

ACCOMACK COUNTY CIRCUIT COURTHOUSE

EXTERIOR RENOVATION & HVAC REPLACEMENT

ACCOMAC, VA



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PACE COLLABORATIVE

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HBA

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PROJECT NUMBER: 17070.01

DATE: APRIL 19, 2019

SET NUMBER:

BUILDING CODE DATA

APPLICABLE CODES AND REGULATIONS

VIRGINIA UNIFORM STATEWIDE BUILDING CODE, 2009 EDITION

USE GROUP CLASSIFICATION: NONSEPARATED MIXED USE, NO CHANGE
BUSINESS GROUP B
ASSEMBLY GROUP A

CONSTRUCTION TYPE: IIIB, NO CHANGE

AREA: 8810 SF, NO CHANGE

HEIGHT: 2 STORIES, NO CHANGE

ROOF LOAD: 20 PSF

WIND SPEED: 130 MPH (ULT)

WIND EXPOSURE CATEGORY: C

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION AND SHALL COORDINATE THE WORK OF ALL TRADES. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT, IN WRITING, BEFORE CONTINUING WORK.
- UNLESS OTHERWISE INDICATED, EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF FOUNDATION WALL AND CENTERLINE OF STRUCTURAL COLUMNS. INTERIOR DIMENSIONS ARE TO FACE OF FINISHED WALL.
- ALL CONSTRUCTION SHALL CONFORM WITH THE REQUIREMENTS OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE 2009 EDITION WITH 2009 AMENDMENTS AND THE AMERICAN NATIONAL STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (ICC-ANSI A117.1, 2003 EDITION).
- ALL INTERIOR AND EXTERIOR FINISHED SURFACES WHICH ARE DAMAGED WHILE PERFORMING WORK UNDER THIS CONTRACT SHALL BE PATCHED AND/OR REPLACED AND FINISHED TO MATCH ADJACENT AREAS.
- THE CONTRACTOR SHALL TOTALLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND VERIFY ALL CONDITIONS AND DIMENSIONS WHICH AFFECT THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIMENSIONS, ELEVATIONS, AND SEQUENCES OF WORK NECESSARY FOR THE PROPER CONSTRUCTION OF AND ALIGNMENT OF THE NEW PORTIONS OF THE WORK TO THE EXISTING PORTIONS OF THE PROJECT. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR THE PROPER EXECUTION, FABRICATION AND ERECTION OF ALL NEW WORK.
- THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE DOCUMENTS WITH EACH OTHER, AND AT ONCE REPORT TO THE ARCHITECT ANY ERRORS AND INCONSISTENCIES OR OMISSIONS DISCOVERED. IF THE CONTRACTOR PERFORMS ANY CONSTRUCTION ACTIVITY KNOWING IT INVOLVES A RECOGNIZED ERROR, INCONSISTENCY OR OMISSION OF THE CONTRACT DOCUMENTS WITHOUT SUCH NOTICE TO THE ARCHITECT, THE CONTRACTOR SHALL ASSUME APPROPRIATE RESPONSIBILITY FOR SUCH PERFORMANCE AND SHALL BEAR THE AMOUNT OF COST OF THE CONSTRUCTION.
- ALL MATERIALS CALLED OUT ARE NEW UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL SUBMIT A SCHEDULE TO THE COUNTY PRIOR TO THE COMMENCEMENT OF WORK.
- MAINTAIN THE EXISTING BUILDING IN A WEATHER TIGHT CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
- PROTECT ADJACENT SURFACES SCHEDULED TO REMAIN.
- REPAIR DAMAGE CAUSED BY CONSTRUCTION OPERATIONS. TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE BUILDING, ITS OCCUPANTS AND THE OWNER'S EQUIPMENT DURING THE CONSTRUCTION PERIOD.
- PROVIDE LOOSE JOIST HANGERS, ANCHORAGE DEVICES, AND FASTENERS APPROPRIATE TO THE SITUATION AND WHERE NECESSARY FOR FABRICATING AND SECURING ITEMS INTO PLACE.
- PAINT ALL LOOSE JOIST HANGERS, ANCHORAGE DEVICES, AND FASTENERS TO MATCH ADJACENT CONSTRUCTION IF PAINTED.

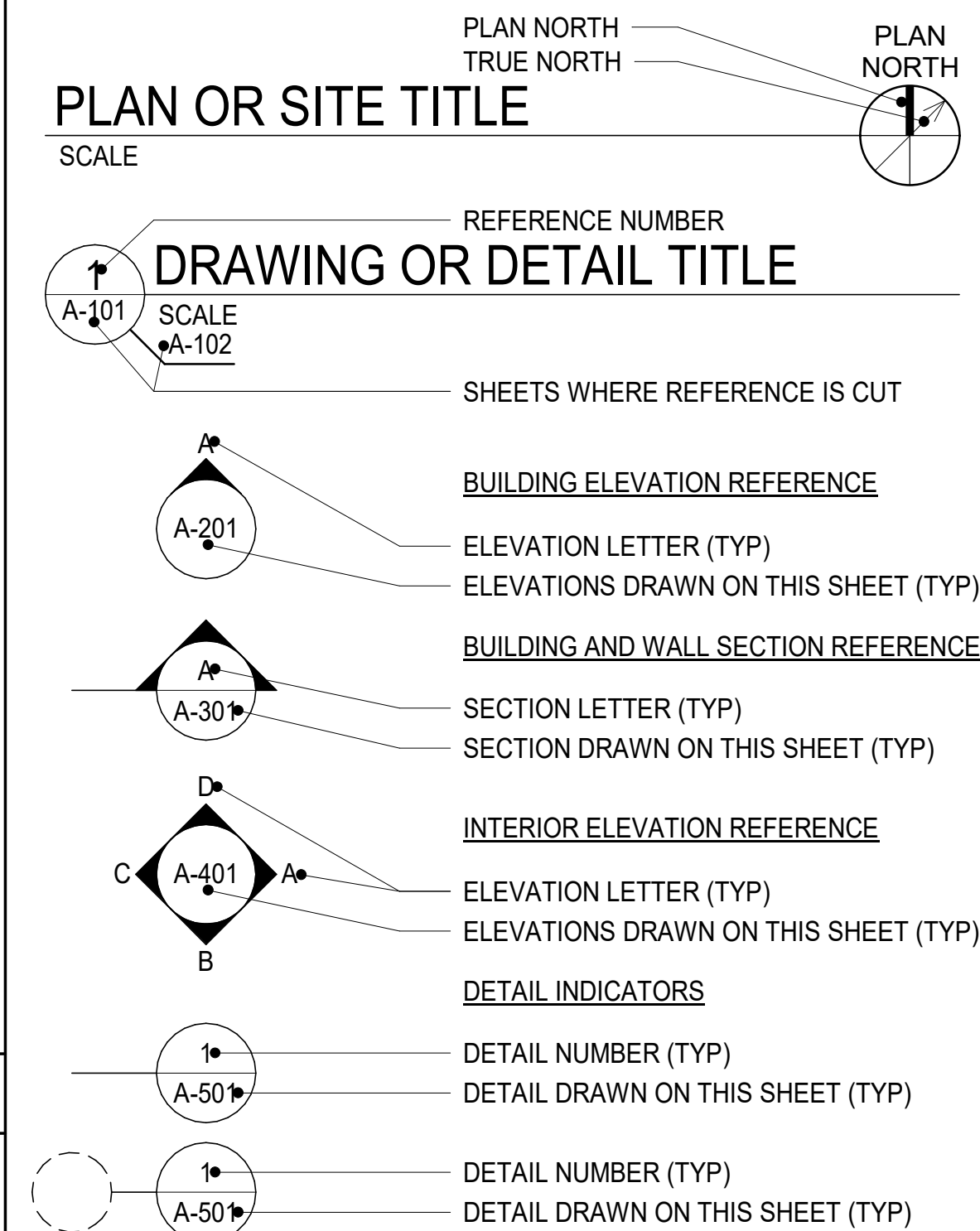
JOB CONDITIONS

- THE EXISTING FACILITIES SHALL REMAIN OPEN FOR BUSINESS THROUGHOUT THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO CAUSE THE LEAST POSSIBLE INTERFERENCE WITH THE NORMAL OPERATIONS OF THE FACILITIES. EXACT SEQUENCE AND TIMING OF THE VARIOUS PORTIONS OF THE WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY, AND HE/SHE SHALL TAKE ADEQUATE MEASURES TO MAINTAIN APPROPRIATE AND SAFE MEANS OF ACCESS AND EGRESS AND TO MAINTAIN THE SECURITY OF THE FACILITY AT ALL TIMES.
- THE CONTRACTOR SHALL ERECT TEMPORARY BARRICADES, PARTITIONS, AND DOORS OR OTHER MEANS OF PROTECTION AS REQUIRED TO PROTECT THE CONSTRUCTION AREA, PREVENT ACCESS BY UNAUTHORIZED PERSONS AND TO MAINTAIN SECURITY. ALL BARRICADES, PARTITIONS AND DOORS WILL ALSO BE SUFFICIENT TO PREVENT THE PASSAGE OF DUST AND DIRT FROM CONSTRUCTION AREAS TO AREAS OF ONGOING BUSINESS. TEMPORARY BARRICADES OR PARTITIONS SHALL BE CONSTRUCTED SO AS NOT TO RESTRICT THE MEANS OF EGRESS AS REQUIRED BY CODE.
- THE CONTRACTOR SHALL NOT INTERRUPT ANY UTILITY SERVICE TO ANY PORTION OF THE BUILDING NOT WITHIN THE AREA UNDER CONSTRUCTION AT ANY TIME. ANY OPERATION OF CONSTRUCTION WHICH MIGHT INTERRUPT ANY UTILITY SERVICE TO THE BUILDING SHALL BE PERFORMED AT A TIME AGREED TO BY THE OWNER, AND WITH THE APPROPRIATE TRADES ON SITE TO RESTORE ANY INADVERTENT INTERRUPTION.
- THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF THE HEALTH DEPARTMENT INCLUDING, BUT NOT LIMITED TO, THE REGULATION OF HOURS OF WORK, PARKING AREAS, AND NOISY OPERATIONS.

ABBREVIATIONS

ADA	AMERICANS W/ DISABILITIES	GYP	GYPSUM
AFF	ABOVE FINISHED FLOOR	GWB	GYPSUM WALL BOARD
ACOUS	ACOUSTICAL	INSUL	INSULATION
ACT	ACOUSTICAL CEILING TILE	H	HEIGHT
ALUM	ALUMINUM	HOR	HORIZONTAL
APPROX	APPROXIMATELY	MANUF	MANUFACTURER
BD	BOARD	MECH	MECHANICAL
BEJ	BUILDING EXPANSION JOINT	MIN	MINIMUM
BTM	BOTTOM	MO	MASONRY OPENING
CLR	CLEAR	MTL	METAL
CO	CLEAN OUT	NIC	NOT IN CONTRACT
CONC	CONCRETE	NTS	NOT TO SCALE
COORD	COORDINATE	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	OH	OPPOSITE HAND
CONT	CONTINUOUS	PLAM	PLASTIC LAMINATE
CJ	CONTROL JOINT	PNT	PAIN
D OR DIA	DIAMETER	PREFAB	PREFABRICATED
DN	DOWN	REINF	REINFORCED
DS	DOWNSPOUT	RD	ROOF DRAIN
EA	EACH	RO	ROUGH OPENING
EWC	ELECTRIC WATER COOLER	SIM	SIMILAR
EJ	EXPANSION JOINT	SQ	SQUARE
EFS	EXTERIOR FINISH SYSTEM	SS	STAINLESS STEEL
EIFS	EXTERIOR INSULATION FINISH SYSTEM	STRUCT	STRUCTURAL
EQUIP	EQUIPMENT	TERM	TERMINATE
EXT	EXTERIOR	TOS	TOP OF STEEL
FD	FLOOR DRAIN	TOM	TOP OF MASONRY
FRP	FIBERGLASS REINFORCED POLYESTER	TYP	TYPICAL
FRT	FIRE RETARDANT TREATED	UON	UNLESS OTHERWISE NOTED
FEC	FIRE EXTINGUISHER CABINET	VERT	VERTICAL
GA	GAUGE	VCT	VINYL COMPOSITION TILE
GC	GENERAL CONTRACTOR	W	WIDTH
		WH	WATER HEATER

SYMBOL LEGEND



ROOM	ROOM NAME
(14'-0")	REFERENCE HEIGHT AFF
1	NEW WORK NOTES
1	DEMOLITION WORK NOTES
1	REVISION MARKER

MATERIAL LEGEND

	BATT INSULATION		FINISHED WOOD
	BRICK		GRAVEL
	CONCRETE		GYPSUM BOARD OR SHEATHING
	CONCRETE MASONRY UNITS		PLYWOOD
	CONTINUOUS BLOCKING		RIGID INSULATION
	EARTH		STEEL



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LEGENDS AND ABBREVIATIONS

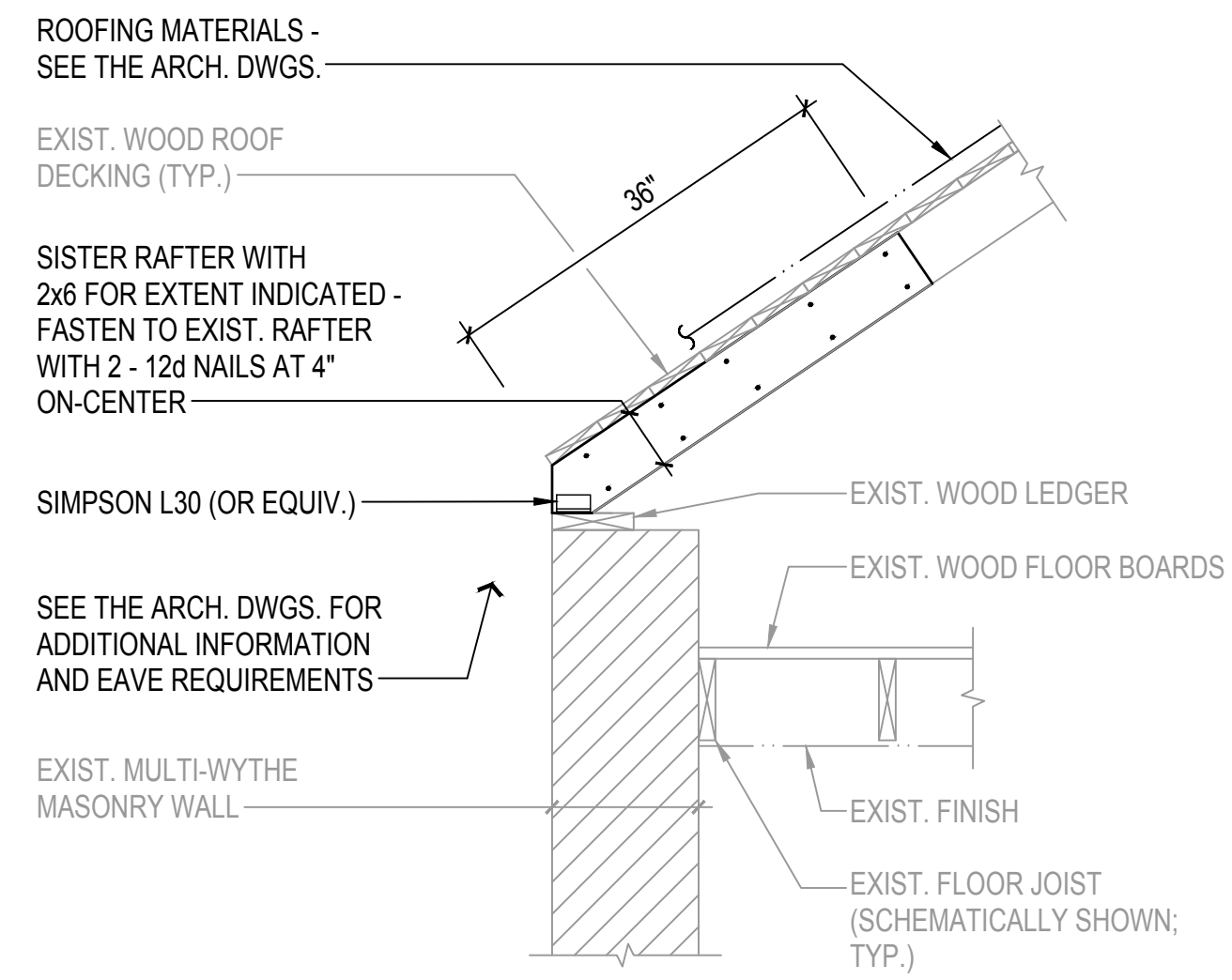


ISSUED FOR:	MARK:	DATE:
BIDDING AND CONSTRUCTION		4-19-19

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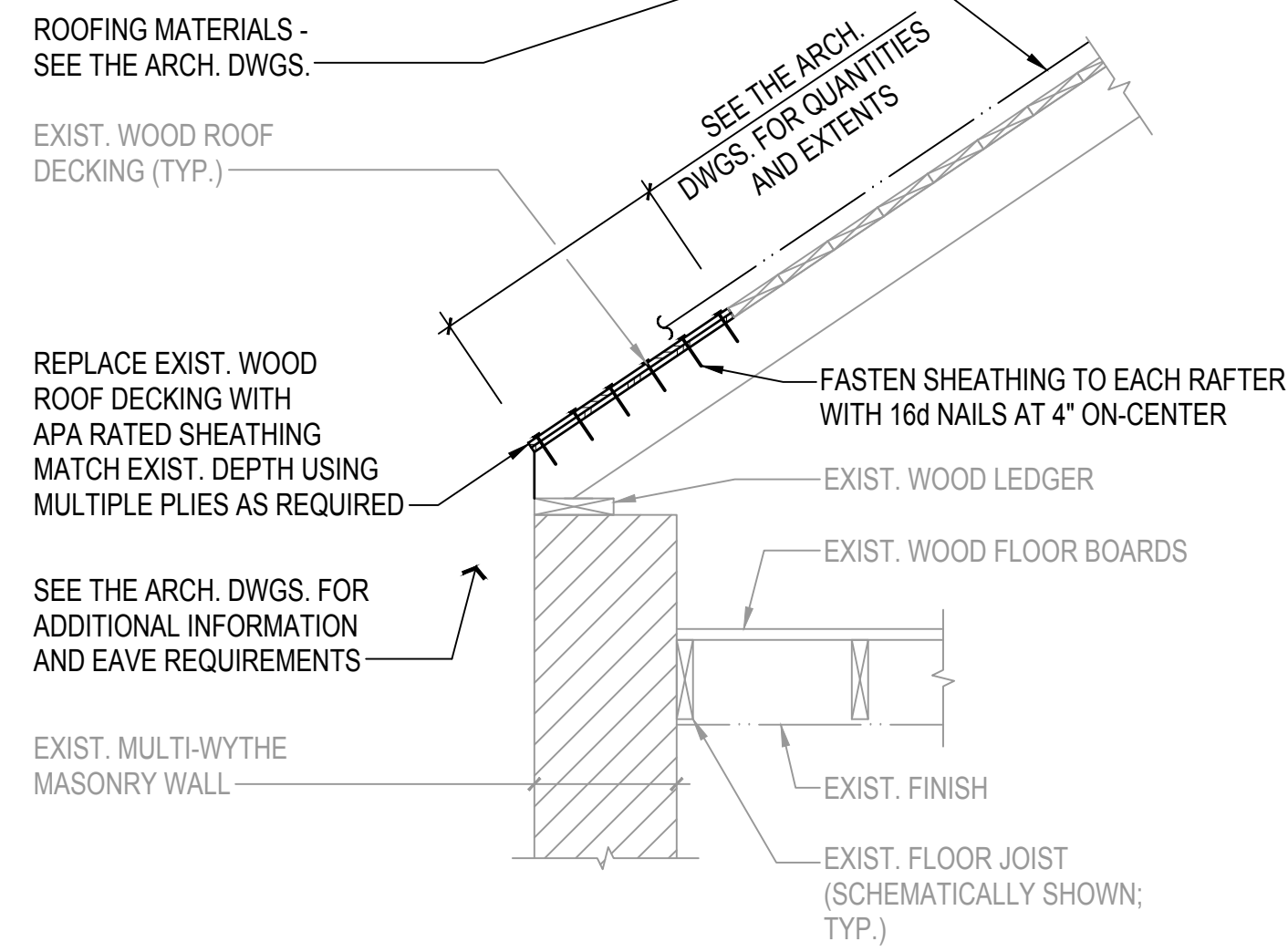
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G-002



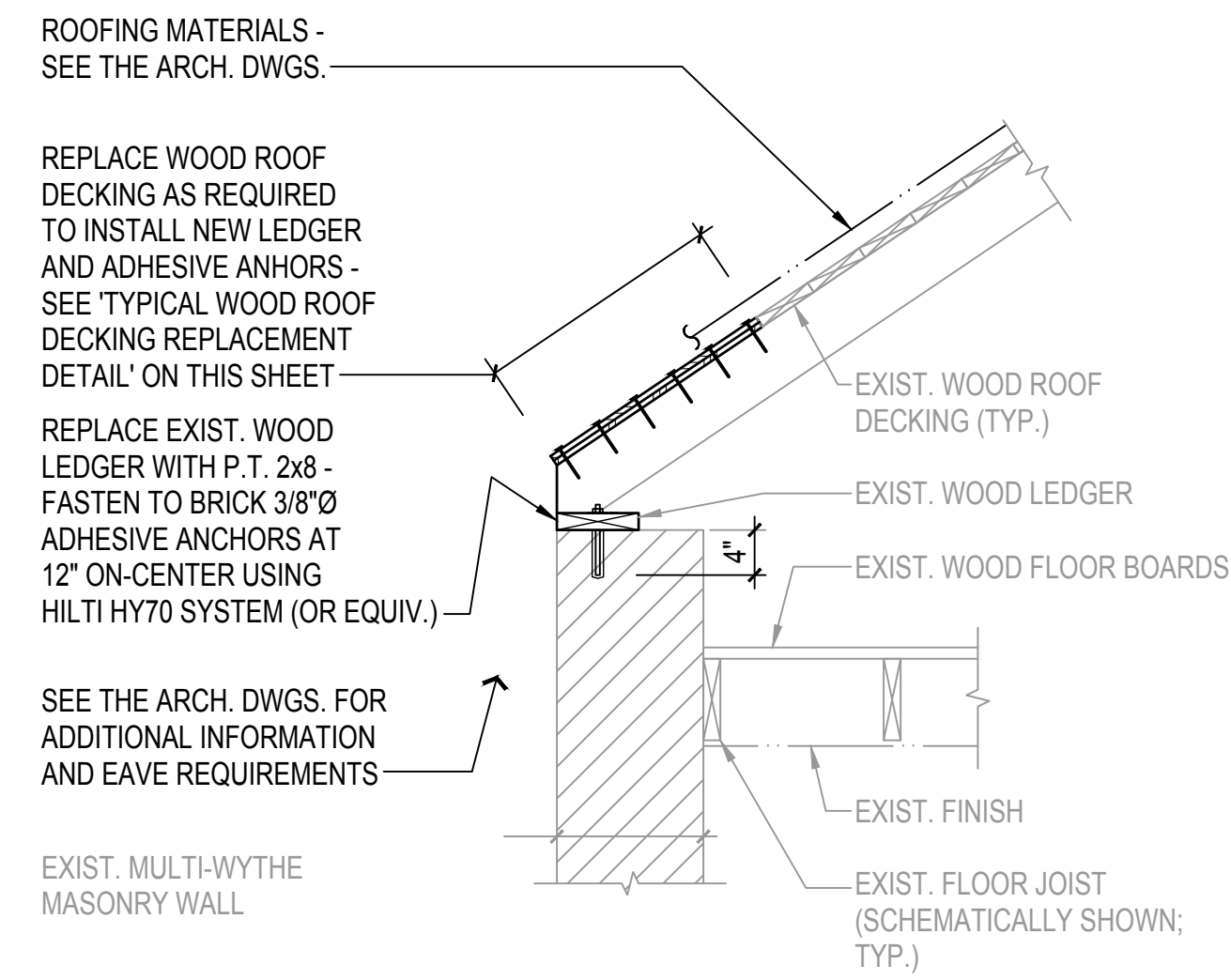
TYPICAL SISTERED RAFTER DETAIL

NOT TO SCALE



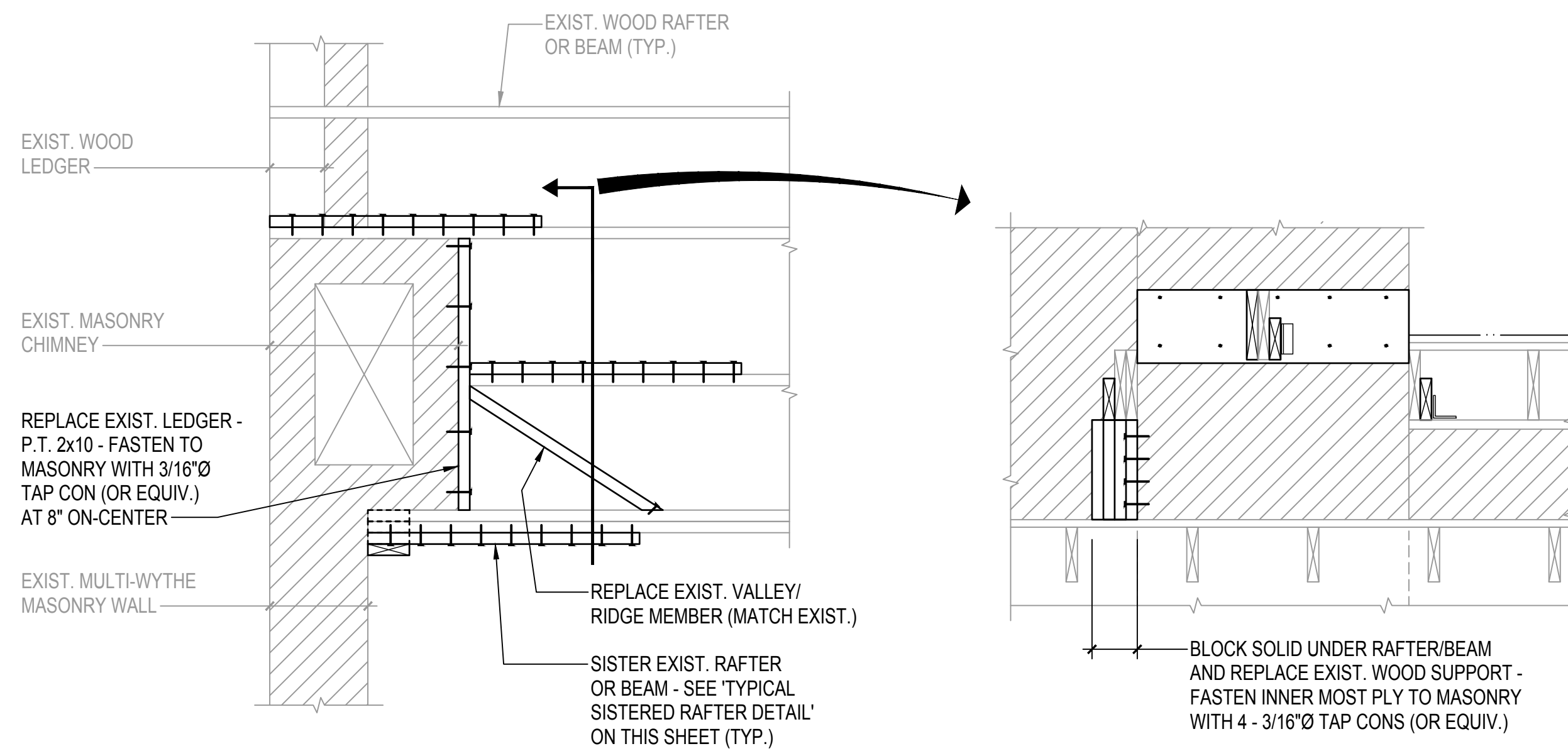
TYPICAL WOOD ROOF DECKING REPLACEMENT DETAIL

NOT TO SCALE



TYPICAL DAMAGED LEDGER REPLACEMENT DETAIL

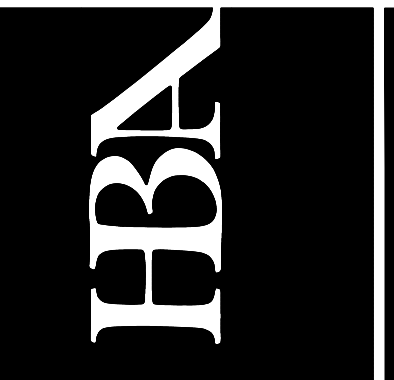
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PLAN

TYPICAL REPAIR DETAIL AT CHIMNEY RIDGE/VALLEY DETAIL

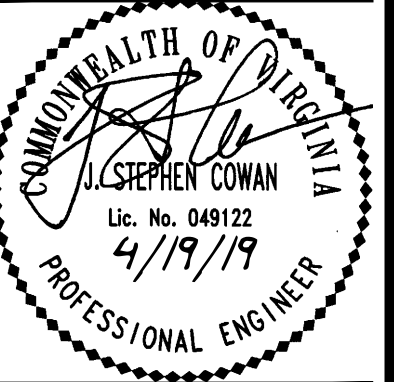
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ACCOMACK, VA

STRUCTURAL DETAILS



ISSUED FOR: BIDDING AND CONSTRUCTION
MARK:
DATE: 04/19/19

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S-101

DEMOLITION FLOOR PLAN KEYNOTES #

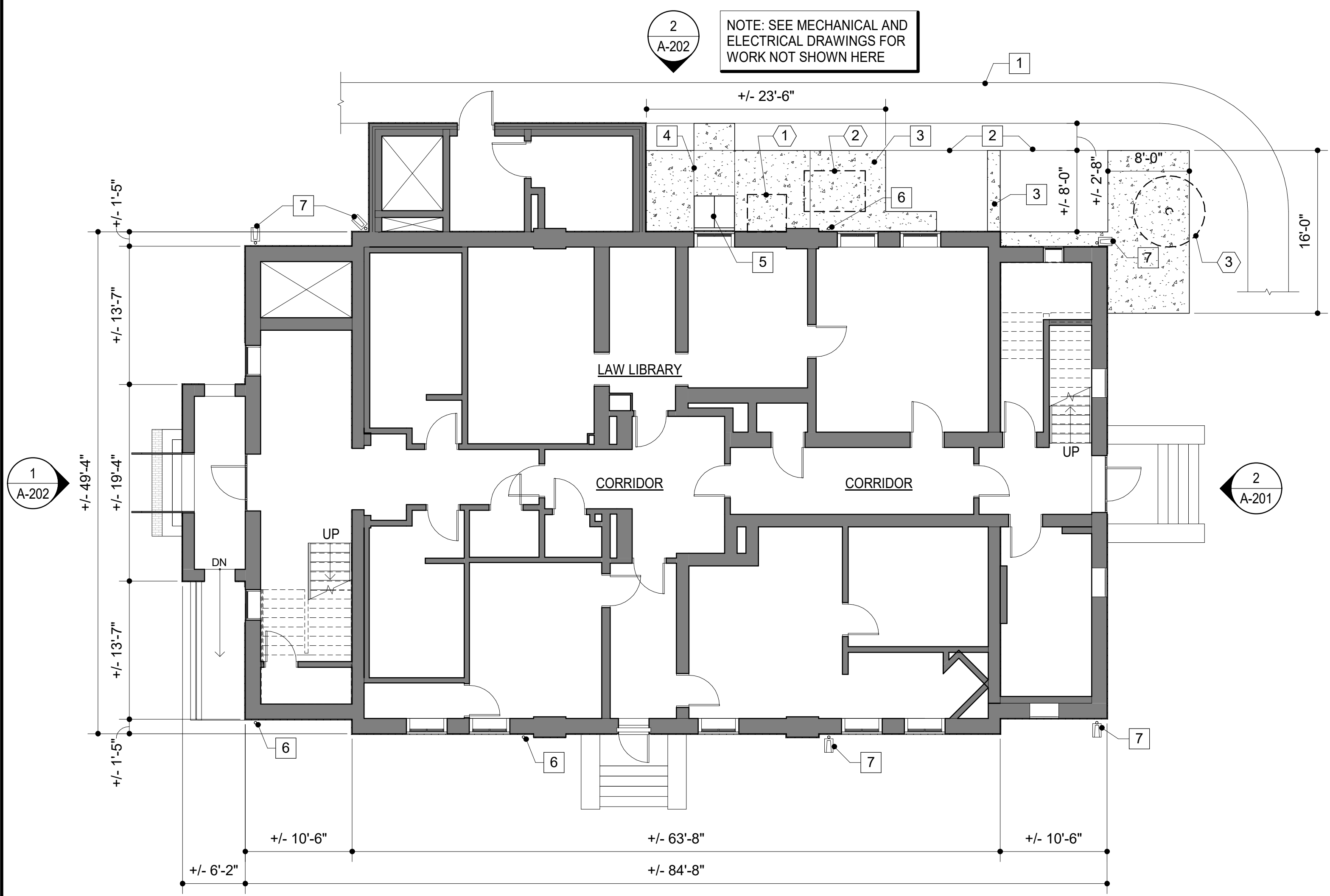
- 1 REMOVE EXISTING MASONRY CHIMNEY AND STEEL FLUE PIPE THROUGH WALL COMPLETE. SEE MECHANICAL FOR REMOVAL OF REMAINING FLUE PIPE AND BOILER IN BASEMENT.
- 2 REMOVE EXISTING CONCRETE EQUIPMENT PAD COMPLETE
- 3 REMOVE EXISTING SHRUB

NEW WORK FLOOR PLAN KEYNOTES #

- 1 EXISTING CONCRETE WALK TO REMAIN
- 2 EXISTING CONCRETE EQUIPMENT PAD TO REMAIN
- 3 4" THICK FIBER REINFORCED CONCRETE OVER 4" GRAVEL OVER COMPACTED SUBGRADE. SLOPE TO DRAIN AWAY FROM BUILDING.
- 4 CONTROL JOINT, TYP.
- 5 REMOVE AND REPLACE EXISTING BASEMENT HATCH, SEE SPECIFICATIONS FOR MORE INFORMATION
- 6 DOWNSPOUT
- 7 DOWNSPOUT WITH PRECAST CONCRETE SPLASH BLOCK

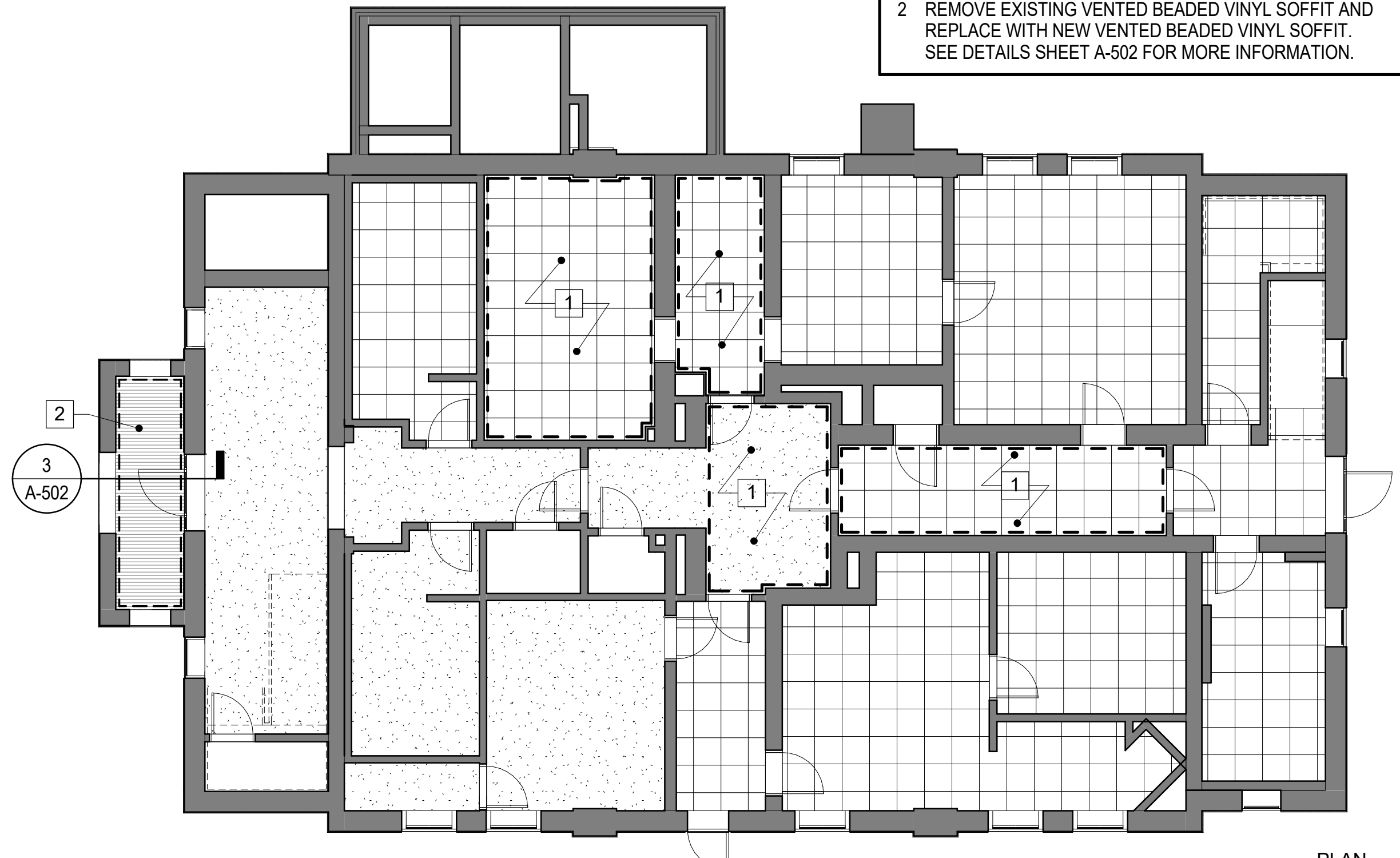
CEILING PLAN KEYNOTES #

- 1 REMOVE AND REPLACE CEILING TO MATCH EXISTING HEIGHT, TYPE AND APPEARANCE. REMOVE ALL EXISTING MECHANICAL AND ELECTRICAL DEVICES EXCEPT LIGHT FIXTURES AND REINSTALL IN NEW CEILING. REMOVE EXISTING LIGHT FIXTURES AND REPLACE WITH NEW. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.
- 2 REMOVE EXISTING VENTED BEADED VINYL SOFFIT AND REPLACE WITH NEW VENTED BEADED VINYL SOFFIT. SEE DETAILS SHEET A-502 FOR MORE INFORMATION.



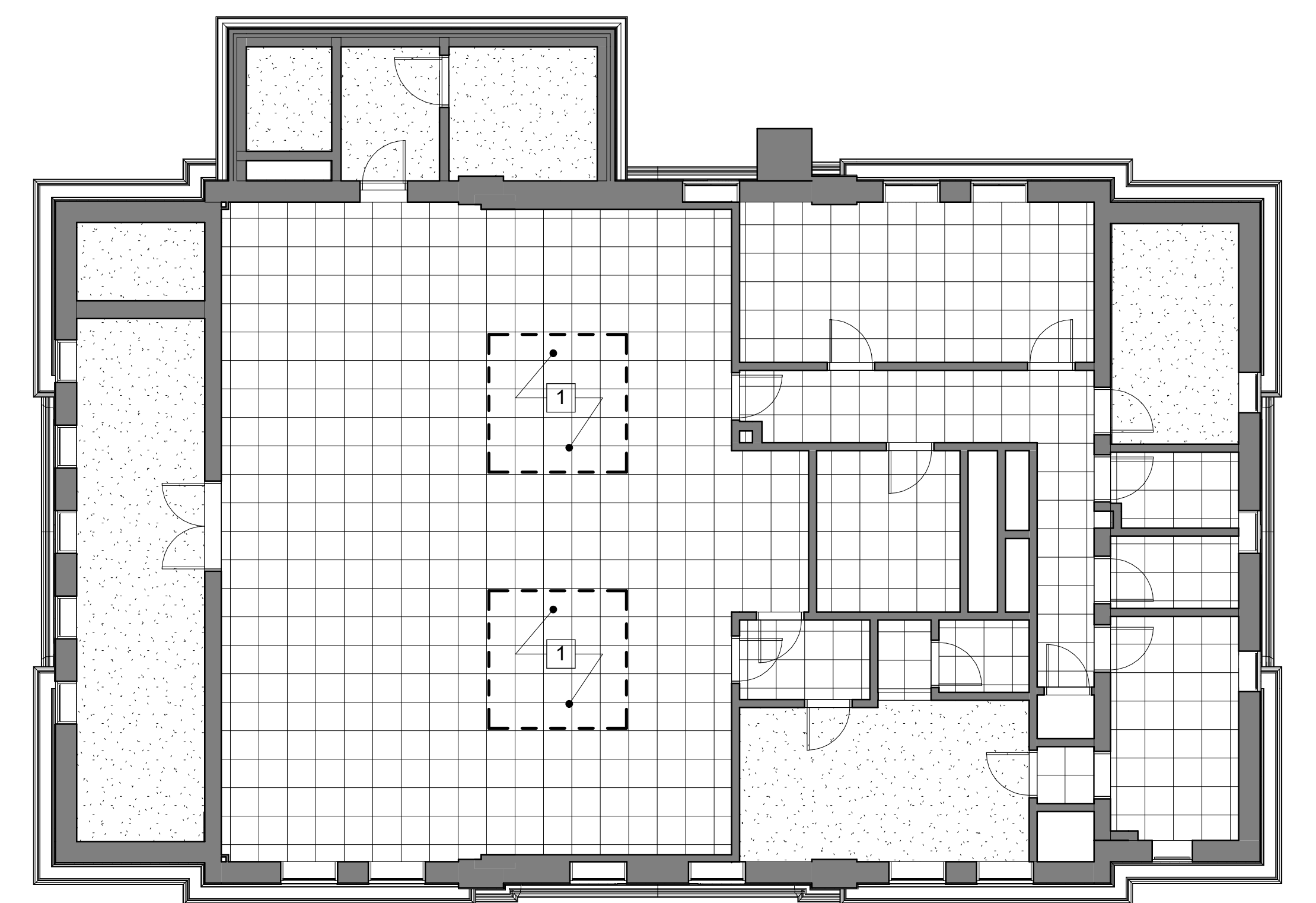
FIRST FLOOR PLAN

1/8" = 1'-0"



FIRST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"



SECOND FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"



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FLOOR AND CEILING PLANS

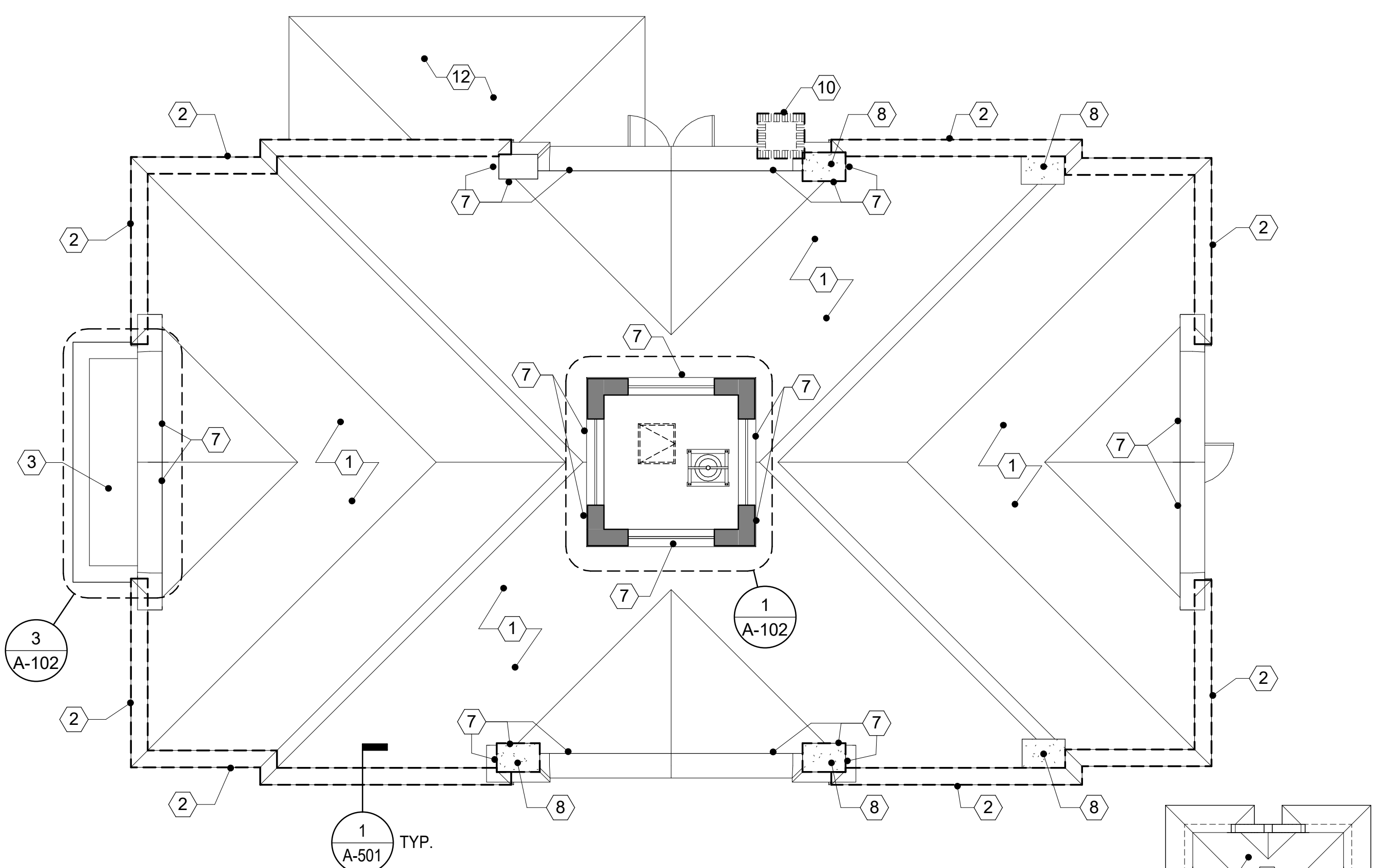


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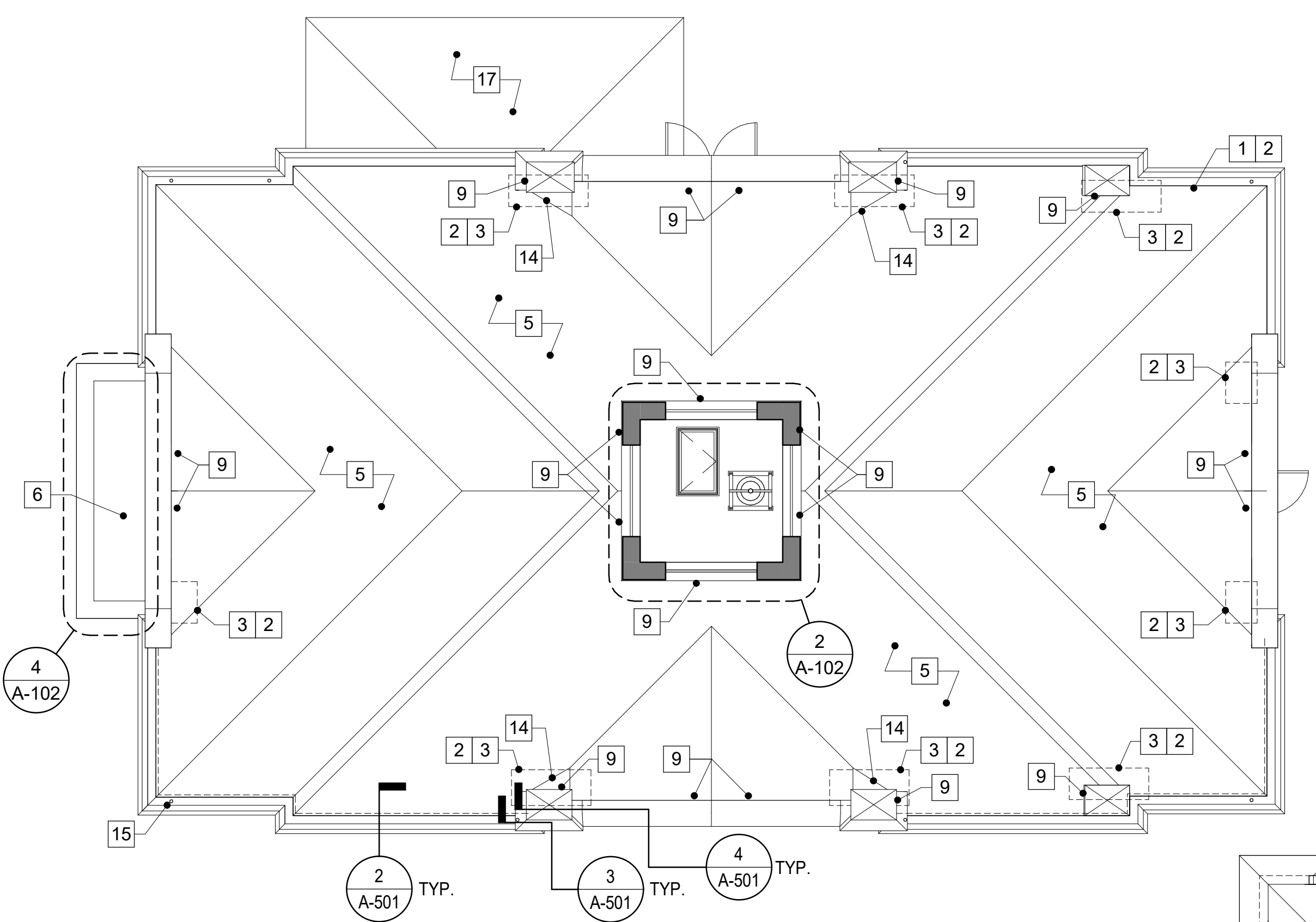
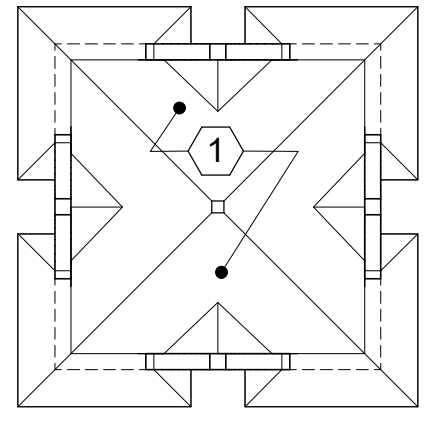
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A-101



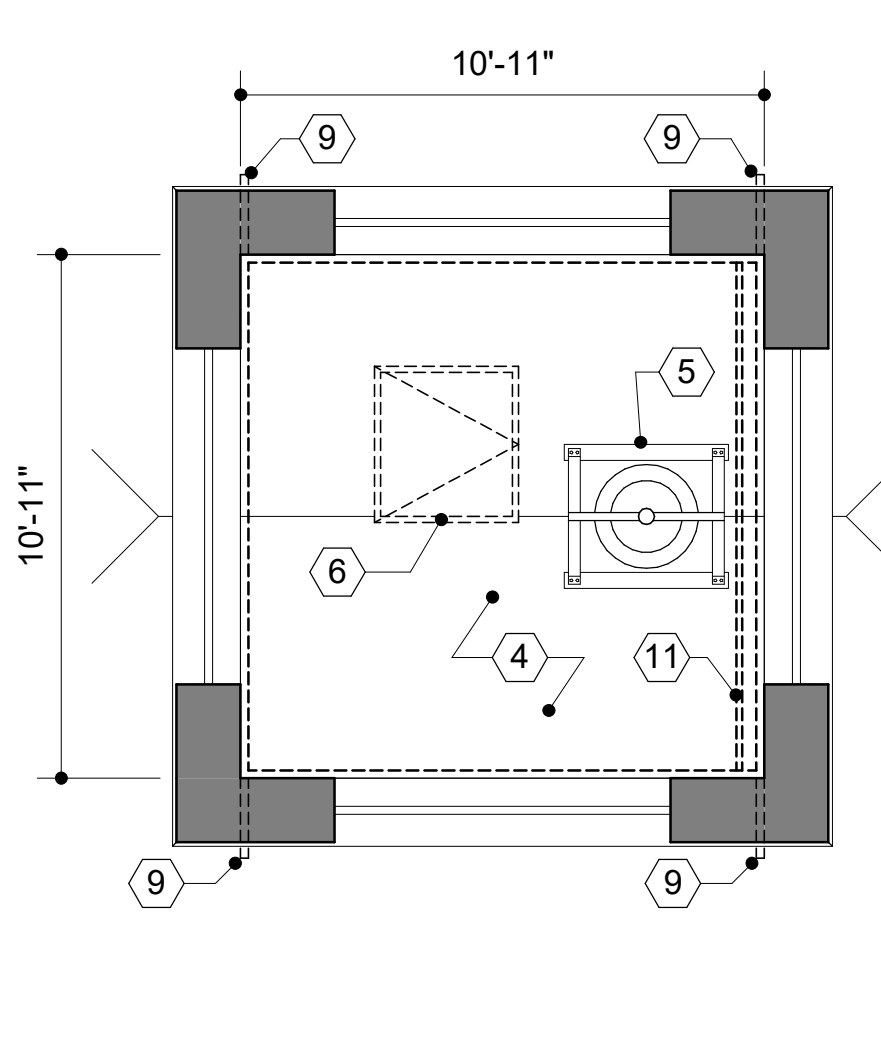
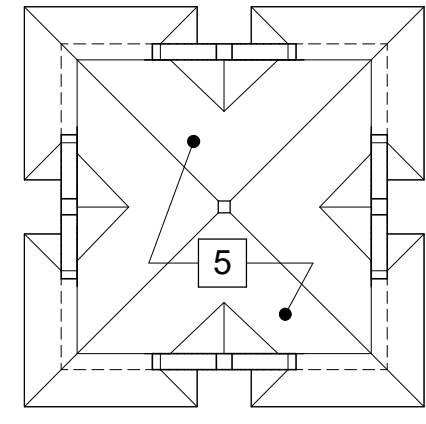
DEMOLITION ROOF PLAN
 1/8" = 1'-0"

DEMOLITION STEEPLE ROOF PLAN
 1/8" = 1'-0"

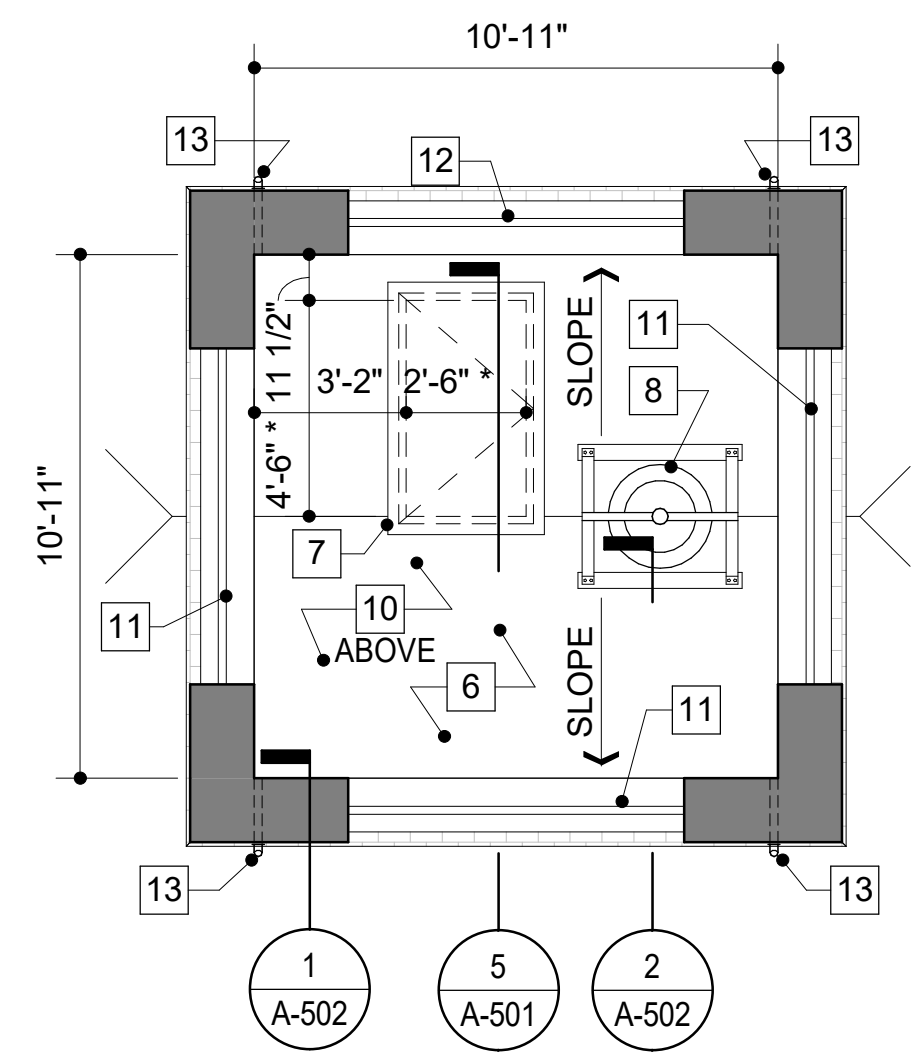


NEW WORK ROOF PLAN
 1/8" = 1'-0"

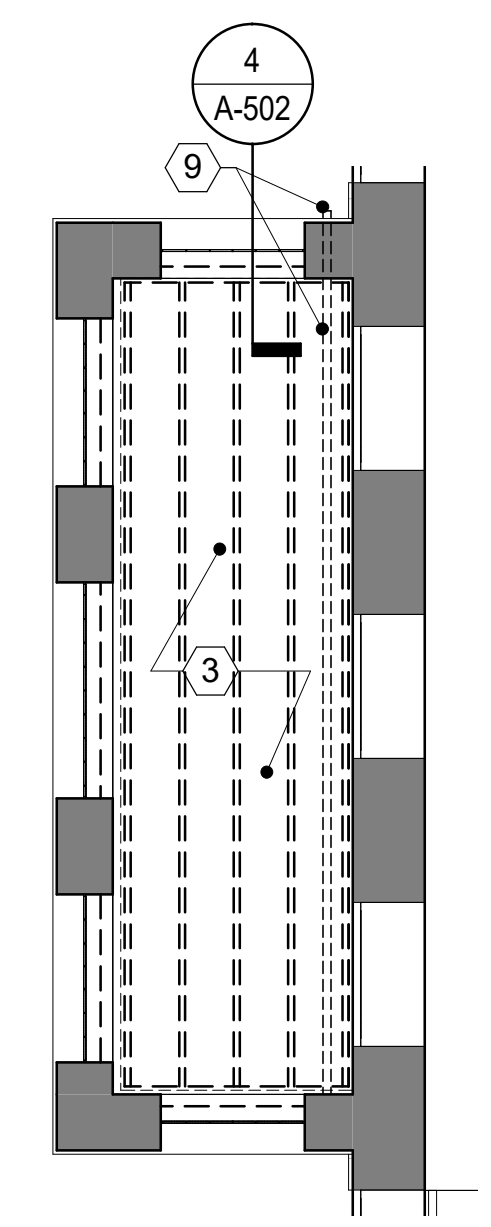
NEW WORK STEEPLE ROOF PLAN
 1/8" = 1'-0"



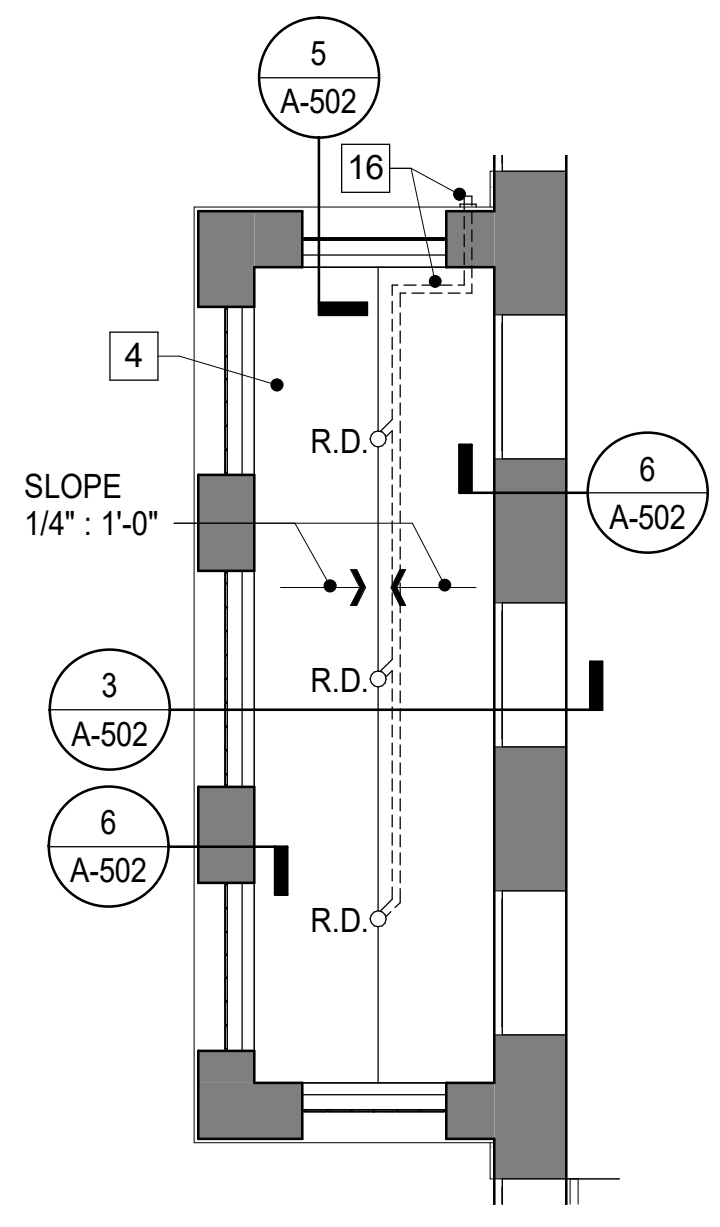
1 DEMOLITION BELL TOWER PLAN
 1/4" = 1'-0"



2 NEW WORK BELL TOWER PLAN
 1/4" = 1'-0"



3 DEMOLITION PORCH ROOF PLAN
 1/4" = 1'-0"



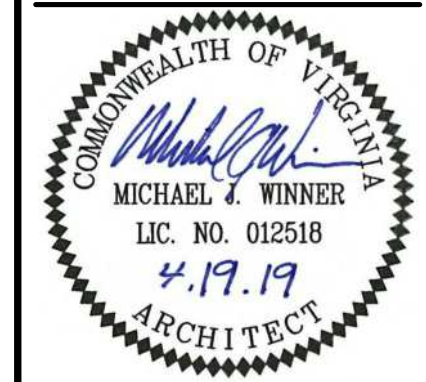
4 NEW WORK PORCH ROOF PLAN
 1/4" = 1'-0"

- DEMOLITION ROOF PLAN KEYNOTES** #
- 1 REMOVE EXISTING ASPHALT SHINGLE ROOF AND UNDERLAYMENT. REMOVE AND REPLACE ANY UNSOUND ROOF SHEATHING AND PREPARE FOR INSTALLATION OF NEW ROOF
 - 2 REMOVE EXISTING ASPHALT SHINGLE ROOF, UNDERLAYMENT, SHEATHING, AND RAFTER EXTENSIONS TO EXTENT SHOWN
 - 3 REMOVE EXISTING COPPER ROOF AND PERIMETER FLASHING COMPLETE. REMOVE ALL ROOF SHEATHING AND FRAMING AND PREPARE TO RECEIVE NEW FRAMING, SHEATHING, AND ROOF MEMBRANE
 - 4 REMOVE EXISTING MEMBRANE ROOF, SCUPPERS, AND ROOF SHEATHING, AND PREPARE FOR INSTALLATION OF NEW ROOF SHEATHING AND MEMBRANE
 - 5 REMOVE EXISTING BELL AND STORE FOR REINSTALLATION
 - 6 REMOVE EXISTING ROOF ACCESS HATCH AND LADDER
 - 7 REMOVE EXISTING FLASHING AND COUNTER FLASHING COMPLETE AND PREPARE MASONRY TO RECEIVE NEW COUNTER FLASHING AT ALL ROOF-WALL FLASHING CONDITIONS. REMOVE GABLE END WALL COPING CAP AND PROTECT FOR REINSTALLATION, AS REQUIRED TO REMOVE EXISTING FLASHING AT BACK AND ENDS OF EACH GABLE END WALL.
 - 8 REMOVE EXISTING PRECAST CONCRETE CHIMNEY CAP AND PREPARE CHIMNEY TO RECEIVE NEW PRECAST CONCRETE CAP
 - 9 REMOVE EXISTING SCUPPER AND ROOF DRAIN PIPING
 - 10 REMOVE EXISTING MASONRY CHIMNEY COMPLETE.
 - 11 REMOVE AND REPLACE DETERIORATED ROOF JOIST.
 - 12 NO WORK THIS AREA

- NEW WORK ROOF PLAN KEYNOTES** #
- 1 REPAIR TOP OF MASONRY WALL AFTER EXISTING HVAC LINESETS ARE REMOVED
 - 2 REMOVE TOP PLATE WHERE DETERIORATED OR PREVIOUSLY REPAIRED WITH MISMATCHED MATERIALS AND REPLACE WITH TREATED LUMBER OF MATCHING DIMENSIONS
 - 3 REPAIR DETERIORATED ROOF FRAMING, SEE SHEET S-101
 - 4 PROVIDE NEW SINGLE PLY MEMBRANE ROOF SYSTEM, ROOF SHEATHING, AND ROOF FRAMING.
 - 5 PROVIDE NEW ASPHALT SHINGLE ROOF OVER CONTINUOUS ICE AND WATER SHIELD
 - 6 PROVIDE NEW SINGLE PLY MEMBRANE ROOF SYSTEM AND ROOF SHEATHING
 - 7 PROVIDE NEW ROOF ACCESS HATCH WITH CURB AND LADDER. PROVIDE INFILL FRAMING AS REQUIRED FOR NEW HATCH OPENING
 - 8 REINSTALL EXISTING BELL ON NEW CURB AND FEED BELL ROPE DOWN TO ATTIC
 - 9 PROVIDE NEW ROOF-WALL FLASHING AND COUNTERFLASHING. PROVIDE STEP FLASHING AT ALL SIDEWALL CONDITIONS INCLUDING CHIMNEYS.
 - 10 REPAINT BELL TOWER CEILING
 - 11 REPAINT EXISTING PIPE RAILINGS
 - 12 REPLACE LOWER PIPE RAIL TO MATCH EXISTING AND PROVIDE UPPER PIPE RAIL TO MATCH EXISTING (CURRENTLY MISSING)
 - 13 PROVIDE NEW PVC THROUGH-WALL SCUPPER WITH LAMBS TONGUE
 - 14 PROVIDE CRICKET BEHIND CHIMNEY
 - 15 DOWNSPOUT LOCATION, TYP.
 - 16 2" PVC RAIN LEADER WITH LAMB'S TONGUE
 - 17 NO WORK THIS AREA

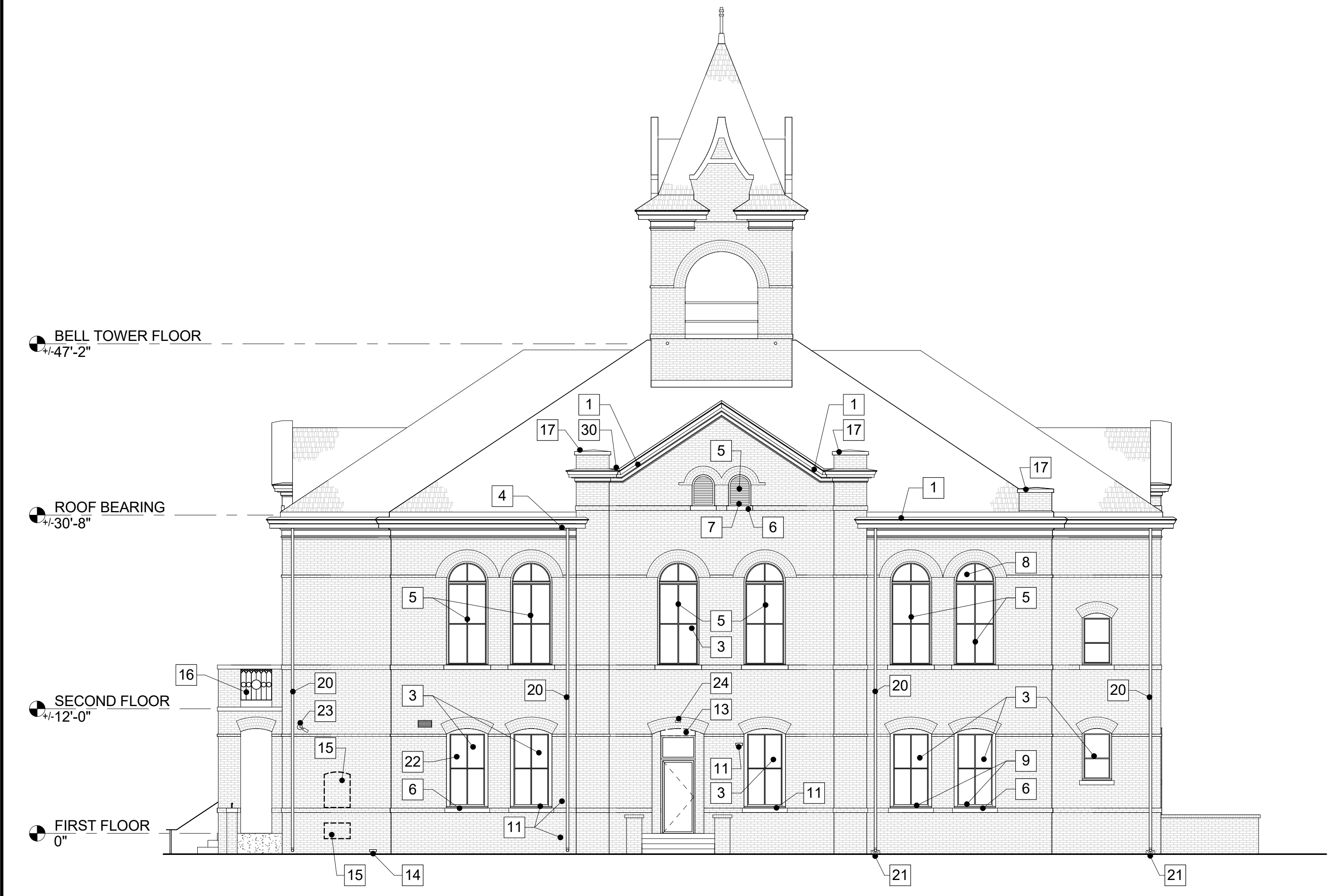
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 ACCOMACK, VA

ELEVATIONS

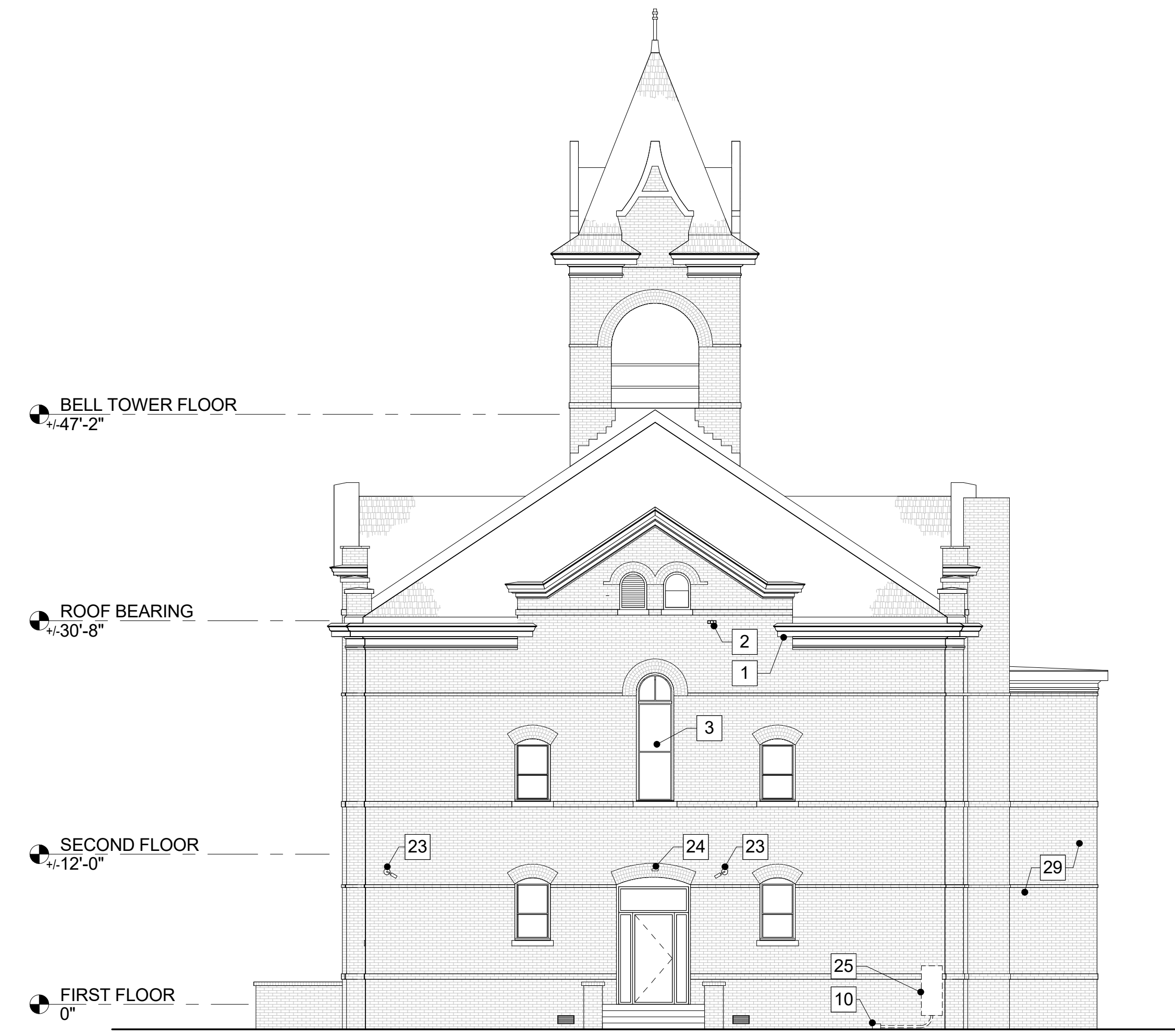


ISSUED FOR:	MARK:	DATE:
BIDDING AND CONSTRUCTION		4-19-19

17070.01
A-201



1 EAST
 A-101 1/8" = 1'-0"



2 NORTH
 A-101 1/8" = 1'-0"

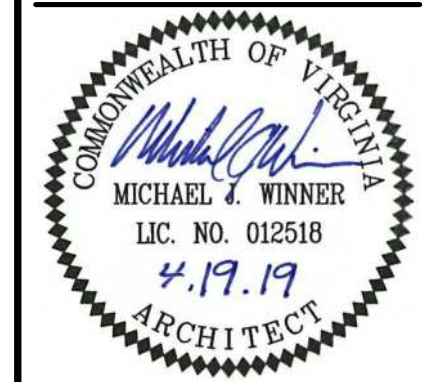
GENERAL ELEVATION NOTES	NEW WORK ELEVATION KEYNOTES #	
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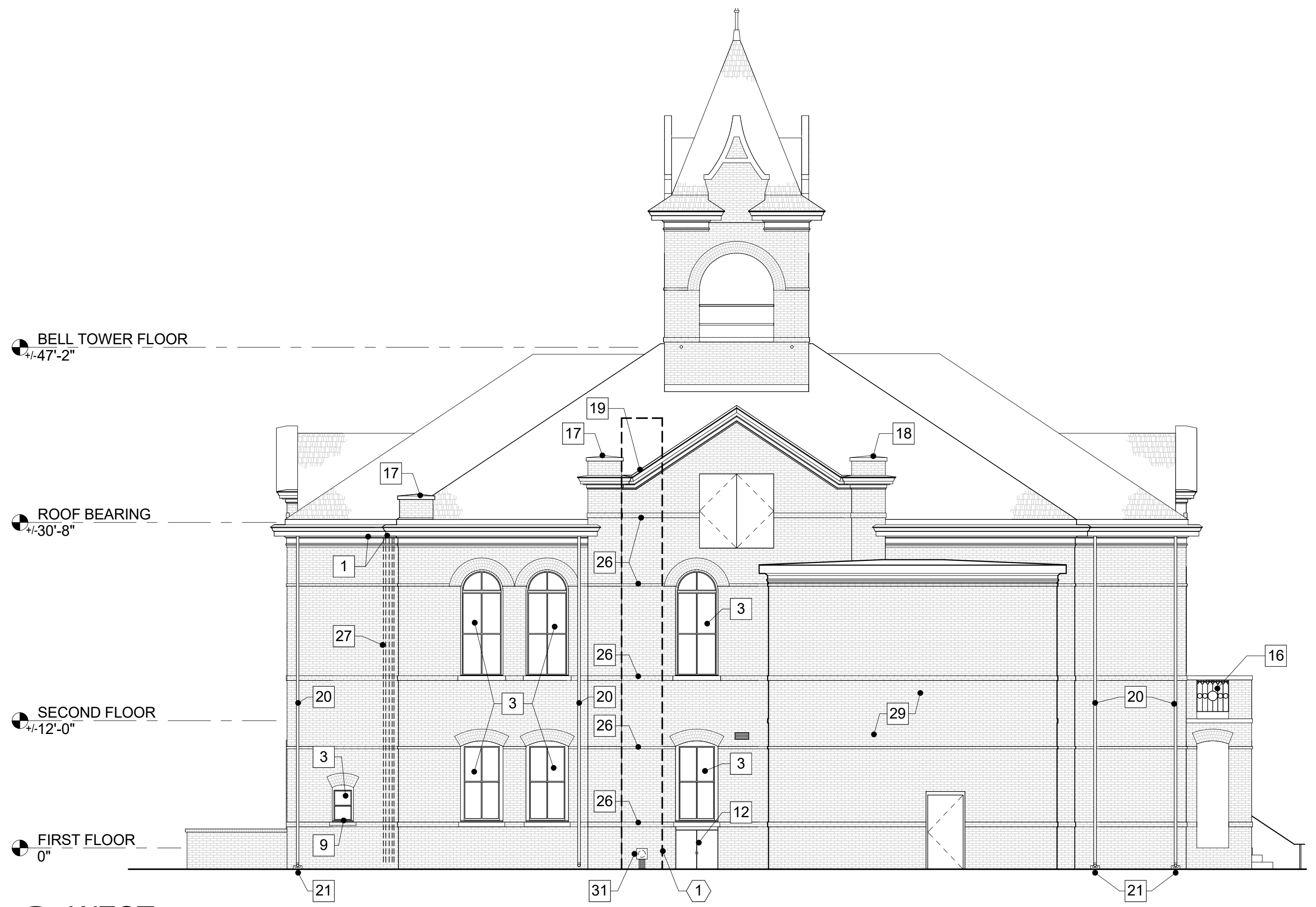
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ELEVATIONS

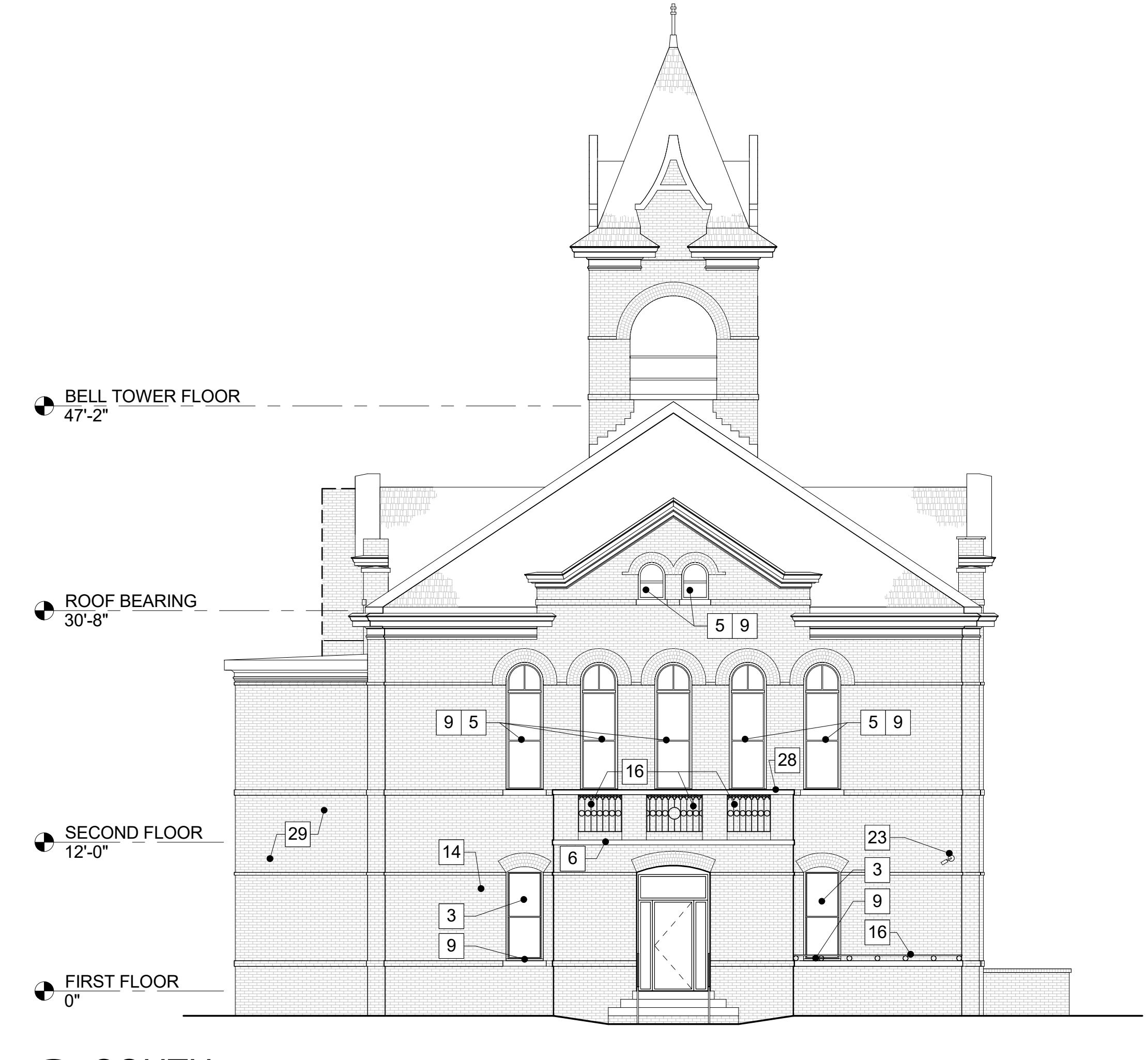


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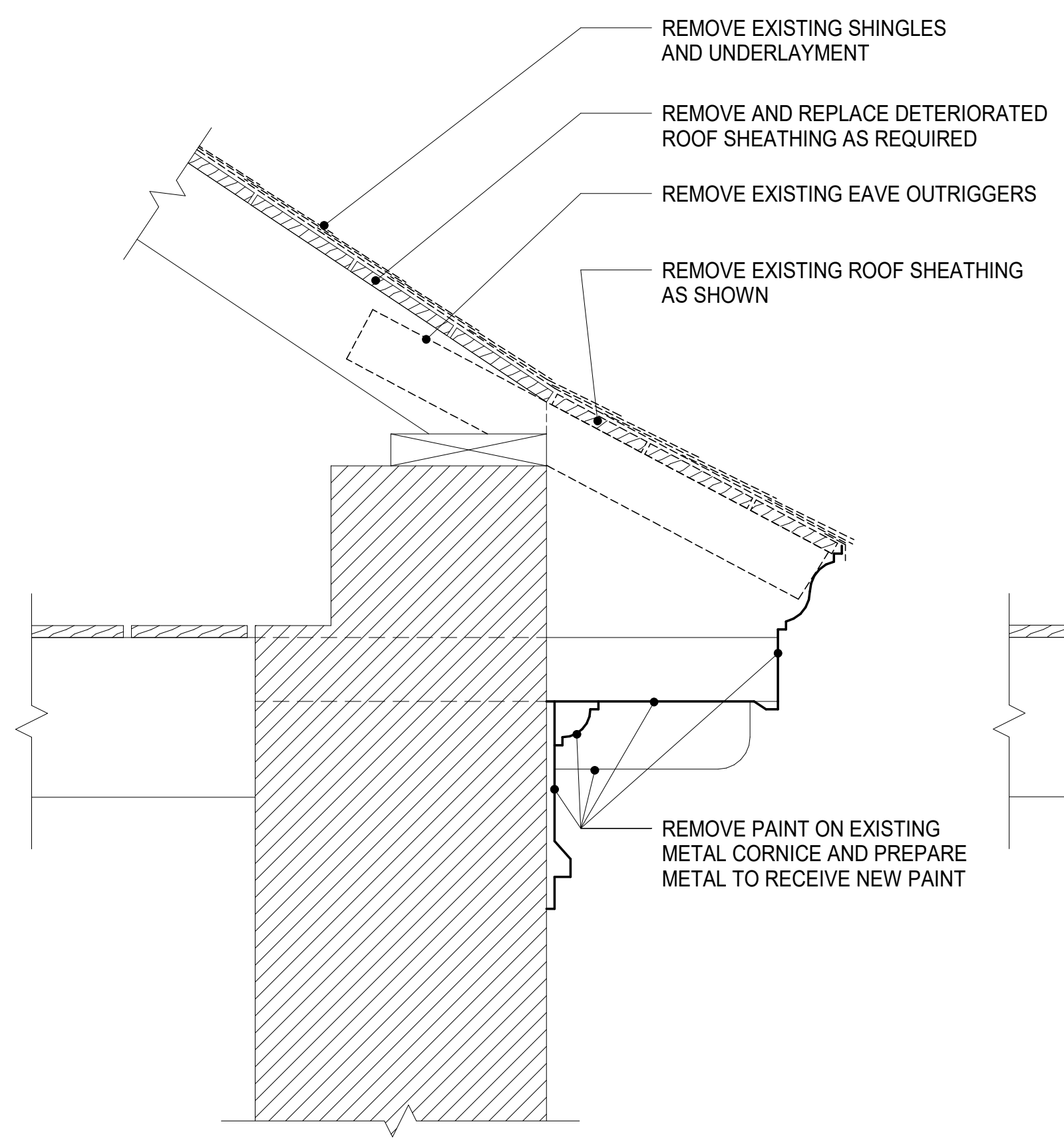


2 WEST
 A-101 1/8" = 1'-0"

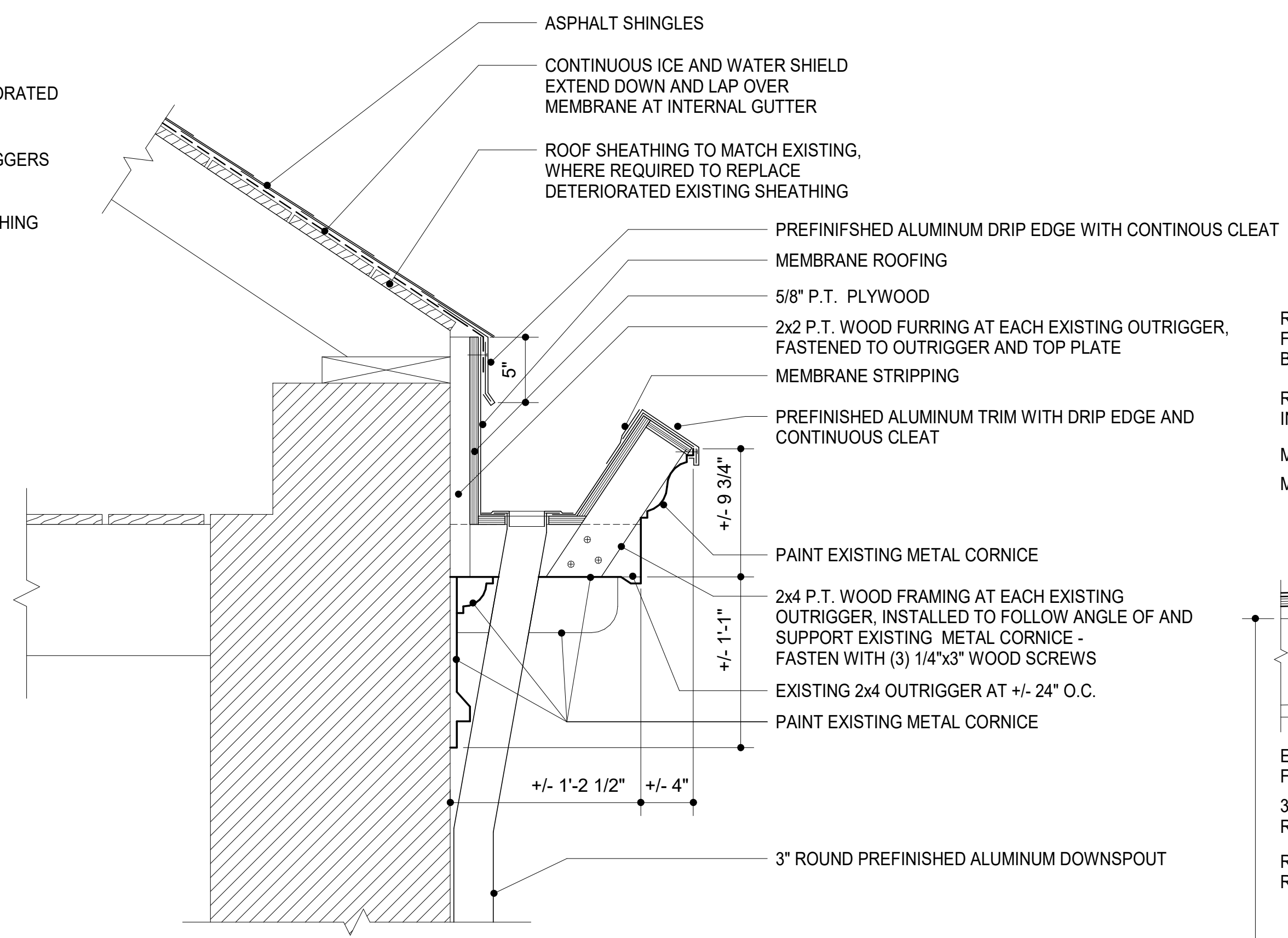


1 SOUTH
 A-101 1/8" = 1'-0"

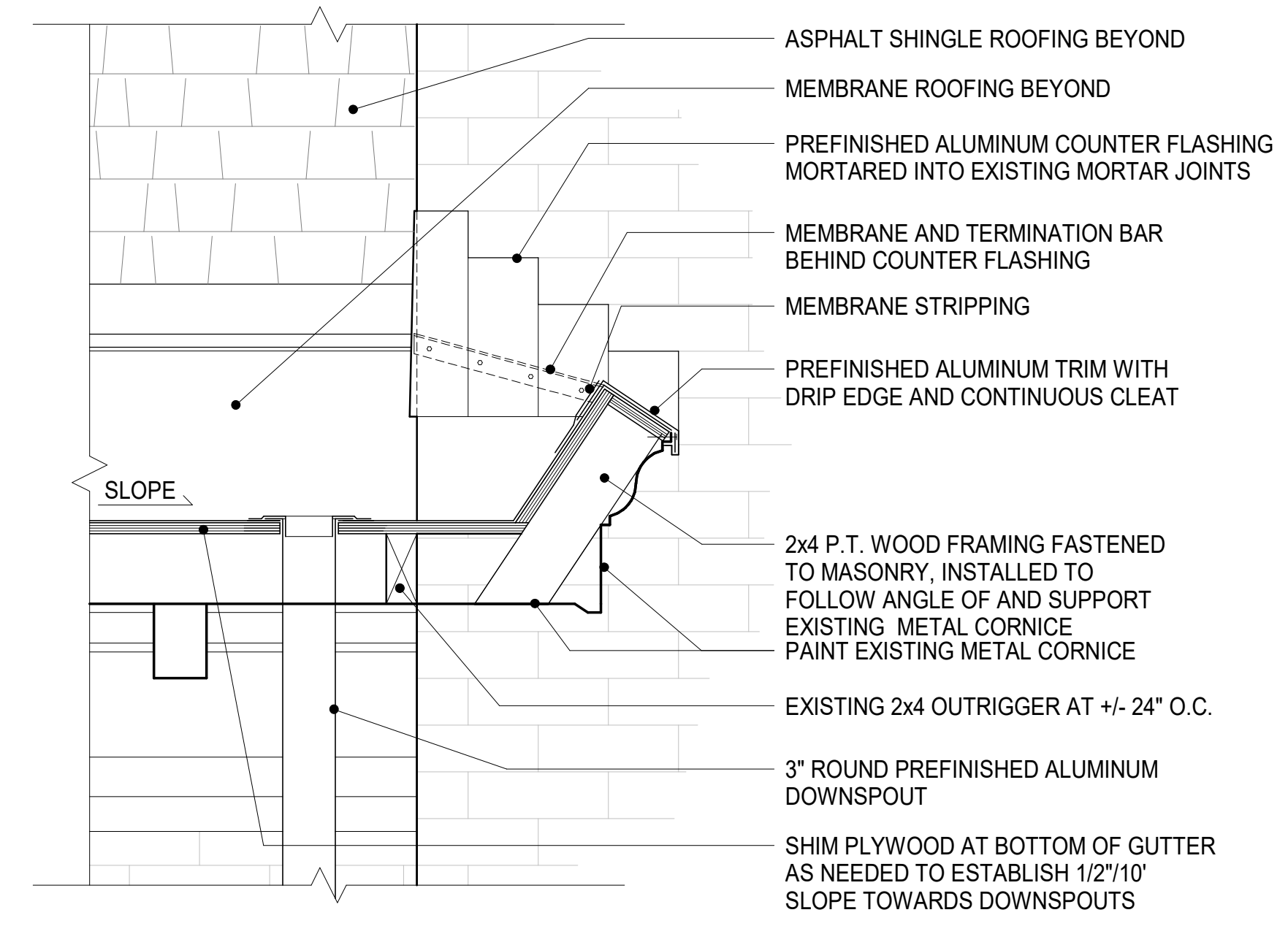
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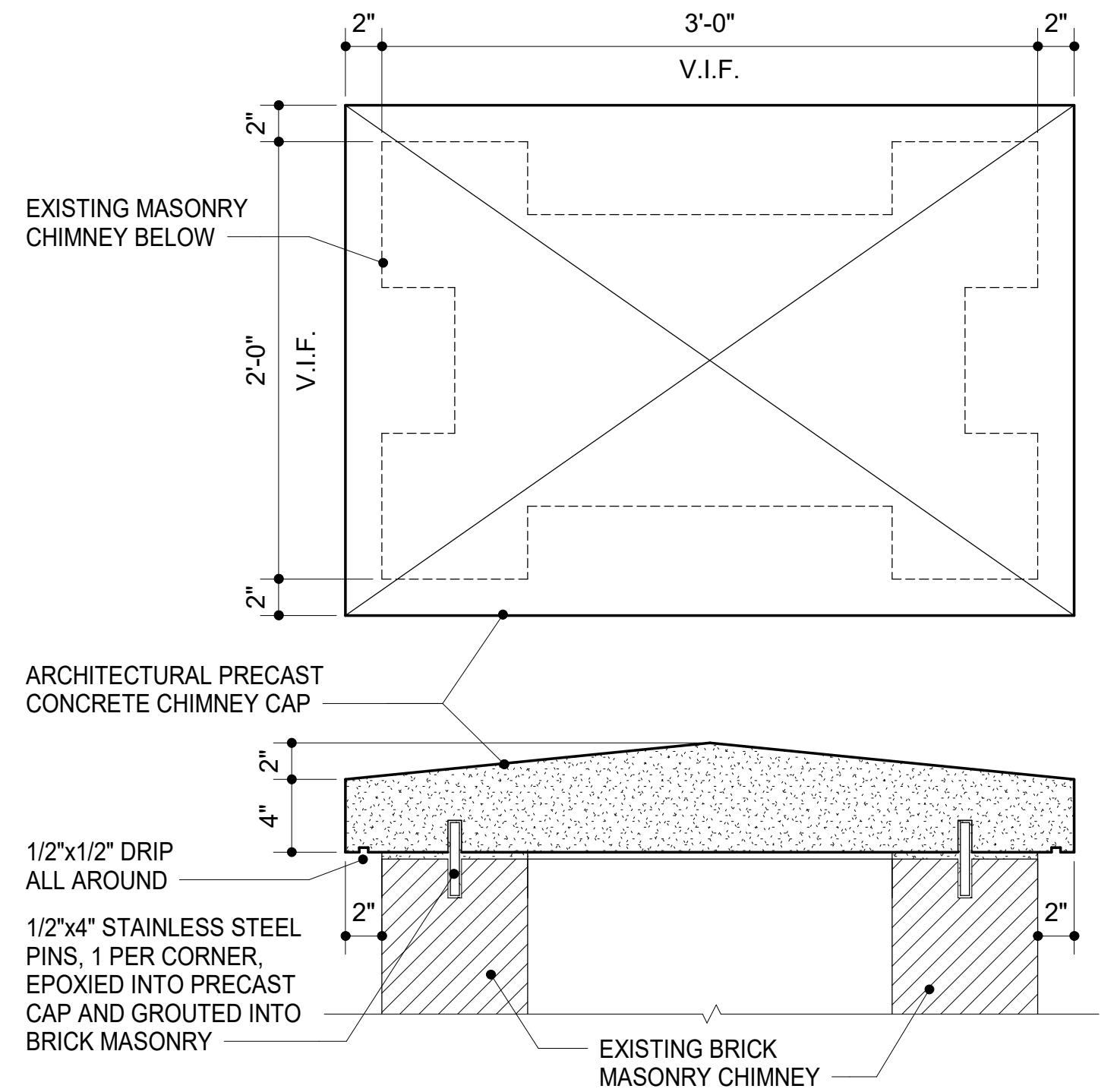
1 DEMOLITION DETAIL
A-102 1 1/2" = 1'-0"



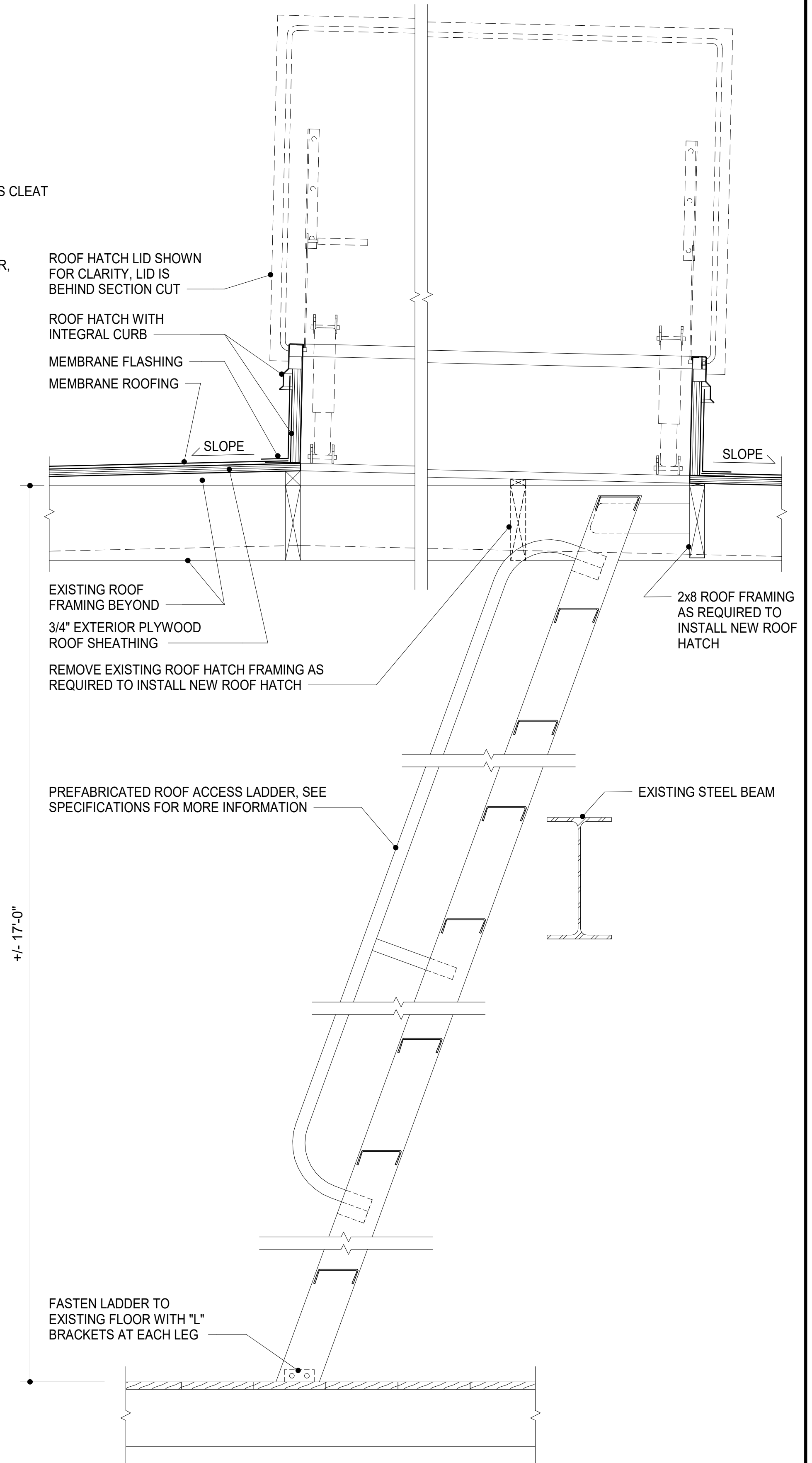
2 NEW WORK DETAIL
A-102 1 1/2" = 1'-0"



3 NEW WORK DETAIL
A-102 1 1/2" = 1'-0"



4 CHIMNEY CAP DETAIL
A-102 1 1/2" = 1'-0"



5 BELL TOWER HATCH DETAIL
A-102 1 1/2" = 1'-0"

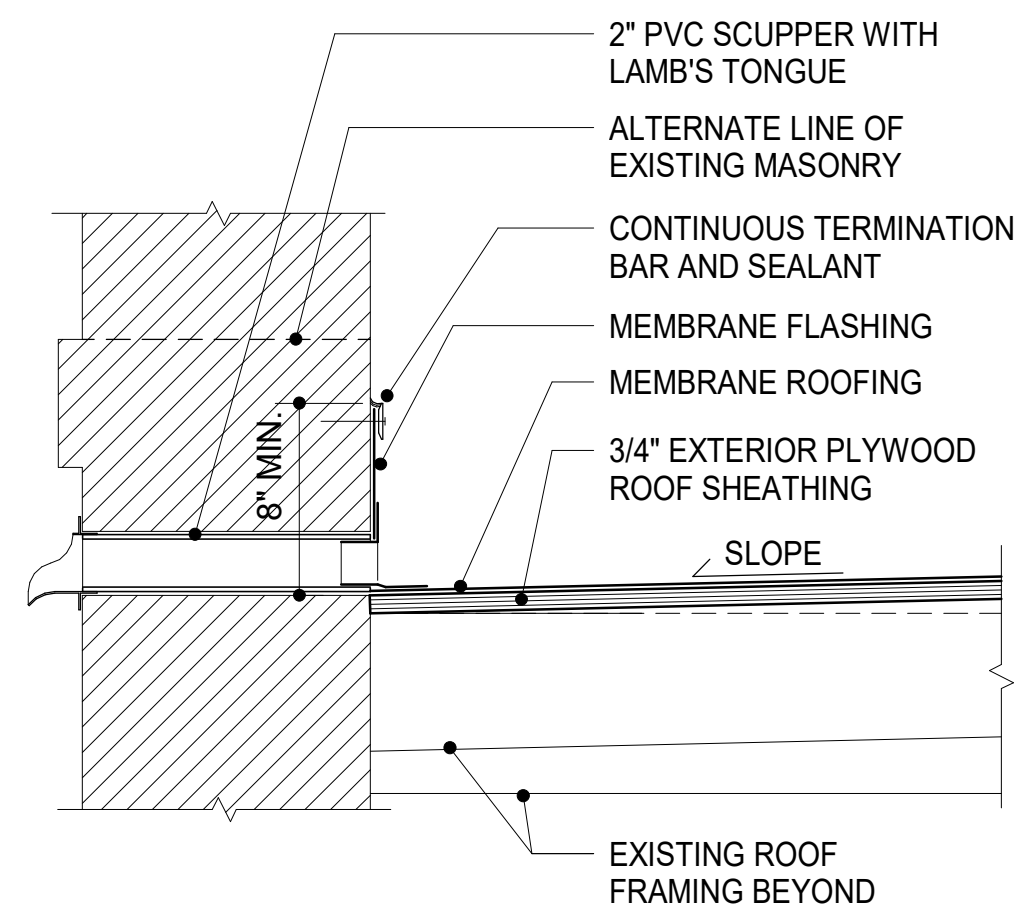


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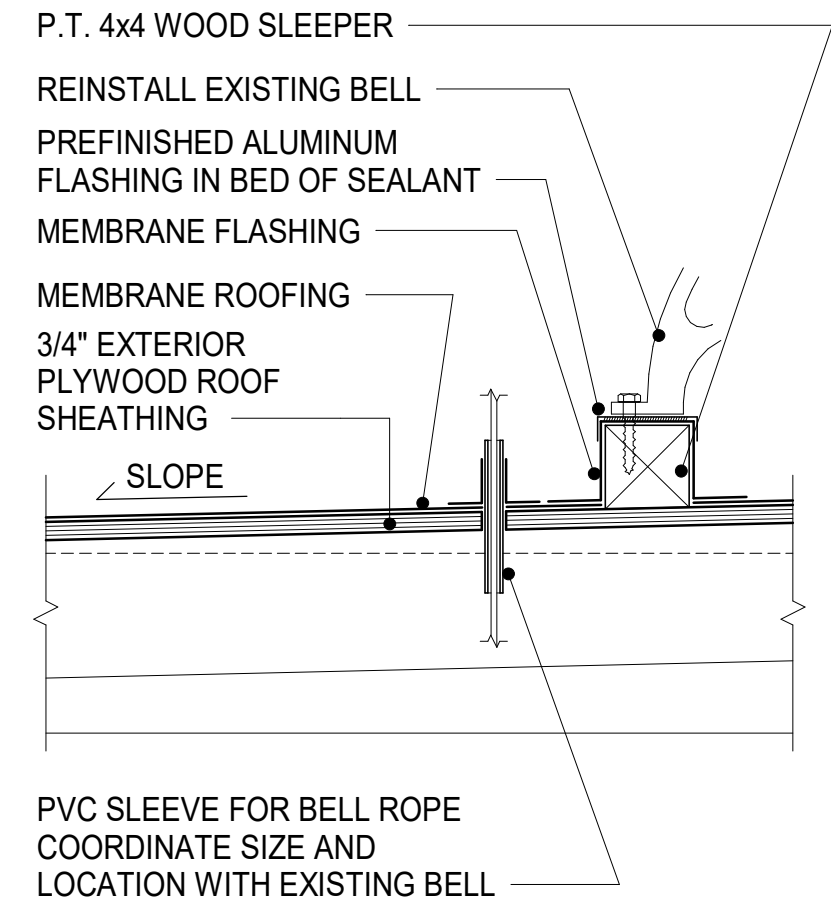
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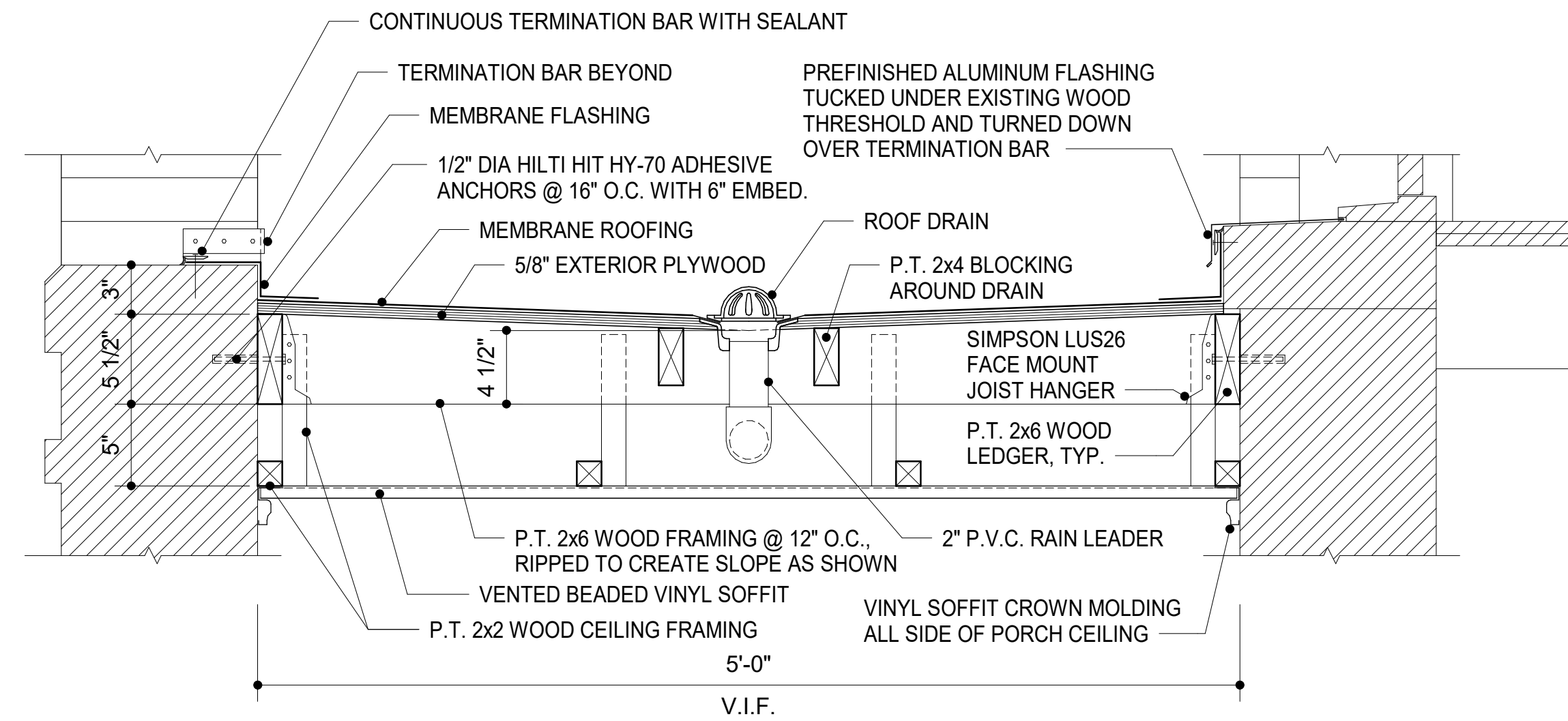
A-501



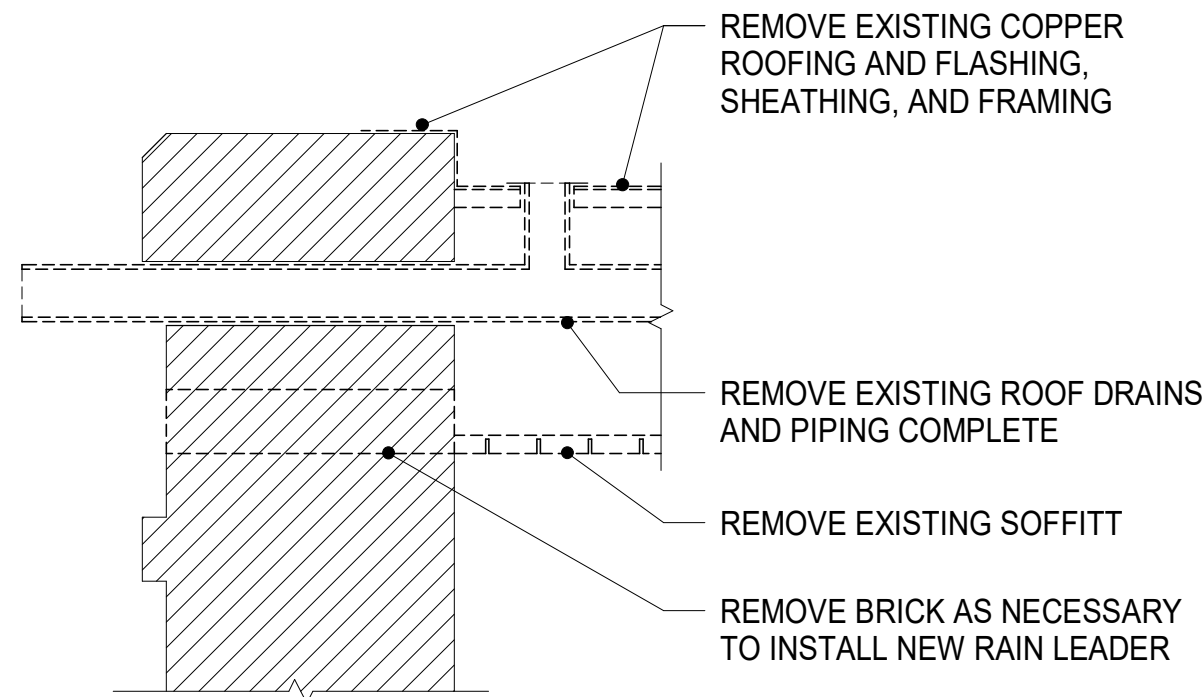
1 BELL TOWER DRAIN DETAIL
A-102 1 1/2" = 1'-0"



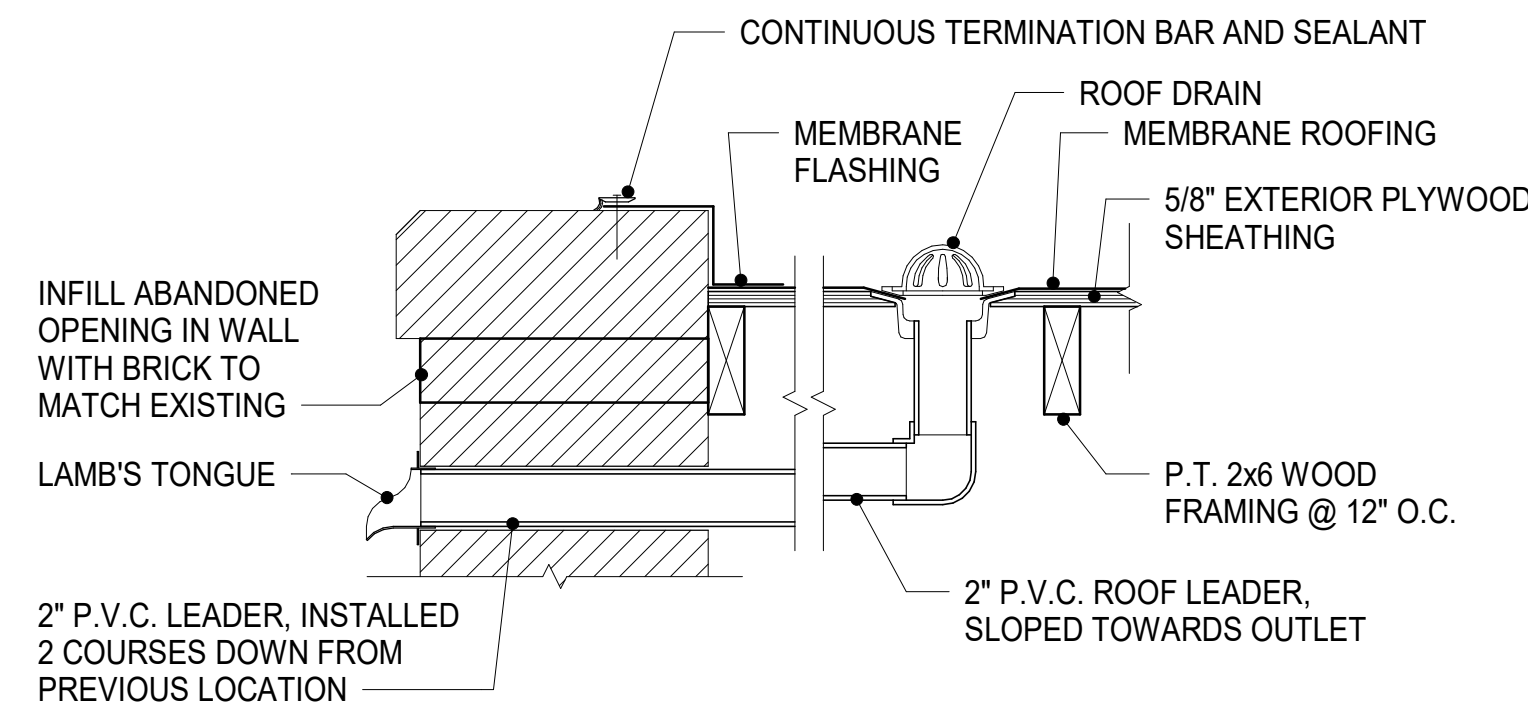
2 BELL CURB DETAIL
A-102 1 1/2" = 1'-0"



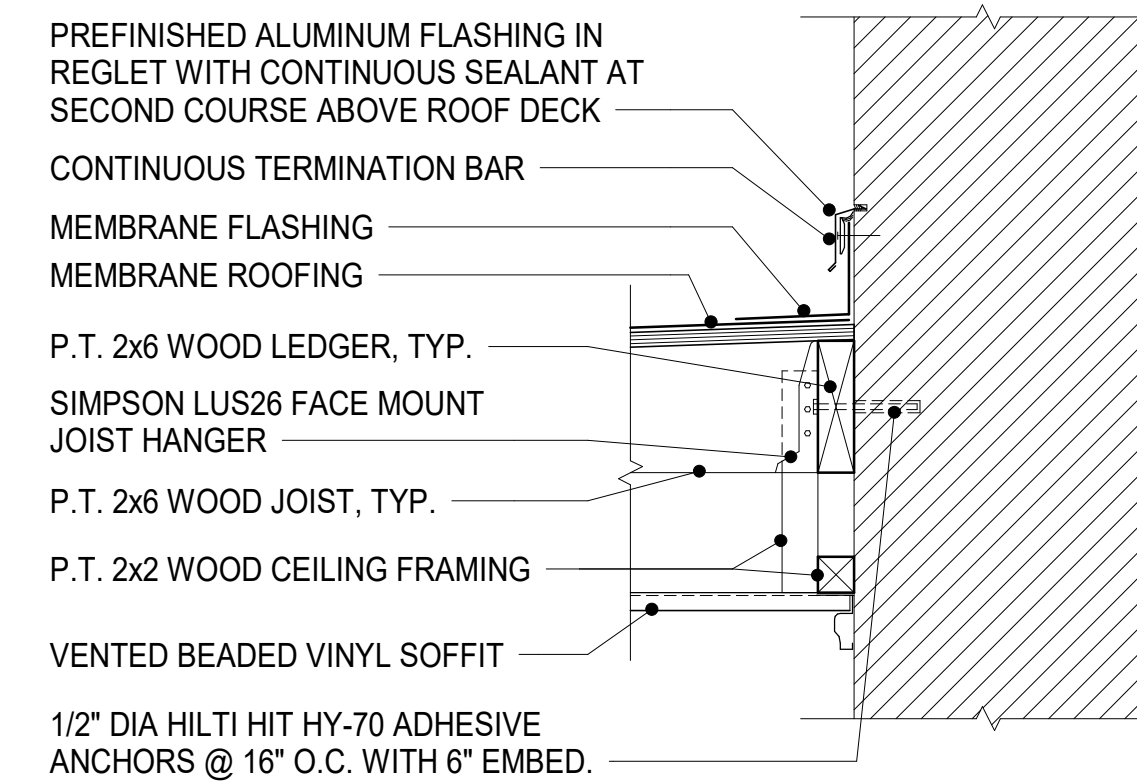
3 PORCH ROOF SECTION
A-101 1 1/2" = 1'-0"



4 PORCH ROOF DRAIN DEMOLITION DETAIL
A-102 1 1/2" = 1'-0"



5 PORCH ROOF DRAIN NEW WORK DETAIL
A-102 1 1/2" = 1'-0"



6 PORCH ROOF FLASHING DETAIL
A-102 1 1/2" = 1'-0"



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A-502



1 TYPICAL FLASHING AND COUNTERFLASHING TO BE REMOVED AND REPLACED



2 TYPICAL FLASHING AND COUNTERFLASHING TO BE REMOVED AND REPLACED



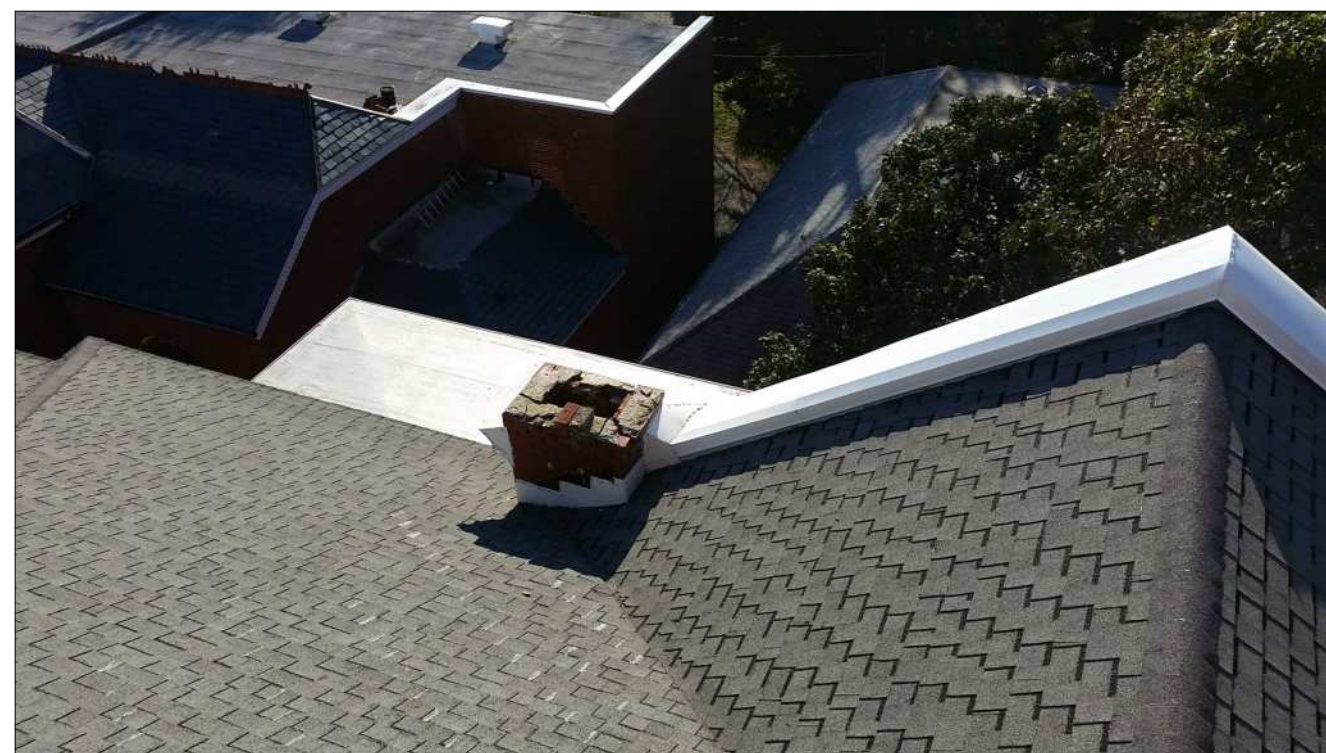
3 TYPICAL FLASHING AND COUNTERFLASHING TO BE REMOVED AND REPLACED



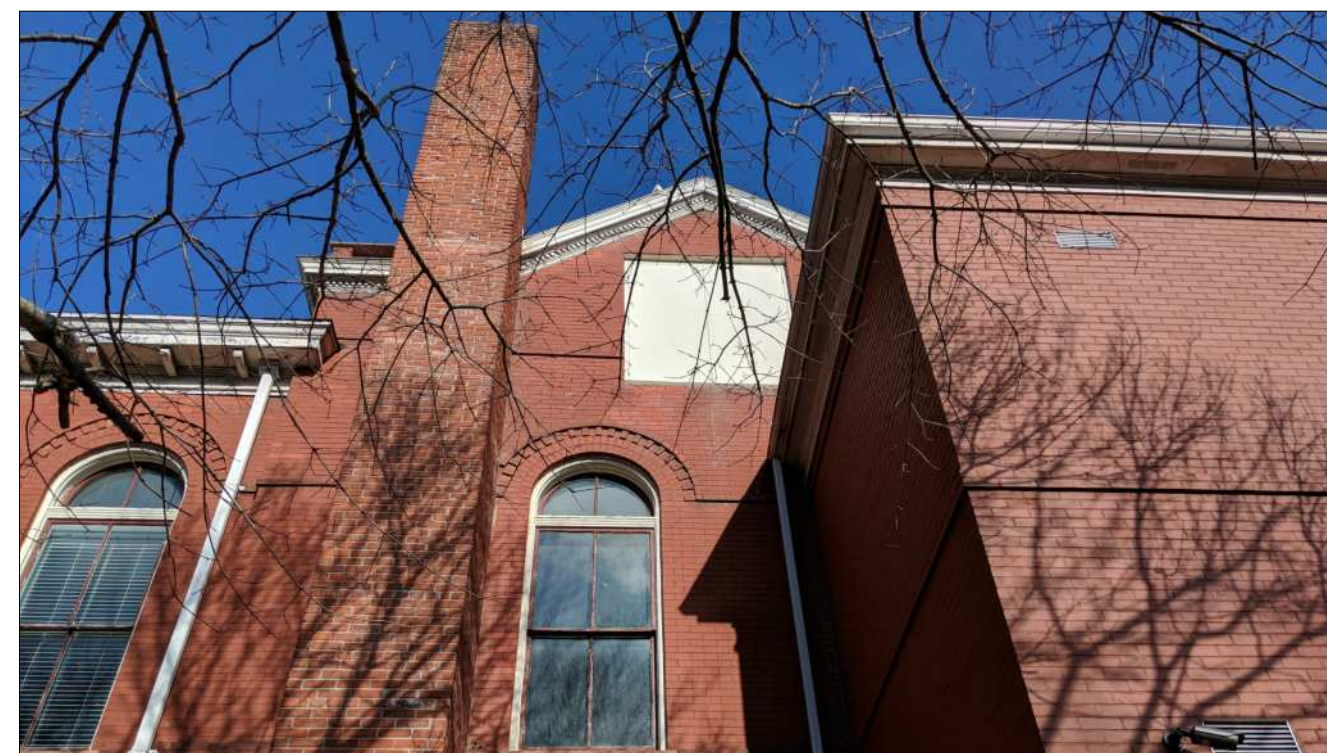
4 COPPER ROOF AND FLASHING AT PORCH TO BE REMOVED



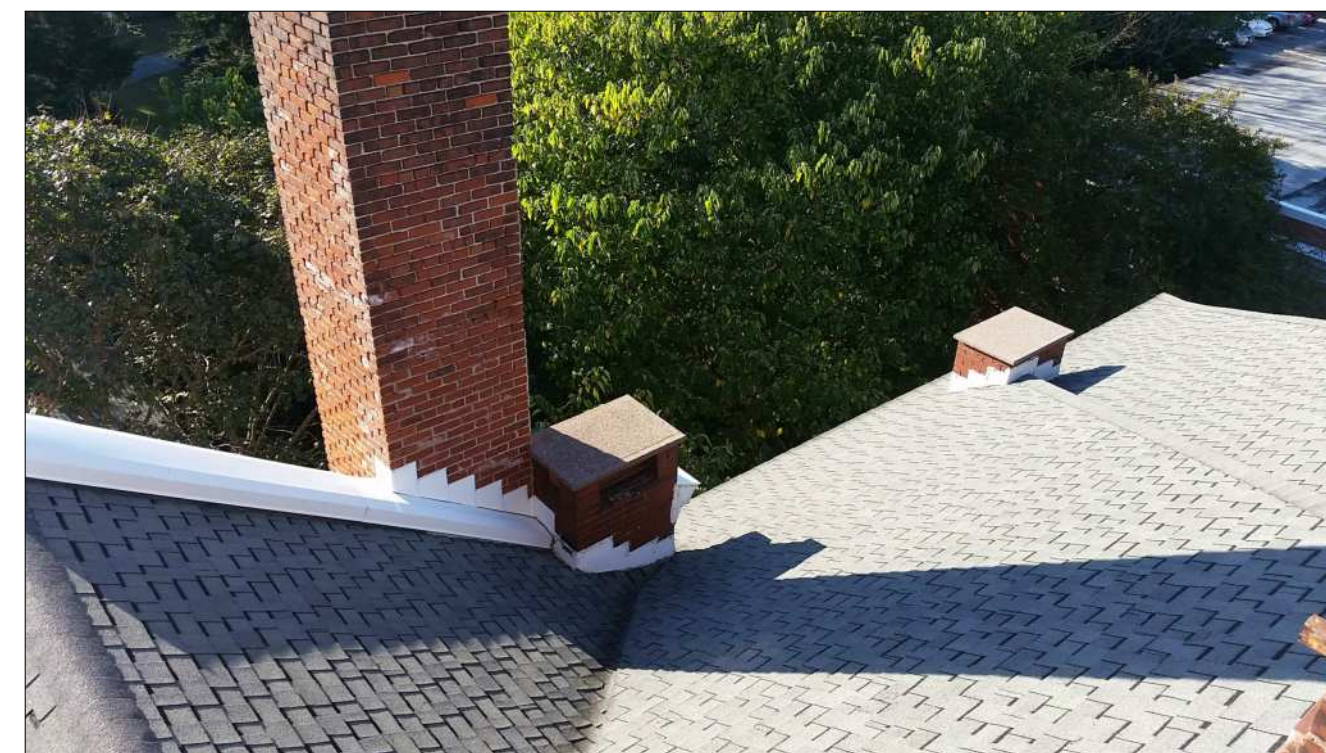
5 TYPICAL CHIMNEY CAP TO BE REMOVED AND REPLACED.



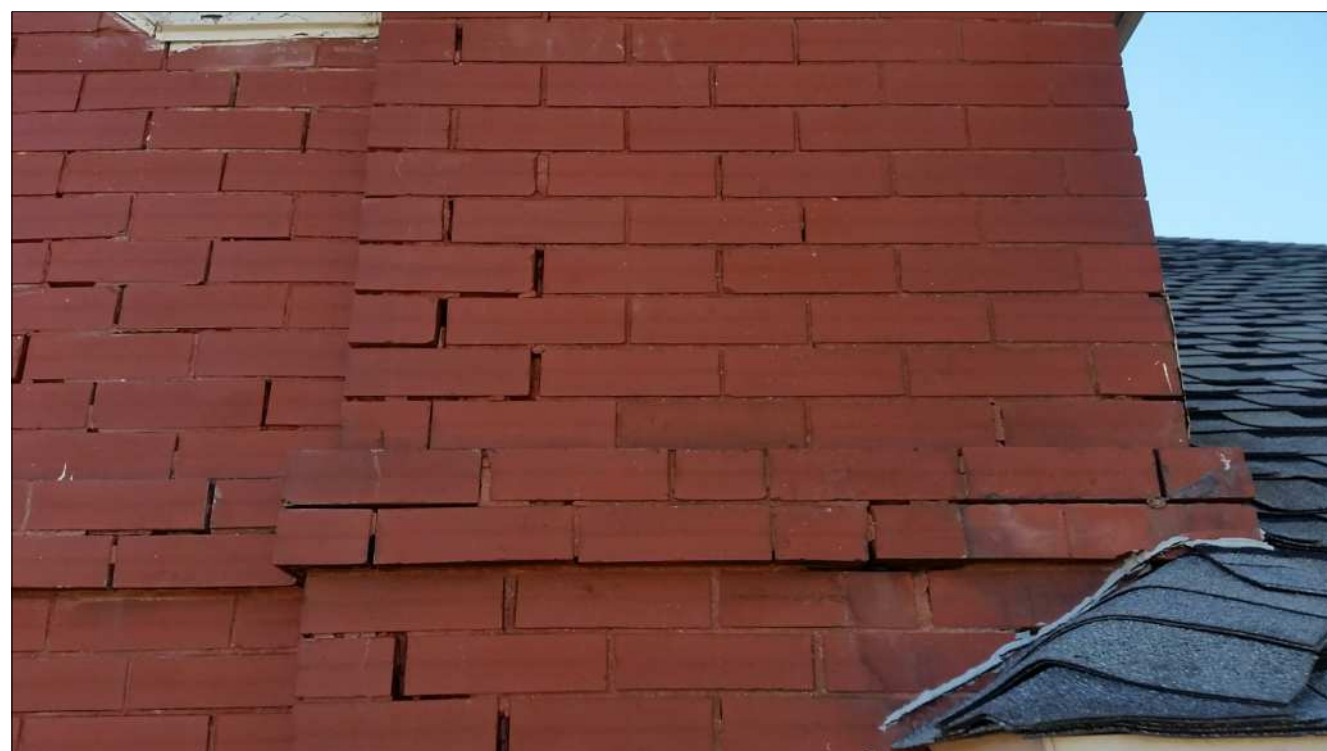
6 CHIMNEY TO BE REPAIRED AND PROVIDE CAP.



7 CHIMNEY TO BE REMOVED COMPLETE.



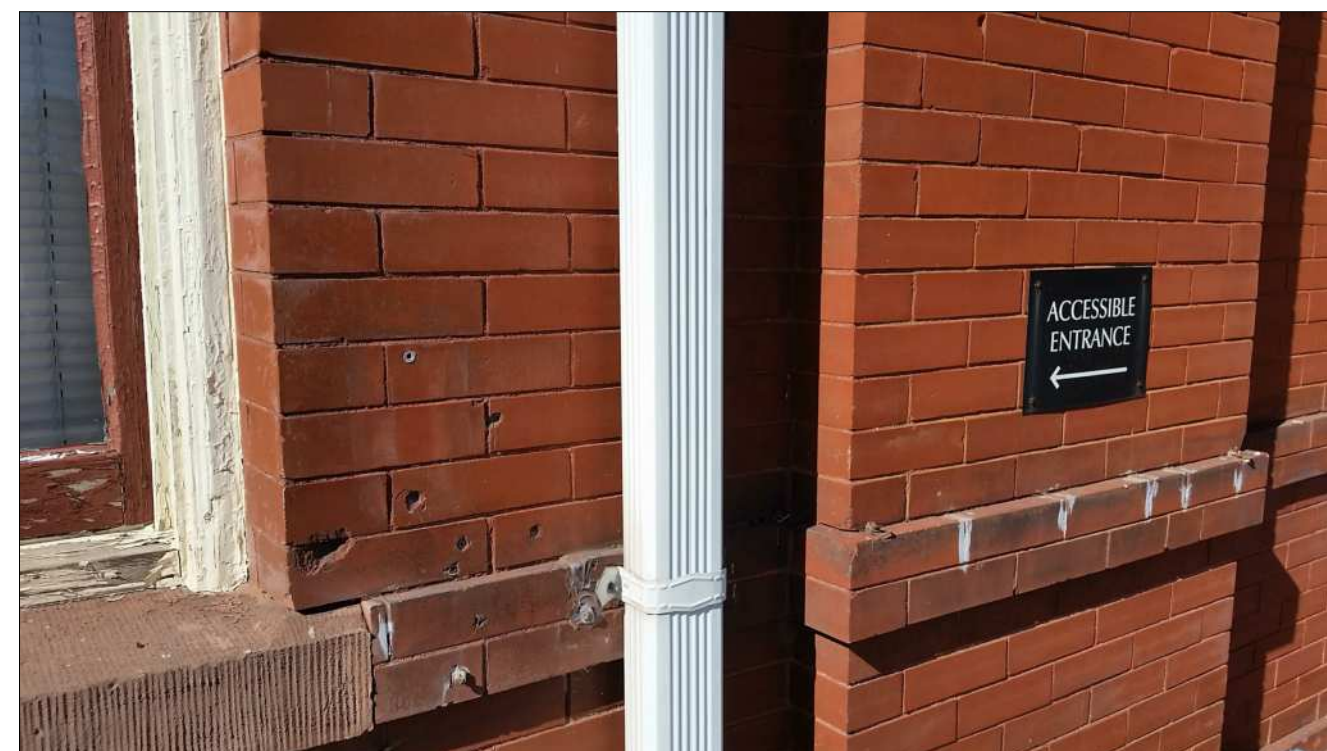
8 TALL CHIMNEY TO BE REMOVED COMPLETE. METAL COPING CAP TO BE REMOVED AND REPLACED AFTER CHIMNEY DEMOLITION.



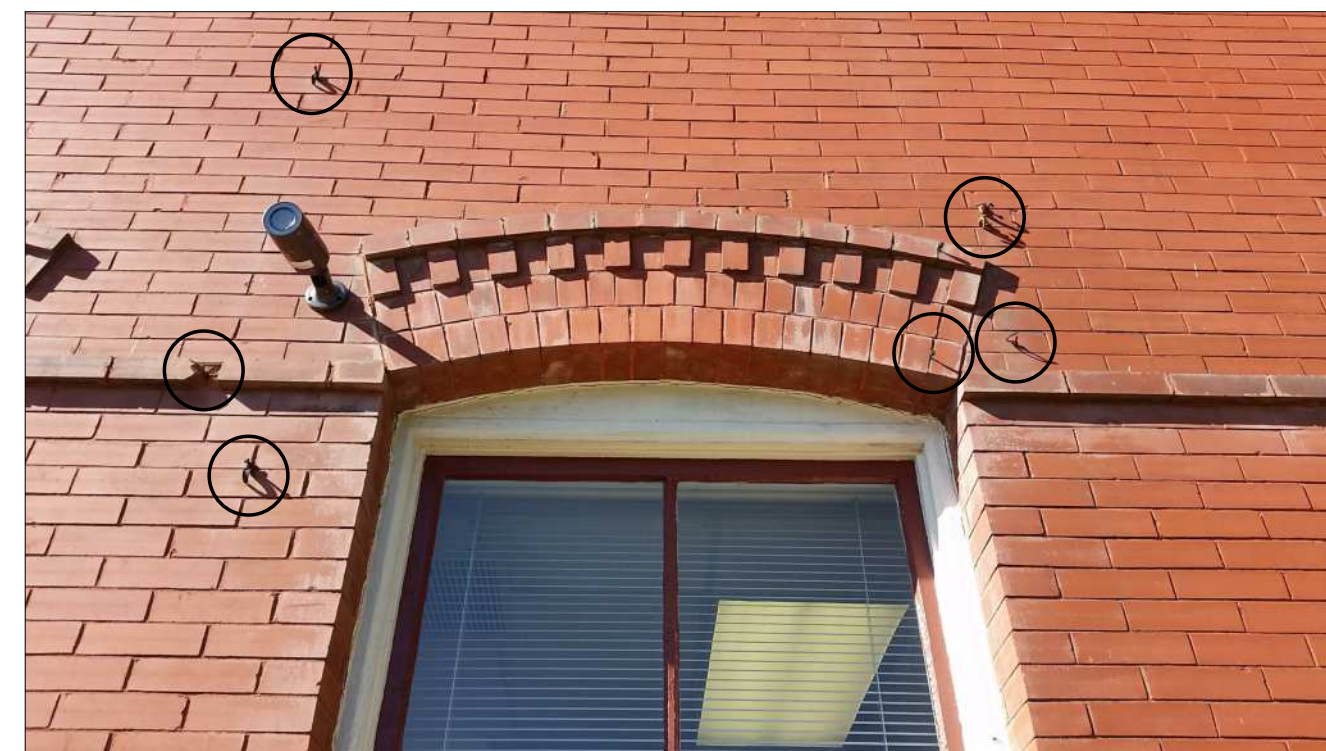
9 TYPICAL FAILED OR MISSING MORTAR JOINTS TO BE REPOINTED.



10 TYPICAL PAINT ON BRICKS TO BE REMOVED.



11 TYPICAL HOLES OR DAMAGE FROM PREVIOUSLY REMOVED FASTENERS TO BE REPAIRED



12 TYPICAL DAMAGE FROM PREVIOUSLY REMOVED FASTENER TO BE REPAIRED, AND ABANDONED FASTENERS TO BE REMOVED AND HOLES REPAIRED.



13 TYPICAL MISMATCHED BRICKS USED IN PREVIOUS REPAIR, TO BE REMOVED AND REPLACED.



14 TYPICAL FAILED JOINT IN METAL CORNICE TO BE REPAIRED.



15 TYPICAL JOINT REPAIR WITH INCORRECT PATCHING MATERIALS. REMOVE AND REPAIR METAL TRIM WITH METAL WHICH MATCHES ORIGINAL GAUGE AND PROFILE.

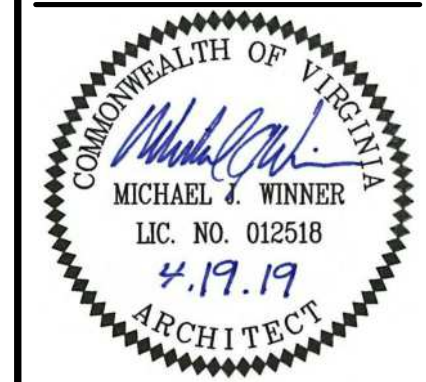


16 TYPICAL DOWNSPOUT TO BE REMOVED AND SOFFIT REPAIRED PRIOR TO INSTALLATION OF NEW DOWNSPOUT.



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17 PARAPET CAP HOLDING WATER, TO BE REBUILT TO PROVIDE DRAINAGE.



18 TYPICAL FAILING JOINT IN WINDOW SASH TO BE REPAIRED



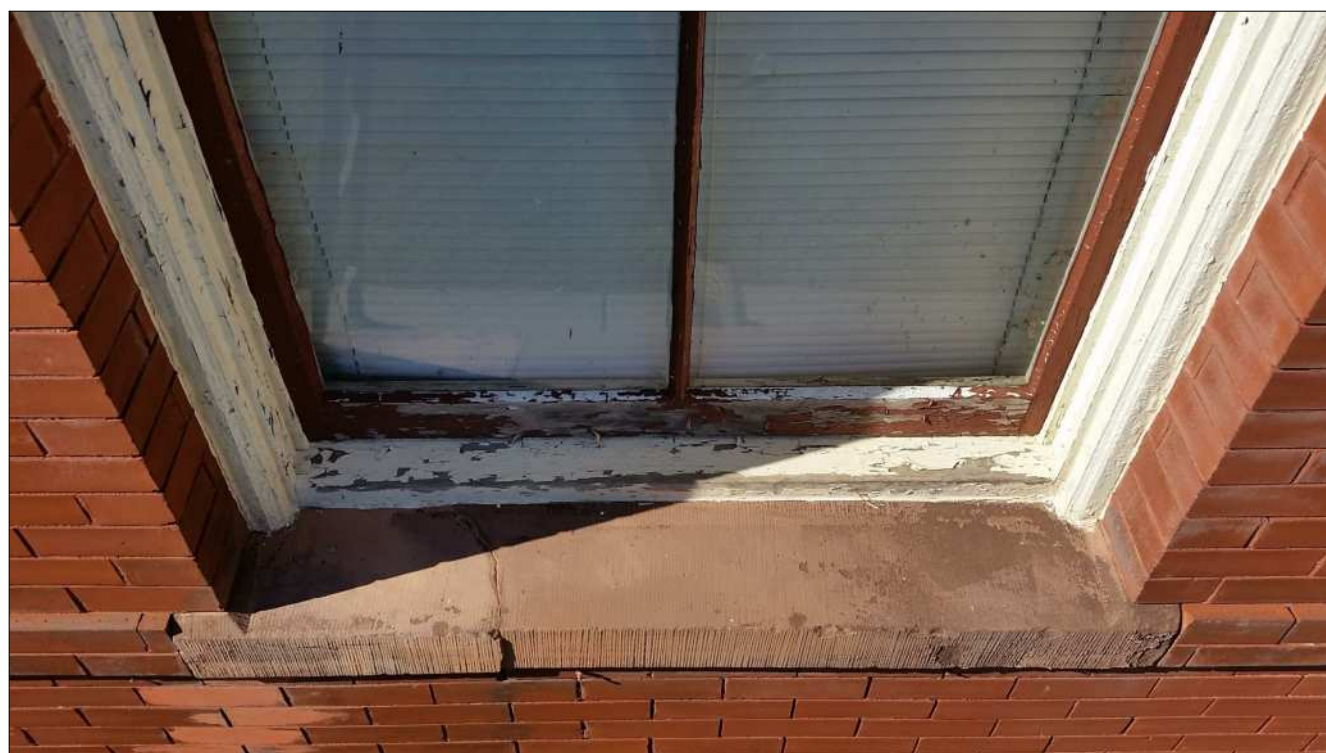
19 TYPICAL PROTRUDING DOWEL TO BE REPAIRED. COAT DOWEL WITH WATER PROOF ADHESIVE AND RESET FLUSH WITH ADJACENT SURFACE. REPLACE DOWEL IF DETERIORATED



20 TYPICAL CRACKS IN WOOD SILL TO BE REPAIRED.



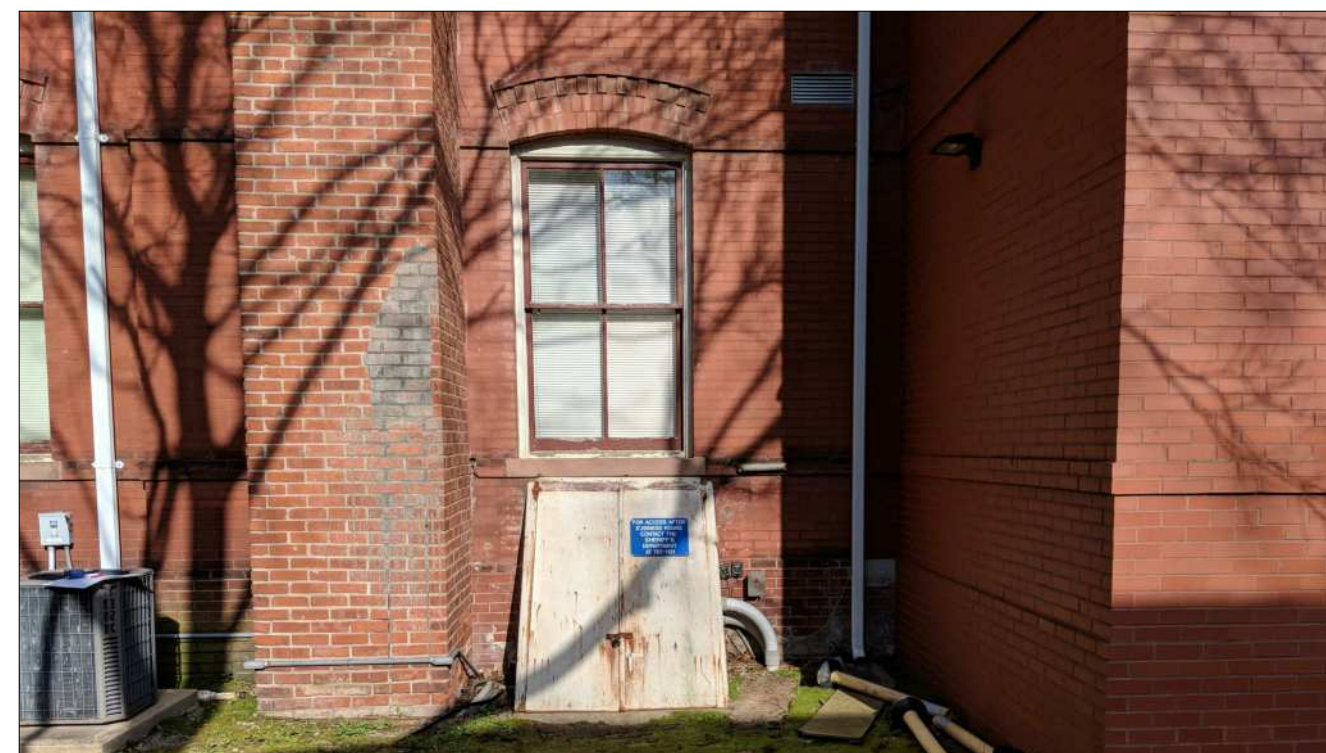
21 TYPICAL DETERIORATED SASHES STOP TO BE REPAIRED AND SOFT WOOD AT WINDOW SASH TO BE TREATED.



22 TYPICAL CRACKED STONE SILL TO BE REPAIRED.



23 IRON WORK TO BE REPAINTED.



24 BASEMENT HATCH TO BE REPLACED.



25 EAST ELEVATION



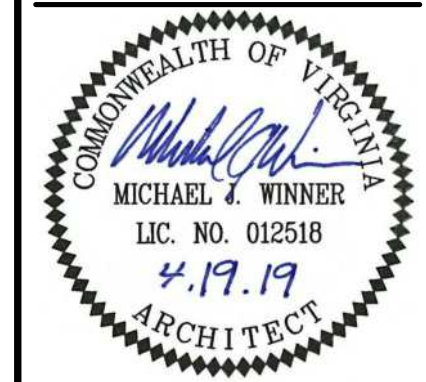
26 SOUTH ELEVATION



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A-602

GENERAL NOTES

DEMOLITION

EXISTING HVAC PIPING, DUCTWORK, AND EQUIPMENT SHOWN IS BASED ON EXISTING PLANS AND FIELD OBSERVATION WITHOUT DEMOLITION. AFTER DEMOLITION, ANY CLARIFICATION REQUIRED TO DETERMINE SCOPE OF WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

THE CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS.

DRAWINGS DO NOT SHOW EVERY EXISTING PIPE, CONDUIT, DUCT, ETC. CONTRACTOR SHALL TAKE CARE TO REMOVE ONLY ITEMS REQUIRED TO BE REMOVED AND VERIFY PIPES, DUCTS, ETC. BEFORE REMOVAL.

REMOVAL OF ITEMS SHALL INCLUDE ASSOCIATED HANGERS, ANCHOR BOLTS AND OTHER APPURTENANCES. WHERE SUCH REMOVAL RESULTS IN OPEN HOLES, VOIDS OR EXPOSURE OF DAMAGED SURFACES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND FINISHING THE SURFACE TO MATCH ADJACENT CONDITIONS. THIS WORK SHALL BE COORDINATED WITH ARCHITECTURAL FINISH SCHEDULES WHERE APPLICABLE.

BUILDING IS TO REMAIN OCCUPIED DURING CONSTRUCTION. REMOVAL OR SHUT-DOWN OF EQUIPMENT THAT AFFECTS ANY OCCUPIED AREA'S AIR CONDITIONING OR HEATING SHALL ONLY BE DONE AS APPROVED OR TEMPORARY AIR CONDITIONING OR HEATING SHALL BE PROVIDED AT CONTRACTOR'S EXPENSE. THIS MAY REQUIRE NIGHT AND WEEKEND WORK TO KEEP BUILDING IN OPERATION.

REMOVE EXISTING DUCTWORK AND PIPING NOT TO BE REUSED.

ALL MATERIALS REMOVED UNDER DEMOLITION, NOT TO BE RELOCATED OR DESIGNATED TO BE TURNED OVER TO THE OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED, AND SHALL BE REMOVED COMPLETELY FROM THE SITE.

GENERAL ITEMS

GENERAL NOTES ON THIS DRAWING ARE APPLICABLE TO EACH HVAC DRAWING OF THIS SET. SEE EACH DRAWING FOR SPECIFIC NOTES APPLICABLE TO THAT DRAWING.

OVERHEAD DUCTWORK IN SPACES WITH CEILINGS SHALL BE CONCEALED UNLESS OTHERWISE NOTED.

PROVIDE PIPE SLEEVES LARGE ENOUGH TO ALLOW FOR REQUIRED LATERAL MOVEMENT OF PIPING.

COORDINATE LOCATION OF GRILLES, REGISTERS, DIFFUSERS, THERMOSTATS AND OTHER WALL OR CEILING MOUNTED HVAC ACCESSORIES WITH REFLECTED CEILING PLAN, LIGHTING FIXTURE LAYOUT AND ACCESSORIES INSTALLED BY OTHER TRADES SO AS TO PRESENT A NEAT AND ATTRACTIVE INSTALLATION THROUGHOUT THE ENTIRE BUILDING. IT IS THE INTENT FOR GRILLES, REGISTERS AND DIFFUSERS TO BE INSTALLED IN THE CENTER OF CEILING PANELS.

ARRANGE PIPING AND DUCTWORK, PARTICULARLY ABOVE CEILING AS REQUIRED TO CLEAR STRUCTURE, DUCTS, CONDUITS, ETC. ALLOWING SPACE FOR PIPE HANGERS, EXPANSION LOOPS AND ACCESS TO VALVES, FILTERS, AND MAINTENANCE OF EQUIPMENT.

CONTRACTOR SHALL VERIFY REFRIGERANT PIPE SIZES WITH EQUIPMENT MANUFACTURER FOR THE INDICATED INSTALLATION.

COORDINATE LOCATION AND INSTALLATION OF EQUIPMENT WITH OTHER TRADES.

DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DOORS, WINDOWS, ETC.

THERMOSTATS SHALL BE LOCATED IN THE ROOMS INDICATED. INSTALL AT APPROX. 46" ABOVE FINISH FLOOR TO MATCH THE HEIGHT OF WALL SWITCHES OR OTHER WALL MOUNTED DEVICES.

PIPING, DUCTWORK, VENTS, ETC., EXTENDING THROUGH EXTERIOR WALLS AND ROOF SHALL BE FLASHED AND COUNTER FLASHED IN A WEATHERPROOF MANNER.

EXTEND DRAIN LINES TO NEAREST FLOOR DRAIN OR AS INDICATED. ROUTING SHALL NOT INTERFERE WITH PASSAGeways AND MAINTENANCE. DRAINS FROM AIR CONDITIONING CONDENSATE DRAIN PANS SHALL BE TRAPPED. SLOPE CONDENSATE DRAIN PIPING AT 1/4" PER FOOT. VERIFY INVERT IS ESTABLISHED AFTER AIR HANDLING UNIT IS INSTALLED BUT PRIOR TO DUCTWORK INSTALLATION.

EQUIPMENT CONTAINING AIR CONDITIONING COILS WHICH DO NOT HAVE A SECONDARY DRAIN OR AUXILIARY DRAIN PAN SHALL BE FITTED WITH A WATER LEVEL SENSOR IN THE PRIMARY DRAIN PAN. THE SENSOR SHALL BE WIRED TO DE-ENERGIZE THE EQUIPMENT IF WATER RISES ABOVE THE DRAIN OUTLET.

PIPING AND DUCTWORK INSULATION SHALL BE RUN CONTINUOUSLY THROUGH NON-RATED FLOORS, WALLS, ROOF AND PARTITIONS, UNLESS OTHERWISE INDICATED.

NO PIPING SHALL BE SMALLER THAN 3/4" UNLESS OTHERWISE NOTED.

PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS. ADDITIONAL SUPPORTS OR HANGERS SHALL BE ADJACENT TO ELBOWS, TO PREVENT WEIGHT OF PIPING BEING PLACED ON THE EQUIPMENT.

LOCATE AND SIZE CONCRETE PADS PER ARCHITECTURAL DRAWINGS FOR MECHANICAL EQUIPMENT IN ACCORDANCE WITH ACTUAL EQUIPMENT PURCHASED.

FOR LOCATION OF MOTOR STARTERS, SEE ELECTRICAL DRAWINGS.

SHEET METAL

SPACE ABOVE CEILING IS TO BE USED AS A RETURN AIR PLENUM WHERE DUCTWORK IS NOT INDICATED ABOVE RETURN AIR GRILLES.

PROVIDE A MINIMUM OF THREE TIMES THE FAN DIAMETER OF STRAIGHT DUCTWORK OFF THE SUPPLY AIR FAN DISCHARGE BEFORE ANY TAKEOFFS OR ELBOWS.

DUCTWORK SHALL BE CONSTRUCTED TO THE SMACNA STATIC PRESSURE CLASSIFICATION OF 2 IN. WG AND SEAL CLASS "A".

PROVIDE EXTENDED VOLUME DAMPER CONTROL RODS SO THAT HANDLES ARE WELL CLEAR OF DUCT INSULATION.

MAINTENANCE

EQUIPMENT WITH FILTERS SHALL BE INSTALLED SO THAT FILTERS CAN BE EASILY REMOVED AND REPLACED.

PROVIDE ACCESS TO ANY INSPECTION OR MAINTAINABLE DEVICE, EQUIPMENT, ETC. - ACCESS OR ACCESS DOOR SHALL BE OF ADEQUATE SIZE TO WORK ON DEVICE.

EXAMINE MANUFACTURER'S LITERATURE TO DETERMINE RECOMMENDED CLEARANCES. THESE CLEARANCES, IN ADDITION TO MINIMUM CLEARANCES REQUIRED BY THE NATIONAL ELECTRICAL CODE, SHALL BE ESTABLISHED AND MAINTAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE REQUIREMENTS WITH ALL OTHER TRADES.

INTERDISCIPLINARY COORDINATION

IF THIS CONTRACTOR SHOULD ELECT TO PROPOSE ANY EQUIPMENT THAT HAS DIFFERENT PHYSICAL OR ELECTRICAL CHARACTERISTICS, ETC. WHEN COMPARED TO THE BASIS OF DESIGN EQUIPMENT, THIS CONTRACTOR IS RESPONSIBLE FOR COORDINATING THESE CHANGES WITH THE OTHER TRADES PRIOR TO ORDERING OF EQUIPMENT. IF THERE SHOULD BE ANY ADDITIONAL WORK INCURRED BY THE OTHER TRADES AS A RESULT OF THIS CONTRACTOR'S EQUIPMENT SELECTION, ALL COSTS ASSOCIATED WITH THE ADDITIONAL WORK SHALL BE BORNE BY THIS CONTRACTOR.

PRE-TAB NOTE:

PERFORM AN AIRSIDE PRE-BALANCE (AIRFLOW AND TOTAL STATIC PRESSURE) ON THE BELOW EXISTING EQUIPMENT IN WORK AREA PRIOR TO ANY DEMOLITION WORK. SUBMIT PRE-BALANCE DATA TO ARCHITECT.

- MULTIZONE AHU IN ATTIC
- 5 ZONES AND ASSOCIATED DIFFUSERS
- 2 SPLIT SYSTEM HEAT PUMPS IN ATTIC


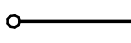

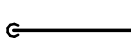

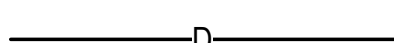





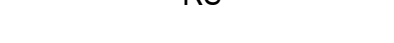

















ENERGY CODE COMPLIANCE PATH:

- ASHRAE 90.1
 VECC CHAPTER 4 - PRESCRIPTIVE
 VECC CHAPTER 4 - PERFORMANCE

APPLICABLE CODE:

- VIRGINIA MECHANICAL CODE 2012

LEGENDS & ABBREVIATIONS

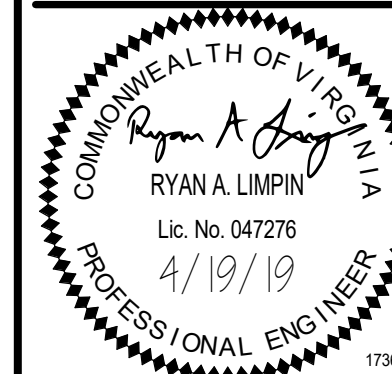
	DEMOLITION NOTE DESIGNATION		PIPE TURNING UP
	NEW WORK NOTE DESIGNATION		PIPE TURNING DOWN
	NEW POINT OF CONNECTION		CONDENSATE DRAIN PIPING
	LIMIT OF DEMOLITION WORK		REFRIGERANT LIQUID PIPING
	ACCU-1 AIR COOLED CONDENSING UNIT DESIGNATION		REFRIGERANT SUCTION PIPING
	AHU-1 AIR HANDLING UNIT DESIGNATION		HOT WATER SUPPLY PIPING
	EF-1 EXHAUST FAN DESIGNATION		HOT WATER RETURN PIPING
	HP-1 HEAT PUMP DESIGNATION		
	WALL THERMOSTAT		
	BACKDRAFT DAMPER		
	VOLUME DAMPER		
	GRILLE, REGISTER, OR DIFFUSER MARK (CFM AS INDICATED)		
	DUCT TURNING UP		
	DUCT TURNING DOWN		
	CEILING DIFFUSER WITH FLEXIBLE DUCTWORK		
	RETURN REGISTER WITH DUCTWORK		
	EXHAUST GRILLE WITH DUCTWORK		
	MITERED ELBOW WITH TURNING VANES		
	FLEXIBLE DUCT CONNECTOR		
	SUPPLY AIR/OUTSIDE AIR DUCT SECTION THROUGH FLOOR		
	RETURN AIR DUCT SECTION THROUGH FLOOR		
	EXHAUST AIR DUCT SECTION THROUGH FLOOR		

APD	AIR PRESSURE DROP
CFM	CUBIC FEET PER MINUTE
COP	COEFFICIENT OF PERFORMANCE
DB	DRY BULB TEMPERATURE
E.A.	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATING
ETR	EXISTING TO REMAIN
ESP	EXTERNAL STATIC PRESSURE
FLA	FULL LOAD AMPS
HP	HORSEPOWER
IN	INCH
KW	KILOWATT
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MOC	MAXIMUM OVERCURRENT PROTECTION
NC	NOISE CRITERIA
O.A.	OUTSIDE AIR
R.A.	RETURN AIR
S.A.	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATING
SENS.	SENSIBLE
(TYP.)	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
WB	WET BULB TEMPERATURE
WG	WATER GAUGE
°F	DEGREE FAHRENHEIT
Ø	PHASE/DIAMETER

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 EXTERIOR RENOVATION & HVAC REPLACEMENT

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LEGEND, NOTES AND
 ABBREVIATIONS

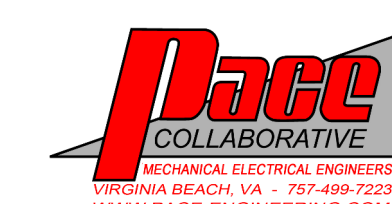


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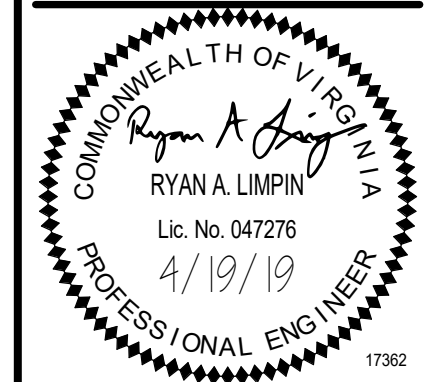


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 FIRST FLOOR DEMOLITION PLAN



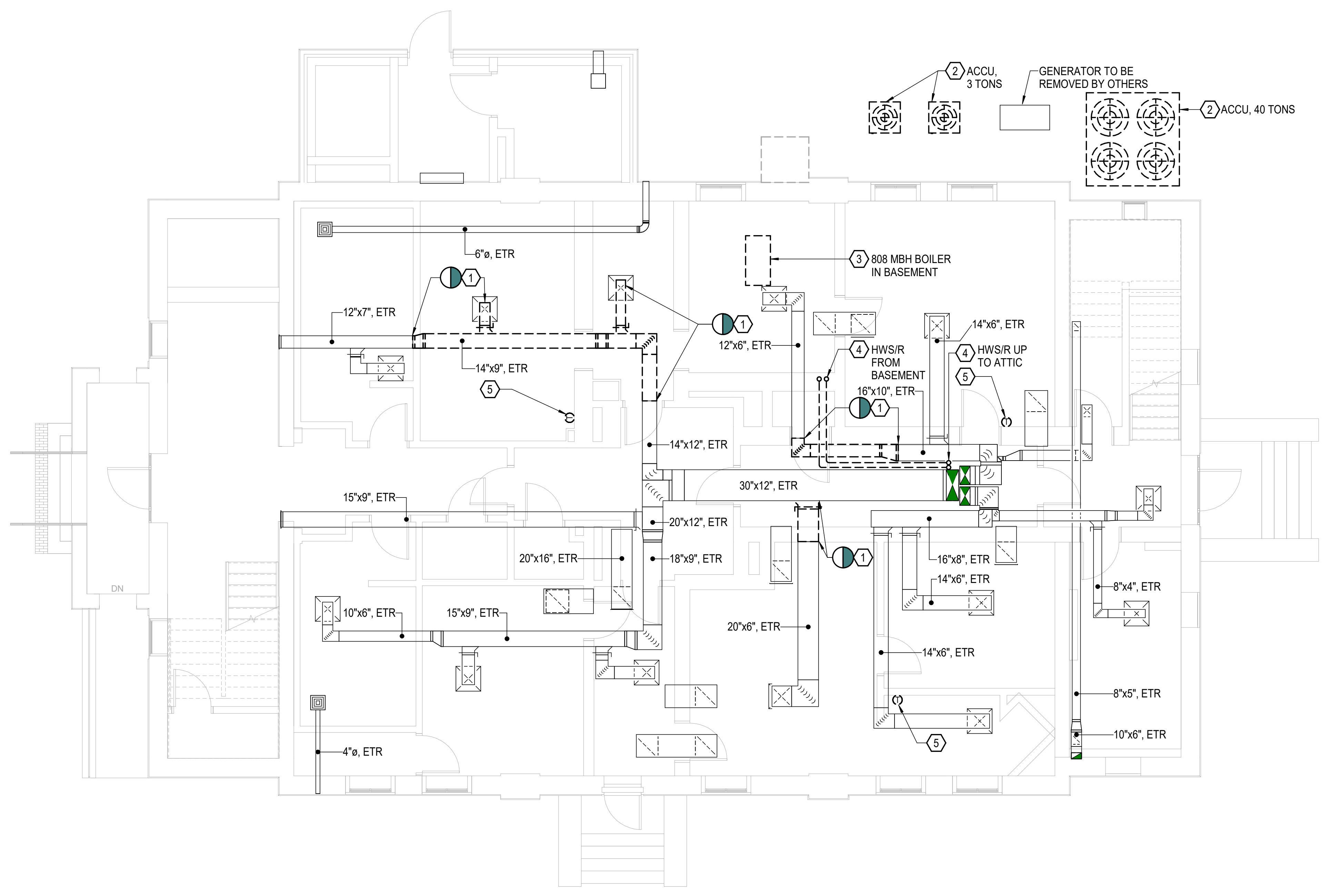
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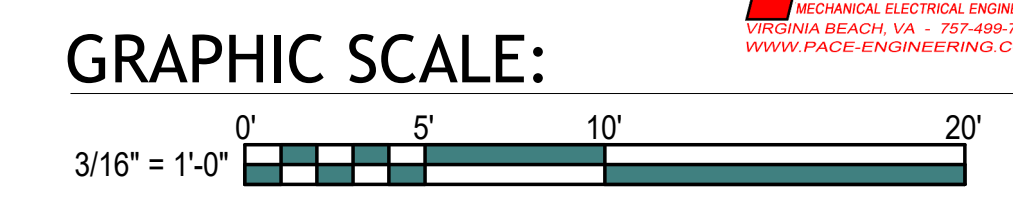
MD101

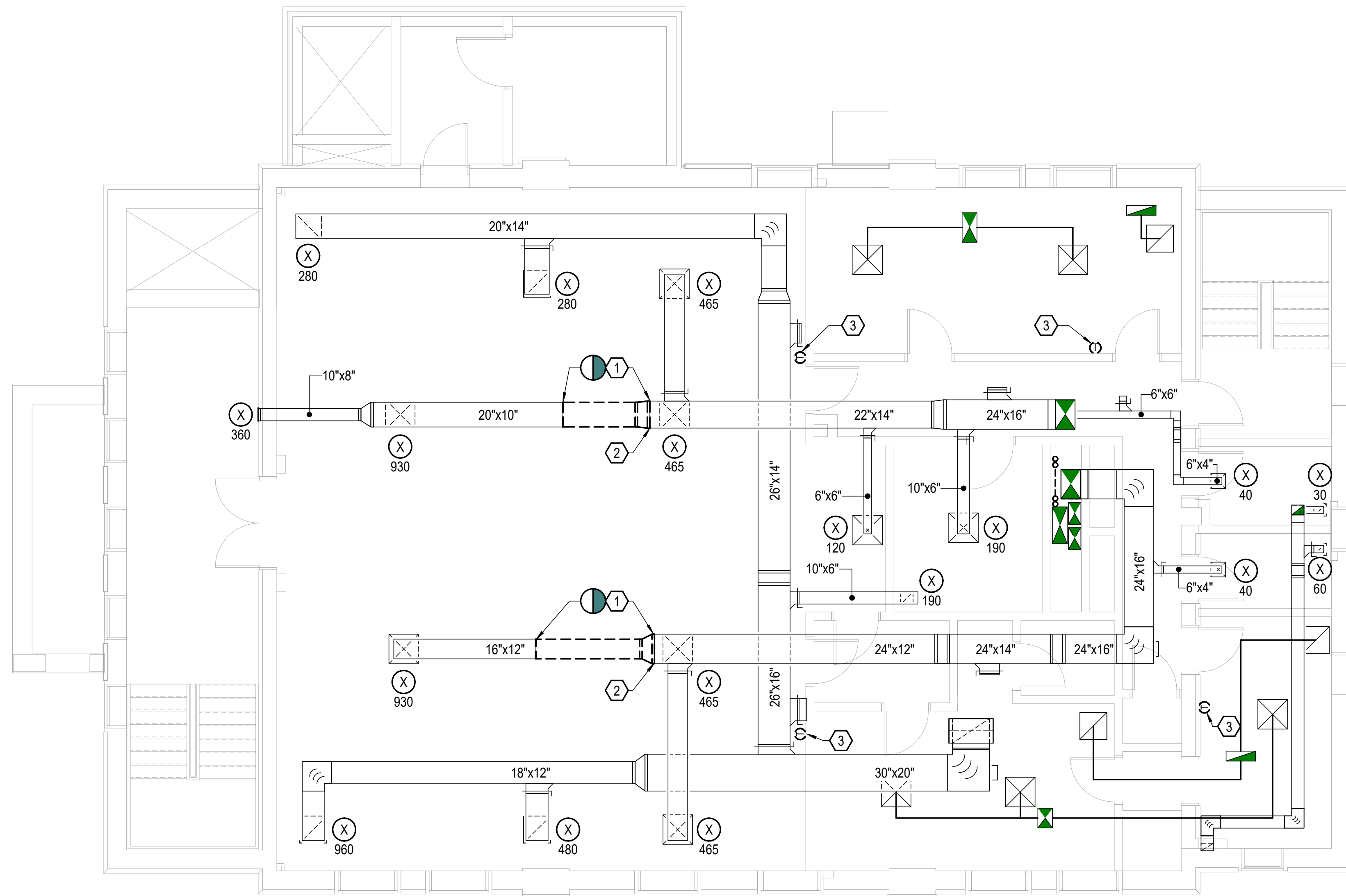
NOTES THIS SHEET

- 1 REMOVE DUCTWORK, INSULATION, HANGERS AND SUPPORTS COMPLETE OR TO LIMITS INDICATED.
- 2 REMOVE AIR COOLED CONDENSER UNIT AND SUPPORTS COMPLETE.
- 3 REMOVE BOILER AND ASSOCIATED HOT WATER PIPING IN MECHANICAL BASEMENT. HOT WATER PIPING IN CRAWL SPACE TO CAPPED AT ENDS AND ABANDONED.
- 4 REMOVE HOT WATER PIPING, INSULATION AND SUPPORTS COMPLETE FROM BASEMENT TO ATTIC SPACE. RS/RL PIPING TO ROUTED IN HWS/R PIPING LOCATION.
- 5 REMOVE THERMOSTAT, CONTROL WIRING AND SUPPORTS COMPLETE.



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





NOTES THIS SHEET

- ① REMOVE DUCTWORK, INSULATION, HANGERS AND SUPPORTS COMPLETE OR TO LIMITS INDICATED.
- ② PROVIDE INSULATED AIRTIGHT CAP.
- ③ REMOVE THERMOSTAT, CONTROL WIRING AND SUPPORTS COMPLETE.

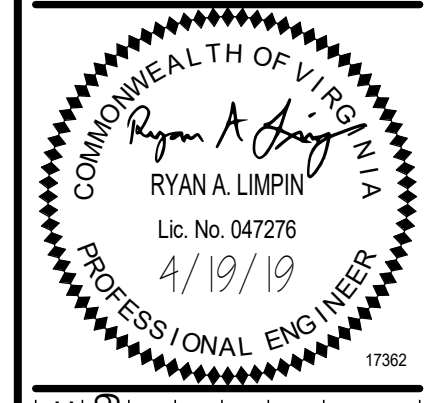
SECOND FLOOR DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

GRAPHIC SCALE:



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ACCOMACK COUNTY CIRCUIT COURTHOUSE
EXTERIOR RENOVATION & HVAC REPLACEMENT
ACCOMACK, VA
SECOND FLOOR DEMOLITION PLAN

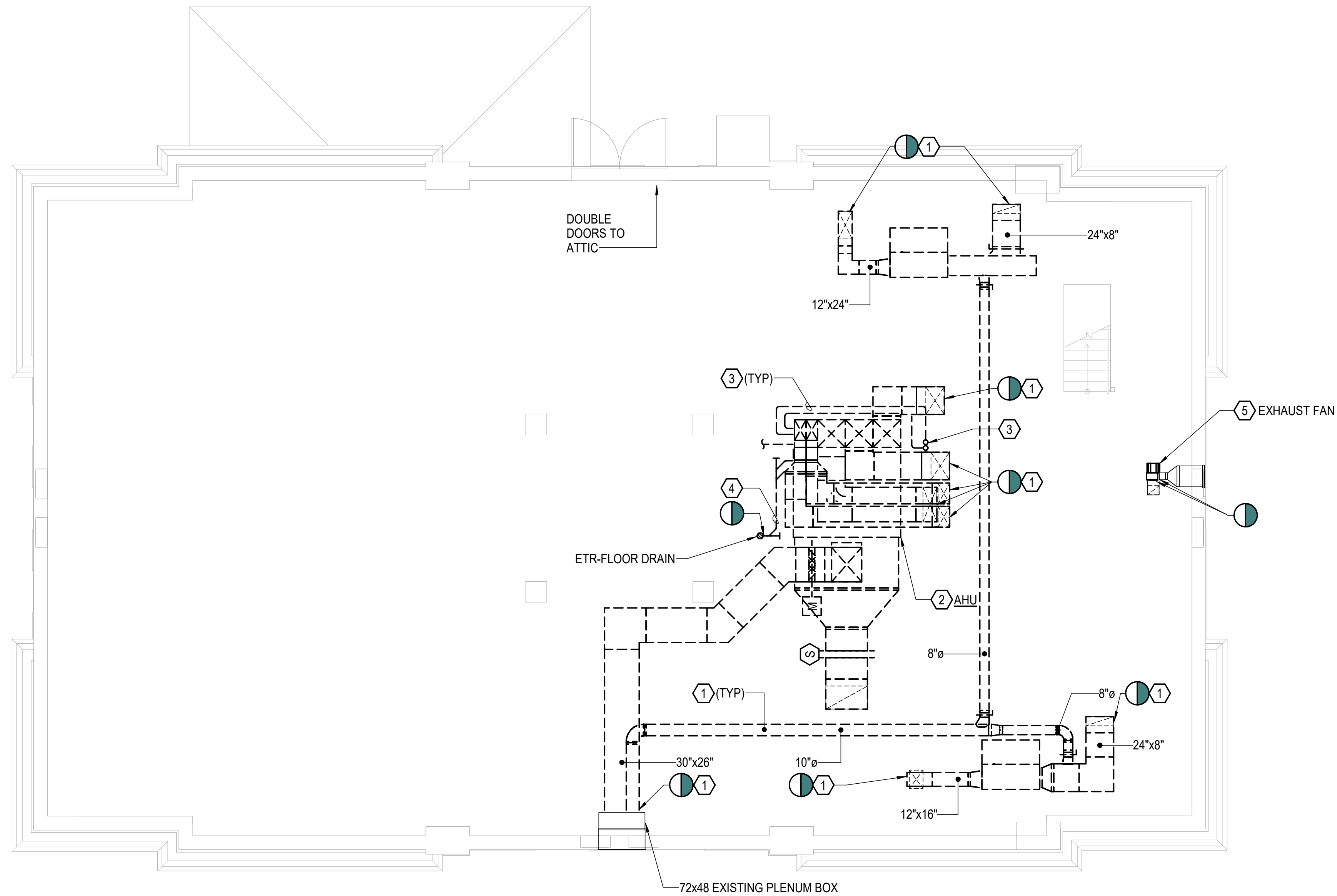


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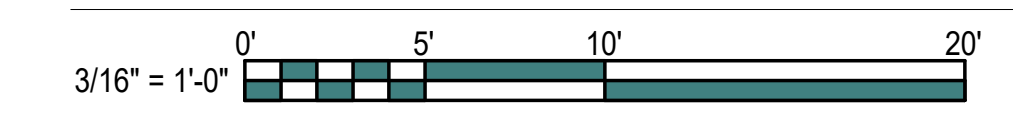


NOTES THIS SHEET

- ① REMOVE DUCTWORK, INSULATION, HANGERS AND SUPPORTS COMPLETE OR TO LIMITS INDICATED.
- ② REMOVE AIR HANDLING UNIT, AND SUPPORTS COMPLETE.
- ③ REMOVE HOT WATER SUPPLY/RETURN PIPING, HANGERS AND SUPPORTS COMPLETE OR TO LIMITS INDICATED.
- ④ REMOVE CONDENSATE DRAIN PIPING, HANGERS AND SUPPORTS COMPLETE.
- ⑤ EXHAUST FAN LOCATION. PREPARE FOR INSTALLATION OF NEW EXHAUST FAN.

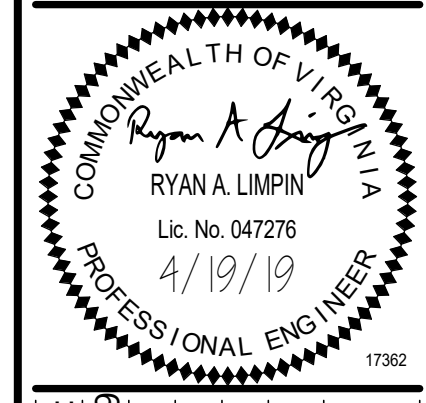
ATTIC DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

GRAPHIC SCALE:



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ATTIC DEMOLITION PLAN



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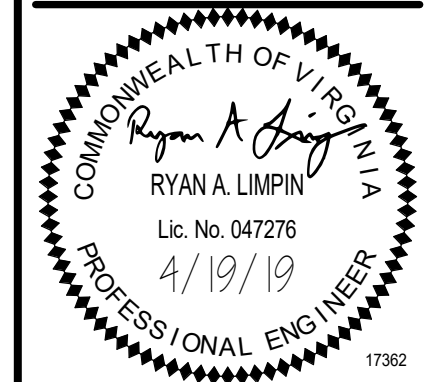
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 EXTERIOR RENOVATION & HVAC REPLACEMENT
 ACCOMACK, VA
 FIRST FLOOR NEW WORK
 DUCTWORK PLAN



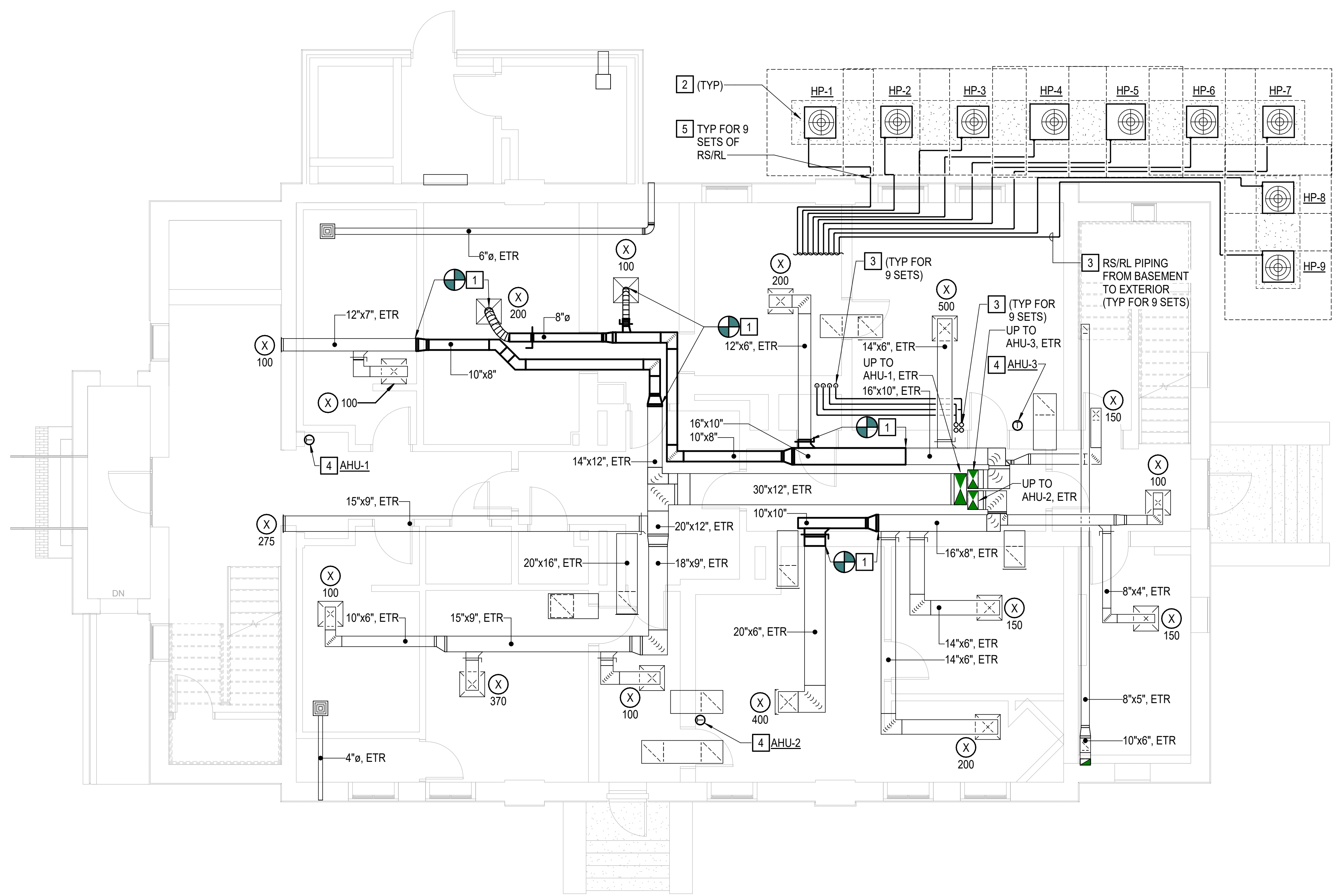
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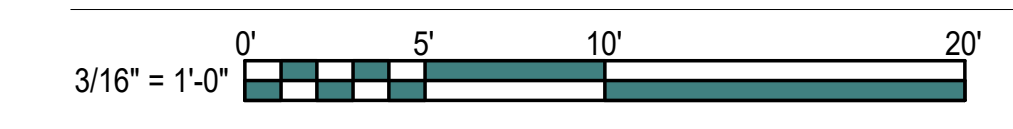
NOTES THIS SHEET

- 1 PROVIDE DUCTWORK, INSULATION, HANGERS AND SUPPORTS COMPLETE OR TO LIMITS INDICATED.
- 2 PROVIDE OUTDOOR HEAT PUMPS AND SECURE TO CONCRETE PAD. SEE ARCH DRAWINGS FOR CONCRETE PAD WORK.
- 3 PROVIDE RS/RL PIPING, INSULATION AND SUPPORTS FROM OUTDOOR HEAT PUMPS, THRU BASEMENT AND UP TO ATTIC SPACE. ROUTE THRU BUILDING SIMILAR TO REMOVED HWS/R PIPING TO ATTIC.
- 4 PROVIDE NEW WIFI ACCESSABLE, 7-DAY PROGRAMMABLE THERMOSTAT, CONTROL WIRING AND MOUNTS COMPLETE.
- 5 PROVIDE CSI PIPETITE STANDARD PIPE BOOT SEAL OR APPROVED EQUAL AT WALL PENETRATION. CONTRACTOR TO CORE DRILL EXTERIOR FOR PIPE PENETRATIONS.



FIRST FLOOR NEW WORK DUCTWORK PLAN
 SCALE: 3/16" = 1'-0"

GRAPHIC SCALE:

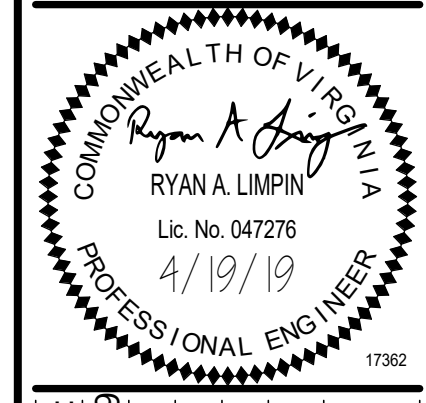


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 SECOND FLOOR NEW WORK
 DUCTWORK PLAN



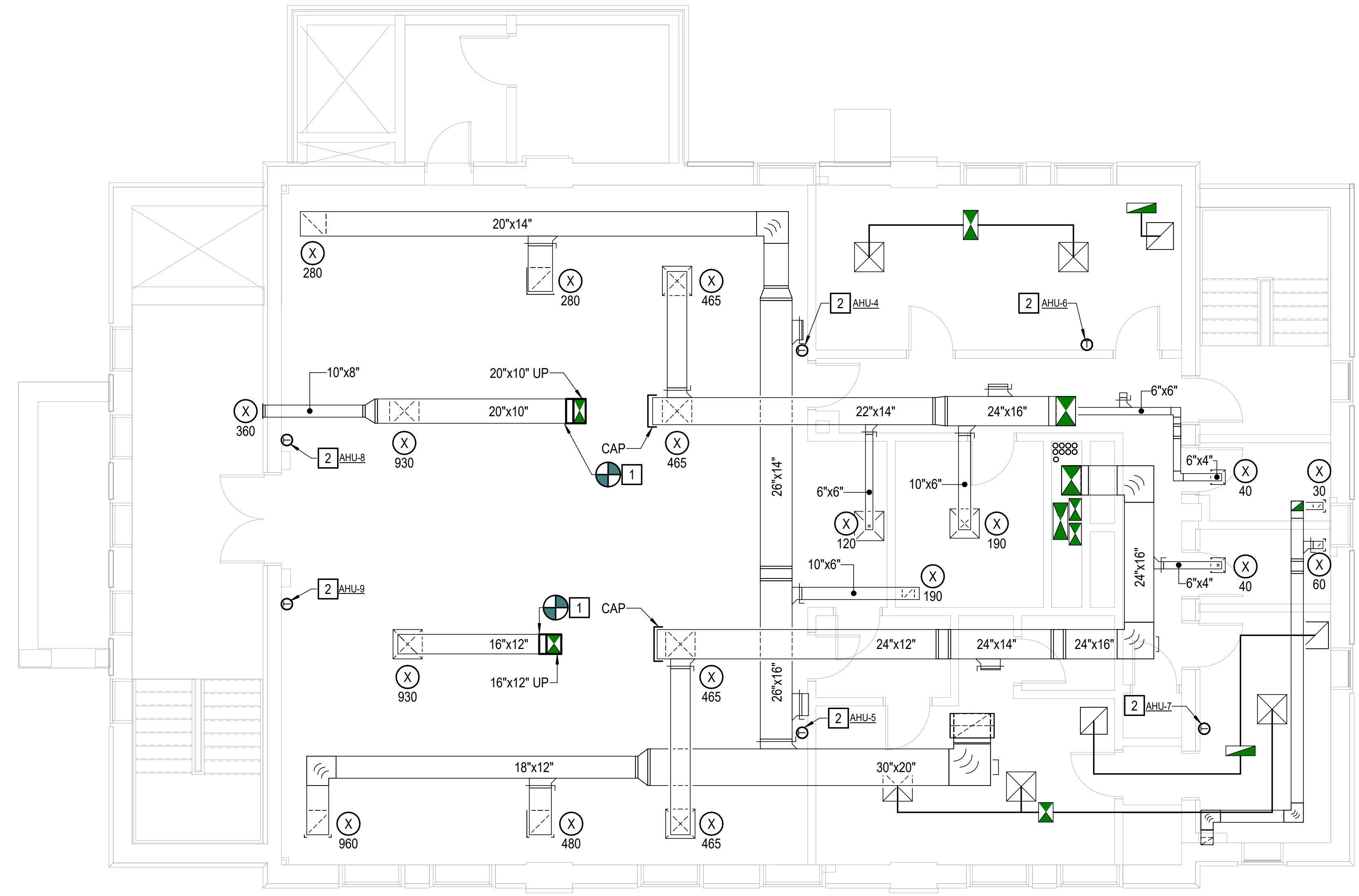
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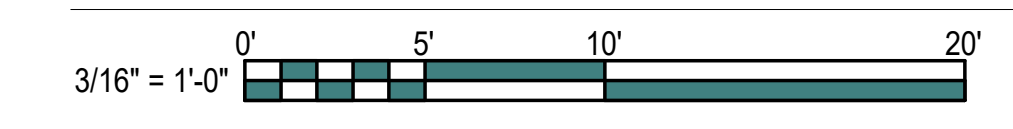
NOTES THIS SHEET

- 1 PROVIDE DUCTWORK, INSULATION, HANGERS AND SUPPORTS COMPLETE OR TO LIMITS INDICATED.
- 2 PROVIDE NEW WIFI ACCESSABLE, 7-DAY PROGRAMMABLE THERMOSTAT, CONTROL WIRING AND MOUNTS COMPLETE.



SECOND FLOOR NEW WORK DUCTWORK PLAN
 SCALE: 3/16" = 1'-0"

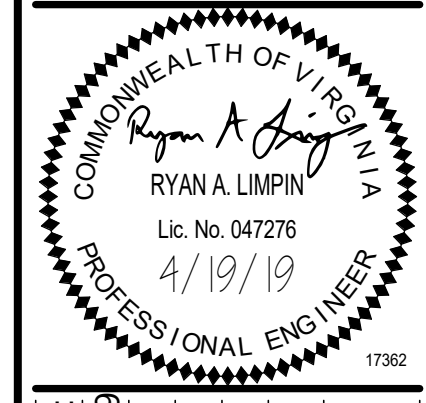
GRAPHIC SCALE:





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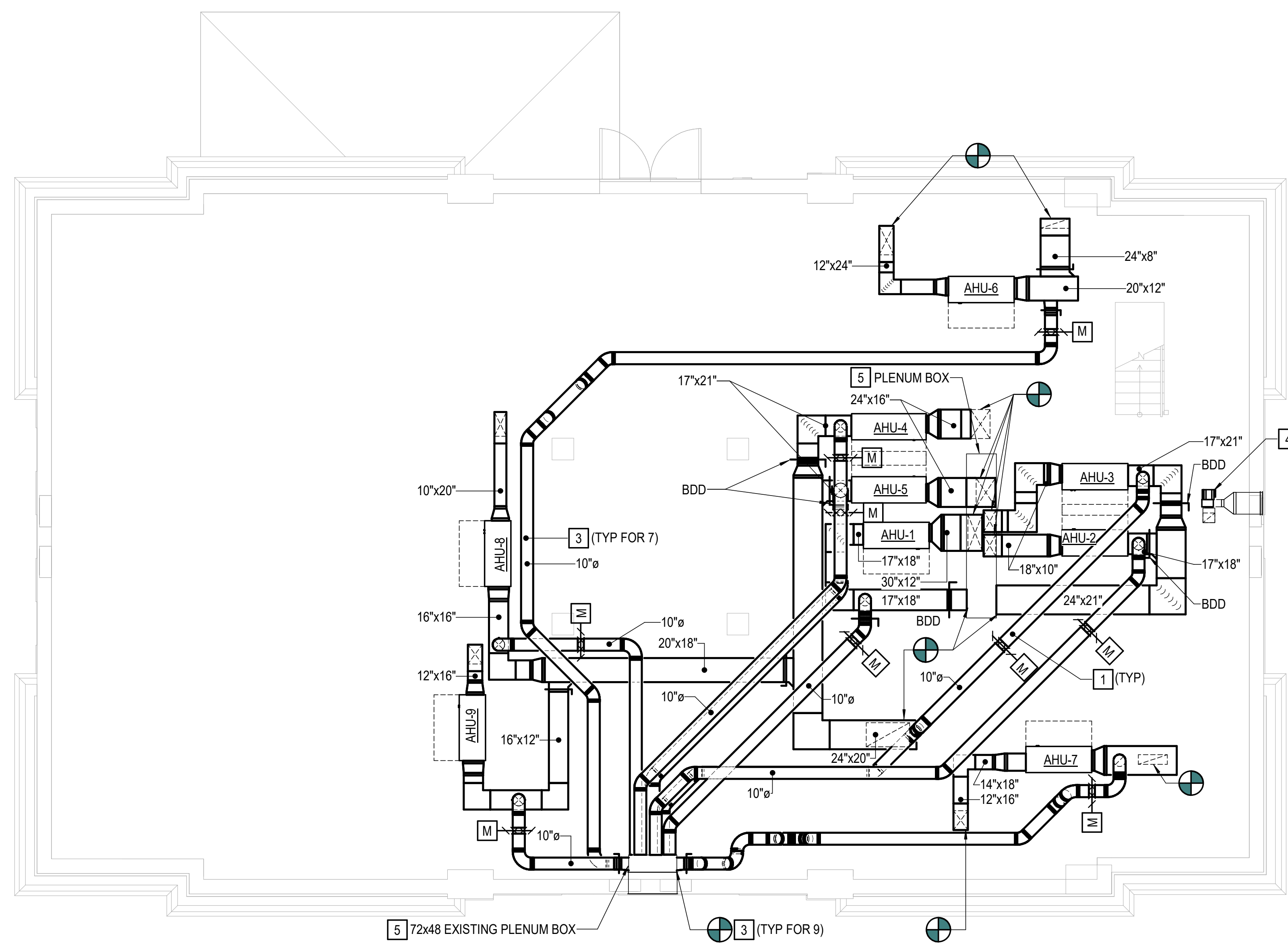
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ATTIC NEW WORK DUCTWORK PLAN



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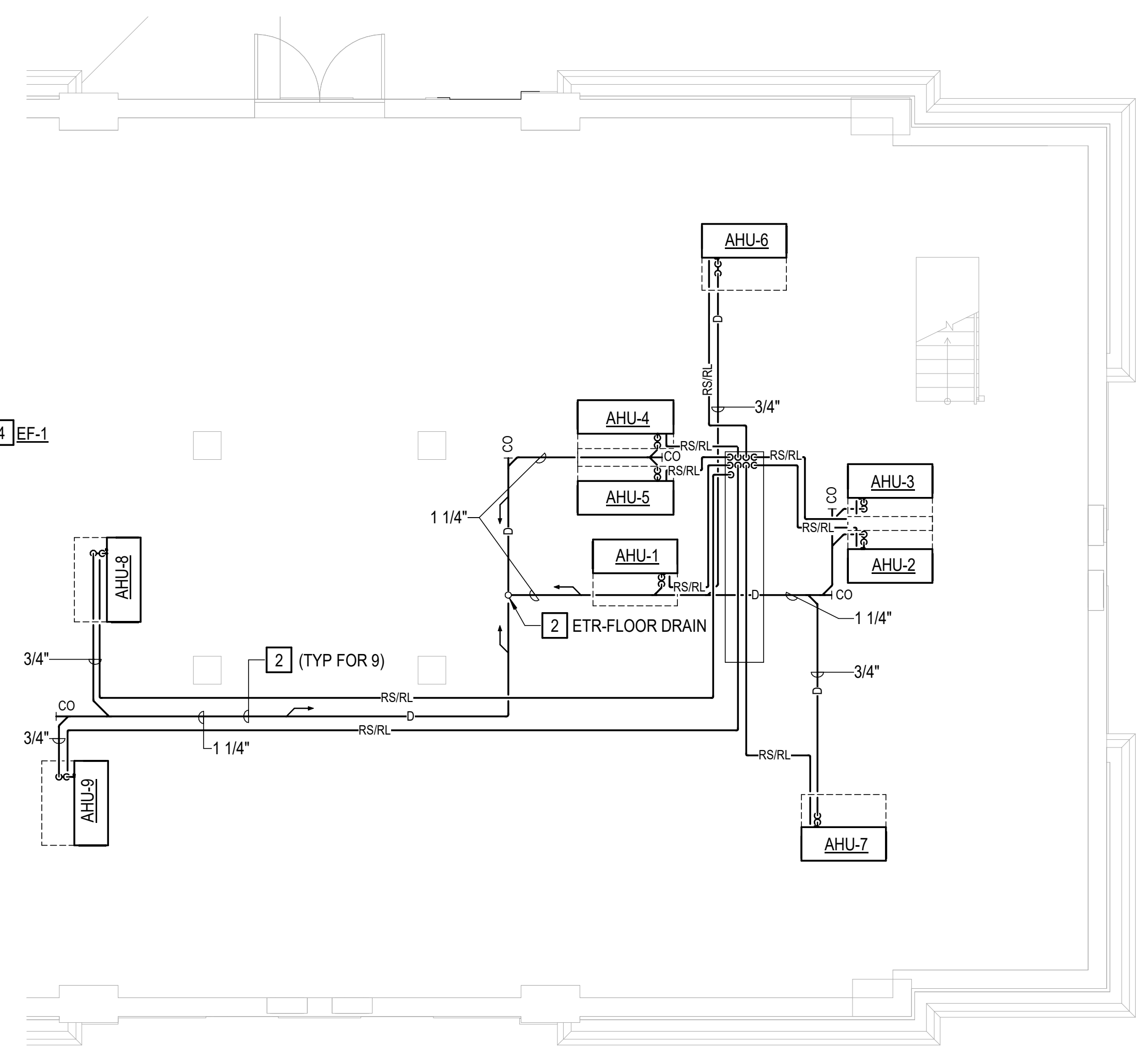
M103



ATTIC NEW WORK DUCTWORK PLAN
 SCALE: 3/16" = 1'-0"

NOTES THIS SHEET

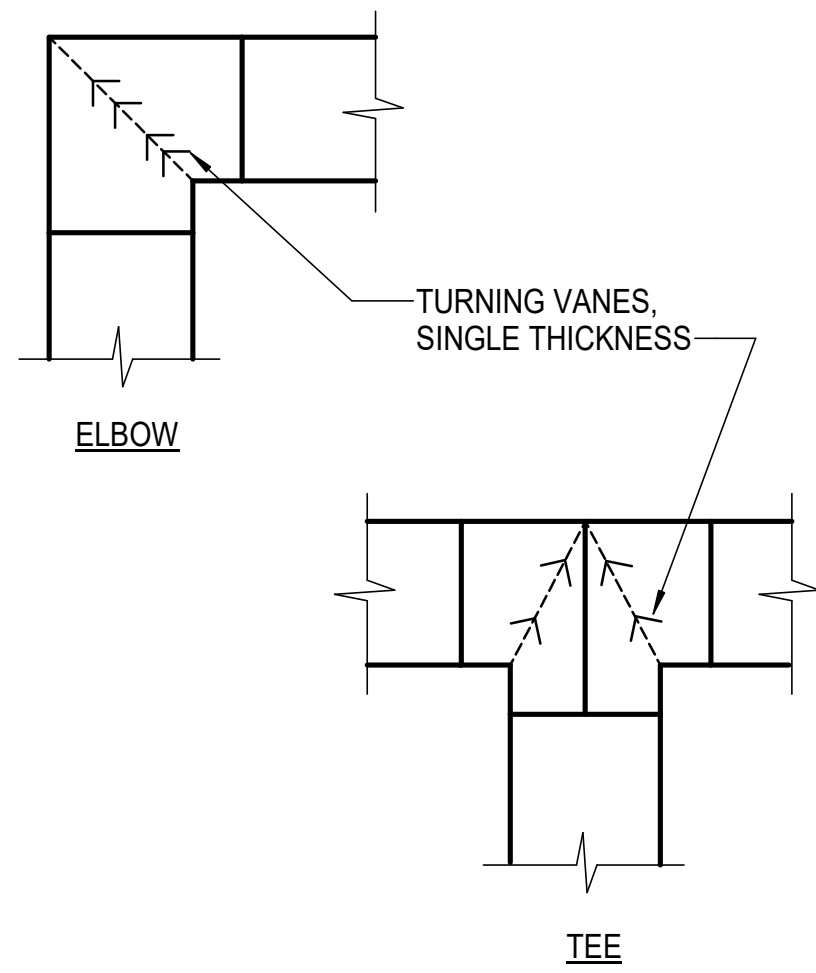
- 1 PROVIDE DUCTWORK, INSULATION, HANGERS AND SUPPORTS COMPLETE.
- 2 SLOPE ALL 1" AHU CONDENSATE TO EXISTING FLOOR DRAIN. PROVIDE CONDENSATE TRAP, PIPING, HANGERS AND SUPPORTS COMPLETE.
- 3 PROVIDE OUTSIDE AIR DUCTWORK. INSULATION, HANGERS AND SUPPORTS COMPLETE. CONNECT TO EXISTING PLENUM BOX ON OUTSIDE AIR LOUVER. PATCH AND INSULATE PLENUM BOX AS NECESSARY.
- 4 PROVIDE EXHAUST FAN, DUCTWORK, FLEXIBLE CONNECTIONS, TRANSITIONS AND SUPPORTS COMPLETE.
- 5 MODIFY EXISTING PLENUM BOX TO ACCOMODATE NEW WORK. PROVIDE DUCTWORK AND INSULATION AS NECESSARY.



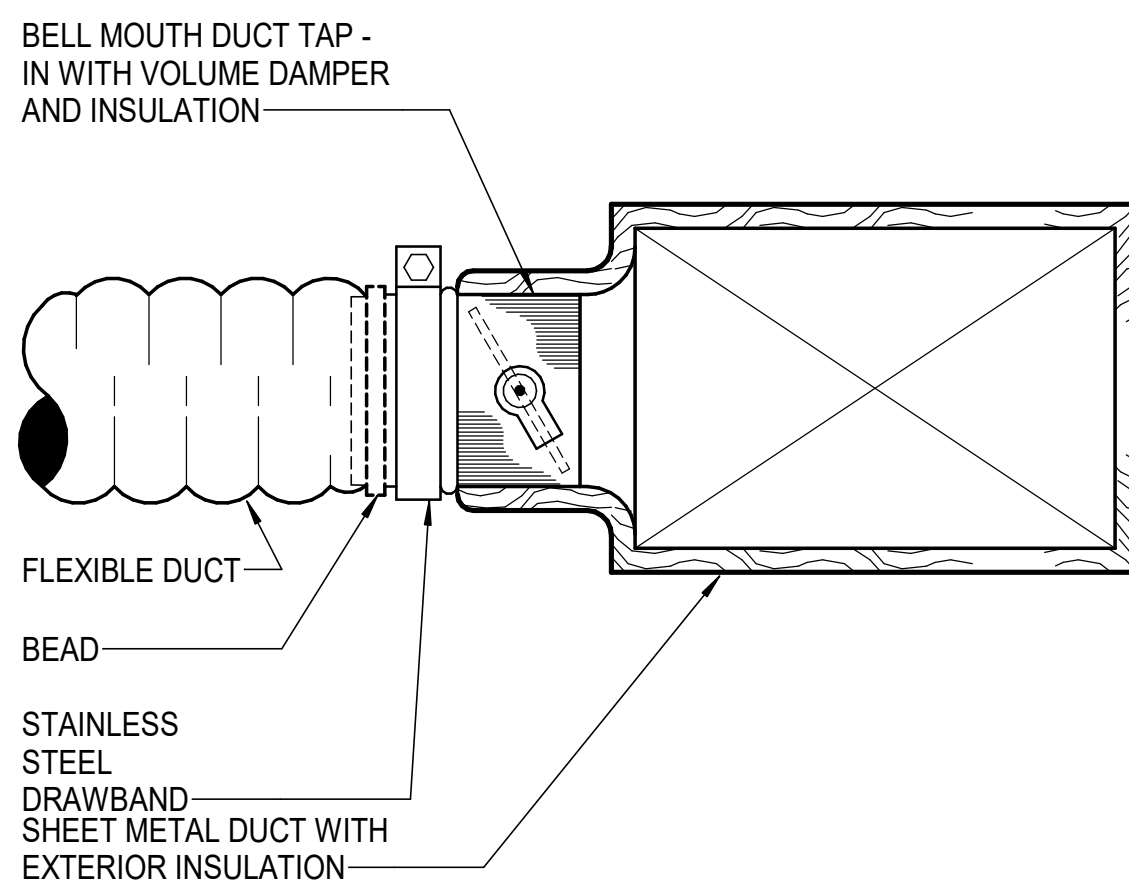
ATTIC NEW WORK PIPING PLAN
 SCALE: 3/16" = 1'-0"

GRAPHIC SCALE:

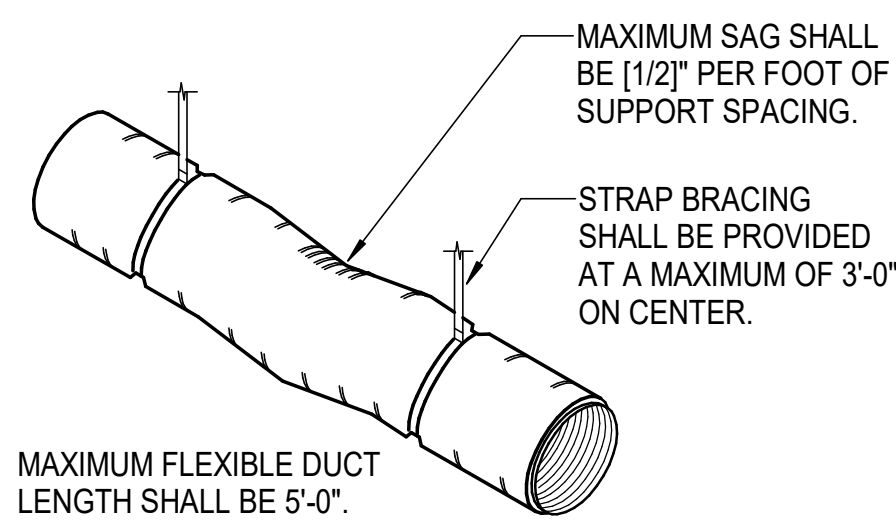




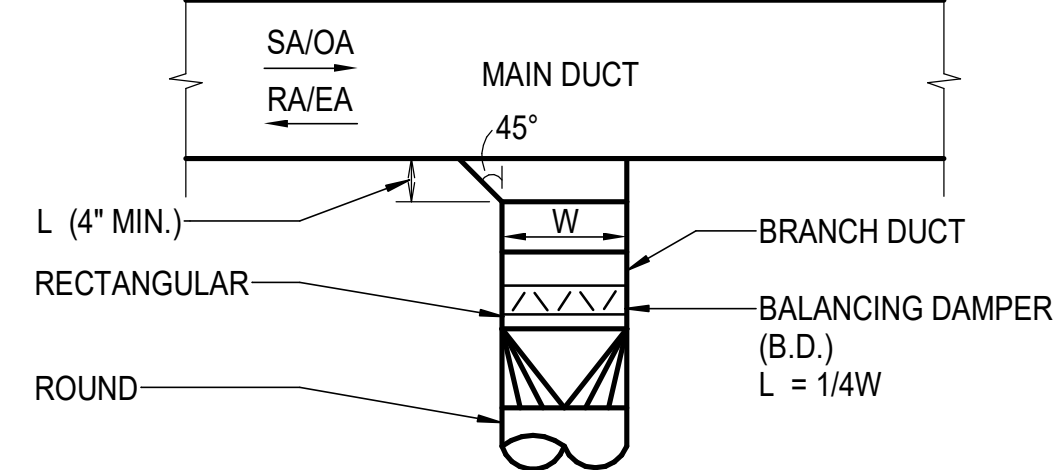
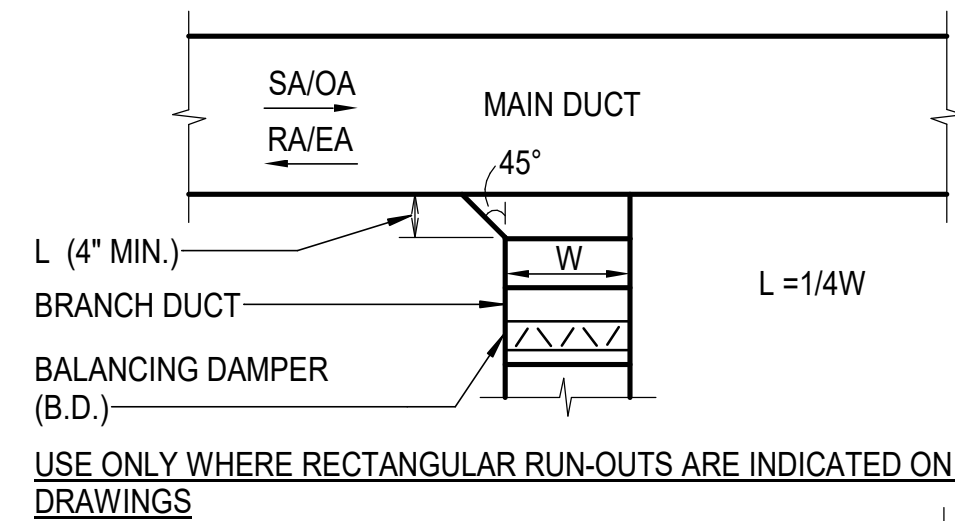
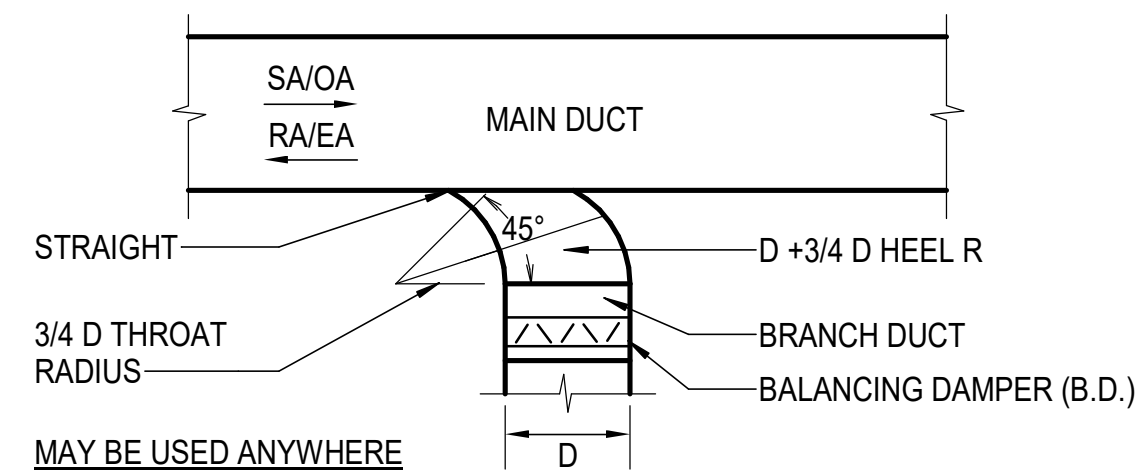
DUCTWORK DETAIL
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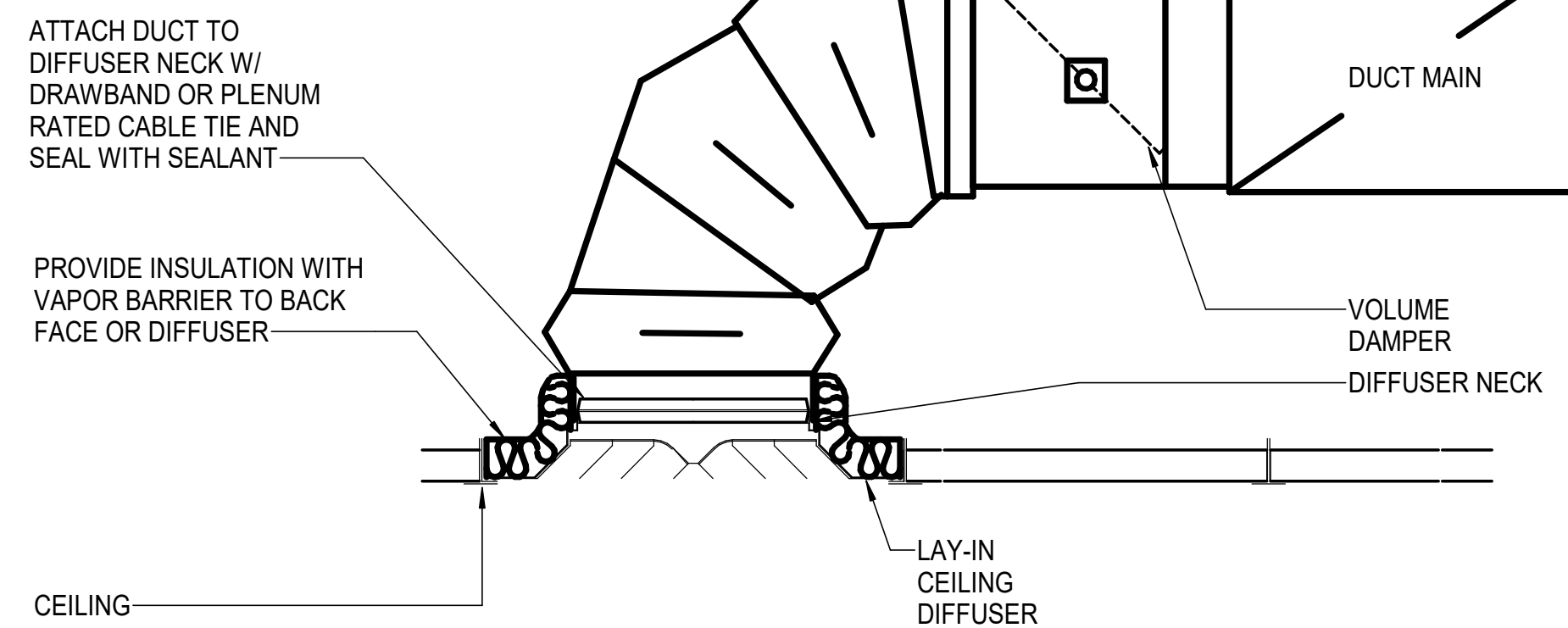
FLEXIBLE DUCT INSTALLATION DETAIL
NO SCALE



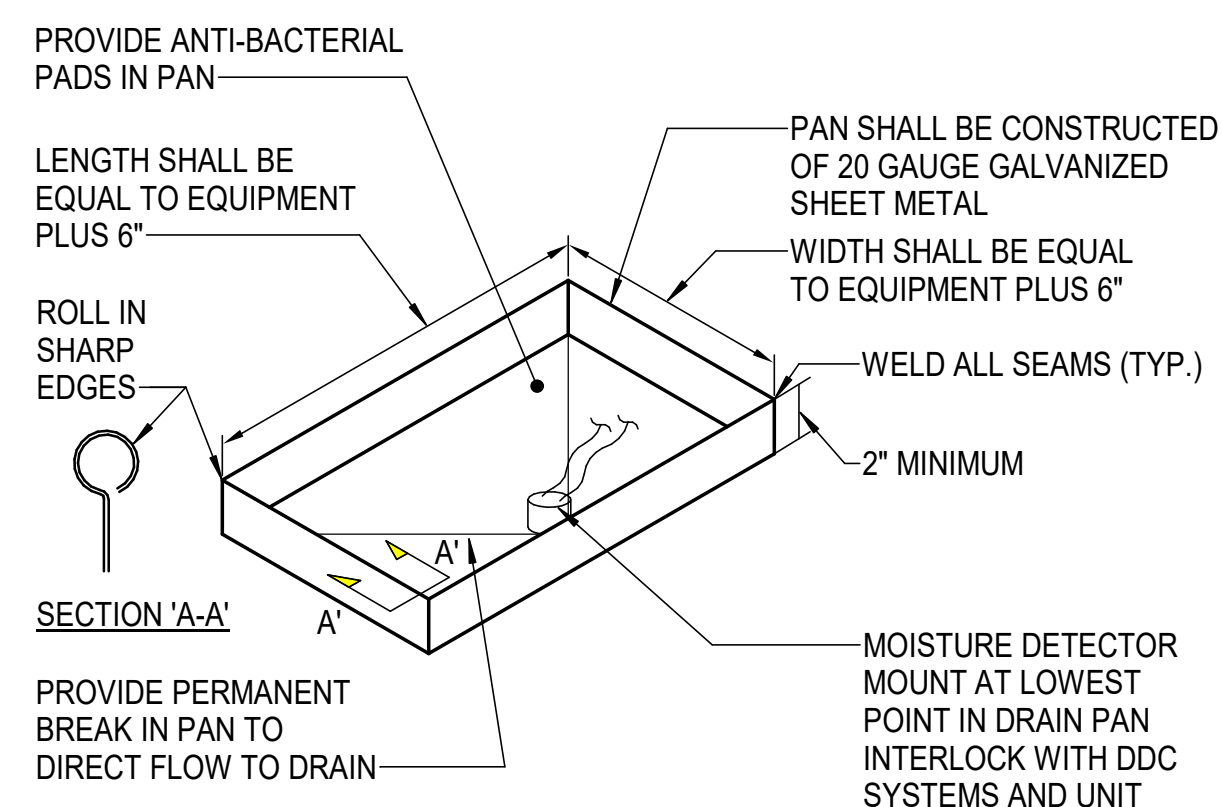
INSULATED FLEXIBLE DUCTWORK DETAIL
NO SCALE



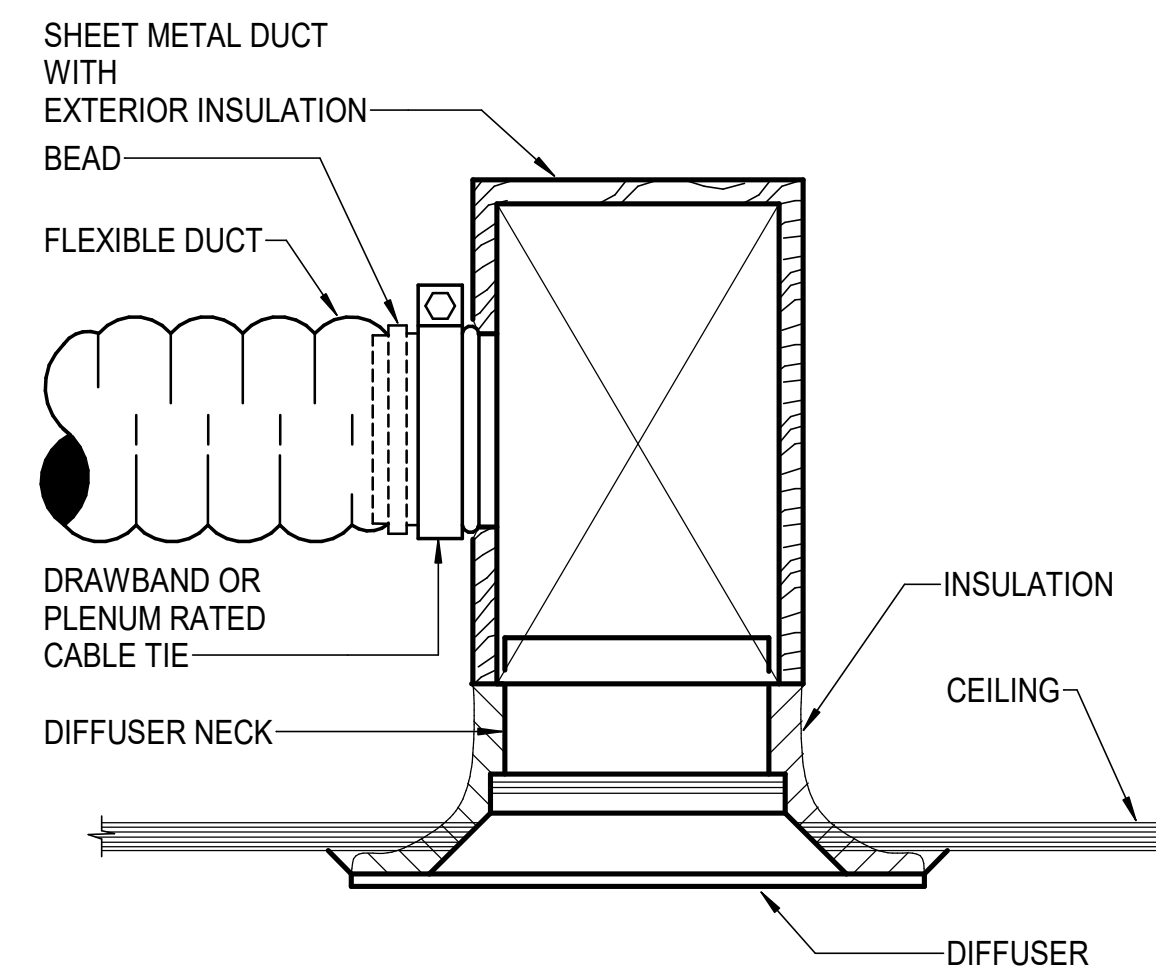
BRANCH CONNECTION DETAILS
NO SCALE



LAY-IN SUPPLY DIFFUSER DETAIL
NO SCALE

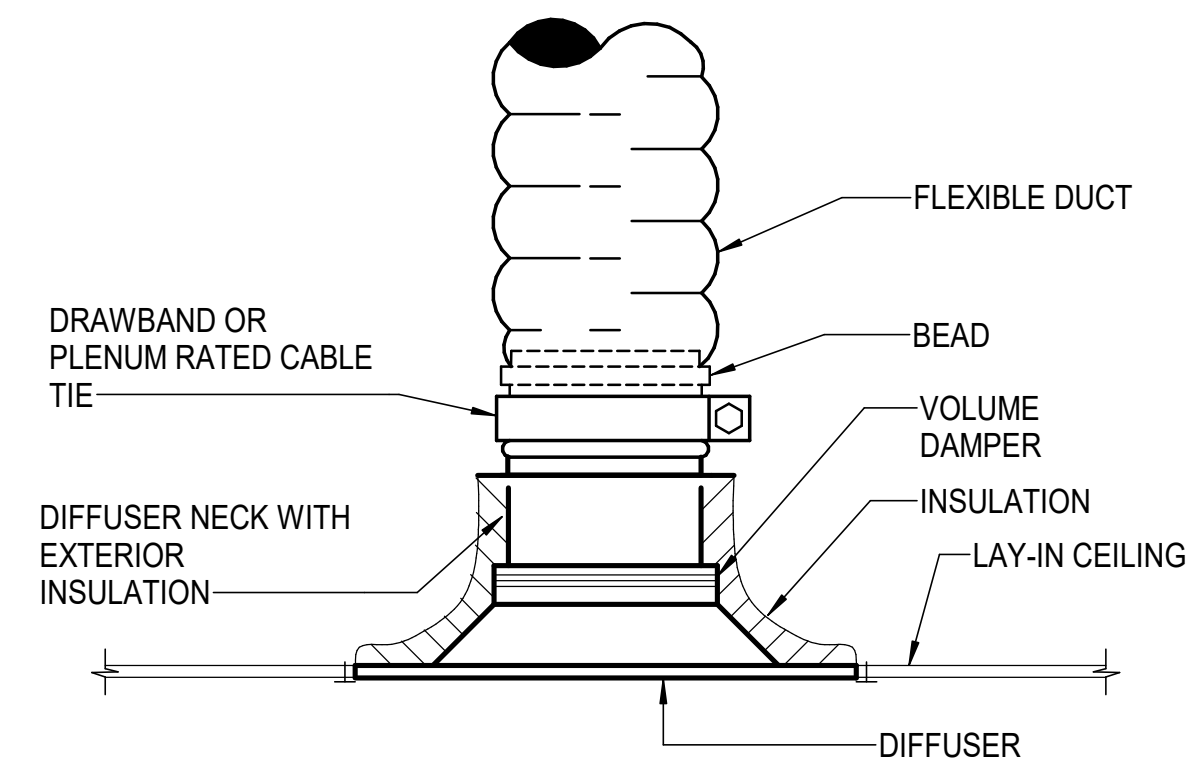


AUXILIARY DRAIN PAN DETAIL
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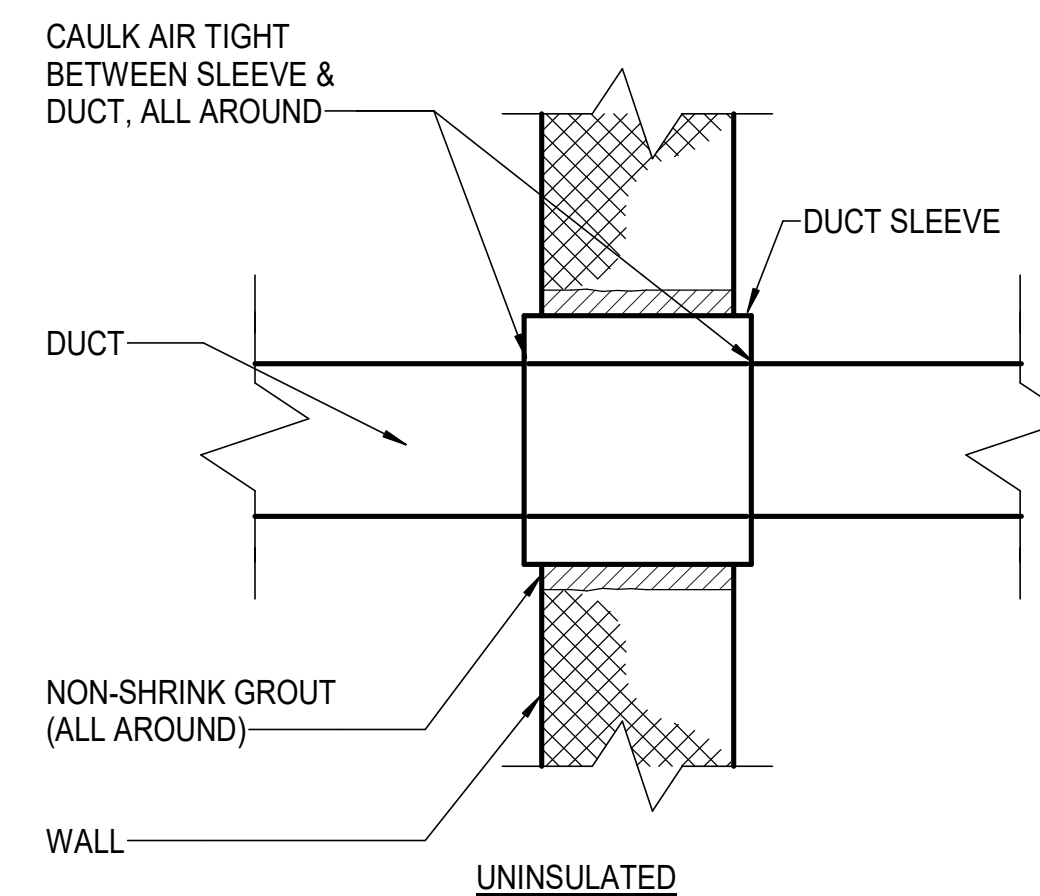


INSTALL PER THIS DETAIL WHERE SPACE ABOVE CEILING IS LIMITED
NO SCALE

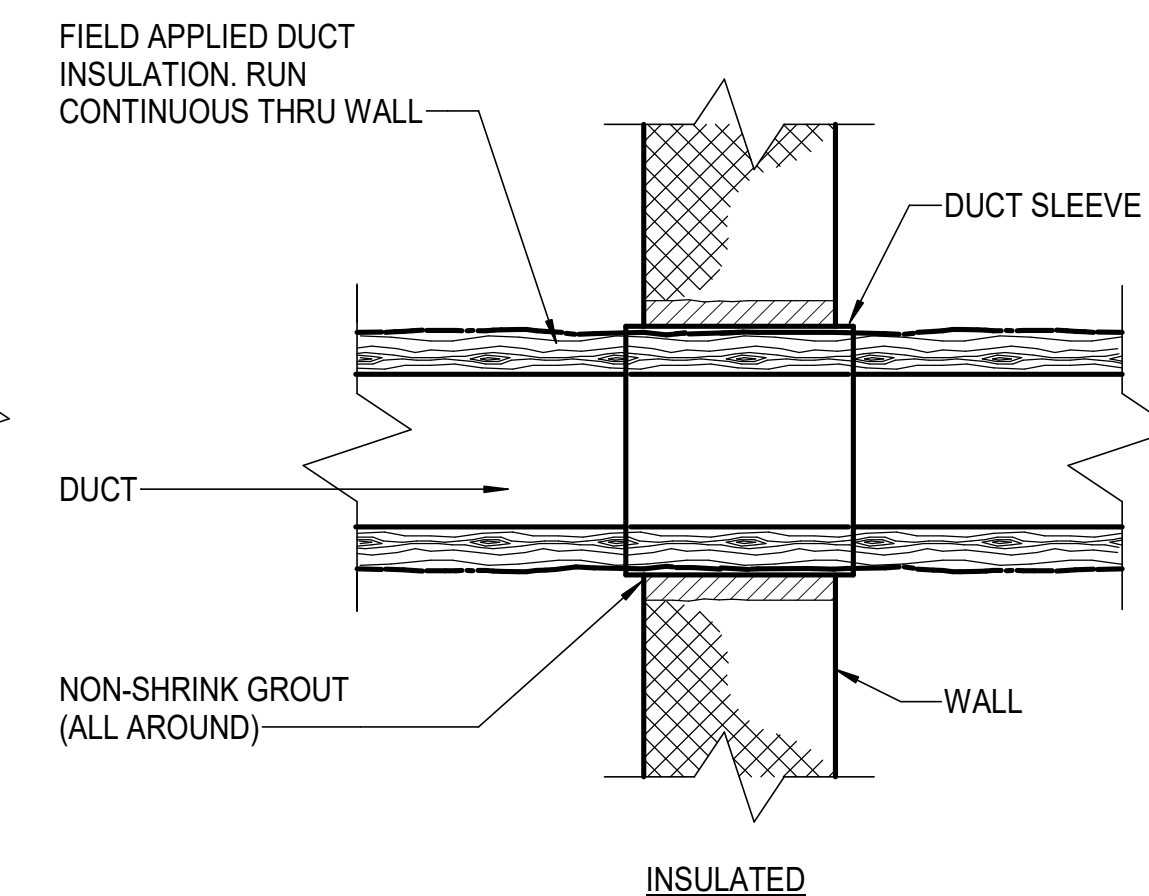
CEILING DIFFUSER INSTALLATION DETAIL
NO SCALE



TYPICAL INSTALLATION DETAIL
NO SCALE



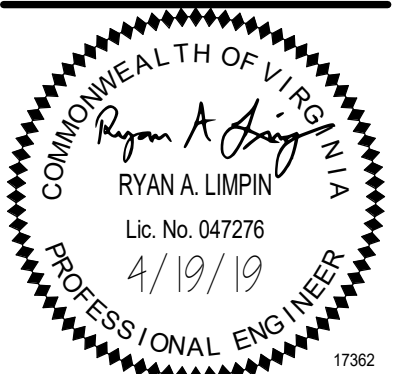
DUCT PENETRATION DETAILS
NO SCALE



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EXTERIOR RENOVATION & HVAC REPLACEMENT
ACCOMACK, VA

DETAILS



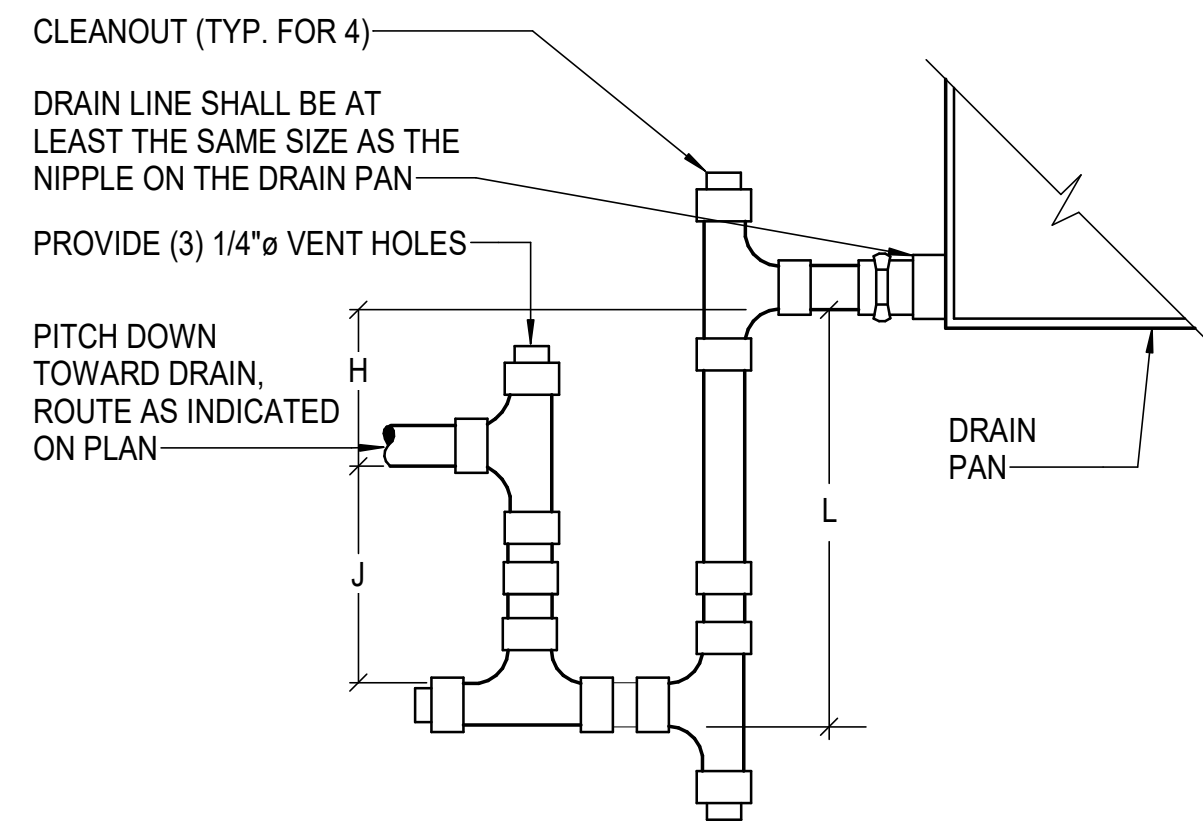
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DRAIN PAN TRAPPING FOR SECTION UNDER NEGATIVE PRESSURE:

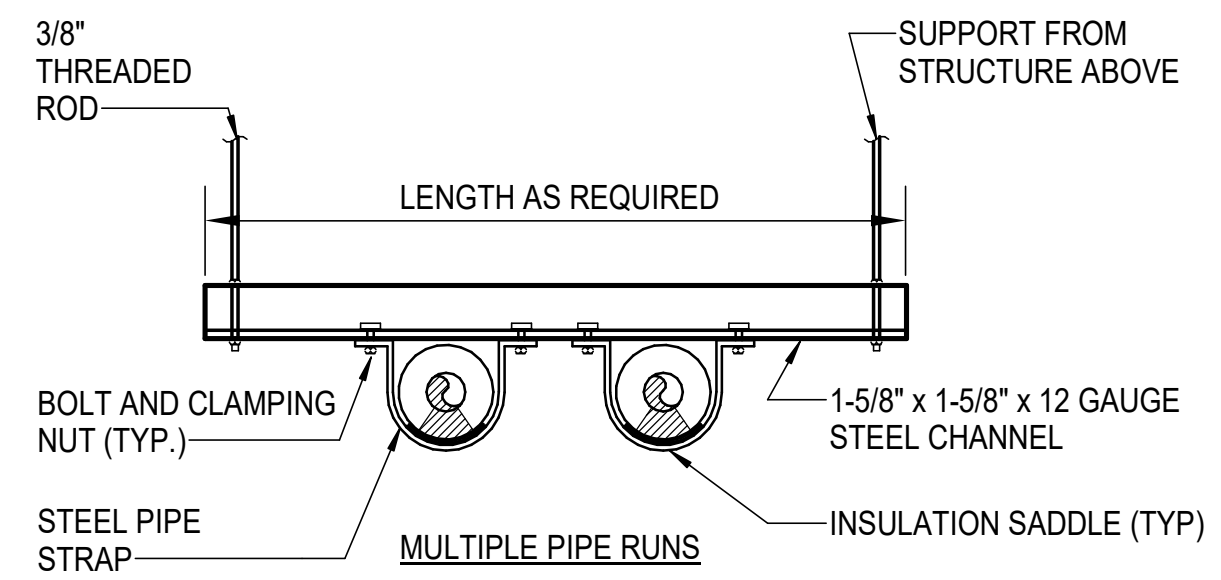
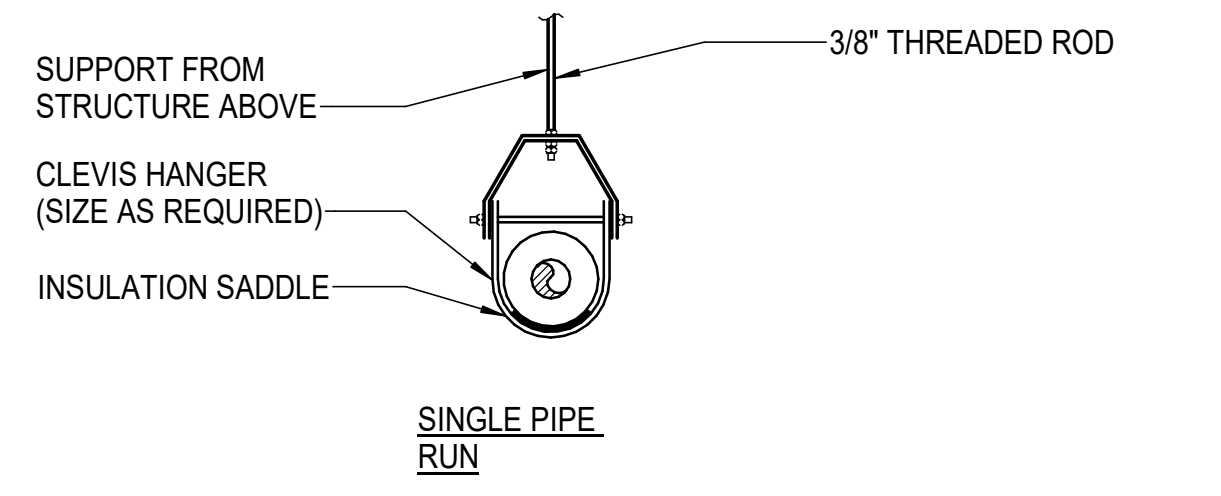
$L = H + J + \text{PIPE DIAMETER WHERE:}$
 $H = 1 \text{ INCH FOR EACH INCH OF NEGATIVE PRESSURE PLUS 1 INCH}$
 $J = 1/2 H$

DRAIN PAN TRAPPING FOR SECTION UNDER POSITIVE PRESSURE:

$L = H + J + \text{PIPE DIAMETER WHERE:}$
 $H = 1/2 \text{ INCH (MINIMUM)}$
 $J = 1/2 \text{ INCH PLUS THE UNIT POSITIVE STATIC PRESSURE AT COIL DISCHARGE (LOADED FILTERS)}$

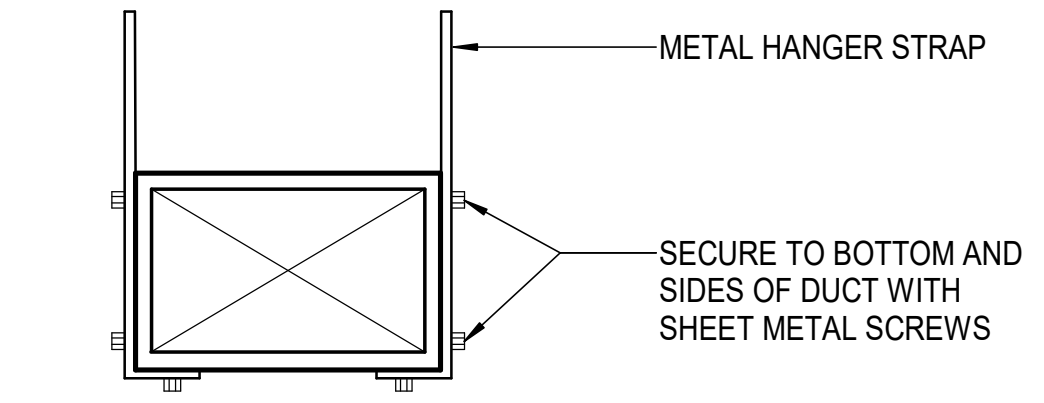
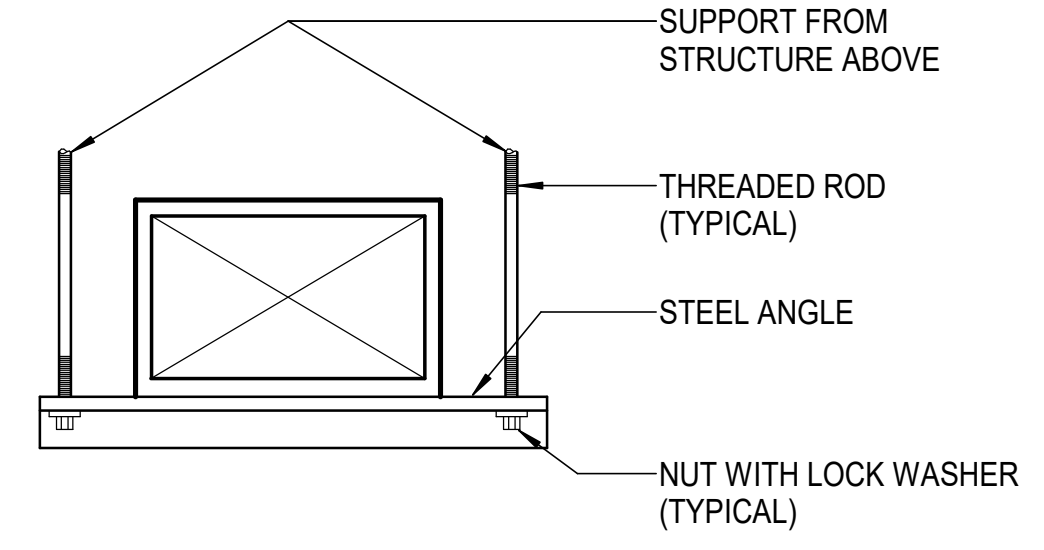
CONDENSATE DRAIN TRAP

NO SCALE



PIPE SUPPORT DETAILS

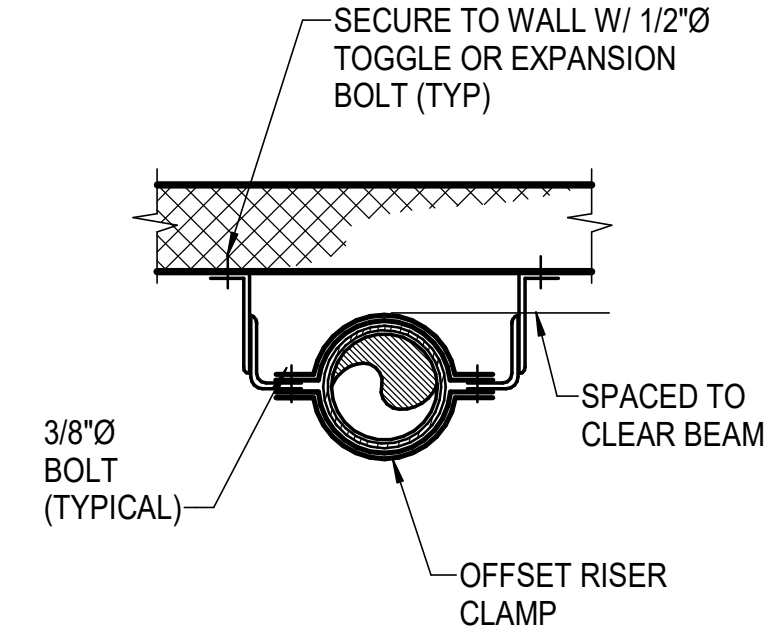
NO SCALE



NOTE: FOR ANGLE SIZE AND HANGER STRAP GAUGE, SEE SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS.

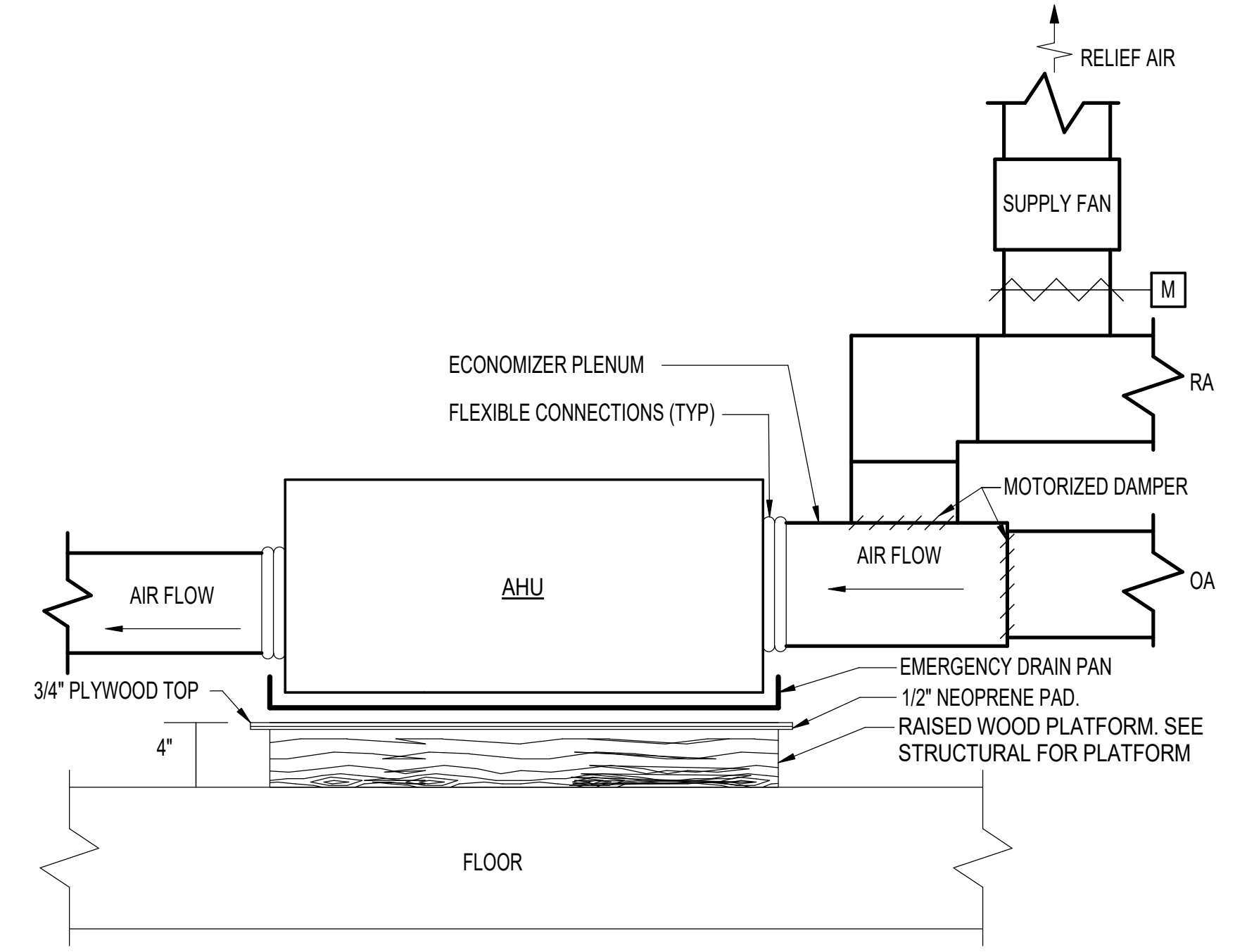
DUCT SUPPORT DETAIL

NO SCALE



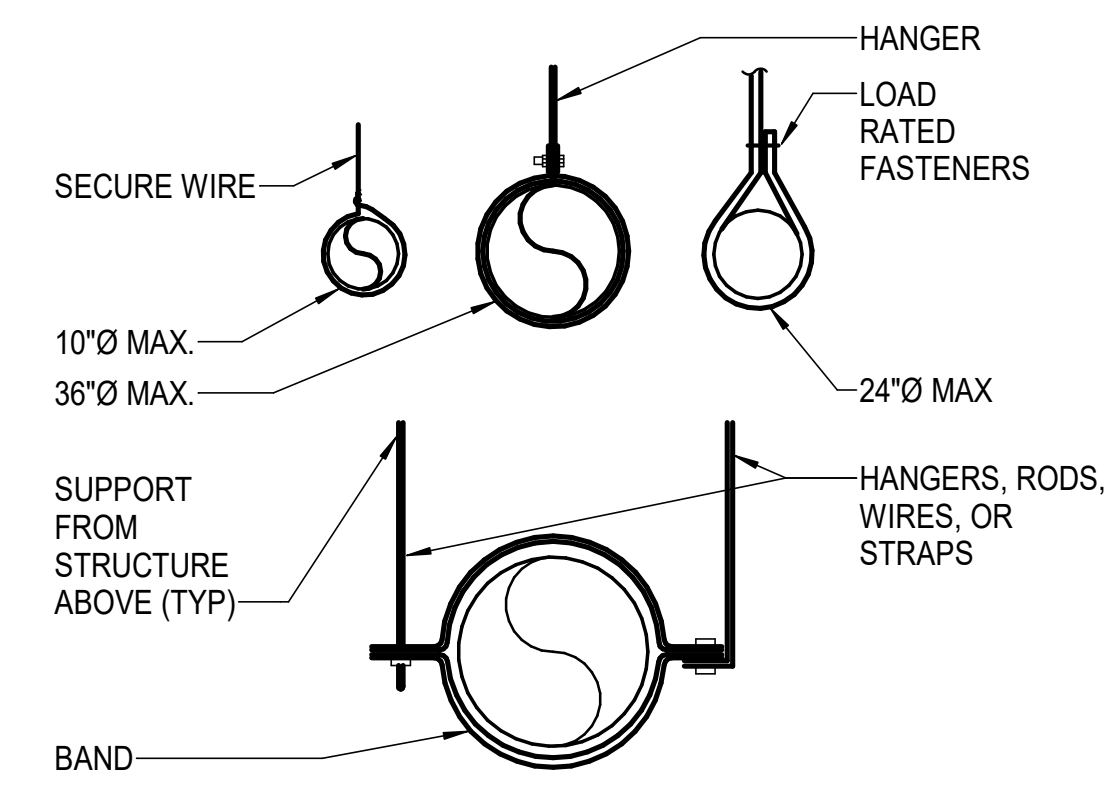
RISER SUPPORT DETAIL

NO SCALE



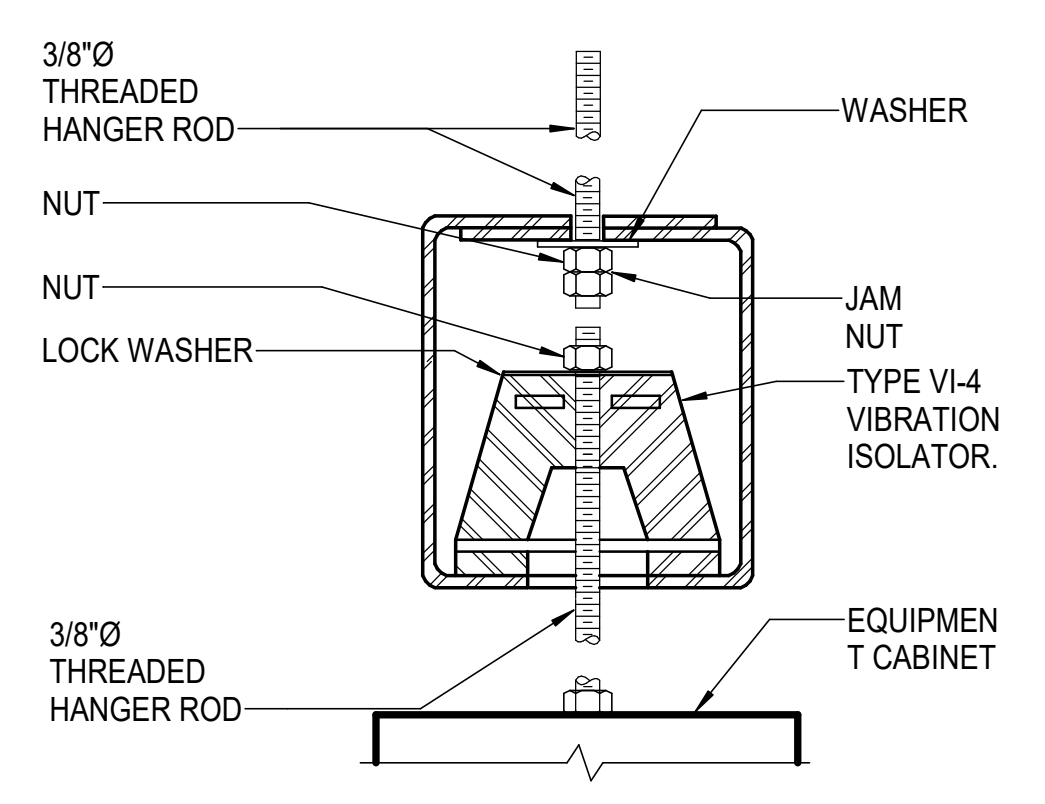
AIR HANDLER UNIT WITH ECONOMIZER PLENUM DETAIL (SHELL)

NO SCALE



ROUND DUCT SUPPORT DETAIL

NO SCALE



VIBRATION ISOLATION DETAIL

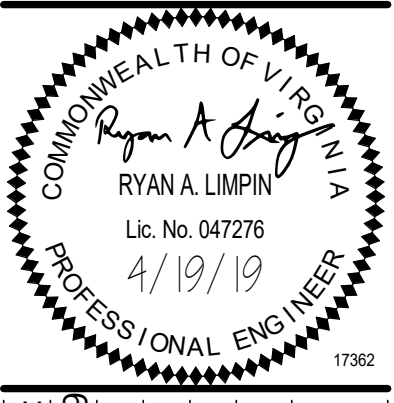
SCALE: 12" = 1'-0"



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SPLIT SYSTEM HEAT PUMP SCHEDULE - AIR TO AIR

TAG	FAN DATA				COOLING DATA			HEATING DATA		SUPPLEMENTAL ELECTRIC HEATER						INDOOR MODEL NUMBER	TAG					OUTDOOR MODEL NUMBER	REMARKS
	TOTAL C.F.M.	O.A. CFM	E.S.P. IN. W.G.	MOTOR H.P.	TOTAL M.B.H.	SENS. M.B.H.	MIN. EFFICIENCY	TOTAL M.B.H.	MIN EFFICIENCY	SIZE KW	STAGES	M.C.A.	M.O.C.P.	VOLTS	PHASE			M.C.A.	M.O.C.P.	VOLTS	PHASE		
AHU-1	1045	120	0.7	0.5	34.2	27.7	17.5 SEER	20.2	9.0 HSPF	7.5	1	37.5	40	208	1	BVA	HP-1	24.2	40	208	1	BOVA	SEE NOTES
AHU-2	1000	75	0.7	0.5	30.1	27.1	17.5 SEER	13.4	9.0 HSPF	7.5	1	37.5	40	208	1	BVA	HP-2	24.2	40	208	1	BOVA	SEE NOTES
AHU-3	1150	160	0.7	0.75	42.0	33.6	18.5 SEER	20.8	9.5 HSPF	7.5	1	41.1	45	208	1	BVA	HP-3	36.5	60	208	1	BOVA	SEE NOTES
AHU-4	1280	175	0.7	0.75	42.0	33.6	18.5 SEER	20.8	9.5 HSPF	7.5	1	41.1	45	208	1	BVA	HP-4	36.5	60	208	1	BOVA	SEE NOTES
AHU-5	970	140	0.7	0.5	30.1	27.1	17.5 SEER	13.4	9.0 HSPF	7.5	1	37.5	40	208	1	BVA	HP-5	24.2	40	208	1	BOVA	SEE NOTES
AHU-6	1080	90	0.7	0.5	28.5	22.9	17.5 SEER	12.6	9.0 HSPF	7.5	1	37.5	40	208	1	BVA	HP-6	24.2	40	208	1	BOVA	SEE NOTES
AHU-7	1080	75	0.7	0.5	27.5	25.1	17.5 SEER	13.6	9.0 HSPF	7.5	1	37.5	40	208	1	BVA	HP-7	24.2	40	208	1	BOVA	SEE NOTES
AHU-8	1290	175	0.7	0.75	42.0	33.6	18.5 SEER	20.8	9.5 HSPF	7.5	1	41.1	45	208	1	BVA	HP-8	36.5	60	208	1	BOVA	SEE NOTES
AHU-9	930	175	0.7	0.5	30.1	27.1	17.5 SEER	13.4	9.0 HSPF	7.5	1	37.5	40	208	1	BVA	HP-9	24.2	40	208	1	BOVA	SEE NOTES

NOTES:

1. PROVIDE AHU/HP WITH BOSCH INVERTER DUCTED SPLIT SYSTEM HEAT PUMP.
2. COOLING CAPACITY BASED ON E.A.T. = 80 F DB / 67 F WB AND 95 F AMBIENT AIR TEMPERATURE.
3. HEATING CAPACITY BASED ON E.A.T. = 70 F DB AND 22 F AMBIENT AIR TEMPERATURE.
4. SUPPLEMENTAL ELECTRIC HEATER F.L.A. INCLUDED. ONE DISCONNECT SWITCH FOR EACH INDOOR UNIT.
5. EXTERNAL STATIC PRESSURE INCLUDES SUPPLY, RETURN AND OUTSIDE AIR DISTRIBUTION SYSTEMS.
6. LEAVING AIR TEMPERATURE IS TO BE PROVIDED AT THE UNIT DISCHARGE, TOTAL AND SENSIBLE CAPACITIES ARE "NET" VALUES TO BE PROVIDED DOWNSTREAM OF THE SUPPLY AIR FAN.

FAN SCHEDULE

TAG	LOCATION	FAN TYPE	C.F.M.	E.S.P. (IN. WG.)	MAX SONES	DRIVE	ELECTRICAL DATA			REMARKS
							H.P.	VOLTS	PHASE	
EF-1	ATTIC	INLINE	270	0.50	8	DIRECT	1/8	120	1	SEE NOTES BELOW

NOTES:

1. SELECTIONS BASED ON GREENCHECK.
2. PROVIDE DIRECT DRIVE FANS WITH ELECTRONIC SPEED CONTROLLER.
3. PROVIDE INLINE FANS WITH CHATTERPROOF BDD, INTEGRAL ELECTRIC DISCONNECT, DUCT FLANGES, AND 4 POINT VIBRATION HANGER SYSTEM.

AHU/HP SEQUENCE OF CONTROLS

AIR HANDLING UNIT CONTROL (AHU/HP-1 THRU AHU/HP-9):

THE UNIT SHALL BE CONTROLLED BY A 7-DAY PROGRAMMABLE THERMOSTAT CONTROLLER WHICH WILL INITIATE "OCCUPIED" AND "UNOCCUPIED" MODE. PROVIDE HUMIDISTAT CAPABLE OF DEHUMIDIFICATION OPERATION.

COOLING OCCUPIED: WHEN THE UNIT IS INDEXED TO COOLING THE SUPPLY AIR FAN SHALL ENERGIZE AND RUN CONTINUOUSLY FOR THE DURATION OF OCCUPIED HOURS. THE SPACE THERMOSTAT SHALL STAGE COOLING COMPRESSORS TO MAINTAIN "OCCUPIED" SPACE TEMPERATURE SETPOINT (75°F ADJUSTABLE). THE MOTORIZED DAMPER FOR THE OUTSIDE AIR SHALL OPEN TO MINIMUM OA POSITION.

COOLING UNOCCUPIED: THE THERMOSTAT SHALL CYCLE SUPPLY AIR FAN AND STAGE THE COMPRESSORS TO MAINTAIN SPACE SETBACK SETPOINT (80°F ADJUSTABLE). THE MOTORIZED OUTSIDE AIR DAMPER SHALL FULLY CLOSE.

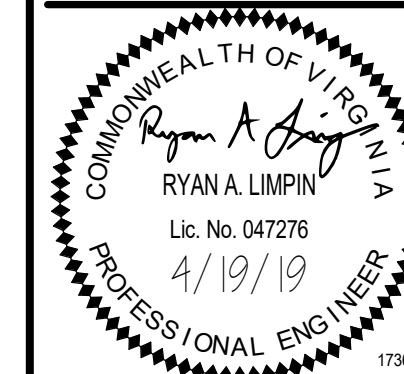
HEATING OCCUPIED: WHEN THE UNIT IS INDEXED TO HEATING THE SUPPLY AIR FAN SHALL ENERGIZE AND RUN CONTINUOUSLY FOR DURATION OF OCCUPIED HOURS. THERMOSTAT AND STAGE THE COMPRESSORS TO MAINTAIN SPACE TEMPERATURE SETPOINT (70°F ADJUSTABLE). SUPPLEMENTAL HEAT TO ENERGIZE IF IN FULL HEATING MODE AND SPACE TEMPERATURE CONTINUES TO FALL. THE MOTORIZED DAMPER FOR THE OUTSIDE AIR SHALL OPEN TO MINIMUM OA POSITION.

HEATING UNOCCUPIED: WHEN THE THERMOSTAT HAS BEEN INDEXED TO UNOCCUPIED, THE THERMOSTAT SHALL CYCLE THE SUPPLY AIR FAN AND STAGE COMPRESSORS TO MAINTAIN SPACE SETBACK SETPOINT (67°F ADJUSTABLE). THE MOTORIZED OUTSIDE AIR DAMPER SHALL FULLY CLOSE.

DEHUMIDIFICATION CONTROL: IF SPACE RELATIVE HUMIDITY RISES TO ABOVE 60% (ADJ.), ALL STAGES OF DX COOLING SHALL BE ENABLED AND THE SUPPLEMENTARY ELECTRIC HEATER SHALL BE STAGED ON/OFF AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT. ONCE THE RELATIVE HUMIDITY DROPS BELOW 50% (ADJ.), THE UNIT SHALL BE PLACED BACK IN NORMAL OPERATION.

ACCOMACK COUNTY CIRCUIT COURTHOUSE
 EXTERIOR RENOVATION & HVAC REPLACEMENT
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SCHEDULES



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GENERAL ELECTRICAL NOTES

GENERAL: UNLESS SPECIFICALLY INDICATED OTHERWISE, ALL WORK SHOWN ON ELECTRICAL DRAWINGS IS NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.

COORDINATION: COORDINATE AND COOPERATE WITH ALL TRADES ON THE PROJECT. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS INCLUDING ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE AND ADJUST ACCORDINGLY AS DIRECTED BY THE ENGINEER.

AS-BUILT DRAWINGS: SECURE AN EXTRA SET OF ELECTRICAL DRAWINGS TO BE KEPT ON SITE AND MARK, DAILY, THE DRAWINGS IN RED AS THE PROJECT PROGRESSES IN ORDER TO KEEP AN ACCURATE RECORD OF ALL DEVIATIONS BETWEEN THE WORK SHOWN ON THE DRAWINGS AND THE WORK WHICH IS ACTUALLY INSTALLED. THESE MARKED DRAWINGS SHALL REFLECT ANY AND ALL CHANGES AND REVISIONS TO THE ORIGINAL DESIGN WHICH EXISTS IN THE COMPLETED WORK. DELIVER THE MARKED DRAWINGS TO THE ENGINEER AT PROJECT CLOSE-OUT.

TESTS: TEST ALL WIRING FOR CONTINUITY AND GROUNDS BEFORE CONNECTING ANY FIXTURES OR DEVICES. PERFORM INSULATION RESISTANCE TESTS ON ALL WIRING #6 OR LARGER TO INSURE THAT ALL PORTIONS ARE FREE FROM SHORT-CIRCUITS AND GROUNDS.

INSPECTIONS: ARRANGE ALL NECESSARY INSPECTIONS. DELIVER ALL REQUIRED INSPECTION CERTIFICATES TO THE OWNER.

GROUNDING: PROVIDE GROUNDING IN ACCORDANCE WITH THE NEC FOR THE ELECTRICAL SYSTEM INCLUDING EQUIPMENT FRAMES, CONDUITS, SWITCHES, CONTROLLERS, WIRE-WAYS, NEUTRAL CONDUCTORS, AND OTHER EQUIPMENT. PROVIDE A GROUNDING CONDUCTOR IN ALL POWER CONDUITS.

LABELS: PROVIDE LABELS FOR ALL PANELBOARDS, CABINETS, SAFETY SWITCHES, MOTOR-DISCONNECT SWITCHES, AND MOTOR CONTROLLERS. LABELS SHALL BE MACHINE ENGRAVED, LAMINATED PLASTIC, PERMANENTLY ATTACHED WITH SELF-TAPPING SCREWS OR RIVETS. DO NOT USE SELF-ADHESIVE LABELS. LABEL SHALL INDICATE EQUIPMENT DESIGNATION AND ASSOCIATED PANEL AND CIRCUIT THAT SERVES IT.

J-BOX LABELING: LABEL ALL JUNCTION BOXES WITH PERMANENT MARKER IDENTIFYING CIRCUIT NUMBER AND PANELBOARD OF CIRCUITS WITHIN.

PANEL DIRECTORY: PROVIDE UPDATED TYPEWRITTEN PANELBOARD DIRECTORY CARD IN EACH PANELBOARD WITH CIRCUIT LOAD INFORMATION AND ROOM NUMBER CLEARLY IDENTIFIED. USE ACTUAL ROOM NUMBERS IN THE BUILDING, NOT THE ROOM NUMBERS SHOWN ON THE CONTRACT DRAWINGS, AS THEY ARE OFTEN DIFFERENT.

MOTOR COORDINATION: MOTORS, MOTOR STARTERS, CONTROLLERS, INTEGRAL DISCONNECT SWITCHES, AND CONTACTORS SHALL BE PROVIDED WITH THEIR RESPECTIVE PIECES OF EQUIPMENT BY THE EQUIPMENT SUPPLIER. COMMUNICATE WITH THE TRADES PROVIDING THE EQUIPMENT, VERIFYING ALL REQUIREMENTS, PROVIDE ALL ELECTRICAL CONNECTIONS REQUIRED THEREIN, AND INSTALL MOTOR STARTERS.

FIRE STOPPING NOTE:

CONTRACTOR SHALL PROVIDE AN APPROPRIATE LISTED THROUGH-PENETRATION FIRE STOPPING ASSEMBLY AT EACH PENETRATION OF FIRE RATED CONSTRUCTION (I.E. WALLS AND SLABS, ETC.). SLEEVES SHALL ONLY BE PERMITTED WHERE INDICATED IN THE CONTRACTOR SELECTED THROUGH-PENETRATION FIRE STOPPING ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL RATED ASSEMBLIES AND ASSOCIATED UL DESIGNATIONS. DEVICES INSTALLED RECESSED WITHIN FIRE RATED CONSTRUCTION (I.E. LIGHT SWITCHES, RECEPTACLES, ETC.) ARE ONLY PERMITTED WHEN AN APPROVED LISTED FIRE STOPPING SYSTEM EXISTS FOR THE APPLICATION. IF AN APPROVED LISTED FIRE STOPPING SYSTEM IS UNAVAILABLE, THE CONTRACTOR SHALL BRING THE CONDITION TO THE ATTENTION OF THE A/E FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK.

APPLICABLE CODE:

- NATIONAL ELECTRICAL CODE 2011

MOTOR DISCONNECTS: ALL MOTORS SHALL HAVE DISCONNECTING MEANS.

MOTOR CONTROLLERS: ALL 3-PHASE MOTORS SHALL HAVE MAGNETIC MOTOR CONTROLLERS WITH SOLID STATE OVERLOAD RELAY PROTECTION. THE SOLID STATE OVERLOAD RELAY SHALL HAVE PHASE LOSS AND PHASE OVERCURRENT PROTECTION WITH AUTOMATIC RESET UPON RETURN OF NORMAL POWER.

MOTOR FUSE PROTECTION: WHERE FUSE PROTECTION IS SPECIFICALLY REQUIRED BY THE EQUIPMENT MANUFACTURER, PROVIDE FUSED SWITCHES IN LIEU OF NON-FUSED SWITCHES OR IN LIEU OF ENCLOSED CIRCUIT BREAKERS, OR OTHER DEVICES INDICATED.

CONNECTION DETAILS: SECURE APPROVED SHOP DRAWINGS SHOWING WIRING DIAGRAMS, ROUGH-IN AND HOOK UP DETAILS FROM OTHER INVOLVED CONTRACTORS FOR EQUIPMENT WHICH MUST BE CONNECTED ELECTRICALLY.

COORDINATION DETAILS: MECHANICAL EQUIPMENT WILL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE LOCATIONS SHOWN ON THE ELECTRICAL DRAWINGS ARE APPROXIMATE. COORDINATE WITH THE MECHANICAL CONTRACTOR TO DETERMINE THE EXACT LOCATION OF EACH PIECE OF EQUIPMENT AND DETERMINE THE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS.

WORKING CLEARANCE: COORDINATE FINAL LOCATIONS OF ELECTRICAL EQUIPMENT WITH MECHANICAL DUCTWORK, PIPING ETC. AND ASSURE WORKING CLEARANCE REQUIRED BY NEC WILL BE MET. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED AROUND ELECTRICAL EQUIPMENT AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF EQUIPMENT PROVIDED AND INSTALLED BY OTHER TRADES.

STARTER MOUNTING: WHERE AN INDIVIDUALLY MOUNTED SAFETY SWITCH, STARTER OR CIRCUIT BREAKER IS SHOWN ADJACENT TO ITS RESPECTIVE LOAD AND NOT MOUNTED ON A WALL, PROVIDE ALL SUPPORTS, BRACKETS, ANCHORING, ETC. NECESSARY TO PROPERLY SUPPORT THE DEVICE.

MOUNTING HEIGHTS: MOUNTING HEIGHTS INDICATED ARE FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE WIRING DEVICE UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS OF LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURE UNLESS OTHERWISE NOTED.

FIRE STOPPING: FOR ANY WALL OR FLOOR PENETRATIONS THROUGH FIRE-RATED STRUCTURES PROVIDE FIRE-STOPPING TO SEAL ALL THE PENETRATIONS AFTER THE CONDUIT HAS BEEN INSTALLED. FIRE STOPPING FOR PENETRATIONS SHALL BE UL APPROVED PER THE PENETRATION MADE IN ORDER TO MAINTAIN FIRE-RATED INTEGRITY OF THE STRUCTURE.

CLEAN UP: ON PROJECT CLOSE-OUT CLEAN ALL ELECTRICAL DEVICES, LIGHTING FIXTURES, LAMPS AND LENSES, AND REMOVE ALL PAINT SPATTERS FROM DEVICES, FIXTURES AND PLATES. REPLACE ALL INOPERATIVE LAMPS.

ELECTRICAL LEGEND

LIGHTING



LIGHTING FIXTURE



DOWNLIGHT OR PENDANT MOUNTED FIXTURE



EXIT LIGHTING FIXTURE, WITH DIRECTIONAL ARROWS AS INDICATED WITH BATTERY PACK - CONNECT AHEAD OF LOCAL SWITCH.



SINGLE POLE SWITCH, 20A, 120/277V, 46" AFF UON



THREE-WAY SWITCH, 20A, 120/277V, 46" AFF UON

POWER

THE FOLLOWING SUBSCRIPTS SHALL APPLY TO RECEPTACLES WHERE USED:

WP: WEATHER RESISTANT GFI RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER.



DUPLEX CONVENIENCE RECEPTACLE 20A, 120V, 18" AFF, UON



EQUIPMENT CONNECTION



MOTOR CONNECTION



SAFETY SWITCH, 60A-3P, FU @ 30A, 3R

SWITCH RATING
NUMBER OF POLES
FUSE RATING (NF INDICATES NON-FUSED)
NEMA ENCLOSURE IF OTHER THAN NEMA 1



ELECTRICAL PANELBOARD



ELECTRICAL CIRCUIT RUN IN CONDUIT AND CIRCUIT HOMERUN TO PANELBOARD (PANEL AND CIRCUIT DESIGNATION AS INDICATED), AS A MINIMUM CONDITION, EACH SINGLE PHASE CIRCUIT SHALL HAVE 1 #12 PHASE CONDUCTOR, 1 #12 NEUTRAL CONDUCTOR AND 1 #12 GROUNDING CONDUCTOR IN 1/2" CONDUIT. PROVIDE ADDITIONAL PHASE CONDUCTORS AS REQUIRED FOR "MULTIPLE PHASED" ELECTRICAL LOADS. PROVIDE NEUTRAL CONDUCTOR TO ALL WALL SWITCH OUTLET BOXES WHETHER REQUIRED OR NOT. PROVIDE ADDITIONAL "SWITCH LEG" CONDUCTORS TO PROVIDE THE LIGHT FIXTURE CONTROL INDICATED. MULTIPLE SINGLE PHASE CONDUCTORS MAY BE GROUPED TOGETHER IN A COMMON CONDUIT IN ACCORDANCE WITH THE NEC AND AT THE CONTRACTOR'S DISCRETION. GROUNDING CONDUCTORS MAY BE SHARED AS ALLOWED BY THE NEC. NEUTRAL CONDUCTORS SHALL NOT BE SHARED. MULTI-POLE BREAKERS SHALL BE PROVIDED IN ACCORDANCE WITH THE NEC WHERE MULTI-WIRE BRANCH CIRCUITS ARE REQUIRED. CONDUIT LARGER THAN 1/2" AND CONDUCTORS LARGER THAN #12 SHALL BE AS INDICATED.

FIRE ALARM

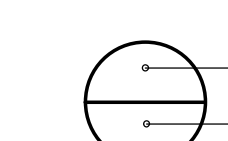


FIRE ALARM CONTROL PANEL



DUCT MOUNTED SMOKE DETECTOR

GENERAL



DETAIL OR SECTION NOTATION
ENUMERATION: A = DETAIL, 1 = SECTION
SHEET WHERE SECTION IS SHOWN



NEW WORK NOTE SYMBOL



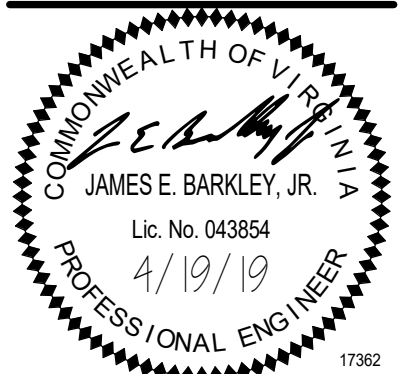
DEMOLITION NOTE SYMBOL

ABBREVIATIONS

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
BFG	BELOW FINISHED GRADE
C	CONDUIT
EF	EXHAUST FAN
ETR	EXISTING TO REMAIN
FLA	FULL LOAD AMPS
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HP	HORSE POWER/HEAT PUMP
KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY
KVA	KILO-VOLT-AMPERES
KW	KILO-WATTS
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
P	POLE
Ø	PHASE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATTS/WIRE
WP	WEATHERPROOF

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ACCOMACK, VA

LEGEND, NOTES AND
ABBREVIATIONS



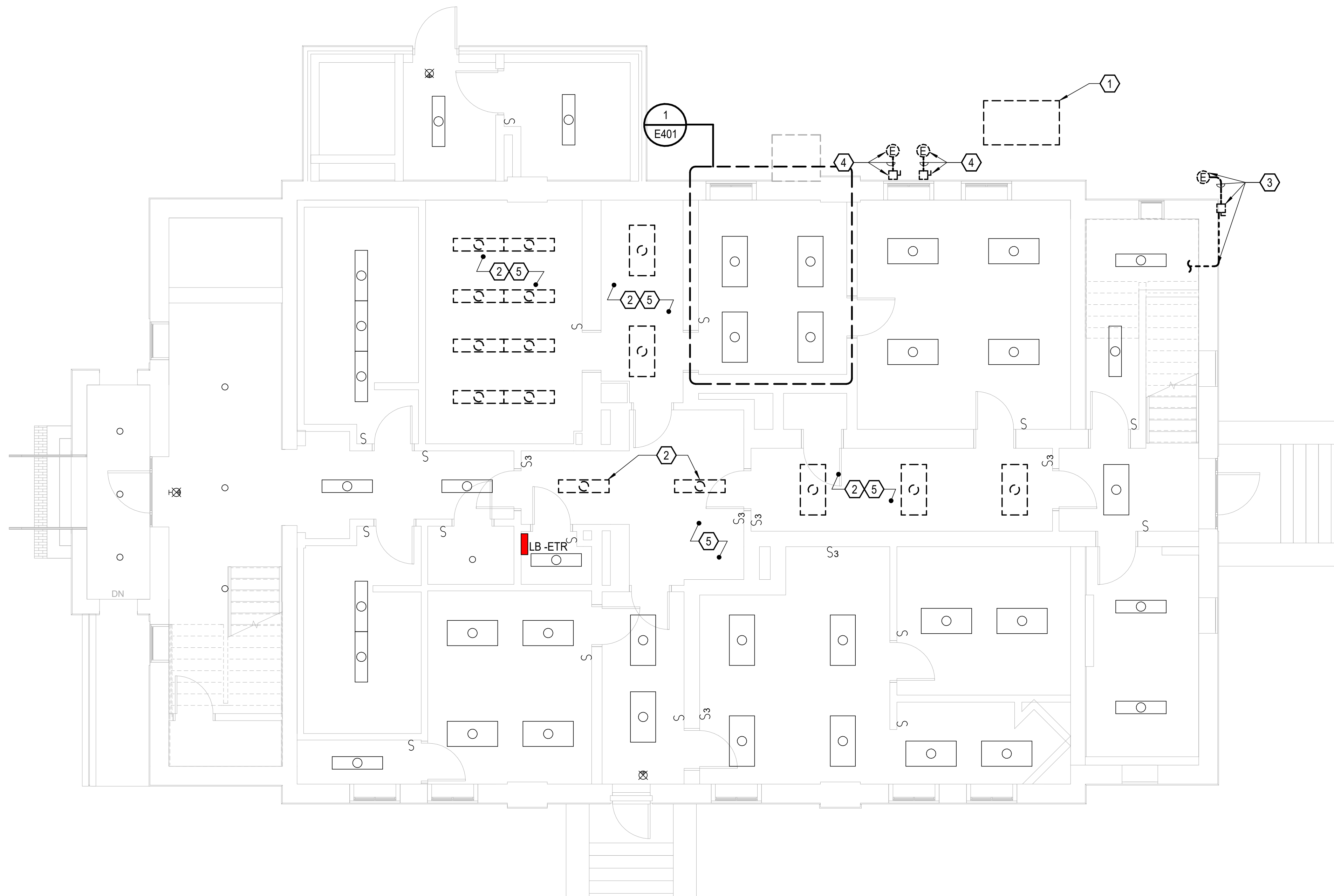
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NOTES THIS SHEET

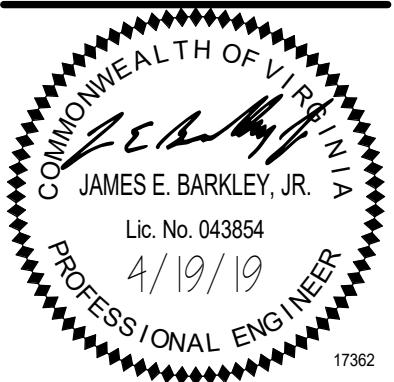
- 1) GENERATOR REMOVED BY OTHERS.
- 2) REMOVE EXISTING LIGHT FIXTURES. RETAIN EXISTING LIGHTING CIRCUIT FOR REUSE IN NEW WORK.
- 3) REMOVE EXISTING AIR COOLED CONDENSER UNIT CONNECTION AND ASSOCIATED 400A DISCONNECT COMPLETE BACK TO SOURCE. PATCH EXTERIOR WALL PENETRATION.
- 4) REMOVE EXISTING HEAT PUMP CONNECTION AND ASSOCIATED 30A DISCONNECT COMPLETE BACK TO SOURCE.
- 5) REMOVE AND RETAIN EXISTING CEILING MOUNTED DEVICES (FIRE ALARM DEVICES, SENSORS, ETC.). RETAIN EXISTING ASSOCIATED CIRCUITS FOR REUSE IN NEW WORK.

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

GRAPHIC SCALE:



ACCOMACK COUNTY COURTHOUSE
EXTERIOR RENOVATION & HVAC REPLACEMENT
ACCOMACK, VA
FIRST FLOOR DEMOLITION PLAN



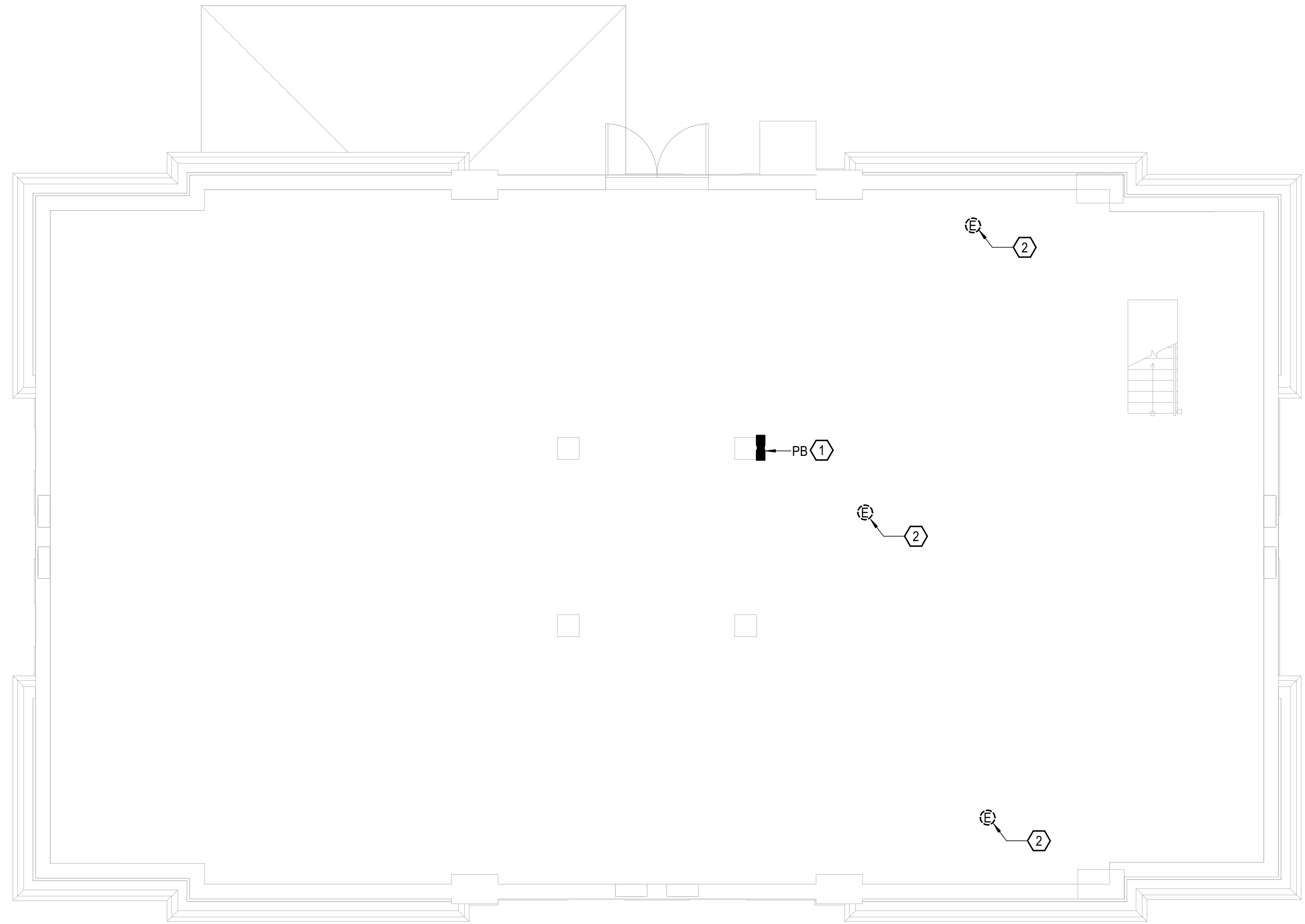
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NOTES THIS SHEET

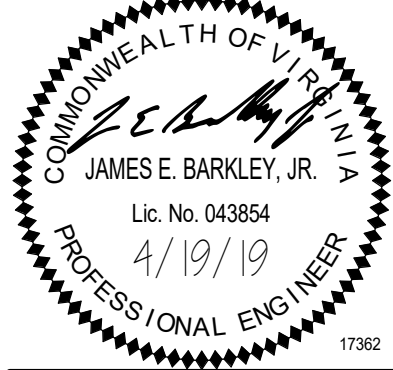
- ① REMOVE EXISTING PANELBOARD AND ASSOCIATED FEEDER CONDUIT AND CONDUCTORS COMPLETE BACK TO SOURCE. RETAIN ALL ETR BRANCH CIRCUITS FOR REUSE IN NEW WORK.
- ② REMOVE EXISTING AIR HANDLER AND ASSOCIATED DISCONNECT COMPLETE BACK TO SOURCE.

ATTIC DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

GRAPHIC SCALE:



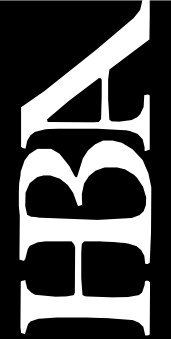
ACCOMACK COUNTY COURTHOUSE
EXTERIOR RENOVATION & HVAC REPLACEMENT
ACCOMACK, VA
ATTIC DEMOLITION PLAN



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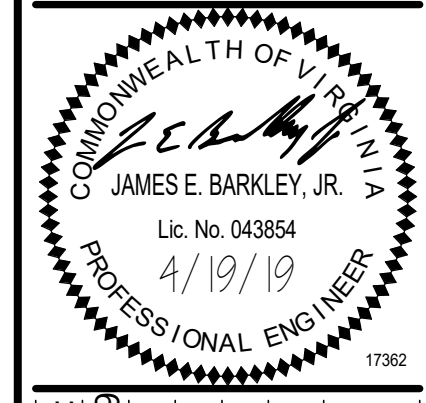


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ACCOMACK COUNTY COURTHOUSE
 EXTERIOR RENOVATION & HVAC REPLACEMENT
 ACCOMACK, VA
 FIRST FLOOR NEW WORK PLAN



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NOTES THIS SHEET

- 1 RECONNECT TO EXISTING CIRCUIT RETAINED DURING DEMOLITION.
- 2 HP-1; 24.2MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, FU@40A, 3R DISCONNECT.
- 3 LOCATION OF EXISTING PENETRATION FROM EXTERIOR INTO THE BASEMENT. ALL EXTERIOR CIRCUITS SERVED FROM PANEL LOCATED IN THE BASEMENT SHALL BE ROUTED THROUGH EXISTING PENETRATION. SEE ELEVATION DETAILS ON SHEET E501.
- 4 HP-2; 24.2MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, FU@40A, 3R DISCONNECT.
- 5 HP-3; 36.5MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, FU@60A, 3R DISCONNECT.
- 6 HP-4; 36.5MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, FU@60A, 3R DISCONNECT.
- 7 HP-5; 24.2MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, FU@40A, 3R DISCONNECT.
- 8 HP-6; 24.2MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, FU@40A, 3R DISCONNECT.
- 9 HP-7; 22MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, FU@35A, 3R DISCONNECT.
- 10 2 #8, 1 #10 GND - 1" C
- 11 HP-9; 24.2MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, FU@40A, 3R DISCONNECT.
- 12 REINSTALL EXISTING CEILING MOUNTED DEVICES (FIRE ALARM DEVICES, SENSORS, ETC.) RETAINED DURING DEMOLITION AND RECONNECT TO EXISTING CIRCUIT RETAINED DURING DEMOLITION.
- 13 2 #6, 1 #8 GND - 1" C
- 14 HP-8; 36.5MCA, 208V 1Ø. PROVIDE WITH 60A-2P, FU@60A, 3R DISCONNECT.

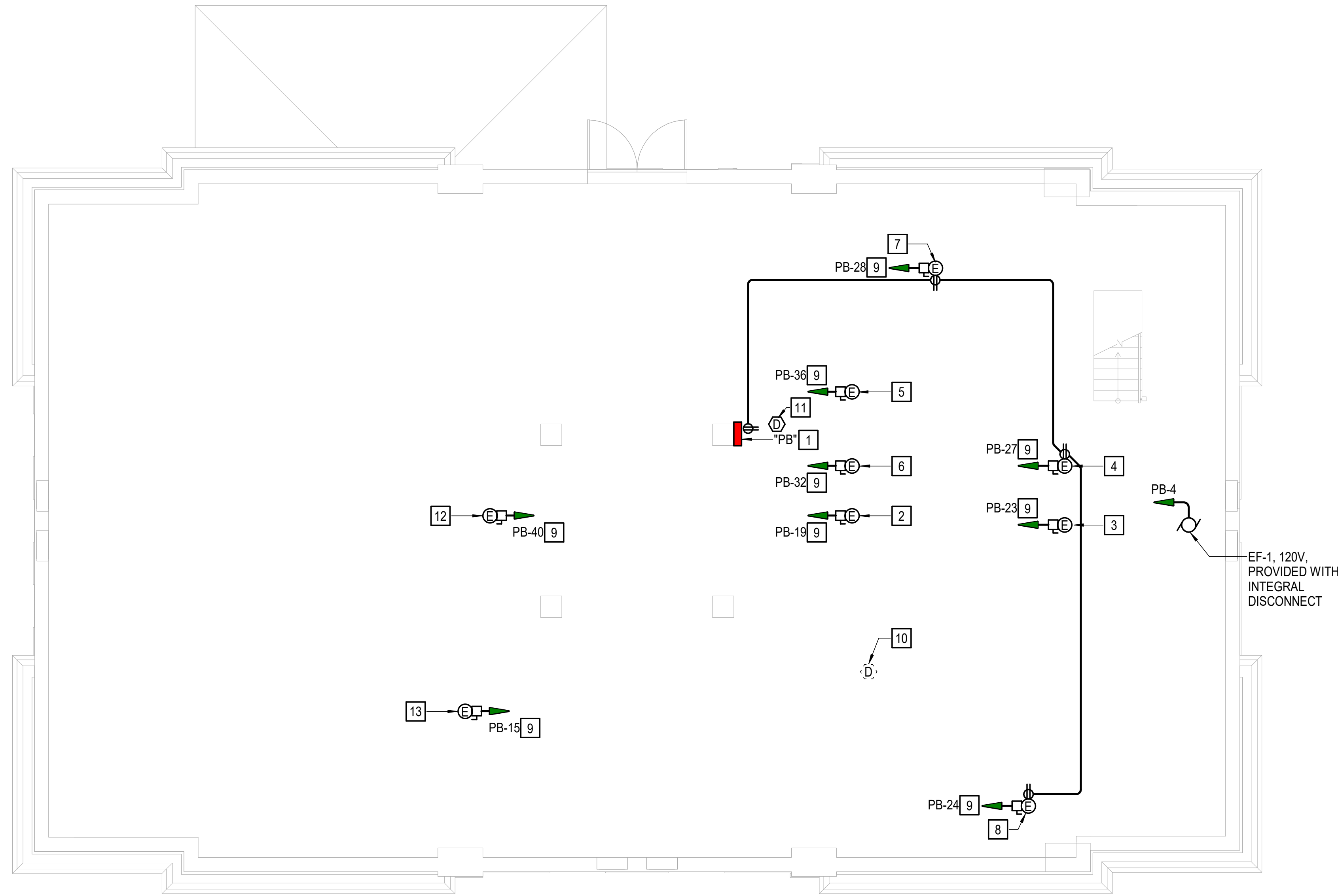


FIRST FLOOR NEW WORK PLAN
 SCALE: 3/16" = 1'-0"

GRAPHIC SCALE:



MECHANICAL, ELECTRICAL ENGINEERS
 VIRGINIA BEACH, VA • 757-490-7233
 WWW.PACE-ENGINEERING.COM



ATTIC NEW WORK PLAN
SCALE: 3/16" = 1'-0"

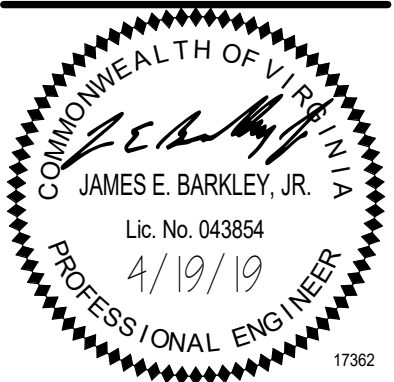
NOTES THIS SHEET

- 1] PROVIDE PANELBOARD AS INDICATED. RECONNECT EXISTING BRANCH CIRCUITS RETAINED DURING DEMOLITION. EXTEND AND REWORK CIRCUITS AS REQUIRED.
- 2] AHU-1; 37.5MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, NF DISCONNECT.
- 3] AHU-2; 37.5MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, NF DISCONNECT.
- 4] AHU-3; 41.1MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, NF DISCONNECT.
- 5] AHU-4; 41.1MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, NF DISCONNECT.
- 6] AHU-5; 37.5MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, NF DISCONNECT.
- 7] AHU-6; 37.5MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, NF DISCONNECT.
- 8] AHU-7; 37.5MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, NF DISCONNECT.
- 9] 2 #8, 1 #8 GND - 3/4"C
- 10] REMOVE EXISTING DUCT MOUNTED SMOKE DETECTOR. RETAIN DEVICE AND ASSOCIATED CIRCUITING FOR REUSE IN NEW WORK.
- 11] REINSTALL DUCT MOUNTED SMOKE DETECTOR. RECONNECT TO EXISTING CIRCUIT RETAINED DURING DEMOLITION. EXTEND, REWORK, AND REPROGRAM EXISTING CIRCUIT AS REQUIRED.
- 12] AHU-8; 41.1MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, NF DISCONNECT.
- 13] AHU-9; 37.5MCA, 208V, 1Ø. PROVIDE WITH 60A-2P, NF DISCONNECT.

GRAPHIC SCALE:



EXTERIOR RENOVATION & HVAC REPLACEMENT
 ACCOMACK COUNTY COURTHOUSE
 ACCOMACK, VA
ATTIC NEW WORK PLAN

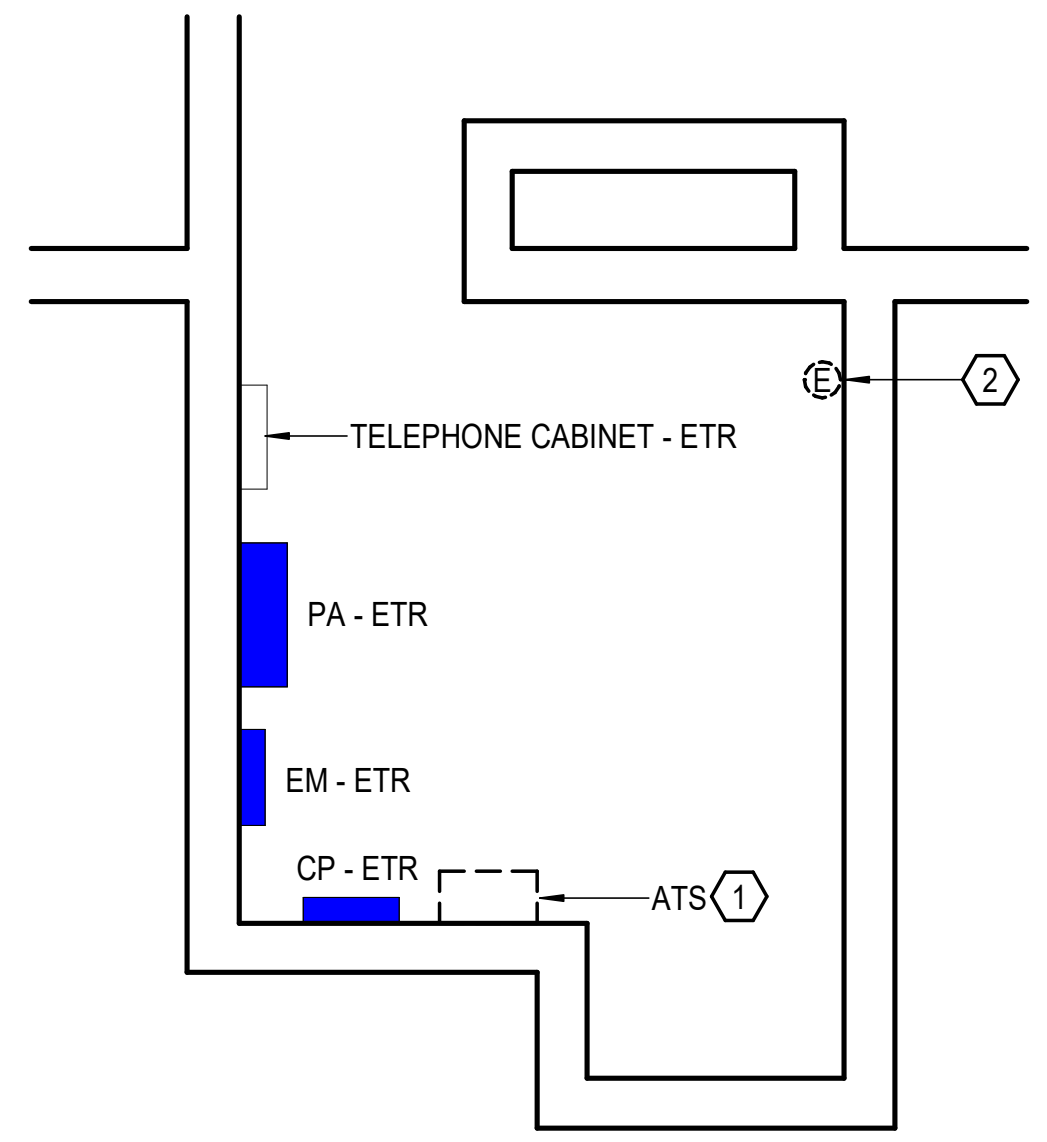


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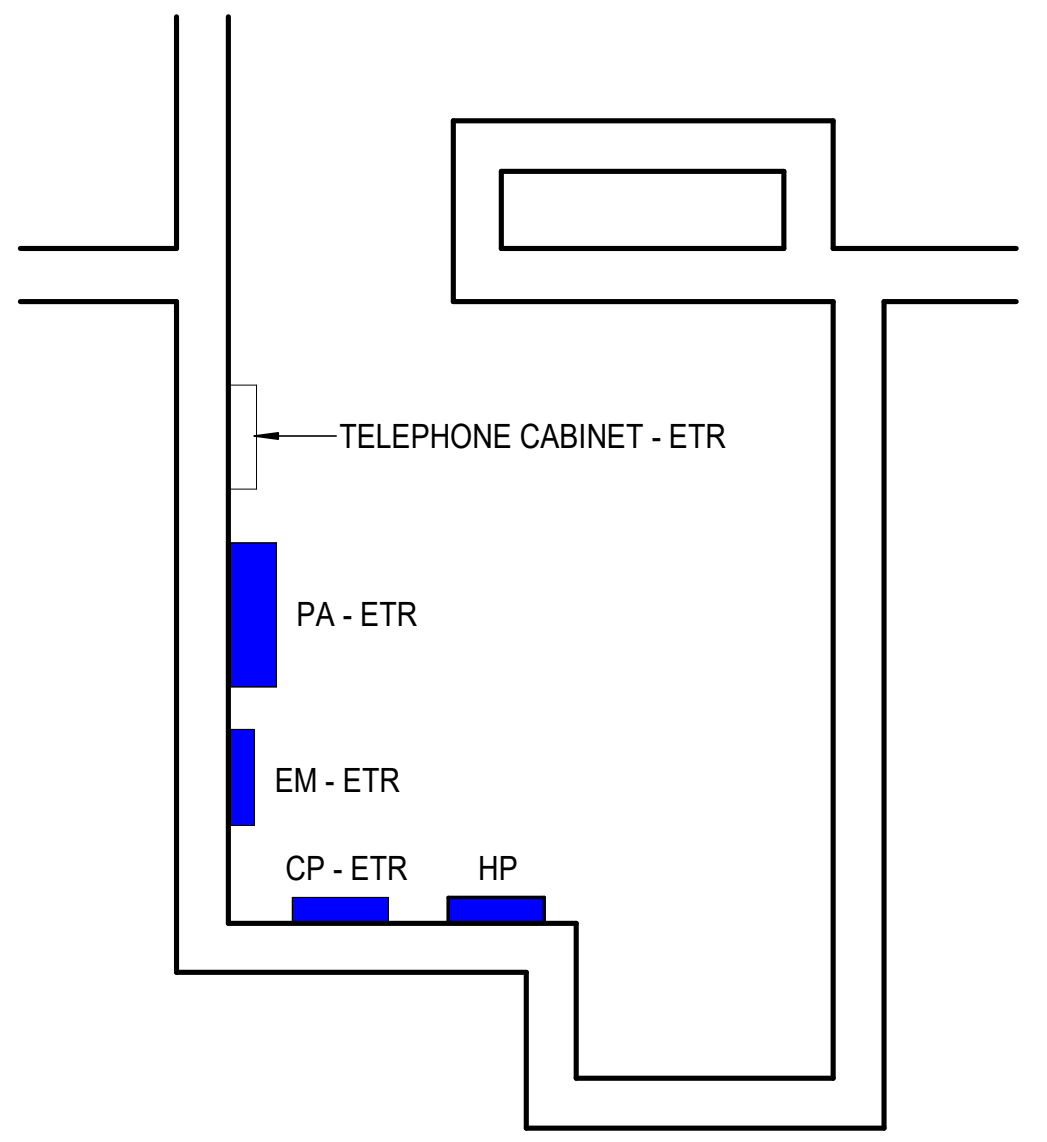
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E102

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1 BASEMENT DEMOLITION PLAN
 ED101 SCALE: 1/4" = 1'-0"



2 BASEMENT NEW WORK PLAN
 E101 SCALE: 1/4" = 1'-0"

NOTES THIS SHEET

- ① REMOVE EXISTING ATS COMPLETE AND TURN OVER TO OWNER. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS COMPLETE BACK TO SOURCE. ALL UNDERGROUND CONDUIT CAN BE CAPPED AND ABANDONED IN PLACE.
- ② REMOVE EXISTING BOILER CONNECTION COMPLETE BACK TO SOURCE.

LUMINAIRE DESCRIPTION:

- HOUSING SHALL BE ONE-PIECE COLD-ROLLED STEEL.
- FINISH SHALL BE WHITE POLYESTER PAINT.
- LENS SHALL BE CLEAR ACRYLIC.
- DRIVER SHALL BE HIGH PERFORMANCE LED DRIVER, FULLY ACCESSIBLE FROM BELOW THE CEILING.

DETAIL BASED ON COLUMBIA LIGHTING, "CFP" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
△	4100	4000K LED	40	120/277	RECESSED, CEILING

2' X 4' RECESSED LED FIXTURE

LUMINAIRE DESCRIPTION:

- HOUSING SHALL BE ONE-PIECE COLD-ROLLED STEEL.
- FINISH SHALL BE WHITE POLYESTER PAINT.
- LENS SHALL BE CLEAR ACRYLIC.
- DRIVER SHALL BE HIGH PERFORMANCE LED DRIVER, FULLY ACCESSIBLE FROM BELOW THE CEILING.

DETAIL BASED ON COLUMBIA LIGHTING, "CFP" SERIES

TYPE	LUMENS	LAMP TYPE	INPUT WATTS	VOLTAGE	MOUNTING
△	4100	4000K LED	40	120/277	RECESSED, CEILING

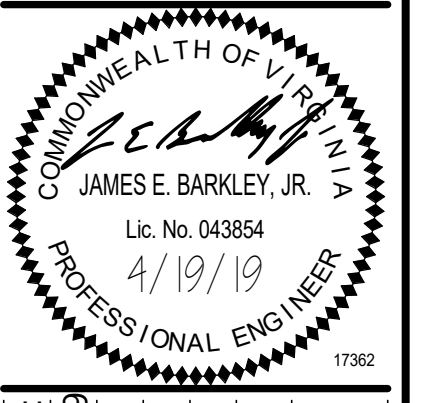
1' X 4' RECESSED LED FIXTURE



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ACCOMACK COUNTY COURTHOUSE
EXTERIOR RENOVATION & HVAC REPLACEMENT
 ACCOMACK, VA

ENLARGED PLANS



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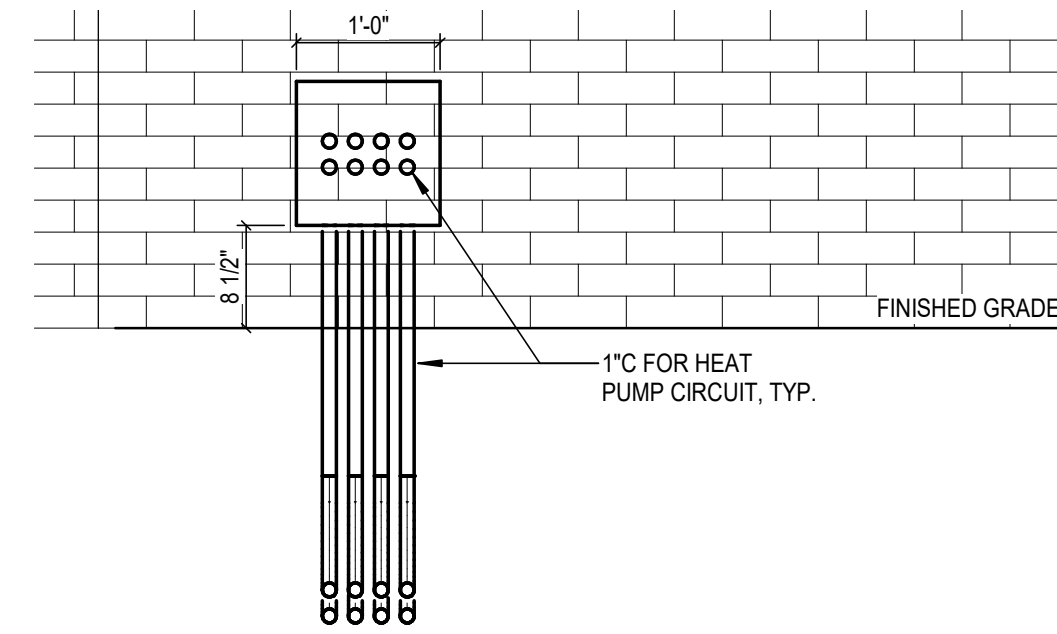
PANELBOARD PB SCHEDULE													
SEE POWER RISER DIAGRAM FOR RATINGS													
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE	CKT NO.	BKR TRIP	LOAD (AMPS)			LOAD SERVED	
	A	B	C						A	B	C		
CONTROLS *	4.0			20/1P	1	A	2	20/1P	6.0			LIGHTS *	
SPARE				20/1P	3	B	4	20/1P		3.0		EF-1	
SPARE				20/1P	5	C	6	20/1P				SPARE	
SPARE				20/1P	7	A	8	20/1P				SPARE	
SPARE				20/1P	9	B	10	20/1P				SPARE	
SPARE				20/1P	11	C	12	20/1P				SPARE	
SPARE				20/1P	13	A	14	20/1P				SPARE	
AH U-9		30.0		40/2P	15	B	16	80/3P				SPARE	
AHU-1	30.0		30.0	40/2P	19	C	20	50/2P				SPARE	
AHU-2		30.0		40/2P	23	A	24	40/2P		30.0		AHU-7	
AHU-3		32.9		45/2P	27	B	28	40/2P		30.0		AHU-6	
WATER HEATER *	22.0		32.9	30/3P	31	C	32	40/2P		30.0		AHU-5	
PANEL LA *	48.0		22.0	70/3P	37	A	36	45/2P		30.0		AHU-4	
		48.0				B	40	45/2P		32.9		AHU-8	
		48.0				C				32.9			
TOTAL	134.0	162.9	162.9						98.9	95.9	125.8	TOTAL	
TOTAL CONNECTED AMPS A: 232.9 B: 258.8 C: 288.7													

PANELBOARD HP SCHEDULE													
SEE POWER RISER DIAGRAM FOR RATINGS													
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE	CKT NO.	BKR TRIP	LOAD (AMPS)			LOAD SERVED	
	A	B	C						A	B	C		
RECEPTACLES	3.0			20/1P	1	A	2	20/1P				SPARE	
SPARE				20/1P	3	B	4	20/1P				SPARE	
SPARE				20/1P	5	C	6	20/1P				SPARE	
SPARE				20/1P	7	A	8	20/1P				SPARE	
SPARE				20/1P	9	B	10	20/1P				SPARE	
SPARE				20/1P	11	C	12	20/1P				SPARE	
SPARE				20/1P	13	A	14	20/1P				SPARE	
SPARE				20/1P	15	B	16	20/1P				SPARE	
SPARE				20/1P	17	C	18	20/1P				SPARE	
SPARE				20/1P	19	A	20	20/1P				SPARE	
SPARE				20/1P	21	B	22	40/2P		19.4		HP-9	
HP-1	19.4			40/2P	25	C	26	60/2P		29.2		HP-8	
HP-2		19.4		40/2P	29	A	30	40/2P		29.2		HP-7	
HP-3		29.2		60/2P	33	B	34	40/2P		19.4		HP-6	
HP-4		24.8		60/2P	37	C	38	40/2P		27.2		HP-5	
		24.8				A	42	20/1P		27.2			
			24.8	20/1P	41	B				27.2			
TOTAL	66.6	73.4	73.4						75.8	95.2	85.4	TOTAL	
TOTAL CONNECTED AMPS A: 142.4 B: 168.6 C: 158.8													

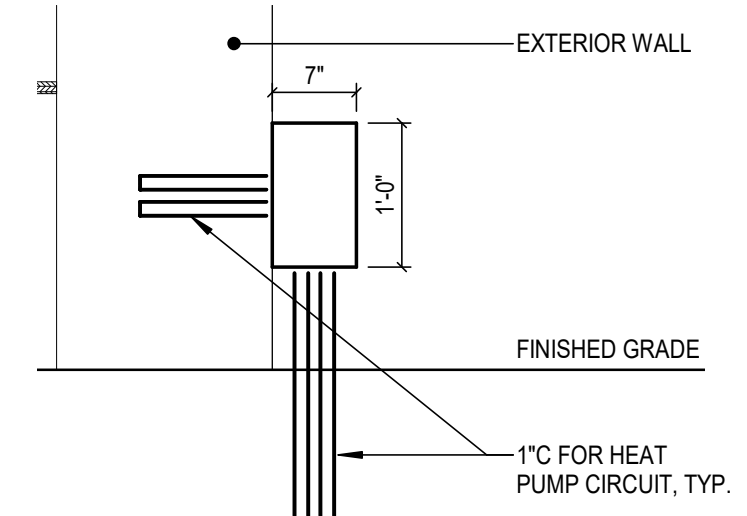
EXISTING PANELBOARD PA SCHEDULE													
SEE POWER RISER DIAGRAM FOR RATINGS													
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE	CKT NO.	BKR TRIP	LOAD (AMPS)			LOAD SERVED	
	A	B	C						A	B	C		
SPACE ONLY				225/3P	2	A	2	225/3P		142.4		PANEL HP	
SPACE ONLY					3	B				168.6			
SPACE ONLY					5	C				158.8			
PANEL PB+	232.9			400/3P	7	A	8						
		258.8				B							
			288.7			C							
SPACE ONLY					13	A	14	20/1P		*		RECEPTACLES	
EXIT LIGHTS			*	20/1P	15	B	16	20/1P		*		LIGHTING	
BOILER			*	20/1P	17	C	18	20/3P		*		PUMP	
SPARE (OFF)			*	20/1P	19	A				*			
SPARE (OFF)			*	20/1P	21	B				*			
PANEL EM			*	125/3P	23	C	24	100/3P		*		PANEL LB	
			*			A				*			
PANEL CP			*	100/3P	29	B	30	150/3P		*		CLERK'S OFFICE	
			*			C				*			

NOTES:
 PANELBOARD IS A CUTLER HAMMER POW-R-LINE C
 * INDICATES EXISTING LOAD TO REMAIN
 BOLD INDICATES NEW LOAD
 + INDICATES EXISTING LOAD REMOVED DURING DEMOLITION

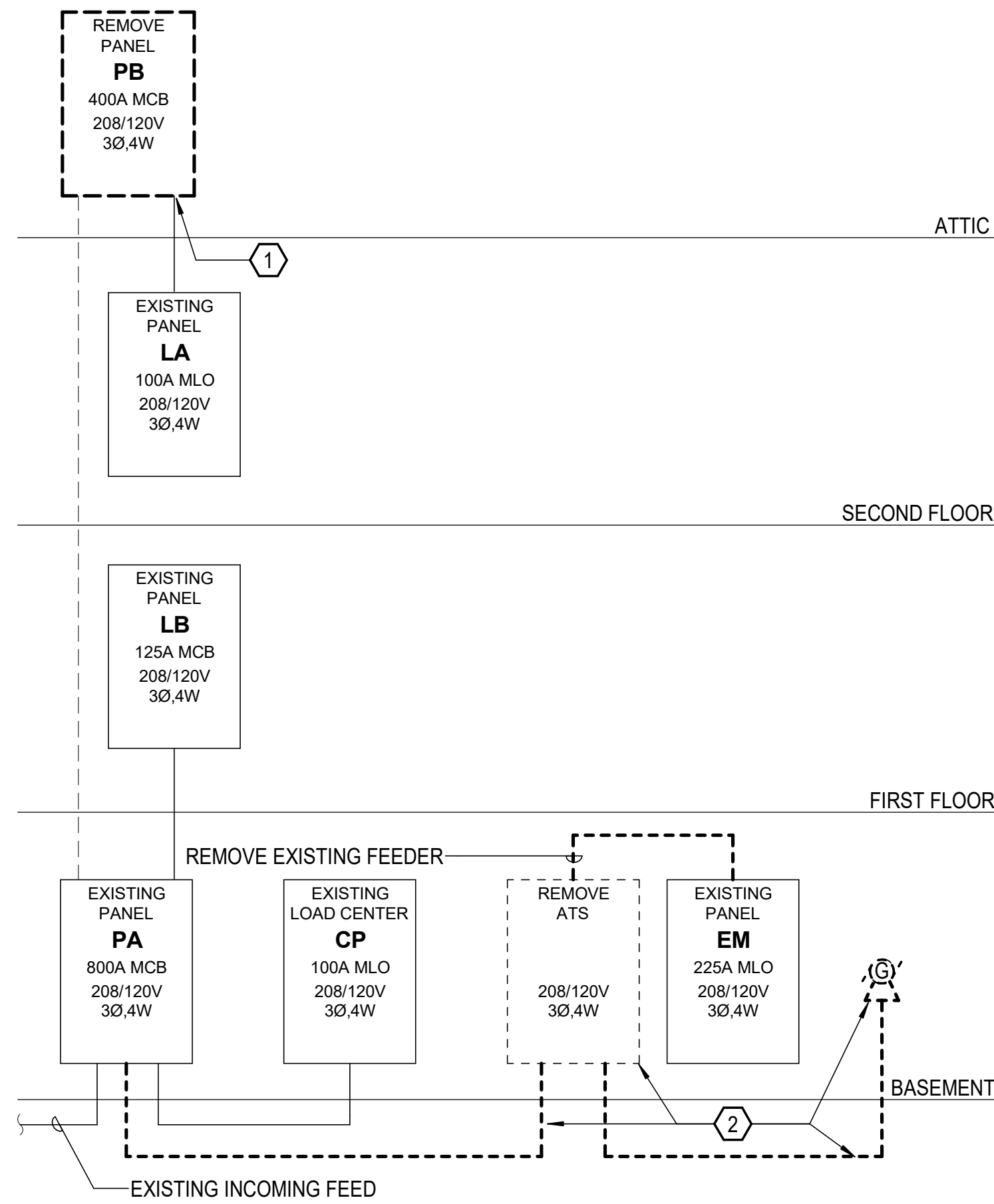
NOTES:
 * INDICATES EXISTING LOAD RETAINED DURING DEMOLITION THAT SHALL BE RECONNECTED. LOADS ARE ESTIMATED



FRONT CONDUIT SECTION
 SCALE: 3/4" = 1'-0"



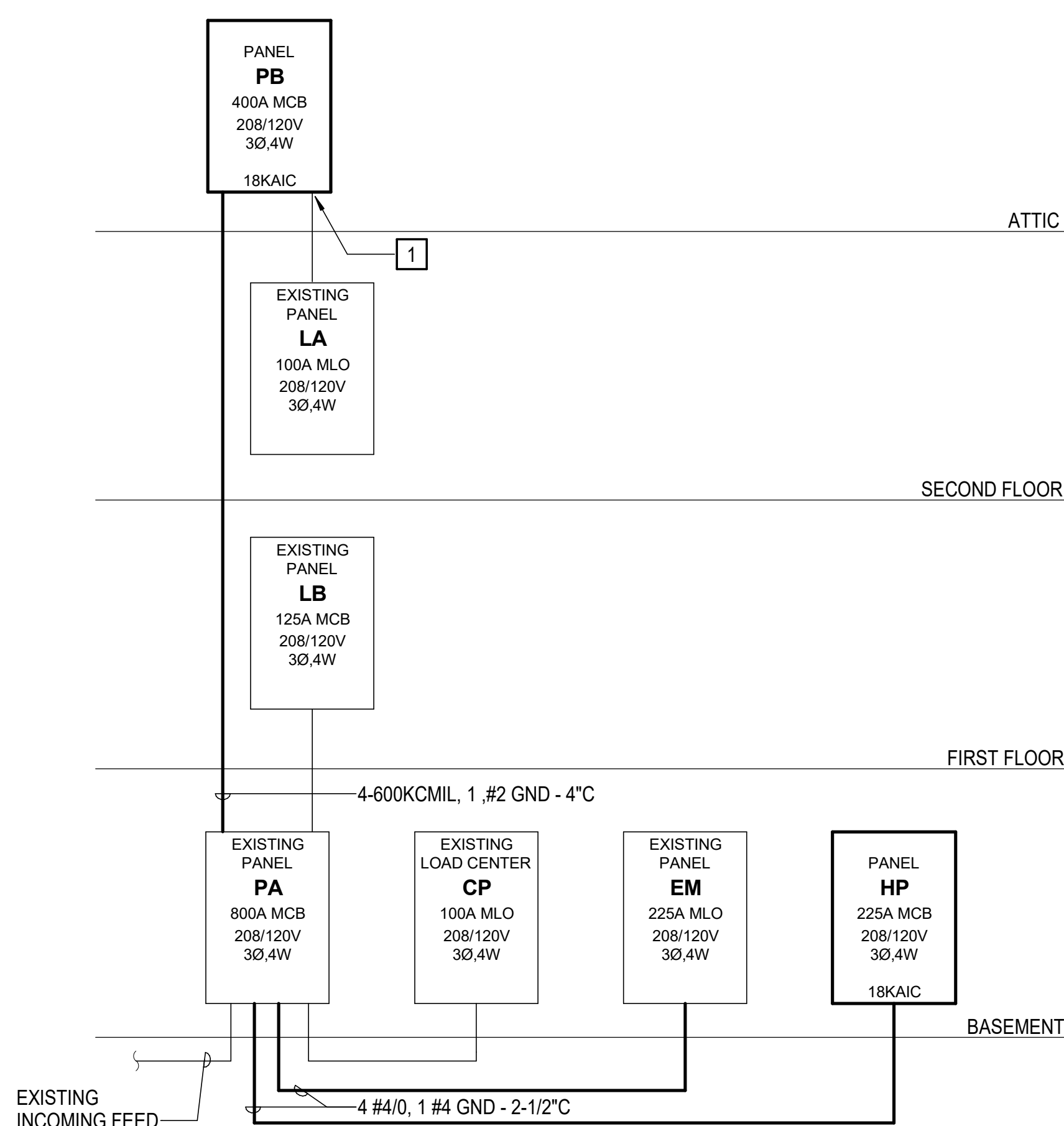
SIDE CONDUIT SECTION
 SCALE: 3/4" = 1'-0"



PARTIAL POWER RISER DIAGRAM - DEMOLITION

NO SCALE
 DEMOLITION NOTES THIS SHEET

- 1 RETAIN EXISTING FEEDER SERVING PANEL "LA" AND ALL EXISTING BRANCH CIRCUITS TO REMAIN FOR REUSE IN NEW WORK.
- 2 REMOVE GENERATOR, ATS, AND ALL ASSOCIATED CONDUCTORS AND CONDUIT COMPLETE.



PARTIAL POWER RISER DIAGRAM - NEW WORK

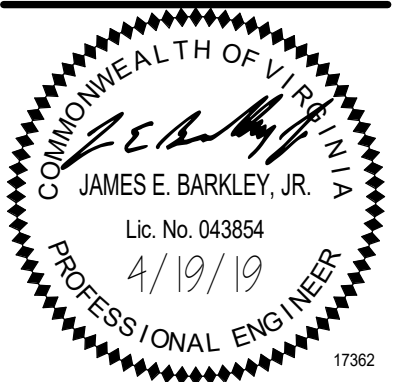
NO SCALE
 NEW WORK NOTES THIS SHEET

- 1 RECONNECT EXISTING FEEDER SERVING PANEL "LA" AND ALL EXISTING BRANCH CIRCUITS RETAINED DURING DEMOLITION.



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ACCOMACK COUNTY COURTHOUSE
 EXTERIOR RENOVATION & HVAC REPLACEMENT
 ACCOMACK, VA
 RISER DIAGRAMS



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