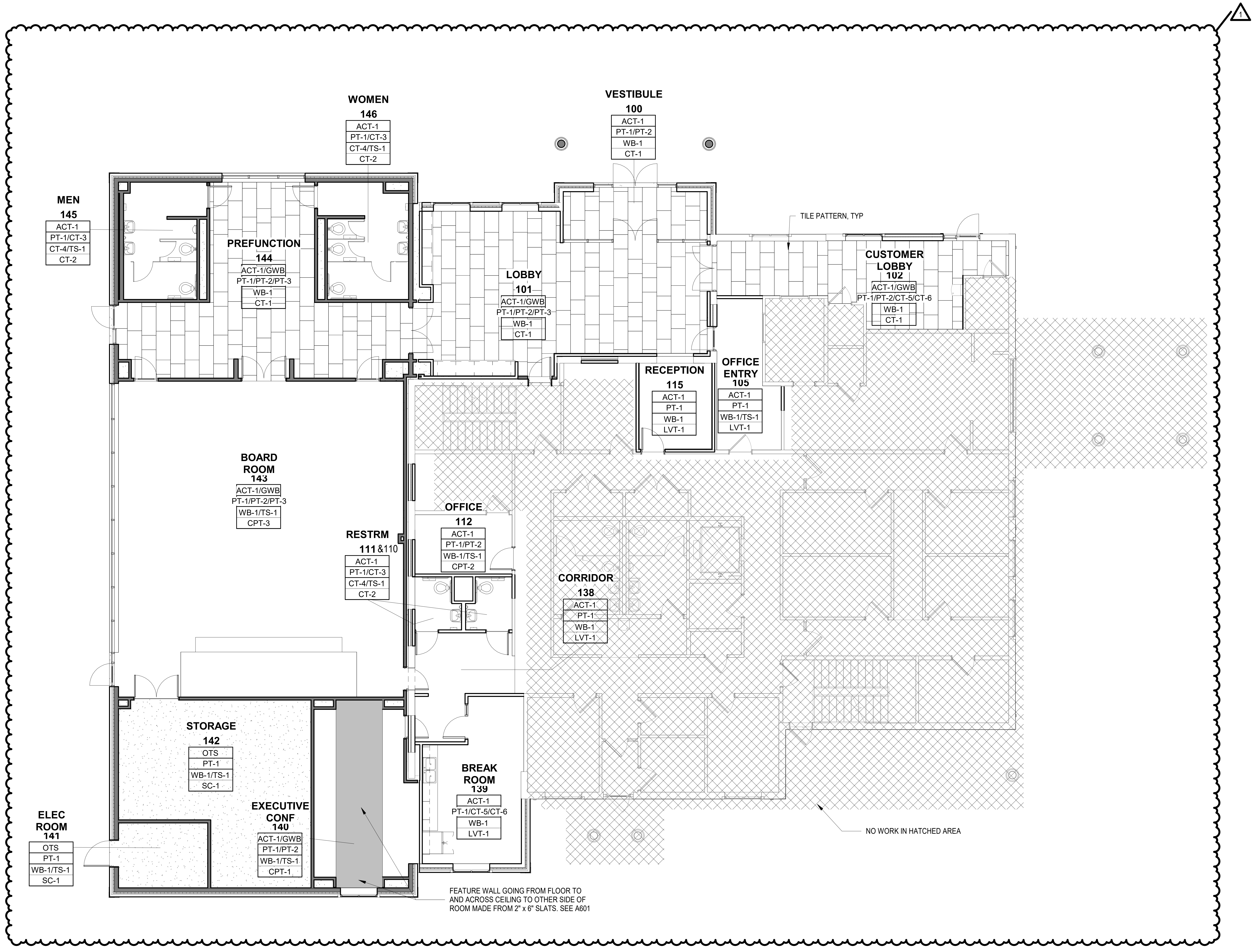


ALPHA BLDG SET 09-01-2026

N

1 FIRST FLOOR FINISH PLAN

SCALE: 1/8" = 1'-0"

GENERAL FINISH NOTES:

CONTRACTOR TO SUBMIT (3) SETS OF 8" X 10" SAMPLES TO ARCHITECT FOR APPROVAL, PRIOR TO ORDERING. THIS IS INCLUSIVE OF ALL FINISH SAMPLES.

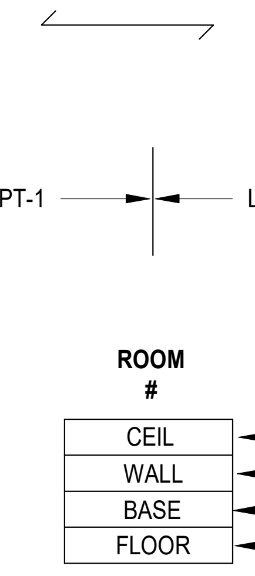
FLOOR FINISH NOTES:

1. VCT FLOORING IS TO BE RUN IN A MONOLITHIC PATTERN.
2. ALL MATERIALS SHALL BE APPLIED IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURERS' RECOMMENDATIONS.
3. PROVIDE VINYL REDUCER STRIPS BETWEEN CARPET AND VINYL FLOORING; STRIPS SHOULD BE CENTERED UNDER DOORS; COLOR TO BE SELECTED BY ARCHITECT.
4. CARPET SEAMING TO BE COORDINATED FOR PROPER MATCHING OF CARPET PATTERNS.
5. CONTRACTOR TO CORRECTLY TREAT ALL SEAM AND EDGES ACCORDING TO MANUFACTURERS RECOMMENDED INSTALLATION METHODS AT ALL CARPET-TO-CARPET TRANSITIONS. CONTRACTOR TO SUBMIT SEAMING DIAGRAM TO ARCHITECT FOR APPROVAL; SEAMING DIAGRAM SUBJECT TO ADJUSTMENT OR CHANGE AS REQUIRED.
6. CONTRACTOR TO COORDINATE ALL DOOR SWINGS WITH FLOOR MATERIAL FOR FREE AND CLEAR SWING.
7. CONTRACTOR TO FLASH PATCH ALL FLOORS AS REQUIRED TO SATISFY ALL ASSEMBLY AND INSTALLATION REQUIREMENTS.
8. CLEAN ALL GLUE FROM VCT FLOORING INSTALLATION AND PROVIDE ONE COAT OF MANUFACTURER'S APPROVED POLISHED WAX FINISH. FLASH PATCH AT ALL TRANSITIONS.
9. CARPET TO TILE TRANSITION STRIP - SCHLUTER EDGE STRIP. TRANSITION STRIP TO MATCH TILE HEIGHT.
10. ALL GROUT TO BE EPOXY BASED (NOT CEMENT BASED) UNLESS OTHERWISE NOTED.
11. ALL VINYL WALL BASE SHALL BE PROVIDED IN CONTINUOUS RUNS.
12. ALL STATIC DISSIPATIVE TILE TO BE CONNECTED TO AN ELECTRICAL GROUND (ie: BUILDING STEEL OR GROUND BUS BAR). GC TO COORDINATE WITH ELECTRICAL CONTRACTOR.

WALL FINISH NOTES:

1. ALL MATERIALS SHALL BE APPLIED IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURERS' RECOMMENDATIONS.
2. ALL FINISHES AT CLOSETS TO MATCH THE ROOM IN WHICH THEY OCCUR.
3. ALL PAINT GRADE CLOSET SHELVES SHALL RECEIVE THREE COATS OF SEMI-GLOSS PAINT TO MATCH THE WALL IN WHICH THEY OCCUR UNLESS OTHERWISE NOTED.
4. ALL EXISTING METAL DOORS AND FRAMES TO BE BRUSHED, SANDED AND FILLED AS REQUIRED FOR A "LIKE NEW" APPEARANCE AND SUBJECT TO ARCHITECT'S APPROVAL IN FIELD. DOORS TO BE PROPERLY PRIMED PRIOR TO RECEIVING FINAL FINISH PAINT GRADE.
5. ALL FIRE EXTINGUISHER CABINETS AND FIRE STANDPIPE CABINETS TO BE PRIMED AND PAINTED IN A SEMI-GLOSS FINISH TO MATCH THE WALL FINISH IN WHICH THEY OCCUR UNLESS OTHERWISE NOTED.
6. CONTRACTOR TO VERIFY EXISTING CONDITION OF PERIMETER WINDOW-SYSTEM SILLS AND BASE MULLIONS AT START OF CONSTRUCTION AND REPAIR TO "LIKE NEW" CONDITION.
7. PATCH AND REPAIR WALL SURFACES AS REQUIRED TO PROVIDE SMOOTH SURFACE READY TO RECEIVE NEW WALLCOVERING.
8. THERE SHALL BE A MINIMUM NUMBER OF (1) PRIMER COAT AND (2) FINISH COATS. MAXIMUM NUMBER OF COATS SHALL BE AS REQUIRED TO OBTAIN UNIFORM COLOR AND SHEEN.
9. PAINT SHALL BE LATEX EGGSHELL/FLAT (SELECT ONE) FINISH AT GYP BD PARTITIONS. SEMI-GLOSS FINISH AT FLOORS, FRAME AND CONVECTORS, AND FLAT FINISH AT CEILINGS, UNLESS OTHERWISE NOTED.

FINISH SYMBOLS LEGEND:



MATERIAL GRAIN DIRECTION

FLOOR FINISH TRANSITION

ROOM FINISH TAG

CEILING FINISH

WALL FINISH

WALL BASE FINISH

FLOOR FINISH

* DENOTES MULTIPLE FINISHES. REFER TO ELEVATION

WF-1 WALL FINISH EXTENTS

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

STATE OF GEORGIA REGISTERED ARCHITECT
MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

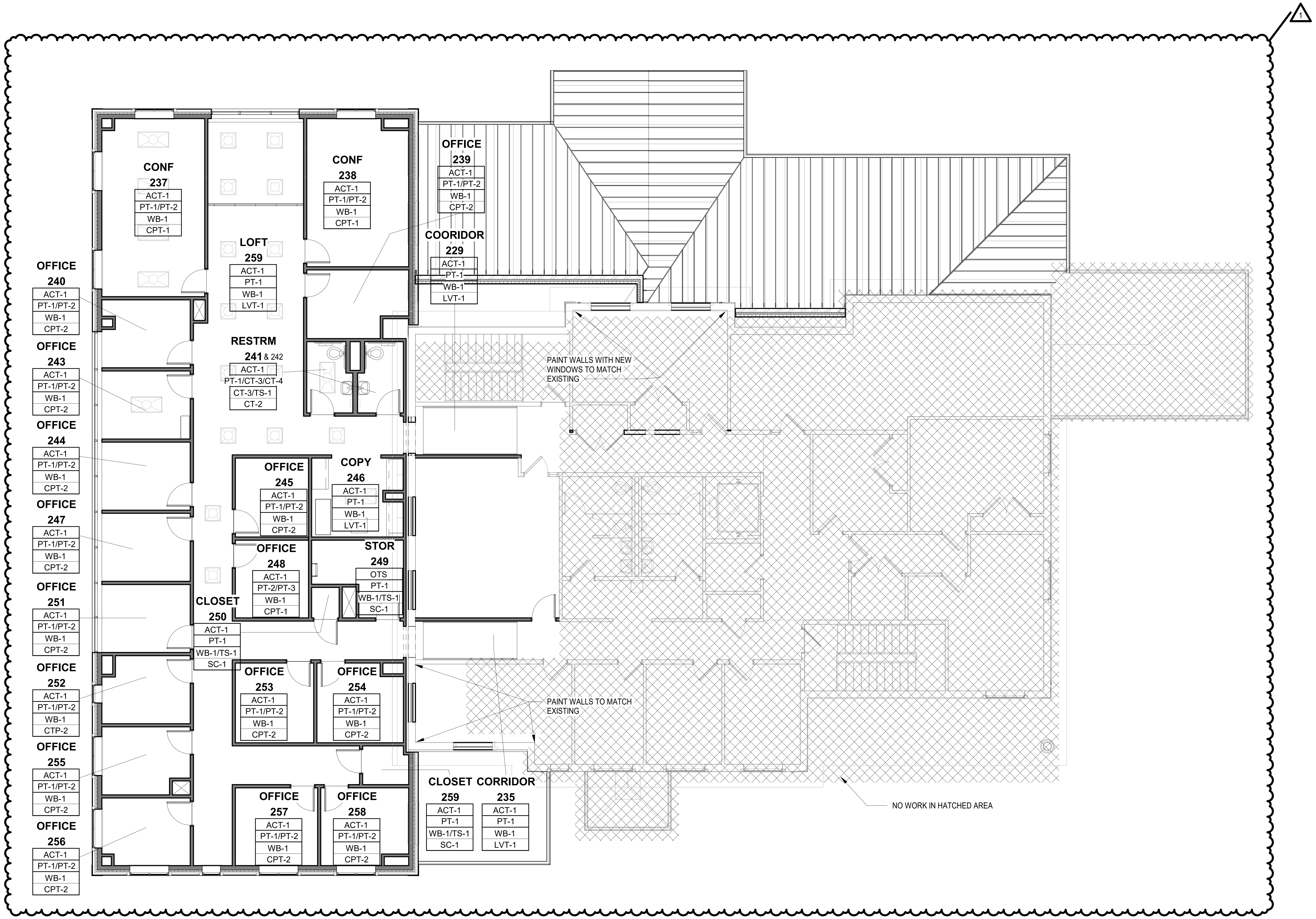
BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

FIRST FLOOR FINISH PLAN

DRAWING NUMBER
A951

Plot Date: 8/19/2026 3:18:36 PM Path: Autodesk Docs://NCWSA Admin Bldg_V25/616202-NCWSA-ARCH_V25(Central).rvt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OFFICE 243: ACT-1, PT-1/PT-2, WB-1, CPT-2
OFFICE 244: ACT-1, PT-1/PT-2, WB-1, CPT-2
OFFICE 247: ACT-1, PT-1/PT-2, WB-1, CPT-2
OFFICE 251: ACT-1, PT-1/PT-2, WB-1, CPT-2
OFFICE 252: ACT-1, PT-1/PT-2, WB-1, CTP-2
OFFICE 255: ACT-1, PT-1/PT-2, WB-1, CPT-2
OFFICE 256: ACT-1, PT-1/PT-2, WB-1, CPT-2
CONF 237: ACT-1, PT-1/PT-2, WB-1, CPT-1
LOFT 259: ACT-1, PT-1, WB-1, LVT-1
CONF 238: ACT-1, PT-1/PT-2, WB-1, CPT-1
OFFICE 239: ACT-1, PT-1/PT-2, WB-1, CPT-2
COORIDOR 229: ACT-1, PT-1, WB-1, LVT-1
RESTRM 241 & 242: ACT-1, PT-1/CT-3/CT-4, CT-3/TS-1, CT-2
OFFICE 245: ACT-1, PT-1/PT-2, WB-1, CPT-2
COPY 246: ACT-1, PT-1, WB-1, LVT-1
OFFICE 248: ACT-1, PT-2/PT-3, WB-1, CPT-1
STOR 249: OTS, PT-1, WB-1/TS-1, SC-1
CLOSET 250: ACT-1, PT-1, WB-1/TS-1, SC-1
OFFICE 253: ACT-1, PT-1/PT-2, WB-1, CPT-2
OFFICE 254: ACT-1, PT-1/PT-2, WB-1, CPT-2
OFFICE 257: ACT-1, PT-1/PT-2, WB-1, CPT-2
OFFICE 258: ACT-1, PT-1/PT-2, WB-1, CPT-2
CLOSET 259: ACT-1, PT-1, WB-1/TS-1, SC-1
CORRIDOR 235: ACT-1, PT-1, WB-1, LVT-1
PAINT WALLS WITH NEW WINDOWS TO MATCH EXISTING
PAINT WALLS TO MATCH EXISTING
NO WORK IN HATCHED AREA
1

1 SECOND FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

ALPHA BLDG SET 09-01-2026

GENERAL FINISH NOTES:

CONTRACTOR TO SUBMIT (3) SETS OF 8" X 10" SAMPLES TO ARCHITECT FOR APPROVAL, PRIOR TO ORDERING. THIS IS INCLUSIVE OF ALL FINISH SAMPLES.

FLOOR FINISH NOTES:

1. VCT FLOORING IS TO BE RUN IN A MONOLITHIC PATTERN.
2. ALL MATERIALS SHALL BE APPLIED IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURERS' RECOMMENDATIONS.
3. PROVIDE VINYL REDUCER STRIPS BETWEEN CARPET AND VINYL FLOORING; STRIPS SHOULD BE CENTERED UNDER DOORS; COLOR TO BE SELECTED BY ARCHITECT.
4. CARPET SEAMING TO BE COORDINATED FOR PROPER MATCHING OF CARPET PATTERNS.
5. CONTRACTOR TO CORRECTLY TREAT ALL SEAM AND EDGES ACCORDING TO MANUFACTURERS RECOMMENDED INSTALLATION METHODS AT ALL CARPET-TO-CARPET TRANSITIONS. CONTRACTOR TO SUBMIT SEAMING DIAGRAM TO ARCHITECT FOR APPROVAL; SEAMING DIAGRAM SUBJECT TO ADJUSTMENT OR CHANGE AS REQUIRED.
6. CONTRACTOR TO COORDINATE ALL DOOR SWINGS WITH FLOOR MATERIAL FOR FREE AND CLEAR SWING.
7. CONTRACTOR TO FLASH PATCH ALL FLOORS AS REQUIRED TO SATISFY ALL ASSEMBLY AND INSTALLATION REQUIREMENTS.
8. CLEAN ALL GLUE FROM VCT FLOORING INSTALLATION AND PROVIDE ONE COAT OF MANUFACTURER'S APPROVED POLISHED WAX FINISH. FLASH PATCH AT ALL TRANSITIONS.
9. CARPET TO TILE TRANSITION STRIP - SCHLUTER EDGE STRIP. TRANSITION STRIP TO MATCH TILE HEIGHT.
10. ALL GROUT TO BE EPOXY BASED (NOT CEMENT BASED) UNLESS OTHERWISE NOTED.
11. ALL VINYL WALL BASE SHALL BE PROVIDED IN CONTINUOUS RUNS.
12. ALL STATIC DISSIPATIVE TILE TO BE CONNECTED TO AN ELECTRICAL GROUND (ie: BUILDING STEEL OR GROUND BUS BAR). GC TO COORDINATE WITH ELECTRICAL CONTRACTOR.

WALL FINISH NOTES:

1. ALL MATERIALS SHALL BE APPLIED IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURERS' RECOMMENDATIONS.
2. ALL FINISHES AT CLOSETS TO MATCH THE ROOM IN WHICH THEY OCCUR.
3. ALL PAINT GRADE CLOSET SHELVES SHALL RECEIVE THREE COATS OF SEMI-GLOSS PAINT TO MATCH THE WALL IN WHICH THEY OCCUR UNLESS OTHERWISE NOTED.
4. ALL EXISTING METAL DOORS AND FRAMES TO BE BRUSHED, SANDED AND FILLED AS REQUIRED FOR A "LIKE NEW" APPEARANCE AND SUBJECT TO ARCHITECT'S APPROVAL IN FIELD. DOORS TO BE PROPERLY PRIMED PRIOR TO RECEIVING FINAL FINISH PAINT GRADE.
5. ALL FIRE EXTINGUISHER CABINETS AND FIRE STANDPIPE CABINETS TO BE PRIMED AND PAINTED IN A SEMI-GLOSS FINISH TO MATCH THE WALL FINISH IN WHICH THEY OCCUR UNLESS OTHERWISE NOTED.
6. CONTRACTOR TO VERIFY EXISTING CONDITION OF PERIMETER WINDOW-SYSTEM SILLS AND BASE MULLIONS AT START OF CONSTRUCTION AND REPAIR TO "LIKE NEW" CONDITION.
7. PATCH AND REPAIR WALL SURFACES AS REQUIRED TO PROVIDE SMOOTH SURFACE READY TO RECEIVE NEW WALLCOVERING.
8. THERE SHALL BE A MINIMUM NUMBER OF (1) PRIMER COAT AND (2) FINISH COATS. MAXIMUM NUMBER OF COATS SHALL BE AS REQUIRED TO OBTAIN UNIFORM COLOR AND SHEEN.
9. PAINT SHALL BE LATEX EGGSHELL/FLAT (SELECT ONE) FINISH AT GYP BD PARTITIONS. SEMI-GLOSS FINISH AT FLOORS, FRAME AND CONVECTORS, AND FLAT FINISH AT CEILINGS, UNLESS OTHERWISE NOTED.

FINISH SYMBOLS LEGEND:

MATERIAL GRAIN DIRECTION

CPT-1 LVT-1 FLOOR FINISH TRANSITION

ROOM # ROOM FINISH TAG
CEIL — CEILING FINISH
WALL — WALL FINISH
BASE — WALL BASE FINISH
FLOOR — FLOOR FINISH
* DENOTES MULTIPLE FINISHES. REFER TO ELEVATION

WF-1 WALL FINISH EXTENTS

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver
FILENAME

BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

SECOND FLOOR FINISH PLAN

DRAWING NUMBER
A952

Path: Autodesk Docs://NCWSA Admin Bldg_V25/616202-NCWSA-ARCH_V25(Central).rvt
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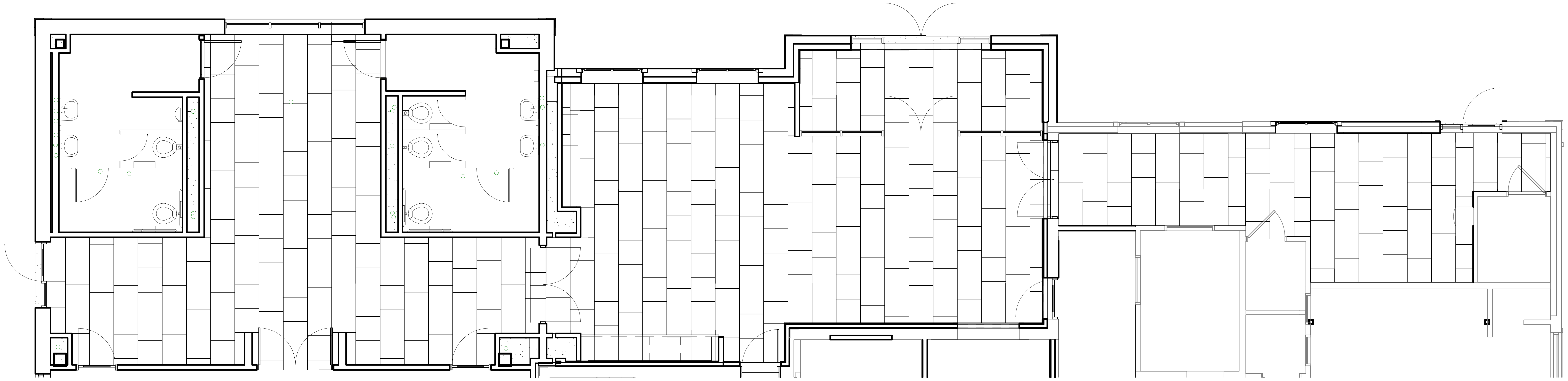
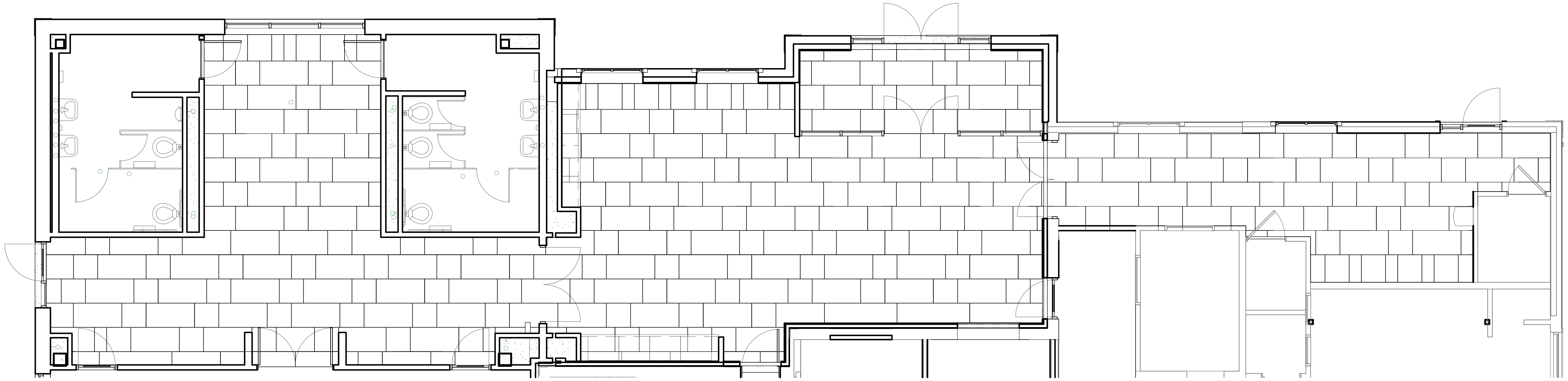


1 TILE ARRANGEMENT PLAN SCHEME A
SCALE: 3/16" = 1'-0"



2 TILE ARRANGEMENT PLAN SCHEME B
SCALE: 3/16" = 1'-0"

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

MACK A. CUNNINGHAM
7/1/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: MW4
DRAWN: LDG
CHECKED: DEK
CHECKED:
APPROVED: Approver

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

ENLARGED LOBBY CERAMIC TILE LAYOUT

DRAWING NUMBER
A953

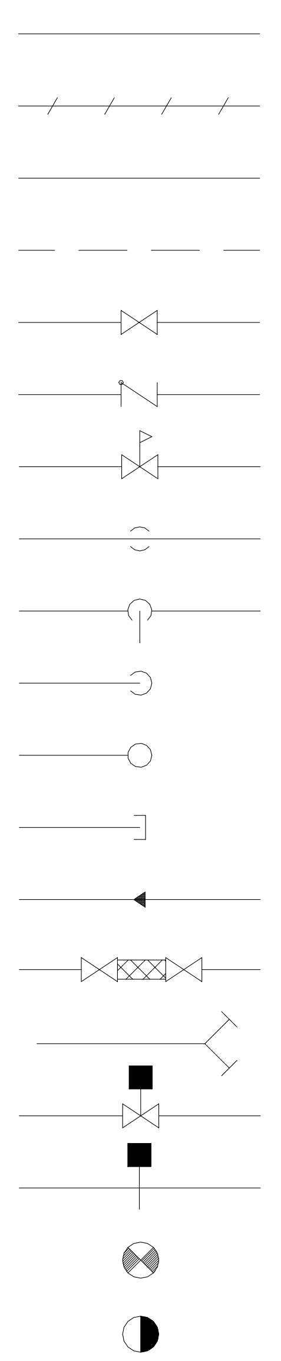
Plot Date: 8/19/2026 3:18:38 PM Path: Autodesk Docs://NCWSA Admin Bldg._V25/616202-NCWSA-ARCH_V25(Central).rvt

ROOM NUMBER	ROOM NAME	HAZARD CLASSIFICATION	SYSTEM TYPE
100	VESTIBULE	LIGHT HAZARD	WET
101	LOBBY	LIGHT HAZARD	WET
110	RESTROOM	LIGHT HAZARD	WET
111	RESTROOM	LIGHT HAZARD	WET
112	OFFICE	LIGHT HAZARD	WET
113	SERVER ROOM	ORDINARY HAZARD GROUP 1	WET
140	EXECUTIVE CONFERENCE	LIGHT HAZARD	WET
141	ELEC ROOM	ORDINARY HAZARD GROUP 1	WET
142	STORAGE	ORDINARY HAZARD GROUP 1	WET
143	BOARD ROOM	LIGHT HAZARD	WET
144	PREFUNCTION SPACE	LIGHT HAZARD	WET
145	MENS RESTROOM	LIGHT HAZARD	WET
146	WOMENS RESTROOM	LIGHT HAZARD	WET
222	OFFICE	LIGHT HAZARD	WET
237	CONFERENCE	LIGHT HAZARD	WET
238	CONFERENCE	LIGHT HAZARD	WET
239	OFFICE	LIGHT HAZARD	WET
240	OFFICE	LIGHT HAZARD	WET
241	RESTROOM	LIGHT HAZARD	WET
242	RESTROOM	LIGHT HAZARD	WET
243	OFFICE	LIGHT HAZARD	WET
244	OFFICE	LIGHT HAZARD	WET
245	OFFICE	LIGHT HAZARD	WET
246	COPY	LIGHT HAZARD	WET
247	OFFICE	LIGHT HAZARD	WET
248	OFFICE	LIGHT HAZARD	WET
249	STORAGE	ORDINARY HAZARD GROUP 1	WET
250	CLOSET	ORDINARY HAZARD GROUP 1	WET
251	OFFICE	LIGHT HAZARD	WET
252	OFFICE	LIGHT HAZARD	WET
253	OFFICE	LIGHT HAZARD	WET
254	OFFICE	LIGHT HAZARD	WET
255	OFFICE	LIGHT HAZARD	WET
256	OFFICE	LIGHT HAZARD	WET
257	OFFICE	LIGHT HAZARD	WET
258	OFFICE	LIGHT HAZARD	WET
259	LOFT	LIGHT HAZARD	WET
260	CORRIDOR	LIGHT HAZARD	WET
261	CORRIDOR	LIGHT HAZARD	WET
262	CORRIDOR	LIGHT HAZARD	WET
263	CORRIDOR	LIGHT HAZARD	WET

FIRE PROTECTION ABBREVIATIONS

AC	AIR COMPRESSOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DPV	DRY PIPE VALVE
EC	ELECTRICAL CONTRACTOR
FACP	FIRE ALARM CONTROL PANEL
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FP	FIRE PUMP
FPC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
MC	MECHANICAL CONTRACTOR
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW

FIRE PROTECTION SYMBOLS



FIRE PROTECTION PIPING (ABOVE GRADE)
FIRE PROTECTION PIPING (BELOW GRADE)
EXISTING FIRE PROTECTION PIPING
FIRE PROTECTION DEMOLITION PIPING
SHUT-OFF VALVE (GATE, BALL, ETC.)
CHECK VALVE
PRESSURE REDUCING VALVE
BRANCH CONNECTION - BOTTOM
BRANCH CONNECTION - TOP
ELBOW - TURNED DOWN
ELBOW - TURNED UP
CAP
DIRECTION OF FLOW
BACKFLOW PREVENTER (BFP)
FIRE DEPARTMENT CONNECTION
OS&Y VALVE
FLOW SWITCH
POINT OF CONNECTION
POINT OF DISCONNECTION

GENERAL NOTES

1. THIS LEGEND SHEET IS FOR CONTRACTOR REFERENCE ONLY. NOT ALL SYMBOLS AND/OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/OR EXCLUSION OF ANY PARTICULAR ITEM FROM THE PROJECT.
2. THE PLANS ARE DIAGRAMMATIC AND INDICATE ONLY THE SIZE AND GENERAL ARRANGEMENT OF PIPING AND EQUIPMENT. EXACT LOCATION OF ALL ELEMENTS SHALL BE DETERMINED AS WORK PROGRESSES, IN COOPERATION AND COORDINATION WITH THE WORK OF ALL OTHER TRADES. IT IS NOT INTENDED TO SHOW EVERY ITEM OF WORK OR MINOR PIECE OF EQUIPMENT, BUT THE CONTRACTOR SHALL FURNISH AND INSTALL WITHOUT ADDITIONAL REMUNERATION ANY COMPONENT NECESSARY TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
3. ITEMS OF WORK OR EQUIPMENT SHOWN ON THE DRAWINGS ONLY, OR CALLED FOR IN THE SPECIFICATIONS ONLY, SHALL BE FURNISHED AND INSTALLED IN THE SAME MANNER AS IF THEY APPEARED ON BOTH THE DRAWINGS AND SPECIFICATIONS.
4. DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATIONS, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES IN PIPING AND LOCATION OF EQUIPMENT, ETC. TO ACCOMMODATE WORK WITH THAT OF OTHER CONTRACTORS.
5. INSTALL EQUIPMENT AND PIPING TO AVOID INTERFERENCE WITH THE OPERATION OR SERVICING AND MAINTENANCE OF EQUIPMENT.
6. ALL COSTS FOR CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS AND FLOORS TO ACCOMMODATE THE INSTALLATION OF FIRE PROTECTION WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNLESS INDICATED OTHERWISE. MATERIALS FOR RESTORATION OF EXISTING SURFACES SHALL MATCH THE EXISTING MATERIALS.
7. PIPES PENETRATING FIRE WALLS AND FLOORS SHALL BE FIRESTOPPED AS SPECIFIED. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE WALL AND FLOOR LOCATIONS.
8. ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND/OR THE EQUIPMENT SCHEDULES. THE CONTRACTOR IS RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT BY USE OF ITEMS BY OTHER MANUFACTURERS. THE ARCHITECT/ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS IF THOSE ITEMS DO NOT MATCH THE PHYSICAL ATTRIBUTES OF THE MANUFACTURERS LISTED.
9. COMPLY WITH THE GEORGIA STATE BUILDING CODES, NFPA 13 AND OTHER APPLICABLE CODES.
10. COORDINATE CONNECTION OF SUPERVISORY SWITCHES, FLOW SWITCHES, AND OTHER SIMILAR DEVICES TO THE FIRE ALARM SYSTEM.
11. FIRE PROTECTION SYSTEM SHALL BE A DELEGATED DESIGN AS DEFINED IN THE SPECIFICATIONS. SYSTEM TO BE HYDRAULICALLY DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA.

CODE REVIEW

PROJECT LOCATION	COVINGTON, GEORGIA
PROJECT DESIGN DATE	03-20-2026
CITY SPECIFIC CODE	NO
COUNTY SPECIFIC CODE	NO
CURRENT STATE BUILDING CODE	2024 IBC WITH GEORGIA AMENDMENTS
EFFECTIVE DATE	
IBC	2024
IECC	2015
IFC	2024
IFGC	2024
IMC	2024
IPC	2024
REFERENCE	-
NFPA 13	2022

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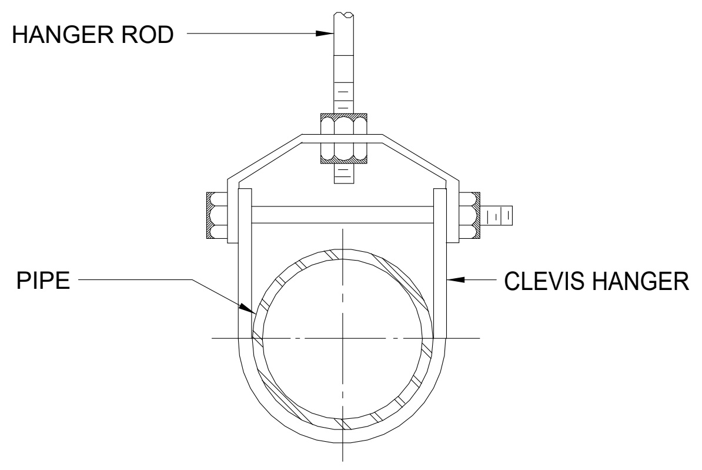
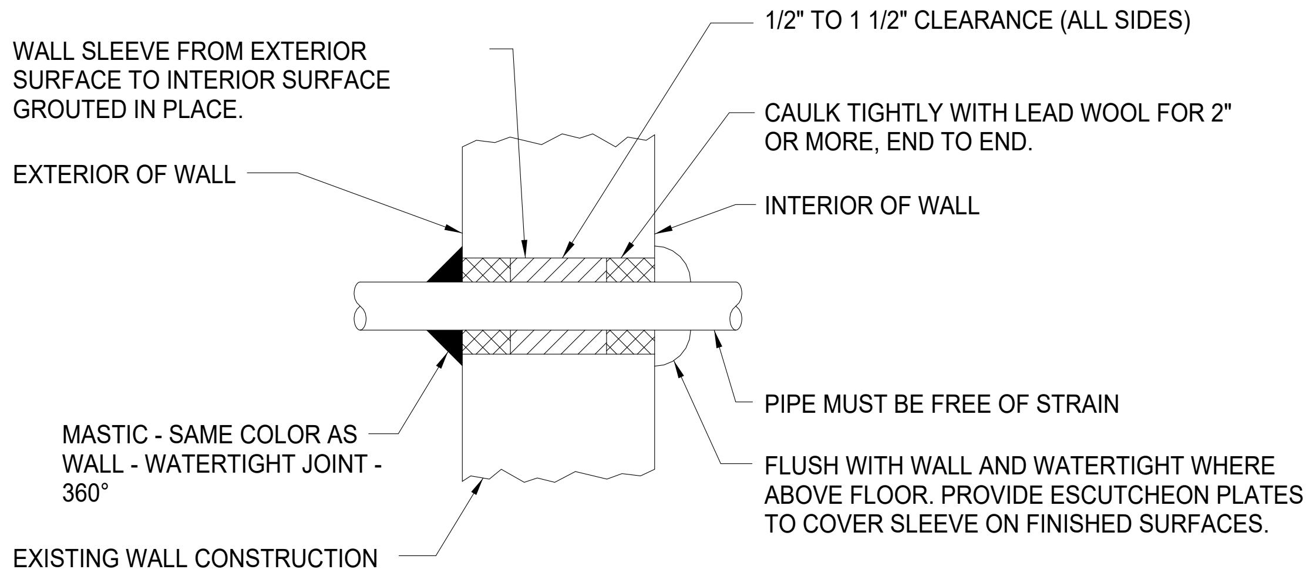
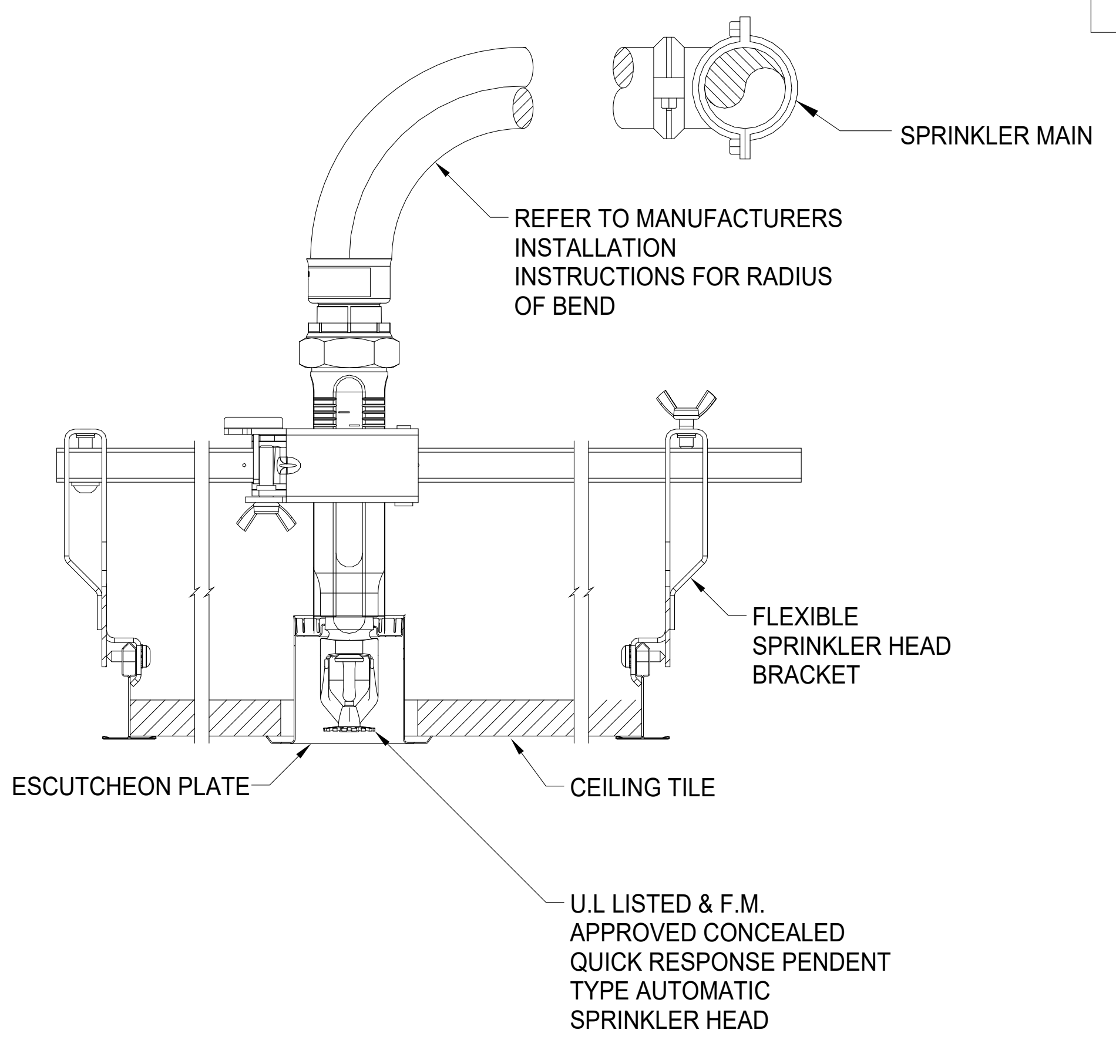


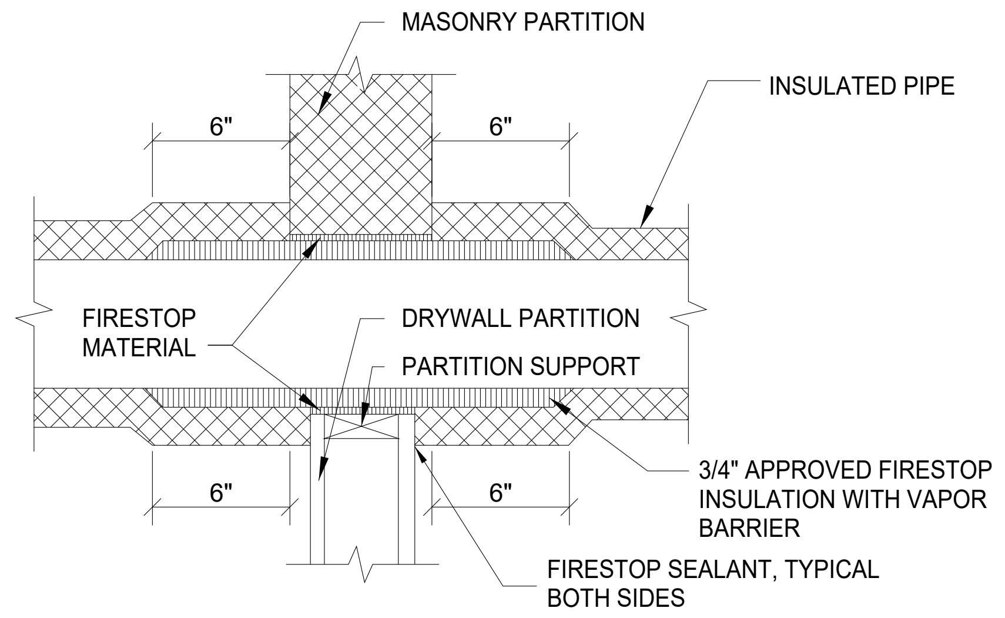
1 TYPICAL PIPE SUPPORT DETAIL
SCALE: NOT TO SCALE


WALL SLEEVE FROM EXTERIOR SURFACE TO INTERIOR SURFACE GROUTED IN PLACE.
EXTERIOR OF WALL
MASTIC - SAME COLOR AS WALL - WATERTIGHT JOINT - 360°
EXISTING WALL CONSTRUCTION
1/2" TO 1 1/2" CLEARANCE (ALL SIDES)
CAULK TIGHTLY WITH LEAD WOOL FOR 2" OR MORE, END TO END.
INTERIOR OF WALL
PIPE MUST BE FREE OF STRAIN
FLUSH WITH WALL AND WATERTIGHT WHERE ABOVE FLOOR. PROVIDE ESCUTCHEON PLATES TO COVER SLEEVE ON FINISHED SURFACES.

2 PIPE SLEEVE THROUGH INTERIOR WALL-ABOVE GRADE
SCALE: NOT TO SCALE


SPRINKLER MAIN
REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR RADIUS OF BEND
FLEXIBLE SPRINKLER HEAD BRACKET
ESCUTCHEON PLATE
CEILING TILE
U.L LISTED & F.M. APPROVED CONCEALED QUICK RESPONSE PENDENT TYPE AUTOMATIC SPRINKLER HEAD

3 CONCEALED PENDENT SPRINKLER & FLEXBILE HOSE DETAIL
SCALE: NOT TO SCALE



PARTITION OR CHASE PENETRATION

4 PIPE PENETRATION OF FIRE WALL
SCALE: NOT TO SCALE

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BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

RAYMOND F JOHNSON, II
7/1/26

CONSTRUCTION DOCUMENTS
7/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: NBN
DRAWN: NBN
CHECKED: RFJ
CHECKED:
APPROVED: RFJ

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

SYMBOLS, NOTES, AND ABBREVIATIONS

DRAWING NUMBER
FP001

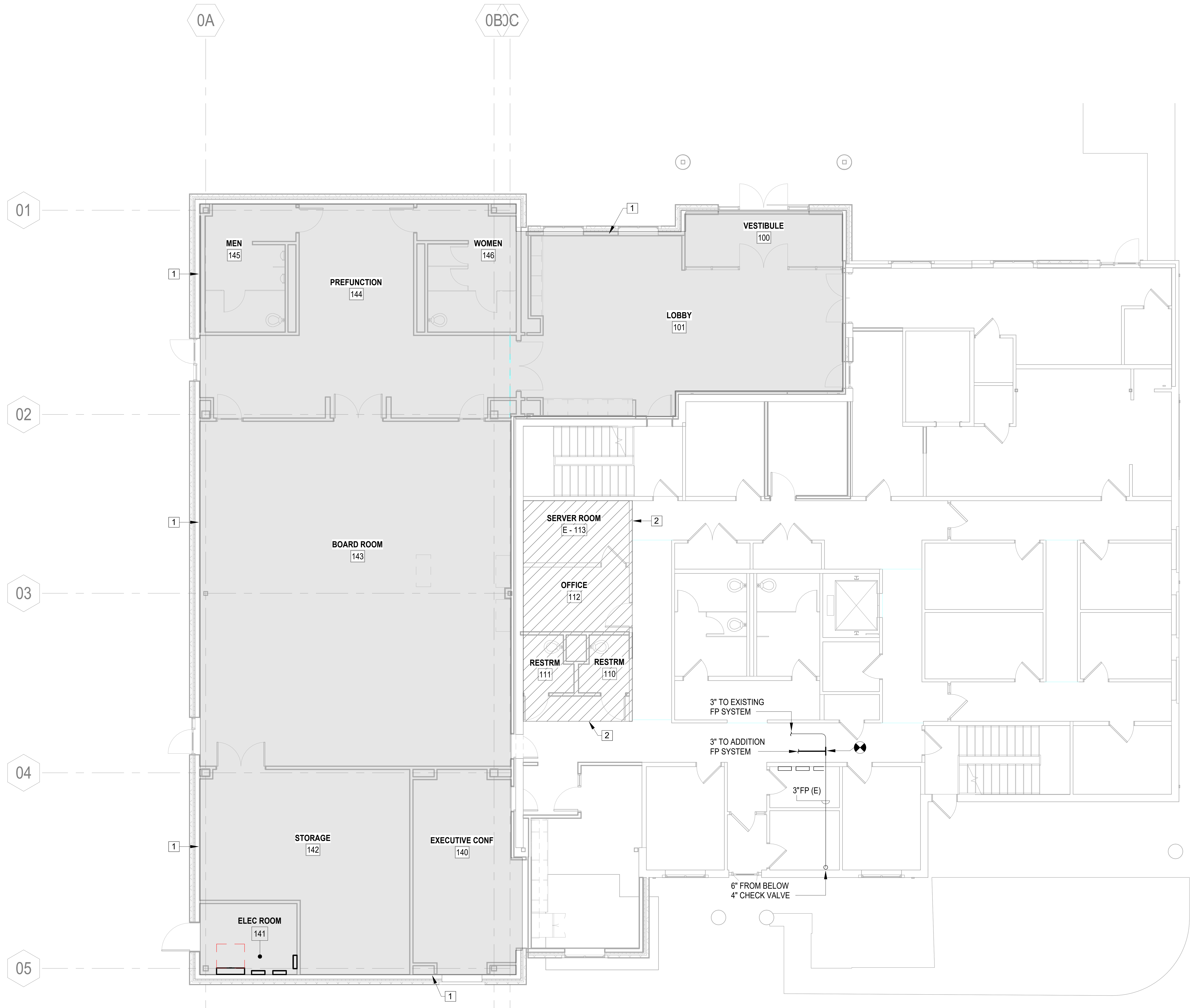
GENERAL NOTES:

A. CONTRACTOR SHALL FIELD VERIFY AND CONFIRM EXISTING PIPING SIZES AND LOCATIONS. NOTIFY ENGINEER OF SIGNIFICANT DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.

B. FIRE PROTECTION WORK IS TO BE A DELEGATED DESIGN. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND INSTALLATION OF A COMPLETE AND OPERABLE NFPA 13 COMPLIANT SPRINKLER SYSTEM WITHIN THE AREA OF WORK SHOWN. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.

CONSTRUCTION NOTES:

1. SHADED AREA OF WORK INDICATES THE AREA OF NEW CONSTRUCTION. THIS AREA SHALL BE PROVIDED WITH A NEW NFPA 13 SPRINKLER SYSTEM THROUGHOUT. EXTEND FIRE PROTECTION PIPING FROM THE EXISTING MAIN IN THE FIRST FLOOR MECHANICAL ROOM.
2. HATCHED AREA OF WORK INDICATES THE AREA THAT HAS CURRENT SPRINKLER PROTECTION THAT WILL NEED TO BE REWORKED TO PROVIDE PROPER COVERAGE FOR NEW ROOM AND CEILING LAYOUT.



FIRST FLOOR FIRE PROTECTION PLAN

① SCALE: 1/8" = 1'-0"

ALPHA BLDG SET 09-01-2026

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

RAYMOND F. JOHNSON, II
7/1/26

CONSTRUCTION DOCUMENTS
7/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: NBN
DRAWN: NBN
CHECKED: RFJ
CHECKED:
APPROVED: RFJ

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

FIRST FLOOR PLAN

DRAWING NUMBER
FP101

Plot Date: 6/26/2026 8:48:03 AM
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GENERAL NOTES:

A. CONTRACTOR SHALL FIELD VERIFY AND CONFIRM EXISTING PIPING SIZES AND LOCATIONS. NOTIFY ENGINEER OF SIGNIFICANT DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.

B. FIRE PROTECTION WORK IS TO BE A DELEGATED DESIGN. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND INSTALLATION OF A COMPLETE AND OPERABLE NFPA 13 COMPLIANT SPRINKLER SYSTEM WITHIN THE AREA OF WORK SHOWN. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.

CONSTRUCTION NOTES:

1. SHADED AREA OF WORK INDICATES THE AREA OF NEW CONSTRUCTION. THIS AREA SHALL BE PROVIDED WITH A NEW NFPA 13 SPRINKLER SYSTEM THROUGHOUT. EXTEND FIRE PROTECTION PIPING FROM THE EXISTING MAIN IN THE FIRST FLOOR MECHANICAL ROOM.
2. HATCHED AREA OF WORK INDICATES THE AREA THAT HAS CURRENT SPRINKLER PROTECTION THAT WILL NEED TO BE REWORKED TO PROVIDE PROPER COVERAGE FOR NEW ROOM AND CEILING LAYOUT.

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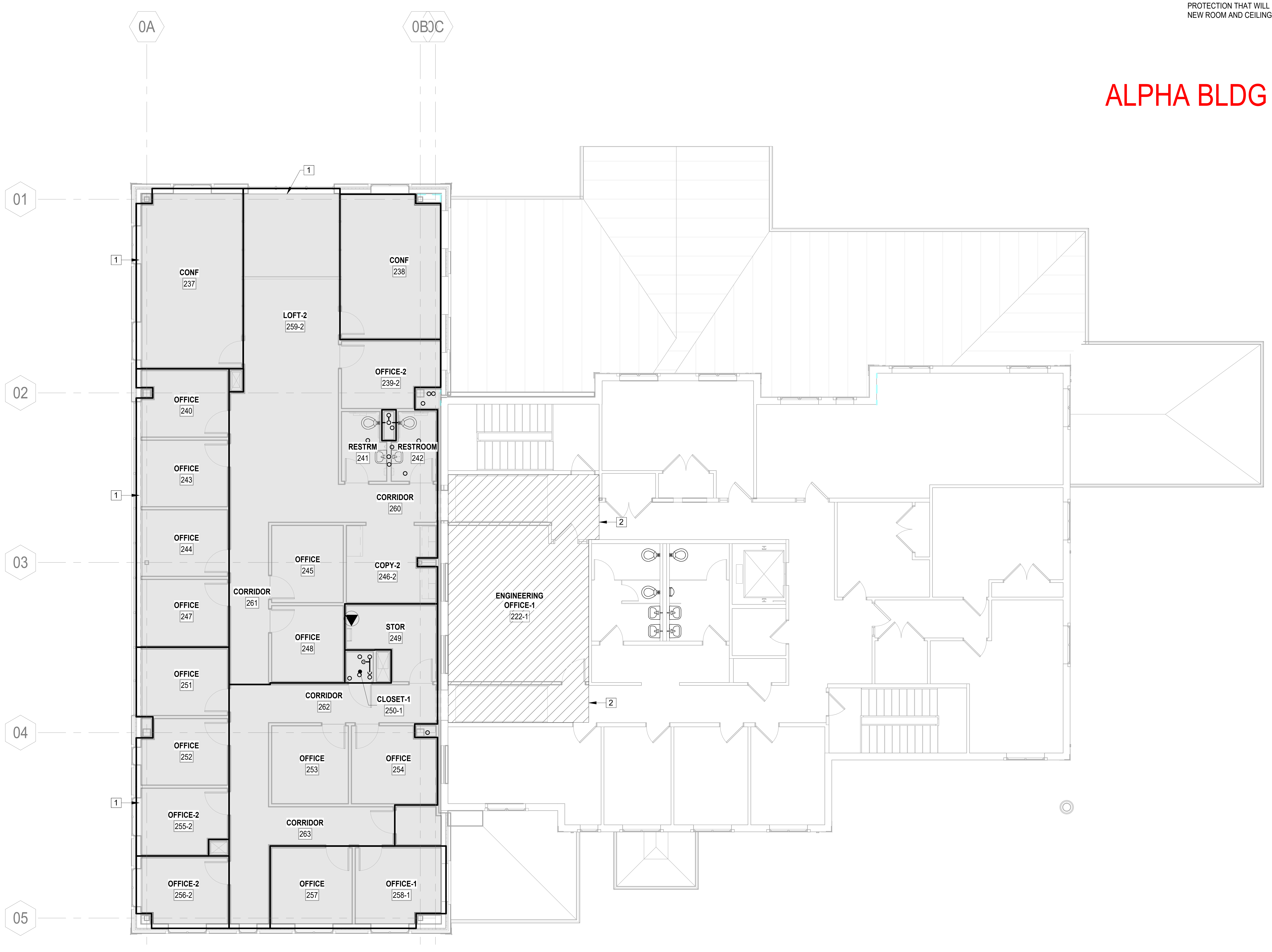

① SECOND FLOOR FIRE PROTECTION PLAN

SCALE: 1/8" = 1'-0"

Plot Date: 6/26/2026 8:48:03 AM

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Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

RAYMOND F. JOHNSON, II
7/1/26

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7/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: NBN
DRAWN: NBN
CHECKED: RFJ
CHECKED:
APPROVED: RFJ

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

SECOND FLOOR PLAN

DRAWING NUMBER
FP102

GENERAL NOTES:

A. CONTRACTOR SHALL FIELD VERIFY AND CONFIRM EXISTING PIPING SIZES AND LOCATIONS. NOTIFY ENGINEER OF SIGNIFICANT DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.

B. FIRE PROTECTION WORK IS TO BE A DELEGATED DESIGN. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND INSTALLATION OF A COMPLETE AND OPERABLE NFPA 13 COMPLIANT SPRINKLER SYSTEM WITHIN THE AREA OF WORK SHOWN. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.

C. COORDINATE ACTUAL ROUTE OF PIPING IN ATTIC WITH FRAMING MEMBERS.

D. DRY SYSTEM AUXILIARY DRAINS SHALL BE PROVIDED AT ALL LOW POINTS OF THE SYSTEM TO CAPTURE CONDENSATION AND ALLOW FOR DRAINING OF TRAPPED SECTIONS OF WATER. NO POINT OF THE DRY SYSTEM SHALL TRAP ANY AMOUNT OF WATER.

CONSTRUCTION NOTES:

1. SHADED AREA OF WORK INDICATES THE ATTIC SPACE IN THE EXISTING BUILDING THAT IS TO BE PROVIDED WITH A DRY PIPE SPRINKLER SYSTEM. NEW LAYOUT IS TO PROVIDE COMPLETE PROTECTION OF THE EXISTING COMBUSTIBLE ATTIC SPACE. EXISTING DRY PIPE SPRINKLER SYSTEM SERVING THE SECOND FLOOR IS TO BE EXTENDED TO COVER ATTIC.

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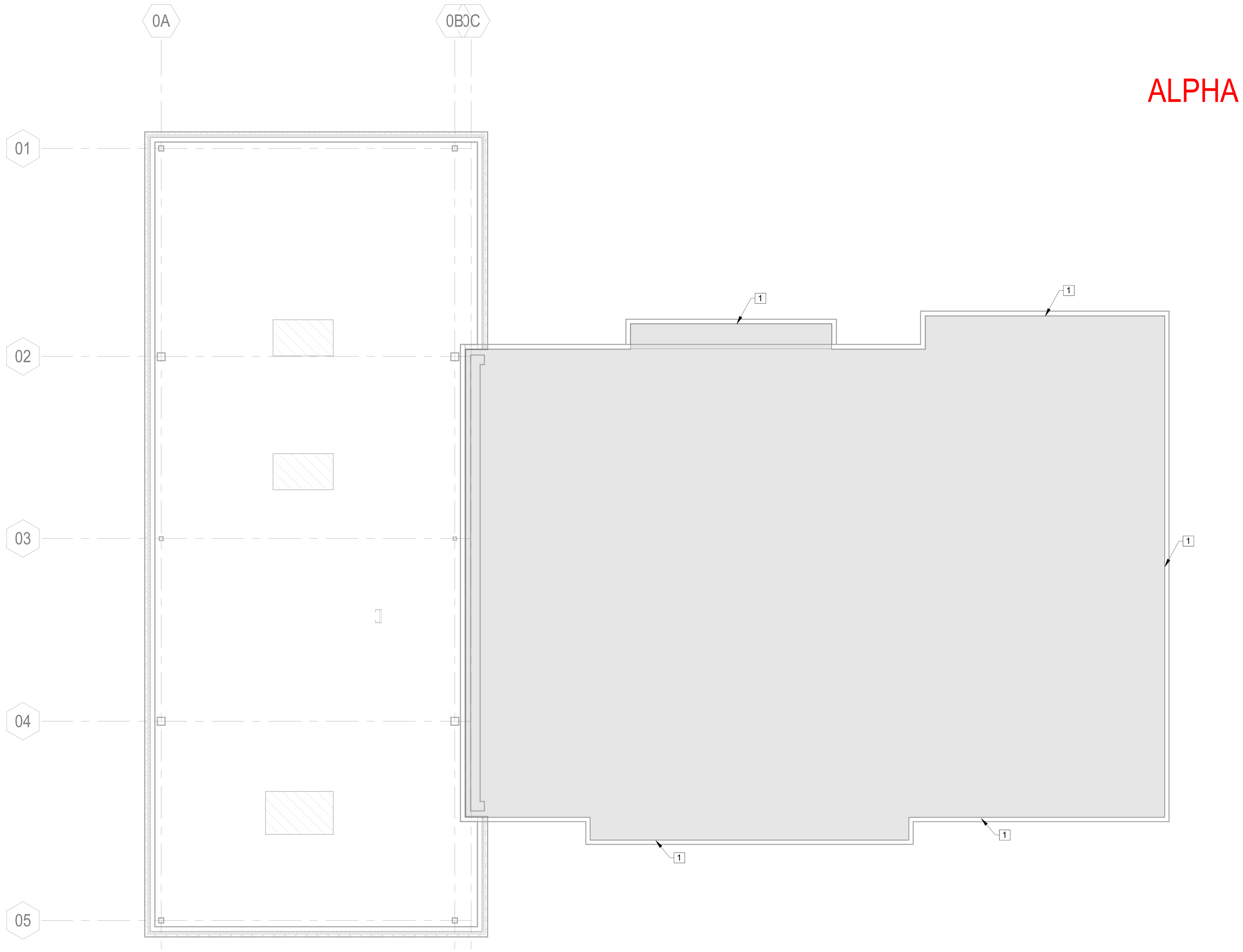

1 ATTIC FIRE PROTECTION PLAN

SCALE: 1/8" = 1'-0"

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BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

RAYMOND F. JOHNSON, II
7/1/26

CONSTRUCTION DOCUMENTS
7/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

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DESIGNED: NBN
DRAWN: NBN
CHECKED: RFJ
CHECKED:
APPROVED: RFJ

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

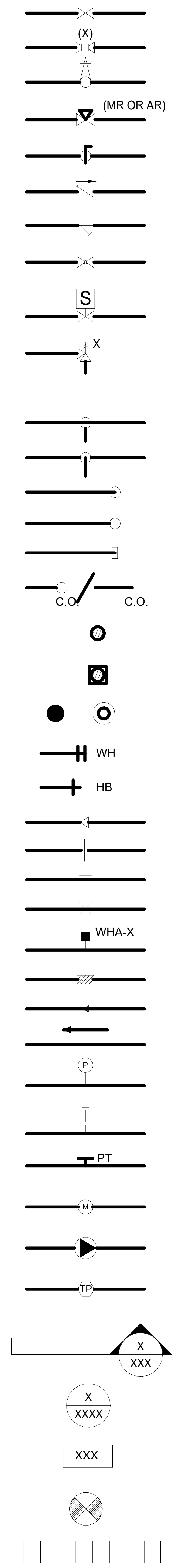
ATTIC PLAN

DRAWING NUMBER
FP103

PLUMBING ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
AC	AIR COMPRESSOR
AD	ACESS DOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AR	APPLIANCE REGULATOR
BFP	BACKFLOW PREVENTER
BT	BATHTUB
BTU	BRITISH THERMAL UNIT
BV	BALANCING VALVE
CA	COMPRESSED AIR
CB	CATCH BASIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CO	CLEANOUT
CW	COLD WATER
CWFU	COLD WATER FIXTURE UNIT
CWP	CIRCULATING WATER PUMP
D	DRAIN LINE
DB	DRAIN BOX
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DIP	DUCTILE IRON PIPE
DIW	DEIONIZED WATER
DN	DOWN
DS	DOWNSPOUT
DSN	DOWN SPOUT NOZZLE
DWH	DOMESTIC WATER HEATER
DWV	DROP TO WASTE/RISE TO VENT
EWC	ELECTRIC WATER COOLER
EXST	EXISTING
F	FAHRENHEIT DEGREES
FACP	FIRE ALARM CONTROL PANEL
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FFE	FINISHED FLOOR ELEVATION
FHC	FIRE HOSE CABINET
FP	FIRE PROTECTION PIPING
FS	FLOOR SINK
G	GAS
GC	GENERAL CONTRACTOR
GI	GREASE INTERCEPTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HP	HORSEPOWER
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNIT
HWCP	HOT WATER CIRCULATING PUMP
HWR	HOT WATER RECIRCULATION
HWT	HOT WATER TANK
INV EL.	INVERT ELEVATION
KS	KITCHEN SINK
LAV	LAVATORY
LPD	LOW POINT DRAIN
LT	LAUNDRY TUB
M	METER
MC	MECHANICAL CONTRACTOR
MR	MEDIUM PRESSURE REGULATOR
MS	MOP SINK
MV	MIXING VALVE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OI	OIL INTERCEPTOR
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PET	PLUMBING EXPANSION TANK
PRV	PRESSURE REDUCING VALVE
PVC	POLYVINYL CHLORIDE
RD	ROOF DRAIN
RV	RELIEF VENT
RWL	RAIN WATER LEADER
SAN	SANITARY SEWER
SCW	SOFTENED COLD WATER
SE	SEWAGE EJECTOR
SF	SQUARE FOOT
SHR	SHOWER
SK	SINK
SMP	SUMP PUMP
SS	SERVICE SINK
ST	STORM SEWER
ST (OVERFLOW)	STORM SEWER EMERGENCY OVERFLOW
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TW	TEMPERED WATER
TD	TRENCH DRAIN
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
W.C.	WATER COLUMN
WCO	WALL CLEANOUT
WG	WATER GAUGE
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WV	WET VENT

PLUMBING SYMBOLS - VALVES AND SPECIALTIES



SHUT-OFF VALVE (GATE, BALL, ETC.)
BALANCING VALVE (X INDICATES GPM)
SHUT-OFF VALVE IN RISER
GAS PRESSURE REULATOR (MEDIUM PRESSURE OR APPLIANCE REGULATOR)
GAS COCK
CHECK VALVE
STRAINER
GLOBE VALVE
SOLENOID VALVE
RELIEF VALVE (X INDICATES P - PRESSURE
T - TEMPERATURE
PT - COMBINATION PRESS/TEMP)
BRANCH CONNECTION - BOTTOM
BRANCH CONNECTION - TOP
ELBOW - TURNED DOWN
ELBOW - TURNED UP
CAP
CLEANOUT (FLOOR/WALL)
FLOOR DRAIN
FLOOR SINK
ROOF DRAIN ABOVE/BELOW DECK
WALL HYDRANT
HOSE BIBB
REDUCER
UNION
PIPE GUIDE (PG)
PIPE ANCHOR (PA)
WATER HAMMER ARRESTOR (X INDICATES PDI SIZE)
FLEXIBLE CONNECTOR
DIRECTION OF FLOW
DIRECTION OF DOWNWARD PITCH
PRESSURE GAUGE
THERMOMETER
PRESSURE/TEMPERATURE TAP
METER
PUMP
TRAP PRIMER VALVE
DRAWING SECTION NUMBER
DRAWING WHERE FOUND
DRAWING DETAIL NUMBER
DRAWING WHERE FOUND
ROOM NUMBER
POINT OF CONNECTION
TRENCH DRAIN

PLUMBING SYMBOLS - PIPING DESIGNATIONS

CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RETURN
NPCW	NON-POTABLE COLD WATER
NPHW	NON-POTABLE HOT WATER
SCW	SOFTENED COLD WATER
SAN	SANITARY SEWER
V	VENT
ST	STORM SEWER
EST	STORM SEWER OVERFLOW DRAIN
CA	COMPRESSED AIR
D	DRAIN
W	WATER MAIN (EXTERIOR)
PD	PUMP DISCHARGE
GAS	NATURAL GAS

GENERAL NOTES

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5. INSTALL EQUIPMENT AND PIPING TO AVOID INTERFERENCE WITH THE OPERATION OR SERVICING AND MAINTENANCE OF EQUIPMENT.
6. PIPES PENETRATING FIRE WALLS AND FLOORS SHALL BE FIRESTOPPED AS SPECIFIED. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE WALL LOCATIONS.
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8. COMPLY WITH 2024 GEORGIA PLUMBING, BUILDING CODES AND ALL OTHER APPLICABLE CODES

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Brown AND Caldwell
BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

RAYMOND F JOHNSON, II
7/1/26

CONSTRUCTION
DOCUMENTS
7/01/2026

NCWSA OFFICE
ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: IBH
DRAWN: IBH
CHECKED: RFJ
CHECKED:
APPROVED: RFJ

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

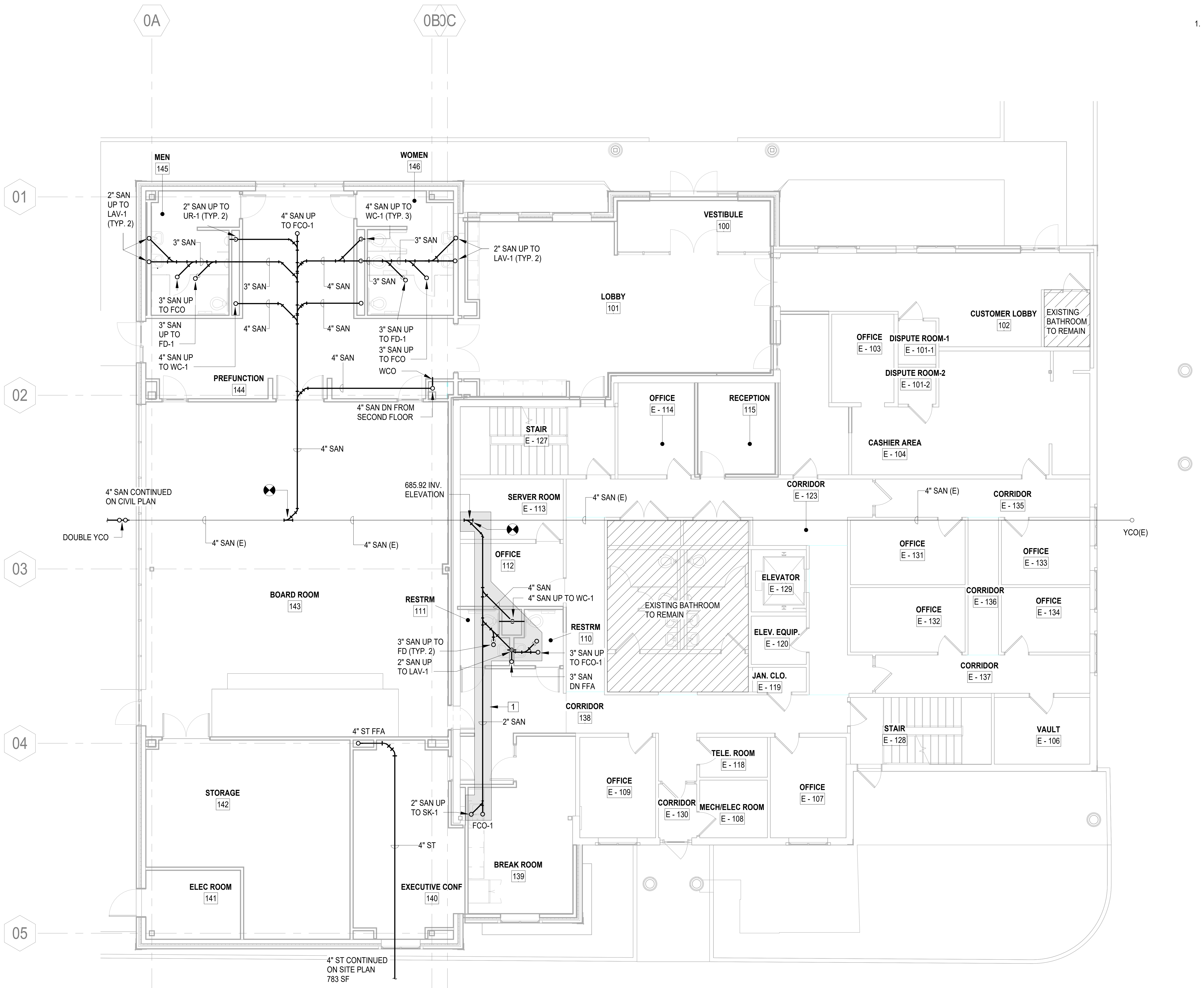
SYMBOLS,
ABBREVIATIONS,
GENERAL NOTES

DRAWING NUMBER
P001

ALPHA BLDG SET 09-01-2026

CONSTRUCTION NOTES:

1. SAW CUT FLOOR AND EXCAVATE AS REQUIRED FOR SANITARY PIPE INSTALLATION



① BELOW GRADE PLAN
SCALE: 1/8" = 1'-0"

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BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

RAYMOND F JOHNSON, II
7/1/26

CONSTRUCTION DOCUMENTS
7/01/2026

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REVISIONS

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CHECKED:
APPROVED: RFJ

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

BELOW GRADE PLAN

DRAWING NUMBER
P101

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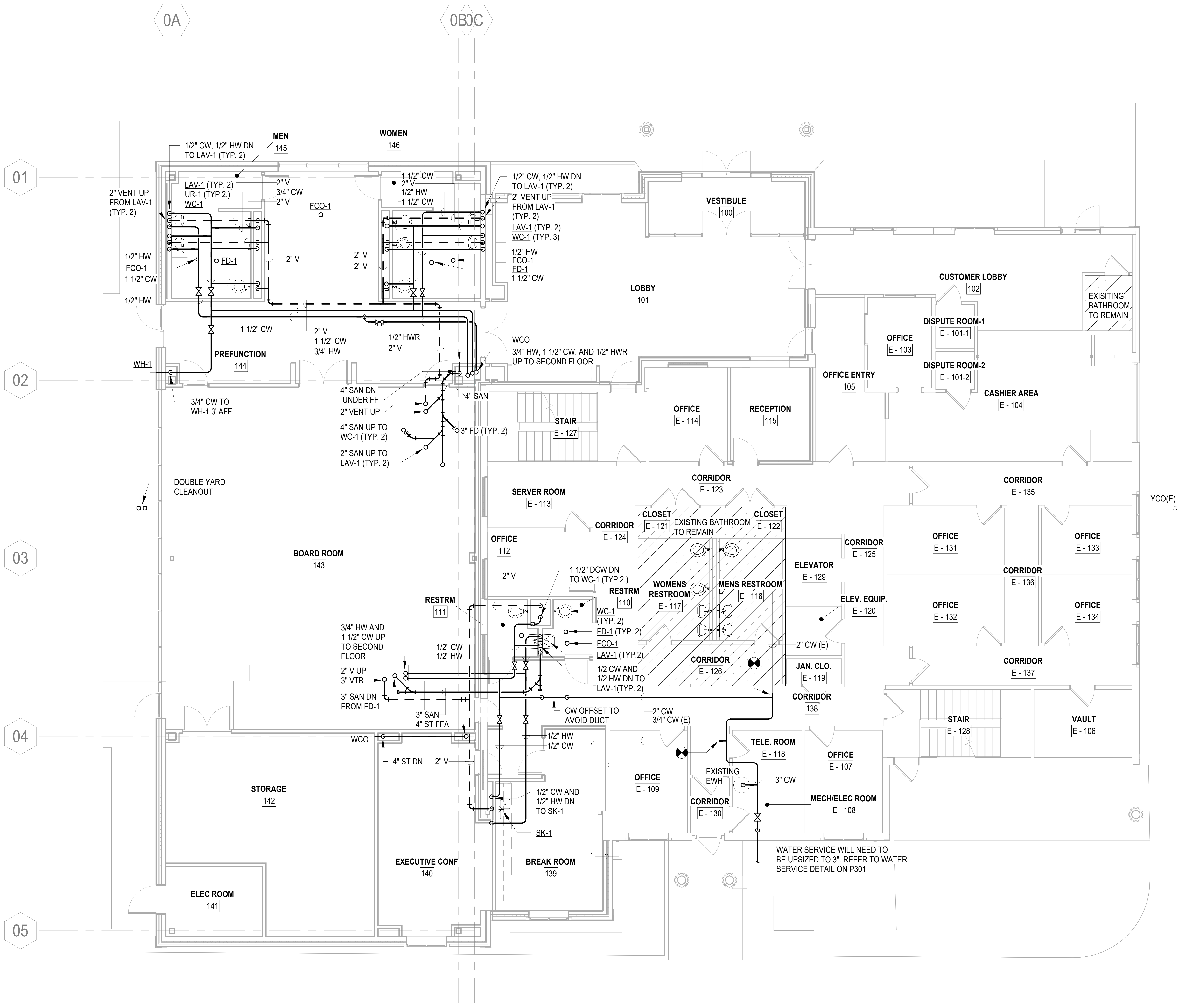

① FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

RAYMOND F. JOHNSON, II

7/1/26

CONSTRUCTION DOCUMENTS
7/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: IBH
DRAWN: IBH
CHECKED: RFJ
CHECKED:
APPROVED: RFJ

FILENAME

BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

FIRST FLOOR PLAN

DRAWING NUMBER
P102

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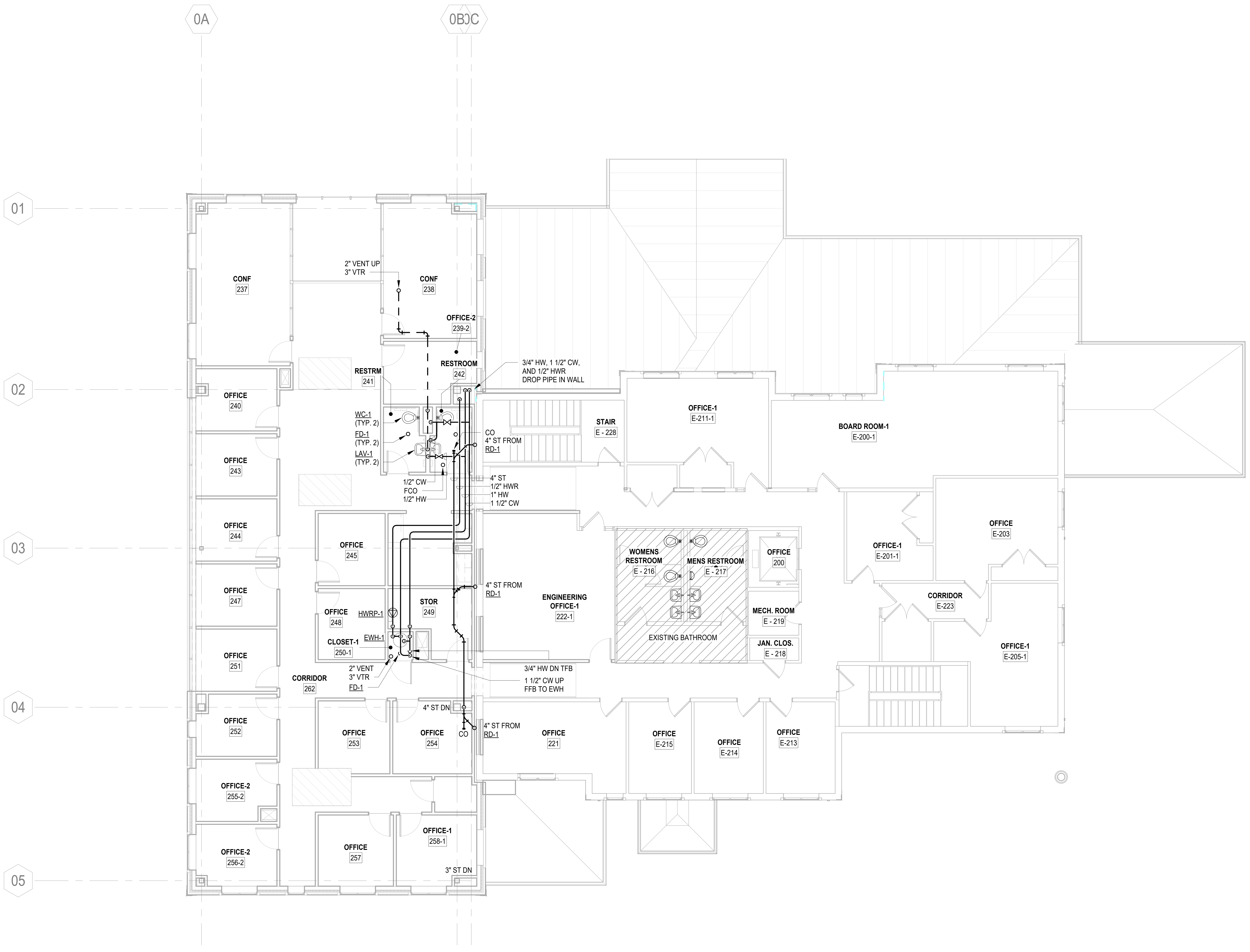

① SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"

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BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

RAYMOND F. JOHNSON II
7/1/26

CONSTRUCTION
DOCUMENTS
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NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: IBH
DRAWN: IBH
CHECKED: RFJ
CHECKED:
APPROVED: RFJ

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

SECOND FLOOR PLAN

DRAWING NUMBER
P103

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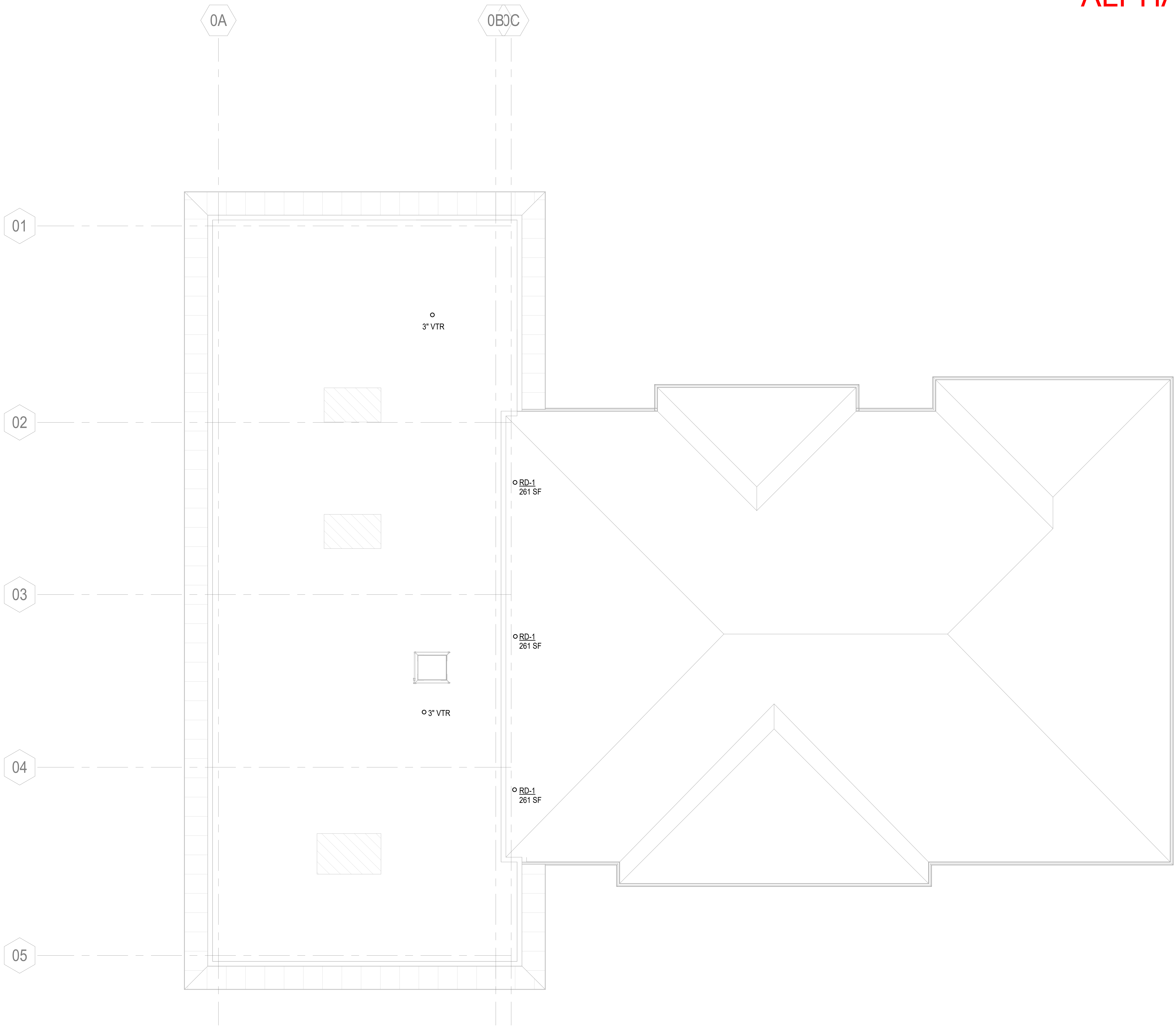

① ROOF PLAN
SCALE: 1/8" = 1'-0"

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

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BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

ROOF PLAN

DRAWING NUMBER
P104

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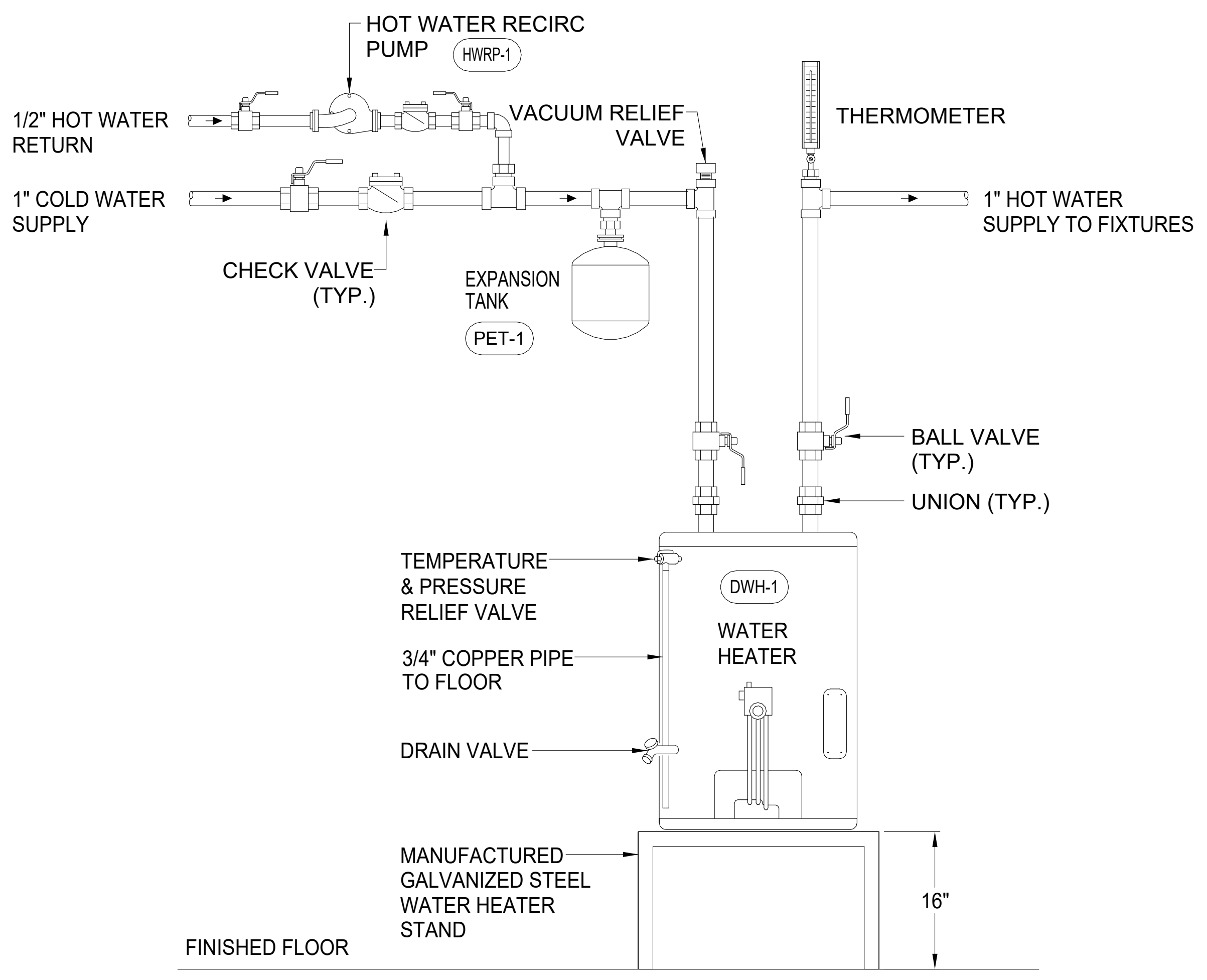
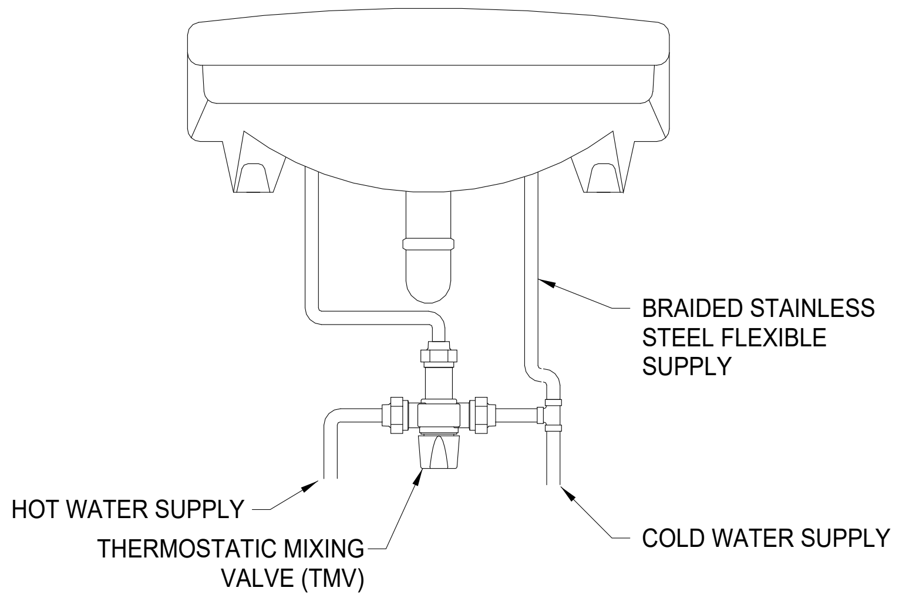


1 ELECTRIC WATER HEATER DETAIL

SCALE: NONE

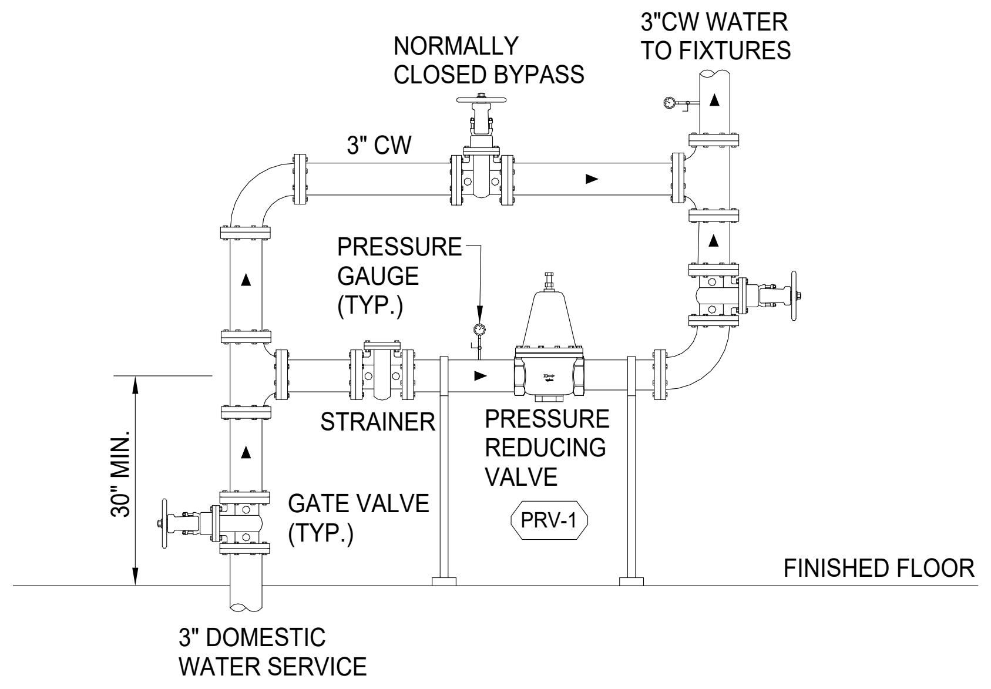

BRAIDED STAINLESS STEEL FLEXIBLE SUPPLY
HOT WATER SUPPLY
THERMOSTATIC MIXING VALVE (TMV)
COLD WATER SUPPLY

NOTES:

1. MOUNT THERMOSTATIC MIXING VALVE AS TIGHT TO UNDERSIDE OF SINK OR LAVATORY AS POSSIBLE TO MAINTAIN ADA CLEARANCE.

2 THERMOSTATIC MIXING VALVE AT HAND SINK DETAIL

SCALE: NONE



NOTE:

1. WATER METER AND BACKFLOW PREVENTOR LOCATED ON SITE.

3 BUILDING WATER SERVICE DETAIL

SCALE: NONE

PLUMBING FIXTURE / SPECIALTY SCHEDULE

FIXTURE NO.	DESCRIPTION	MANUFACTURER & MODEL	PIPING CONNECTIONS				ACCESSORIES	REMARKS
			S/W	VENT	CW	HW		
FCO-1	FLOOR CLEAN OUT W/ HEAVY DUTY ADJUSTABLE ROUND TOP, EPOXY COATED CAST IRON	WATTS CO-260	VARIES	-	-	-	-	SAME SIZE AS PIPE MAXIMUM 4"
FD-1	FLOOR DRAIN, 6"ø NICKEL BRONZE ADJUSTABLE STRAINER	WATTS FD-300-5	3"	-	-	-	PROVIDE TRAP GUARD	-
FD-2	FLOOR DRAIN, 6"ø NICKEL BRONZE ADJUSTABLE STRAINER	WATTS FD-100-A	4"	-	-	-	PROVIDE TRAP GUARD	-
LAV-1	WALL MOUNTED LAVATORY, VITREOUS CHINA, REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS	KOHLER K-2032	2"	1 1/2"	1/2"	1/2"	FAUCET (0.5GPM), 4"TRIM PLATE, TMV, SS STRAINER, SUPPLIES, STOPS, TRAP, AND ESCUTCHEON PLATE, CARRIER	ELECTRONIC FAUCET, SLOAN EAF-100-PLG-CP-0.35GPM-MLM-IR-IQ-FCT PLUG-IN, 120V/6VDC ADAPTER, THERMOSTATIC MIXING VALVE WATTS MODEL LFMMV, 0.5GPM AERATOR, 105°F OUTLET TEMPERATURE
PRV-1	DIRECT ACTING PRESSURE REDUCING VALVE WITH STRAINER	WATTS LFN223BS	3"	-	-	-	-	INLET PRESSURE 140PSI OUTLET PRESSURE 65PSI
RD-1	LACQUERED CAST IRON ROOF DRAIN WITH ANCHOR FLANGE, CAST IRON WATERPROOFING MEMBRANE CLAMP RING WITH INTEGRAL GRAVEL STOP, AND A STANDARD SELF-LOCKING POLYETHYLENE DOME STRAINER	MIFAB R1100	-	-	-	-	-	-
SK-1	STAINLESS STEEL, DOUBLE COMPARTMENT SINK, UNDERMOUNT, TWO 16"X16"X10"DEEP BOWLS	ELKAY ELUH361710DBG	2"	1 1/2"	1/2"	1/2"	FAUCET, SS STRAINERS, SUPPLIES, STOPS, TRAP, TAILPIECE, AND ESCUTCHEON PLATES	FAUCET: ELKAY LKGT1041 SINGLE HOLE FAUCET W/ PULLOUT SPRAY, CHROME FINISH
UR-1	URINAL, WALL MOUNTED, VITREOUS CHINA, 0.125GPF, REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS	KOHLER BARDON K-4904-ET	2"	1 1/2"	3/4"	-	HARD WIRED SENSOR FLUSH VALVE W/ OVERRIDE BUTTON, CARRIER	SENSOR HARD WIRED FLUSH VALVE, SLOAN SLOAN 186 ESS-0.125-DBP-TMO-HW. SLOAN TRANSFORMER 0345154
WC-1	WATER CLOSET, FLUSH VALVE, WALL MOUNTED, VITREOUS CHINA, 1.0 GPF. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS	KOHLER KINGSTON K-4325	4"	2"	1"	-	SENSOR FLUSH VALVE, OPEN FRONT SEAT, CARRIER	SENSOR HARD WIRED FLUSH VALVE, SLOAN 111 ESS-1.28-DFB-OR-HW. SLOAN TRANSFORMER 0345154
WH-1	WALL HYDRANT, ENCASED NON-FREEZE, SATIN NICKEL BOX, HINGED WITH LOCKING COVER, VACCUM BREAKER (ASSE 1052)	PRIER C-634BX1	-	-	3/4"	-	-	ORDER LENGTH AS REQUIRED BASED ON WALL THICKNESS

ELECTRIC WATER HEATER SCHEDULE (EWH)

PLAN DESIGNATION	MANUFACTURER MODEL NO.	TYPE	LOCATION	STORAGE CAPACITY (GAL)	GALLONS/HR @100° F RISE	ELECTRICAL DATA			NOTES
						KW/AMPS	VOLTS/ PHASE	HERTZ	
EWH-1	A O SMITH ENL-30	ELECTRIC TANK	SECOND FLOOR MECH ROOM	30	41	6	208/1∅	60	1

NOTES:

1. PROVIDE THE FOLLOWING STANDARD AND OPTIONAL EQUIPMENT:
   - ASME CONSTRUCTION
   - ASME PRESSURE/TEMPERATURE RELIEF VALVE TEMPERATURE CONTROL
   - JUNCTION BOX WITH TERMINAL BLOCK

HOT WATER RETURN PUMP SCHEDULE (HWRP)

PLAN DESIGNATION	MANUFACTURER MODEL NO.	SERVICE	LOCATION	TOTAL HEAD (FT)	FLOW (GPM)	POWER (HP)	RPM	ELECTRICAL DATA				NOTES
								VOLTS	PHASE	HERTZ	F.L.AMPS	
HWRP-1	BELL & GOSSETT NBF-8S/LW	DOMESTIC WATER	PROCESS BUILDING MECH ROOM	6	2	1/16	2800	115	1	60	0.80	1,2,3

NOTES:

1. BRONZE BODY CONSTRUCTION, NON FERROUS IMPELLER
2. PROVIDE AQUASTAT AND AUTOMATIC TIMER KIT.
3. PROVIDE ELECTRICAL DISCONNECT.
4. NSF COMPLINAT

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09-01-2026

PLUMBING EXPANSION TANK SCHEDULE (PET)

PLAN DESIGNATION	MANUFACTURER MODEL NO.	LOCATION	TANK TYPE	TANK VOLUME (GAL.)	ACCEPTANCE VOLUME (GAL.)	LENGTH (IN.)	DIAMETER (IN.)	INLET (IN.)	FULL WEIGHT (LBS)	NOTES
PET-1	WATTS DETA 5	MECHANICAL ROOM	BLADDER	3.5	2.3	14	10	3/4	22	SEE BELOW

NOTES:

1. ASME RATED CARBON STEEL, NSF COMPLIANT
2. PROVIDE WITH INTEGRATED PRESSURE GAUGE AND BLADDER INTEGRITY MONITOR.

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BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

RAYMOND F. JOHNSON, II
7/1/26

CONSTRUCTION
DOCUMENTS
7/01/2026

NCWSA OFFICE
ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: TIP
DRAWN: TIP
CHECKED: RFJ
CHECKED:
APPROVED: RFJ

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

SCHEDULES AND
DETAILS

DRAWING NUMBER
P301

HVAC ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
AC	AIR COMPRESSOR
ACCU	AIR COOLED CONDENSING UNIT
ACS DR	ACCESS DOOR
ACS PNL	ACCESS PANEL
ACV	AUTOMATIC CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	AIR FLOW STATION
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
AS	AIR SEPARATOR
ASC	ABOVE SUSPENDED CEILING
AVG	AVERAGE
BAV	BALANCING VALVE
BC	BOILER CIRCULATOR
BB-E	BASEBOARD - ELECTRIC
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BFWP	BOILER FEED WATER PUMP
BHP	BRAKE HORSEPOWER
BV	BALL VALVE
CA	COMPRESSED AIR
CA	COMBUSTION AIR
CEB	CONCRETE EQUIPMENT BASE
CFM	CUBIC FEET PER MINUTE
CHKV	CHECK VALVE
CHWP	CHILLED WATER CIRCULATING PUMP
CIR	CAST IRON RADIATOR
COM	COMMON
CRP	CONDENSATE RETURN PUMP
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CUV	CLASSROOM UNIT VENTILATOR
CV	CONTROL VALVE
DB	DRY BULB
DCI	DUCT COVERING INSULATION
DF	DESTRATIFICATION FAN
DLI	DUCT LINING INSULATION
DSS	DUCTLESS SPLIT SYSTEM AIR CONDITIONER
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EDR	EQUIVALENT DIRECT RADIATION
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
F	DEGREES FAHRENHEIT
FBO	FURNISHED BY OTHERS
FCU	FAN COIL UNIT
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FID	FIRE DAMPER
FSD	FIRE/SMOKE DAMPER
FTR	FINNED TUBE RADIATOR
FURN	FURNACE
GC	GENERAL CONTRACTOR
GLV	GLOBE VALVE
GPM	GALLONS PER MINUTE
GTV	GATE VALVE
GVTR	GAS VENT THROUGH ROOF
H	HUMIDIFIER
HC	HEATING COIL
HEX	HEAT EXCHANGER
HP	HORSEPOWER
HRU	HEAT RECOVERY UNIT
HSTAT	HUMIDISTAT
HV	HEATING AND VENTILATING UNIT
HWB	HOT WATER BOILER
HWCP	HOT WATER CIRCULATING PUMP
LAT	LEAVING AIR TEMPERATURE
LRI	LOUVERED ROOF INTAKE
LRV	LOUVERED ROOF VENT
LWT	LEAVING WATER TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAV	MANUAL AIR VENT
MC	MECHANICAL CONTRACTOR
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O	OPEN
OA	OUTSIDE AIR
OC	ON CENTER
OED	OPEN ENDED DUCT
PC	PLUMBING CONTRACTOR
PLV	PLUG VALVE
PRV	PRESSURE REDUCING VALVE
PTAC	PACKAGE TERMINAL AIR CONDITIONER
RA	RETURN AIR
RAF	RETURN AIR FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RLL	REFRIGERANT LIQUID LINE
RSL	REFRIGERANT SUCTION LINE
RTU	ROOF TOP UNIT
RV	ROOF VENT
SA	SUPPLY AIR
SD	SMOKE DAMPER
SF	SUPPLY FAN
SP	STATIC PRESSURE
STN	STRAINER
SUH	SUSPENDED UNIT HEATER
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
UH	UNIT HEATER
UTR	UP THROUGH ROOF
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VIB ISO	VIBRATION ISOLATOR
WB	WET BULB
WC	WATER COLUMN
WCHRU	WATER CHILLER
WIV	WATER INLET VALVE
WPD	WATER PRESSURE DROP

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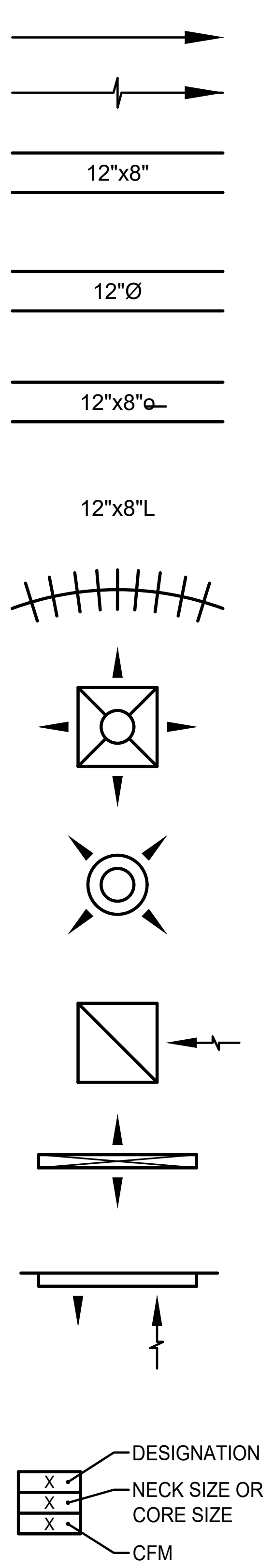
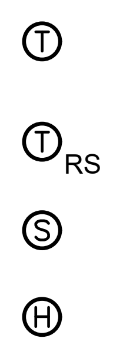
5. INSTALL EQUIPMENT, DUCTWORK, AND PIPING TO AVOID INTERFERENCE WITH THE OPERATION OR SERVICING AND MAINTENANCE OF EQUIPMENT.
6. HVAC CONTRACTOR IS RESPONSIBLE TO PROVIDE ACCESS PANELS AND DOORS WHERE THEY ARE NEEDED TO GAIN ACCESS TO CONCEALED EQUIPMENT.
7. ALL COSTS FOR CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS AND FLOORS TO ACCOMMODATE THE INSTALLATION OF HVAC WORK SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR UNLESS INDICATED OTHERWISE. MATERIALS FOR RESTORATION OF EXISTING SURFACES SHALL MATCH THE EXISTING MATERIALS.
8. PIPES AND/OR DUCTS PENETRATING FIRE WALLS AND FLOORS SHALL BE FIRESTOPPED AS SPECIFIED. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIRE WALL AND FLOOR LOCATIONS.
9. ALL DUCT SIZES SHOWN ON DRAWINGS INDICATE CLEAR INSIDE DIMENSIONS.
10. ALL PHYSICAL ATTRIBUTES OF EQUIPMENT AND DEVICES ARE BASED ON THOSE MANUFACTURERS LISTED IN THE SPECIFICATIONS AND/OR THE EQUIPMENT SCHEDULES. THE RESPECTIVE CONTRACTORS ARE RESPONSIBLE FOR ALL CHANGES BROUGHT ABOUT BY USE OF ITEMS BY OTHER MANUFACTURERS. THE ARCHITECT/ENGINEER HAS RESERVED THE RIGHT TO REJECT ITEMS BY OTHER MANUFACTURERS IF THOSE ITEMS DO NOT MATCH THE PHYSICAL ATTRIBUTES OF THE MANUFACTURERS LISTED.
11. COMPLY WITH THE 2025 GEORGIA STATE BUILDING CODES, ASHRAE 90.1-2016, AND OTHER APPLICABLE CODES.

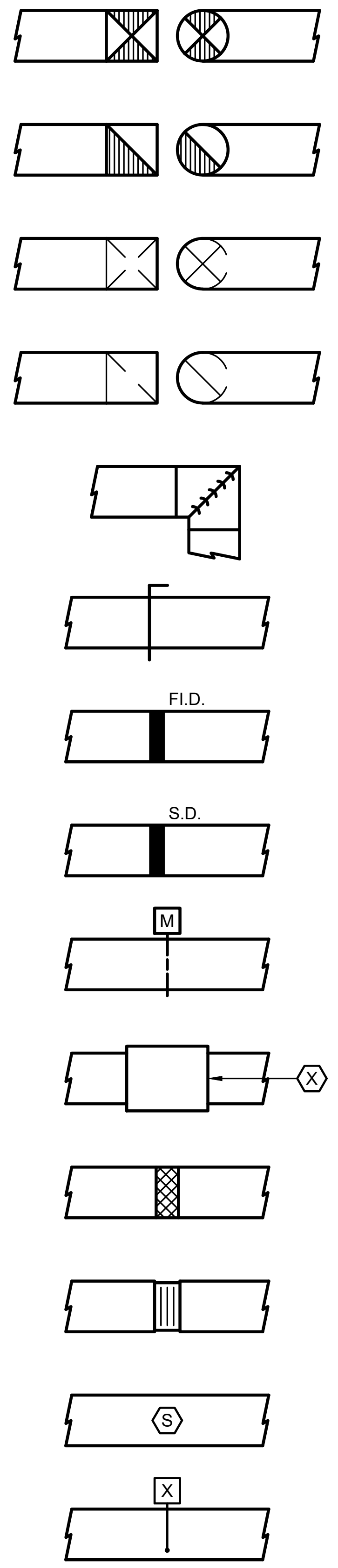
HVAC SYMBOLS - DUCTWORK



AIRFLOW - SUPPLY/OUTDOOR AIR
AIRFLOW - RETURN/EXHAUST AIR
RECTANGULAR DUCTWORK (FIRST NUMBER INDICATES VISIBLE DIMENSION)
ROUND DUCTWORK
FLAT OVAL DUCTWORK
"L" INDICATES LINED DUCTWORK
FLEXIBLE DUCTWORK
RECTANGULAR CEILING DIFFUSER (ARROWS INDICATE DIRECTION OF THROW)
CIRCULAR CEILING DIFFUSER
RETURN/EXHAUST REGISTER OR GRILLE
LINEAR DIFFUSER
SIDEWALL DIFFUSER, REGISTER OR GRILLE
DIFFUSER, REGISTER OR GRILLE DESIGNATION
TYPE X INDICATES:
- CD - CEILING DIFFUSER
- LD - LINEAR DIFFUSER
- RCD - RECTANGULAR CEILING DIFFUSER
- EG - EXHAUST GRILLE
- ER - EXHAUST REGISTER
- RG - RETURN GRILLE
- RR - RETURN REGISTER
- TG - TRANSFER GRILLE)



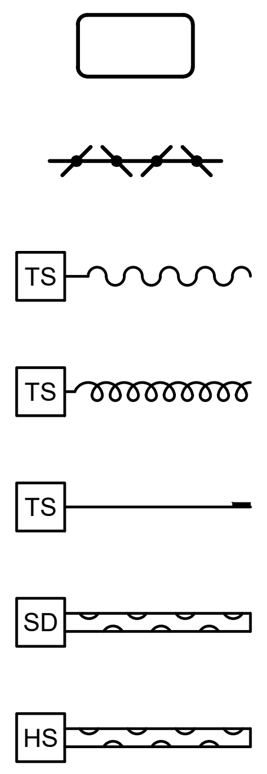
WALL MOUNTED THERMOSTAT
WALL MOUNTED REMOTE SENSOR THERMOSTAT
WALL MOUNTED TEMPERATURE SENSOR
WALL MOUNTED HUMIDISTAT



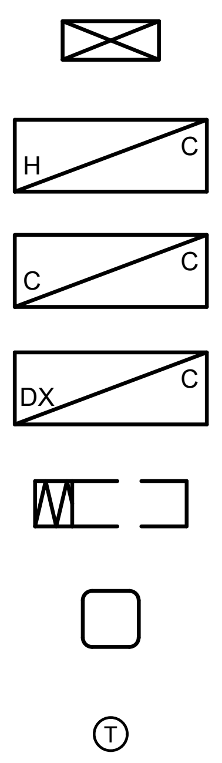
RECTANGULAR/ROUND SUPPLY AIR DUCTWORK UP
RECTANGULAR/ROUND RETURN OR EXHAUST AIR DUCTWORK UP
RECTANGULAR/ROUND SUPPLY AIR DUCTWORK DOWN
RECTANGULAR/ROUND RETURN OR EXHAUST AIR DUCTWORK DOWN
RECTANGULAR ELBOW WITH TURNING VANES
VOLUME DAMPER
FIRE DAMPER
SMOKE DAMPER
MOTOR OPERATED DAMPER
VAV BOX (X INDICATES BOX DESIGNATION)
DUCT MOUNTED COIL
FLEXIBLE DUCT CONNECTION
SMOKE DETECTOR
DUCT MOUNTED SENSOR
X INDICATES:
- SP - STATIC PRESSURE
- T - TEMPERATURE
- H - HUMIDITY
- V - VELOCITY

ALPHA BLDG SET
09-01-2026

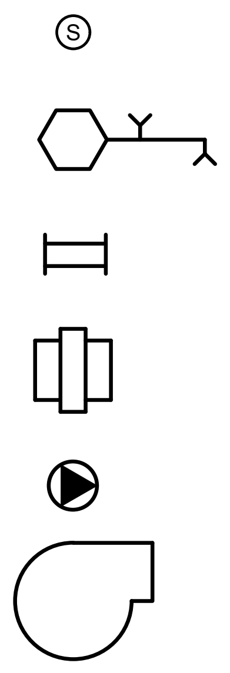
HVAC SYMBOLS - CONTROLS



DAMPER ACTUATOR
OPPOSED BLADE DAMPER
AVERAGING TEMPERATURE SENSOR
FREEZESTAT
PROBE TYPE TEMPERATURE SENSOR
SMOKE DETECTOR
HUMIDITY SENSOR



MOTOR STARTER
HEATING COIL
COOLING COIL
DIRECT EXPANSION REFRIGERANT COIL
FIRE DAMPER
ELEC/PNEU TRANSDUCER
SPACE THERMOSTAT



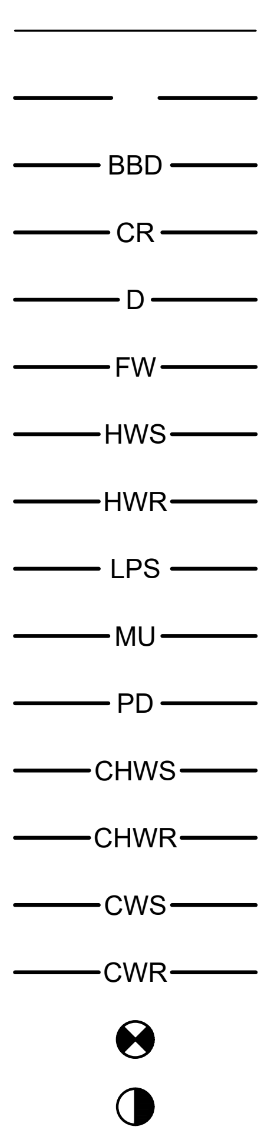
SPACE TEMPERATURE SENSOR
STATIC PRESSURE SENSOR
ROOM DIFFERENTIAL PRESSURE SENSOR
TRANSFORMER
CIRCULATING PUMP
FAN

SHOP/COORDINATION DRAWINGS:

CONTRACTOR SHALL PROVIDE TO THE ENGINEER CAD-GENERATED (AUTOCAD 2013 OR NEWER) COORDINATION DRAWINGS AT 3/8" EQUALS 1 FOOT SCALE.

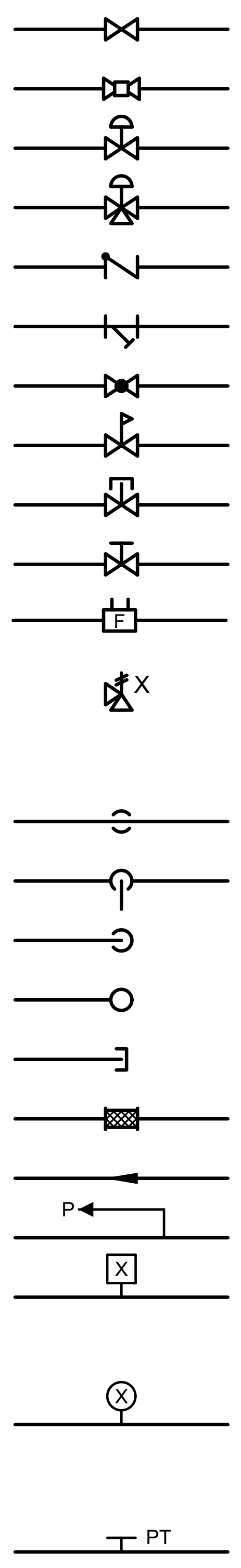
1. CONTRACTOR SHALL BE RESPONSIBLE TO:
   - A. FIELD VERIFY EXISTING CONDITIONS
   - B. PROVIDE LAYOUT OF ALL NEW EQUIPMENT, DUCTWORK (DOUBLE LINED) AND PIPING.
   - C. PROVIDE ELEVATIONS OF ALL DUCTWORK (TOP AND BOTTOM).
   - D. PROVIDE DIMENSIONS OF MAIN PIPE RUNS FROM BUILDING GRID LINES OR WALLS.
   - E. PENETRATIONS THROUGH FIRE-RATED AND OTHER PARTITIONS.
   - F. EQUIPMENT INSTALLATION BASED ON EQUIPMENT PURCHASED FOR PROJECT.

HVAC SYMBOLS - PIPING DESIGNATIONS



EXISTING PIPING (REFER TO DESIGNATIONS BELOW FOR TYPE)
BOILER BLOWDOWN
PIPING TO BE REMOVED (REFER TO DESIGNATIONS BELOW FOR TYPE)
CONDENSATE RETURN
DRAIN
FEEDWATER
HOT WATER SUPPLY
HOT WATER RETURN
LOW PRESSURE STEAM
MAKE-UP WATER
PUMPED DISCHARGE
CHILLED WATER SUPPLY
CHILLED WATER RETURN
CONDENSER WATER SUPPLY
CONDENSER WATER RETURN
POINT OF CONNECTION
POINT OF DISCONNECTION

HVAC SYMBOLS - VALVES & SPECIALTIES



SHUT-OFF VALVE (GATE, BUTTERFLY, BALL, ETC.)
BALANCING VALVE (X INDICATES GPM)
TWO-WAY AUTOMATIC CONTROL VALVE
THREE-WAY AUTOMATIC CONTROL VALVE
CHECK VALVE
STRAINER
GLOBE VALVE
PRESSURE REDUCING VALVE
LOCKING VALVE
TRIPLE DUTY VALVE
FLOW CONTROL VALVE
RELIEF VALVE (X INDICATES
- T - TEMPERATURE
- P - PRESSURE
- PT - COMBINATION PRESS/TEMP)

BRANCH CONNECTION - BOTTOM
BRANCH CONNECTION - TOP
ELBOW - TURNED DOWN
ELBOW - TURNED UP
CAP
FLEXIBLE CONNECTOR
DIRECTION OF FLOW
DIRECTION OF DOWNWARD PITCH
SENSOR/SWITCH (X INDICATES
- P - PRESSURE
- T - TEMPERATURE
- F - FLOW)

GAUGE (X INDICATES
- T - TEMPERATURE
- P - PRESSURE
- F - FLOW)

PRESSURE/TEMPERATURE TAP

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

No. PE038409
RAYMOND F. JOHNSON, II
8/29/26

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	7/1/26	PERMIT SET

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: CJP
DRAWN: CJP
CHECKED: NBN
CHECKED:
APPROVED: RFJ

FILENAME

BC PROJECT NUMBER

CLIENT PROJECT NUMBER

MECHANICAL

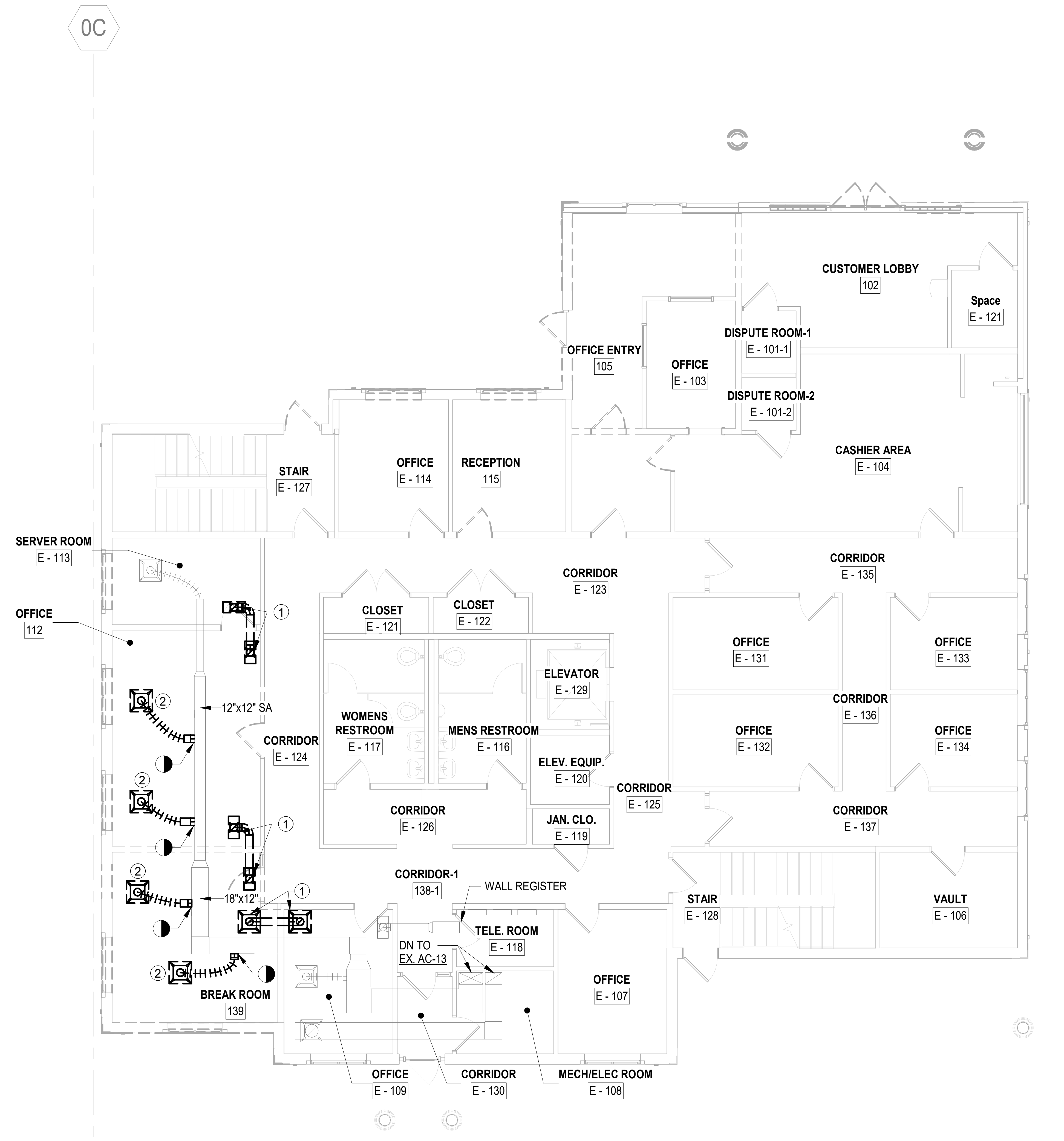
SYMBOLS, NOTES, & ABBREVIATIONS

DRAWING NUMBER
M001

Ⓧ DEMOLITION NOTES:

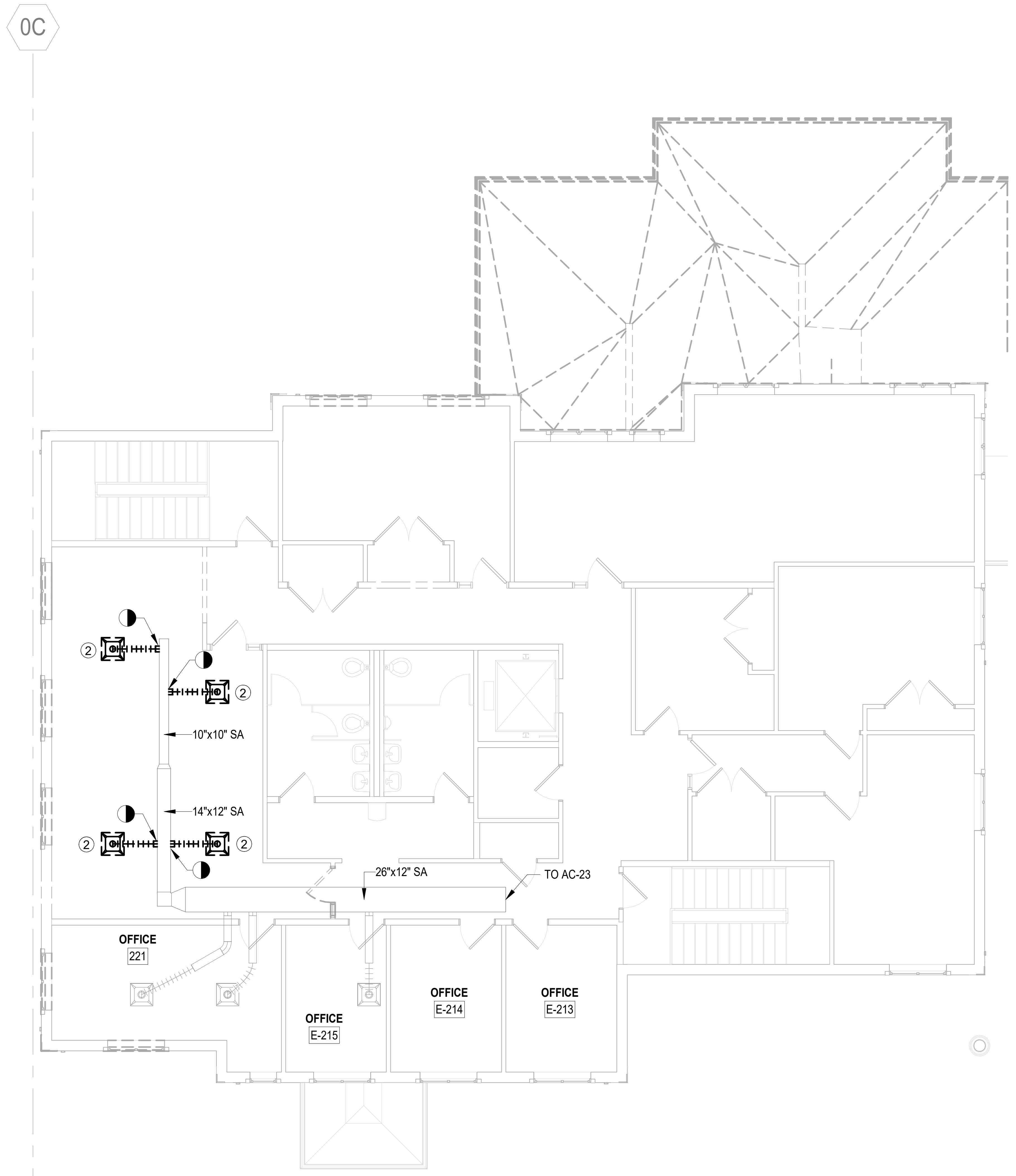
1. REMOVE TRANSFER AIR ASSEMBLY INCLUDING RESISTER AND DUCTWORK IN THEIR ENTIRETY.
2. REMOVE DIFFUSERS, REGISTERS, GRILLS AND ASSOCIATED DUCTWORK IN THEIR ENTIRETY. CAP AND SEAL DUCT AT TAP.

ALPHA BLDG SET 09-01-2026



① FIRST FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



② SECOND FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

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Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

RAYMOND F. JOHNSON, II
No. PE038409

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

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LINE IS 2 INCHES AT FULL SIZE

DESIGNED: CJP
DRAWN: CJP
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APPROVED: RFJ

FILENAME

BC PROJECT NUMBER
Project Number
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FIRST & SECOND FLOOR DEMO PLAN

DRAWING NUMBER
MD101

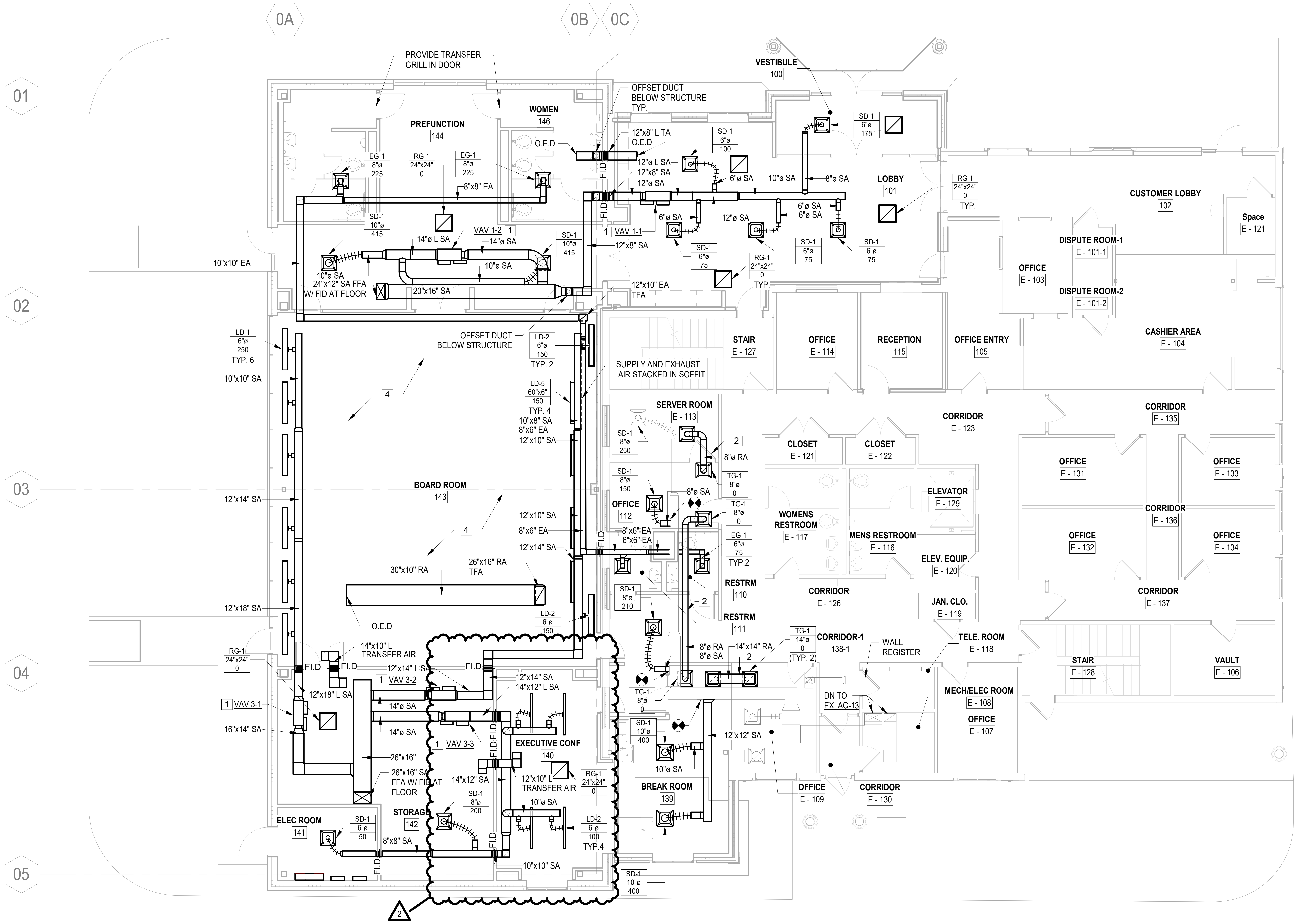
GENERAL NOTES:

A. PROVIDE TURNING VANES AT ALL RECTANGULAR SUPPLY ELBOWS

B. PROVIDE VOLUME DAMPERS AT POINTS ON SUPPLY, RETURN, AND EXHAUST SYSTEMS WHERE BRANCHES EXTEND FROM LARGER DUCTS.

☒ CONSTRUCTION NOTES:

1. PROVIDE VARIABLE AIR VOLUME (VAV) AS SCHEDULED. PROVIDE ALL ASSOCIATED SUPPORTS AND ANCILLARY DEVICES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. REFER TO DRAWING M202 FOR ASSOCIATED DETAIL AND DRAWING M301 FOR SCHEDULED CAPACITY.
2. PROVIDE DUCTWORK AS SHOWN IN ITS ENTIRETY. PROVIDE ALL REQUIRED SUPPORTS, INSULATION, AND ANCILLARY DEVICES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
3. PROVIDE AIR TERMINAL DEVICES AS INDICATED ON PLAN. REFER TO M200 DWGS FOR ASSOCIATED DETAILS AND M300 DWG FOR SCHEDULED CAPACITIES.
4. LIGHTING FIXTURES IN BOARD ROOM 143 SHALL HAVE RETURN AIR CAPABILITY. TOTAL AIR FLOW SHALL EQUAL THE 2400 CFM. REFER TO ELECTRICAL DRAWINGS FOR COORDINATION.



① FIRST FLOOR NEW WORK PLAN

SCALE: 1/8" = 1'-0"

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BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

RAYMOND F. JOHNSON, II
No. PE038409

CONSTRUCTION DOCUMENTS
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NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	7/1/26	PERMIT SET
2	8/18/26	AHJ COMMENTS

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: CJP
DRAWN: CJP
CHECKED: NBN
CHECKED:
APPROVED: RFJ

FILENAME

BC PROJECT NUMBER
Project Number

CLIENT PROJECT NUMBER

FIRST FLOOR NEW WORK PLAN

DRAWING NUMBER
M101

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Plot Date: 8/19/2026 2:26:53 PM

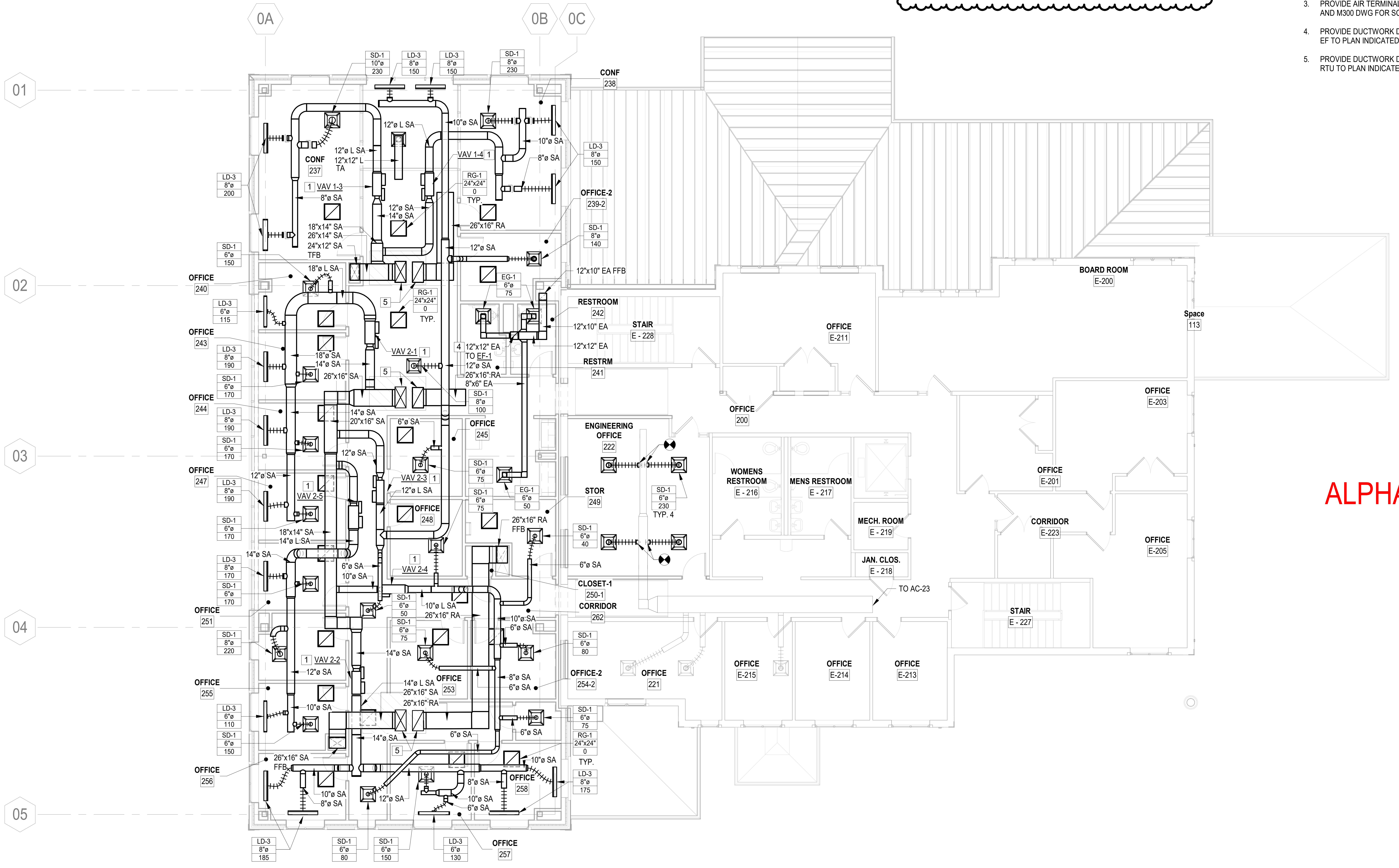
GENERAL NOTES: 2

A. PROVIDE TURNING VANES AT ALL RECTANGULAR SUPPLY ELBOWS

B. PROVIDE VOLUME DAMPERS AT POINTS ON SUPPLY, RETURN, AND EXHAUST SYSTEMS WHERE BRANCHES EXTEND FROM LARGER DUCTS.

☒ CONSTRUCTION NOTES:

1. PROVIDE VARIABLE AIR VOLUME (VAV) AS SCHEDULED. PROVIDE ALL ASSOCIATED SUPPORTS AND ANCILLARY DEVICES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. REFER TO DRAWING M202 FOR ASSOCIATED DETAIL AND DRAWING M301 FOR SCHEDULED CAPACITY.
2. PROVIDE DUCTWORK AS SHOWN IN ITS ENTIRETY. PROVIDE ALL REQUIRED SUPPORTS, INSULATION, AND ANCILLARY DEVICES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
3. PROVIDE AIR TERMINAL DEVICES AS INDICATED ON PLAN. REFER TO M200 DWGS FOR ASSOCIATED DETAILS AND M300 DWG FOR SCHEDULED CAPACITIES
4. PROVIDE DUCTWORK DROP FROM EXHAUST FAN (EF) ABOVE. PROVIDE ALL REQUIRED TRANSITIONS FROM EF TO PLAN INDICATED DIMENSIONS. PROVIDE INSULATED MOTORIZED DAMPER AT THE BUILDING ENVELOPE
5. PROVIDE DUCTWORK DROP FROM ROOF TOP UNIT (RTU) ABOVE. PROVIDE ALL REQUIRED TRANSITIONS FROM RTU TO PLAN INDICATED DIMENSIONS. PROVIDE INSULATED MOTORIZED DAMPER AT THE BUILDING ENVELOPE



1 SECOND FLOOR NEW WORK PLAN

SCALE: 1/8" = 1'-0"

ALPHA BLDG SET 09-01-2026

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

RAYMOND F. JOHNSON, II
No. PE038409
8/29/26

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	7/1/26	PERMIT SET
2	8/18/26	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

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DRAWN: CJP
CHECKED: NBN
CHECKED:
APPROVED: RFJ

FILENAME

BC PROJECT NUMBER
Project Number

CLIENT PROJECT NUMBER

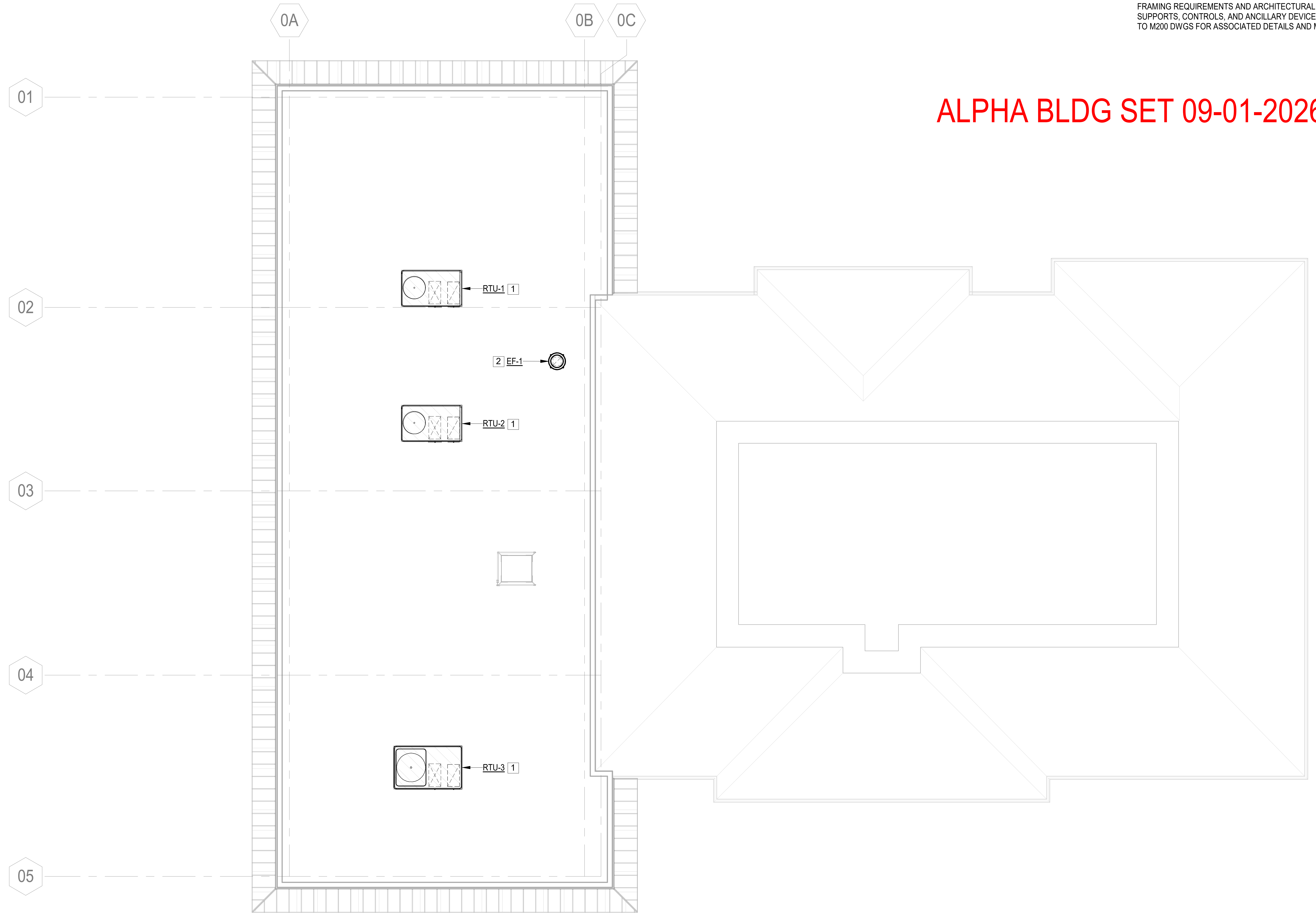
SECOND FLOOR
NEW WORK PLAN

DRAWING NUMBER
M102

☒ CONSTRUCTION NOTES:

1. PROVIDE ROOFTOP UNIT AND 24" TALL WIND RATED ROOF CURB IN ITS ENTIRETY. SECURE CURB TO STRUCTURE IN ACCORDANCE WITH GEORGIA STATE BUILDING CODE AND ASCE 7. COORDINATE WITH STRUCTURAL DWGS FOR FRAMING REQUIREMENTS AND ARCHITECTURAL DWGS FOR FLASHING REQUIREMENTS. PROVIDE ALL ASSOCIATED SUPPORTS, CONTROLS, AND ANCILLARY DEVICES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. REFER TO M200 DWGS FOR ASSOCIATED DETAILS AND M300 DWGS FOR SCHEDULED CAPACITY.
2. PROVIDE EXHAUST FAN AND 24" TALL WIND RATED ROOF CURB IN ITS ENTIRETY. SECURE CURB TO STRUCTURE IN ACCORDANCE WITH GEORGIA STATE BUILDING CODE AND ASCE 7. COORDINATE WITH STRUCTURAL DWGS FOR FRAMING REQUIREMENTS AND ARCHITECTURAL DWGS FOR FLASHING REQUIREMENTS. PROVIDE ALL ASSOCIATED SUPPORTS, CONTROLS, AND ANCILLARY DEVICES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. REFER TO M200 DWGS FOR ASSOCIATED DETAILS AND M300 DWGS FOR SCHEDULED CAPACITY.

ALPHA BLDG SET 09-01-2026



① ROOF PLAN
SCALE: 1/8" = 1'-0"

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BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

No. PE038409
RAYMOND F. JOHNSON, II
8/29/26

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	7/1/26	PERMIT SET

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: CJP
DRAWN: CJP
CHECKED: NBN
CHECKED:
APPROVED: RFJ

FILENAME

BC PROJECT NUMBER
Project Number

CLIENT PROJECT NUMBER

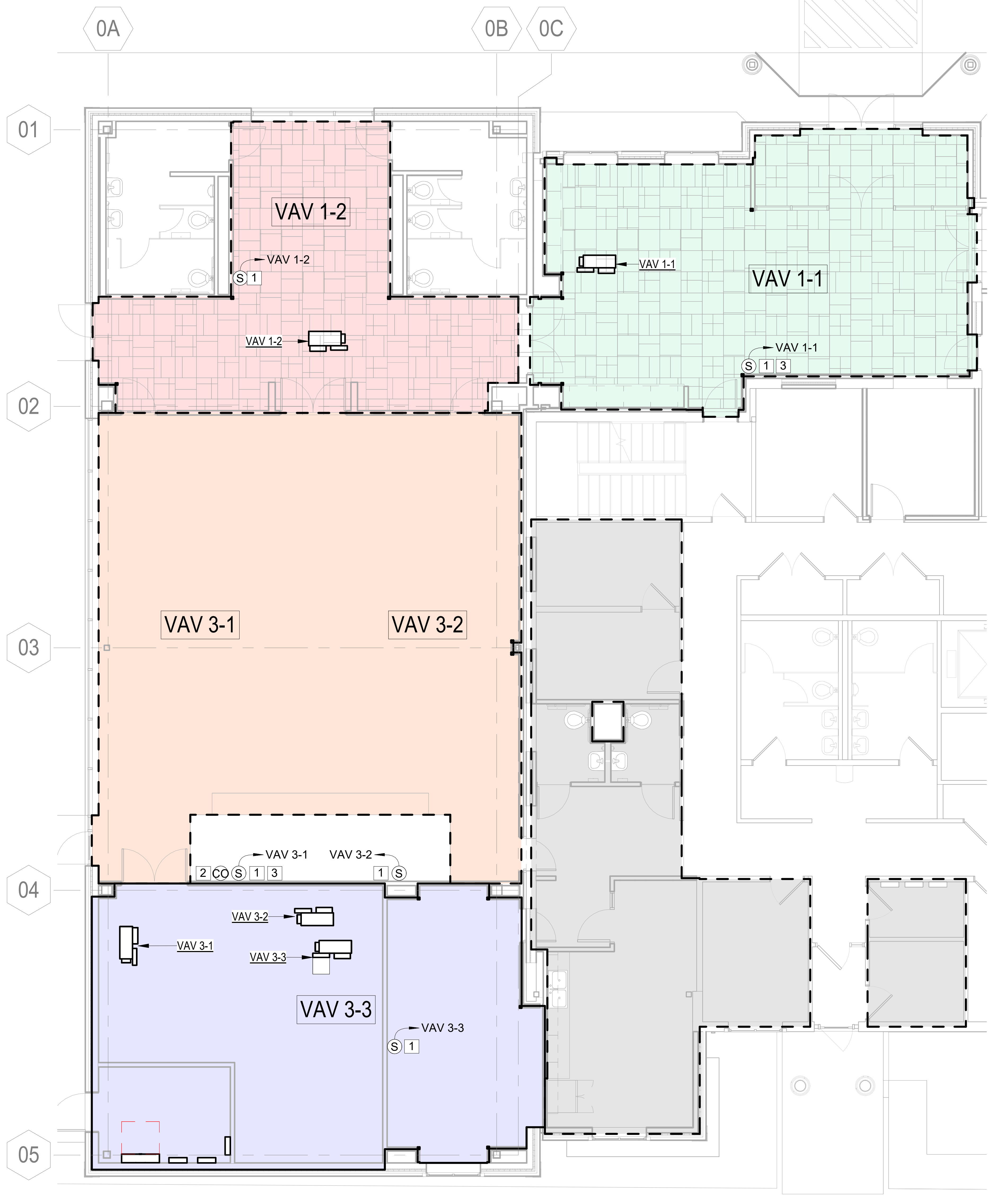
ROOF PLAN

DRAWING NUMBER
M103

☒ CONSTRUCTION NOTES:

1. PROVIDE SPACE TEMPERATURE SENSOR, AND ASSOCIATED SUPPORTS, CONTROLS, AND ANCILLARY DEVICES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER INFORMATION.
2. PROVIDE CARBON MONOXIDE SENSOR, AND ASSOCIATED SUPPORTS, CONTROLS, AND ANCILLARY DEVICES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER INFORMATION.
3. PROVIDE CONTROL WIRE AS REQUIRED FOR UNOCCUPIED TEMPERATURE SENSOR. PROVIDE ALL REQUIRED ANCILLARY DEVICES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.

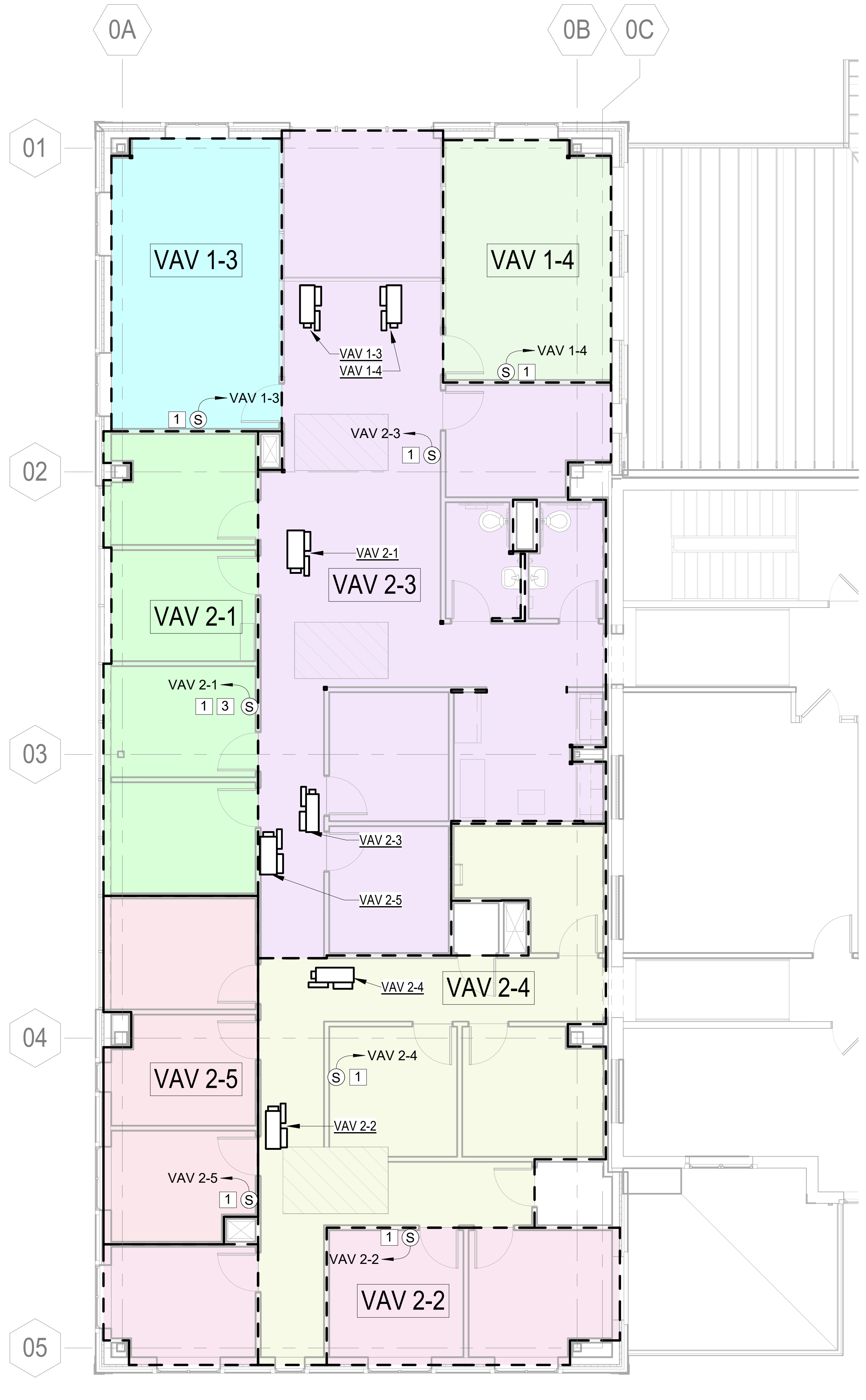
ALPHA BLDG SET 09-01-2026



- ⬜ EXISTING AC-13
- 🟩 ZONE 1-1
- 🟥 ZONE 1-2
- 🟧 ZONE 3-1,2
- 🟪 ZONE 3-3

① FIRST FLOOR ZONING PLAN

SCALE: 1/8" = 1'-0"



- 🟦 ZONE 1-3
- 🟩 ZONE 1-4
- 🟩 ZONE 2-1
- 🟥 ZONE 2-2
- 🟪 ZONE 2-3
- 🟨 ZONE 2-4
- 🟥 ZONE 2-5

② SECOND FLOOR ZONING PLAN

SCALE: 1/8" = 1'-0"

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

GEORGIA REGISTERED PROFESSIONAL ENGINEER No. PE038409 RAYMOND F. JOHNSON, II

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	7/1/26	PERMIT SET

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AT FULL SIZE

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FILENAME

BC PROJECT NUMBER
Project Number

CLIENT PROJECT NUMBER

ZONNING PLAN

DRAWING NUMBER
M104

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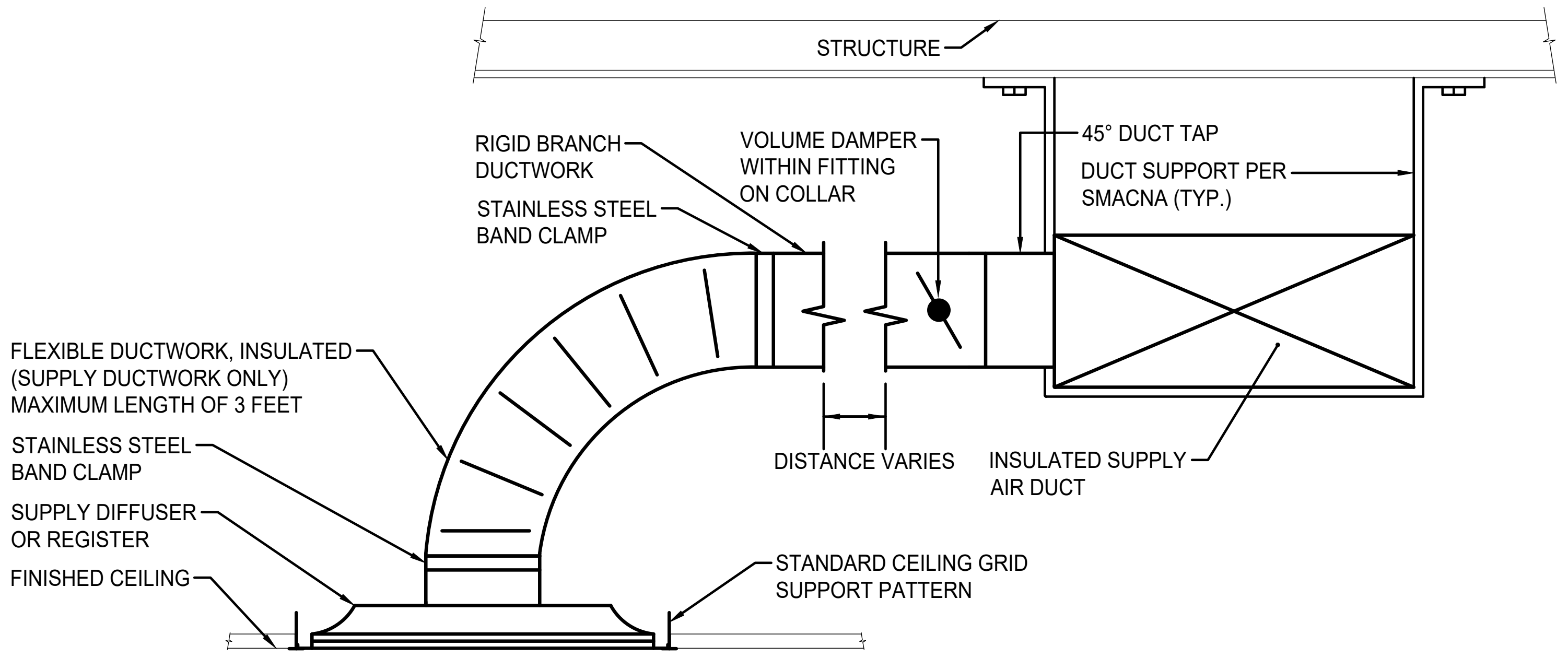
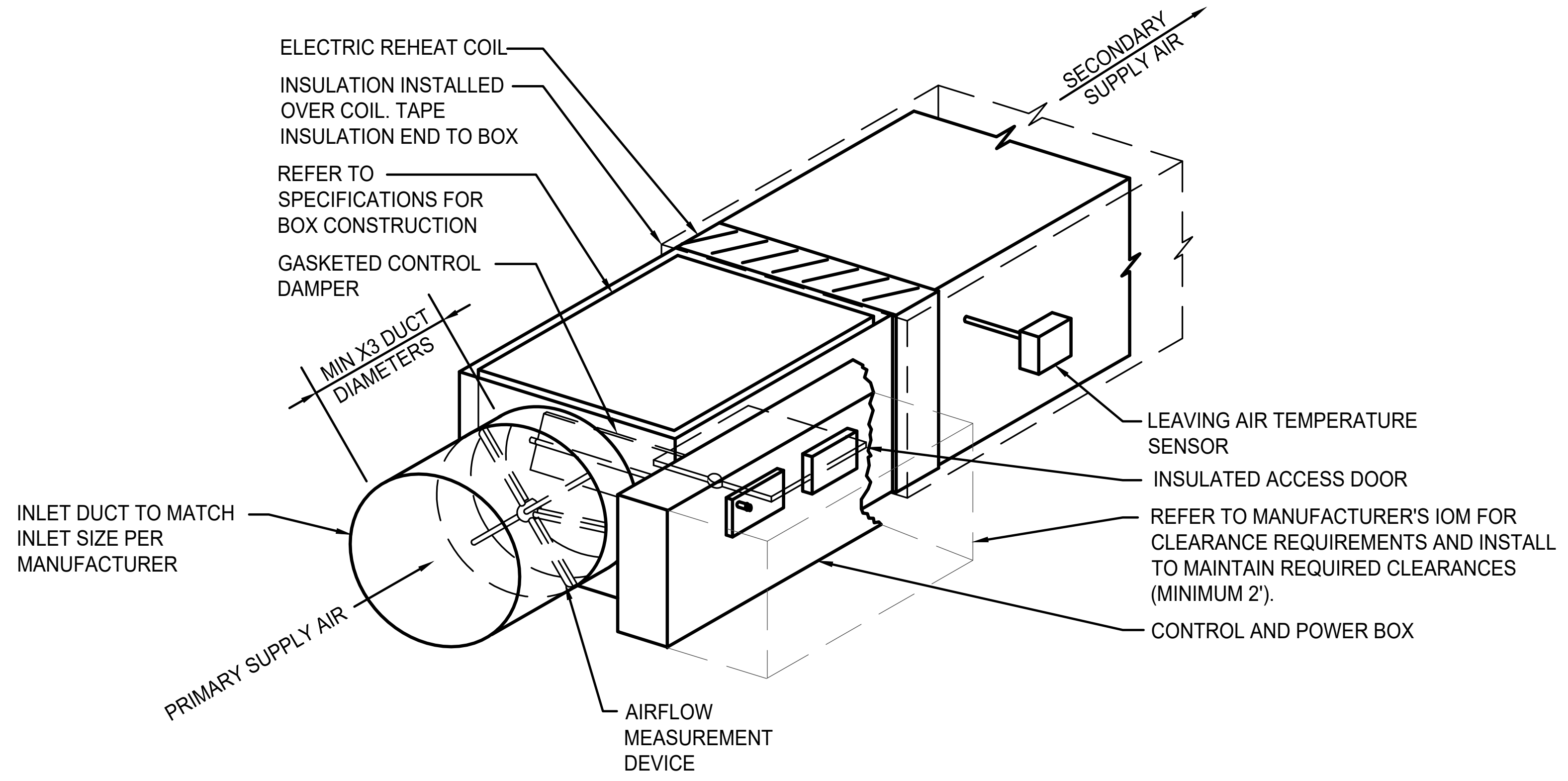

STRUCTURE
RIGID BRANCH DUCTWORK
STAINLESS STEEL BAND CLAMP
VOLUME DAMPER WITHIN FITTING ON COLLAR
45° DUCT TAP
DUCT SUPPORT PER SMACNA (TYP.)
FLEXIBLE DUCTWORK, INSULATED (SUPPLY DUCTWORK ONLY) MAXIMUM LENGTH OF 3 FEET
STAINLESS STEEL BAND CLAMP
SUPPLY DIFFUSER OR REGISTER
FINISHED CEILING
DISTANCE VARIES
INSULATED SUPPLY AIR DUCT
STANDARD CEILING GRID SUPPORT PATTERN

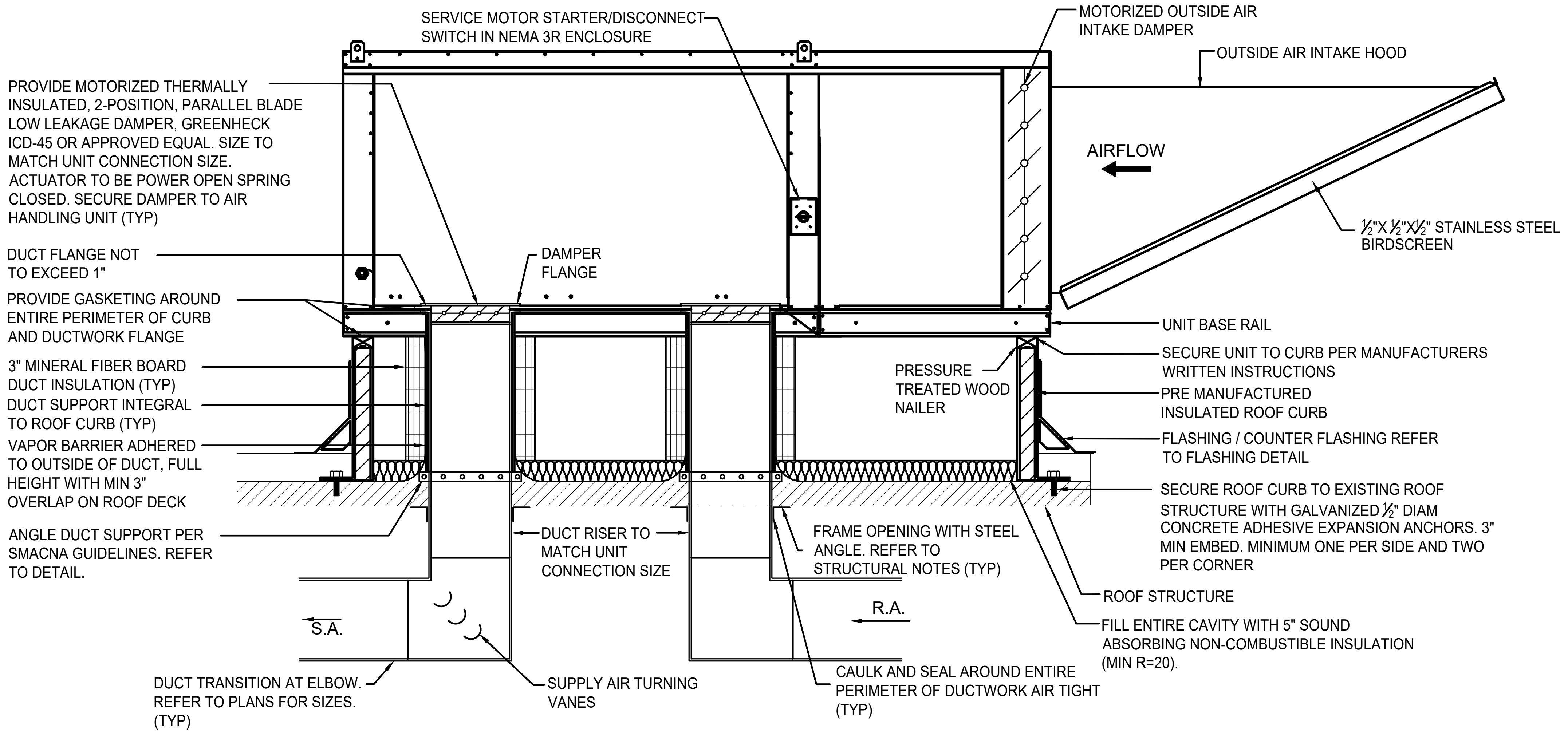
NOTE:
1. CONTRACTOR TO VERIFY TYPE OF DIFFUSER PRIOR TO PURCHASING TO DETERMINE IF SURFACE MOUNTED OR LAY-IN STYLE IS REQUIRED IN EACH LOCATION.
2. OFFSETS WITH FLEX DUCT SHALL NOT EXCEED 30 DEGREES AND SHALL BE GRADUAL. OFFSETS IN EXCESS OF 30 DEGREES SHALL BE HARD-DUCTED. GRADUAL 90 DEGREE OFFSET IS PERMITTED WHERE SPACE IS AVAILABLE.
3. FLEX DUCT SHALL NOT HAVE MORE THAN ½" SAG PER FOOT.
4. LENGTH OF FLEX DUCT SHALL NOT EXCEED 3'-0".
5. PROVIDE DUCT MOUNTED VOLUME DAMPER AS CLOSE TO MAIN DUCT AS POSSIBLE.
6. PROVIDE SINGLE BLADE DAMPERS UP TO 12" HIGH AND ON ROUND DUCT. PROVIDE MULTI BLADE DAMPERS ON ALL DUCTS OVER 12" HIGH PER SMACNA REQUIREMENTS.
7. PROVIDE LOCKING STYLE DAMPER HANDLE REGULATORS WITH HEXAGON NOT, DURO DYNE OR APPROVED EQUAL.

TYPICAL CEILING SUPPLY DIFFUSER DETAIL
SCALE: NOT TO SCALE

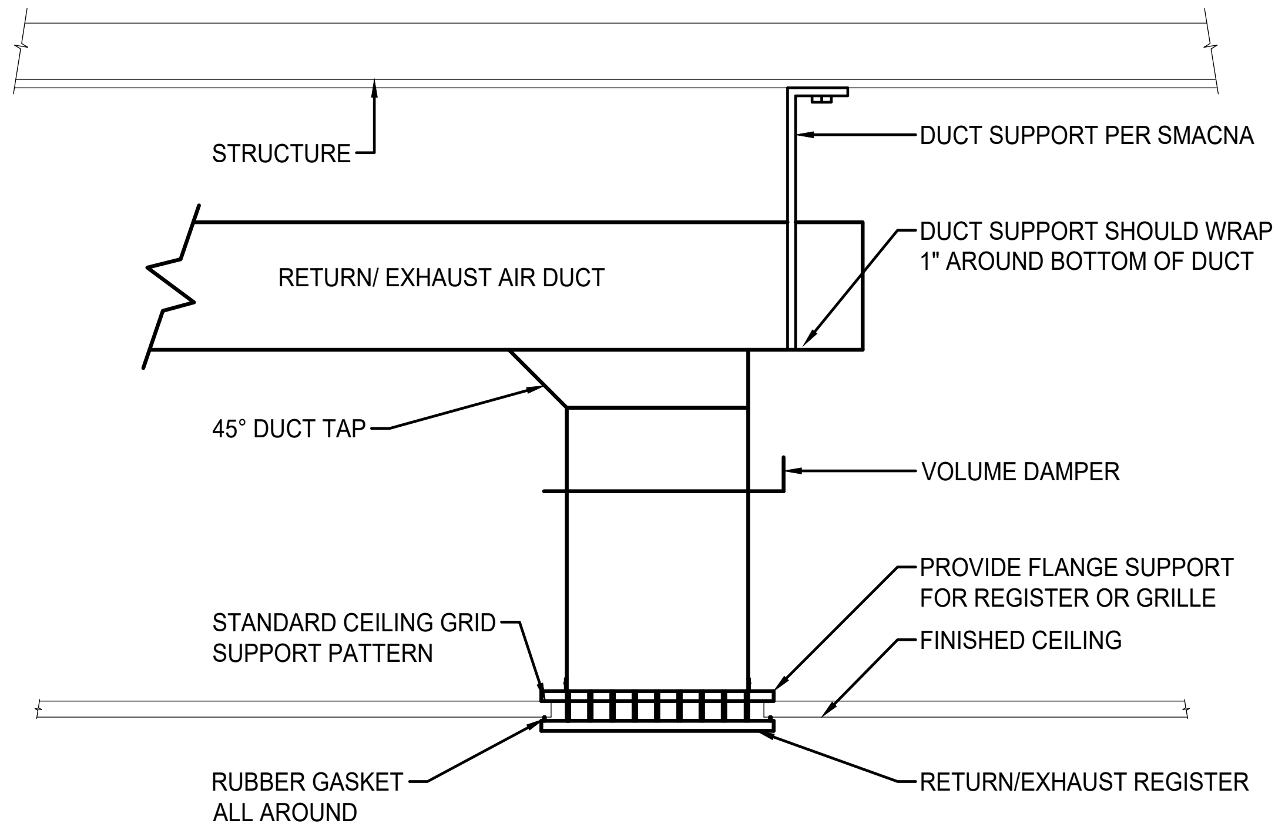

ELECTRIC REHEAT COIL
INSULATION INSTALLED OVER COIL. TAPE INSULATION END TO BOX
REFER TO SPECIFICATIONS FOR BOX CONSTRUCTION
GASKETED CONTROL DAMPER
SECONDARY SUPPLY AIR
MIN X3 DUCT DIAMETERS
INLET DUCT TO MATCH INLET SIZE PER MANUFACTURER
PRIMARY SUPPLY AIR
AIRFLOW MEASUREMENT DEVICE
LEAVING AIR TEMPERATURE SENSOR
INSULATED ACCESS DOOR
REFER TO MANUFACTURER'S IOM FOR CLEARANCE REQUIREMENTS AND INSTALL TO MAINTAIN REQUIRED CLEARANCES (MINIMUM 2').
CONTROL AND POWER BOX

NOTE:
1. COMPLY WITH MANUFACTURER'S REQUIREMENTS FOR CLEARANCE TO CONTROL BOX.
2. PROVIDE LINED DUCTWORK 3FT PAST VAV DISCHARGE. REFER TO SPECIFICATIONS FOR LINED DUCTWORK CONSTRUCTION

2 TYPICAL VARIABLE AIR VOLUME TERMINAL UNIT DETAIL (VAV)
SCALE: NOT TO SCALE

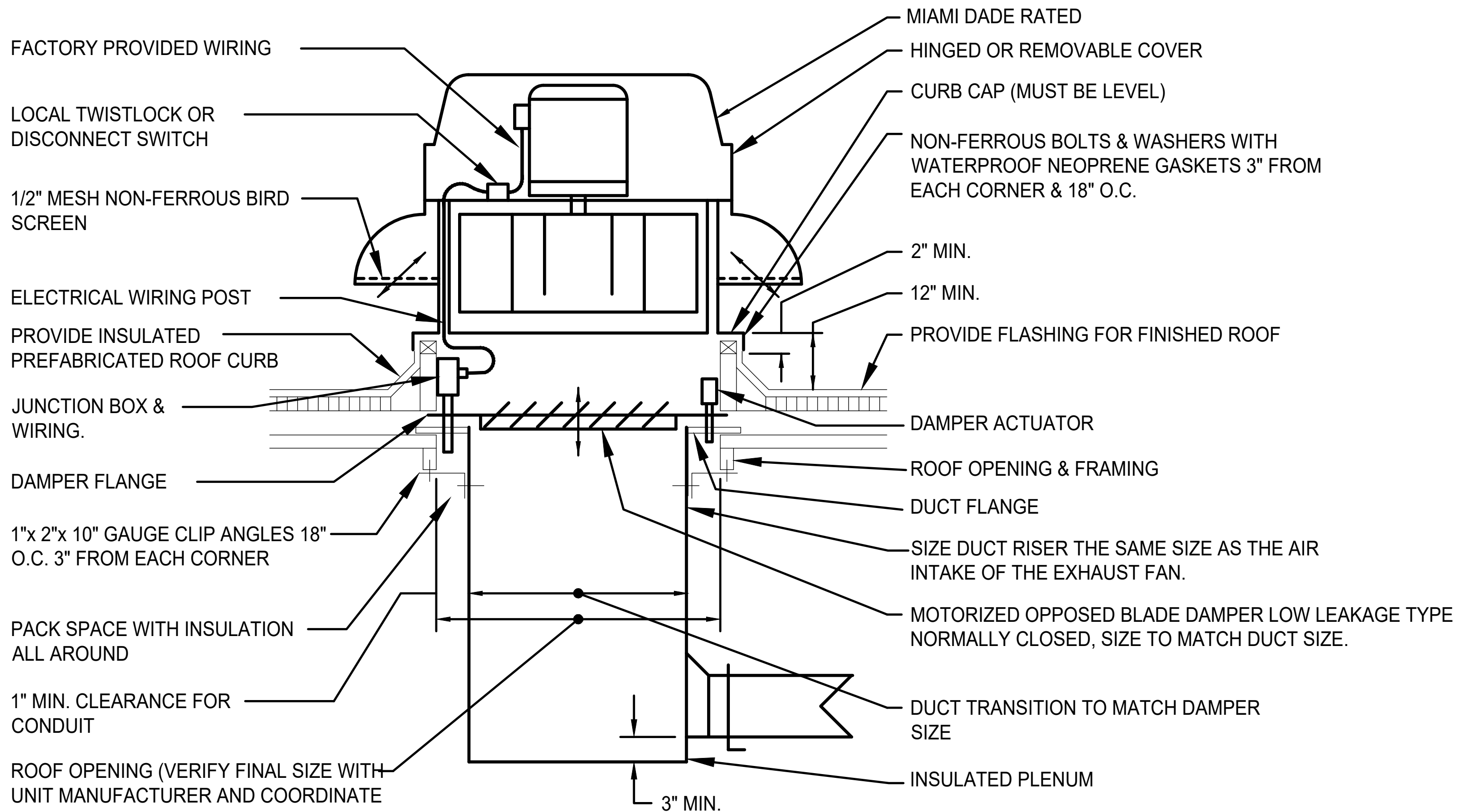

SERVICE MOTOR STARTER/DISCONNECT SWITCH IN NEMA 3R ENCLOSURE
MOTORIZED OUTSIDE AIR INTAKE DAMPER
OUTSIDE AIR INTAKE HOOD
PROVIDE MOTORIZED THERMALLY INSULATED, 2-POSITION, PARALLEL BLADE LOW LEAKAGE DAMPER, GREENHECK ICD-45 OR APPROVED EQUAL. SIZE TO MATCH UNIT CONNECTION SIZE. ACTUATOR TO BE POWER OPEN SPRING CLOSED. SECURE DAMPER TO AIR HANDLING UNIT (TYP)
AIRFLOW
½"X½"X½" STAINLESS STEEL BIRDSCREEN
DUCT FLANGE NOT TO EXCEED 1"
DAMPER FLANGE
PROVIDE GASKETING AROUND ENTIRE PERIMETER OF CURB AND DUCTWORK FLANGE
UNIT BASE RAIL
3" MINERAL FIBER BOARD DUCT INSULATION (TYP)
DUCT SUPPORT INTEGRAL TO ROOF CURB (TYP)
VAPOR BARRIER ADHERED TO OUTSIDE OF DUCT, FULL HEIGHT WITH MIN 3" OVERLAP ON ROOF DECK
PRESSURE TREATED WOOD NAILER
SECURE UNIT TO CURB PER MANUFACTURERS WRITTEN INSTRUCTIONS
PRE MANUFACTURED INSULATED ROOF CURB
FLASHING / COUNTER FLASHING REFER TO FLASHING DETAIL
SECURE ROOF CURB TO EXISTING ROOF STRUCTURE WITH GALVANIZED ½" DIAM CONCRETE ADHESIVE EXPANSION ANCHORS. 3" MIN EMBED. MINIMUM ONE PER SIDE AND TWO PER CORNER
ANGLE DUCT SUPPORT PER SMACNA GUIDELINES. REFER TO DETAIL.
DUCT RISER TO MATCH UNIT CONNECTION SIZE
FRAME OPENING WITH STEEL ANGLE. REFER TO STRUCTURAL NOTES (TYP)
ROOF STRUCTURE
S.A.
R.A.
FILL ENTIRE CAVITY WITH 5" SOUND ABSORBING NON-COMBUSTIBLE INSULATION (MIN R=20).
DUCT TRANSITION AT ELBOW. REFER TO PLANS FOR SIZES. (TYP)
SUPPLY AIR TURNING VANES
CAULK AND SEAL AROUND ENTIRE PERIMETER OF DUCTWORK AIR TIGHT (TYP)

ROOF MOUNTED MAKE-UP AIR UNIT
SCALE: NOT TO SCALE

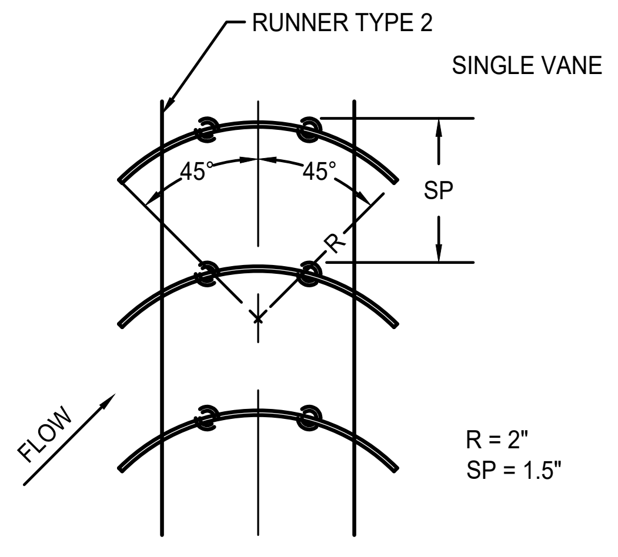


NOTE:
1. ALL BRANCH DUCT CONNECTIONS SHALL BE HARD DUCTED TO SQUARE NECKED GRILLS. NO SPIN ON COLLARS OR ROUND FLEXIBLE DUCTWORK SHALL BE ALLOWED.
2. CONTRACTOR TO VERIFY TYPE OF DIFFUSER PRIOR TO PURCHASING TO DETERMINE IF SURFACE MOUNTED OR LAY-IN STYLE IS REQUIRED IN EACH LOCATION.
3. PROVIDE DUCT MOUNTED VOLUME DAMPER AS CLOSE TO MAIN DUCT AS POSSIBLE.
4. PROVIDE SINGLE BLADE DAMPERS UP TO 12" HIGH AND ON ROUND DUCT. PROVIDE MULTI BLADE DAMPERS ON ALL DUCTS OVER 12" HIGH PER SMACNA REQUIREMENTS.
5. PROVIDE LOCKING STYLE DAMPER HANDLE REGULATORS WITH HEXAGON NOT, DURO DYNE OR APPROVED EQUAL.

TYPICAL REGISTER CONNECTION
SCALE: NOT TO SCALE

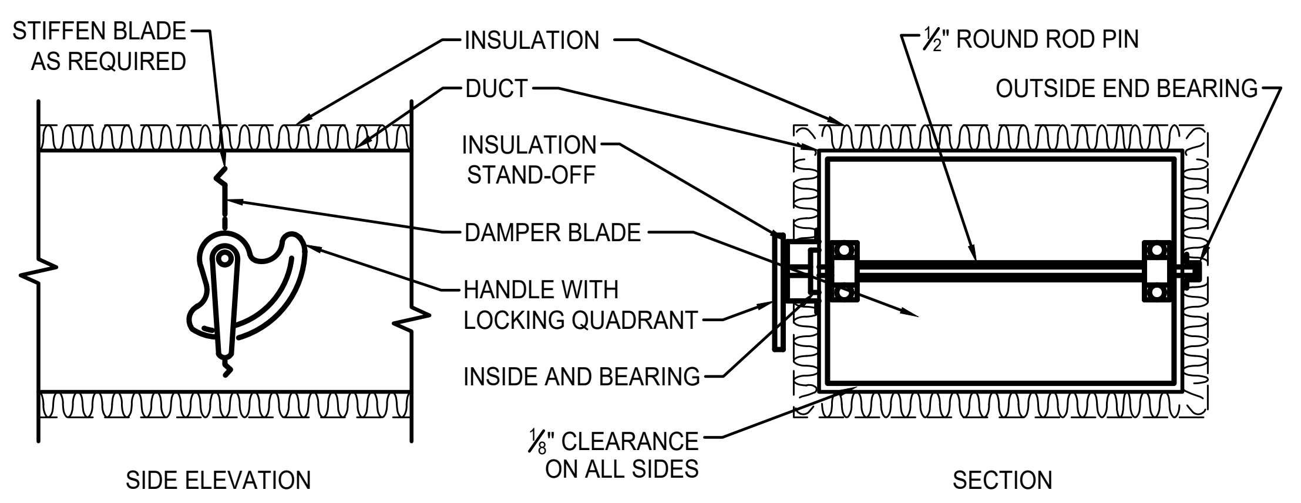

FACTORY PROVIDED WIRING
LOCAL TWISTLOCK OR DISCONNECT SWITCH
1/2" MESH NON-FERROUS BIRD SCREEN
ELECTRICAL WIRING POST
PROVIDE INSULATED PREFABRICATED ROOF CURB
JUNCTION BOX & WIRING.
DAMPER FLANGE
1"x 2"x 10" GAUGE CLIP ANGLES 18" O.C. 3" FROM EACH CORNER
PACK SPACE WITH INSULATION ALL AROUND
1" MIN. CLEARANCE FOR CONDUIT
ROOF OPENING (VERIFY FINAL SIZE WITH UNIT MANUFACTURER AND COORDINATE WITH GENERAL CONTRACTOR)
MIAMI DADE RATED
HINGED OR REMOVABLE COVER
CURB CAP (MUST BE LEVEL)
NON-FERROUS BOLTS & WASHERS WITH WATERPROOF NEOPRENE GASKETS 3" FROM EACH CORNER & 18" O.C.
2" MIN.
12" MIN.
PROVIDE FLASHING FOR FINISHED ROOF
DAMPER ACTUATOR
ROOF OPENING & FRAMING
DUCT FLANGE
SIZE DUCT RISER THE SAME SIZE AS THE AIR INTAKE OF THE EXHAUST FAN.
MOTORIZED OPPOSED BLADE DAMPER LOW LEAKAGE TYPE NORMALLY CLOSED, SIZE TO MATCH DUCT SIZE.
DUCT TRANSITION TO MATCH DAMPER SIZE
INSULATED PLENUM
3" MIN.

ROOF MOUNTED DOWNBLAST EXHAUST FAN
SCALE: NOT TO SCALE



NOTE:
1. PROVIDE ON ALL RECTANGULAR SUPPLY ELBOWS

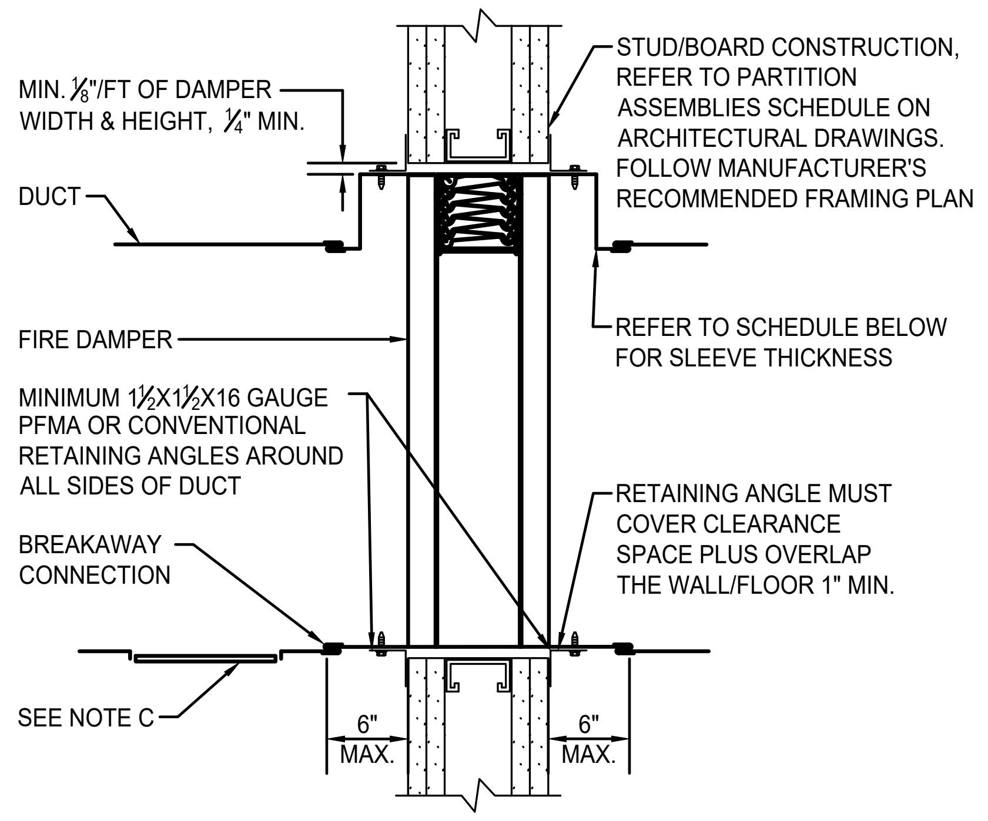
3 TURNING VANE DETAIL
SCALE: NOT TO SCALE



VOLUME DAMPER INSTALLATION DETAIL
SCALE: NOT TO SCALE

NOTES:

A. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
B. DETAIL SHOWS A SINGLE BLADE DAMPER. INSTALLATION SHALL BE SIMILAR FOR ROUND DAMPER AND MULTI-BLADE DAMPER


MIN. ⅛"/FT OF DAMPER WIDTH & HEIGHT, ¼" MIN.
DUCT
FIRE DAMPER
MINIMUM 1½X1½X16 GAUGE PFMA OR CONVENTIONAL RETAINING ANGLES AROUND ALL SIDES OF DUCT
BREAKAWAY CONNECTION
SEE NOTE C
6" MAX.
6" MAX.
STUD/BOARD CONSTRUCTION, REFER TO PARTITION ASSEMBLIES SCHEDULE ON ARCHITECTURAL DRAWINGS. FOLLOW MANUFACTURER'S RECOMMENDED FRAMING PLAN
REFER TO SCHEDULE BELOW FOR SLEEVE THICKNESS
RETAINING ANGLE MUST COVER CLEARANCE SPACE PLUS OVERLAP THE WALL/FLOOR 1" MIN.

MINIMUM SLEEVE THICKNESS FOR FIRE DAMPERS

TYPE OF DUCT TO SLEEVE CONNECTION	DUCT	DUCT DIMENSION	SLEEVE GAUGE
RIGID	ROUND RECTANGULAR	24" MAX. DIAMETER 36" MAXIMUM WIDTH OR 24" MAX. HEIGHT	16 (.060")
RIGID	ROUND RECTANGULAR	OVER 24" DIAMETER OVER 36" WIDTH OR OVER 24" HEIGHT	14 (.075")
BREAKAWAY (OR NO DUCT)	ROUND OR RECTANGULAR	12" WIDE AND UNDER 13"-30" WIDE 31"-54" WIDE 55"-84" WIDE 85" WIDE AND OVER	26 (.018") 24 (.024") 22 (.030") 20 (.036") 18 (.048")

NOTE: SLEEVE THICKNESS MUST NOT BE LESS THAN THE GAUGE OF THE CONNECTING DUCT.

10 CURTAIN STYLE FIRE DAMPER DETAIL
SCALE: NOT TO SCALE

NOTES:

A. PROVIDED FOR GENERAL INSTALLATION GUIDANCE. ACTUAL INSTALLATION SHALL CONFORM TO MANUFACTURER'S INSTALLATION GUIDELINES IN ALL RESPECTS TO MAINTAIN UL RATING OF ASSEMBLY.
B. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF STUD FRAMING AROUND THE SLEEVE WITH OTHER TRADES. FOR WOOD CONSTRUCTION, WALL BOARD MUST COVER ALL WOOD STUD SURFACES.
C. ACCESS DOOR: MINIMUM SIZE 12x12. IF DUCT IS LESS THAN 14" WIDE, PROVIDE 24" LONG REMOVABLE DUCT SECTION, FLANGED, GASKETED AND SECURED WITH WING NUTS WITH 8x8 ACCESS INSPECTION DOOR. IF ASSEMBLY IS PROVIDED WITH FACTORY INSTALLED ACCESS DOOR, DAMPER SLEEVE SHALL BE 16" MAX. BEYOND THE EDGE OF THE RATED CONSTRUCTION.
C. FASTENERS SHALL BE MINIMUM #10 SCREWS SPACED 6" O.C. MAX. AND 2" MAX. FROM CORNERS SLEEVE ATTACHMENT AND MINIMUM 2 FASTENERS PER SIDE.
D. HORIZONTAL INSTALLATION IS SIMILAR.

ALPHA BLDG SET 09-01-2026

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

RAYMOND F. JOHNSON, II

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	7/1/26	PERMIT SET

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: CJP
DRAWN: CJP
CHECKED: NBN
CHECKED:
APPROVED: RFJ

FILENAME

BC PROJECT NUMBER

CLIENT PROJECT NUMBER

MECHANICAL
DETAILS

DRAWING NUMBER
M201

VARIABLE AIR VOLUME BOX SCHEDULE (VAV)

PLAN DESIGNATION	MANUFACTURER MODEL NO.	ASSOCIATED EQUIPMENT	INLET SIZE (IN.)	LOCATION	MAXIMUM AIR FLOW (CFM)	MINIMUM AIR FLOW (CFM)	REHEAT AIRFLOW (CFM)	AIR PRESSURE DROP (IN. W.C.)	COIL DATA CAPACITY (KW)	COIL DATA EAT (°F)	COIL DATA LWT (°F)	COIL DATA VOLTS / PHASE	COIL DATA AMPS	MAXIMUM NC	NOTES
VAV 1-1	PRICE-SDV	RTU -1	7	LOBBY	490	120	390	.5	4.9	55	95	208 / 3	13.6	<30	1-7
VAV 1-2	PRICE-SDV	RTU -1	8	PRE-FUNCTION	825	250	485	.5	6.1	55	95	208 / 3	16.9	<30	1-7
VAV 1-3	PRICE-SDV	RTU -1	7	CORRIDOR	730	150	225	.5	2.8	55	95	208 / 3	7.8	<30	1-7
VAV 1-4	PRICE-SDV	RTU -1	7	CORRIDOR	635	150	245	.5	3.1	55	95	208 / 3	8.6	<30	1-7
VAV 2-1	PRICE-SDV	RTU -2	9	CORRIDOR	1350	160	300	.5	3.8	55	95	208 / 3	10.6	<30	1-7
VAV 2-2	PRICE-SDV	RTU -2	9	CORRIDOR	1000	160	350	.5	4.4	55	95	208 / 3	12.2	<30	1-7
VAV 2-3	PRICE-SDV	RTU -2	7	CORRIDOR	640	130	130	.5	3.2	55	95	208 / 3	8.9	<30	1-7
VAV 2-4	PRICE-SDV	RTU -2	7	CORRIDOR	425	120	220	.5	3.2	55	95	208 / 3	8.9	<30	1-7
VAV 2-5	PRICE-SDV	RTU -2	8	CORRIDOR	820	125	200	.5	2.5	55	95	208 / 3	6.9	<30	1-7
VAV 3-1	PRICE-SDV	RTU -3	10	STORAGE	1500	450	450	.5	5.7	55	95	208 / 3	15.8	<30	1-7
VAV 3-2	PRICE-SDV	RTU -3	9	STORAGE	1000	300	300	.5	3.8	55	95	208 / 3	10.6	<30	1-7
VAV 3-3	PRICE-SDV	RTU -3	7	STORAGE	650	125	290	.5	3.6	55	95	208 / 3	10.0	<30	1-7

1. PROVIDE INSULATED ACCESS DOOR IN VAV BOX FOR VIEWING DAMPER AND COIL.
2. COORDINATE VAV SUPPLY AIR DUCT TRANSITION WITH VAV NECK CONNECTION SIZE.
3. INLET STATIC PRESSURE SHALL BE .75 (I.N. W.G.).
4. PROVIDE SCR CONTROLLER FOR REHEATS
5. PROVIDE HI-LIMIT DISCHARGE STAT
6. PROVIDE ELECTRICAL DISCONNECT SWITCH
7. PROVIDE SPACE TEMPERATURE SENSOR
8. PROVIDE FACTORY VAV CONTROLLER

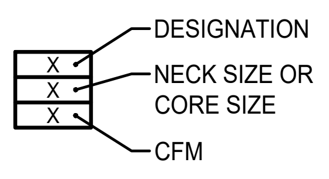
REGISTER, GRILLE, AND DIFFUSER SCHEDULE

PLAN DESIGNATION	MANUFACTURER MODEL NO.	TYPE	NECK SIZE	MAX. N.C. LEVEL	FACE SIZE (IN.)	MATERIAL	NOTES
SD-1	PRICE SPD	SQUARE PLAQUE	VARIES	<30	24" X 24"	STEEL	PROVIDE VOLUME DAMPER
RG-1	PRICE 525	FIXED DEFLECTION	VARIES	<30	24" X 24"	STEEL	
EG-1	PRICE 625	FIX DEFLECTION	VARIES	<30	24" X 24"	ALUMINUM	
TG-1	PRICE 525	FIXED DEFLECTION	VARIES	<30	24" X 24"	STEEL	

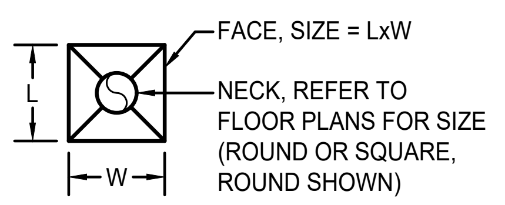
GENERAL NOTES:

1. A REGISTER IS DEFINED AS A GRILLE WITH A FACE DAMPER.
2. FACE SIZE IS DEFINED AS THE MAXIMUM OUTSIDE DIMENSIONS OF THE AIR INLET/OUTLET. REFER TO DIAGRAMS CONTAINED WITHIN FOR ADDITIONAL INFORMATION.
3. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING AIR INLETS AND OUTLETS. PROVIDE ALL REQUIRED BRACKETS, FLANGES, SURFACE PLATES, AND FRAMES TO MOUNT THE DEVICE. REFER TO ARCHITECTURAL CEILING PLANS FOR CEILING TYPES.
4. SUBMIT A SEPARATELY FROM TECHNICAL DATA A COLOR CHART FOR COLOR AND FINISH SELECTION.

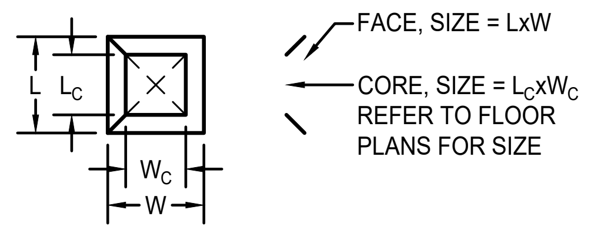
DEVICE TAG



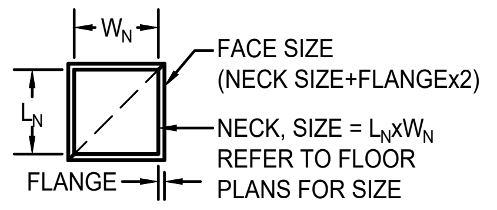
CEILING DIFFUSER


FACE, SIZE = LxW
NECK, REFER TO FLOOR PLANS FOR SIZE (ROUND OR SQUARE, ROUND SHOWN)
L
W

CEILING DIFFUSER w/ CORE



REGISTER / GRILLE


WN
FACE SIZE (NECK SIZE+FLANGEx2)
NECK, SIZE = LNxWN REFER TO FLOOR PLANS FOR SIZE
LN
FLANGE

AIR CONDITIONING UNIT SCHEDULE (RTU)

PLAN DESIGNATION	MANUFACTURER MODEL NO.	ASSOCIATED EQUIPMENT	MAXIMUM UNIT WEIGHT (LBS)	AIR FLOW (CFM)	MIN O.A. CFM (OCCUPIED)	TOTAL S.P. (IN. W.C.)	EXTERNAL S.P. (IN. W.C.)	EER	IEER	D/X COOLING SECTION TOTAL CAP. (MBH)	D/X COOLING SECTION SENSIBLE CAP. (MBH)	D/X COOLING SECTION EAT (°Fdb/°Fwd)	D/X COOLING SECTION LAT (°Fdb/°Fwd)	HEATING (HEAT PUMP) (23 F AMBIENT) TOTAL CAP. (MBH)	HEATING (HEAT PUMP) (23 F AMBIENT) EAT (°F)	HEATING (HEAT PUMP) (23 F AMBIENT) LAT (°F)	OPERATING FAN HP	FAN HP	NO. OF COMPRESSORS	NO. OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE TOTAL (LB)	TOTAL UNIT ELECTRIC DATA MCA	TOTAL UNIT ELECTRIC DATA MOP	TOTAL UNIT ELECTRIC DATA SCCR	TOTAL UNIT ELECTRIC DATA VOLTS/PHASE	NOTES
RTU-1	TRANE WHK102A	VAV 1-1 THRU VAV 1-4	1293	2600	600	1.4	1.1	12.1	17.5	101.5	75.3	79.8 / 66.0	52.7 / 53.5	70.8	57.75	82.9	1.153	3	1	1	R-454B	16.5	62.0	80.0	65K	208V / 3Ø	SEE BELOW
RTU-2	TRANE WHK102A	VAV 2-1 THRU VAV 2-4	1188	3800	500	1.3	1	12.1	17.5	105.2	89.5	77.3 / 64.5	55.4 / 55.0	69.0	64.12	80.86	1.825	3	1	1	R-454B	16.5	62.0	80.0	65K	208V / 3Ø	SEE BELOW
RTU-3	TRANE WSK120B	VAV 3-1 THRU VAV 3-3	1200	3300	1100	1.3	1	11.0	14.6	116.7	90.87	80.7 / 66.58	55.03 / 54.7	76.8	55.3	71.55	1.4	3	1	1	R-454B	21.5	68.0	90.0	65K	208V / 3Ø	SEE BELOW

2

NOTES:

1. PROVIDE SINGLE VARIABLE FREQUENCY DRIVE FOR SUPPLY WITH INTEGRAL HAND-OFF-AUTO SELECTION SWITCH AND LOCKABLE DISCONNECT. VARIABLE FREQUENCY DRIVE SHALL BE FURNISHED BY ROOFTOP UNIT MANUFACTURER AND RECESSED IN UNIT CABINET WITH PREWIRED CONNECTION BETWEEN UNIT AND DRIVE. SINGLE DRIVE TO CONTROL EACH SET OF SUPPLY FANS(S) VIA STATIC PRESSURE CONTROL.
2. PROVIDE 2" MERV-13 FILTERS.
3. PROVIDE HINGED ACCESS DOOR AND REMOVABLE FILTERS.
4. FAN STATIC PRESSURES TO BE BASED ON FILTERS IN REPLACEMENT CONDITION (.2" WC ALLOWANCE).
5. PROVIDE NON-FUSED, UNIT MOUNTED DISCONNECT BY MANUFACTURER.
6. PROVIDE POWER EXHAUST POWERED BY UNIT SINGLE POINT POWER CONNECTION.
7. PROVIDE HINGED ACCESS DOORS.
8. UNIT TO BE FACTORY FABRICATED AS ONE UNIT BY MANUFACTURER.
9. PROVIDE DOOR KILL SWITCHES ASSOCIATED WITH THE FAN SECTION ACCESS DOOR. KILL SWITCHES TO BE WIRED TO VFD TO AUTOMATICALLY DE-ENERGIZE FANS WHEN DOOR IS OPENED.
10. PROVIDE THYBAR WIND RATED CURB ADAPTOR IN COMPLIANCE WITH THE 2024 GEORGIA BUILDING CODE AND ASCE 7. DEMONSTRATE A CONTINUOUS LOAD PATH FROM EQUIPMENT THROUGH CURB AND TO STRUCTURAL STEEL TO ACCOMMODATE WIND LOADING. CURB SHALL BE INSULATED ON INTERIOR WITH 1-½" THICK 3 LB/CF INSULATION.
11. PROVIDE ECONOMIZER WITH ENTHALPY CONTROL.
12. PROVIDE FACTORY MULTI ZONE VAV CONTROL.
13. PROVIDE POWERED 15A CONVENIENCE OUTLET FROM SINGLE POINT POWER CONNECTION.
14. PROVIDE CLOGGED FILTER SWITCH AND CONDENSATE OVERFLOW SWITCH.
15. PROVIDE CONDENSER HAIL GUARDS.
16. UNIT SHALL BE PROVIDED WITH A VARIABLE SPEED COMPRESSOR MATCHED WITH VFD.
17. PROVIDE REMOTE CONTROL PANEL PER UNIT

EXHAUST FAN SCHEDULE (EF)

PLAN DESIGNATION	MANUFACTURER MODEL NO.	LOCATION	CONSTRUCTION TYPE	DISCHARGE CONFIGURATION	AIR FLOW RATE (CFM)	EXTERNAL S.P. (IN. W.C)	FAN SPEED (RPM)	INLET SONES	DRIVE TYPE	ELECTRICAL DATA MOTOR BHP	ELECTRICAL DATA MOTOR HP	ELECTRICAL DATA VOLTS/ PHASE	NOTES
EF-1	GREENHECK G-099-VG	ROOF	GPF	DB	800	.8	1625	10.9	DIRECT	-	$\frac{1}{4}$	115V / 1Ø	1-10

NOTES:

1. PROVIDE 24" ROOF CURB.
2. PROVIDE ECM WITH 0-10 VDC INPUT SIGNAL AND BALANCING KNOB.
3. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
4. PROVIDE MOTORIZED BACK DAFT DAMPER WITH 24V ACTUATOR PROVIDE INSULATED MOTORIZED DAMPER.
5. PROVIDE INVERTER DUTY PREMIUM EFFICIENCY MOTOR, CLASS F INSULATION.
6. PROVIDE COMBINATION MOTOR STARTER.
7. PROVIDE FAN MOUNTED SPEED CONTROLLER FROM MANUFACTURER.

CONSTRUCTION TYPE:

GPF - GENERAL PURPOSE FAN
SRC - SPARK B RESISTANT CONSTRUCTION

DISCHARGE CONFIGURATION:

CW - CLOCKWISE
UB - UP BLAST
DB - DOWN BLAST

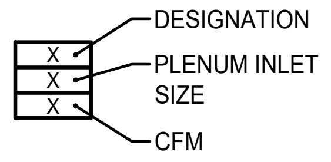
LINEAR DIFFUSER SCHEDULE

PLAN DESIGNATION	MANUFACTURER MODEL NO.	TYPE	MAX. N.C. LEVEL	# OF SLOTS	SLOT WIDTH (IN)	WITH PLENUM	PLENUM INLET SIZE (IN)	OVERALL LENGTH (IN)	THROW PATTERN	MATERIAL	NOTES
LD-1	PRICE SDS	LINEAR SLOT DIFFUSER TYPE 8	<25	5	1/2"	YES	VARIES	48	VERTICAL	STEEL	SEE BELOW
LD-2	PRICE SDS	LINEAR SLOT DIFFUSER TYPE 2	<25	1	3/4"	YES	6	60	1 WAY HORZ.	STEEL	SEE BELOW
LD-3	PRICE SDS	LINEAR SLOT DIFFUSER TYPE 14	<25	3	1/2"	YES	VARIES	48	VERTICAL	STEEL	SEE BELOW
LD-4	PRICE SDS	LINEAR SLOT DIFFUSER TYPE 14	<25	3	1/2"	YES	6	60	VERTICAL	STEEL	SEE BELOW
LD-5	PRICE SDS	LINEAR SLOT DIFFUSER TYPE 2	<25	3	1/2"	YES	NONE	60	1 WAY HORZ.	STEEL	SIDE WALL MOUNTED ON SOFFIT

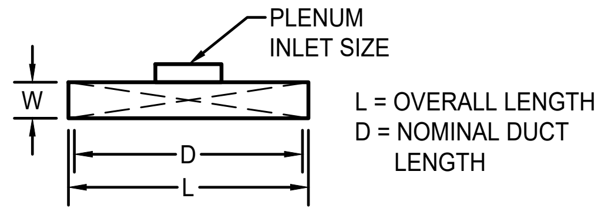
GENERAL NOTES:

1. DIFFUSER SHALL BE SET SUCH THAT SLOT FACING EXTERIOR WALL/WINDOW HAS VERTICAL AIRFLOW, AND SLOT FACING THE INTERIOR OF THE BUILDING HAS HORIZONTAL AIRFLOW.
2. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING AIR INLETS AND OUTLETS. PROVIDE ALL REQUIRED BRACKETS, FLANGES, SURFACE PLATES, AND FRAMES TO MOUNT THE DEVICE. REFER TO ARCHITECTURAL CEILING PLANS FOR CEILING TYPES.
3. SUBMIT A SEPARATELY FROM TECHNICAL DATA A COLOR CHART FOR COLOR AND FINISH SELECTION.

DEVICE TAG



LINEAR DIFFUSER



ALPHA BLDG SET 09-01-2026

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

RAYMOND F. JOHNSON, II
No. PE038409
8/29/26

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	7/1/26	PERMIT SET
2	8/18/26	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: CJP
DRAWN: CJP
CHECKED: NBN
CHECKED:
APPROVED: RFJ
FILENAME
BC PROJECT NUMBER
CLIENT PROJECT NUMBER

MECHANICAL
SCHEDULES

DRAWING NUMBER
M301

ALPHA BLDG SET 09-01-2026

VENTILATION CALC

ROOM NAME	ROOM NUMBER	ASSOCIATED UNIT	AREA (FT2)	CODE / GUIDLINE	SPACE CLASSIFICATION	OCCUPANCY (PEOPLE)	VENTIILATION VBZ (CFM)	ZONE AIR DISTRIBUTION EZ	MININUM OUTDOOR AIRFLOW VOZ (CFM)	EXHAUST RATE (CFM)	ASSOCIATED VAV	SYSTEM VENITILATION EFFICENCY EV
VEST	100	RTU-1	140	2025 MECH CODE	CORRIDORS	0	8	0.8	11	-	VAV-1-1	1
LOBBY	101	RTU-1	725	2025 MECH CODE	LOBBIES	10	94	0.8	117	-	VAV-1-1	0.8
PREFUCTION SPACE	144	RTU-1	650	2025 MECH CODE	LOBBIES/PREFUNCTION	20	190	0.8	237	-	VAV-1-2	0.8
WOMEN'S ROOM	145	RTU-1	180	2025 MECH CODE	TOILETS—PUBLIC	-	-	-	-	150	-	-
MEN'S ROOM	146	RTU-1	180	2025 MECH CODE	TOILETS—PUBLIC	-	-	-	-	150	-	-
CONFERENCE ROOM	237	RTU-1	350	2025 MECH CODE	CONFERENCE/MEETING	12	81	0.8	102	-	VAV-1-3	0.9
CONFERENCE ROOM	238	RTU-1	275	2025 MECH CODE	CONFERENCE/MEETING	12	77	0.8	96	-	VAV-1-4	0.9
OFFICE	239	RTU-2	115	2025 MECH CODE	OFFICE SPACE	1	12	0.8	15	-	VAV-2-3	1
OFFICE	240	RTU-2	115	2025 MECH CODE	OFFICE SPACE	1	12	0.8	15	-	VAV-2-1	1
REST ROOM	241	RTU-2	55	2025 MECH CODE	TOILETS—PUBLIC	-	-	-	-	75	-	-
REST ROOM	242	RTU-2	55	2025 MECH CODE	TOILETS—PUBLIC	-	-	-	-	75	-	-
OFFICE	243	RTU-2	115	2025 MECH CODE	OFFICE SPACE	1	12	0.8	15	-	VAV-2-1	1
OFFICE	244	RTU-2	115	2025 MECH CODE	OFFICE SPACE	1	12	0.8	15	-	VAV-2-1	1
OFFICE	245	RTU-2	115	2025 MECH CODE	OFFICE SPACE	1	12	0.8	15	-	VAV-2-3	1
PRINTING AREA	246	RTU-2	125	2025 MECH CODE	COPY, PRINTING ROOMS	-	-	-	-	75	-	-
OFFICE	247	RTU-2	115	2025 MECH CODE	OFFICE SPACE	1	12	0.8	15	-	VAV-2-1	1
OFFICE	248	RTU-2	115	2025 MECH CODE	OFFICE SPACE	1	12	0.8	15	-	VAV-2-4	1
STORAGE	249	RTU-2	90	2025 MECH CODE	STORAGE	0	5	0.8	7	-	VAV-2-4	1
CLOSET	250	RTU-2	23	2025 MECH CODE	STORAGE	0	2	0.8	3	-	-	-
OFFICE	251	RTU-2	115	2025 MECH CODE	OFFICE SPACE	1	12	0.8	15	-	VAV-2-5	1
OFFICE	252	RTU-2	115	2025 MECH CODE	OFFICE SPACE	1	12	0.8	15	-	VAV-2-5	1
OFFICE	253	RTU-2	115	2025 MECH CODE	OFFICE SPACE	1	12	0.8	15	-	VAV-2-4	1
OFFICE	254	RTU-2	115	2025 MECH CODE	OFFICE SPACE	1	12	0.8	15	-	VAV-2-4	1
OFFICE	255	RTU-2	115	2025 MECH CODE	OFFICE SPACE	1	12	0.8	15	-	VAV-2-5	1
OFFICE	256	RTU-2	115	2025 MECH CODE	OFFICE SPACE	1	12	0.8	15	-	VAV-2-2	1
OFFICE	257	RTU-2	115	2025 MECH CODE	OFFICE SPACE	1	12	0.8	15	-	VAV-2-2	1
OFFICE	258	RTU-2	115	2025 MECH CODE	OFFICE SPACE	1	12	0.8	15	-	VAV-2-2	1
CORRIDOR	260	RTU-2	350	2025 MECH CODE	CORRIDORS	0	21	0.8	26	-	MULTIPLE	1
EXECUTIVE CONFRENECE RM	140	RTU-3	350	2025 MECH CODE	CONFERENCE/MEETING	10	79	0.8	99	-	VAV-3-3	0.9
ELEC ROOM	141	RTU-3	120	2025 MECH CODE	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	0	7	0.8	10	-	VAV-3-3	0.9
STORAGE	142	RTU-3	575	2025 MECH CODE	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	0	35	0.8	44	-	VAV-3-3	0.9
BOARD ROOM	143	RTU-3	1,700	2025 MECH CODE	CONFERENCE/MEETING	100	600	0.8	750	-	VAV-3-1 & VAV3-2	0.9

Plot Date: 8/19/2026 2:26:59 PM

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Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

No. PE038409
RAYMOND F. JOHNSON, II
8/29/26

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/26	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: CJP
DRAWN: CJP
CHECKED: NBN
CHECKED:
APPROVED: RFJ

FILENAME

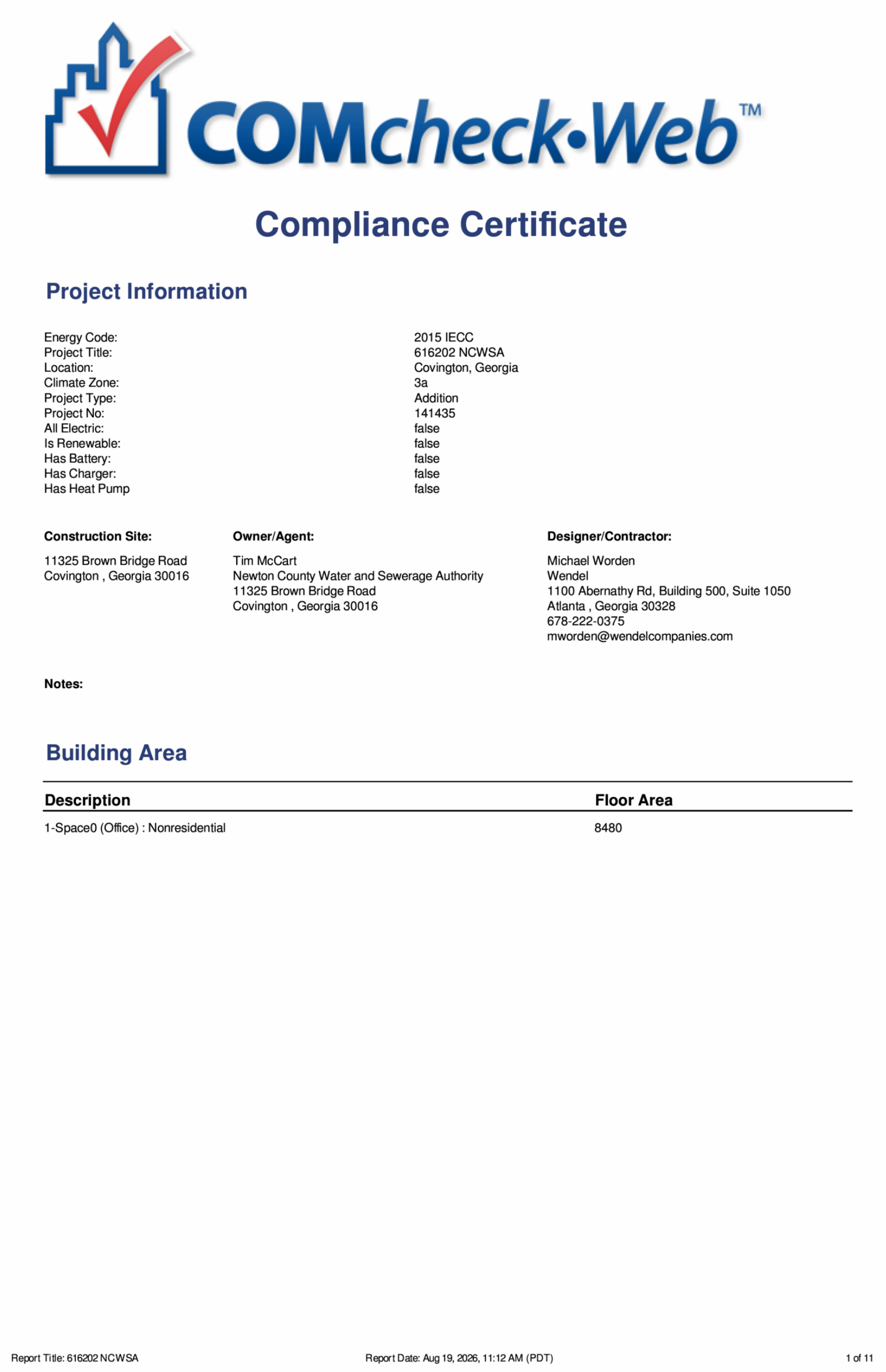
BC PROJECT NUMBER
Project Number

CLIENT PROJECT NUMBER

VENTILATION CALCULATIONS

DRAWING NUMBER
M601

ALPHA BLDG SET 09-01-2026



COMcheck-Web™

Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	616202 NCWSA
Location:	Covington, Georgia
Climate Zone:	3a
Project Type:	Addition
Project No:	141435
All Electric:	false
Is Renewable:	false
Has Battery:	false
Has Charger:	false
Has Heat Pump	false

Construction Site:
11325 Brown Bridge Road
Covington , Georgia 30016

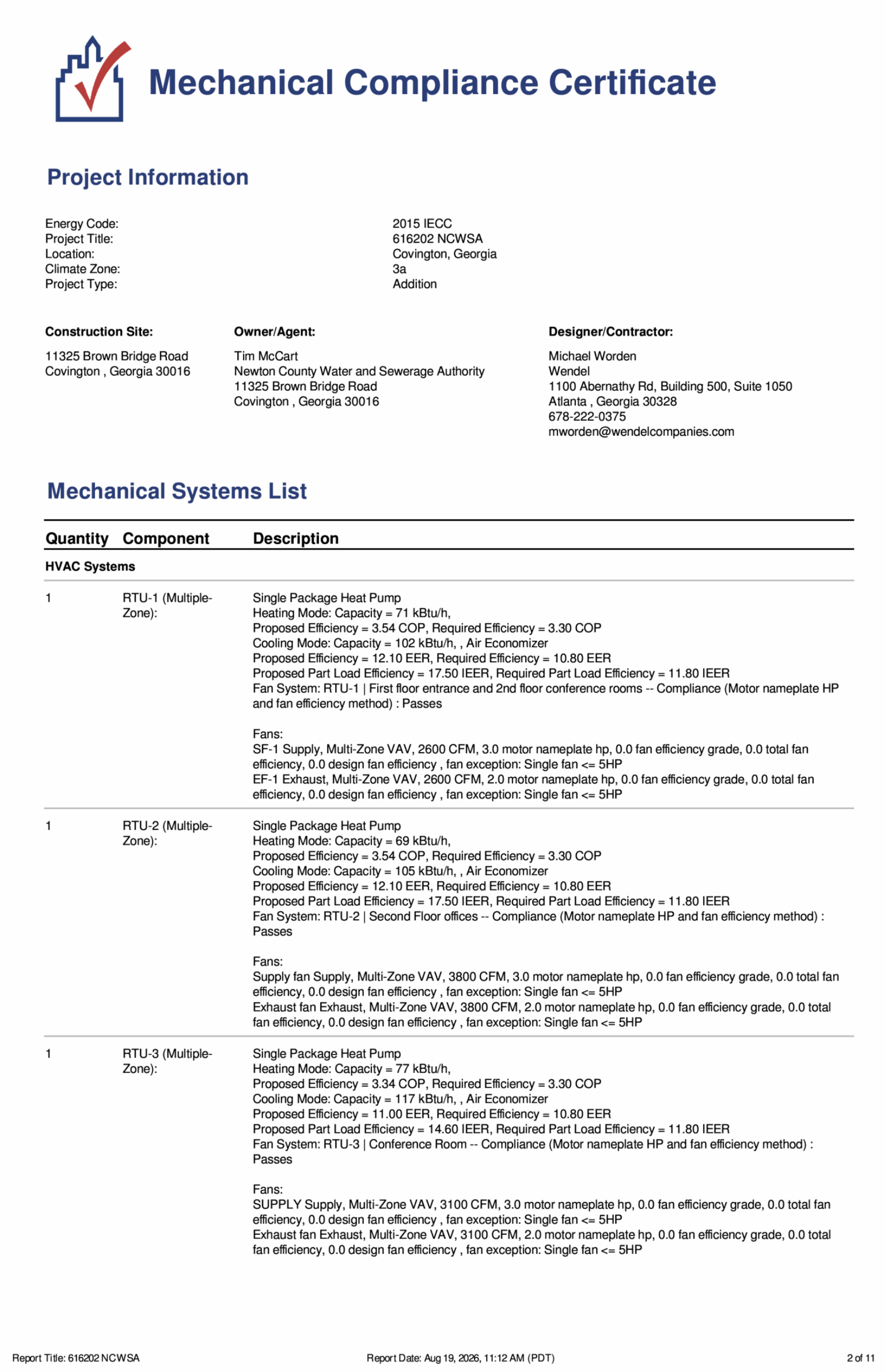
Owner/Agent:
Tim McCart
Newton County Water and Sewerage Authority
11325 Brown Bridge Road
Covington , Georgia 30016

Designer/Contractor:
Michael Worden
Wendel
1100 Abernathy Rd, Building 500, Suite 1050
Atlanta , Georgia 30328
678-222-0375
mworden@wendelcompanies.com

Notes:

Building Area

Description	Floor Area
1-Space0 (Office) : Nonresidential	8480



Mechanical Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	616202 NCWSA
Location:	Covington, Georgia
Climate Zone:	3a
Project Type:	Addition

Construction Site:
11325 Brown Bridge Road
Covington , Georgia 30016

Owner/Agent:
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Newton County Water and Sewerage Authority
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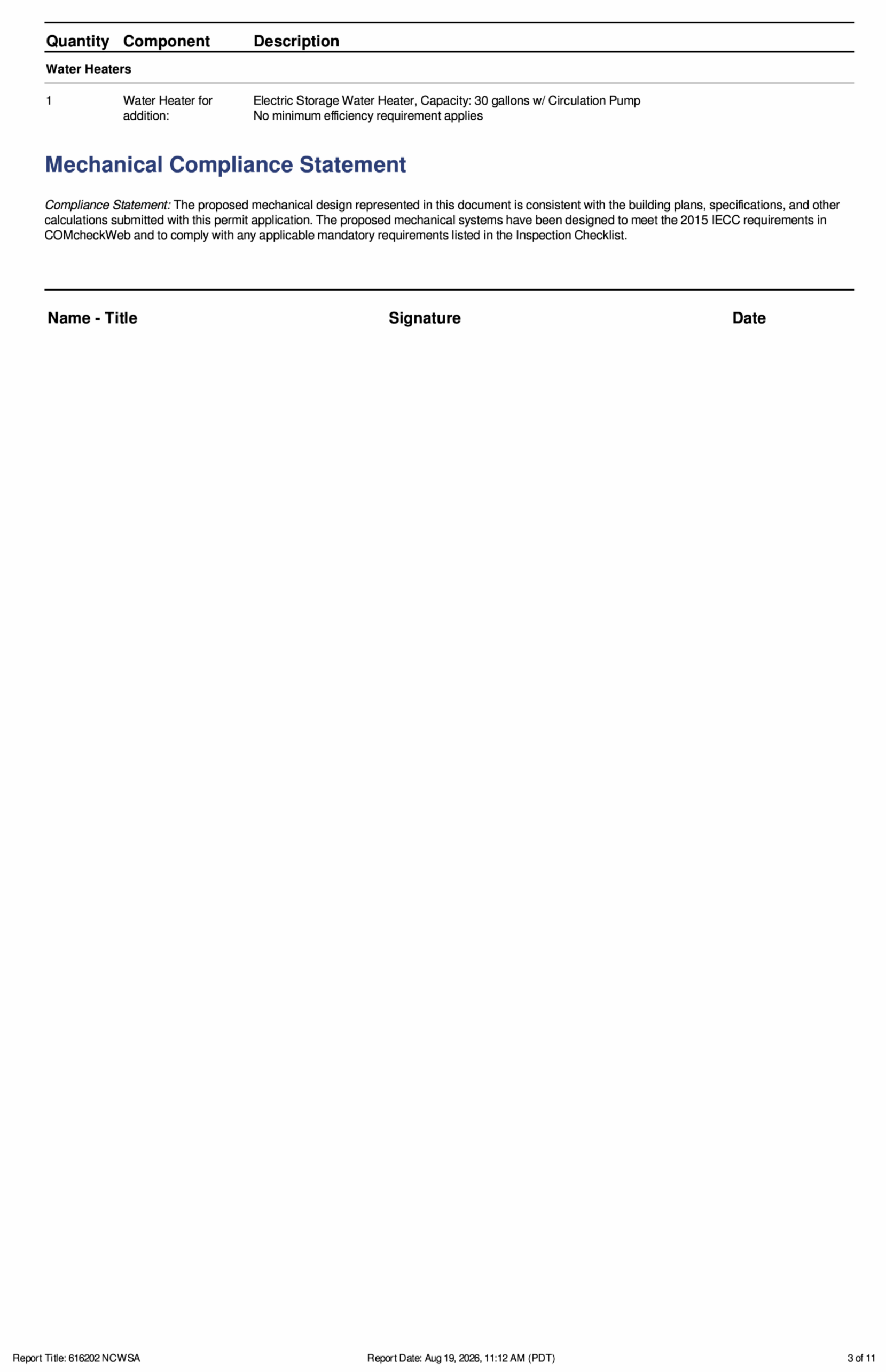
678-222-0375
mworden@wendelcompanies.com

Mechanical Systems List

Quantity	Component	Description
HVAC Systems		
1	RTU-1 (Multiple-Zone):	Single Package Heat Pump Heating Mode: Capacity = 71 kBtu/h, Proposed Efficiency = 3.54 COP, Required Efficiency = 3.30 COP Cooling Mode: Capacity = 102 kBtu/h, , Air Economizer Proposed Efficiency = 12.10 EER, Required Efficiency = 10.80 EER Proposed Part Load Efficiency = 17.50 IEER, Required Part Load Efficiency = 11.80 IEER Fan System: RTU-1 | First floor entrance and 2nd floor conference rooms -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: SF-1 Supply, Multi-Zone VAV, 2600 CFM, 3.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP EF-1 Exhaust, Multi-Zone VAV, 2600 CFM, 2.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP
1	RTU-2 (Multiple-Zone):	Single Package Heat Pump Heating Mode: Capacity = 69 kBtu/h, Proposed Efficiency = 3.54 COP, Required Efficiency = 3.30 COP Cooling Mode: Capacity = 105 kBtu/h, , Air Economizer Proposed Efficiency = 12.10 EER, Required Efficiency = 10.80 EER Proposed Part Load Efficiency = 17.50 IEER, Required Part Load Efficiency = 11.80 IEER Fan System: RTU-2 | Second Floor offices -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: Supply fan Supply, Multi-Zone VAV, 3800 CFM, 3.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP Exhaust fan Exhaust, Multi-Zone VAV, 3800 CFM, 2.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP
1	RTU-3 (Multiple-Zone):	Single Package Heat Pump Heating Mode: Capacity = 77 kBtu/h, Proposed Efficiency = 3.34 COP, Required Efficiency = 3.30 COP Cooling Mode: Capacity = 117 kBtu/h, , Air Economizer Proposed Efficiency = 11.00 EER, Required Efficiency = 10.80 EER Proposed Part Load Efficiency = 14.60 IEER, Required Part Load Efficiency = 11.80 IEER Fan System: RTU-3 | Conference Room -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: SUPPLY Supply, Multi-Zone VAV, 3100 CFM, 3.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP Exhaust fan Exhaust, Multi-Zone VAV, 3100 CFM, 2.0 motor nameplate hp, 0.0 fan efficiency grade, 0.0 total fan efficiency, 0.0 design fan efficiency , fan exception: Single fan <= 5HP

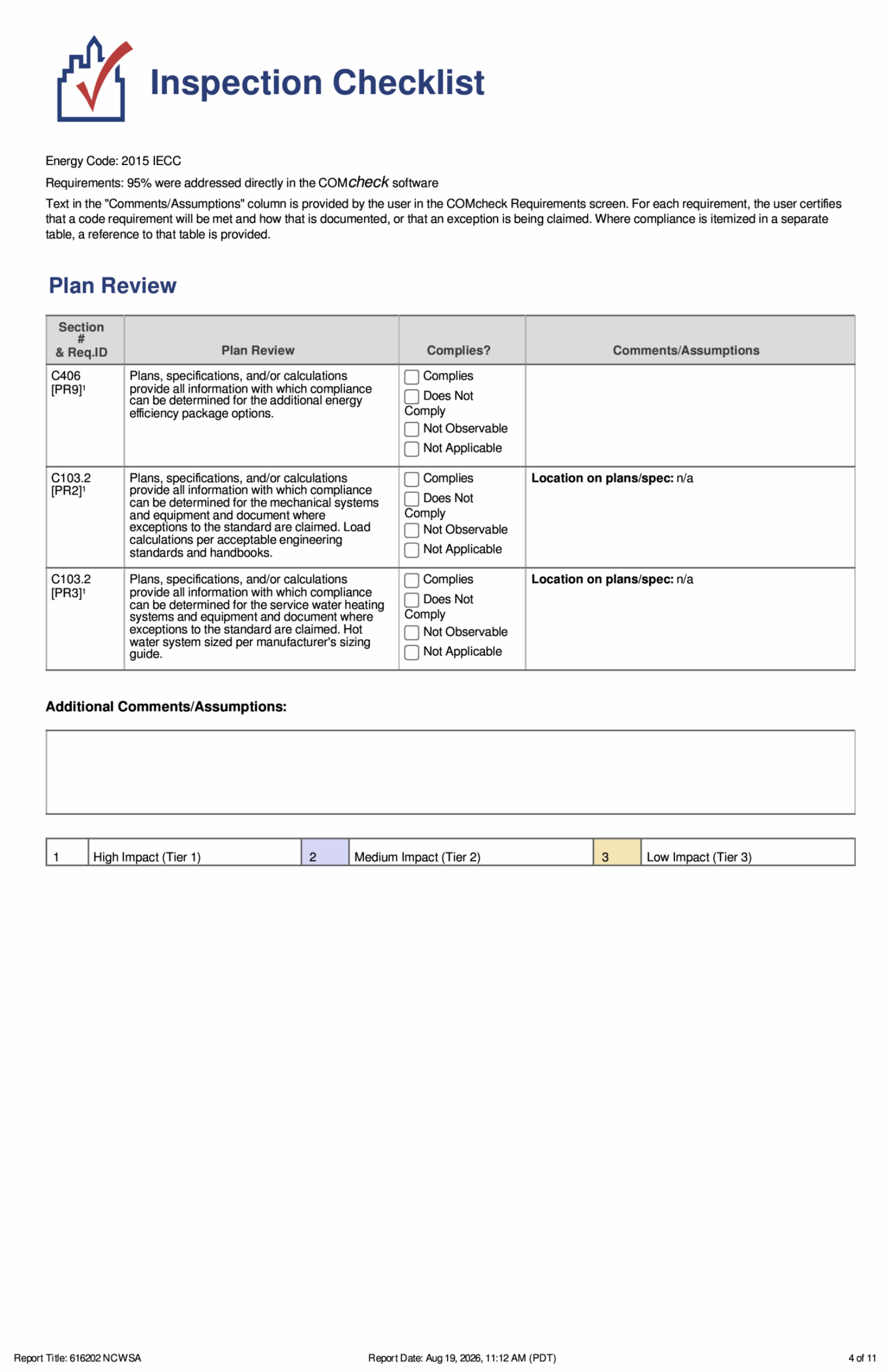


Quantity	Component	Description
Water Heaters		
1	Water Heater for addition:	Electric Storage Water Heater, Capacity: 30 gallons w/ Circulation Pump No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title **Signature** **Date**



Inspection Checklist

Energy Code: 2015 IECC

Requirements: 95% were addressed directly in the COM*check* software

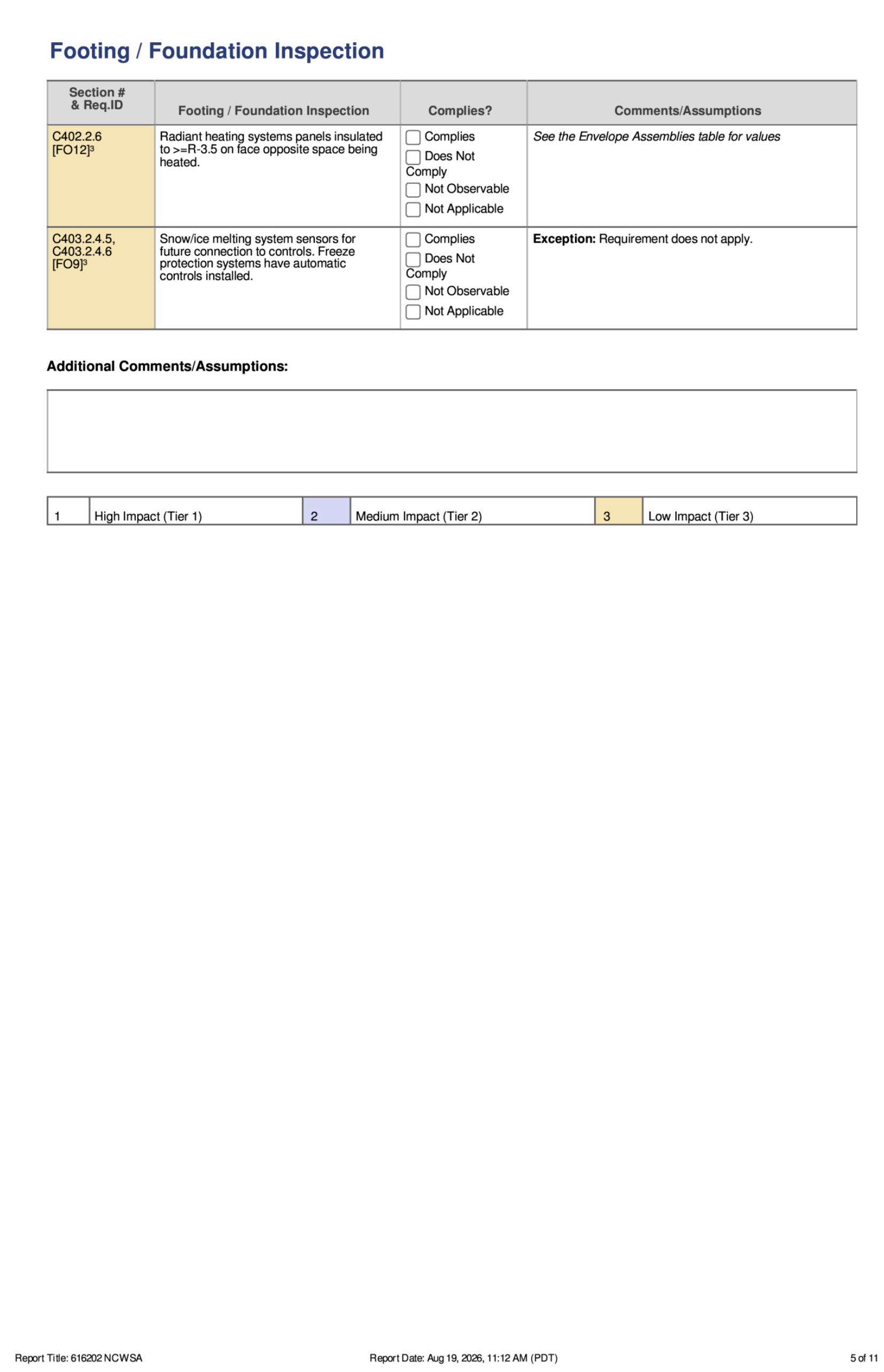
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Plan Review

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C406 [PR9]^{1}	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C103.2 [PR2]^{1}	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** n/a
C103.2 [PR3]^{1}	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** n/a

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

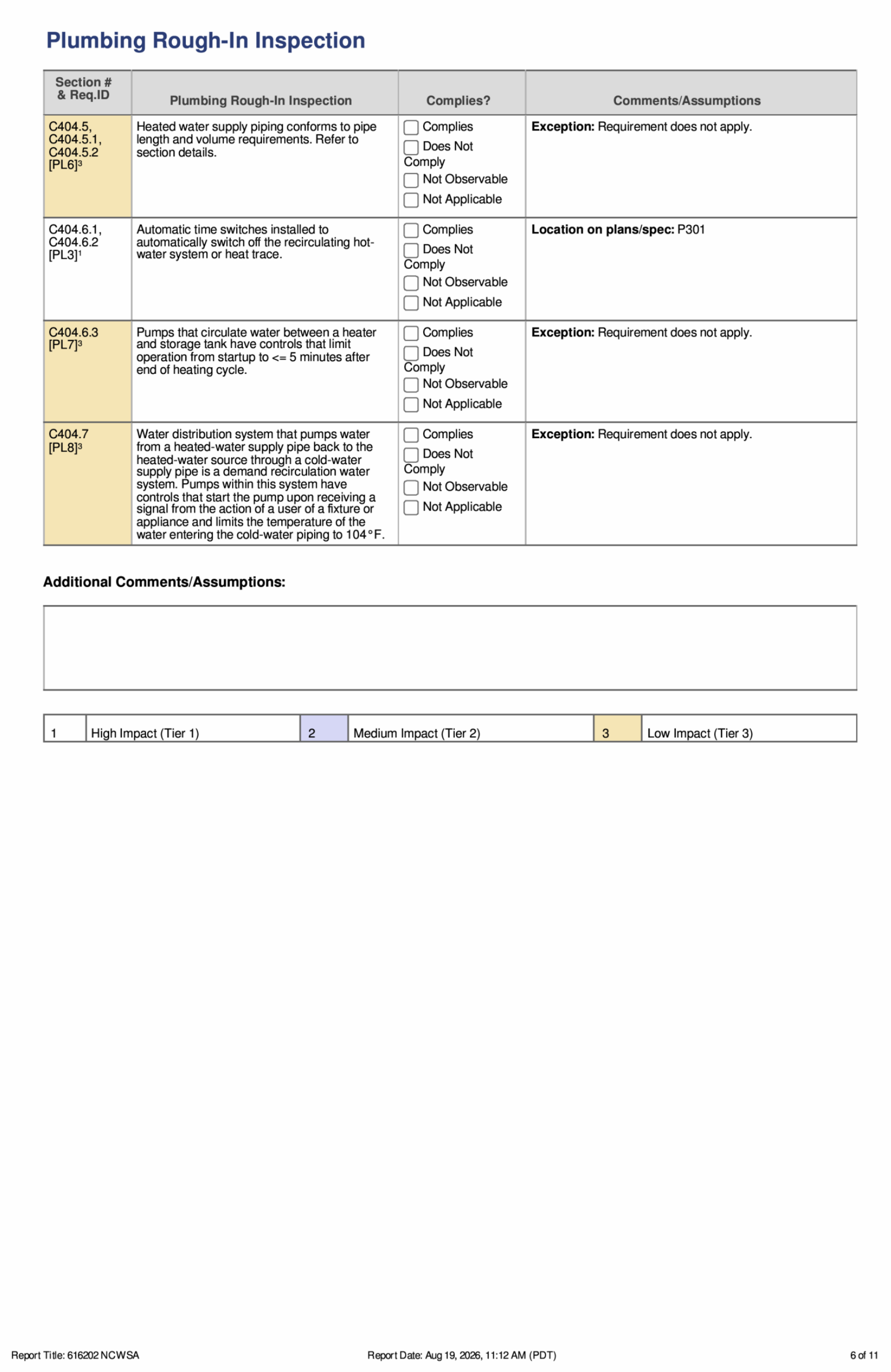


Footing / Foundation Inspection

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C402.2.6 [FO12]^{3}	Radiant heating systems panels insulated to >=R-3.5 on face opposite space being heated.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	*See the Envelope Assemblies table for values*
C403.2.4.5, C403.2.4.6 [FO9]^{3}	Snow/ice melting system sensors for future connection to controls. Freeze protection systems have automatic controls installed.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

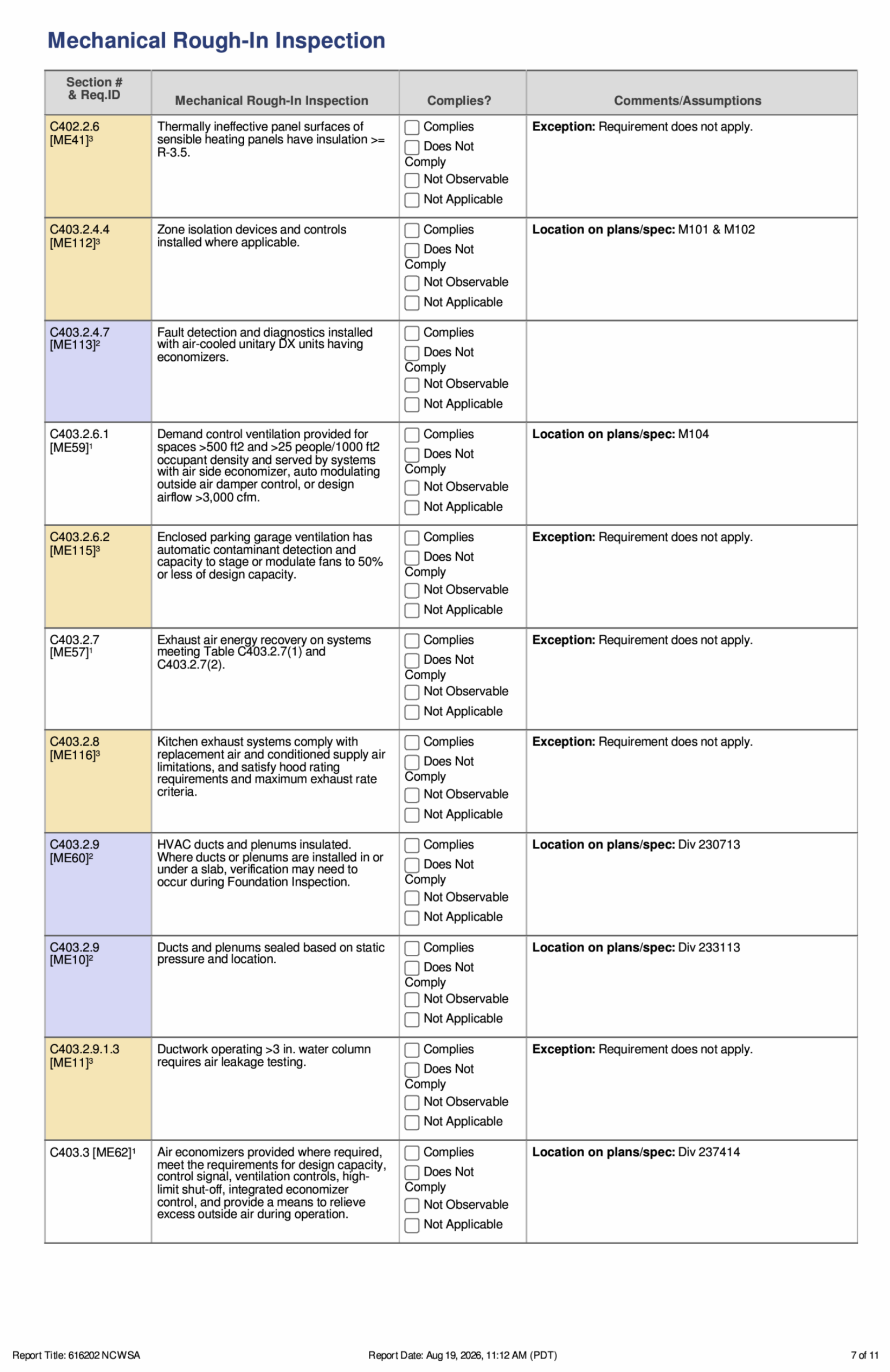


Plumbing Rough-In Inspection

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6]^{3}	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C404.6.1, C404.6.2 [PL3]^{1}	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** P301
C404.6.3 [PL7]^{3}	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C404.7 [PL8]^{3}	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.

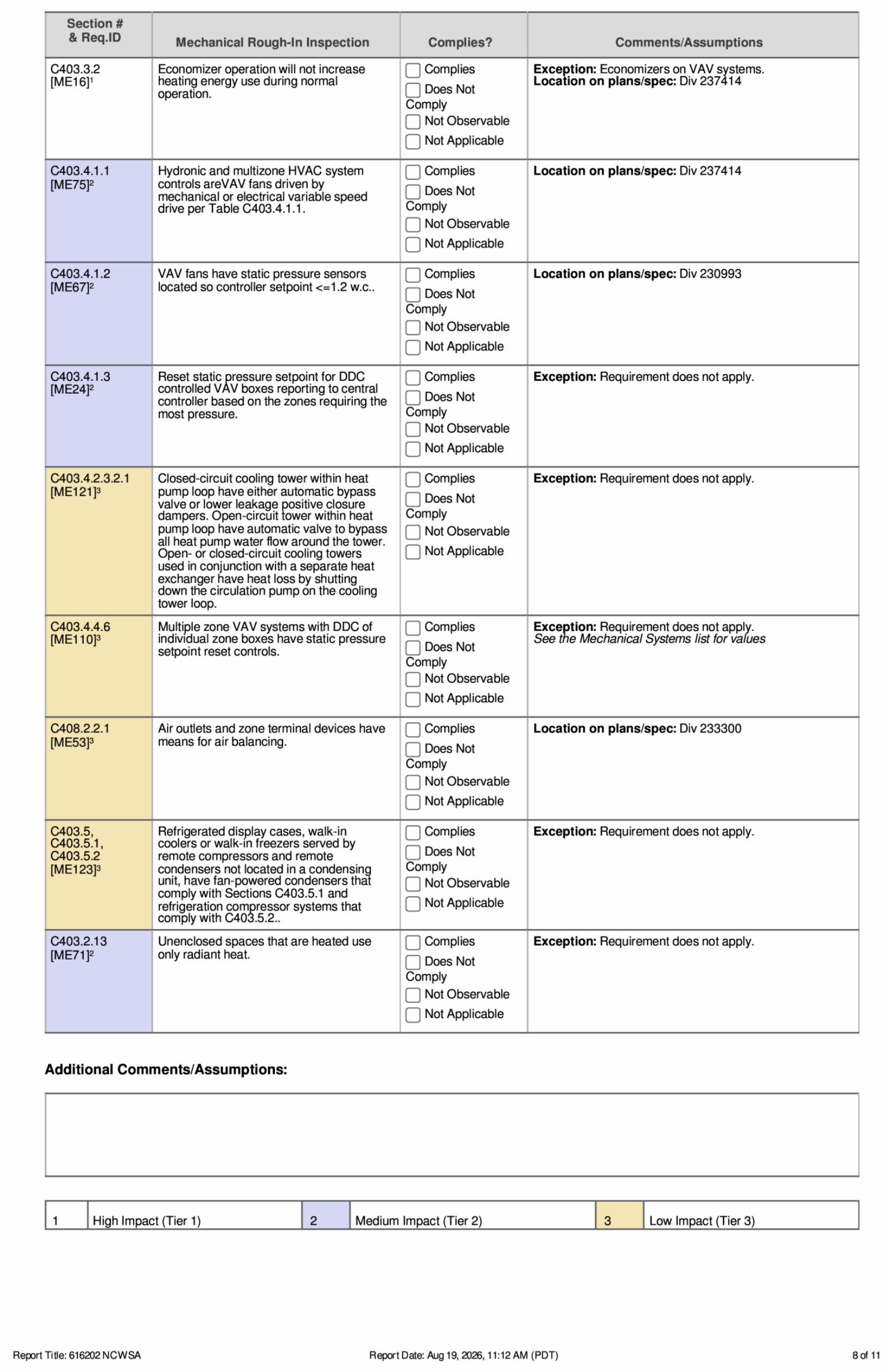
Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)



Mechanical Rough-In Inspection

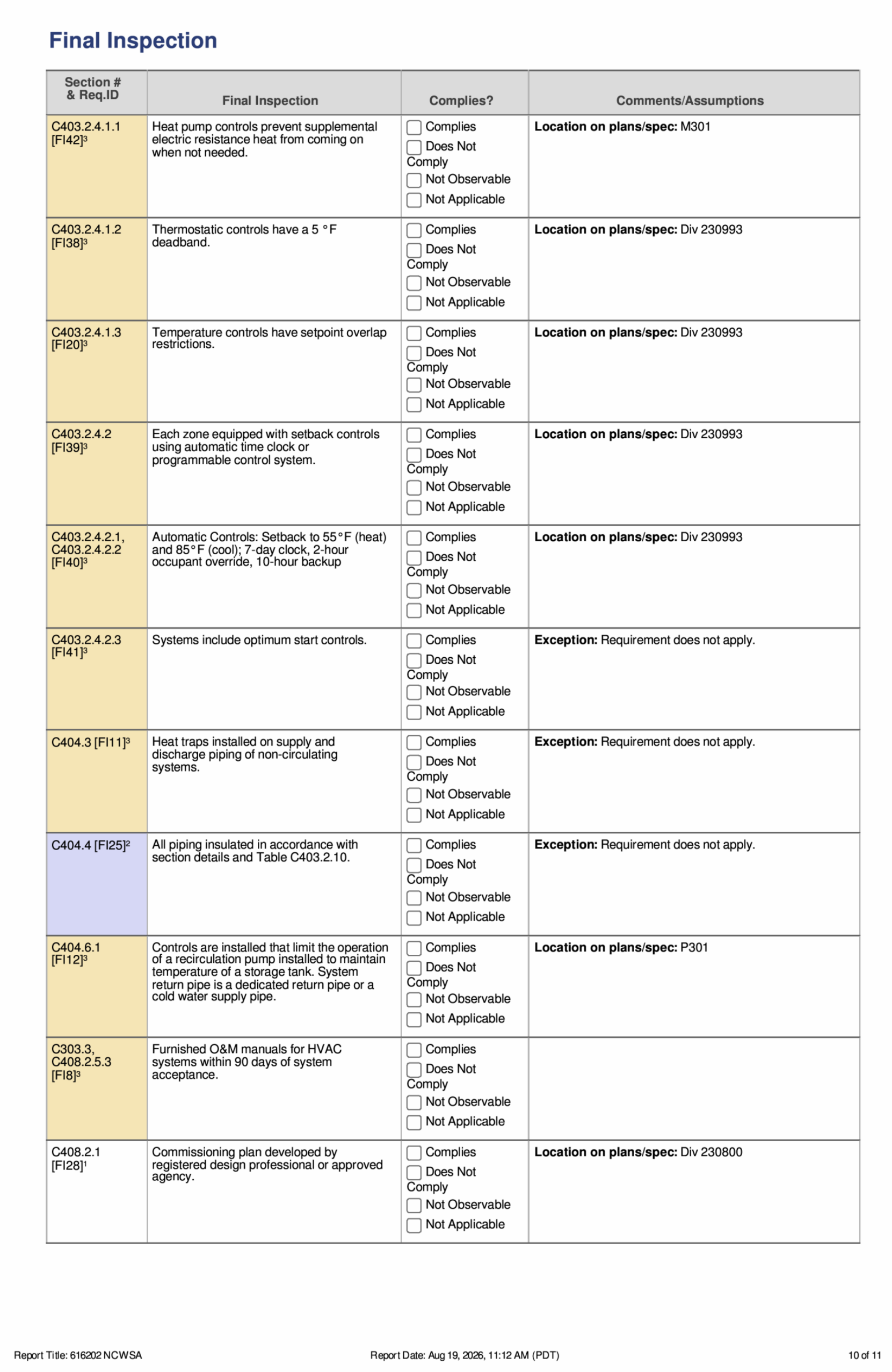
Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41]^{3}	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.2.4.4 [ME112]^{3}	Zone isolation devices and controls installed where applicable.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M101 & M102
C403.2.4.7 [ME113]^{2}	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.2.6.1 [ME59]^{1}	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M104
C403.2.6.2 [ME115]^{3}	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.2.7 [ME57]^{1}	Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.2.8 [ME116]^{3}	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.2.9 [ME60]^{2}	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 230713
C403.2.9 [ME10]^{2}	Ducts and plenums sealed based on static pressure and location.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 233113
C403.2.9.1.3 [ME11]^{3}	Ductwork operating >3 in. water column requires air leakage testing.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.3 [ME62]^{1}	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 237414



Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.3.2 [ME16]^{1}	Economizer operation will not increase heating energy use during normal operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Economizers on VAV systems. **Location on plans/spec:** Div 237414
C403.4.1.1 [ME75]^{2}	Hydronic and multizone HVAC system controls areVAV fans driven by mechanical or electrical variable speed drive per Table C403.4.1.1.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 237414
C403.4.1.2 [ME67]^{2}	VAV fans have static pressure sensors located so controller setpoint <=1.2 w.c..	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 230993
C403.4.1.3 [ME24]^{2}	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.4.2.3.2.1 [ME121]^{3}	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.4.4.6 [ME110]^{3}	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply. *See the Mechanical Systems list for values*
C408.2.2.1 [ME53]^{3}	Air outlets and zone terminal devices have means for air balancing.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 233300
C403.5, C403.5.1, C403.5.2 [ME123]^{3}	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2..	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C403.2.13 [ME71]^{2}	Unenclosed spaces that are heated use only radiant heat.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.

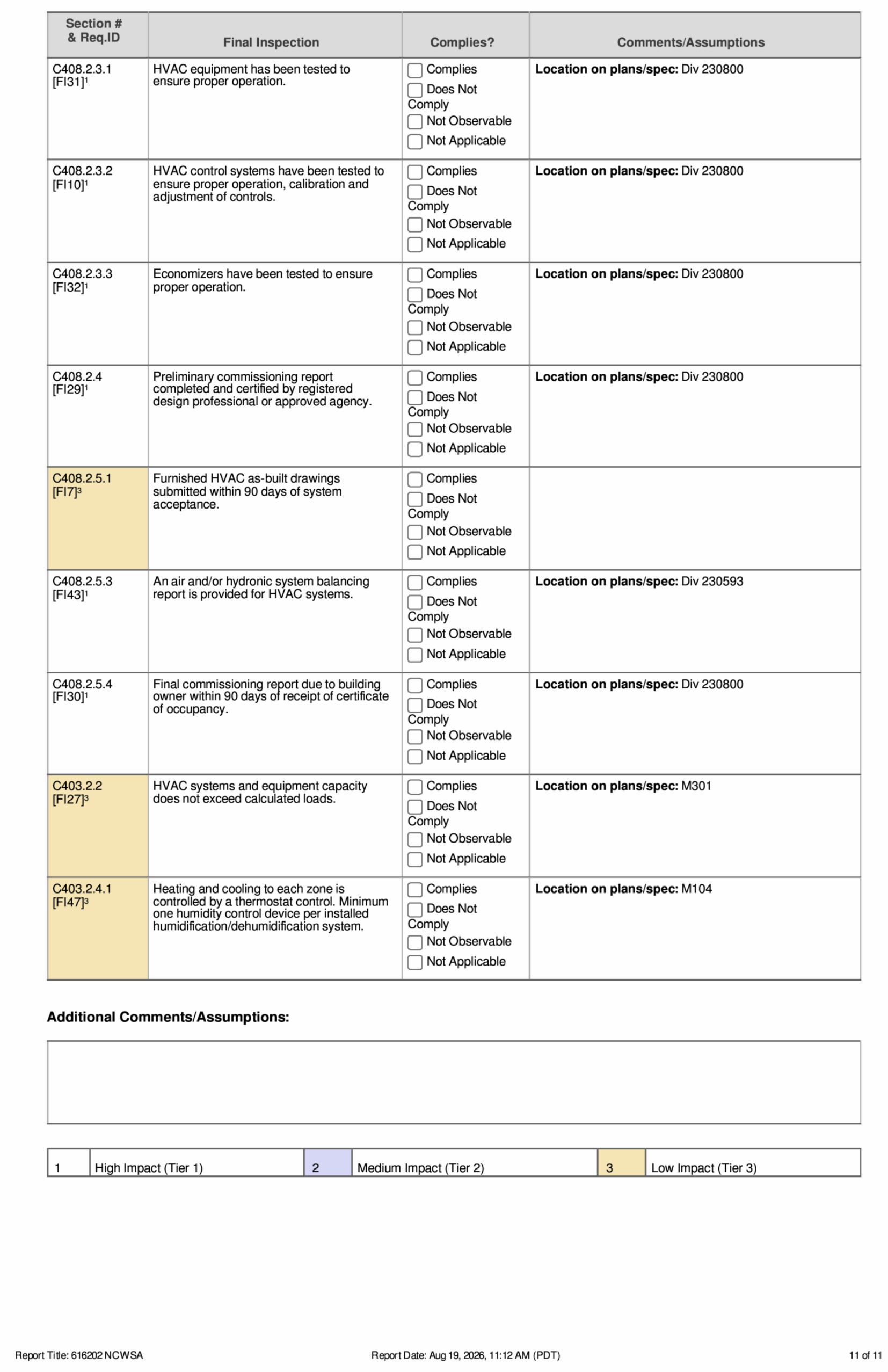
Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)



Final Inspection

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.2.4.1.1 [FI42]^{3}	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M301
C403.2.4.1.2 [FI38]^{3}	Thermostatic controls have a 5 °F deadband.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 230993
C403.2.4.1.3 [FI20]^{3}	Temperature controls have setpoint overlap restrictions.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 230993
C403.2.4.2 [FI39]^{3}	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 230993
C403.2.4.2.1, C403.2.4.2.2 [FI40]^{3}	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 230993
C403.2.4.2.3 [FI41]^{3}	Systems include optimum start controls.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C404.3 [FI11]^{3}	Heat traps installed on supply and discharge piping of non-circulating systems.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C404.4 [FI25]^{2}	All piping insulated in accordance with section details and Table C403.2.10.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Exception:** Requirement does not apply.
C404.6.1 [FI12]^{3}	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** P301
C303.3, C408.2.5.3 [FI8]^{3}	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.1 [FI28]^{1}	Commissioning plan developed by registered design professional or approved agency.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 230800



Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.3.1 [FI31]^{1}	HVAC equipment has been tested to ensure proper operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 230800
C408.2.3.2 [FI10]^{1}	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 230800
C408.2.3.3 [FI32]^{1}	Economizers have been tested to ensure proper operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 230800
C408.2.4 [FI29]^{1}	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 230800
C408.2.5.1 [FI7]^{3}	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.5.3 [FI43]^{1}	An air and/or hydronic system balancing report is provided for HVAC systems.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 230593
C408.2.5.4 [FI30]^{1}	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** Div 230800
C403.2.2 [FI27]^{3}	HVAC systems and equipment capacity does not exceed calculated loads.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M301
C403.2.4.1 [FI47]^{3}	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	**Location on plans/spec:** M104

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

1

Path: Autodesk Docs://NCWSA Admin Bldg_V25/616202-NCWSA-MECH_V25.rvt

Plot Date: 8/19/2026 2:27:02 PM

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

No. PE038409
RAYMOND F. JOHNSON, II
8/20/26

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/26	AHJ COMMENTS

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: CJP
DRAWN: CJP
CHECKED: NBN
CHECKED:
APPROVED: RFJ

FILENAME

BC PROJECT NUMBER
Project Number

CLIENT PROJECT NUMBER

COMCHECK COMPLIANCE

DRAWING NUMBER
M602

SYMBOLS & ABBREVIATIONS SCHEDULE

RECEPTACLES

LP2,12	DUPLEX RECEPTACLE OUTLET, 18" A.F.F., TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
LP2,12	GFCI RECEPTACLE OUTLET, 18" A.F.F., TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
LP2,12	DUPLEX RECEPTACLE OUTLET, 18" AFF., TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & DEDICATED BRANCH CIRCUIT THAT IT IS CONNECTED TO. RECEPTACLE SHALL BE SUPPLIED BY A GFCI CIRCUIT BREAKER. PROVIDE LABEL ON COVER "PROTECTED BY GFCI"
LP2,12	INDICATES (2) TAMPER RESISTANT, 20 AMP, COMMERCIAL GRADE RECEPTACLES IN 2-GANG BOX UNDER A COMMON MATCHING COVERPLATE. RECEPTACLES SHALL BE GROUNDING TYPE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
LP2,12	(2) GFCI RECEPTACLE OUTLETS, 18" A.F.F., TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE IN 2-GANG BACKBOX WITH MATCHING COMMON COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
LP2,10,12	RANGE OR DRYER OUTLET VERIFY RECEPTACLE NEMA CONFIGURATION, RATING & INSTALLATION HEIGHT WITH SELECTED EQUIPMENT SUPPLIER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO. COVER PLATES SHALL BE STAINLESS STEEL.
LP2,12	SPECIAL PURPOSE RECEPTACLE AS CALLED FOR ON DRAWINGS OR AS REQUIRED BY EQUIPMENT MANUFACTURER. VERIFY NEMA CONFIGURATION. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
LP2,12	FLOOR MOUNTED RECEPTACLE AS CALLED FOR ON DRAWINGS OR AS REQUIRED BY EQUIPMENT MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE RECESSED IN CONCRETE WITH A METAL COVER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
WALL → J FLOOR → Ⓙ	PROVIDE COMPLETE ELECTRICAL POWER CONNECTION TO MODULAR FURNITURE. WHIP TO BE PROVIDED WITH FURNITURE. CONNECTION SHALL INCLUDE MINIMUM WALL OR FLOOR JUNCTION BOX, WIRING TO CIRCUIT INDICATED, FINAL CONNECTION TO APPROPRIATE FURNITURE GROUP.
FB1 LP2,12	TYPE #1 FLOOR BOX WITH (1) DUPLEX RECEPTACLE . UNLESS OTHERWISE NOTED, PROVIDE RECESSED IN CONCRETE WITH A METAL COVER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.

POWER

J	WALL MOUNTED JUNCTION BOX, SIZE AS INDICATED OR PROVIDE MINIMUM SIZE REQUIRED BY LATEST EDITION OF NATIONAL ELECTRICAL CODE (NFPA 70-NEC).
Ⓙ	CEILING MOUNTED JUNCTION BOX, SIZE AS INDICATED OR PROVIDE MINIMUM SIZE REQUIRED BY LATEST EDITION OF NATIONAL ELECTRICAL CODE (NFPA 70-NEC).
⊗	PROVIDE COMPLETE ELECTRICAL CONNECTION TO EQUIPMENT INDICATED (INCLUDING DISCONNECT, CONDUCTORS, RACEWAY, & OTHER REQUIRED HARDWARE. XX-X INDICATES EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
⊗	PROVIDE COMPLETE ELECTRICAL CONNECTION TO MOTOR INDICATED (INCLUDING DISCONNECT, STARTER, CONDUCTORS, RACEWAY, & OTHER REQUIRED HARDWARE. XX-X INDICATES EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
⊡	EMERGENCY POWER OFF BUTTON (EPO). PROVIDE WHERE INDICATED ON DRAWINGS. PROVIDE ALL REQUIRED INTERFACES AS CALLED FOR ON DRAWINGS OR REQUIRED BY EQUIPMENT MANUFACTURER.
TYPICAL WALL	ELECTRICAL PANELBOARD, SURFACE MOUNTED. UNLESS OTHERWISE NOTED, INSTALL AT 72" A.F.F. TO THE TOP OF THE BOX.
TYPICAL WALL	ELECTRICAL PANELBOARD, FLUSH MOUNTED. UNLESS OTHERWISE NOTED, INSTALL AT 72" A.F.F. TO THE TOP OF THE BOX.
	TYPICAL DISCONNECT (SAFETY SWITCH). REFER TO DRAWINGS FOR SIZE & ADDITIONAL FUSING REQUIREMENTS.
⊠	TYPICAL DRY-TYPE TRANSFORMER (SIZE MIGHT VARY). UNLESS OTHERWISE NOTED, PROVIDE FLOOR MOUNTED WITH CONCRETE EQUIPMENT PAD.
▭	ELECTRICAL PIECE OF EQUIPMENT. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.

DATA (SYSTEMS)

X ▼	DATA DROP LOCATION. UNLESS OTHERWISE NOTED, PROVIDE MINIMUM OF (2) CAT 6 CABLES & TERMINATIONS, INSTALL 18" AFF, EXTENSION RING & ASSOCIATED JACKS. PROVIDE 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE WITH COVERPLATE. ALL DATA CABLES SHALL BE PROPERLY TERMINATED AT BOTH ENDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
TV	TELEVISION CONNECTION DROP, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. PROVIDE COAX CABLE WITH DUPLEX RECEPTACLE UNDER THE SAME COVERPLATE. VERIFY EXACT HEIGHT OF OUTLET & RECEPTACLE PRIOR TO ROUGH-IN.
AV	A/V CONNECTION FOR WALL MOUNTED FLAT PANEL DISPLAY. PROVIDE CABLE TV WIRING, DATA PORT CABLE, HDMI CABLE TO THE FLOOR BOX. BOX SHALL INCLUDE A DUPLEX RECEPTACLE. EQUIPMENT SHALL BE LEGRAND HT2102-WH-V1 OR EQUAL
DATA-X WALL → J FLOOR → Ⓙ	PROVIDE DATA CABLING TO MODULAR OFFICE FURNITURE. SHALL INCLUDE WALL JUNCTION BOX OR FLOOR BOX, CONDUIT TO ACCESSIBLE SPACE. 'DATA-X' INDICATES NUMBER OF CABLES AT THIS LOCATION, UNLESS OTHERWISE NOTED, ROUTE DATA CABLES THROUGH THE FURNITURE & TERMINATE AT BOTH ENDS. COORDINATE DATA WIRING WITH FURNITURE INSTALLER.
	WIRELESS ACCESS POINT, CEILING MOUNTED. PROVIDE 4"X4" BOX ABOVE CEILING. EQUIPMENT AND WIRING PROVIDED BY OTHERS.

BRANCH CIRCUIT WIRING NOTES:

A. UNLESS OTHERWISE NOTED, MINIMUM HOMERUN (HOMERUN SHALL BE CONSIDERED TOTAL LENGTH FROM SOURCE TO LAST DEVICE ON THE CIRCUIT) CONDUCTORS FOR 20A/1P BRANCH CIRCUITS INCLUDING LIGHTING SHALL BE AS FOLLOWS:
- 1-100FT - #12 AWG
- 101-150FT - #10 AWG
- 151-250FT - #8 AWG
- 251-400FT - #6 AWG.
- 401 & LONGER - #4 AWG.

REDUCE CONDUCTORS SIZE TO A MAXIMUM CONDUCTOR SIZE THAT THE LOAD TERMINALS CAN ACCOMMODATE, REDUCED SIZE NOT LONGER THAN ONE FOOT. INCREASE RACEWAY SIZE AS NEEDED PER NEC, FOR THE LARGER SIZES OF CONDUCTORS.

REMOVAL (TYPICAL FOR ALL DEVICES):

XXXcd X	TYPICAL POWER & SYSTEMS DEVICE SCHEDULED FOR REMOVAL. DISCONNECT & REMOVE ALL ASSOCIATED ELECTRICAL WORK AS INDICATED ON CONTRACT DOCUMENTS. REINSTALL AS REQUIRED
	TYPICAL LUMINAIRE SCHEDULED FOR REMOVAL. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.

REMOVAL NOTES:
NOT ALL DEVICES SCHEDULED FOR REMOVAL ARE SHOWN ON THIS SCHEDULE. ALL DEVICES TO BE REMOVED ARE MARKED WITH THE SAME LINETYPE & LINE WEIGHT AS SYMBOLS ABOVE. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION.

EXISTING TO REMAIN (TYPICAL FOR ALL DEVICES):

XXXcd (ETR) (ETR) X (ETR) (ETR)	TYPICAL POWER & SYSTEMS DEVICE EXISTING TO REMAIN IN PLACE.
(ETR) (ETR) (ETR) (ETR)	EXISTING LUMINAIRE SCHEDULED TO REMAIN IN PLACE. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.

EXISTING TO REMAIN NOTES:
NOT ALL EXISTING DEVICES SCHEDULED TO REMAIN ARE SHOWN ON THIS SCHEDULE. ALL DEVICES SCHEDULED TO REMAIN ARE MARKED WITH THE SAME LINETYPE & LINE WEIGHT AS SYMBOLS ABOVE. REFER TO FLOOR PLAN DRAWINGS FOR ADDITIONAL INFORMATION.

POWER ONE-LINE

Δ	POWER TRANSFORMER, DELTA PRIMARY, WYE SECONDARY OR AS INDICATED. PROVIDE ALL REQUIRED GROUNDING.
XXAF / XXAT	MOLDED CASE CIRCUIT BREAKER. AF INDICATES FRAME SIZE, AT INDICATES TRIP SETTING
XXAF / XXAT	DRAWOUT TYPE CIRCUIT BREAKER. AF INDICATES FRAME SIZE, AT INDICATES TRIP SETTING
XXAS / XXAF XXAS / XXAF	DISCONNECT SWITCH & FUSIBLE SWITCH. XXAS INDICATES SWITCH AMPERE SIZE XXAF INDICATES FUSE AMPERE SIZE
XX A	FUSE, XX A INDICATES FUSE SIZE IN AMPERES.
1PP1 225 MLO 208Y/120V 3-PHASE 4-WIRE	PANELBOARD
E N	TRANSFER SWITCH.
GFP	GROUND FAULT PROTECTION.
SPD	SURGE PROTECTION.
PQM	POWER QUALITY METER.
DVM	DIGITAL VOLT METER.
65000	AVAILABLE FAULT CURRENT TAG (AMPS)

GENERAL NOTES: (FOR ALL DRAWINGS)

A. THE DRAWINGS ARE DIAGRAMMATIC & INDICATE GENERALLY THE LOCATIONS OF THE MATERIAL & EQUIPMENT. THESE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE.

B. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION & OPERATION, SHALL BE INCLUDED IN THE CONTRACTOR'S BID, THE SAME AS IF HEREIN SPECIFIED OR SHOWN.

C. ALL MATERIAL & INSTALLATION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE NATIONAL ELECTRIC CODE, LATEST EDITION OF LOCAL CODES, & ORDINANCES.

D. ALL CONDUITS ON EXPOSED WORK SHALL BE RUN AT RIGHT ANGLES TO, & PARALLEL WITH, THE SURROUNDING WALL & SHALL CONFORM TO THE FORM OF THE CEILING. DIAGONAL RUNS WILL NOT BE ALLOWED. BENDS IN PARALLEL CONDUIT RUNS SHALL BE CONCENTRIC. ALL CONDUIT SHALL RUN PERFECTLY STRAIGHT & TRUE.

E. ALL CONDUIT RUNS ARE TO BE CONCEALED IN WALLS, CEILINGS, OR IN THE SLAB. CONTRACTOR SHALL COORDINATE CONDUIT INSTALLATION DURING BUILDING CONSTRUCTION WITH OTHER TRADES. RUN SURFACE RACEWAY ONLY WHERE CALLED FOR OR SHOWN ON THE DRAWINGS. EXPOSED CONDUIT SHALL ONLY BE INSTALLED WHERE MEANS OF CONCEALING DOES NOT EXIST. CONTRACTOR IS TO NOTIFY ENGINEER & GET OWNERS APPROVAL PRIOR TO RUNNING EXPOSED CONDUITS.

F. INTERIOR RECEPTACLE & LIGHT FIXTURE BRANCH CIRCUITS SHALL BE IN EMT CONDUIT. A MAXIMUM OF (3) CIRCUITS CAN BE GROUPED TOGETHER IN A HOMERUN CONDUIT. EACH CIRCUIT SHALL HAVE SEPARATE NEUTRAL, GROUPING OF NEUTRALS SHALL NOT BE ACCEPTABLE. EACH CIRCUIT SHALL ALSO HAVE A GROUND WIRE SIZED PER NEC. USING CONDUIT, OR MC CABLE AS GROUND PATH SHALL NOT BE ACCEPTABLE. CABLE MUST BE SUPPORTED PER NEC, GROUPING OF GROUND WIRES [(1) GROUND PER (3) CIRCUITS] IS ACCEPTABLE. MAXIMUM 6' LENGTH OF MC CABLE ALLOWED FOR A WHIP CONNECTION TO LUMINAIRE ONLY. EXTERIOR (OUTDOOR) RECEPTACLE & LIGHT FIXTURE BRANCH CIRCUITS SHALL BE IN RMC CONDUIT OR AS PERMITTED IN THE SPECIFICATIONS.

G. COORDINATE ALL LUMINAIRE & CEILING MOUNTED EQUIPMENT LOCATIONS & MOUNTING HARDWARE WITH ARCHITECTURAL CEILING PLANS PRIOR TO CONSTRUCTION.

H. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED COSTS FOR SEALING ALL PENETRATIONS THROUGH FIRE & SMOKE WALLS USING UL APPROVED SEALANT & METHODS.

I. ALL COMMUNICATIONS OUTLET LOCATIONS ARE DIAGRAMMATIC & MUST BE FIELD VERIFIED WITH OWNER'S FURNITURE LOCATIONS PRIOR TO CONSTRUCTION. NO EXTRA COMPENSATION WILL BE GIVEN FOR FAILURE TO VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.

J. UNLESS OTHERWISE NOTED, PROVIDE ALL NEW RACEWAYS. USE SURFACE RACEWAY ONLY WHERE INDICATED ON THE PLANS. IF CONTRACTOR INTENDS TO UTILIZE SURFACE RACEWAY IN AREAS OTHER THOSE INDICATED ON PLANS, PRIOR APPROVAL IS REQUIRED FROM ENGINEER & OWNER.

K. CONTRACTOR MAY REUSE EXISTING CONCEALED CONDUIT UNLESS OTHERWISE NOTED ON THE PLANS.

L. ALL RECEWAYS CROSSING BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.

M. CONTRACTOR SHALL PROVIDE INFORMATION LABELS ON ALL RECEPTACLES, PANELBOARDS, JUNCTION BOXES, WALL SWITCHES, & DISCONNECT SWITCHES. LABELS SHALL BE PHENALIC TYPE WITH BLACK BACKGROUND & WHITE ENGRAVED LETTERING. LABEL SHALL INDICATED CIRCUIT/FEEDER SOURCE & EQUIPMENT ID NAME.

ABBREVIATIONS:

WP	INDICATES WEATHERPROOF DEVICE OR EQUIPMENT
WG	INDICATES DEVICE SHALL HAVE WIRE GUARD PROTECTION
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
(ETR)	EXISTING EQUIPMENT SHALL REMAIN IN PLACE
OC	OVER COUNTER (INSTALL 12" ABOVE COUNTER HEIGHT)
UC	UNDER COUNTER (INSTALL 18" ABOVE FINISHED FLOOR)
VNAC	VISUAL NOTIFICATION APPLIANCE CIRCUIT
ANAC	AUDIO NOTIFICATION APPLIANCE CIRCUIT
SLC	SIGNALING LINE CIRCUIT
ATS	AUTOMATIC TRANSFER SWITCH
HP	HORSEPOWER
kW	KILOWATT
kVA	KILOVOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
EM	EMERGENCY
NL	NIGHTLIGHT (TYPICAL FOR LIGHTING, 'ON' ALL THE TIME)
LTG	LIGHTING
CPWR	CONTINUOUS LOAD (POWER)
PWR	POWER
EH	ELECTRIC HEAT
KIT	KITCHEN EQUIPMENT
LMTR	LARGEST MOTOR
EQP	SHOP EQUIPMENT
NEC	NATIONAL ELECTRICAL CODE
MLO	MAIN LUGS ONLY
MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAGE

GENERAL SYMBOLS NOTE:

THIS SYMBOLS & ABBREVIATIONS SCHEDULE IS FOR THE ELECTRICAL CONTRACTOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS SCHEDULE DOES NOT IMPLY INCLUSION AND / OR EXCLUSION OF ANY PARTICULAR ITEM FROM THE PROJECT.

ALPHA BLDG SET 09-01-2026

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

No. PE046069
JESSE F. WENDELL
08/20/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MAP
DRAWN: MAP
CHECKED: JFW
CHECKED:
APPROVED:

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

ELECTRICAL

SYMBOLS, NOTES, AND ABBREVIATIONS

DRAWING NUMBER
E001

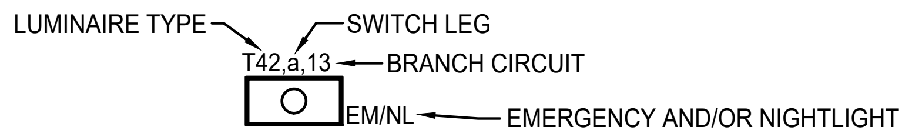
SYMBOLS & ABBREVIATIONS SCHEDULE

LIGHTING

(REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION, LUMINAIRE SYMBOLS ARE SHOWN TO INDICATE GENERAL SHAPE & SIZE, ACTUAL SYMBOLS MY VARY)

T42,a,13 ☐	LUMINAIRE (RECESSED). REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD.
S42,b,12 ☒	LUMINAIRE (SURFACE OR PENDANT MOUNTED). REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD.
A4 c 17 A8 c 17	RECESSED DOWNLIGHT. REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD
AW4 d 19 AW8 d 19	RECESSED WALLWASHER. REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD
EM EM EM EM	EMERGENCY LUMINAIRE, PROVIDE LUMINAIRE TYPE AS INDICATED. REFER TO PLANS & SPECIFICATIONS FOR ADDITIONAL INFORMATION.
K$^{III}_{abc}$	WALL LIGHT SWITCH, ROMAN NUMERAL INDICATES NUMBER OF SWITCHES GANGED UNDER ONE COVERPLATE. LOWER CASE LETTERS INDICATE SWITCHING. PROVIDE WITH MATCHING COVERPLATES "K" - KEYED SWITCH. "3" - 3-WAY "4" - 4-WAY "WP" - WATERPROOF (IP66 MINIMUM)
$^{III}_{abc}$	WALL MOUNTED DIMMER CONTROLLER (LED OR FLUORESCENT). ROMAN NUMERAL INDICATES NUMBER OF SWITCHES GANGED UNDER COMMON COVERPLATE. LOWER CASE LETTERS INDICATE SWITCHING. UNLESS OTHERWISE NOTED, PROVIDE 0-10VDC. COORDINATE & PROVIDE ANY ADDITIONAL WIRING REQUIREMENTS.
OS	LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR (AUTO ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING & 360° VIEW CAPABILITY. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER.
OS	WALL MOUNTED OCCUPANCY SENSOR (AUTO ON, AUTO OFF) TYPE SWITCH.
OS	LOW VOLTAGE CORNER MOUNTED OCCUPANCY SENSOR WITH DUAL TECHNOLOGY SENSING. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER.
VS	LOW VOLTAGE CEILING MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING & 360° VIEW CAPABILITY. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER. REPLACE EXISTING WALL SWITCHES WITH LOW VOLTAGE (MOMENTARY CONTACT TYPE) & MODIFY EXISTING WIRING AS REQUIRED.
VS	WALL MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) TYPE SWITCH.
VS	LOW VOLTAGE CORNER MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS, LOW VOLTAGE SWITCHING & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER. REPLACE EXISTING WALL SWITCHES WITH LOW VOLTAGE (MOMENTARY CONTACT TYPE) & MODIFY EXISTING WIRING AS REQUIRED.
PC	DAYLIGHT HARVESTING PHOTOCELL. PROVIDE COMPLETE WITH ALL REQUIRED MOUNTING HARDWARE & INTERCONNECTION TO CONTROLLER AS SPECIFIED. LOCATE IN ROOM PER MANUFACTURERS REQUIREMENTS.
10'-0"	LUMINAIRE MOUNTING HEIGHT TAG. INDICATES THE HEIGHT THAT THE BOTTOM OF LUMINAIRE SHALL BE INSTALLED IN THE ASSOCIATED ROOM.
	TYPICAL SITE LUMINAIRE (EXACT SYMBOL MAY VARY). SHALL INCLUDE LUMINAIRE HEAD, POLE, & CONCRETE BASE. REFER TO LUMINAIRE SCHEDULE & SITE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
	EMERGENCY LUMINAIRE UNIT, SHALL BE WITH BATTERY BACKUP. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. BATTERY CAPACITY SHALL MEET OR EXCEED MINIMUM OPERATION TIME REQUIRED BY CODES.
⊗	EXIT SIGN (LED TYPE), SHALL PROVIDED WITH INTEGRAL BATTERY BACKUP. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. VERIFY SHEVRON DIRECTION IN FIELD, PROVIDE AS REQUIRED. BATTERY CAPACITY SHALL MEET OR EXCEED MINIMUM OPERATION TIME REQUIRED BY CODE.

TYPICAL LUMINAIRE NOTATION



SECURITY & ACCESS CONTROL (SYSTEMS)

	CCTV CAMERA, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. PROVIDE 4"X4" BOX AND 2" CONDUIT ROUTED TO ACCESSIBLE AREA. EQUIPMENT AND WIRING TO BE PROVIDED BY OTHERS.

FIRE ALARM

EL	FIRE ALARM SYSTEM SMOKE SENSOR. (CEILING MOUNTED) PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. (ROUND-CEILING MOUNTED, SQUARE-WALL MOUNTED). TAG 'EL' INDICATES SMOKE DETECTORS SHALL BE PROGRAMMED FOR ELEVATOR RECALL.
	FIRE ALARM SYSTEM HEAT DETECTOR. UNLESS OTHERWISE NOTED, PROVIDE COMBINATION FIXED (135°F) & RATE-OF-RISE (15° PER MINUTE) TYPE DEVICE. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
F 190°F	FIRE ALARM SYSTEM HEAT DETECTOR. PROVIDE WITH FIXED TEMPERATURE SENSING ELEMENT (190°F OR AS OTHERWISE NOTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
CO CO	CARBON MONOXIDE DETECTOR. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
WALL MOUNTED IR UV	FLAME DETECTOR, CEILING MOUNTED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. TAG INDICATES UV OR IR TECHNOLOGY.
	FIRE ALARM SYSTEM DUCT DETECTOR. PROVIDE COMPLETE INSTALLATION INCLUDING SAMPLING TUBES EXTENDING THE FULL WIDTH OF DUCT. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
TS	FIRE ALARM SYSTEM REMOTE TEST STATION. PROVIDE WHERE INDICATED ON DRAWING & INTERFACE WITH DETECTION DEVICE INDICATED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
F	FIRE ALARM SYSTEM MANUAL PULL STATION. PROVIDE COMPLETE INSTALLATION WITH PROTECTIVE COVER WHERE REQUIRED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
RECEIVER TRANSMITTER	FIRE ALARM SYSTEM BEAM DETECTOR TRANSMITTER & RECEIVER SYSTEM. PROVIDE COMPLETE INSTALLATION INCLUDING REMOTE TEST STATION. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM WATER FLOW SWITCH. PROVIDE COMPLETE INTERFACE BETWEEN FLOW SWITCH & FIRE ALARM CONTROL PANEL. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
	FIRE ALARM SYSTEM TAMPER SWITCH. PROVIDE COMPLETE INTERFACE BETWEEN TAMPER SWITCH & FIRE ALARM CONTROL PANEL. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
XXXcd	FIRE ALARM SYSTEM AUDIO/VISUAL NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 15cd VISUAL DEVICE.
XXXcd	FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 15cd VISUAL DEVICE.
	FIRE ALARM SYSTEM AUDIO NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
XXXcd	FIRE ALARM SYSTEM AUDIO/VISUAL NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 75cd VISUAL DEVICE.
XXXcd	FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 75cd VISUAL DEVICE.
	FIRE ALARM SYSTEM AUDIO NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
FA	FIRE ALARM SYSTEM WATER FLOW ALARM INTERFACE. PROVIDE COMPLETE ELECTRICAL INTERFACE TO ALARM (PROVIDED & INSTALLED BY SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
ZAM	FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
CZAM	FIRE ALARM SYSTEM CONTROLLABLE ZONE ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
IAM	FIRE ALARM SYSTEM INDIVIDUAL ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
FSR	FIRE ALARM SYSTEM FAN SHUT-DOWN RELAY. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. CONTACT RATING SHALL MATCH FAN MOTOR FEEDER RATING. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
ISO	FIRE ALARM SYSTEM ISOLATION MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. INSTALL EVERY 25TH INITIATING DEVICE ON SLC LOOP. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
F	FIRE ALARM SYSTEM ELECTROMAGNETIC DOOR HOLDER. VERIFY REQUIRED VOLTAGE PRIOR TO ORDERING. PROVIDE COMPLETE INTERFACE TO FACP AS REQUIRED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
FACP	TYPICAL FIRE ALARM CONTROL PANEL. SURFACE OR FLUSH MOUNTED. PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE DEDICATED 120VAC, 20A/1P CIRCUIT ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
NACP	FIRE ALARM NOTIFICATION APPLIANCE CONTROL PANEL (POWER SUPPLY). PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE DEDICATED 120VAC, 20A/1P CIRCUIT ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.
R.A.	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL. PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE INTERFACE TO FACP ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

ALPHA BLDG SET 09-01-2026

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900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

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No. PE046069
JESSE F. WENDELL
08/20/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: MAP
DRAWN: MAP
CHECKED: JFW
CHECKED:
APPROVED:

FILENAME

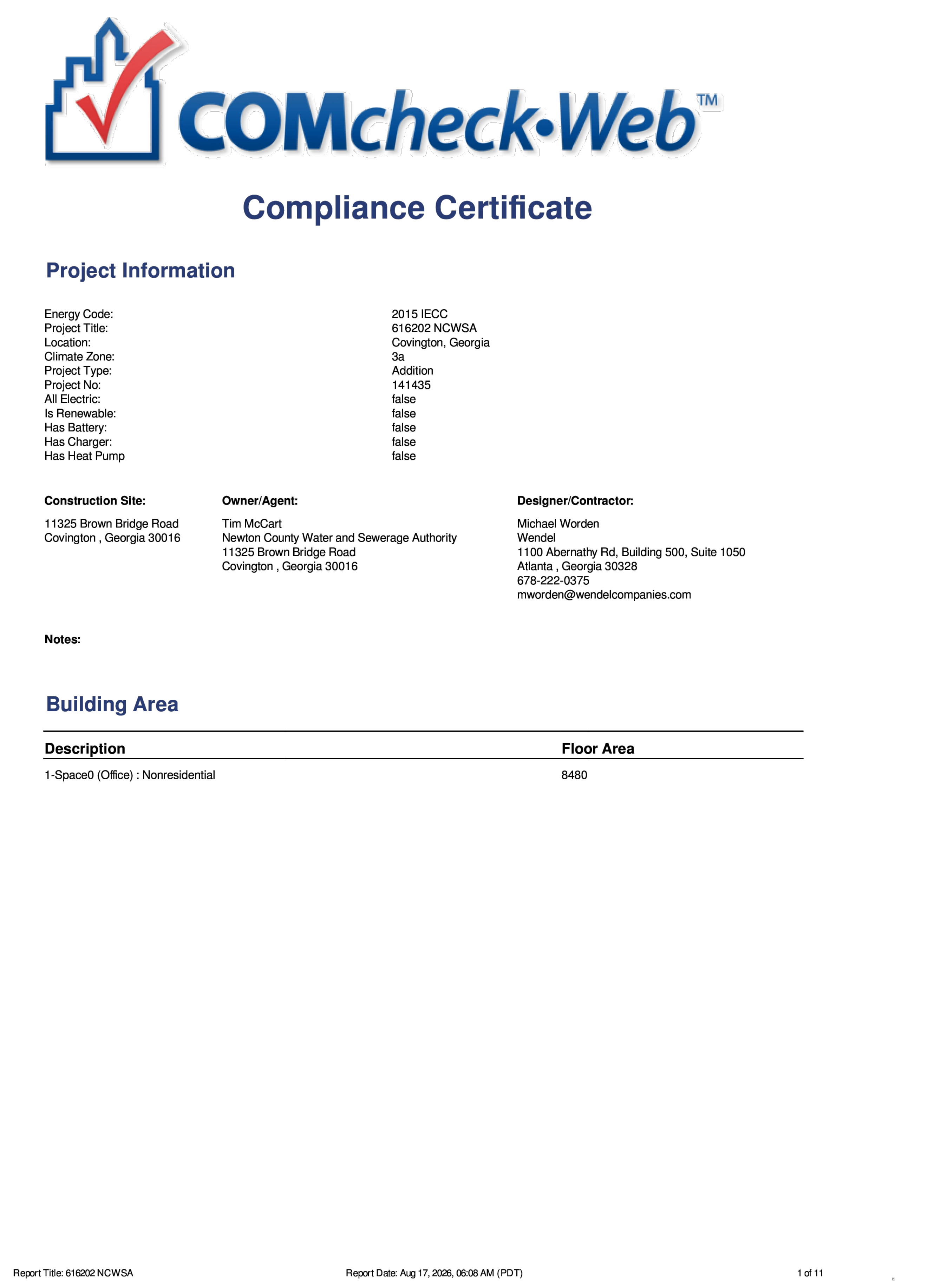
BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

ELECTRICAL

SYMBOLS, NOTES, AND ABBREVIATIONS

DRAWING NUMBER
E002



COMcheck-Web

Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	616202 NCWSA
Location:	Covington, Georgia
Climate Zone:	3a
Project Type:	Addition
Project No:	141435
All Electric:	false
Is Renewable:	false
Has Battery:	false
Has Charger:	false
Has Heat Pump	false

Construction Site:
11325 Brown Bridge Road
Covington , Georgia 30016

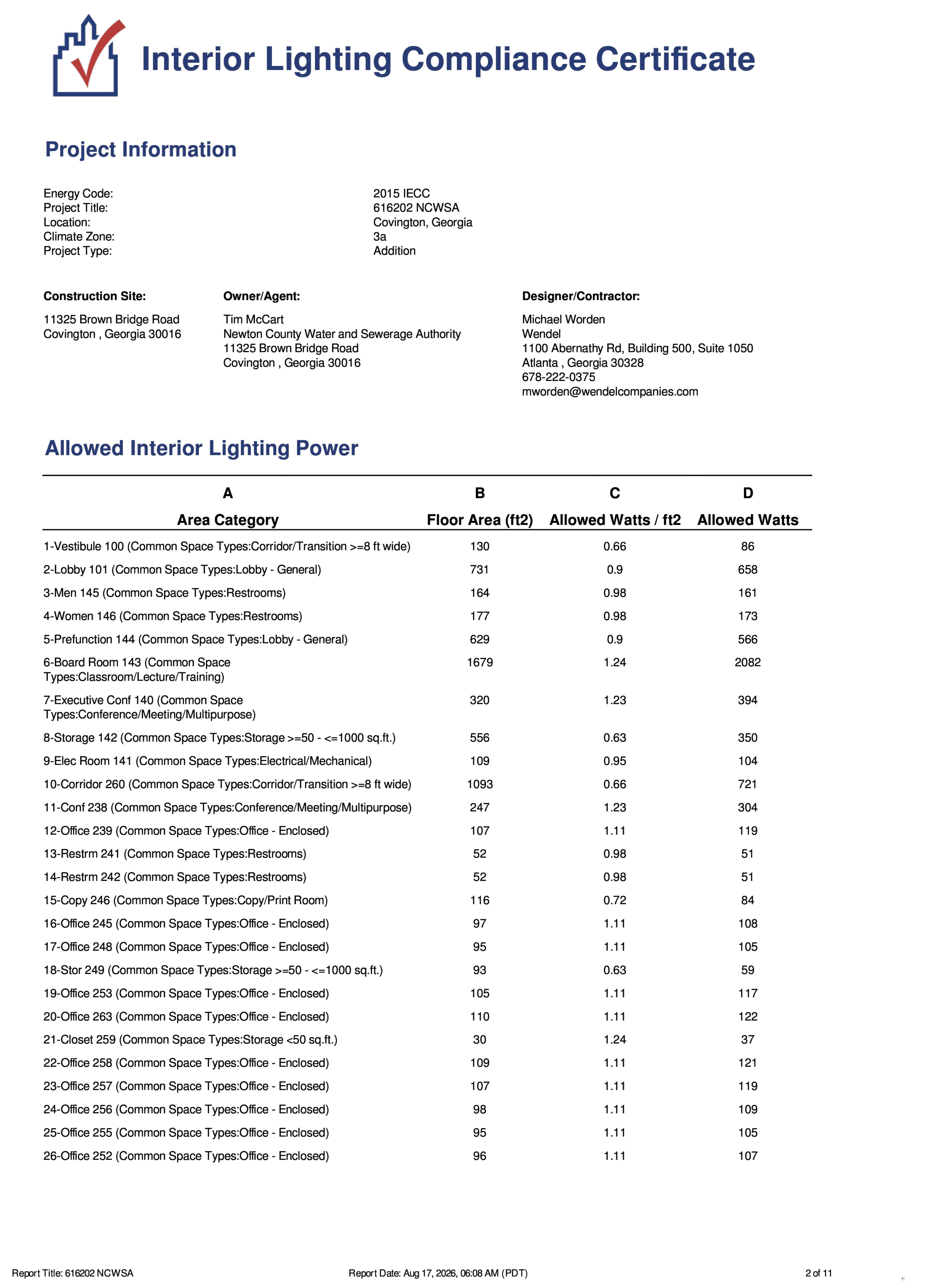
Owner/Agent:
Tim McCart
Newton County Water and Sewerage Authority
11325 Brown Bridge Road
Covington , Georgia 30016

Designer/Contractor:
Michael Worden
Wendel
1100 Abernathy Rd, Building 500, Suite 1050
Atlanta , Georgia 30328
678-222-0375
mworden@wendelcompanies.com

Notes:

Building Area

Description	Floor Area
1-Space0 (Office) : Nonresidential	8480



Interior Lighting Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	616202 NCWSA
Location:	Covington, Georgia
Climate Zone:	3a
Project Type:	Addition

Construction Site:
11325 Brown Bridge Road
Covington , Georgia 30016

Owner/Agent:
Tim McCart
Newton County Water and Sewerage Authority
11325 Brown Bridge Road
Covington , Georgia 30016

Designer/Contractor:
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1100 Abernathy Rd, Building 500, Suite 1050
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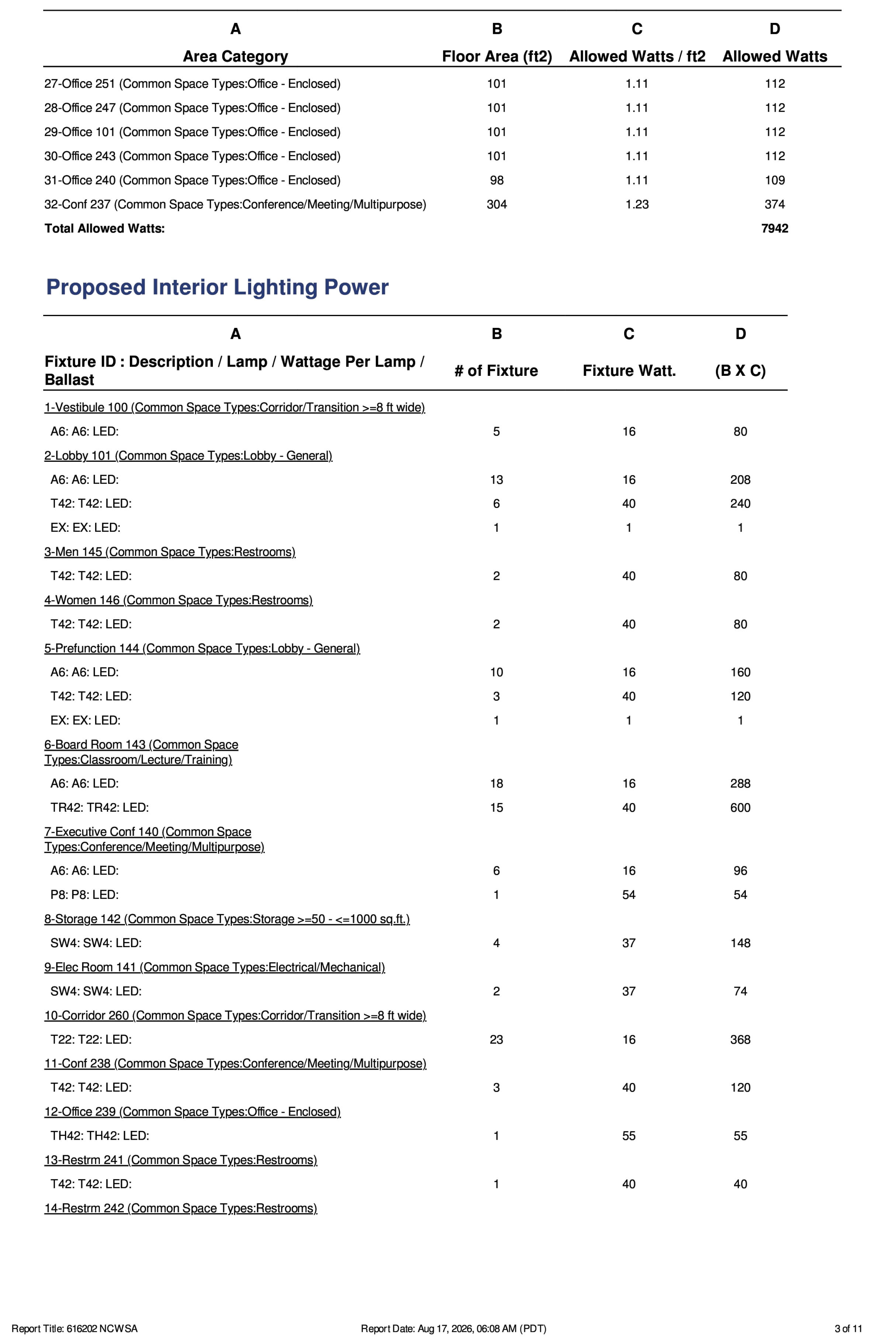
Allowed Interior Lighting Power

A	B	C	D
Area Category	**Floor Area (ft2)**	**Allowed Watts / ft2**	**Allowed Watts**
1-Vestibule 100 (Common Space Types:Corridor/Transition >=8 ft wide)	130	0.66	86
2-Lobby 101 (Common Space Types:Lobby - General)	731	0.9	658
3-Men 145 (Common Space Types:Restrooms)	164	0.98	161
4-Women 146 (Common Space Types:Restrooms)	177	0.98	173
5-Prefunction 144 (Common Space Types:Lobby - General)	629	0.9	566
6-Board Room 143 (Common Space Types:Classroom/Lecture/Training)	1679	1.24	2082
7-Executive Conf 140 (Common Space Types:Conference/Meeting/Multipurpose)	320	1.23	394
8-Storage 142 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	556	0.63	350
9-Elec Room 141 (Common Space Types:Electrical/Mechanical)	109	0.95	104
10-Corridor 260 (Common Space Types:Corridor/Transition >=8 ft wide)	1093	0.66	721
11-Conf 238 (Common Space Types:Conference/Meeting/Multipurpose)	247	1.23	304
12-Office 239 (Common Space Types:Office - Enclosed)	107	1.11	119
13-Restrm 241 (Common Space Types:Restrooms)	52	0.98	51
14-Restrm 242 (Common Space Types:Restrooms)	52	0.98	51
15-Copy 246 (Common Space Types:Copy/Print Room)	116	0.72	84
16-Office 245 (Common Space Types:Office - Enclosed)	97	1.11	108
17-Office 248 (Common Space Types:Office - Enclosed)	95	1.11	105
18-Stor 249 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	93	0.63	59
19-Office 253 (Common Space Types:Office - Enclosed)	105	1.11	117
20-Office 263 (Common Space Types:Office - Enclosed)	110	1.11	122
21-Closet 259 (Common Space Types:Storage <50 sq.ft.)	30	1.24	37
22-Office 258 (Common Space Types:Office - Enclosed)	109	1.11	121
23-Office 257 (Common Space Types:Office - Enclosed)	107	1.11	119
24-Office 256 (Common Space Types:Office - Enclosed)	98	1.11	109
25-Office 255 (Common Space Types:Office - Enclosed)	95	1.11	105
26-Office 252 (Common Space Types:Office - Enclosed)	96	1.11	107



A	B	C	D
Area Category	**Floor Area (ft2)**	**Allowed Watts / ft2**	**Allowed Watts**
27-Office 251 (Common Space Types:Office - Enclosed)	101	1.11	112
28-Office 247 (Common Space Types:Office - Enclosed)	101	1.11	112
29-Office 101 (Common Space Types:Office - Enclosed)	101	1.11	112
30-Office 243 (Common Space Types:Office - Enclosed)	101	1.11	112
31-Office 240 (Common Space Types:Office - Enclosed)	98	1.11	109
32-Conf 237 (Common Space Types:Conference/Meeting/Multipurpose)	304	1.23	374
Total Allowed Watts:			**7942**

Proposed Interior Lighting Power

A	B	C	D
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	**# of Fixture**	**Fixture Watt.**	**(B X C)**
1-Vestibule 100 (Common Space Types:Corridor/Transition >=8 ft wide)			
A6: A6: LED:	5	16	80
2-Lobby 101 (Common Space Types:Lobby - General)			
A6: A6: LED:	13	16	208
T42: T42: LED:	6	40	240
EX: EX: LED:	1	1	1
3-Men 145 (Common Space Types:Restrooms)			
T42: T42: LED:	2	40	80
4-Women 146 (Common Space Types:Restrooms)			
T42: T42: LED:	2	40	80
5-Prefunction 144 (Common Space Types:Lobby - General)			
A6: A6: LED:	10	16	160
T42: T42: LED:	3	40	120
EX: EX: LED:	1	1	1
6-Board Room 143 (Common Space Types:Classroom/Lecture/Training)			
A6: A6: LED:	18	16	288
TR42: TR42: LED:	15	40	600
7-Executive Conf 140 (Common Space Types:Conference/Meeting/Multipurpose)			
A6: A6: LED:	6	16	96
P8: P8: LED:	1	54	54
8-Storage 142 (Common Space Types:Storage >=50 - <=1000 sq.ft.)			
SW4: SW4: LED:	4	37	148
9-Elec Room 141 (Common Space Types:Electrical/Mechanical)			
SW4: SW4: LED:	2	37	74
10-Corridor 260 (Common Space Types:Corridor/Transition >=8 ft wide)			
T22: T22: LED:	23	16	368
11-Conf 238 (Common Space Types:Conference/Meeting/Multipurpose)			
T42: T42: LED:	3	40	120
12-Office 239 (Common Space Types:Office - Enclosed)			
TH42: TH42: LED:	1	55	55
13-Restrm 241 (Common Space Types:Restrooms)			
T42: T42: LED:	1	40	40
14-Restrm 242 (Common Space Types:Restrooms)			

ALPHA BLDG SET 09-01-2026

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

No. PE046069
JESSE F. WENDELL
08/20/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MAP
DRAWN: MAP
CHECKED: JFW
CHECKED:
APPROVED:

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

ELECTRICAL

COMCHECK

DRAWING NUMBER
E003

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B # of Fixture	C Fixture Watt.	D (B X C)
T42: T42: LED:	1	40	40
15-Copy 246 (Common Space Types:Copy/Print Room)			
TH42: TH42: LED:	1	55	55
16-Office 245 (Common Space Types:Office - Enclosed)			
TH42: TH42: LED:	1	55	55
17-Office 248 (Common Space Types:Office - Enclosed)			
TH42: TH42: LED:	1	55	55
18-Stor 249 (Common Space Types:Storage >=50 - <=1000 sq.ft.)			
SW4: SW4: LED:	1	37	37
19-Office 253 (Common Space Types:Office - Enclosed)			
TH42: TH42: LED:	1	55	55
20-Office 263 (Common Space Types:Office - Enclosed)			
TH42: TH42: LED:	1	55	55
21-Closet 259 (Common Space Types:Storage <50 sq.ft.)			
T22: T22: LED:	1	16	16
22-Office 258 (Common Space Types:Office - Enclosed)			
TH42: TH42: LED:	1	55	55
23-Office 257 (Common Space Types:Office - Enclosed)			
TH42: TH42: LED:	1	55	55
24-Office 256 (Common Space Types:Office - Enclosed)			
TH42: TH42: LED:	1	55	55
25-Office 255 (Common Space Types:Office - Enclosed)			
TH42: TH42: LED:	1	55	55
26-Office 252 (Common Space Types:Office - Enclosed)			
TH42: TH42: LED:	1	55	55
27-Office 251 (Common Space Types:Office - Enclosed)			
TH42: TH42: LED:	1	55	55
28-Office 247 (Common Space Types:Office - Enclosed)			
TH42: TH42: LED:	1	55	55
29-Office 101 (Common Space Types:Office - Enclosed)			
TH42: TH42: LED:	1	55	55
30-Office 243 (Common Space Types:Office - Enclosed)			
TH42: TH42: LED:	1	55	55
31-Office 240 (Common Space Types:Office - Enclosed)			
TH42: TH42: LED:	1	55	55
32-Conf 237 (Common Space Types:Conference/Meeting/Multipurpose)			
T42: T42: LED:	4	40	160
Total Proposed Watts:			**3891**

Proposed Interior Lighting Controls

Fixture	Lighting Control
1-Vestibule 100 (Common Space Types:Corridor/Transition >=8 ft wide)	
A6: A6: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
2-Lobby 101 (Common Space Types:Lobby - General)	
A6: A6: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
T42: T42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
EX: EX: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
3-Men 145 (Common Space Types:Restrooms)	
T42: T42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
4-Women 146 (Common Space Types:Restrooms)	
T42: T42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
5-Prefunction 144 (Common Space Types:Lobby - General)	
A6: A6: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
T42: T42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
EX: EX: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
6-Board Room 143 (Common Space Types:Classroom/Lecture/Training)	
A6: A6: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
TR42: TR42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
7-Executive Conf 140 (Common Space Types:Conference/Meeting/Multipurpose)	
A6: A6: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
P8: P8: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
8-Storage 142 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	
SW4: SW4: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
9-Elec Room 141 (Common Space Types:Electrical/Mechanical)	
SW4: SW4: LED:	Occupancy Sensor, Manual Control
10-Corridor 260 (Common Space Types:Corridor/Transition >=8 ft wide)	
T22: T22: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
11-Conf 238 (Common Space Types:Conference/Meeting/Multipurpose)	
T42: T42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
12-Office 239 (Common Space Types:Office - Enclosed)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
13-Restrm 241 (Common Space Types:Restrooms)	
T42: T42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
14-Restrm 242 (Common Space Types:Restrooms)	
T42: T42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
15-Copy 246 (Common Space Types:Copy/Print Room)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch
16-Office 245 (Common Space Types:Office - Enclosed)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
17-Office 248 (Common Space Types:Office - Enclosed)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
18-Stor 249 (Common Space Types:Storage >=50 - <=1000 sq.ft.)	
SW4: SW4: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
19-Office 253 (Common Space Types:Office - Enclosed)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
20-Office 263 (Common Space Types:Office - Enclosed)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
21-Closet 259 (Common Space Types:Storage <50 sq.ft.)	
T22: T22: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
22-Office 258 (Common Space Types:Office - Enclosed)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
23-Office 257 (Common Space Types:Office - Enclosed)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
24-Office 256 (Common Space Types:Office - Enclosed)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
25-Office 255 (Common Space Types:Office - Enclosed)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
26-Office 252 (Common Space Types:Office - Enclosed)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
27-Office 251 (Common Space Types:Office - Enclosed)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
28-Office 247 (Common Space Types:Office - Enclosed)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
29-Office 101 (Common Space Types:Office - Enclosed)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
30-Office 243 (Common Space Types:Office - Enclosed)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
31-Office 240 (Common Space Types:Office - Enclosed)	
TH42: TH42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
32-Conf 237 (Common Space Types:Conference/Meeting/Multipurpose)	
T42: T42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control

1

Interior Lighting PASSES: Design 51% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title	Signature	Date
Matt Potts – Electrical Designer	Matthew Potts	08/18/2026

ALPHA BLDG SET 09-01-2026

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

No. PE046069
JESSE F. WENDELL
08/20/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: MAP
DRAWN: MAP
CHECKED: JFW
CHECKED:
APPROVED:

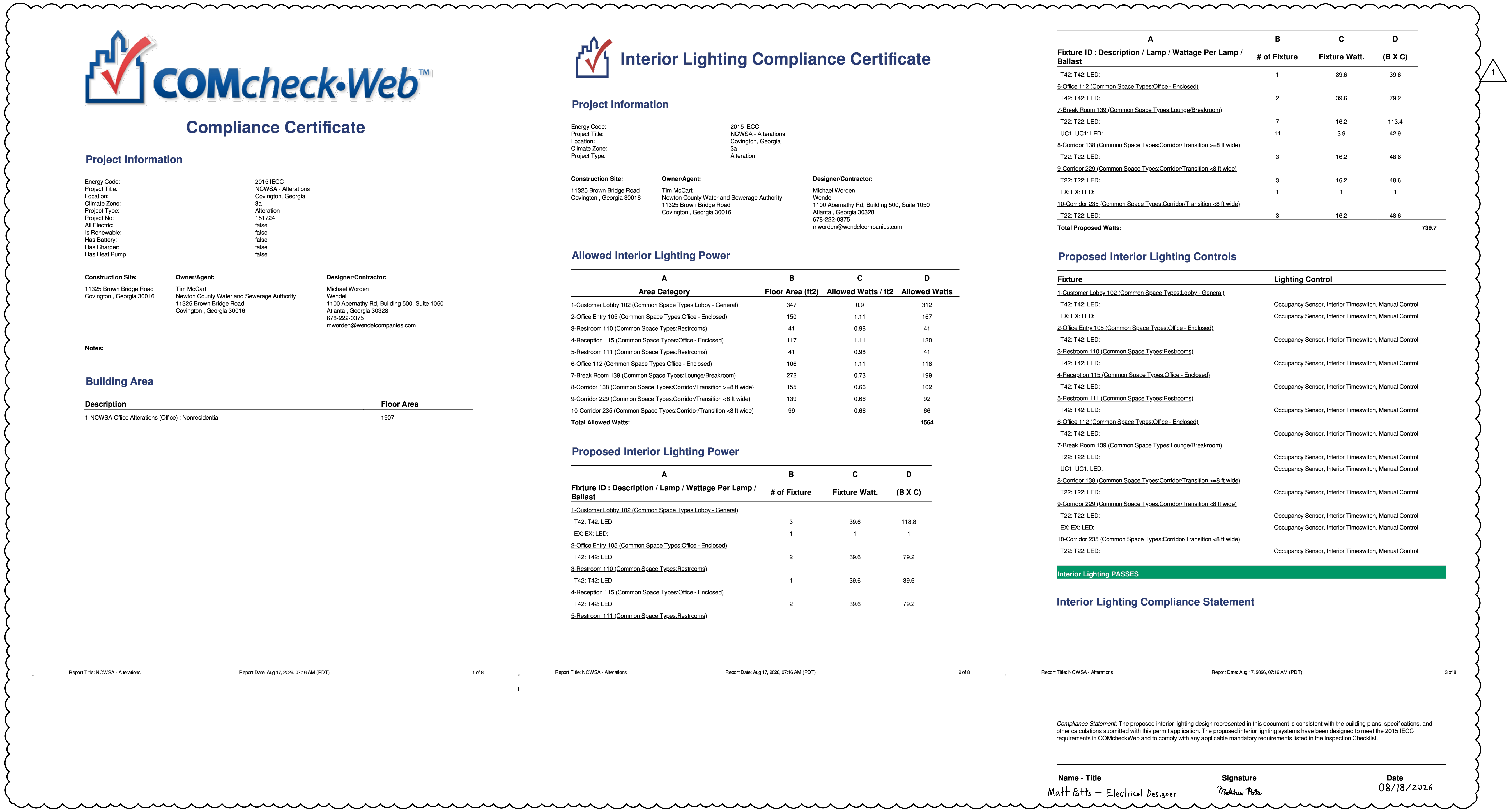
FILENAME

BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

ELECTRICAL
COMCHECK

DRAWING NUMBER
E004

ALPHA BLDG SET 09-01-2026



1

COMcheck-Web™

Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	NCWSA - Alterations
Location:	Covington, Georgia
Climate Zone:	3a
Project Type:	Alteration
Project No:	151724
All Electric:	false
Is Renewable:	false
Has Battery:	false
Has Charger:	false
Has Heat Pump	false

Construction Site:
11325 Brown Bridge Road
Covington , Georgia 30016

Owner/Agent:
Tim McCart
Newton County Water and Sewerage Authority
11325 Brown Bridge Road
Covington , Georgia 30016

Designer/Contractor:
Michael Worden
Wendel
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Atlanta , Georgia 30328
678-222-0375
mworden@wendelcompanies.com

Notes:

Building Area

Description	Floor Area
1-NCWSA Office Alterations (Office) : Nonresidential	1907

Report Title: NCWSA - Alterations Report Date: Aug 17, 2026, 07:16 AM (PDT) 1 of 8

Interior Lighting Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	NCWSA - Alterations
Location:	Covington, Georgia
Climate Zone:	3a
Project Type:	Alteration

Construction Site:
11325 Brown Bridge Road
Covington , Georgia 30016

Owner/Agent:
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Newton County Water and Sewerage Authority
11325 Brown Bridge Road
Covington , Georgia 30016

Designer/Contractor:
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Allowed Interior Lighting Power

A	B	C	D
Area Category	Floor Area (ft2)	Allowed Watts / ft2	Allowed Watts
1-Customer Lobby 102 (Common Space Types:Lobby - General)	347	0.9	312
2-Office Entry 105 (Common Space Types:Office - Enclosed)	150	1.11	167
3-Restroom 110 (Common Space Types:Restrooms)	41	0.98	41
4-Reception 115 (Common Space Types:Office - Enclosed)	117	1.11	130
5-Restroom 111 (Common Space Types:Restrooms)	41	0.98	41
6-Office 112 (Common Space Types:Office - Enclosed)	106	1.11	118
7-Break Room 139 (Common Space Types:Lounge/Breakroom)	272	0.73	199
8-Corridor 138 (Common Space Types:Corridor/Transition >=8 ft wide)	155	0.66	102
9-Corridor 229 (Common Space Types:Corridor/Transition <8 ft wide)	139	0.66	92
10-Corridor 235 (Common Space Types:Corridor/Transition <8 ft wide)	99	0.66	66
Total Allowed Watts:			**1564**

Proposed Interior Lighting Power

A	B	C	D
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	# of Fixture	Fixture Watt.	(B X C)
1-Customer Lobby 102 (Common Space Types:Lobby - General)			
T42: T42: LED:	3	39.6	118.8
EX: EX: LED:	1	1	1
2-Office Entry 105 (Common Space Types:Office - Enclosed)			
T42: T42: LED:	2	39.6	79.2
3-Restroom 110 (Common Space Types:Restrooms)			
T42: T42: LED:	1	39.6	39.6
4-Reception 115 (Common Space Types:Office - Enclosed)			
T42: T42: LED:	2	39.6	79.2
5-Restroom 111 (Common Space Types:Restrooms)			
T42: T42: LED:	1	39.6	39.6
6-Office 112 (Common Space Types:Office - Enclosed)			
T42: T42: LED:	2	39.6	79.2
7-Break Room 139 (Common Space Types:Lounge/Breakroom)			
T22: T22: LED:	7	16.2	113.4
UC1: UC1: LED:	11	3.9	42.9
8-Corridor 138 (Common Space Types:Corridor/Transition >=8 ft wide)			
T22: T22: LED:	3	16.2	48.6
9-Corridor 229 (Common Space Types:Corridor/Transition <8 ft wide)			
T22: T22: LED:	3	16.2	48.6
EX: EX: LED:	1	1	1
10-Corridor 235 (Common Space Types:Corridor/Transition <8 ft wide)			
T22: T22: LED:	3	16.2	48.6
Total Proposed Watts:			**739.7**

Report Title: NCWSA - Alterations Report Date: Aug 17, 2026, 07:16 AM (PDT) 2 of 8

Proposed Interior Lighting Controls

Fixture	Lighting Control
1-Customer Lobby 102 (Common Space Types:Lobby - General)	
T42: T42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
EX: EX: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
2-Office Entry 105 (Common Space Types:Office - Enclosed)	
T42: T42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
3-Restroom 110 (Common Space Types:Restrooms)	
T42: T42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
4-Reception 115 (Common Space Types:Office - Enclosed)	
T42: T42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
5-Restroom 111 (Common Space Types:Restrooms)	
T42: T42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
6-Office 112 (Common Space Types:Office - Enclosed)	
T42: T42: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
7-Break Room 139 (Common Space Types:Lounge/Breakroom)	
T22: T22: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
UC1: UC1: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
8-Corridor 138 (Common Space Types:Corridor/Transition >=8 ft wide)	
T22: T22: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
9-Corridor 229 (Common Space Types:Corridor/Transition <8 ft wide)	
T22: T22: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
EX: EX: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control
10-Corridor 235 (Common Space Types:Corridor/Transition <8 ft wide)	
T22: T22: LED:	Occupancy Sensor, Interior Timeswitch, Manual Control

Interior Lighting PASSES

Interior Lighting Compliance Statement

Report Title: NCWSA - Alterations Report Date: Aug 17, 2026, 07:16 AM (PDT) 3 of 8

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title	Signature	Date
Matt Potts – Electrical Designer	Matthew Potts	08/18/2026

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

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FOR CONSTRUCTION
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THE SEAL AND SIGNATURE OF
A DULY REGISTERED
PROFESSIONAL

No. PE046069
JESSE F. WENDELL
08/20/2026

CONSTRUCTION
DOCUMENTS
07/01/2026

NCWSA OFFICE
ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/2026	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MAP
DRAWN: MAP
CHECKED: JFW
CHECKED:
APPROVED:

FILENAME

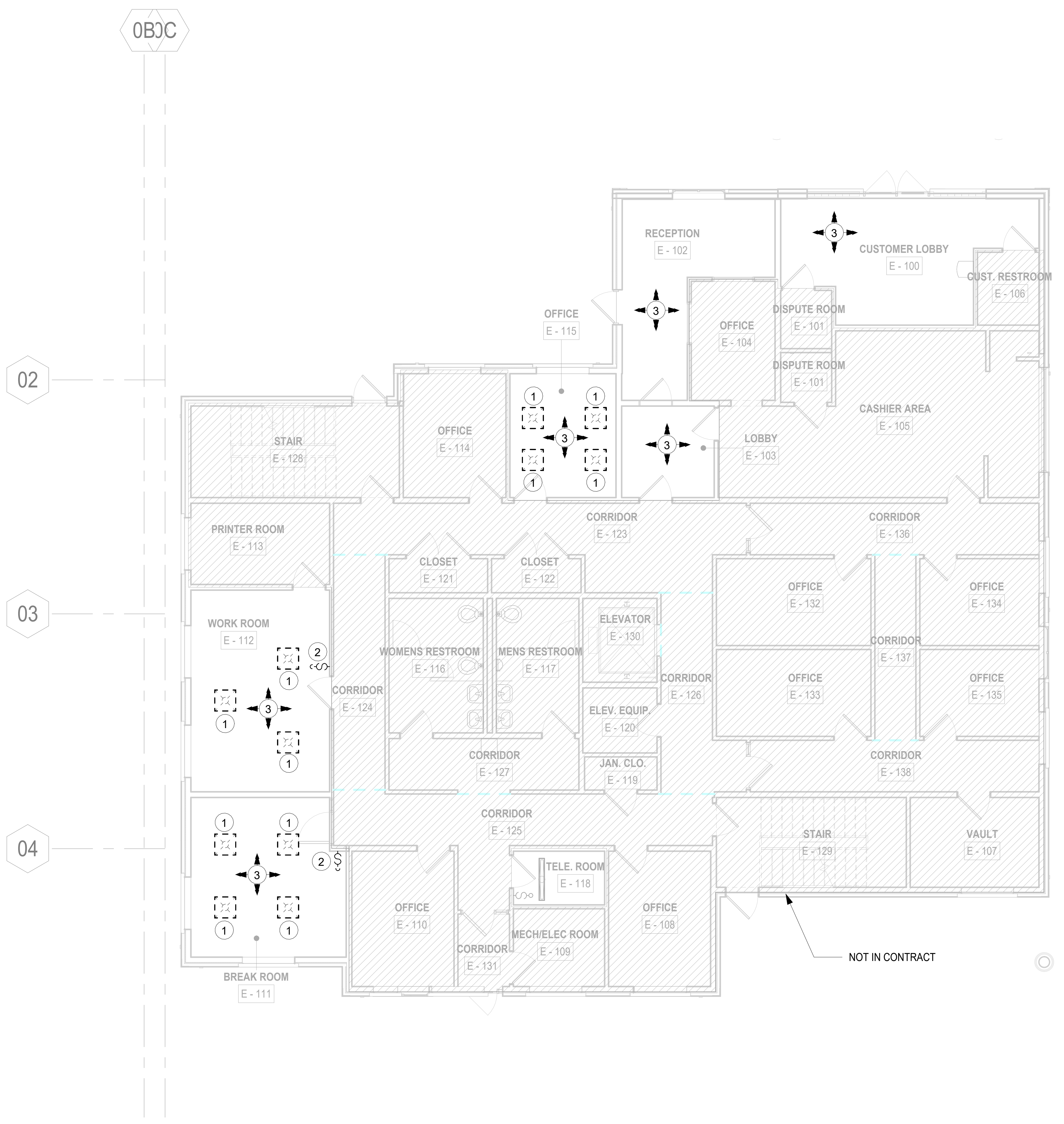
BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

ELECTRICAL

COMCHECK

DRAWING NUMBER
E005



① FIRST FLOOR LIGHTING PLAN - DEMOLITION

SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

A. MAINTAIN INTEGRITY OF EXISTING CIRCUIT WIRING PRESENTLY INSTALLED & SERVING EQUIPMENT OUTSIDE THE WORK AREA. VERIFY ROUTE OF EACH FEEDER & BRANCH CIRCUIT SCHEDULED FOR REMOVAL.

B. PROVIDE PROTECTION FOR ALL EXISTING CONSTRUCTION SYSTEMS/EQUIPMENT SCHEDULED TO REMAIN DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR RECONDITIONING OF EQUIPMENT/ITEMS DAMAGED DURING REMOVALS.

C. FIRE ALARM & SECURITY SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. PROVIDE TEMPORARY WIRING AS REQUIRED TO MAINTAIN FIRE ALARM SYSTEM DETECTION/NOTIFICATION THROUGHOUT CONSTRUCTION PHASE & OPERATION OF SECURITY SYSTEM. NOTIFY OWNER OF AREAS TO BE SHUTDOWN WHILE WORK IS BEING PERFORMED. FIRE ALARM & SECURITY SYSTEMS SHALL BE FULLY OPERATIONAL AT END OF EACH WORK DAY. CONTRACTOR SHALL NOT LEAVE ANY AREAS WITHOUT FIRE ALARM SYSTEM BEING FULLY FUNCTIONAL & SECURITY SYSTEM FULLY OPERATIONAL.

D. UNLESS OTHERWISE NOTED, DISCONNECT & REMOVE ALL ELECTRICAL WORK ASSOCIATED WITH DEVICE/FIXTURES SCHEDULED FOR REMOVAL. ASSOCIATED ELECTRICAL WORK SHALL INCLUDE CONDUIT, BOXES, CONNECTORS, ETC. BACK TO SOURCE PANEL.

E. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ELECTRICAL DEVICES & MISC. ITEMS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ANY COST ASSOCIATED WITH DISPOSAL.

H. DEMOLITION SHOWN SHALL BE SELECTIVE. UNLESS OTHERWISE INDICATED ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES FOUND IN THE FIELD PRIOR TO DEMOLITION OF ANY ITEMS NOT SHOWN. CONTRACTOR SHALL, AT HIS EXPENSE, REPLACE OR REPAIR ANY DEMOLISHED ITEM(S) THAT WERE NOT CALLED FOR ON THE PLANS OR BROUGHT TO ENGINEERS ATTENTION.

(#) DEMOLITION NOTES:

1. DISCONNECT & REMOVE EXISTING LUMINAIRE & ALL ITS ASSOCIATED ELECTRICAL IN ITS ENTIRETY BACK TO SOURCE.
2. DISCONNECT & REMOVE EXISTING LIGHT SWITCH & ALL ITS ASSOCIATED ELECTRICAL IN ITS ENTIRETY BACK TO SOURCE.
3. DISCONNECT & REMOVE ALL EXISTING LIGHTING ELECTRICAL IN THIS ROOM. THIS INCLUDES LUMINAIRES, LIGHT SWITCHES, OCCUPANCY SENSORS, AND VACANCY SENSORS. DISCONNECT & REMOVE THE FIXTURE/DEVICE ITSELF & ALL ITS ASSOCIATED ELECTRICAL IN ITS ENTIRETY BACK TO SOURCE.

ALPHA BLDG SET 09-01-2026

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

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No. PE046069
JESSE F. WENDELL
08/20/2026

CONSTRUCTION
DOCUMENTS
07/01/2026

NCWSA OFFICE
ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

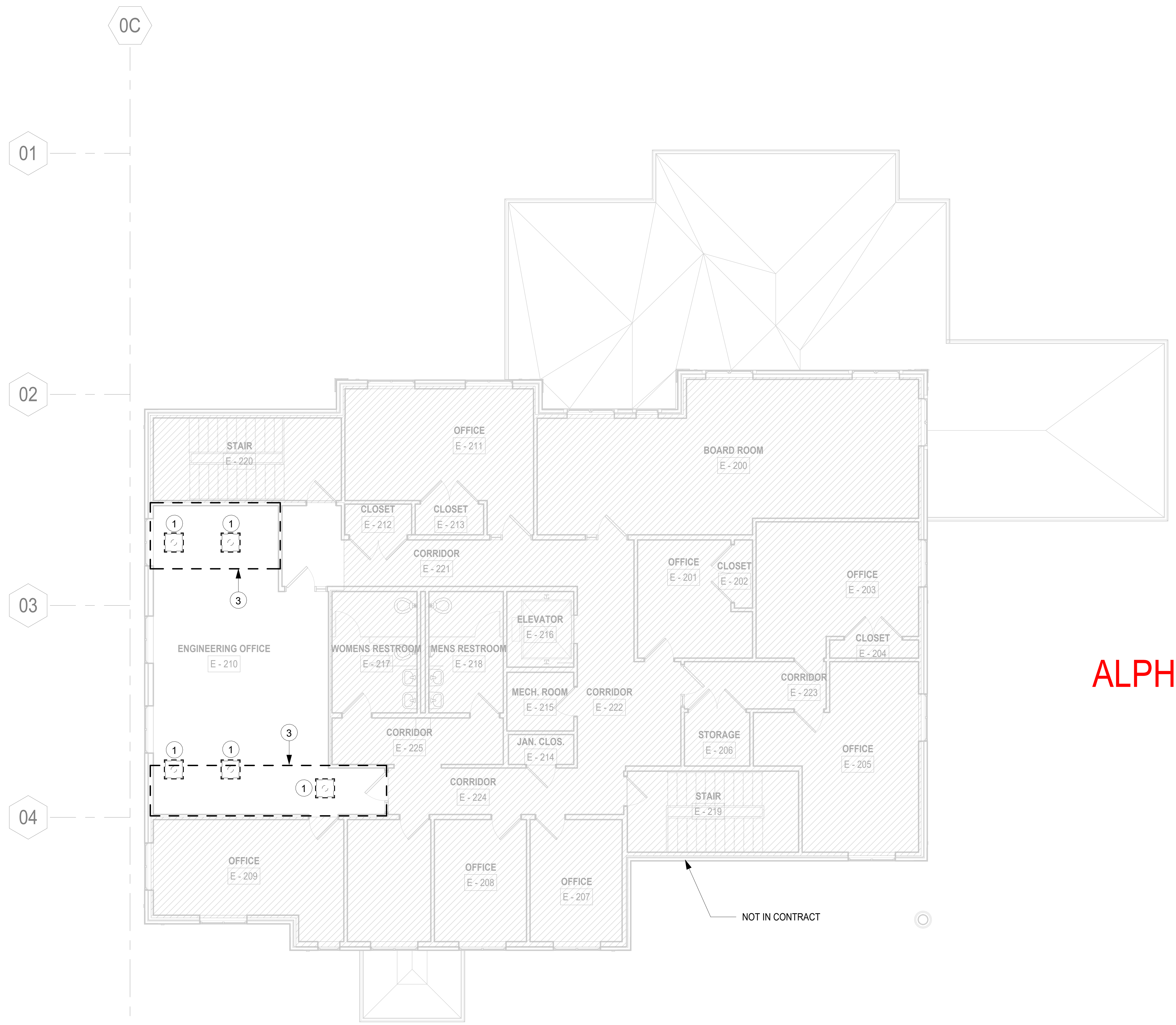
DESIGNED: MAP
DRAWN: MAP
CHECKED: JFW
CHECKED:
APPROVED:

FILENAME

BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

FIRST FLOOR
LIGHTING PLAN -
DEMOLITION

DRAWING NUMBER
ED101



1 SECOND FLOOR LIGHTING PLAN - DEMOLITION

SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

A. MAINTAIN INTEGRITY OF EXISTING CIRCUIT WIRING PRESENTLY INSTALLED & SERVING EQUIPMENT OUTSIDE THE WORK AREA. VERIFY ROUTE OF EACH FEEDER & BRANCH CIRCUIT SCHEDULED FOR REMOVAL.

B. PROVIDE PROTECTION FOR ALL EXISTING CONSTRUCTION SYSTEMS/EQUIPMENT SCHEDULED TO REMAIN DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR RECONDITIONING OF EQUIPMENT/ITEMS DAMAGED DURING REMOVALS.

C. FIRE ALARM & SECURITY SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. PROVIDE TEMPORARY WIRING AS REQUIRED TO MAINTAIN FIRE ALARM SYSTEM DETECTION/NOTIFICATION THROUGHOUT CONSTRUCTION PHASE & OPERATION OF SECURITY SYSTEM. NOTIFY OWNER OF AREAS TO BE SHUTDOWN WHILE WORK IS BEING PERFORMED. FIRE ALARM & SECURITY SYSTEMS SHALL BE FULLY OPERATIONAL AT END OF EACH WORK DAY. CONTRACTOR SHALL NOT LEAVE ANY AREAS WITHOUT FIRE ALARM SYSTEM BEING FULLY FUNCTIONAL & SECURITY SYSTEM FULLY OPERATIONAL.

D. UNLESS OTHERWISE NOTED, DISCONNECT & REMOVE ALL ELECTRICAL WORK ASSOCIATED WITH DEVICE/FIXTURES SCHEDULED FOR REMOVAL. ASSOCIATED ELECTRICAL WORK SHALL INCLUDE CONDUIT, BOXES, CONNECTORS, ETC. BACK TO SOURCE PANEL.

E. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ELECTRICAL DEVICES & MISC. ITEMS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ANY COST ASSOCIATED WITH DISPOSAL.

H. DEMOLITION SHOWN SHALL BE SELECTIVE. UNLESS OTHERWISE INDICATED ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES FOUND IN THE FIELD PRIOR TO DEMOLITION OF ANY ITEMS NOT SHOWN. CONTRACTOR SHALL, AT HIS EXPENSE, REPLACE OR REPAIR ANY DEMOLISHED ITEM(S) THAT WERE NOT CALLED FOR ON THE PLANS OR BROUGHT TO ENGINEERS ATTENTION.

DEMOLITION NOTES:

1. DISCONNECT & REMOVE EXISTING LUMINAIRE & ALL ITS ASSOCIATED ELECTRICAL IN ITS ENTIRETY BACK TO SOURCE.
2. DISCONNECT & REMOVE EXISTING LIGHT SWITCH & ALL ITS ASSOCIATED ELECTRICAL IN ITS ENTIRETY BACK TO SOURCE.
3. DISCONNECT & REMOVE EXISTING LIGHTING ELECTRICAL IN THIS AREA. THIS INCLUDES LUMINAIRES, LIGHT SWITCHES, OCCUPANCY SENSORS, AND VACANCY SENSORS. DISCONNECT & REMOVE THE DEVICE/FIXTURE ITSELT & ALL ITS ASSOCIATED ELECTRICAL IN ITS ENTIRETY BACK TO SOURCE.

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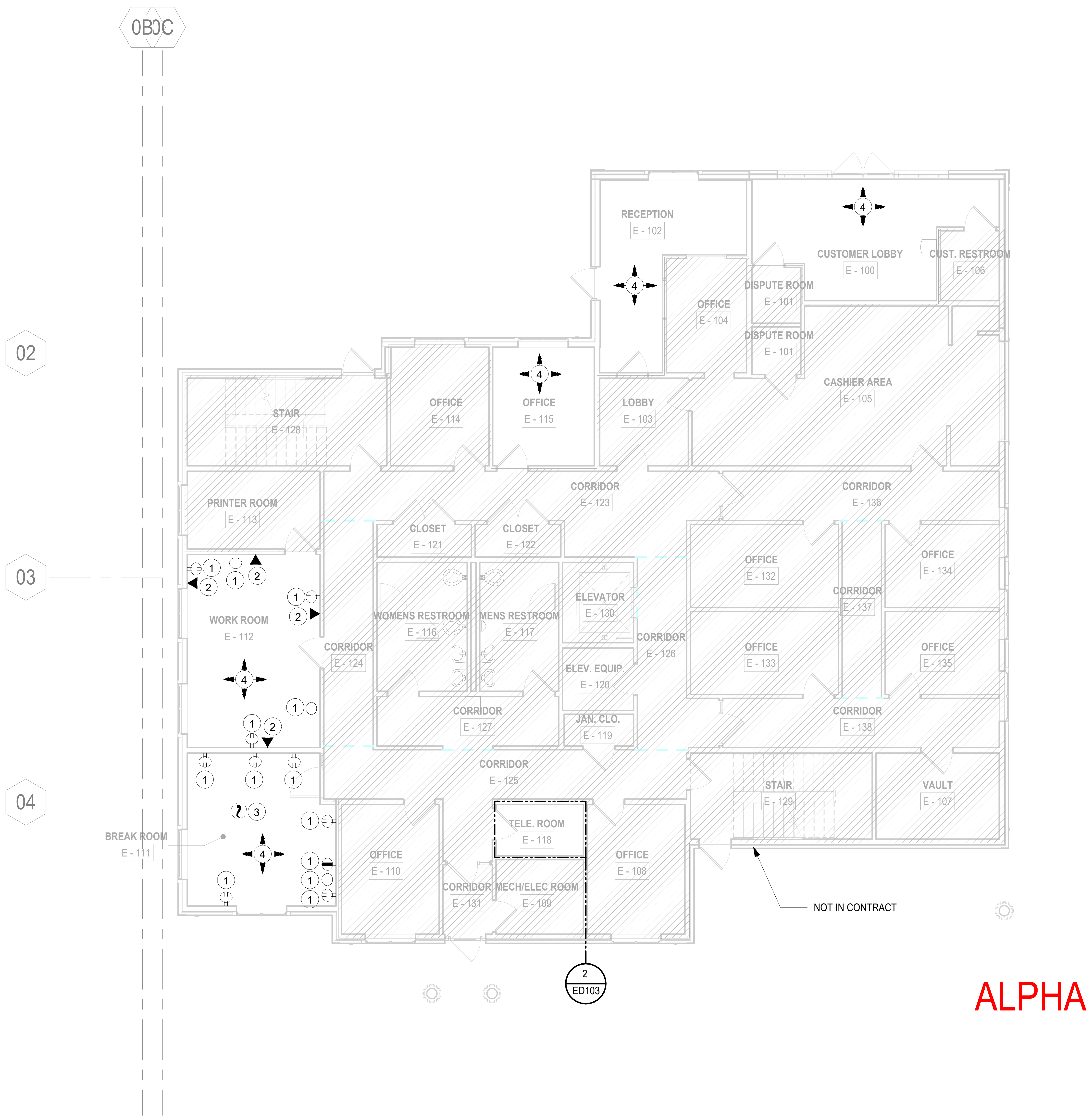
616202

CLIENT PROJECT NUMBER

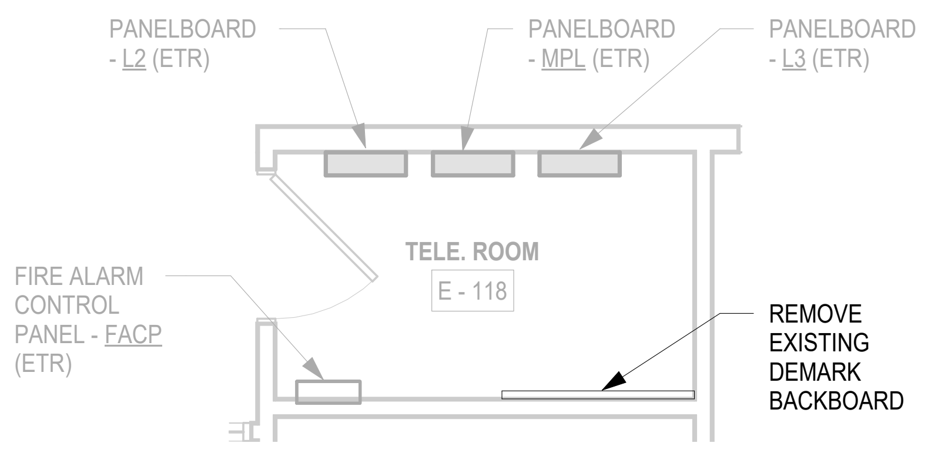
SECOND FLOOR LIGHTING PLAN - DEMOLITION

DRAWING NUMBER
ED102



① FIRST FLOOR POWER & SYSTEMS PLAN - DEMOLITION

SCALE: 1/8" = 1'-0"



② TELE. ROOM E - 118 POWER & SYSTEMS ENLARGED PLAN - DEMOLITION

SCALE: 1/4" = 1'-0"

GENERAL DEMOLITION NOTES:

A. MAINTAIN INTEGRITY OF EXISTING CIRCUIT WIRING PRESENTLY INSTALLED & SERVING EQUIPMENT OUTSIDE THE WORK AREA. VERIFY ROUTE OF EACH FEEDER & BRANCH CIRCUIT SCHEDULED FOR REMOVAL.

B. PROVIDE PROTECTION FOR ALL EXISTING CONSTRUCTION SYSTEMS/EQUIPMENT SCHEDULED TO REMAIN DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR RECONDITIONING OF EQUIPMENT/ITEMS DAMAGED DURING REMOVALS.

C. FIRE ALARM & SECURITY SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. PROVIDE TEMPORARY WIRING AS REQUIRED TO MAINTAIN FIRE ALARM SYSTEM DETECTION/NOTIFICATION THROUGHOUT CONSTRUCTION PHASE & OPERATION OF SECURITY SYSTEM. NOTIFY OWNER OF AREAS TO BE SHUTDOWN WHILE WORK IS BEING PERFORMED. FIRE ALARM & SECURITY SYSTEMS SHALL BE FULLY OPERATIONAL AT END OF EACH WORK DAY. CONTRACTOR SHALL NOT LEAVE ANY AREAS WITHOUT FIRE ALARM SYSTEM BEING FULLY FUNCTIONAL & SECURITY SYSTEM FULLY OPERATIONAL.

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G. UNLESS OTHERWISE NOTED, ALL EXISTING TELECOMMUNICATIONS SYSTEMS SHALL REMAIN IN PLACE.

(#) DEMOLITION NOTES:

1. DISCONNECT & REMOVE EXISTING RECEPTACLE & ALL ITS ASSOCIATED ELECTRICAL IN ITS ENTIRETY BACK TO SOURCE.
2. DISCONNECT & REMOVE EXISTING DATA DROP & ALL ITS ASSOCIATED ELECTRICAL IN ITS ENTIRETY BACK TO SOURCE.
3. DISCONNECT & REMOVE EXISTING FIRE ALARM DEVICE & ALL ITS ASSOCIATED ELECTRICAL IN ITS ENTIRETY BACK TO SOURCE.
4. DISCONNECT & REMOVE ALL EXISTING POWER & SYSTEMS ELECTRICAL DEVICES IN THIS ROOM. THIS INCLUDES RECEPTACLES, DATA DROPS, AND FIRE ALARM DEVICES. DISCONNECT & REMOVE THE FIXTURE/DEVICE ITSELF & ALL ITS ASSOCIATED ELECTRICAL IN ITS ENTIRETY BACK TO SOURCE.

ALPHA BLDG SET 09-01-2026

Brown AND Caldwell

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NCWSA

NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

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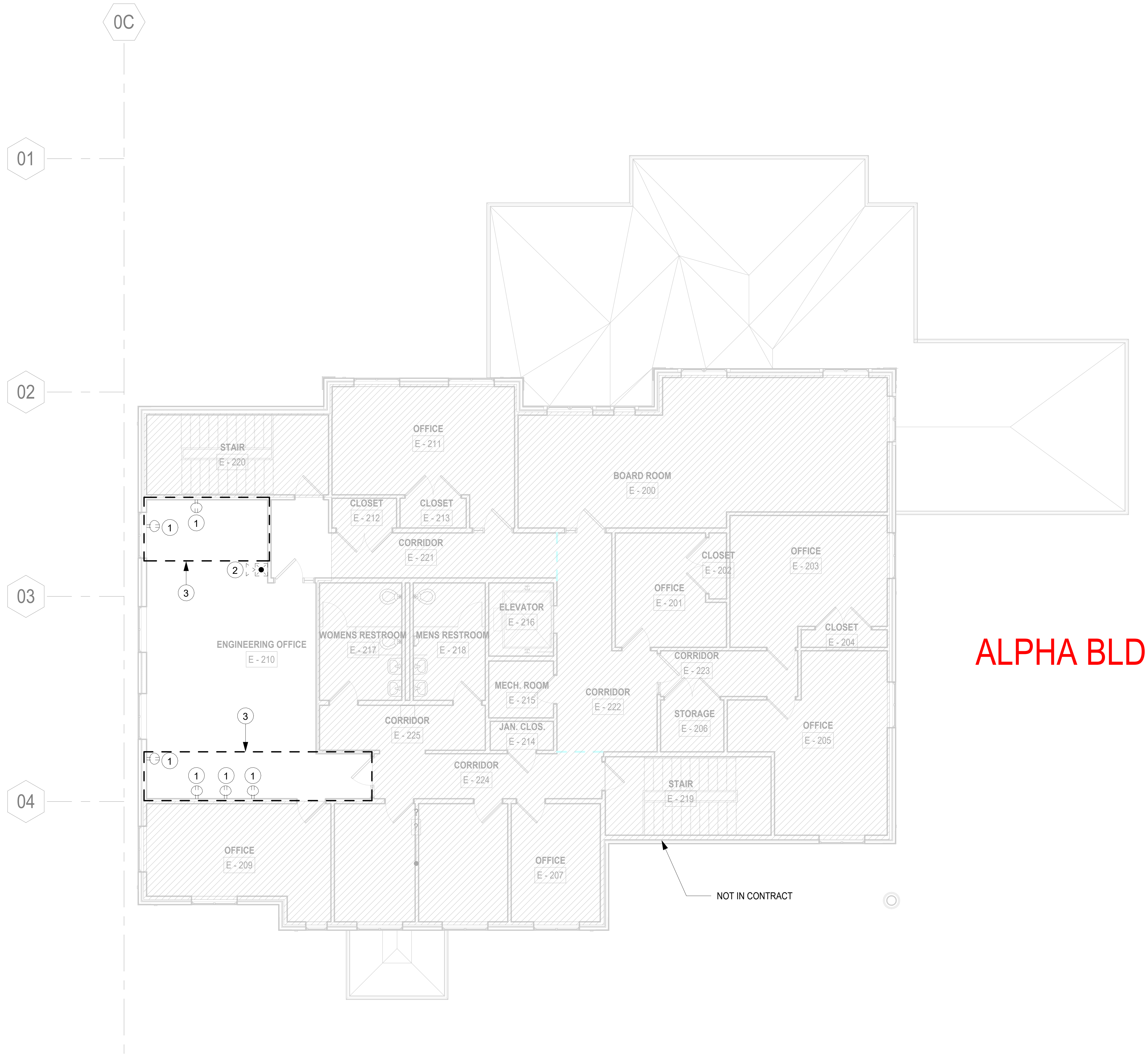
BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

FIRST FLOOR POWER & SYSTEMS PLAN - DEMOLITION

DRAWING NUMBER
ED103



① SECOND FLOOR POWER & SYSTEMS PLAN - DEMOLITION

SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES:

A. MAINTAIN INTEGRITY OF EXISTING CIRCUIT WIRING PRESENTLY INSTALLED & SERVING EQUIPMENT OUTSIDE THE WORK AREA. VERIFY ROUTE OF EACH FEEDER & BRANCH CIRCUIT SCHEDULED FOR REMOVAL.

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2. DISCONNECT & REMOVE EXISTING FIRE ALARM DEVICE & ALL ITS ASSOCIATED ELECTRICAL IN ITS ENTIRETY BACK TO SOURCE.
3. DISCONNECT & REMOVE EXISTING POWER & SYSTEMS ELECTRICAL DEVICES IN THIS AREA. THIS INCLUDES RECEPTACLES, DATA DROPS, AND FIRE ALARM DEVICES. DISCONNECT & REMOVE THE DEVICE/ FIXTURE ITSELF & ALL ITS ASSOCIATED ELECTRICAL IN ITS ENTIRETY BACK TO SOURCE.

ALPHA BLDG SET 09-01-2026

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ATLANTA, GA 30328

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616202

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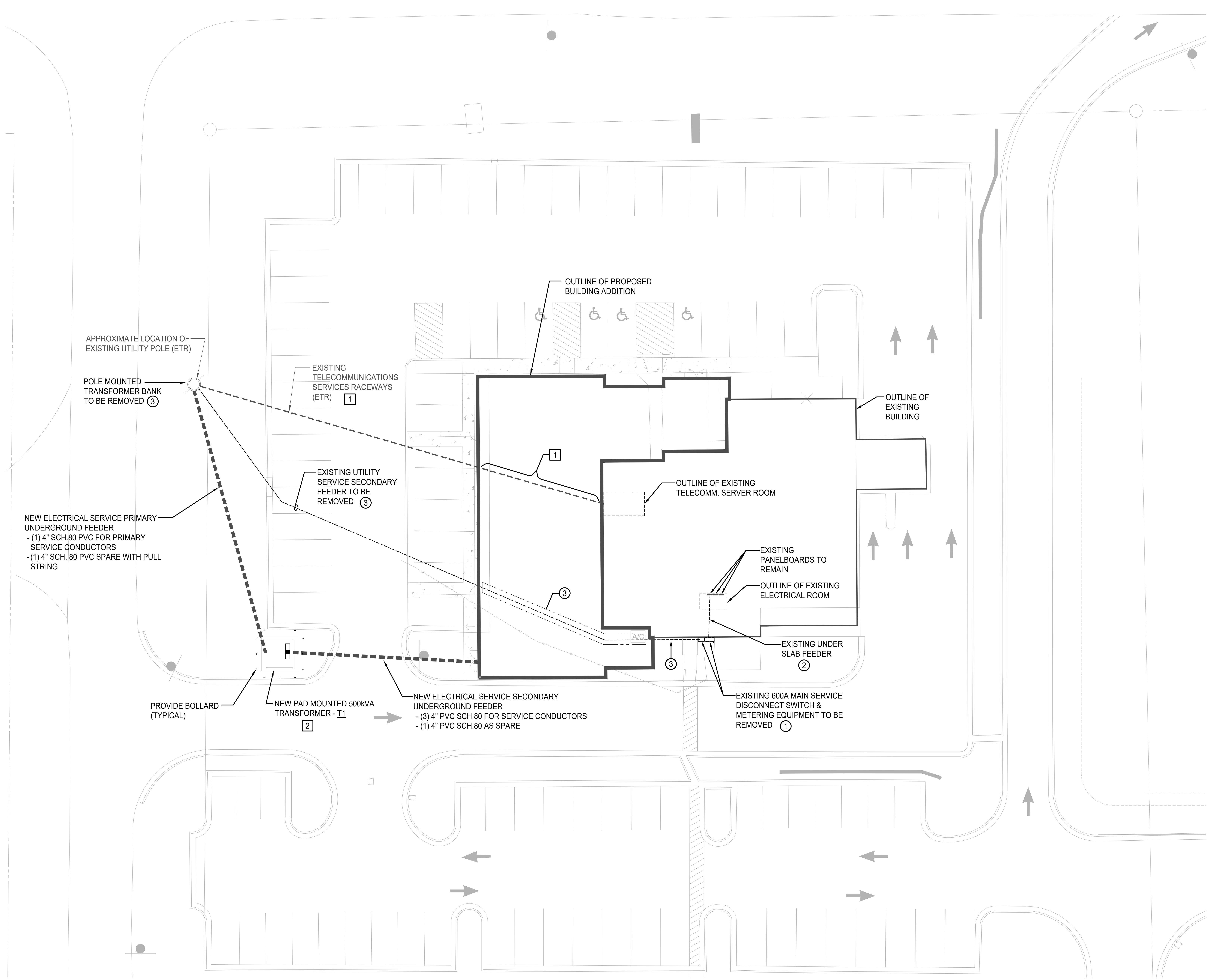
SECOND FLOOR POWER & SYSTEMS PLAN - DEMOLITION

DRAWING NUMBER
ED104


APPROXIMATE LOCATION OF EXISTING UTILITY POLE (ETR)
POLE MOUNTED TRANSFORMER BANK TO BE REMOVED ③
EXISTING TELECOMMUNICATIONS SERVICES RACEWAYS (ETR) 1
OUTLINE OF PROPOSED BUILDING ADDITION
OUTLINE OF EXISTING BUILDING
1
EXISTING UTILITY SERVICE SECONDARY FEEDER TO BE REMOVED ③
OUTLINE OF EXISTING TELECOMM. SERVER ROOM
NEW ELECTRICAL SERVICE PRIMARY UNDERGROUND FEEDER
- (1) 4" SCH.80 PVC FOR PRIMARY SERVICE CONDUCTORS
- (1) 4" SCH. 80 PVC SPARE WITH PULL STRING
EXISTING PANELBOARDS TO REMAIN
OUTLINE OF EXISTING ELECTRICAL ROOM
③
A/C
EXISTING UNDER SLAB FEEDER ②
③
PROVIDE BOLLARD (TYPICAL)
NEW PAD MOUNTED 500kVA TRANSFORMER - T1
2
NEW ELECTRICAL SERVICE SECONDARY UNDERGROUND FEEDER
- (3) 4" PVC SCH.80 FOR SERVICE CONDUCTORS
- (1) 4" PVC SCH.80 AS SPARE
EXISTING 600A MAIN SERVICE DISCONNECT SWITCH & METERING EQUIPMENT TO BE REMOVED ①

① ELECTRICAL SITE PLAN

SCALE: 1"=20'-0"

GENERAL NOTES:

A. UNLESS OTHERWISE NOTED, ALL UNDERGROUND WIRING INDICATED ON THIS SHALL BE INSTALLED WITH A MINIMUM OF 24" COVER BELOW FINISHED GRADE.

B. PART OF THE ELECTRICAL SCOPE IS TO DISCONNECT & REMOVE EXISTING ELECTRICAL SERVICE & PROVIDE NEW SERVICE EQUIPMENT AS INDICATED. CONTRACTOR SHALL COORDINATE ALL WORK WITH LOCAL UTILITY COMPANY.

ⓧ DEMOLITION NOTES:

1. EXISTING MAIN SERVICE WALL MOUNTED DISCONNECT SWITCH & METERING EQUIPMENT & ALL ASSOCIATED ELECTRICAL WORK SHALL BE REMOVED IN THEIR ENTIRETY.

2. EXISTING SERVICE RACEWAY IN THE SLAB SHALL BE ABANDONED IN PLACE ONCE EXISTING ELECTRICAL SERVICE WIRING IS REMOVED. REMOVE CONDUCTORS, CUT THE RACEWAYS FLUSH WITH THE SLAB & PERMANENTLY SEAL THE CONDUIT OPENING.

3. ONCE THE NEW ELECTRICAL SERVICE HAS BEEN FULLY ESTABLISHED & VERIFIED OPERATIONAL, THE CONTRACTOR SHALL REMOVE THE ENTIRE EXISTING UNDERGROUND FEEDER IN ITS ENTIRETY, INCLUDING ALL SECTIONS LOCATED WITHIN THE FOOTPRINT OF THE NEW BUILDING ADDITION.

☒ CONSTRUCTION NOTES:

1. THE EXISTING TELECOMMUNICATIONS SERVICE RACEWAY SHALL BE FULLY PROTECTED THROUGHOUT CONSTRUCTION OF THE BUILDING ADDITION. CONTINUOUS TELECOMMUNICATIONS SERVICE SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE COORDINATED & APPROVED BY THE OWNER. ONCE EXPOSED, ALL RACEWAYS SHALL BE PROPERLY SUPPORTED, SECURED, & PROTECTED AS NECESSARY. ANY PORTION OF THE RACEWAY LOCATED BENEATH THE FOOTPRINT OF THE NEW BUILDING ADDITION SHALL BE ENCASED IN CONCRETE FOR PERMANENT PROTECTION. IN THE EVENT THAT ANY TELECOMMUNICATIONS CONDUITS OR CABLING ARE ACCIDENTALLY DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER & PROVIDE TEMPORARY SERVICE RESTORATION MEASURES TO MAINTAIN TELECOMMUNICATIONS CONTINUITY UNTIL PERMANENT REPAIRS ARE COMPLETED.

2. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, COORDINATION, & SERVICES REQUIRED TO COMPLETE ALL ON-SITE WORK NECESSARY FOR THE INSTALLATION THE UTILITY-OWNED TRANSFORMER. THIS SCOPE SHALL INCLUDE, BUT IS NOT LIMITED TO:
   - TRANSFORMER PAD AS REQUIRED BY SSEMC.
   - BOLLARDS OR OTHER MEANS OF PHYSICAL PROTECTION AS REQUIRED BY THE UTILITY.
   - PRIMARY & SECONDARY CONDUIT BANKS, ALL NECESSARY TRENCHING & BACKFILL.
   - GROUNDING & BONDING PER UTILITY & CODE REQUIREMENTS
   - SECONDARY CONDUCTORS FROM TRANSFORMER TO MAIN SERVICE METERING &/OR DISCONNECT EQUIPMENT.
   - COORDINATION WITH SSEMC FOR INSPECTIONS & FINAL CONNECTION.

   PRIMARY CONDUCTORS & FINAL TERMINATIONS OF PRIMARY & CUSTOMER PROVIDED SECONDARY CONDUCTORS WILL BE PERFORMED BY THE UTILITY.

ALPHA BLDG SET 09-01-2026

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NEWTON COUNTY WATER & SEWERAGE AUTHORITY

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FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

ELECTRICAL SITE PLAN

DRAWING NUMBER
E100

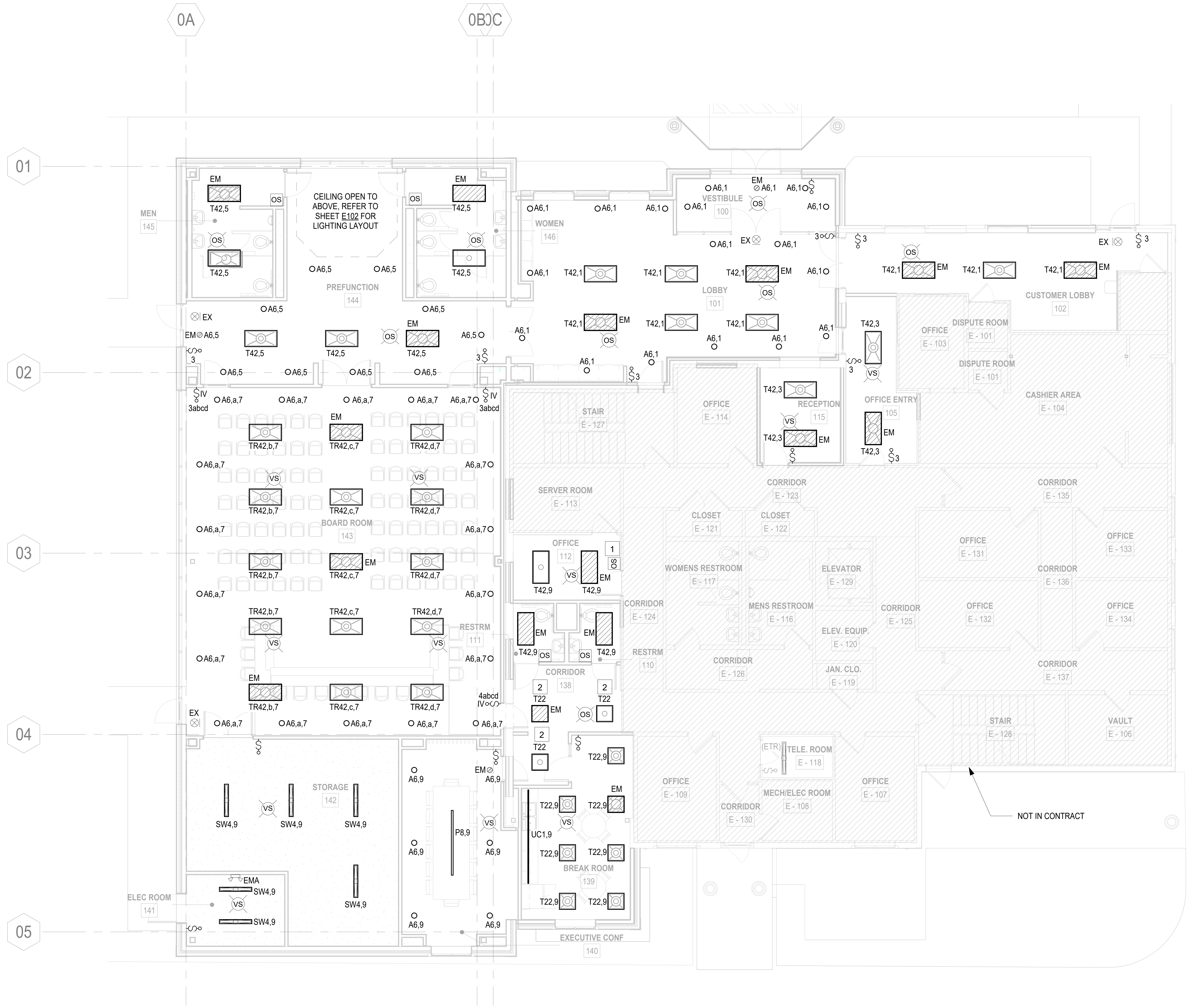
GENERAL NOTES:

A. ALL EMERGENCY LIGHTING FIXTURES WILL BE WIRED TO BE SWITCHED ON/OFF WITH THE ROOM LIGHT SWITCH.

B. UNLESS OTHERWISE NOTED, ALL LIGHTING FIXTURES SHOWN ON THIS SHEET SHALL BE FED FROM PANELBOARD PP2 LOCATED IN ELEC ROOM 141.

CONSTRUCTION NOTES:

1. PROVIDE (1) WALL MOUNTED OCCUPANCY SENSOR LIGHT SWITCH WITH DIMMING CAPABILITIES AT THIS LOCATION.
2. CIRCUIT NEW LUMINAIRES TO EXISTING LIGHT SWITCH BRANCH CIRCUIT IN THIS CORRIDOR LOCATION.



① FIRST FLOOR LIGHTING PLAN - NEW WORK
SCALE: 1/8" = 1'-0"

ALPHA BLDG SET 09-01-2026

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616202

CLIENT PROJECT NUMBER

FIRST FLOOR LIGHTING PLAN - NEW WORK

DRAWING NUMBER
E101

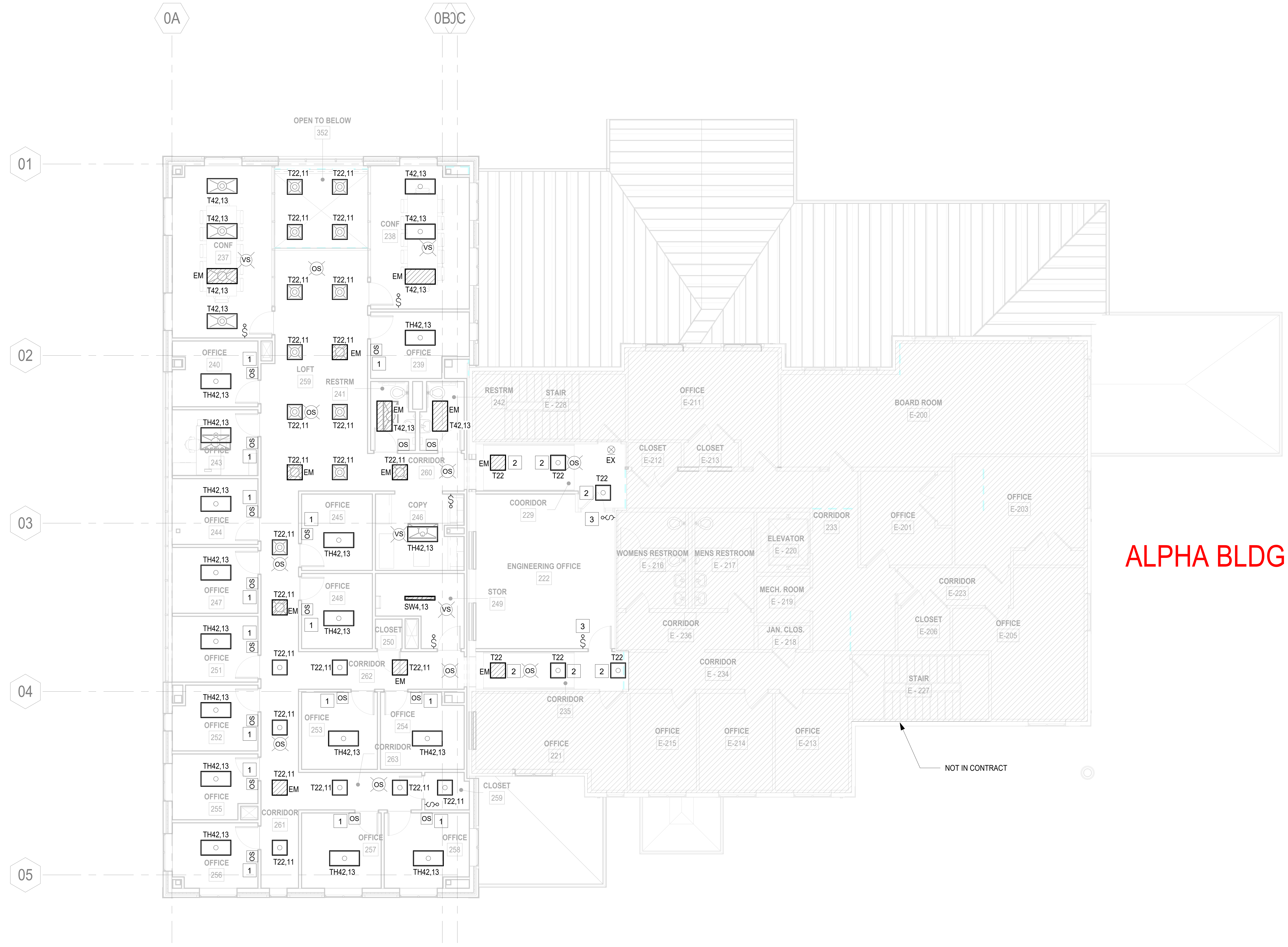
GENERAL NOTES:

A. ALL EMERGENCY LIGHTING WILL BE WIRED TO BE SWITCHED ON/OFF WITH THE ROOM LIGHT SWITCH.

B. UNLESS OTHERWISE NOTED, ALL LIGHTING FIXTURES SHOWN ON THIS SHEET SHALL BE FED FROM PANELBOARD PP2 LOCATED IN ELEC ROOM 141.

CONSTRUCTION NOTES:

1. PROVIDE (1) WALL MOUNTED OCCUPANCY SENSOR LIGHT SWITCH WITH DIMMING CAPABILITIES AT THIS LOCATION.
2. CIRCUIT NEW LUMINAIRES TO EXISTING LIGHT SWITCH BRANCH CIRCUIT IN THIS CORRIDOR LOCATION.
3. CIRCUIT NEW LIGHT SWITCHES TO EXISTING LUMINAIRE BRANCH CIRCUIT IN THIS ROOM.



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1 SECOND FLOOR LIGHTING PLAN - NEW WORK
SCALE: 1/8" = 1'-0"

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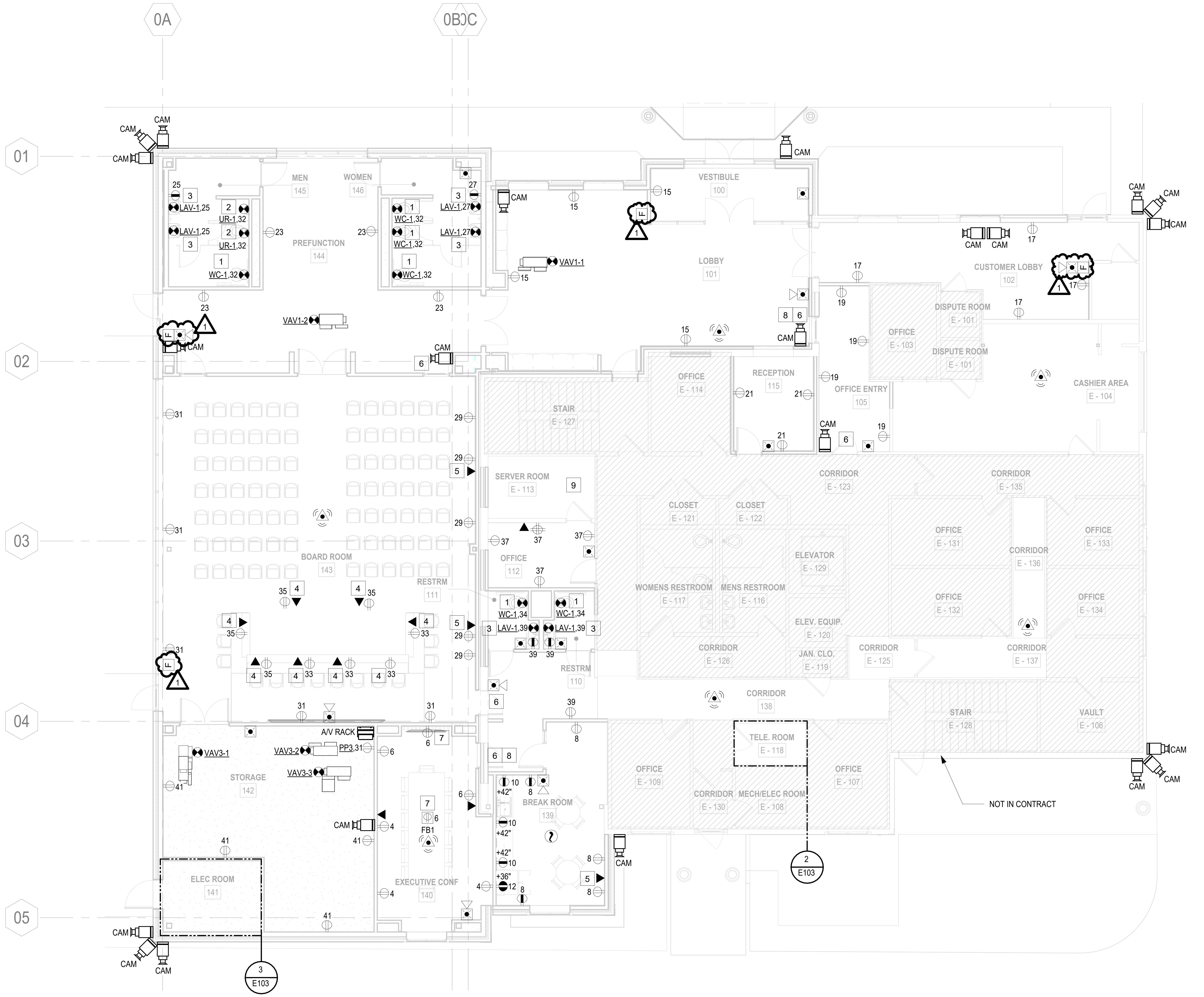
ALPHA BLDG SET 09-01-2026



① FIRST FLOOR POWER & SYSTEMS PLAN - NEW WORK

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. UNLESS OTHERWISE NOTED, REFER TO DETAIL NO.1 ON SHEET E401 FOR ELECTRICAL EQUIPMENT MOUNTING HEIGHTS.

B. REFER TO SHEET E502 FOR INFORMATION ON WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT SHOWN ON THIS SHEET.

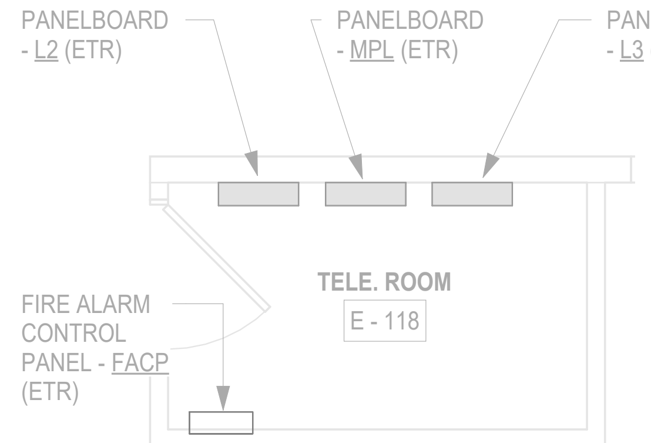
C. CONTRACTOR SHALL REVIEW & CONFIRM EXACT LOCATIONS OF ALL OUTLETS AND DATA DROPS WITH OWNER, PRIOR TO ROUGH-IN.

D. UNLESS OTHERWISE NOTED, ALL RECEPTACLES SHOWN ON THIS SHEET SHALL BE FED FROM PANELBOARD PP2 LOCATED IN ELEC ROOM 141.

E. UNLESS OTHERWISE NOTED, ALL EXTERIOR CCTV CAMERA BACK BOXES SHALL BE MOUNTED AT 12' ABOVE FINISHED GRADE. PROVIDE PENETRATIONS THROUGH EXTERIOR WALL AS NEEDED. ALL INTERIOR CCTV CAMERA BACK BOXES SHALL BE MOUNTED RECESSED ON CEILING. REFER TO DETAILS NO.4 & NO.5 ON SHEET E401 FOR MORE INFORMATION.

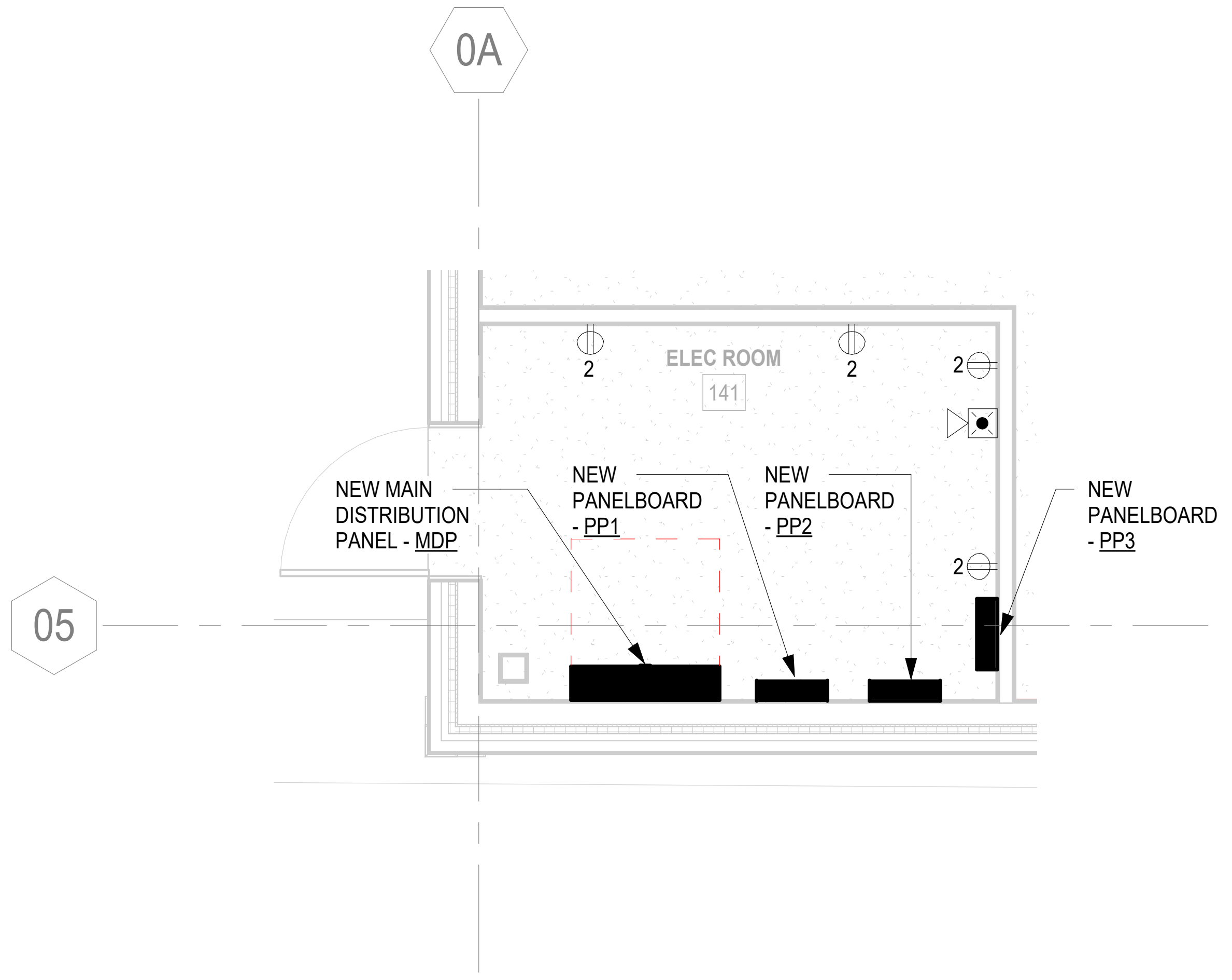
CONSTRUCTION NOTES:

1. REFER TO DETAIL NO.5 ON SHEET E402 FOR WIRING REQUIREMENTS FOR WC-1.
2. REFER TO DETAIL NO.6 ON SHEET E402 FOR WIRING REQUIREMENTS FOR UR-2.
3. PROVIDE (1) DUPLEX RECEPTACLE AT THIS LOCATION FOR LAV-1 POWER. CIRCUIT AS INDICATED. MOUNT RECEPTACLE AT 24" ABOVE GRADE. REFER TO DETAIL NO.4 ON SHEET E402 FOR ADDITIONAL INFORMATION.
4. PROVIDE (1) 4"X"4 FLOOR BOX. ROUTE 2" CONDUIT FROM FLOOR BOX TO A/V RACK IN STORAGE ROOM 142.
5. PROVIDE (1) 4"X4" WALL BOX WITH IN WALL CHASE TO CEILING FOR TV. ROUTE 2" CONDUIT FROM WALL BOX TO A/V RACK IN STORAGE ROOM 142.
6. PROVIDE (1) 4"X4" WALL BOX MOUNTED AT 48". STUB UP 2" LOW VOLTAGE CONDUIT FROM WALL BOX TO CEILING FOR ACCESS CONTROLS EQUIPMENT. EQUIPMENT WILL BE PROVIDED BY OTHERS.
7. PROVIDE (1) 4"X4" FLOOR BOX AND (1) 4"X4" WALL BOX. ROUTE WITH (2) 2" CONDUIT FROM FLOOR BOX TO WALL BOX IN ASSOCIATED ROOM. ROUTE (2) 2" CONDUIT FROM WALL BOX TO CEILING. REFER TO DETAIL NO.7 ON SHEET E402 FOR ADDITIONAL INFORMATION.
8. PROVIDE (2) 4" IN CEILING PENETRATIONS FOR LOW VOLTAGE PATHWAYS BETWEEN EXISTING BUILDING AND NEW BUILDING ADDITION.
9. PROVIDE LOW VOLTAGE PATHWAY FROM SERVER ROOM E-113 TO STORAGE ROOM 142, STORAGE 249, AND LOBBY 101.



② TELE. ROOM E - 118 POWER & SYSTEMS ENLARGED PLAN - NEW WORK

SCALE: 1/4" = 1'-0"



③ MECH/ELEC ROOM 141 POWER & SYSTEMS ENLARGED PLAN - NEW WORK

SCALE: 1/4" = 1'-0"

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

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No. PE046069
JESSE F. WENDELL
08/20/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION
1	8/18/26	AHJ COMMENTS

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MAP
DRAWN: MAP
CHECKED: JFW
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APPROVED:

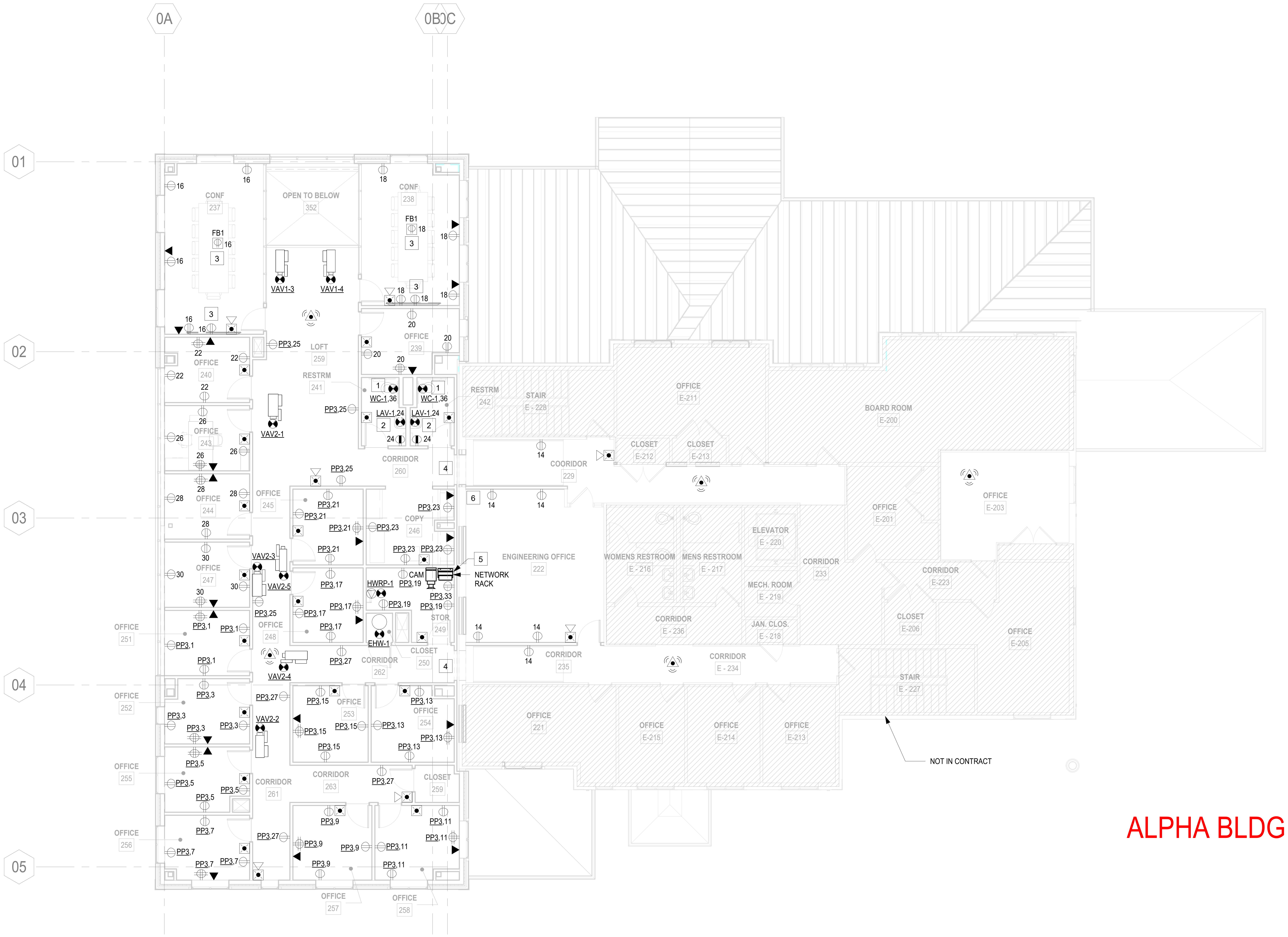
FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

FIRST FLOOR POWER & SYSTEMS PLAN - NEW WORK

DRAWING NUMBER
E103



1 SECOND FLOOR POWER & SYSTEMS PLAN - NEW WORK

SCALE: 1/8" = 1'-0"

ALPHA BLDG SET 09-01-2026

GENERAL NOTES:

A. UNLESS OTHERWISE NOTED, REFER TO DETAIL NO.1 ON SHEET E401 FOR ELECTRICAL EQUIPMENT MOUNTING HEIGHTS.

B. REFER TO SHEET E502 FOR INFORMATION ON WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT SHOWN ON THIS SHEET.

C. CONTRACTOR SHALL REVIEW & CONFIRM EXACT LOCATIONS OF ALL OUTLETS AND DATA DROPS WITH OWNER, PRIOR TO ROUGH-IN.

D. UNLESS OTHERWISE NOTED, ALL RECEPTACLES SHOWN ON THIS SHEET SHALL BE FED FROM PANELBOARD PP2 LOCATED IN ELEC ROOM 141.

CONSTRUCTION NOTES:

1. REFER TO DETAIL NO.5 ON SHEET E402 FOR WIRING REQUIREMENTS FOR WC-1.
2. PROVIDE (1) DUPLEX RECEPTACLE AT THIS LOCATION FOR LAV-1 POWER. CIRCUIT AS INDICATED. MOUNT RECEPTACLE AT 24" ABOVE GRADE. REFER TO DETAIL NO.4 ON SHEET E402 FOR ADDITIONAL INFORMATION.
3. PROVIDE (1) 4"X4" FLOOR BOX AND (1) 4"X4" WALL BOX. ROUTE WITH (2) 2" CONDUIT FROM FLOOR BOX TO WALL BOX IN ASSOCIATED ROOM. ROUTE (2) 2" CONDUIT FROM WALL BOX TO CEILING. REFER TO DETAIL NO.7 ON SHEET E402 FOR ADDITIONAL INFORMATION.
4. PROVIDE (2) 4" CEILING PENETRATIONS FOR LOW VOLTAGE PATHWAYS BETWEEN THE EXISTING BUILDING AND THE NEW BUILDING ADDITION.
5. PROVIDE LOW VOLTAGE PATHWAY FROM NETWORK RACK TO SERVER ROOM E-113.
6. PROVIDE (4) 2" CONDUIT FROM SERVER ROOM E-113 INTO SECOND FLOOR CEILING.

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

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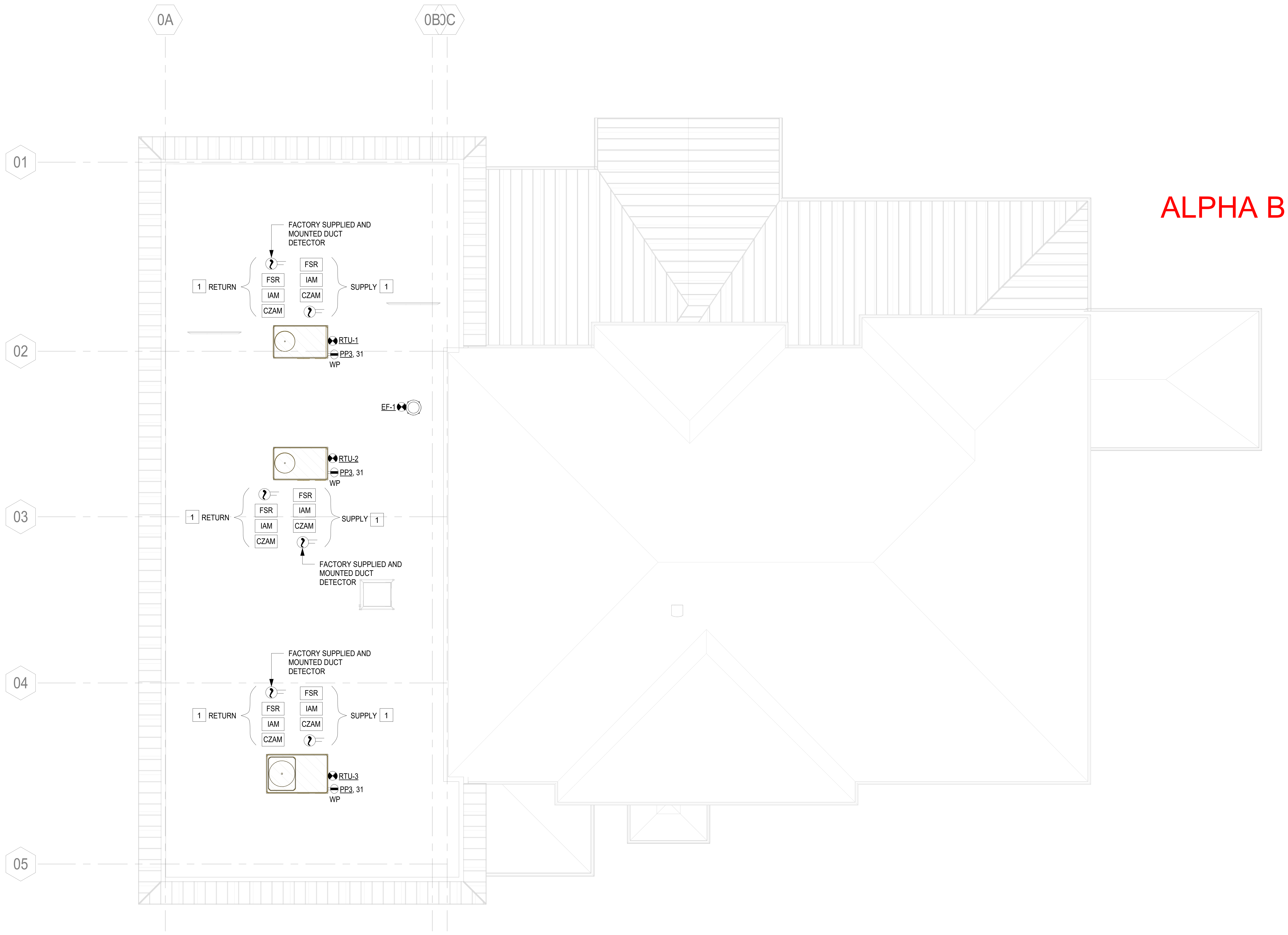
SECOND FLOOR POWER & SYSTEMS PLAN - NEW WORK

DRAWING NUMBER
E104



① ROOF POWER & SYSTEMS PLAN - NEW WORK

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

B. REFER TO SHEET E502 FOR INFORMATION ON WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT SHOWN ON THIS SHEET.

CONSTRUCTION NOTES:

1. PROVIDE INDIVIDUAL ADDRESSABLE MODULE (IAM) REMOTELY MOUNTED IN CONDITIONED ENVIRONMENT. THE IAM WILL BE CONNECTED TO THE FACTORY SUPPLIED / INSTALLED DUCT MOUNTED DETECTORS TO PROVIDE THE NOTIFICATION OF ALARM TO THE FIRE ALARM CONTROL PANEL. THE FIRE ALARM CONTROL PANEL WILL SIGNAL THE CONTROL ZONE ADDRESSABLE MODULE (CZAM) OF ALARM CONDITION. THE CZAM WILL CONTROL THE FAN SHUTDOWN RELAY (FSR) TO SHUTDOWN THE UNIT. COORDINATE FINAL MOUNTING LOCATION WITH MECHANICAL CONTRACTOR BEFORE INTALLATION.

ALPHA BLDG SET 09-01-2026

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

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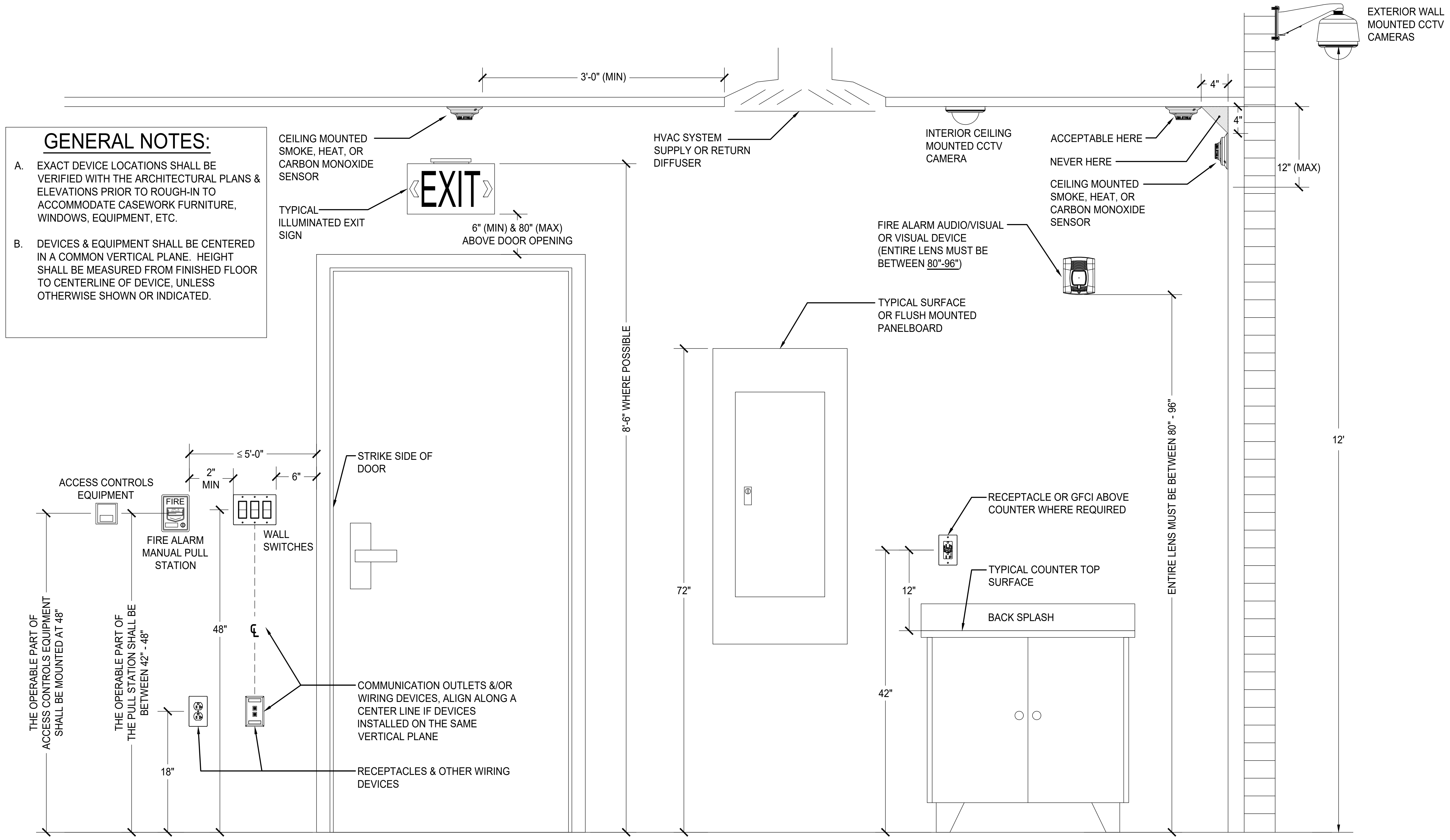
ROOF POWER & SYSTEMS PLAN - NEW WORK

DRAWING NUMBER
E105

GENERAL NOTES:

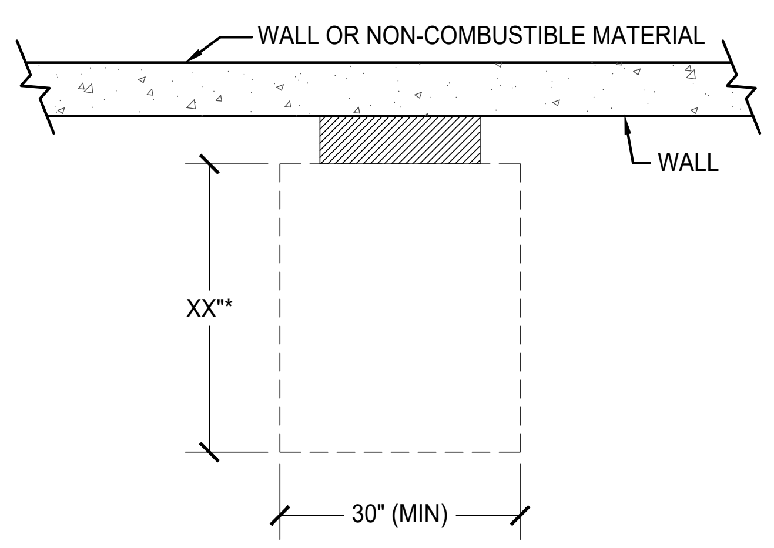
A. EXACT DEVICE LOCATIONS SHALL BE VERIFIED WITH THE ARCHITECTURAL PLANS & ELEVATIONS PRIOR TO ROUGH-IN TO ACCOMMODATE CASEWORK FURNITURE, WINDOWS, EQUIPMENT, ETC.

B. DEVICES & EQUIPMENT SHALL BE CENTERED IN A COMMON VERTICAL PLANE. HEIGHT SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, UNLESS OTHERWISE SHOWN OR INDICATED.


3'-0" (MIN)
CEILING MOUNTED SMOKE, HEAT, OR CARBON MONOXIDE SENSOR
HVAC SYSTEM SUPPLY OR RETURN DIFFUSER
INTERIOR CEILING MOUNTED CCTV CAMERA
ACCEPTABLE HERE
NEVER HERE
CEILING MOUNTED SMOKE, HEAT, OR CARBON MONOXIDE SENSOR
EXTERIOR WALL MOUNTED CCTV CAMERAS
4"
4"
12" (MAX)
12'
EXIT
TYPICAL ILLUMINATED EXIT SIGN
6" (MIN) & 80" (MAX) ABOVE DOOR OPENING
8'-6" WHERE POSSIBLE
FIRE ALARM AUDIO/VISUAL OR VISUAL DEVICE (ENTIRE LENS MUST BE BETWEEN 80"-96")
TYPICAL SURFACE OR FLUSH MOUNTED PANELBOARD
72"
ENTIRE LENS MUST BE BETWEEN 80" - 96"
RECEPTACLE OR GFCI ABOVE COUNTER WHERE REQUIRED
TYPICAL COUNTER TOP SURFACE
BACK SPLASH
12"
42"
≤ 5'-0"
2" MIN
6"
STRIKE SIDE OF DOOR
ACCESS CONTROLS EQUIPMENT
FIRE
FIRE ALARM MANUAL PULL STATION
WALL SWITCHES
48"
18"
THE OPERABLE PART OF ACCESS CONTROLS EQUIPMENT SHALL BE MOUNTED AT 48"
THE OPERABLE PART OF THE PULL STATION SHALL BE BETWEEN 42" - 48"
COMMUNICATION OUTLETS &/OR WIRING DEVICES, ALIGN ALONG A CENTER LINE IF DEVICES INSTALLED ON THE SAME VERTICAL PLANE
RECEPTACLES & OTHER WIRING DEVICES

① TYPICAL DEVICE & EQUIPMENT INSTALLATION HEIGHTS

SCALE: NONE



WALL MOUNTED PANELS

(INCLUDING POWER PANELS, CONTRACTORS, CONTROL CABINETS, DISCONNECT SWITCHES, MOTOR STARTERS, TIME CLOCK & SIMILAR ELECTRICAL EQUIPMENT)

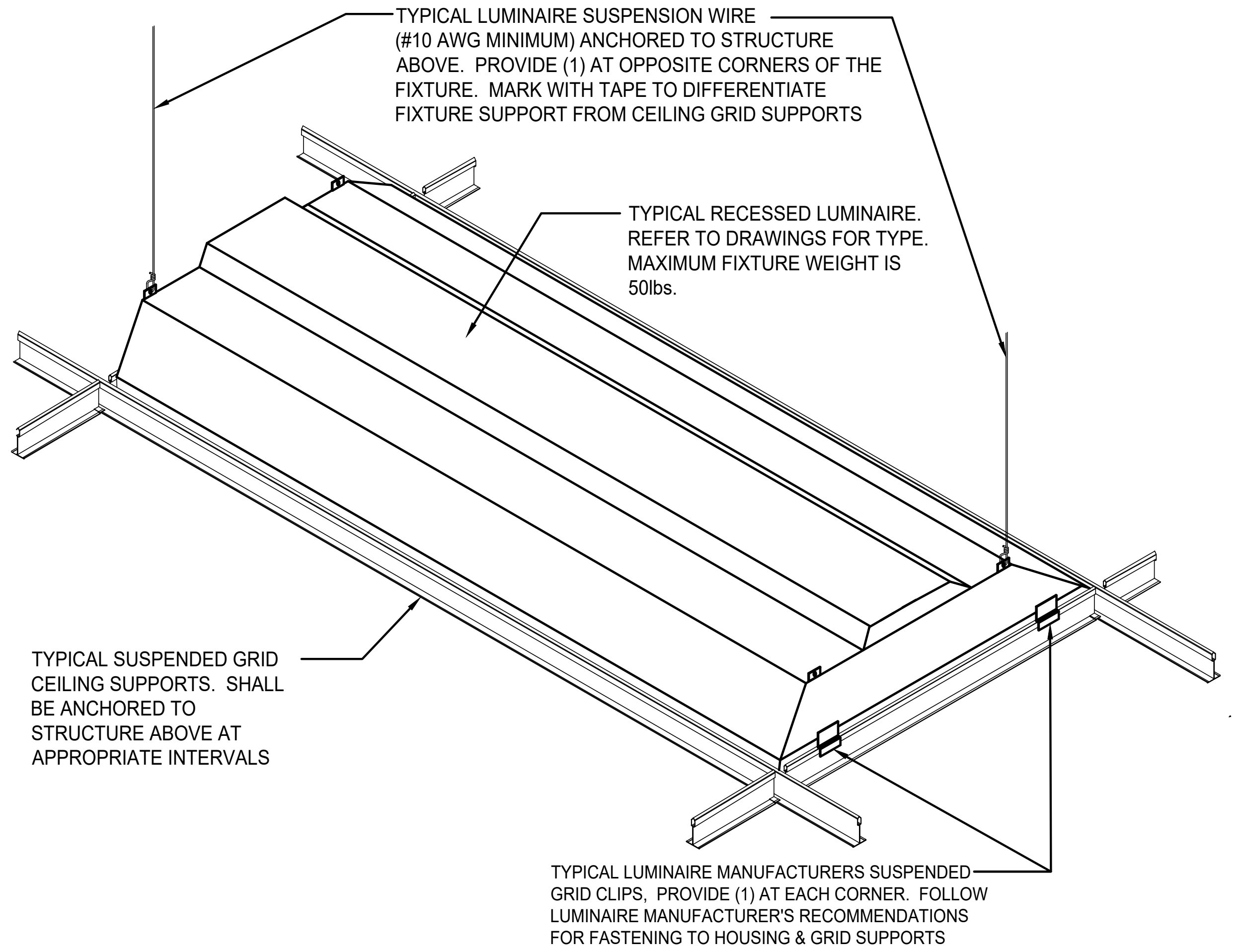
NOTES:

A. XX"* IDENTIFIES MINIMUM WORKING SPACE CLEARANCE REQUIREMENTS
[IN THE DIRECTION OF ACCESS TO LIVE PARTS AS REQUIRED PER NFPA 70, SECTION 110.26(a)]
- 36" FOR 0-150V PHASE TO GROUND ELECTRIC EQUIPMENT.
- 42" FOR 150-600V PHASE TO GROUND EQUIPMENT (CONDITION 2 "LIVE TO GROUND")
- 48" FOR 150-600V PHASE TO GROUND EQUIPMENT (CONDITION 3 "BETWEEN LIVE EQUIPMENT")

B. MINIMUM WORKING SPACE HEAD ROOM SHALL BE 78" AFF.

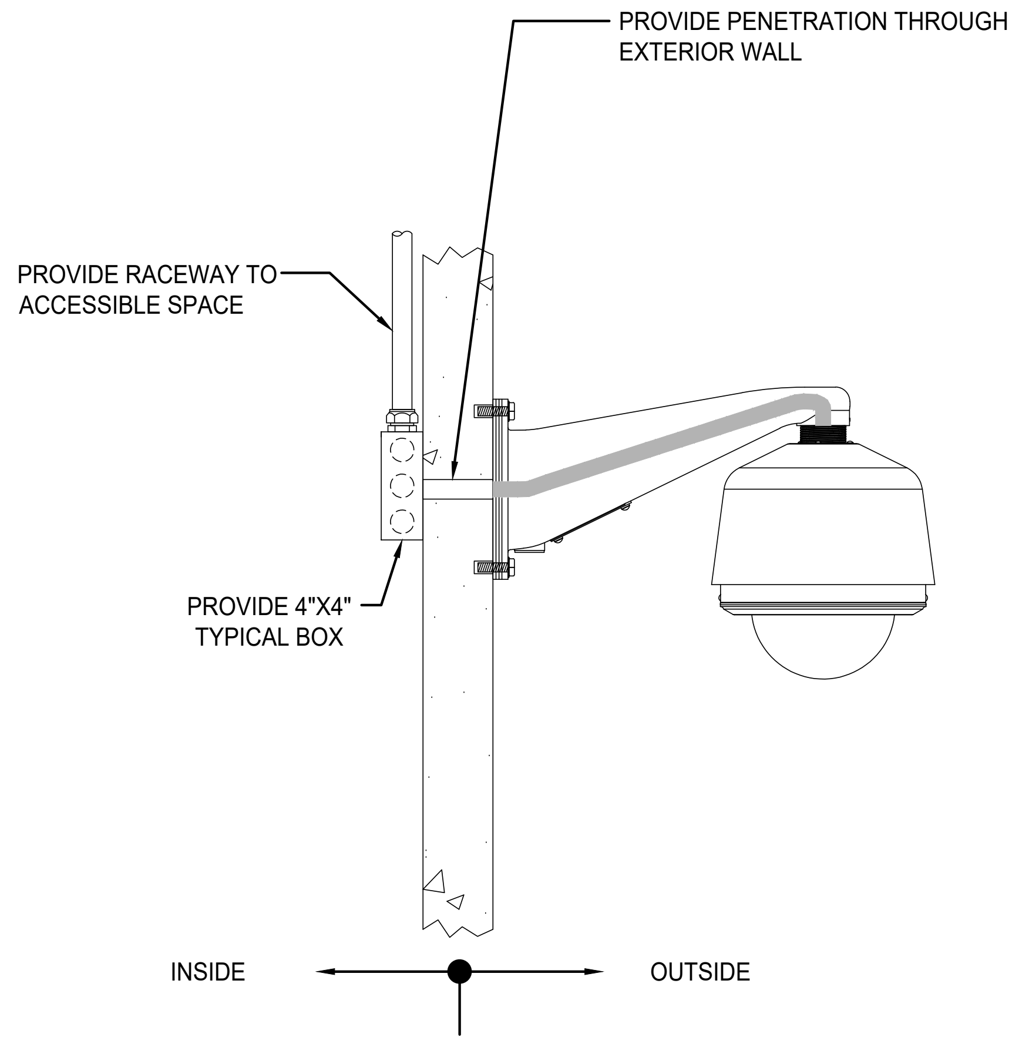
② TYPICAL ELECTRICAL EQUIPMENT CLEARANCES

SCALE: NONE


TYPICAL LUMINAIRE SUSPENSION WIRE (#10 AWG MINIMUM) ANCHORED TO STRUCTURE ABOVE. PROVIDE (1) AT OPPOSITE CORNERS OF THE FIXTURE. MARK WITH TAPE TO DIFFERENTIATE FIXTURE SUPPORT FROM CEILING GRID SUPPORTS
TYPICAL RECESSED LUMINAIRE. REFER TO DRAWINGS FOR TYPE. MAXIMUM FIXTURE WEIGHT IS 50lbs.
TYPICAL SUSPENDED GRID CEILING SUPPORTS. SHALL BE ANCHORED TO STRUCTURE ABOVE AT APPROPRIATE INTERVALS
TYPICAL LUMINAIRE MANUFACTURERS SUSPENDED GRID CLIPS, PROVIDE (1) AT EACH CORNER. FOLLOW LUMINAIRE MANUFACTURER'S RECOMMENDATIONS FOR FASTENING TO HOUSING & GRID SUPPORTS

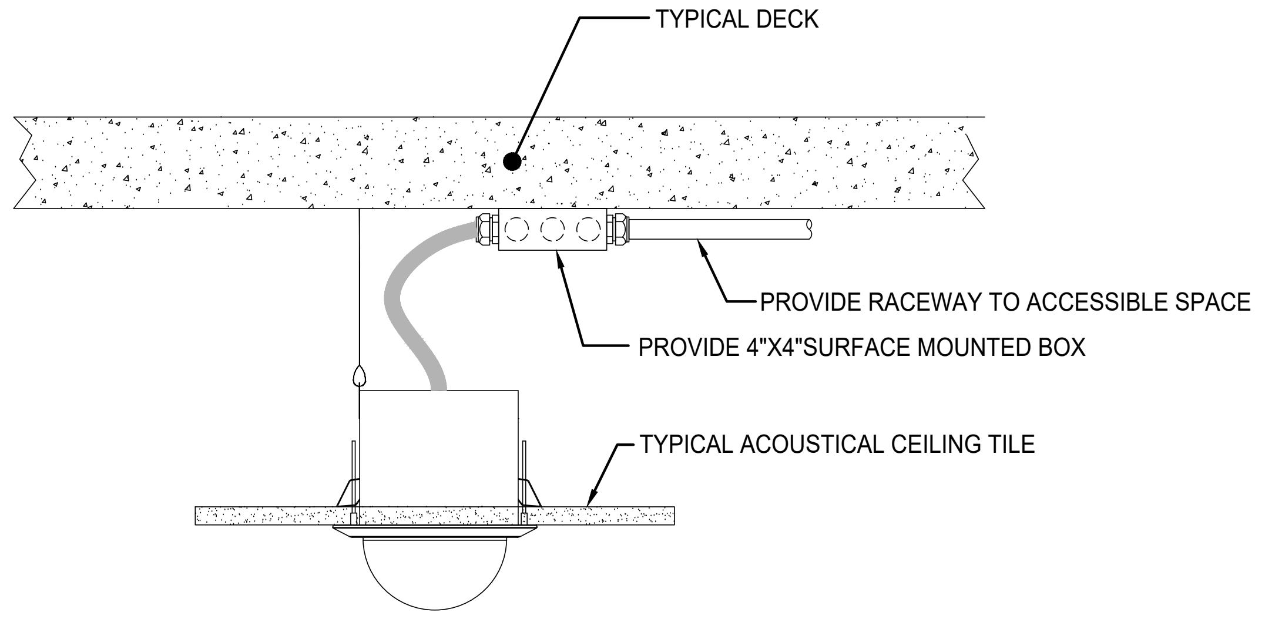
③ TYPICAL TROFFER INSTALLATION DETAIL

SCALE: NONE


PROVIDE PENETRATION THROUGH EXTERIOR WALL
PROVIDE RACEWAY TO ACCESSIBLE SPACE
PROVIDE 4"X4" TYPICAL BOX
INSIDE
OUTSIDE

④ EXTERIOR WALL MOUNTED TYPICAL CCTV CAMERA DETAIL

SCALE: NONE


TYPICAL DECK
PROVIDE RACEWAY TO ACCESSIBLE SPACE
PROVIDE 4"X4"SURFACE MOUNTED BOX
TYPICAL ACOUSTICAL CEILING TILE

⑤ INTERIOR FLUSH CEILING MOUNTED TYPICAL CCTV CAMERA DETAIL

SCALE: NONE

ALPHA BLDG SET 09-01-2026

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

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616202
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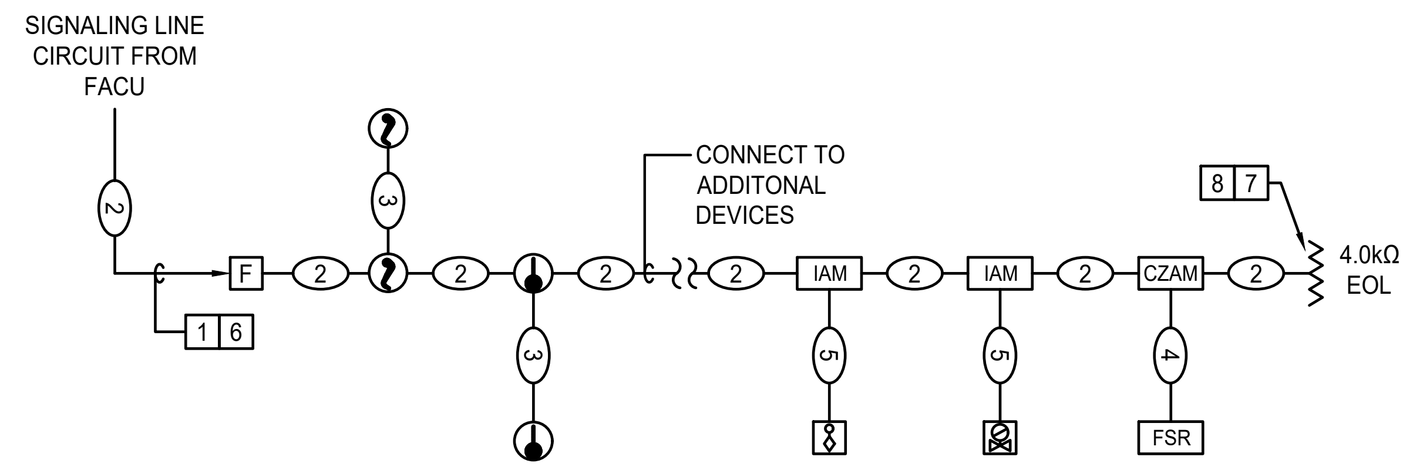
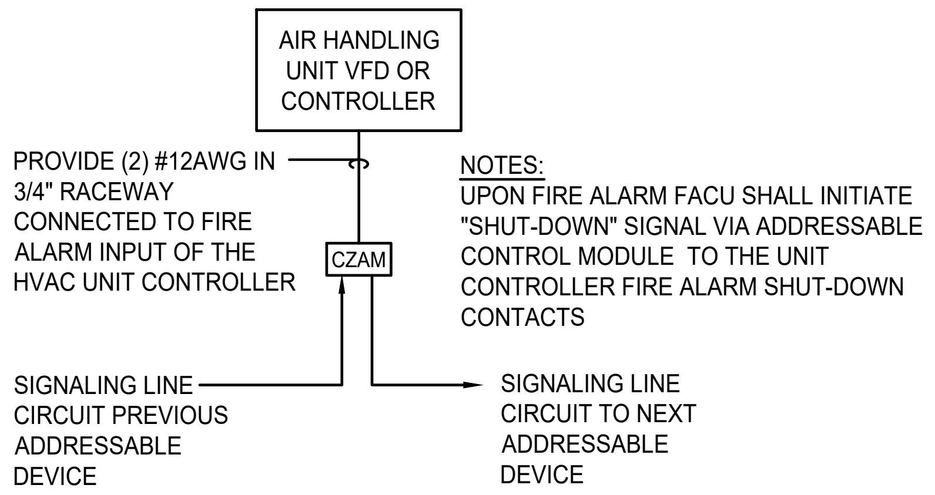
ELECTRICAL
DETAILS

DRAWING NUMBER
E401


SIGNALING LINE CIRCUIT FROM FACU
CONNECT TO ADDITONAL DEVICES
F
IAM
IAM
CZAM
FSR
1 6
8 7
2
3
5
4
4.0kΩ EOL

1 TYPICAL WIRING FOR SLC CIRCUIT
SCALE: NONE


AIR HANDLING UNIT VFD OR CONTROLLER
PROVIDE (2) #12AWG IN 3/4" RACEWAY CONNECTED TO FIRE ALARM INPUT OF THE HVAC UNIT CONTROLLER
CZAM
SIGNALING LINE CIRCUIT PREVIOUS ADDRESSABLE DEVICE
SIGNALING LINE CIRCUIT TO NEXT ADDRESSABLE DEVICE

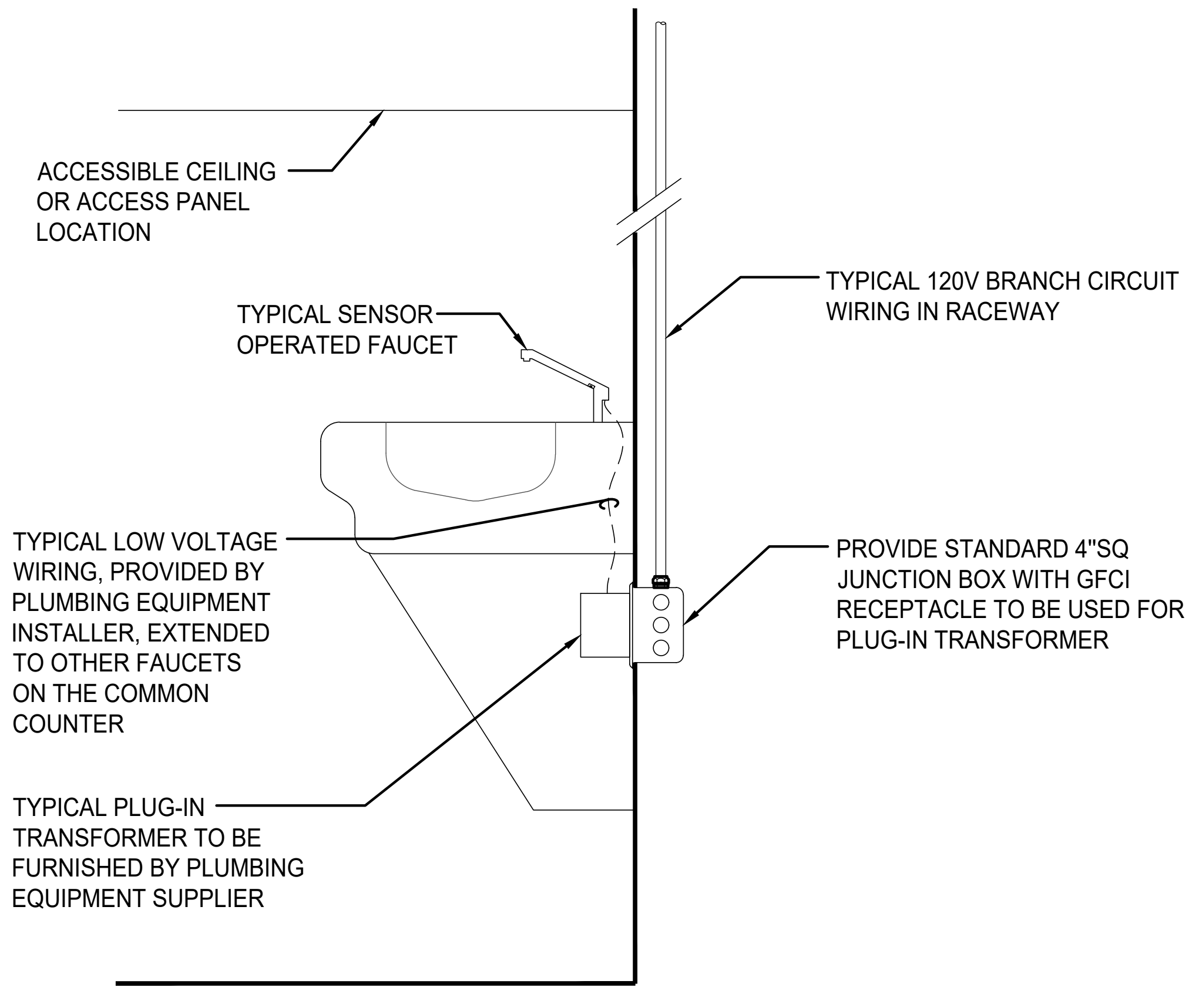
NOTES:
UPON FIRE ALARM FACU SHALL INITIATE "SHUT-DOWN" SIGNAL VIA ADDRESSABLE CONTROL MODULE TO THE UNIT CONTROLLER FIRE ALARM SHUT-DOWN CONTACTS

3 TYPICAL FAN SHUTDOWN RELAY WIRING DIAGRAM
SCALE: NONE

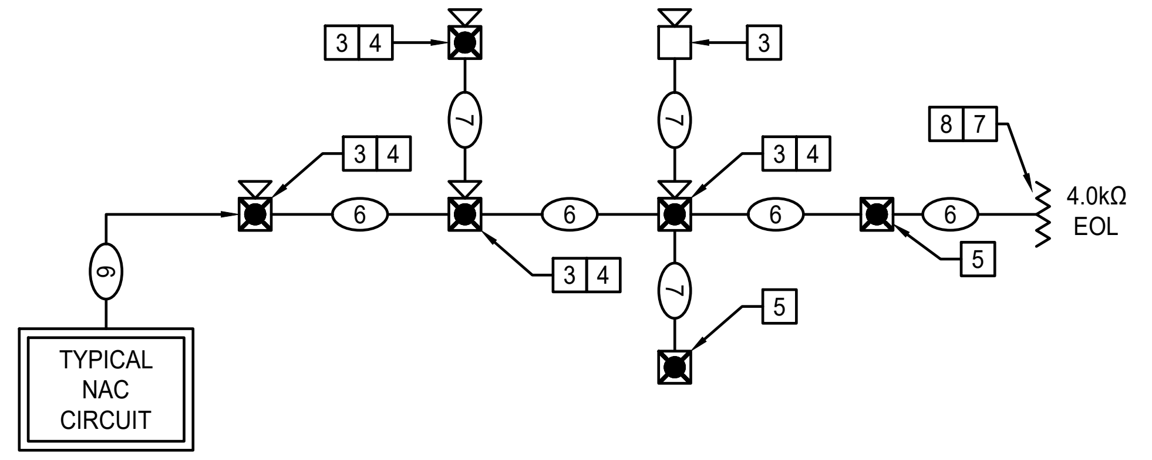
FIRE ALARM SYSTEM WIRING NOTES:

1. (2) #14 AWG IN 3/4" RACEWAY
2. (1) SIGNALING LINE CIRCUIT CABLE - (2) #18 AWG
3. (2) SIGNALING LINE CIRCUIT CABLES (1 IN & 1 OUT) - (2) #18 AWG & (2) #18 AWG
4. (1) SYSTEM POWER CIRCUIT CABLE (24VDC) - (2) #14 AWG
5. (1) NON DATA CONDUCTORS - (2) #14 AWG IN FLEXIBLE METAL RACEWAY.
6. (1) NOTIFICATION APPLIANCE CIRCUIT CABLE - (2) #14 AWG
7. (2) NOTIFICATION APPLIANCE CIRCUIT CABLES (1 IN & 1 OUT) - (2) #14 AWG & (2) #14 AWG

* ALL WIRING REQUIREMENTS ARE TO BE VERIFIED WITH SELECTED FIRE ALARM SYSTEM PROVIDER. ADDITIONAL COMPENSATION WILL NOT BE PROVIDED FOR FAILURE TO PROVIDE WIRING PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.

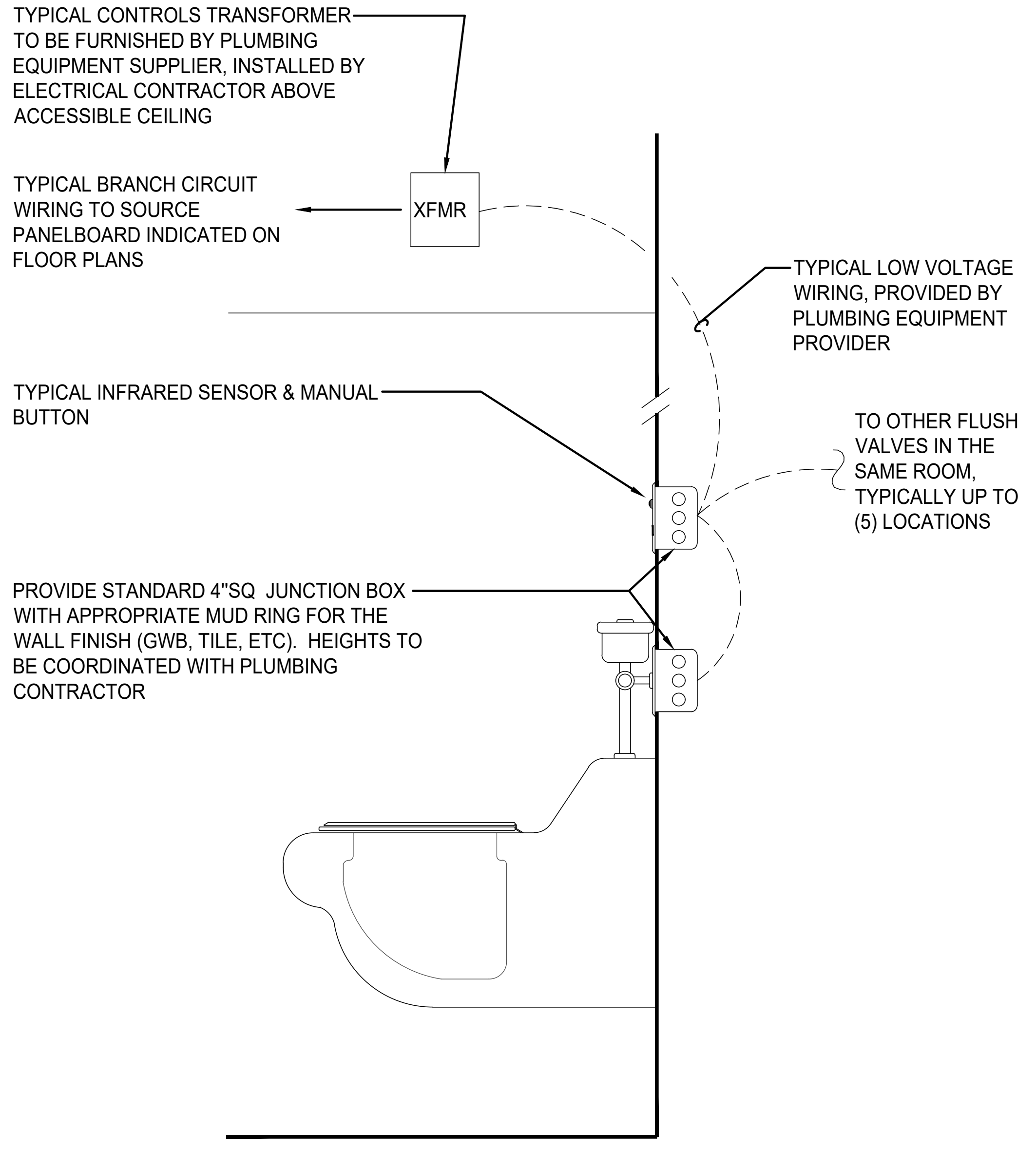

ACCESSIBLE CEILING OR ACCESS PANEL LOCATION
TYPICAL SENSOR OPERATED FAUCET
TYPICAL 120V BRANCH CIRCUIT WIRING IN RACEWAY
TYPICAL LOW VOLTAGE WIRING, PROVIDED BY PLUMBING EQUIPMENT INSTALLER, EXTENDED TO OTHER FAUCETS ON THE COMMON COUNTER
PROVIDE STANDARD 4"SQ JUNCTION BOX WITH GFCI RECEPTACLE TO BE USED FOR PLUG-IN TRANSFORMER
TYPICAL PLUG-IN TRANSFORMER TO BE FURNISHED BY PLUMBING EQUIPMENT SUPPLIER

4 LAVATORY FAUCETS WIRING DETAIL
SCALE: NONE

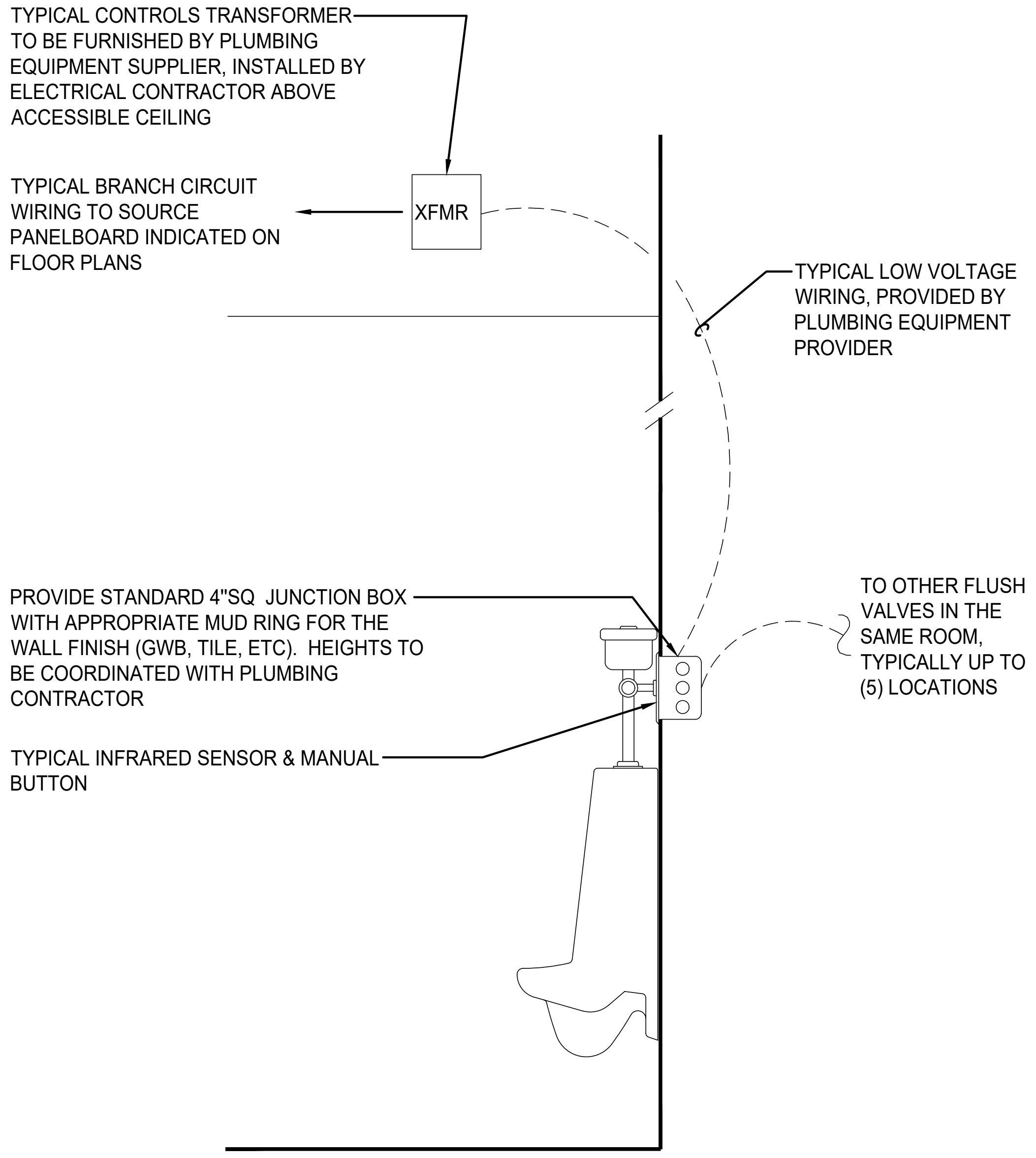


2 TYPICAL NOTIFICATION CIRCUIT
SCALE: NONE

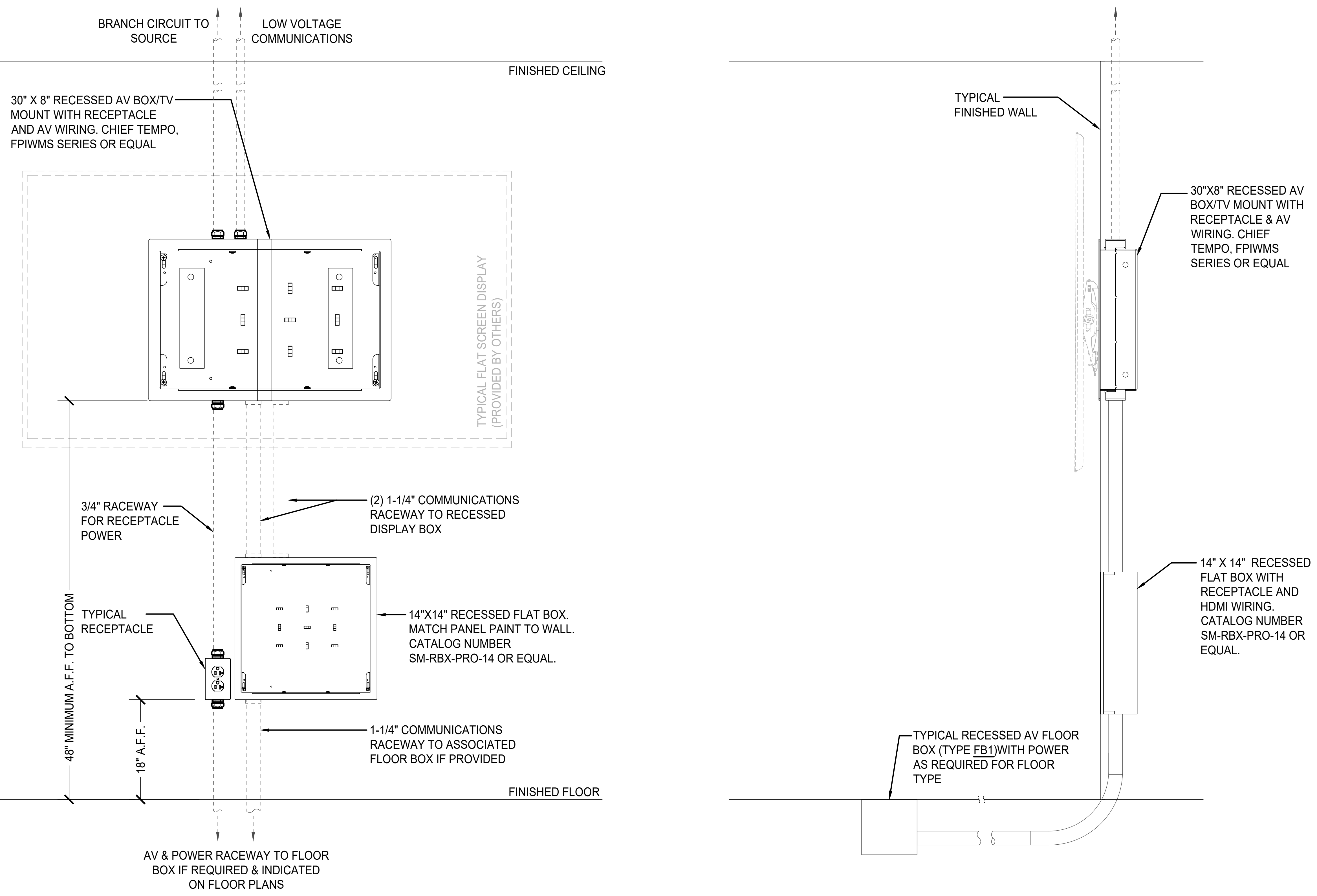
ALPHA BLDG SET 09-01-2026


TYPICAL CONTROLS TRANSFORMER TO BE FURNISHED BY PLUMBING EQUIPMENT SUPPLIER, INSTALLED BY ELECTRICAL CONTRACTOR ABOVE ACCESSIBLE CEILING
TYPICAL BRANCH CIRCUIT WIRING TO SOURCE PANELBOARD INDICATED ON FLOOR PLANS
XFMR
TYPICAL LOW VOLTAGE WIRING, PROVIDED BY PLUMBING EQUIPMENT PROVIDER
TYPICAL INFRARED SENSOR & MANUAL BUTTON
TO OTHER FLUSH VALVES IN THE SAME ROOM, TYPICALLY UP TO (5) LOCATIONS
PROVIDE STANDARD 4"SQ JUNCTION BOX WITH APPROPRIATE MUD RING FOR THE WALL FINISH (GWB, TILE, ETC). HEIGHTS TO BE COORDINATED WITH PLUMBING CONTRACTOR

5 FLUSH VALVE WIRING DETAIL
SCALE: NONE


TYPICAL CONTROLS TRANSFORMER TO BE FURNISHED BY PLUMBING EQUIPMENT SUPPLIER, INSTALLED BY ELECTRICAL CONTRACTOR ABOVE ACCESSIBLE CEILING
TYPICAL BRANCH CIRCUIT WIRING TO SOURCE PANELBOARD INDICATED ON FLOOR PLANS
XFMR
TYPICAL LOW VOLTAGE WIRING, PROVIDED BY PLUMBING EQUIPMENT PROVIDER
TO OTHER FLUSH VALVES IN THE SAME ROOM, TYPICALLY UP TO (5) LOCATIONS
PROVIDE STANDARD 4"SQ JUNCTION BOX WITH APPROPRIATE MUD RING FOR THE WALL FINISH (GWB, TILE, ETC). HEIGHTS TO BE COORDINATED WITH PLUMBING CONTRACTOR
TYPICAL INFRARED SENSOR & MANUAL BUTTON

6 URINAL FLUSH VALVE WIRING DETAIL
SCALE: NONE


BRANCH CIRCUIT TO SOURCE
LOW VOLTAGE COMMUNICATIONS
FINISHED CEILING
30" X 8" RECESSED AV BOX/TV MOUNT WITH RECEPTACLE AND AV WIRING. CHIEF TEMPO, FPIWMS SERIES OR EQUAL
TYPICAL FLAT SCREEN DISPLAY (PROVIDED BY OTHERS)
3/4" RACEWAY FOR RECEPTACLE POWER
(2) 1-1/4" COMMUNICATIONS RACEWAY TO RECESSED DISPLAY BOX
TYPICAL RECEPTACLE
14"X14" RECESSED FLAT BOX. MATCH PANEL PAINT TO WALL. CATALOG NUMBER SM-RBX-PRO-14 OR EQUAL.
48" MINIMUM A.F.F. TO BOTTOM
18" A.F.F.
1-1/4" COMMUNICATIONS RACEWAY TO ASSOCIATED FLOOR BOX IF PROVIDED
FINISHED FLOOR
AV & POWER RACEWAY TO FLOOR BOX IF REQUIRED & INDICATED ON FLOOR PLANS
BRANCH CIRCUIT TO SOURCE
TYPICAL FINISHED WALL
30"X8" RECESSED AV BOX/TV MOUNT WITH RECEPTACLE & AV WIRING. CHIEF TEMPO, FPIWMS SERIES OR EQUAL
14" X 14" RECESSED FLAT BOX WITH RECEPTACLE AND HDMI WIRING. CATALOG NUMBER SM-RBX-PRO-14 OR EQUAL.
TYPICAL RECESSED AV FLOOR BOX (TYPE FB1)WITH POWER AS REQUIRED FOR FLOOR TYPE

FRONT VIEW

7 TYPICAL AV RACEWAY FOR CONFERENCE ROOM
SCALE: NONE

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BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328
wendel

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GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE046069
JESSE F. WENDELL
08/20/2026

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NCWSA
NEWTON COUNTY WATER & SEWERAGE AUTHORITY

NCWSA OFFICE ADDITION

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E402

ALPHA BLDG SET 09-01-2026

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	SHIELDING	DRIVER	LIGHT SOURCE	INPUT WATTS	BASIS OF DESIGN
A6	NOMINAL 6" DIAMETER, RECESSED, LED DOWNLIGHT WITH FOLLOWING MINIMUM SPECIFICATIONS: WIDE BEAM, 2-STAGE REFLECTOR SYSTEM SPECIFICALLY DESIGNED FOR LED SOURCES. FIXTURE MOUNTED JUNCTION BOX WITH DRIVER PRE-WIRED TO THE LED ENGINE. SPECULAR CLEAR REFLECTOR. PROVIDE COMPLETE WITH ALL REQUIRED INSTALLATION HARDWARE, ADJUSTABLE HANGERS, & CEILING CLIPS FOR INSTALLATION IN ASSOCIATED CEILINGS. CEILING TYPES SHALL BE VERIFIED PRIOR TO SUBMITTAL. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS, ENERGY STAR & UL LISTED.	RECESSED	LENSED	TYPE: (1) LED DRIVER, VOLTAGE: 120-277VAC DIMMING: 0-10V EMERGENCY: INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	TYPE: (1) LED ARRAY LUMENS: 1,500 DELIVERED CCT: 3500K CRI: 90 MIN	16.2	PORTFOLIO - LD6C SERIES OR EQUAL
T22	2X2, RECESSED, STATIC, LED ARCHITECTURAL LENSED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: RIGID DIE FORMED CODE GAUGE PRIME COLD ROLLED STEEL WITH FULL LENGTH DIE FORMED STIFFENERS, HEAVY GAUGE FLAT STEEL DOOR WITH REINFORCED MITERED CORNERS. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.	RECESSED	CENTER DIFFUSER-RIBBED FROSTED EXTRUDED ACRYLIC	TYPE: (1) LED DRIVER VOLTAGE: 120-277VAC DIMMING: 0-10V, DOWN TO 10% EMERGENCY: INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 2,000 DELIVERED CCT: 3500K CRI: 85 MIN	16.2	METALUX - CRUZE 22CZ SERIES OR EQUAL
T42	2X4, RECESSED, STATIC, LED ARCHITECTURAL LENSED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: RIGID DIE FORMED CODE GAUGE PRIME COLD ROLLED STEEL WITH FULL LENGTH DIE FORMED STIFFENERS, HEAVY GAUGE FLAT STEEL DOOR WITH REINFORCED MITERED CORNERS. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.	RECESSED	CENTER DIFFUSER-RIBBED FROSTED EXTRUDED ACRYLIC	TYPE: (1) LED DRIVER VOLTAGE: 120-277VAC DIMMING: 0-10V EMERGENCY: INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 5,000 DELIVERED CCT: 3500K CRI: 80 MIN	39.6	METALUX - CRUZE 24CZ SERIES OR EQUAL
TR42	2X4, RECESSED, STATIC, LED ARCHITECTURAL LENSED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: RIGID DIE FORMED CODE GAUGE PRIME COLD ROLLED STEEL WITH FULL LENGTH DIE FORMED STIFFENERS, HEAVY GAUGE FLAT STEEL DOOR WITH REINFORCED MITERED CORNERS. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS. PROVIDE WITH AIR VERSION INTENDED FOR AIR RETURN THROUGH PLENUM. AIR VERSION REQUIRES PAINTED AFTER FABRICATION OPTION.	RECESSED	CENTER DIFFUSER-RIBBED FROSTED EXTRUDED ACRYLIC	TYPE: (1) LED DRIVER VOLTAGE: 120-277VAC DIMMING: 0-10V EMERGENCY: INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 5,000 DELIVERED CCT: 3500K CRI: 80 MIN	39.6	METALUX - CRUZE 24CZ SERIES OR EQUAL
TH42	2X4, RECESSED, STATIC, LED ARCHITECTURAL LENSED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: RIGID DIE FORMED CODE GAUGE PRIME COLD ROLLED STEEL WITH FULL LENGTH DIE FORMED STIFFENERS, HEAVY GAUGE FLAT STEEL DOOR WITH REINFORCED MITERED CORNERS. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.	RECESSED	CENTER DIFFUSER-RIBBED FROSTED EXTRUDED ACRYLIC	TYPE: (1) LED DRIVER VOLTAGE: 120-277VAC DIMMING: 0-10V EMERGENCY: INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 7,500 DELIVERED CCT: 3500K CRI: 80 MIN	55.4	METALUX - CRUZE 24CZ SERIES OR EQUAL
SW4	NARROW, 4FT, PENDANT OR SURFACE MOUNTED, LED, LENSED BARE STRIPLIGHT TYPE LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL CONSIST OF DIE FORMED CHANNEL THAT IS COLD ROLLED HEAVY GAGE STEEL. CHANNEL HOUSING SHALL CONTAIN LED DRIVER & PROVIDE AN ASSEMBLY FOR MOUNTING LED ARRAYS & CURVED LENSING OPTIONS. LUMINAIRE SHALL DESIGNED & MANUFACTURED TO ALLOW FOR WIDE OPTICAL DISTRIBUTION. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS. DLC LISTED.	PENDANT OR SURFACE	WIDE DISTRIBUTION CURVED ACRYLIC LENS	TYPE: (1) LED DRIVER VOLTAGE: 120-277VAC DIMMING: 0-10V EMERGENCY: INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 4,400 DELIVERED CCT: 3500K CRI: 85 MIN	37	METALUX - SNLED LENSED SERIES OR EQUAL
P8	8FT, PENDANT LINER SLOT TYPE LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL BE EXTRUDED ALUMINUM WITH SNAP-IN LENS. 4" WIDE HOUSING INTEGRAL ELECTRICAL COMPONENTS ACCESSIBLE FROM BELOW. PROVIDE COMPLETE WITH ALL REQUIRED HARDWARE.	PENDANT	SNAP-IN, SATIN FLUSH DIFFUSER	TYPE: (1) LED DRIVER VOLTAGE: 120-277VAC DIMMING: 0-10V EMERGENCY: INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 6,360 DELIVERED CCT: 3500K CRI: 90 MIN	53.6	FINELITE - HP-4 INDIRECT/DIRECT LED SERIES OR EQUAL
UC1	FLEXABLE LINEAR LED TAPE STRIP LIGHTING WITH THE FOLLOWING MINIMUM SPECIFICATIONS: TAPE LED TO BE DIMMABLE, INDUSTRIAL HEAVY DUTY ADHESIVE BACKING, INTERVAL CUT LENGTHS NOT TO EXCEED 2". PROVIDE WITH 24 VOLT POWER SUPPLY. PROVIDE KELVIX EXTRUDED ALUMINUM MOUNTING CHANNEL CH-014-C FOR SURFACE MOUNTED INSTALLATION, FROSTED LENS AND END CAPS	SURFACE	FROSTED	TYPE: (1) LED DRIVER VOLTAGE: 120-277VAC DIMMING: 0-10V EMERGENCY: INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 300 DELIVERED PER FT CCT: 3500K CRI: 90 MIN	3.9 PER FOOT	KELVIX DIRECT VIEW 300 SERIES OR EQUAL
EX	ILLUMINATED "EXIT" SIGN. SHALL BE CONCEALED LED TYPE IN WHITE STEEL HOUSING. DESIGNED FOR SELF POWERED OPERATION WITH BATTERY BACKUP & INTEGRAL TEST CAPABILITY. UNIVERSAL MOUNTING CAPABILITY. UNIVERSAL CHEVRON STYLE KNOCKOUTS. REFER TO DRAWINGS FOR REQUIRED DIRECTIONS. SHALL BE DESIGNED & MANUFACTURED TO MEET UL 924 STANDARD.	SURFACE OR WALL MOUNTED	N/A	TYPE: LED DRIVER VOLTAGE: 120-277VAC DIMMING: N/A EMERGENCY: N/A	SOURCE: LONG LIFE RED LED LUMENS: N/A CCT: N/A CRI: N/A	1	SURE-LITES - SLX SERIES OR EQUAL

GENERAL LUMINAIRE SCHEDULE NOTES:

A. UNLESS OTHERWISE NOTED, BASIS OF DESIGN MANUFACTURER'S NAMES AND CATALOG NUMBERS ARE USED FOR QUALITY AND PERFORMANCE ONLY. WHERE INDICATED "OR EQUAL" LUMINAIRE AND THEIR ASSOCIATED DEVICES MANUFACTURED BY OTHERS SHALL BE EQUALY ACCEPTABLE PROVIDED THEY MEET OR EXCEED IN PERFORMACE AND QUALITY OF THE BASIS OF DESIGN LUMINAIRE.

B. CONTRACTOR SHALL VERIFY VOLTAGE SUPPLY TO EACH LUMINAIRE PRIOR TO ORDERING THE APPROVED FIXTURE.

C. ALL LUMINIARES SHALL BE FURNISHED COMPLETE WITH SPECIFIED LAMPS IF APPLICABLE.

D. LUMINAIRES SHALL BE INDEPENDENTLY SUPPORTED IN ACCORDANCE WITH ALL APPLICABLE CODES & SPECIFICATIONS

E. CONTRACTOR SHALL VERIFY CEILING TYPE FOR EACH LUMINAIRE LOCATION & ORDER ACCORDINGLY.

F. ALL LED LUMINAIRES SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.

G. CONTRACTOR SHALL VERIFY ALL MOUTING REQUIREMENTS OF EACH EXIT SIGN PRIOR TO ORDERING, AS WELL AS DIRECTIONAL REQUIREMENTS.

H. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING LUMINAIRE AND INSTALLATION REQUIREMENTS. PROVIDE ALL LISTED OPTIONS AND ACCESSORIES.

I. UNLESS OTHERWISE NOTED, REMOTE POWER SUPPLIES SHALL BE LOCATED IN NEARBY, DRY, VENTILATED LOCATION, MINIMIZE DISTANCE AND PROVIDE CONDUCTOR SIZE AS REQUIRED BY THE MANUFACTURER.

J. UNLESS OTHERWISE NOTED, ALL EMERGENCY BATTERY/DRIVERS SHALL BE WIRED FOR A SWITCHED CIRCUIT. REFER TO MANUFACTURER INSTRUCTIONS FOR WIRING INFORMATION

Brown AND Caldwell
BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

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No. PE046069
JESSE F. WENDELL
08/20/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MAP
DRAWN: MAP
CHECKED: JFW
CHECKED:
APPROVED:

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

ELECTRICAL

LUMINAIRE SCHEDULE

DRAWING NUMBER
E501

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT								POWER SUPPLY					CONTROL DEVICES														
ITEM DESIGNATION	EQUIPMENT NAME	ROOM/LOCATION	HP	kW	AMPS	PHASE	VOLTAGE	SOURCE	CIRCUIT BREAKER	CONDUCTOR SIZE (AWG) COPPER	GROUND SIZE (AWG) COPPER	RACEWAY SIZE	DISCONNECT SWITCH			STARTER NEMA SIZE	COMBINATION FVNR MOTOR STARTER/DISCONNECT SWITCH	FRACTIONAL HP DISCONNECT SWITCH	DISCONNECT SWITCH AT UNIT (SUPPLIED BY OTHERS)	PACKAGED CONTROL UNIT (SUPPLIDED BY OTHERS)	THERMOSTAT CONNECTION (LINE VOLTAGE)	VARIABLE FREQUENCY DRIVE (PROVIDED BY OTHERS)	DUCT DETECTOR WITH TEST STATION		FIRE ALARM FAN SHUTDOWN		NOTES
													SWITCH AMPS	FUSE AMPS	LOCATION								RETURN	SUPPLY	RETURN	SUPPLY	
RTU-1	ROOFTOP UNIT	ROOF			62.0	3	208	MDP	80A/3P	(3)#2	#8	1-1/4"							X			X	X	X	X	X	1,2
RTU-2	ROOFTOP UNIT	ROOF			62.0	3	208	MDP	80A/3P	(3)#2	#8	1-1/4"							X			X	X	X	X	X	1,2
RTU-3	ROOFTOP UNIT	ROOF			68.0	3	208	MDP	90A/3P	(3)#2	#8	1-1/4"							X			X	X	X	X	X	1,2
EF-1	EXHAUST FAN	ROOF	1/4			1	120	PP1	15A/1P	(2)#12	#12	3/4"							X								1
VAV1-1	VARIABLE AIR VOLUME	LOBBY - 101		4.9	13.6	3	208	PP1	20A/3P	(3)#12	#12	3/4"							X								1
VAV1-2	VARIABLE AIR VOLUME	PREFUNCTION - 144		6.1	16.9	3	208	PP1	30A/3P	(3)#10	#10	3/4"							X								1
VAV1-3	VARIABLE AIR VOLUME	LOFT - 259		2.8	7.8	3	208	PP1	20A/3P	(3)#12	#12	3/4"							X								1
VAV1-4	VARIABLE AIR VOLUME	LOFT - 259		3.1	8.6	3	208	PP1	20A/3P	(3)#12	#12	3/4"							X								1
VAV2-1	VARIABLE AIR VOLUME	LOFT - 259		3.8	10.6	3	208	PP1	20A/3P	(3)#10	#10	3/4"							X								1
VAV2-2	VARIABLE AIR VOLUME	CORRIDOR - 261		4.4	12.2	3	208	PP1	20A/3P	(3)#10	#10	3/4"							X								1
VAV2-3	VARIABLE AIR VOLUME	CORRIDOR - 261		3.2	8.9	3	208	PP1	20A/3P	(3)#12	#12	3/4"							X								1
VAV2-4	VARIABLE AIR VOLUME	CORRIDOR - 262		3.2	8.9	3	208	PP1	20A/3P	(3)#12	#12	3/4"							X								1
VAV2-5	VARIABLE AIR VOLUME	CORRIDOR - 261		2.5	6.9	3	208	PP1	20A/3P	(3)#12	#12	3/4"							X								
VAV3-1	VARIABLE AIR VOLUME	STORAGE - 142		5.7	15.8	3	208	PP1	20A/3P	(3)#12	#12	3/4"							X								1
VAV3-2	VARIABLE AIR VOLUME	STORAGE - 142		3.8	10.6	3	208	PP1	20A/3P	(3)#12	#12	3/4"							X								1
VAV3-3	VARIABLE AIR VOLUME	STORAGE - 142		3.6	10.0	3	208	PP1	20A/3P	(3)#12	#12	3/4"							X								1
HWRP-1	HOT WATER RETURN PUMP	STORAGE - 249			0.8	1	120	PP1	15A/1P	(2)#12	#12	3/4"							X								1
EWH-1	ELECTRIC WATER HEATER	CLOSET - 250		6.0	28.8	1	208	PP1	40A/2P	(2)#8	#10	1"															1

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

1. PROVIDE HACR TYPE CIRCUIT BREAKER FOR THIS EQUIPMENT.
2. EXISTING FIRE ALARM DUCT DETECTORS LOCATED DOWNSTREAM OF THE AIR HANDLING UNIT ARE TO REMAIN FOR REUSE.
3. REUSE EXISTING EMERGENCY POWER FEED FOR THE SMOKE PURGE SYSTEM. MAKE ALL REQUIRED ELECTRICAL TERMINATIONS FOR THE SMOKE PURGE SYSTEM.

ALPHA BLDG SET 09-01-2026

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

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GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE046069
JESSE F. WENDELL
08/20/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

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LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: MAP
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APPROVED:

FILENAME

BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

ELECTRICAL

MECHANICAL EQUIPMENT CONNECTIONS SCHEDULE

DRAWING NUMBER
E502

EXISTING PANELBOARD SCHEDULE

PANELBOARD: **MPL**
NAME
VOLTS: **208 Y/120** 3Ø 4-WIRE
BUS CAPACITY: **175** A AIC: **42kA**
MCB: **175** A MTG: **SURFACE**
MLO: ENCL: **NEMA 1**
TELE. RM E-118
LOCATION

No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.
1	20A/1P	LTS. VAULT, BR, WATER COOLER			0					RECEPTACLES RM. 109	20A/1P	2
3	20A/1P	LIGHTS ROOM 103				0				LIGHTS RM. 105, 106, 107, 116	20A/1P	4
5	20A/1P	LIGHTS CASHIER & LOBBY					0			LIGHTS RM. 108-110	20A/1P	6
7	20A/1P	ELEVATOR LIGHTS			0					FIRLE ALARM PANEL	20A/1P	8
9	20A/1P	ELEVATOR RM. PIT, LT/REC				0				RECEPT. AT PHONE BOARD	20A/1P	10
11	20A/1P	RECEPT. RM. 110, 111					0			RECEPT. R. 107 GFI/WATER COOLER	20A/1P	12
13	20A/1P	RECEPT. HALL/OFF. 112, 113			0					PANEL L3	100A/3P	14
15	20A/1P	QUAD RECEPT. RM. 105				0						16
17	20A/1P	RECEPT. HALL, RM. 105					0					18
19	20A/1P	RECEPT. RM 103			0					ELEVATOR	100A/3P	20
21	20A/1P	RECEPT. CASHIER/ CUST. LOBBY				0						22
23	20A/1P	RECEPT. UNDER DRIVE-THRU COUNT.					0					24
25	20A/1P	BATHROOM LIGHTS			0					FURNACE #13	20A/2P	26
27	20A/1P	LIGHTS RM. 111, 112, 113				0						28
29	20A/1P	SPARE					0			FURNACE #11	20A/2P	30
31	20A/1P	SPARE			0							32
33	20A/1P	SPARE				0				FURNACE #12	35A/3P	34
35	20A/1P	OUTSIDE LIGHTS DRIVE-THRU					0					36
37	20A/1P	SM. CAN LIGHTS HALL			0							38
39	20A/1P	HALL & EMERGENCY LIGHTS				0				OUTSIDE LIGHTS BAVK DOOR	20A/1P	40
41	20A/1P	SPRINKLER PUMP					0			SIGN OUT FRONT	20A/1P	42

EXISTING PANELBOARD SCHEDULE

PANELBOARD: **L2**
NAME
VOLTS: **208 Y/120** 3Ø 4-WIRE
BUS CAPACITY: **200** A AIC: **42kA**
MCB: **200** A MTG: **SURFACE**
MLO: ENCL: **NEMA 1**
TELE. RM E-118
LOCATION

No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.
1	20A/1P	LIGHTS RMS. 201 & 202			0					RECEPTS. RM. 207	20A/1P	2
3	20A/1P	RECEPT. OFFICE 202				0				RECEPTS. RM. 207	20A/1P	4
5	20A/1P	FLOOR RECEPT. CASHIER AREA DW.					0			RECEPTS. RM. 207	20A/1P	6
7	20A/1P	RECEPTS. OFFICE 201, 202			0					HALL & EMEREGENCY LIGHTS	20A/1P	8
9	20A/1P	LIGHTS RM 200				0				SM. CAN LIGHTS HALL	20A/1P	10
11	20A/1P	WATER HEATER LOBBY BATHROOM					0			AIR HANDLER #23	20A/2P	12
13	20A/1P	GFI'S RECEPTS. RM 210			0							14
15	20A/1P	TV MONITOR				0				AIR HANDLER #21	20A/2P	16
17	20A/1P	LIGHTS BATHROOM UP					0					18
19	20A/1P	LIGHTS RM 211, 212 CLOSETS			0					WATER CIRCULATOR PUMP	20A/1P	20
21	20A/1P	RECEPTS. RM. 200				0				WATER HEATER	20A/1P	22
23	20A/1P	RECEPTS. OFFS. 211, 212					0			WATER HEATER	20A/1P	24
25	20A/1P	RECEPTS. UP			0					AIR HANDLER #22	30A/3P	26
27	30A/2P	SPARE				0						28
29							0					30
31	20A/1P	LIGHTS ROOMS 207, 208, 209			0					SPARE	20A/1P	32
33	20A/1P	RECEPTS. RM. 208, 209				0				SPARE	20A/1P	34
35	20A/1P	LIGHTS ROOM 210					0			SPARE	20A/1P	36
37	20A/1P	SPARE			0					SPARE	30A/2P	38
39	30A/2P	SPARE				0						40
41							0			SPARE	20A/1P	42

EXISTING PANELBOARD SCHEDULE

PANELBOARD: **L3**
NAME
VOLTS: **208 Y/120** 3Ø 4-WIRE
BUS CAPACITY: **100** A AIC: **42kA**
MCB: MTG: **SURFACE**
MLO: **100** A ENCL: **NEMA 1**
TELE RM E-118
LOCATION

No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.
1		BLANK			0					BLANK		2
3	20A/1P	MOSLER TRAY				0				UP STAIRS REFRIDGERATOR	20A/1P	4
5	20A/1P	MOSLER BLOWER					0			ALARM CIRCUIT	20A/1P	6
7	20A/1P	HEAT IN CEILING			0					RECEPT. NEW OFFICE	20A/1P	8
9	20A/1P	REFRIDGERATOR				0				RECEPT. NEW OFFICE	20A/1P	10
11	20A/1P	RECEPT. KITCHEN					0			VAT FANS	20A/1P	12
13	20A/1P	RECEPT. LEFT OF REFRIDGERATOR			0					RANGE	40A/2P	14
15	20A/1P	RECEPT. KITCHEN				0						16
17	20A/1P	RECEPT. KITCHEN					0			BLANK		18
19	20A/1P	RECEPT. KITCHEN			0					UPS	20A/1P	20
21	20A/1P	HEAT IN CEILING				0				EXISTING CIRCUIT	20A/1P	22
23		BLANK					0			EXISTING CIRCUIT	30A/2P	24
25	20A/1P	FLOOR RECEPT, UP STAIRS			0							26
27	20A/1P	EXISTING CIRCUIT				0				EXISTING CIRCUIT	20A/1P	28
29							0			EXISTING CIRCUIT	20A/1P	30
31					0					EXISTING CIRCUIT	20A/1P	32
33		BLANK				0				EXISTING CIRCUIT	20A/1P	34
35		BLANK					0			EXISTING CIRCUIT	20A/1P	36
37		BLANK			0					EXISTING CIRCUIT	20A/1P	38
39		BLANK				0				EXISTING CIRCUIT	20A/1P	40
41		BLANK					0			BLANK		42

ALPHA BLDG SET 09-01-2026

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

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No. PE046069
JESSE F. WENDELL
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NCWSA OFFICE ADDITION

REVISIONS

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AT FULL SIZE

DESIGNED: MAP
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FILENAME
BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

ELECTRICAL

PANELBOARD SCHEDULES

DRAWING NUMBER
E503

DISTRIBUTION PANEL SCHEDULE

PANELBOARD **MDP** NAME

VOLTS: **208 Y/120** 3Ø 4-WIRE
BUS CAPACITY: **1200** A AIC: **42kA**
MCB: **1200** A MTG: **SURFACE**
MLO: ENCL: **NEMA 1**

LOCATION: **MECH/ELEC RM 141**

No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.
1					0							2
3						0						4
5							0					6
7					0							8
9						0						10
11							0					12
13					0							14
15						0						16
17							0					18
19	80A/3P	ROOF TOP UNIT - RTU-1	HVAC	7446	15613			8167	HVAC	ROOF TOP UNIT - RTU-3	90A/3P	20
21			HVAC	7446		15613		8167	HVAC			22
23			HVAC	7446			15613	8167	HVAC			24
25	80A/3P	ROOF TOP UNIT - RTU-2	HVAC	7446	26286			18840	PWR	PANELBOARD - PP1	200A/3P	26
27			HVAC	7446		26190		18744	PWR			28
29			HVAC	7446			23674	16228	PWR			30
31	100A/3P	PANELBOARD - PP2	PWR	10376	14836			4460	PWR	PANELBOARD - PP3	100A/3P	32
33			PWR	8940		13760		4820	PWR			34
35			PWR	9351			13311	3960	PWR			36
37	200A/3P	PANELBOARD - L2	PWR		0				PWR	PANELBOARD - MPL	175A/3P	38
39			PWR			0			PWR			40
41			PWR				0		PWR			42

PANELBOARD SCHEDULE

PANELBOARD **PP1** NAME

VOLTS: **208 Y/120** 3Ø 4-WIRE
BUS CAPACITY: **200** A AIC: **42kA**
MCB: MTG: **SURFACE**
MLO: **200** A ENCL: **NEMA 1**

LOCATION: **MECH/ELEC RM 141**

No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.
1	20A/3P	VAV1-1	HVAC	1670	2739			1069	HVAC	VAV2-4	20A/3P	2
3			HVAC	1670		2739		1069	HVAC			4
5			HVAC	1670			2739	1069	HVAC			6
7	30A/3P	VAV1-2	HVAC	2030	2859			829	HVAC	VAV2-5	20A/3P	8
9			HVAC	2030		2859		829	HVAC			10
11			HVAC	2030			2859	829	HVAC			12
13	20A/3P	VAV1-3	HVAC	937	2835			1898	HVAC	VAV3-1	20A/3P	14
15			HVAC	937		2835		1898	HVAC			16
17			HVAC	937			2835	1898	HVAC			18
19	20A/3P	VAV1-4	HVAC	1033	2306			1273	HVAC	VAV3-2	20A/3P	20
21			HVAC	1033		2306		1273	HVAC			22
23			HVAC	1033			2306	1273	HVAC			24
25	20A/3P	VAV2-1	HVAC	1273	2474			1201	HVAC	VAV3-3	20A/3P	26
27			HVAC	1273		2474		1201	HVAC			28
29			HVAC	1273			2474	1201	HVAC			30
31	20A/3P	VAV2-2	HVAC	1466	4462			2996	PWR	EWH-1	40A/2P	32
33			HVAC	1466		4462		2996	PWR			34
35			HVAC	1466			1946	480	HVAC	EF-1	15A/1P	36
37	20A/3P	VAV2-3	HVAC	1069	1165			96	PWR	HWRP-1	15A/1P	38
39			HVAC	1069		1069				SPARE	20A/1P	40
41			HVAC	1069			1069			SPARE	20A/1P	42

PANELBOARD SCHEDULE

PANELBOARD **PP2** NAME

VOLTS: **208 Y/120** 3Ø 4-WIRE
BUS CAPACITY: **100** A AIC: **42kA**
MCB: MTG: **SURFACE**
MLO: **100** A ENCL: **NEMA 1**

LOCATION: **MECH/ELEC RM 141**

No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.
1	20A/1P	LIGHTING - ROOM 100, 101, 102	LTG	570	1290			720	REC	RECEPTACALES - ROOM 142	20A/1P	2
3	20A/1P	LIGHTING - ROOM 105, 115	LTG	160		880		720	REC	RECEPTACALES - ROOM 140	20A/1P	4
5	20A/1P	LIGHTING - ROOM 144, 145, 146	LTG	442			1162	720	REC	RECEPTACALES - ROOM 140	20A/1P	6
7	20A/1P	LIGHTING - ROOM 143	LTG	891	1611			720	REC	RECEPTACALES - ROOM 139	20A/1P	8
9	20A/1P	LIGHTING - ROOM 112,139,140,141,142	LTG	720		1260		540	REC	RECEPTACALES - ROOM 139	20A/1P	10
11	20A/1P	LIGHTING - ROOM 259, 260, 261, 262	LTG	389			1389	1000	REC	REC - ROOM 139 (FRIDGE GCFI BKR)	20A/1P	12
13	20A/1P	LIGHTING - ROOM 237-249, 252-58	LTG	1288	2368			1080	REC	RECEPTACLES - ROOM 222, 229, 235	20A/1P	14
15	20A/1P	RECEPTACALES - ROOM 100, 101	REC	720		1800		1080	REC	RECEPTACLES - ROOM 237	20A/1P	16
17	20A/1P	RECEPTACALES - ROOM 102	REC	720			1800	1080	REC	RECEPTACLES - ROOM 238	20A/1P	18
19	20A/1P	RECEPTACALES - ROOM 105	REC	720	1620			900	REC	RECEPTACLES - ROOM 239	20A/1P	20
21	20A/1P	RECEPTACALES - ROOM 115	REC	540		1440		900	REC	RECEPTACLES - ROOM 240	20A/1P	22
23	20A/1P	RECEPTACALES - ROOM 144	REC	720			1440	720	REC	RECEPTACLES - ROOM 241,242	20A/1P	24
25	20A/1P	RECEPTACALES - ROOM 145	REC	540	1440			900	REC	RECEPTACLES - ROOM 243	20A/1P	26
27	20A/1P	RECEPTACALES - ROOM 146	REC	540		1440		900	REC	RECEPTACLES - ROOM 244	20A/1P	28
29	20A/1P	RECEPTACALES - ROOM 143	REC	900			1800	900	REC	RECEPTACLES - ROOM 247	20A/1P	30
31	20A/1P	RECEPTACALES - ROOM 143	REC	900	1400			500	PWR	UR-1, UR-1, WC-1, WC-1, WC-1, WC-1	20A/1P	32
33	20A/1P	RECEPTACALES - ROOM 143	REC	720		1220		500	PWR	WC-1, WC-1	20A/1P	34
35	20A/1P	RECEPTACALES - ROOM 143	REC	720			1220	500	PWR	WC-1, WC-1	20A/1P	36
37	20A/1P	RECEPTACALES - ROOM 112	REC	900	900					SPARE	20A/1P	38
39	20A/1P	RECEPTACALES - ROOM 110,111,138	REC	900		900				SPARE	20A/1P	40
41	20A/1P	RECEPTACALES - ROOM 142	REC	540			540			SPARE	20A/1P	42

PANELBOARD SCHEDULE

PANELBOARD **PP3** NAME

VOLTS: **208 Y/120** 3Ø 4-WIRE
BUS CAPACITY: **100** A AIC: **42kA**
MCB: MTG: **SURFACE**
MLO: **100** A ENCL: **NEMA 1**

LOCATION: **ELEC ROOM 141**

No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.
1	20A/1P	RECEPTACLES - ROOM 251	REC	900	900					SPARE	20A/1P	2
3	20A/1P	RECEPTACLES - ROOM 252	REC	900		900				SPARE	20A/1P	4
5	20A/1P	RECEPTACLES - ROOM 255	REC	900			900			SPARE	20A/1P	6
7	20A/1P	RECEPTACLES - ROOM 256	REC	900	900					SPARE	20A/1P	8
9	20A/1P	RECEPTACLES - ROOM 257	REC	900		900				SPARE	20A/1P	10
11	20A/1P	RECEPTACLES - ROOM 258	REC	900			900			SPARE	20A/1P	12
13	20A/1P	RECEPTACLES - ROOM 254	REC	900	900					SPARE	20A/1P	14
15	20A/1P	RECEPTACLES - ROOM 253	REC	900		900				SPARE	20A/1P	16
17	20A/1P	RECEPTACLES - ROOM 248	REC	900			900			SPARE	20A/1P	18
19	20A/1P	RECEPTACLES - ROOM 249	REC	540	540					SPARE	20A/1P	20
21	20A/1P	RECEPTACLES - ROOM 245	REC	900		900				SPARE	20A/1P	22
23	20A/1P	RECEPTACLES - ROOM 246	REC	720			720			SPARE	20A/1P	24
25	20A/1P	RECEPTACLES - ROOM 259, 260, 261	REC	720	720					SPARE	20A/1P	26
27	20A/1P	RECEPTACLES - ROOM 261, 262	REC	720		720				SPARE	20A/1P	28
29	20A/1P	RECEPTACLES - ROOF	REC	540			540			SPARE	20A/1P	30
31	20A/1P	RECEPTACLES - ROOM 142 (A/V RACK)	REC	500	500					SPARE	20A/1P	32
33	20A/1P	RECEPTACLES - ROOM 249 (NETW. RACK)	REC	500		500				SPARE	20A/1P	34
35	20A/1P	SPARE					0			SPARE	20A/1P	36
37	20A/1P	SPARE			0					SPARE	20A/1P	38
39	20A/1P	SPARE				0				SPARE	20A/1P	40
41	20A/1P	SPARE					0			SPARE	20A/1P	42

ALPHA BLDG SET 09-01-2026

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

No. PE046069
JESSE F. WENDELL
08/20/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: MAP
DRAWN: MAP
CHECKED: JFW
CHECKED:
APPROVED:

FILENAME

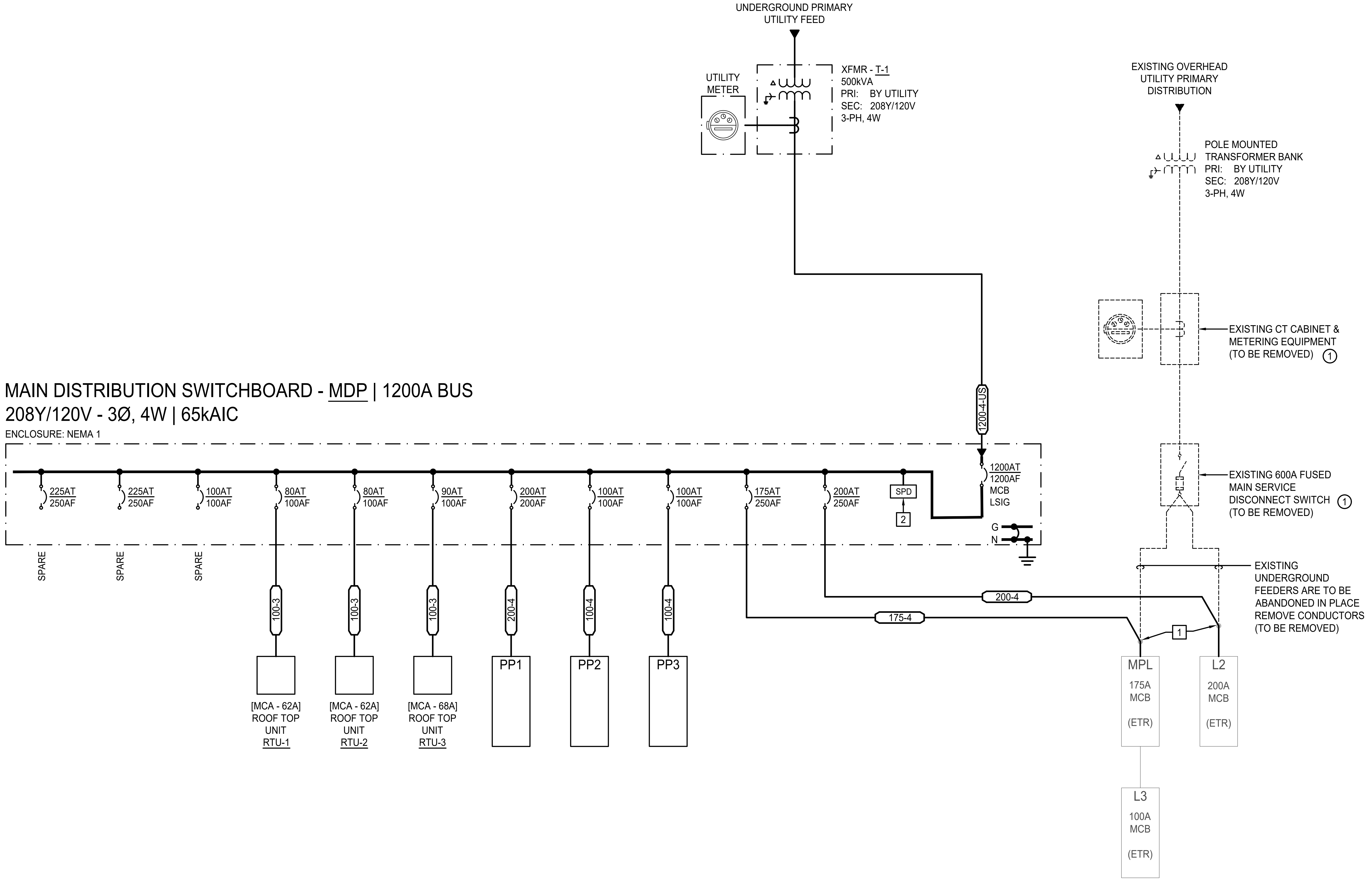
BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

ELECTRICAL

PANELBOARD SCHEDULES

DRAWING NUMBER
E504


UNDERGROUND PRIMARY UTILITY FEED
UTILITY METER
XFMR - T-1
500kVA
PRI: BY UTILITY
SEC: 208Y/120V
3-PH, 4W
EXISTING OVERHEAD UTILITY PRIMARY DISTRIBUTION
POLE MOUNTED TRANSFORMER BANK
PRI: BY UTILITY
SEC: 208Y/120V
3-PH, 4W
EXISTING CT CABINET & METERING EQUIPMENT (TO BE REMOVED) ①
1200-4-US
MAIN DISTRIBUTION SWITCHBOARD - MDP | 1200A BUS
208Y/120V - 3Ø, 4W | 65kAIC
ENCLOSURE: NEMA 1
225AT 250AF
225AT 250AF
100AT 100AF
80AT 100AF
80AT 100AF
90AT 100AF
200AT 200AF
100AT 100AF
100AT 100AF
175AT 250AF
200AT 250AF
SPD
2
1200AT 1200AF MCB LSIG
G
N
SPARE
SPARE
SPARE
100-3
100-3
100-3
200-4
100-4
100-4
[MCA - 62A] ROOF TOP UNIT RTU-1
[MCA - 62A] ROOF TOP UNIT RTU-2
[MCA - 68A] ROOF TOP UNIT RTU-3
PP1
PP2
PP3
200-4
175-4
EXISTING 600A FUSED MAIN SERVICE DISCONNECT SWITCH (TO BE REMOVED) ①
EXISTING UNDERGROUND FEEDERS ARE TO BE ABANDONED IN PLACE REMOVE CONDUCTORS (TO BE REMOVED)
1
MPL 175A MCB (ETR)
L2 200A MCB (ETR)
L3 100A MCB (ETR)

① SINGLE LINE DIAGRAM
SCALE: NONE

FEEDER SIZE SCHEDULE | 3-PHASE
600V & BELOW (COPPER)

OVER-CURRENT DEVICE RATING	CONDUCTOR SIZE AWG OR KCMIL		4-WIRE FEEDERS WITH EQUIPMENT GROUND		3-WIRE FEEDERS WITH EQUIPMENT GROUND (NO NEUTRAL)		4-WIRE SEPARATELY DERIVED SYSTEM FEEDERS GROUNDING ELECTRODE CONDUCTOR (GEC)			4-WIRE FEEDERS W/O EQUIPMENT GROUND (UTILITY SECONDARY)	
	PHASE & NEUTRAL	EQUIP. GND.	xxxx-4	CONDUIT SIZE	xxxx-3	CONDUIT SIZE	xxxx-4-SD	GEC	CONDUIT SIZE	xxxx-4-US	CONDUIT SIZE
20	12	12	20-4	3/4"	20-3	3/4"	20-4-SD	8	3/4"	20-4-US	3/4"
30	10	10	30-4	3/4"	30-3	3/4"	30-4-SD	8	3/4"	30-4-US	3/4"
40	8	10	40-4	3/4"	40-3	3/4"	40-4-SD	8	3/4"	40-4-US	3/4"
60	6	10	60-4	1"	60-3	1"	60-4-SD	8	1"	60-4-US	1"
70	4	10	70-4	1-1/4"	70-3	1-1/4"	70-4-SD	8	1-1/4"	70-4-US	1-1/4"
100	2	8	100-4	1-1/4"	100-3	1-1/4"	100-4-SD	8	1-1/4"	100-4-US	1-1/4"
110	1	6	110-4	1-1/2"	110-3	1-1/2"	110-4-SD	6	1-1/2"	110-4-US	1-1/2"
125	1/0	6	125-4	2"	125-3	2"	125-4-SD	6	2"	125-4-US	2"
150	1/0	6	150-4	2"	150-3	2"	150-4-SD	6	2"	150-4-US	2"
175	2/0	6	175-4	2"	175-3	2"	175-4-SD	4	2"	175-4-US	2"
200	3/0	6	200-4	2"	200-3	2"	200-4-SD	4	2"	200-4-US	2"
225	4/0	4	225-4	2-1/2"	225-3	2-1/2"	225-4-SD	2	2-1/2"	225-4-US	2-1/2"
250	250	4	250-4	2-1/2"	250-3	2-1/2"	250-4-SD	2	2-1/2"	250-4-US	2-1/2"
300	350	4	300-4	3"	300-3	3"	300-4-SD	2	3"	300-4-US	3"
350	500	2	350-4	3"	350-3	3"	350-4-SD	2	3"	350-4-US	3"
400	600	2	400-4	3-1/2"	400-3	3"	400-4-SD	1/0	3"	400-4-US	3"
450	(2) 4/0	2	450-4	(2) 2-1/2"	450-3	(2) 2-1/2"	450-4-SD	1/0	(2) 2-1/2"	450-4-US	(2) 2"
500	(2) 250	2	500-4	(2) 2-1/2"	500-3	(2) 2-1/2"	500-4-SD	1/0	(2) 2-1/2"	500-4-US	(2) 2-1/2"
600	(2) 350	1	600-4	(2) 4"	600-3	(2) 4"	600-4-SD	3/0	(2) 4"	600-4-US	(2) 3"
700	(2) 500	1/0	700-4	(2) 4"	700-3	(2) 4"	700-4-SD	3/0	(2) 4"	700-4-US	(2) 3"
800	(2) 600	1/0	800-4	(2) 4"	800-3	(2) 4"	800-4-SD	3/0	(2) 4"	800-4-US	(2) 3"
1000	(3) 500	2/0	1000-4	(3) 4"	1000-3	(3) 4"	1000-4-SD	3/0	(3) 4"	1000-4-US	(3) 3"
1200	(3) 600	3/0	1200-4	(3) 4"	1200-3	(3) 4"	1200-4-SD	3/0	(3) 4"	1200-4-US	(3) 3-1/2"
1600	(4) 600	4/0	1600-4	(4) 4"	1600-3	(4) 4"	1600-4-SD	3/0	(4) 4"	1600-4-US	(4) 3-1/2"
2000	(5) 600	250	2000-4	(5) 4"	2000-3	(5) 4"	2000-4-SD	3/0	(5) 4"	2000-4-US	(5) 3-1/2"
2500	(6) 600	350	2500-4	(6) 4"	2500-3	(6) 4"	2500-4-SD	3/0	(6) 4"	2500-4-US	(6) 3-1/2"
3000	(8) 500	500	3000-4	(8) 4"	3000-3	(8) 4"	3000-4-SD	3/0	(8) 4"	3000-4-US	(8) 3-1/2"
4000	(10) 600	500	4000-4	(10) 4"	4000-3	(10) 4"	4000-4-SD	3/0	(10) 4"	4000-4-US	(10) 3-1/2"
5000	(12) 600	(2) 500	5000-4	(12) 4"	5000-3	(12) 4"	5000-4-SD	3/0	(12) 4"	5000-4-US	(12) 3-1/2"
6000	(16) 500	(2) 500	6000-4	(16) 4"	6000-3	(16) 4"	6000-4-SD	3/0	(16) 4"	6000-4-US	(16) 3"

FEEDER SCHEDULE GENERAL NOTES

A. ROUTES, LENGTHS & ABNORMAL ENVIRONMENTAL CONDITIONS SHALL BE VERIFIED TO BE COMPATIBLE WITH THE CABLE TYPE & SIZE. CONSULT ENGINEER WHEN RELATED ISSUES ARISE.

B. NOTE ALL FEEDERS ARE NECESSARILY USED. REFER TO SINGLE LINE DIAGRAM, SCHEDULES, & PLANS FOR REQUIRED FEEDERS.

C. FOR ALL FEEDERS WITH MULTIPLE CONDUITS PROVIDE THE INDICATED NUMBER OF PHASE, NEUTRAL, & GROUND CONDUCTORS IN EACH CONDUIT.

D. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS ARE COPPER, TYPE THWN/THHN INSULATION FOR DRY, INDOOR AREAS & XHHW INSULATION FOR OUTDOOR INSTALLATIONS.

E. UNLESS OTHERWISE INDICATED, FEEDER SIZING SHALL MATCH THE SIZE INDICATED ABOVE FOR THE APPROPRIATE OVERCURRENT PROTECTIVE DEVICE PROVIDED TO PROTECT THE FEEDER OR LARGER WHERE INDICATED. NOTE THAT THE CONDUCTOR SIZE MAY BE LARGER THAN THE OCPD SIZE FOR THE ASSOCIATED CIRCUIT.

F. FOR BREAKER SIZE OF 100A & SMALLER 60°C AMPACITY WAS UTILIZED TO SIZE FEEDERS, 75°C AMPACITY WAS USED FOR FEEDERS PROTECTED BY A BREAKER LARGER THEN 100A.

GENERAL NOTES:

A. THE CONTRACTOR SHALL MAINTAIN EXISTING ELECTRICAL SERVICE IN OPERATION TO THE GREATEST EXTENT POSSIBLE THROUGHOUT THE DURATION OF THE PROJECT. ALL WORK AFFECTING THE EXISTING SERVICE SHALL BE COORDINATED IN ADVANCE TO MINIMIZE DISRUPTIONS TO BUILDING OPERATIONS. CONTRACTOR SHALL DEVELOP A SWITCHOVER SCHEDULE AS SOON AS POSSIBLE SO THE OWNER CAN COORDINATE ALL REQUIREMENTS TO ACCOMMODATE ANY REQUIRED SHUTDOWNS. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING & COORDINATING ALL SHUTDOWNS, ENSURING PROPER NOTICE IS PROVIDED TO ALL STAKEHOLDERS INCLUDING THE UTILITY COMPANY.

ⓧ DEMOLITION NOTES:

1. DISCONNECT & REMOVE EXISTING ELECTRICAL EQUIPMENT, WIRING, & ALL ITS ASSOCIATED ELECTRICAL WORK.

☒ CONSTRUCTION NOTES:

1. INTERCEPT EXISTING CONDUIT EMERGING FROM THE CONCRETE FLOOR TO FACILITATE CONNECTION TO NEW FEEDER.
2. SURGE PROTECTION DEVICE SHALL INCLUDE INTEGRAL DISCONNECT & OVERCURRENT PROTECTION.

ALPHA BLDG SET 09-01-2026

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

THIS DRAWING IS NOT VALID FOR CONSTRUCTION PURPOSES UNLESS IT BEARS THE SEAL AND SIGNATURE OF A DULY REGISTERED PROFESSIONAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE046069
JESSE F. WENDELL
08/20/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: RB1
DRAWN: RB1
CHECKED: JFW
CHECKED:
APPROVED:

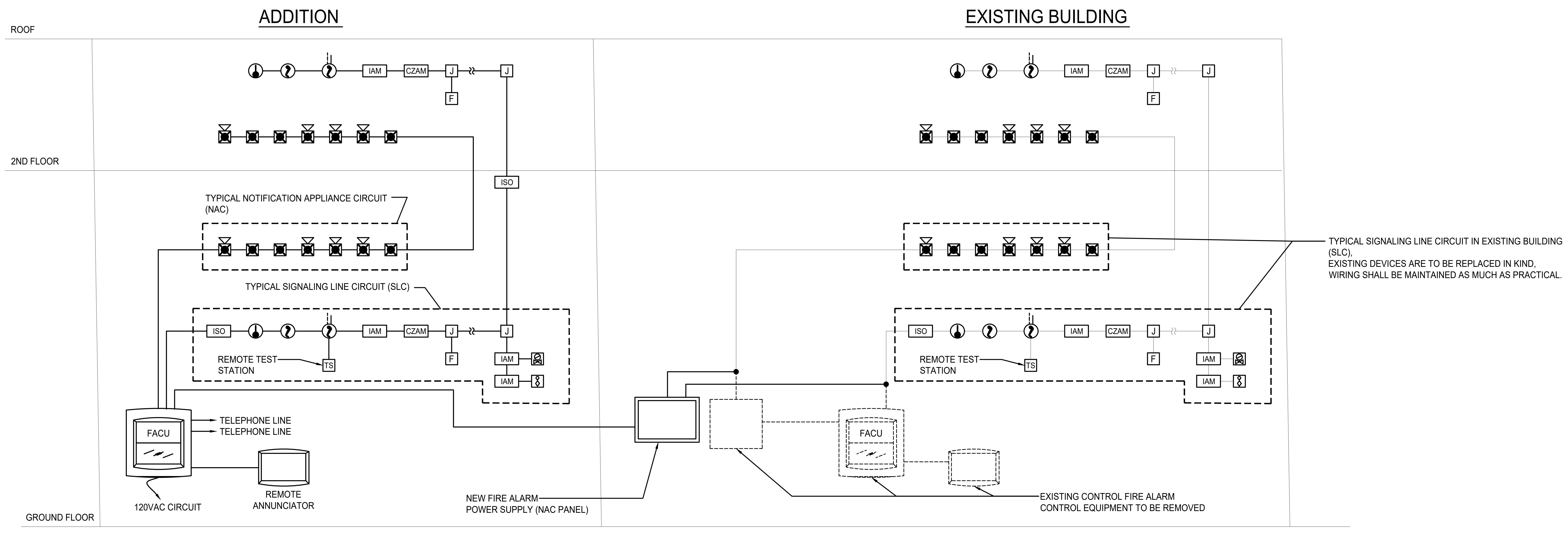
FILENAME

BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

ELECTRICAL

SINGLE LINE DIAGRAM

DRAWING NUMBER
E601


ADDITION
EXISTING BUILDING
ROOF
2ND FLOOR
GROUND FLOOR
IAM
CZAM
J
F
ISO
TS
TYPICAL NOTIFICATION APPLIANCE CIRCUIT (NAC)
TYPICAL SIGNALING LINE CIRCUIT (SLC)
REMOTE TEST STATION
FACU
TELEPHONE LINE
TELEPHONE LINE
120VAC CIRCUIT
REMOTE ANNUNCIATOR
NEW FIRE ALARM POWER SUPPLY (NAC PANEL)
EXISTING CONTROL FIRE ALARM CONTROL EQUIPMENT TO BE REMOVED
TYPICAL SIGNALING LINE CIRCUIT IN EXISTING BUILDING (SLC),
EXISTING DEVICES ARE TO BE REPLACED IN KIND,
WIRING SHALL BE MAINTAINED AS MUCH AS PRACTICAL.

1 FIRE ALARM RISER DIAGRAM
SCALE: NONE

SCOPE:

A. PLEASE PROVIDE A COMPLETE, CODE COMPLIANT FIRE ALARM SYSTEM FOR THE NEW BUILDING ADDITION & INTEGRATE IT WITH THE EXISTING FACILITY'S FIRE ALARM INFRASTRUCTURE. THE EXISTING FIRE ALARM WIRING IN THE FACILITY SHALL REMAIN IN PLACE & BE REUSED WHERE PRACTICAL. ALL EXISTING FIRE ALARM SYSTEM INITIATING & NOTIFICATION DEVICES—INCLUDING DETECTORS, PULL STATIONS, HORN/STROBES, & ALL OTHER FIELD COMPONENTS—SHALL BE REMOVED & REPLACED WITH NEW DEVICES THAT ARE FULLY COMPATIBLE WITH THE NEW FIRE ALARM SYSTEM BEING PROVIDED. THE FIRE ALARM SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH IBC, NFPA 70, & NFPA 72.

B. THESE DOCUMENTS ARE INTENDED TO OUTLINE THE DESIGN, MATERIALS, & EQUIPMENT REQUIRED FOR A COMPLETELY FUNCTIONING & OPERATING FIRE ALARM SYSTEM, INCLUDING INTERFACING TO OTHER BUILDING SYSTEMS AS REQUIRED.

C. THE OVERALL SCOPE & CHARACTER OF THE WORK ARE ILLUSTRATED IN THE PROJECT SPECIFICATIONS & DRAWINGS. ALTHOUGH DIVIDED INTO MULTIPLE SECTIONS FOR ORGANIZATIONAL CONVENIENCE, ALL CONTRACT DOCUMENTS MUST BE REVIEWED AS A SINGLE COORDINATED PACKAGE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TRADES, SUBCONTRACTORS, & VENDORS INVOLVED IN THE PROJECT.

D. THE DRAWINGS INDICATE THE GENERAL LOCATIONS OF FIRE ALARM SYSTEM EQUIPMENT & FIELD DEVICES. THE CONTRACTOR SHALL DETERMINE FINAL DEVICE PLACEMENT, QUANTITIES, & APPLIANCE RATINGS IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, & CONTRACT REQUIREMENTS.

E. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS & APPROVALS FROM THE AUTHORITY HAVING JURISDICTION (AHJ) & MUST PAY ALL ASSOCIATED FEES FOR FIRE ALARM SYSTEM WORK.

F. THE INSTALLING CONTRACTOR SHALL COORDINATE WITH MECHANICAL, ELECTRICAL, & OTHER TRADES TO ENSURE THAT INSTALLATIONS ARE CONSISTENT WITH FACILITY DESIGN, FUNCTION, & INTENT.

G. FINAL SYSTEM TESTING SHALL BE COORDINATED WITH OTHER CONTRACTORS TO ENSURE THAT THE ENTIRE SYSTEM IS OPERATIONAL AT THE TIME OF TESTING.

H. THE CONTRACTOR SHALL PROVIDE FINAL SYSTEM LAYOUT DRAWINGS, INCLUDING BATTERY & VOLTAGE DROP CALCULATIONS, & SECURE APPROVAL FROM THE FIRE MARSHAL & ALL RELEVANT AUTHORITIES HAVING JURISDICTION.

I. THE FIRE ALARM CONTRACTOR SHALL SCHEDULE & PERFORM ALL INSPECTIONS & TESTS REQUIRED BY THE AHJ & PROJECT SPECIFICATIONS.

INITIATION DEVICES:

J. INSTALL MANUAL FIRE PULL STATIONS AS SHOWN ON THE DRAWINGS. PULL STATION SHALL BE DUAL-ACTION, KEY-RESETTABLE, & MUST NOT USE BREAKABLE ELEMENTS. FINAL INSTALLATION DETAILS SHALL BE PROVIDED BY THE FIRE ALARM CONTRACTOR.

K. PROVIDE SMOKE DETECTION ABOVE EACH FIRE ALARM CONTROL PANEL & NOTIFICATION APPLIANCE CIRCUIT PANEL AS REQUIRED BY NFPA 72, SECTION 10.4.5.

L. ALL ADDRESSABLE MONITOR MODULES SHALL BE INSTALLED WITHIN 10 FEET OF THE DEVICES THEY MONITOR, UNLESS OTHERWISE INDICATED.

M. PROVIDE REMOTE TEST STATION/INDICATORS FOR ANY DEVICES THAT ARE NOT READILY ACCESSIBLE.

N. ALL ADDRESSABLE CONTROL MODULES MUST BE INSTALLED WITHIN 3 FEET OF THE DEVICES THEY CONTROL, UNLESS OTHERWISE INDICATED.

WIRING & PATHWAYS:

O. INSTALL FIRE ALARM HORN & STROBES THROUGHOUT THE FACILITY. PROVIDE ADDITIONAL NOTIFICATION APPLIANCE CIRCUIT (NAC) PANELS AS NEEDED TO SUPPORT DEVICE LOADS. NAC LOADING SHALL NOT EXCEED 75% OF THE RATED OUTPUT.

P. VISUAL NOTIFICATION DEVICES MUST BE INSTALLED IN ALL NORMALLY OCCUPIED, PUBLIC, & COMMON-USE AREAS, REFER TO DRAWINGS FOR MINIMUM NOTIFICATION SYSTEM DESIGN INTENT. ALL VISIBLE NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED.

Q. PROVIDE CLEAR STROBES LABELED "FIRE" FOR THE FIRE ALARM SYSTEM.

R. PROVIDE SUFFICIENT AUDIBLE NOTIFICATION APPLIANCES TO MEET THE AUDIBILITY & INTELLIGIBILITY REQUIREMENTS OF NFPA 72.

S. WALL-MOUNTED HORNS SHALL BE INSTALLED A MINIMUM OF 90" ABOVE THE FINISHED FLOOR, MEASURED TO THE TOP OF THE DEVICE, AS REQUIRED BY NFPA 72. COORDINATE ALL BACK BOX INSTALLATIONS WITH THE ELECTRICAL CONTRACTOR.

T. PROVIDE COMBINATION AUDIBLE/VISUAL APPLIANCES IN SPACES WITH HIGH AMBIENT NOISE LEVELS.

U. PROVIDE WEATHERPROOF DEVICES WHERE THEY MIGHT BE SUBJECT EXPOSURE TO THE WEATHER ELEMENTS.

NOTIFICATION DEVICES:

V. SLC, NAC, & IDC WIRING MUST BE INSTALLED AS CLASS B CIRCUITS.

W. WIRE TYPE BY CIRCUIT SHALL BE AS FOLLOWS:

FIRE ALARM WIRING & PATHWAY CRITERIA (NFPA 72)		
CIRCUIT TYPE	MINIMUM SIZE	PATHWAY TYPE
SLC	#16 AWG	B
NAC	#14 AWG	B
IDF	#14 AWG	B

X. CONDUCTOR TYPES SHALL BE SELECTED ACCORDING TO CIRCUIT REQUIREMENTS, SOLID OR STRANDED, CUPPER AS PERMITTED BY NFPA 70.

Y. PATHWAY SURVIVABILITY SHALL BE LEVEL 0, AS DEFINED BY NFPA 72.

Z. FIRE ALARM WIRING SHALL NOT BE INSTALLED IN CONDUITS OR JUNCTION BOXES WITH OTHER NON FIRE ALARM WIRING.

AA. PROVIDE WIRING TO CONTROL PANELS EITHER VERTICALLY OR HORIZONTALLY, MAKING ALL CHANGES IN DIRECTION AT 90-DEGREE ANGLES. CONDUCTORS SHALL BE NEATLY BUNDLED, WRAPPED, & PERMANENTLY LABELED.

AB. ALL CONDUCTORS MUST BE CONTINUOUS & PROVIDED WITHOUT SPLICES FROM DEVICE TO DEVICE. WIRE NUTS, CRIMPS, OR TWISTED SPLICES ARE NOT ALLOWED.

AC. ALL TERMINATIONS MUST BE MADE ON TERMINAL STRIPS. DEVICES SHALL BE EQUIPPED WITH SCREW TERMINALS.

AD. UNLESS OTHERWISE NOTED, ALL INTERIOR FIRE ALARM CIRCUITS MUST BE INSTALLED IN EMT RACEWAYS. RACEWAYS SHALL BE PAINTED RED. FOR EXTERIOR FIRE ALARM CIRCUITS PROVIDE WIRING IN IMC OR RMC RACEWAYS, ALSO PAINTED RED. ALL CONNECTIONS MUST BE LIQUID-TIGHT & RATED FOR WET LOCATIONS. SUPPORTS & HARDWARE MUST BE CORROSION-RESISTANT & APPROVED FOR OUTDOOR USE.

AE. CONDUIT SIZING & FILL SHALL BE DETERMINED BY THE INSTALLING CONTRACTOR IN ACCORDANCE WITH THE NEC. CONDUIT FILL CALCULATIONS MUST BE PROVIDED TO DEMONSTRATE THAT 40% FILL IS NOT EXCEEDED. ALL WIRING MUST BE INSTALLED IN CONDUITS WITH A MINIMUM SIZE OF 3/4 INCH.

FIRE ALARM SYSTEM PANELS:

AF. PROVIDE THE FIRE ALARM CONTROL UNIT IN THE CNG CONTROL BUILDING. PROVIDE SIGNAGE ON THE DOOR THAT READS "FIRE ALARM CONTROL PANEL - FACP", OR AS REQUIRED BY LOCAL FIRE MARSHAL.

AG. PROVIDE DIGITAL ALARM COMMUNICATION TRANSMITTER (DACT) WITH ABILITIES OF TRANSMITTING ALARM , SUPERVISORY, & TROUBLE SIGNAL TO THE MONITORING STATION.

AH. PROVIDE NAC PANELS AS REQUIRED TO SUPPORT NOTIFICATION APPLIANCE POWER REQUIREMENTS.

AI. UPDATE SYSTEM RECORD DOCUMENTS & OTHER NFPA 72 MANDATED RECORD DOCUMENTS IN EXISTING STORAGE CABINET ADJACENT TO THE FACU. PROVIDE A DOCUMENT CABINET ADJACENT TO THE FACP.

OTHER SYSTEM REQUIREMENTS:

AJ. ALL POWER CIRCUITS SUPPLYING FIRE ALARM EQUIPMENT MUST BE DEDICATED TO THE FIRE ALARM SYSTEM. MULTIPLE FIRE ALARM PANELS MAY SHARE A SINGLE DEDICATED CIRCUIT IF CAPACITY LIMITS ARE NOT EXCEEDED. CIRCUITS SHALL BE FED FROM DEDICATED 20AMP BREAKERS EQUIPPED WITH BREAKER LOCKS. BREAKER SHALL LABELED AS "FIRE ALARM".

AK. BATTERY CALCULATIONS SHALL INCLUDE A 20% FUTURE GROWTH FACTOR IN ACCORDANCE WITH NFPA 72.

AL. BATTERY CALCULATIONS SHALL CONSIDER DEVICES IN THE EXISTING BUILDING OUTSIDE OF THE CURRENT PROJECT SCOPE.

AM. SEALED RECHARGEABLE BATTERIES FOR SECONDARY POWER MUST PROVIDE 24 HOURS OF STANDBY CAPACITY PLUS 5 MINUTES OF ALARM OPERATION.

AN. PROVIDE SURGE PROTECTIVE DEVICES (SPDS) ON THE INPUT POWER CONNECTIONS FOR ALL PANELS, INCLUDING SUB-PANELS & POWER SUPPLY PANELS (NAC, VOICE AMPLIFIERS, ETC).

AO. DEVICE TERMINAL NUMBERS & CONFIGURATION DIFFER FROM MFGR. TO MFGR. TERMINAL DEVICE NUMBERS & DEVICE CONFIGURATIONS INDICATED ARE FOR GENERAL CONCEPT ONLY, & SHALL BE VERIFIED WITH THE ACTUAL MFGR. SELECTED FOR THE PROJECT.

AP. PROVIDE ISOLATOR MODULES ON ALL SLC CIRCUITS AT EVERY 25TH DEVICE.

ALPHA BLDG SET
09-01-2026

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

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No. PE046069
JESSE F. WENDELL
08/20/2026

CONSTRUCTION DOCUMENTS
07/01/2026

NCWSA OFFICE
ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: RB1
DRAWN: RB1
CHECKED: JFW
CHECKED:
APPROVED:

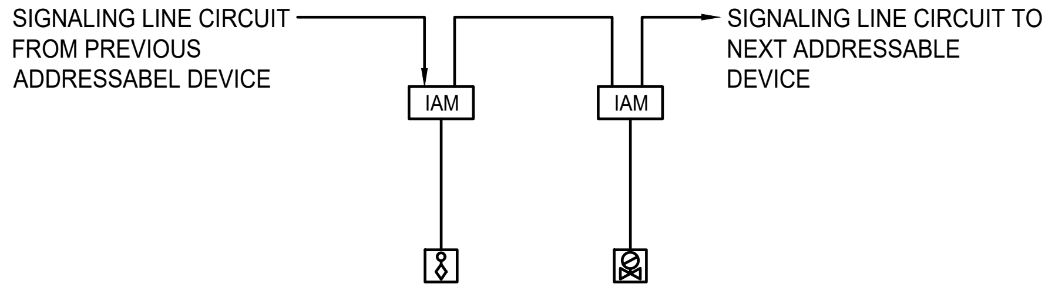
FILENAME

BC PROJECT NUMBER
616202
CLIENT PROJECT NUMBER

ELECTRICAL

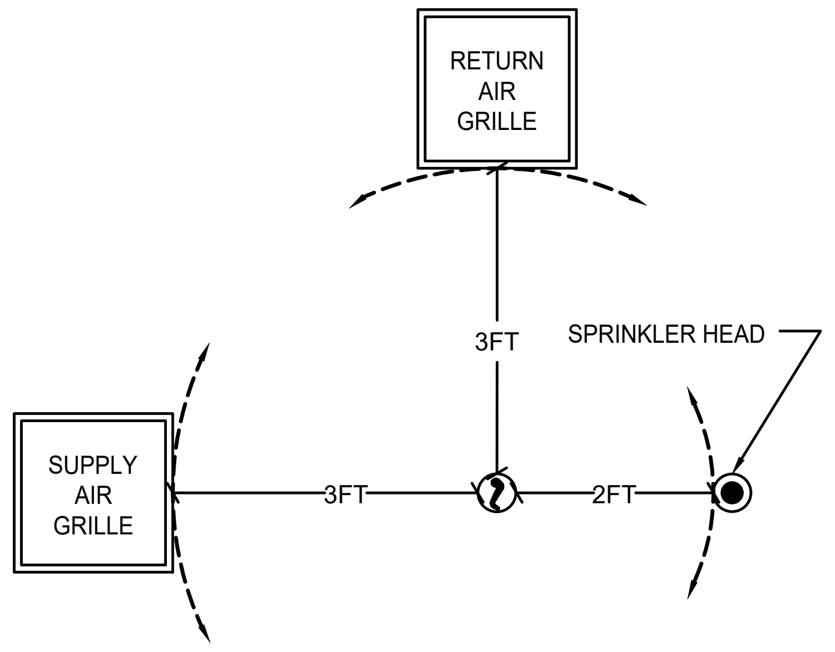
FIRE ALARM
RISER DIAGRAM
& NOTES

DRAWING NUMBER
E701



2 TYPICAL SPRINKLER SYSTEM INTERFACE WIRING SCHEMATIC

SCALE: NONE



3 SMOKE DETECTOR MINIMUM CLEARANCES

SCALE: NONE

FIRE ALARM SYSTEM SEQUENCE OF OPERATION INPUT/OUTPUT MATRIX

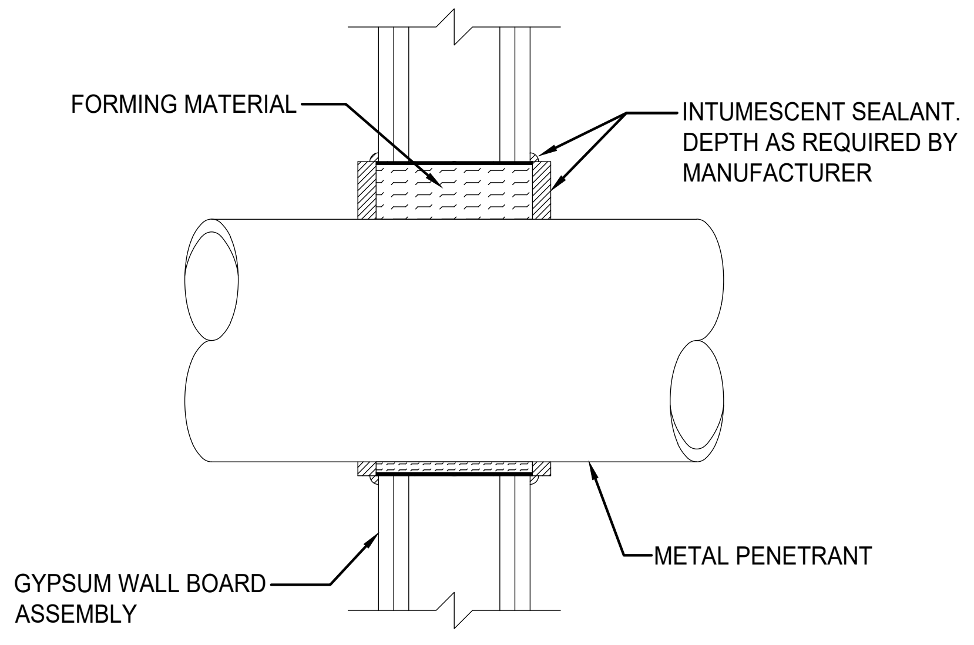
SYSTEM OUTPUTS

			FACU							NOTIFICATION						REQUIRED FIRE SAFETY CONTROL												
			ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE ZONE OR DEVICE ADDRESS ALARM INDICATOR	ACTUATE GENERAL EVACUATION SIGNAL	DISPLAY CHANGE OF STATUS	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	ACTUATE CARBON MONOXIDE NOTIFICATION	RELEASE MAGNETICALLY HELD DOORS	CLOSE ALL SMOKE DAMPERS	UNLOCK EXITS & CONTROL DOORS	SHUT DOWN RESPECTIVE AIR HANDLING EQUIPMENT									
SYSTEM INPUTS			A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	
ALARM CONDITION	MANUAL PULL STATIONS	1	●	●						●	●	●				●		●										1
	AREA SMOKE DETECTORS	2	●	●						●	●	●				●	●	●										2
	AREA HEAT DETECTORS	3	●	●						●	●	●				●	●	●										3
		4																										4
	SPRINKLER WATER FLOW SWITCH	5	●	●						●	●	●				●	●	●										5
		6																										6
		7																										7
		8																										8
SUPERVISORY CONDITION	SPRINKLER TAMPER SWITCH	9			●	●							●															9
	CIRCUIT DEVICE DISABLED	10			●	●							●															10
		11																										11
		12																										12
		13																										13
		14																										14
		15																										15
		16																										16
TROUBLE CONDITION	OPEN CIRCUIT	17					●	●						●														17
	GROUND FAULT	18					●	●						●														18
	NOTIFICATION APPLIANCE CIRCUIT SHORT	19					●	●						●														19
	FIRE ALARM SYSTEM LOW BATTERY	20					●	●						●														20
	FIRE ALARM SYSTEM AC POWER FAILURE	21					●	●						●														21
	CIRCUIT DISCONNECT	22					●	●						●														22
	FIELD WIRING OR SYSTEM COMPONENT FAULT	23					●	●						●														23
		24																										24
		25																										25
		26																										26
		27																										27
			A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	

1 INPUT/OUTPUT MATRIX

SCALE: NONE

ALPHA BLDG SET 09-01-2026

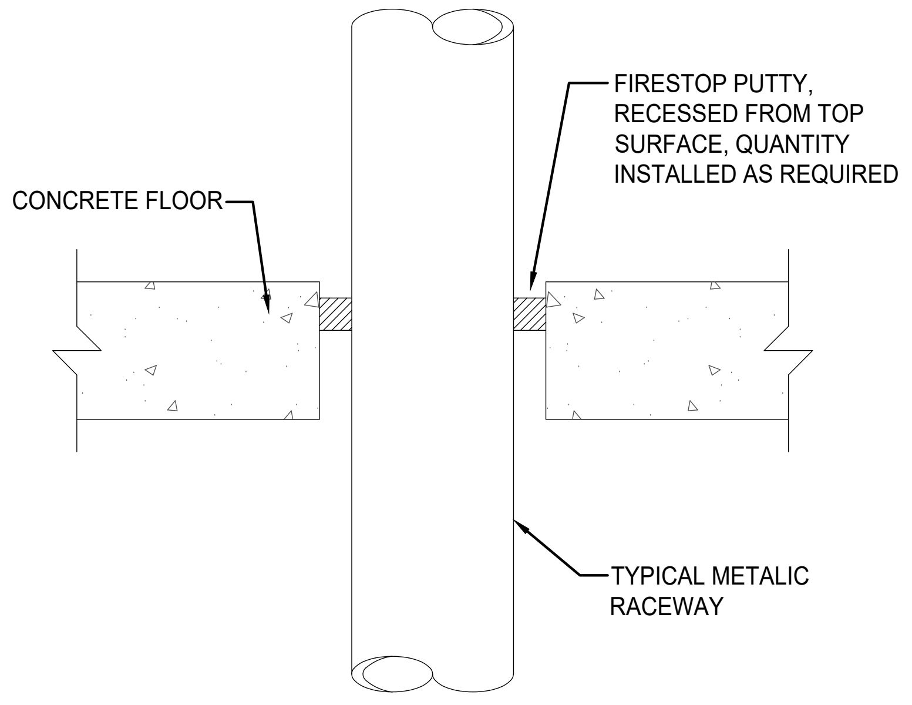


STUD WALL PENETRATION

* REFER TO UL FIRE RESISTANCE DIRECTORY FOR COMPLETE INSTALLATION REQUIREMENTS

8 UL SYSTEM W-L-1079* STUD WALL PENETRATION DETAIL

SCALE: NONE



CONCRETE FLOOR PENETRATION

* REFER TO UL FIRE RESISTANCE DIRECTORY FOR COMPLETE INSTALLATION REQUIREMENTS

9 UL SYSTEM C-AJ-1090* CONCRETE FLOOR PENETRATION DETAIL

SCALE: NONE

THROUGH PENETRATION FIRESTOP SCHEDULE

- THIS SCHEDULE IDENTIFIES REQUIREMENTS FOR ACCEPTABLE THROUGH PENETRATION FIRESTOPS FOR THIS PROJECT BASED ON BARRIER TYPE, BASIS OF BARRIER CONSTRUCTION, AND PENETRANT TYPE.
- THROUGH PENETRATION FIRESTOPS ARE NOT REQUIRED FOR FLOOR PENETRATIONS CONTAINED TOTALLY WITHIN A RATED SHAFT ENCLOSURE.
- NOMENCLATURE OF UL CLASSIFIED FIRESTOP ASSEMBLIES USED IN THE CONTRACT DOCUMENTS IS IDENTICAL TO THAT USED IN CATALOGS OF APPROVED FIRESTOP MANUFACTURERS AND IN UNDERWRITERS LABORATORIES "FIRE RESISTANCE DIRECTORY".

RATED BARRIER		FIRESTOP ASSEMBLY REQUIREMENTS		PENETRANT TYPE		
TYPE	BASIS OF CONSTRUCTION			METALLIC CONDUIT	NONMETALLIC CONDUIT	ELECTRICAL BOXES
WALL	METAL STUDS & GYPSUM WALLBOARD (U400 SERIES)	UL CLASSIFIED SERIES	SINGLE PENETRANT	UL # W-L-1079 DETAIL #8	N/A	CEYY OR CLIV
			MULTIPLE PENETRANTS			N/A
		EXCEPTIONS/ ADDED REQUIREMENTS		NOTE 1	N/A	NOTE 1 & 2
WALL	POURED CONCRETE, CONCRETE BLOCK OR MASONRY (BLOCK & U900 SERIES) (ANY THICKNESS)	UL CLASSIFIED SERIES	SINGLE PENETRANT	UL # C-AJ-1090 DETAIL #10	UL # C-AJ-2038 DETAIL #12	CEYY
			MULTIPLE PENETRANTS			N/A
		EXCEPTIONS/ ADDED REQUIREMENTS		NOTE 1	NOTE 1	NONE
FLOOR	POURED CONCRETE (ANY THICKNESS)	UL CLASSIFIED SERIES	SINGLE PENETRANT	UL # C-AJ-1090 DETAIL #9	UL # C-AJ-2038 DETAIL #11	CEYY
			MULTIPLE PENETRANTS			N/A

NOTES:

1. OPENINGS ACCOMODATING NONCOMBUSTIBLE CONDUITS THROUGH SINGLE MEMBRANES WHICH ARE PART OF A FIRE RESISTANCE RATED WALL ASSEMBLY ARE PERMITTED WHEN:
   A. AGGREGATE AREA OF THE MEMBRANE OPENINGS DO NOT EXCEED 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL AREA.
2. CLASSIFIED TPFS ASSEMBLY IS NOT REQUIRED AT ELECTRICAL BOXES WHEN ALL THE FOLLOWING CONDITIONS ARE MET:
   A. ELECTRICAL BOX IS STEEL AND UL LISTED.
   B. AREA OF INDIVIDUAL BOX DOES NOT EXCEED 16 SQUARE INCHES.
   C. OUTLET BOXES ON OPPOSITE SIDES OF THE WALL ARE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES.

13 THROUGH PENETRATION FIRESTOP SCHEDULE

SCALE: NONE

Brown AND Caldwell

BROWN AND CALDWELL
900 HAMMOND DRIVE, SUITE 500
ATLANTA, GA 30328

wendel

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JESSE F. WENDELL
08/20/2026

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07/01/2026

NCWSA OFFICE ADDITION

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: RB1
DRAWN: RB1
CHECKED: JFW
CHECKED:
APPROVED:

FILENAME

BC PROJECT NUMBER
616202

CLIENT PROJECT NUMBER

ELECTRICAL

FIRE ALARM DETAILS

DRAWING NUMBER
E702