

ALTERATIONS/ RENOVATION TO EFFINGHAM COUNTY ADMINISTRATION BUILDING SPRINGFIELD, GEORGIA



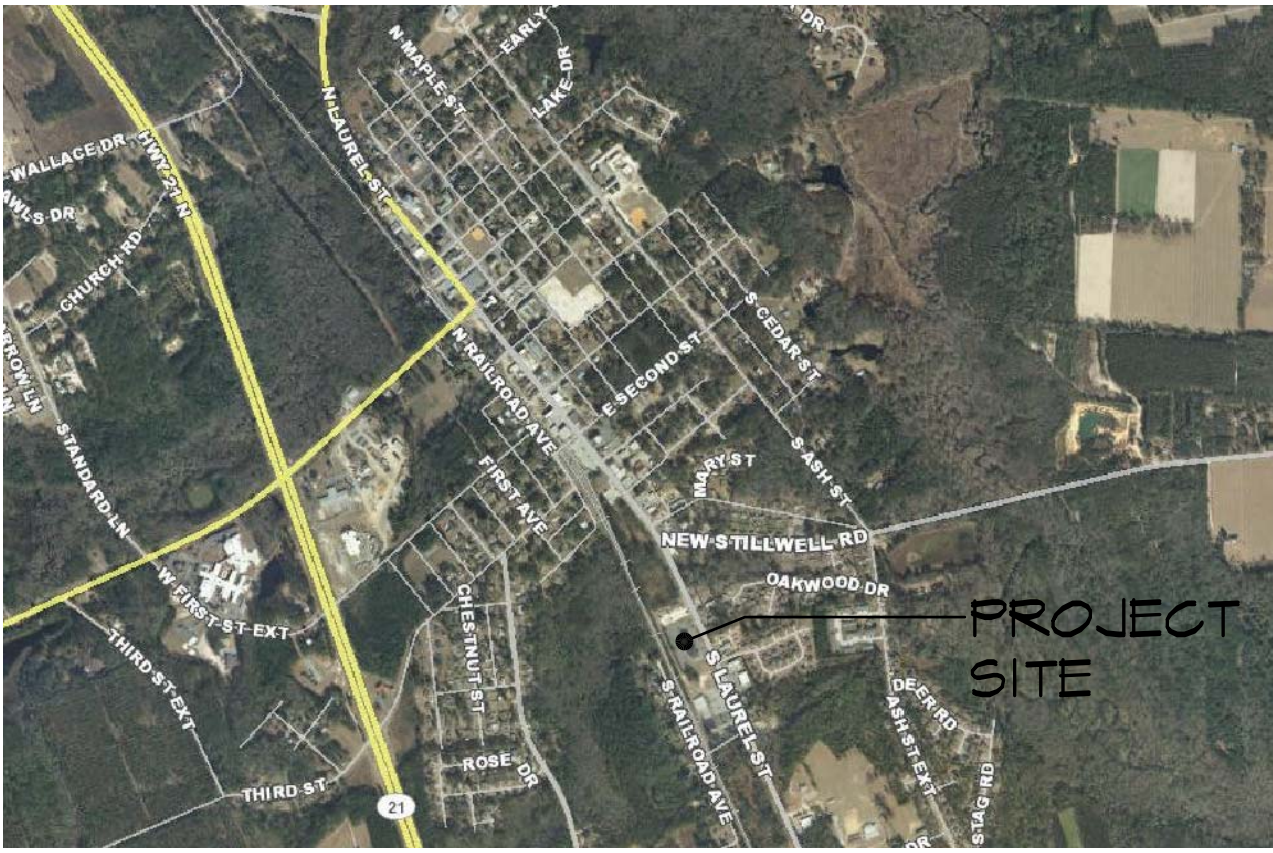
CODE REVIEW DATA

PROPERTY ADDRESS	802 SOUTH LAUREL STREET		
PROPERTY PIN #	S1080025		
ZONING DISTRICT	B-2		
PARKING REQUIREMENTS	EXISTING		
GROSS PROJECT AREA	SOUTH BUILDING (1) = 1,080 SF, SOUTH BUILDING (2) = 4,250 SF, NORTH BUILDING (2) = 2,325 SF		
APPLICABLE CODES	2018 NFPA 101 LIFE SAFETY CODE 2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL GAS CODE	2018 INTERNATIONAL FIRE CODE 2015 INT. ENERGY CONSERVATION CODE 2017 NATIONAL ELECTRICAL CODE 2012 GA ACCESSIBILITY CODE	
OCCUPANCY CLASSIFICATION (NFPA 101)	B (BUSINESS)/ IV ASSEMBLY		
FIRE DISTRICT PROVISIONS	N/A		
TYPE OF CONSTRUCTION (IBC 2018 - CH. 6)	V-B		
	INT. BUILDING CODE (TABLE 503)	ALLOWABLE	PROVIDED
	MAX. ALLOWABLE HEIGHT	40'-0"	38'-0" (EXISTING)
	MAX. NUMBER OF STORIES	4 STORY	2 STORY
	MAX. ALLOWABLE AREA/ FLOOR	14,000 S.F.	EXISTING
OCCUPANCY REQUIREMENTS			
OCCUPANCY LOAD (NFPA 101 - 7.3.1.2)	SQ FOOTAGE	NET PER FLOOR x FLOORS TOTAL	
	150 S.F. PER PERSON	(SOUTH) -SEE SHEETS =167 PER TOTAL (NORTH) 2,325 S.F./ 150 = 16 PERSONS	
CONSTRUCTION REQUIREMENTS (CH. 6 - IBC)			
SPRINKLERED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A		
BUILDING DESIGN WIND LOAD	EXISTING		
FIRE SEPARATION (NFPA 101)	RESISTANCE HOURS	UL #	SEPARATION HOURS
FIRE RATINGS (IBC 2018 - TABLE 601)	N/A	---	N/A
UNIT SEPARATION WALLS	N/A	---	N/A
BEARING WALLS (EXTERIOR)	N/A	---	N/A
BEARING WALLS (INTERIOR)	N/A	---	N/A
CORRIDOR WALLS	N/A	---	N/A
STRUCTURAL BEAMS	N/A	---	N/A
STRUCTURAL COLUMNS	N/A	---	N/A
FLOOR/CEILING ASSEMBLY	N/A	---	N/A
ROOF ASSEMBLY	N/A	---	N/A
MEANS OF EGRESS			
EXITS REQUIRED	PER BUILDING: (SOUTH) EXISTING, 4 PROVIDED - 1ST FLOOR PER FLOOR: (NORTH) EXISTING, 1 PROVIDED - 2ND FLOOR		
PER ROOM (THAN 50 OCCUPANTS)	YES		
HORIZONTAL EXITS	N/A		
EXIT WIDTHS	EXISTING TO REMAIN		
TRAVEL DISTANCE (DOOR TO EXIT, PER NFPA)	MAXIMUM ALLOWED	200'	(100' FOR SINGLE EXIT)
	MAXIMUM PROVIDED	75'	
DEAD END CORRIDOR	MAXIMUM DIST. ALLOWED	50'	
	MAXIMUM DIST. PROVIDED	15'	
UNITS OF EGRESS	REQUIRED: 2" PER PERSON (HORIZ) - 3" PER PERSON (VERT) PROVIDED: -		
FIRE PROTECTION SYSTEM (ALARM PROVIDED)	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> EXISTING		
SMOKE SEPARATION / DRAFTSTOPPING			
ATTIC AREA	REQUIRED: 3,000 S.F.	PROVIDED: N/A	
ATTIC VENTILATION REQUIRED (IBC 2018)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/> PASSIVE <input checked="" type="checkbox"/> MECHANICAL <input type="checkbox"/> N/A		
HIGH IMPACT GLAZING (REQ. PER CH.16 IBC)	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A		
SEISMIC CLASSIFICATION OF SITE	-		
EXPOSURE	-		
INTERIOR FINISHES	EXITS	EXITS ACCESS	OTHER SPACES FLOORING
	AB	AB	ABC -

PROJECT CONSULTANTS

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ARCHITECT: GREENLINE ARCHITECTURE 28 EAST 35TH STREET SAVANNAH, GEORGIA 31401 (T) 412-441-5665 (F) 412-441-8381 contact: BOB POTICNY email: rpoticny@greenlinearch.com	MECHANICAL ENGINEER: CHATHAM ENGINEERING 104 PARK OF COMMERCE SAVANNAH, GEORGIA 31405 (T) 412-238-2400 (F) 412-238-2412 contact: MICHELLE PEAVLER email: mpeavler@chathamengineering.com
ELECTRICAL ENGINEER: CHATHAM ENGINEERING 104 PARK OF COMMERCE SAVANNAH, GEORGIA 31405 (T) 412-238-2400 (F) 412-238-2412 contact: WILLIAM PARNELL email: wparnell@chathamengineering.com	

VICINITY MAP



STREET MAP



SYMBOLS

	BUILDING / WALL SECTION		ENLARGED DETAIL
	ELEVATIONS		ROOM NAME
	INTERIOR ELEVATIONS		ROOM TAG
	WINDOW TAGS		DOOR TAG

GENERAL NOTES

- GREENLINE ARCHITECTURE IS NOT RESPONSIBLE FOR INTERPRETING THE INTENT OF THESE CONSTRUCTION DOCUMENTS, INCLUDING MAKING MODIFICATIONS AS MAY BE NECESSARY DURING THE CONSTRUCTION PHASE. THE ABOVE NAMED COMPANY AND ARCHITECT OF RECORD ARE NOT LIABLE FOR THE WORK WHERE CHANGES TO THESE DOCUMENTS HAVE BEEN MADE.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. ALL WORK REQUIRING MEASURING SHALL BE DONE ACCORDING TO FIGURES ON DRAWINGS AND NOT SCALED FROM DRAWINGS. THE ARCHITECT SHALL FURNISH ANY MISSING DIMENSIONS UPON REQUEST.
- ALL WORK SHALL CONFORM TO PREVAILING CODES, ORDINANCES AND REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION AND SHALL PAY ALL APPLICABLE FEES.

ABBREVIATIONS

ACPS	ACOUSTICAL PANEL CEILING SYSTEM	JST	JOIST JOINT
AB	ABOVE	JT	JOINT
ABV	ABOVE	LAM	LAMINATE
ADJ	ADJUSTABLE	LAV	LAVATORY
AFF	AIR CONDITIONING	LVL	LIVE LOAD
A/C	AIR HANDLING UNIT	LT	LIGHT
AHU	ALUMINUM	LIN	LINEN
ALUM	ALTERNATE	MAX	MAXIMUM
ALT	APPLIANCE	MECH	MECHANICAL
APPL	APPROXIMATE	MED	MEDIUM
APPROX	ARCHITECT	MEMBR	MEMBRANE
ARCH	AS SELECTED BY OWNER	MFR	MANUFACTURER
ASBO	BOARD	MICRO	MINIMUM
BD	BIFOLD	MIN	MISCELLANEOUS
BF	BITUMINOUS	MISC	MASONRY OPENING
BITUM	BUILDING BEARING	MO	MEAN SEA LEVEL
BLDG	BETWEEN	MSL	MOUNTED
BRG	BEVELED	MUL	MULLION
BTWN	CABINET	N/A	NOT APPLICABLE
BVL	CANTILEVER	NIC	NOT IN CONTRACT
CAB	CENTER TO CENTER	NOM	NOMINAL
CANT	CENTER	NTS	NOT TO SCALE
C/C	CONTROL JOINT	OC	ON CENTER
CEN	CEILING	OPNG	OPENING
CL	CEILING	OSB	ORIENTED STRAND BOARD
CLG	CONCRETE MASONRY UNIT	PERF	PERFORATED
CMU	CASED OPENING	PL	PLATE
CO	COLUMN	FLAM	FLARLAM
COLM	CONCRETE	PL LAM	PLASTIC LAMINATE
CONC	CONTINUOUS	PNL	PANEL
CONT	CERAMIC TILE	PNTD	PAINTED
CT	CENTER	PR	PAIR
CTR	CONDENSOR UNIT	PT	PRESSURE TREATED
DBL	DOUBLE	PVMT	PAYMENT
DEMO	DEMOLISH	PLYND	PLYWOOD
DH	DIAMETER	PDR	POWDER ROOM
DIA	DIMENSION	R	RISER
DIM	DISTANCE	R & S	ROD & SHELF
DIST	DOWN	RAG	RETURN AIR GRILL
DN	DOOR	REF	REFRIGERATOR
DR	DISHWASHER	REIN	REINFORCEMENT
DW	DRAWING	REQ'D	REQUIRED
DWR	DRAWER	RM	ROOM
EA	EACH	RS	ROUGH SAWN
ELEV	ELEVATION	RV	RIDGE VENT
ELEC	ELECTRICAL	SCHED	SCHEDULE
EMBED	EQUAL	SECT	SECTION
EQ	EQUIPMENT	SF	SQUARE FEET
EQUIP	EXISTING TO REMAIN	SH	SHELF
EXT	EXTERIOR	SIM	SIMILAR
FD	FLOOR DRAIN	SPEC	SPECIFICATION
FF	FINISH FLOOR	SQ	SQUARE
FFE	FINISH FLOOR ELEV.	STD	STANDARD
FIN	FINISH	STS	STAINLESS STEEL
FXT	FIXTURE	STC	SOUND TRANS. CLASS
FLUOR	FLUORESCENT	STL	STEEL
FL	FLOOR	STOR	STORAGE
FOB	FACE OF BLOCK	STRUC	STRUCTURAL
FOS	FACE OF STUDS	SUSP	SUSPENDED
FT	FEET	SYS	SYSTEM
FTG	FOOTING	TBD	TO BE DETERMINED
GA	GAUGE	TBM	TOP OF BENCH MARK
GALV	GALVANIZED	TBS	TO BE SELECTED
GL	GLASS	TDL	TRUE DIVIDED LITE
GYP	GYPSONUM	TR	TREAD
HB	HOSE BIBB	T & G	TONGUE & GROOVE
HDR	HEADER	TEL	TELEPHONE
HDW	HARDWARE	TEMP	TEMPORARY
HDWD	HARDWOOD	THK	THICKNESS
HORIZ	HORIZONTAL	TJ	TRUSS JOIST, I JOIST
HR	HANDRAIL	TRTD	TREATED
HT	HEIGHT	TV	TELEVISION
IN	INCH	TYP	TYPICAL
INCL	INCLUDE	UC	UNDER COUNTER
INSUL	INSULATION	UNFIN	UNFINISHED
INT	INTERIOR	VB	VAPOR BARRIER
		VERT	VERTICAL
		WD	WASHER/DRYER
		WD	WOOD
		WH	WATER HEATER

SCHEDULE OF DRAWINGS

T1.1	TITLE SHEET
STRUCTURAL	
S1.0	STRUCTURAL NOTES
S1.1	FOUNDATION PLAN MODIFICATIONS
S2.1	SECOND FLOOR MODIFICATIONS
ARCHITECTURAL	
D1.1	DEMOLITION FLOOR PLANS - SOUTH & NORTH BUILDINGS
A1.1	FIRST FLOOR PLAN - SOUTH BUILDING
A1.2	SECOND FLOOR PLAN - SOUTH BUILDING
A1.3	SECOND FLOOR PLAN - NORTH BUILDING
A1.4	FIRST FLOOR REFLECTED CEILING PLAN - SOUTH BUILDING
A1.5	SECOND FLOOR REFLECTED CEILING PLAN - SOUTH BUILDING
A1.6	SECOND FLOOR REFLECTED CEILING PLAN - NORTH BUILDING
A2.1	FINISH & DOOR SCHEDULES; DOOR & WINDOW TYPES; INTERIOR DOOR DETAILS
A3.1	PARTIAL EXTERIOR ELEVATIONS - SOUTH BUILDING
A5.1	EXTERIOR SIGNAGE - ELEVATION AND SECTION DETAILS
A6.1	ENLARGED FLOOR PLANS; TYPICAL INTERIOR RESTROOM ELEVATION; ACCESSORY MOUNTING HEIGHTS
A6.2	INTERIOR ELEVATIONS
A6.3	INTERIOR ELEVATIONS
A6.4	INTERIOR ELEVATIONS
A6.5	INTERIOR CABINET SECTIONS
PLUMBING	
P0.1	PLUMBING - LEGENDS, SCHEDULES, & SPECIFICATIONS
P1.1	DEMOLITION PLUMBING FLOOR PLAN - SOUTH BUILDING
P1.2	DEMOLITION PLUMBING FLOOR PLAN - SOUTH BUILDING
P1.3	DEMOLITION PLUMBING FLOOR PLAN - NORTH BUILDING
P1.4	PLUMBING FIRST FLOOR PLAN - SOUTH BUILDING
P1.5	PLUMBING SECOND FLOOR PLAN - SOUTH BUILDING
P1.6	PLUMBING SECOND FLOOR PLAN - NORTH BUILDING
MECHANICAL	
M0.1	HVAC - SCHEDULES & SPECIFICATIONS
M1.1	HVAC - FIRST FLOOR DEMOLITION PLAN - SOUTH BUILDING
M1.2	HVAC - SECOND FLOOR DEMOLITION PLAN - SOUTH BUILDING
M1.3	HVAC - SECOND FLOOR DEMOLITION PLAN - NORTH BUILDING
M1.4	HVAC - FIRST FLOOR PLAN - SOUTH BUILDING
M1.5	HVAC - SECOND FLOOR PLAN - SOUTH BUILDING
M1.6	HVAC - SECOND FLOOR PLAN - NORTH BUILDING
ELECTRICAL	
E0.1	LEGENDS
E0.2	GENERAL & DEMOLITION NOTES
E0.3	FIXTURE SCHEDULES & NOTES
E0.4	ELECTRICAL SPECIFICATIONS
E0.5	PANEL SCHEDULES & ONE-LINE DIAGRAM
E1.1	ELECTRICAL - FIRST FLOOR DEMOLITION PLAN - SOUTH BLDG.
E1.2	ELECTRICAL - FIRST FLOOR LIGHTING PLAN - SOUTH BLDG.
E1.3	ELECTRICAL - FIRST FLOOR POWER/ COMM. PLAN - SOUTH BLDG.
E1.4	ELECTRICAL - SECOND FLOOR DEMOLITION PLAN - SOUTH BLDG.
E1.5	ELECTRICAL - SECOND FLOOR LIGHTING PLAN - SOUTH BLDG.
E1.6	ELECTRICAL - SECOND FLOOR POWER/ COMM. PLAN - SOUTH BLDG.
E1.7	ELECTRICAL - SECOND FLOOR DEMOLITION PLAN - NORTH BLDG.
E1.8	ELECTRICAL - SECOND FLOOR LIGHTING PLAN - NORTH BLDG.
E1.9	ELECTRICAL - SECOND FLOOR POWER/ COMM. PLAN - NORTH BLDG.



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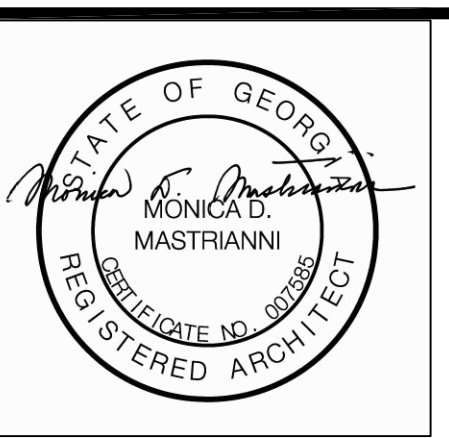
ALTERATIONS/ RENOVATION TO
EFFINGHAM COUNTY
ADMINISTRATION BUILDING
SPRINGFIELD, GEORGIA

REVISIONS

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2. Scale on detail sections are valid on the original drawing only and are hereby changed in proportion to the difference in size between the print and the original drawing.

3. Do not scale dimensions from prints. Plans and details are not always drawn to scale. Use dimensions given or consult the architect for further clarification.



RELEASED FOR CONSTRUCTION

JOB NO: 19.055
ISSUE DATE: 08/14/2020
DRAWN: JLE

T1.1

STRUCTURAL NOTES

BASIS OF DESIGN:

A. GRAVITY LOADS	
1. 2 ND FLOOR DEAD LOAD:	15 PSF
2. 2 ND FLOOR PARTITION LOADS:	15 PSF
3. 2 ND FLOOR LIVE LOADS:	
OFFICES:	50 PSF
CORRIDORS:	80 PSF
LOBBIES:	100 PSF
STAIRS:	100 PSF
TOILETS:	40 PSF

GENERAL:

- DO NOT SCALE DRAWINGS. FOLLOW DIMENSIONS SHOWN ON PLAN OR OBTAIN ADDITIONAL INFORMATION.
- CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN HEREIN WITH ARCHITECTURAL PLANS, SECTIONS, AND DETAILS PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE. CONTRACTOR SHALL NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES NOTED. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS NOT SHOWN HEREIN.
- WHERE DETAIL OR SECTION IS SHOWN FOR ONE CONDITION, IT SHALL APPLY TO ALL LIKE OR SIMILAR LOCATIONS.
- CONTRACTORS SHALL VISIT THE SITE PRIOR TO BID TO ASCERTAIN CONDITIONS WHICH MAY ADVERSELY AFFECT THE WORK OR COST THEREOF AND SHALL NOTIFY THE ARCHITECT IN WRITING PRIOR TO SUBMITTING BIDS.
- REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION, OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
- NO CHANGE IN SIZE OR DIMENSION OF ANY STRUCTURAL MEMBER SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD UNLESS SPECIFICALLY DETAILED ON THE CONTRACT DRAWINGS.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS AND CONSTRUCTION ACTIVITIES.
- THE USE OF REPRODUCTIONS OF CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER, IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS DURING THE WORK. THE ENGINEER WILL NOT ADVISE ON NOR ISSUE DIRECTION AS TO SAFETY PRECAUTIONS AND PROGRAMS.
- CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR MEANS, METHODS, SAFETY, TECHNIQUES, SEQUENCES, AND PROCEDURES OF ALL CONSTRUCTION SHOWN HEREIN. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTIBILITY, ANALYSIS, AND ERECTION PROCEDURES, INCLUDING DESIGN AND ERECTION OF FALSE WORK, TEMPORARY BRACING, ETC. CONTRACTOR HAS THE SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
- THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.

EXISTING CONSTRUCTION:

- DIMENSIONS INDICATED RELATIVE TO EXISTING STRUCTURES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE. CONTRACTOR SHALL NOTIFY ARCHITECT IN WRITING OF DISCREPANCIES.
- BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING STRUCTURE, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING STRUCTURAL AND OTHER CONDITIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.
- BEFORE PROCEEDING WITH ANY WORK, THE CONTRACTOR SHALL PERFORM A PRE-CONSTRUCTION SURVEY OF THE EXISTING BUILDING AT INTERIOR OF BUILDING WITHIN 10 FEET OF ALL REMODELING WHICH AFFECTS EXISTING STRUCTURAL SYSTEMS. CONTRACTOR SHALL FURNISH A REPORT TO THE ARCHITECT WHICH INCLUDES PHOTOGRAPHS WHICH DOCUMENT EXISTING BUILDING CRACKS OR OTHER COSMETIC FLAWS IN THE BUILDING. CONTRACTOR SHALL PROVIDE CRACK CONTROL MONITORS OR OTHER MONITORING DEVICES AS MAY BE WARRANTED BASED ON THE CONDITIONS OBSERVED.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ETC., NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE WORK TO THE EXISTING WORK. THE CONTRACTOR SHALL MAKE ALL FIELD MEASUREMENTS NECESSARY FOR THE COMPLETE DETAILING, FABRICATION, AND ERECTION OF ALL STRUCTURAL MEMBERS. ANY DISCREPANCY NOTED BETWEEN ASSUMPTIONS MADE ON THE DRAWINGS OF EXISTING FEATURES AND THE ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER. ALL DIMENSIONS OBTAINED IN FIELD AND USED AS A BASIS OF DETAILING SHALL BE CLEARLY INDICATED ON THE SHOP DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ERECTION OF ALL SHORING NECESSARY TO SAFEGUARD THE EXISTING STRUCTURE. ANY SHORING SHOWN HEREIN IS A PARTIAL AND SCHEMATIC REPRESENTATION OF THAT REQUIRED. THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN FOR SHORING, BRACING AND PROTECTION OF THE EXISTING CONSTRUCTION. THIS PLAN SHALL INCLUDE A CONSTRUCTION SEQUENCE AND SHALL BEAR THE SEAL OF THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA AND SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO BEGINNING THE WORK.

FOUNDATIONS:

- FOUNDATION DESIGN IS BASED ON AN ASSUMED MAXIMUM ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT FROM THOSE ASSUMED OR DESIGNED.
- ALLOWABLE BEARING PRESSURE SHALL BE VERIFIED BY FIELD TESTING IN ACCORDANCE WITH REQUIREMENTS OF THE PROJECT SPECIFICATIONS. IN THE ABSENCE OF SPECIFICATION REQUIREMENTS, A DYNAMIC CONE PENETROMETER TEST (ASTM STP-399) SHALL BE PROVIDED AT EACH COLUMN FOOTING EXCAVATION TO VERIFY AVAILABILITY OF THE DESIGN PRESSURE INDICATED.
- ALL FOOTINGS AND SLABS SHALL BEAR ON SUBGRADE COMPACTED TO A MINIMUM 95% ASTM D-1557 UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED IN PROJECT SPECIFICATIONS. UNLESS REQUIRED OTHERWISE BY SPECIFICATIONS, PROVIDE ONE COMPACTION TEST AT EACH COLUMN FOOTING EXCAVATION TO VERIFY REQUIRED COMPACTION HAS BEEN OBTAINED.
- ALL BOTTOM REINFORCING IN FOOTINGS AND THICKENED SLABS SHALL BE SUPPORTED WITH WHOLE CONCRETE BRICKS OR PREFABRICATED ALL PLASTIC CHAIR SUPPORT AT MAXIMUM 48" O.C. BAR SUPPORTS SHALL BE POSITIONED TO MAINTAIN NO LESS THAN 3" CLEAR TO BOTTOM OF LOWEST REINFORCING BAR.
- ALL FOOTING REINFORCING SHALL BE TIED IN PLACE PRIOR TO POURING CONCRETE.

TIMBER FRAMING:

- THE LOCATION, NUMBER, AND DIMENSIONS OF TIMBER FRAMING ARE DESIGNED TO SHOW GENERAL ARRANGEMENT ONLY. ACTUAL SPANS, SPACINGS, ETC., SHALL BE DETERMINED FROM THE ARCHITECTURAL DETAILS.
- SEE ARCHITECTURAL PLANS AND DETAILS FOR EDGE, SECTIONS, HEADER AND LINTEL LOCATIONS AND ALL NON-STRUCTURAL FRAMING AND TRIM.
- ALL TIMBER FRAMING MATERIAL SHALL BE SURFACE DRIED AND USED AT 19% MAXIMUM MOISTURE CONTENT.
- ALL JOIST, RAFTER AND MISCELLANEOUS FRAMING SHALL BE SYP NO. 2 GRADE OR BETTER.
- ALL FRAMING EXPOSED TO THE WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA SPECIFICATIONS.
- ALL NAILING NOT OTHERWISE INDICATED SHALL BE IN ACCORDANCE WITH TABLE 2304.9.1 OF THE IBC 2018 BUILDING CODE.
- BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. BOLTED CONNECTIONS SHALL BE SNUGGED TIGHT BUT NOT TO THE EXTENT OF CRUSHING WOOD UNDER WASHERS.
- PREMANUFACTURED (MICRO-LAM OR PARALLAM) HEADERS AND BEAMS SHALL BE AS MANUFACTURED BY TRUS-JOIST CORPORATION OR APPROVED EQUAL. DO NOT CUT OR NOTCH MICRO-LAM OR PARALLAM MATERIAL WITHOUT THE ENGINEERS APPROVAL.
- HOLES AND NOTCHES DRILLED OR CUT INTO WOOD FRAMING SHALL NOT EXCEED REQUIREMENTS OF IBC 2018, SECTIONS 2308.8.2 AND 2308.9.10.
- ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS FRAMING AND CONNECTION HARDWARE SHALL BE HOT-DIPPED GALVANIZED.

SPECIAL STRUCTURAL INSPECTIONS:

- SPECIAL INSPECTIONS**
 - SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED ON THIS PROJECT IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17 OF THE IBC 2018 BUILDING CODE.
 - SPECIAL STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED BY AN AGENCY SELECTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER OF RECORD (EOR) WHICH MEETS ALL OF THE REQUIREMENTS FOR APPROVAL INDICATED IN IBC 2018 SECTION 1704. SPECIAL INSPECTORS SHALL BE QUALIFIED PERSONS WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
 - THE CONTRACTOR SHALL COORDINATE THE INSPECTION SERVICES IN ACCORDANCE WITH THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE TO THE INSPECTOR TO ALLOW PROPER SCHEDULING OF PERSONNEL.
 - THE COSTS OF THE SPECIAL INSPECTORS SERVICES SHALL BE PAID FOR BY THE OWNER. COSTS OF INSPECTION SERVICES WHICH ARE EXEMPTED UNDER CHAPTER 17 AND SPECIFIED IN THE PROJECT SPECIFICATIONS, SHALL BE PAID FOR BY THE CONTRACTOR.
- REPORTS**
 - SPECIAL INSPECTORS SHALL KEEP A RECORD OF ALL INSPECTIONS PERFORMED. COPIES OF ALL INSPECTIONS SHALL BE FURNISHED TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE EOR WITHIN 48 HOURS OF THE INSPECTION.
 - REPORTS SHALL INDICATE THAT THE WORK WAS PERFORMED AND CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WORK WHICH DOES NOT CONFORM TO THE CONTRACT DOCUMENTS SHALL BE IDENTIFIED IN THE REPORT AND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR.
 - A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS INCLUDING ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, THE ARCHITECT, AND THE EOR PRIOR TO COMPLETION OF THE STRUCTURAL SYSTEMS BUT AT A FREQUENCY NOT TO EXCEED 60 DAYS.
- REQUIRED SPECIAL INSPECTIONS**

IBC SECTION	DESCRIPTION OF WORK	SPECIAL INSPECTION REQUIRED		REMARKS
		YES	NO	
1704.2.5	INSPECTION OF FABRICATORS		X	
1705.2	STEEL CONSTRUCTION		X	
1705.3	CONCRETE CONSTRUCTION	X		1
1705.4	MASONRY CONSTRUCTION		X	
1705.5	WOOD CONSTRUCTION		X	
1705.6	SOILS	X		2
1705.7	DRIVEN DEEP FOUNDATION		X	
1705.8	CAST-IN-PLACE DEEP FOUNDATIONS		X	
1705.9	HELICAL PILE FOUNDATIONS		X	
1705.10	WIND RESISTANCE		X	
1705.11	SEISMIC RESISTANCE		X	
1705.12	TESTING AND QUALIFICATIONS FOR SEISMIC RESISTANCE		X	
1705.13	SPRAYED FIRE-RESISTANT MATERIALS		X	
1705.14	MASTIC AND INTUMESCENT COATINGS		X	
1705.15	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)		X	

REMARKS:

- CONCRETE SPECIAL INSPECTION: CONTINUOUS AND PERIODIC INSPECTIONS, AS DEFINED BY SECTION 202 OF THE IBC 2018 BUILDING CODE, SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.3 AND TABLE 1705.3.
- SOILS SPECIAL INSPECTION: INSPECTION OF THE EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD BEARING REQUIREMENTS SHALL BE PERFORMED BY THE SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1705.6 AND TABLE 1705.6.

STRUCTURAL LEGEND

SYMBOLS

	FOOTING
	UNREINFORCED CONCRETE MASONRY
	REINFORCED CONCRETE MASONRY
	CONCRETE
	BOND BEAM
	REINFORCED MASONRY PIERS
	DROP SLAB TO RECEIVE FLOOR FINISH
	THICKENED SLAB
	FLOOR JOINT
	WALL FLOOR JOINT
	SAWN JOINT
	1" DEEP TOOLED JOINT
	CONCRETE SLAB TURNDOWN
	SLOPE (DIRECTION AND DROP)
	VERTICAL STEP IN WALL FOOTING
	TOP OF STEEL ELEVATION
	TOP OF FOOTING ELEVATION
	ADD #4x4'-0" IN CENTERLINE OF SLAB
	HIGH STRENGTH BOLT
	JOIST BOTTOM CHORD STRUT
	ROOF DRAIN
	FRAME AROUND ROOF DECK OPENING
	BEAM TO COLUMN MOMENT CONNECTION

ABBREVIATIONS

W/	WITH
DBL.	DOUBLE
BOT.	BOTTOM
DJ	DOUBLE JOIST
SIM	SIMILAR
T/O	THROUGHOUT
U.N.	UNLESS NOTED
P.E.J.	PRE-MOLDED EXPANSION JOINT
GA.	GAUGE
E.W.	EACH WAY
O.C.	ON CENTER
CL	CLEARANCE
FD	FLOOR DRAIN
LLV	LONG LEG VERTICAL
SLV	SHORT LEG VERTICAL
EJ	EXPANSION JOINT
MBM	METAL BUILDING MANUFACTURER
MBP	METAL BUILDING PURLINS
O.H.	OPPOSITE HAND
PB	PARALAM BEAM
ML	MICROLAM BEAM
RS	ROUGH SAWN
P.T.	PRESSURE TREATED
P.E.	PRE-ENGINEERED

STRUCTURAL SHEET INDEX

- S1.0 STRUCTURAL NOTES**
- S1.1 FOUNDATION PLAN MODIFICATIONS**
- S2.1 SECOND FRAMING PLAN MODIFICATIONS**

MATERIAL SPECIFICATIONS:

- CONCRETE**
- FOUNDATIONS: 3000 PSI 28 DAY COMPRESSIVE STRENGTH (NON-AIR ENTRAINED)
 - REINFORCING BARS: ASTM A615, GRADE 60, DEFORMED

TIMBER

- FRAMING: SYP NO. 2 KD OR BETTER
- STUDS: SYP STUD GRADE OR BETTER



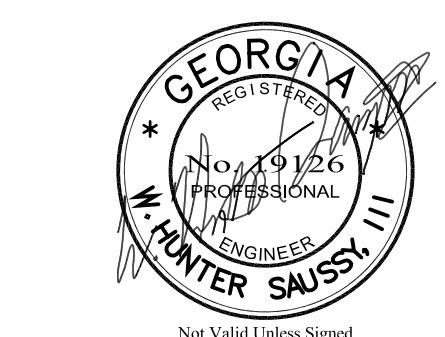
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REVISIONS

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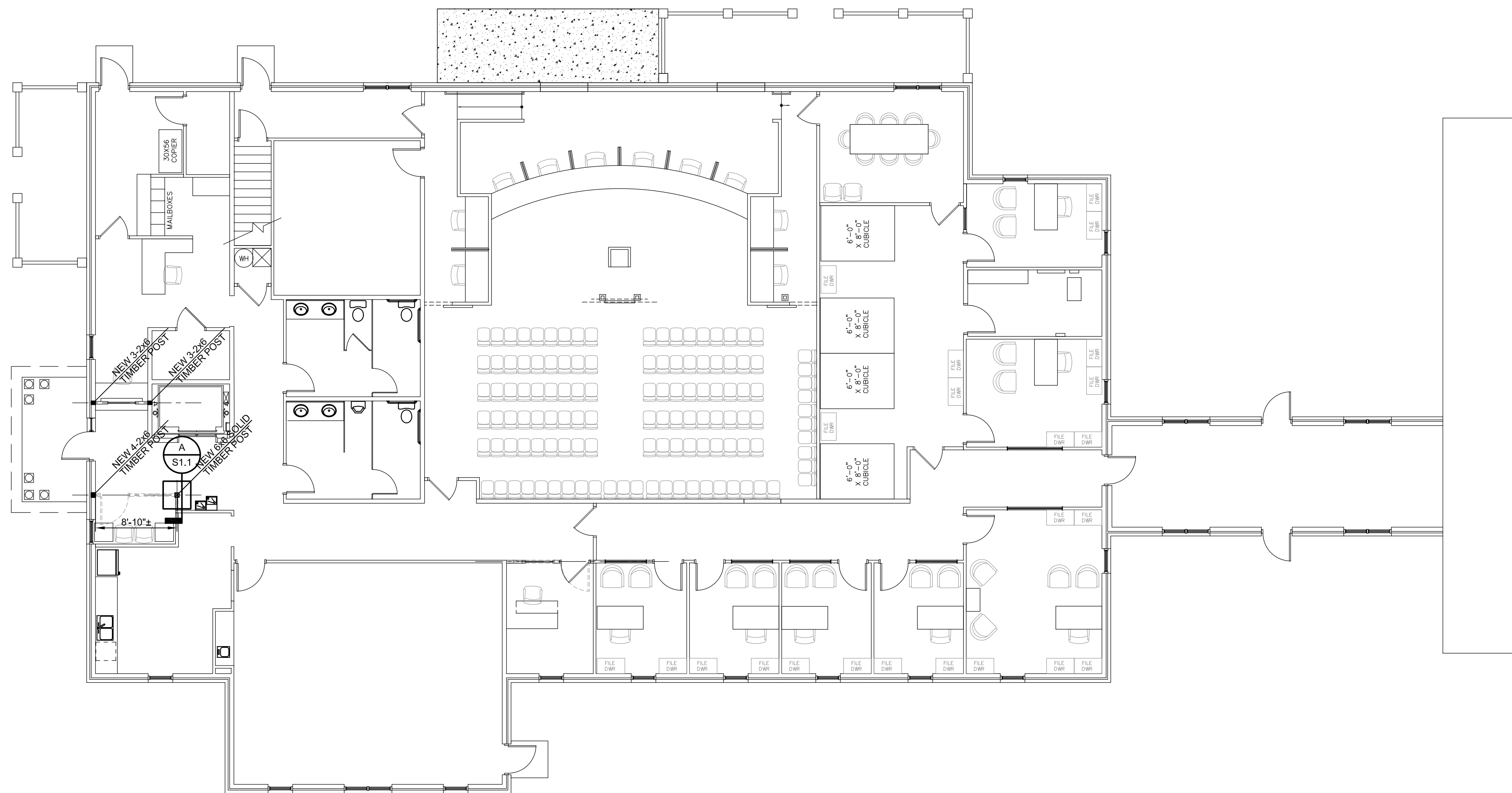
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Phone: (912) 898-8255 • Fax: (912) 898-1882

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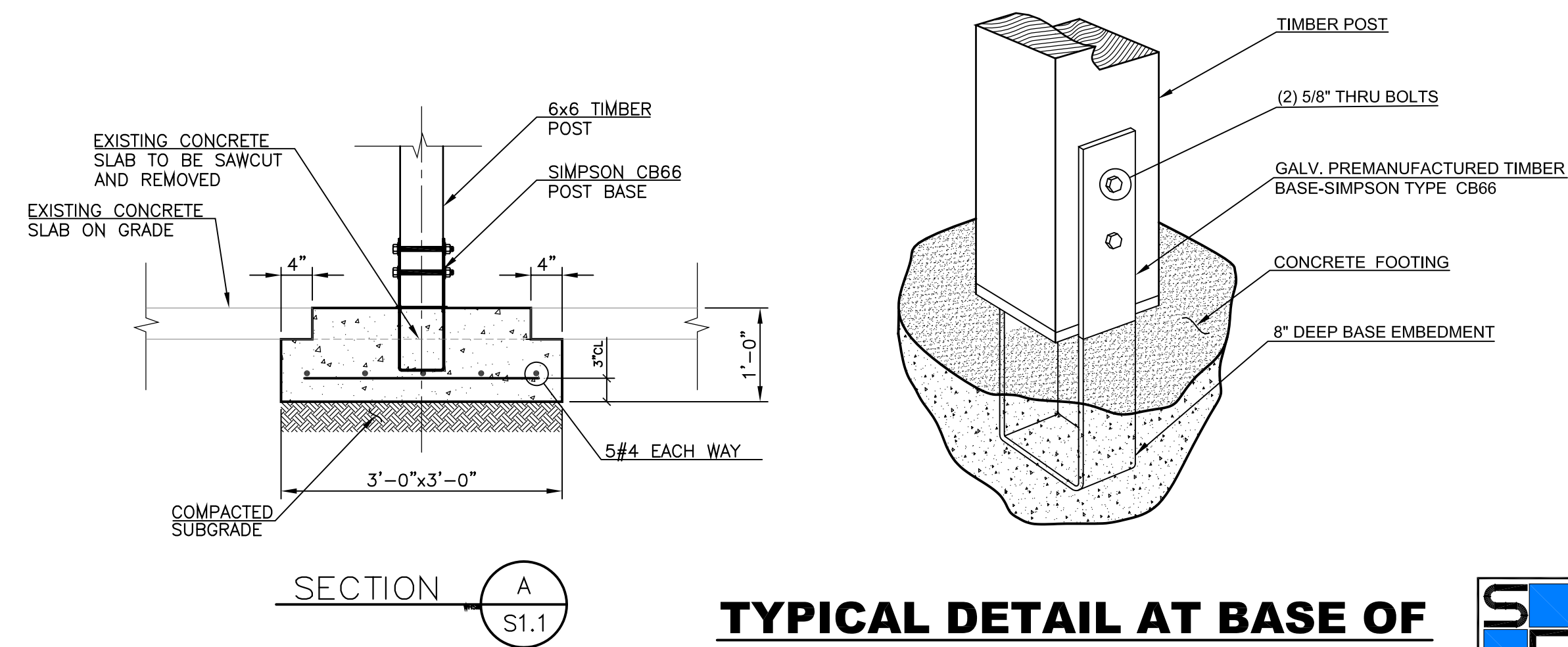
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FOUNDATION PLAN MODIFICATIONS
SCALE: 1/8"=1'-0"



TYPICAL DETAIL AT BASE OF
SOLID TIMBER COLUMNS

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FOUNDATION PLAN
MODIFICATIONS

REVISIONS

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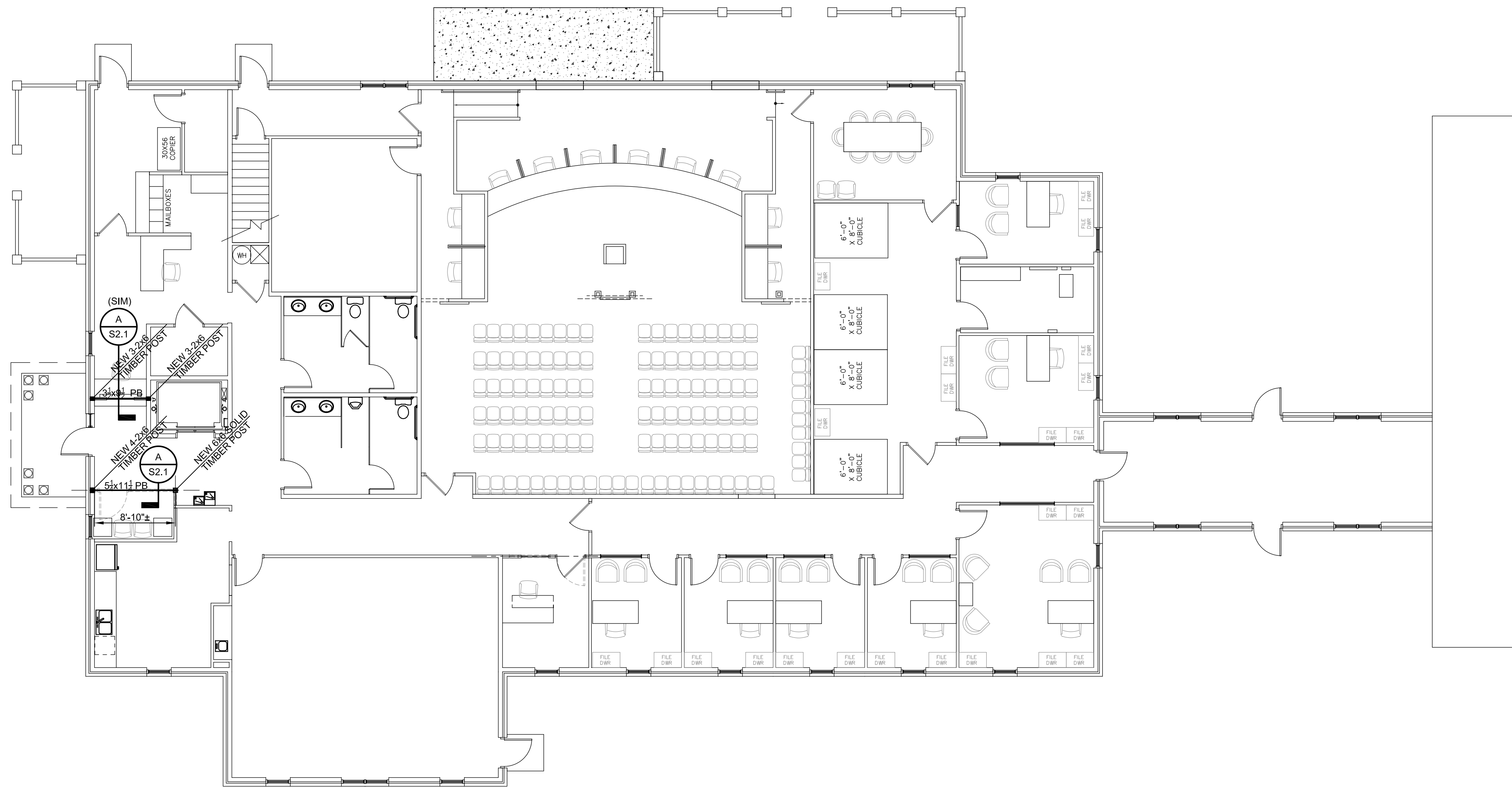
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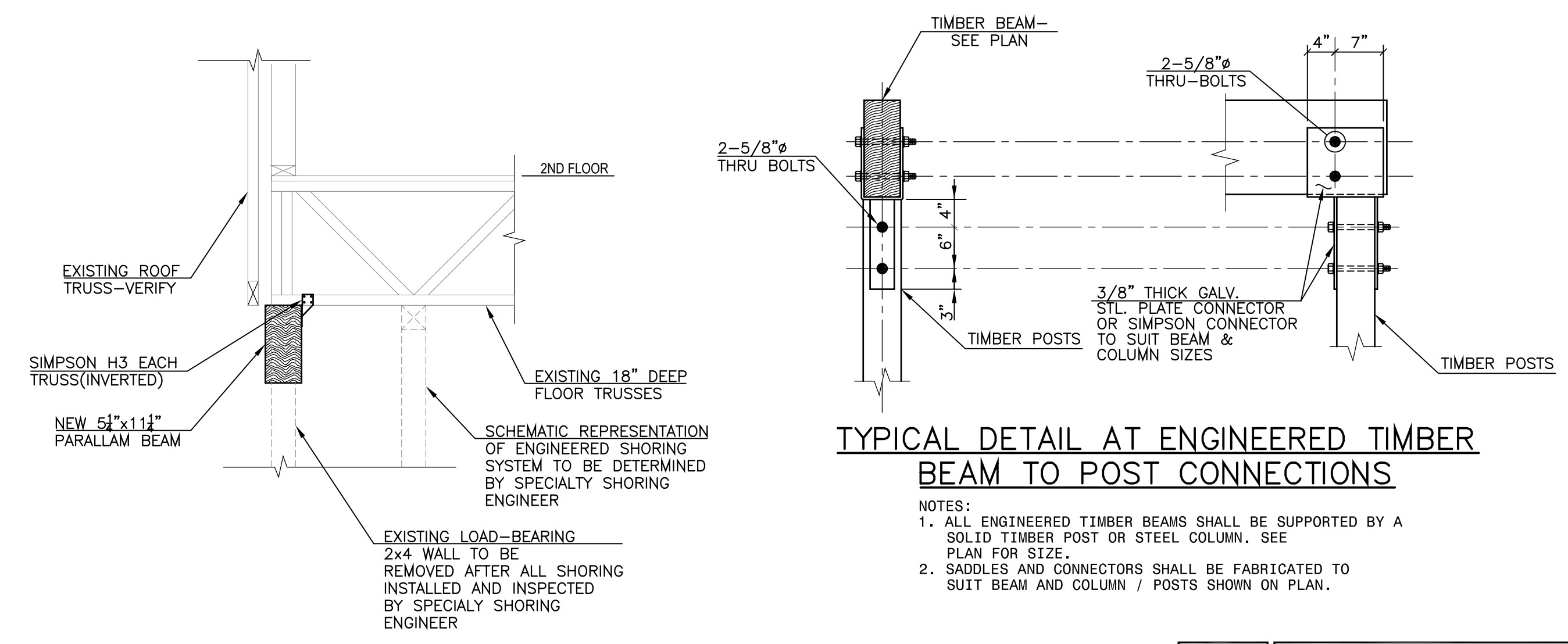
SECOND FLOOR FRAMING PLAN MODIFICATIONS
SCALE: 1/8"=1'-0"

ALTERATIONS / RENOVATION TO
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SPRINGFIELD, GEORGIA

SECOND FLOOR
FRAMING PLAN
MODIFICATIONS

REVISIONS

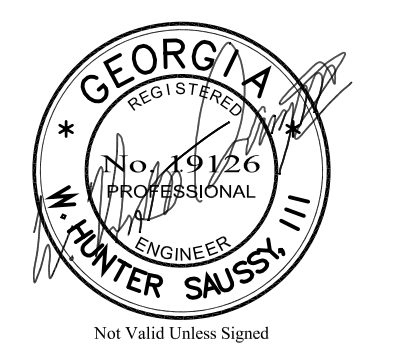
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TYPICAL DETAIL AT ENGINEERED TIMBER BEAM TO POST CONNECTIONS

- NOTES:
1. ALL ENGINEERED TIMBER BEAMS SHALL BE SUPPORTED BY A SOLID TIMBER POST OR STEEL COLUMN. SEE PLAN FOR SIZE.
 2. SADDLES AND CONNECTORS SHALL BE FABRICATED TO SUIT BEAM AND COLUMN / POSTS SHOWN ON PLAN.

SECTION A
S2.1

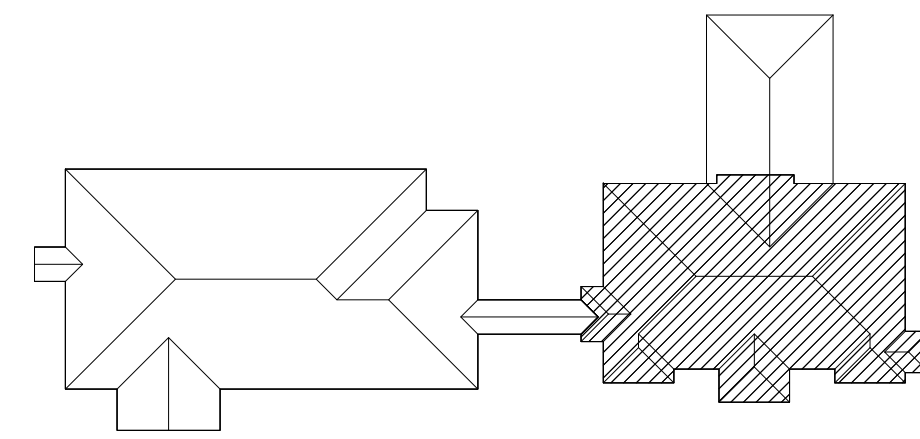
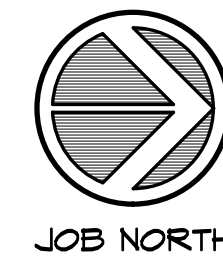
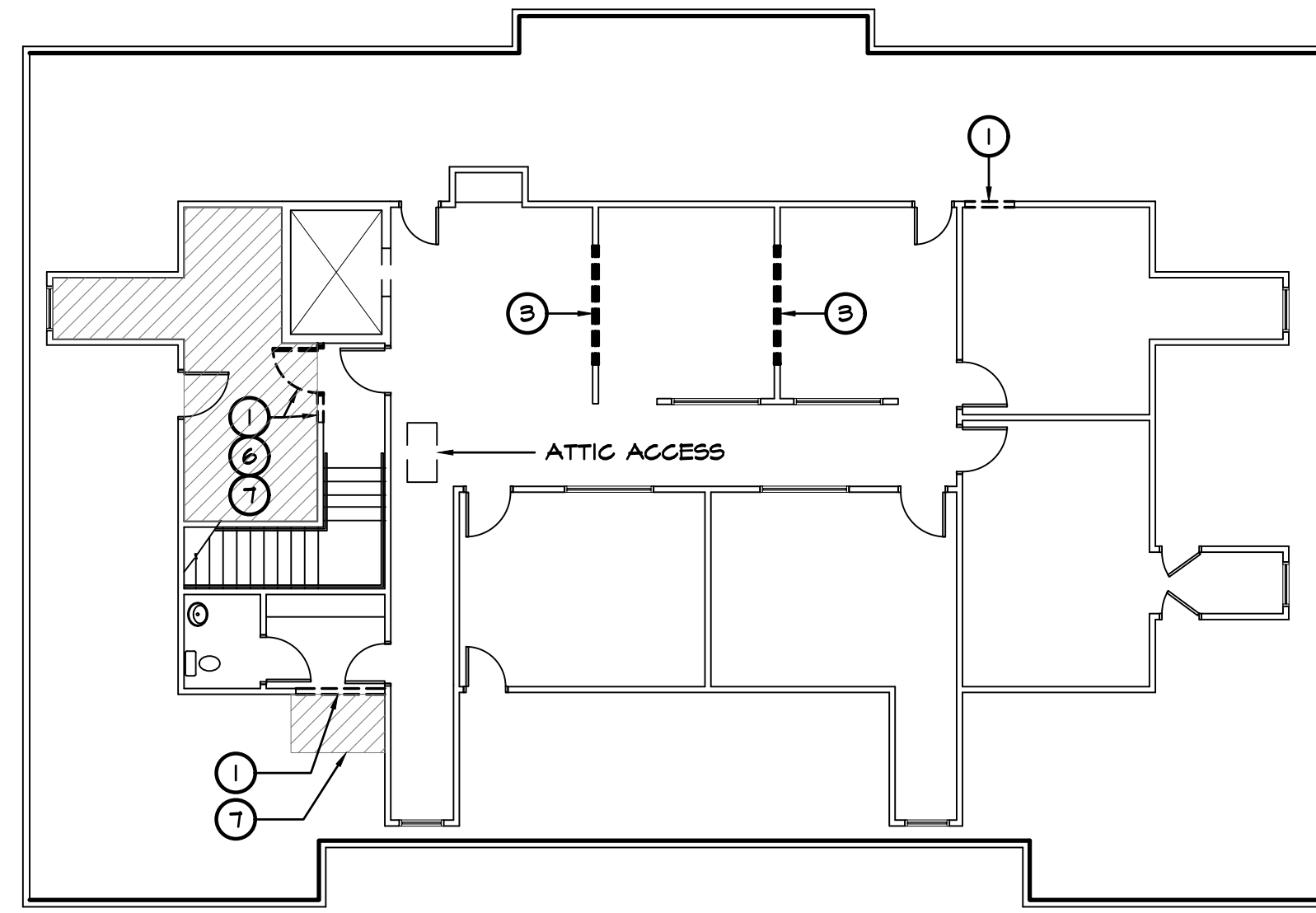


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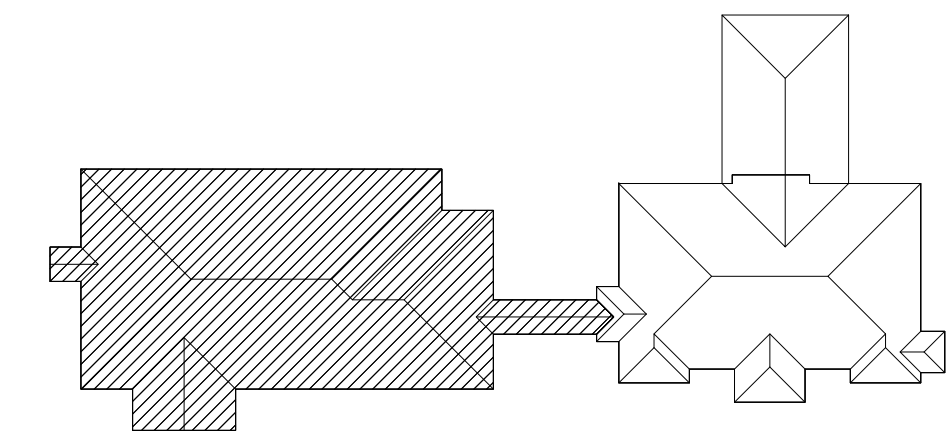
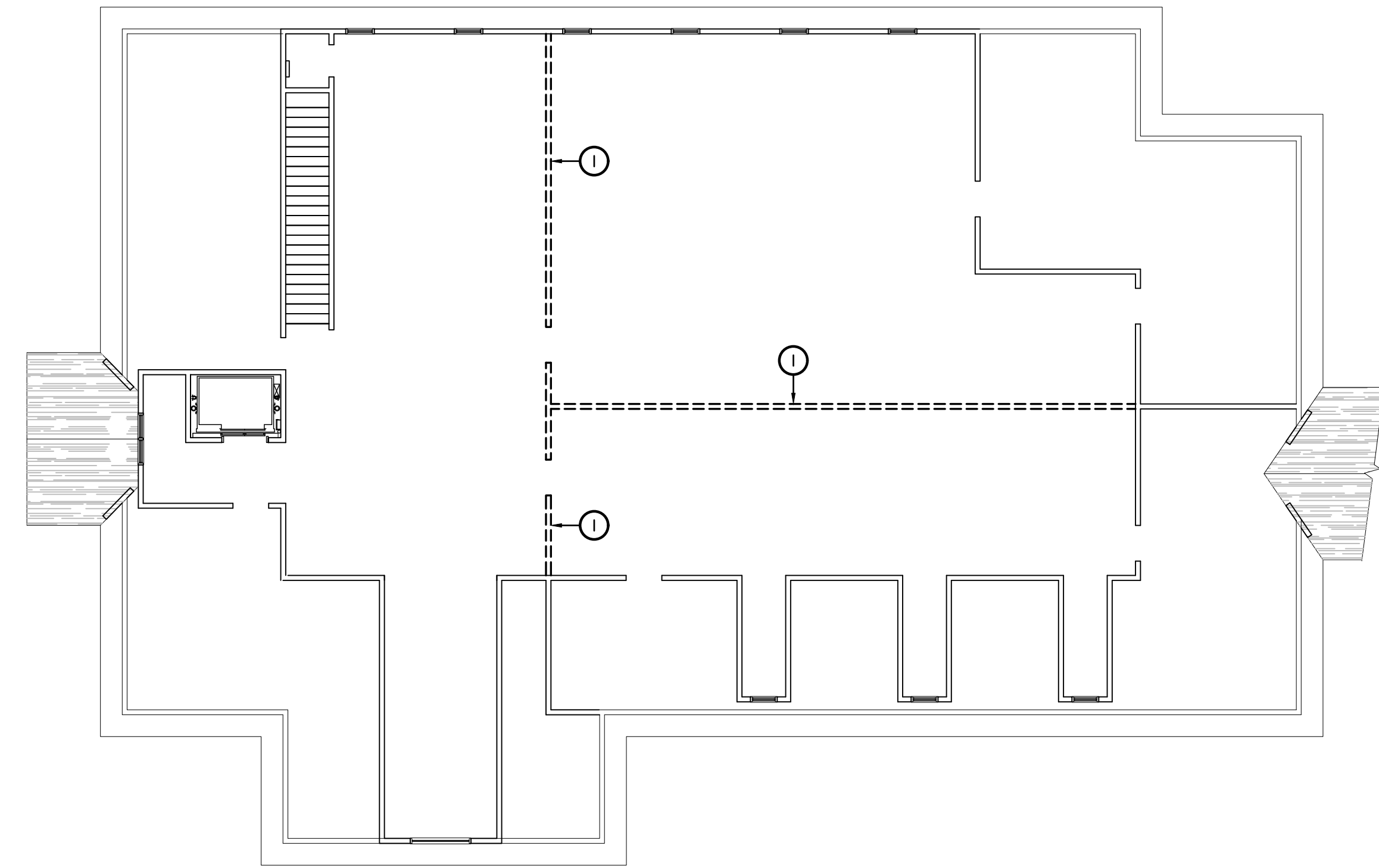
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S2.1



3
D1.1 SECOND FLOOR PLAN (DEMOLITION) - NORTH BUILDING
SCALE: 3/32"=1'-0"



2
D1.1 SECOND FLOOR PLAN (DEMOLITION) - SOUTH BUILDING
SCALE: 3/32"=1'-0"

WALL LEGEND:

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED

- REMOVE EXISTING FLOOR FINISHES THIS AREA, WHERE EXISTING WALLS REMOVED, NEW INFILL FLOORING TO MATCH EXISTING.

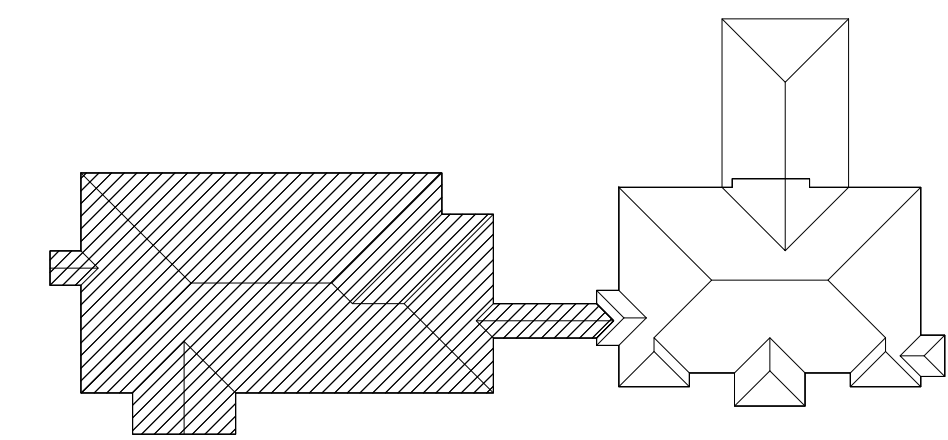
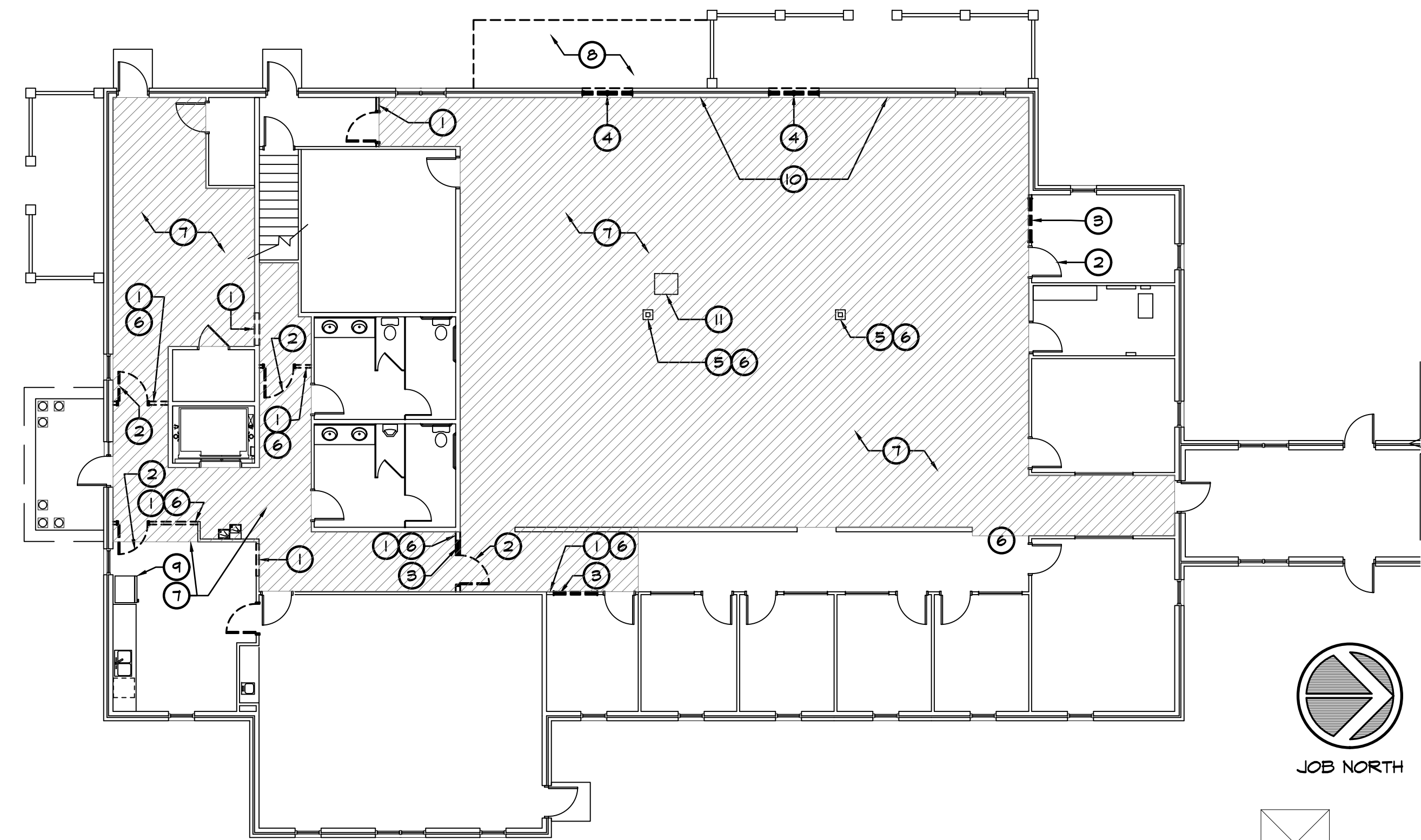
GENERAL NOTES:

- 1.) ALL EXISTING EQUIPMENT TO BE REMOVED WILL BE RETAINED FOR POSSIBLE RE-USE OR SALE AS PER OWNER'S DIRECTION.
- 2.) GENERAL CONTRACTOR TO TAKE EXTREME CAUTION WHEN REMOVING STRUCTURE. ALL BEAMS AND STRUCTURAL WALLS TO REMAIN UNTIL FURTHER STRUCTURAL EVALUATION. CONTRACTOR TO CALL ARCHITECT OF ANY DISCREPANCIES.
- 3.) PREPARE ENTIRE FLOOR WHERE REQUIRED FOR NEW FINISHES, FILL IN ANY HOLES WHERE NOTED/ SCHEDULED.
- 4.) COORDINATE ALL DEMOLITION W/ NEW ARCHITECTURAL PLAN. COORDINATE W/ ARCHITECT ANY DIFFERENCES IN DEMOLITION AS SHOWN.
- 5.) CONTRACTOR RESPONSIBLE FOR PROVIDING SHORING TO ALL STRUCTURAL WALLS DURING DEMOLITION.
- 6.) PROVIDE DUST CONTROL MEASURES @ BUILDING SITE.
- 7.) GENERAL CONTRACTOR RESPONSIBLE FOR COORDINATION OF ALL TRADES.
- 8.) ALL TRADES TO INSPECT EXISTING CONDITIONS PRIOR TO BEGINNING WORK OR PROVIDING GENERAL CONTRACTOR WITH COST ESTIMATES.
- 10.) EXISTING GYP. BOARD WALLS TO REMAIN WHERE POSSIBLE. PATCH AND SAND WHERE WALLS WERE DAMAGED DUE TO DEMOLITION.
- 11.) PREPARE ALL WALLS WHERE SCHEDULED FOR NEW PAINT

PROJECT DEMOLITION NOTES:

- 1) REMOVE EXISTING WALL (AND ASSOCIATED ELECTRICAL, IF APPLICABLE). TAKE EXTREME CARE TO ALLOW FOR SHORING AT ANY LOAD BEARING STRUCTURE TO REMAIN AND TO SUPPORT ROOF AS NEEDED.
- 2) EXISTING DOOR TO BE REMOVED. RETAIN AND STORE FOR POSSIBLE RE-USE.
- 3) EXISTING INTERIOR WINDOW TO BE REMOVED. DISCARD. PREPARE FOR NEW INFILL.
- 4) EXISTING EXTERIOR WINDOWS TO BE REMOVED. INFILL OPENINGS TO MATCH EXISTING CONDITIONS.
- 5) EXISTING COLUMN TO REMAIN. REMOVE FINISHES BACK TO COLUMN AND PREPARE FOR NEW FINISH. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION IN REGARDS TO EXISTING/ NEW COLUMN LOCATIONS.
- 6) PARTIAL DEMOLITION OF GYP. BOARD/ ACPS CEILING THIS AREA. REFER TO REFLECTED CEILING PLANS FOR NEW LAYOUT.
- 7) REMOVE EXISTING FLOOR FINISHES. PREPARE FOR NEW FLOOR FINISHES.
- 8) PREPARE AREA FOR NEW CONCRETE SLAB.
- 9) MODIFY EXISTING COUNTER TO ACCEPT NEW WALL PLACEMENT.
- 10) REMOVE WALL FINISH AS NECESSARY TO HIDE NEW MECHANICAL LINES IN WALL. COORDINATE WITH MECHANICAL SHEETS.
- 11) COORDINATE TRENCH IN CONCRETE SLAB FOR WIRING TO PODIUM, SEE A6.1.

4
D1.1 LEGENDS AND NOTES
SCALE: N.T.S.



1
D1.1 FIRST FLOOR PLAN (DEMOLITION) - SOUTH BUILDING
SCALE: 3/32"=1'-0"



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ALTERATIONS/ RENOVATION TO
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**SOUTH AND
NORTH BUILDINGS
DEMOLITION PLANS**

REVISIONS

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D1.1

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LEGEND:

— EXISTING CONSTRUCTION TO REMAIN

— NEW CONSTRUCTION

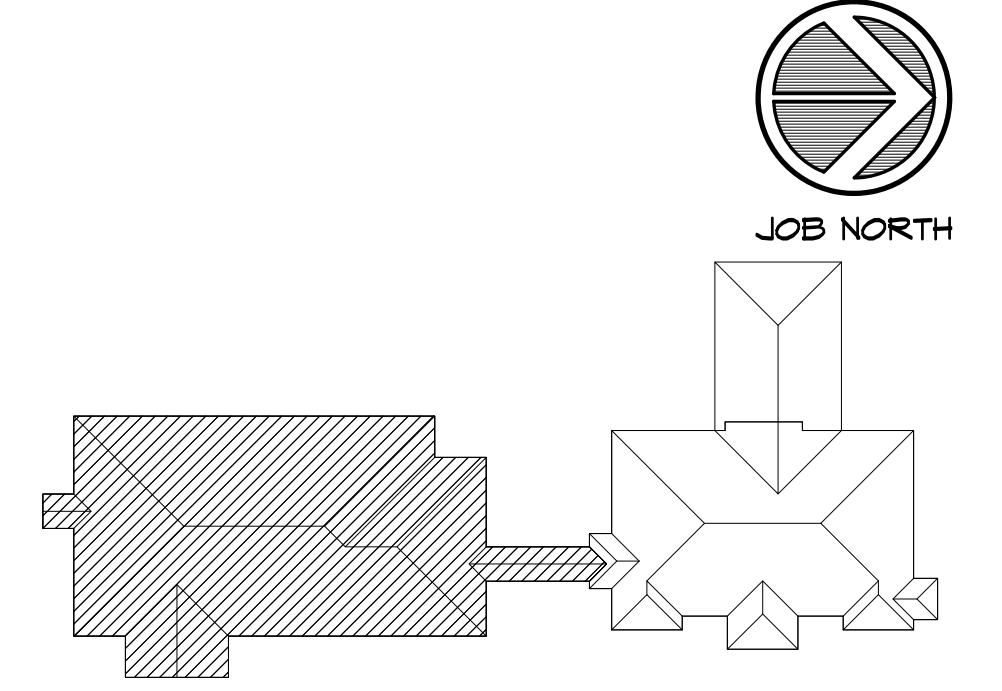
- GENERAL CONSTRUCTION NOTES:**
1. ALL NEW WALLS TO BE 2x4 WOOD STUD w/ 5/8" GYPSUM BOARD EACH SIDE UNLESS OTHERWISE NOTED.
 2. BUILDER IS RESPONSIBLE FOR ALL SPECIAL PERMITTING FOR DUMPSTERS, WALKWAY CLOSINGS, PARKING SPACE CLOSINGS, AND HEAVY EQUIPMENT USAGE. CONTRACTOR RESPONSIBLE FOR ALL INSPECTIONS.
 3. PRESERVE AND PROTECT ALL WALLS, FLOORS, CEILINGS, WINDOWS AND DOORS WHERE DEMOLITION IS NOT INTENDED.
 4. CONTRACTOR TO PROVIDE FLYWOOD BACKING OR WOOD BLOCKING BEHIND DRYWALL AS NEEDED FOR MOUNTING OF CASEWORK AND FIXTURES.
 5. ALL WALLS & CEILINGS WITHIN AREAS OF CONSTRUCTION TO RECEIVE NEW PAINT.
 6. ALL EXISTING STRUCTURE TO BE REUSED WHERE POSSIBLE.
 7. CONTRACTOR RESPONSIBLE FOR PROVIDING SHORING TO ALL STRUCTURAL WALLS DURING DEMOLITION AND CONSTRUCTION.
 8. ALL WORK UNDER THIS CONTRACT SHALL CONFORM TO ALL CODES, ORDINANCES, AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION OVER THIS WORK WHETHER SHOWN IN THESE DOCUMENTS OR NOT.
 9. CONTRACTOR SHALL SECURE AND PAY FOR ALL INSURANCE CALLED FOR BY LAW AND AS DIRECTED BY FUNDING INSTITUTION.
 10. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL WORK WITH ALL TRADES INVOLVED.
 11. GENERAL CONTRACTOR SHALL VERIFY ALL ELEVATIONS, DIMENSIONS AND LOCATIONS OF EXISTING FEATURES BEFORE STARTING WORK, NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
 12. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD BUILDING CODE, OSHA, ACI, AISC, AND AITC CODES AND REQUIREMENTS AND ALL APPLICABLE STANDARDS.
 13. COORDINATE EXISTING MEP WITH NEW GRILLES. REFER TO MECHANICAL PLANS.
 14. ALL NEW DOORS TO BE SET 6" OF ADJACENT CORNER UNLESS NOTED OTHERWISE.
 15. COORDINATE w/ OWNER FOR ALL INTERIOR FINISH SELECTIONS (SEE A2.1).
 16. ALL NEW DOORS TO BE SOLID CORE WOOD UNLESS OTHERWISE SPECIFIED.
 17. GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND VENDOR DRAWINGS FOR COORDINATION OF EQUIPMENT IN AND/OR BENEATH WALLS.
 18. CUBICLES, FILES, AND FURNITURE SHOWN FOR COORDINATION ONLY. NOT IN CONTRACT.

SQUARE FOOTAGES:

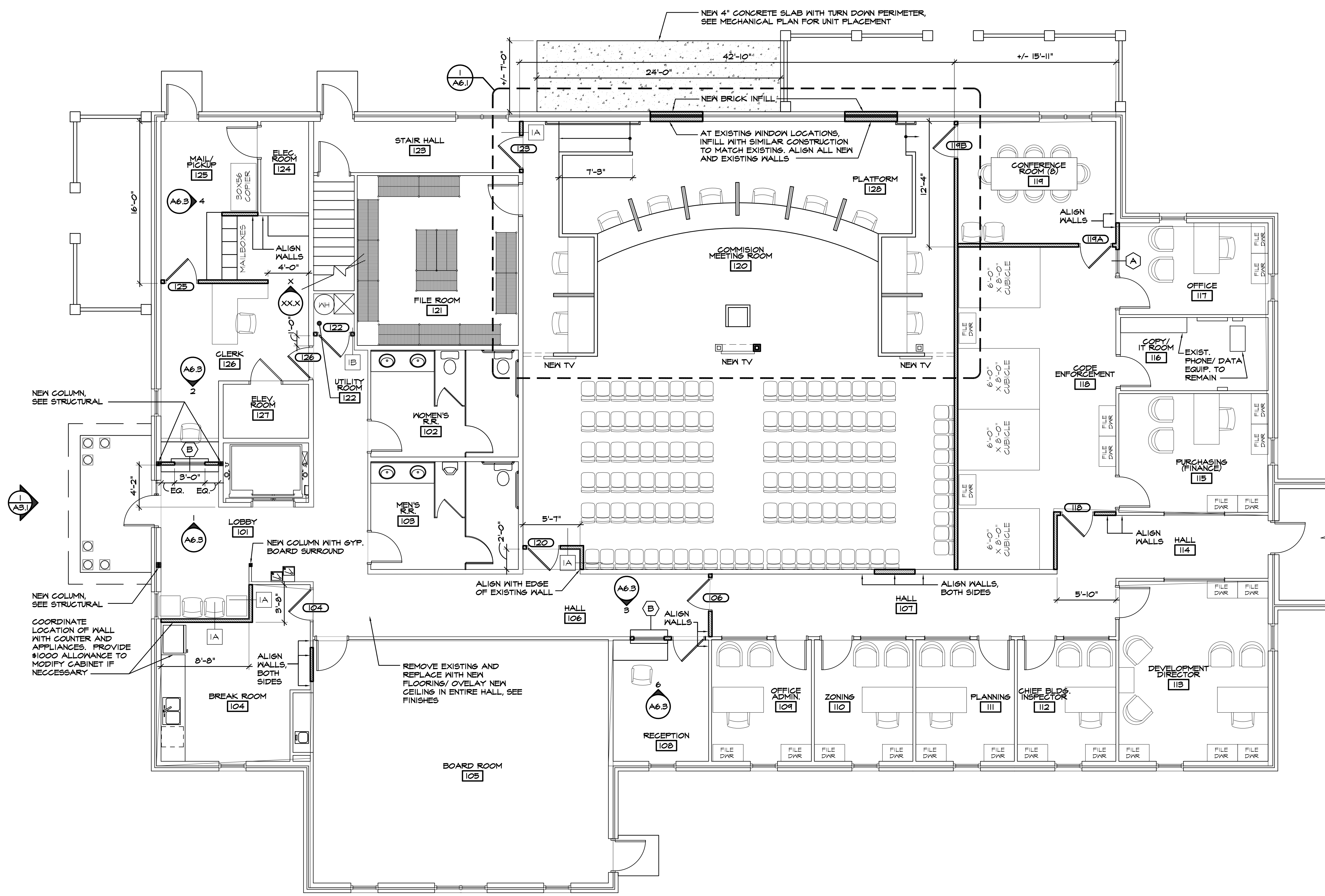
FIRST FLOOR (SOUTH BUILDING) AREA OF RENOVATION	7,080 S.F. (TOTAL) 3,476 S.F.
SECOND FLOOR (SOUTH BUILDING) AREA OF RENOVATION	4,280 S.F. (TOTAL) 3,902 S.F.
SECOND FLOOR (NORTH BUILDING) AREA OF RENOVATION	2,325 S.F. (TOTAL) 504 S.F.

GROSS SF=7,080 S.F. (TOTAL)
NET SF. = 7080 - 2160 = 4920 NET
4920 BUSINESS - 1876(ASSEMBLY) = 3044/150 = 21 PERSONS
1876/15 = 125 PERSONS + 21 PERSONS = 146 PERSONS TOTAL

LEGEND AND NOTES
SCALE: N.T.S.



KEY PLAN
SCALE: N.T.S.



FIRST FLOOR PLAN - SOUTH BUILDING
SCALE: 3/16"=1'-0"

LEGEND:

— EXISTING CONSTRUCTION TO REMAIN

— NEW CONSTRUCTION

GENERAL CONSTRUCTION NOTES:

- ALL NEW WALLS TO BE 2x4 WOOD STUD w/ 5/8" GYPSUM BOARD EACH SIDE UNLESS OTHERWISE NOTED.
- BUILDER IS RESPONSIBLE FOR ALL SPECIAL PERMITTING FOR DUMPSTERS, WALKWAY CLOSINGS, PARKING SPACE CLOSINGS, AND HEAVY EQUIPMENT USAGE. CONTRACTOR RESPONSIBLE FOR ALL INSPECTIONS.
- PRESERVE AND PROTECT ALL WALLS, FLOORS, CEILINGS, WINDOWS AND DOORS WHERE DEMOLITION IS NOT INTENDED.
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- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD BUILDING CODE, OSHA, ACI, AISC, AND AITC CODES AND REQUIREMENTS AND ALL APPLICABLE STANDARDS.
- COORDINATE EXISTING MEP WITH NEW GRILLES. REFER TO MECHANICAL PLANS.
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- ALL NEW DOORS TO BE SOLID CORE WOOD UNLESS OTHERWISE SPECIFIED.
- GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND VENDOR DRAWINGS FOR COORDINATION OF EQUIPMENT IN AND/OR BENEATH WALLS.

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SECOND FLOOR (NORTH BUILDING) AREA OF RENOVATION	2,325 S.F. (TOTAL) 504 S.F.

GROSS SF=4,250 S.F. (TOTAL)
NET SF. = 4250 - 1220 = 3030 NET/150 = 21 PERSONS

2 **A1.2** **LEGEND AND NOTES**
SCALE: N.T.S.

3 **A1.2** **KEY PLAN**
SCALE: N.T.S.

1 **A1.2** **REVISIONS**

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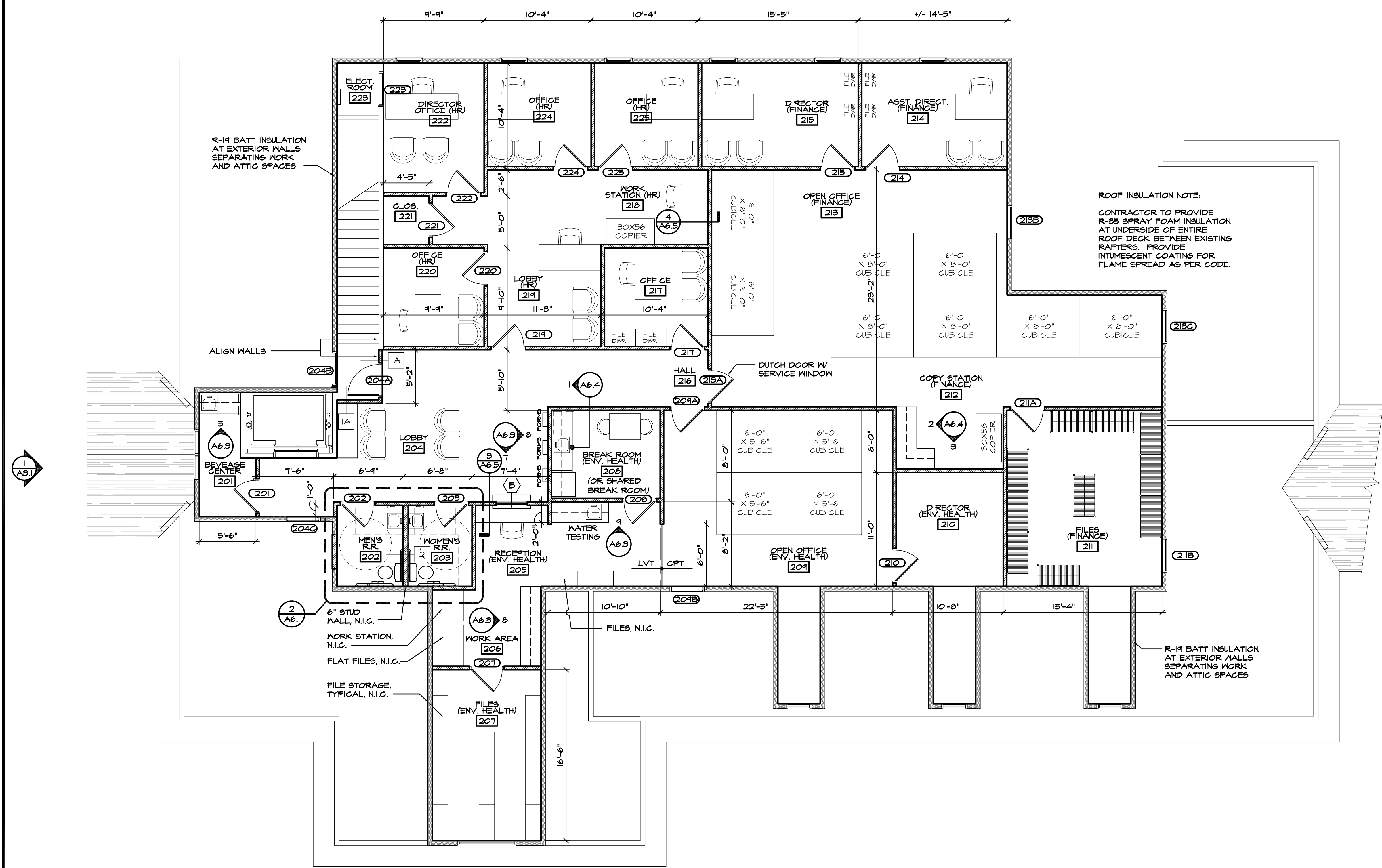
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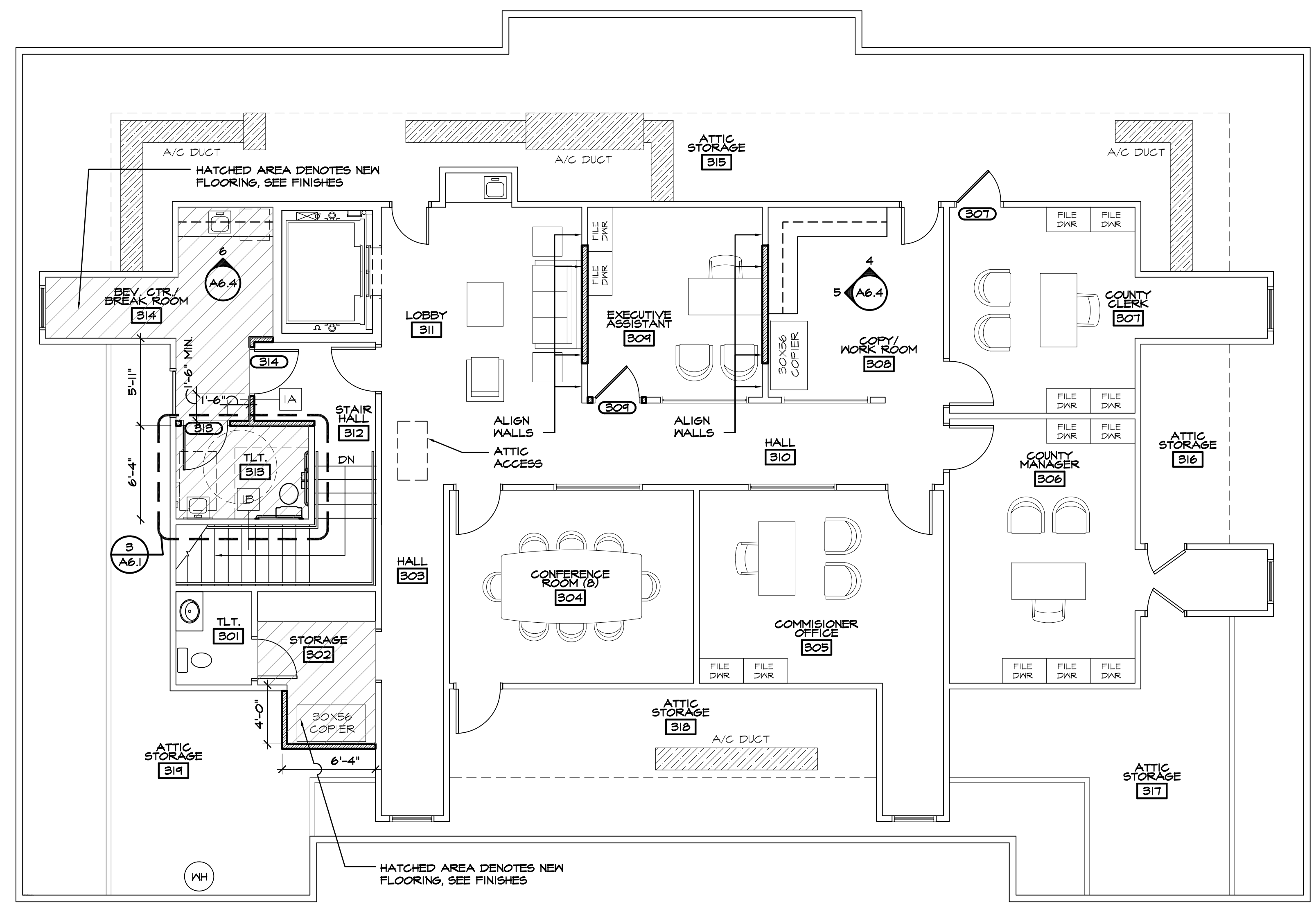
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1 **A1.2** **SECOND FLOOR PLAN - SOUTH BUILDING**
SCALE: 3/16"=1'-0"



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LEGEND:

	EXISTING CONSTRUCTION TO REMAIN
	NEW CONSTRUCTION

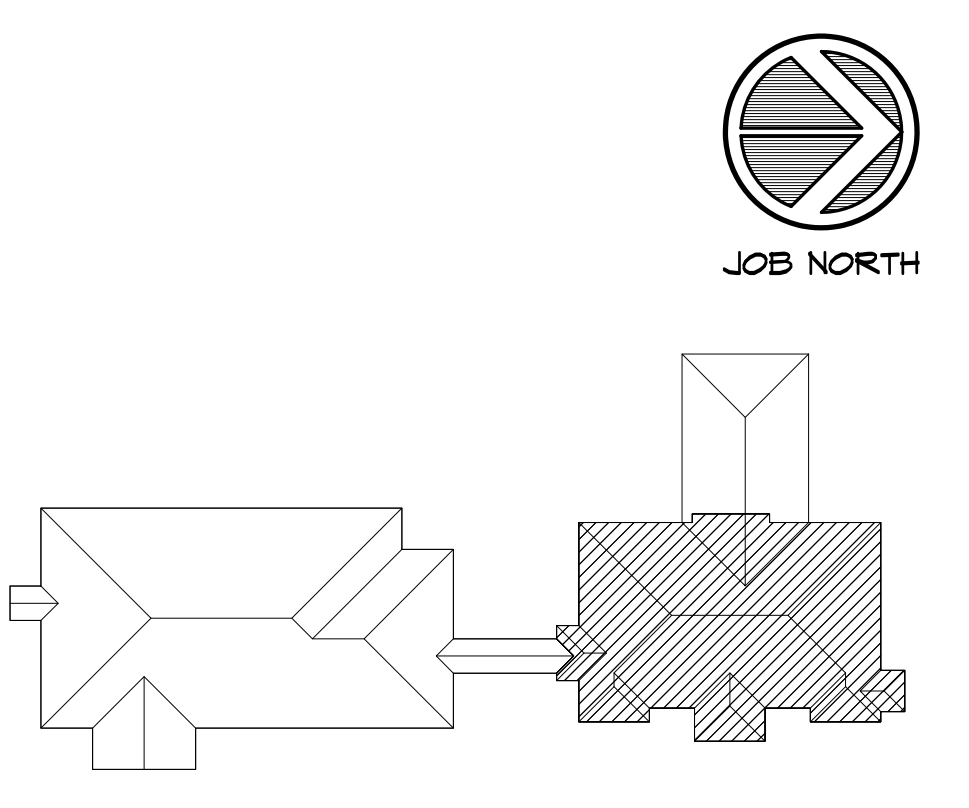
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 - COORDINATE EXISTING MEP WITH NEW GRILLES. REFER TO MECHANICAL PLANS.
 - ALL NEW DOORS TO BE SET 6" OF ADJACENT CORNER UNLESS NOTED OTHERWISE.
 - COORDINATE w/ OWNER FOR ALL INTERIOR FINISH SELECTIONS (SEE A2.1).
 - ALL NEW DOORS TO BE SOLID CORE WOOD UNLESS OTHERWISE SPECIFIED.
 - GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND VENDOR DRAWINGS FOR COORDINATION OF EQUIPMENT IN AND/OR BENEATH WALLS.
 - CUBICLES, FILES, AND FURNITURE SHOWN FOR COORDINATION ONLY. NOT IN CONTRACT.

SQUARE FOOTAGES:

FIRST FLOOR (SOUTH BUILDING) AREA OF RENOVATION	7,080 S.F. (TOTAL) 3,476 S.F.
SECOND FLOOR (SOUTH BUILDING) AREA OF RENOVATION	4,250 S.F. (TOTAL) 3,902 S.F.
SECOND FLOOR (NORTH BUILDING) AREA OF RENOVATION	2,325 S.F. (TOTAL) 504 S.F.

GROSS SF=2325 S.F. (TOTAL)
NET SF. = 2325/150 = 16 PERSONS

2 **LEGEND AND NOTES**
SCALE: N.T.S.



3 **KEY PLAN**
SCALE: N.T.S.

ALTERATIONS/ RENOVATION TO
EFFINGHAM COUNTY
ADMINISTRATION BUILDING
SPRINGFIELD, GEORGIA

NORTH BUILDING
SECOND FLOOR PLAN

REVISIONS

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2. Scales as stated herein are valid on the original drawing only and are hereby changed in proportion to the difference in size between the print and the original drawing.

3. Do not scale dimensions from prints. Plans and details are not always drawn to scale. Use dimensions given or consult the architect for further clarification.



RELEASED FOR CONSTRUCTION

JOB NO: 19.055
ISSUE DATE: 08/14/2020
DRAWN: JLE

A1.3

1 **SECOND FLOOR PLAN - NORTH BUILDING**
SCALE: 3/16"=1'-0"



28 E 35TH ST
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ALTERATIONS/ RENOVATION TO
**EFFINGHAM COUNTY
ADMINISTRATION BUILDING**
SPRINGFIELD, GEORGIA

**SOUTH BUILDING
REFLECTED CEILING
PLAN (FIRST FLOOR)**

REVISIONS

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RELEASED FOR
CONSTRUCTION
JOB NO: 19.055
ISSUE DATE: 08/14/2020
DRAWN: JLE

A1.4

REFLECTED CEILING PLAN LEGEND:

- 2x2 ACOUSTICAL CEILING TILE, CEILING HEIGHTS ARE TO MATCH EXISTING HEIGHTS UNLESS OTHERWISE NOTED
- GYPSUM BOARD CEILINGS, CEILING HEIGHTS ARE TO MATCH EXISTING HEIGHTS UNLESS OTHERWISE NOTED
- HATCHED AREA DENOTES EXISTING CEILING/ LIGHTING TO REMAIN
- EXHAUST FAN
- HVAC SUPPLY
- HVAC RETURN
- 2x2 LIGHT FIXTURE
- 2x4 LIGHT FIXTURE
- EXIT SIGNAGE
- SURFACE (WALL) MOUNTED LIGHT FIXTURE
- NEW RECESSED LIGHT FIXTURE
- UTILITY LIGHT

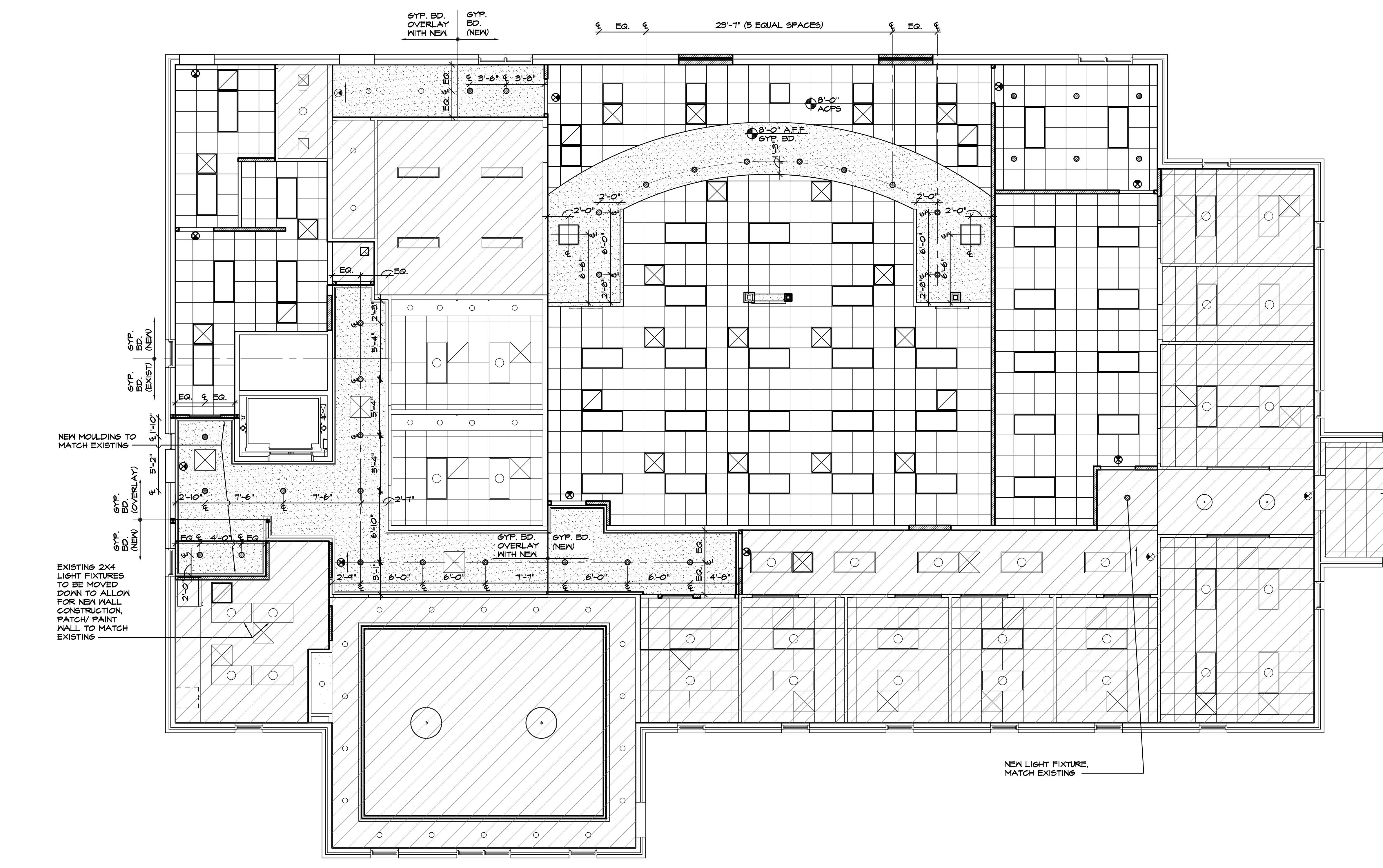
CEILING NOTE:

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION IN REGARDS TO REFLECTED CEILING PLAN.
2. ALL CEILING HEIGHTS TO BE 9'-6" A.F.F UNLESS OTHERWISE NOTED

2
A1.4 **LEGEND AND NOTES**
SCALE: N.T.S.

JOB NORTH

3
A1.4 **KEY PLAN**
SCALE: N.T.S.



1
A1.4 **REFLECTED CEILING PLAN - FIRST FLOOR (SOUTH BUILDING)**
SCALE: 3/16" = 1'-0"



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ALTERATIONS / RENOVATION TO
EFFINGHAM COUNTY
ADMINISTRATION BUILDING
 SPRINGFIELD, GEORGIA

SOUTH BUILDING
 REFLECTED CEILING
 PLAN (SECOND FLOOR)

REVISIONS

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 ISSUE DATE: 08/14/2020
 DRAWN: JLE

A1.5

REFLECTED CEILING PLAN LEGEND:

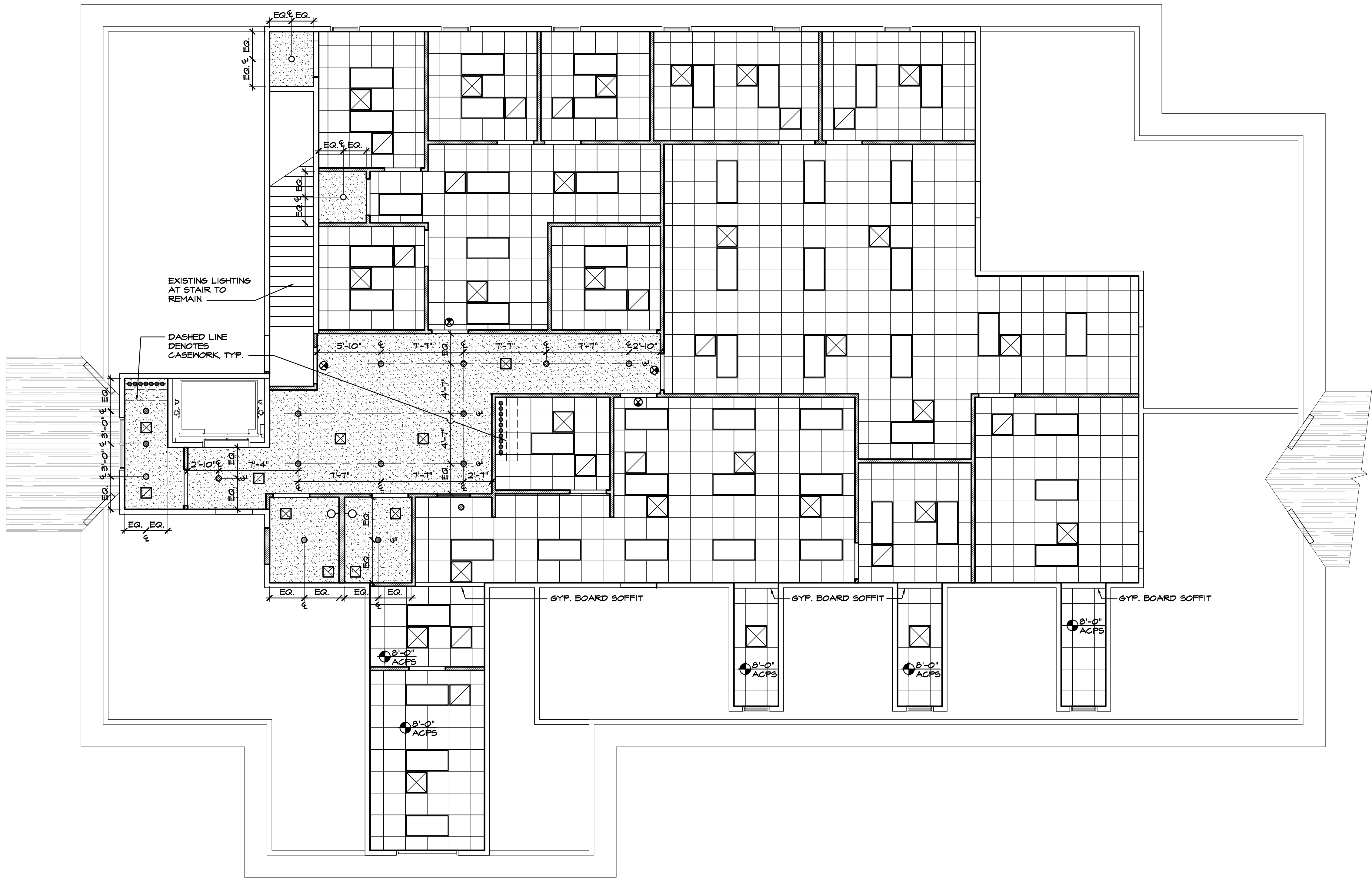
	2x2 ACOUSTICAL CEILING TILE, CEILING IS TO MATCH EXISTING HEIGHTS UNLESS OTHERWISE NOTED
	GYPSUM BOARD CEILING, CEILING IS TO MATCH EXISTING HEIGHTS UNLESS OTHERWISE NOTED
	EXHAUST FAN
	HVAC SUPPLY
	HVAC RETURN
	2x4 LIGHT FIXTURE
	SURFACE MOUNTED LIGHT FIXTURE
	RECESSED LIGHT FIXTURE
	EXIT SIGNAGE
	UNDER COUNTER LED STRIP LIGHT

CEILING NOTE:
 1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION IN REGARDS TO REFLECTED CEILING PLAN.
 2. ALL CEILING HEIGHTS TO BE 9'-6" A.F.F. UNLESS OTHERWISE NOTED

2
A1.5 LEGEND AND NOTES
 SCALE: N.T.S.

JOB NORTH

3
A1.5 KEY PLAN
 SCALE: N.T.S.



1
A1.5 REFLECTED CEILING PLAN - SECOND FLOOR (SOUTH BUILDING)
 SCALE: 3/16"=1'-0"



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ALTERATIONS/ RENOVATION TO
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 ADMINISTRATION BUILDING**
 SPRINGFIELD, GEORGIA

NORTH BUILDING
 REFLECTED CEILING
 PLAN (SECOND FLOOR)

REVISIONS

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 ISSUE DATE: 08/14/2020
 DRAWN: JLE

A1.6

REFLECTED CEILING PLAN LEGEND:

- GYPSUM BOARD CEILING. CEILINGS ARE TO MATCH EXISTING HEIGHTS UNLESS OTHERWISE NOTED
- HATCHED AREA DENOTES EXISTING CEILING/ LIGHTING TO REMAIN
- EXHAUST FAN
- HVAC SUPPLY
- HVAC RETURN
- SURFACE MOUNTED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- EXIT SIGNAGE
- UNDER COUNTER LED STRIP LIGHT

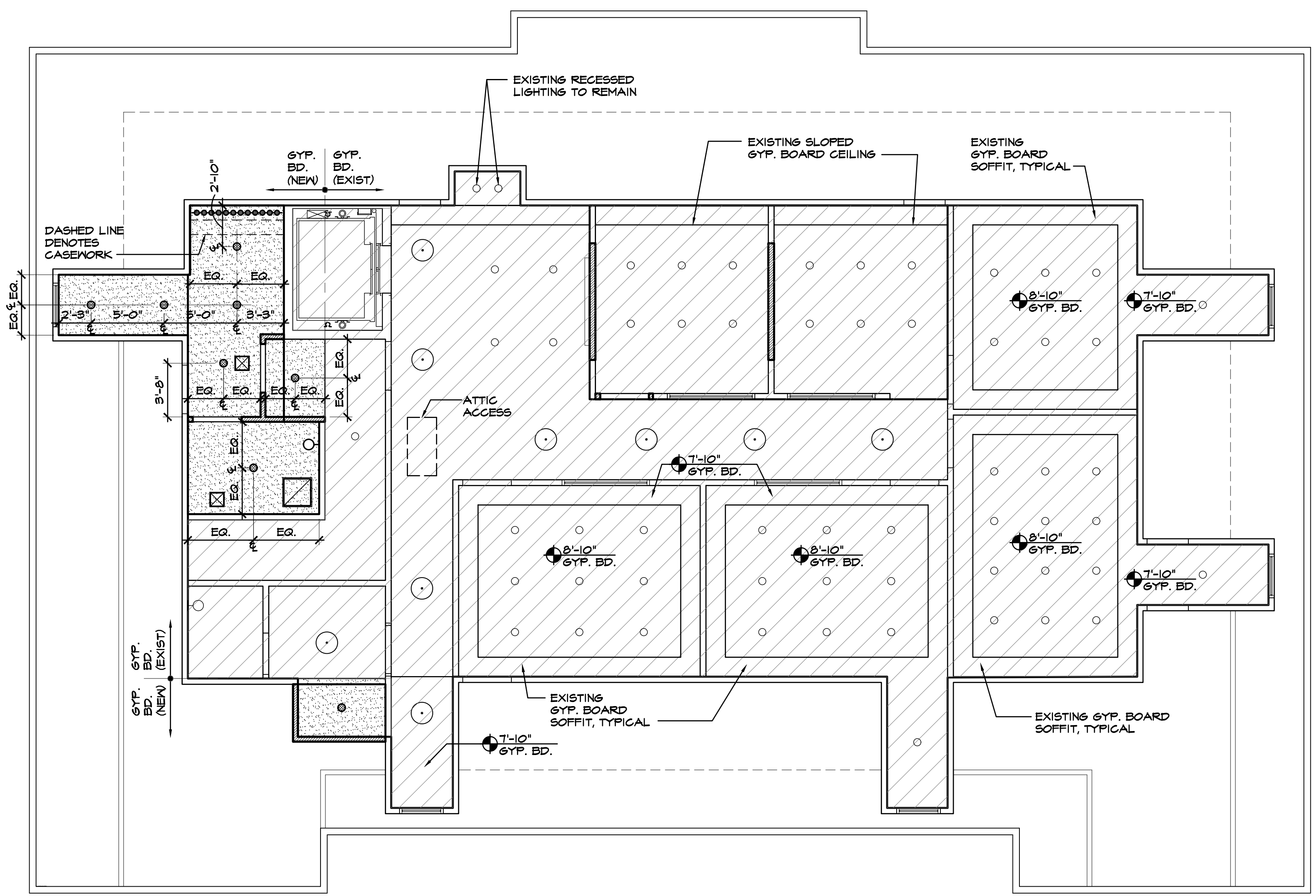
CEILING NOTE:

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION IN REGARDS TO REFLECTED CEILING PLAN.
2. ALL CEILING HEIGHTS TO BE 9'-6" A.F.F UNLESS OTHERWISE NOTED

2
 A1.6 **LEGEND AND NOTES**
 SCALE: N.T.S.

JOB NORTH

3
 A1.6 **KEY PLAN**
 SCALE: N.T.S.



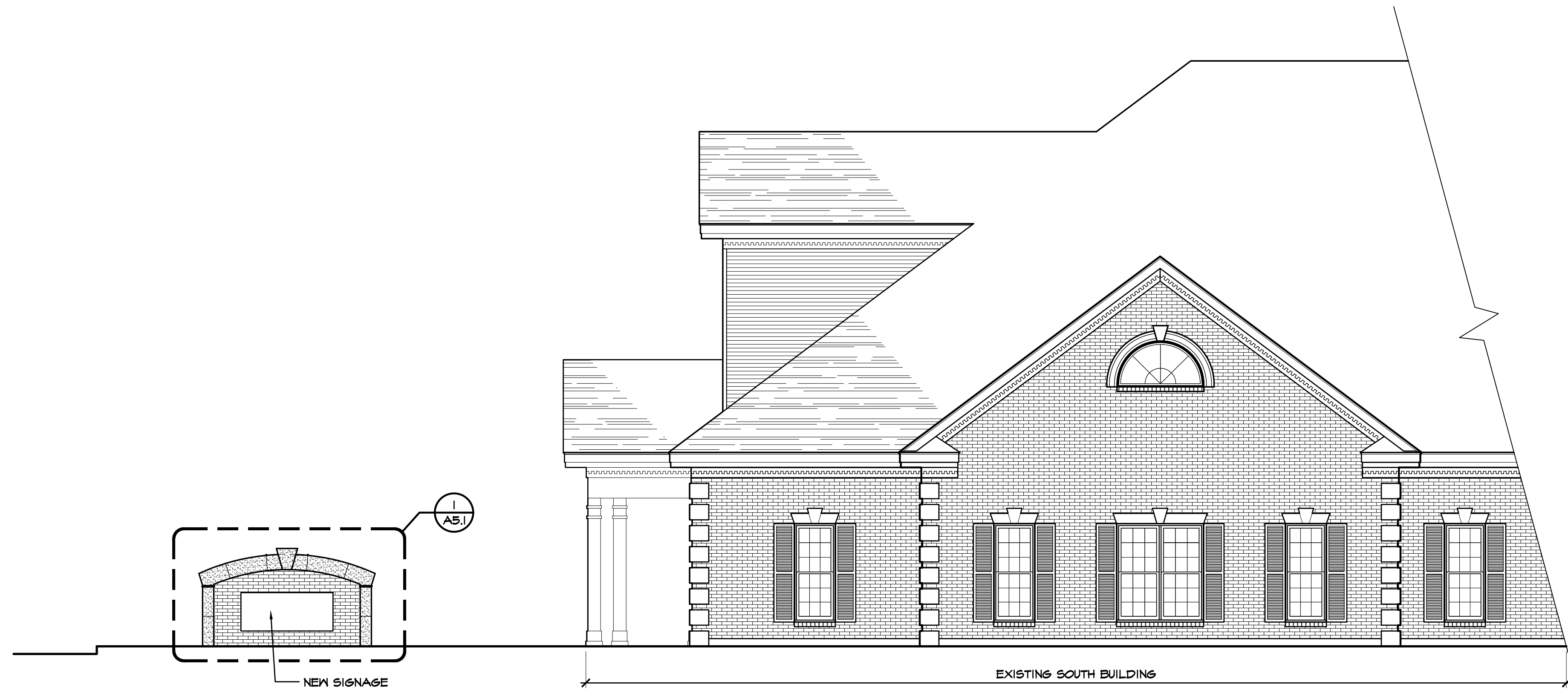
1
 A1.6 **REFLECTED CEILING PLAN - SECOND FLOOR (NORTH BUILDING)**
 SCALE: 3/16"=1'-0"

DOOR SYMBOL		DOOR				FRAME			LOCKSET		FINISH		FIRE RATING	REMARKS		
DOOR MARK	DOOR SPACE	WIDTH	HEIGHT	THICKNESS	MATERIAL	TYPE	MATERIAL	JAMB	HEAD	SILL	LOCK	KEYSIDE			DOOR	FRAME
SOUTH BUILDING - FIRST FLOOR																
104	104	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	106	PT	PT	20-MIN.	-
106	106	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	106	PT	PT	20-MIN.	-
118	114	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	114	PT	PT	20-MIN.	-
119A	118	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	118	PT	PT	-	-
119B	120	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	120	PT	PT	-	-
120	106	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	106	PT	PT	20-MIN.	-
122	101	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	101	PT	PT	20-MIN.	-
123	123	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	120	PT	PT	20-MIN.	-
125	125	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	125	PT	PT	-	-
126	126	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	101	PT	PT	20-MIN.	-
SOUTH BUILDING - SECOND FLOOR																
201	201	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	204	PT	PT	-	-
202	202	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	204	PT	PT	-	-
203	203	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	204	PT	PT	-	-
204A	204	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	204	PT	PT	20-MIN.	-
204B	204	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	204	PT	PT	-	-
204C	-	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	204	PT	PT	-	NEW DOOR IN EXISTING OPENING
207	207	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	206	PT	PT	-	-
208	204	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	204	PT	PT	-	-
209A	204	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	216	PT	PT	-	-
209B	-	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	204	PT	PT	-	NEW DOOR IN EXISTING OPENING
210	210	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	219	PT	PT	-	-
211A	211	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	219	PT	PT	-	-
211B	-	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	216	PT	PT	-	NEW DOOR IN EXISTING OPENING
211C	-	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	216	PT	PT	-	DUTCH DOOR W/ SERVICE WINDOW
213B	-	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	219	PT	PT	-	NEW DOOR IN EXISTING OPENING
213C	-	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	219	PT	PT	-	-
214	214	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	219	PT	PT	-	-
215	215	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	219	PT	PT	-	-
214	214	3'-0"	7'-0"	1 3/4"	MD	2	MD	4/A2.1	5/A2.1	-	-	204	PT	PT	-	-
220	220	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	214	PT	PT	-	-
221	214	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	214	PT	PT	-	-
222	222	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	214	PT	PT	-	-
223	222	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	222	PT	PT	-	-
224	224	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	217	PT	PT	-	-
225	225	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	217	PT	PT	-	-
NORTH BUILDING - SECOND FLOOR																
307	315	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	307	PT	PT	-	-
304	304	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	310	PT	PT	-	-
313	314	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	314	PT	PT	-	-
314	312	3'-0"	7'-0"	1 3/4"	MD	I	MD	4/A2.1	5/A2.1	-	-	312	PT	PT	20-MIN.	-

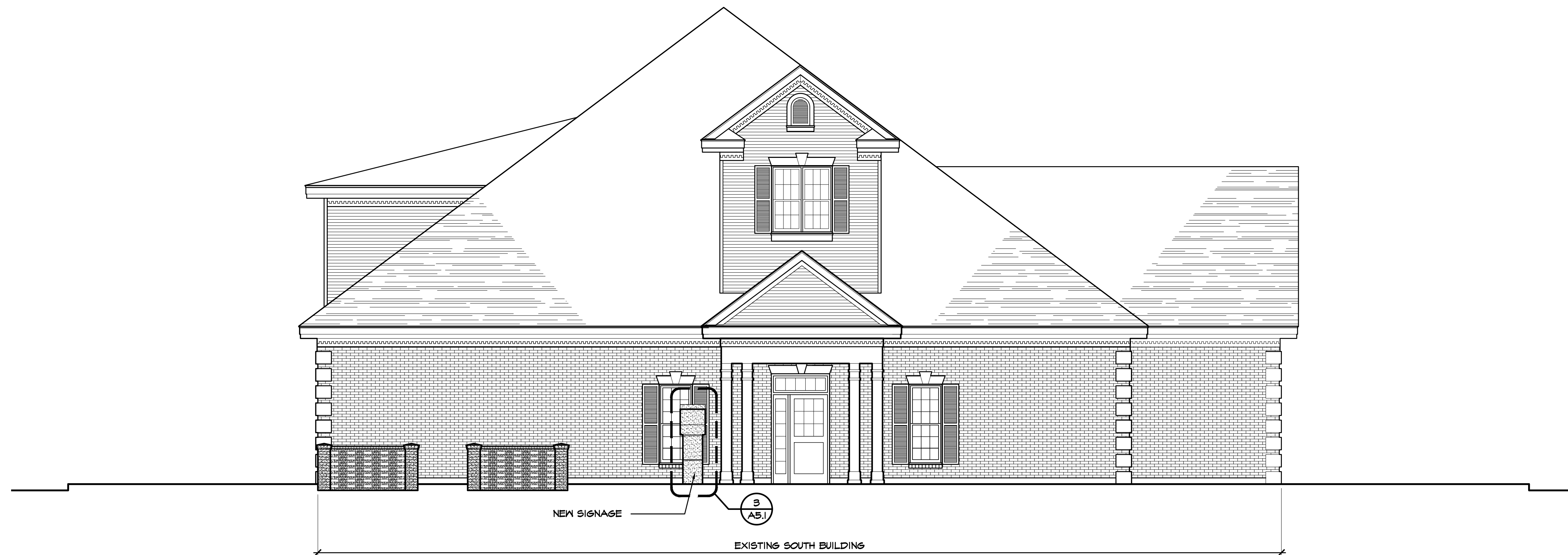
NO.	SPACE NAME	FLOOR		BASE		WALLS				TRIM		CASEWORK		CEILING			REMARKS					
		MAT.	FIN.	MAT.	FIN.	NORTH MAT.	NORTH FIN.	EAST MAT.	EAST FIN.	SOUTH MAT.	SOUTH FIN.	WEST MAT.	WEST FIN.	MAT.	FIN.	MAT.		FIN.	HEIGHT	MAT.	FIN.	
SOUTH BUILDING - FIRST FLOOR																						
101	LOBBY	CT	-	MD	-	-	-	GYP	PT	-	-	GYP	PT	MD	PT	-	-	9'-6"	GYP	PT	-	
102	WOMEN'S RESTRM.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
103	MEN'S RESTRM.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
104	BREAK ROOM	-	-	-	-	GYP	PT	-	-	-	-	GYP	PT	-	-	-	-	-	-	-	-	-
105	BOARD ROOM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
106	HALL	CT	-	MD	-	GYP	PT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
107	HALL	-	-	-	-	-	-	GYP	PT	-	-	-	-	-	-	-	-	-	-	-	-	-
108	RECEPTION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
109	OFFICE ADMIN.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
110	ZONING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
111	PLANNING	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
112	CHIEF BLDG. INSP.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
113	DEV. DIRECTOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
114	HALL	-	-	-	-	-	-	-	-	GYP	PT	GYP	PT	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
115	PURCHASING (FIN)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
116	COPY/IT ROOM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
117	OFFICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
118	CODE ENFORCE.	-	-	-	-	-	-	-	-	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	ACPS	-	-	-
119	CONFERENCE RM.	-	-	-	-	-	-	GYP	PT	GYP	PT	-	-	MD	PT	-	-	9'-6"	ACPS	-	-	-
120	COMM. MEETING RM.	-	-	-	-	-	-	GYP	PT	-	-	-	-	MD	PT	-	-	VARIES 6'/9' ACPS	-	-	-	-
121	FILE ROOM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
122	UTILITY ROOM	CT	-	MD	-	-	-	GYP	PT	-	-	-	-	-	-	-	-	-	-	-	-	-
123	STAIR HALL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
124	ELECT. ROOM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
125	MAIL/PICKUP	LVT	-	MD	-	-	-	GYP	PT	-	-	-	-	MD	PT	-	-	9'-6"	GYP	PT	-	-
126	CLERK	CPT	-	MD	-	-	-	GYP	PT	-	-	-	-	MD	PT	-	-	9'-6"	ACPS	-	-	-
127	ELEV. ROOM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING TO REMAIN
SOUTH BUILDING - SECOND FLOOR																						
201	BEVERAGE CTR.	LVT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	GYP	PT	-	-
202	MEN'S RESTRM.	LVT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	GYP	PT	-	-
203	WOMEN'S RESTRM.	LVT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	GYP	PT	-	-
204	LOBBY	LVT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	GYP	PT	-	-
205	RECEPTION	LVT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	ACPS	-	-	-
206	WORK AREA	LVT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	8'-0"	ACPS	-	-	-
207	FILES	LVT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	8'-0"	ACPS	-	-	-
208	BREAK ROOM	LVT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	ACPS	-	-	-
209	OPEN OFFICE	CPT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	ACPS	-	-	-
210	DIRECTOR	CPT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	ACPS	-	-	-
211	FILES	CPT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	ACPS	-	-	-
212	COPY STATION	CPT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	ACPS	-	-	-
213	OPEN OFFICE	CPT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	ACPS	-	-	-
214	ASST. DIRECTOR	CPT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	ACPS	-	-	-
215	DIRECTOR	CPT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	ACPS	-	-	-
216	HALL	LVT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	ACPS	-	-	-
217	OFFICE	CPT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	ACPS	-	-	-
218	WORK STATION	CPT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	ACPS	-	-	-
219	LOBBY	CPT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	ACPS	-	-	-
220	OFFICE	CPT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	ACPS	-	-	-
221	CLOSET	CPT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	GYP	PT	-	-
222	DIRECTOR	CPT	-	MD	-	-	-	GYP	PT	GYP	PT	GYP	PT	MD	PT	-	-	9'-6"	GYP	PT	-	-
223	ELECT. ROOM	-	-	-	-	-	-	GYP	PT	GYP	PT	GYP	PT	-	-	-	-	9'-6"	GYP	PT	-	-



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2
 A5.1 PARTIAL EAST ELEVATION
 SCALE: 3/16"=1'-0"



1
 A5.1 SOUTH ELEVATION
 SCALE: 3/16"=1'-0"

ALTERATIONS/ RENOVATION TO
 EFFINGHAM COUNTY
 ADMINISTRATION BUILDING
 SPRINGFIELD, GEORGIA

REVISIONS
 SOUTH BUILDING
 EXTERIOR ELEVATIONS

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A3.1



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SPRINGFIELD, GEORGIA

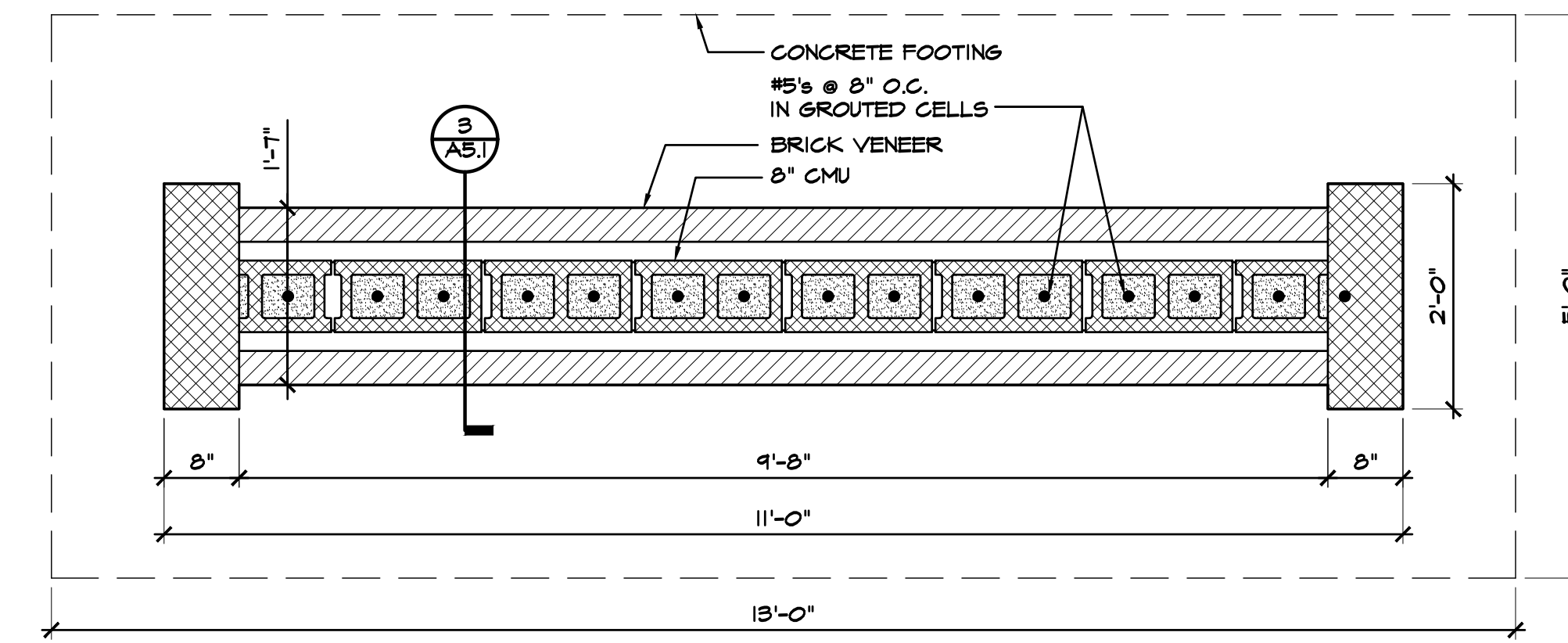
REVISIONS
SOUTH BUILDING
EXTERIOR SIGNAGE

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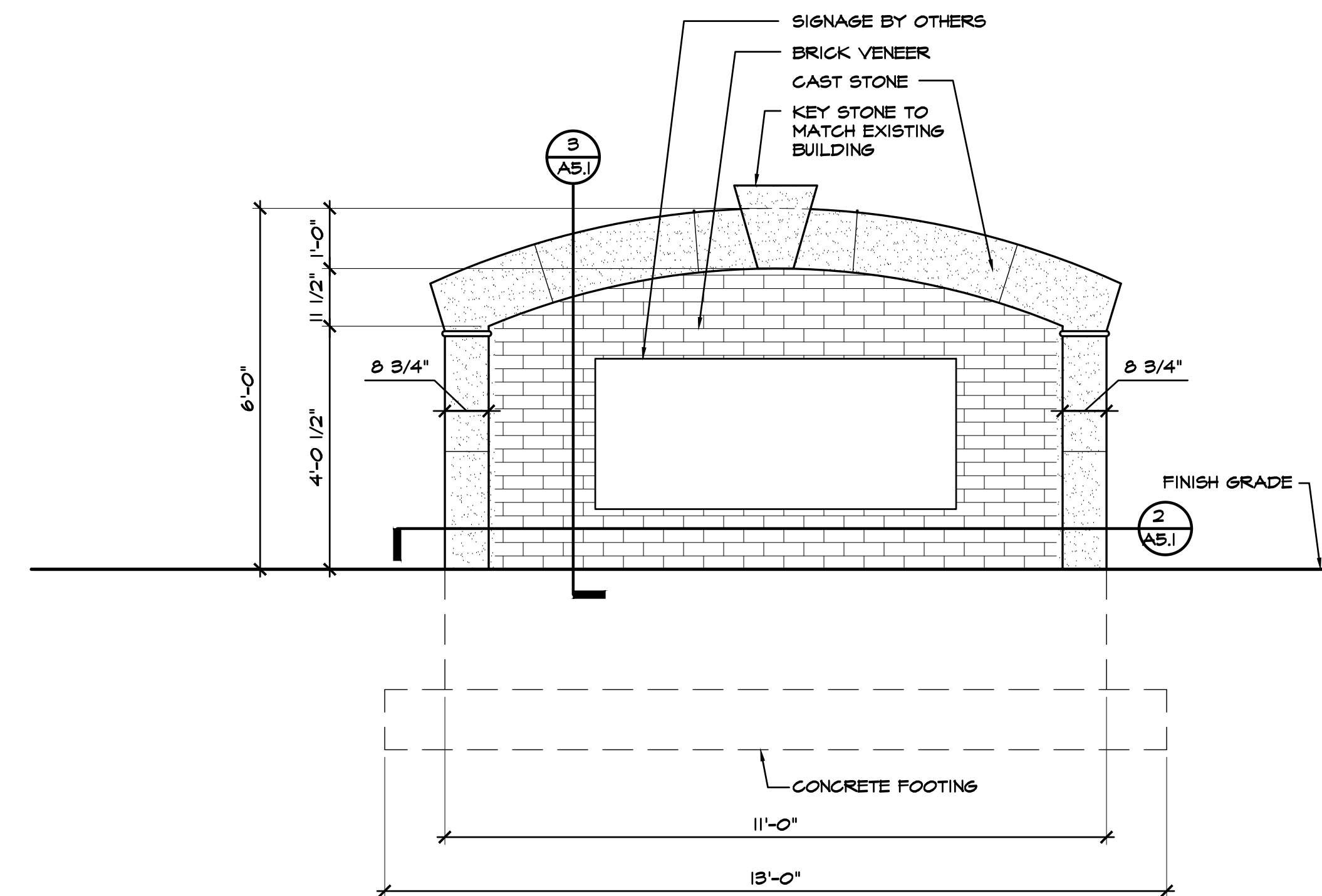


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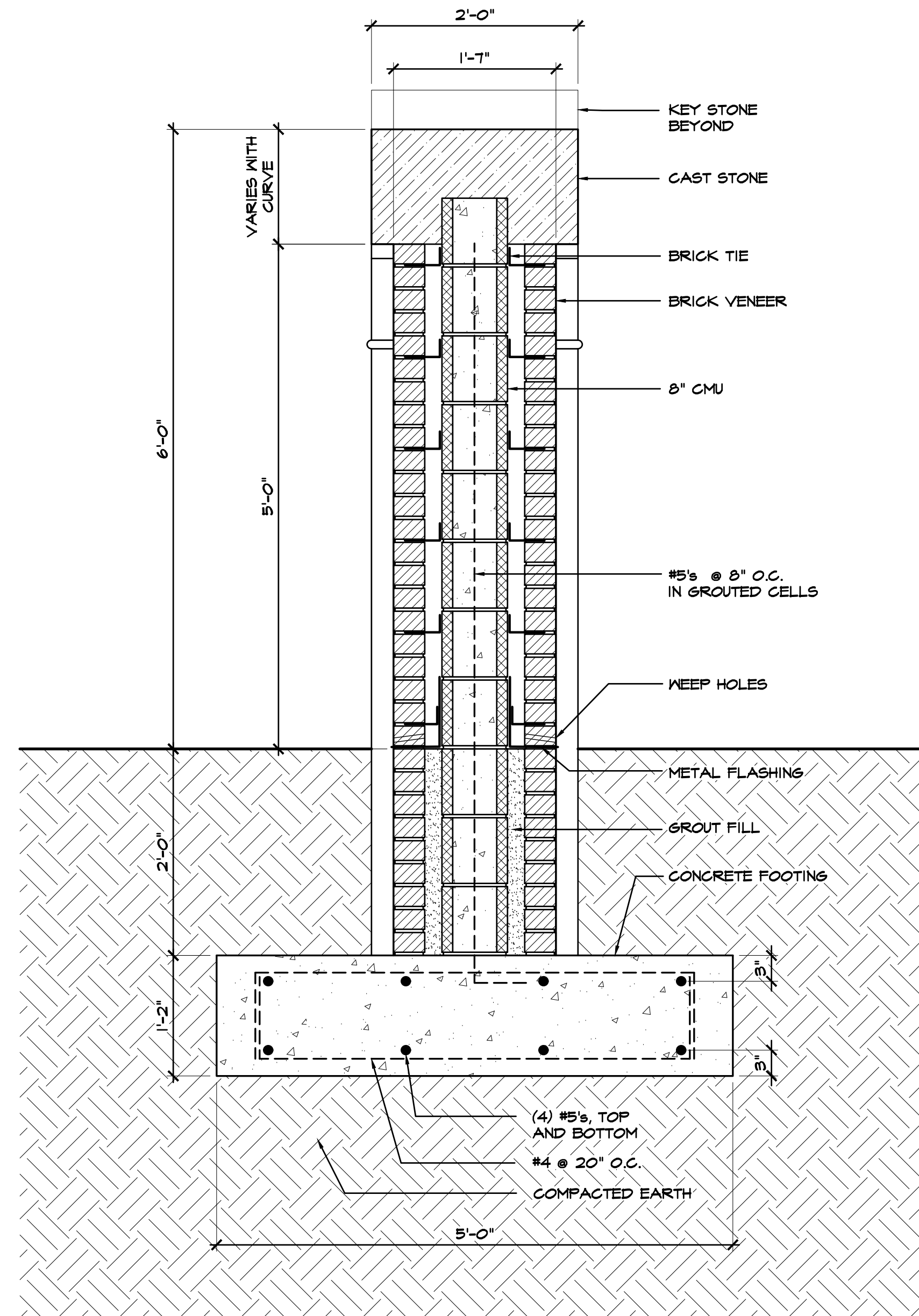
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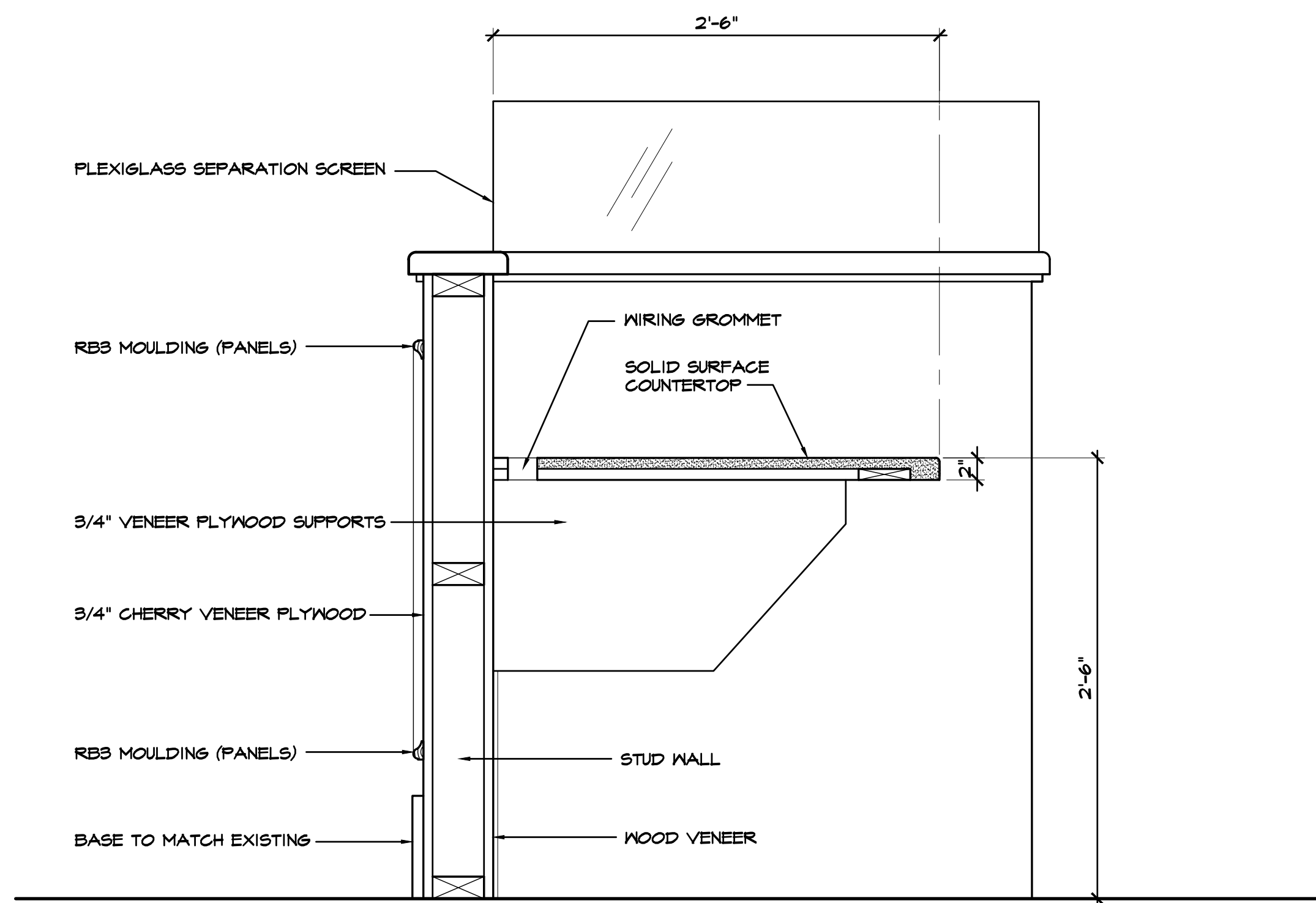
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SCALE: 3/4" = 1'-0"



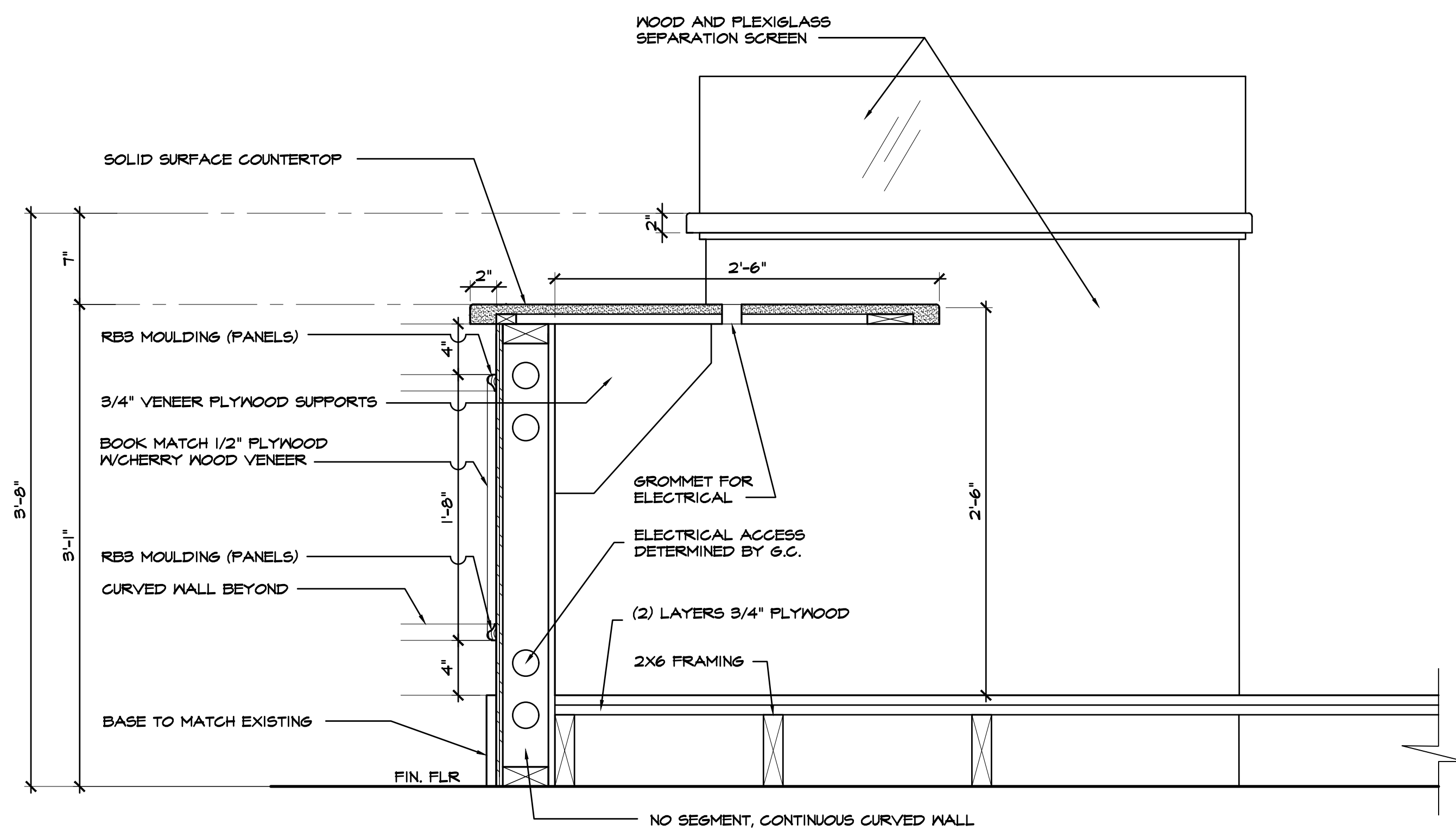
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SCALE: 1/2" = 1'-0"



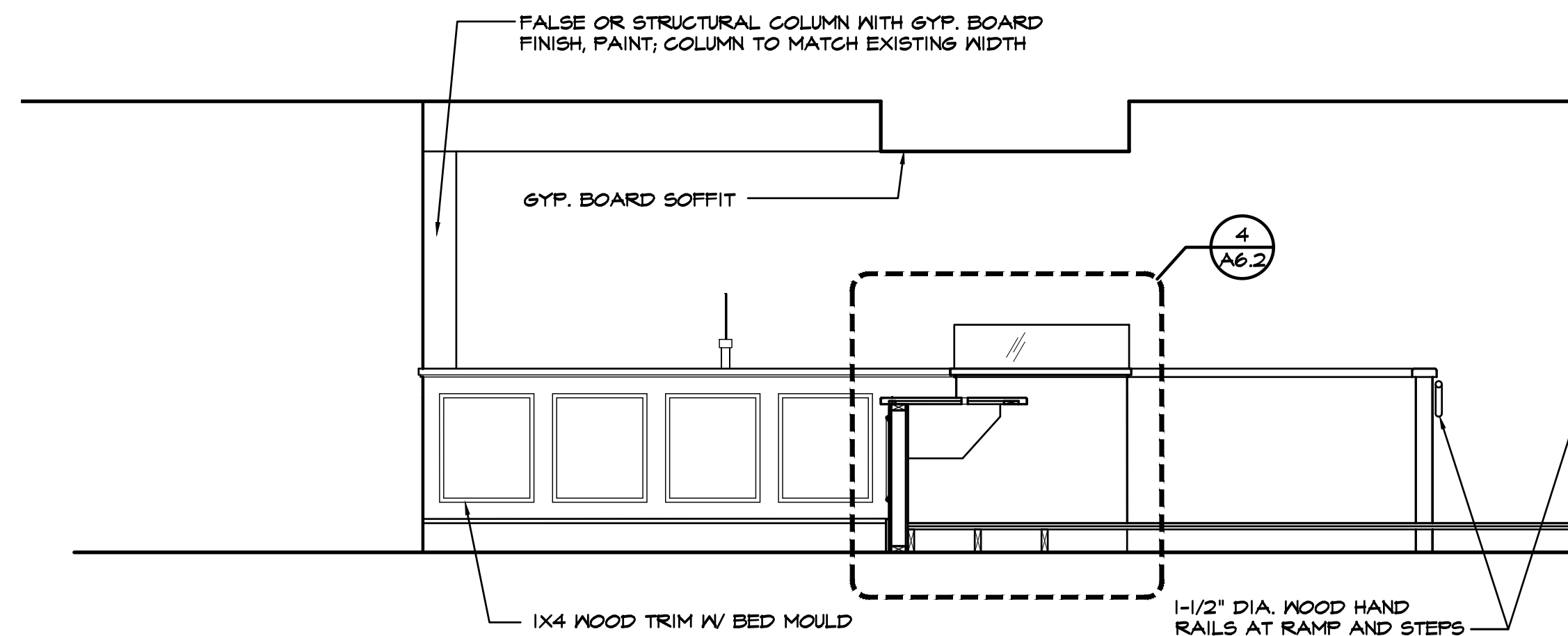
3 SIGN SECTION - SIGNAGE
SCALE: 1" = 1'-0"



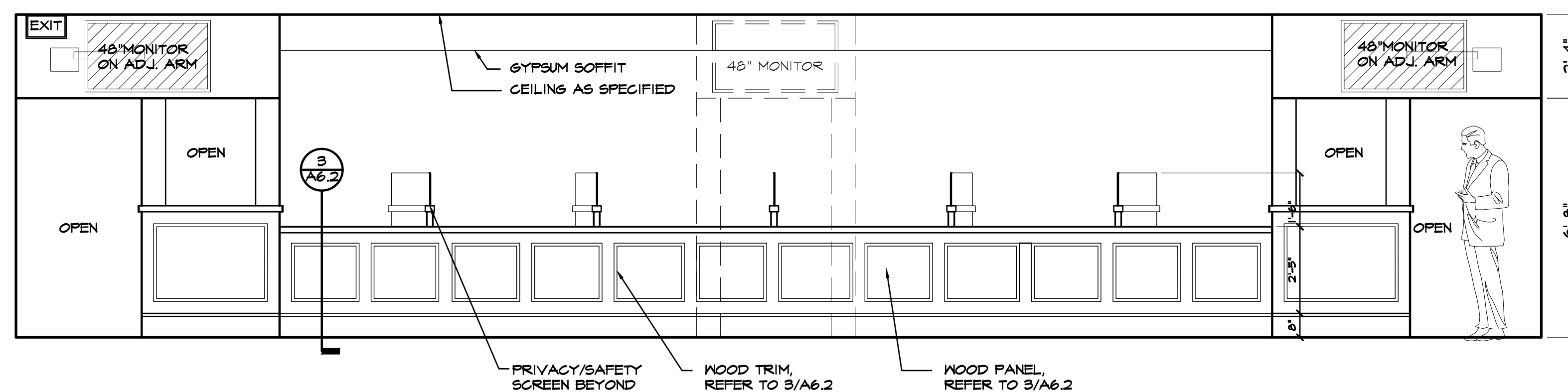
4 SECTION DETAIL
SCALE: 1/2" = 1'-0"



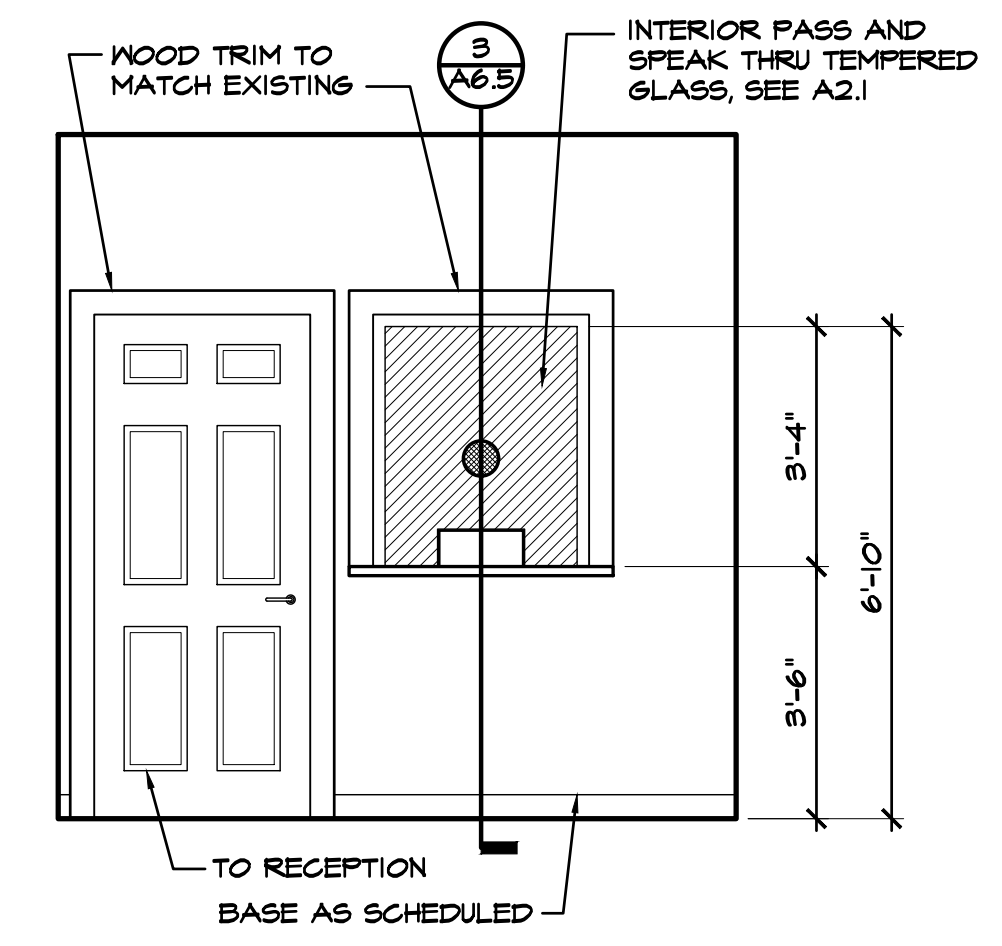
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SCALE: 1/2" = 1'-0"



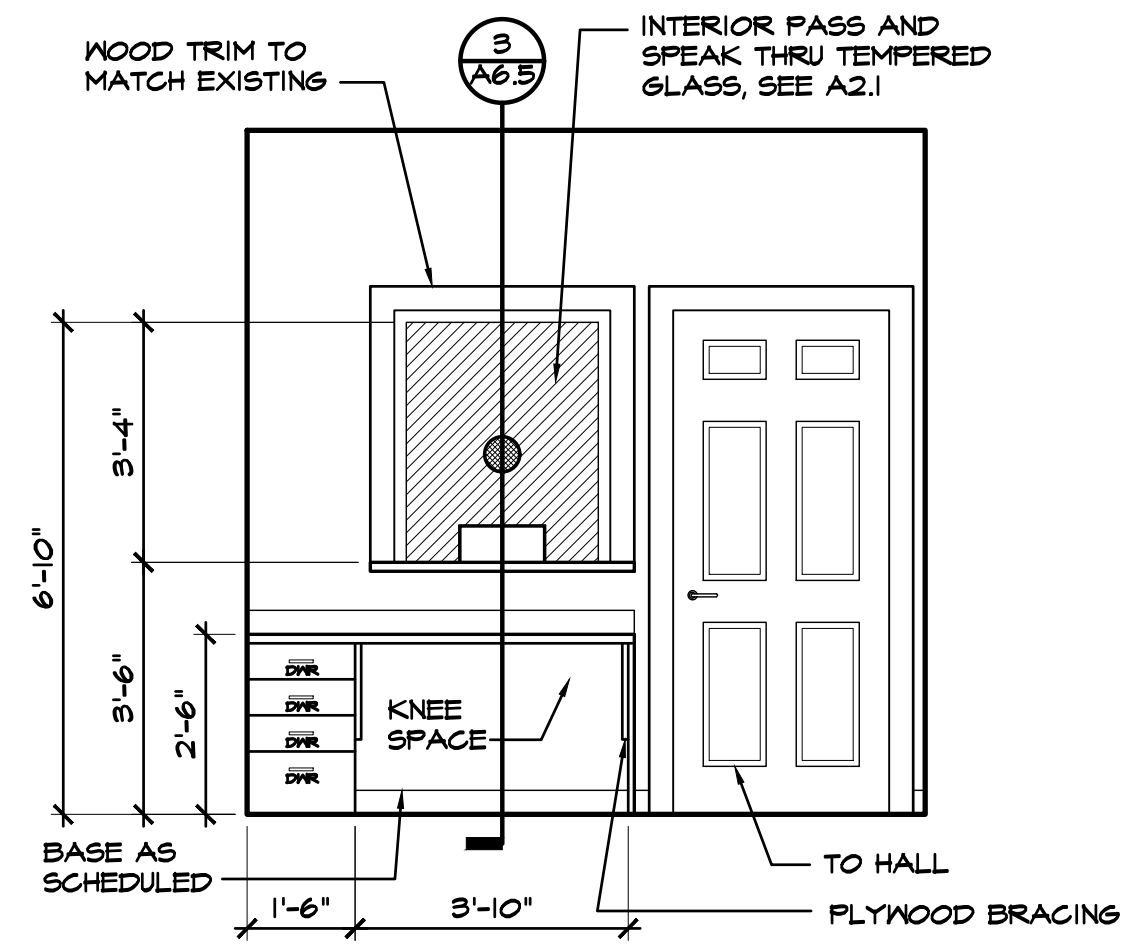
2 INTERIOR ELEVATION - COMMISSION MEETING ROOM (SOUTH BUILDING)
SCALE: 3/8" = 1'-0"



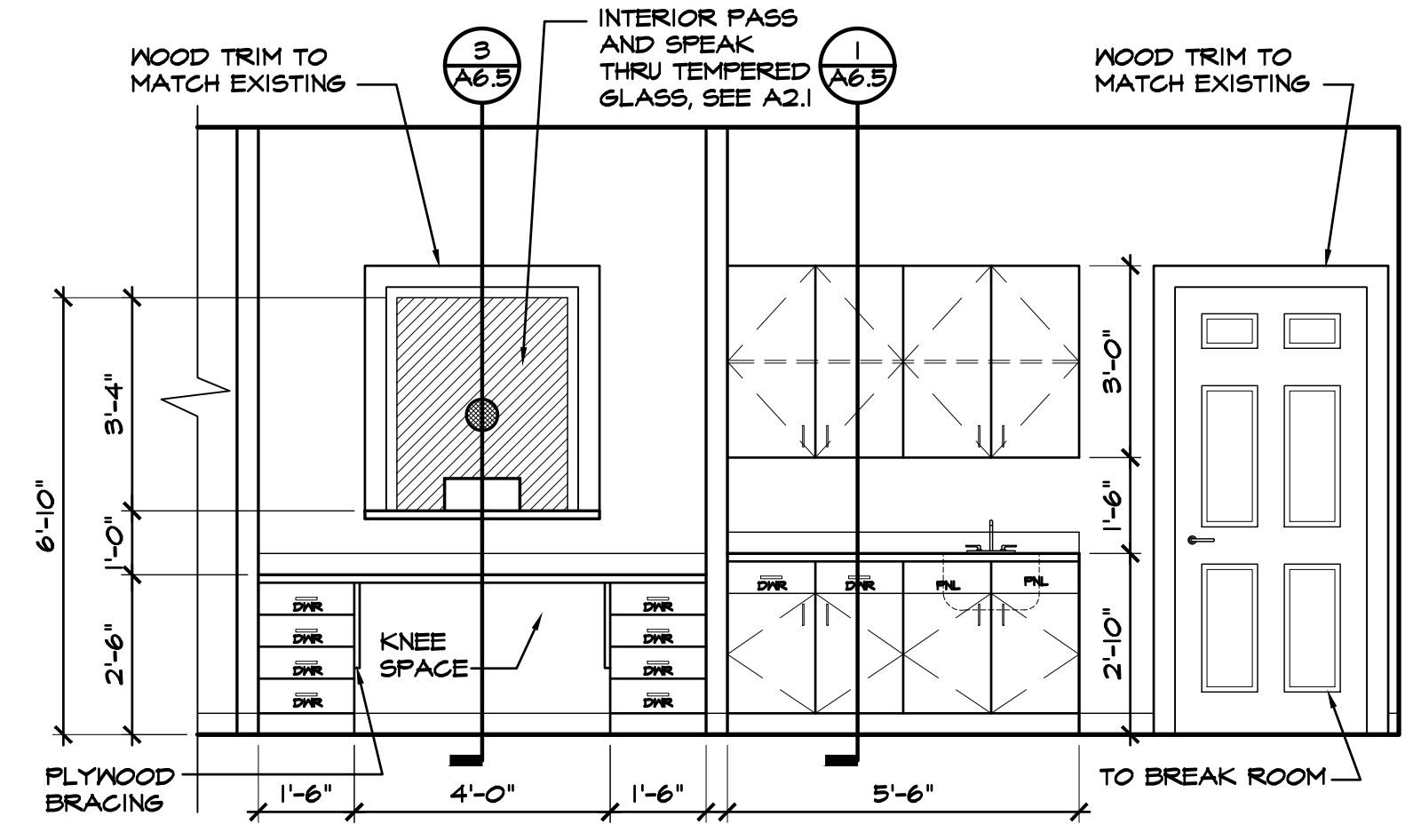
1 INTERIOR ELEVATION (OVERALL) - COMMISSION MEETING ROOM (SOUTH BUILDING)
SCALE: 3/8" = 1'-0"



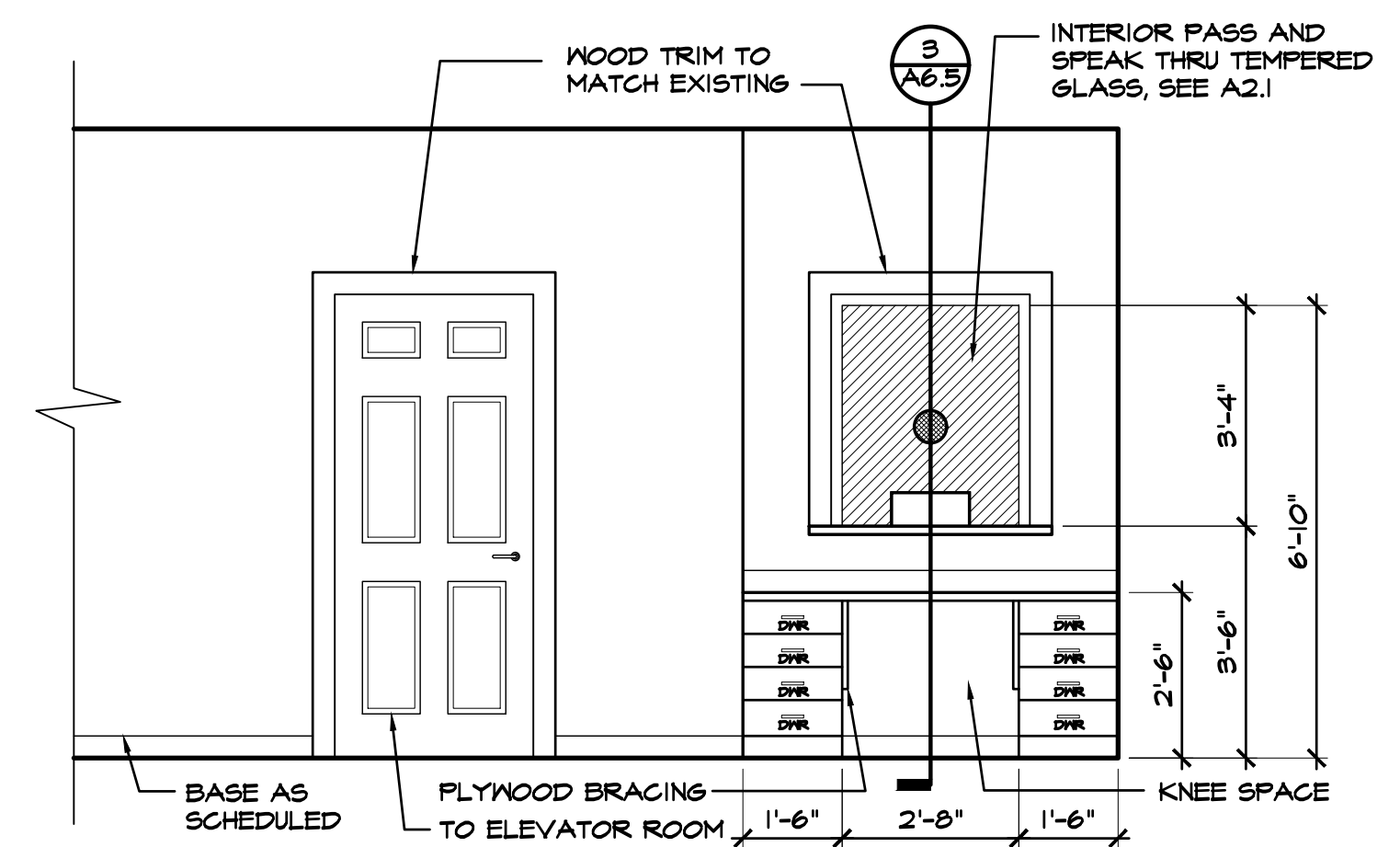
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A6.3 INTERIOR ELEVATION - RECEPTION (SOUTH BUILDING)
SCALE: 3/8" = 1'-0"



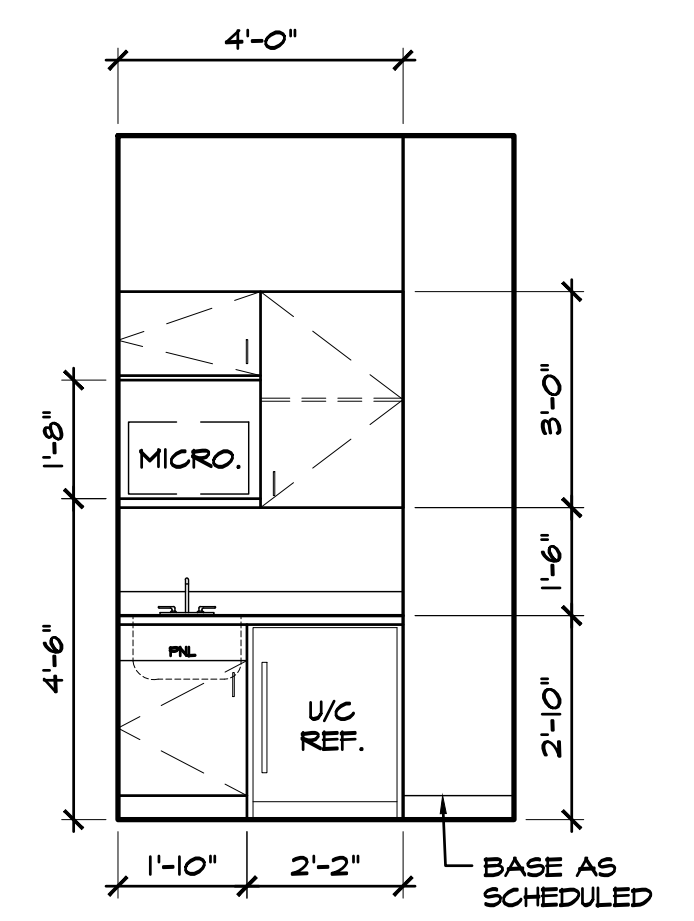
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A6.3 INTERIOR ELEVATION - RECEPTION (SOUTH BUILDING)
SCALE: 3/8" = 1'-0"



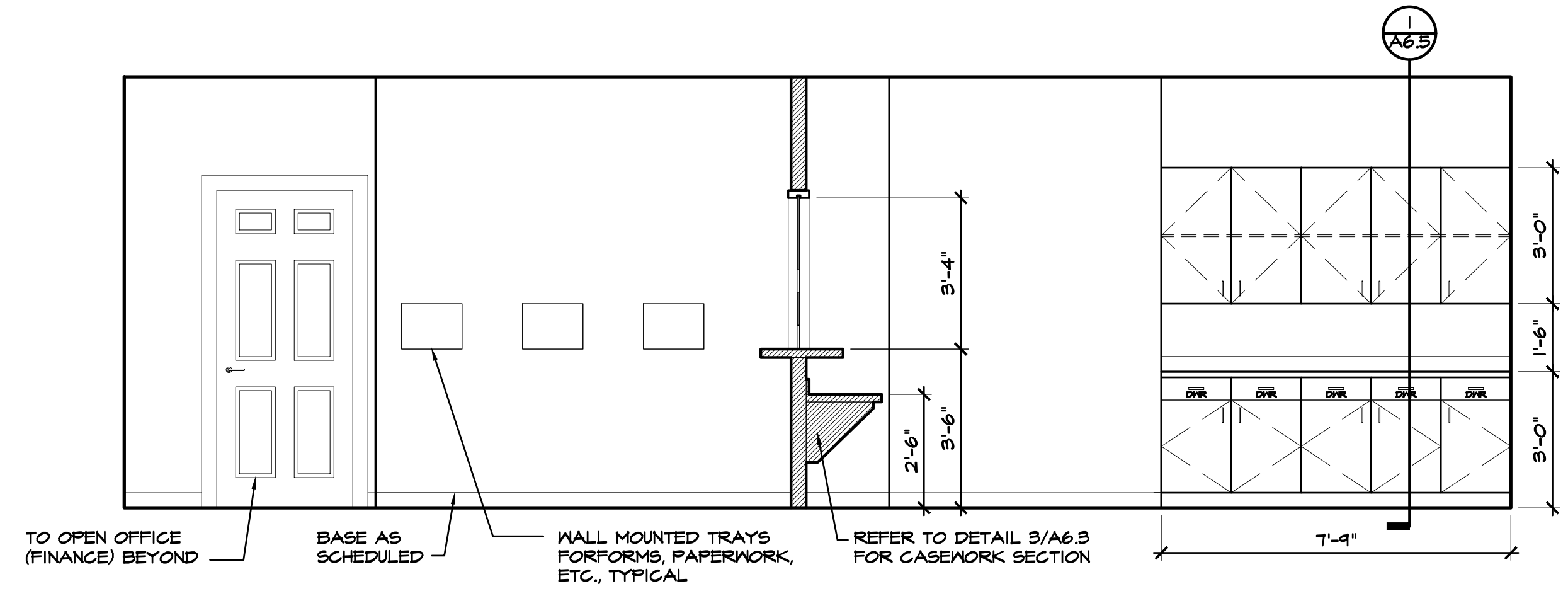
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A6.3 INTERIOR ELEVATION - RECEPTION/ WATER TESTING (SOUTH BUILDING)
SCALE: 3/8" = 1'-0"



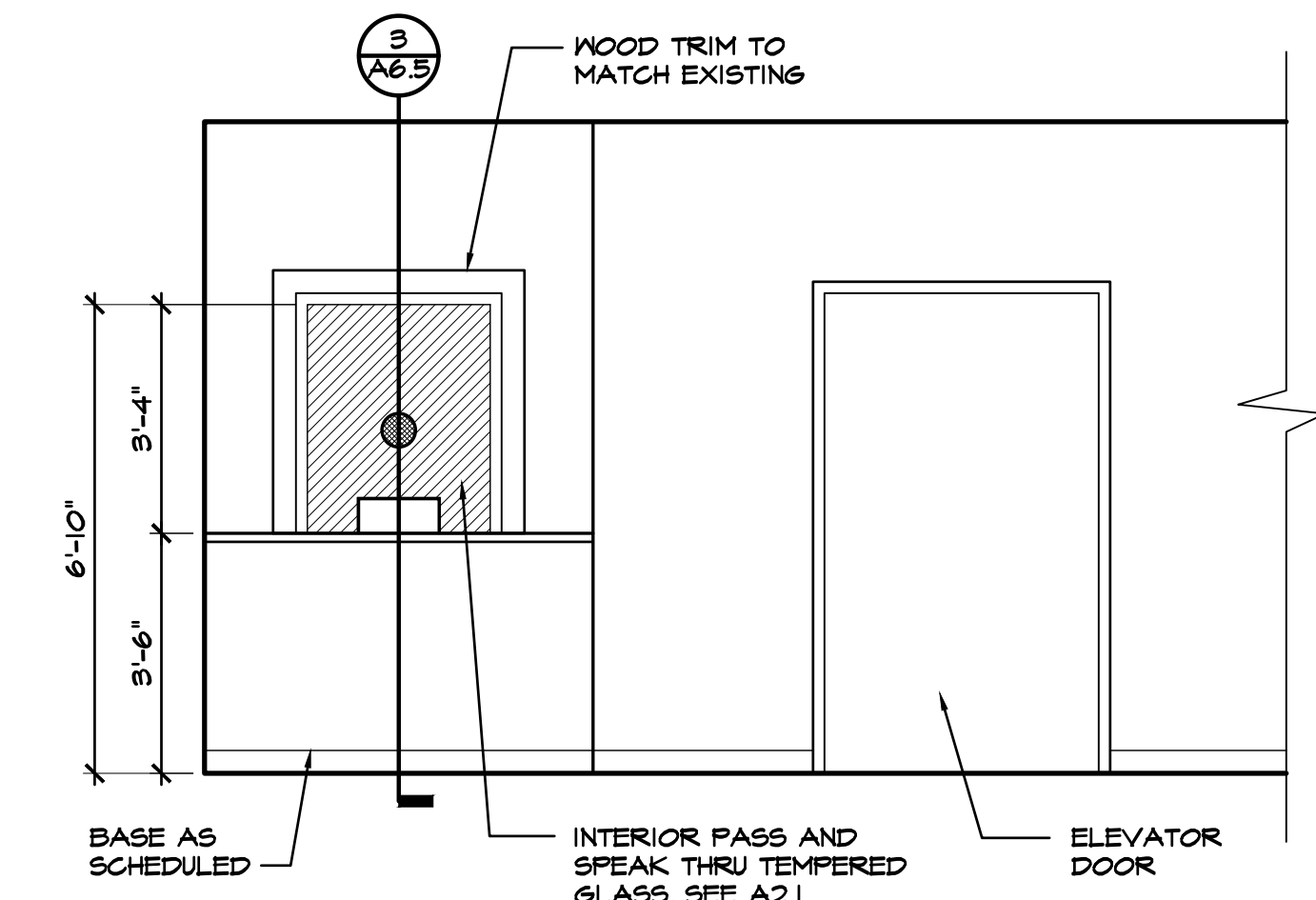
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A6.3 INTERIOR ELEVATION - LOBBY/ CLERK (SOUTH BUILDING)
SCALE: 3/8" = 1'-0"



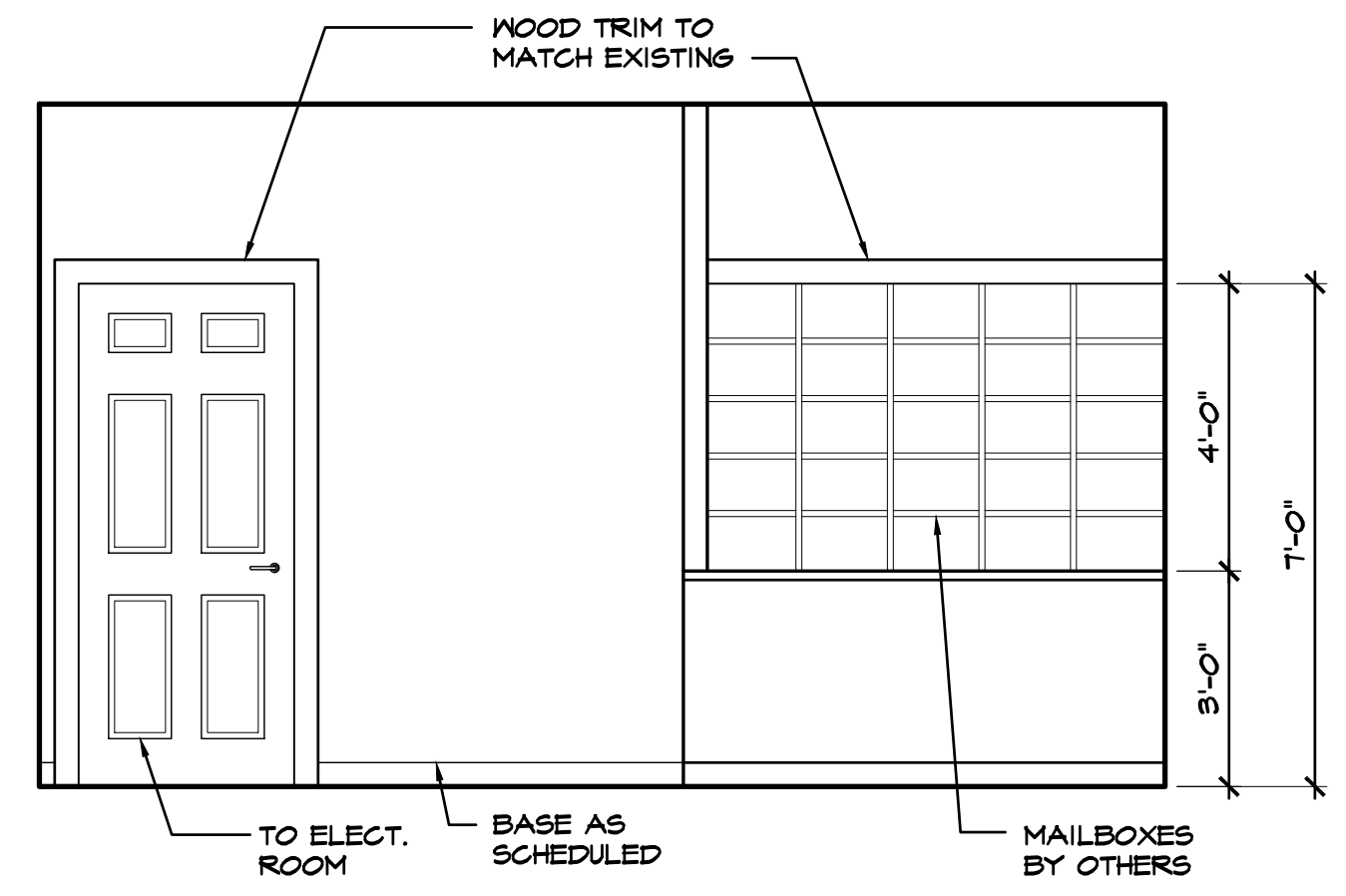
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A6.3 INTERIOR ELEVATION - BEV. CENTER (SOUTH BUILDING)
SCALE: 3/8" = 1'-0"



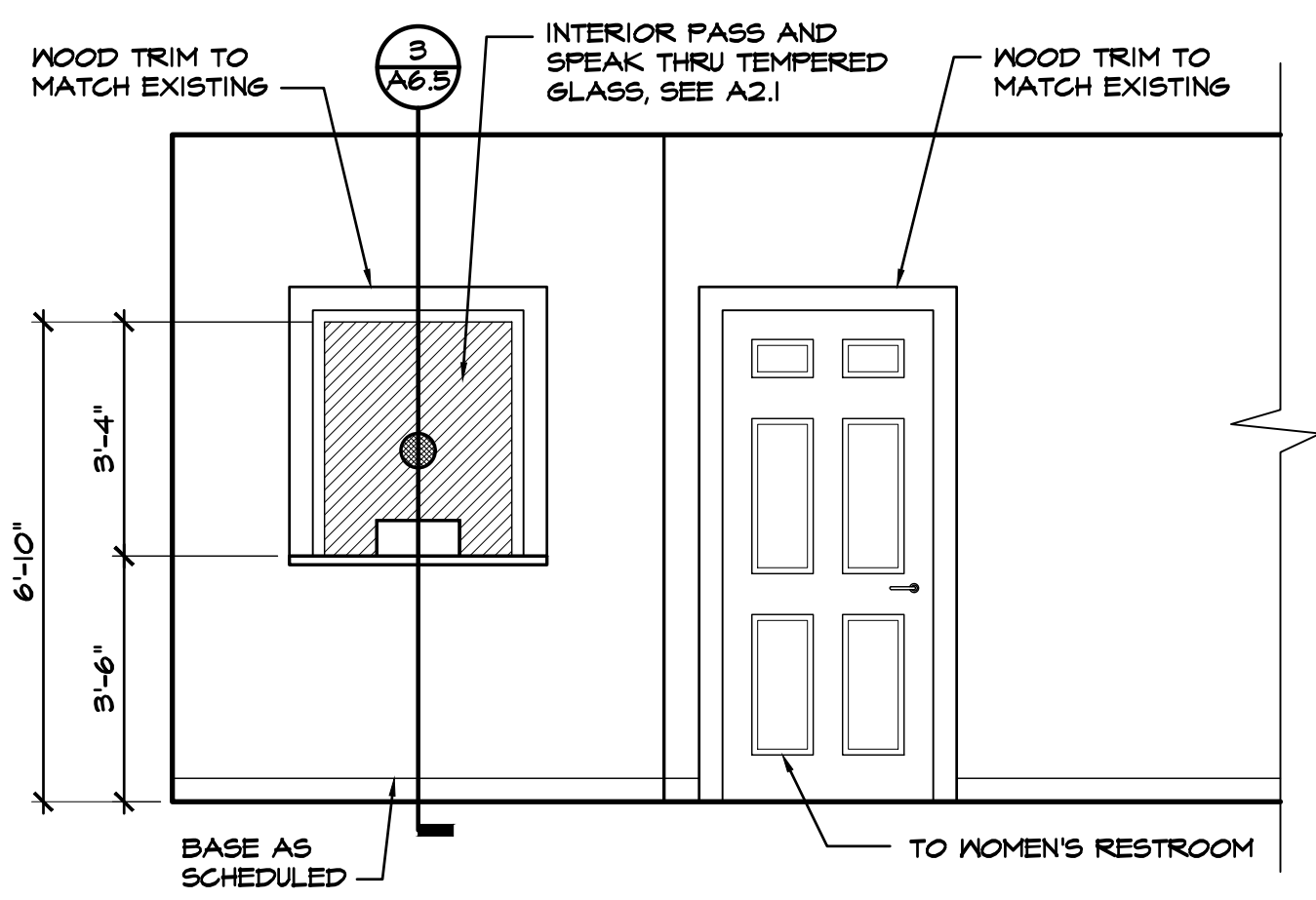
8
A6.3 INTERIOR ELEVATION - RECEPTION/ WORK AREA (SOUTH BUILDING)
SCALE: 3/8" = 1'-0"



1
A6.3 INTERIOR ELEVATION - LOBBY/ CLERK (SOUTH BUILDING)
SCALE: 3/8" = 1'-0"



4
A6.3 INTERIOR ELEVATION - MAIL/ PICKUP (SOUTH BUILDING)
SCALE: 3/8" = 1'-0"



7
A6.3 INTERIOR ELEVATION - LOBBY (SOUTH BUILDING)
SCALE: 3/8" = 1'-0"



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 SPRINGFIELD, GEORGIA

INTERIOR ELEVATIONS:

REVISIONS

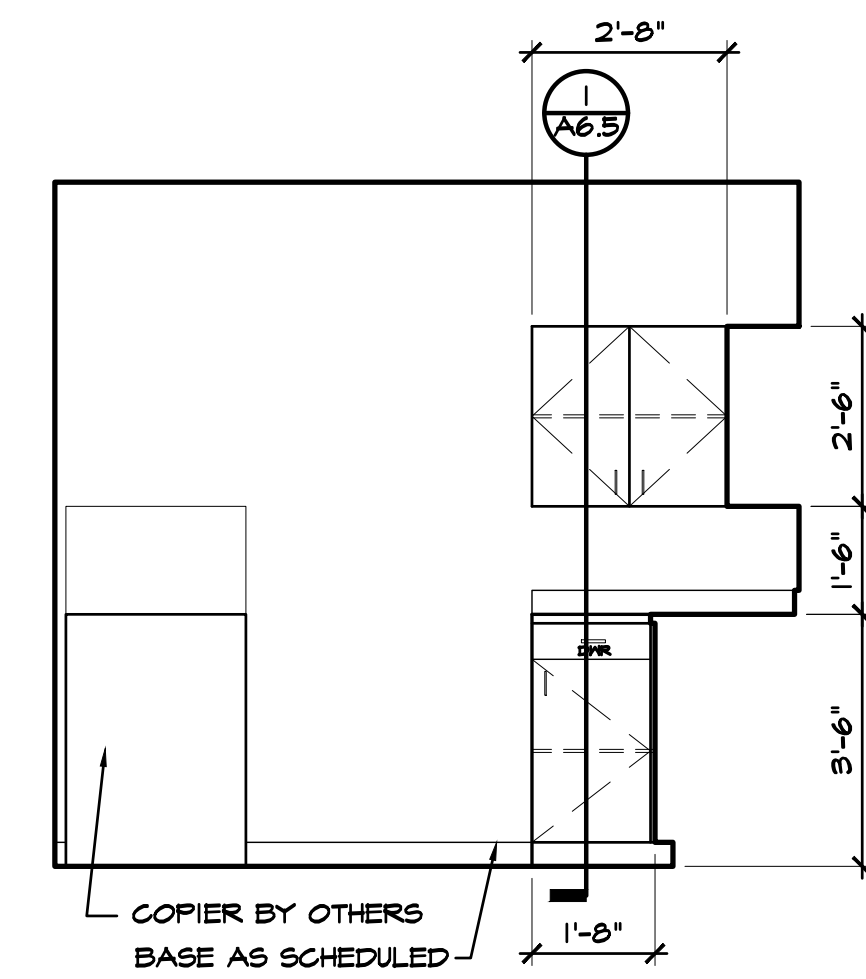
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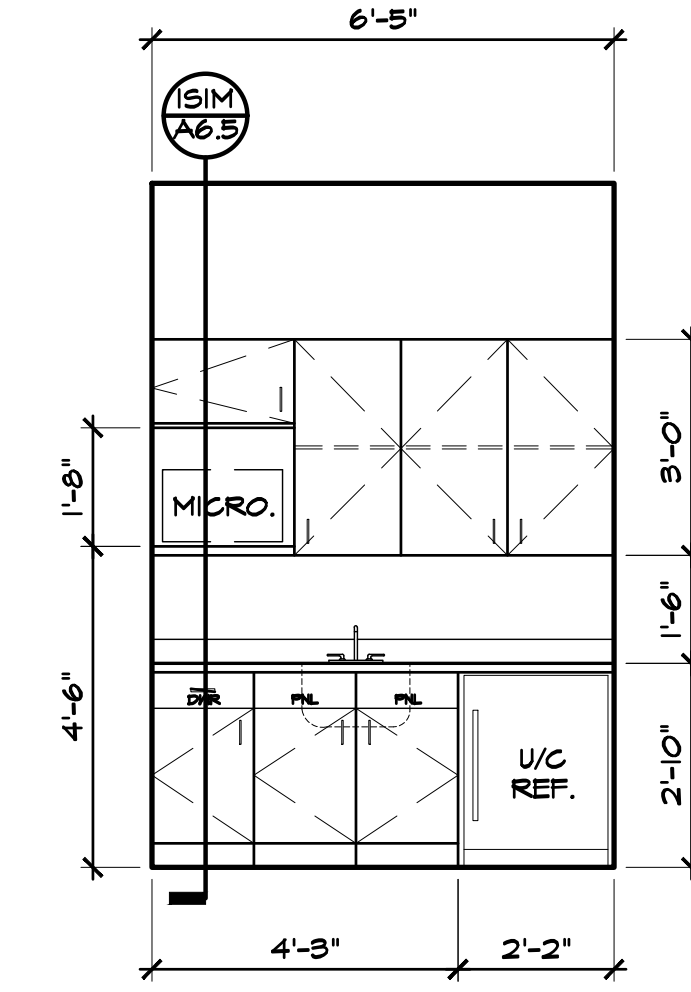
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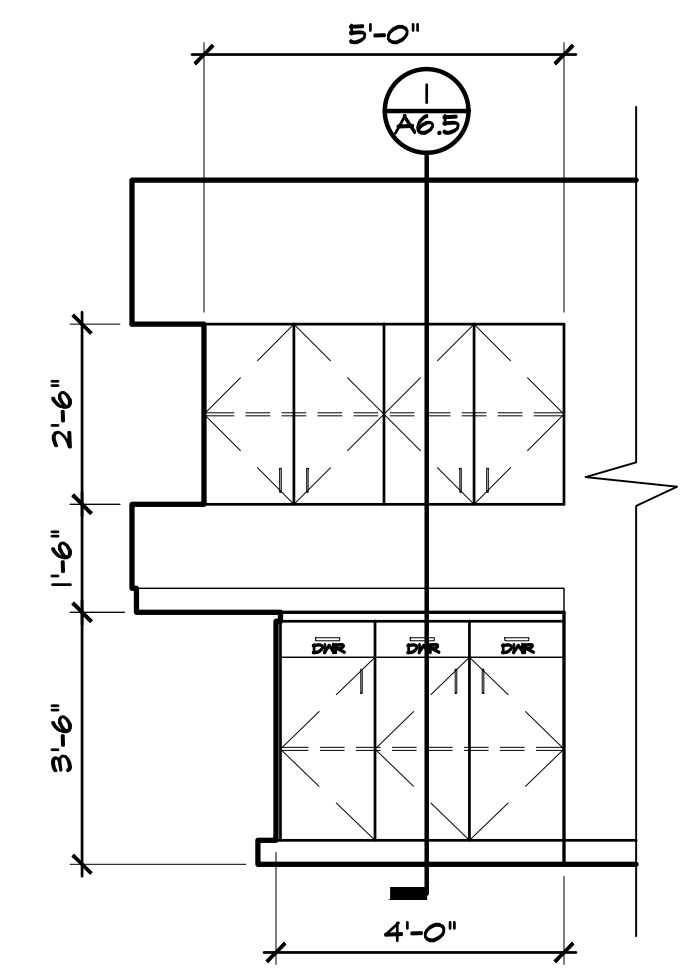
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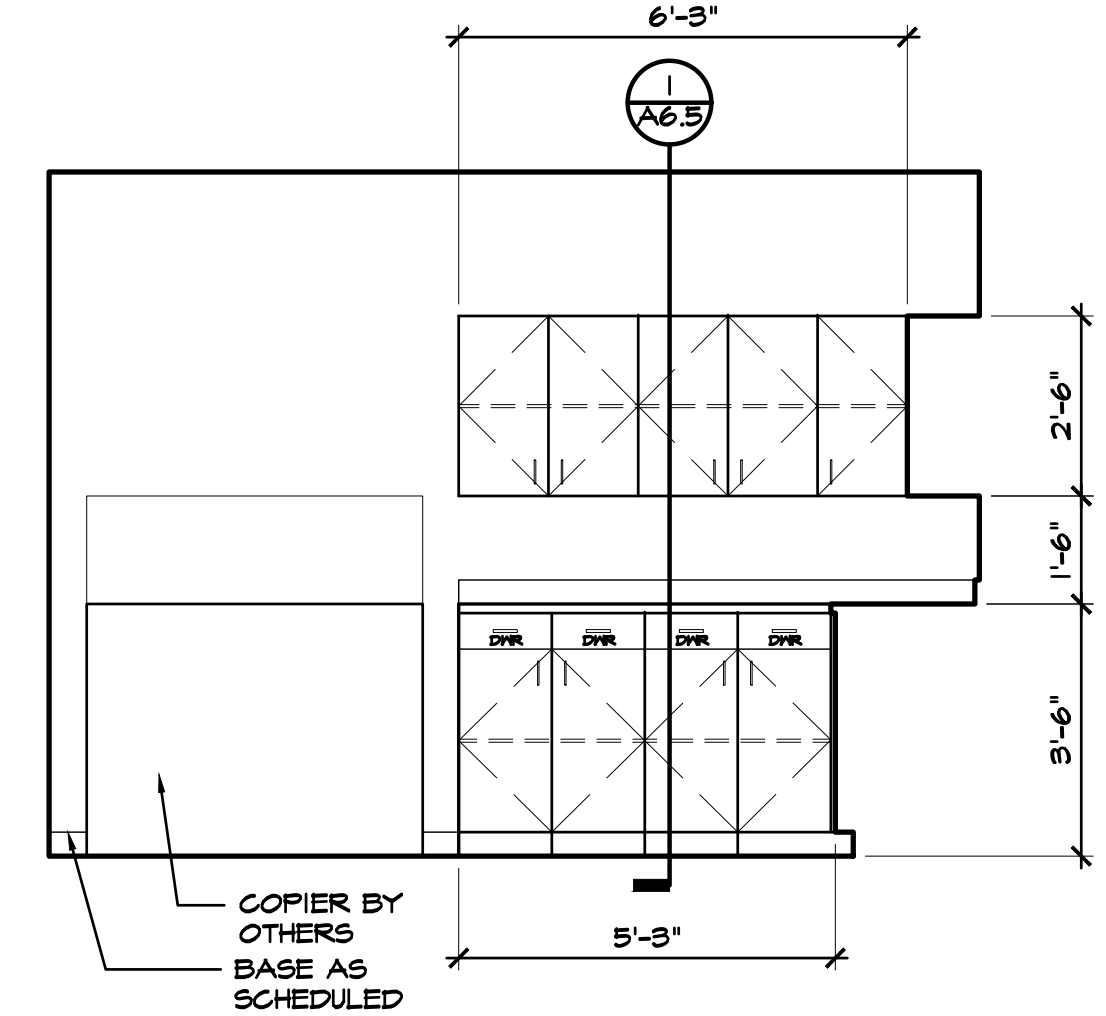
3
 A6.4
 INTERIOR ELEVATION - COPY STATION (SOUTH BUILDING)
 SCALE: 3/8" = 1'-0"



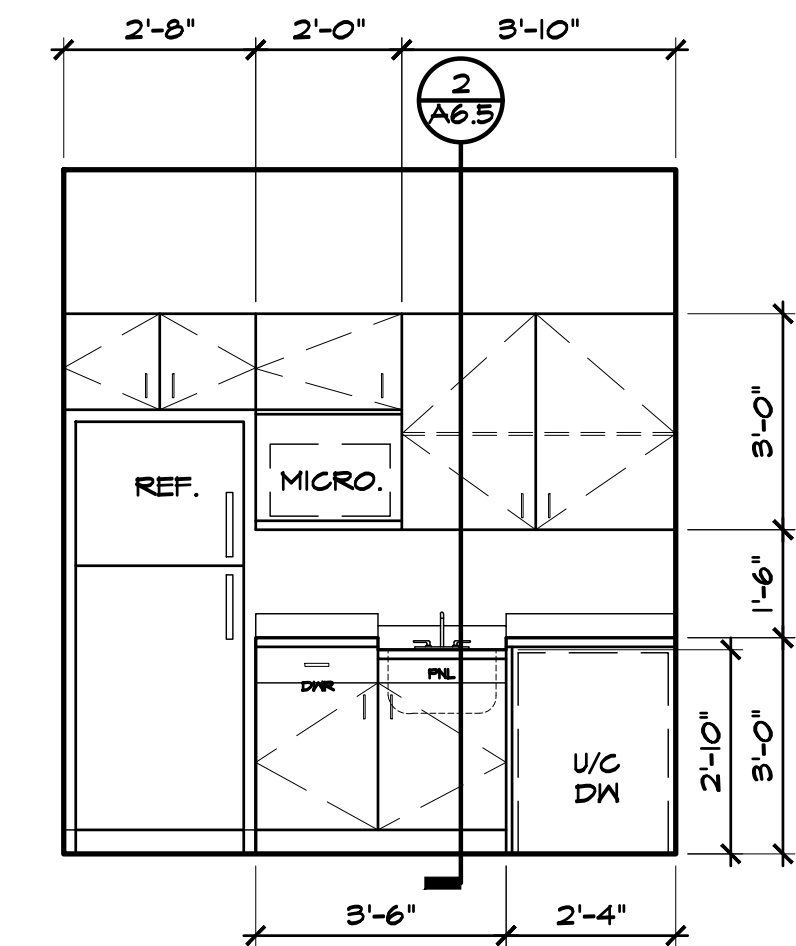
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 A6.4
 INTERIOR ELEVATION - BREAK ROOM (NORTH BUILDING)
 SCALE: 3/8" = 1'-0"



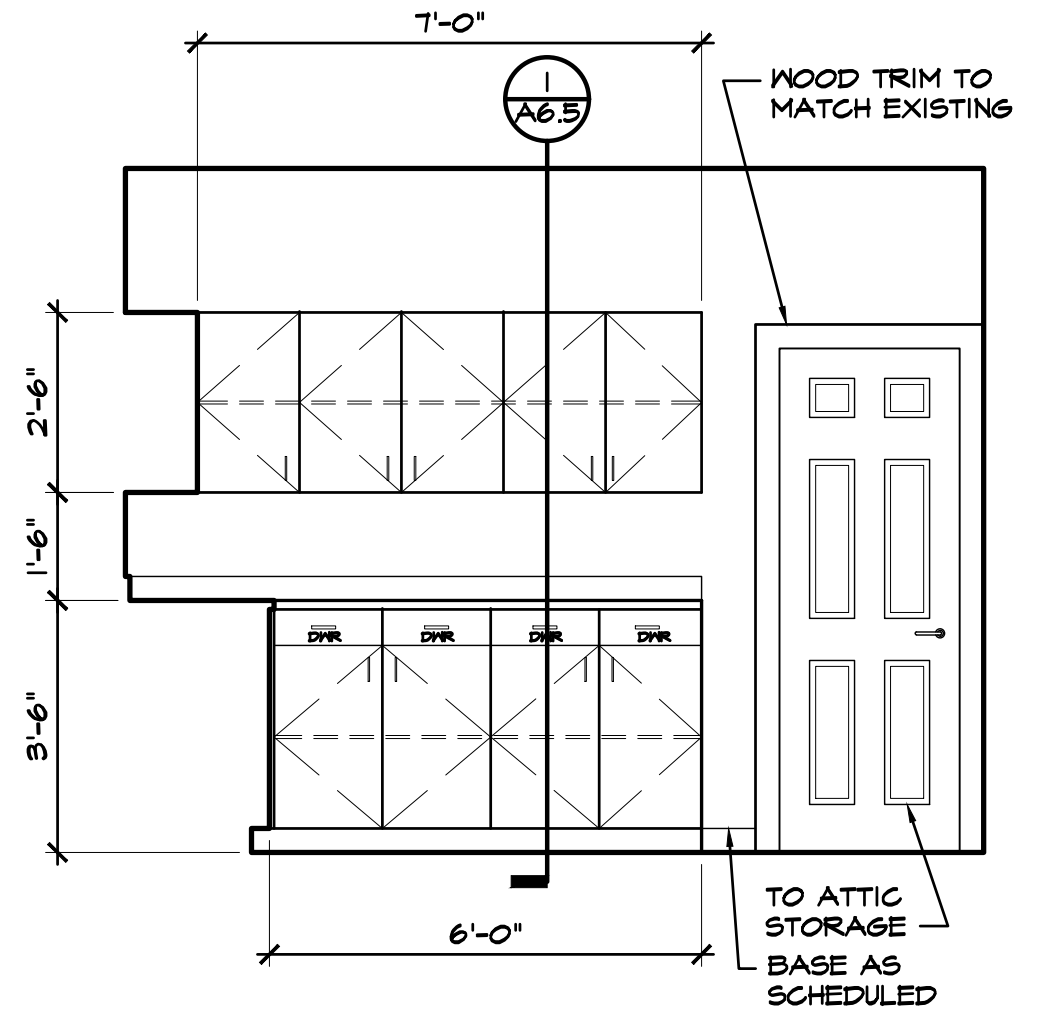
2
 A6.4
 INTERIOR ELEVATION - COPY STATION (SOUTH BUILDING)
 SCALE: 3/8" = 1'-0"



5
 A6.4
 INTERIOR ELEVATION - COPY STATION (NORTH BUILDING)
 SCALE: 3/8" = 1'-0"



1
 A6.4
 INTERIOR ELEVATION - BREAK ROOM (SOUTH BUILDING)
 SCALE: 3/8" = 1'-0"



4
 A6.4
 INTERIOR ELEVATION - COPY STATION (NORTH BUILDING)
 SCALE: 3/8" = 1'-0"



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ALTERATIONS/ RENOVATION TO
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ADMINISTRATION BUILDING**
SPRINGFIELD, GEORGIA

INTERIOR ELEVATIONS:

REVISIONS

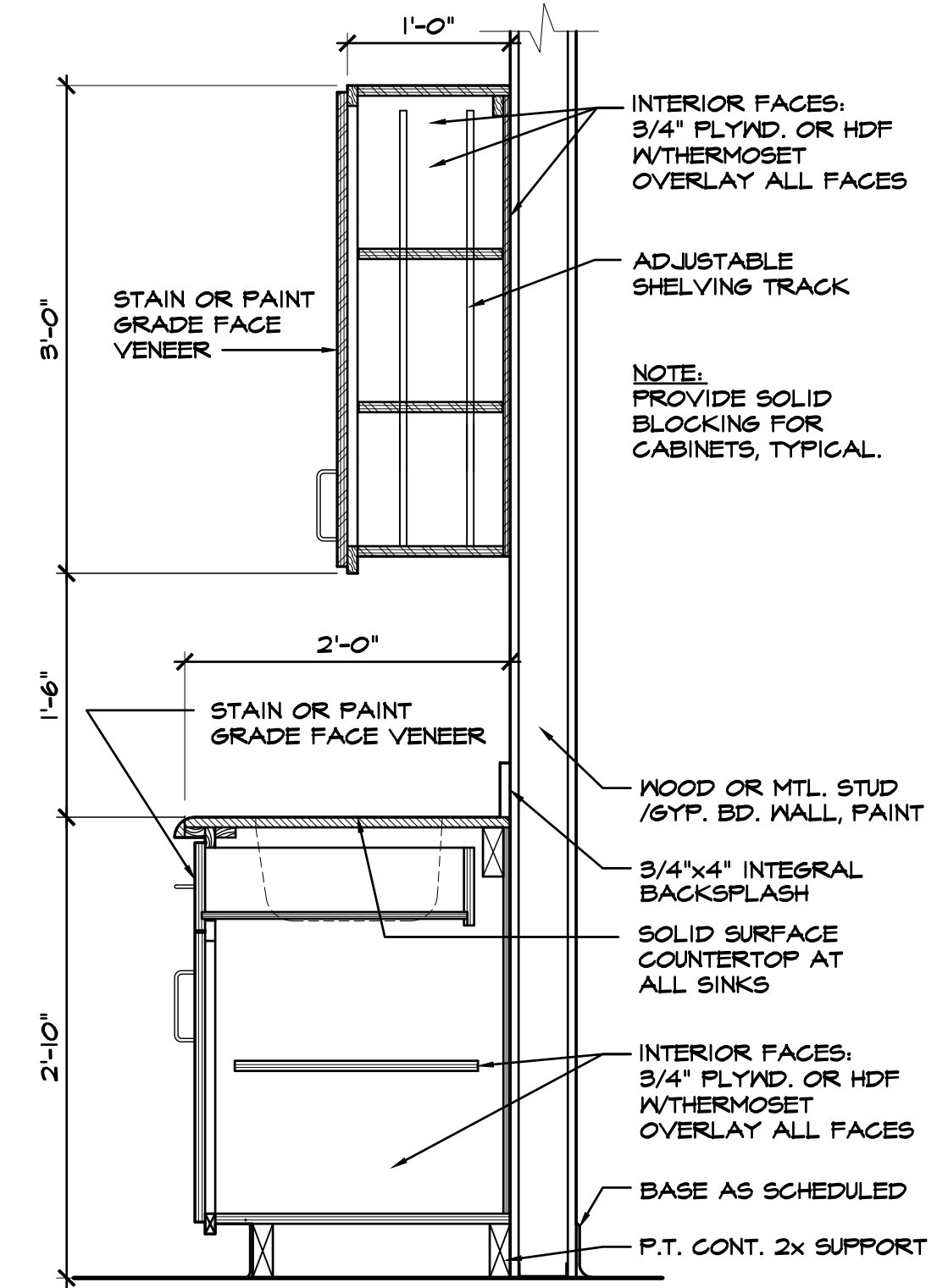
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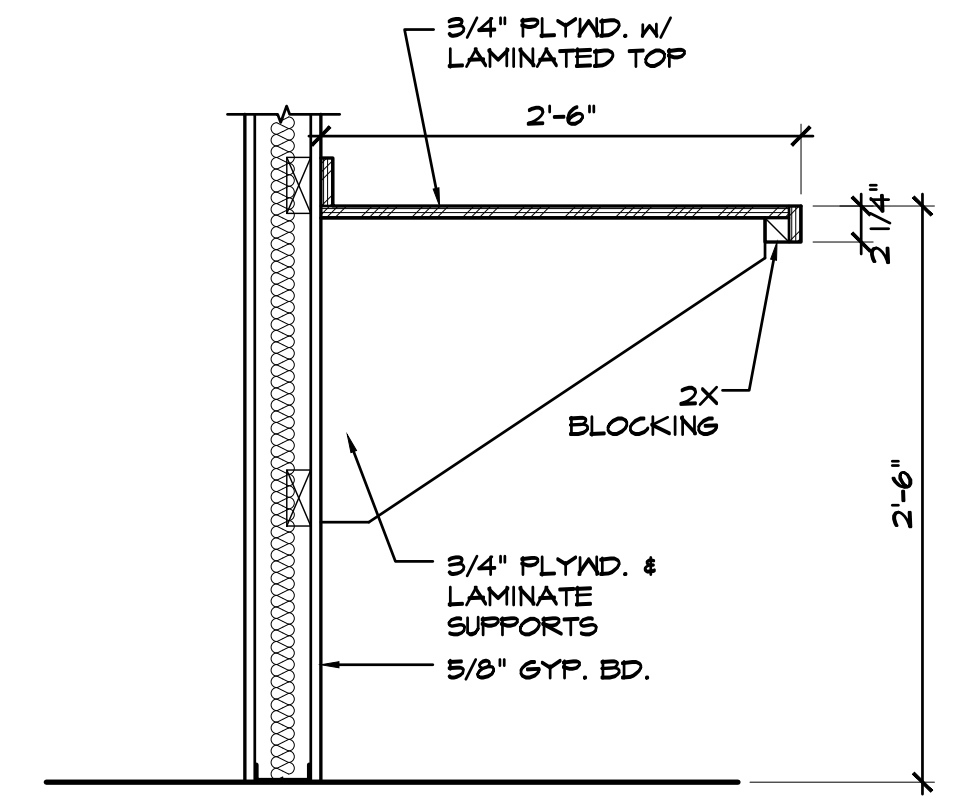
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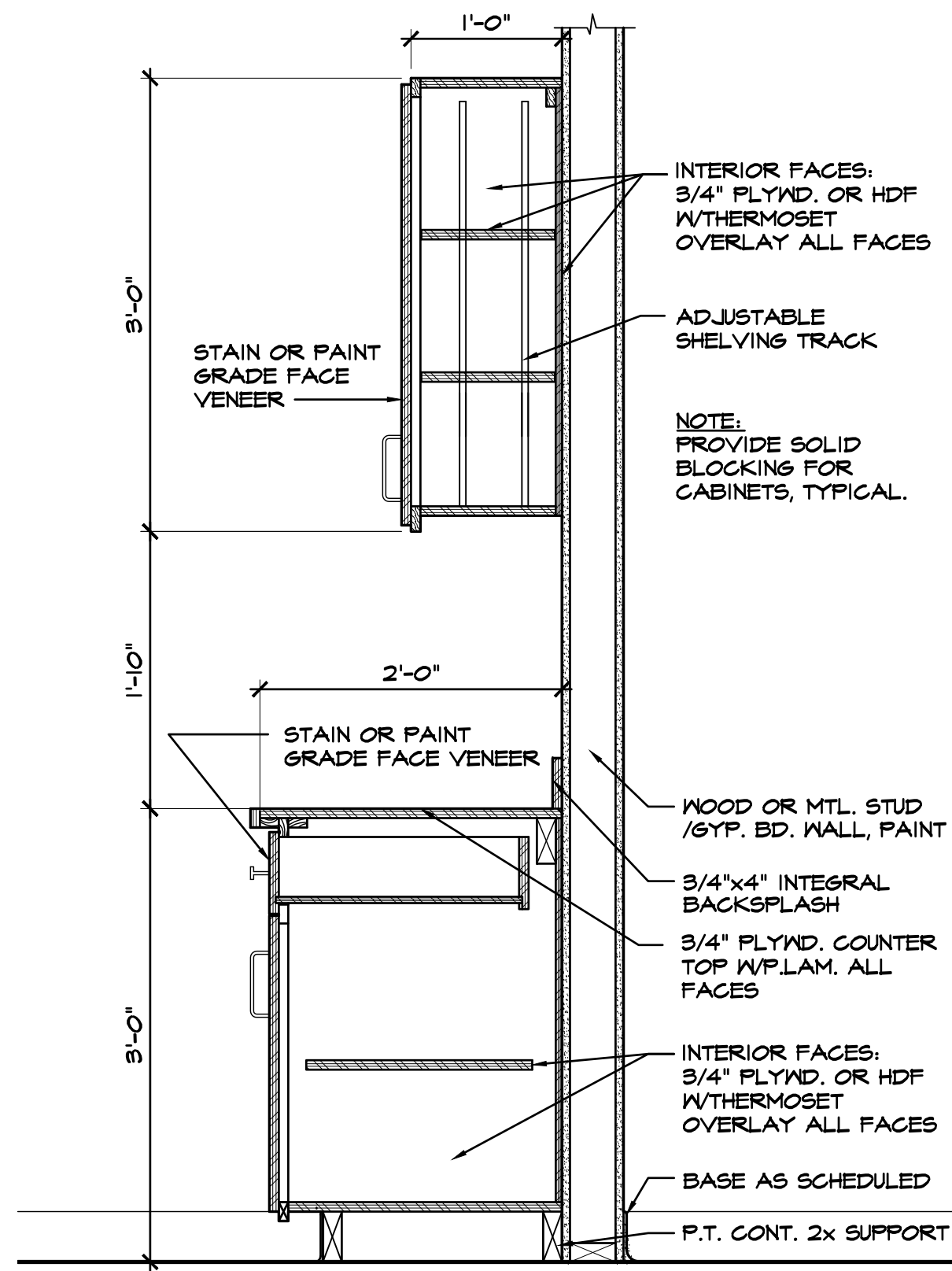
A6.5



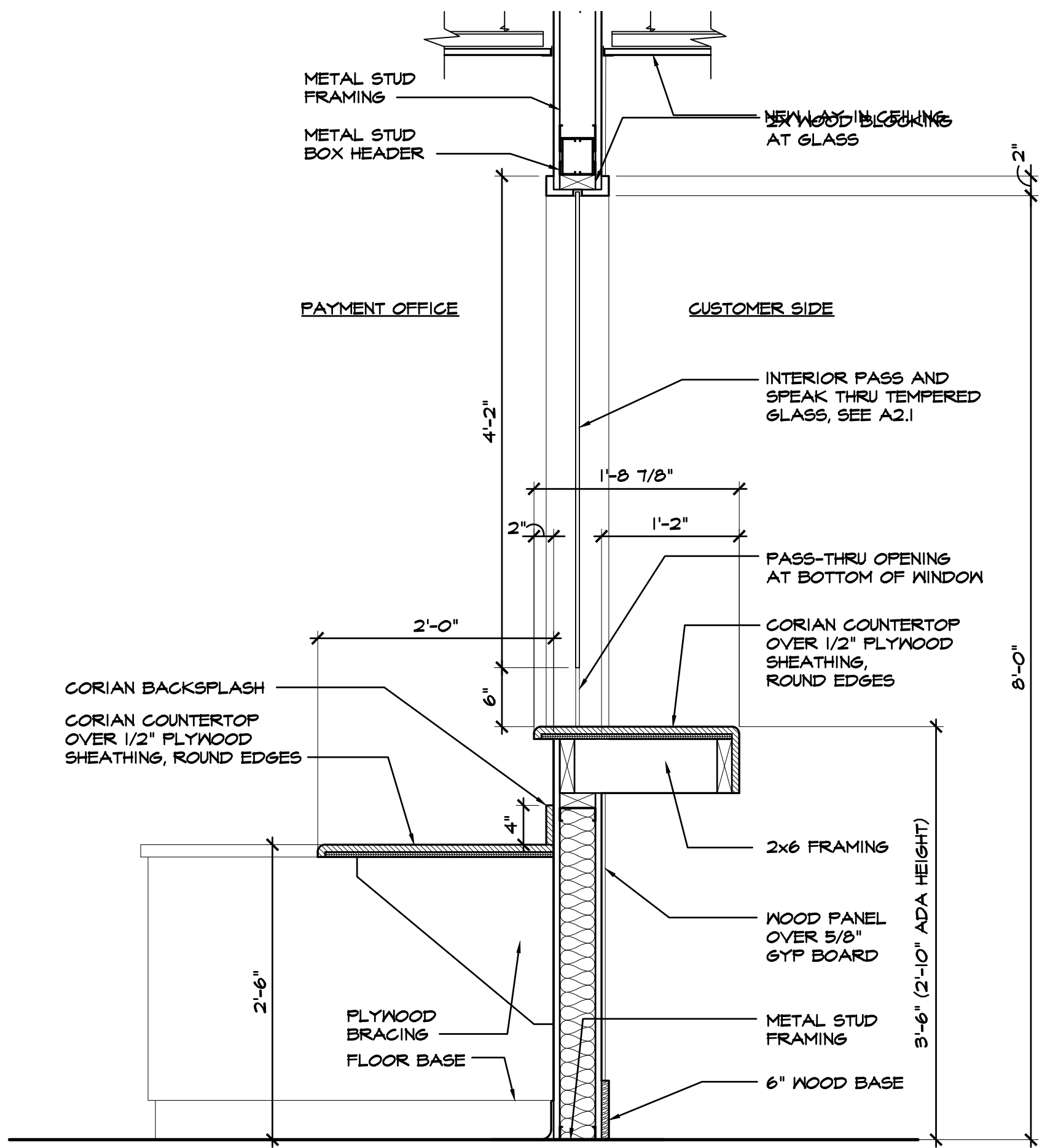
2
A6.5 CASEWORK SECTION
SCALE: 1"=1'-0"



4
A6.5 CASEWORK SECTION
SCALE: 1"=1'-0"



1
A6.5 CASEWORK SECTION
SCALE: 1"=1'-0"



3
A6.5 CASEWORK SECTION
SCALE: 1"=1'-0"

LEGEND & ABBREVIATIONS

ABBREVIATION	SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION
W, S, D		SANITARY WASTE, SOIL & DRAIN	AB	ABOVE
V		VENT - SANITARY	A/C	ABOVE CEILING
CW		DOMESTIC COLD WATER	AFF	ABOVE FINISHED FLOOR
HW		DOMESTIC HOT WATER (120°F)	ADR	ACCESS DOOR
HWR		DOMESTIC HOT WATER RETURN	AP	ACCESS PANEL
CV		CHECK VALVE	BFP	BACKFLOW PREVENTER
		UNION	B/F	BELOW FLOOR
WHA		WATER HAMMER ARRESTOR 'SIZE'	CLG	CEILING
RV		PRESSURE OR TEMPERATURE RELIEF VALVE	CL	CENTER LINE
CO		CLEANOUT	CONN	CONNECTION
FCO		FLOOR CLEANOUT	CONT	CONTINUATION
GCO		GRADE CLEANOUT	DN	DOWN
FD		FLOOR DRAIN 'TYPE'	DWGS	DRAWINGS
			ELEC	ELECTRICAL
			EL	ELEVATION
			EXIST	EXISTING
			EXP	EXPANSION
			FIN	FINISHED
			FL	FLOOR
			HVAC	HEATING, VENTILATION & AIR CONDITIONING
			HB	HOSE BIBB
			IE	INVERT ELEVATION
			L	LEADER
			SAN	SANITARY
			S	SOIL
			TYP	TYPICAL
			U/G	UNDERGROUND
			VTR	VENT THRU ROOF
			NFWH	NON-FREEZE WALL HYDRANT
			W	WASTE

GENERAL NOTES:

- ALL UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. VERIFY EXACT LOCATION AND INVERT ELEVATION IN FIELD BEFORE BEGINNING WORK.
- WALL HYDRANTS SHALL BE MOUNTED 1'-6" ABOVE GRADE, UNLESS NOTED OTHERWISE.
- HOSE BIBBS SHALL BE MOUNTED 1'-6" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE.
- COORDINATE ALL WORK WITH OTHER TRADES.

PLUMBING FIXTURES

SPEC. TYPE	FIXTURE	MINIMUM INDIVIDUAL CONNECTION				REMARKS
		COLD	HOT	VENT	WASTE	
P-1	WATER CLOSET	1/2"	---	---	4"	18" TO RIM (1)
P-3	LAVATORY	1/2"	1/2"	---	1 1/4"	34" TO RIM (1)
P-6	SINK	1/2"	1/2"	---	1 1/2"	COUNTERTOP (1)
P-6A	SINK	1/2"	1/2"	---	1 1/2"	COUNTERTOP (1)
P-8	ICE MAKER CONNECTION BOX	1/2"	---	---	---	18" AFF

(1) FIXTURE TRIM AND INSTALLATION SHALL COMPLY TO ADA REQUIREMENTS.

PUMPS	
PUMP NUMBER	HWC-1
SPEC. TYPE	---
SERVICE	HOT WATER
LOCATION	SEE DRAWINGS
CAPACITY, GPM	1
DISCHARGE HEAD, FT.	10
SUCTION PRESS., FT.	---
FLUID TEMP., F°	120°
RPM	3600
HP	1/12
CONTROLLER	AQUASTAT
ELECTRICAL CHARACTERISTICS	SEE ELEC. DWGS.
REMARKS	

PLUMBING SPECIFICATIONS

CODES

- A. THE PLUMBING INSTALLATION AND EQUIPMENT SHALL CONFORM TO THE FOLLOWING:
- INTERNATIONAL PLUMBING CODE, 2018 EDITION WITH GEORGIA AMENDMENTS.
- TESTING PIPE SYSTEMS
- A. GENERAL. CONCEALED PIPING AND INSULATED PIPING SHALL BE TESTED IN PLACE BEFORE CONCEALING OR COVERING. TEST SHALL BE CONDUCTED IN THE PRESENCE OF THE ARCHITECT OR HIS DESIGNATED REPRESENTATIVE. PIPING LOCATED UNDERGROUND SHALL BE TESTED BEFORE BACKFILLING. EQUIPMENT, MATERIALS AND INSTRUMENTS FOR TESTING SHALL BE FURNISHED BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.

B. PLUMBING SYSTEMS

- SANITARY WASTE AND VENT PIPING. THE PIPING SHALL BE TESTED WITH WATER BEFORE INSTALLING FIXTURES. WATER TESTS SHALL BE APPLIED TO THE SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS. IF THE TEST IS APPLIED TO THE ENTIRE SYSTEM, ALL OPENINGS IN THE PIPING SHALL BE CLOSED EXCEPT THE HIGHEST OPENING, AND THE SYSTEM SHALL BE FILLED WITH WATER AND TESTED WITH AT LEAST A 10 FT. HEAD OF WATER. IN TESTING SUCCESSIVE SECTIONS, AT LEAST THE UPPER 10 FT. OF THE NEXT PRECEDING SECTION SHALL BE TESTED SO THAT EACH JOINT OR PIPE IN THE BUILDING EXCEPT THE UPPERMOST 10 FT. OF THE SYSTEM HAS BEEN SUBMITTED TO A TEST OF AT LEAST 10 FT. HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM, OR IN THE PORTION UNDER TEST FOR AT LEAST 2 HOURS BEFORE THE INSPECTION STARTS. THE SYSTEM SHALL BE TIGHT AT ALL JOINTS.
- WATER PIPING. UPON COMPLETION OF THE ROUGH-IN AND BEFORE SETTING FIXTURES, THE ENTIRE DOMESTIC COLD WATER, HOT WATER, AND HOT WATER CIRCULATION PIPING SYSTEMS SHALL BE TESTED AT HYDROSTATIC PRESSURE OF 100 PSIG AND PROVED TIGHT AT THIS PRESSURE FOR A PERIOD OF NOT LESS THAN 2 HOURS IN ORDER TO PERMIT INSPECTION OF ALL JOINTS. WHERE A PORTION OF THE WATER PIPING SYSTEM IS TO BE CONCEALED BEFORE COMPLETION, THIS PORTION SHALL BE TESTED SEPARATELY IN A MANNER DESCRIBED FOR THE ENTIRE SYSTEM.

DOMESTIC WATER SYSTEM

- A. PROVIDE COMPLETE SYSTEMS OF COLD AND HOT WATER PIPING AND ACCESSORIES SO THAT EVERY FIXTURE AND PIECE OF WATER USING EQUIPMENT IN THIS AREA OF THE BUILDING WILL BE FURNISHED WITH A WATER SUPPLY.
- B. EXTEND THE DOMESTIC COLD AND HOT WATER PIPING AS SHOWN ON THE DRAWINGS.
- C. PIPING FITTINGS AND JOINTS
- PIPE AND FITTINGS SHALL BE AS LISTED HEREIN AND SHALL BE USED ON THE SERVICES INDICATED.
 - TYPE "L" HARD COPPER TUBING, FED. SPEC. NO. WW-T-799, WITH SOLDERED JOINTS AND WROUGHT COPPER SOCKET FITTINGS FOR ALL WATER PIPING ABOVEGROUND.
 - SOLDER JOINTS (FOR TYPE "L" COPPER TUBING) SHALL BE MADE USING A 95-5 TIN-ANTIMONY SOLDER WITH A COMPATIBLE FLUX.
 - UNDERGROUND WATER PIPING SHALL BE TYPE "K" COPPER TUBING WITH SILVER SOLDER JOINTS.
- D. DISINFECTION
- ALL DOMESTIC WATER SERVICE AND SUPPLY PIPING INSTALLED UNDER THIS DIVISION SHALL BE DISINFECTED WITH CHLORINE BEFORE IT IS PLACED INTO OPERATION. THE CHLORINATING MATERIAL SHALL BE LIQUID CHLORINE CONFORMING TO FEDERAL SPECIFICATION BB-C-120 AND SHALL BE INTRODUCED TO THE SYSTEM BY EXPERIENCED OPERATORS ONLY. THE CHLORINE SOLUTION APPLIED TO THE PIPING SECTIONS OR SYSTEM SHALL CONTAIN AT LEAST FIFTY PARTS PER MILLION OF AVAILABLE CHLORINE AND SHALL REMAIN IN THE SECTIONS OR SYSTEM FOR A PERIOD OF NOT LESS THAN SIXTEEN (16) HOURS. DURING THE DISINFECTION PERIOD ALL VALVES SHALL BE OPENED AND CLOSED AT LEAST FOUR TIMES. AFTER THE DISINFECTION PERIOD THE CHLORINATED WATER SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAR WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN TWO-TENTHS (0.2) - PARTS PER MILLION. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT CERTIFICATION THAT THE SYSTEM WAS DISINFECTED.

SANITARY, WASTE, AND VENT SYSTEM

- A. PROVIDE A COMPLETE SYSTEM OF SANITARY, WASTE, AND VENT PIPING AS SHOWN ON THE DRAWINGS.
- B. PIPE FITTINGS AND JOINTS
- PIPE FITTINGS SHALL BE AS LISTED HEREIN AND SHALL BE USED FOR THE SERVICES INDICATED.
 - SERVICE WEIGHT CAST IRON SOIL PIPE AND FITTINGS ASTM A74, WITH CLAMPED HUBLESS JOINTS FOR ALL ABOVEGROUND SANITARY AND WASTE PIPING.
 - CLAMPED JOINTS (FOR HUBLESS CAST IRON PIPE) SHALL BE MADE WITH BOLTED STAINLESS STEEL CLAMPS AND NEOPRENE GASKET. CLAMPS SHALL BE TIGHTENED BY ALTERNATELY TIGHTENING SCREWS TO 60 IN. LB. TORQUE. CLAMPS SHALL MATCH EXISTING IN BUILDING.
 - ABOVE GROUND VENT PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT GLUED JOINTS.
- C. INSTALLATION
- HORIZONTAL SOIL AND WASTE PIPING 2-1/2 INCHES IN SIZE AND SMALLER SHALL BE SLOPED AT A MINIMUM OF 1/4 INCH PER FOOT. HORIZONTAL SOIL AND WASTE PIPING 3 INCHES IN SIZE AND LARGER SHALL BE SLOPED AT A MINIMUM OF 1/8 INCH PER FOOT.
 - HORIZONTAL VENT BRANCHES SHALL BE KEPT ABOVE THE HIGHEST FIXTURE SERVED BY THE VENT BRANCH IN ORDER TO PRECLUDE THE POSSIBILITY OF VENTS BEING USED AS WASTE PIPES. HORIZONTAL VENT BRANCHES SHALL BE SLOPED TO PREVENT THE ACCUMULATION OF WATER OR SCALE THEREIN.
 - ON SOIL, WASTE AND VENT PIPING CHANGES IN PIPE SIZE SHALL BE MADE WITH REDUCING FITTINGS AND CHANGES IN PIPE DIRECTION SHALL BE MADE WITH FITTINGS. NO BUSHINGS WILL BE ALLOWED.
 - DURING CONSTRUCTION ALL PIPE OPENINGS, NOT BEING WORKED ON, SHALL BE PLUGGED OR CAPPED TO PREVENT FOREIGN OBJECTS FROM ENTERING SYSTEM.

INSULATION

- A. ALL WATER PIPING AND STORM DRAINAGE PIPING SHALL BE INSULATED WITH FIBERGLASS JACKETED PIPE INSULATION.

PLUMBING FIXTURES

- A. WATER CLOSET P-1
- FIXTURE KOHLER K-25077
SEAT BENEKE 527 SS/CH-HPSS
SUPPLIES BRASSCRAFT
- B. LAVATORY P-3
- FIXTURE KOHLER K-2032
FAUCET SLDAN ETF-600-PLG-1R-0.5GPM-CP-BDT-ADA
DRAIN KOHLER K-13885
P-TRAP MCGUIRE 8872
SUPPLIES BRASSCRAFT
P TRAP INSULATION TRUEBRO W102 WITH W105 CARRIER J.R.SMITH
- C. SINK P-6
- SINK JUST SL-2222-A-GR-ADA
FAUCET JUST J-902
DRAIN JUST JV-35
P-TRAP MCGUIRE
- D. SINK P-6A
- SINK JUST SL-2222-A-GR-ADA
FAUCET JUST J-1174-KS
DRAIN JUST JV-35
P-TRAP MCGUIRE
- E. ICE MAKER CONNECTION BOX P-8
- FIXTURE WATERTITE 9000
- F. CIRCULATOR PUMP HWC-1
- TACO MODEL 007 WITH "00" TIMER AQUASTAT
- G. AM. STD. IS AN APPROVED EQUAL TO KOHLER, ELKAY IS AN APPROVED EQUAL TO JUST, ZURN IS AN APPROVED EQUAL TO SLDAN



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ALTERATIONS/ RENOVATION TO
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PLUMBING - LEGENDS,
 SCHEDULES AND
 SPECIFICATIONS

REVISIONS

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SPRINGFIELD, GEORGIA

SOUTH BUILDING
DEMOLITION PLANS -
SANITARY

REVISIONS

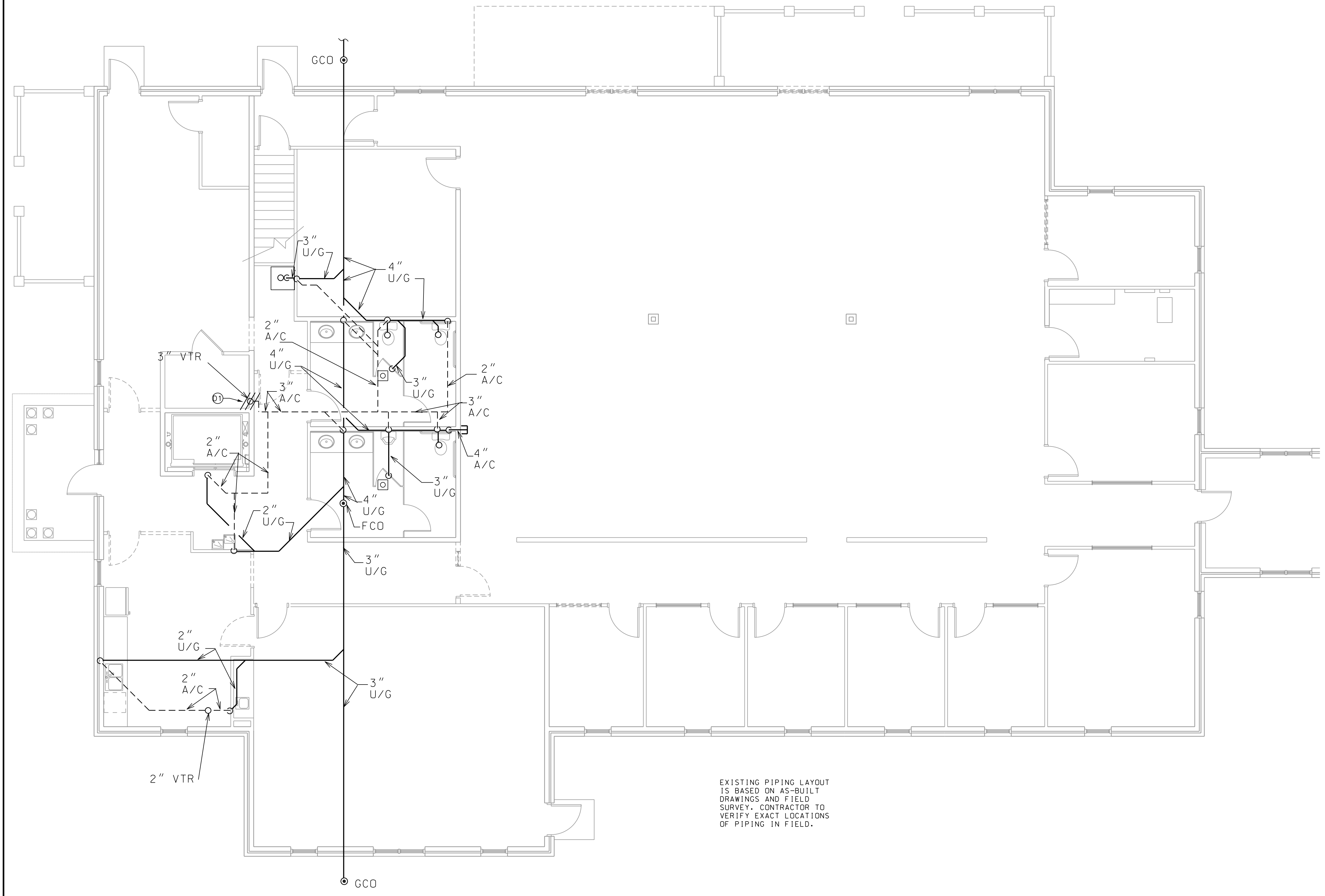
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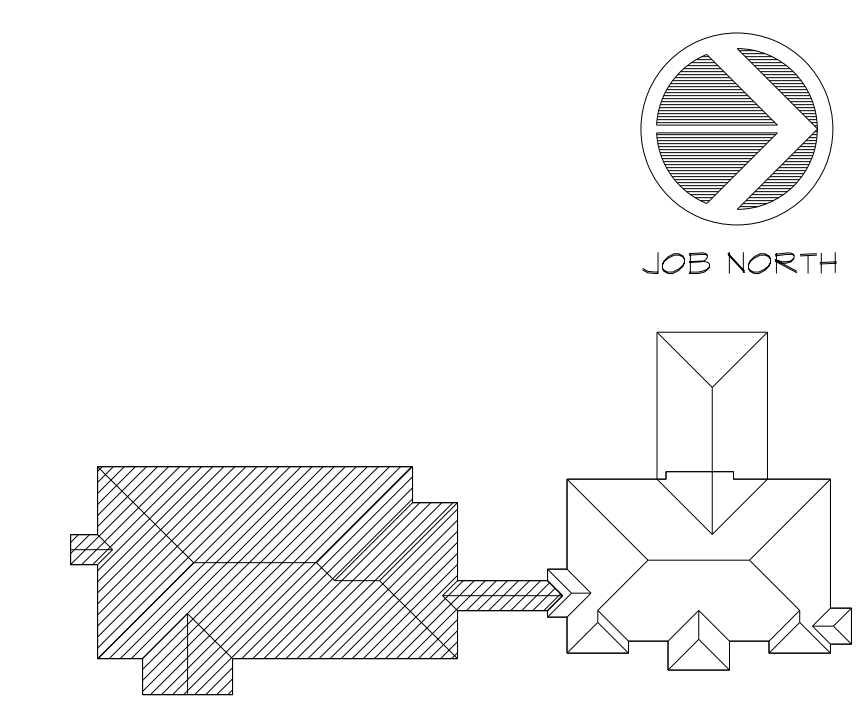
P1.1

EXISTING VENT PIPING SHOWN HATCHED TO BE REMOVED. EXISTING STACK TO BE REMOVED FROM FIRST FLOOR CEILING THROUGH SECOND FLOOR SPACE AND TO BELOW ROOF DECK. COORDINATE WITH NEW WORK PLANS RECONNECTIONS.



EXISTING PIPING LAYOUT IS BASED ON AS-BUILT DRAWINGS AND FIELD SURVEY. CONTRACTOR TO VERIFY EXACT LOCATIONS OF PIPING IN FIELD.

2
PI.1
NOTES
SCALE: NTS

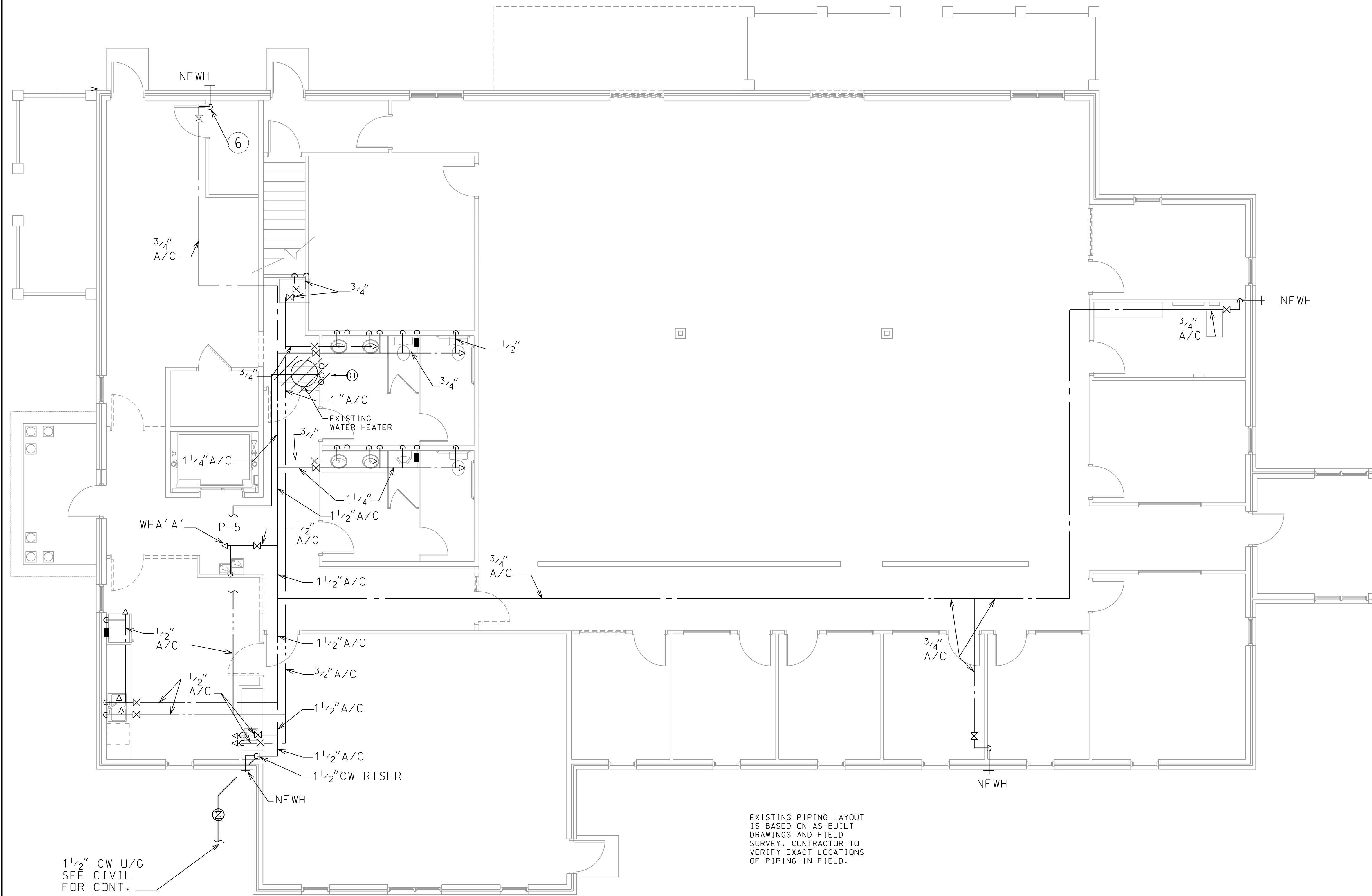


3
PI.1
KEY PLAN
SCALE: NTS

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14 AUG 2020
15:34
mpeover

1
PI.1
DEMOLITION SOUTH FIRST FLOOR PLAN - SANITARY
SCALE: 3/16" = 1'-0"

SECOND FLOOR SPACE IS SHELL ATTIC AREA. THERE IS NO PLUMBING EXCEPT FOR VTR STACK TO BE RELOCATED.



① EXISTING WATER HEATER AND PUMP TO BE RELOCATED. EXISTING PIPING SHOWN HATCHED TO BE REMOVED. COORDINATE WITH NEW WORK.



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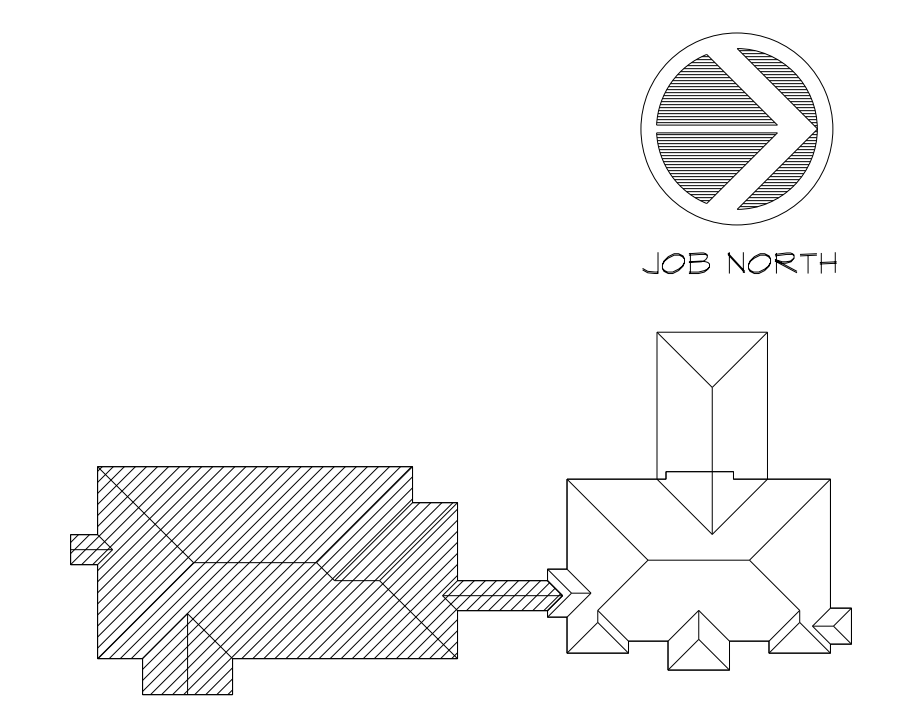
ALTERATIONS/ RENOVATION TO
**EFFINGHAM COUNTY
ADMINISTRATION BUILDING**
SPRINGFIELD, GEORGIA

REVISIONS

**SOUTH BUILDING
DEMOLITION PLANS -
WATER**

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②
PI.2
NOTES
SCALE: NTS



③
PI.2
KEY PLAN
SCALE: NTS

EXISTING PIPING LAYOUT IS BASED ON AS-BUILT DRAWINGS AND FIELD SURVEY. CONTRACTOR TO VERIFY EXACT LOCATIONS OF PIPING IN FIELD.

1 1/2\"/>

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①
PI.2
DEMOLITION SOUTH FIRST FLOOR PLAN - WATER
SCALE: 3/16\"/>

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P1.2



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NORTH BUILDING
 DEMOLITION PLANS -
 PLUMBING

REVISIONS

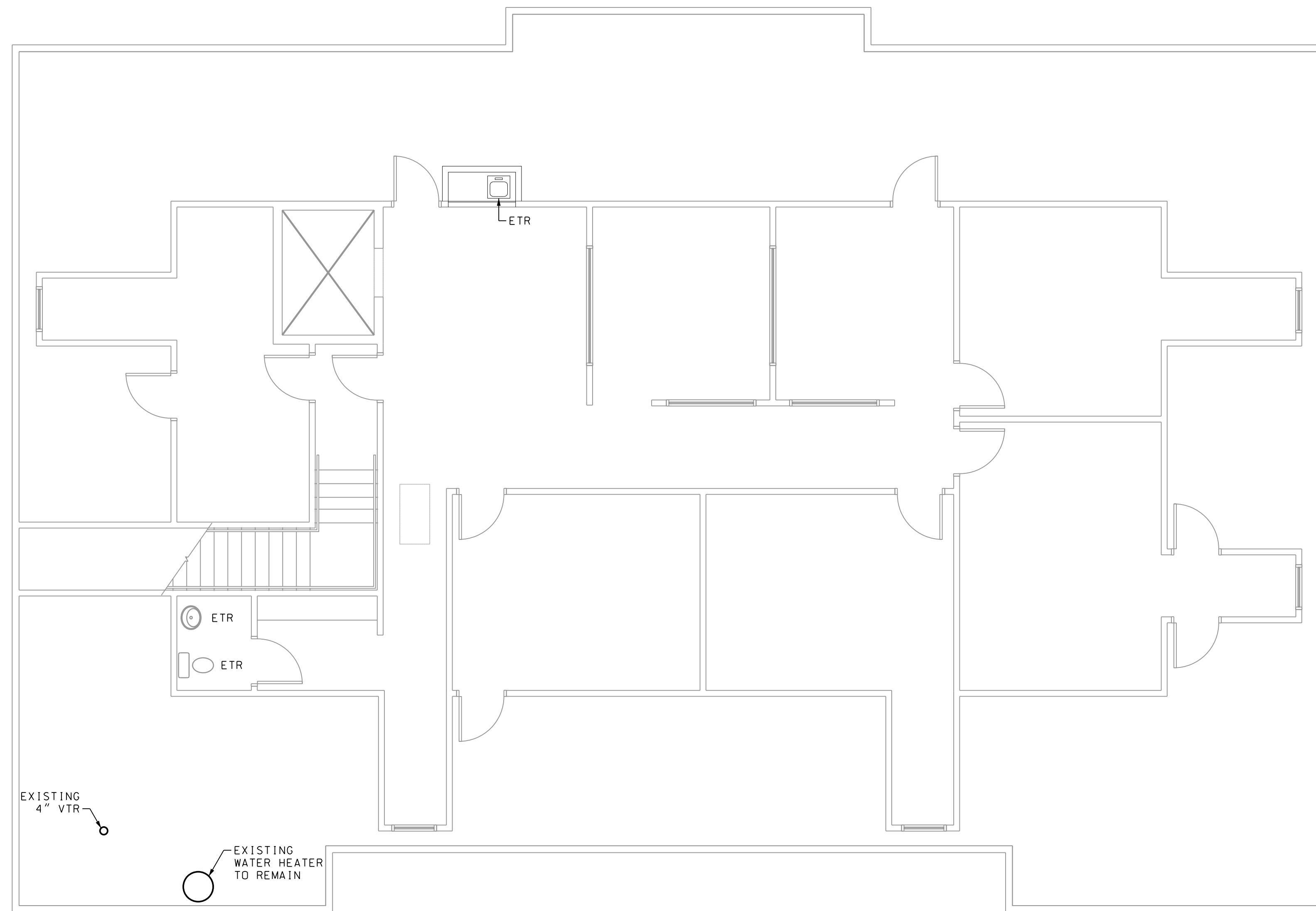
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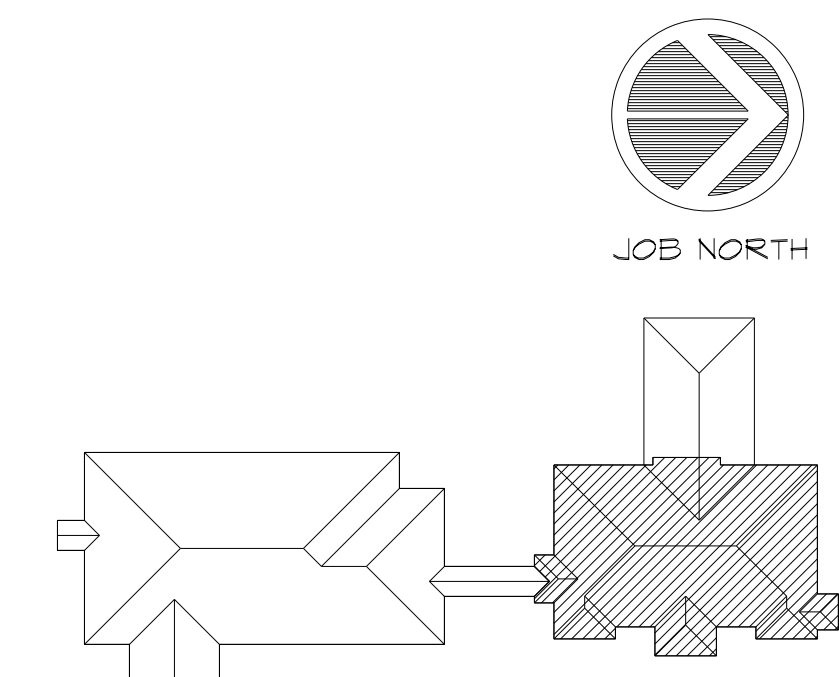
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P1.3



EXISTING PIPING LAYOUT IS BASED ON AS-BUILT DRAWINGS AND FIELD SURVEY. CONTRACTOR TO VERIFY EXACT LOCATIONS OF PIPING IN FIELD.

2
 P1.3 NOTES
 SCALE: NTS



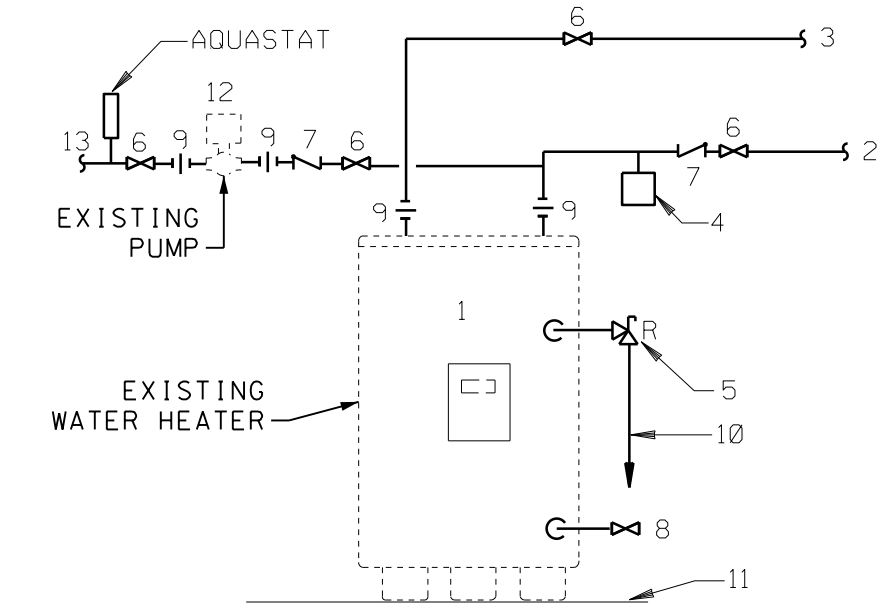
3
 P1.3 KEY PLAN
 SCALE: NTS

1
 P1.3 DEMOLITION NORTH FLOOR PLAN - PLUMBING
 SCALE: 3/16" = 1'-0"

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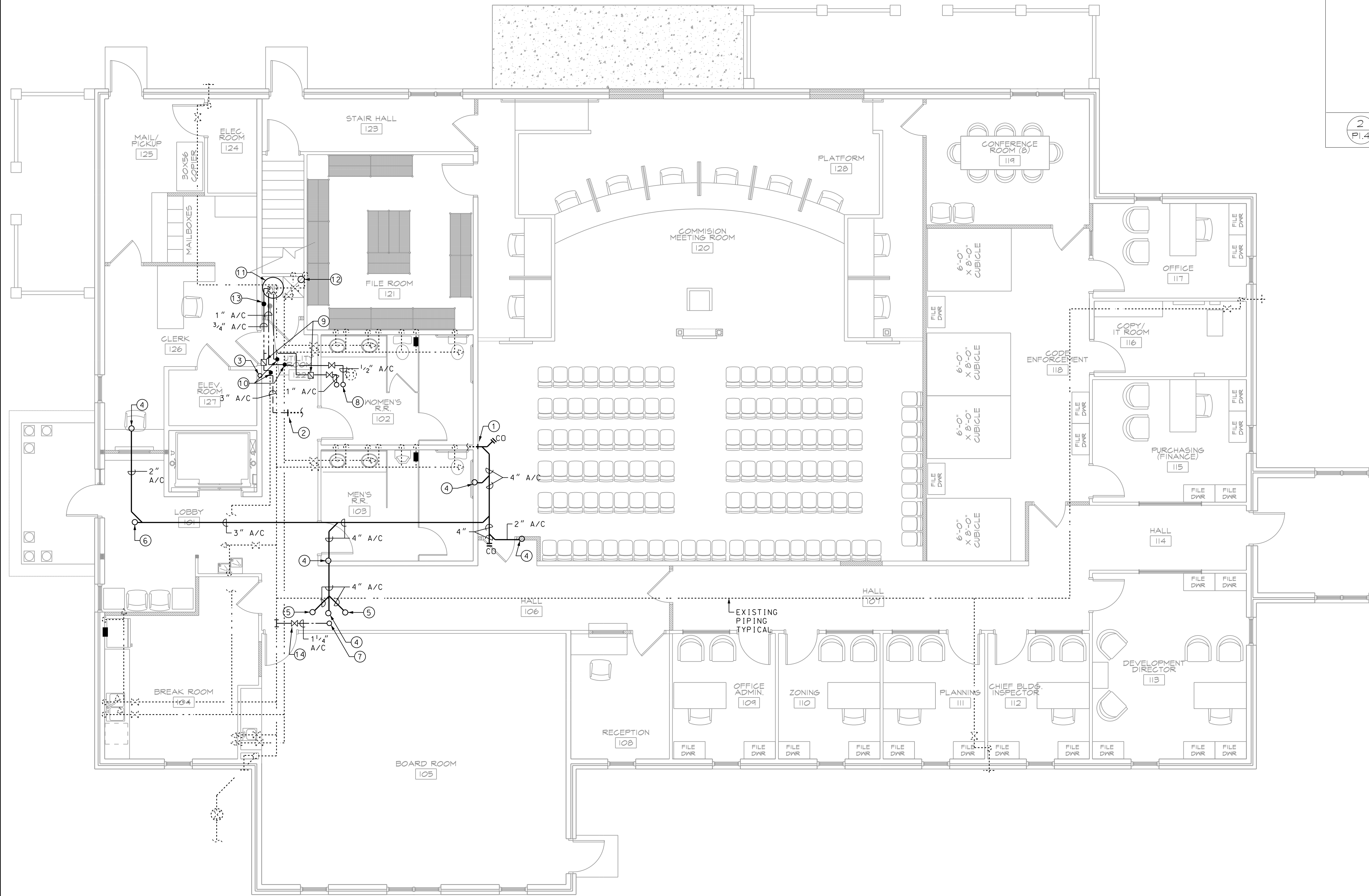


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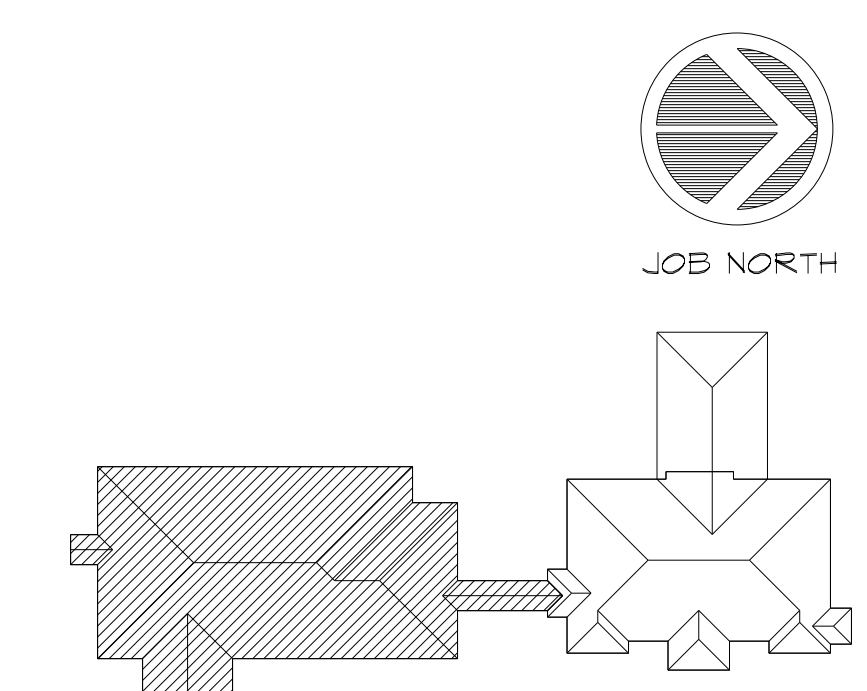
1. EXISTING WATER HEATER
2. COLD WATER SUPPLY
3. HOT WATER TO SYSTEM
4. THERMAL EXPANSION TANK
5. PRESSURE & TEMPERATURE RELIEF VALVE
6. SHUT-OFF VALVE
7. CHECK VALVE
8. 3/4" DRAIN VALVE
9. UNION
10. PIPE RELIEF VALVE DISCHARGE FULL SIZE TO FLOOR DRAIN
11. MOUNT HEATER ON STAND TO CLEAR MOP SINK
12. EXISTING HOT WATER RETURN PUMP
13. HOT WATER RETURN

2
P1.4 WATER HEATER DETAIL
SCALE: SCHEMATIC



- 1 CONNECT TO THE EXISTING 4" SAN A/C.
- 2 CONNECT TO THE EXISTING 3" V A/C.
- 3 3" V. UP.
- 4 2" W. UP.
- 5 4" SAN UP.
- 6 3" W UP TO FCO.
- 7 1 1/2" CW UP TO FLOOR ABOVE.
- 8 1" HW & 1/2" HWR UP TO FLOOR ABOVE.
- 9 1.0 GPM FIXED FLOW CONTROL VALVE.
- 10 CONNECT TO THE EXISTING.
- 11 1" HW, 1" CW AND 3/4" HWR DROPS TO RELOCATED WATER HEATER MOUNTED ON STAND TO CLEAR MOP SINK. SEE 2/P1.4.
- 12 THERMAL EXPANSION TANK MOUNTED AT CEILING.
- 13 RELOCATED CIRCULATION PUMP.
- 14 PROVIDED ACCESS PANEL IN CEILING FOR VALVE.

3
P1.4 NOTES
SCALE: NTS



4
P1.4 KEY PLAN
SCALE: NTS

ALTERATIONS/ RENOVATION TO
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ADMINISTRATION BUILDING
SPRINGFIELD, GEORGIA

SOUTH BUILDING
FIRST FLOOR PLAN -
PLUMBING

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P1.4

1
P1.4 FIRST FLOOR PLAN - PLUMBING
SCALE: 3/16" = 1'-0"



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**SOUTH BUILDING
SECOND FLOOR PLAN -
PLUMBING**

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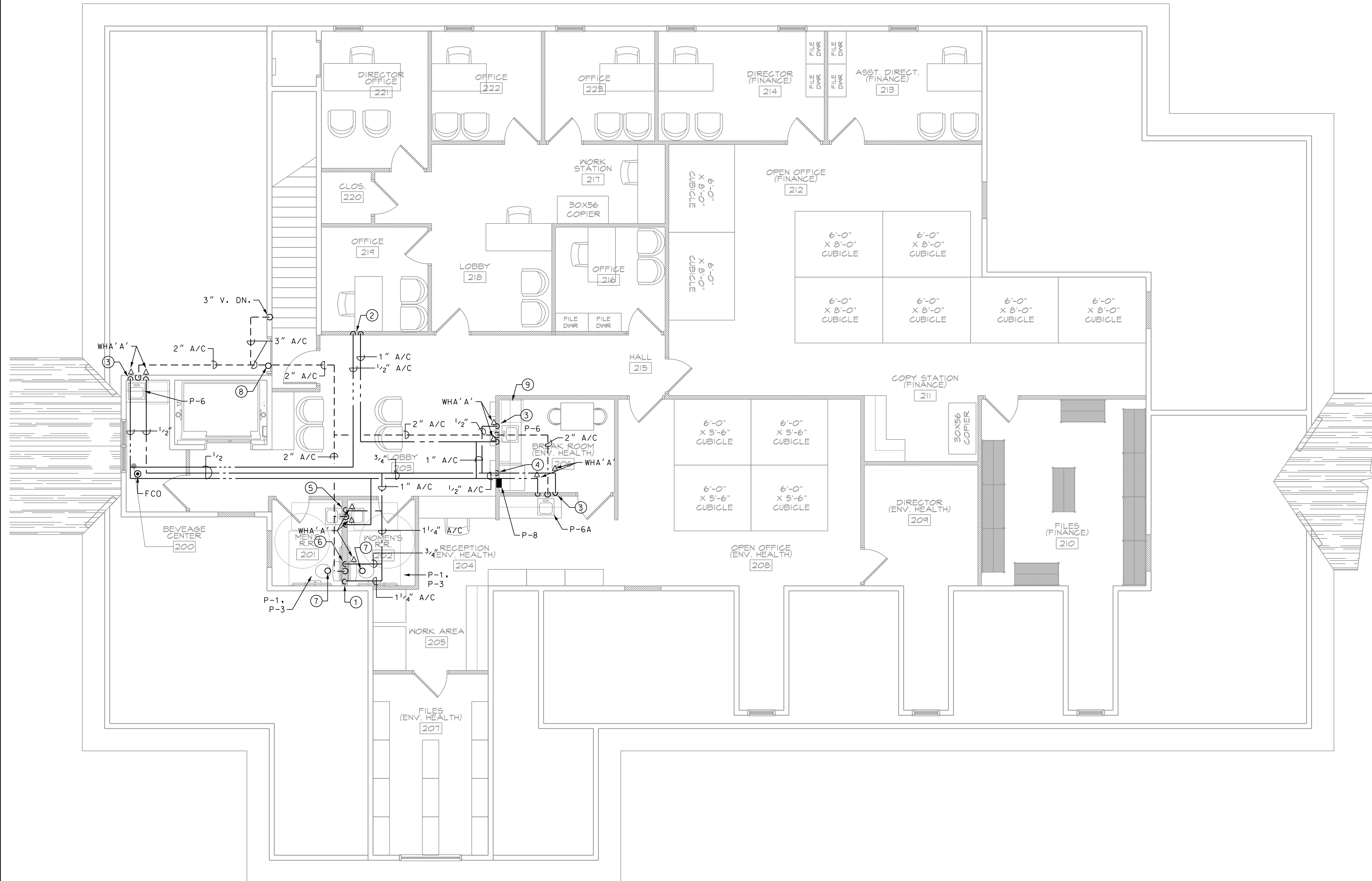


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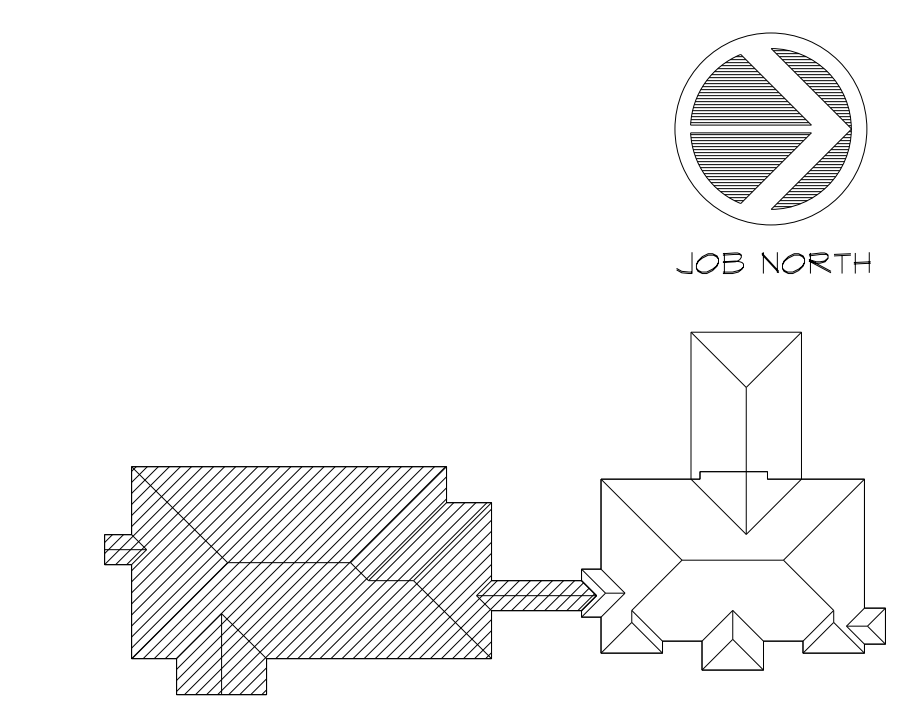
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P1.5

- 1 1/4" CW DN TO FLOOR BELOW.
- 1" HW & 1/2" HWR DN TO FLOOR BELOW.
- 2" V. DN., 1/2" HW & CW DROPS.
- 1/2" CW DROP.
- 2" V. DN., 3/4" HW & CW DROP.
- 2" V. DN., 3/4" CW DROP.
- 4" SAN DN.
- 3" V. UP. CONNECT TO THE EXISTING VTR AT UNDERSIDE OF ROOF DECK.
- PROVIDE CONNECTIONS FOR DISHWASHER.



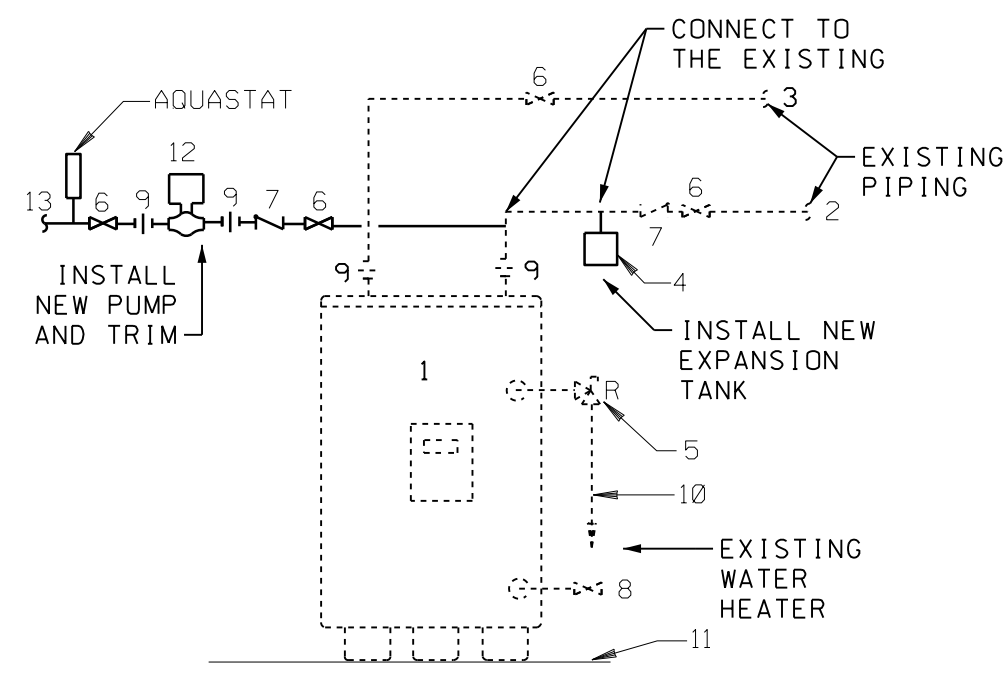
2
P1.5
NOTES
SCALE: NTS



3
P1.5
KEY PLAN
SCALE: NTS

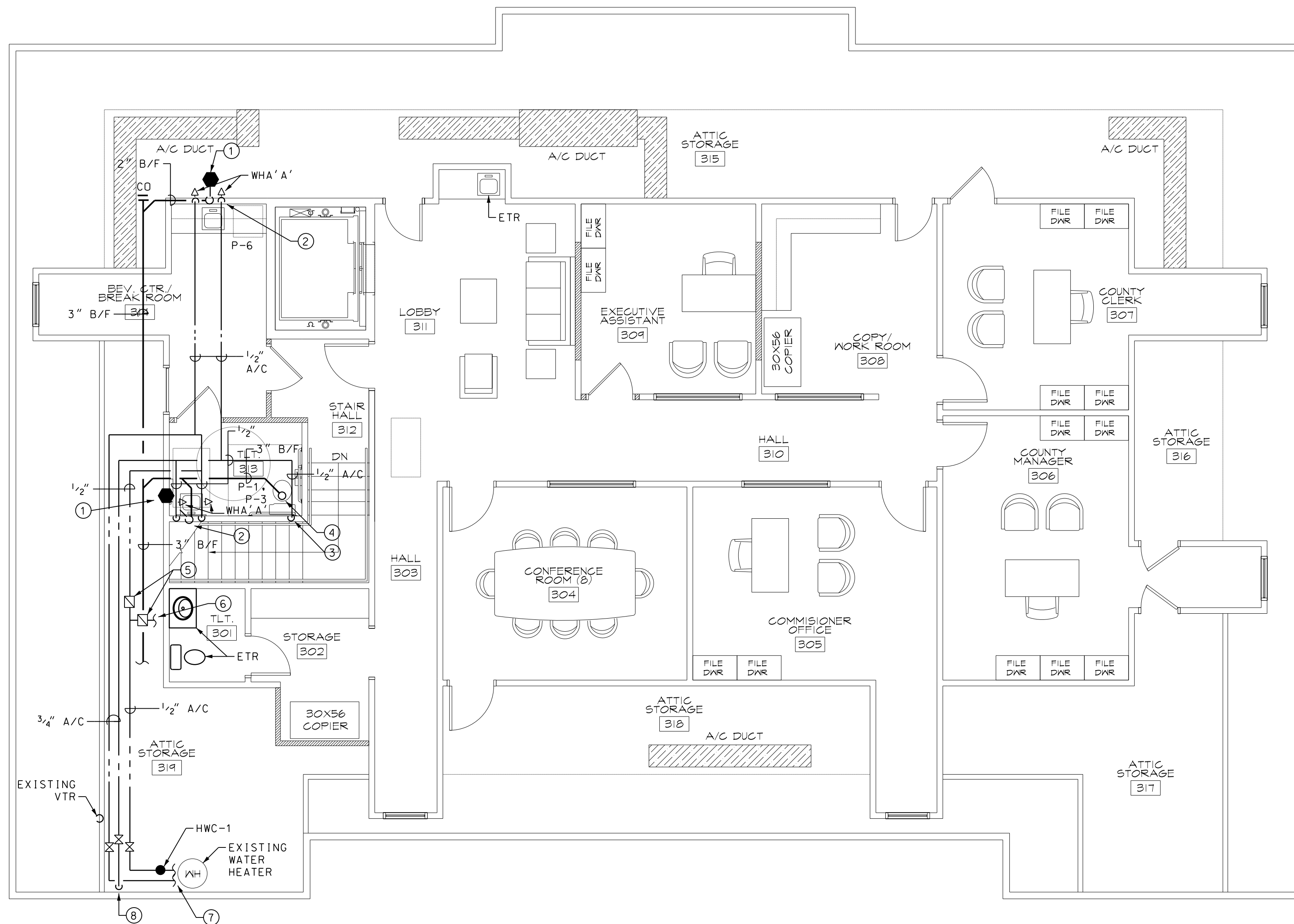
1
P1.5
SOUTH SECOND FLOOR PLAN - PLUMBING
SCALE: 3/16" = 1'-0"

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- 1. WATER HEATER
- 2. COLD WATER SUPPLY
- 3. HOT WATER TO SYSTEM
- 4. THERMAL EXPANSION TANK
- 5. PRESSURE & TEMPERATURE RELIEF VALVE
- 6. SHUT-OFF VALVE
- 7. CHECK VALVE
- 8. 3/4" DRAIN VALVE
- 9. UNION
- 10. PIPE RELIEF VALVE DISCHARGE FULL SIZE TO FLOOR DRAIN
- 11. FINISHED FLOOR
- 12. HOT WATER RETURN PUMP
- 13. HOT WATER RETURN

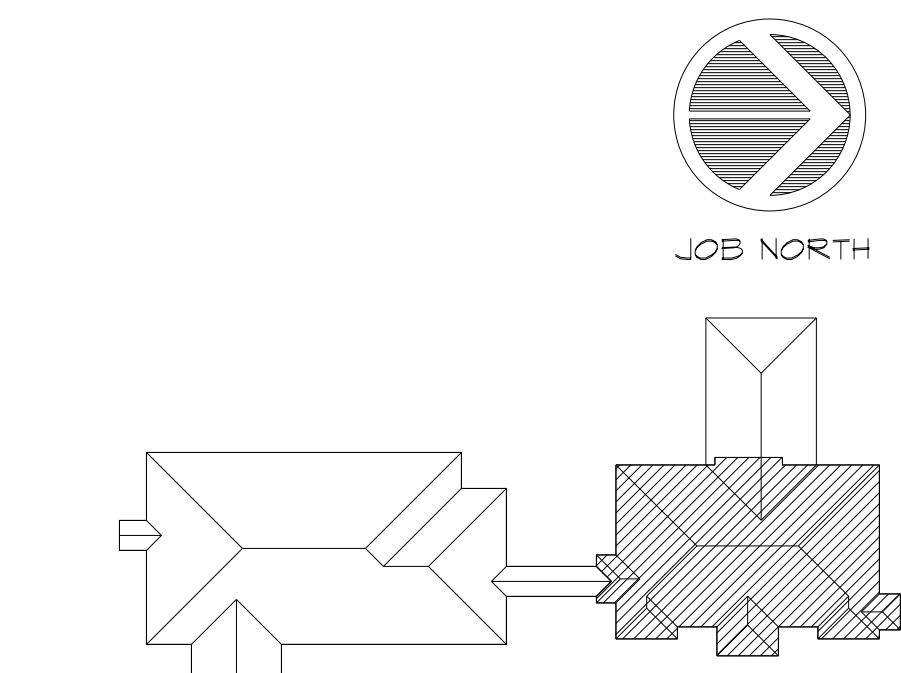
2
P1.6
EXISTING WATER HEATER
SCALE: SCHEMATIC



1
P1.6
NORTH SECOND FLOOR PLAN - PLUMBING
SCALE: 3/16" = 1'-0"

- 1. AUTOMATIC VENT VALVE.
- 2. 2" V. DN. 1/2" HW & CW DROPS.
- 3. 1/2" CW DROP.
- 4. 3" SAN DN.
- 5. 0.5 GPM FIXED FLOW VALVE.
- 6. EXTEND 1/2" HWR AND CONNECT TO THE EXISTING HW.
- 7. EXTEND 3/4" HW & 1/2" HWR AND CONNECT TO THE EXISTING WATER HEATER. SEE 2/P1.6.
- 8. 3/4" CW DROP. CONNECT TO THE EXISTING 1" OR LARGER CW IN AREA OF RESTROOM ON FLOOR BELOW.

3
P1.6
NOTES
SCALE: NTS



4
P1.6
KEY PLAN
SCALE: NTS



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ALTERATIONS/ RENOVATION TO
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**NORTH BUILDING
FLOOR PLANS -
PLUMBING**

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LEGEND & ABBREVIATIONS		
ABBREVIATION	SYMBOL	DESCRIPTION
	—	SINGLE LINE DUCT
	~	FLEXIBLE DUCT
	→	DUCT TRANSITION
	⊕	ROUND
	→	DIRECTION OF FLOW
MLD/MD	⊠	MANUAL DAMPER
T*STAT	Ⓢ	THERMOSTAT

ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
A/C	ABOVE CEILING
AHU	AIR HANDLING UNIT
AD	DUCT ACCESS DOOR
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CTE	CONNECT TO EXISTING
DN	DOWN
DWGS	DRAWINGS
EF	EXHAUST FAN
ELEC	ELECTRIC
EXH	EXHAUST
EXIST	EXISTING
GPM	GALLONS PER MINUTE
HVAC	HEATING VENTILATING & AIR CONDITIONING
MAX	MAXIMUM
MIN	MINIMUM
TG	TRANSFER GRILLE
TYP	TYPICAL

DESIGN CONDITIONS		
	WINTER DESIGN DB (°F)	SUMMER DESIGN DB (°F) / WB (°F)
DESIGN WEATHER CONDITIONS	27.1	95.5 / 77.3
INTERIOR DESIGN CONDITIONS	70.0	75.0 / 62.5

① PER ASHRAE WEATHER DATA

GENERAL NOTES:

- COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
- UNLESS OTHERWISE INDICATED, INSTALL ALL SPACE THERMOSTATS, HUMIDISTATS AND SENSORS 48 INCHES ABOVE FINISHED FLOOR.
- DUCT SIZES SHOWN ARE ACTUAL INSIDE DIMENSIONS.
- FLEXIBLE OR ROUND DUCT SHALL BE CONNECTED TO RECTANGULAR OR SQUARE DUCT WITH A SPIN-IN COLLAR WITH SCOOP AND DAMPER.
- INSTALL TURNING VANES IN ALL 45 AND 90 DEGREE MITERED ELBOWS.
- EXISTING CONDITIONS: THE DESIGN IS BASED ON BASIC FIELD INVESTIGATIONS AND EXISTING PLANS WHERE AVAILABLE. AS SUCH, THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS. IF ANY DEVIATIONS ARE DISCOVERED BETWEEN THE ACTUAL CONDITIONS AND THE CONDITIONS SHOWN ON THE DESIGN DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AS MODIFICATIONS MAY BE REQUIRED. CONTRACTOR SHALL ALSO VERIFY SPACE ABOVE CEILINGS AND IN MECHANICAL ROOMS PRIOR TO FABRICATION OF DUCTWORK.

GENERAL HVAC:

- THE MECHANICAL EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE FOLLOWING CODES:
 - THE INTERNATIONAL BUILDING CODE 2018 EDITION WITH GEORGIA AMENDMENTS.
 - THE INTERNATIONAL MECHANICAL CODE 2018 EDITION WITH GEORGIA AMENDMENTS.
 - THE INTERNATIONAL ENERGY CONSERVATION CODE 2015 EDITION WITH GEORGIA AMENDMENTS.
- THE MECHANICAL EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE FOLLOWING STANDARDS:
 - NFPA STANDARD 70, NATIONAL ELECTRIC CODE
 - NFPA STANDARD 90A, INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS.
 - NFPA STANDARD 101, CODE FOR SAFETY OF LIFE FROM FIRE IN BUILDINGS AND STRUCTURES.

TEST AND BALANCE:

- THE CONTRACTOR SHALL PERFORM TEST AND BALANCE ON THE AIR AND WATER DISTRIBUTION SYSTEMS.
- INSTRUMENTS USED FOR BALANCING SHALL HAVE BEEN CALIBRATED WITHIN 6 MONTHS PRIOR TO THE BALANCING OF THE SYSTEMS.
 - ALL INSTRUMENTS REQUIRED TO BALANCE THE SYSTEM SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE.
 - FINAL READINGS SHALL BE SET WITH -5% TO +10% OF DESIGN CONDITIONS.
 - ANY DEVIATIONS FROM DESIGN DATA SHALL BE EXPLAINED IN THE REPORT - POSSIBLE REASONS FOR AND SOLUTIONS TO.
 - REPORT SHALL BE SIGNED AND DATED BY BALANCE ENGINEER.
 - TEST AND BALANCE SHALL NOT BE PERFORMED UNTIL SYSTEM INSTALLATION IS COMPLETE.

HVAC PIPING:

- REFRIGERANT PIPING SHALL BE HARD DRAWN TYPE ACR SEAMLESS COPPER TUBING, ASTM B280. FITTINGS SHALL BE WROUGHT COPPER, ANSI 16-22, WITH WORKING PRESSURE OF NO LESS THAN 300 PSIG.
- CONDENSATE DRAIN PIPING AND FITTINGS SHALL BE HARD DRAWN COPPER, ASTM B88, WITH SOLDER JOINTS, ANSI B16.22.
- PIPE IDENTIFICATION BANDS SHALL BE SNAP-ON TYPE WITH CLEAR POLYESTER EXTERIOR SURFACE. BANDS SHALL INCLUDE DIRECTIONAL FLOW ARROWS AND LEGENDS. IDENTIFICATION BANDS ON PIPE OR COVERINGS 5.5" OR LESS IN DIAMETER SHALL BE SIZED TO FIT AROUND THE PIPE AND OVERLAP SELF. PIPE IDENTIFICATION SHALL BE SET ON OR APPROVED EQUAL BAND COLOR AND LETTERING SHALL BE AS FOLLOWS: REFRIGERANT YELLOW WITH BLACK TEXT; CONDENSATE DRAIN YELLOW WITH BLACK LETTERING.

INSULATION FOR HVAC SYSTEMS:

- INSULATION FOR REFRIGERANT LINES AND CONDENSATE DRAINS SHALL BE SELF SEALING, FLEXIBLE CELLULAR, ELASTOMERIC TYPE CONFORMING TO ASTM C534, DESIGNED FOR USE ON PIPES FROM -40 °F TO 220 °F (-40 °C TO 105 °C). INSULATION SHALL HAVE A MINIMUM DENSITY OF 6 LB/CU FT AND A MAXIMUM CONDUCTIVITY OF 0.28 BTU/IN/50 FT/°F/HR. INSULATION SHALL HAVE A MAXIMUM PERMANENCE OF 0.17 LB/50 FT. ADHESIVES USED FOR CONNECTIONS SHALL BE MANUFACTURER'S STANDARD UV-PROTECTION. INSULATION SHALL BE CONTINUOUS TO UNIT. ALL JOINTS SHALL BE SEALED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. INSULATION SHALL BE 3/4" THICK. ALL REFRIGERANT PIPES LIQUID AND SUCTION SHALL BE INSULATED IN SEPERATE JACKETS. INSULATION SHALL BE ARMACELL AP/SS ARMAFLEX.
- FIBERGLASS BLANKET INSULATION ON SUPPLY, RETURN AND OUTSIDE AIR DUCTS SHALL BE FIBROUS GLASS BLANKET TYPE DESIGNED FOR USE ON SURFACES UP TO 250°F WITH A FACTORY APPLIED ALUMINUM FOIL AND KRAFT VAPOR BARRIER JACKET. INSULATION SHALL HAVE A MINIMUM DENSITY OF 1.0 LB/CU. FT. AND A MAXIMUM CONDUCTIVITY OF 0.26 BTU/IN. PER 50.FT. PER DEGREE F PER HOUR AT 75°F MEAN TEMPERATURE. INSULATION SHALL BE KNAUF DUCTWRAP OR APPROVED EQUAL. INSULATION THICKNESS SHALL BE 2".

AIR DISTRIBUTION:

- GENERAL
 - DUCTWORK SHALL BE CONSTRUCTED OF LOCK FORMING QUALITY GALVANIZED STEEL SHEETS. GALVANIZED COATING SHALL BE NOT LESS THAN 0.9 OUNCES (TOTAL FOR BOTH SIDES) PER SQUARE FOOT OF SHEET.
 - DUCTWORK SHALL BE SQUARE, RECTANGULAR, ROUND, OR FLAT OVAL, AS INDICATED ON THE DRAWINGS.
 - TURNING VANES SHALL BE INSTALLED IN ALL 90 DEGREE SQUARE AND RECTANGULAR ELBOWS AND AT OTHER LOCATIONS SHOWN ON THE DRAWINGS. IN ANY SUPPLY, RETURN OR EXHAUST AIR DUCTWORK WITH VELOCITIES OF 1800 FPM OR HIGHER, THE TURNING VANES SHALL BE THE DOUBLE THICKNESS TYPE, WITH VANES WELDED TO THE RUNNERS AND RUNNERS WELDED TO THE DUCT.
 - DUCTWORK SHALL BE CLASSIFIED AND CONSTRUCTED IN THE FOLLOWING SMACNA PRESSURE CLASSES, OR 150% OF THE SCHEDULED FAN S.P., WHICHEVER IS GREATER:

SYSTEM OR ZONE	PRESSURE CLASS
SUPPLY AIR DUCTWORK (GENERAL BUILDING)	+ 2
RETURN DUCTWORK (GENERAL BUILDING)	- 2
EXHAUST DUCTWORK (GENERAL BUILDING)	- 2

- GALVANIZED STEEL DUCTWORK
 - EXCEPT WHERE INDICATED OTHERWISE DUCT CONSTRUCTION SHALL CONFORM TO THE RECOMMENDATIONS OF THE SMACNA HVAC DUCT CONSTRUCTION MANUAL FOR PRESSURE CLASSES SPECIFIED HEREIN BEFORE.

- FLEXIBLE DUCTWORK
 - INSULATED FLEXIBLE DUCT SHALL BE CLASS 1 AIR DUCT IN ACCORDANCE WITH UL 181 AND SHALL COMPLY WITH NFPA 90A AND 90B. INSULATED FLEXIBLE DUCT SHALL CONSIST OF AN INNER FILM LAYER FOR MINIMUM WORKING PRESSURE OF 6" WG, BONDED TO A STEEL OR ALUMINUM SPRING WIRE HELIX, FIBERGLASS INSULATION, AND A VAPOR BARRIER JACKET. INSULATION SHALL HAVE A MAXIMUM C-VALUE OF 0.23 BTU/HR/50. FT./DEGREE F. AT 75 DEGREES F. MEAN TEMPERATURE. VAPOR BARRIER JACKET SHALL HAVE A MAXIMUM VAPOR TRANSMISSION RATE OF 0.1 GRAINS/SQ. FT./HR/INCH HG (PERM). THE ASSEMBLY SHALL HAVE A MAXIMUM FLAME AND SMOKE RATING OF 1/2" PER ASTM E84 AND NFPA 255. MINIMUM WORKING PRESSURE FOR DUCT PRESSURE CLASS 4" AND BELOW SHALL BE 6" WG. INSULATED FLEXIBLE DUCT SHALL BE THERMOFLEX OR APPROVED EQUAL.

AIR DEVICES:

- TYPE 'A' SHALL BE TITUS PSS-AA OR APPROVED EQUAL. PROVIDE WITH OPPOSED BLADE DAMPER AND INSULATED BACK PAN. PRICE AND KRUGER ARE AN APPROVED EQUAL.
- TYPE 'B' SHALL BE TITUS PAR-AA OR APPROVED EQUAL. PROVIDE WITH OPPOSED BLADE DAMPER. PRICE AND KRUGER ARE AN APPROVED EQUAL.
- TYPE 'C' SHALL BE TITUS 350F OR APPROVED EQUAL. PROVIDE WITH OPPOSED BLADE DAMPER. PRICE AND KRUGER ARE AN APPROVED EQUAL.
- TYPE 'D' SHALL BE TITUS 300F OR APPROVED EQUAL. PROVIDE WITH OPPOSED BLADE DAMPER. PRICE AND KRUGER ARE AN APPROVED EQUAL.
- TYPE 'E' SHALL BE TITUS TDC OR APPROVED EQUAL. PROVIDE WITH OPPOSED BLADE DAMPER AND INSULATED BACK PAN. PRICE AND KRUGER ARE AN APPROVED EQUAL.

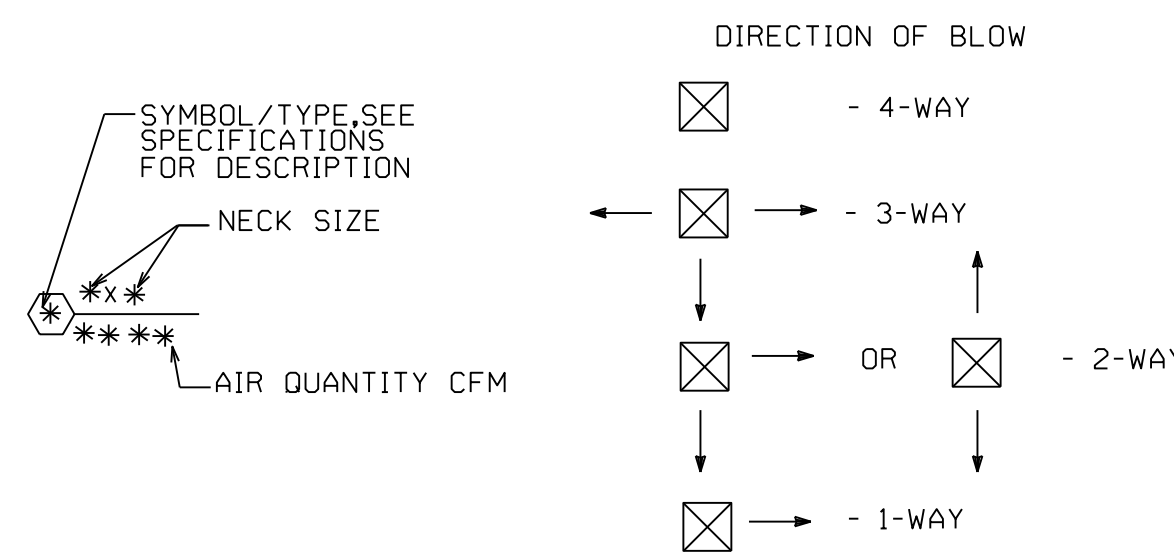
SPLIT SYSTEM HEAT PUMP:

- SYSTEM SHALL BE CARRIER MODEL FV4C/25HC OR APPROVED EQUAL. AIR HANDLER SHALL BE PROVIDED WITH SINGLE POWER POINT CONNECTION, STANDARD FILTER RACK KIT, CONDENSATE DRAIN TRAP KIT, AND WALL MOUNTED PROGRAMMABLE THERMOSTAT. HEAT PUMP SHALL BE PROVIDED WITH COATED COILS FOR COASTAL AREAS.

EXHAUST FANS:

- FANS SHALL BE GREENHECK MODEL CSP OR APPROVED EQUAL. FAN SHALL BE PROVIDED WITH DISCONNECT, GRILLE, MOUNTING BRACKETS AND EAVE VENT DISCHARGE. FANS SHALL BE INTERLOCKED WITH LIGHTS IN THE ROOM. COORDINATE WITH ELECTRICAL.

AIR DISTRIBUTION DEVICES				
SYMBOL	LOCATION	FUNCTION	TYPE	SURFACE TYPE
A	CEILING	SUPPLY	PERFORATED REGISTER	LAY-IN
B	CEILING	RETURN	PERFORATED REGISTER	LAY-IN
C	CEILING	EXHAUST	LOUVERED FACE	SURFACE MNT
D	CEILING	SUPPLY	LOUVERED FACE	SURFACE MNT
E	CEILING	SUPPLY	LOUVERED FACE	SURFACE MNT
*	EXISTING	EXISTING	EXISTING	EXISTING



EXHAUST FANS				
SYMBOL	EF-1	EF-2	EF-3	EF-4
TYPE	CEILING INLINE	CEILING INLINE	CEILING INLINE	CEILING INLINE
CFM	50	75	75	75
EXTERNAL STATIC PRESSURE, IN. H ₂ O	0.375	0.375	0.375	0.375
MAXIMUM SONES	0.4	0.4	0.4	0.4
MAXIMUM FAN SPEED, RPM	---	---	---	---
MAXIMUM TIP SPEED, FPM	---	---	---	---
MAXIMUM OUTLET VELOCITY, FPM	---	---	---	---
MAXIMUM MOTOR WATTS	17	46	46	46
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT
LOCATION	UTILITY ROOM	WOMEN	MEN	TLT
ELECTRICAL CHARACTERISTICS	SEE ELEC DWGS	SEE ELEC DWGS	SEE ELEC DWGS	SEE ELEC DWGS
REMARKS				

HEAT PUMPS												
SYMBOL	AHU-1 / HP-1	AHU-2 / HP-2	AHU-3 / HP-3	AHU-4 / HP-4	AHU-5 / HP-5	AHU-6 / HP-6	AHU-7 / HP-7	AHU-9 / HP-9	AHU-10 / HP-10	AHU-11 / HP-11	AHU-12 / HP-12	
TYPE	EXISTING	EXISTING	EXISTING	EXISTING	HORIZONTAL	EXISTING	EXISTING	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	
TOTAL CFM	900	525	1225	1400	1350	1900	1900	950	1100	690	1650	
MINIMUM OUTSIDE AIR, CFM	60	0	180	145	150	180	180	85	90	60	135	
EXTERNAL STATIC PRESSURE, IN. H ₂ O	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
COOLING	TOTAL CAPACITY, BTU/HR	23,500	11,610	40,070	41,180	41,300	54,670	54,670	25,800	29,300	18,420	45,350
	SENSIBLE CAPACITY, BTU/HR	20,410	10,610	27,560	32,670	31,100	45,380	45,380	20,700	24,480	14,830	37,400
	ENT. AIR DB, °F	76.3	75.0	76.1	75.7	76.3	76.8	76.8	76.1	75.6	75.0	75.7
	ENT. AIR WB, °F	63.9	62.5	64.8	64.1	64.1	64.4	64.4	63.9	63.3	63.2	63.4
	MINIMUM SUCTION TEMP., °F	---	---	---	---	---	---	---	---	---	---	---
HEATING	COND. AMBIENT TEMP., °F	95	95	95	95	95	95	95	95	95	95	95
	MINIMUM SEASONAL EER	EXISTING	EXISTING	EXISTING	EXISTING	14	EXISTING	EXISTING	14	14	14	14
	TOTAL CAPACITY BTU/HR	18,100	9500	24,850	24,850	29,160	41,000	41,000	19,600	22,300	14,160	33,440
	ENT. AIR DB, °F	66.9	70	63.2	65.2	64.9	65.6	65.6	65.9	66.2	66.0	66.2
	LVC. AIR DB, °F	85.5	86.8	82.0	81.6	85.0	85.6	85.6	85.0	85.0	85.0	85.0
AUX. HEAT	AMBIENT AIR TEMP., °F	24	24	24	24	24	EXISTING	24	24	24	24	24
	MINIMUM COP	EXISTING	EXISTING	EXISTING	EXISTING	3.7	EXISTING	EXISTING	3.7	3.7	3.7	3.7
	CAPACITY, KW	3.6	3.6	3.6	3.6	5.0	5.8	5.8	3.6	3.6	3.6	5.0
NO. OF STAGES	1	1	1	1	1	1	1	1	1	1	1	
LOCATION	ATTIC	ATTIC	ATTIC	ATTIC	ATTIC	ATTIC	ATTIC	SECOND FLOOR	SECOND FLOOR	SECOND FLOOR	SECOND FLOOR	
ELECTRICAL CHARACTERISTICS	SEE ELEC DWGS	SEE ELEC DWGS	SEE ELEC DWGS	SEE ELEC DWGS	SEE ELEC DWGS	SEE ELEC DWGS	SEE ELEC DWGS	SEE ELEC DWGS	SEE ELEC DWGS	SEE ELEC DWGS	SEE ELEC DWGS	
REMARKS	①	①	①	①	②	①	①	③	③	③	③	

- EXISTING UNIT TO REMAIN. INFORMATION SHOWN FOR REBALANCING PURPOSES ONLY.
- EXISTING UNIT TO BE REPLACED.
- NEW UNIT FOR SECOND FLOOR.

ALTERATIONS/ RENOVATION TO
EFFINGHAM COUNTY
ADMINISTRATION BUILDING
 SPRINGFIELD, GEORGIA
 SCHEDULES AND SPECIFICATIONS- HVAC

REVISIONS

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ALTERATIONS/ RENOVATION TO
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ADMINISTRATION BUILDING
SPRINGFIELD, GEORGIA

SOUTH BUILDING -
DEMOLITION PLANS -
HVAC

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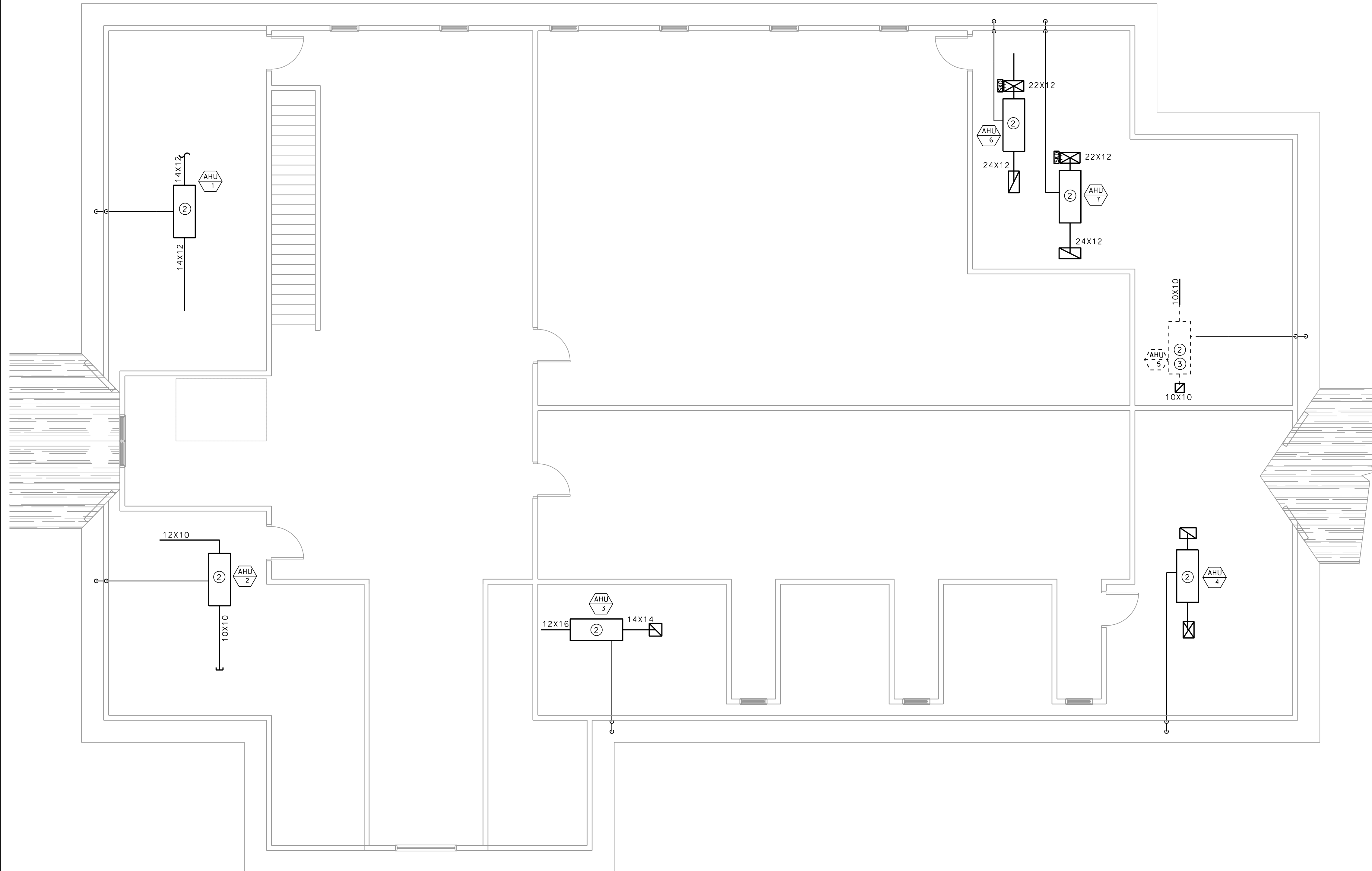


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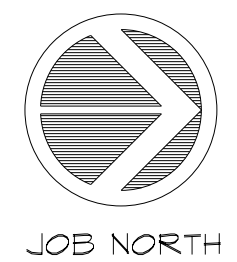
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M1.2

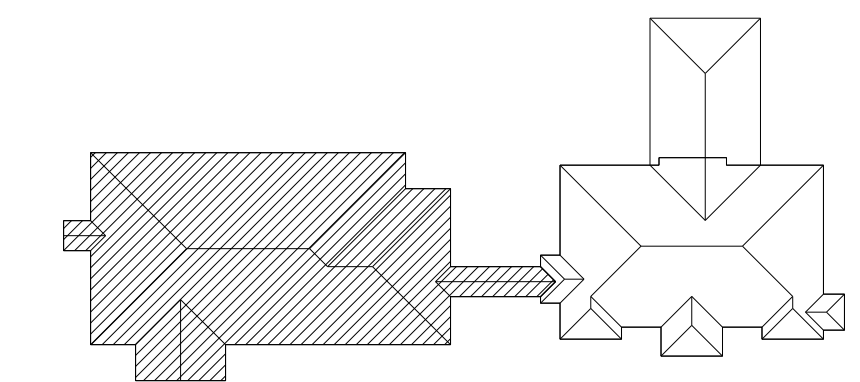
- ① --- TYPICAL TO BE REMOVED
— TYPICAL EXISTING TO REMAIN
- ② UNIT SERVES FIRST FLOOR. SEE M1.1 FOR DUCTWORK BELOW.
- ③ UNIT TO BE REPLACED. REMOVE REFRIGERANT LINES. SEE NEW PLAN FOR REUSING CONDENSATE DRAIN AND DUCTWORK.



② MI.2 NOTES
SCALE: NTS



JOB NORTH



③ MI.2 KEY PLAN
SCALE: NTS

① MI.2 DEMOLITION FLOOR PLAN - HVAC
SCALE: 3/16" = 1'-0"

- ① ---- TYPICAL TO BE REMOVED
—— TYPICAL EXISTING TO REMAIN
- ② RELOCATE EXISTING THERMOSTAT. SEE M1.6 FOR NEW WORK.
- ③ RELOCATE EXISTING AIR DEVICE FOR NEW LAYOUT.
- ④ CUT, CAP AND INSULATE TO MATCH EXISTING.



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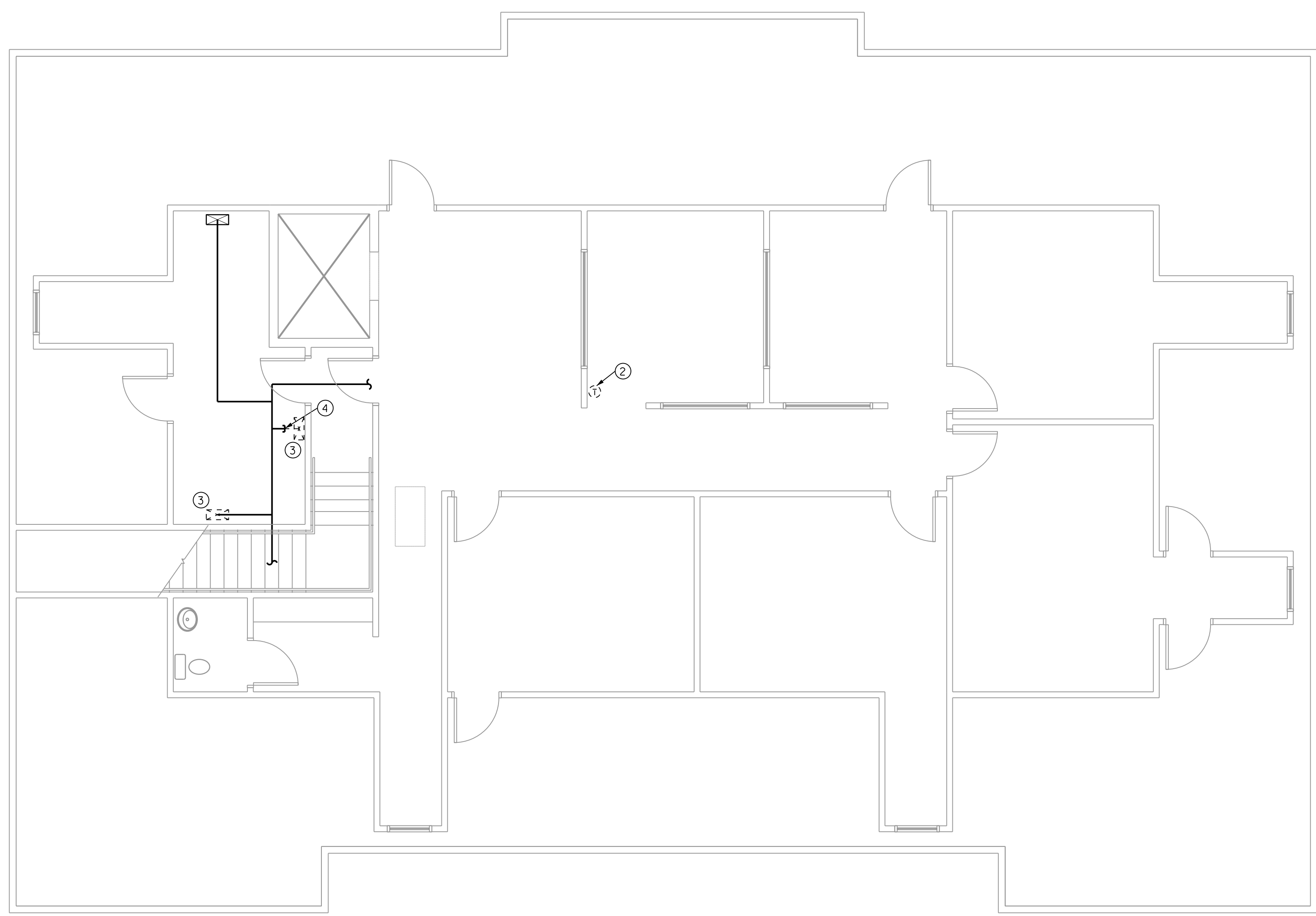
NORTH BUILDING
 DEMOLITION PLANS -
 HVAC

REVISIONS

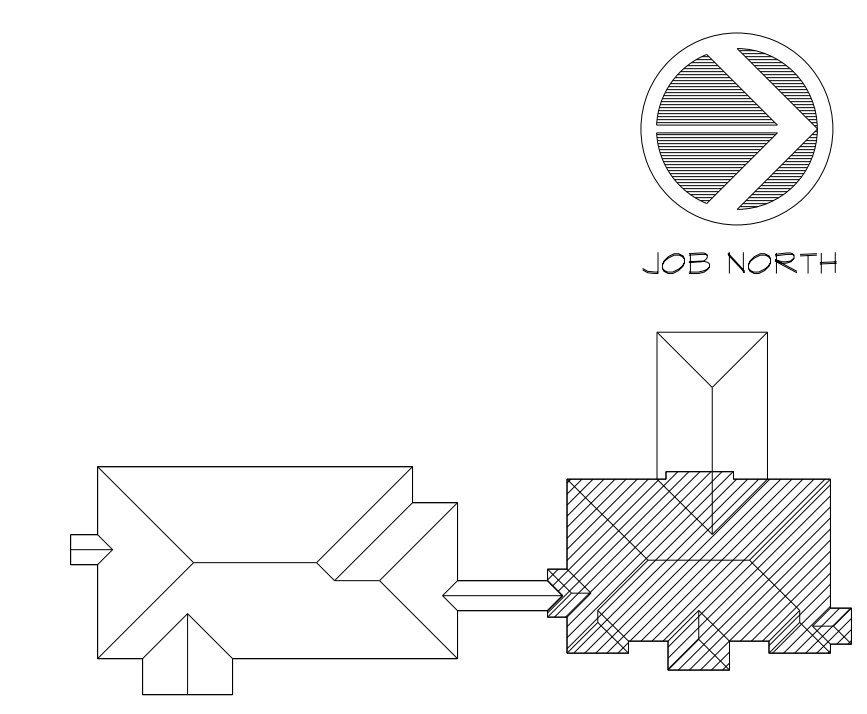
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②
M1.3
NOTES
SCALE: NTS



③
M1.3
KEY PLAN
SCALE: NTS



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M1.3

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①
M1.3
DEMOLITION FLOOR PLAN - HVAC
SCALE: 3/16"=1'-0"



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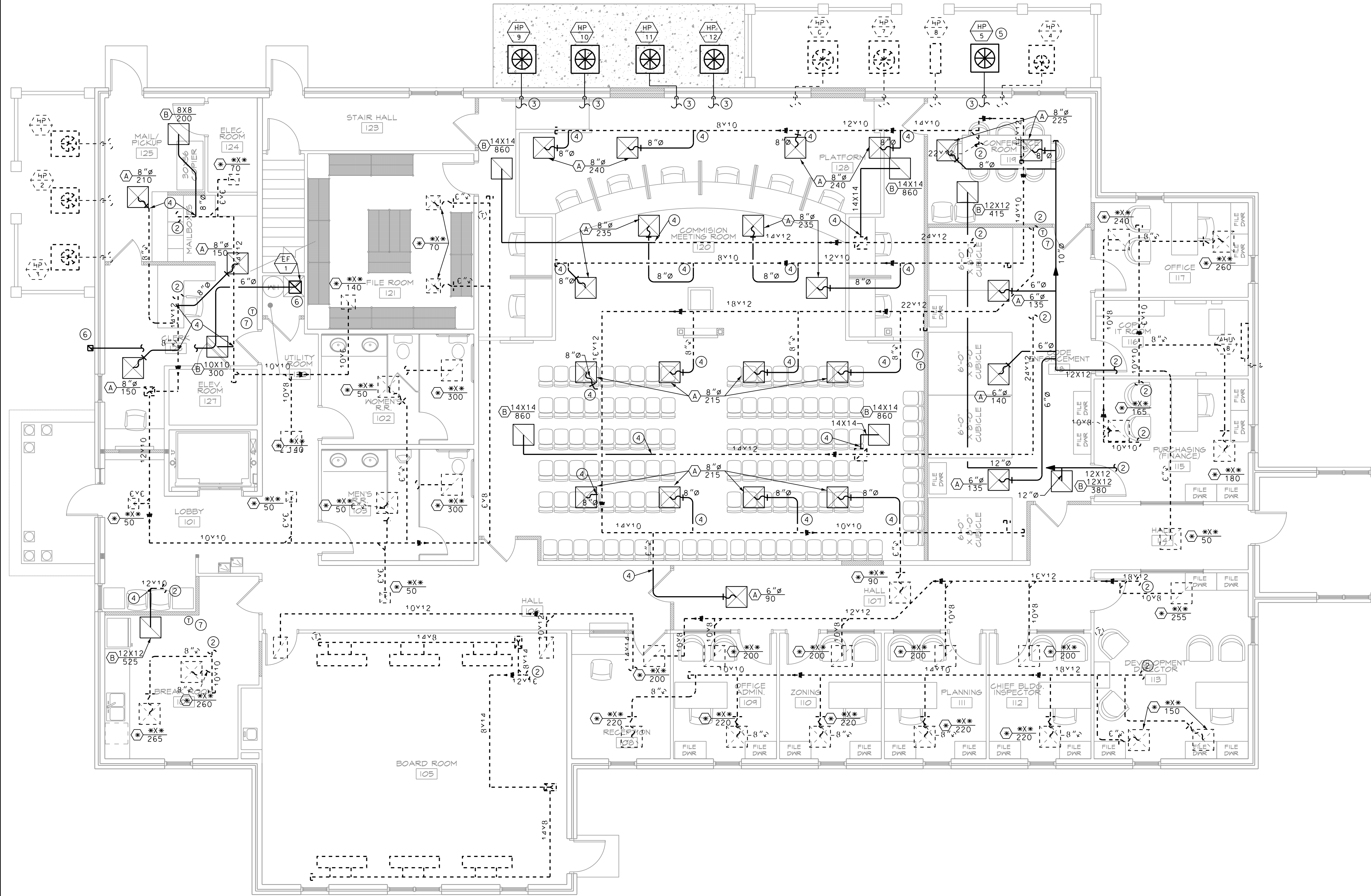
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ADMINISTRATION BUILDING**
SPRINGFIELD, GEORGIA

**SOUTH BUILDING
FIRST FLOOR PLAN -
HVAC**

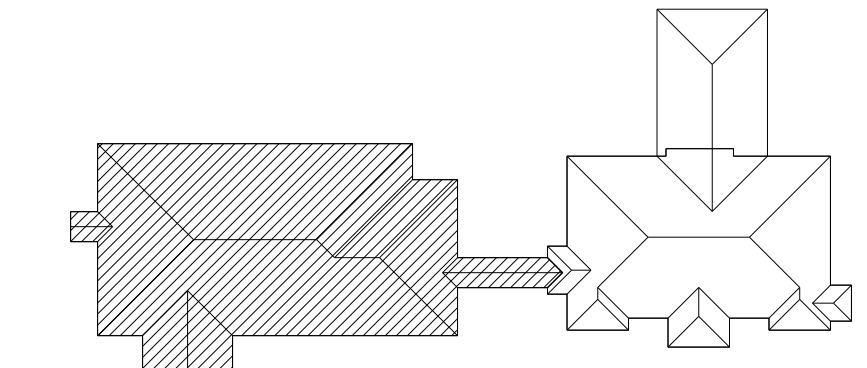
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- 1 TYPICAL NEW WORK
--- TYPICAL EXISTING TO REMAIN
- 2 FOR CONTINUATION OF DUCTS TO SECOND FLOOR SEE M1.5
- 3 ROUTE REFRIGERANT LINES TO MATCHING AIR HANDLING UNIT. SEE M1.5 FOR UNIT LOCATION.
- 4 CONNECT TO EXISTING
- 5 EXISTING UNIT REPLACED WITH NEW. ROUTE NEW REFRIGERANT LINES.
- 6 EXHAUST DUCT TO EAVE VENT PROVIDED WITH FAN.
- 7 RELOCATED THERMOSTAT. CLEAN AND RECALIBRATE.
- 8 AIR FLOW NOTED FOR EXISTING AIR DEVICES FOR TEST AND BALANCE PURPOSES.



2 M.I. NOTES
SCALE: NTS



3 M.I. KEY PLAN
SCALE: NTS



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M1.4

CADD PLOT
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15:23
mpeaver

1 M.I. FIRST FLOOR PLAN - HVAC
SCALE: 3/16"=1'-0"



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**SOUTH BUILDING
SECOND FLOOR PLAN
- HVAC**

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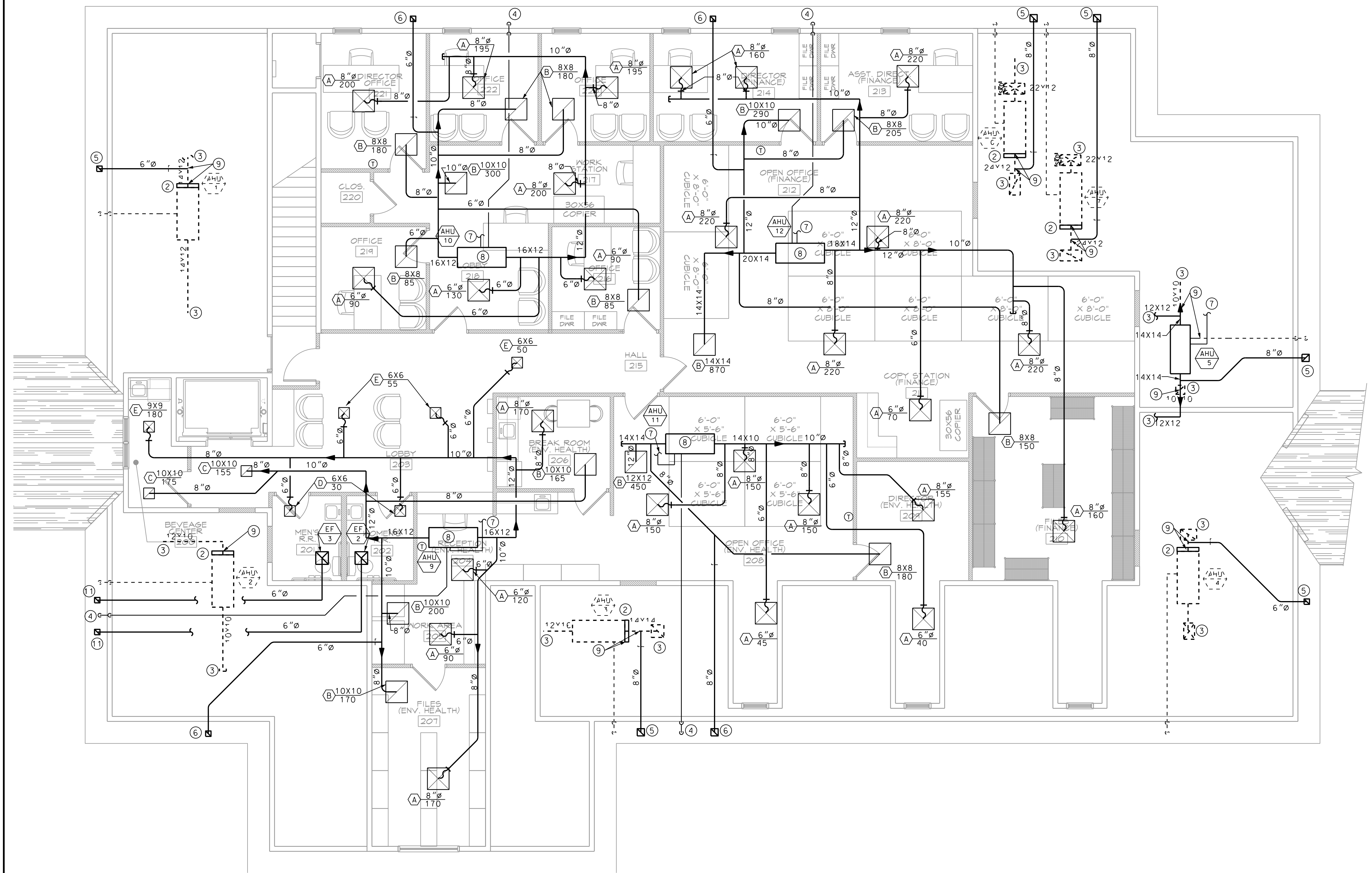
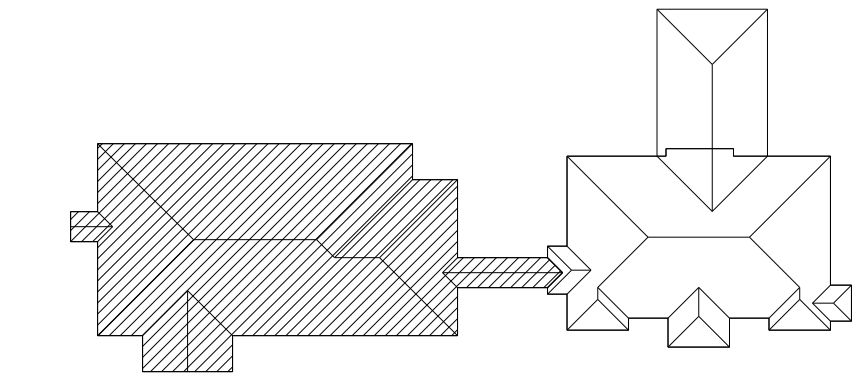
M1.5

- 1 TYPICAL NEW WORK
---- TYPICAL EXISTING TO REMAIN
- 2 INSTALL FILTER RACKS ON THE RETURN OF ALL EXISTING UNITS.
- 3 FOR CONTINUATION OF DUCTS TO FIRST FLOOR SEE M1.4
- 4 CONDENSATE DRAIN FULL SIZE OF CONNECTION AT UNIT. INSTALL P-TRAP IN LINE. ROUTE LINE TO EXTERIOR OF BUILDING AND TURN DOWN TO DRIP ON GROUND OUTSIDE. COORDINATE EXACT LOCATION OF DRAIN WITH WINDOWS. PAINT PIPE OUTSIDE TO MATCH BUILDING.
- 5 OUTSIDE AIR DUCTS ADDED TO EXISTING UNITS. PROVIDE AND INSTALL EAVE VENT TO MATCH DUCT SIZE. ROUTE OUTSIDE AIR DUCT TO RETURN DUCT AS SHOWN.
- 6 OUTSIDE AIR DUCTS FOR NEW UNITS. PROVIDE AND INSTALL EAVE VENT TO MATCH DUCT SIZE. ROUTE OUTSIDE AIR DUCT TO RETURN DUCT AS SHOWN.
- 7 ROUTE REFRIGERANT LINES TO MATCHING HEAT PUMP OUTSIDE. SEE M1.4 FOR UNIT LOCATION.
- 8 UNIT LOCATED ABOVE CEILING. COORDINATE EXACT LOCATION WITH STRUCTURE. MOUNT UNIT IN INSULATED AUXILIARY DRAIN PAN. ELEVATE UNIT IN PAN AS REQUIRED FOR COIL PULL CLEARANCE. PROVIDE AND INSTALL FLOAT SWITCH IN AUXILIARY DRAIN PAN AND PROVIDE PAN WITH CAPPED DRAIN CONNECTION. UPON ACTIVATION, FLOAT SWITCH SHALL DE-ENERGIZE UNIT. MOUNT AUXILIARY DRAIN PAN ON TOP OF NEOPRENE VIBRATION ISOLATION PAD. SUPPORT UNIT AND DRAIN PAN FROM STRUCTURE.
- 9 CONNECT TO EXISTING
- 10 EXISTING UNIT REPLACED WITH NEW. ROUTE NEW REFRIGERANT LINES. REUSE CONDENSATE DRAIN. MODIFY DUCTS AS SHOWN.
- 11 EXHAUST DUCT TO EAVE VENT PROVIDED WITH FAN.

2 M1.1 NOTES
SCALE: NTS



3 M1.1 KEY PLAN
SCALE: NTS



CADD PLOT
14 AUG 2020
15:25
mpeavler

1 M1.5 SECOND FLOOR PLAN - HVAC
SCALE: 3/16" = 1'-0"



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ALTERATIONS/ RENOVATION TO
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NORTH BUILDING
FLOOR PLAN - HVAC

REVISIONS

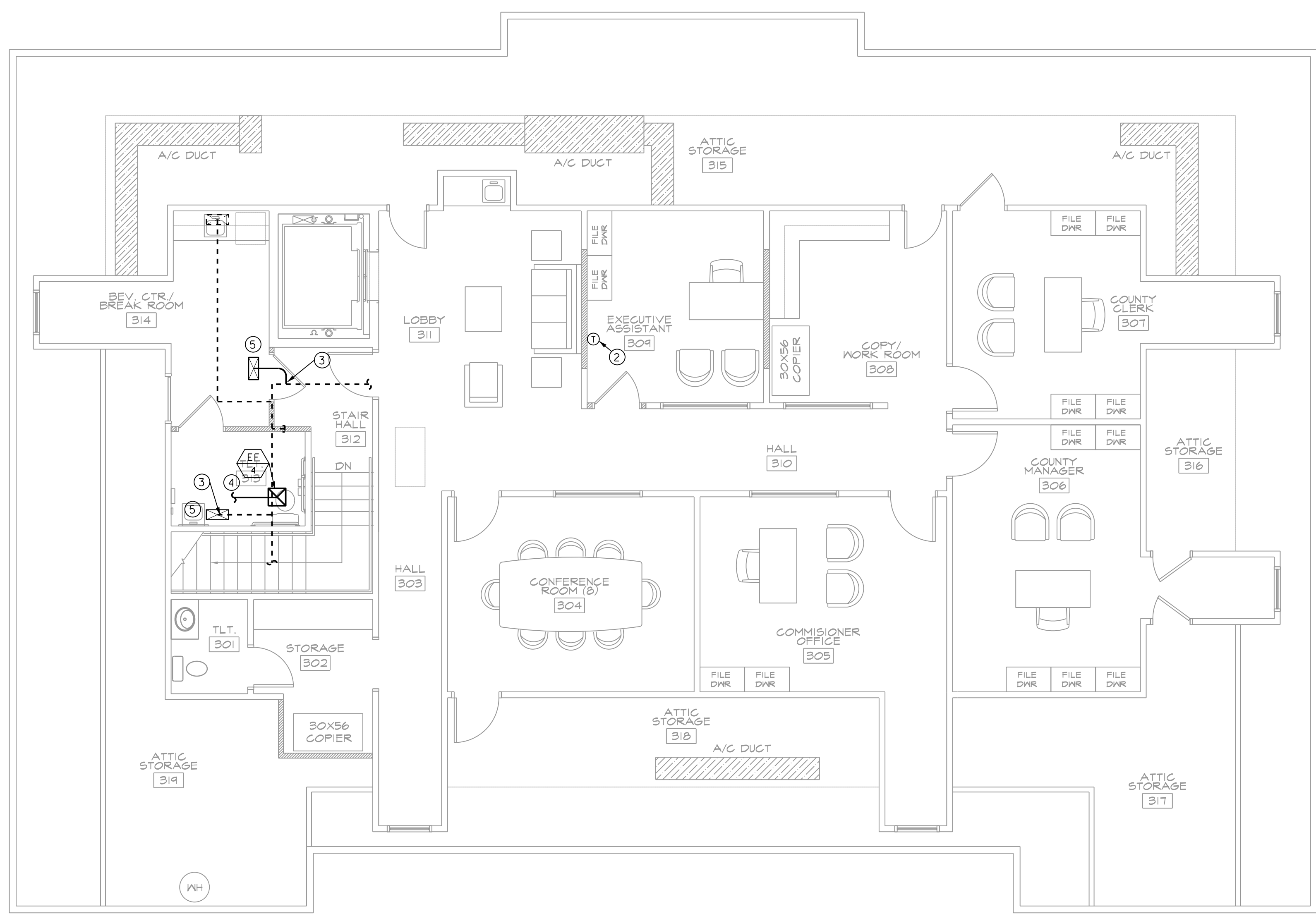
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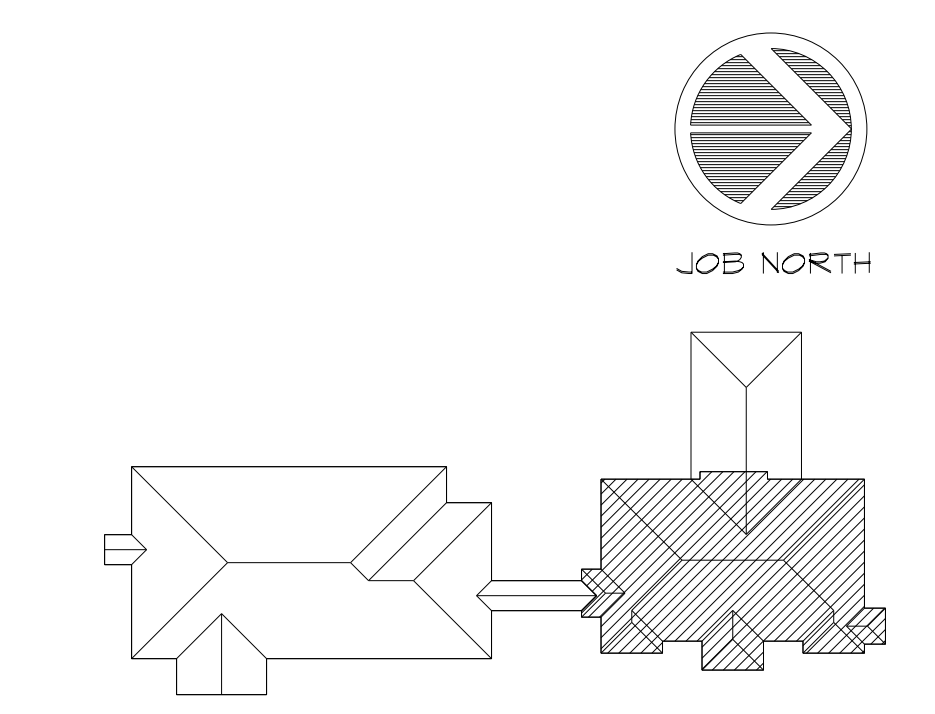
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M1.6

- TYPICAL NEW WORK
- TYPICAL EXISTING TO REMAIN
- RELOCATED THERMOSTAT
- CONNECT TO EXISTING
- ROUTE 6" EXHAUST DUCT FROM FAN TO NEAREST EAVE. EAVE VENT PROVIDED WITH FAN.
- RELOCATED AIR DEVICE.



2
M1.6
NOTES
SCALE: NTS



3
M1.6
KEY PLAN
SCALE: NTS

CADD PLOT
14 AUG 2020
15:26
mpeover

1
M1.6
FLOOR PLAN - HVAC
SCALE: 3/16" = 1'-0"

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	A-1,3,5 ADJACENT TO ARROW INDICATES HOME-RUN OF CIRCUITS 1,3,5 TO PANEL A. 3,5 OR A-3,5 ADJACENT TO ARROW INDICATES CIRCUIT CONTINUATION. MARKS ACROSS RACEWAY RUNS INDICATE THE NUMBER OF NO. 12 CONDUCTORS. UNLESS NOTED, NO MARKS INDICATES TWO NO. 12 CONDUCTORS. EQUIPMENT GROUNDING CONDUCTORS ARE NOT SHOWN, SEE GENERAL NOTES. IF INDICATED ADJACENT TO OUTLET, NUMERAL AND LOWER CASE LETTER INDICATES CIRCUIT CONNECTION AND SWITCHLEG DESIGNATION RESPECTIVELY. TYPE B OR CAPITAL LETTER B INDICATES LIGHT FIXTURE TYPE. UNLESS NOTED, DIMENSIONS INDICATED IN LEGEND AND ON PLANS ARE TO BOTTOM OF OUTLET OR DEVICE. ALL SYMBOLS INDICATED HEREIN MAY NOT NECESSARILY BE USED ON THE PLANS.		PANELBOARD, FLUSH MOUNTED
			COMMUNICATION BACKBOARD, 3/4"X 4'X 8' UNLESS NOTED
			MOTOR, HORSEPOWER AS INDICATED
			FUSIBLE DISCONNECT SWITCH, RATING/POLES/ENCLOSURE, FUSES AS INDICATED
			RACEWAY INSTALLED EXPOSED
			CONDUIT STUB-UP AND HOMERUN
			CONDUIT TERMINATION, STUB-OUT
			FIRE ALARM CONTROL PANEL
			SPRINKLER SYSTEM WATER FLOW FIRE ALARM SWITCH
			FIRE ALARM MANUAL PULL STATION - MT. 42" MINIMUM TO 48" MAXIMUM TO MANUAL ACTIVATED DEVICE HANDLE.
			FIRE ALARM VISUAL SIGNAL - WALL MOUNTED. CD = CANDELA RATING.
			FIRE ALARM AUDIBLE AND VISUAL SIGNAL DEVICE - CEILING MOUNTED. CD = CANDELA RATING.
			FIRE ALARM VOICE EVAC SPEAKER AND VISUAL DEVICE - WALL MOUNTED, CD = CANDELA RATING.
			FIRE ALARM VOICE EVAC SPEAKER - CEILING MOUNTED.
			FIRE ALARM DIGITAL ALARM COMMUNICATOR TRANSMITTER
			THERMAL DETECTOR, CEILING MOUNTED
			AIR DUCT SMOKE DETECTOR
			SMOKE DETECTOR REMOTE STATUS DISPLAY AND TEST SWITCH
			MAGNETIC DOOR HOLDER, FLOOR MOUNTED

ABBREVIATIONS

A OR AMP	AMPERES
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
AM	AMMETER
AS	AMMETER SELECTOR SWITCH
ASYM	ASYMMETRICAL
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLF	CURRENT LIMITING FUSE
CNTL	CONTROL
CT	CURRENT TRANSFORMER
D	DEPTH
DISC	DISCONNECT SWITCH
DISC SW	DISCONNECT SWITCH
ER	EXISTING RELOCATED
ETR	EXISTING TO REMAIN
EXP	EXPLOSION PROOF
F	FUSE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FMPX	FIRE ALARM MULTIPLEX PANEL
G OR GND	GROUND
H	HEIGHT
HP	HORSEPOWER
JB OR J	JUNCTION BOX
KVA	KILOVOLT - AMPS
KW	KILOWATTS
L	LENGTH
LA	LIGHTNING ARRESTOR
MCB OR MB	MAIN CIRCUIT BREAKER
MH OR MTG	MOUNTING HEIGHT
MLO	MAIN LUGS ONLY
MT OR MTD	MOUNT OR MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOC.
NTS	NOT TO SCALE
P	POLE
PNL	PANELBOARD
RECEPT	RECEPTACLE
RMS	ROOT MEAN SQUARE
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
TBB	TELEPHONE BACKBOARD
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VM	VOLTMETER
VS	VOLTMETER SELECTOR SWITCH
W	WIDTH
W/	WITH
WHDM	WATT HOUR DEMAND METER
WM	WATTMETER
WP	WEATHER PROOF
XFMR	TRANSFORMER



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GENERAL NOTES: (APPLICABLE TO ALL DRAWINGS)

- G1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF FIXTURES AND OTHER CEILING MOUNTED DEVICES. LIGHTS, SPRINKLER HEADS, SMOKE DETECTORS, DIFFUSERS AND CEILING SPEAKERS IN THAT ORDER TAKE PRECEDENCE OVER ONE ANOTHER. COORDINATE WITH ALL DISCIPLINES INVOLVED.
- G2. WHEN CONDUCTOR SIZE IS INDICATED FOR BRANCH CIRCUIT HOME RUN, THE CONDUCTOR SIZE INDICATED SHALL BE USED FOR THE COMPLETE CIRCUIT.
- G3. ALL WATER COOLERS SHALL BE WALL MOUNTED WITH ELECTRICAL CONNECTIONS MADE FROM JUNCTION BOX FOR ACCESSIBILITY FROM WITHIN COOLER HOUSING. BRANCH CIRCUIT BREAKER SERVING COOLERS SHALL BE GROUND FAULT CIRCUIT INTERRUPTER TYPE.
- G4. REFER TO MECHANICAL SYSTEM DRAWINGS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL SERVICE.
- G5. WHERE FIXTURE TYPE DESIGNATION IS INDICATED ADJACENT TO ONE FIXTURE IN A CONTINUOUS ROW, ALL FIXTURES IN THE ROW ARE TO BE THE SAME TYPE, UNLESS OTHERWISE INDICATED.
- G6. ARROWHEAD OF PANELBOARD DESIGNATION ON DRAWINGS INDICATES FACE OF FLUSH MOUNTED PANELBOARD.
- G7. EQUIPMENT GROUNDING CONDUCTORS SHALL BE PROVIDED FOR ALL BRANCH AND FEEDER CIRCUITS.
- G8. JUNCTION BOXES INSTALLED WITHIN FINISHED SPACES SHALL BE FLUSH MOUNTED WITH BLANK DEVICE PLATE. IDENTIFY USE ON INSIDE OF BOX. JUNCTION BOXES SHALL NOT BE INSTALLED ABOVE NONACCESSIBLE CEILINGS.
- G9. THE LOCATION AND MOUNTING HEIGHTS OF DEVICES AND OUTLETS INDICATED ON THE ELECTRICAL PLANS ARE SCHEMATIC. INTENDED ONLY TO CONVEY THE APPROXIMATE LOCATION. THE ACTUAL LOCATION AND MOUNTING HEIGHTS SHALL BE COORDINATED WITH THE ARCHITECTURAL INTERIOR ELEVATIONS.
- G10. PROVIDE A NYLON PULL CORD IN ALL EMPTY CONDUITS 1/2" & 3/4" IN DIAMETER. PROVIDE A GALVANIZED PULL WIRE IN ALL EMPTY CONDUITS 1" AND LARGER. DEADEND RUNS SHALL BE TERMINATED WITH INSULATED BUSHINGS AND SHALL BE CAPPED. ADDITIONALLY, DEADENDS SHALL BE LABELLED TO INDICATE SYSTEM AND LOCATION OF OPPOSITE END. LABEL CONDUITS WITH THOMAS & BETTS NYLON TYPE I.D. TIES AND BLACK MARKER PEN SPECIFICALLY INTENDED FOR SUCH USE.
- G11. HOLD CONCEALED CONDUITS AS TIGHT TO THE STRUCTURE AS POSSIBLE AND ABOVE DUCTWORK AND PIPING. ALL CONDUITS SHALL BE RUN PARALLEL OR PERPENDICULAR TO THE BUILDING STRUCTURE. WHERE LB OR SIMILAR FITTINGS ARE USED FOR PULL POINTS, SUCH FITTINGS SHALL BE READILY ACCESSIBLE AND SHALL NOT CONTAIN SPLICES AND SHALL BE SIZED PER NEC. COORDINATE THE LOCATIONS OF THESE FITTINGS WITH OTHER TRADES SO THEY ARE NOT COVERED BY DUCTWORK OR PIPING.
- G12. CONDUITS ENTERING SURFACE MOUNTED PANELS SHALL BE GROUPED AND SECURED TO LIGHTWEIGHT CHANNEL WITH INDIVIDUAL CLAMPS.
- G13. ALL RACEWAY-PENETRATIONS IN RATED WALLS AND FLOORS SHALL BE MADE IN ACCORDANCE WITH THE U.L. FIRE RESISTANCE DIRECTORY FOR THROUGH-PENETRATION FIRESTOP SYSTEMS OR DEVICES. THE FIRESTOP SYSTEM OR DEVICE SELECTED SHALL BE BASED ON CONSTRUCTION TYPE, PENETRANT TYPE AND FLOOR, WALL OR CEILING RATING. ALL MATERIALS SHALL BE UL LISTED. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE LOCATION OF RATED WALL AND FLOORS. ALL FIRE-STOPPING MATERIAL SHALL BE 3M TO MEET STANDARDS.
- G14. OPENINGS IN NON-RATED WALLS AND FLOORS SHALL BE ROUND, SQUARE OR RECTANGULAR. IRREGULAR OPENINGS ARE NOT ACCEPTABLE. SEAL BOTH SIDES OF OPENINGS IN A NEAT MANNER. USE JOINT COMPOUND FOR WALLS AND LIGHTWEIGHT CONCRETE FOR FLOORS. WIPE RACEWAYS CLEAN AND SMOOTH FILLER TO TROWEL FINISH.
- G15. ALL F.A. VISUAL ALARM STROBES SHALL BE SYNCHRONIZED.
- G16. ALL F.A. VISUAL ALARM NOTIFICATION APPLIANCES SHALL COMPLY WITH ADAAG, NFPA72, ANSI 117.1 AND UL 1971.
- G17. FURNISH AND INSTALL F.A. STROBE ILLUMINANCE REQUIRED TO COVER AREA AND SPACING IN WHICH STROBES ARE INSTALLED TO MEET WALL LOCATIONS. STROBE LOCATIONS INDICATED ON PLAN SHEETS ARE BASED ON 75 CD RATINGS. ADDITIONAL STROBES SHALL BE INSTALLED AS REQUIRED BY FIRE ALARM MANUFACTURER. LOCATIONS SHOWN ON PLANS MAY BE MODIFIED TO COVER AREAS AS RECOMMENDED BY THE FIRE ALARM MANUFACTURER. IDENTIFY CANDELA RATING OF EACH STROBE ON FLOOR PLANS SUBMITTED WITH SHOP DRAWINGS. LOCATE ADJACENT TO EACH STROBE DEVICE.
- G18. MAXIMUM SPACING BETWEEN F.A. STROBES IN CORRIDORS SHALL NOT EXCEED 100 FEET. LOCATE STROBES WITHIN 15 FEET OF THE END OF EACH CORRIDOR.
- G19. LOCATE HEAT AND SMOKE DETECTORS ON THE CEILING 12" FROM SIDEWALLS, AND WITHIN 15' OF SIDEWALLS AND WITHIN 21' OF CORNERS; AND ON THE SIDEWALLS 12" FROM THE CEILING AS A MAXIMUM AND 4" FROM THE CEILING AS A MINIMUM.
- G20. DO NOT LOCATE SMOKE DETECTORS NEAR HVAC SUPPLY OR RETURN REGISTERS. PROVIDE 3'-0" SEPARATION AS A MINIMUM.
- G21. FIRE ALARM PULL STATIONS SHALL BE RED THROUGH OUT.
- G22. ALL FIRE ALARM CONDUITS SHALL BE A MINIMUM OF 3/4".
- G23. WALL MOUNT STROBES 80" MINIMUM TO BOTTOM AND 96" MAXIMUM TO TOP OF LENS AFF. WHERE LOW CEILING HEIGHTS DO NOT PERMIT WALL MOUNTING AT A MINIMUM OF 80", WALL MOUNTED VISIBLE DEVICES SHALL BE MOUNTED WITHIN 6" OF THE CEILING.
- G24. OCCUPANCY SENSOR SWITCHES SHALL CONSIST OF THE FOLLOWING TYPES:
 - 1) SINGLE CIRCUIT (S) FOR SINGLE LEVEL SWITCHING - HUBBELL LHMTW OR WATT STOPPER OR LEVITON EQUIVALENT.
 - 2) TWO CIRCUIT (S) FOR MULTI-LEVEL SWITCHING - HUBBELL LHMTD2W OR WATT STOPPER OR LEVITON EQUIVALENT.
 - 3) RESTROOMS AND LAVS - HUBBELL LHUSRRW OR WATT STOPPER OR LEVITON EQUIVALENT.
 REFER TO PLANS FOR TYPES REQUIRED. FURNISH AND INSTALL POWER PACKS AND SLAVE UNITS AS REQUIRED FOR CIRCUITS AND SENSORS SHOWN. INTERCONNECT AS REQUIRED. COORDINATE WITH SENSOR MANUFACTURER ALL NECESSARY COMPONENTS FOR COMPLETE INSTALLATIONS.
- G25. CEILING MOUNTED OCCUPANCY SENSORS (C) SHALL CONSIST OF THE FOLLOWING:
 - 1) ALL AREAS EXCEPT CORRIDORS - HUBBELL DUAL TECH OMNID2000 OR WATT STOPPER OR LEVITON EQUIVALENT.
 - 2) CORRIDORS - HUBBELL OMNIUS2000 OR WATT STOPPER OR LEVITON EQUIVALENT. FURNISH AND INSTALL POWER PACKS AND SLAVE UNITS AS REQUIRED FOR CIRCUITS AND SENSORS SHOWN. INTERCONNECT AS REQUIRED. COORDINATE WITH SENSOR MANUFACTURER ALL NECESSARY COMPONENTS FOR COMPLETE INSTALLATION. PLACE SENSORS 4 TO 6 FEET FROM HVAC SUPPLY/RETURN REGISTERS.
- G26. WALL MOUNTED OCCUPANCY SENSORS SHALL BE HUBBELL LODT OR WATT STOPPER OR LEVITON EQUIVALENT. WALL MOUNT AT HEIGHT RECOMMENDED BY MANUFACTURER TO COVER AREAS. FURNISH AND INSTALL POWER PACKS AND SLAVE UNITS AS REQUIRED FOR CIRCUITS AND SENSORS SHOWN. INTERCONNECT AS REQUIRED. COORDINATE WITH SENSOR MANUFACTURER ALL NECESSARY COMPONENTS FOR COMPLETE INSTALLATION.
- G27. ALL EQUIPMENT SUPPORTS AND HANGERS SHALL BE COORDINATED WITH STRUCTURAL DRAWINGS TO INSURE THAT LOCATION OF SUPPORTS AND HANGERS OCCUR WITHIN 4" OF PANEL POINT.
- G28. CIRCUITS WITH GFCI RECEPTACLES SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR.
- G29. SERIES A.I.C. RATING OF CIRCUIT BREAKER COMBINATIONS ARE NOT ACCEPTABLE.
- G30. REFER TO THE APPROPRIATE DRAWINGS FOR THE EXACT LOCATION OF EQUIPMENT INSTALLED UNDER OTHER DIVISIONS REQUIRING ELECTRICAL SERVICE. PROVIDE FINAL CONNECTIONS TO EQUIPMENT.

DEMOLITION NOTES: (GENERAL)

- D1. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION WORK.
- D2. VISIT SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID. BID SHALL INCLUDE ALL REQUIRED DEMOLITION AND/OR RELOCATION OF EQUIPMENT IN RENOVATED AREAS. WHETHER SUCH WORK IS OR IS NOT INDICATED ON THE DRAWINGS.
- D3. RELOCATED EQUIPMENT AND EXISTING EQUIPMENT TO REMAIN AFTER DEMOLITION SHALL MEET THE REQUIREMENTS OF NEW CONSTRUCTION WORK.
- D4. DEMOLITION REQUIRES FIELD IDENTIFICATION OF PANELBOARDS, SWITCHES, ALL DEVICES ETC., BRANCH CIRCUITS AND THEN THE REMOVAL OF ALL SUCH CIRCUITS AND ASSOCIATED EQUIPMENT NOT REUSED. CONTRACTOR SHALL FIELD TRACE EACH BRANCH CIRCUIT TO REMAIN AND TO BE DEMOLITIONED WITH CIRCUIT TRACER. REMOVE ALL BRANCH CIRCUITS NOT REUSED BACK TO POINT OF ORIGINATION.
- D5. PATCH WALL PENETRATIONS FOR REMOVED AND RELOCATED EQUIPMENT AND RECONNECTED BRANCH CIRCUITS PASSING THROUGH EXISTING WALLS TO REMAIN.
- D6. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT IN RENOVATED AREAS UNLESS OTHERWISE NOTED TO REMAIN OR TO BE REUSED, INCLUDING LIGHTING FIXTURES (PENDANTS, SURFACE, FLUSH, ECT.), SWITCHES, RECEPTACLES, FLOOR BOXES, CONDUIT AND WIRING SYSTEMS (EXPOSED IN WALLS AND ABOVE CEILING), SURFACE RACEWAY, SURFACE AND FLUSH DEVICE BOXES, DEVICE PLATES, TELEPHONE/DATA SYSTEMS, FIRE ALARM SYSTEMS, ETC. REMOVE ALL WIRING FROM EXISTING CONCRETE ENCASED CONDUITS NOT REUSED, CAP AND ABANDON CONDUIT IN PLACE.
- D7. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS, FEEDERS, BRANCH CIRCUITS, ETC. PASSING THROUGH RENOVATED AREAS SERVING UNDISTURBED AREAS.
- D8. EXISTING CONDUIT IN PLACE, FOUND TO BE REUSABLE, MAY BE USED, ALL OTHER CONDUIT SYSTEMS SHALL BE REMOVED BACK TO POINT OF ORIGINATION.
- D9. EXISTING ELECTRICAL WORK REMAINING IN RENOVATED AREAS, AND INTERRUPTED BY NEW WORK, SHALL BE RESTORED TO ORIGINAL CONDITION. RESTORE ALL CIRCUITS INTERRUPTED BY NEW WORK.
- D10. EXISTING TELEPHONE/DATA SYSTEMS AND OTHER COMMUNICATION SIGNALING SYSTEMS OUTSIDE RENOVATED AREA SHALL NOT BE AFFECTED BY WORK PERFORMED UNDER THIS CONTRACT.
- D11. BRANCH CIRCUITS SHALL BE REMOVED FROM POINT OF ORIGINATION TO POINT OF TERMINATION. REMOVAL SHALL INCLUDE CONDUIT, CONDUCTORS, SUPPORTS, FITTINGS, JUNCTION BOXES, ETC. WHERE FEEDER IS RENDERED INACCESSIBLE, DUE TO EXISTING STRUCTURAL CONDITIONS, REMOVE CONDUCTORS ONLY. LAY-IN TYPE CEILINGS ARE CONSIDERED ACCESSIBLE. CONCRETE FLOORS AND MASONRY WALLS ARE CONSIDERED INACCESSIBLE.
- D12. MAINTAIN BRANCH CIRCUITS OUTSIDE RENOVATED AREA IN AREAS INDICATED AS "EXISTING TO REMAIN" (ETR). RECONNECT EXISTING TO NEW CIRCUITS WHERE SHOWN.
- D13. DASHED LINES (---) AND CROSSHATCHING (/////) INDICATES EXISTING TO BE REMOVED. REMOVE ALL ELECTRICAL SYSTEMS WITHIN DEMOLITION LIMITS, UNLESS NOTED OTHERWISE.

- G31. ALL WEATHERPROOF RECEPTACLES SHALL BE RATED "WEATHER RESISTANT" (WR) TYPE AND SHALL HAVE A EXTRA DUTY COVER THAT MAINTAINS THE WEATHERPROOF INTEGRITY OF THE OUTLET WITH THE ATTACHMENT PLUG GAP INSERTED OR REMOVED. COVERS SHALL BE SELF CLOSING AND SHALL HAVE A LOCKING TAB.
- G32. ALL RECEPTACLES WITHIN 6 FT OF SINKSSHALL BE GFI TYPE.
- G33. LED DIMMER SWITCHES SHALL BE COMPATIBLE WITH 1% DIMMING DRIVERS.
- G34. COORDINATE MOUNTING HEIGHT OF WALL MOUNTED TV'S WITH ARCHITECTURAL PLANS.
- G35. ALL SURFACE MOUNTED OR PENDANT MOUNTED FIXTURES LOCATED ADJACENT TO SPRINKLER HEADS SHALL BE LOCATED A MINIMUM OF 18" FROM HEADS. COORDINATE WITH SPRINKLER CONTRACTOR.
- G36. INSTALL ALL RECEPTACLES WITH GROUND ON TOP.
- G37. GROUPS OF DEVICES SHALL BE INSTALLED UNDER MULTI-GANG DEVICE PLATES UNLESS NOTED OTHERWISE.
- G38. PRIOR TO ROUGHING IN WALL MOUNTED DEVICES, REFER TO CASEWORK INTERIOR ELEVATIONS FOR DEVICE LOCATION AND ROUGH-IN ACCORDINGLY.
- G39. ROUTE ALL NEW BRANCH CIRCUITS OVERHEAD ABOVE CEILINGS AND IN WALLS. AVOID INSTALLING CONDUIT SYSTEMS IN CONCRETE FLOOR SLABS.
- G40. ALL EMPTY CONDUIT SYSTEMS SHALL BE EXTENDED TO A POINT ABOVE THE NEAREST ACCESSIBLE CEILING AND SHALL TERMINATE WITH INSULATED THROAT CONNECTOR FOR COMMUNICATION SYSTEMS.
- G41. FURNISH AND INSTALL A 4 1/2" SQUARE BOX 2 1/8" DEEP WITH A SINGLE GANG TILE TYPE COVER AND A 1" CONDUIT TO CEILING SPACE FOR TELEPHONE, DATA, TV AND CCTV OUTLETS. TERMINATE CONDUIT WITH INSULATED BUSHINGS.
- G42. INSTALLATION OF EQUIPMENT SHALL BE COORDINATED WITH OTHER TRADES FOR SPACE REQUIREMENTS AND CONNECTION ARRANGEMENTS. EQUIPMENT SHALL BE INSTALLED TO MAINTAIN CLEARANCES AS RECOMMENDED BY MANUFACTURER OF EQUIPMENT OR CODES AND SHALL BE INSTALLED TO MAINTAINED ACCESS TO ALL SERVICEABLE PARTS.
- G43. IF INTERIOR WALLS EXTEND TO BOTTOM OF STRUCTURE ABOVE, PROVIDE 2" CONDUIT SLEEVES THROUGH INTERIOR PARTITIONS WHERE REQUIRED FOR PASSAGE OF COMMUNICATION CABLES TO OUTLETS SHOWN.
- G44. INSTALL ALL RECEPTACLES AND COMMUNICATION OUTLETS INDICATED IN LEGEND AT 16" AFF TO BOTTOM AND/OR AT COMMON HEIGHT INDICATED UNLESS NOTED OTHERWISE. MAKE SURE THAT ALL BOTTOMS OF BOXES ARE IN LINE. SAME APPLIES TO ALL OTHER DEVICES MOUNTED AT COMMON HEIGHTS SIDE BY SIDE.
- G45. FLOOR BOXES SHALL BE HUBBELL SYSTEM ONE, FLOOR BOXES FOR FIRST FLOOR SHALL BE RECESSED CONCRETE FLOOR BOXES 2 GANG CFB2G SERIES TO ACCOMMODATE DEVICES INDICATED ON PLAN SHEETS. FLOOR BOXES FOR SECOND FLOOR SHALL BE FIRE-RATED POKE-THROUGH S1R SERIES TO ACCOMMODATE DEVICES INDICATED ON PLAN SHEETS. COVER FINISH SHALL BE SELECTED BY ARCHITECT. PROVIDE SEPARATE BOXES FOR POWER AND COMM.



ALTERATIONS/ RENOVATION TO
EFFINGHAM COUNTY
ADMINISTRATION BUILDING
 SPRINGFIELD, GEORGIA

GENERAL AND
 DEMOLITION NOTES

REVISIONS

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E0.2

LIGHTING FIXTURE SCHEDULE

NOTE:
STEM LENGTH FOR FIXTURES AND MOUNTING HEIGHTS FOR WALL FIXTURES ARE INDICATED IN THE LIGHTING FIXTURE NOTES.
MOUNTING ABBREVIATIONS: R - RECESSED, S - SURFACE, W - WALL, P - PENDANT, C - SUSPENDED.

TYPE	DESCRIPTION	LED	MOUNTING	NOTES
A	PORTFOLIO LD6B-20_-D010-EU6B-3050-80-35-6LB-1-L1	3000L, 28W, 3500K	R	LF-3, 4, 8, 9
	CREE S-DL-6-42L-35K_-S-DL6T-W-SS-C			
	LITHONIA LDN6-35-30-L06-AR-LS-MVOLT-EZ1			
B	PORTFOLIO LD6B-20_-D010-EU6B-1020-80-35-6LB-1-L1	2000L, 21W, 3500K	R	LF-3, 4, 8, 9, 11
	CREE S-DL-6-34L-35K_-S-DL6T-W-SS-C			
	LITHONIA LDN6-35-20-L06-AR-LS-MVOLT-EZ1			
C	LITHONIA 2LES14-30L-MVOLT-EZ1-LP835 (2X4)	3248L, 24W, 3500K	R	LF-7, 8, 9, 11
	TECHLIGHT L2PT24-35-4L-1-12-W (2X4)			
	UTOPIA P24-36LED-35K_-12 WHITE LOUVER-PH_-UNV-1% DIM			
D	LITHONIA 2LES12-33L-MVOLT-EZ1-LP835 (2X2)	3338L, 28W, 3500K	R	LF-7, 8, 9, 11
	TECHLIGHT L2PT22-35-3L-1-6-W (2X2)			
	UTOPIA P22-36LED-35K_-9 WHITE LOUVER-PH_-UNV-1% DIM			
E	LITHONIA 2LES14-40L-MVOLT-EZ1-LP835 (2X4)	4060L, 30W, 3500K	R	LF-7, 8, 9, 11
	TECHLIGHT L2PT24-35-4L-1-12-W (2X4)			
	UTOPIA P24-54LED-35K_-12 WHITE LOUVER-PH_-UNV-1% DIM			
F	METALUX SB24CZ-LD5-55_-UNV-L835-CD-1	5504L, 46W, 3500K	R	LF-7, 8, 9, 11
	CREE 24-50L-835_-1%(0-10V)-UNV	120LM/W		
	LITHONIA 2BLT4_-60L-ADP-MVOLT-EZ1-LP835			
G	METALUX 2SWLED-20SL-LW-UNV-L835-CD-1-U	1947L, 21W, 3500K	W - ABOVE	
	C-LITE C-WR-A-WLIN2-24L-35-WH		MIRROR	
	LITHONIA BLWP2-20L-ADP-MVOLT-EZ1-LP835			
H	METALUX 4SNLED-LD5-20SL-LW-UNV-L840-CD-1-U	2100L, 16W, 4000K	W	
	C-LITE C-STRIP-A-LIN4-23L-40K-WH			
	LITHONIA CLX-L48-3000LM-SEF_-RDL-MVOLT-EZ1-40K-80CRI			
⊗	SURE-LITES CX-7-1 OR 2-*SD-RED	1W	UNIVERSAL	LF-2
	EVENLITE CCDS-EM-R-10R2-*CN-SD			
	LITHONIA LE-S-*10R2-R-UNV-ELN-SD			

FIXTURE SCHEDULE NOTES:

- LF-1. FIXTURES SPECIFIED ARE TO INDICATE THE QUALITY OF FIXTURES REQUIRED. PROVIDE PRODUCT LINES ASSOCIATED WITH HUBBELL LIGHTING INC (LAI), COOPER/EATON LIGHTING (ARDD/WINTER), LITHONIA LIGHTING (ASI) OR NEXTGEN LIGHTING SOUTH EQUIVALENTS TO THAT SPECIFIED. OTHER MANUFACTURERS PRODUCT LINES ARE SUBJECT TO PRIOR APPROVAL. PROVIDED THEY MEET PROJECT REQUIREMENTS AS DETERMINED BY ENGINEER, ARCHITECT AND OWNER. SUBMIT FOR PRIOR APPROVAL AT LEAST 10 DAYS PRIOR TO BID.
- LF-2. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON PLANS. PROVIDE CEILING MOUNTED (⊗), PENDANT MOUNTED (⊙), WALL (⊕) OR END (⊖) MOUNTED AS REQUIRED. FOR DOUBLE FACE WALL MOUNT, PROVIDE END BRACKETS NECESSARY. FOR WALL MOUNTED UNITS SHOWN ABOVE DOORS, MOUNT DIRECTLY ABOVE DOORS BETWEEN CEILING AND DOOR FRAME AS CLOSE TO DOOR FRAME AS POSSIBLE. FOR PENDANT AND WALL MOUNTED LIGHTS NOT ABOVE DOORS MOUNT 7'-6" AFF TO BOTTOM. * HOUSING FINISH TO MATCH EXISTING.
- LF-3. ALL LED'S SHALL HAVE A COLOR TEMPERATURE OF 3500° K AND CRI OF 80 MINIMUM.
- LF-4. FIXTURE JUNCTION BOXES AND/OR DRIVER ASSEMBLIES SHALL BE ACCESSIBLE AND SERVICEABLE THROUGH FIXTURE HOUSING FROM BELOW FINISHED CEILING.
- LF-5. PROVIDE 0° F DRIVERS FOR ALL EXTERIOR FIXTURES.
- LF-6. PROVIDE GASKETED FIXTURE FOR WET LOCATION.
- LF-7. PROVIDE FLANGE TRIM OR GRID TYPE TO MATCH CEILING. REFER TO RCP FOR CEILING TYPES.
- LF-8. FURNISH AND INSTALL SAFETY CHAIN BETWEEN FIXTURE AND STRUCTURE, SIMILAR TO DETAIL 1/E003.
- LF-9. WHERE DIMMER SWITCHES ARE INDICATED ON PLAN SHEETS PROVIDE 1% DIMMING DRIVERS COMPATIBLE WITH 1% LED DIMMER SWITCHES SPECIFIED.
- LF-10. REFER TO ARCHITECTURAL SECTIONS/ELEVATIONS FOR MOUNTING HEIGHTS.
- LF-11. FIXTURES DESIGNATED AS EMERGENCY (⊗) SHALL BE EQUIPPED WITH AN INTEGRAL BATTERY BACK WITH REMOTE TEST SWITCH AND SELF DIAGNOSTICS FEATURE. FLUSH MOUNT TEST SWITCH IN CEILING ADJACENT TO FIXTURE.

NOTES: (SENSOR WIRING)

- A. NOT ALL MANUFACTURERS' WIRING CONFIGURATIONS ARE THE SAME. REFER TO MANUFACTURER SPECIFIC WIRING DETAILS PRIOR TO INSTALLATION.
- B. THESE PLANS INDICATE AREAS TO BE CONTROLLED BY OCCUPANCY SENSORS. SINCE COVERAGES AND DEVICES VARY BETWEEN MANUFACTURERS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE PROPER LOCATION, ORIENTATION, AND QUANTITIES WITH THE MANUFACTURER OF THE SYSTEM BEING INSTALLED TO MEET THE SPECIFIED CRITERIA.
- C. THERE ARE NO POWER PACKS SHOWN ON FLOOR PLANS. PROVIDE POWER PACKS AS REQUIRED WITH SENSORS. POWER PACKS ARE TO BE RATED 20A. PROVIDE ONE POWER PACK PER 20A LIGHTING CIRCUIT OR PER INDIVIDUAL AREA BEING CONTROLLED.
- D. CEILING SENSORS ARE TO BE MOUNTED AWAY FROM ANY STRONG AIRFLOW. COORDINATE LOCATION OF SENSORS WITH MECHANICAL AND LIGHTING PLANS.
- E. ALL SENSORS SHALL BE CEILING MOUNTED EXCEPT WHERE CEILING HEIGHTS EXCEED 15'. PROVIDE SENSOR WITH ADAPTOR PLATE FOR JUNCTION BOX MOUNTING (JUNCTION BOX SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING). JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE UTILIZING 3/8" THREADED ROD. WHERE CEILING HEIGHTS EXCEED 15', WALL MOUNT SENSORS AT MAXIMUM MOUNTING OF 10'. FOR CEILINGS 10' AND LOWER, MOUNT 6" BELOW CEILING LINE.



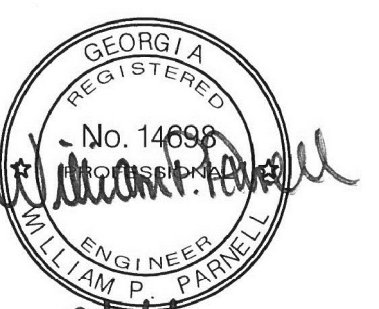
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ALTERATIONS/ RENOVATION TO
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ADMINISTRATION BUILDING
 SPRINGFIELD, GEORGIA

FIXTURE SCHEDULE
 AND NOTES

REVISIONS

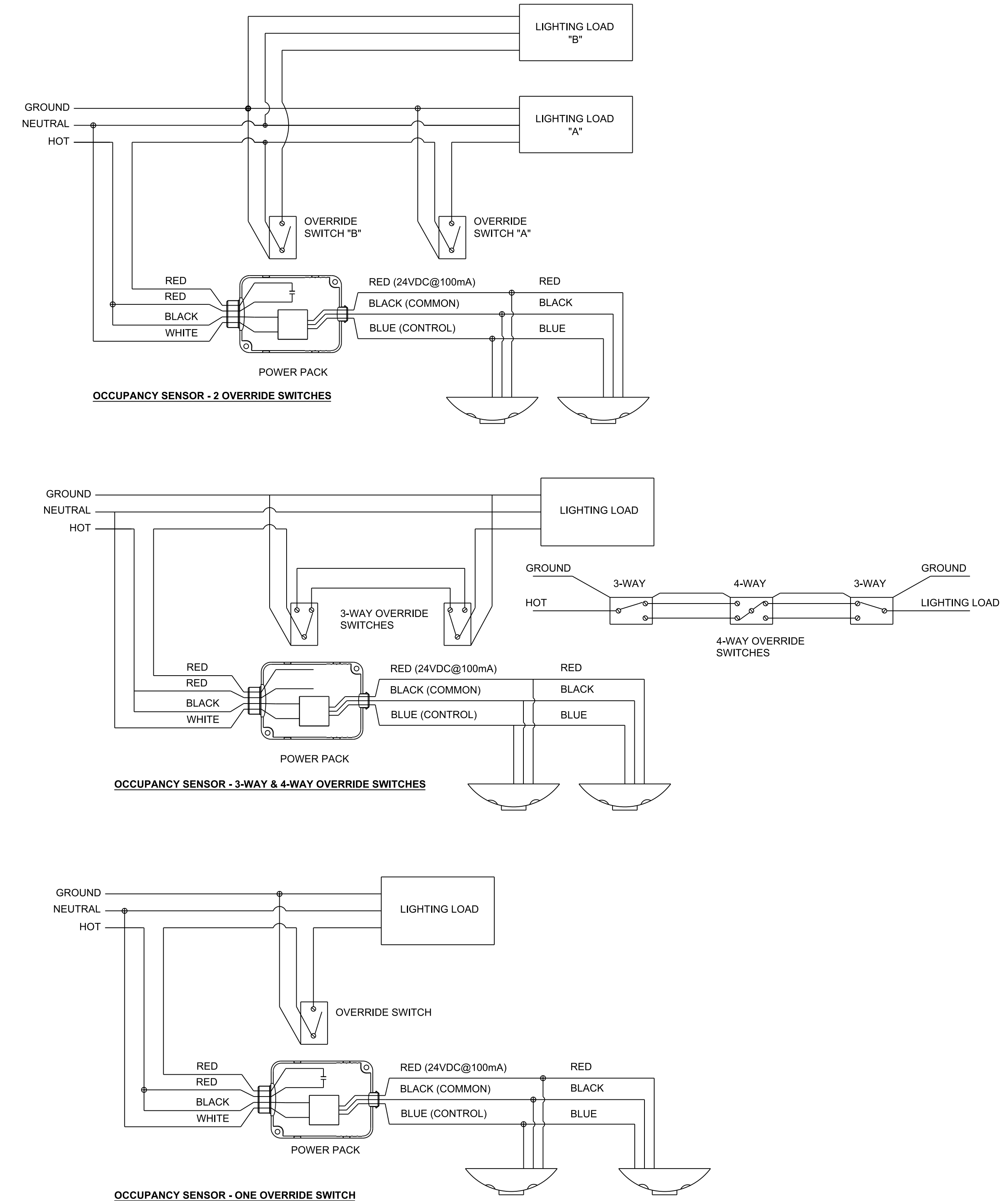
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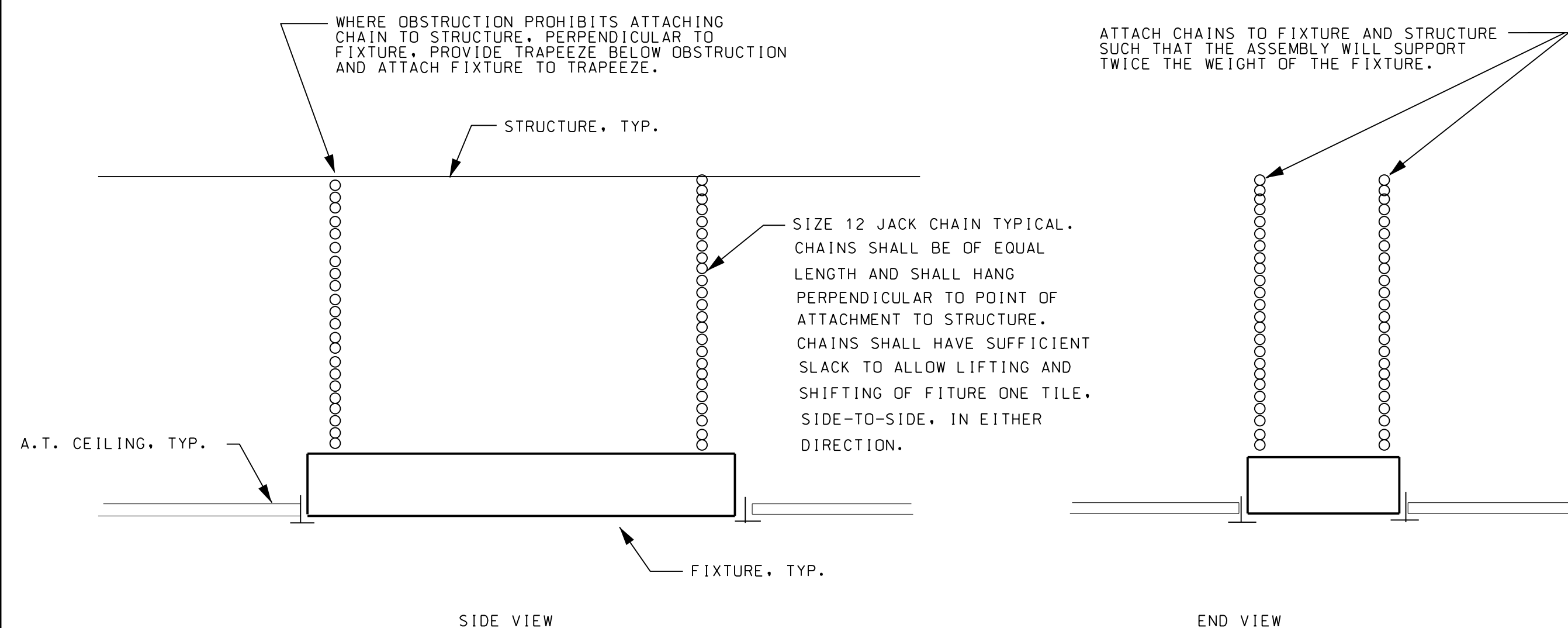
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E0.3



2 DETAIL - SENSOR WIRING
E0.3 SCALE: SCHEMATIC ONLY



1 DETAIL - SAFETY CHAIN INSTALLATION
E0.3 SCALE: SCHEMATIC ONLY

NOTE: 2 X 4 FIXTURE DEPICTED. INSTALLATION IS SIMILAR FOR OTHER FIXTURE TYPES. APPLICABLE TO ACOUSTICAL TILE CEILINGS ONLY.



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ALTERATIONS/ RENOVATION TO
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 ADMINISTRATION BUILDING**
 SPRINGFIELD, GEORGIA
 ELECTRICAL SPECIFICATIONS

REVISIONS

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E0.4

- E. SYSTEM WIRING AND SUPERVISION:
 1. PROVIDE CLASS I INITIATING AND ALARM CIRCUITS WITH ELECTRICAL SUPERVISION FOR SHORTS AND OPEN CONDITIONS.
 2. PROVIDE SYSTEM FOR OPERATION ON 120 VAC POWER SUPPLY. ARRANGE CONTROL SYSTEM FOR OPERATION OF PRIME POWER SUPPLY TO OPERATE FROM OPPOSITE LEGS OF A THREE WIRE CIRCUIT.
 3. PROVIDE BATTERY BACK-UP AS SECONDARY POWER SUPPLY; TO TAKE OVER SUPPLY WHEN PRIMARY SYSTEM VOLTAGE IS REDUCED TO BELOW 85% OF RATING. PROVIDE BATTERY SYSTEM CAPABLE OF OPERATION FOR 24 HOURS UNDER NORMAL CONDITIONS AND THEN FOR FIVE MINUTES UNDER ALARM CONDITIONS.
- F. ADDITIONAL SYSTEM FEATURES:
 1. CONTROL OF AUXILIARY SERVICES.
 - A. FAN SHUT DOWN IDEAS.
 - B. MAGNETIC DOOR RELEASE.
 2. INTERFACE WITH ELEVATORS.
 3. EQUIP AND WIRE SYSTEM SO THAT ENERGIZING FIRE ALARM AUDIBLE SIGNALING DEVICE WILL ALSO ACTIVATE THE FOLLOWING:
 - A. EXTERIOR FLASHING STROBE LIGHTS.
 - B. INTERIOR FLASHING STROBE LIGHTS.
 - C. FAN SHUT DOWN CIRCUITS.
 - D. REMOTE ANNUNCIATORS.
 - E. DACT.
 - F. ADDITIONAL REPORTING METHOD PER NFPA 72-26.6.4.1-4.
- G. SYSTEM MATERIALS: PROVIDE BASIC WIRING MATERIALS WHICH COMPLY WITH THE PROVISIONS OF THIS SPECIFICATION EXCEPT AS NOTED OR SPECIFIED HEREIN.
 1. PROVIDE CONDUCTORS WHICH ARE LISTED AND APPROVED FOR FIRE ALARM USAGE.
- H. SYSTEM OPERATION:
 1. ACTUATION OF ANY ALARM INITIATION DEVICE SHALL AUTOMATICALLY INITIATE THE FOLLOWING:
 - A. CAUSE THE AUDIBLE ALARMS TO SOUND AND ALL VISUAL ALARMS TO FLASH. IDENTIFY ADDRESS AT CONTROL PANEL AND REMOTE ANNUNCIATOR.
 - B. ACTIVATE ALL CONTACTS FOR HVAC EQUIPMENT CONTROL.
 - C. ACTIVATE A DIGITAL ALARM COMMUNICATOR (DACT) TO REPORT THE ALARM TO A REMOTE LOCATION PER NFPA 46-6.4.3 AND NFPA 72-26.6.4.1-4 (REQUIRES LEASED PHONE LINE AND ONE ADDITIONAL REPORTING METHOD). ANY CHARGES FOR CONNECTION TO THE REMOTE ALARM LIVING EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE BUILDING OWNER. COORDINATE WITH OWNER AND AUTHORITY HAVING JURISDICTION AND FIRE DEPARTMENT AND PREFERRED METHOD OF REPORTING TO REMOTE FIRE DEPARTMENT LOCATION.
 2. POWER FAILURES, OPENS, GROUNDS, OR ANY SYSTEM MALFUNCTIONS SHALL INITIATE A VISUAL AND AUDIBLE TROUBLE ALARM AT THE CENTRAL CONTROL PANEL, TO REMAIN LIT UNTIL SYSTEM IS RETURNED TO NORMAL.
- I. EQUIPMENT:
 1. CONTROL PANELS: FIRE ALARM CONTROL PANEL SHALL CONTAIN ALL DEVICES AND CIRCUITS NECESSARY TO PERFORM REQUIRED FUNCTIONS. DEVICES SHALL BE MODULAR PLUG-IN-TYPE. PANEL SHALL OPERATE ON 120 VOLT AC WITH 24 VOLT DC BATTERY.
 2. MANUAL FIRE ALARM STATIONS: MANUFACTURER'S STANDARD CONSTRUCTION, RED ENCLOSURE, MANUAL STATION, SINGLE ACTION, KEY OPERATED, FLUSH MOUNTED.
 3. AUDIBLE/VISUAL: MANUFACTURER'S STANDARD CONSTRUCTION HORN FLUSH MOUNTED WITH HORN AND WITH ALARM LIGHT WITH LENS LETTERED "FIRE".
 4. VISUALS: MANUFACTURER'S STANDARD CONSTRUCTION VISUAL FLUSH MOUNTED WITH ALARM LIGHT WITH LENS LETTERED "FIRE".
 5. AUTOMATIC FIRE DETECTORS: MANUFACTURER'S STANDARD CONSTRUCTION OF THE FOLLOWING TYPES AND TEMPERATURE CONSTRUCTION:
 - A. HEAT DETECTORS: COMBINATION RATE OF RISE AND FIXED TEMPERATURE SPOT TYPE RESTORABLE.
 - B. SMOKE DETECTORS: PHOTOELECTRIC INFRARED TYPE, RESTORABLE, CAPABLE OF OPERATION OF EITHER 2 WIRE OR 4 WIRE SYSTEMS. PROVIDE 135°F FIXED TEMPERATURE BASE AND PULSED LED WHICH WILL REMAIN STEADY DURING ALARM CONDITION. ALSO PROVIDE PHOTOELECTRIC DUCT MOUNTED DETECTORS WITH SAMPLING TUBES AS SHOWN ON THE DRAWINGS.
 6. DACT: MANUFACTURER'S STANDARD CONSTRUCTION.
- J. INSTALLATION:
 1. INSTALL ALL SYSTEM WIRING IN RACEWAY. INSTALL WIRES AND CABLES WITHOUT SPLICES. MAKE CONNECTIONS AT TERMINAL STRIPS IN CABINETS OR EQUIPMENT ENCLOSURES.
 2. COMPLETE WIRING IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS, COLOR CODE WIRING AND INSTALL PER MANUFACTURER'S POINT-TO-POINT WIRING DIAGRAM. DETERMINE EXACT NUMBER OF WIRES FOR EACH FIRE ALARM ADDRESS FROM NUMBER AND TYPES OF DEVICES INSTALLED. CONNECT EACH DEVICE WITH SUFFICIENT WIRING TO COMPLETE ITS INTENDED OPERATION.
 3. WHERE THERE ARE A NUMBER OF POWER REQUIRING DEVICES INSTALLED IN A CIRCUIT GROUP IN NUMBERS SO POWER REQUIRED DOES NOT EXCEED 80% OF MANUFACTURER'S POWER SUPPLY RATING. PROVIDE EXTRA WIRING, OR EXTRA POWER SUPPLIES REQUIRED TO FULFILL WIRING TO ALLEViate VOLTAGE DROPS WHICH MAKES DEVICE OPERATE BEYOND VOLTAGE LIMITS FOR WHICH IT WAS DESIGNED. DETERMINE ABOVE WITH MANUFACTURER'S REPRESENTATIVE WHILE EQUIPMENT IS BEING INSTALLED.

END OF SECTION 16000.

- E. CIRCUIT BREAKERS SHALL BE QUICK-MAKE, QUICK-BREAK, THERMAL MAGNETIC TYPE BOLTED TO THE BUS. MULTI-POLE BREAKERS SHALL BE COMMON TRIP AND COMMON RESET TYPE. THE HANDLE CONNECTIONS ARE NOT ACCEPTABLE. INTERRUPTING RATINGS ON 200 VOLT SYSTEMS SHALL BE 10,000 RMS SYMMETRICAL AMPS MINIMUM.
 - F. MOUNT PANEL BOARDS WITH TOP CIRCUIT NOT MORE THAN 6'-6" ABOVE FINISHED FLOOR.
 - G. PROVIDE IN EACH PANEL BOARD A TYPE WRITTEN CIRCUIT DIRECTORY MOUNTED UNDER CLEAR PLASTIC IN METAL HOLDER IN THE DOOR. THE PANEL REFLECTING ALL FIELD CHANGES ADDITIONS.
 - H. MODIFY EACH CIRCUIT DIRECTORY IN EACH EXISTING PANELBOARD TO REFLECT ALL FIELD CHANGES AND ADDITIONS. FURNISH AND INSTALL A NEW UPDATED TYPE WRITTEN CIRCUIT DIRECTORY.
 - I. INSTALL PUSH-IN KNOCK-OUT CLOSURE PLUGS IN ANY UNUSED KNOCK-OUT OPENINGS.
 - J. PANELBOARDS SHALL BE DOOR IN DOOR TYPE CONSTRUCTION.
- 3.3 FUSES
- A. PROVIDE FUSES OF TYPES, SIZES AND RATINGS RECOMMENDED BY EQUIPMENT MANUFACTURER.
- 16500 - LIGHTING SYSTEM
- 4.1 INTERIOR LIGHTING FIXTURES
- A. ALL MATERIALS SHALL BE NEW, FREE FROM DEFECTS, AND BEAR A UL LABEL. FIXTURES INSTALLED IN FIRE RATED CEILINGS SHALL PRESERVE THE FIRE RATING OF THE CEILING.
 - B. LIGHTING FIXTURES SHALL NOT BE MANUFACTURED WITH LESS THAN CODE GAUGE STEEL.
 - C. LIGHTING FIXTURES SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDED MOUNTING METHODS AND THE PROVISIONS OF THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE ARCHITECTURAL PLANS AND SPECIFICATIONS TO VERIFY THE MOUNTING COMPATIBILITY OF THE LIGHTING FIXTURES WITH CEILING TYPE BEFORE FIXTURES ARE RELEASED FOR ORDERING. PROVIDE CEILING COMPATIBLE FIXTURES IN ALL CASES REGARDLESS OF THE CATALOG NUMBER ON THE DRAWINGS. RECESSED FIXTURES SHALL BE INSTALLED WITHOUT VISIBLE CRACKS OR LIGHT LEAKS BETWEEN CEILING AND FIXTURE TRIM.
 - D. SAFETY CHAINS SHALL BE INSTALLED ON ALL SUSPENDED OR GRID CEILING TYPE FIXTURES. ALL FIXTURES SHALL BE CLEANED AND FREE OF FINGER PRINTS PRIOR TO FINAL ACCEPTANCE.
- 4.2 EMERGENCY LIGHTING FIXTURES
- A. PRODUCTS OF BODINE, LIGHTALARMS, SURE-LITE, EMERGI-LITE, DUAL-LITE, CHLORIDE, OR EXIDE COMPLYING WITH THESE SPECIFICATIONS ARE ACCEPTABLE.
 - B. THE ELECTRONIC EMERGENCY POWER ASSEMBLY INSTALLED IN DESIGNATED FIXTURES SHALL OPERATE LED MODULE AT APPROXIMATELY 1300 LUMENS FOR A PERIOD OF 90 MINUTES UPON FAILURE OF THE NORMAL POWER SYSTEM. THE ASSEMBLY SHALL CONSIST OF TWO MODULES MOUNTED WITHIN THE DRIVER HOUSING COMPARTMENT OF THE FIXTURE.
 1. ONE MODULE SHALL CONTAIN NICKEL CADMIUM CELLS CONNECTED TO PROVIDE 24 WATT HOURS OF BATTERY BACKUP SERVED UNDER NORMAL CHARGING. THE BATTERY MODULE SHALL CONTAIN AN AUTOMATIC LOW VOLTAGE CUTOFF CIRCUIT TO PROTECT THE MODULE FROM EXCESSIVE DISCHARGE.
 2. THE OTHER MODULE SHALL CONTAIN ELECTRONIC COMPONENTS AND CIRCUITRY FOR LED OPERATION, BATTERY RECHARGING, TRANSFER MECHANISM AND SIGNAL FACILITIES TO INDICATE THE COMPLETE SYSTEM IS IN A "READY" STATE. A LIGHT EMITTING DIODE SHALL BE POSITIONED WITHIN THE FIXTURE TO PROVIDE VISUAL INDICATION THAT THE EMERGENCY POWER SYSTEM IS OPERABLE. THE OUTPUT OF THE DIODE SHALL BE A BRIGHT RED FLOW WHICH SHALL BE VISIBLE THROUGH THE FIXTURE LENS OR DIFFUSER. A REMOTE CEILING MOUNTED TEST BUTTON WITH VISUAL SHALL BE PROVIDED ADJACENT TO THE FIXTURE, TO SIMULATE A POWER FAILURE, UNLESS REMOTE WALL MOUNTED TEST SWITCH IS SHOWN. THE SYSTEM SHALL BE DESIGNATED TO TRANSFER TO THE EMERGENCY POWER OPERATION WHEN THE LINE VOLTAGE OF THE CIRCUIT DROPS TO 75% OF NORMAL. THE SYSTEM SHALL BE FOR USE ON THE VOLTAGE OF THE BRANCH CIRCUIT TO WHICH THE FIXTURES ARE CONNECTED. PROVIDE SELF DIAGNOSTICS MODULE.
 - C. EXIT SIGNS SHALL BE IN COMPLIANCE WITH UL 924 DATED JANUARY 1987. BATTERY OPERATED EXIT FIXTURES SHALL BE FED FROM A JUNCTION BOX AND NOT BE OF THE CORD AND PLUG TYPE. A LIGHT EMITTING DIODE SHALL BE POSITIONED ON THE FIXTURE TO PROVIDE A VISUAL INDICATION THAT THE EMERGENCY POWER SYSTEM IS OPERABLE. THE OUTPUT OF THE DIODE SHALL BE A BRIGHT RED GLOW. A TEST BUTTON SHALL BE PROVIDED ADJACENT TO THE VISUAL SIGNAL, TO SIMULATE A POWER FAILURE. BATTERY OPERATED EXIT FIXTURES SHALL HAVE NICKEL CADMIUM BATTERIES.
 - D. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW THE ARCHITECTURAL PLANS AND SPECIFICATIONS TO VERIFY THE MOUNTING COMPATIBILITY OF THE LIGHTING FIXTURES WITH THE CEILING TYPE BEFORE FIXTURES ARE RELEASED FOR ORDERING AND MANUFACTURE.
 1. SAFETY CHAINS AND CLIPS SHALL BE INSTALLED ON ALL SUSPENDED OR GRID CEILING TYPE FIXTURES.
 2. FIXTURES SHALL BE INSTALLED SO THAT NO LABELS WILL BE VISIBLE UNDER NORMAL OPERATING CONDITIONS OF THE FIXTURE.
 3. ALL INSTALLED FIXTURES SHALL BE CLEANED AND FREE OF FINGERPRINTS PRIOR TO FINAL ACCEPTANCES.
 4. ALL BATTERY OPERATED EMERGENCY FIXTURES SHALL BE INDIVIDUALLY OPERATED AND TESTED PRIOR TO BEING TURNED OVER TO THE OWNER.

- 16700 - LOW VOLTAGE SYSTEMS
- 5.1 FIRE ALARM SYSTEM - ADDRESSIBLE
- A. THE FOLLOWING SPECIFICATIONS AND STANDARDS ARE INCORPORATED INTO AND BECOME A PART OF THIS SPECIFICATION.
 1. UNDERWRITER'S LABORATORIES, INC. PUBLICATIONS 38, 218.
 2. NATIONAL FIRE PROTECTION ASSOCIATION PUBLICATIONS 72.
 - B. PRODUCTS OF EDWARDS, SIMPLEX OR NOTIFIER WHICH COMPLY WITH THESE SPECIFICATIONS SHALL ONLY BE ACCEPTABLE.
 - C. GENERAL: PROVIDE COMPLETE ADDRESSIBLE FIRE ALARM SYSTEM. PRODUCTS OF TYPES, SIZES AND CAPACITIES INDICATED, WHICH COMPLY WITH MANUFACTURER'S STANDARD DESIGN, MATERIALS, COMPONENTS AND FINISHES. IN ACCORDANCE WITH PUBLISHED PRODUCT INFORMATION, AND AS REQUIRED FOR COMPLETE INSTALLATION. PROVIDE FIRE ALARM AND DETECTION SYSTEMS FOR APPLICATIONS INDICATED.
 1. COMBINATION, NONCODED SYSTEM.
 - D. DESIGN SYSTEM FOR SOUNDING CONTINUOUSLY THROUGHOUT THE FACILITY.

- J. PROVIDE LIQUID-TIGHT METAL FLEXIBLE CONDUIT FOR CONNECTION OF MOTORS AND OTHER ELECTRICAL EQUIPMENT WHERE SUBJECT TO MOVEMENT AND VIBRATION, AND ALSO WHERE CONNECTIONS ARE SUBJECT TO ONE OR MORE OF THE FOLLOWING CONDITIONS:
 1. EXTERIOR LOCATION.
 2. MOIST OR HUMID ATMOSPHERE WHERE CONDENSATION CAN BE EXPECTED TO ACCUMULATE.
 3. CORROSIVE ATMOSPHERE.
 4. WATER SPRAY.
 5. DRIPPING OIL, GREASE, OR WATER.
- 2.5 WIRING DEVICES
- A. SINGLE POLE, 20 AMP, 277 VOLT TOGGLE SWITCHES SHALL BE HUBBELL 1221, THREEWAY, 20 AMP, 277V VOLT SWITCHES SHALL BE HUBBELL 1223. EQUIVALENT SWITCHES MANUFACTURED BY ARROW HART, GENERAL ELECTRIC, LEGRAND, OR LEVITON ARE ACCEPTABLE.
 - B. TWENTY AMP, 125 VOLT GROUNDED DUPLEX RECEPTACLES (NEMA 5-20R) SHALL BE HUBBELL 5352, GROUND FAULT INTERRUPTER (GFI) RECEPTACLES SHALL BE HUBBELL GF8200, EQUIVALENT RECEPTACLES MANUFACTURED BY ARROW HART, GENERAL ELECTRIC, LEGRAND, OR LEVITON ARE ACCEPTABLE.
 - C. DEVICE PLATES SHALL BE ONE PIECE SINGLE OR MULTIGANG TYPE SELECTED TO MATCH THE DEVICE OR COMBINATION OF DEVICES. DEVICE PLATES FOR FLUSH MOUNTED DEVICES SHALL BE SMOOTH SURFACED PLASTIC OF THE SAME FINISH AS THE DEVICES.
 - D. ALL DEVICES SHALL BE PROVIDED WITH WHITE FINISH. MOUNT ALL DEVICES WITHIN OUTLET BOXES TO ALLOW DEVICE PLATES TO BE IN CONTACT WITH WALL ON ALL SIDES. INSTALL WALL SWITCHES ON THE STRIKE SIDE OF DOORS.
- 2.6 CIRCUIT AND MOTOR DISCONNECTS
- A. PRODUCTS OF GENERAL ELECTRIC, CUTLER-HAMMER, SQUARE D, OR SIEMENS WHICH COMPLY WITH THESE SPECIFICATIONS ARE ACCEPTABLE.
 - B. DISCONNECT SWITCHES SHALL BE HEAVY DUTY NONFUSIBLE SAFETY SWITCH TYPE FOR 250 TO 600 VOLT SYSTEMS INDICATED ON THE DRAWINGS, WITH THE NUMBER OF POLES REQUIRED TO DISCONNECT ALL UNGROUNDED CONDUCTORS SERVING THE EQUIPMENT.
 1. FURNISH AN EQUIPMENT GROUNDING CONDUCTOR LUG BONDED TO THE SWITCH ENCLOSURE.
 2. FURNISH NEMA TYPE ONE ENCLOSURE FOR ALL INTERIOR DRY LOCATIONS, AND NEMA TYPE 3R FOR ALL DAMP, WET, OR EXTERIOR LOCATIONS UNLESS OTHER TYPES ARE INDICATED ON THE DRAWINGS.
 3. SWITCHES FOR AIR CONDITIONING EQUIPMENT SHALL BE FUSE SIZE SHALL BE AS SHOWN ON THE EQUIPMENT NAMEPLATE.
 - C. SWITCHES SHALL HAVE THE FOLLOWING FEATURES:
 1. PERMANENT NAME PLATE INDICATING ALL RATINGS.
 2. SOLID INSULATION FOR 250 TO 600 VOLT SYSTEMS, 250 VOLT RATING FOR SYSTEMS BELOW 250 VOLTS.
 3. REJECTION CLIPS TO ACCEPT ONLY RK1 OR RK5 FUSES WHEN SWITCH IS FUSIBLE TYPE.
 - D. DISCONNECT SWITCHES FOR THREE PHASE MOTOR RATED TWO HORSEPOWER AND ABOVE SHALL BE THREE POLE NONFUSIBLE TYPE. DISCONNECT SWITCHES FOR THREE PHASE MOTORS RATED LESS THAN TWO HORSEPOWER SHALL BE THREE POLE MANUAL MOTOR STARTER SWITCHES WITHOUT OVERLOAD PROTECTION. DISCONNECTS FOR SINGLE PHASE MOTORS SHALL BE SINGLE OR TWO POLE HORSEPOWER RATED SWITCHES WITHOUT OVERLOAD PROTECTION.
 - E. LOCATE SWITCHES TO PROVIDE FULL ACCESSIBILITY AND WORKING CLEARANCES REQUIRED BY THE NEC. LOCATE ADJACENT TO EQUIPMENT SERVED UNLESS OTHERWISE INDICATED OTHERWISE. MOUNT SWITCH DIRECTLY TO STRUCTURE OR TO METAL CHANNEL DEPENDING UPON FIELD CONDITIONS. MOUNT SWITCH HANDLE BETWEEN 36" AND 60" ABOVE FINISHED FLOOR.
- 2.7 SUPPORTING DEVICES
- A. PROVIDE AND INSTALL SUPPORTING DEVICES WHICH COMPLY WITH MANUFACTURER'S STANDARD MATERIAL DESIGN AND CONSTRUCTION IN ACCORDANCE WITH PUBLISHED STANDARDS AND AS REQUIRED FOR COMPLETE INSTALLATION.
 - B. COORDINATE WITH OTHER ELECTRICAL WORK, INCLUDING RACEWAY AND WIRING WORK, AS NECESSARY TO INTERFACE INSTALLATION OF SUPPORTING DEVICES. INSTALL HANGARS, SUPPORTS, CLAMPS AND ATTACHMENTS TO SUPPORT PIPING PROPERLY FROM BUILDING STRUCTURE ONLY. PROVIDE SLEEVE SEAL NUTS, COMPLYING WITH MANUFACTURER'S RECOMMENDED VALUES. ENSURE THAT SEALING GROMMETS EXPAND TO FORM WATERTIGHT SEAL.
- 2.8 ELECTRICAL IDENTIFICATION
- A. INSTALL ENGRAVED PLASTIC LAMINATE SIGN ON EACH MAJOR UNIT OF ELECTRICAL EQUIPMENT. PROVIDE A SINGLE LINE OF EQUIPMENT IDENTIFICATION SIGN ON 1 1/2" HIGH SIGN OR HIGH SIGN IF 2 LINES REQUIRED). PROVIDE SIGNS FOR EACH UNIT OF THE FOLLOWING:
 1. ELECTRICAL CABINETS AND ENCLOSURES.
 2. MOTOR CONTROLLERS.
 3. DISCONNECT SWITCHES.
 4. PANELBOARDS.
 5. TRANSFORMERS.
 6. SWITCHBOARDS.
- 16400 - DISTRIBUTION EQUIPMENT
- 3.1 GROUNDING SYSTEMS
- A. EQUIPMENT GROUNDING SYSTEM SHALL BE ESTABLISHED WITH EQUIPMENT GROUND CONDUCTORS, THE USE OF METALLIC RACEWAYS FOR EQUIPMENT GROUNDING IS NOT ACCEPTABLE, UNLESS INDICATED OTHERWISE, PROVIDE EQUIPMENT GROUND THE SAME SIZE AS PHASE CONDUCTORS.
 - B. EACH RECEPTACLE AND SWITCH DEVICE SHALL BE FURNISHED WITH A GROUNDING SCREW CONNECTED TO THE METALLIC DEVICE FRAME. PROVIDE A CONDUCTOR TERMINATION GROUNDING LUG BONDED TO THE ENCLOSURE FOR EACH MOTOR CONTROLLER AND DISCONNECT SWITCH.
 - C. GROUND ALL NONCURRENT CARRYING PARTS OF THE ELECTRICAL SYSTEM, I.E., WIREWAYS, EQUIPMENT ENCLOSURES AND FRAMES, JUNCTION AND OUTLET BOXES, MACHINERY FRAMES, AND OTHER CONDUCTIVE ITEMS IN CLOSE PROXIMITY WITH ELECTRICAL CIRCUITS.
 - D. GROUNDING CONDUCTORS FOR BRANCH CIRCUITS ARE NOT SHOWN ON THE DRAWINGS; HOWEVER, GROUNDING CONDUCTORS SHALL BE PROVIDED IN ALL BRANCH CIRCUIT RACEWAYS AND FLEXIBLE CONDUIT. GROUNDING CONDUCTORS SHALL BE THE SAME AWG SIZE AS BRANCH CIRCUIT CONDUCTORS.
- 3.2 PANELBOARDS
- A. PRODUCTS OF SIEMENS WHICH COMPLY WITH THESE SPECIFICATIONS SHALL ONLY BE ACCEPTABLE.
 - B. ALL PANELS AND CIRCUIT BREAKERS SHALL BE UL LISTED AND BEAR A UL LABEL.
 - C. ALL BUS BARS SHALL BE COPPER. EACH PANEL SHALL CONTAIN A FULL SIZE GROUNDING BUS AND, WHEN REQUIRED, A FULL SIZE INSULATED NEUTRAL BUS.
 - D. BRANCH CIRCUIT PANEL BOARD WIDTH SHALL BE BETWEEN 20 AND 22 INCHES; DEPTH SHALL BE 5 3/4" MAXIMUM.

- D. ALL CONDUIT SUPPORT PARTS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED. CONDUIT STRAPS SHALL BE TWO HOLE GALVANIZED OR STAINLESS STEEL METAL TYPE. WIRE OR CHAIN IS NOT ACCEPTABLE FOR CONDUIT HANGERS. INDIVIDUAL CONDUIT HANGERS AND EMPTY CONDUITS WITH A 200 LB. TEST SPECIFICALLY DESIGNED FOR THE PURPOSE. INDIVIDUAL CONDUIT STRAPS ON METAL STUDS SHALL BE SPRING STEEL AND SHOULD WRAP AROUND THE ENTIRE FACE OF THE STUD; TIE WRAPS ARE NOT ACCEPTABLE.
 - E. CONCEAL ALL CONDUITS EXCEPT IN UNFINISHED SPACES SUCH AS EQUIPMENT ROOMS OR WHERE INDICATED BY THE SYMBOL ON THE DRAWINGS. LEAVE ALL EMPTY CONDUITS WITH A 200 LB. TEST NYLON CORD PULL LINE. DEFORMED CONDUITS SHALL BE REPLACED. PROTECT CONDUITS AGAINST DIRT, PLASTER, AND FOREIGN DEBRIS WITH CONDUIT PLUGS.
 - F. FASTEN CONDUIT SUPPORT DEVICES TO STRUCTURE WITH WOOD SCREWS ON WOOD, TOGGLE BOLTS ON HOLLOW MASONRY, EXPANSION ANCHORS ON SOLID MASONRY OR CONCRETE, AND MACHINE BOLTS OR CLAMPS ON STEEL. NAILS ARE NOT ACCEPTABLE. SEAL ALL CONDUITS PENETRATING BUILDING EXTERIOR OR REFRIGERATED SPACES WITH INSULATING ELECTRICAL PUTTY TO PREVENT ENTRANCE OF MOISTURE.
 - G. CONDUIT SHALL BE RUN PARALLEL OR AT RIGHT ANGLES TO WALLS, CEILINGS, AND STRUCTURAL MEMBERS. SUPPORT BRANCH CIRCUIT CONDUITS AT INTERVALS NOT EXCEEDING 10 FEET, AND WITHIN 3 FEET OF EACH END OF EACH RUN OF DIRECTION. RESTORE THE FIRE RATING OF ALL WALL AND FLOOR PENETRATIONS. PROVIDE AN EXPANSION AND DEFLECTION COUPLING WHERE CONDUITS CROSS A BUILDING EXPANSION JOINT.
- 2.2 WIRES AND CABLES
- A. CONDUCTOR SIZE SHALL BE MINIMUM OF NO. 12 AWG, UNLESS LARGER SIZE IS REQUIRED BY THE DRAWINGS OR THE NEC. ALL WIRE AND CABLE SHALL BEAR THE UL LABEL. FIRE ALARM CONDUCTORS ARE NOT INCLUDED IN THIS SPECIFICATION; THEY SHALL COMPLY WITH NEC REQUIREMENTS.
 - B. CONDUCTORS NO. 10 AND SMALLER SHALL BE SOLID COPPER, 75°C. TYPE THW OR THWN/THHN. CONDUCTORS LARGER THAN NO. 10 SHALL BE STRANDED COPPER, 75°C. TYPE THW, THWN/THHN, OR XHHW. FIXTURE WIRE SHALL BE NO. 16 AWG SILICONE RUBBER INSULATED, STRANDED FIXTURE WIRE TYPE SF2 OR NO. 16 THERMOPLASTIC NYLON JACKETED STRANDED FIXTURE WIRE TYPE TFFN.
 - C. COLOR CODE ALL CONDUCTORS, NO. 10 AND SMALLER SHALL HAVE SOLID COLOR COMPOUND OR COATING, NO. 8 AND LARGER SHALL HAVE SOLID COLOR COMPOUND OR COLORED PHASE TAPE. TAPE SHALL BE INSTALLED ON CONDUCTORS IN EVERY BOX, AT EACH TERMINATION POINT, CABINET, OR ENCLOSURE. CODING SHALL BE AS FOLLOWS:
 1. 208Y/120 VOLT THREE PHASE FOUR WIRE WYE SYSTEM: PHASE A-BLACK, PHASE B-RED, PHASE C-BLUE, NEUTRAL-WHITE.
 2. GROUNDING CONDUCTORS SHALL BE GREEN.
 3. NEUTRAL CONDUCTORS NO. 6 AND SMALLER SHALL HAVE SOLID COLOR COMPOUND OR COLORED PHASE TAPE FOR THE ENTIRE LENGTH OF CONDUCTOR, NEUTRAL CONDUCTORS NO. 4 AND LARGER SHALL HAVE COLORED PHASE TAPE. COLORED TAPE SHALL BE INSTALLED ON CONDUCTORS IN EVERY BOX, AT EACH TERMINATION POINT, CABINET OR OTHER ACCESSIBLE LOCATION.
 - D. GROUP AND LACE WITH NYLON TIE STRAPS ALL CONDUCTORS WITHIN ENCLOSURES, MAKE SPLICES, CONDUIT BOXES, WITHIN JUNCTION BOXES, WIRING TROUGH, OR OTHER NEC APPROVED ENCLOSURES. DO NOT SPLICE CONDUCTORS IN PANELBOARDS, SAFETY SWITCHES, PULL BOXES OR MOTOR CONTROL ENCLOSURES. IDENTIFY EACH CONDUCTOR AS TO CIRCUIT CONNECTION IN ALL BOXES AND ENCLOSURES.
 - E. TERMINATE STRANDED CONDUCTORS NO. 10 AWG AND SMALLER WITH CRIMP-TYPE LUG OR CRIMP TERMINAL SHALL BE THE CONFIGURATION TYPE SUITABLE FOR TERMINAL POINT.
- 2.3 BOXES
- A. BOXES SHALL BE HOT-DIPPED GALVANIZED STEEL SHEET METAL, UNLESS RUSTPROOF CAST METAL IS SPECIFIED OR REQUIRED BY THE NEC. BOXES FOR SURFACE AND PENDANT MOUNTED LIGHTING FIXTURES SHALL BE 4" DEPT. OUTLET BOXES FOR FLUSH MOUNTED LIGHTING FIXTURES, SWITCHES, RECEPTACLES AND WALL MOUNTED JUNCTION BOXES SHALL BE 4 1/8" SQUARE BOXES, 2 1/8" DEEP. OUTLET BOXES FOR GFI RECEPTACLES SHALL BE 2 3/4" DEEP.
 - B. OUTLET BOXES FOR SWITCHES AND RECEPTACLES IN EXPOSED WIRING SYSTEMS SHALL BE CAST FS TYPE WITH MATCHING DEVICE PLATE. PROVIDE LARGER BOXES AS REQUIRED FOR SPECIAL PURPOSE DEVICES.
 - C. DIMENSIONS OF PULL AND JUNCTION BOXES SHALL NOT BE LESS THAN THOSE REQUIRED BY THE NEC FOR THE NUMBER, SIZE, AND POSITION OF CONDUCTORS ENTERING THE BOX.
 - D. ALL BOXES SHALL BE COMPLETELY ACCESSIBLE AND AS REQUIRED BY THE NEC. PROVIDE ACCESS PANELS IN ALL NON-ACCESSIBLE SPACES TO PERMIT ACCESS TO BOXES. PROVIDE AN OUTLET BOX FOR EACH LIGHTING FIXTURE AND FOR EACH DEVICE. BOX SIZES SHALL BE INCREASED FROM THOSE OUTLINED ABOVE IF REQUIRED BY ARTICLE 314 OF THE NEC.
 - E. SUPPORT EVERY BOX FROM STRUCTURE. SECURE TO WOOD WITH WOOD SCREWS, HOLLOW MASONRY WITH TOGGLE BOLTS, METAL WITH SHEET METAL SCREWS, SOLID MASONRY OR CONCRETE WITH EXPANSION ANCHORS, METAL STUDS WITH SPRING STEEL CLAMP, AND STRUCTURE WITH THREADED STEEL ROD WHEN SUSPENDED. SET OUTLET BOXES FOR FLUSH MOUNTED DEVICES TO WITHIN 1/8" OF FINISHED WALLS; SPACERS OR SHIMS BETWEEN BOX AND DEVICE ARE NOT ACCEPTABLE.
 - F. OUTLET BOXES IN THE SAME WALL SHALL NOT BE MOUNTED BACK-TO-BACK; OFFSET A MINIMUM OF 6". REMOVE ONLY KNOCKOUTS AS REQUIRED AND PLUG ALL UNUSED OPENINGS. AFTER COMPLETION, USING INDELEIBLE INK WIDE TIP MARKER, INDICATE ON THE COVER OF EACH JUNCTION AND PULL BOX THE DESIGNATION OF EACH CIRCUIT CONTAINED THEREIN.
- 2.4 ELECTRICAL CONNECTIONS FOR EQUIPMENT
- A. FOR EACH ELECTRICAL CONNECTION PROVIDE COMPLETE ASSEMBLY OF MATERIALS AND TO COMPLETE SPLICES AND TERMINATIONS.
 - B. PROVIDE FITTINGS OF TYPES, GRADES, SIZES REQUIRED FOR EACH TYPE SERVICE.
 - C. PROVIDE ELECTRICAL CONNECTORS AND TERMINALS WHICH ARE RECOMMENDED BY EQUIPMENT MANUFACTURER FOR INTENDED APPLICATIONS.
 - D. PROVIDE ELECTRICAL INSULATING TAPE, HEAT-SHRINKABLE INSULATING TUBING AND BOOTS, WIRENUTS AND CABLE TIES AS RECOMMENDED FOR USE BY ACCESSORIES MANUFACTURERS.
 - E. INSTALL ELECTRICAL CONNECTIONS IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S INSTRUCTIONS AND RECOGNIZED INDUSTRY PRACTICES.
 - F. MATCH CONDUCTORS OF ELECTRICAL CONNECTIONS FOR PROPER INTERFACE BETWEEN ELECTRICAL POWER SUPPLIES AND INSTALLED EQUIPMENT.
 - G. COVER SPLICES WITH ELECTRICAL INSULATING MATERIAL.
 - H. PREPARE CABLES AND WIRES BY CUTTING AND STRIPPING COVERING.
 - I. TIGHTEN CONNECTORS AND TERMINALS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH EQUIPMENT MANUFACTURERS PUBLISHED TORQUE TIGHTENING VALUES FOR EQUIPMENT CONNECTIONS.

- DIVISION 16 - ELECTRICAL
- 16010 - BASIC ELECTRICAL REQUIREMENTS
- 1.1 QUALITY ASSURANCE
- A. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AND AGENCIES:
 1. THE NATIONAL ELECTRICAL CODE (NFPA 70), 2017 EDITION WITH GEORGIA AMENDMENTS.
 2. THE INTERNATIONAL FIRE CODE, 2018 EDITION.
 3. THE LIFE SAFETY CODE (NFPA 101), 2018 EDITION.
 4. THE INTERNATIONAL BUILDING CODE, 2018 EDITION WITH GEORGIA AMENDMENTS.
 5. STATE AND LOCAL ORDINANCES GOVERNING ELECTRICAL WORK.
 - B. ALL MATERIALS SHALL BE NEW AND SHALL CONFORM TO STANDARDS WHERE SUCH HAVE BEEN ESTABLISHED FOR THE PARTICULAR MATERIAL.
- 1.2 PERMITS
- A. OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED FOR THE WORK INVOLVED.
- 1.3 WARRANTY
- A. THE CONTRACTOR SHALL WARRANT TO THE OWNER THAT ALL WORK SHALL BE FREE FROM DEFECTS AND WILL CONFORM TO THE CONTRACT DOCUMENTS. THIS WARRANTY SHALL EXTEND NOT LESS THAN ONE YEAR FROM THE DATE OF BENEFICIAL OCCUPANCY.
- 1.4 DRAWINGS
- A. COORDINATE INSTALLATION OF EQUIPMENT WITH ALL OTHER TRADES. DO NOT SCALE DRAWINGS FOR CONNECTION LOCATIONS. BRING ALL DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
 - B. CONTRACTOR SHALL INSTALL AND CIRCUIT ALL ELECTRICAL WORK AS INDICATED ON DRAWINGS UNLESS SPECIFIC BUILDING CONSTRUCTION REQUIRES A CHANGE OR REROUTING OF THIS WORK.
- 1.5 EQUIPMENT REQUIRING ELECTRICAL SERVICE
- A. REVIEW ALL SPECIFICATIONS SECTIONS AND DRAWINGS FOR EQUIPMENT REQUIRING ELECTRICAL SERVICE. PROVIDE SERVICE TO AND MAKE CONNECTIONS TO ALL SUCH EQUIPMENT.
 - B. CATALOG NUMBERS INDICATED WITH EQUIPMENT, DEVICES AND LIGHTING FIXTURES ARE FOR CONVENIENCE ONLY. ERRORS AND OBSOLESCENCE SHALL NOT RELIEVE THE FURNISHING OF ITEMS WHICH MEET THE TECHNICAL DESCRIPTION GIVEN IN SPECIFICATIONS, NOTED, OR REQUIRED BY FUNCTION DESIGNATED.
- 1.6 MECHANICAL SYSTEM INTERFACE
- A. ALL CONTROL WIRING FOR PLUMBING AND HVAC EQUIPMENT SHALL BE INSTALLED UNDER DIVISION 1500. POWER WIRING TO ALL MOTORS AND MOTOR CONTROLLERS AND BETWEEN MOTORS AND CONTROLLERS SHALL BE PROVIDED UNDER DIVISION 16000. ALL MOTOR CONTROLLERS SHALL BE FURNISHED AND INSTALLED UNDER DIVISION 16000.
- 1.7 SCHEDULING OF OUTAGES
- A. ELECTRICAL WORK REQUIRING INTERRUPTION OF POWER WHICH WOULD ADVERSELY AFFECT THE NORMAL OPERATION OF OTHER PORTIONS OF THE OWNER'S PROPERTY, SHALL BE DONE AT OTHER THAN NORMAL WORKING HOURS. SCHEDULE THE INTERRUPTION OF ELECTRICAL POWER THREE WORKING DAYS PRIOR TO ACTUAL SHUTDOWN.
- 1.8 SITE INVESTIGATION AND RENOVATION CONDITIONS
- A. PRIOR TO SUBMITTING BIDS FOR THE PROJECT, VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS. THE PROJECT SHALL BE RESTORED TO ITS EXISTING CONDITION, WITH THE EXCEPTION OF WORK UNDER THIS CONTRACT, PRIOR TO FINAL PAYMENT.
 - B. PROVIDE ADDITIONS AND ALTERATIONS TO EXISTING WORK REQUIRED TO PRODUCE COMPLETE ELECTRICAL INSTALLATION. RELOCATE EXISTING ELECTRICAL WORK FOR OTHER TRADES REQUIRED TO COMPLETE THE WORK AND TO MAINTAIN BUILDING IN SERVICE. PROVIDE FOR THE REMOVAL, REINSTALLATION, RECONNECTION OR RELOCATION OF EXISTING CIRCUIT WIRING, WIRING DEVICES, LIGHTING FIXTURES, ETC., NECESSITATED BY THE NEW WORK, IF ANY PORTION OF AN EXISTING CIRCUIT IS IN AN AREA WHERE NO NEW WORK IS BEING DONE, BUT IS MADE ELECTRICALLY DISCONTINUOUS BY THE NEW WORK. IT SHALL BE RE-CIRCUITED TO MAINTAIN ELECTRICAL CONTINUITY, CUTTING, CHANNELING, CHASING, OR DRILLING OF WALL, PARTITIONS, CEILINGS, OR OTHER SURFACES AND SUPPORT, OR ANCHORAGE OF CONDUIT, OR OTHER ELECTRICAL WORK SHALL BE DOWN WITHOUT DAMAGE TO OTHER PIPING OR BUILDING EQUIPMENT. EXISTING SURFACES SHALL THEN BE PATCHED AND PAINTED TO MATCH THE SURROUNDING AREAS.
- 1.9 CLEANING AND PAINTING
- A. REMOVE OIL, DIRT, GREASE AND FOREIGN MATERIALS FROM ALL EQUIPMENT, TOUCH UP SCRATCHED OR MARRED SURFACES, AND LIGHTING FIXTURES, PANELBOARD AND CABINET TRIMS, AND EQUIPMENT ENCLOSURES WITH PAINT MANUFACTURED SPECIFICALLY FOR THAT PURPOSE.

- 16100 - BASIC MATERIALS
- 2.1 RACEWAYS
- A. RACEWAY IS REQUIRED FOR ALL WIRING, UNLESS SPECIFICALLY INDICATED OR SPECIFIED OTHERWISE. THE MINIMUM SIZE OF CONDUIT SHALL BE 1/2", BUT SHALL BE NOT LESS THAN SIZE INDICATED ON THE DRAWINGS OR REQUIRED BY THE NEC.
 - B. CONDUITS SHALL BE ELECTRICAL METALLIC TUBING (EMT) EXCEPT FOR THE FOLLOWING CONDITIONS:
 1. CONDUITS WHICH PENETRATE THE BUILDING ROOF OR EXTERIOR SHALL BE GALVANIZED RIGID STEEL (GRS) OR INTERMEDIATE METAL CONDUIT (IMC).
 2. USE FLEXIBLE CONDUIT FOR CONNECTIONS TO MOTORS, FLUSH MOUNTED LIGHTING FIXTURES, AND ALL VIBRATING EQUIPMENT.
 - A. LENGTH SHALL NOT EXCEED 18", EXCEPT LENGTHS UP TO 6'-0" MAY BE USED FOR LIGHTING FIXTURES.
 - B. MAINTAIN GROUND CONTINUITY THROUGH FLEXIBLE CONDUIT WITH A GREEN EQUIPMENT GROUNDING CONDUCTOR.
 3. CONDUITS INSTALLED WITHIN CONCRETE SLABS SHALL BE GRS, IMC, OR SCHEDULE 40 HEAVY WALL PVC, WHERE TRANSITION IS MADE FROM BELOW EARTH TO ANY TYPE OF RACEWAY OUT OF EARTH, MAKE TRANSITION WITH A FULLY TAPED RIGID GALVANIZED OR IMC ELBOW.
 4. CONDUITS INSTALLED IN DIRECT CONTACT WITH EARTH SHALL BE SCHEDULE 40 HEAVY WALL PVC, WHERE TRANSITION IS MADE FROM BELOW EARTH TO ANY TYPE OF RACEWAY OUT OF EARTH, MAKE TRANSITION WITH A RIGID GALVANIZED OR IMC FULLY TAPED ELBOW.
 - C. EMT CONDUIT COUPLINGS AND CONNECTORS SHALL BE STEEL RAIN-TIGHT TYPE, COMPRESSION TYPE. ALL EMT CONNECTORS SHALL BE INSULATED THROAT TYPE. GRS AND IMC FITTINGS SHALL BE STANDARD THREADED COUPLINGS, LOCKNUTS, BUSHINGS, AND ELBOWS. ALL GRS AND IMC FITTINGS SHALL BE STEEL OR MALLEABLE IRON; SET SCREW OR NON THREADED FITTINGS ARE NOT PERMITTED. NON-METALLIC CONDUIT FITTINGS SHALL BE OF THE SAME MATERIAL AS THE CONDUIT FURNISHED AND SHALL BE THE PRODUCT OF THE SAME MANUFACTURER.

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ALTERATIONS/ RENOVATION TO
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ADMINISTRATION BUILDING
SPRINGFIELD, GEORGIA

PANEL SCHEDULES
AND ONE-LINE
DIAGRAM

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SCHEDULE PANELBOARD B SECTION 1 EXISTING SIEMENS

MAINS		VOLTAGE		PHASE		WIRE		MOUNTING			
250 MLO		120/208		3		4		SURFACE			
								SIEMENS P1			
CIR.	TRIP/POLE	KVA	DESCRIPTION	CONNECTED LOAD KVA	PH. A	PH. B	PH. C	DESCRIPTION	KVA	TRIP/POLE	CIR. #
1	20/1	1.20	LIGHTING	1.9				EF-1 1/4 HP	0.70	20/1	2
3	20/1	1.00	LIGHTING					REC (8)	1.40	20/1	4
5	20/1	1.20	LIGHTING					REC (8)	1.40	20/1	6
7	20/1	1.00	AHU LIGHTING	2.3				REC (7)	1.30	20/1	8
9	20/1		EMERG LIGHTING					SPARE NOTE 15	0.80	20/1	10
11	20/1	0.50	PANEL RM REC (1)					AHU-2	1.70	20/1	12
13	40/2	3.30	KITCHEN RANGE	5.0				AHU-2	1.70	20/1	14
15	-	3.30	KITCHEN RANGE					SPARE NOTE 15	2.30	30/2	16
17	20/1	1.10	RECEPTACLES					RECEPTACLES	2.30	-	18
19	20/1	1.10	RECEPTACLES	3.0				SPARE NOTE 15	1.90	25/2	20
21	20/1	1.40	RECEPTACLES					SPARE NOTE 15	1.90	-	22
23	20/1	1.40	RECEPTACLES					AHU-1 24MCA	2.00	25/2	24
25	20/1	1.40	RECEPTACLES	3.4				AHU-1 24MCA	2.00	-	26
27	20/1	1.50	COUNTER RECEP					AHU-3 26MCA	2.20	30/2	28
29	20/1	1.50	MW					AHU-3 26MCA	2.20	-	30
31	20/1	1.50	REF	3.7				AHU-4 26MCA	2.20	30/2	32
33	20/1	1.50	UC REF & COUNTER RECEP					AHU-4 26MCA	2.20	-	34
35	20/1	1.50	MW					AHU-6 39MCA	3.20	40/2	36
37	20/1	1.50	CORPER	4.7				AHU-6 39MCA	3.20	-	38
39	20/1	1.40	RECEPTACLES					AHU-7 39MCA	3.20	40/2	40
41	20/1	1.40	RECEPTACLES					AHU-7 39MCA	3.20	-	42
MIN. BREAKER AIC:			35.000	24.0	24.1	24.6		TOTAL CONNECTED LOAD	72.7		
NOTES:		6, 9, 10, 11, 17		21.1	20.9	22.3		TOTAL DEMAND LOAD	64.3		

SCHEDULE PANELBOARD B SECTION 2 NEW SIEMENS

MAINS		VOLTAGE		PHASE		WIRE		MOUNTING			
250 MLO		120/208		3		4		SURFACE			
								SIEMENS P1			
CIR.	TRIP/POLE	KVA	DESCRIPTION	CONNECTED LOAD KVA	PH. A	PH. B	PH. C	DESCRIPTION	KVA	TRIP/POLE	CIR. #
43	20/1	0.72	RECEPTACLES	2.2				DISHWASHER	1.50	20/1	44
45	20/1	1.10	RECEPTACLES					SPARE		20/1	46
47	20/1	1.50	COMM BACKBOARD					SPARE		20/1	48
49	20/1		SPARE	0.0				SPARE		20/1	50
51	20/1		SPARE					SPARE		20/1	52
53	20/1		SPARE					SPARE		20/1	54
55	-/1		SPACE	0.0				SPACE		-/1	58
57	-/1		SPACE					SPACE		-/1	58
59	-/1		SPACE					SPACE		-/1	60
61	-/1		SPACE	0.0				SPACE		-/1	62
63	-/1		SPACE					SPACE		-/1	64
65	-/1		SPACE					SPACE		-/1	66
67	-/1		SPACE	0.0				SPACE		-/1	68
69	-/1		SPACE					SPACE		-/1	70
71	-/1		SPACE					SPACE		-/1	72
73	-/1		SPACE	0.0				SPACE		-/1	74
75	-/1		SPACE					SPACE		-/1	76
77	-/1		SPACE					SPACE		-/1	78
79	-/1		SPACE	0.0				SPACE		-/1	80
81	-/1		SPACE					SPACE		-/1	82
83	-/1		SPACE					SPACE		-/1	84
MIN. BREAKER AIC:			TYPE HBL 35,000	26.2	25.2	26.1		TOTAL CONNECTED LOAD	77.52		
NOTES:		1 TO 11	MATCH EXIST. STYLE	23.1	21.7	23.8		TOTAL DEMAND LOAD	68.574		

SCHEDULE PANELBOARD MDP EXISTING SIEMENS

MAINS		VOLTAGE		PHASE		WIRE		MOUNTING			
600 MB		120/208		3		4		SURFACE			
								TVSS AT TOP			
CIR.	TRIP/POLE	KVA	DESCRIPTION	CONNECTED LOAD KVA	PH. A	PH. B	PH. C	DESCRIPTION	KVA	TRIP/POLE	CIR. #
1	-/1		SPACE	0.0				SPACE		-/1	2
3	30/2	1.50	A/C 1					A/C 5 NOTE 12	2.50	40/2	4
5	-	1.50	A/C 1					A/C 5	2.50	-	6
7	40/2	2.00	A/C 3					SPACE		-/3	8
9	-	2.00	A/C 3					SPACE		-	10
11	-/1		SPACE					SPACE		-	12
13	15/2	0.83	A/C 2					A/C 8	1.23	20/2	14
15	-	0.83	A/C 2					A/C 8	1.23	-	16
17	-/1		SPACE					WATER HEATER NOTE 16	2.30	30/2	18
19	-/1		SPACE					WATER HEATER NOTE 16	2.30	-	20
21	40/2	2.00	A/C 4					A/C 6	3.10	60/2	22
23	-	2.00	A/C 4					A/C 6	3.10	-	24
25	-/1		SPACE	0.0				SPACE		-/3	26
27	60/2	3.10	A/C 7					SPACE		-	28
29	-	3.10	A/C 7					SPACE		-	30
31	70/3	5.30	PANEL MA NOTE 13						3.00	40/3	32
33	-	6.40	PANEL MA						9.4	-	34
35	-	4.10	PANEL MA						7.1	-	36
37	125/3	7.50	ELEVATOR (20HP)					PANEL B 2ND FL	22.00	225/3	38
39	-	7.50	ELEVATOR (20HP)					PANEL B 2ND FL	22.00	-	40
41	-	7.50	ELEVATOR (20HP)					PANEL B 2ND FL	24.00	-	42
43	300/3	29.00	PANEL A-1 A-2					UNUSABLE		X	44
45	-	29.00	PANEL A-1 A-2					UNUSABLE		X	46
47	-	29.00	PANEL A-1 A-2					UNUSABLE		X	48
49	70/3	6.40	PANEL MB NOTE 13					PANEL MC NOTE 14	9.40	100/3	50
51	-	6.40	PANEL MB					PANEL MC	4.70	-	52
53	-	6.40	PANEL MB					PANEL MC	4.70	-	54
MIN. BREAKER AIC:			35,000	89.0	95.3	93.2		TOTAL CONNECTED LOAD	277.42		
NOTES:		6, 9, 10, 11, 17		65.9	71.7	69.8		TOTAL DEMAND LOAD	207.358		

SCHEDULE PANELBOARD MA NEW SIEMENS

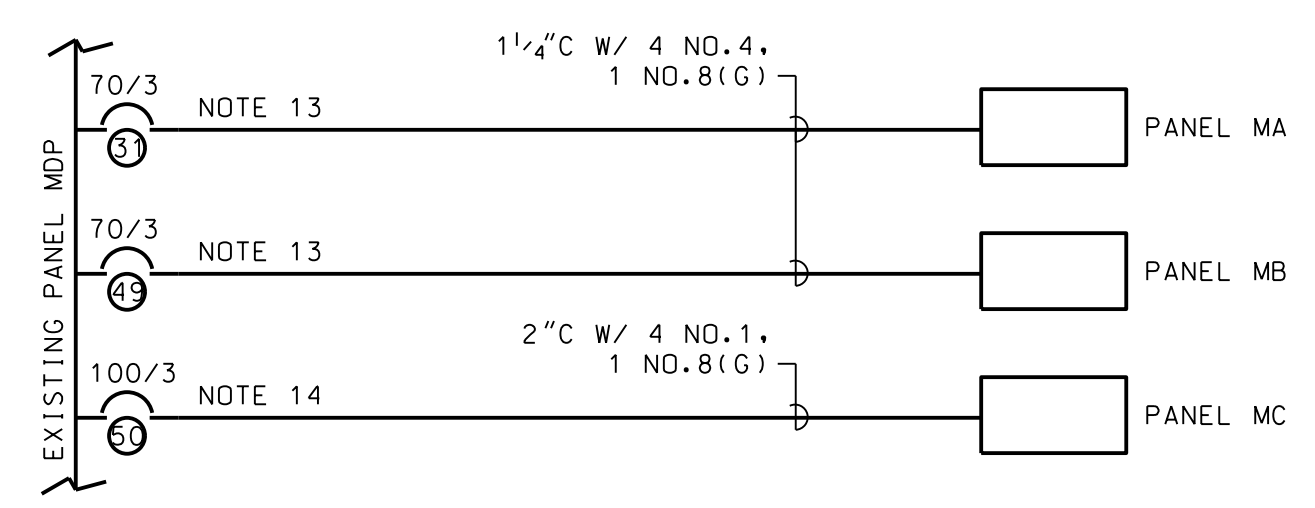
MAINS		VOLTAGE		PHASE		WIRE		MOUNTING			
100 MLO		120/208		3		4		SURFACE			
								NEMA 3R			
CIR.	TRIP/POLE	KVA	DESCRIPTION	CONNECTED LOAD KVA	PH. A	PH. B	PH. C	DESCRIPTION	KVA	TRIP/POLE	CIR. #
1	30/2	1.90	HR-9					HR-10	1.90	30/2	2
3	LT	1.90	HR-9					HR-10	1.90	LT	4
5	20/1	0.60	RECEPTACLE					HR-11	1.50	25/2	6
7	-/1		SPACE	1.5				HR-11	1.50	LT	8
9	-/2		SPACE					HR-12	2.60	40/2	10
11	-		SPACE					HR-12	2.60	LT	12
MIN. BREAKER AIC:			35,000	5.3	6.4	4.7		TOTAL CONNECTED LOAD	16.4		
NOTES:		LT-LOCKOUT TAB	1 TO 11	5.3	6.4	4.7		TOTAL DEMAND LOAD	16.4		

SCHEDULE PANELBOARD MB NEW SIEMENS

MAINS		VOLTAGE		PHASE		WIRE		MOUNTING			
100 MLO		120/208		3		4		FLUSH			
CIR.	TRIP/POLE	KVA	DESCRIPTION	CONNECTED LOAD KVA	PH. A	PH. B	PH. C	DESCRIPTION	KVA	TRIP/POLE	CIR. #
1	35/2	3.20	AHU-9					SPACE		-/1	2
3	-	3.20	AHU-9					SPACE		-/1	4
5	35/2	3.20	AHU-10					SPACE		-/1	6
7	-	3.20	AHU-10					SPACE		-/1	8
9	35/2	3.20	AHU-11					SPACE		-/1	10
11	-	3.20	AHU-11					SPACE		-/1	12
MIN. BREAKER AIC:			35,000	6.4	6.4	6.4		TOTAL CONNECTED LOAD	19.2		
NOTES:		1 TO 11		6.4	6.4	6.4		TOTAL DEMAND LOAD	19.2		

SCHEDULE PANELBOARD MC NEW SIEMENS

MAINS		VOLTAGE		PHASE		WIRE		MOUNTING			
100 MLO		120/208		3		4		FLUSH			
CIR.	TRIP/POLE	KVA	DESCRIPTION	CONNECTED LOAD KVA	PH. A	PH. B	PH. C	DESCRIPTION	KVA	TRIP/POLE	CIR. #
1	45/2	4.70	AHU-5					SPACE		-/1	2
3	-	4.70	AHU-5					SPACE		-/1	4
5	45/2	4.70	AHU-12					SPACE		-/1	6
7	-	4.70	AHU-12					SPACE		-/1	8
9	-/2		SPACE					SPACE		-/1	10
11	-		SPACE					SPACE		-/1	12
MIN. BREAKER AIC:			35,000	9.4	4.7	4.7		TOTAL CONNECTED LOAD	18.8		
NOTES:		1 TO 11		9.4	4.7	4.7		TOTAL DEMAND LOAD	18.8		



1 PARTIAL ONE-LINE DIAGRAM - MDP
SCALE: SCHEMATIC

NOTES: (PANEL BOARD SCHEDULES)

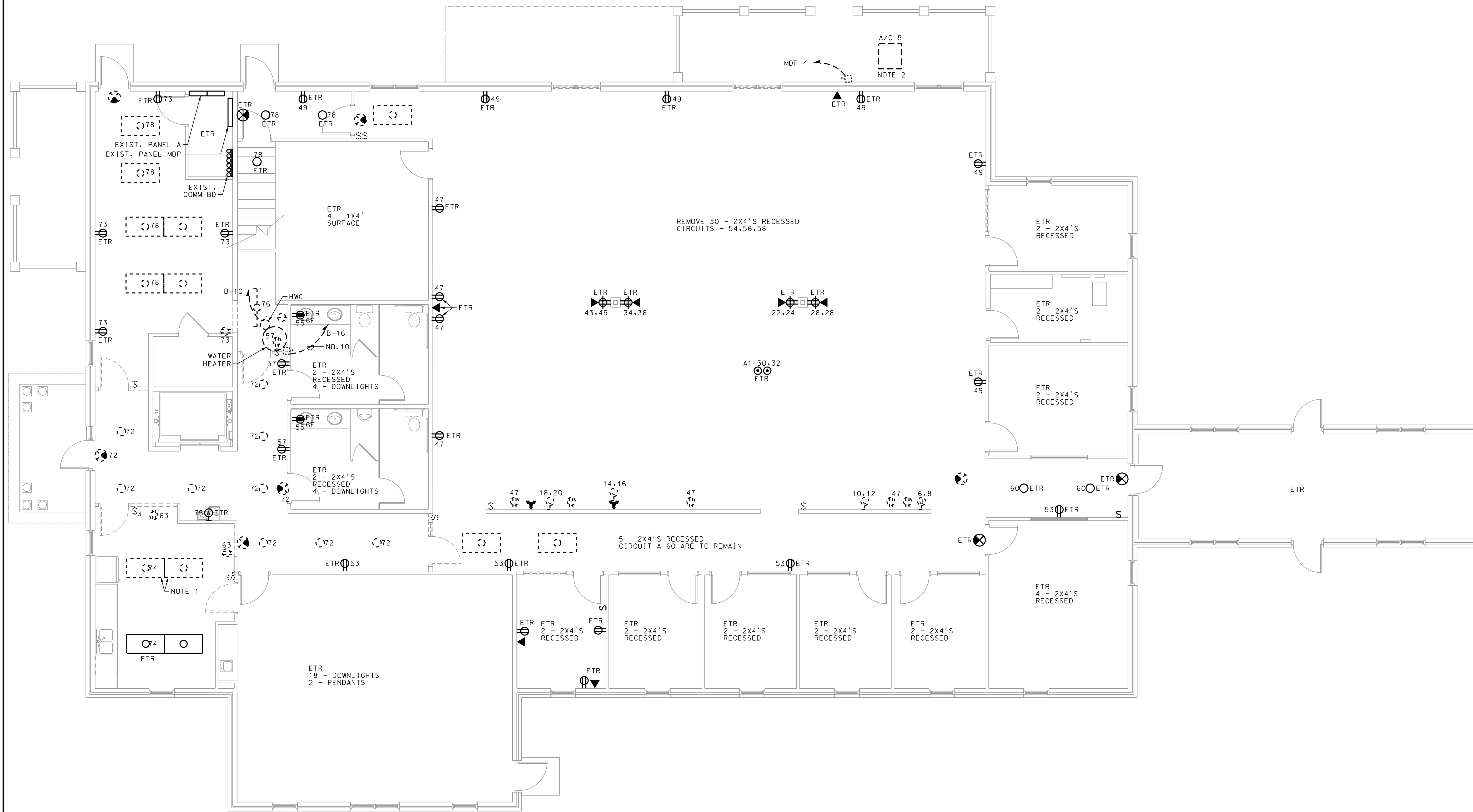
- GROUND BARS SHALL BE FACTORY BRAZED OR RIVETED OR INSTALLED ON STUDS BOLTED TO PANEL ENCLOSURES.
- PANELBOARD DIRECTORY HOLDERS SHALL BE METAL WITH CLEAR PLASTIC DIRECTORY COVERS.
- PROVIDE HANDLE LOCK-OFF (LTO) DEVICES ON ALL BREAKER FOR FIRE ALARM CONTROL PANEL, SECURITY ALARM SYSTEMS, AND COMMUNICATION SYSTEMS CIRCUITS. PAINT FIRE ALARM CONTROL PANEL AND REMOTE POWER SUPPLIES CIRCUIT BREAKERS. RED IDENTIFY AS "FIRE ALARM CIRCUIT". AS REQUIRED BY NFPA 72, THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL PANEL. FIELD VERIFY BRANCH CIRCUITS CONNECTING FIRE ALARM CONTROL EQUIPMENT.
- PANELS SHALL BE DOOR-IN-DOOR HINGED COVER TRIM TYPE CONSTRUCTION.
- PROVIDE GROUND FAULT CIRCUIT BREAKERS FOR ALL WATER COOLERS AND VENDING EQUIPMENT.
- ALL CIRCUIT BREAKERS SERVING MECHANICAL EQUIPMENT SHALL BE HACR TYPE. FIELD VERIFY BRANCH CIRCUITS SERVING MECHANICAL EQUIPMENT AND PROVIDE HACR BREAKERS ACCORDINGLY.
- MULTIPLE BRANCH CIRCUITS (3 MAX) INSTALLED IN COMMON RACEWAY SHALL HAVE BRANCH CIRCUIT BREAKERS EQUIPPED WITH AN IDENTIFIED TIE HANDLE PER NEC 210.4 (B) OR SHALL BE MULTIPLE POLE TYPE OR SHALL BE PROVIDED WITH SEPARATE NEUTRALS FOR EACH PHASE CONDUCTOR. THE UNGROUNDED AND GROUNDED CIRCUIT CONDUCTORS (NEUTRALS) SHALL BE GROUPED TOGETHER WITH TIE WRAPS INDEPENDENT OF OTHER CIRCUIT CONDUCTORS.
- FOR ALL FLUSH MOUNTED PANELBOARDS, STUB OUT 4 - 3/4" CONDUITS TO AN ACCESSIBLE CEILING SPACE.
- FURNISH AND INSTALL ARC FLASH HAZARD WARNING LABELS PER NEC 110.16.
- SERIES RATED CIRCUIT BREAKER COMBINATIONS ARE NOT ACCEPTABLE.
- GROUNDED CONDUCTORS (NEUTRALS) WITHIN ENCLOSURES SHALL BE IDENTIFIED PER NEC 200.6 (A) & (B).
- REPLACE EXISTING 15/2 BREAKER WITH 40/2 BREAKER AIC RATING OF 35K.
- FURNISH AND INSTALL IN AVAILABLE SPACE A 70/3 HBL BREAKER AIC RATING OF 35K.
- FURNISH AND INSTALL IN AVAILABLE SPACE A 100/3 HBL BREAKER AIC RATING OF 35K.
- CIRCUIT BECOMES A SPARE.
- FURNISH AND INSTALL IN AVAILABLE SPACE A 30/2 HBL BREAKER AIC RATING OF 35K.
- FURNISH AND INSTALL NEW TYPED CIRCUIT DIRECTORY.



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NOTES:

1. REMOVE & RELOCATE & RECONNECT.
2. REMOVE EXIST DISCONNECT SWITCH AND BRANCH CIRCUIT BACK TO EXIST PANEL MDP.



ALTERATIONS/ RENOVATION TO
**EFFINGHAM COUNTY
ADMINISTRATION BUILDING**
SPRINGFIELD, GEORGIA

**SOUTH BUILDING
FIRST FLOOR -
DEMOLITION PLAN**

REVISIONS

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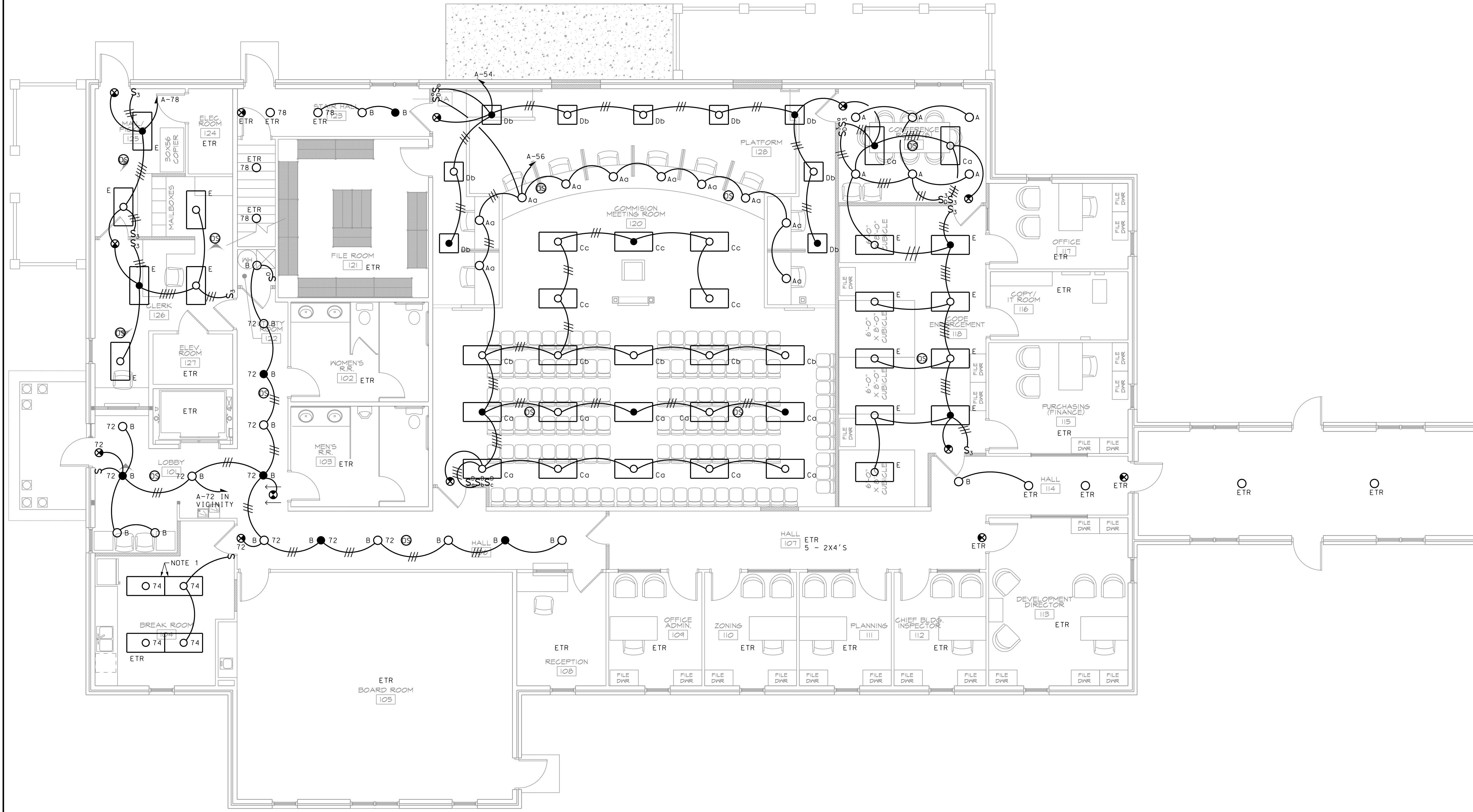
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NOTES:

1. EXISTING REMOVED, RELOCATED & RECONNECTED.



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ALTERATIONS/ RENOVATION TO
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SPRINGFIELD, GEORGIA

**SOUTH BUILDING
FIRST FLOOR -
LIGHTING PLAN**

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SOUTH BUILDING FIRST FLOOR - LIGHTING PLAN
SCALE: 3/16" = 1'-0"

E1.2



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ALTERATIONS/ RENOVATION TO
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**SOUTH BUILDING
FIRST FLOOR -
POWER/COMM PLAN**

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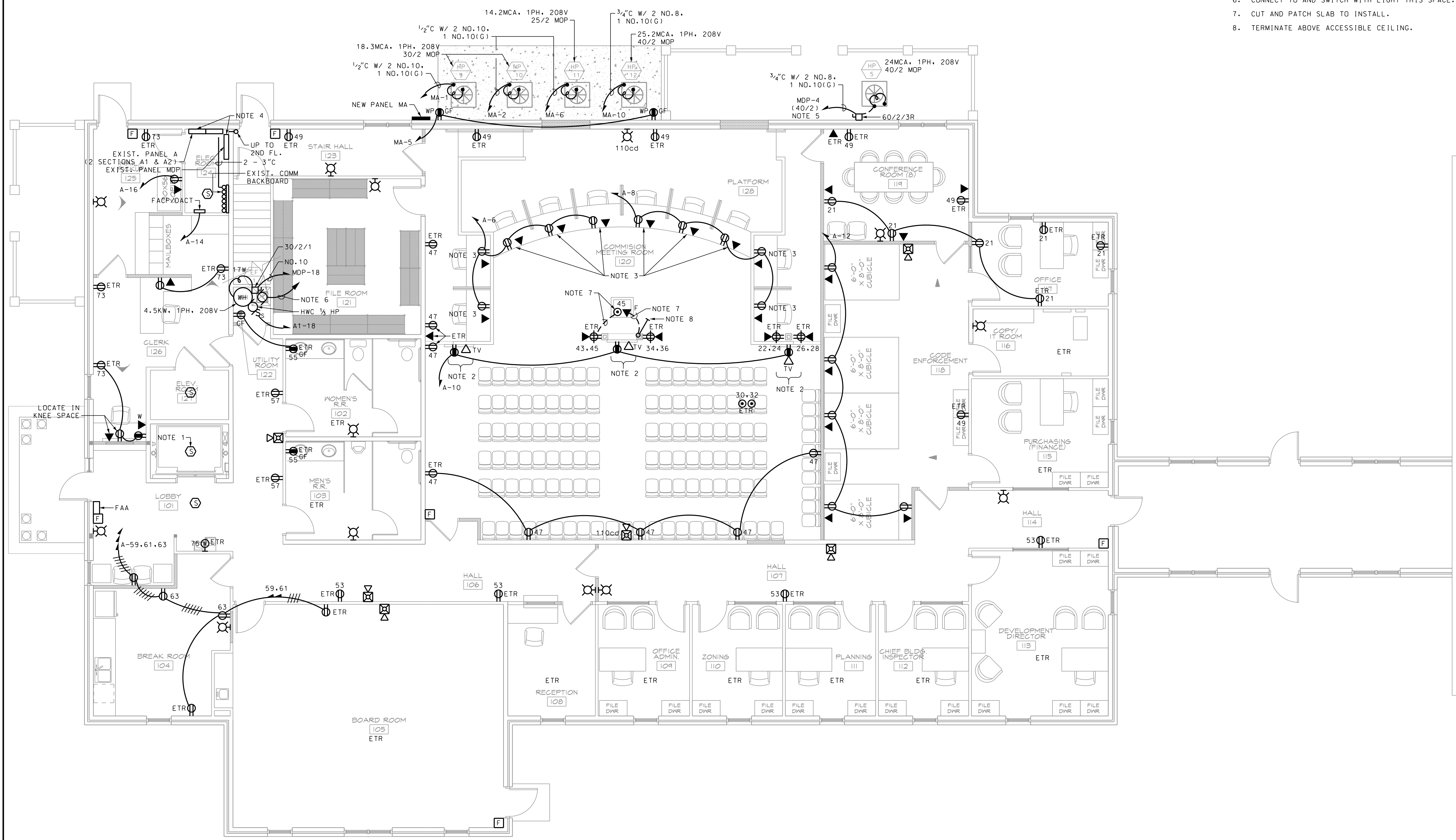
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E1.3

NOTES:

1. LOCATE IN PIT.
2. COORDINATE MOUNTING HEIGHT WITH ARCH. ELEVATIONS.
3. LOCATE IN KNEE SPACE.
4. FURNISH AND INSTALL NEW TYPED CIRCUIT DIRECTORIES TO REFLECT ALL FIELD CHANGES AND EXISTING CIRCUITS REMAINING.
5. REMOVE EXISTING 15/2 CIRCUIT BREAKER. FURNISH AND INTALL NEW 40/2 CIRCUIT BREAKER.
6. CONNECT TO AND SWITCH WITH LIGHT THIS SPACE.
7. CUT AND PATCH SLAB TO INSTALL.
8. TERMINATE ABOVE ACCESSIBLE CEILING.



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SOUTH BUILDING FIRST FLOOR - POWER/COMMUNICATION PLAN
SCALE: 3/16" = 1'-0"

NOTES:

1. MAINTAIN LIGHTING AND MAINTENANCE RECEPTACLES AT EXISTING AHU LOCATIONS.
2. REMOVE EXISTING DISCONNECT SWITCH AND BRANCH CIRCUIT BACK TO EXIST. PANEL B.



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ALTERATIONS/ RENOVATION TO
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 SPRINGFIELD, GEORGIA

**SOUTH BUILDING
 SECOND FLOOR -
 DEMOLITION PLAN**

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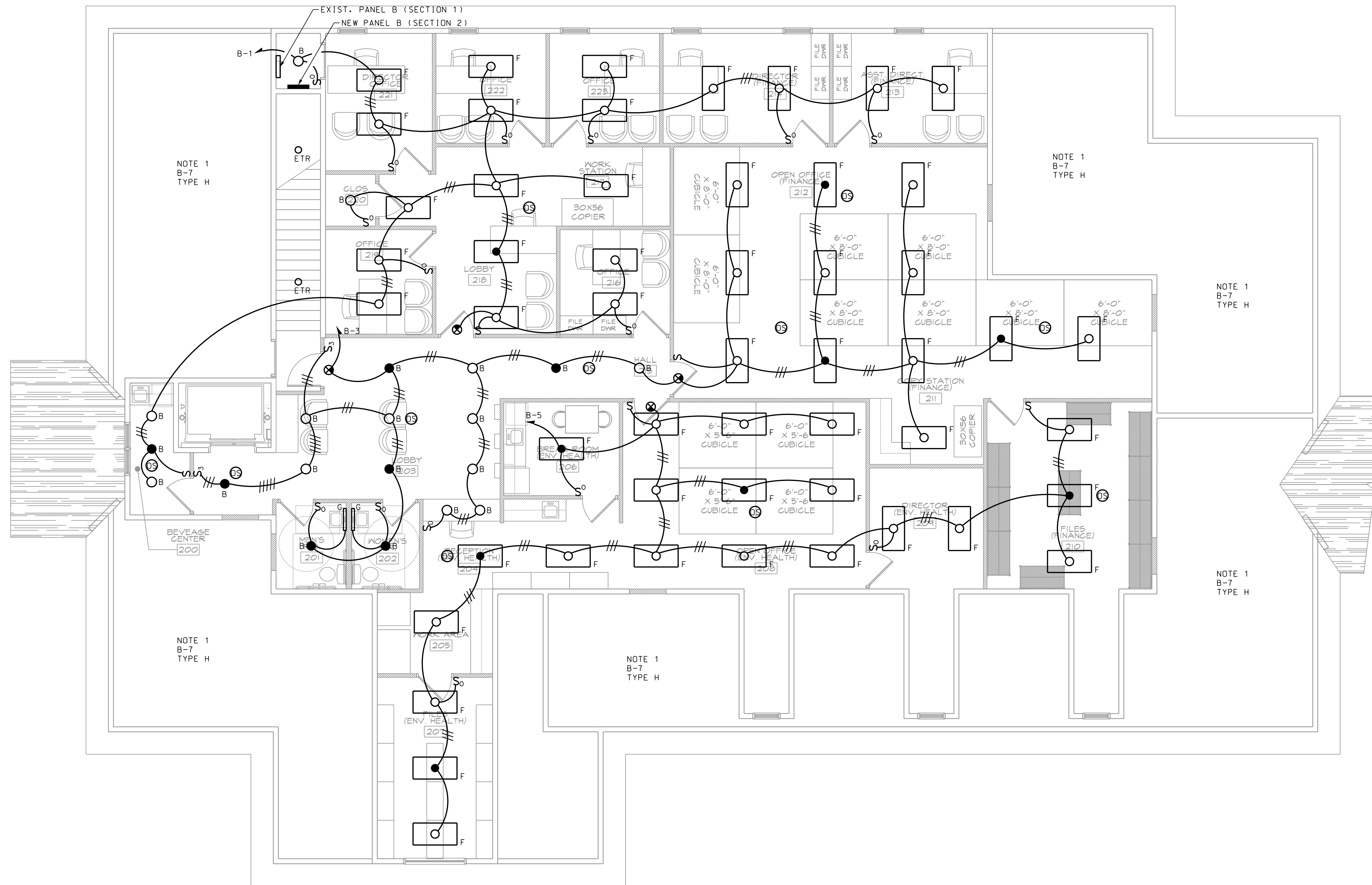
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NOTES:

1. MAINTAIN EXISTING LIGHTING CIRCUIT B-7 AT AIR UNITS. REMOVE EXISTING FLUORESCENTS AND REPLACE WITH TYPE H. REPLACE 14 TOTAL APPROXIMATELY 2 LOCATED AT EACH AHU. FIELD VERIFY PRIOR TO ORDERING FIXTURES.



ALTERATIONS/ RENOVATION TO
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ADMINISTRATION BUILDING**
SPRINGFIELD, GEORGIA

**SOUTH BUILDING
SECOND FLOOR -
LIGHTING PLAN**

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E1.5 SOUTH BUILDING SECOND FLOOR - LIGHTING PLAN
SCALE: 3/16" = 1'-0"

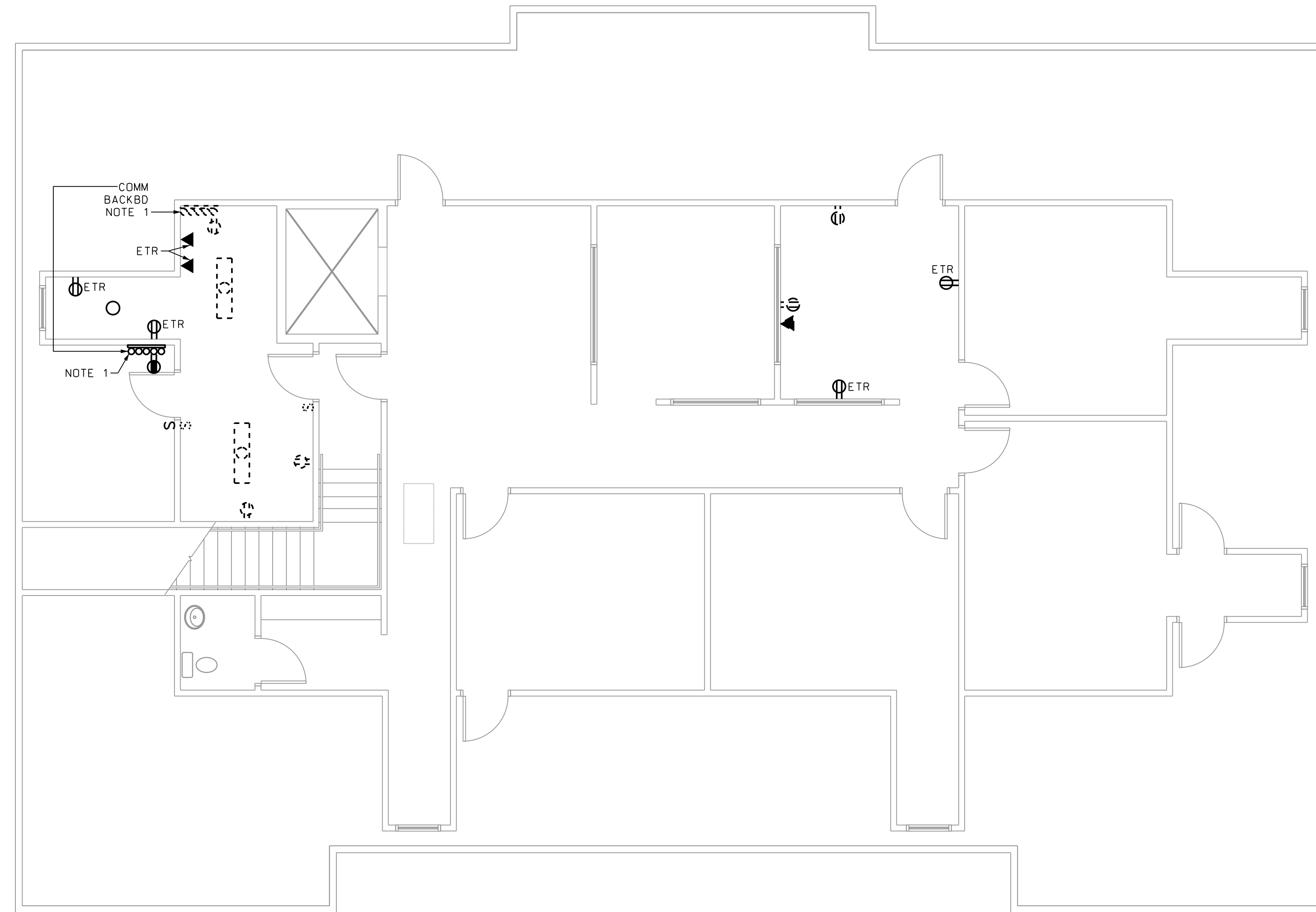
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NOTES:

1. RELOCATE COMM BACKBOARD. POWER AND COMM CONNECTIONS TO THIS LOCATION. FIELD VERIFY POWER AND COMM CONNECTIONS REQUIRED. RECONNECT ALL & MAKE SERVICEABLE AFTER RELOCATION.



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ALTERATIONS/ RENOVATION TO
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NORTH BUILDING
 SECOND FLOOR -
 DEMOLITION PLAN

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3. Do not scale dimensions from prints. Plans and details are not always drawn to scale. Use dimensions given or consult the Architect for further clarification.



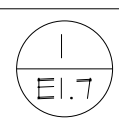
08/14/20

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E1.7

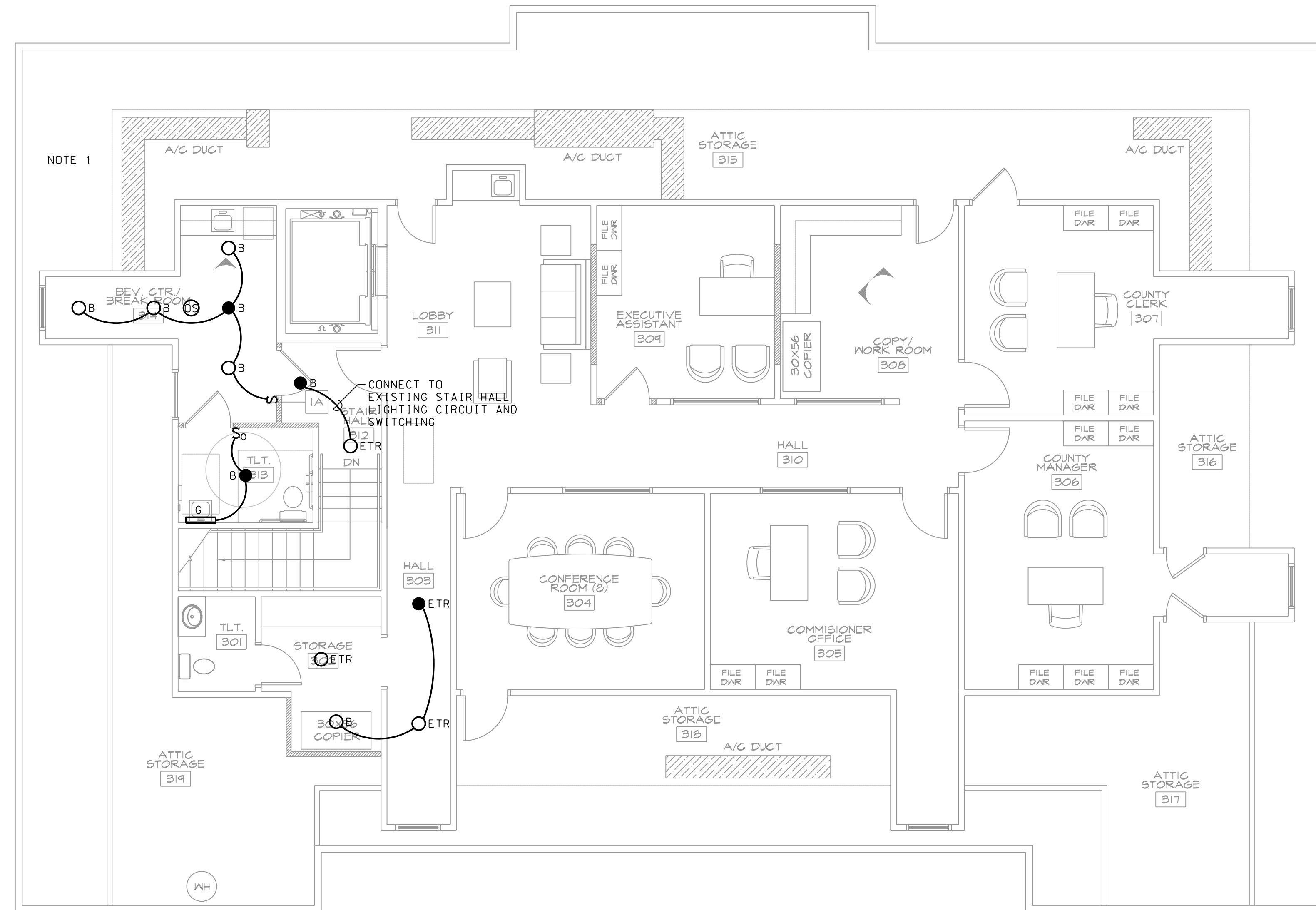


NOTES:

1. ELECTRICAL ROOM 1ST FLOOR THIS VICINITY. FIELD VERIFY.



28 E 35TH ST
SAVANNAH, GA 31401
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ALTERATIONS/ RENOVATION TO
**EFFINGHAM COUNTY
ADMINISTRATION BUILDING**
SPRINGFIELD, GEORGIA

REVISIONS

**NORTH BUILDING
SECOND FLOOR -
LIGHTING PLAN**

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E1.8



NORTH BUILDING SECOND FLOOR - LIGHTING PLAN
SCALE: 3/16" = 1'-0"

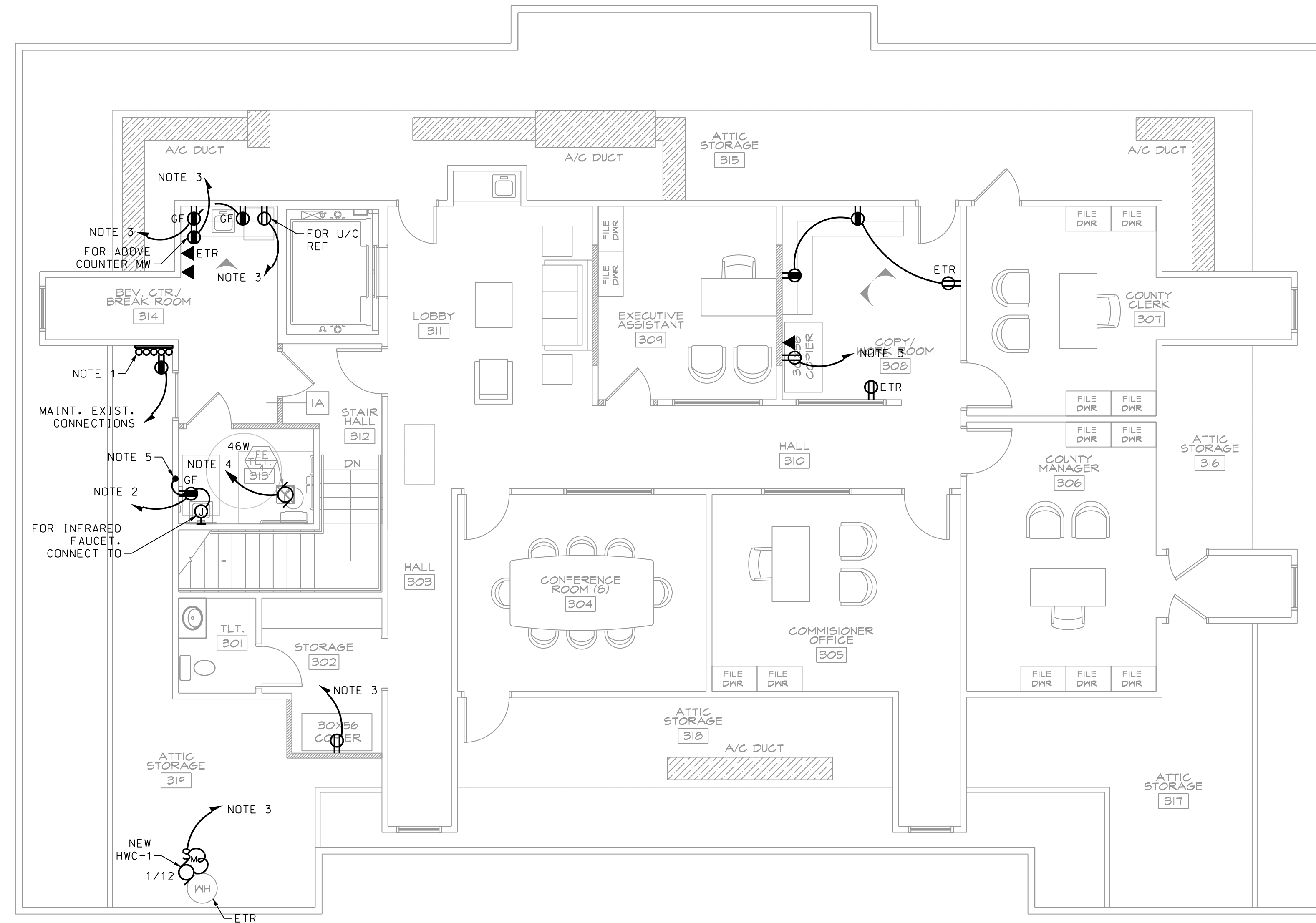
CADD PLOT
14 AUG 2020
11:38
lcauley



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NOTES:

1. RELOCATED COMM BACKBOARD AND CONNECTIONS.
2. CONNECT TO NEAREST EXISTING BRANCH CIRCUIT IN AREA. FIELD VERIFY, TRACE AND LOCATE.
3. CONNECT TO EXISTING SPARE BREAKER (20A/1P) OR FURNISH AND INSTALL IN AVAILABLE SPACE A 20A/1P BREAKER IN EXISTING PANEL SERVING AREA. FIELD LOCATE AND VERIFY PANEL LOCATION WITHIN NORTH BUILDING.
4. CONNECT TO AND SWITCH WITH LIGHT IN SPACE.
5. CONNECT TO TOUCHLESS PTD.



ALTERATIONS/ RENOVATION TO
**EFFINGHAM COUNTY
ADMINISTRATION BUILDING**
SPRINGFIELD, GEORGIA

REVISIONS
NORTH BUILDING
SECOND FLOOR -
POWER/COMM PLAN

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E1.9



NORTH BUILDING SECOND FLOOR - POWER/COMMUNICATION PLAN
SCALE: 3/16"=1'-0"

CADD PLOT
14-AUG-2020
11:38
lcauley