

ABBREVIATIONS

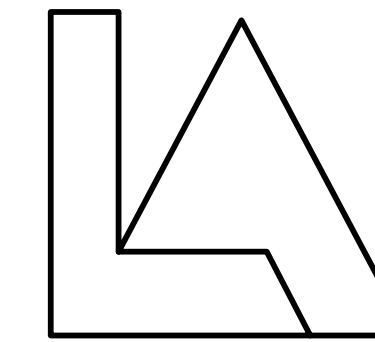
ACS FLR	ACCESS FLOOR (1NG)	JAN	JANITOR
ACS PNL	ACCESS PANEL	JST	JOIST
ACST	ACOUSTIC (AL)	JT	JOINT
AD	AREA DRAIN		
ADJ	ADJACENT; ADJUSTABLE	L	LONG; LENGTH
ADDL	ADDITIONAL	LAB	LABORATORY
ADDM	ADDENDUM	LAM	LAMINATE (D)
AFG	ABOVE FINISH COUNTER	LAV	LAVATORY
AFF	ABOVE FINISH FLOOR	LBS	POUNDS
AL	ALUMINUM	LF	LINEAR FEET
ALT	ALTERNATE	LPT	LOW POINT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MACH	MACHINE
APPROX	APPROXIMATE	MAS	MASONRY
ARCH	ARCHITECT (URAL)	MATL	MATERIAL
ASC	ABOVE SUSPENDED CEILING	MAX	MAXIMUM
ASPH	ASPHALT	MRK BD	MARKER BOARD
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	NDF	MEDIUM DENSITY FIBERBOARD
BAL	BALANCE	MEGH	MECHANICAL
BD	BOARD	MED	MEDIUM
BITUM	BITUMINOUS	MTL	METAL
BLDG	BUILDING	MFR	MANUFACTURER
BLKG	BLOCKING	MIN	MINIMUM; MINUTE
BOT	BOTTOM	MISC	MISCELLANEOUS
BRDG	BRIDGING	MO	MASONRY OPENING;
BS	BOTH SIDES	MO	MOTOR OPERATED
BTWN	BETWEEN	MTD	MOUNTED
BUR	BUILT-UP ROOFING	MTG	MOUNTING
CAB	CABINET	N	NORTH
CAP	CAPACITY	NIC	NOT IN CONTRACT
CH BD	CHALKBOARD	NO	NUMBER
C1	CAST IRON	NOM	NOMINAL
CJ	CONTROL JOINT	NTS	NOT TO SCALE
CLG	CEILING		
CLO	CLOSET	OC	ON CENTER
CLR	CLEAR	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	OPNG	OPENING
CO	CASED OPENING	OPP	OPPOSITE
COL	COLUMN	OVD	OVERHEAD
CONC	CONCRETE		
CONN	CONNECTION	PART	PARTIAL
CONSTR	CONSTRUCTION	PL	PLATE
CONT	CONTINUOUS	PLAM	PLASTIC LAMINATE
CONTR	CONTRACTOR	PLAS	PLASTER
COORD	COORDINATE	PLBS	PLUMBING
CPT	CARPET (ED)	PLYND	PLYWOOD
CSK	COUNTER SUNK	PNL	PANEL
CT	CERAMIC TILE	PTD	PAINTED
CU	COPPER	PTN	PARTITION
CW	COLD WATER	PVC	POLYVINYL CHLORIDE
D	DEPTH; DEEP	QT	QUARRY TILE
DBL	DOUBLE		
DET	DETAIL	R	RADIUS; RISER
DF	DRINKING FOUNTAIN	RD	ROOF DRAIN
DIA	DIAMETER	REINF	REINFORCEMENT
DIM	DIMENSION	REQD	REQUIRED
DN	DOWN	RESIL	RESILIENT
DR	DOOR	REV	REVISION
DS	DOWNSPOUT	RM	ROOM
DWG	DRAINING	RO	ROUGH OPENING
		RTU	ROOF TOP UNIT
E	EAST	RNL	RAIN WATER LEADER
EA	EACH		
EE	EACH END	S	SOUTH
EF	EACH FACE	SAPC	SUSPENDED ACOUSTICAL
EJ	EXPANSION JOINT		PANEL CEILING
EL	ELEVATION	SATC	SUSPENDED ACOUSTICAL
ELEC	ELECTRIC (AL)	SCHD	TILE CEILING
ELEV	ELEVATOR	SCH	SCHEDULE (D)
EMER	EMERGENCY	SCM	SOLID CORE WOOD
ENCL	ENCLOSE (URE)	SECT	SECTION
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	SF	STOREFRONT; SQUARE FOOT
EQ	EQUAL	SIM	SIMILAR
EQUIP	EQUIPMENT	SQ	SQUARE
EM	EACH WAY	SST	STAINLESS STEEL
ENC	ELECTRIC WATER COOLER	ST	STREET
EXH	EXHAUST	STC	SOUND TRANSMISSION
EXIST	EXISTING		CRITERIA
EXP	EXPOSED; EXPANSION	STD	STANDARD
EXT	EXTERIOR; EXTINGUISHER	STL	STEEL
		STOR	STORAGE
F	FAHRENHEIT	STRUCT	STRUCTURE (AL)
F/O	FACE OF	SUSP	SUSPENDED
FA	FIRE ALARM	SYMM	SYMMETRY (ICAL)
FD	FLOOR DRAIN		
FDTN	FOUNDATION	T	TREAD
FE	FIRE EXTINGUISHER	T&G	TONGUE AND GROOVE
FH	FIRE HYDRANT	T/O	TOP OF
FIN	FINISH (ED)	TEL	TELEPHONE
FLASH	FLASHING	TEMP	TEMPERATURE; TEMPORARY
FLR	FLOOR	THK	THICK (NESS)
FLUOR	FLUORESCENT	THRU	THROUGH
FR	FIRE RESISTANT	TK BD	TACK BOARD
FRN	FIRE RETARDANT	TON	TOP OF WALL
	TREATED WOOD	TRTD	TREATED
FT	FOOT, FEET	TV	TELEVISION
FTG	FOOTING	TYP	TYPICAL
FTR	FLUE THRU ROOF		
FURG	FURRING (ED)	UC	UNDER COUNTER
		UGND	UNDERGROUND
GA	GAGE	UL	UNDERWRITER'S LABORATORIES
GALV	GALVANIZED	UN	UNLESS OTHERWISE NOTED
GL	GLASS		
GYP	GYPNUM	VCT	VINYL COMPOSITION TILE
		VERT	VERTICAL
HB	HOSE BIBB	VTR	VENT THRU ROOF
HC	HANDICAP	VWC	VINYL WALL COVERING
HCK	HOLLOW CORE WOOD		
HDM	HARDWARE	W	WIDTH; WASTE; WEST; WIRE
HM	HOLLOW METAL	W/	WITHOUT
HORIZ	HORIZONTAL	W/O	WITHOUT
HPT	HIGH POINT	WC	WATER CLOSET
HT	HEIGHT	WD	WOOD
HVAC	HEATING/VENTILATING/ AIR CONDITIONING	WDR	WINDOW
		WP	WATERPROOF (1NG); WORK POINT
HW	HOT WATER	WT	WEIGHT
		WTF	WELDED WIRE FABRIC
ID	INSIDE DIAMETER		
INCL	INCLUDE (D), (1NG)	XFMR	TRANSFORMER
INFO	INFORMATION		
INSUL	INSULATION; INSULATED		
INT	INTERIOR		

FRIENDS MEETING OF WASHINGTON

ACCESSIBILITY LINK

2111 FLORIDA AVENUE NW
WASHINGTON, DC 20008

BID SET 12-1-2017
CONSTRUCTION SET 5-9-2018



Lippincott Architects
9428 GARDEN COURT
POTOMAC, MD 20854



GAUTHIER
ALVARADO
ASSOCIATES

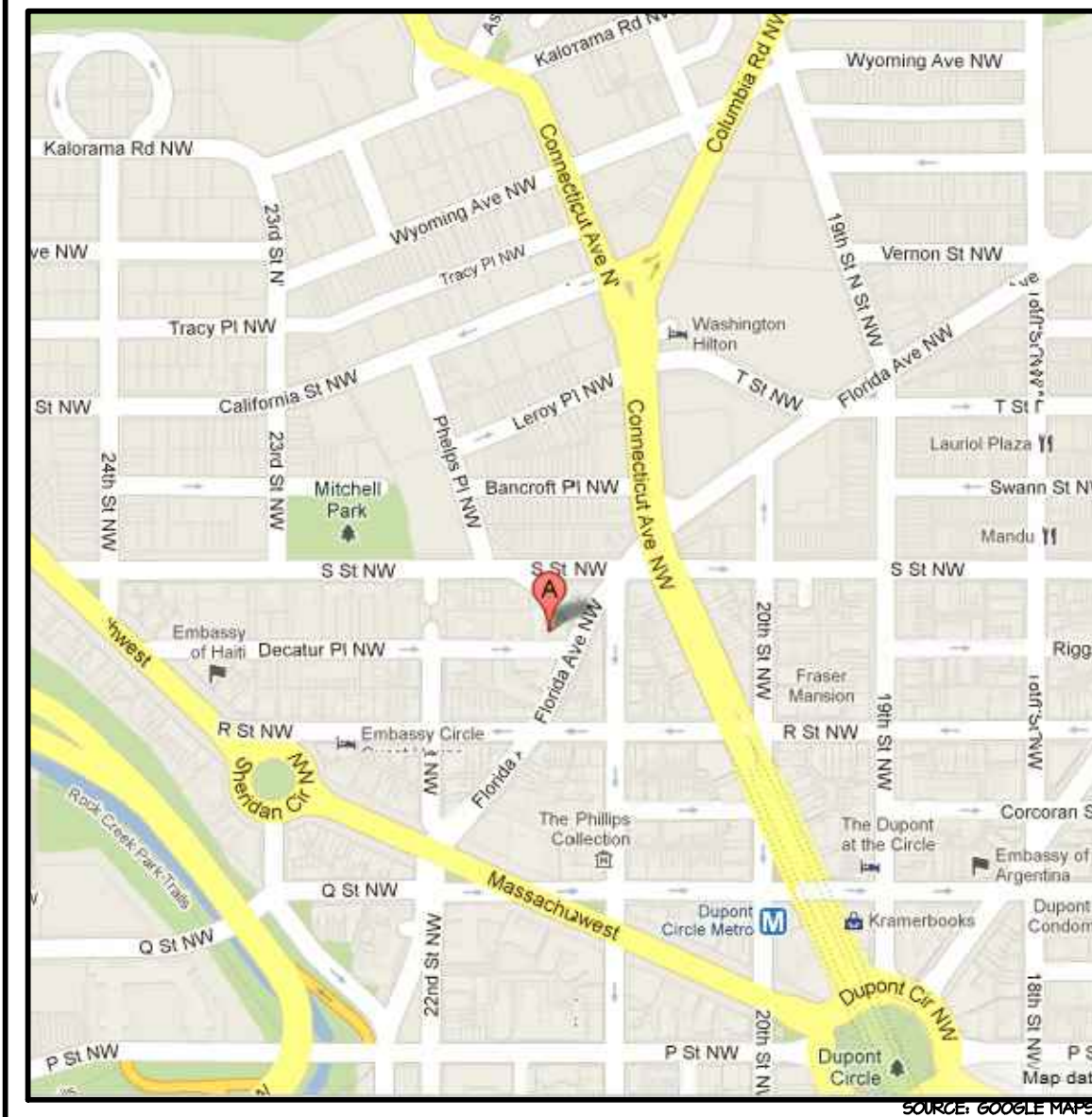
ARCHITECTURE | ENGINEERING | PLANNING

10201 FAIRFAX BOULEVARD, SUITE 225, FAIRFAX, VIRGINIA 22030
703-241-2202 WWW.GAA-AE.COM

GENERAL NOTES

- PERFORM WORK IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL GOVERNING ORDINANCES, CODES AND REGULATIONS.
- ALL MATERIALS SHALL COMPLY WITH APPLICABLE CODES, ORDINANCES AND REGULATIONS. (ALL WOOD FOR FRAMING OR BLOCKING SHALL BE FIRE RETARDANT TREATED.)
- VISIT AND BECOME FAMILIAR WITH THE SITE AND BUILDING PRIOR TO BID. INCLUDE THE COST OF ALL WORK DESCRIBED IN THE CONTRACT DOCUMENTS AND THAT IS REQUIRED OR REASONABLY IMPLIED TO ACHIEVE THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.
- NOTIFY THE ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THE NEW WORK, OF ANY OMISSIONS OR CONFLICTS IN THE DRAWINGS AND ANY RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK INCLUDING THE COORDINATION WITH OTHER TRADES.
- COORDINATE AND WORK WITH ALL TRADES ON THE PROJECT NOT UNDER CONTRACT TO THE CONTRACTOR. ANY CHANGES OR DELAYS ARISING FROM CONFLICTS BETWEEN SUCH TRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- FIELD VERIFY ALL CONDITIONS AND DIMENSIONS INDICATED AND NOTIFY THE ARCHITECT OF ANY VARIATION PRIOR TO THE PURCHASING OF MATERIALS, FABRICATION OR CONSTRUCTION OF ANY ITEM.
- ALL REASONABLY INFERRED CONDITIONS NOT OTHERWISE INDICATED IN THESE CONSTRUCTION DOCUMENTS SHALL BE INTERPRETED AS HAVING THE SAME MEANING AS THOSE MOST SIMILARLY DETAILED AND MORE FULLY DEFINED ELSEWHERE WITHIN THESE DOCUMENTS. NOTIFY THE ARCHITECT IF CLARIFICATIONS ARE REQUIRED. THE CONTRACTOR SHALL BE LIABLE IF INAPPROPRIATE INTERPRETATIONS CONFLICT WITH OTHER ELEMENTS OF THE WORK.
- CLOSE AND SEAL ABANDONED OPENINGS TO MATCH EXISTING ADJACENT SURFACES WHERE MECHANICAL/PLUMBING/ELECTRICAL ITEMS ARE REMOVED.
- PROVIDE SLEEVED/FRAMED OPENINGS IN EXISTING CONSTRUCTION FOR INSTALLATION OF MECHANICAL/PLUMBING/ELECTRICAL ITEMS. PATCH TO MATCH ADJACENT SURFACES UPON COMPLETION.
- CONSULT STRUCTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING DRAWINGS FOR LOCATION OF OPENINGS OR RECESSES FOR EQUIPMENT, SUPPORTS, HEATERS, ELECTRICAL PANELS, AND PLUMBING FIXTURES.
- PROVIDE FRAMED SUPPORT FOR ALL LIGHTING FIXTURES, CONDUIT, DUCTS, AND MECH EQUIPMENT AS REQUIRED FOR COMPLETE SUPPORT AT 2-1/2 TIMES LOAD. COORDINATE LOCATION OF FIXTURES, CEILING DIFFUSERS, AND OTHER EQUIPMENT.
- SURFACED STREETS AND SURFACED PARKING AREAS SHALL BE MAINTAINED IN A CLEAN CONDITION -MUD AND DUST FREE-- AT ALL TIMES, AND, ADEQUATE MEANS SHALL BE PROVIDED TO CLEAN TRUCKS AND OTHER EQUIPMENT USING SURFACED STREETS AND PARKING AREAS.
- PROTECT EXISTING BUILDING FROM WEATHER DURING EXECUTION OF THE WORK; AND PROTECT EXISTING ADJACENT AREAS FROM DAMAGE DURING EXECUTION OF THE WORK. ALL ITEMS DAMAGED DURING THE WORK SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ADJACENT AREAS OF THE EXISTING FACILITY WILL REMAIN IN OPERATION WHILE WORK IS BEING DONE. ALL WORK SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE, AND SHALL BE SEQUENCED AND PERFORMED IN A MANNER TO MINIMIZE ANY IMPACT ON EXISTING FACILITY OPERATIONS.
- BUILDING ENVELOPE TO HAVE CONTINUOUS AIR BARRIER SEALED PER 2010 ASHRE 90.1 SECTION 5.4.3.1.2.

MAPS



BUILDING DATA

SEE DRAWING L5101 FOR BUILDING DATA

SYMBOLS

	BUILDING SECTION LETTER		COLUMN DESIGNATION
	SHEET WHERE DRAWN		
	SHEET WHERE CUT		
	SECTION NUMBER		
	DETAIL NUMBER		
MATERIALS			
	EARTH		METAL (LARGE SCALE)
	METAL (SMALL SCALE)		INSULATION (BATT OR LOOSE)
	GRAVEL		INSULATION (RIGID)
	CONCRETE		GYPNUM BOARD, CEMENT, GROUT
	BRICK		CERAMIC TILE, ACOUSTICAL TILE
	CONCRETE MASONRY UNIT		WOOD (FINISHED)
			WOOD (ROUGH)

PROJECT DESCRIPTION

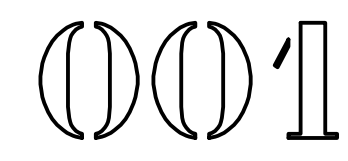
PRESENTLY FRIENDS MEETING HAS THREE BUILDINGS ON ITS SITE NORTH OF DUPONT CIRCLE. THESE BUILDINGS ARE NOT CONNECTED AND ARE AT DIFFERENT FLOOR ELEVATIONS. THE PROPOSED ADDITION PROVIDES THE CAMPUS WITH COMPLETE ACCESSIBILITY BOTH HORIZONTALLY AND VERTICALLY THROUGH A NEW CORRIDOR ALONG THE NORTH WALL AND A NEW LOBBY WITH AN ELEVATOR. MAJOR MATERIALS ARE STONE VENEER FOR THE ELEVATOR SHAFT AND NORTH BASE WALL AND GLASS OTHERWISE. THE ADDITION WILL HAVE A GREEN ROOF.

ADD ALT #1 DEMOLISH WALLS, CEILING AND FLOOR FINISH IN CHILDREN'S LIBRARY III & REAR HALLWAY I12 AND INCORPORATE INTO ASSEMBLY ROOM. REFINISH FLOOR, WALLS AND CEILING TO MATCH ASSEMBLY ROOM.

ADD ALT #1 ASSEMBLY ROOM WORK IS NOT IN CONTRACT.

INDEX OF DRAWINGS

001	COVER SHEET	STRUCTURAL	
EN1	DCRA ENERGY VERIFICATION SHEET	S101	FOUNDATION PLAN
		S102	FRAMING PLAN
		S201	GENERAL NOTES AND SCHEDULES
		S202	TYPICAL DETAILS
		S301	SECTIONS
		S501	SECTIONS
		LIFE SAFETY	
L5101	LIFE SAFETY PLAN		
		CIVIL	
			CIVIL WORK IS BEING PERMITTED SEPARATELY, REFER TO SUPPORTING DOCUMENTS.
C.001	GENERAL NOTE SHEET	SPRINKLER	
C1.01	EROSION AND SEDIMENT CONTROL PLAN PHASE I & II	SPI01	SPRINKLER PLANS
C1.02	EROSION AND SEDIMENT CONTROL DETAILS		
C1.03	SITE UTILITY AND GRADING PLAN	PLUMBING	
C1.04	STORM WATER PRE-PROJECT MAP	FO01	COVER SHEET
C1.05	STORM WATER POST-PROJECT MAP	F101	GROUND LEVEL FLOOR PLAN
C1.06	RETENTION DRAINAGE DIVIDE MAP	F301	PARTIAL PLANS / SANITARY AND WATER
C1.07	RETENTION AND DETENTION COMPUTATIONS		
C1.08	CISTERN COMPUTATIONS AND SPECIFICATIONS	MECHANICAL	
C1.09	GREEN ROOF COMPUTATIONS AND SPECIFICATIONS	M001	COVER SHEET
C1.10	DOEE FORMS	M101	GROUND FLOOR PLAN
C2.01	STORM PLAN AND PROFILE	M102	MEETING LEVEL PLAN
C5.01	STORM SEWER DETAILS	M103	ROOF PLAN
C5.02	STORM SEWER DETAILS	M501	DETAILS AND SCHEDULES
		M101	ADD ALT #1 ASSEMBLY ROOM DEMOLITION PLAN
		M102	ADD ALT #1 ASSEMBLY ROOM FLOOR PLAN
		M103	ADD ALT #1 ASSEMBLY ROOM DETAILS
		M104	ADD ALT #1 ASSEMBLY ROOM SCHEDULES
		ARCHITECTURAL	
A101	GROUND LEVEL DEMOLITION PLAN	ELECTRICAL	
A102	MEETING LEVEL DEMOLITION PLAN	E001	COVER SHEET
A103	GROUND LEVEL FLOOR PLAN	E101	DEMOLITION PLAN
A104	MEETING LEVEL FLOOR PLAN	E102	GROUND LEVEL LIGHTING PLAN
A105	ROOF / ATTIC PLAN	E103	MEETING LEVEL LIGHTING PLAN
A106	REFLECTED CEILING PLANS	E104	GROUND LEVEL POWER AND FIRE ALARM PLAN
A201	EXTERIOR ELEVATIONS	E105	MEETING AND ROOF LEVEL POWER AND FIRE ALARM PLAN
A301	SECTIONS AND DETAILS	E601	PANEL SCHEDULES AND DIAGRAMS
A302	SECTIONS AND DETAILS	E602	PANEL SCHEDULES
A303	SECTIONS AND DETAILS		
A401	PARTIAL PLANS AND DETAILS		
A402	PARTIAL PLANS AND DETAILS		
A403	INTERIOR ELEVATIONS / SECTIONS		
A404	INTERIOR ELEVATIONS / SECTIONS		
A405	INTERIOR ELEVATIONS / SECTIONS		
A501	DETAILS		
A601	DOOR SCHEDULE AND DETAILS		
A602	WINDOW / DOOR ASSEMBLY ELEVATIONS AND DETAILS		
A603	WINDOW / DOOR ASSEMBLY ELEVATIONS AND DETAILS		
A604	FINISH SCHEDULE AND DETAILS		
A701	ADD ALT #1 ASSEMBLY ROOM PLANS AND ELEVATIONS		
A102	ADD ALT #1 ASSEMBLY ROOM DETAILS		
		DRAWING TITLE	
		COVER SHEET	
		DRAWING NUMBER	



DATE: 05/01/18
TIME: 10:00 AM
SCALE: 1/8" = 1'-0"

Table with columns: 90.1-2010 Section #, Pre-Inspection Section Description, Prescriptive Code Value, Plan Value, Designer Identified Dwg Page, Plan Review, Field Insp.

Table with columns: 90.1-2010 Section #, Plumbing Rough-In Inspection, Prescriptive Code Value, Plan Value/Strategy, Designer Identified Dwg Page, Plan Review, Field Insp.

Table with columns: 90.1-2010 Section #, Mechanical Rough-In Inspection, Prescriptive Code Value, Plan Value/Strategy, # Systems, Designer Identified Dwg Page, Plan Review, Field Insp.

Table with columns: 90.1-2010 Section #, Electrical Rough-In Inspection, Prescriptive Code Value, Plan Value/Strategy, Designer Identified Dwg Page, Plan Review, Field Insp.

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Table with columns: 90.1-2010 Section #, Foundation Inspections, Prescriptive Code Value, Plan Value, Identified Dwg Page, Plan Review, Field Insp.

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Table with columns: 90.1-2010 Section #, Mechanical Rough-In Inspection, Prescriptive Code Value, Plan Value/Strategy, # Systems, Designer Identified Dwg Page, Plan Review, Field Insp.

Table with columns: 90.1-2010 Section #, Electrical Rough-In Inspection, Prescriptive Code Value, Plan Value/Strategy, Designer Identified Dwg Page, Plan Review, Field Insp.

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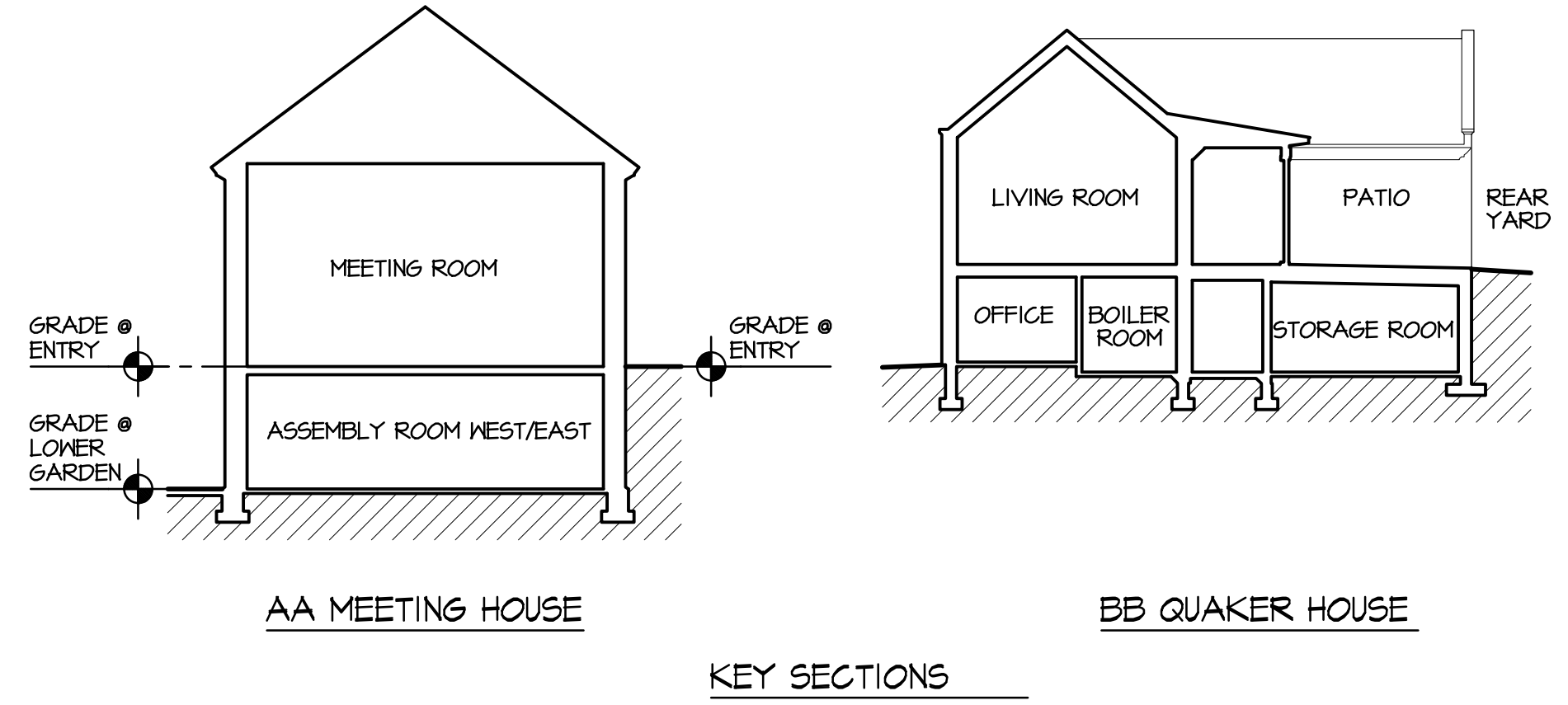
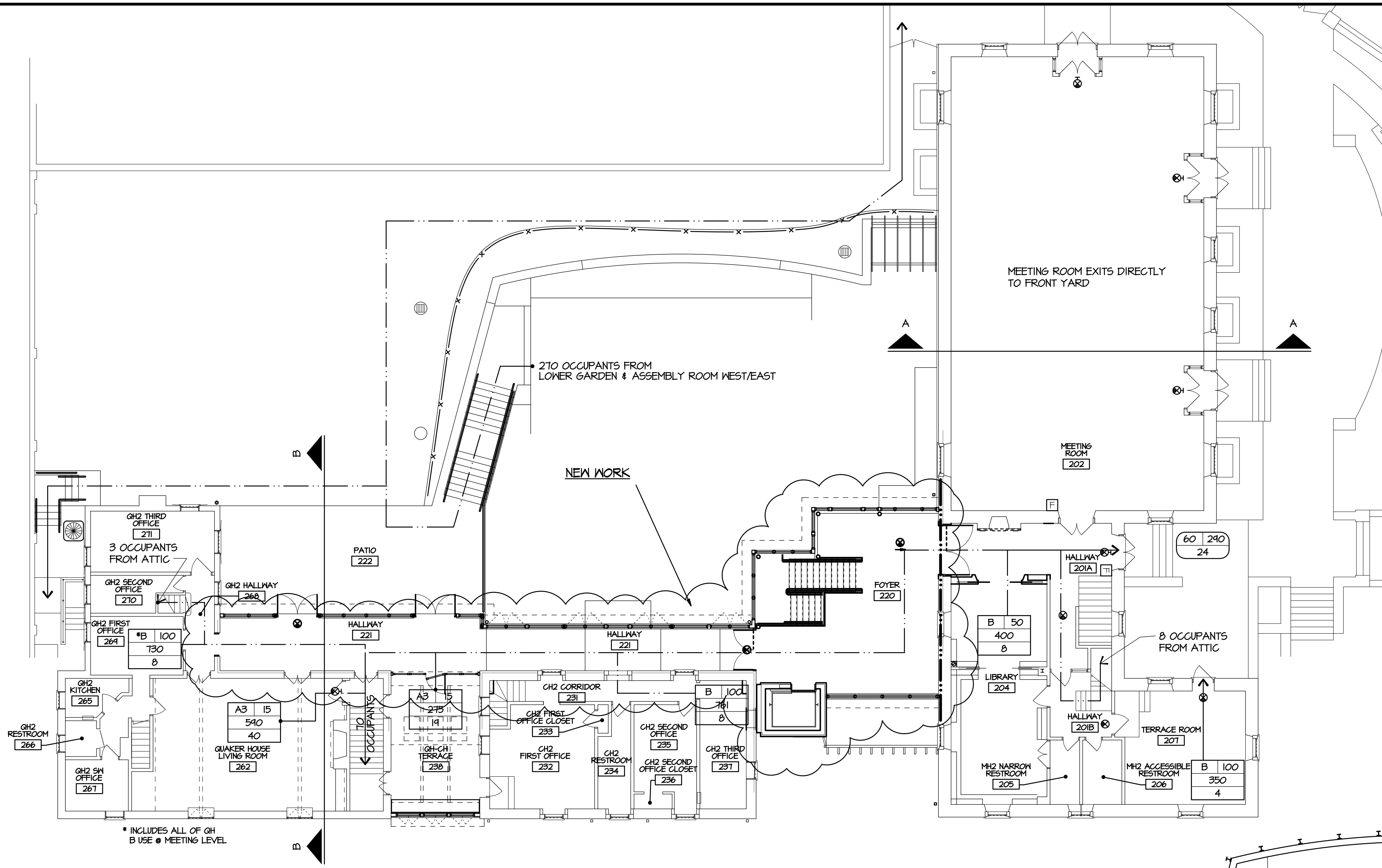
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Table with columns: 90.1-2010 Section #, Mechanical Rough-In Inspection, Prescriptive Code Value, Plan Value/Strategy, # Systems, Designer Identified Dwg Page, Plan Review, Field Insp.

Table with columns: 90.1-2010 Section #, Electrical Rough-In Inspection, Prescriptive Code Value, Plan Value/Strategy, Designer Identified Dwg Page, Plan Review, Field Insp.

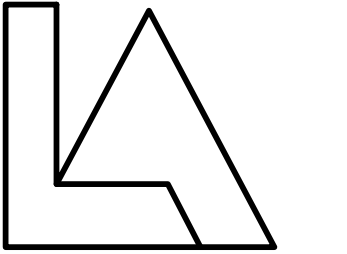
Table with columns: 90.1-2010 Section #, Final Inspection, Prescriptive Code Value, Plan Value/Strategy, Designer Identified Dwg Page, Plan Review, Field Insp.

This Energy Verification Sheet is based on DOE's Score and Spreadsheet and was adapted to fit the 2013 DC Energy Conservation Code. This verification sheet does not replace the 2013 DC ECC or ASHRAE 90.1-2010 and is included for DCRA to verify significant requirements during permitting and inspection.



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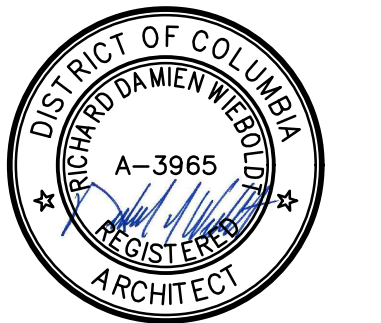
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PROJECT TITLE

FRIENDS MEETING
OF WASHINGTON

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WASHINGTON, DC



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REVISIONS

NO.	DATE	DESCRIPTION
1	5-4-2010	CONSTRUCTION SET

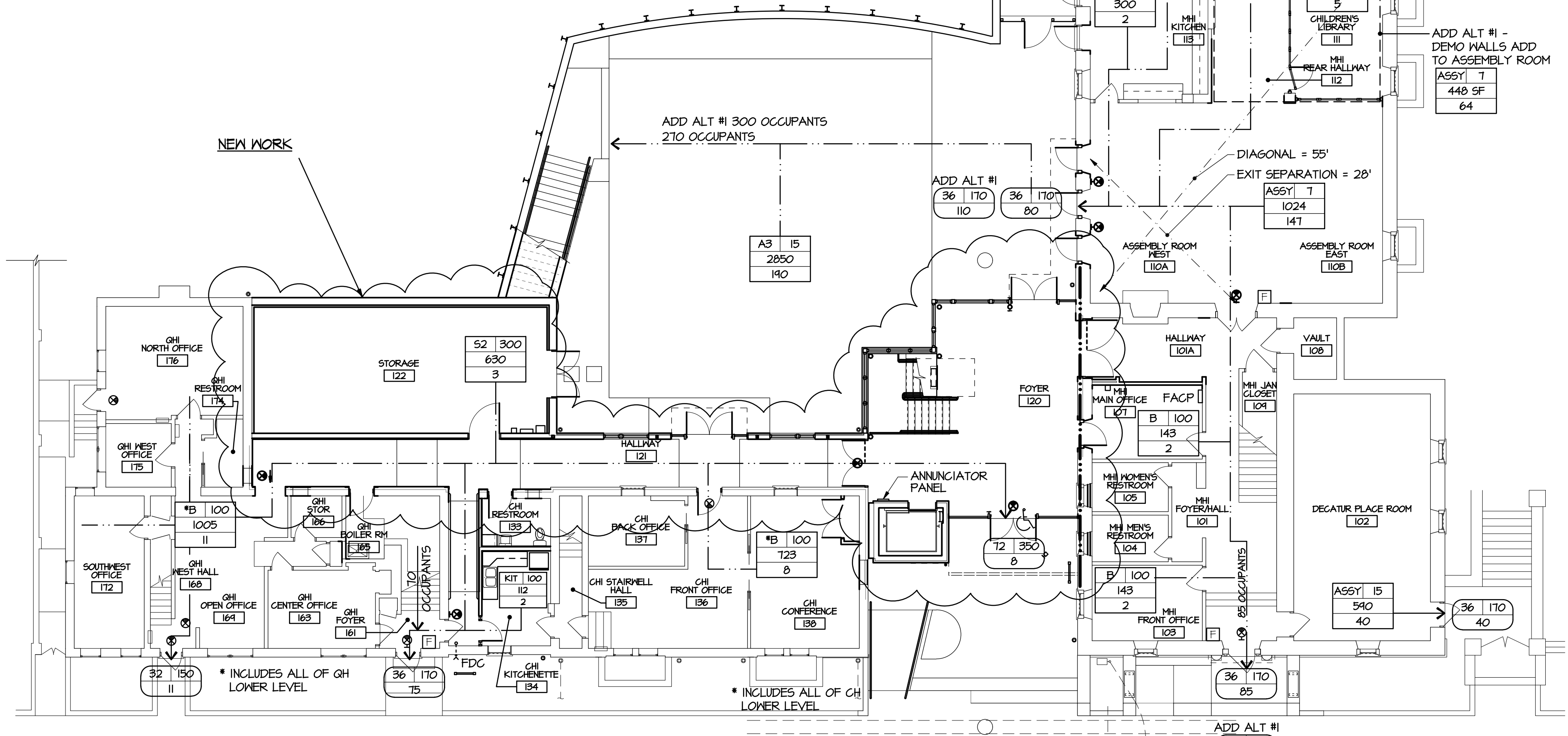
DRAWN
CHECKED
DATE 12-1-2017 BID SET

DRAWING TITLE

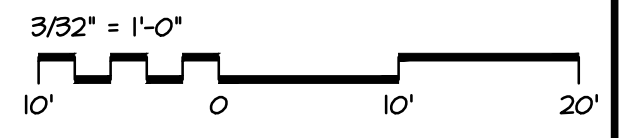
LIFE SAFETY
LIFE SAFETY PLAN

DRAWING NUMBER

LS101



GROUND LEVEL LIFE SAFETY PLAN
3/32" = 1'-0"



MEETING LEVEL LIFE SAFETY PLAN

3/32" = 1'-0"

- LEGEND:**
- LOBBY ROOM DESIGNATION
 - ROOM NUMBER
 - SQUARE FEET PER OCCUPANT (GROSS/NET)
 - OCCUPANCY TYPE
 - SPACE SQUARE FEET (GROSS/NET)
 - NUMBER OF OCCUPANTS
 - EGRESS OCCUPANT LOAD DESIGNATION
 - EGRESS WIDTH (INCHES)
 - EGRESS CAPACITY
 - ANTICIPATED LOAD
 - EXIT SIGNS
 - EGRESS TRAVEL DISTANCE
 - ACCESSIBLE ENTRANCE / EXIT
 - 2 HR FIRE ASSEMBLY

- APPLICABLE CODES**
- REVIEWED PER: 2012 INT. BUILDING CODE (ADDITION)
2012 EXISTING BUILDING CODE
2013 DC CONSTRUCTION CODES
2011 NEC
2010 ADA STANDARDS
- USE GROUP CLASSIFICATION**
- A-3; W AUXILIARY B
- CONSTRUCTION CLASSIFICATION**
- III B
ALLOWABLE HEIGHT: 2 STORIES (ABOVE GRADE PLANE)
PROPOSED HEIGHT: 1 STORY (ABOVE GRADE PLANE)
ALLOWABLE AREA: 4500 SF (MOST RESTRICTIVE A3)
PROPOSED AREA: 4100 GSF @ MEETING LEVEL
10,140 GSF @ GROUND LEVEL
- NOTE: LOWER LEVEL IS BELOW THE GRADE PLANE. REFER TO KEY SECTIONS.
- YEAR OF ORIGIN**
- MEETING HOUSE 1925
RESIDENTIAL STRUCTURES 1920
- FIRE PROTECTION (NOT REQ'D)**
- BUSINESS AREA AND NEW CONSTRUCTION:
PARTIAL SPRINKLER SYSTEM TO BE INSTALLED
SYSTEM TO BE COMPLETED UPON FUTURE RENOVATION
MEETING HOUSE: NOT SPRINKLED
- PLUMBING FIXTURE COUNT**
- EXISTING FIXTURES TO REMAIN
- ADDITIONAL FIXTURES:**
- ONE ACCESSIBLE RESTROOM:
-ONE ADA-COMPLIANT WATER CLOSET
-ONE ADA-COMPLIANT LAVATORY

DATE: 02/10/18 TIME: 10:05:52
SCALE: 3/32" = 1'-0"

GENERAL DEMOLITION NOTES:

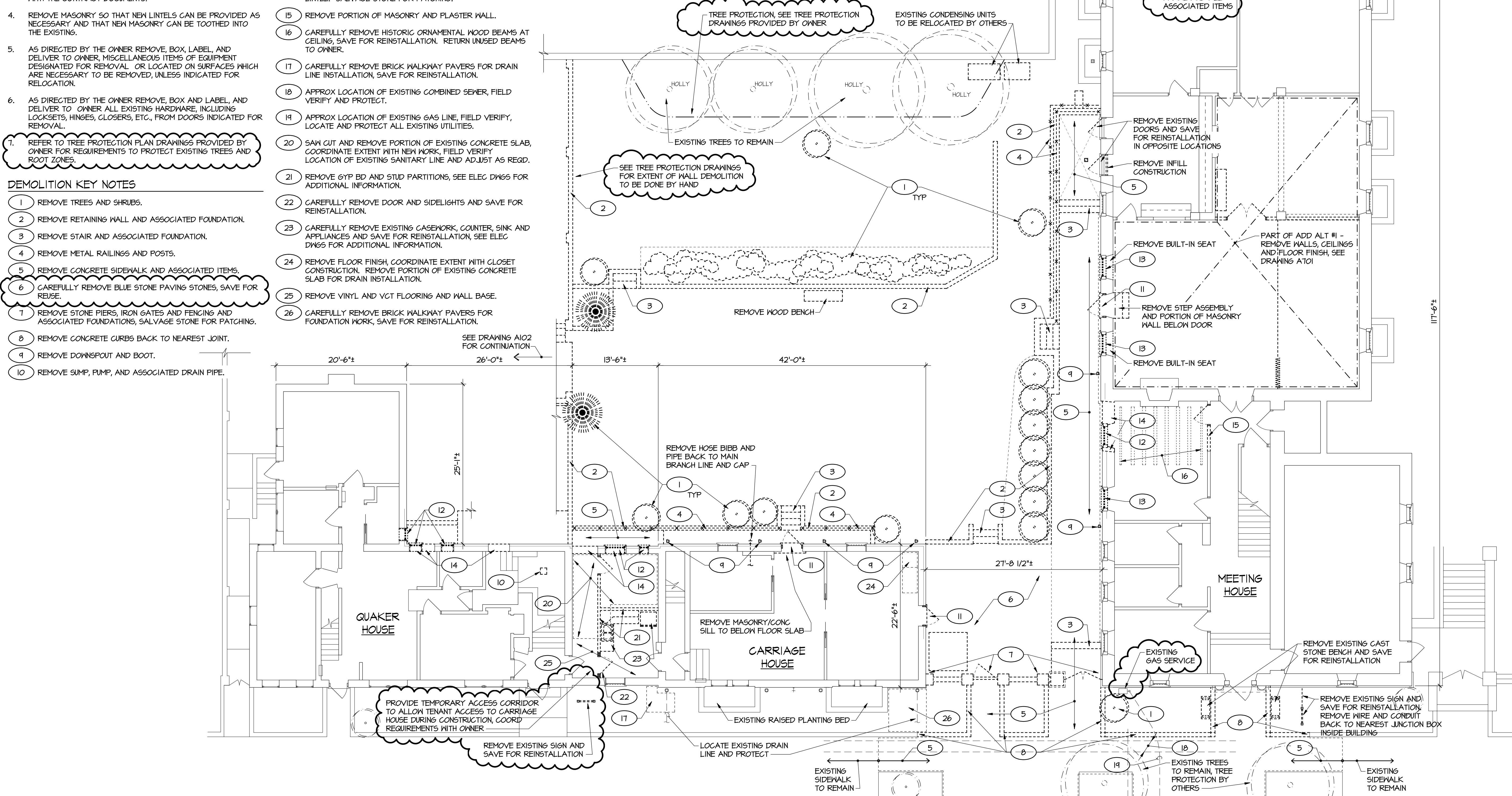
- THIS PLAN IS NOT A COMPLETE REPRESENTATION OF ALL THE EXISTING CONDITIONS. THIS PLAN IS SCHEMATIC IN NATURE AND INTENDS TO SHOW THE GENERAL EXTENT AND LAYOUT OF THE EXISTING FACILITY.
- REMOVE EXISTING CONSTRUCTION CLEANLY AND LEAVE EXISTING CONSTRUCTION TO REMAIN READY TO RECEIVE NEW WORK.
- REMOVE EXISTING CONSTRUCTION, INCLUDING MECHANICAL, PLUMBING, ELECTRICAL WORK ETC., AS NECESSARY AND WHEREVER NECESSARY TO PROVIDE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- REMOVE MASONRY SO THAT NEW LINTELS CAN BE PROVIDED AS NECESSARY AND THAT NEW MASONRY CAN BE TOOTHED INTO THE EXISTING.
- AS DIRECTED BY THE OWNER REMOVE, BOX, LABEL, AND DELIVER TO OWNER MISCELLANEOUS ITEMS OF EQUIPMENT DESIGNATED FOR REMOVAL OR LOCATED ON SURFACES WHICH ARE NECESSARY TO BE REMOVED, UNLESS INDICATED FOR RELOCATION.
- AS DIRECTED BY THE OWNER REMOVE, BOX AND LABEL, AND DELIVER TO OWNER ALL EXISTING HARDWARE, INCLUDING LOCKSETS, HINGES, CLOSERS, ETC., FROM DOORS INDICATED FOR REMOVAL.

DEMOLITION KEY NOTES

- REMOVE TREES AND SHRUBS.
- REMOVE RETAINING WALL AND ASSOCIATED FOUNDATION.
- REMOVE STAIR AND ASSOCIATED FOUNDATION.
- REMOVE METAL RAILINGS AND POSTS.
- REMOVE CONCRETE SIDEWALK AND ASSOCIATED ITEMS.
- CAREFULLY REMOVE BLUE STONE PAVING STONES, SAVE FOR REUSE.
- REMOVE STONE PIERS, IRON GATES AND FENCING AND ASSOCIATED FOUNDATIONS, SALVAGE STONE FOR PATCHING.
- REMOVE CONCRETE CURBS BACK TO NEAREST JOINT.
- REMOVE DOWNSPOUT AND BOOT.
- REMOVE SUMP, PUMP, AND ASSOCIATED DRAIN PIPE.

DEMOLITION KEY NOTES CONTINUED

- REMOVE DOOR, FRAME AND ALL ASSOCIATED ITEMS, PREPARE OPENING TO RECEIVE NEW WORK.
- REMOVE WINDOW, FRAME AND ALL ASSOCIATED ITEMS, PREPARE OPENING TO RECEIVE NEW WORK.
- REMOVE WINDOW AND PORTION OF MASONRY WALL BELOW, PREPARE OPENING TO RECEIVE NEW WORK.
- REMOVE PORTION OF MASONRY WALL. TEMPORARILY SHORE WALL ABOVE UNTIL LOAD HAS BEEN TRANSFERRED TO NEW LINTEL. SALVAGE STONE FOR PATCHING.
- REMOVE PORTION OF MASONRY AND PLASTER WALL.
- CAREFULLY REMOVE HISTORIC ORNAMENTAL WOOD BEAMS AT CEILING, SAVE FOR REINSTALLATION. RETURN UNUSED BEAMS TO OWNER.
- CAREFULLY REMOVE BRICK WALKWAY PAVERS FOR DRAIN LINE INSTALLATION, SAVE FOR REINSTALLATION.
- APPROX LOCATION OF EXISTING COMBINED SEWER, FIELD VERIFY AND PROTECT.
- APPROX LOCATION OF EXISTING GAS LINE, FIELD VERIFY, LOCATE AND PROTECT ALL EXISTING UTILITIES.
- SAW CUT AND REMOVE PORTION OF EXISTING CONCRETE SLAB, COORDINATE EXTENT WITH NEW WORK, FIELD VERIFY LOCATION OF EXISTING SANITARY LINE AND ADJUST AS REQD.
- REMOVE GYP BD AND STUD PARTITIONS, SEE ELEC DWGS FOR ADDITIONAL INFORMATION.
- CAREFULLY REMOVE DOOR AND SIDELIGHTS AND SAVE FOR REINSTALLATION.
- CAREFULLY REMOVE EXISTING CASEWORK, COUNTER, SINK AND APPLIANCES AND SAVE FOR REINSTALLATION, SEE ELEC DWGS FOR ADDITIONAL INFORMATION.
- REMOVE FLOOR FINISH, COORDINATE EXTENT WITH CLOSET CONSTRUCTION. REMOVE PORTION OF EXISTING CONCRETE SLAB FOR DRAIN INSTALLATION.
- REMOVE VINYL AND VCT FLOORING AND WALL BASE.
- CAREFULLY REMOVE BRICK WALKWAY PAVERS FOR FOUNDATION WORK, SAVE FOR REINSTALLATION.



GROUND LEVEL DEMOLITION PLAN
 1/8" = 1'-0"

DEMOLITION LEGEND:

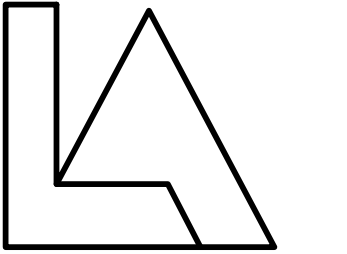
- PARTITION / CONSTRUCTION TO REMAIN
- DOOR AND FRAME TO REMAIN
- - - - - REMOVE PARTITION / CONSTRUCTION
- - - - - REMOVE DOOR AND FRAME
- - - - - REMOVE PARTITION, DOOR AND FRAME

DATE: 05/01/18
 TIME: 10:00:25
 FILE: 640-AD1
 SCALE: 1/8" = 1'-0"
 DATE: 05/01/18
 TIME: 15:41:25
 FILE: 640-AD1
 SCALE: 1/8" = 1'-0"



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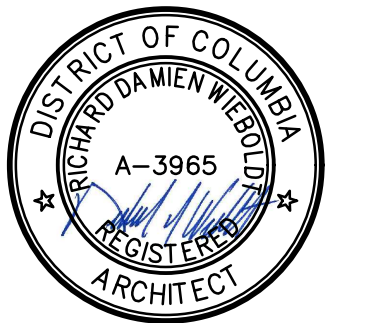
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CHECKED: RDW

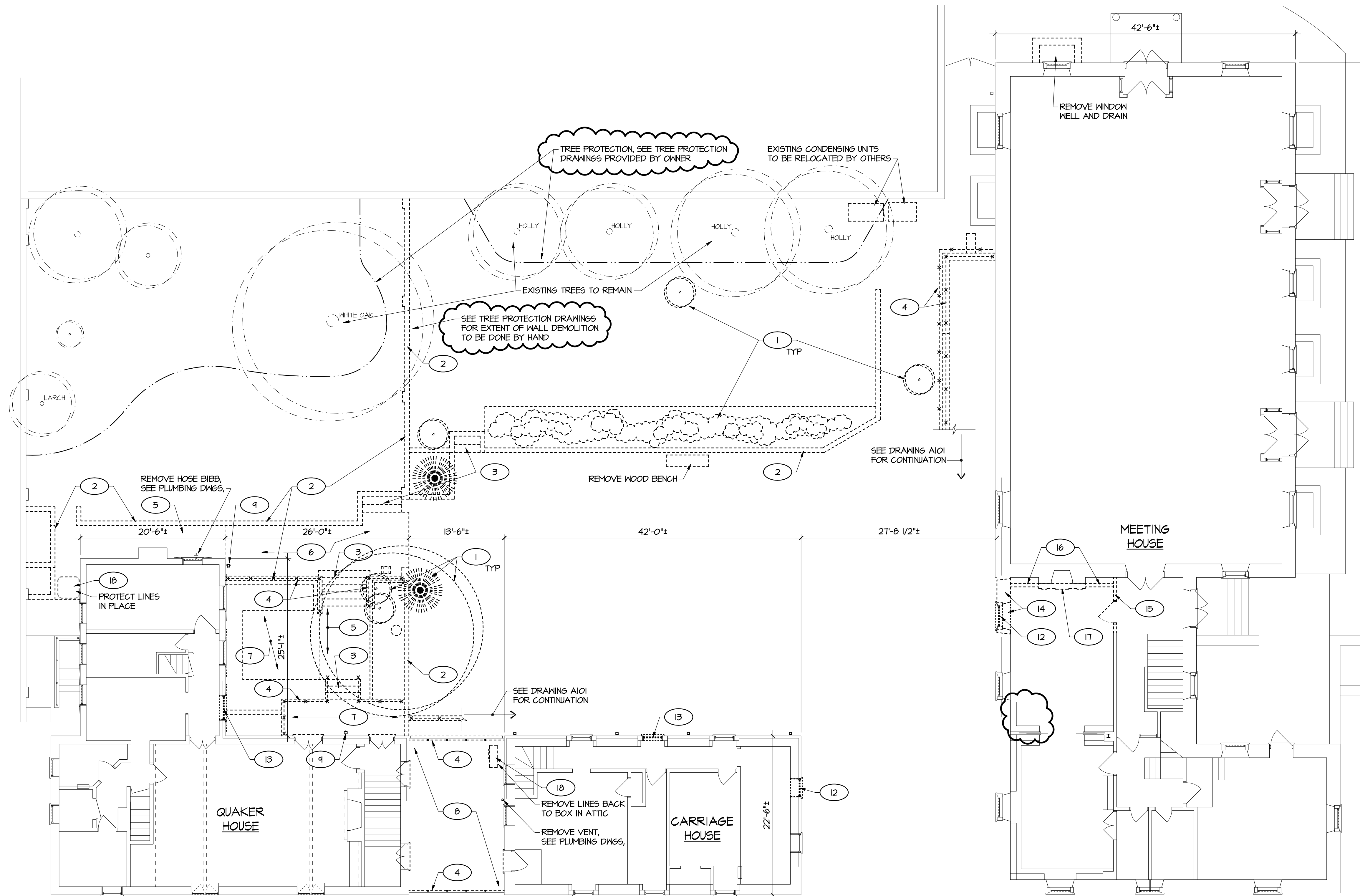
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**ARCHITECTURAL
GROUND LEVEL
DEMOLITION PLAN**

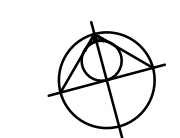
DRAWING NUMBER

A101



DEMOLITION KEY NOTES

- | | |
|--|---|
| 1 REMOVE TREES AND SHRUBS. | 11 NOT USED. |
| 2 REMOVE RETAINING WALL AND ASSOCIATED FOUNDATION. | 12 REMOVE WINDOW FRAME AND ALL ASSOCIATED ITEMS, PREPARE OPENING TO RECEIVE NEW WORK. |
| 3 REMOVE STAIR AND ASSOCIATED FOUNDATION. | 13 REMOVE WINDOW AND PORTION OF MASONRY WALL BELOW, PREPARE OPENING TO RECEIVE NEW WORK. |
| 4 REMOVE METAL RAILINGS AND POSTS. | 14 REMOVE PORTION OF MASONRY WALL. TEMPORARILY SHORE WALL ABOVE UNTIL LOAD HAS BEEN TRANSFERRED TO NEW LINTEL. |
| 5 REMOVE CONCRETE SIDEWALK AND ASSOCIATED ITEMS. | 15 REMOVE PORTION OF MASONRY AND PLASTER WALL. |
| 6 CAREFULLY REMOVE BLUE STONE PAVING STONES, SAVE AND RETURN TO OWNER. | 16 REMOVE BUILT-IN BOOK SHELVES AND ASSOCIATED ITEMS. |
| 7 REMOVE BRICK PATIO AND ASSOCIATED ITEMS. | 17 CAREFULLY REMOVE FIREPLACE MANTEL AND SAVE FOR REINSTALLATION. |
| 8 REMOVE WOOD DECK ASSEMBLY, ROOF MEMBRANE, AND ROOF STRUCTURE COMPLETELY. PROTECT EXTERIOR WALLS BELOW AND PREPARE AREA TO RECEIVE NEW WORK. FIELD VERIFY ALL EXISTING CONDITIONS AND ACTIVE UTILITIES. COORDINATE REQUIREMENTS WITH OWNER. | 18 CAREFULLY REMOVE EXISTING CONDENSING UNIT AND SAVE FOR REINSTALLATION. SEE MECH DWGS FOR ADDL INFO. COORD REQUIREMENTS WITH OWNER. |
| 9 REMOVE DOWNSPOUT AND BOOT. | |
| 10 NOT USED. | |



MEETING LEVEL DEMOLITION PLAN

1/8" = 1'-0"
 5' 0' 5' 10' 15'

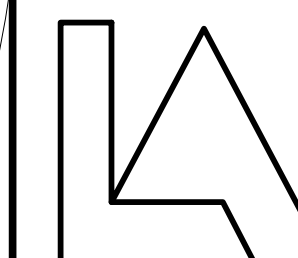
PLAN NOTES:

- SEE DRAWING A101 FOR GENERAL DEMOLITION NOTES AND DEMOLITION LEGEND.



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ARCHITECTURAL
MEETING LEVEL
DEMOLITION PLAN

DRAWING NUMBER

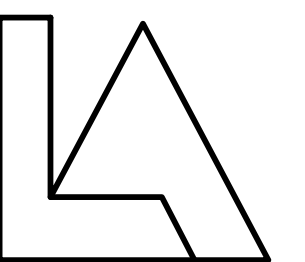
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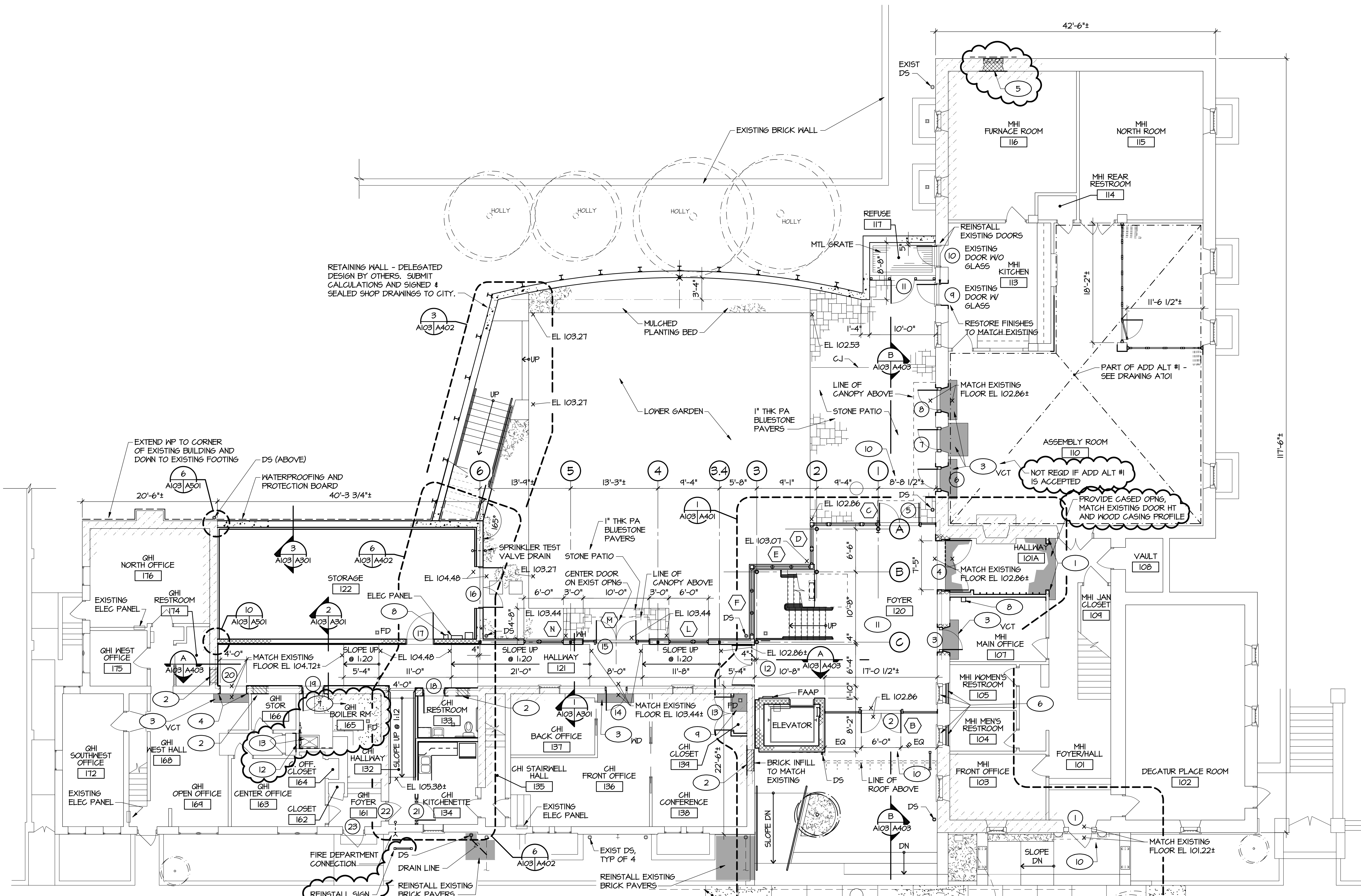
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ARCHITECTURAL

GROUND LEVEL
FLOOR PLAN

DRAWING NUMBER

A103

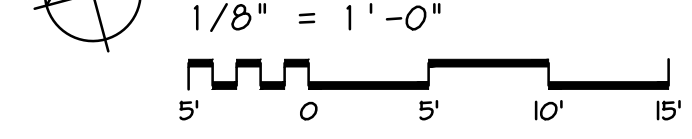


KEY NOTES

- 1 PATCH EXISTING WALLS TO MATCH EXISTING FINISHES. PROVIDE SMOOTH TRANSITIONS. PROVIDE MISC WOOD TRIM TO MATCH EXISTING, COORDINATE AND MATCH EXISTING PROFILES.
- 2 INFILL OPENING IN MASONRY WALL TO MATCH EXISTING CONSTRUCTION AND FINISHES. PROVIDE SMOOTH TRANSITIONS. PROVIDE MISC WOOD TRIM TO MATCH EXISTING, COORDINATE AND MATCH EXISTING PROFILES.
- 3 PATCH FLOOR FINISH TO MATCH EXISTING.
- 4 WIDEN OPENING AND EXTEND TO FLOOR. PATCH MASONRY AND TOOTH INTO EXISTING JOINT PATTERN. MATCH EXISTING FINISHES. PROVIDE MISC WOOD TRIM TO MATCH EXISTING, COORDINATE AND MATCH EXISTING PROFILES.
- 5 INFILL OPENING IN MASONRY WALL AND PATCH ALL HOLES TO MATCH EXISTING CONSTRUCTION. PROVIDE WATERPROOFING ON EXTERIOR WHERE WINDOW WELL IS REMOVED.
- 6 PROVIDE OPAQUE FILM ON EXISTING WINDOW AND GYP BD INFILL. SEE DETAIL 6/A501.
- 7 FILL PIT WITH COMPACTED GRAVEL AND PROVIDE 5" THK CONG SLAB OVER VAPOR BARRIER. MATCH EXISTING FLOOR ELEVATION AND PROVIDE SMOOTH TRANSITION INTO EXISTING.
- 8 LOW VOLTAGE TRANSFORMERS FOR LIGHTING. SEE ELECTRICAL DRAWINGS.
- 9 PATCH CONG SLAB, PROVIDE SMOOTH TRANSITIONS INTO EXISTING.
- 10 REMOVE DOOR BELL BUTTON LOCATED AT DOOR 1. PROVIDE DOOR BELL BUTTON AT DOOR 2 AND DOOR 5. LOCATION TBD. WIRE DOOR BELL BUTTONS INTO EXISTING DOOR BELL SYSTEM IN MEETING HOUSE.
- 11 FOYER TO BE MODERATELY TEMPERED AND ACT AS VESTIBULE SEPARATING MAIN BUILDING AND HALLWAYS. AREA IS LESS THAN 1000 SF. 5.4.3.4 EXCEPTION F.

- 12 PROVIDE PARTITION - 5/8" GYP BD ON 2x4 WD STUDS @ 16" OC TO UNDERSIDE OF CEILING. PROVIDE SOUND ATTENUATION BLANKET TO FILL STUD SPACE.
- 13 PROVIDE FLOOR MOP SINK, MOP AND BROOM HOLDER, AND 40" HIGH FIBER REINFORCED PANELS. EXTEND PANELS 40" FROM CORNER AND PROVIDE EDGE TRIM.

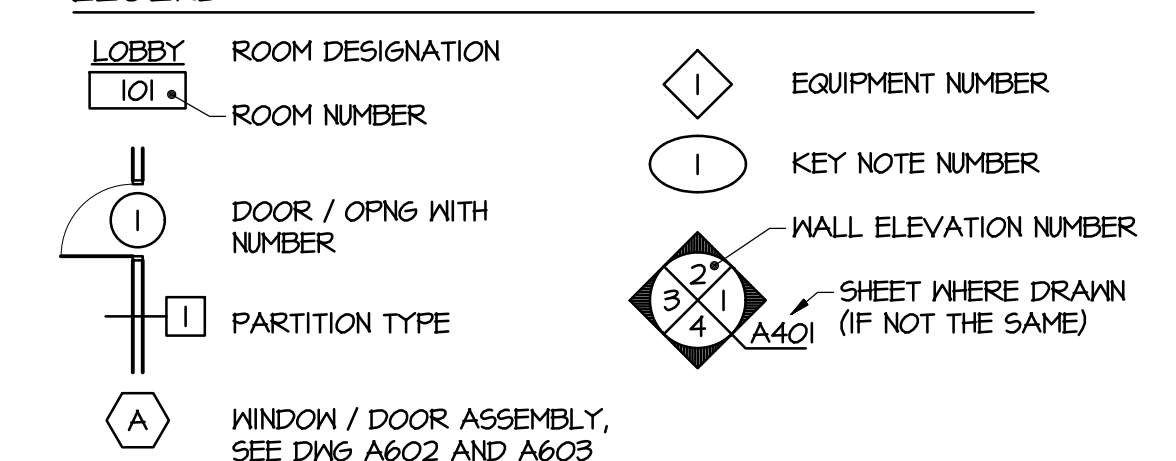
GROUND LEVEL FLOOR PLAN



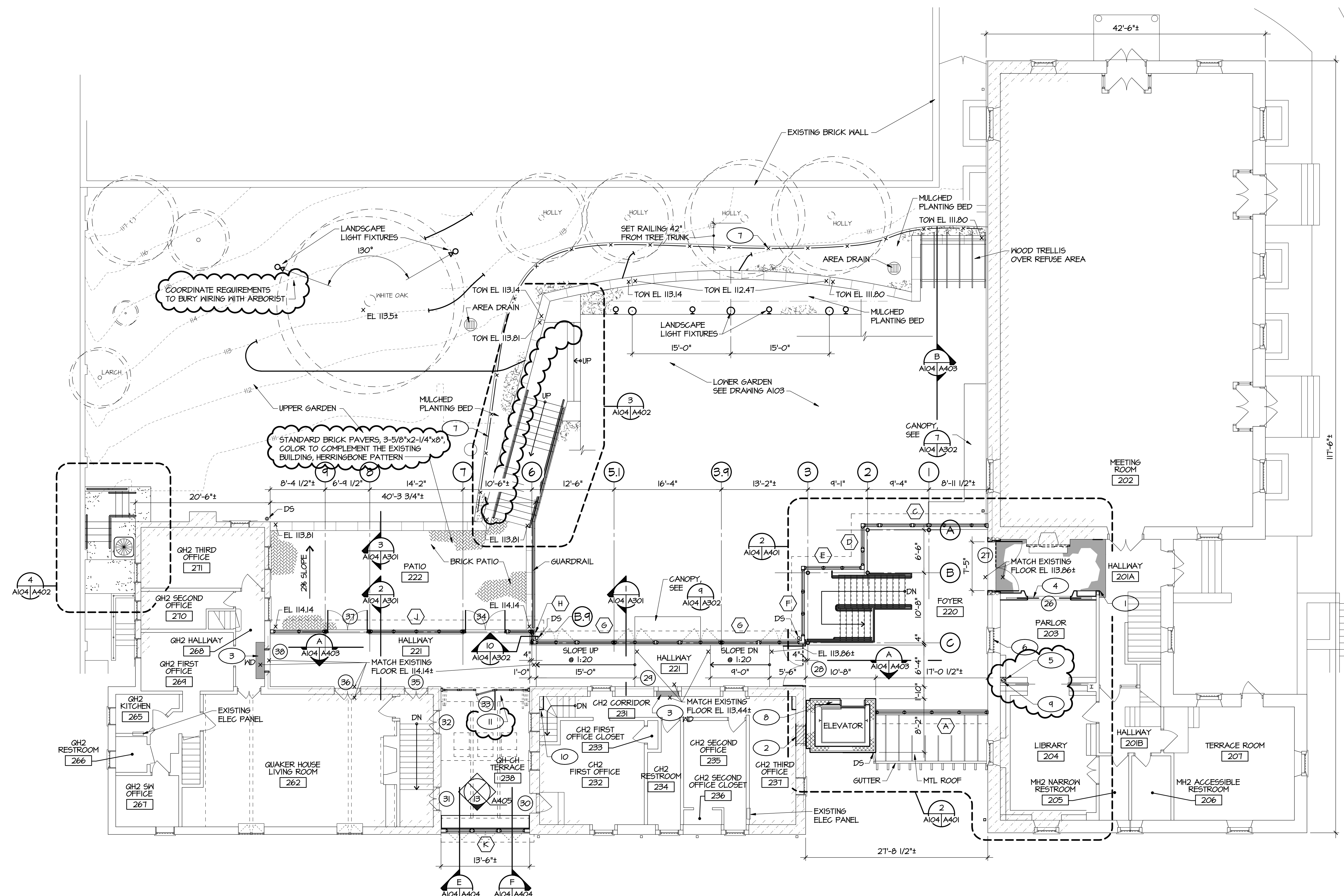
GLAZING RATIO

WALL AREA 1ST FLOOR:	3240 SF
WALL AREA 2ND FLOOR:	2610 SF
FLOOR AREA TOTAL:	5850 SF
WINDOW AREA TOTAL:	1566 SF
PERCENTAGE:	26%

LEGEND:



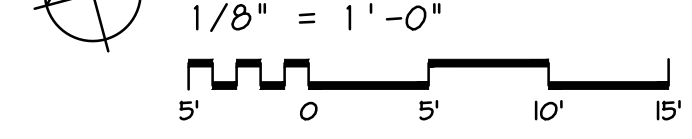
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 SCALE: 1/8" = 1'-0"



KEY NOTES

- 1 PATCH EXISTING WALLS TO MATCH EXISTING FINISHES, PROVIDE SMOOTH TRANSITIONS. PROVIDE MISC WOOD TRIM TO MATCH EXISTING, COORDINATE AND MATCH EXISTING PROFILES.
- 2 INFILL OPENING IN MASONRY WALL TO MATCH EXISTING CONSTRUCTION AND FINISHES, PROVIDE SMOOTH TRANSITIONS. PROVIDE MISC WOOD TRIM TO MATCH EXISTING, COORDINATE AND MATCH EXISTING PROFILES.
- 3 PATCH FLOOR FINISH TO MATCH EXISTING.
- 4 PROVIDE POCKET DOORS TO MATCH EXISTING POCKET DOORS.
- 5 PROVIDE WOOD PANELS TO ENCLOSE DUCT AT TOP OF EXISTING SHELVING, PAINT TO MATCH EXISTING SHELF.
- 6 PROVIDE 2 HR FIRE RATED GLASS ON INSIDE OF WINDOW. SET PERIMETER CHANNEL INTO EXISTING PLASTER, SEE DETAIL 9/A501.
- 7 42" HIGH CABLE RAIL (W/RAIL OR EQUAL); 2"x2" BLACK POWDER COATED POSTS @ 48" OC MAX (SET POSTS IN CONC BASE), 1/4" 2-1/2" SST TOP RAIL AND 5/32" SST CABLE INFILL @ 4" OC MAX
- 8 ELEVATOR CONTROLLER LOCATION, COORDINATE REQUIREMENTS WITH ELEVATOR MANUFACTURER.
- 9 TOILET ROOM EXHAUST DUCT FROM BELOW, RUN IN CORNER SPACE BEHIND EXISTING SHELVING.
- 10 LOCATE MECH AND PLUGS ITEMS CLOSE TO CORNER. OPEN WALL AND LOCATE IN WALL CAVITY, IF NOT POSSIBLE PROVIDE GYP BD FURG TO ENCLOSE. MODIFY STAIR HANDRAIL AS REQD AND PROVIDE WD TRIM TO MATCH EXISTING.
- 11 FOLDING WALL ASSEMBLY, INSTALL PER MFR'S RECOMMENDATIONS, SEE A/A403 FOR ELEVATION, SEE A604 FOR ADDITIONAL INFORMATION.

MEETING LEVEL FLOOR PLAN



PLAN NOTES:

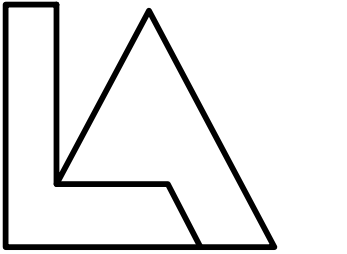
- 1. SEE DRAWING A103 FOR LEGEND.

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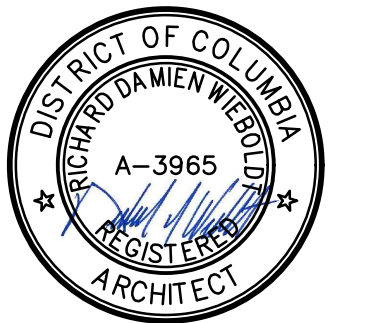
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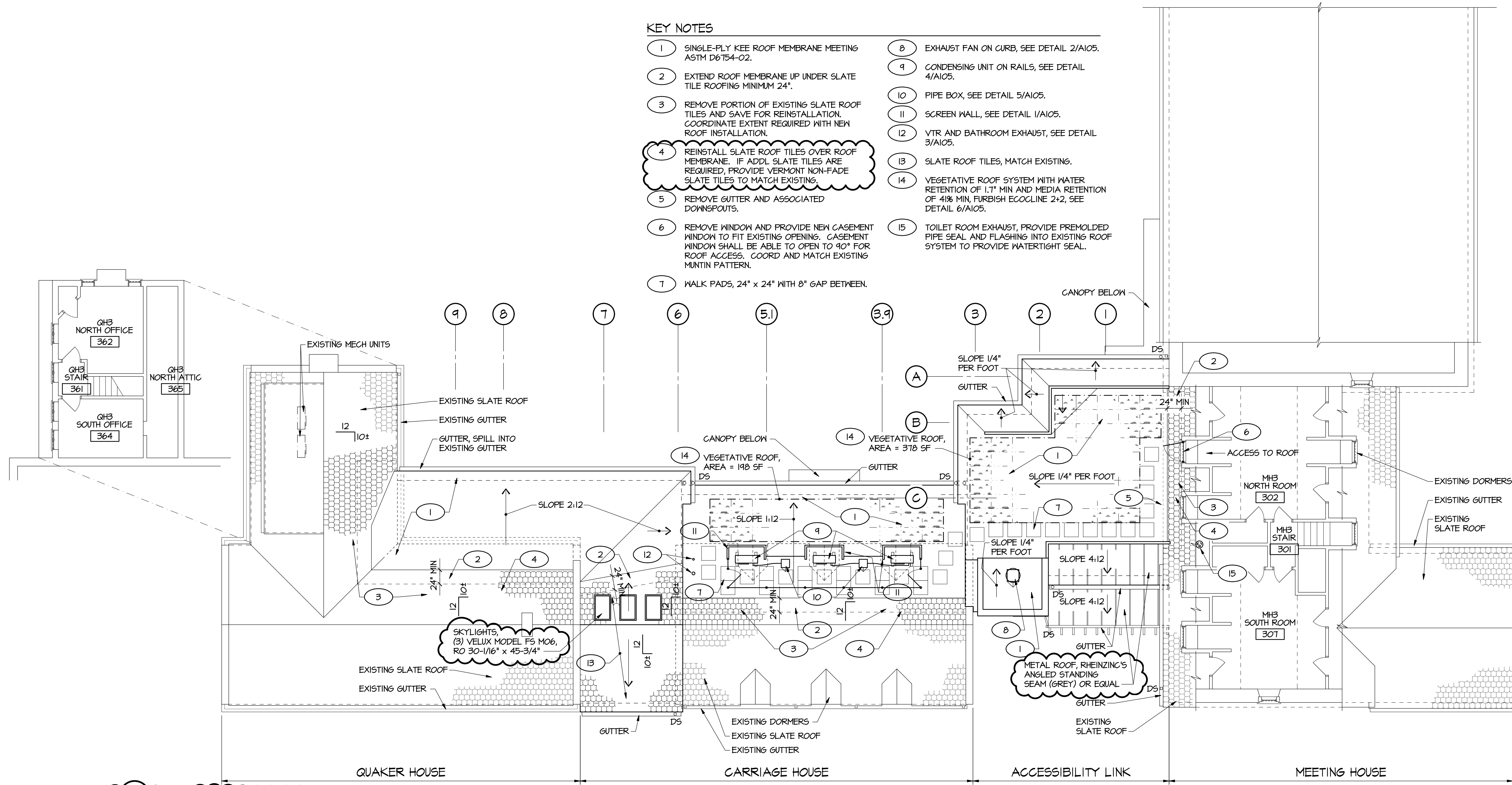
ARCHITECTURAL
MEETING LEVEL
FLOOR PLAN

DRAWING NUMBER

A104

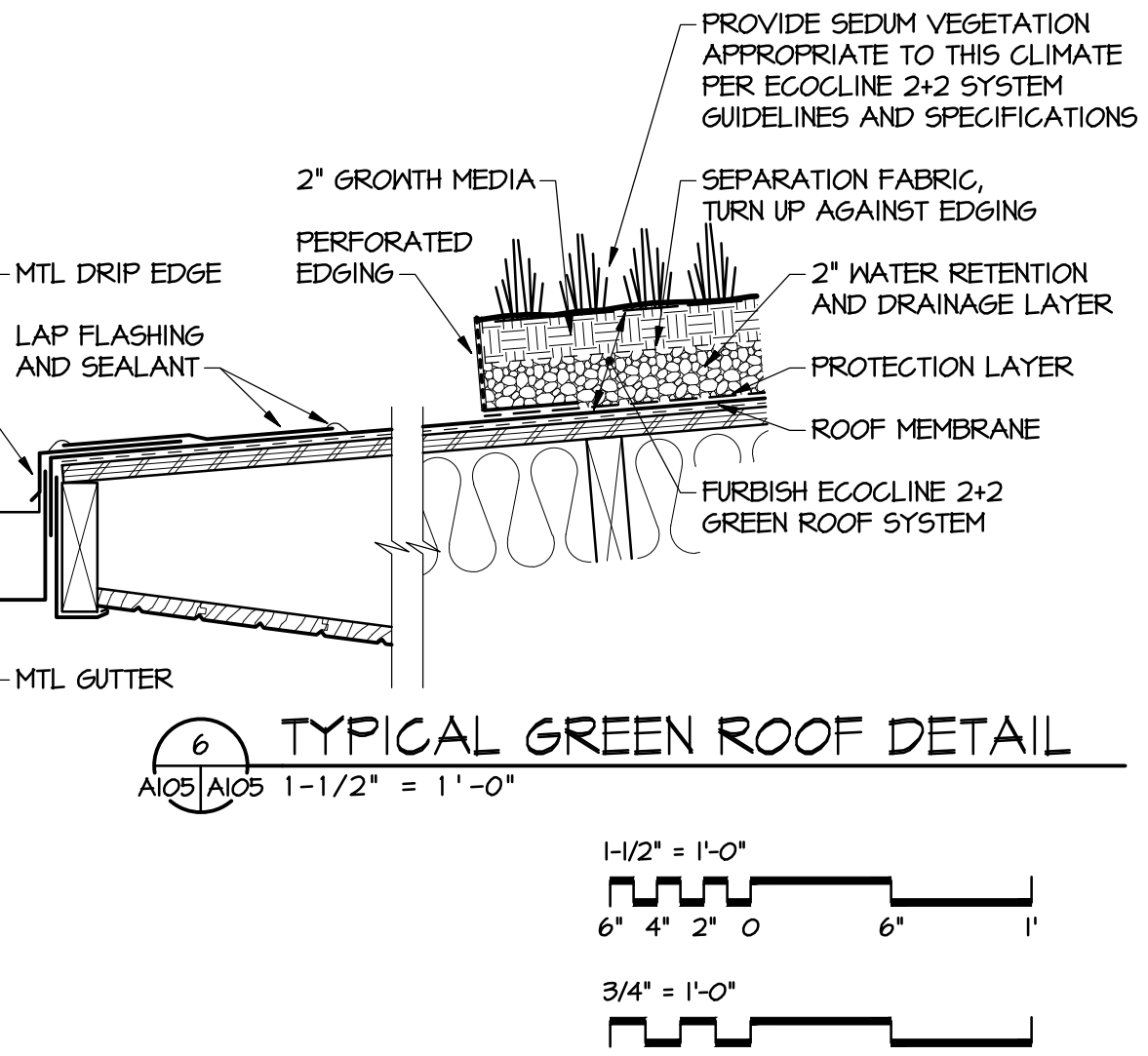
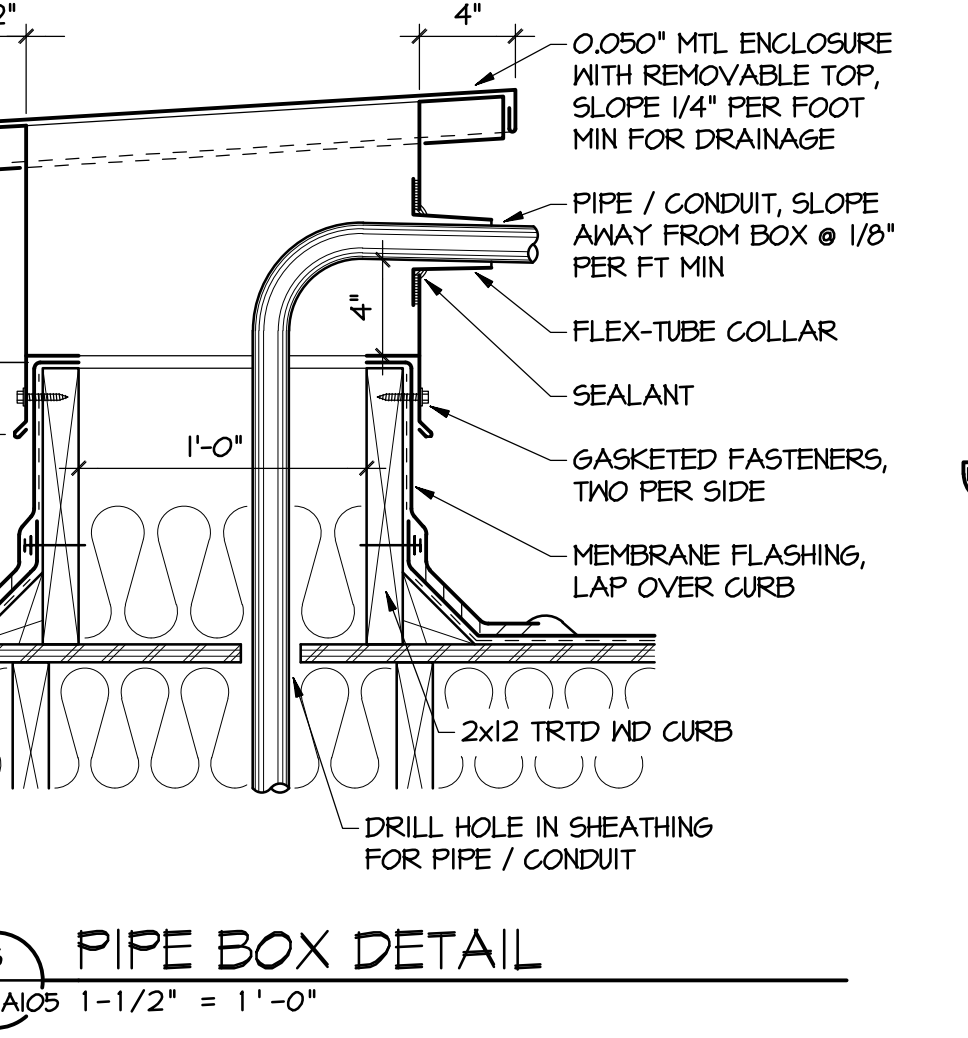
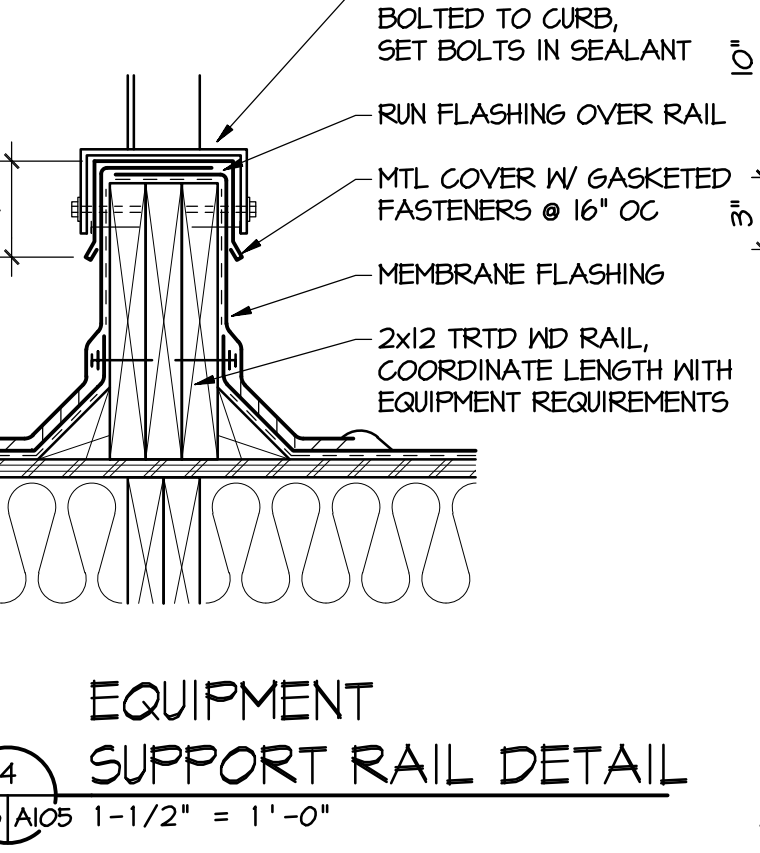
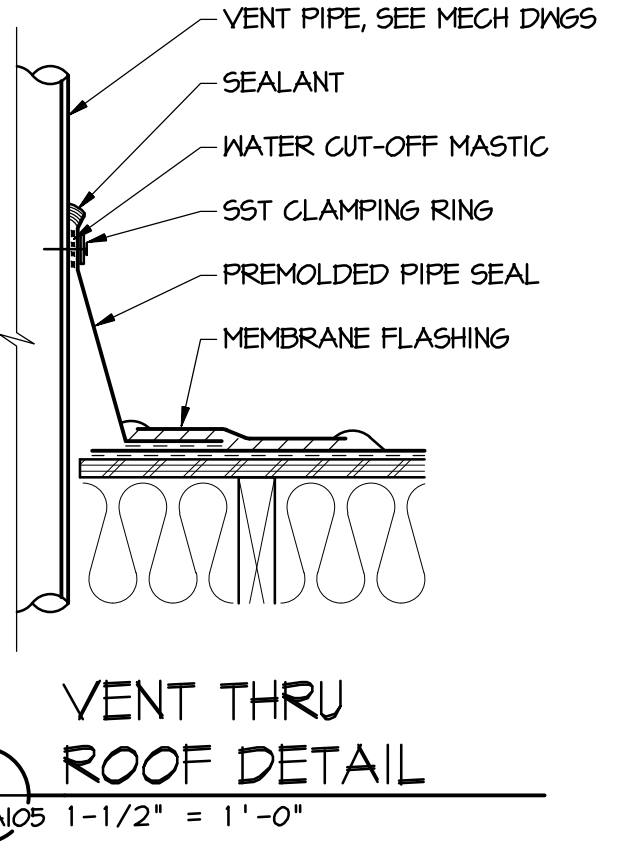
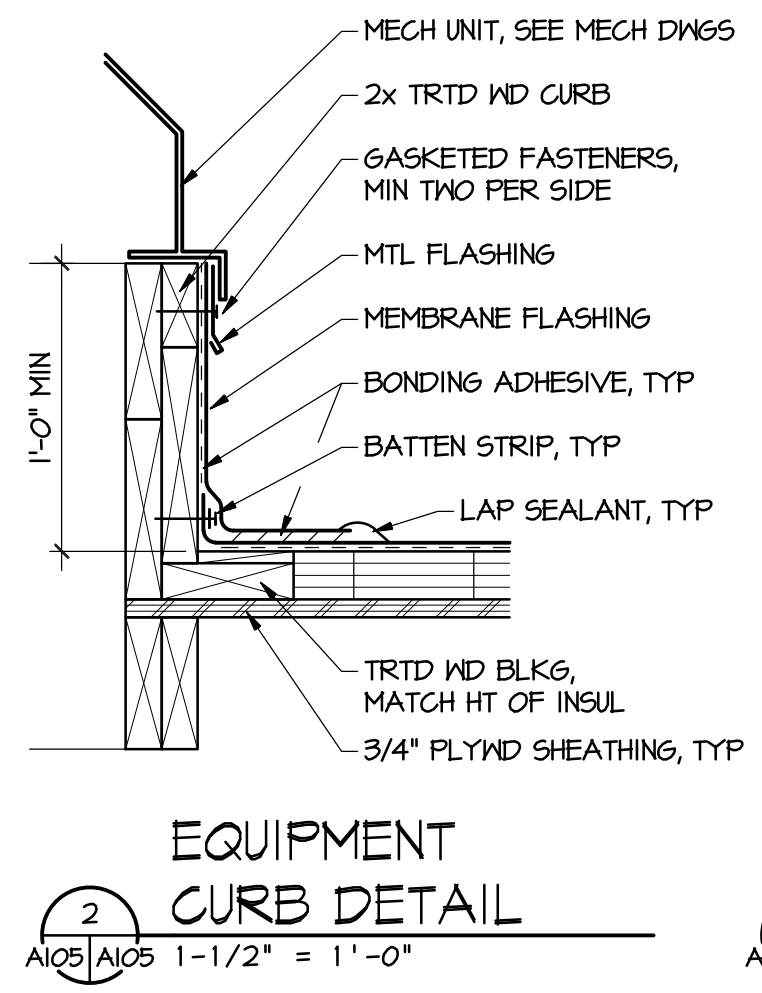
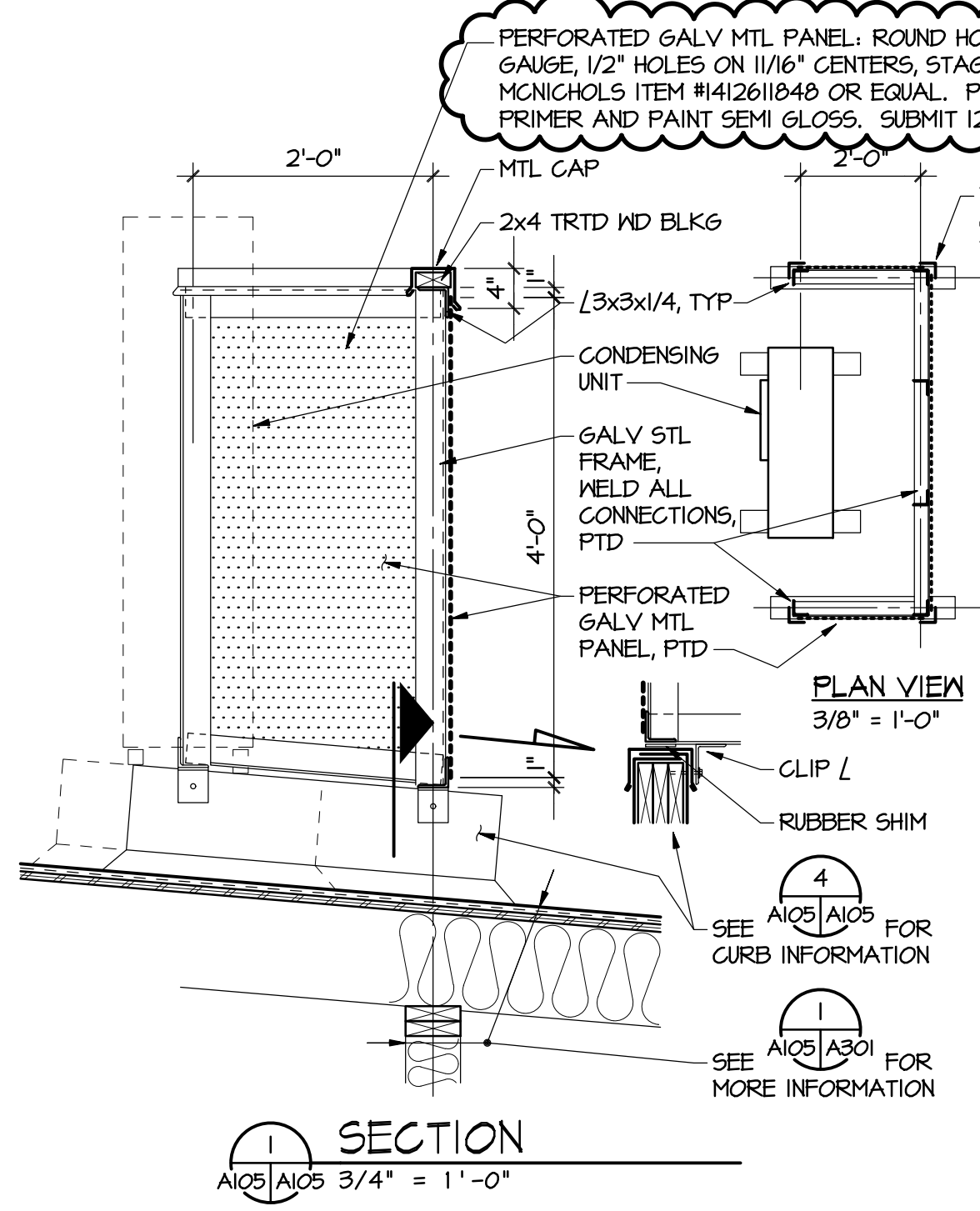
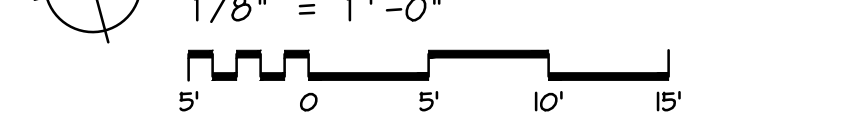
KEY NOTES

- 1 SINGLE-PLY KEE ROOF MEMBRANE MEETING ASTM D6754-02.
- 2 EXTEND ROOF MEMBRANE UP UNDER SLATE TILE ROOFING MINIMUM 24".
- 3 REMOVE PORTION OF EXISTING SLATE ROOF TILES AND SAVE FOR REINSTALLATION. COORDINATE EXTENT REQUIRED WITH NEW ROOF INSTALLATION.
- 4 REINSTALL SLATE ROOF TILES OVER ROOF MEMBRANE. IF ADDL. SLATE TILES ARE REQUIRED, PROVIDE VERMONT NON-FADE SLATE TILES TO MATCH EXISTING.
- 5 REMOVE GUTTER AND ASSOCIATED DOWNSPOUTS.
- 6 REMOVE WINDOW AND PROVIDE NEW CASEMENT WINDOW TO FIT EXISTING OPENING. CASEMENT WINDOW SHALL BE ABLE TO OPEN TO 90° FOR ROOF ACCESS. COORD AND MATCH EXISTING MUNTIN PATTERN.
- 7 WALK PADS, 24" x 24" WITH 8" GAP BETWEEN.
- 8 EXHAUST FAN ON CURB, SEE DETAIL 2/A105.
- 9 CONDENSING UNIT ON RAILS, SEE DETAIL 4/A105.
- 10 PIPE BOX, SEE DETAIL 5/A105.
- 11 SCREEN WALL, SEE DETAIL 1/A105.
- 12 VTR AND BATHROOM EXHAUST, SEE DETAIL 3/A105.
- 13 SLATE ROOF TILES, MATCH EXISTING.
- 14 VEGETATIVE ROOF SYSTEM WITH WATER RETENTION OF 1.7" MIN AND MEDIA RETENTION OF 48% MIN, FURBISH ECOCLINE 2+2, SEE DETAIL 6/A105.
- 15 TOILET ROOM EXHAUST, PROVIDE PREMOLDED PIPE SEAL AND FLASHING INTO EXISTING ROOF SYSTEM TO PROVIDE WATERTIGHT SEAL.



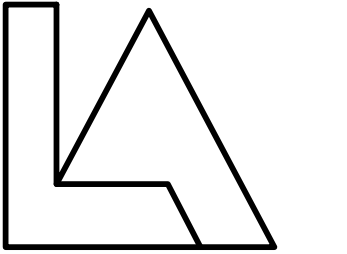
PERFORATED GALV MTL PANEL: ROUND HOLE, GALV 640, 18 GAUGE, 1/2" HOLES ON 11/16" CENTERS, STAGGERED PATTERN. MONICHO'S ITEM #141261849 OR EQUAL. PRIME WITH ZINC RICH PRIMER AND PAINT SEMI GLOSS. SUBMIT 12"x12" FINISHED SAMPLE.

ROOF / ATTIC PLAN



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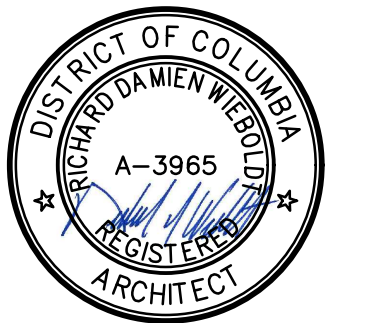
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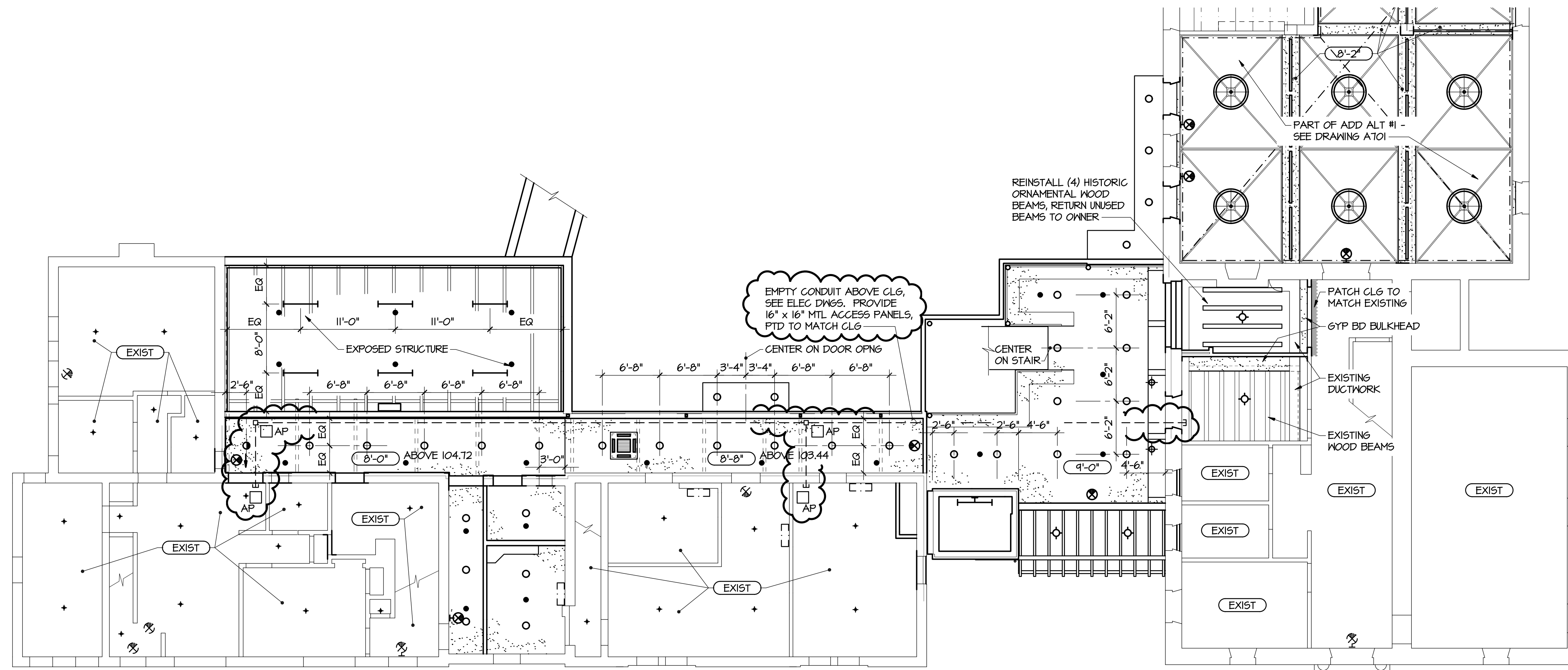
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ROOF / ATTIC PLAN**

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A105

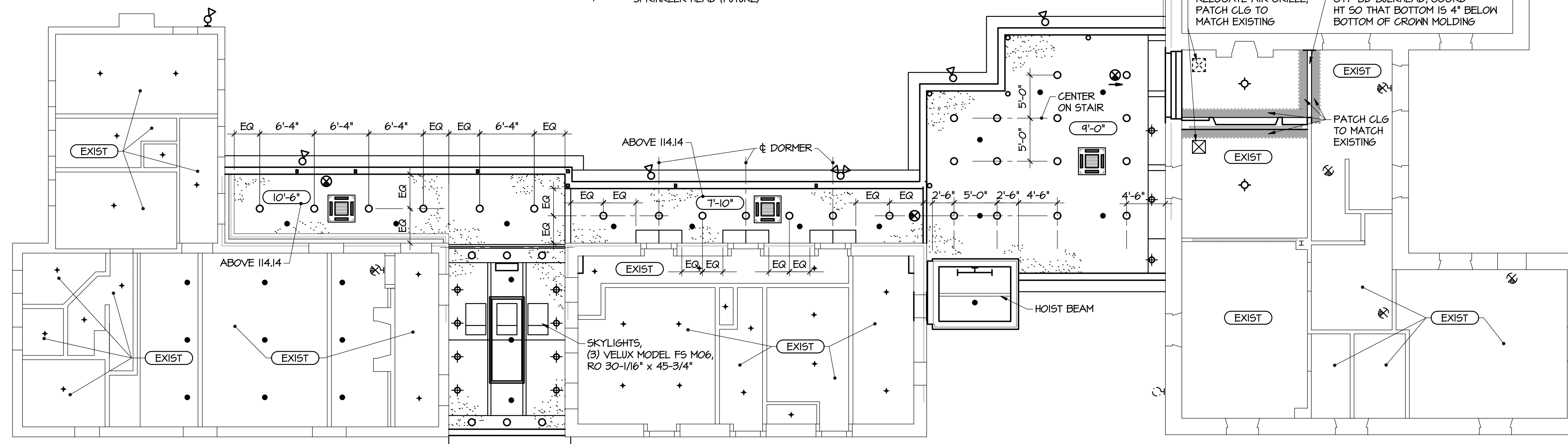


LEGEND:

- GYPSUM BOARD CEILING / SOFFIT
- CEILING HEIGHT ABOVE FINISH FLOOR
- HVAC UNIT
- SPRINKLER HEAD (INSTALLED)
- SPRINKLER HEAD (FUTURE)
- LIGHT FIXTURES, SEE ELEC DWGS

GROUND LEVEL REFLECTED CEILING PLAN

1/8" = 1'-0"
 5' 0' 5' 10' 15'



MEETING LEVEL REFLECTED CEILING PLAN

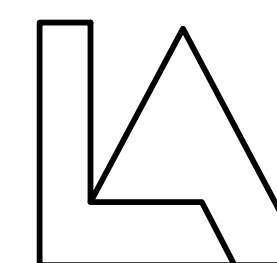
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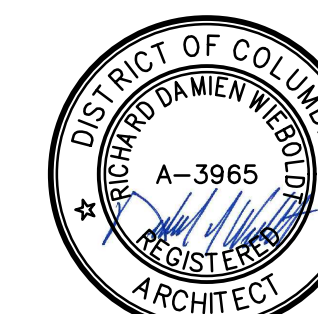
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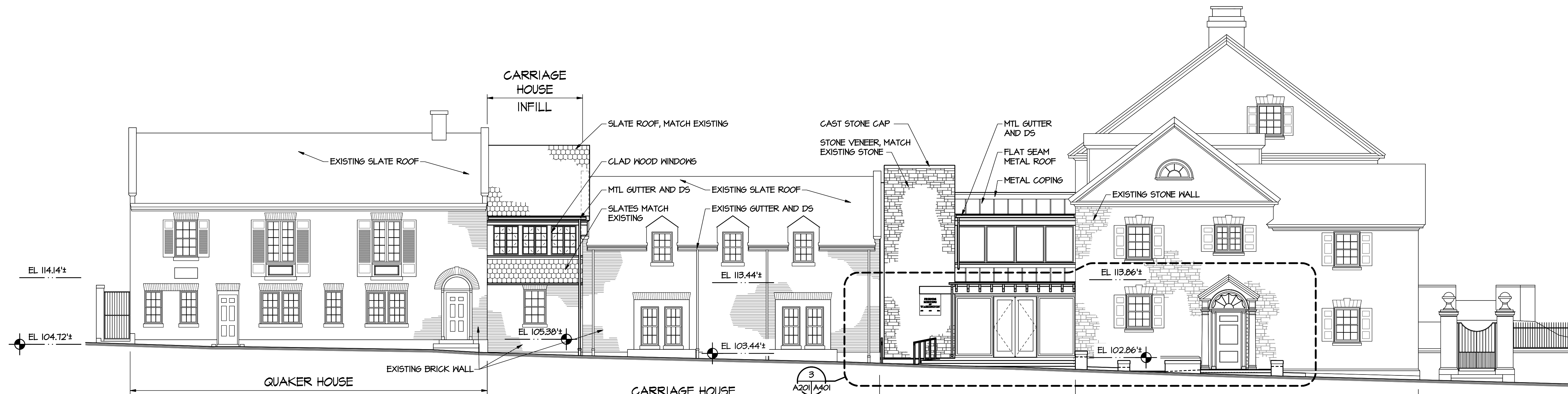
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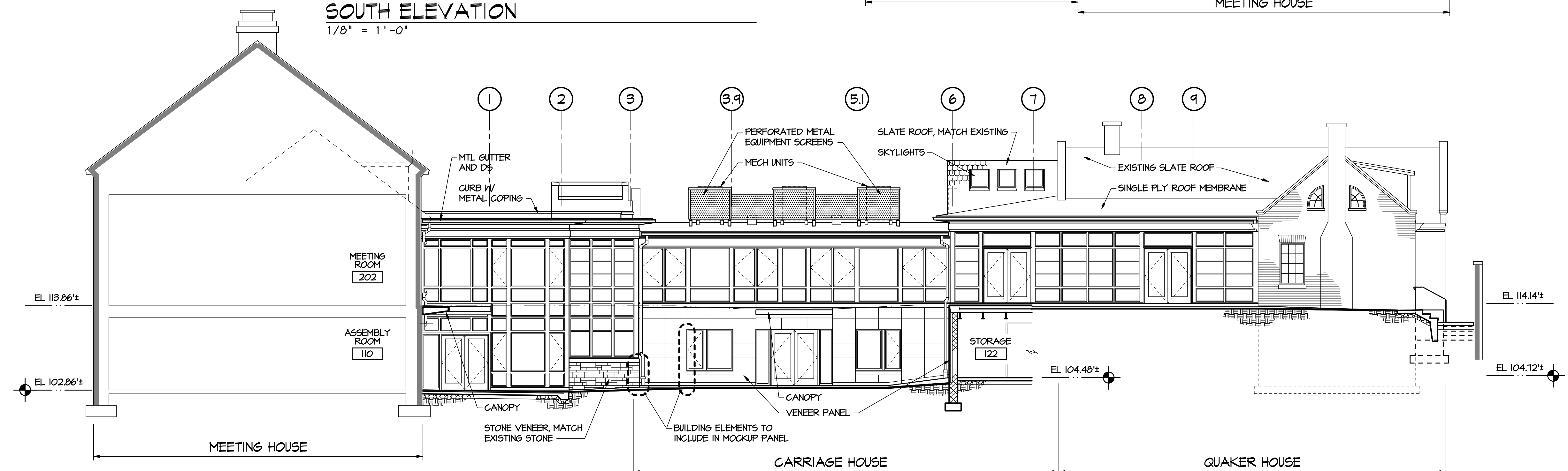
REFLECTED
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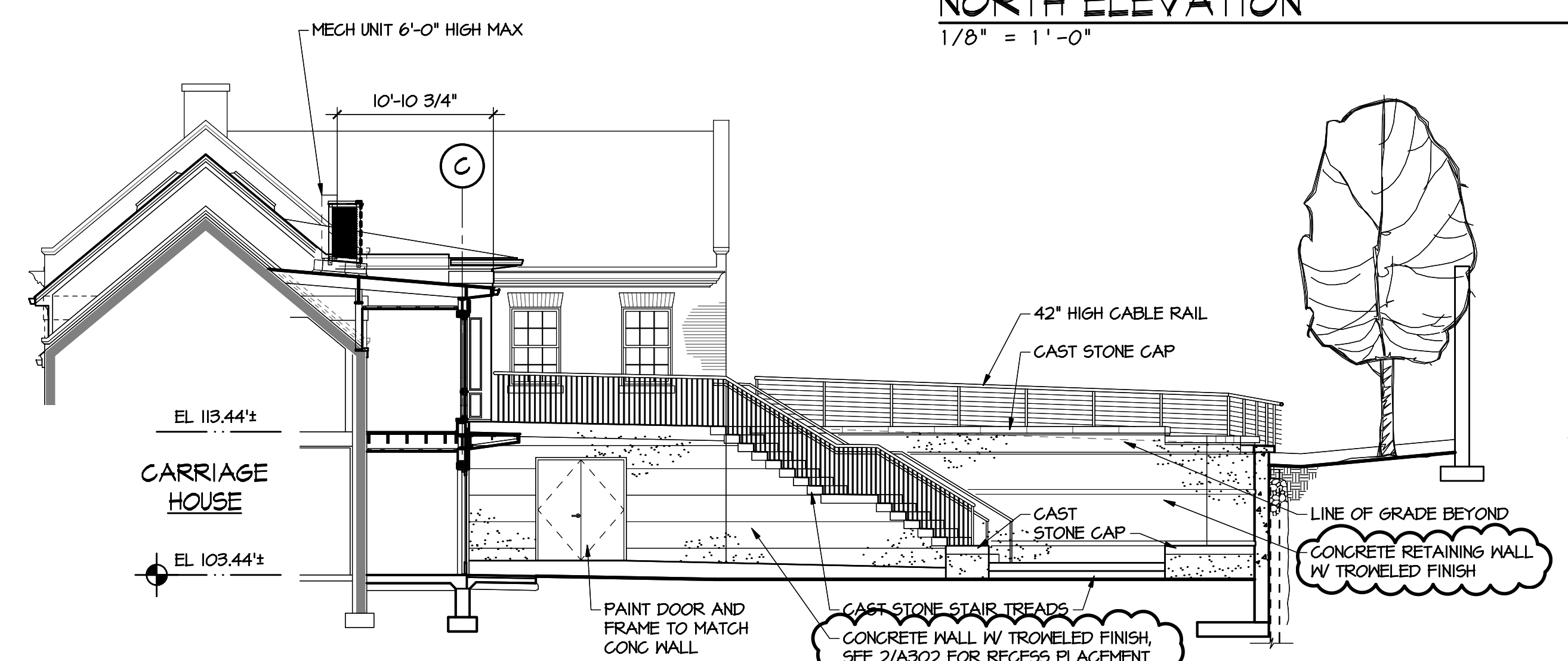
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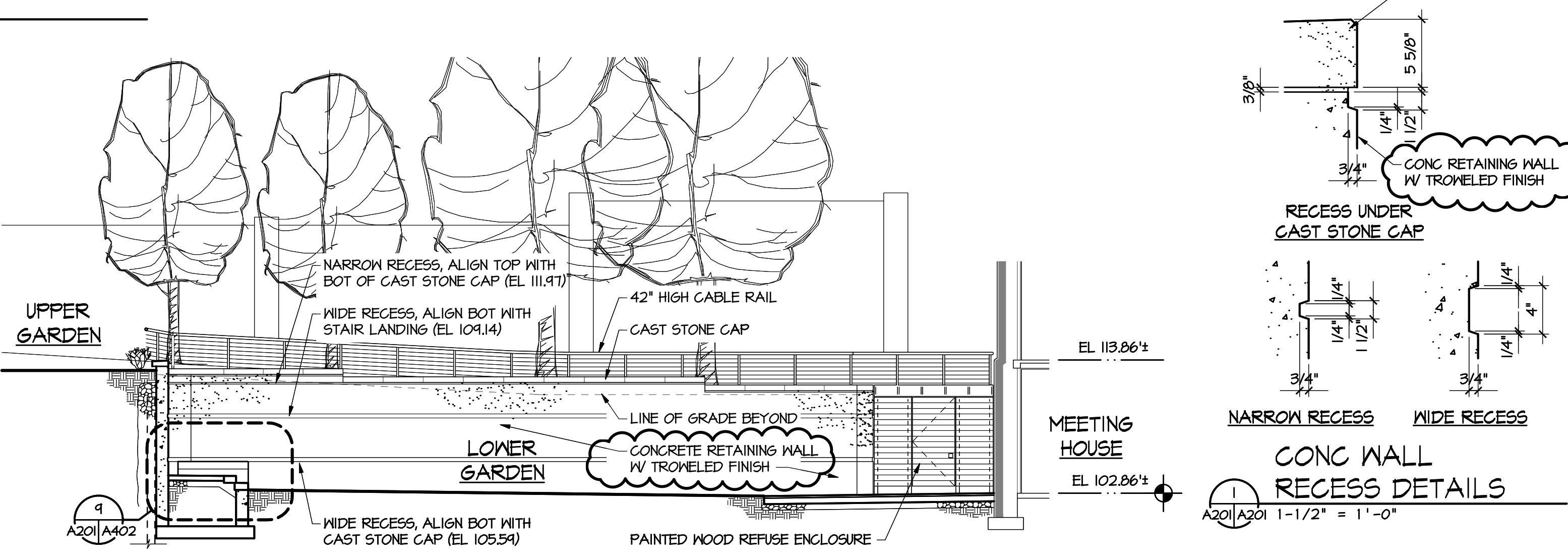
SOUTH ELEVATION
1/8" = 1'-0"



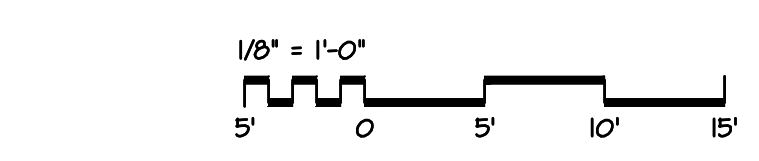
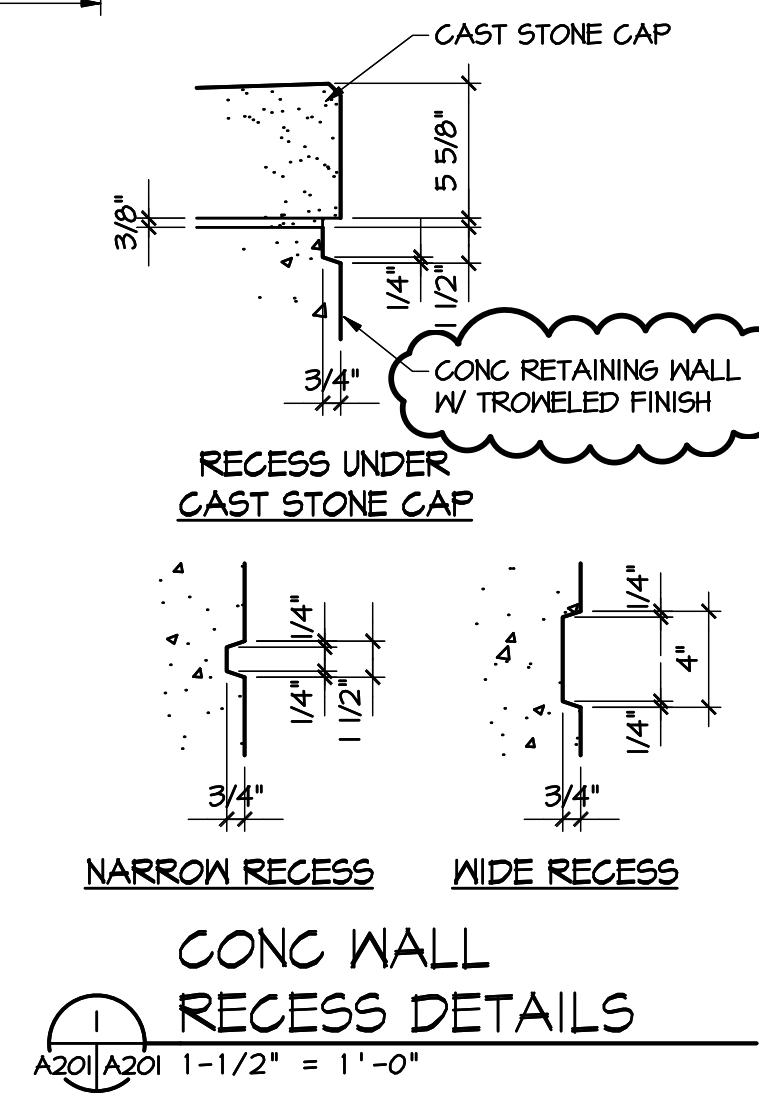
NORTH ELEVATION
1/8" = 1'-0"



GARDEN WEST ELEVATION
1/8" = 1'-0"

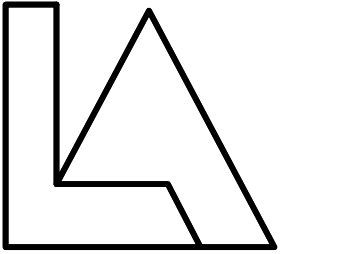


GARDEN SOUTH ELEVATION
1/8" = 1'-0"



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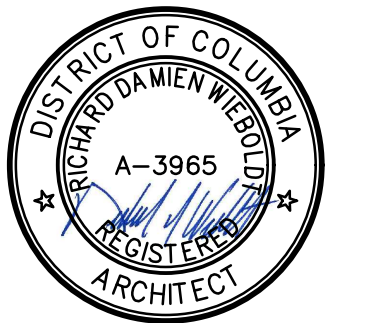
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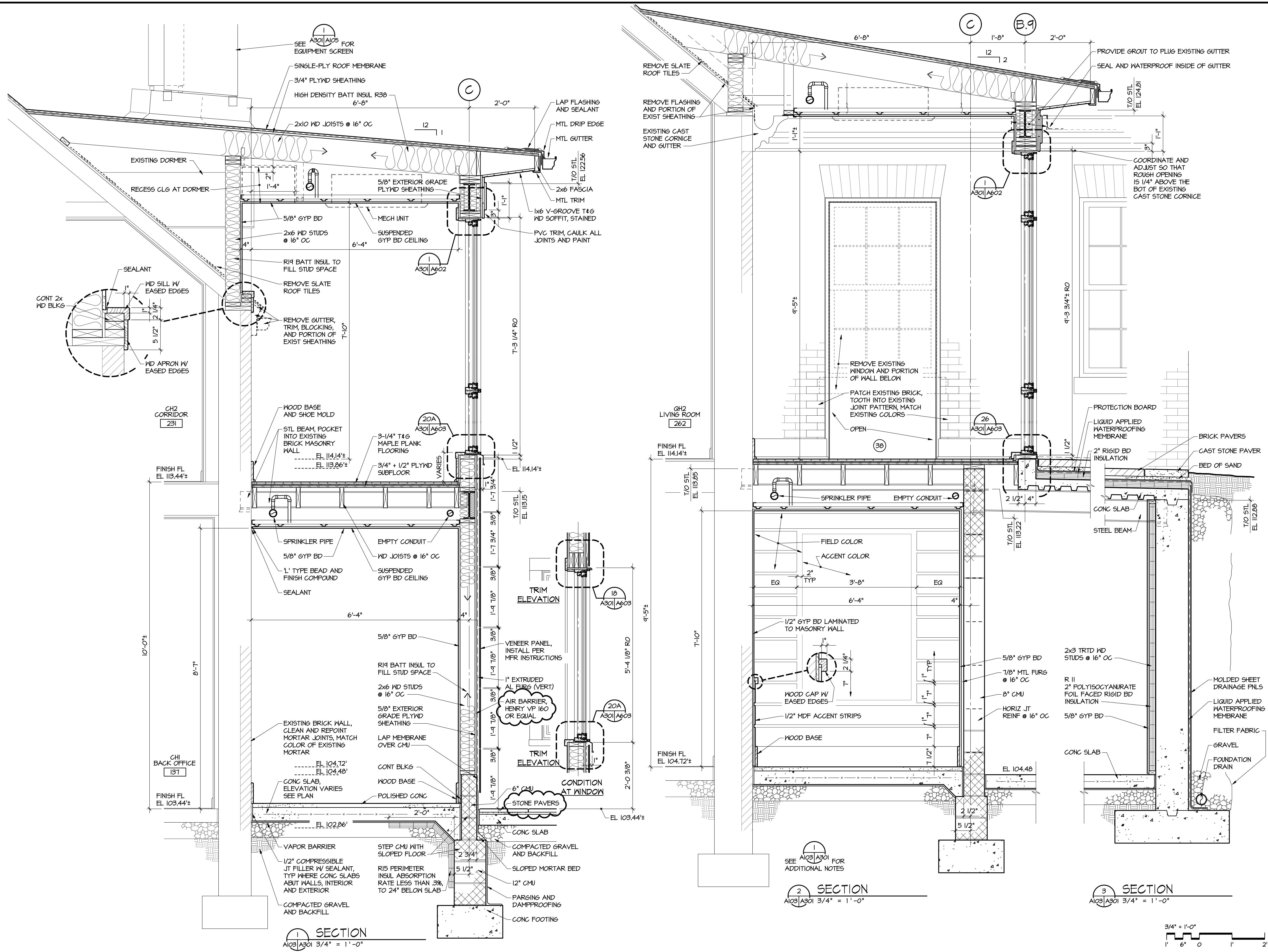
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**ARCHITECTURAL
EXTERIOR ELEVATIONS**

DRAWING NUMBER

A201

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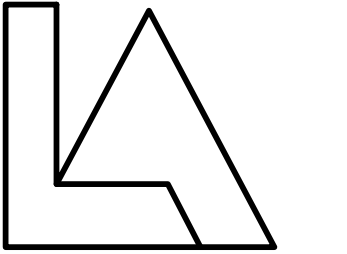


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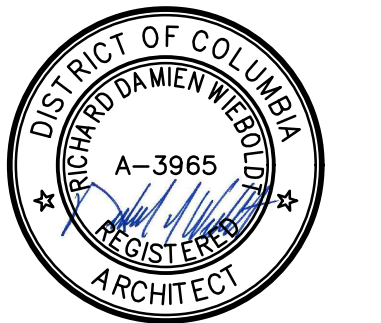
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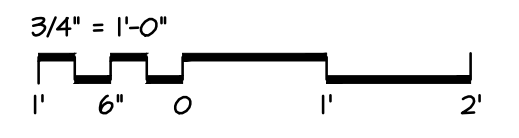
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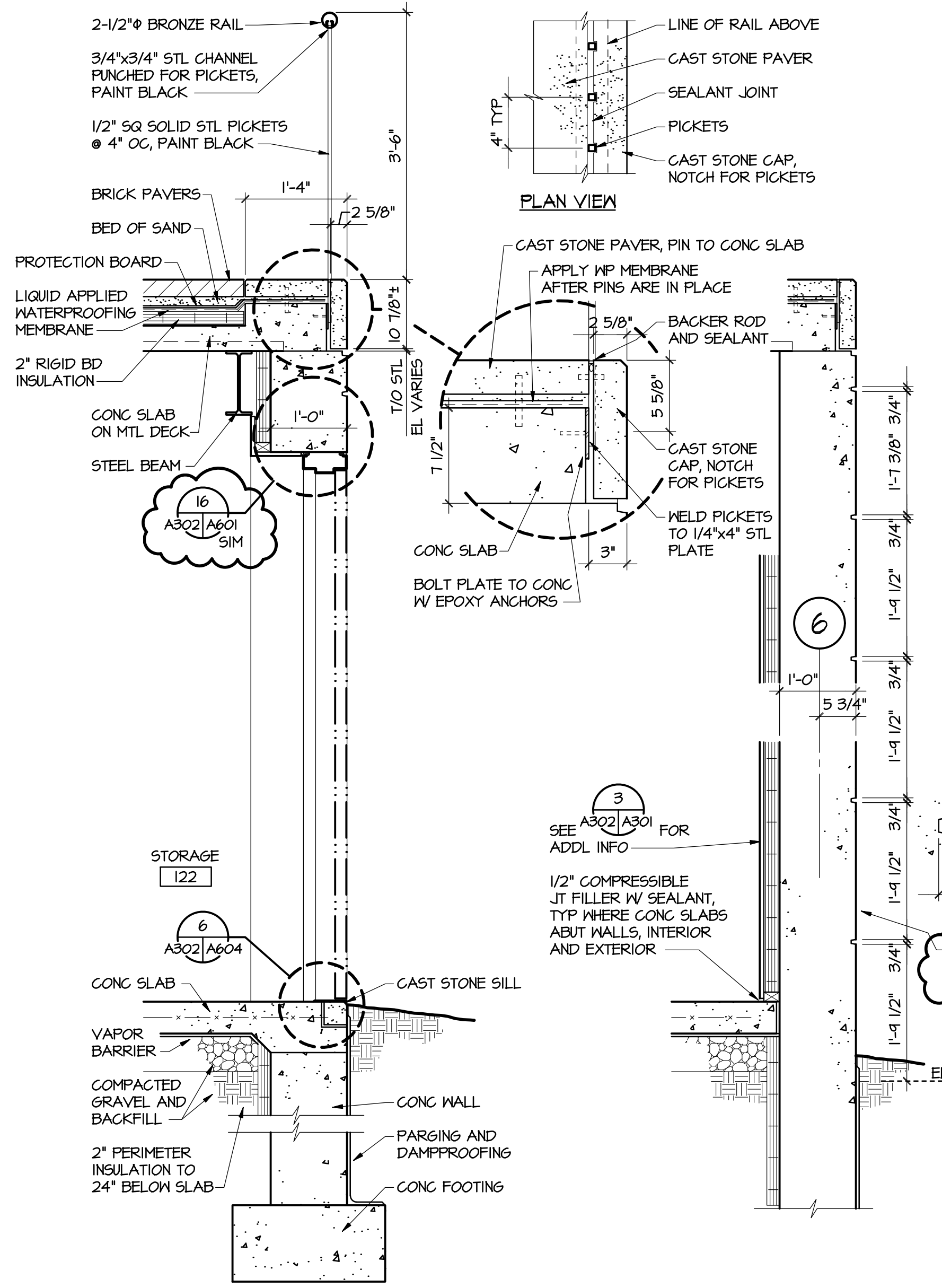
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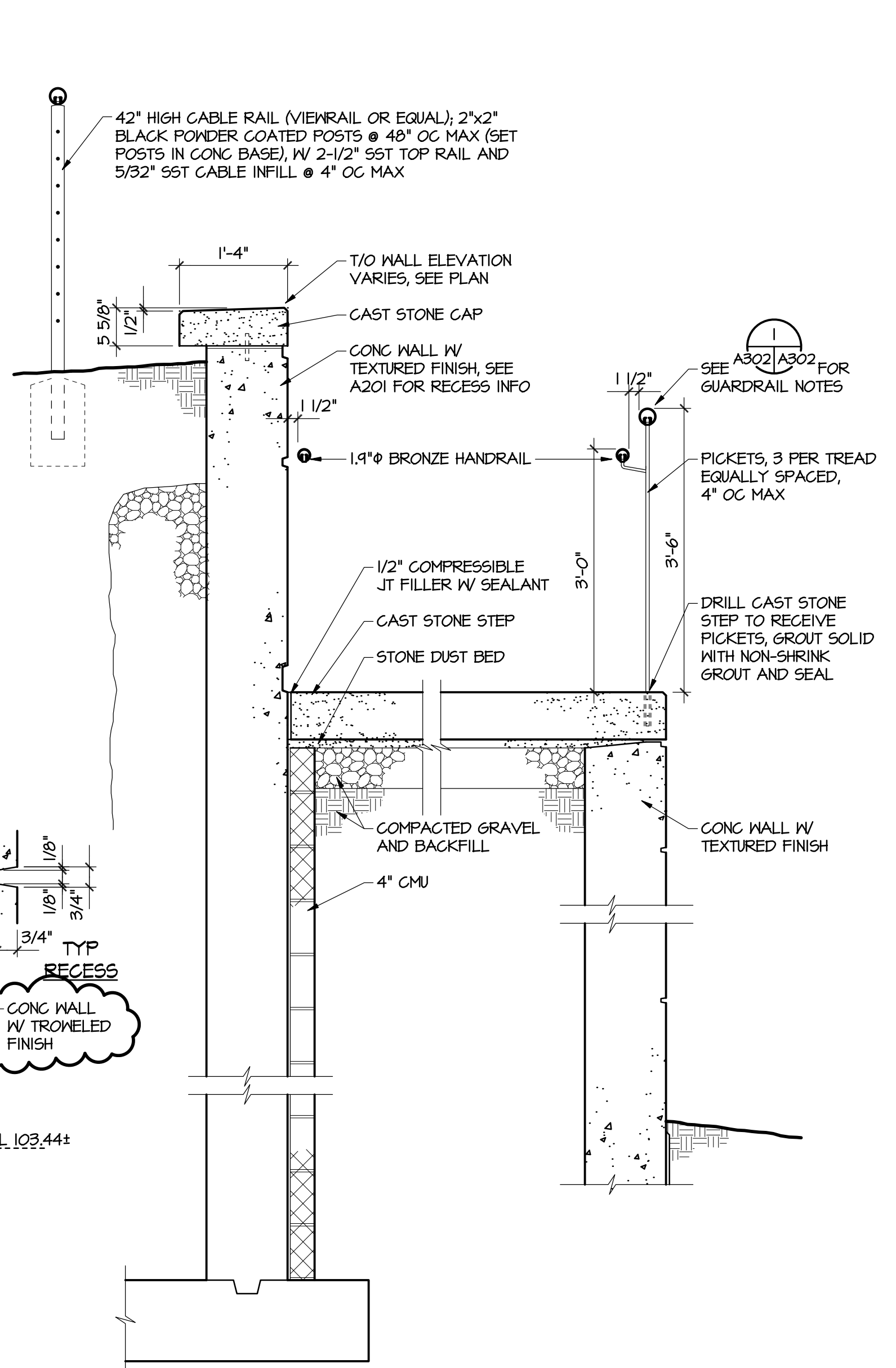
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A301



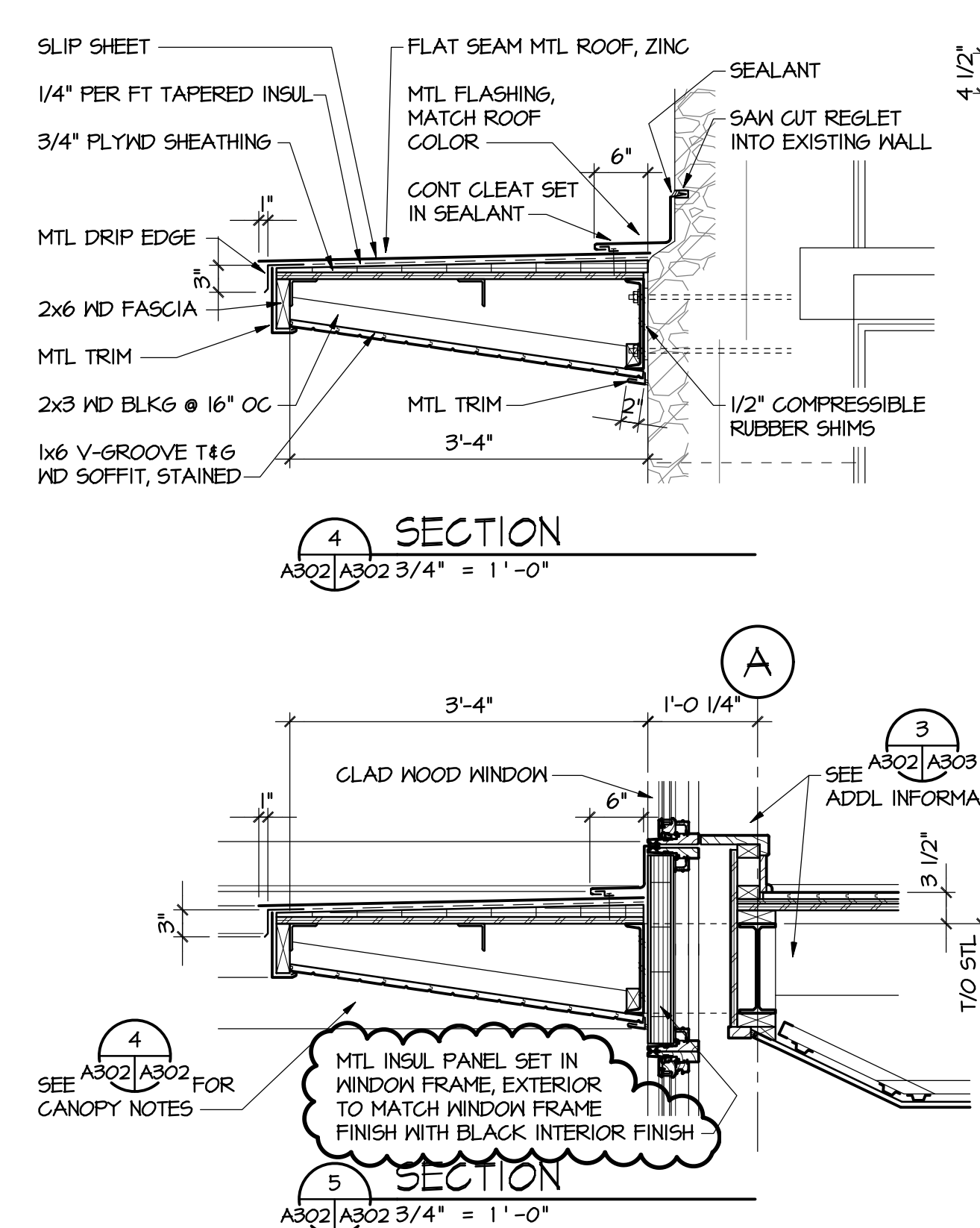


SECTION 1
A402/A302 3/4" = 1'-0"



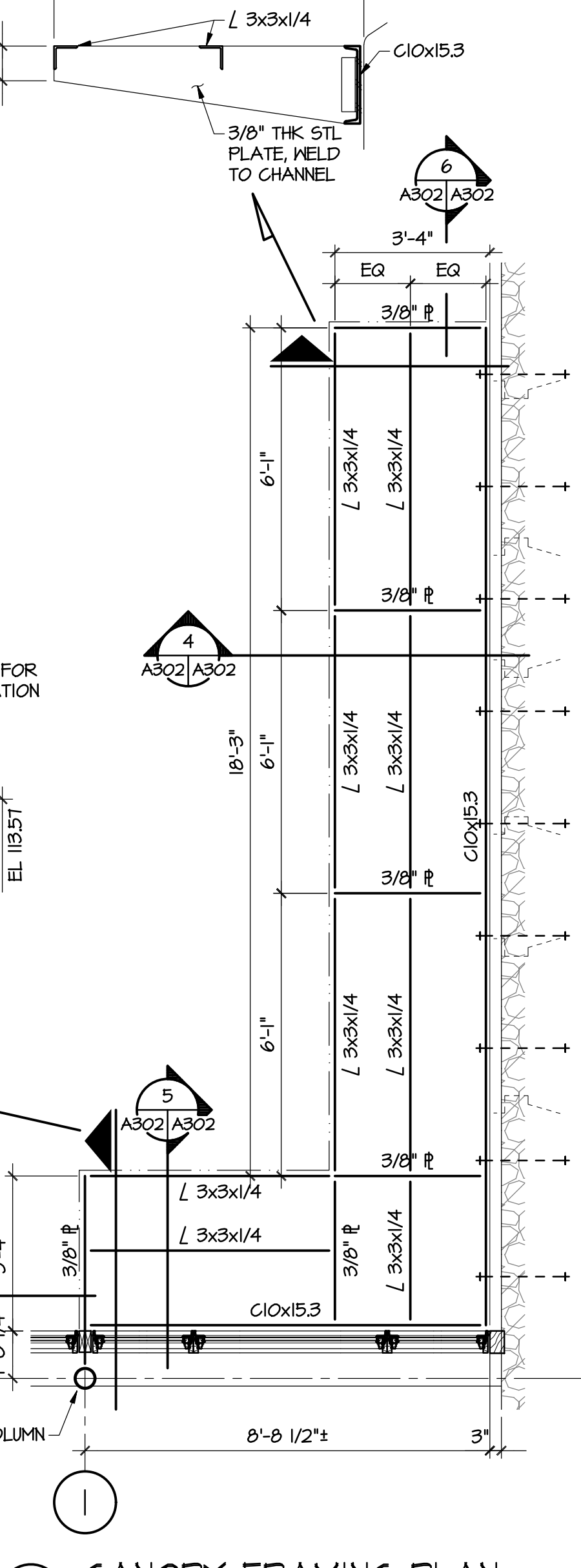
SECTION 2
A402/A302 3/4" = 1'-0"

SECTION 3
A402/A302 3/4" = 1'-0"

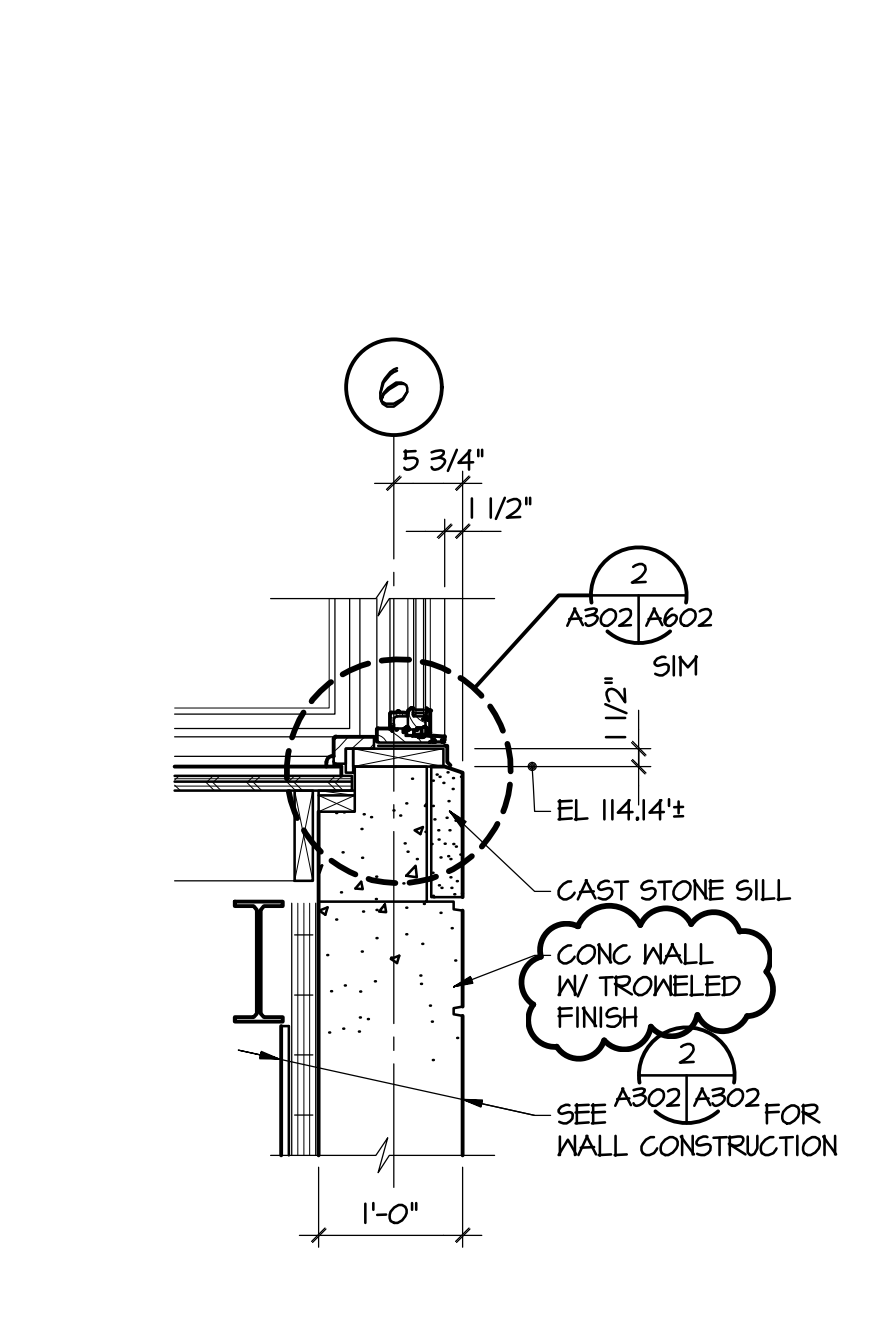


SECTION 4
A302/A302 3/4" = 1'-0"

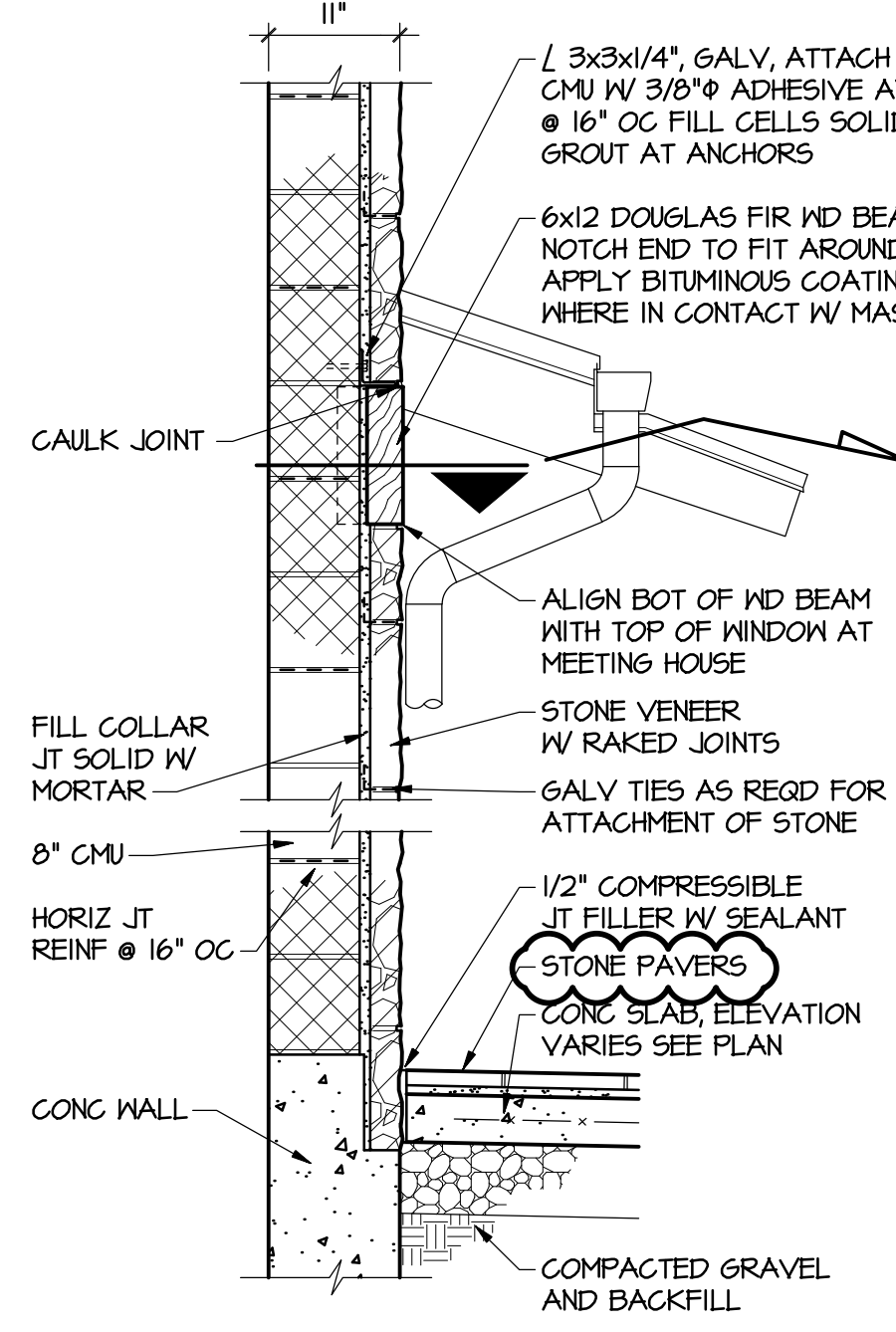
SECTION 5
A302/A302 3/4" = 1'-0"



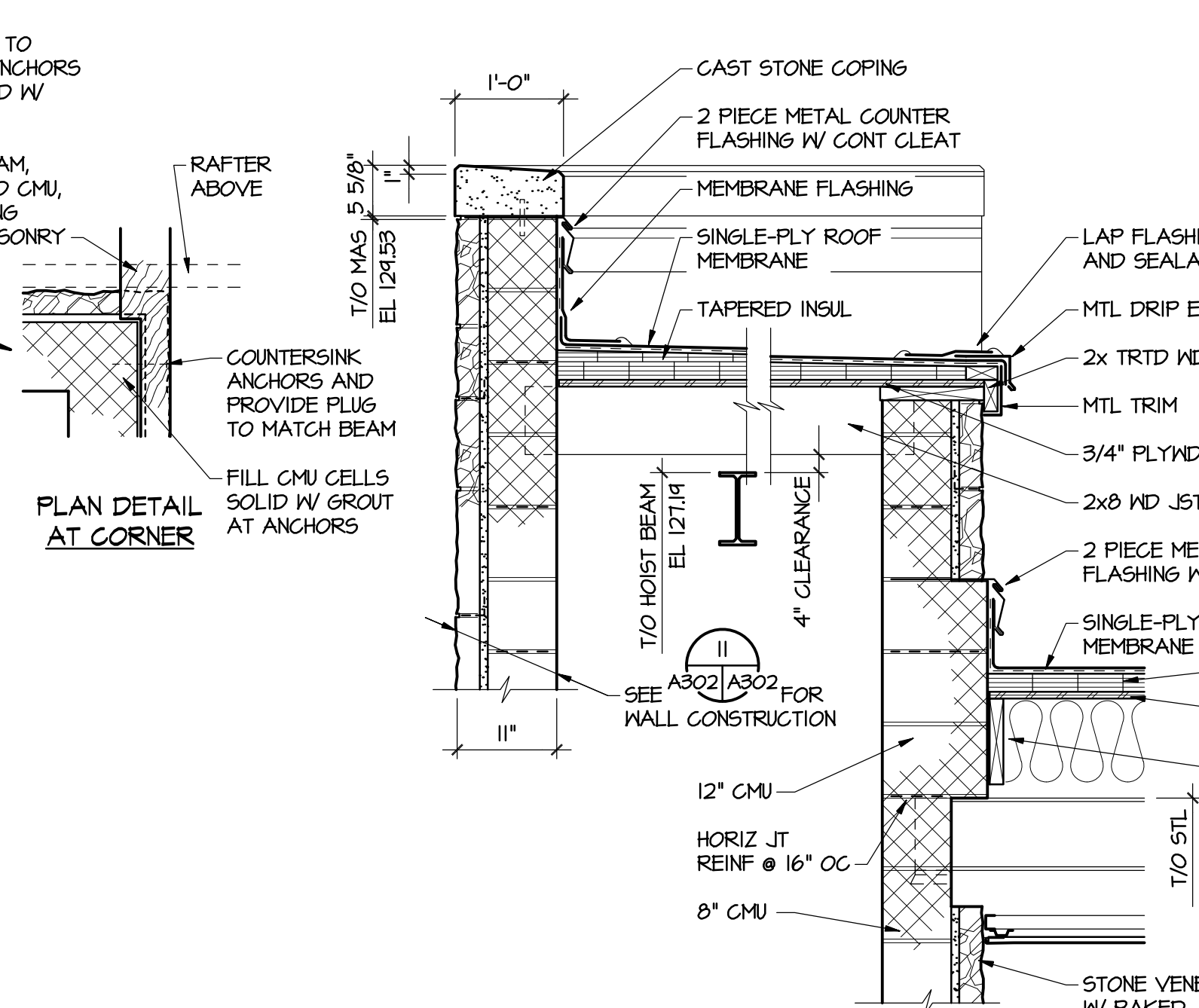
CANOPY FRAMING PLAN
A104/A302 3/8" = 1'-0"



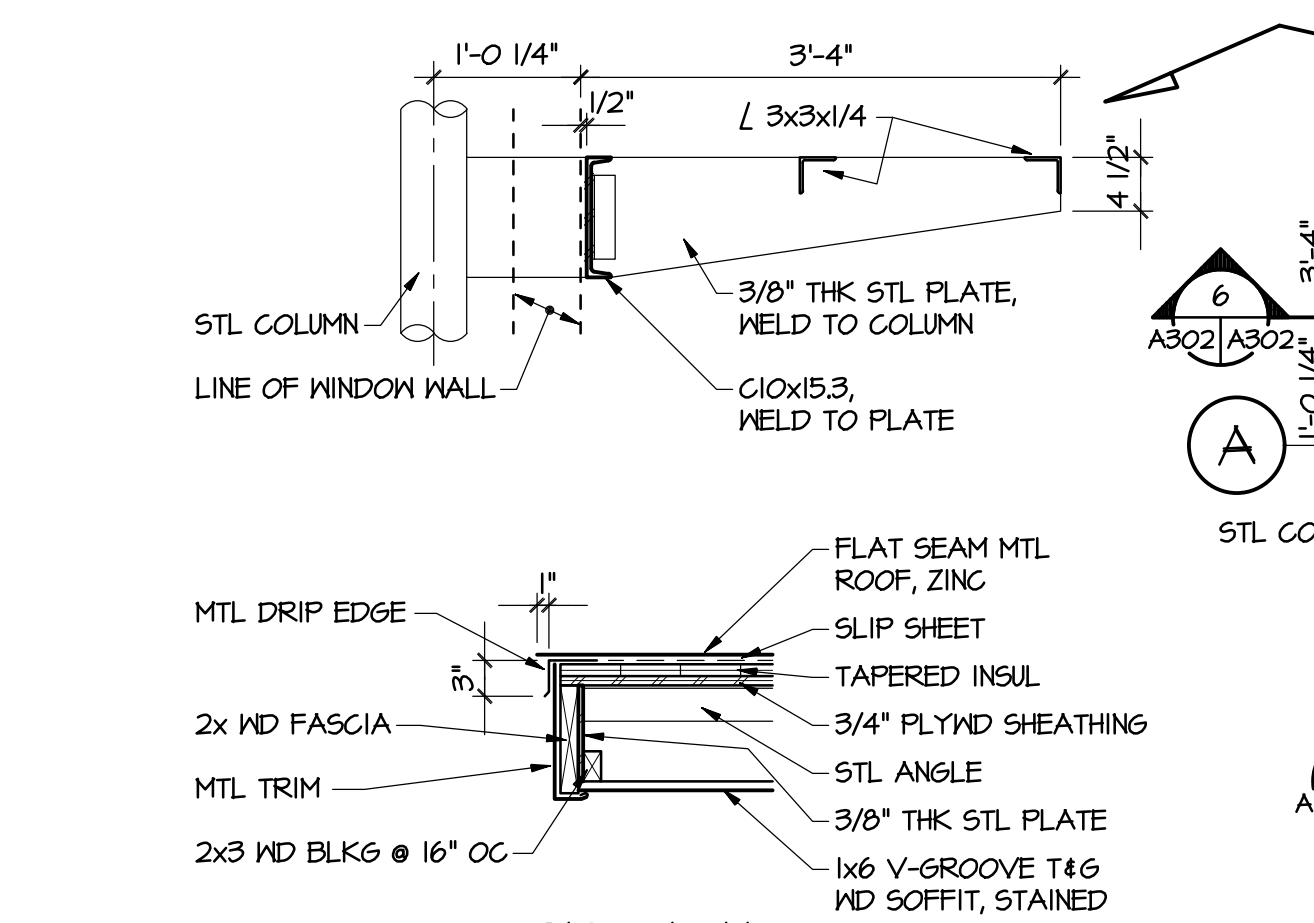
SECTION 6
A104/A302 3/4" = 1'-0"



SECTION 7
A401/A302 3/4" = 1'-0"

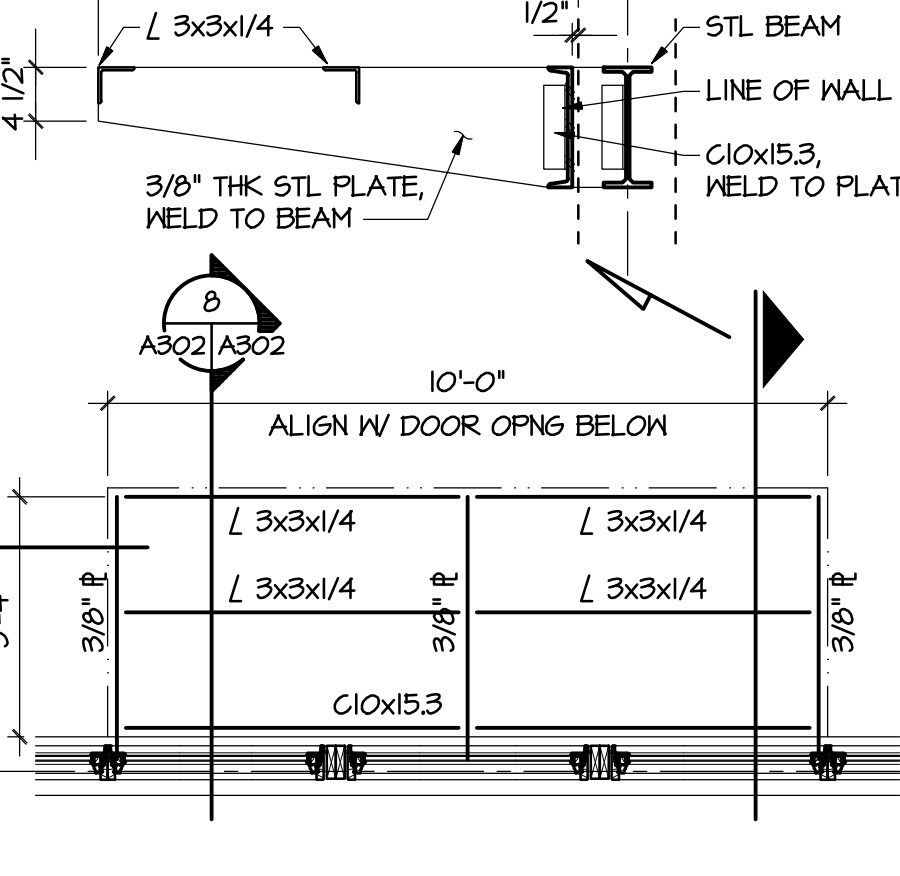


SECTION 9
A404/A302 3/4" = 1'-0"

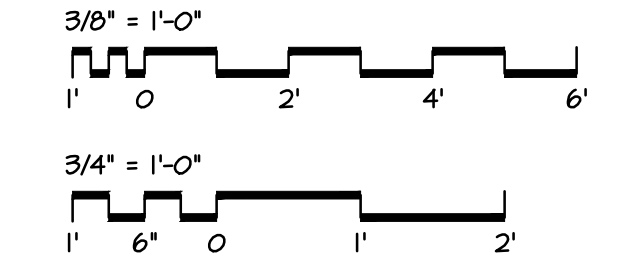


SECTION 10
A302/A302 3/4" = 1'-0"

SECTION 11
A302/A302 3/4" = 1'-0"



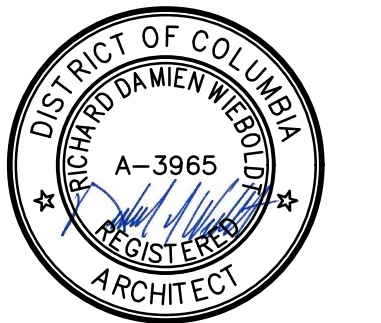
CANOPY FRAMING PLAN
A104/A302 3/8" = 1'-0"



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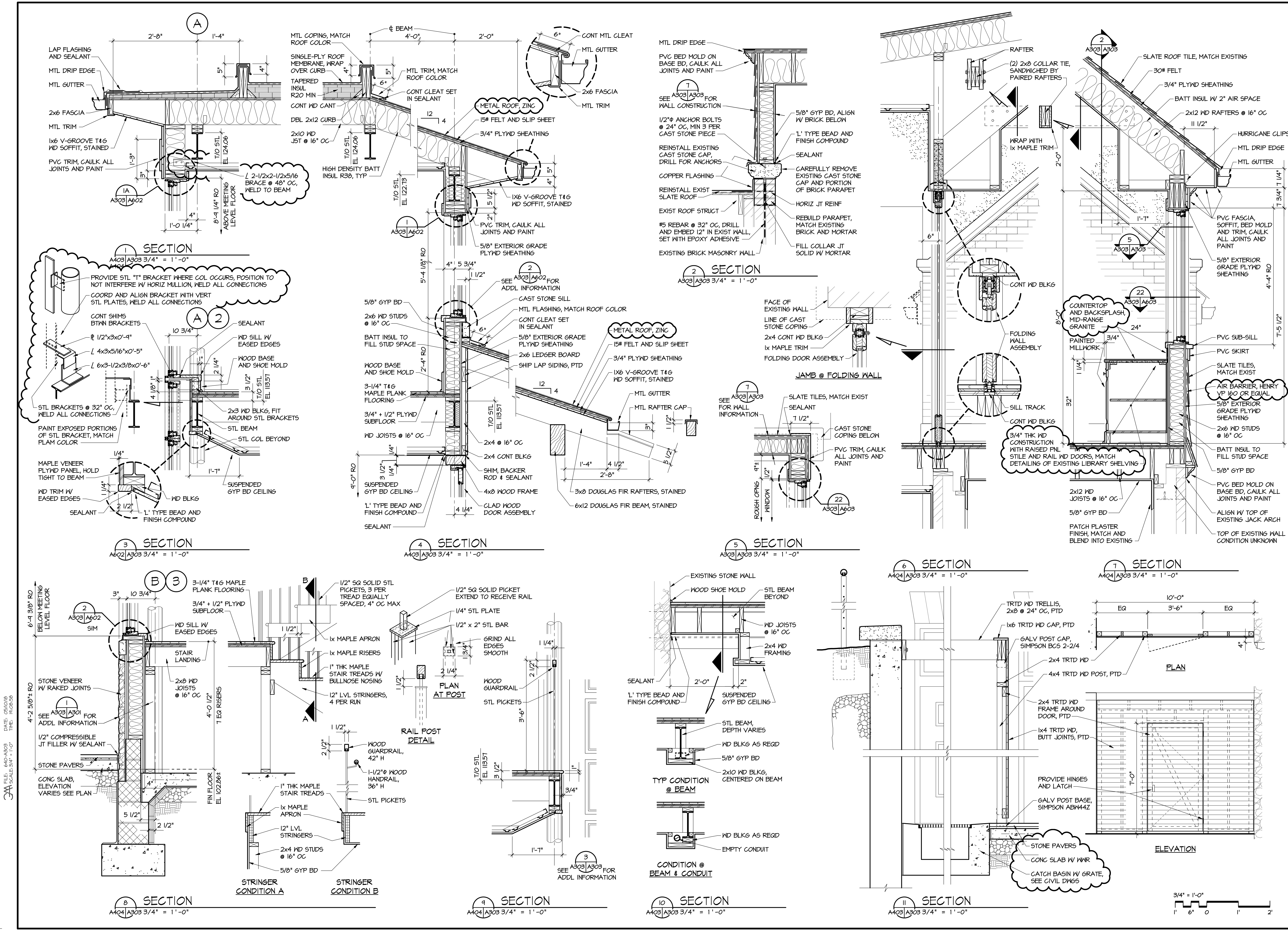
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DATE 12-1-2017 BID SET

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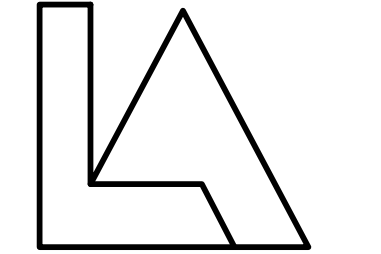
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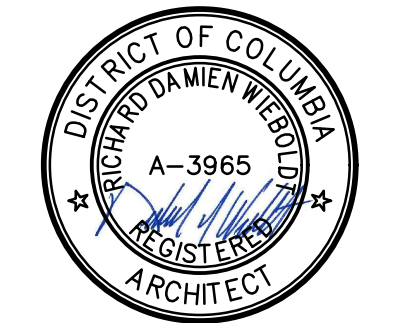
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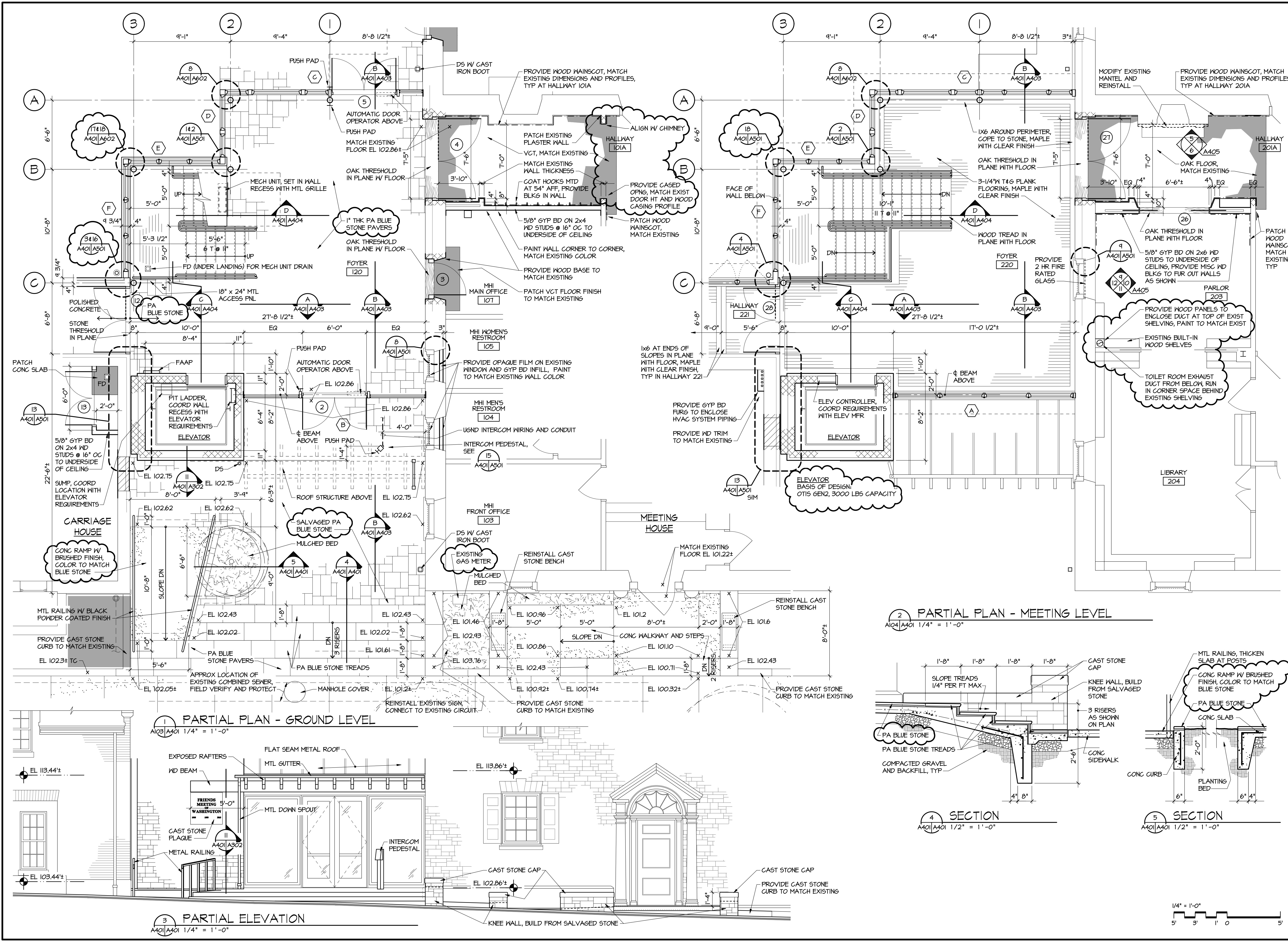
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**ARCHITECTURAL
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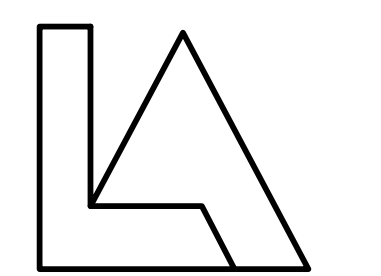
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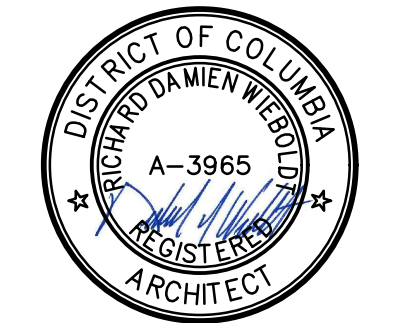
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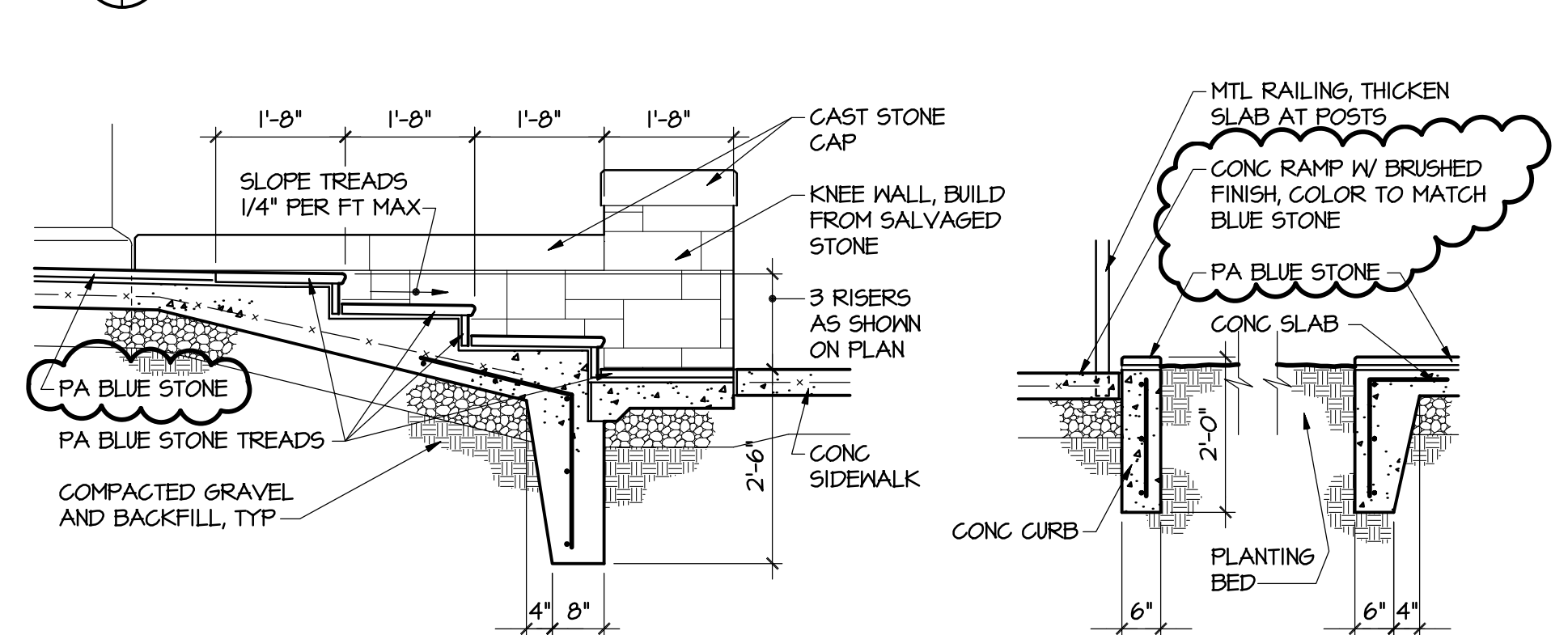
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PARTIAL PLANS AND
DETAILS

DRAWING NUMBER

A401

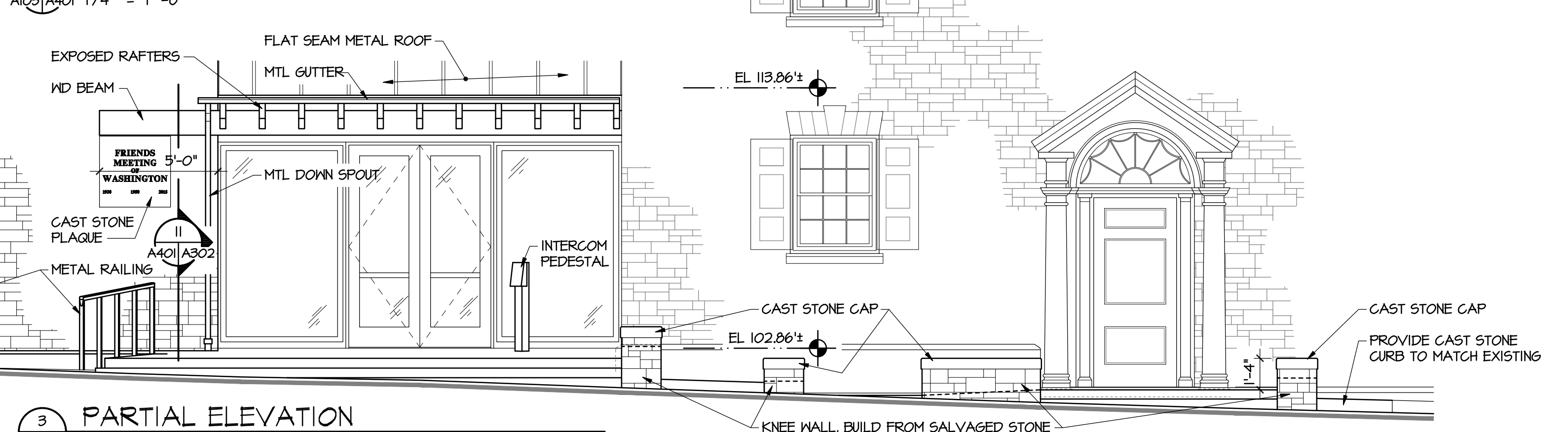
2 PARTIAL PLAN - MEETING LEVEL
A104|A401 1/4" = 1'-0"



4 SECTION
A401|A401 1/2" = 1'-0"

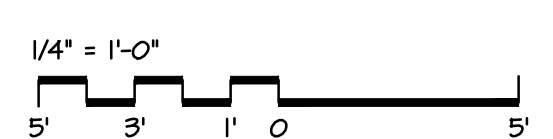
5 SECTION
A401|A401 1/2" = 1'-0"

1 PARTIAL PLAN - GROUND LEVEL
A103|A401 1/4" = 1'-0"

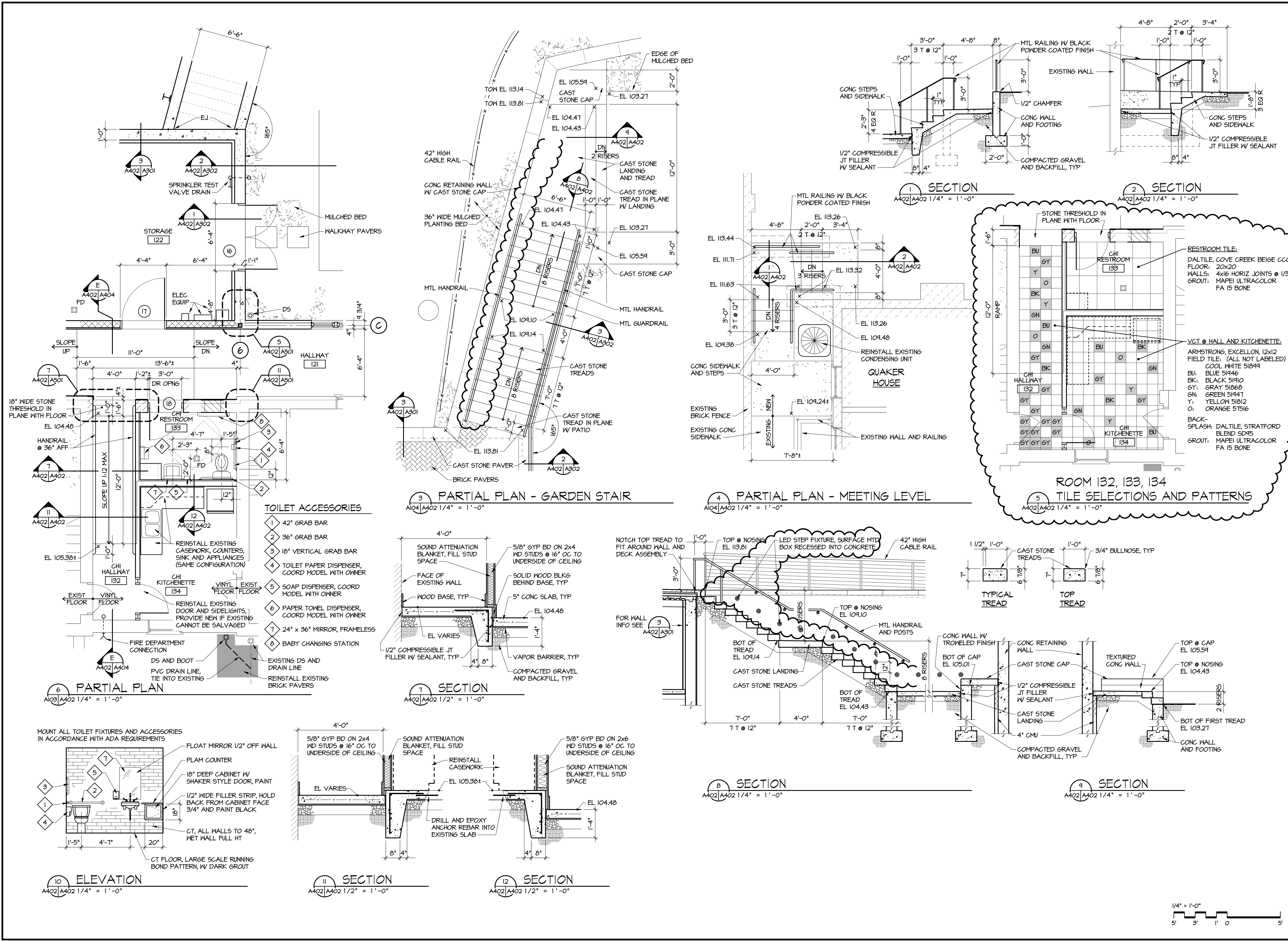


3 PARTIAL ELEVATION
A401|A401 1/4" = 1'-0"

DATE: 02/01/18 TIME: 10:02
SCALE: 1/4" = 1'-0"



DATE: 05/10/18
 TIME: 10:00 AM
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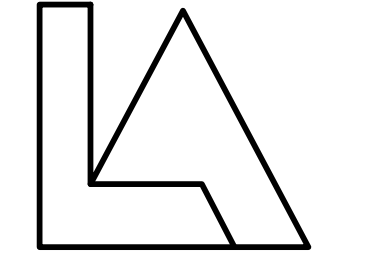


- TOILET ACCESSORIES**
- 1 42" GRAB BAR
 - 2 36" GRAB BAR
 - 3 18" VERTICAL GRAB BAR
 - 4 TOILET PAPER DISPENSER, COORD MODEL WITH OWNER
 - 5 SOAP DISPENSER, COORD MODEL WITH OWNER
 - 6 PAPER TOWEL DISPENSER, COORD MODEL WITH OWNER
 - 7 24" x 36" MIRROR, FRAMELESS
 - 8 BABY CHANGING STATION



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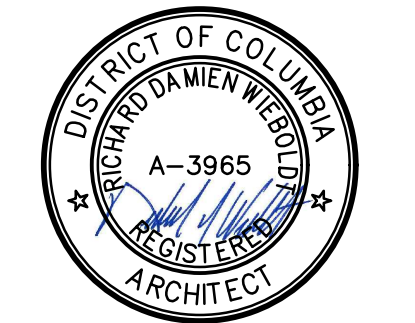
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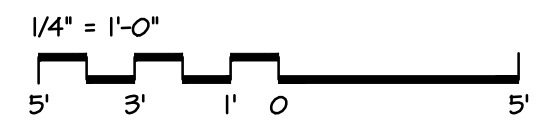
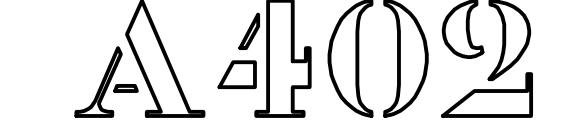
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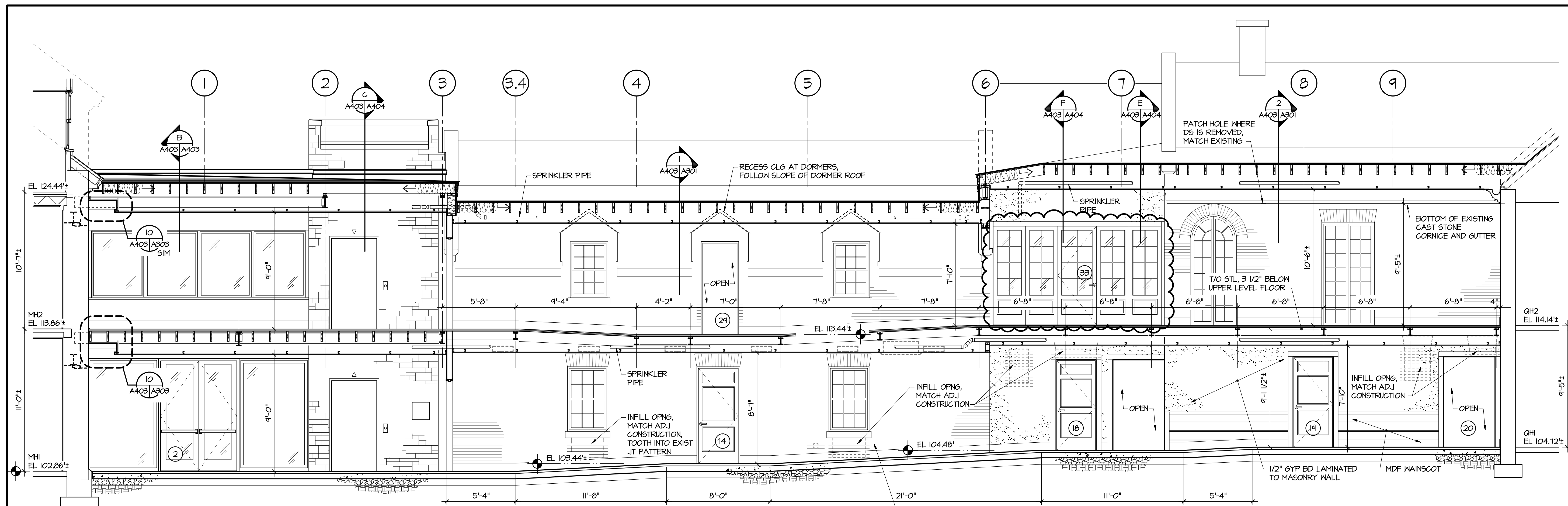
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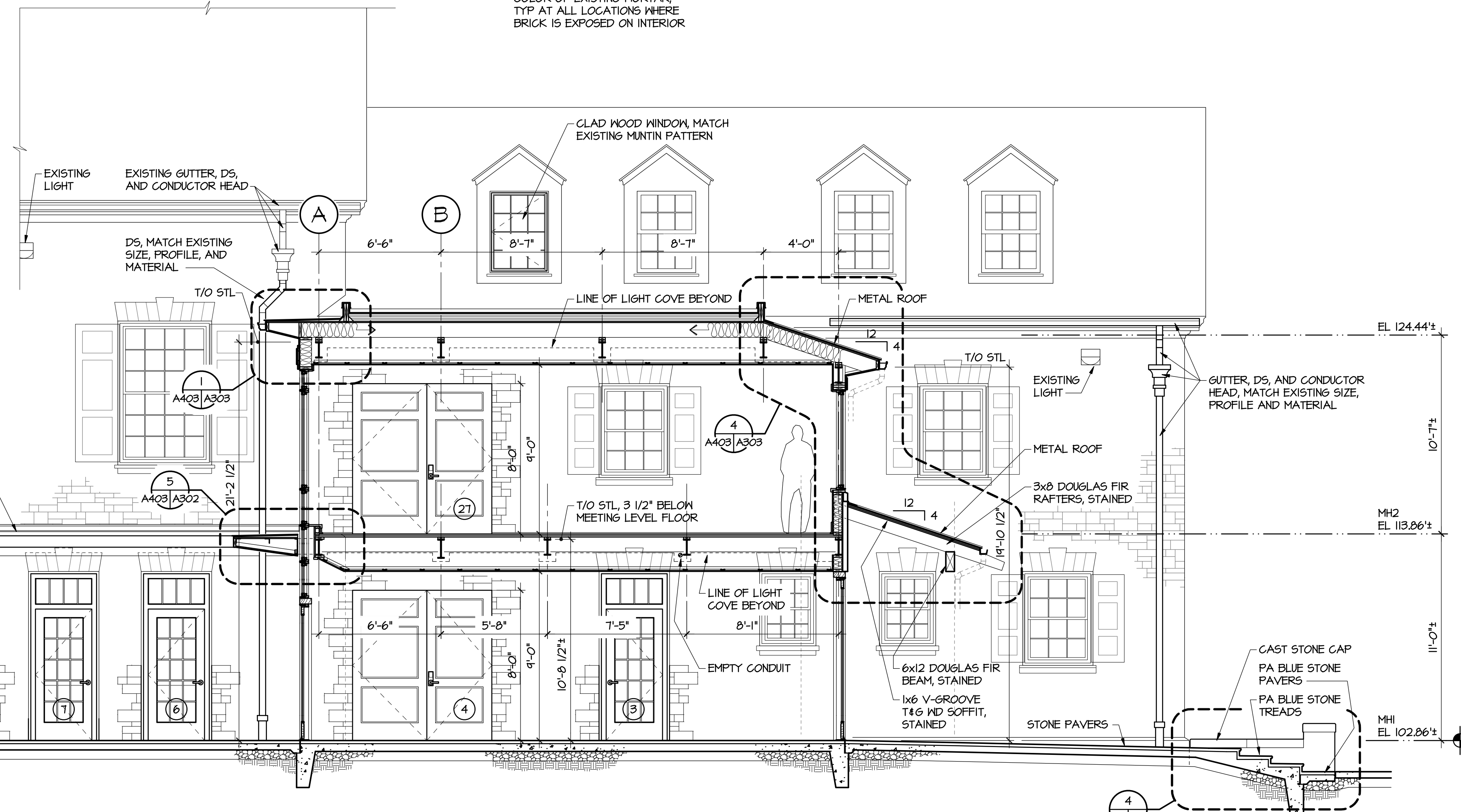
PARTIAL PLANS AND
DETAILS

DRAWING NUMBER





A INTERIOR ELEVATION / SECTION
 A103 | A403 1/4" = 1'-0"

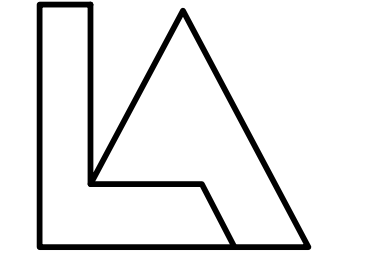


B INTERIOR ELEVATION / SECTION
 A103 | A403 1/4" = 1'-0"



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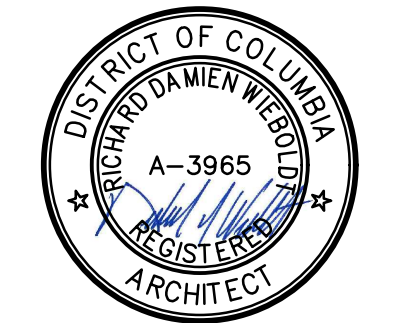
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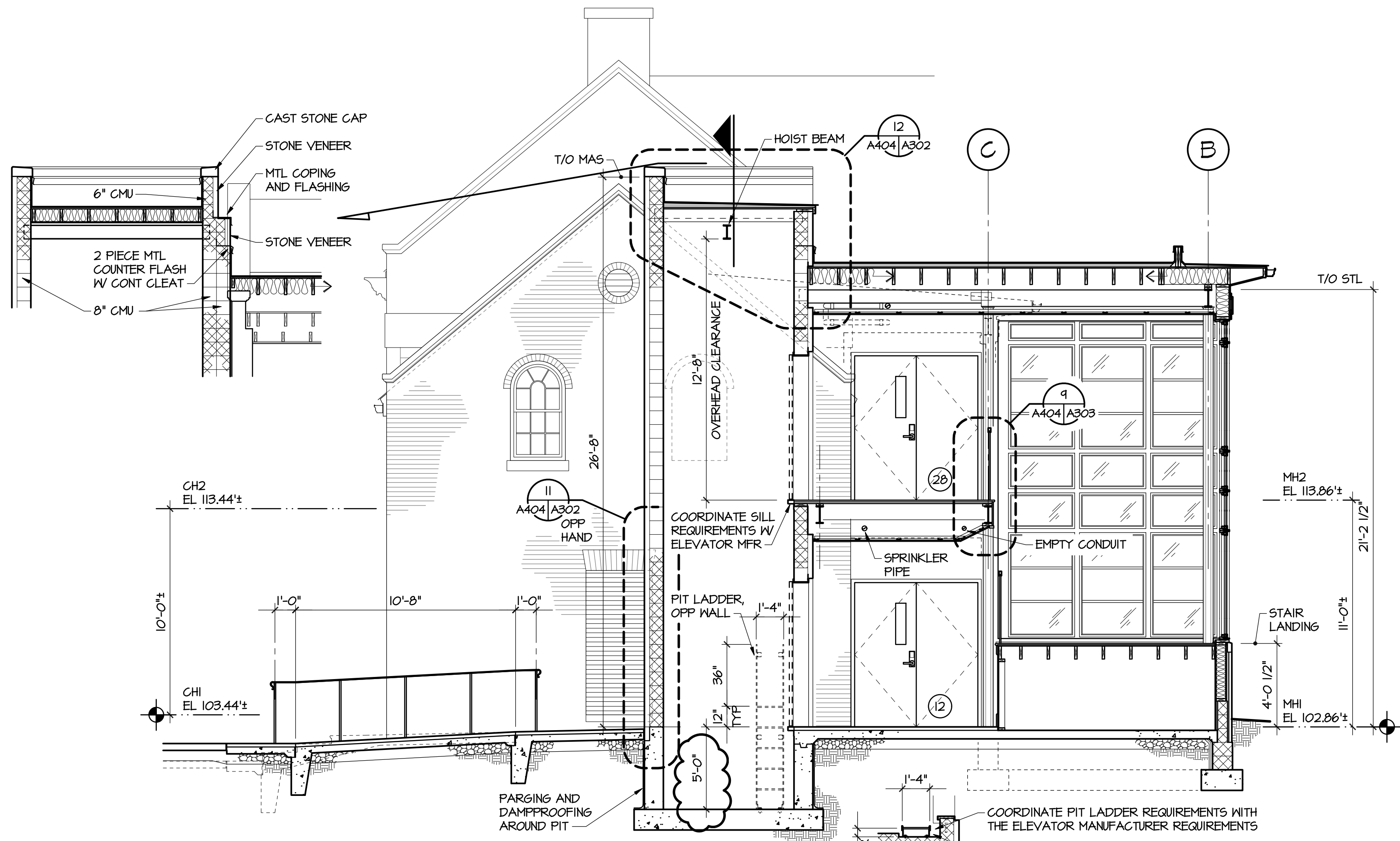
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ARCHITECTURAL
 INTERIOR ELEVATIONS /
 SECTIONS

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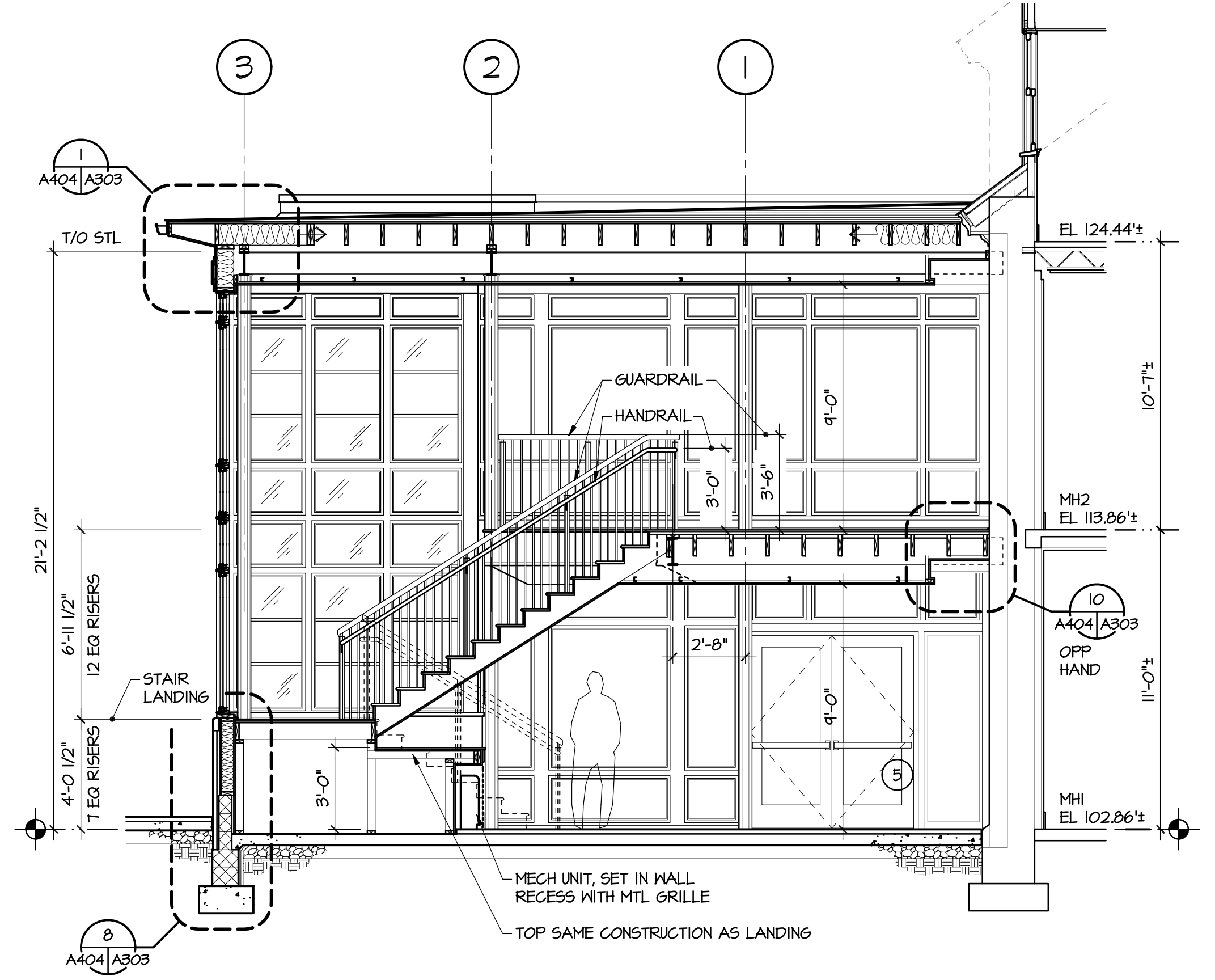
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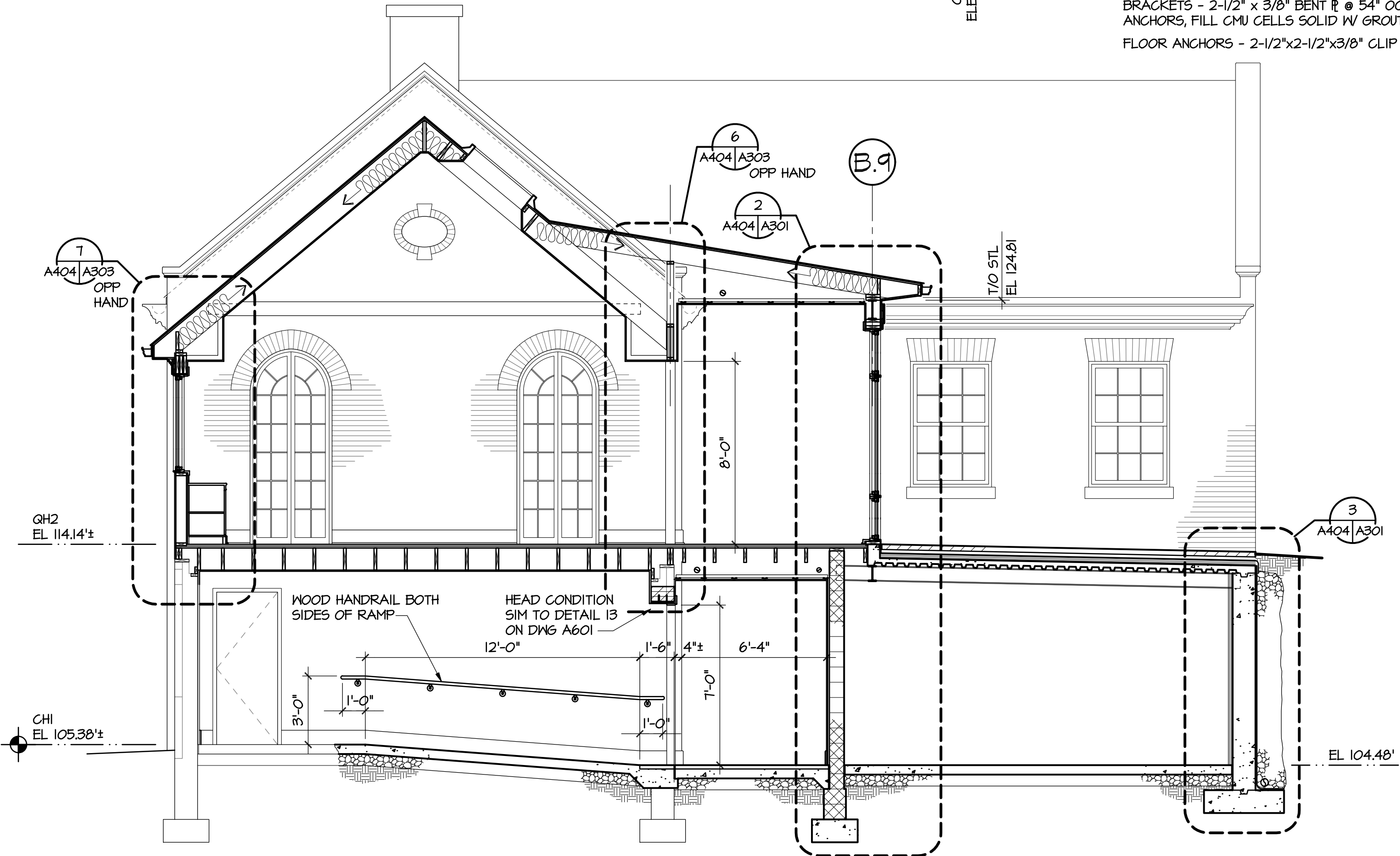
C BUILDING SECTION
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COORDINATE PIT LADDER REQUIREMENTS WITH THE ELEVATOR MANUFACTURER REQUIREMENTS

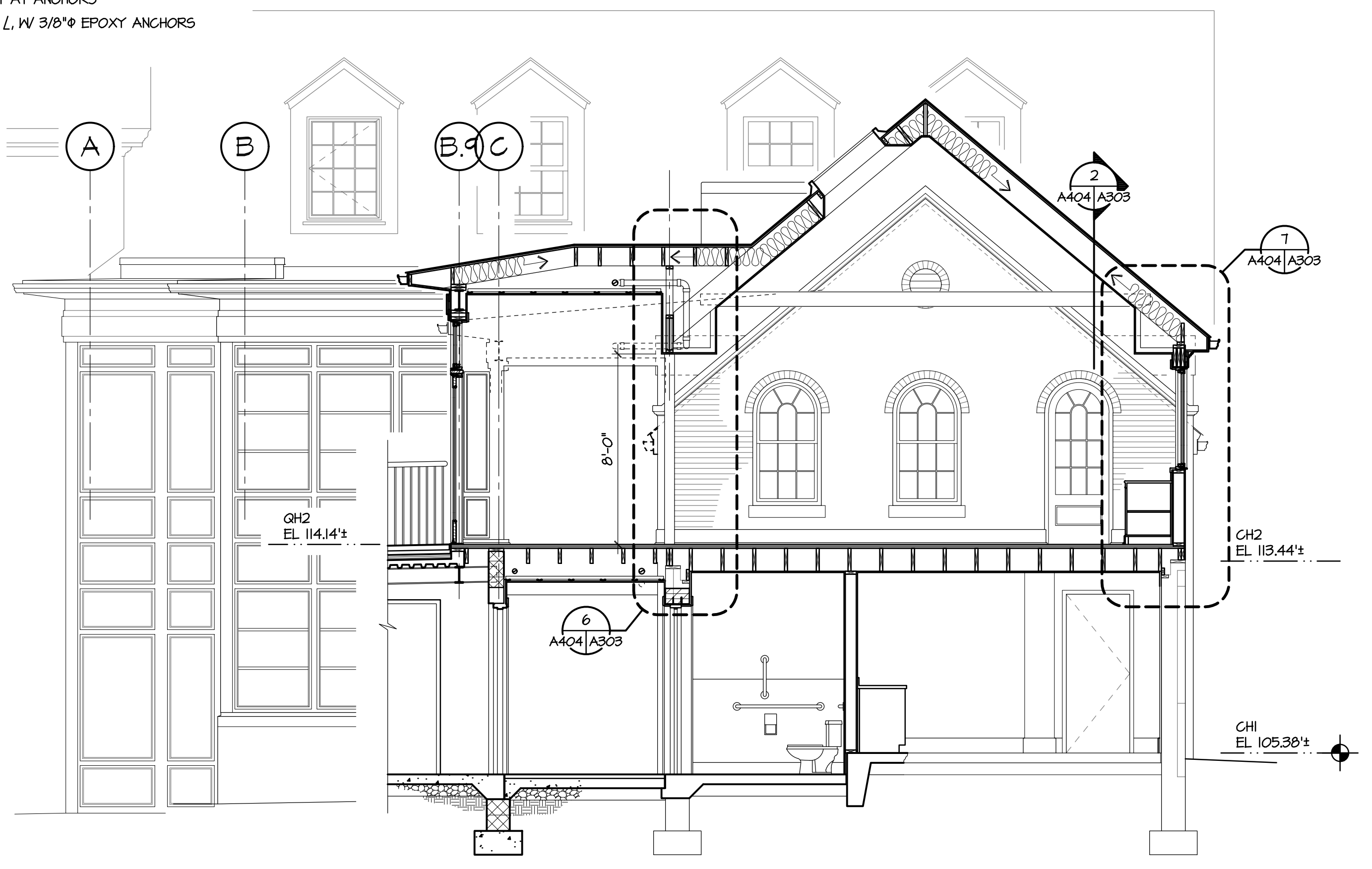
PIT LADDER CONSTRUCTION
 SIDE RAILS - 2-1/2" x 3/8" STL FLATS PUNCHED FOR RUNGS
 RUNGS - 3/4" STL BARS, WELD TO SIDE RAILS
 BRACKETS - 2-1/2" x 3/8" BENT @ 54° OC MAX, W/ 3/8" EPOXY ANCHORS, FILL CMU CELLS SOLID W/ GROUT AT ANCHORS
 FLOOR ANCHORS - 2-1/2"x2-1/2"x3/8" CLIP L, W/ 3/8" EPOXY ANCHORS



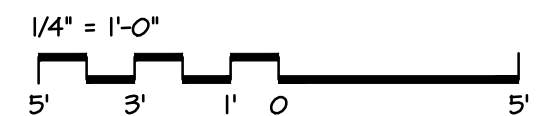
D BUILDING SECTION
A103/A404 1/4" = 1'-0"



E BUILDING SECTION
A104/A404 1/4" = 1'-0"

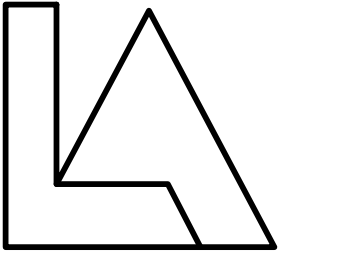


F BUILDING SECTION
A104/A404 1/4" = 1'-0"



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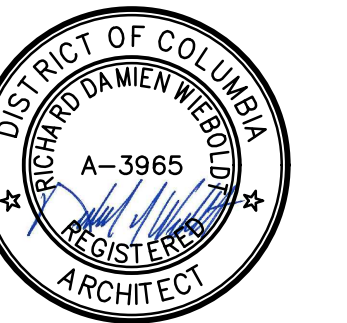
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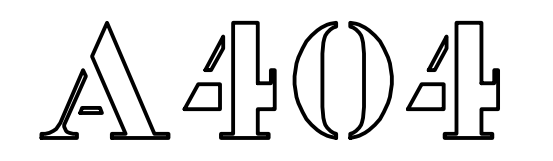
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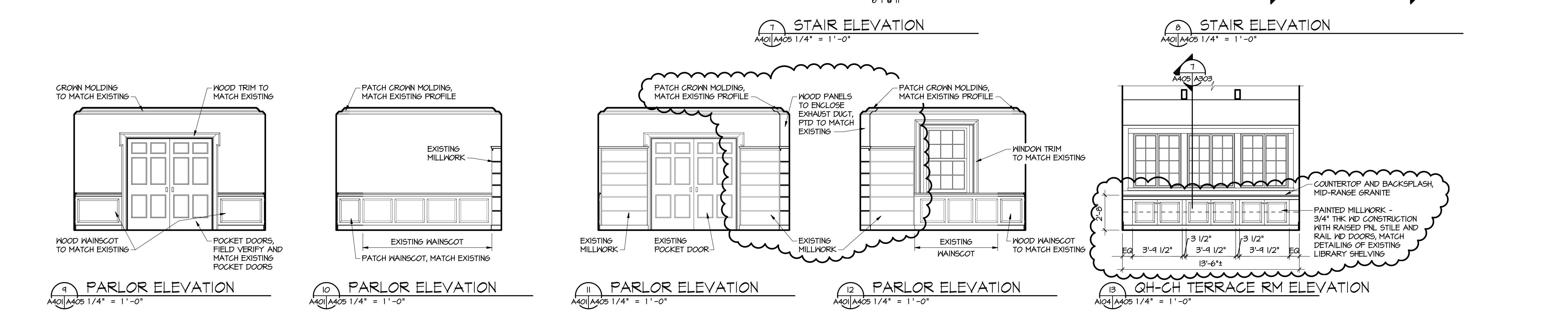
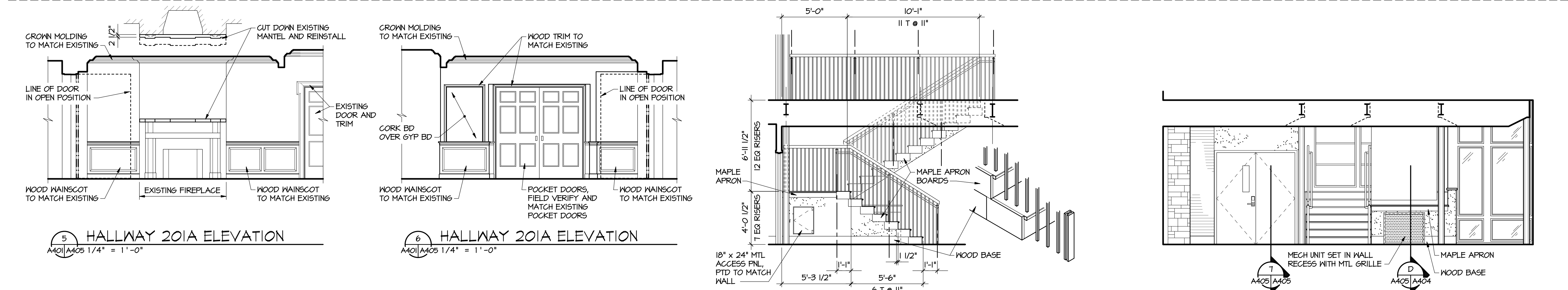
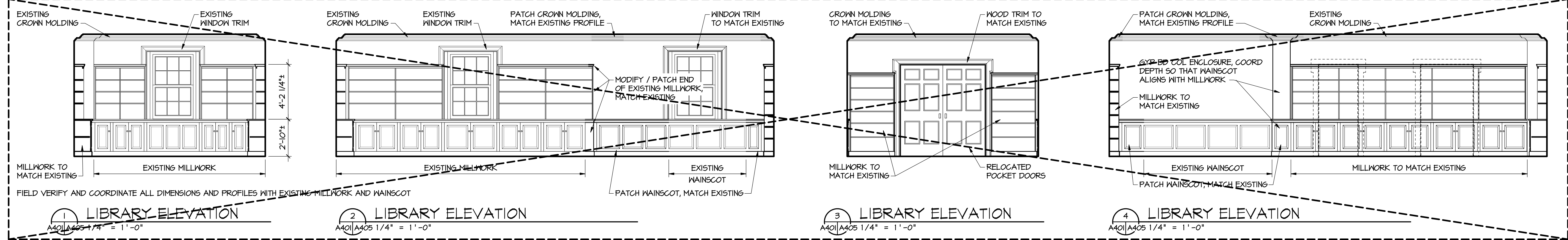
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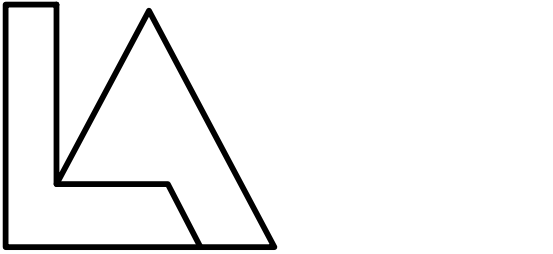
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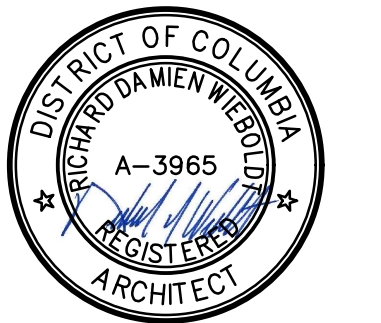
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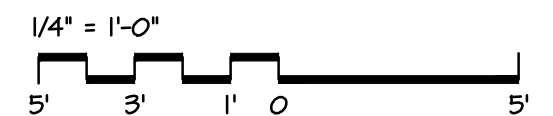
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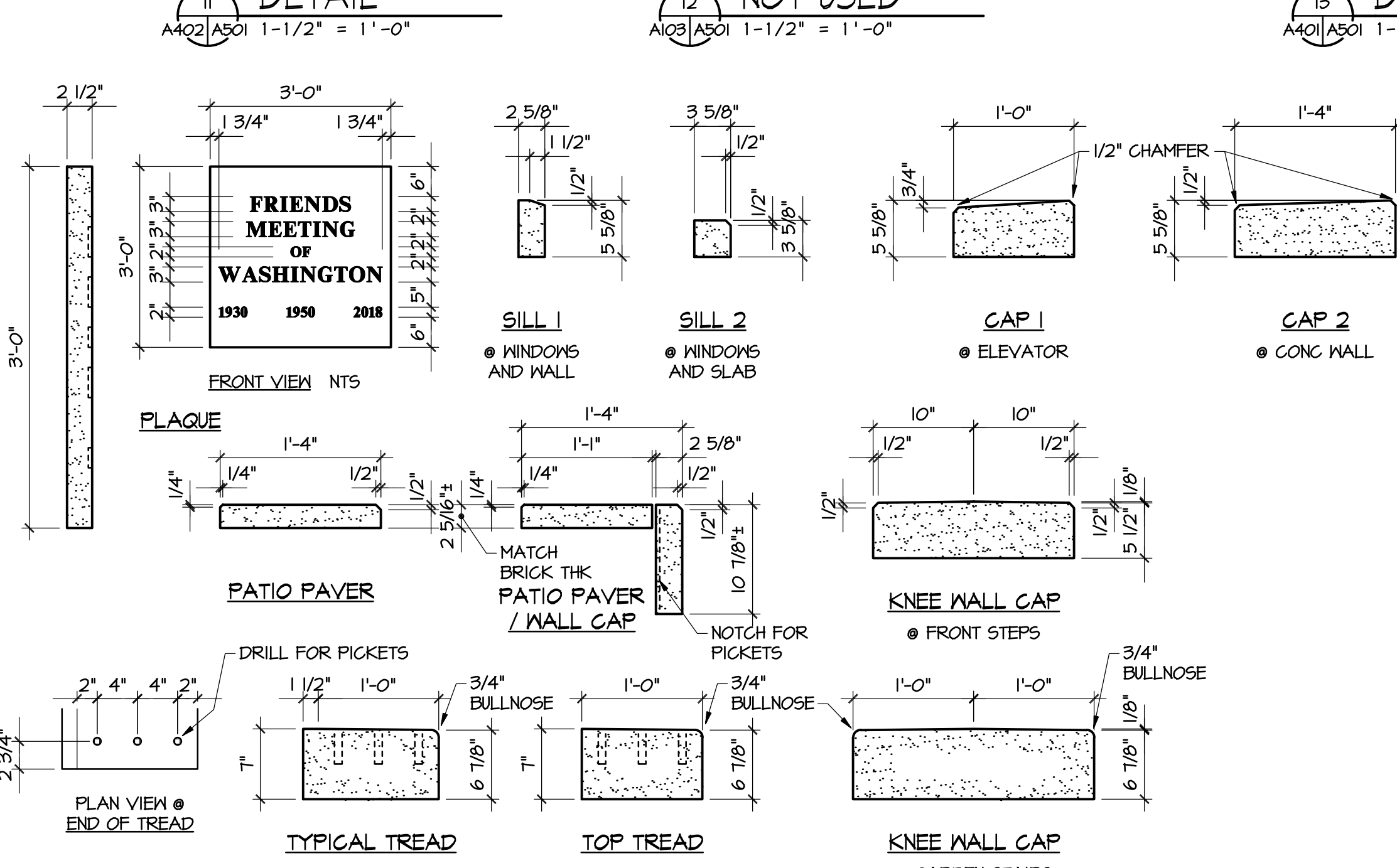
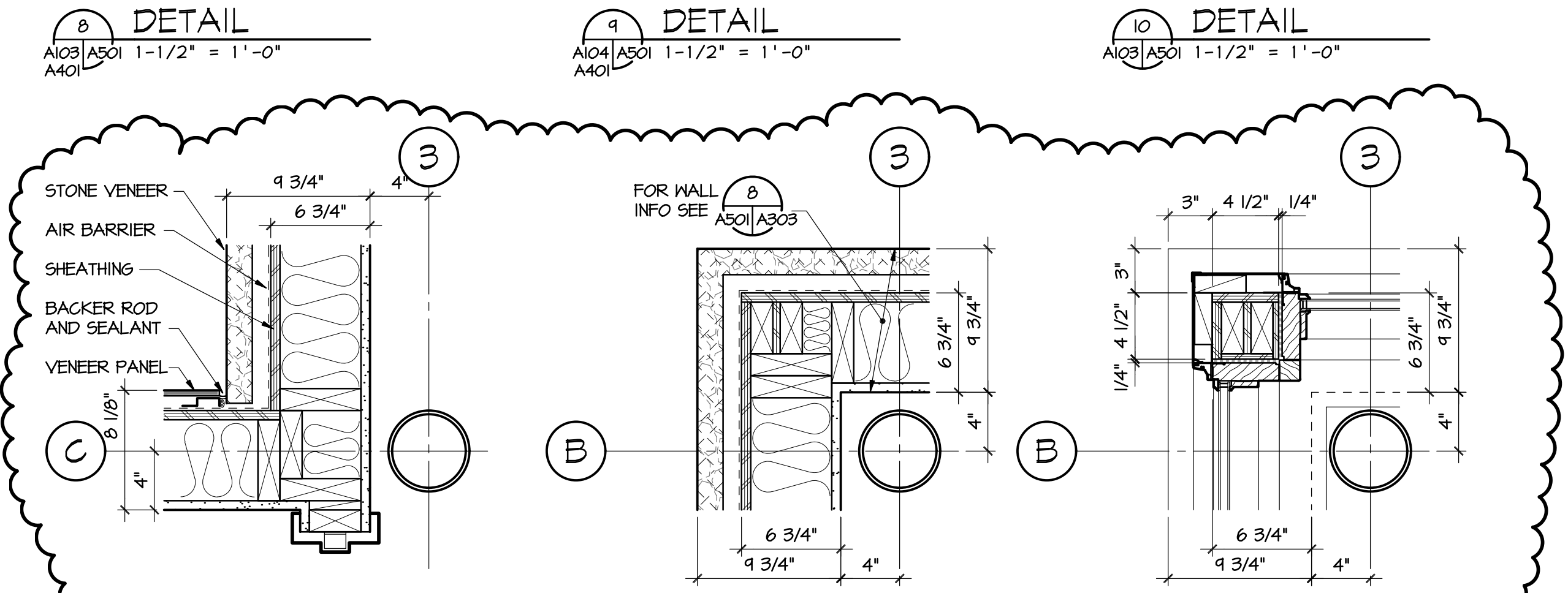
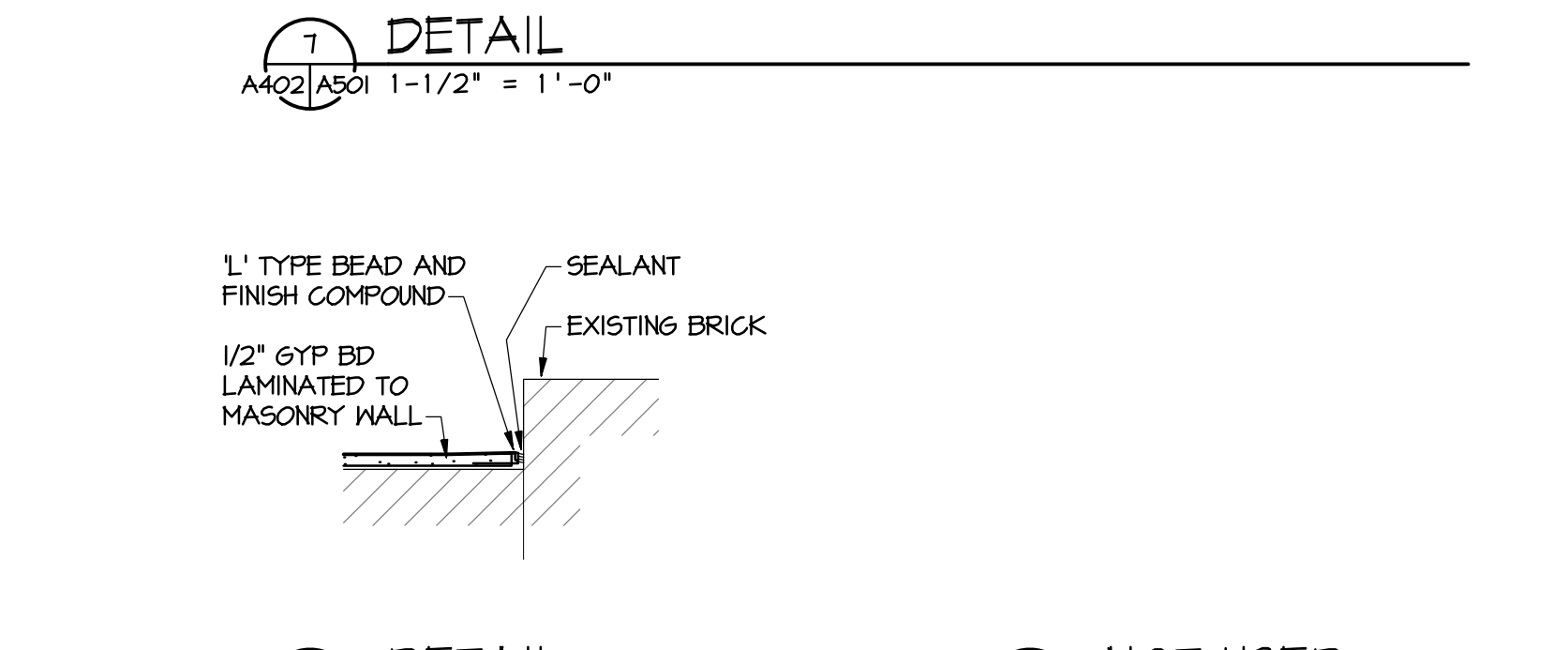
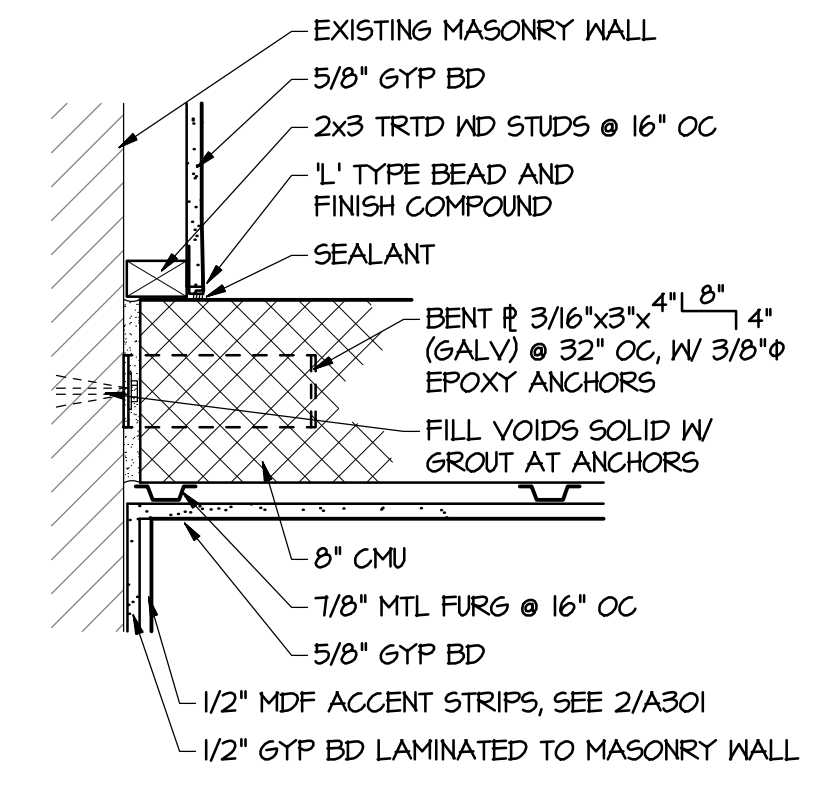
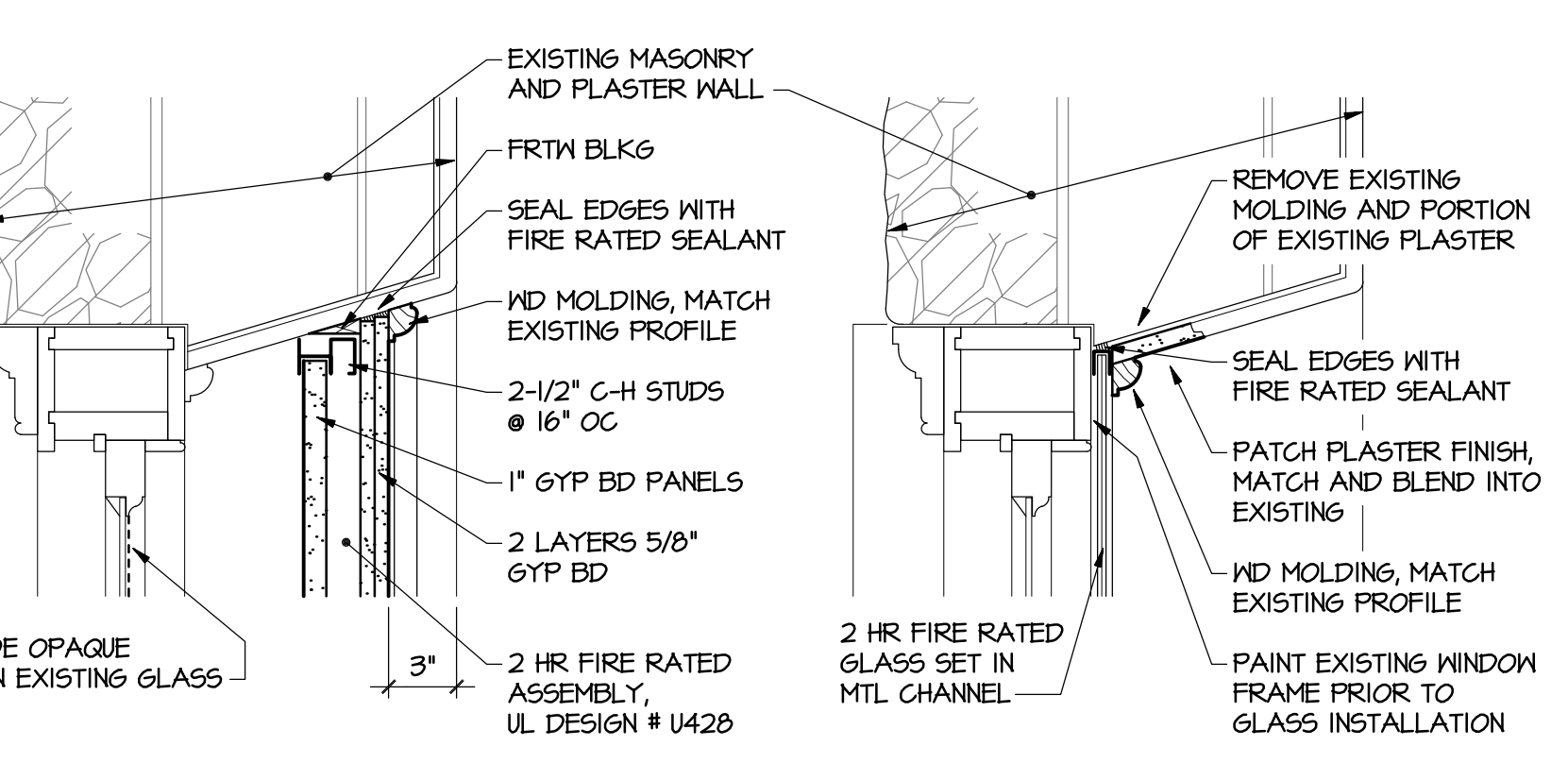
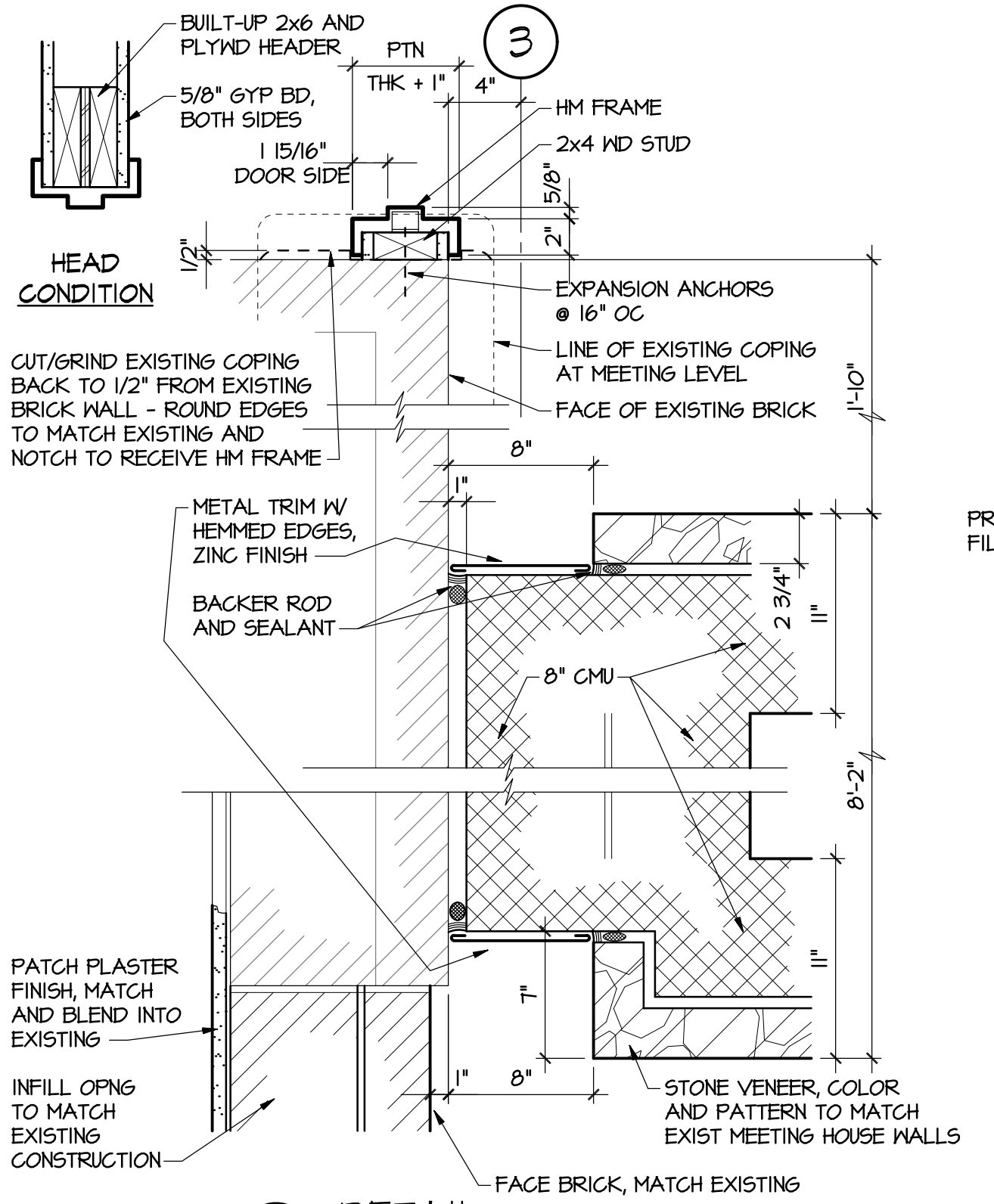
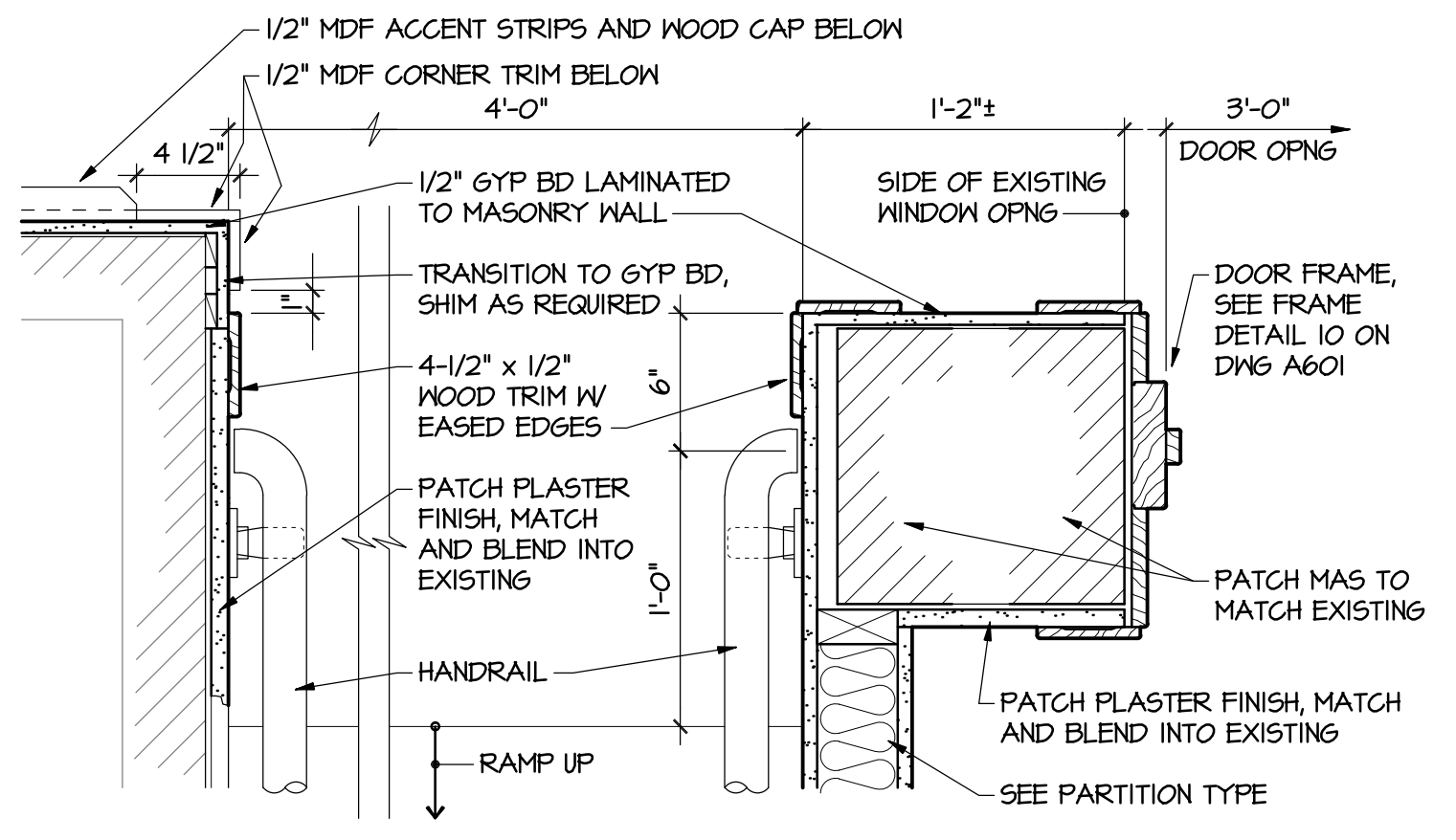
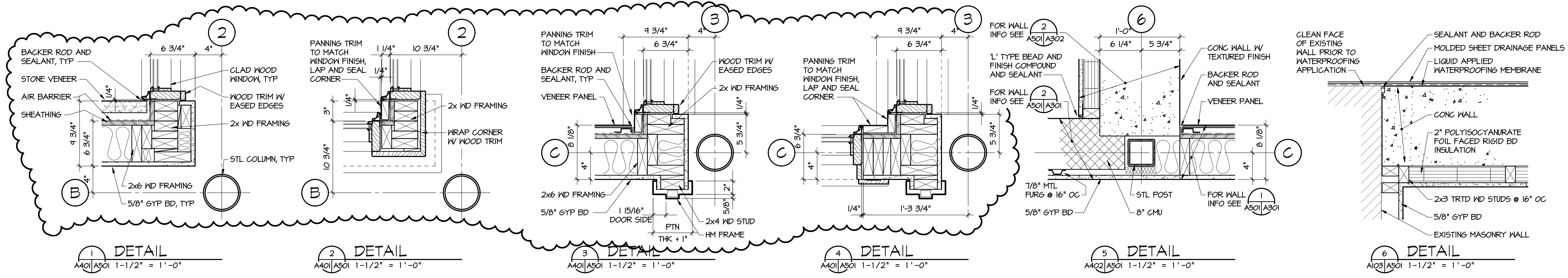
INTERIOR ELEVATIONS / SECTIONS

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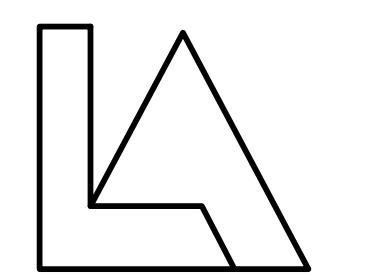


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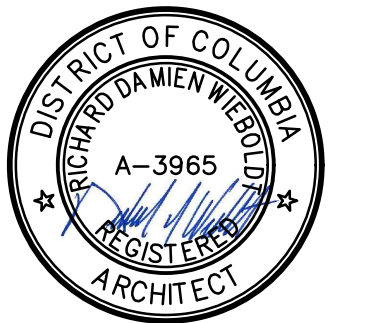
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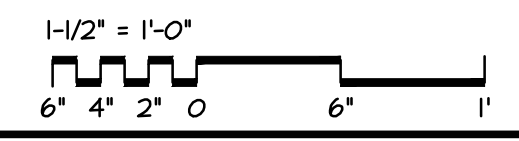
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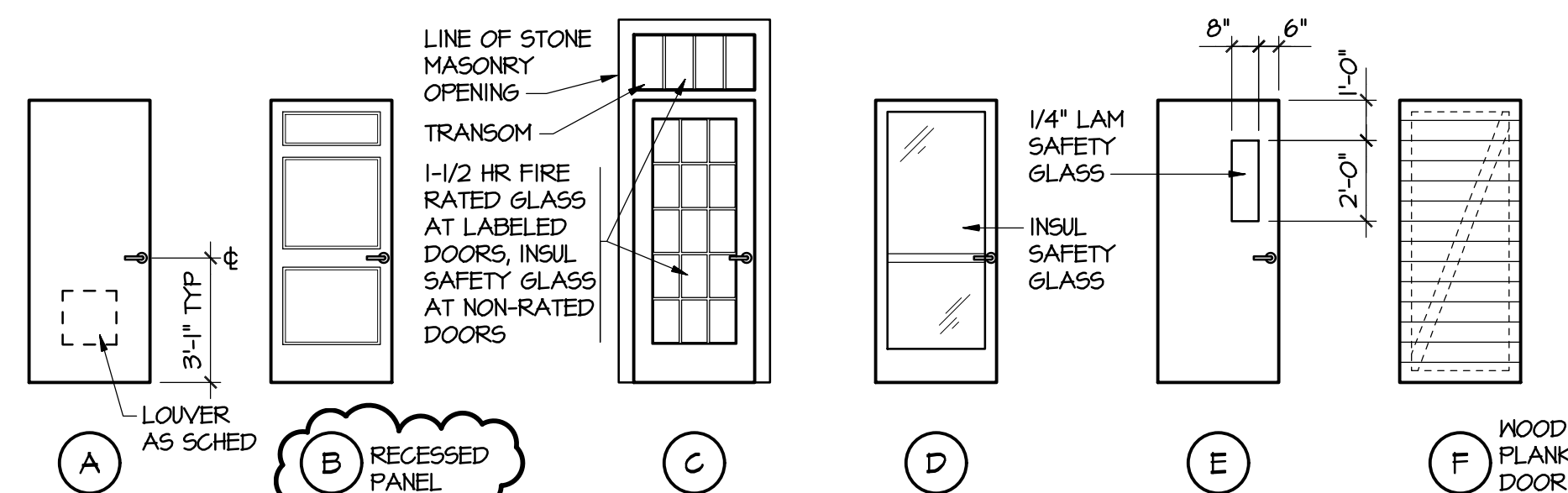
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DETAILS

DRAWING NUMBER

A501





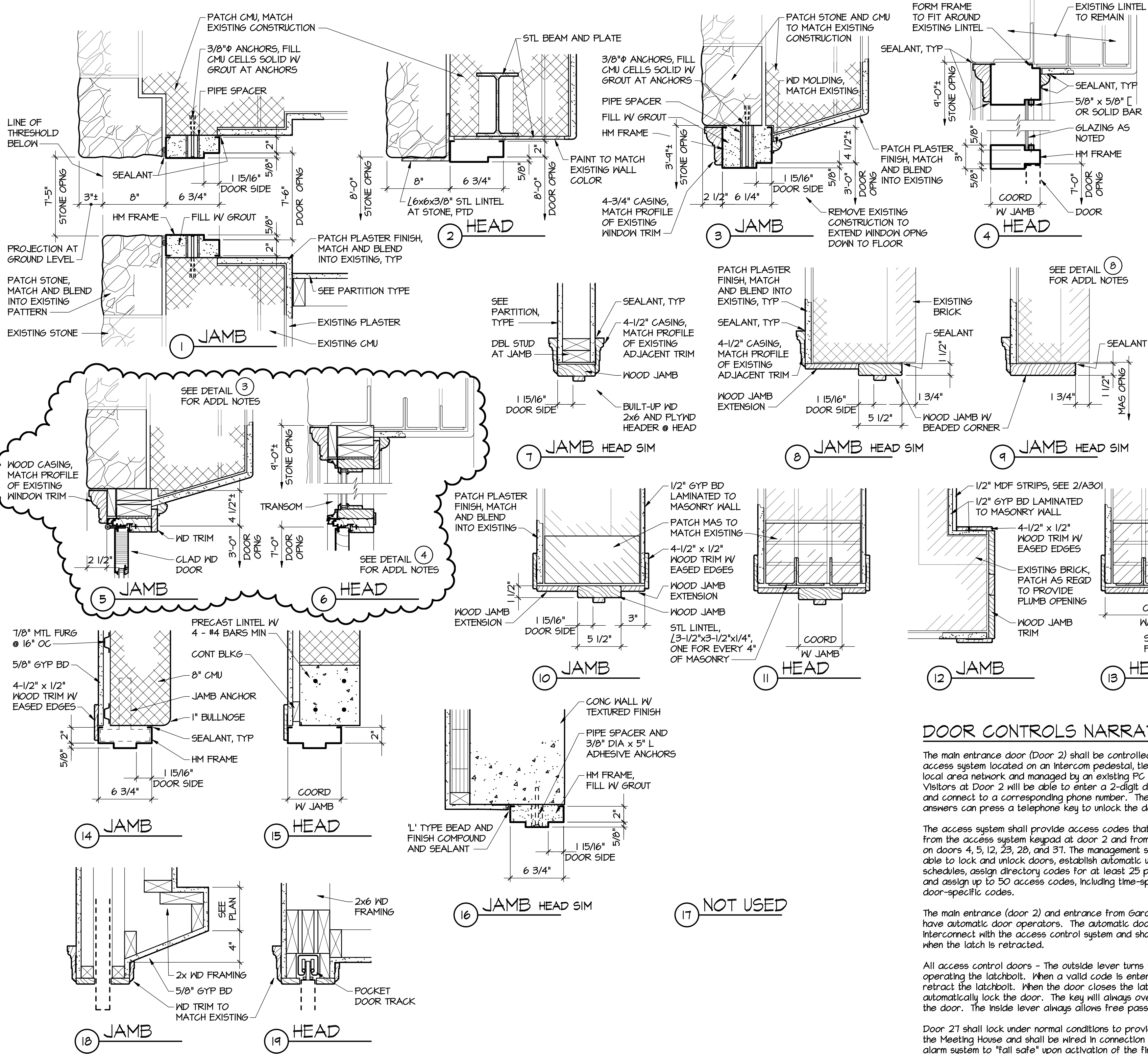
DOOR TYPES
1/4" = 1'-0"

DOOR SCHEDULE NOTES

- ALL DOORS ARE 1-3/4" THICK UNLESS OTHERWISE NOTED.
- UNDERCUT ALL INTERIOR DOORS TO CLEAR NEW AND EXISTING FINISHES BY 1/2", UNLESS OTHERWISE NOTED.
- AT DOORS 4, 12, 21, & 28, PREP ACTIVE LEAF FOR INSTALLATION OF WIRING FROM THE ELECTRIFIED HINGE TO THE LOCKSET AND ACCESS CONTROL DEVICE.
- SEE DRAWING A604 FOR THRESHOLD DETAILS.
- REINSTALL EXISTING DOOR AND SIDELIGHTS, PROVIDE NEW DOOR AND SIDELIGHTS IF EXISTING CANNOT BE SALVAGED.
- U FACTOR AT DOOR 16 TO BE 0.10 OR LESS.

DOOR SCHEDULE

NO.	SIZE	DOOR TYPE	DOOR MATL.	FRAME MATL.	JAMB DET.	HEAD DET.	LABEL	HDW SET NO.	THR DET.	LOUVER	REMARKS
GROUND LEVEL											
1	EXISTING	-	-	-	-	-	-	-	-	-	
2	PR 3'-0" x 8'-1"	D	*	*	*	*	-	12	*	-	* METAL CLAD WOOD DOOR, SEE B/A602
3	3'-0" x 7'-0"	C	HM	HM	3	4	-	1	1	-	
4	PR [3'-6" + 4'-0"] x 8'-0"	B	HM	HM	1	2	-	8	1	-	4'-0" LEAF IS INACTIVE
5	PR 3'-0" x 7'-2"	D	*	*	*	*	-	13	*	-	* METAL CLAD WOOD DOOR, SEE C/A602
6	3'-0" x 7'-0"	C	WD*	WD*	5	6	-	6	2	-	* METAL CLAD WOOD DOOR
7	3'-0" x 7'-0"	C	WD*	WD*	5	6	-	6	2	-	* METAL CLAD WOOD DOOR
8	3'-0" x 7'-0"	C	WD*	WD*	5	6	-	6	2	-	* METAL CLAD WOOD DOOR
9	EXISTING	-	-	-	-	-	-	-	-	-	EXISTING DOOR W/ GLASS
10	EXISTING	-	-	-	-	-	-	-	-	-	EXISTING DOOR W/ NO GLASS
11	3'-6" x 7'-0"	F	WD	WD	-	-	-	-	-	-	TRASH AREA GATE
12	PR 3'-0" x 7'-0"	E + A	HM	HM	*	*	-	7	3	-	* SEE 3/A501 & 13/A501
13	PR 2'-6" x 7'-0"	B	ND	ND	7	7 SIM	-	4	??	-	
14	3'-1 1/2" x 7'-4 1/2"	B	WD	WD	8	8 SIM	-	2	5A	-	
15	PR 3'-0" x 7'-3"	D	*	*	*	*	-	10	-	-	* METAL CLAD WOOD DOOR, SEE M/A603
16	PR 3'-0" x 7'-0"	A	HM	HM	16	16 SIM	-	5	6	-	
17	4'-0" x 7'-0"	A	HM	HM	14	15	-	1	7	-	
18	3'-0" x 7'-0"	B	ND	ND	10	11	-	3	5	-	
19	3'-0" x 7'-0"	B	ND	ND	10	11	-	2	5	-	
20	4'-0" x 7'-0"	-	-	WD	12	13	-	5	-	-	FRAME ONLY, NO DOOR
21	EXISTING *	-	-	-	-	-	-	-	-	-	* SEE NOTE 5
22	EXISTING	-	-	-	-	-	-	-	-	-	
23	EXISTING	-	-	-	-	-	-	-	-	-	* REPLACE LOCKSET W/ ACCESS CONTROL DEVICE
MEETING LEVEL											
26	PR 3'-4 1/2" x 7'-0 1/2"	* ND	WD	WD	18	19	-	14	8	-	* MATCH EXISTING POCKET DOORS
27	PR [3'-6" + 4'-0"] x 8'-0"	B	HM	HM	1	2	-	9	9	-	4'-0" LEAF IS INACTIVE
28	PR 3'-0" x 7'-0"	E + A	HM	HM	*	*	-	7	10	-	* SEE 4/A501 & 13/A501
29	2'-10 1/2" x 7'-2 1/2" MO	-	-	WD	9	9 SIM	-	-	11	-	FRAME ONLY, NO DOOR
30	EXISTING	-	-	-	-	-	-	-	12	-	
31	EXISTING	-	-	-	-	-	-	-	13	-	
32	EXISTING	-	-	-	-	-	-	-	13	-	
33	13'-6" x 8'-0"	*	*	*	*	*	-	*	*	-	* FOLDING WALL ASSEMBLY
34	PR 3'-0" x 7'-1"	D	*	*	*	*	-	10	*	-	* METAL CLAD WOOD DOOR, SEE J/A603
35	EXISTING	-	-	-	-	-	-	-	14	-	
36	EXISTING	-	-	-	-	-	-	-	14	-	
37	PR 3'-0" x 7'-1"	D	*	*	*	*	-	11	*	-	* METAL CLAD WOOD DOOR, SEE J/A603
38	3'-6 1/2" x 8'-0" MO	-	-	WD	9	9 SIM	-	-	11	-	FRAME ONLY, NO DOOR



FRAME DETAILS
1-1/2" = 1'-0"

DOOR CONTROLS NARRATIVE

The main entrance door (Door 2) shall be controlled by a telephone access system located on an intercom pedestal, tied to the existing local area network and managed by an existing PC on that network. Visitors at Door 2 will be able to enter a 2-digit directory code and connect to a corresponding phone number. The person who answers can press a telephone key to unlock the door.

The access system shall provide access codes that permit access from the access system keypad at door 2 and from digital keypads on doors 4, 5, 12, 23, 28, and 37. The management software shall be able to lock and unlock doors, establish automatic unlocking schedules, assign directory codes for at least 25 phone numbers and assign up to 50 access codes, including time-specific and door-specific codes.

The main entrance (door 2) and entrance from Garden (door 5) shall have automatic door operators. The automatic door operator shall interconnect with the access control system and shall energize only when the latch is retracted.

All access control doors - The outside lever turns freely without operating the latchbolt. When a valid code is entered the lever will retract the latchbolt. When the door closes the latch will automatically lock the door. The key will always override and unlock the door. The inside lever always allows free passage.

Door 21 shall lock under normal conditions to provide security for the Meeting House and shall be wired in connection with the fire alarm system to "fall safe" upon activation of the fire alarm to allow egress through Hallway 201A to the exit door.

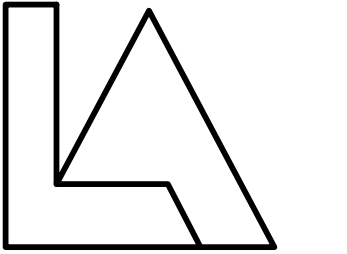
HARDWARE SETS

- SEE A604 FOR ADDITIONAL INFORMATION
- SET 1**
3 ea Hinges
1 ea Lockset (Classroom F84)
1 ea Closer
1 ea Door Stop
- SET 2**
3 ea Hinges
1 ea Lockset (Classroom F84)
1 ea Door Stop
- SET 3**
3 ea Hinges
1 ea Lockset (Privacy F76)
1 ea Closer
1 ea Door Stop
1 ea Kick Plate
- SET 4**
6 ea Hinges
1 ea Lockset (Storeroom F86)
1 pr Manual Flush Bolts
2 ea Door Stops
- SET 5**
6 ea Hinges
1 ea Lockset (Storeroom F86)
1 pr Manual Flush Bolts
1 ea Closer w/ Hold Open
1 ea Surface Mt'd Overhead Door Holder and Stop
1 ea Astragal
1 set Weatherstripping
- SET 6**
3 ea Hinges
1 ea Narrow Stille Rim Exit Device, (Entrance by Lever, Key Locks or Unlocks Lever)
1 ea Closer w/ Hold Open
1 set Weatherstripping
1 ea Kick Plate
- SET 7** Foyer Side Is Secure Side
6 ea Hinges (1 Electric)
1 ea Electric Lockset w/ Access Control (Fall Secure)
1 pr Manual Flush Bolts
2 ea Closers w/ Hold Open
2 ea Door Stops
No visible hardware on inactive leaf.
- SET 8** Foyer Side Is Secure Side
8 ea Full Mortise, Heavy Weight, Anti-friction Bearing, Swing Clear Hinges (1 Electric), ANSI/BHMA A156.1 A812
1 ea Electric Lockset w/ Access Control (Fall Secure)
1 pr Manual Flush Bolts
2 ea Closers w/ Hold Open
2 ea Door Stops
No visible hardware on inactive leaf.
- SET 9** Foyer Side Is Secure Side
8 ea Full Mortise, Heavy Weight, Anti-friction Bearing, Swing Clear Hinges (1 Electric), ANSI/BHMA A156.1 A812
1 ea Electric Lockset w/ Access Control (Fall Safe)
1 pr Manual Flush Bolts
2 ea Closers w/ Hold Open
2 ea Door Stops
No visible hardware on inactive leaf.
- SET 10**
6 ea Hinges
2 ea Narrow Stille Surface Vertical Rod Exit Device (Entrance by Lever, Key Locks or Unlocks Lever)
2 ea Closers
1 set Weatherstripping
2 ea Kick Plates
- SET 11**
6 ea Hinges (1 Electric)
1 ea Narrow Stille Surface Vertical Rod Exit Device w/ Access Control
1 ea Narrow Stille Surface Vertical Rod Exit Device (Entrance by Lever, Key Locks or Unlocks Lever)
2 ea Closers
2 ea Weatherstripping
2 ea Kick Plates
- SET 12**
8 ea Hinges (1 Electric)
1 ea Narrow Stille Surface Vertical Rod Exit Device w/ Access Control and Electric Latch Retraction
1 ea Narrow Stille Surface Vertical Rod Exit Device (Entrance by Lever, Key Locks or Unlocks Lever)
1 ea Automatic Door Operator
1 ea Closer
2 ea Weatherstripping
2 ea Kick Plates
- SET 13**
6 ea Hinges (1 Electric)
1 ea Narrow Stille Surface Vertical Rod Exit Device w/ Access Control and Electric Latch Retraction
1 ea Narrow Stille Surface Vertical Rod Exit Device (Entrance by Lever, Key Locks or Unlocks Lever)
1 ea Automatic Door Operator
1 ea Closer
1 set Weatherstripping
2 ea Kick Plates
- SET 14**
Pocket Door Hardware to Match Existing
- Door Top Track and Rollers
- Recessed Door Pulls



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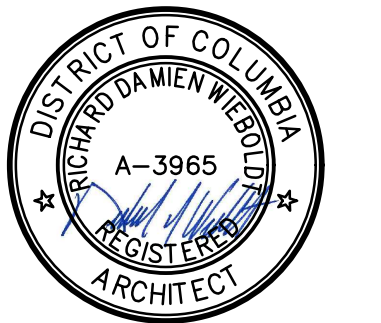
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PROJECT TITLE

FRIENDS MEETING
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NO.	DATE	DESCRIPTION
1	5-4-2018	CONSTRUCTION SET

DRAWN JDH

CHECKED RDW

DATE 12-1-2017 BID SET

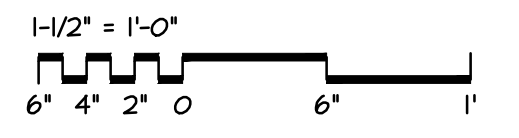
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ARCHITECTURAL

DOOR SCHEDULE
AND DETAILS

DRAWING NUMBER

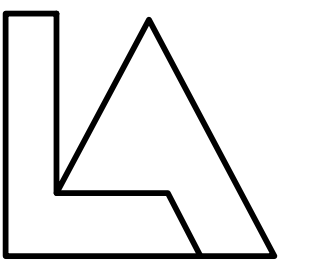
A601





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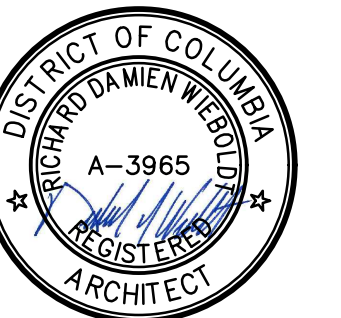
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PROJECT TITLE

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1	5-4-2018	CONSTRUCTION SET

DRAWN: **JDH**

CHECKED: **RM**

DATE: **12-1-2017** BID SET

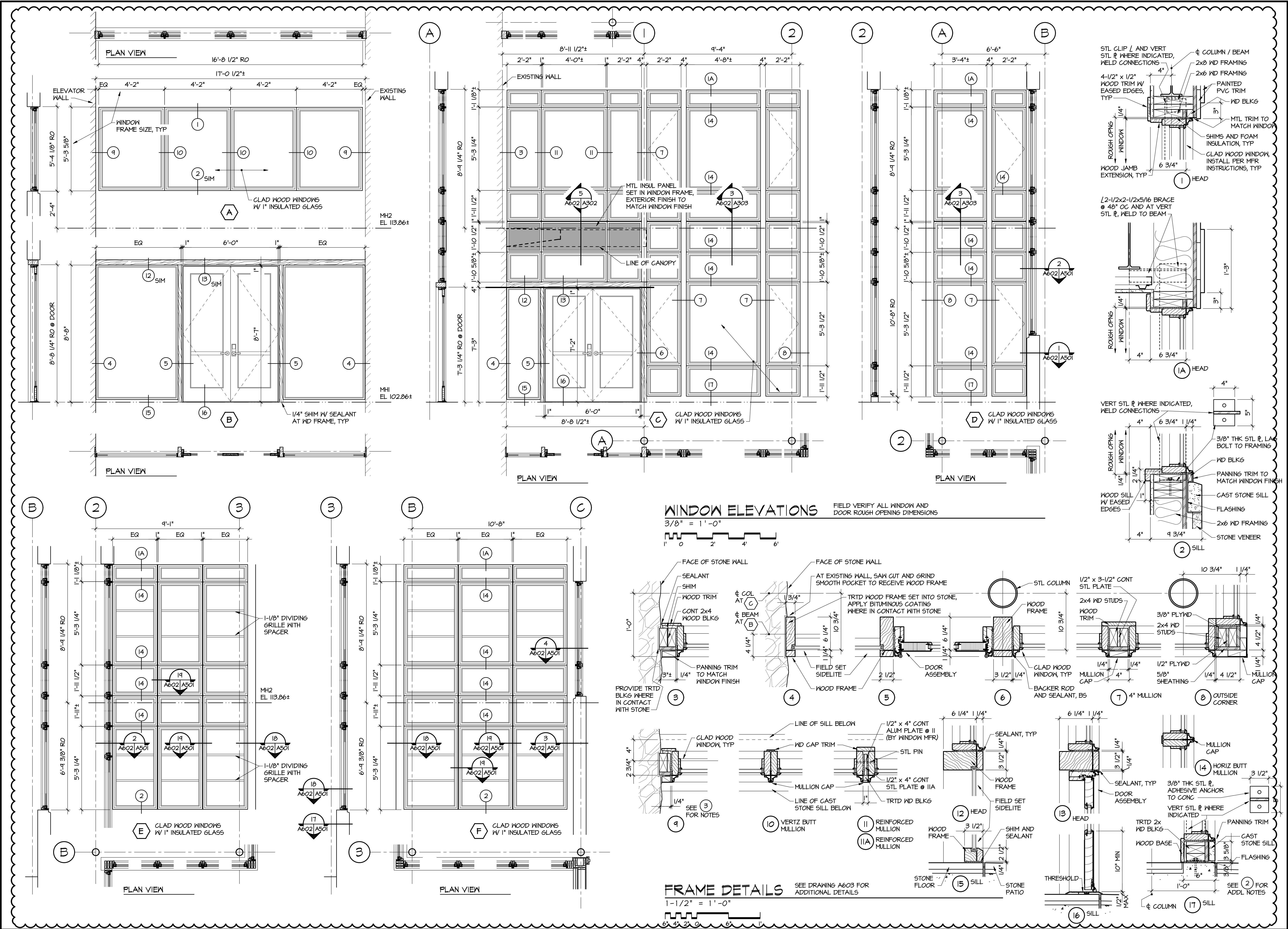
DRAWING TITLE

ARCHITECTURAL

**WINDOW / DOOR
ASSEMBLY ELEVATIONS
AND DETAILS**

DRAWING NUMBER

A602



WINDOW ELEVATIONS

FIELD VERIFY ALL WINDOW AND
DOOR ROUGH OPENING DIMENSIONS

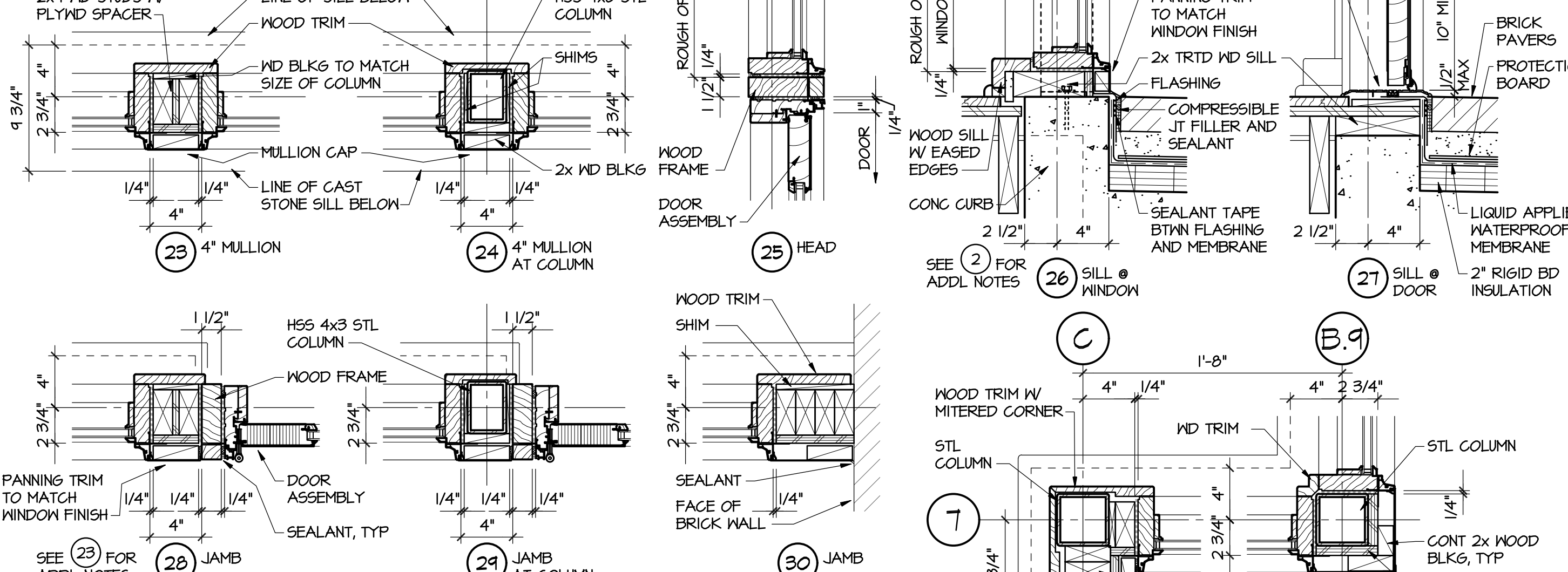
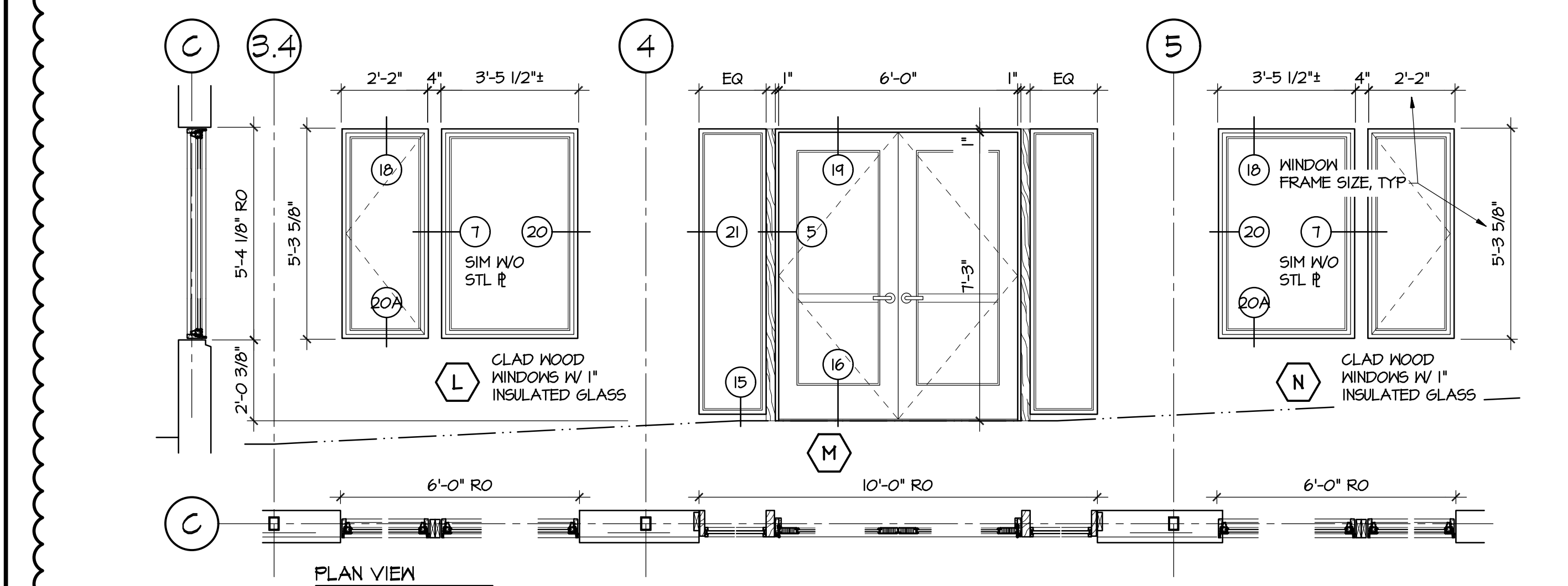
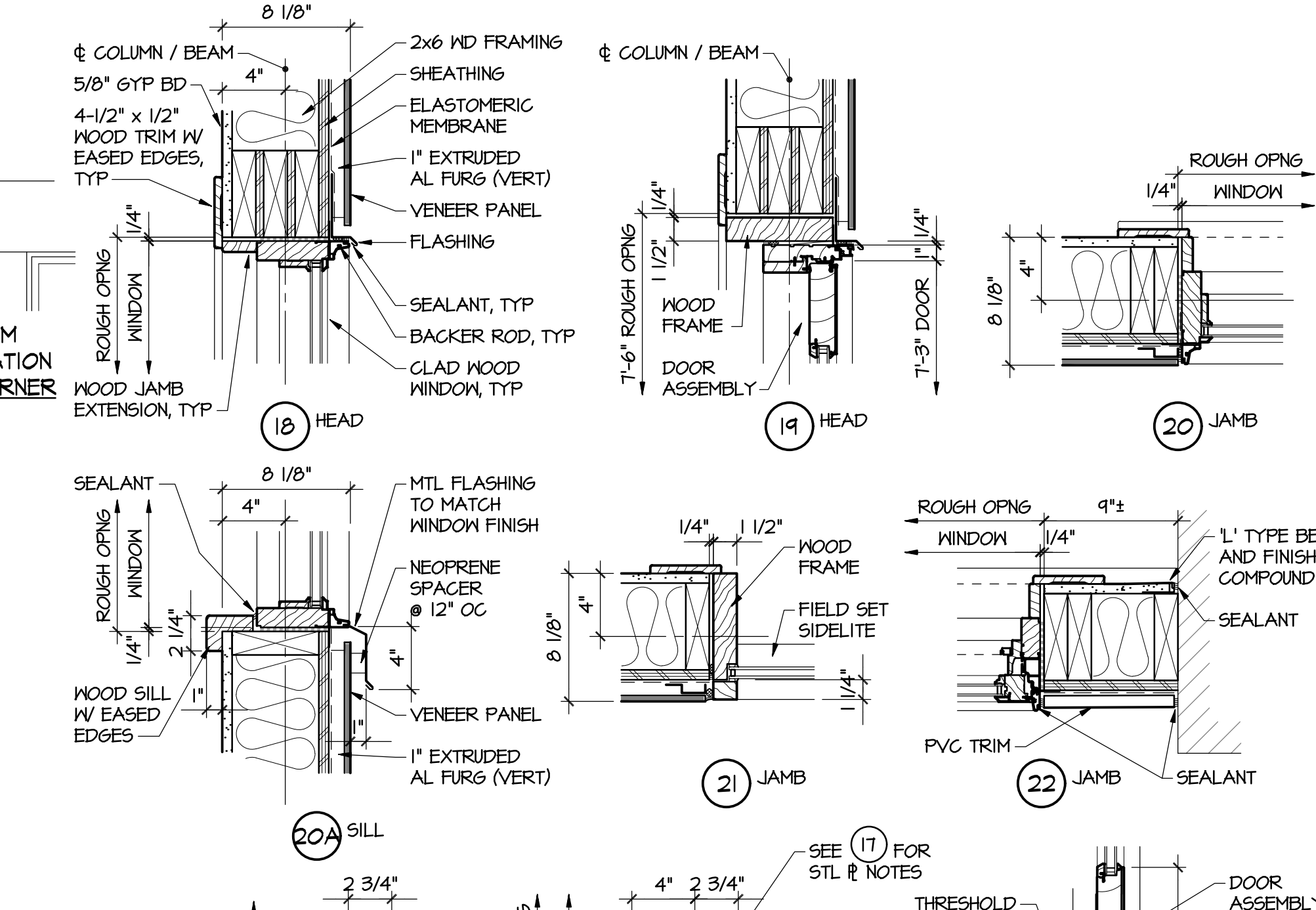
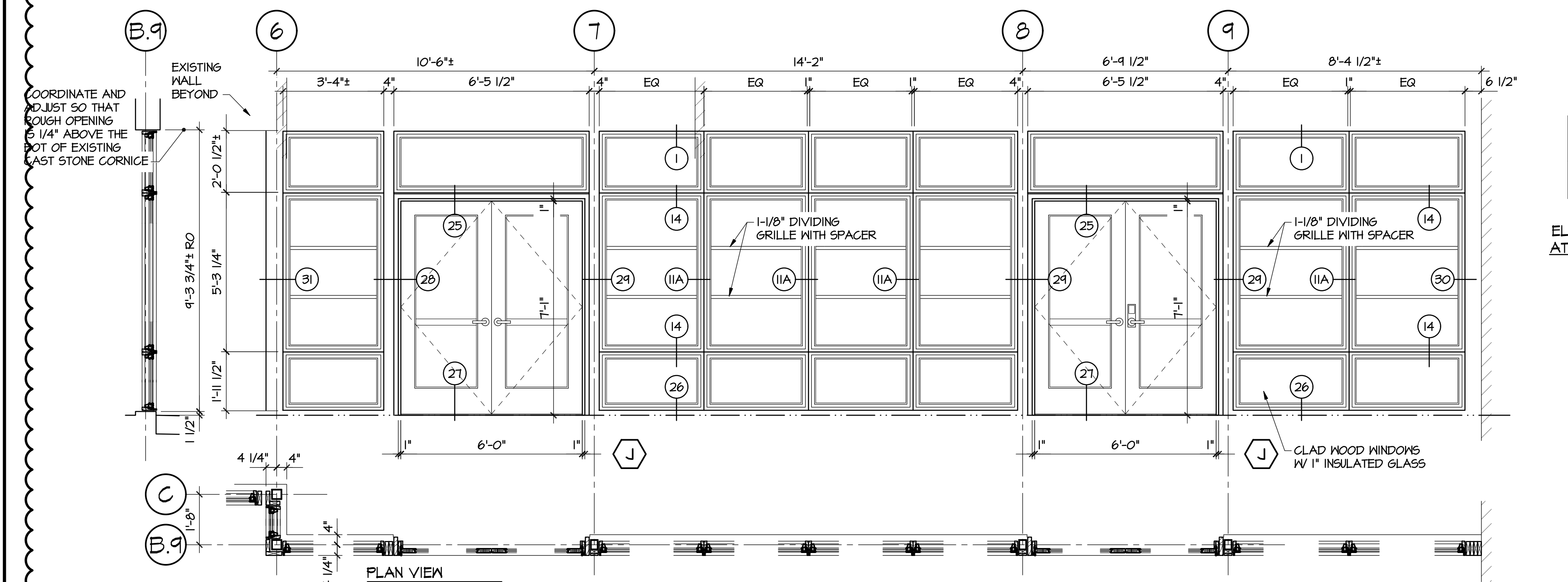
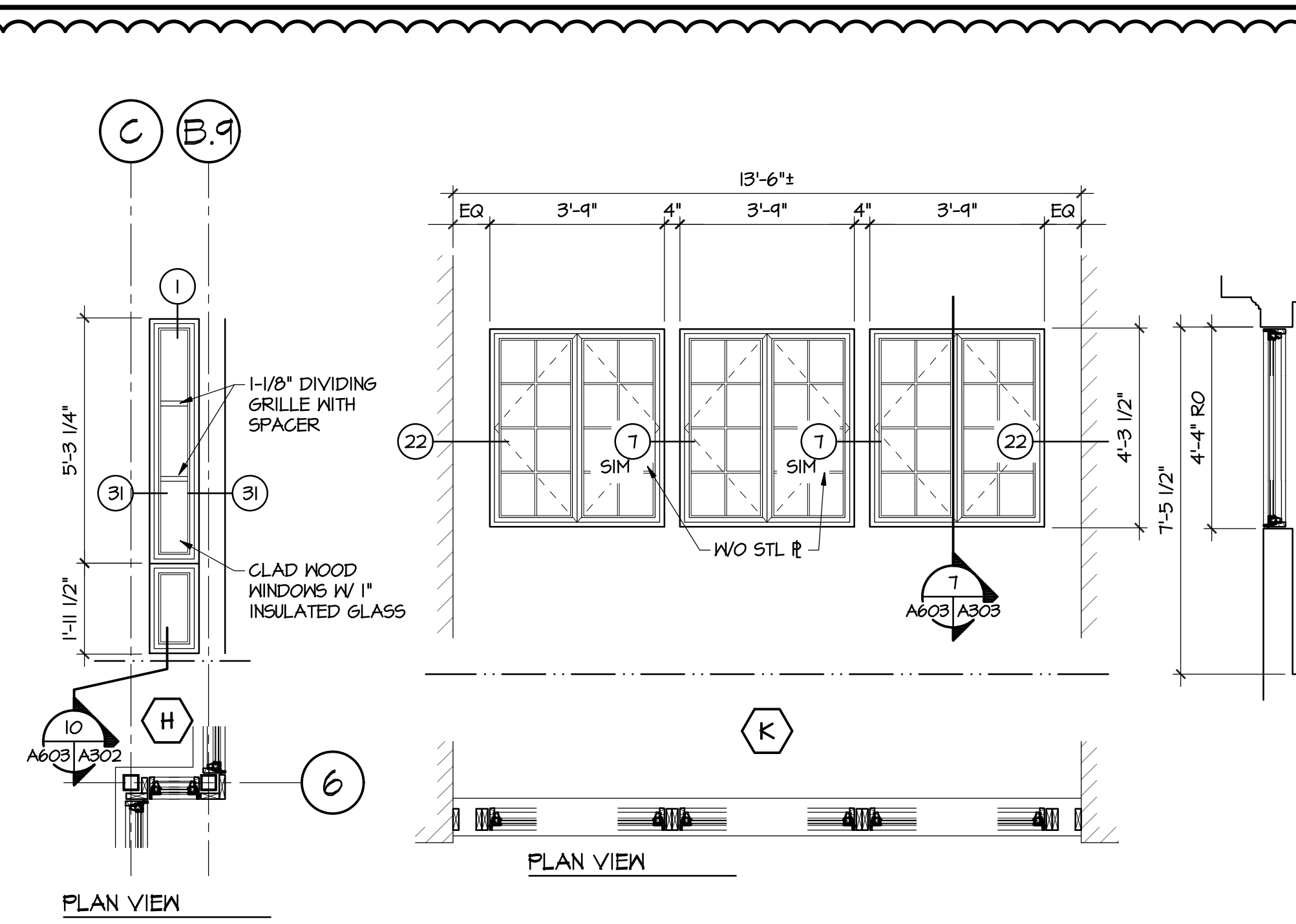
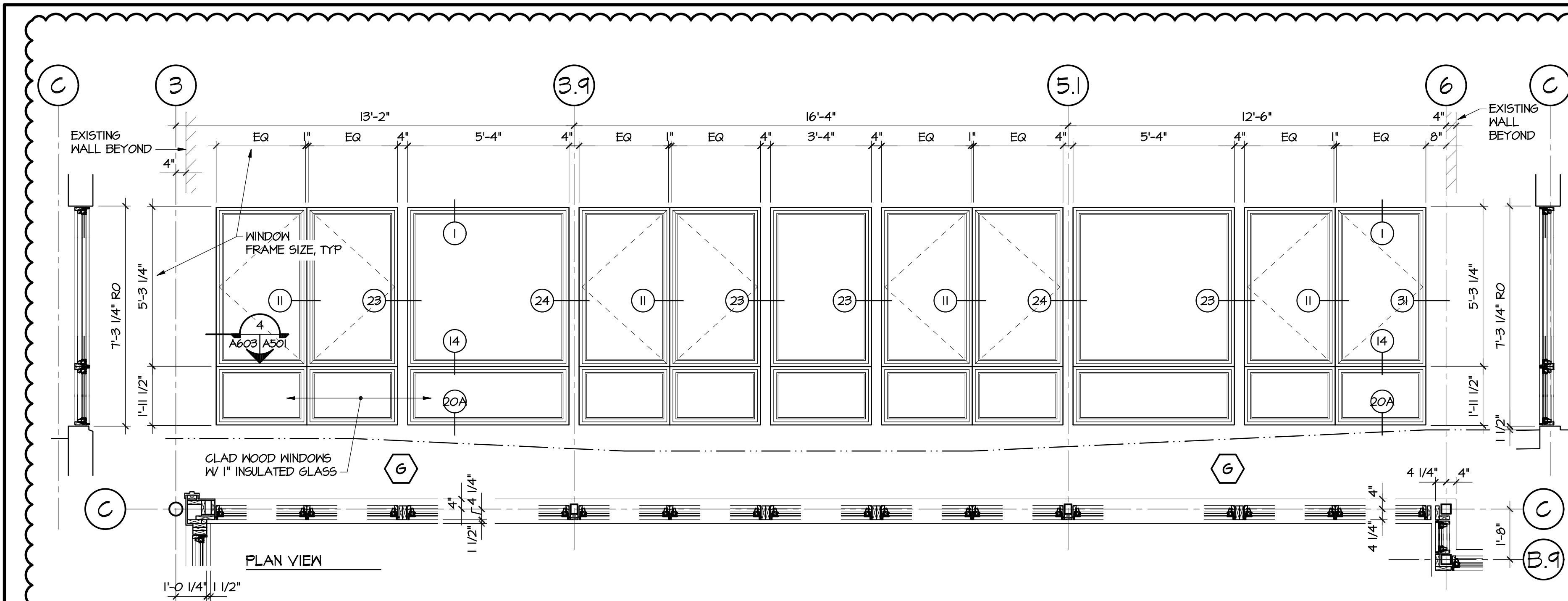


FRAME DETAILS

SEE DRAWING A603 FOR
ADDITIONAL DETAILS



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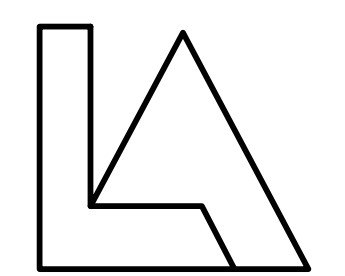
WINDOW ELEVATIONS FIELD VERIFY ALL WINDOW AND DOOR ROUGH OPENING DIMENSIONS
3/8" = 1'-0"

FRAME DETAILS SEE DRAWING A602 FOR ADDITIONAL DETAILS
1-1/2" = 1'-0"



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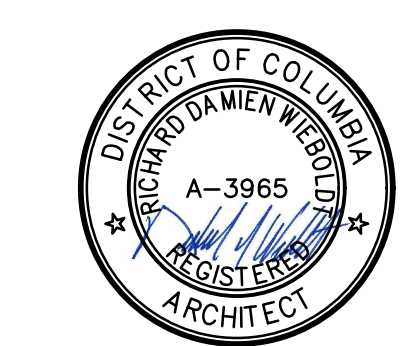
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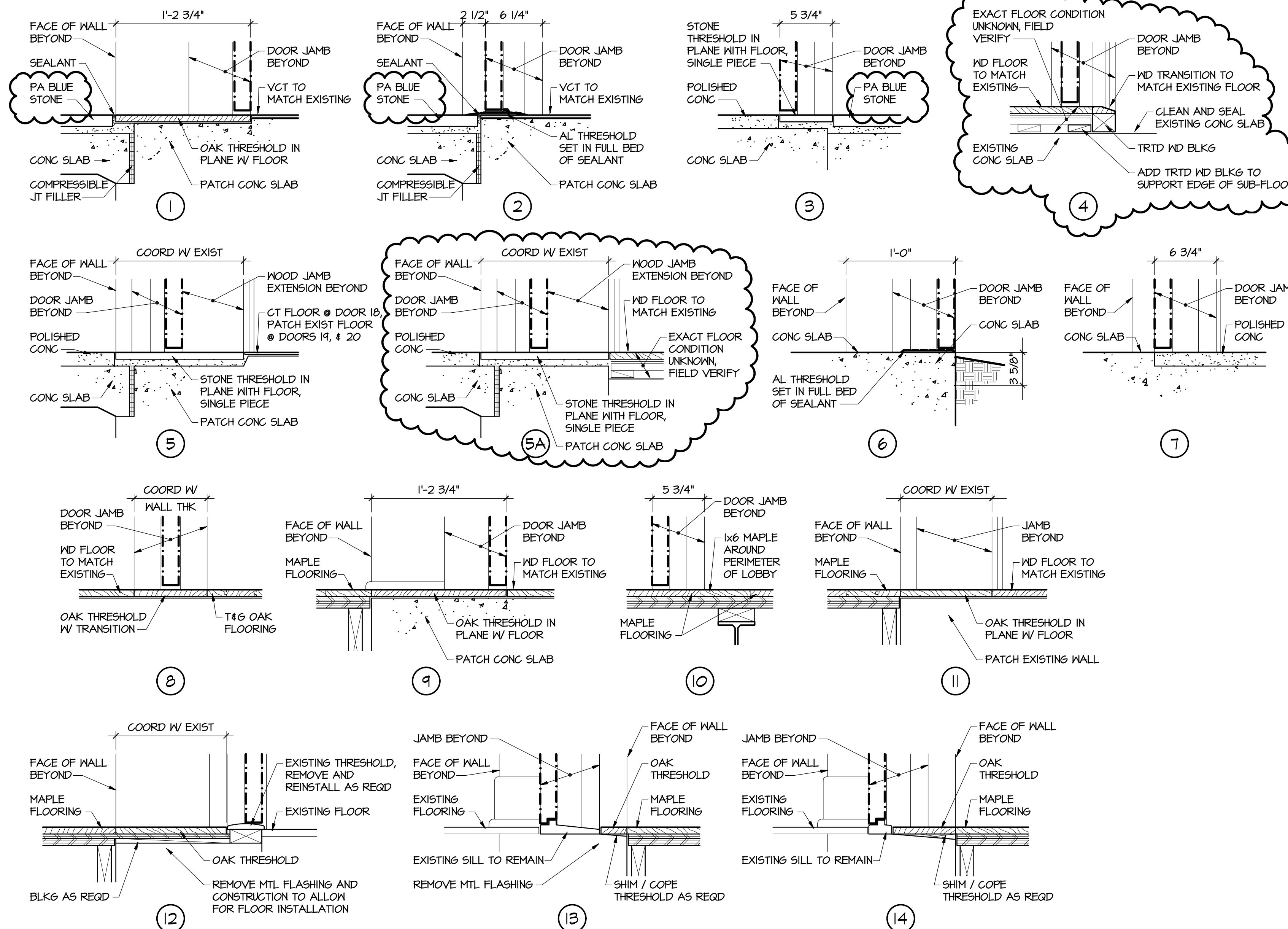
DRAWING TITLE

ARCHITECTURAL

WINDOW / DOOR
ASSEMBLY ELEVATIONS
AND DETAILS

DRAWING NUMBER

A603



THRESHOLD DETAILS
1-1/2" = 1'-0"

HOLLOW METAL DOORS AND FRAMES

- A. PROVIDE HEAVY-DUTY DOORS AND FRAMES COMPLYING WITH SDI A250.8.
- B. EXTERIOR FRAMES - 16 GAGE COLD-ROLLED STEEL, MITERED AND WELDED, GALVANNEALED.
- C. INTERIOR FRAMES - 16 GAGE COLD-ROLLED STEEL, MITERED AND WELDED.
- D. EXTERIOR DOORS - 18 GAGE COLD-ROLLED STEEL, LEVEL 2, 1-3/4" THICK, GALVANNEALED, INSULATED.
- E. INTERIOR HM FLUSH PANEL DOORS - 18 GAGE COLD-ROLLED STEEL, LEVEL 2, 1-3/4" THICK, INSULATED.
- F. INTERIOR HM RECESSED PANEL DOORS - 18 GAGE EMBOSSED STEEL, LEVEL 2, 1-3/4" THICK, INSULATED.
- G. FACTORY PREPARE DOORS AND FRAMES TO RECEIVE HARDWARE PER SDI A250.6 AND PER HARDWARE REQUIREMENTS.
- H. INSTALL FRAMES TO COMPLY WITH SDI A250.11.
- I. IMMEDIATELY AFTER ERECTION, REPAIR DAMAGE TO PRIME COAT OF PAINT.

FOLDING WALL ASSEMBLY

- A. NANAWALL, MD66, TOP SUPPORTED WITH FLUSH FLOOR GUIDE TRACK.
- B. 5 PANEL WITH CENTER DOOR PROVIDING 34" MIN CLEAR WIDTH. CENTER DOOR SHALL HAVE A KEY LOCK THAT MEETS BUILDING CODE EXITING REQUIREMENTS.
- C. SUB-DIVIDED 1/4" LAMINATED SAFETY GLASS ABOVE MULLION AND WOOD PANEL INSERT BELOW.
- D. 10" MIN BOTTOM RAIL TO MEET ADA REQUIREMENTS.
- E. STAINLESS STEEL HARDWARE WITH DARK BRONZE OR BLACK FINISH.

HARDWARE

- A. HINGES: FULL MORTISE, 4 1/2" x 4 1/2", 3 PER LEAF, 4 PER LEAF FOR DOORS OVER 7'-0" HIGH, BHMA A156.1 HINGE TYPE A811 FOR INTERIOR DOORS, A511 FOR EXTERIOR DOORS UNLESS OTHERWISE NOTED, 5 KNUCKLE CONCEALED ANTI-FRICTION BEARINGS.
- A.1. FINISH: SATIN BRONZE
- A.2. WARRANTY: 10 YEARS
- A.3. APPROVED MANUFACTURERS: HAGER, STANLEY, MCKINNEY
- B. CYLINDRICAL LOCK SETS: CORBIN RUSSHIN CL3500 SERIES WITH AZD LEVER AND ROSE, CL33400 SERIES FOR ELECTRIFIED LOCKSETS WITH ELECTRIC LATCH RETRACTION.
- B.1. LEVERS SHALL BE FREE-WHEELING IN THE LOCKED POSITION.
- B.2. KEY CYLINDER: SMALL FORMAT INTERCHANGEABLE CORE, 6-PIN
- B.3. FINISH: SATIN BRONZE
- B.4. WARRANTY: 10 YEARS
- C. LOCK STRIKES: MINIMUM 16 GAUGE CURVED STAINLESS STEEL WITH 1" DEEP BOX CONSTRUCTION. FINISH TO MATCH LOCK SETS.
- D. EXIT DEVICES: CORBIN RUSSHIN ED4000 SERIES WITH LEVERS TO MATCH LOCK SETS. ELECTRIFIED EXIT DEVICES WITH ELECTRIC LATCH RETRACTION ARE FAIL SECURE UNLESS OTHERWISE NOTED.

- E. ACCESS CONTROL KEYPADS: CORBIN RUSSHIN ACCESS 700 PIP1, KEYPAD ACCESS CONTROL WITH ETHERNET INTEGRATION.
- F. CLOSERS: DORMA 8600 SERIES DOOR CLOSER, DARK BRONZE FINISH.
- F.1. WARRANTY: 10 YEARS
- G. DOOR OPERATORS: DORMA ED900 LOW ENERGY SWING DOOR OPERATOR, WITH WIRELESS WALL SWITCHES, DARK BRONZE FINISH.
- G.1. WARRANTY: 10 YEARS
- H. OVERHEAD DOOR HOLDER AND STOP: ROCKWOOD OH404H WITH HOLD OPEN, SATIN BRONZE FINISH.
- I. KICK PLATES: COMPLY WITH BHMA J102 WITH BEVELED EDGES, 8" x DOOR WIDTH LESS 2".
- I.1. FINISH: ANODIZED ALUMINUM
- I.2. APPROVED MANUFACTURERS: HAGER, ROCKWOOD
- J. SILENCERS: COMPLY WITH BHMA L03011. PROVIDE 3 PER SINGLE DOOR AND 2 PER PAIR OF DOORS.
- J.1. COLOR: BLACK OR GRAY
- J.2. APPROVED MANUFACTURERS: HAGER, ROCKWOOD

ROOM / SPACE		FLOOR	BASE	WALLS	CLG	CLG HT.	REMARKS
101A	HALLWAY	E VINYL TILE *	E WOOD *	E PLAS * / GB	E PLAS *	E	* PATCH TO MATCH EXISTING
104	MHI MEN'S RESTROOM	E	E	E	E	E	PAINT WINDOW INFILL
105	MHI WOMEN'S RESTROOM	E	E	E	E	E	PAINT WINDOW INFILL
107	MHI MAIN OFFICE	E VINYL TILE *	E WOOD *	E PLAS * / GB	E PLAS *	E	* PATCH TO MATCH EXISTING
110A	ASSEMBLY ROOM WEST	E VCT *	E WOOD *	E *	E	E	* PATCH TO MATCH EXISTING
120	FOYER	BLUE STONE	WOOD *	E / STONE, GB	GB	9'-0"	* WOOD BASE AT BRICK AND GB WALLS
121	HALLWAY	POLISHED CONG	WOOD	E BRICK / GB	GB	VARIES	
122	STORAGE	SEALED CONG	-	GB / CMU	EXP STRUCT	-	
132	CHI HALLWAY	VCT	WOOD	E PLAS * / GB	GB		* PATCH TO MATCH EXISTING
133	CHI RESTROOM	CT	CT	E PLAS * / GB	GB		SEE NOTE 10, * PATCH TO MATCH EXISTING
134	CHI KITCHENETTE	VCT	WOOD	E PLAS * / GB	GB		SEE NOTE 11, * PATCH TO MATCH EXISTING
136	CHI FRONT OFFICE	E WOOD *	E WOOD *	E PLAS *	E	E	* PATCH TO MATCH EXISTING
138	CHI CONFERENCE	E WOOD *	E WOOD *	E PLAS * / GB	E PLAS *	E	* PATCH TO MATCH EXISTING
139	CHI CLOSET	SEALED CONG	-	E PLAS * / GB	E PLAS *	E	* PATCH TO MATCH EXISTING
166	QHI STORAGE	E	E WOOD	E PLAS *	E	E	* PATCH TO MATCH EXISTING
169	QHI OPEN OFFICE	E VCT *	E WOOD *	E PLAS *	E	E	* PATCH TO MATCH EXISTING
174	QHI RESTROOM	E	E	E PLAS *	E	E	* PATCH TO MATCH EXISTING
201A	HALLWAY	E WOOD *	E WOOD *	E PLAS * / GB	E PLAS *	E	* PATCH TO MATCH EXISTING
203	PARLOR	E WOOD *	E WOOD *	E PLAS * / GB	E PLAS *	E	* PATCH TO MATCH EXISTING
220	FOYER	WOOD (MAPLE)	WOOD *	E / STONE, GB	GB	9'-0"	* SEE NOTE 12
221	HALLWAY	WOOD (MAPLE)	WOOD *	E BRICK / GB	GB	VARIES	* WOOD BASE AND SHOE
231	GH2 CORRIDOR	E WOOD *	E WOOD *	E PLAS *	E	E	* PATCH TO MATCH EXISTING
237	GH2 THIRD OFFICE	E	E WOOD *	E PLAS * / GB	E PLAS *	E	* PATCH TO MATCH EXISTING
238	QH-CH TERRACE	WOOD (MAPLE)	WOOD *	E BRICK / GB	GB	SLOPED	* WOOD BASE AND SHOE
268	GH2 HALLWAY	E WOOD *	E WOOD *	E PLAS *	E	E	* PATCH TO MATCH EXISTING

FINISH SCHEDULE NOTES

1. PROTECT EXISTING ADJACENT FINISHES. ANY EXISTING FINISH THAT IS TO REMAIN AND IS DAMAGED DURING THE EXECUTION OF THIS WORK SHALL BE RESTORED TO ITS ORIGINAL CONDITION AND SHALL MATCH ADJOINING SURFACES.
2. ANY SURFACE FINISH NOT CLEARLY DEFINED IN THE FINISH SCHEDULE SHALL BE FINISHED IN THE SAME MATERIALS AS SURFACES OF SIMILAR USE.
3. IN AREAS OF WORK, PAINTING, FLOORING, AND OTHER FINISHES SHALL EXTEND COMPLETELY OVER, UNDER AND BEHIND ANY ITEMS OF EQUIPMENT OR FURNITURE.
4. IN AREAS OF WORK, FINISH PAINT ALL EXPOSED NEW WORK NOT OTHERWISE CONCEALED BY OTHER FINISHES UNLESS OTHERWISE INDICATED. DO NOT PAINT PRE-FINISHED ITEMS.
5. IN EXISTING AREAS AFFECTED BY THE WORK, PROVIDE MATERIALS AND FINISHES TO MATCH EXISTING. FIELD VERIFY AND MATCH EXISTING TRIM PROFILES. PAINT SURFACES FROM CORNER TO CORNER AND/OR BLEND INTO EXISTING.
6. IN AREAS OF WORK, PAINT EXPOSED STRUCTURE AND DECKING IN SPACES NOT SCHEDULED TO RECEIVE A CEILING.
7. PROVIDE NEW UNIT MASONRY WORK AND UNIT MASONRY INFILL TO MATCH EXISTING UNIT MASONRY IN SIZE, COLOR, TEXTURE, DETAIL, COURSING, ETC., UNLESS OTHERWISE NOTED. TOOTH INFILL WORK INTO EXISTING.
8. CLEAN EXISTING BRICK AND STONE WALLS THAT WILL BE EXPOSED ON THE INTERIOR. REPOINT MORTAR JOINTS, MATCH COLOR OF EXISTING MORTAR.
9. FLOOR TILE SHALL HAVE A SLIP RESISTANCE RATING OF ≥ 0.60 PER ASTM C-1028.
10. CHI RESTROOM 133, FLOOR - LARGE SCALE RUNNING BOND PATTERN W/ DARK GROUT. WALL - 6YP BD AND PLASTER WITH CT MAINSCOT TO 48" AFF (FULL HEIGHT ON WET WALL).
11. CHI KITCHENETTE 134, WALL - CT BACKSPASH FROM TOP OF COUNTER BACKSPASH TO UNDERSIDE OF WALL CABINETS.
12. FOYER 220, BASE - WOOD BASE AND SHOE AT 6YP BD AND BRICK WALLS, WOOD SHOE AT STONE WALLS.

GLAZING NOTES

1. ALL DOORS AND WINDOWS ARE TO BE LABELED AS COMPLYING WITH ASHRE 5.4.3.2.
2. ALL GLAZING TO BE 1" INSULATED LOW E, U 0.40, SHGC 0.40.
3. ALL FENESTRATION PRODUCTS SHALL HAVE A NAMEPLATE LISTING U FACTOR, AIR LEAKAGE RATE, SHGC AND VISIBLE TRANSMISSION. OR A SIGNED AND DATED CERTIFICATE FOR THE INSTALLED FENESTRATION LISTING THE ABOVE.
4. WINDOWS AND EXTERIOR DOOR BASIS OF DESIGN: WEATHERSHIELD SUPREME SERIES, 1" INSULATED GLASS, LOW E, WITH ARGON AND KRYPTON GAS, WITH ANODIZED ALUMINUM CLAD EXTERIOR FINISH WITH INTEGRATED MULLION COVERS TO MATCH, AND CLEAR MAPLE INTERIOR.
5. SKYLIGHTS TO BE VELLUX MODEL FS M06, U=0.40 BTU/HR/SF, SHGC 0.4, TESTED AND CERTIFIED IN ACCORDANCE WITH NFRC 100 AND 200 PROCEDURES.

ABBREVIATIONS

- CONG CONCRETE
- CPT CARPET
- CT CERAMIC TILE
- E EXISTING
- EXP EXPOSED
- GB GYPSUM BOARD
- PLAS PLASTER
- STRUCT STRUCTURE
- VCT VINYL COMPOSITION TILE

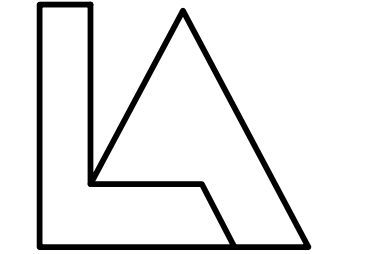
ADDITIONAL FINISH SELECTIONS

- CAST STONE - CHARCOAL GREY
- VENEER PANEL - STONWOOD ARCHITECTURAL PANELS, 3/8" THICK, SLATE GREY
- EXPOSED WOOD BEAM AND RAFTERS (FRONT ENTRANCE) - DOUGLAS FIR WITH WHITE WIPE STAIN AND CLEAR COAT FINISH
- WOOD SIDING (FRONT ENTRANCE) - PAINTED
- EXPOSED WOOD FRAME (EXTERIOR DOORS AND WINDOWS) - DOUGLAS FIR WITH WHITE WIPE STAIN AND CLEAR COAT FINISH
- V-GROOVE T&G WOOD SOFFIT - WHITE WIPE STAIN AND CLEAR COAT FINISH
- ALUMINUM CLAD WOOD WINDOWS - ANODIZED ALUMINUM ON EXTERIOR, MAPLE WITH CLEAR COAT FINISH ON INTERIOR
- WOOD TRIM AT EXTERIOR DOORS AND WINDOWS - MAPLE WITH CLEAR COAT FINISH TO MATCH WINDOW FRAME FINISH
- OAK THRESHOLDS - QUARTER SAWN WHITE OAK WITH CLEAR COAT FINISH
- T&G WOOD PLANK FLOORING - MAPLE WITH CLEAR COAT FINISH
- TREADS AND RISERS (INTERIOR STAIRS) - MAPLE WITH CLEAR COAT FINISH
- GUARDRAIL & HANDRAIL (INTERIOR STAIRS) - MAPLE WITH CLEAR COAT FINISH
- POSTS & PICKETS (INTERIOR STAIRS) - PAINTED STEEL
- WOOD SHOE MOLD - MAPLE WITH CLEAR COAT FINISH
- WOOD BASE - PAINTED
- INTERIOR WOOD DOORS AND FRAMES - PAINTED
- INTERIOR HOLLOW METAL DOORS AND FRAMES - PAINTED



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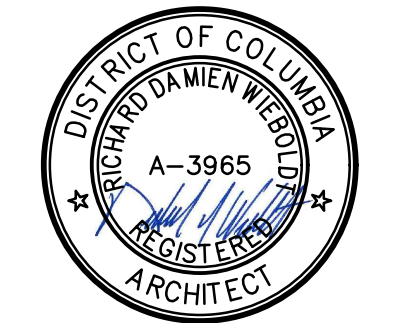
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5-4-2018		CONSTRUCTION SET

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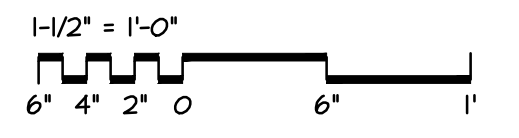
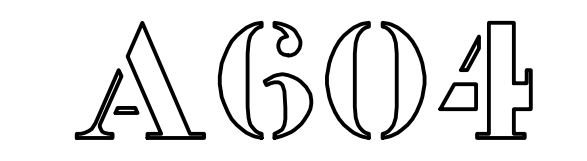
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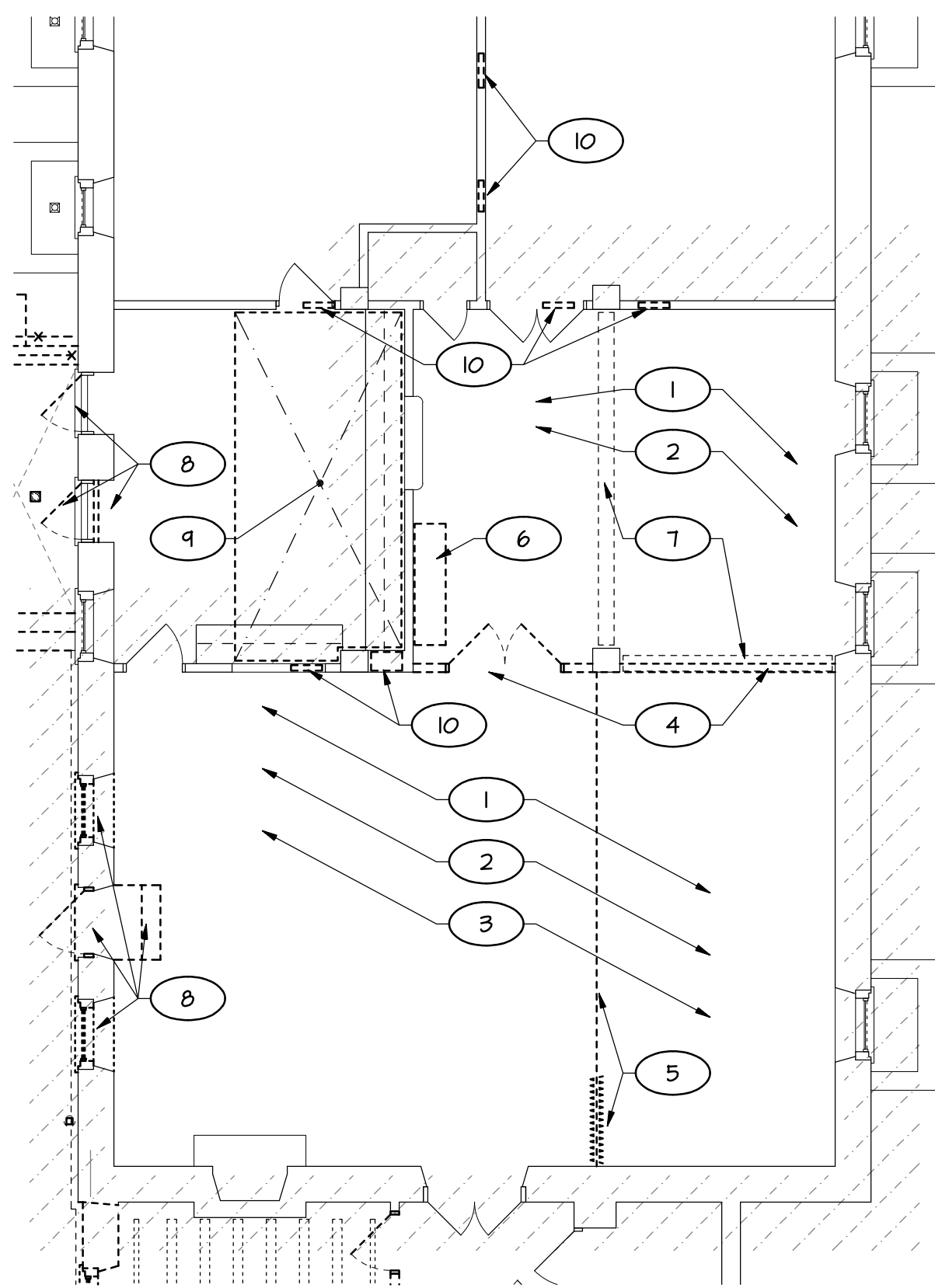
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ARCHITECTURAL
FINISH SCHEDULE
AND DETAILS

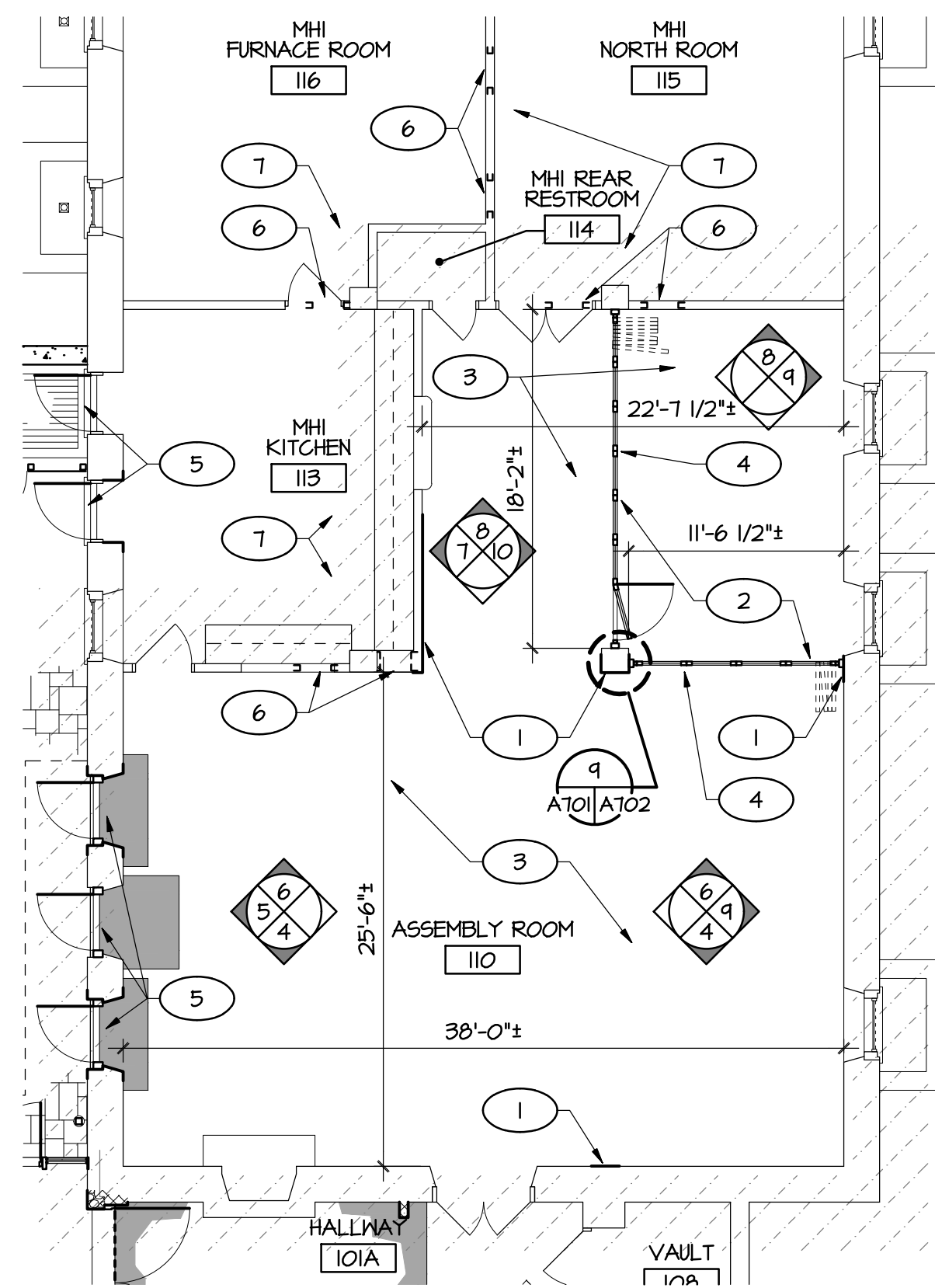
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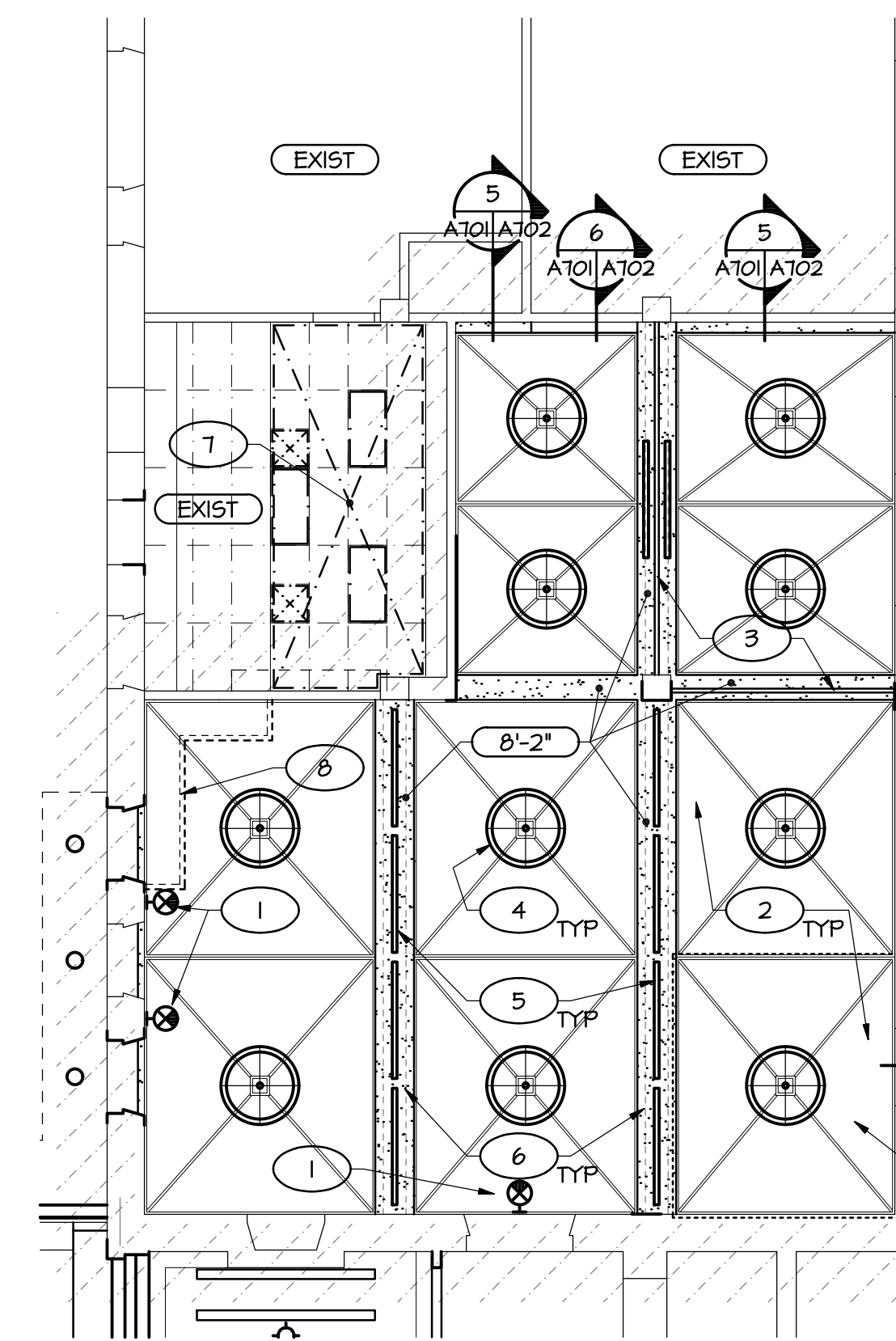
DEMOLITION KEY NOTES

- 1 REMOVE FLOOR FINISH AND ALL ADHESIVES, PREPARE CONG SLAB TO RECEIVE NEW FLOOR FINISH. EXISTING FLOOR TILE CONTAINS ASBESTOS.
- 2 ALL WALL AND BASEBOARD TRIM IS TO REMAIN, REMOVE SHOE MOLD AS REQUIRED.
- 3 REMOVE CEILING AND ALL ASSOCIATED ITEMS UP TO CONG STRUCTURE.
- 4 REMOVE PARTITION, DOOR AND FRAME.
- 5 REMOVE FOLDING PARTITION AND ALL ASSOCIATED ITEMS.
- 6 REMOVE STORAGE CABINET AND ALL ASSOCIATED ITEMS.
- 7 SAW CUT AND REMOVE PORTION OF CONG SLAB FOR FOLDING WALL TRACK INSTALLATION.
- 8 DOOR AND WINDOW WORK PART OF BASE BID.
- 9 REMOVE PORTION OF EXISTING CEILING TO ACCOMMODATE MECH WORK, SAVE FOR REINSTALLATION.
- 10 REMOVE PORTION OF EXISTING WALL ABOVE TO ACCOMMODATE MECH WORK.



FLOOR PLAN KEY NOTES

- 1 PATCH EXISTING WALLS TO MATCH EXISTING FINISHES, PROVIDE SMOOTH TRANSITIONS. PROVIDE MISC WOOD TRIM TO MATCH EXISTING, COORDINATE AND MATCH EXISTING PROFILES.
- 2 PATCH CONG SLAB AT TRACK, PROVIDE SMOOTH TRANSITIONS.
- 3 PREP EXISTING CONG SLAB FOR NEW FLOOR FINISH - REMOVE ALL ADHESIVES FROM CONG SURFACE AND PATCH. SKIM COAT WITH HARDSETTING UNDERLAYMENT COMPOUND WITH MIN COMPRESSIVE STRENGTH OF 3000 PSI, ARDEX BRAND OR EQUAL.
- 4 FOLDING WALL, INSTALL PER MFR'S RECOMMENDATIONS. NANAWALL WD66, FLOOR SUPPORTED WITH FLUSH SILL.
- 5 DOOR AND WINDOW WORK PART OF BASE BID.
- 6 PATCH WALLS AROUND DUCT PENETRATIONS TO MATCH EXISTING, FIT TIGHT TO DUCTWORK AND SEAL.
- 7 RESTORE ALL DISTURBED FINISHES TO MATCH EXISTING.



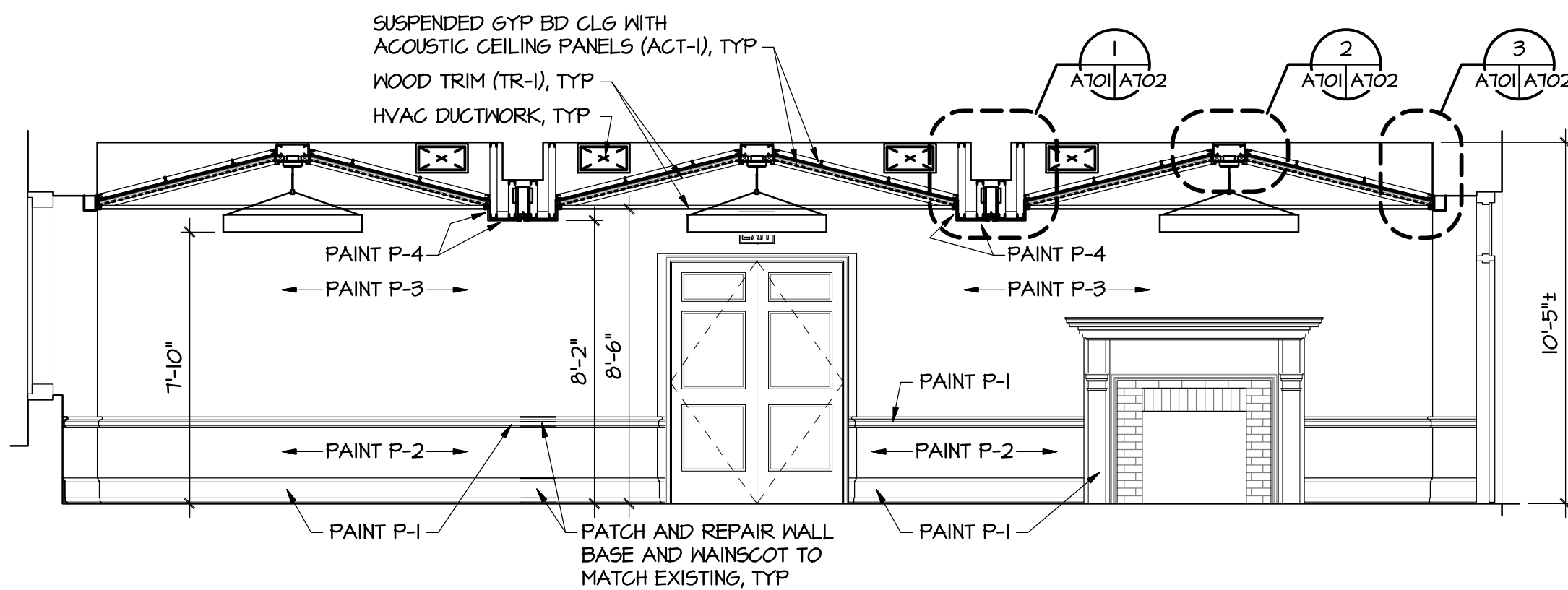
CEILING PLAN KEY NOTES

- 1 PROVIDE WALL MOUNTED EXIT LIGHTS.
- 2 ACOUSTIC CEILING.
- 3 FOLDING WALL TRACK.
- 4 PENDENT LIGHT FIXTURES.
- 5 LINEAR DIFFUSERS.
- 6 GYP BD SOFFIT.
- 7 REINSTALL EXISTING CEILING AND ALL ASSOCIATED ITEMS.
- 8 PROVIDE GYP BD AND MTL STUD ENCLOSURE TO CREATE A RETURN AIR PLENUM ABOVE SUSPENDED CEILING SYSTEM, FIELD VERIFY EXTENT NEEDED.

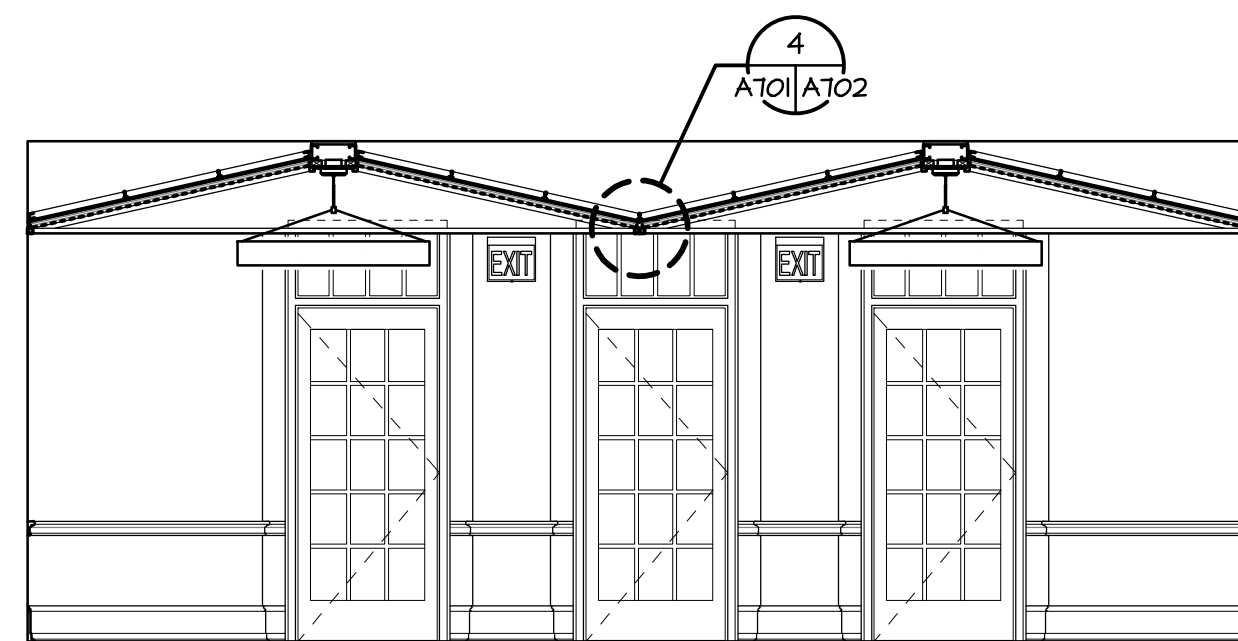
1 ASSEMBLY ROOM
DEMOLITION PLAN
A101|A701 1/8" = 1'-0"

2 ASSEMBLY ROOM
FLOOR PLAN
FIELD VERIFY ALL DIMENSIONS,
DO NOT SCALE DRAWINGS
A102|A701 1/8" = 1'-0"

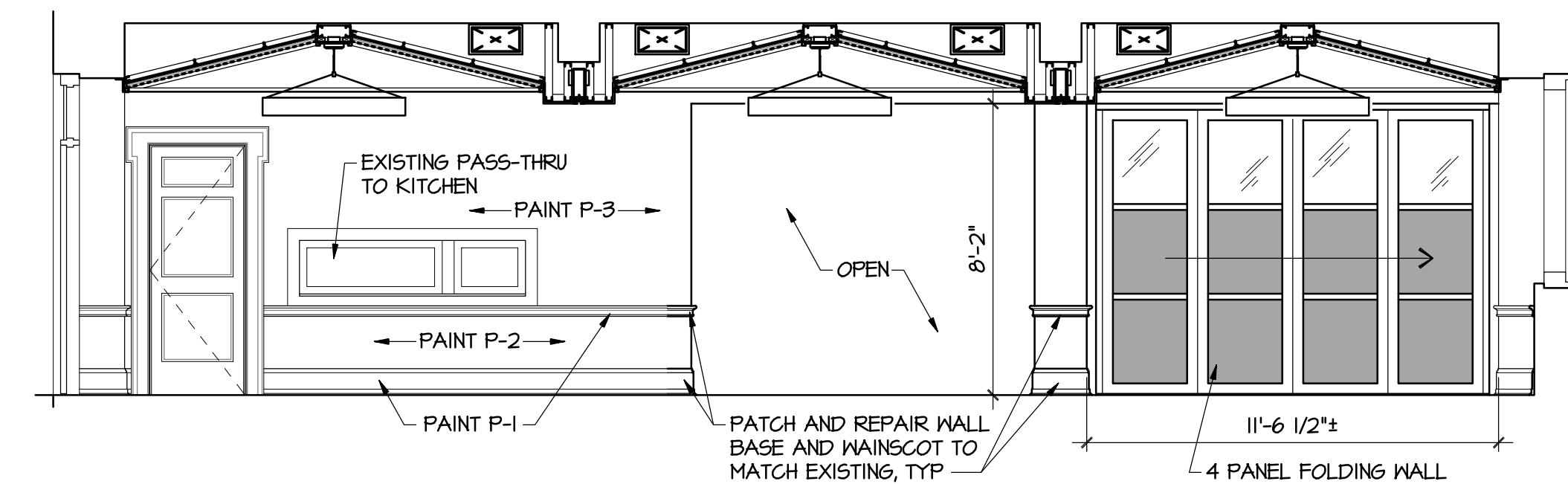
3 ASSEMBLY ROOM
REFLECTED CEILING PLAN
A103|A701 1/8" = 1'-0"



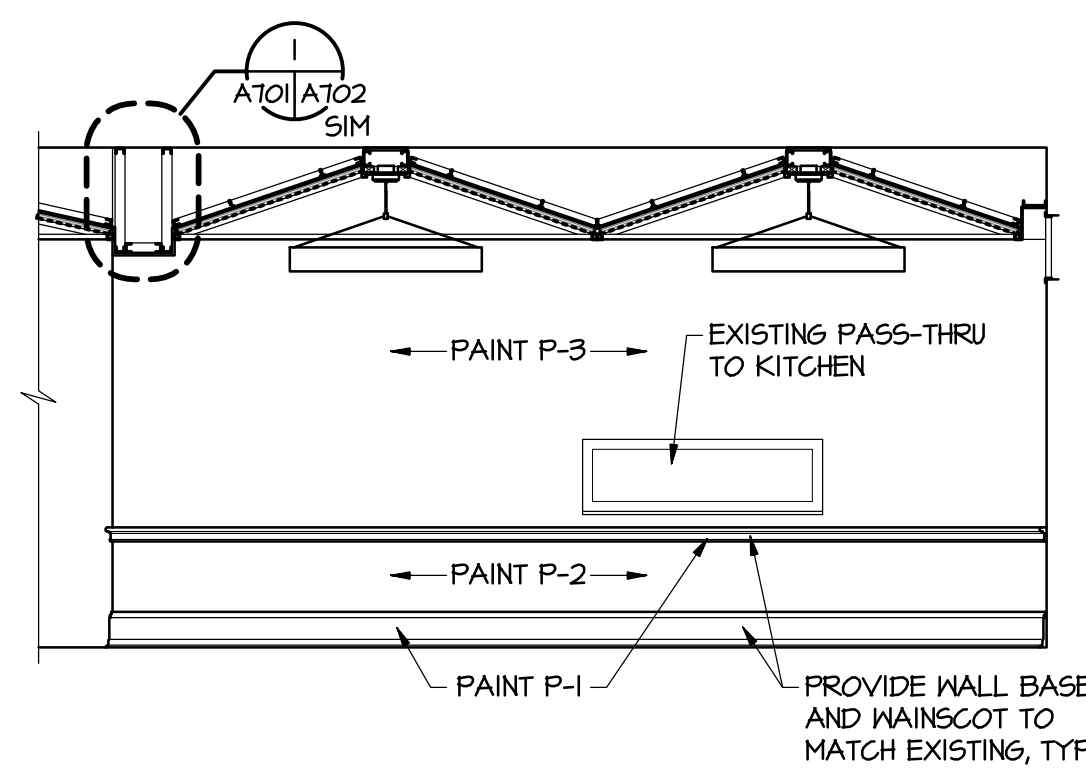
4 INTERIOR ELEVATION
A701|A701 1/4" = 1'-0"



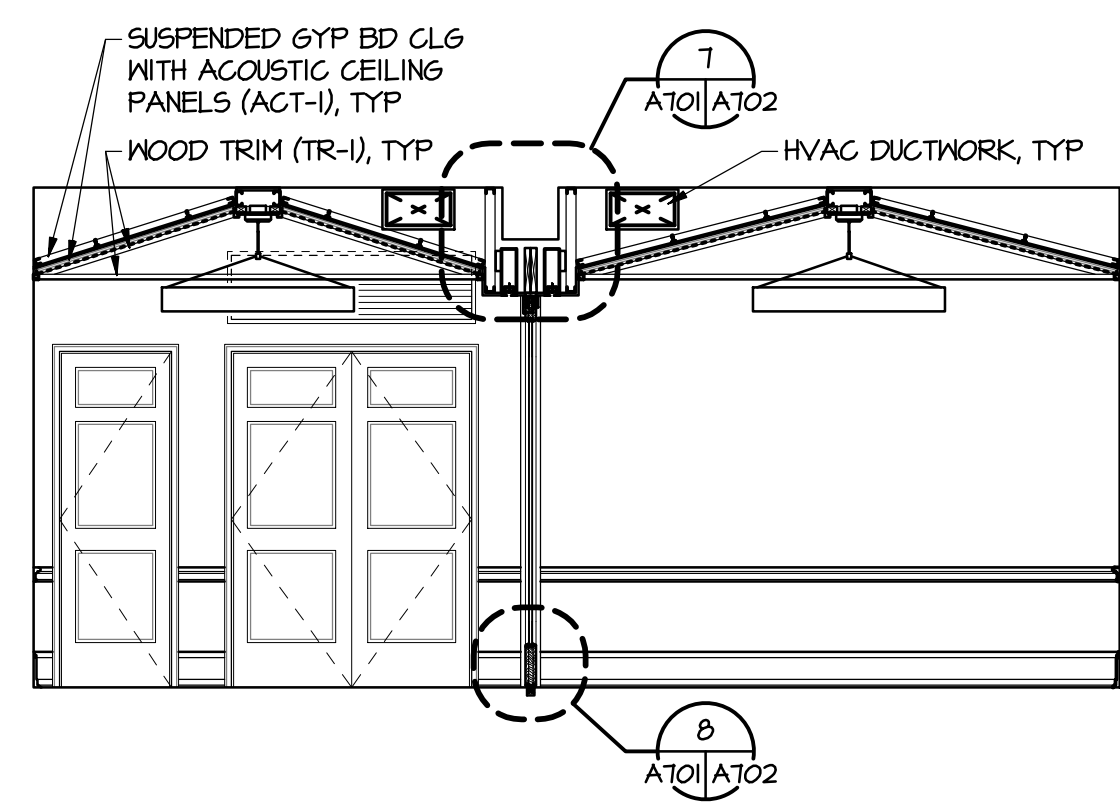
5 INTERIOR ELEVATION
A701|A701 1/4" = 1'-0"



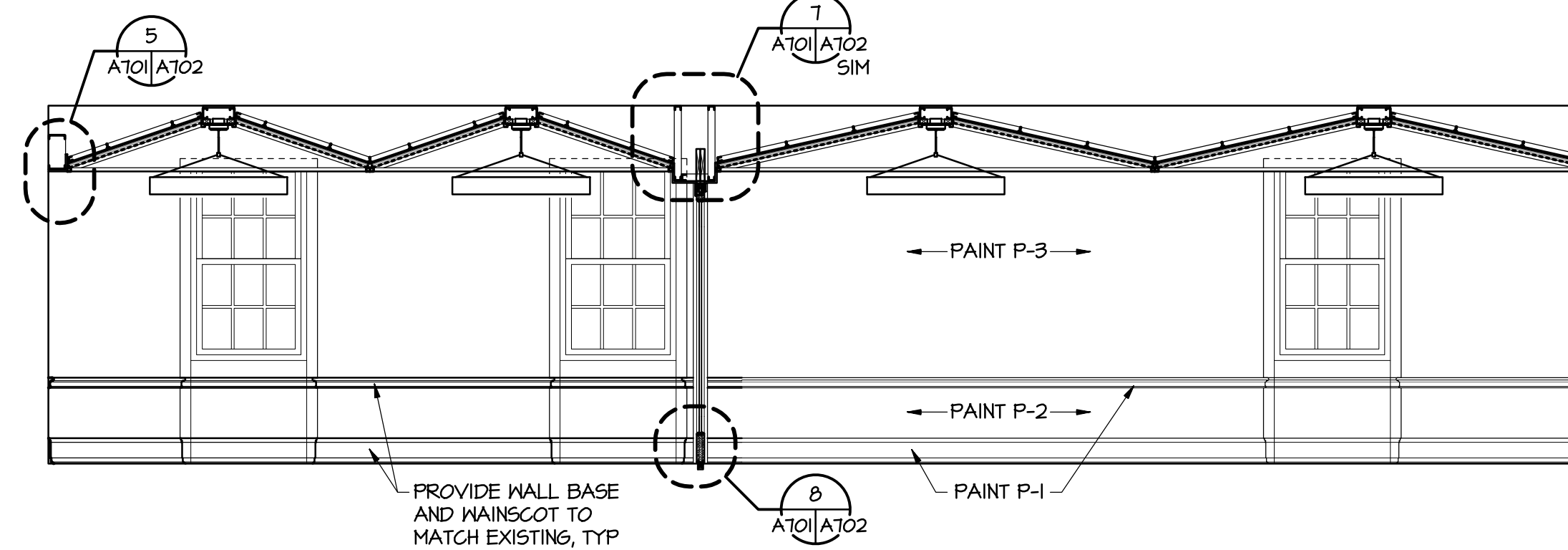
6 INTERIOR ELEVATION
A701|A701 1/4" = 1'-0"



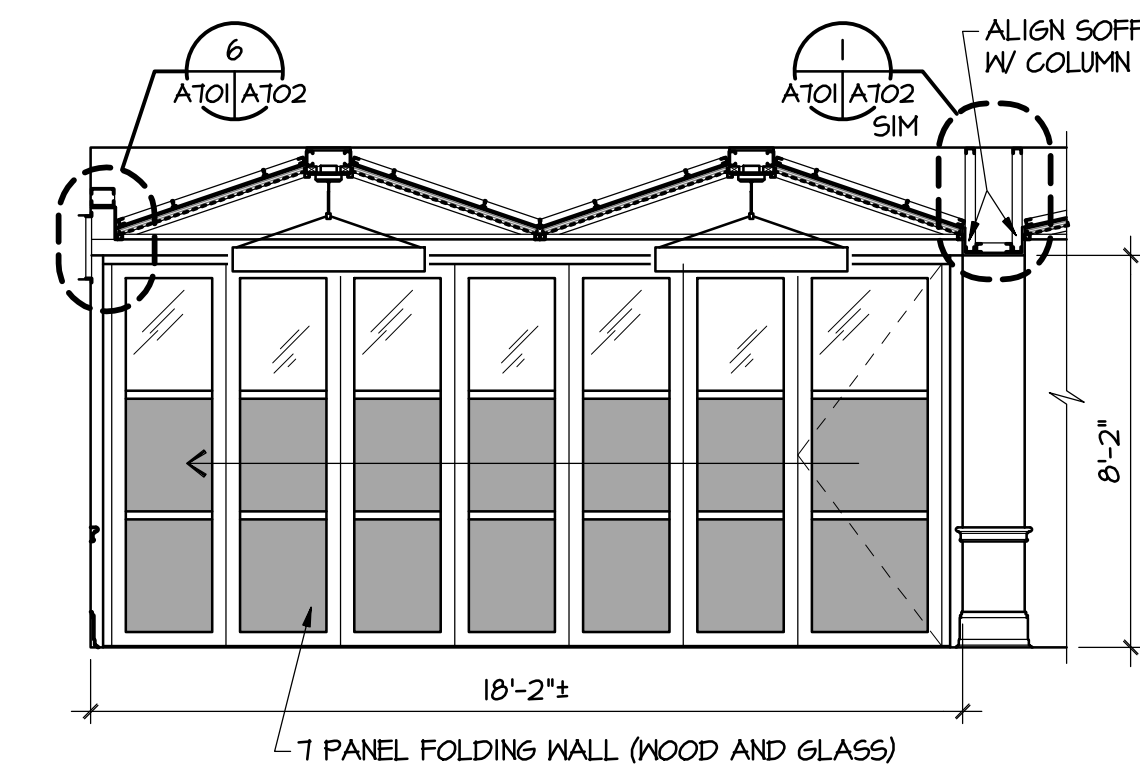
7 INTERIOR ELEVATION
A701|A701 1/4" = 1'-0"



8 INTERIOR ELEVATION
A701|A701 1/4" = 1'-0"



9 INTERIOR ELEVATION
A701|A701 1/4" = 1'-0"

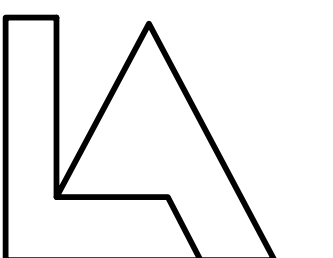


10 INTERIOR ELEVATION
A701|A701 1/4" = 1'-0"



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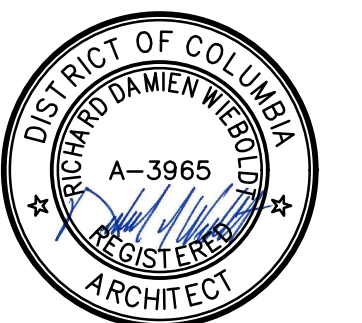
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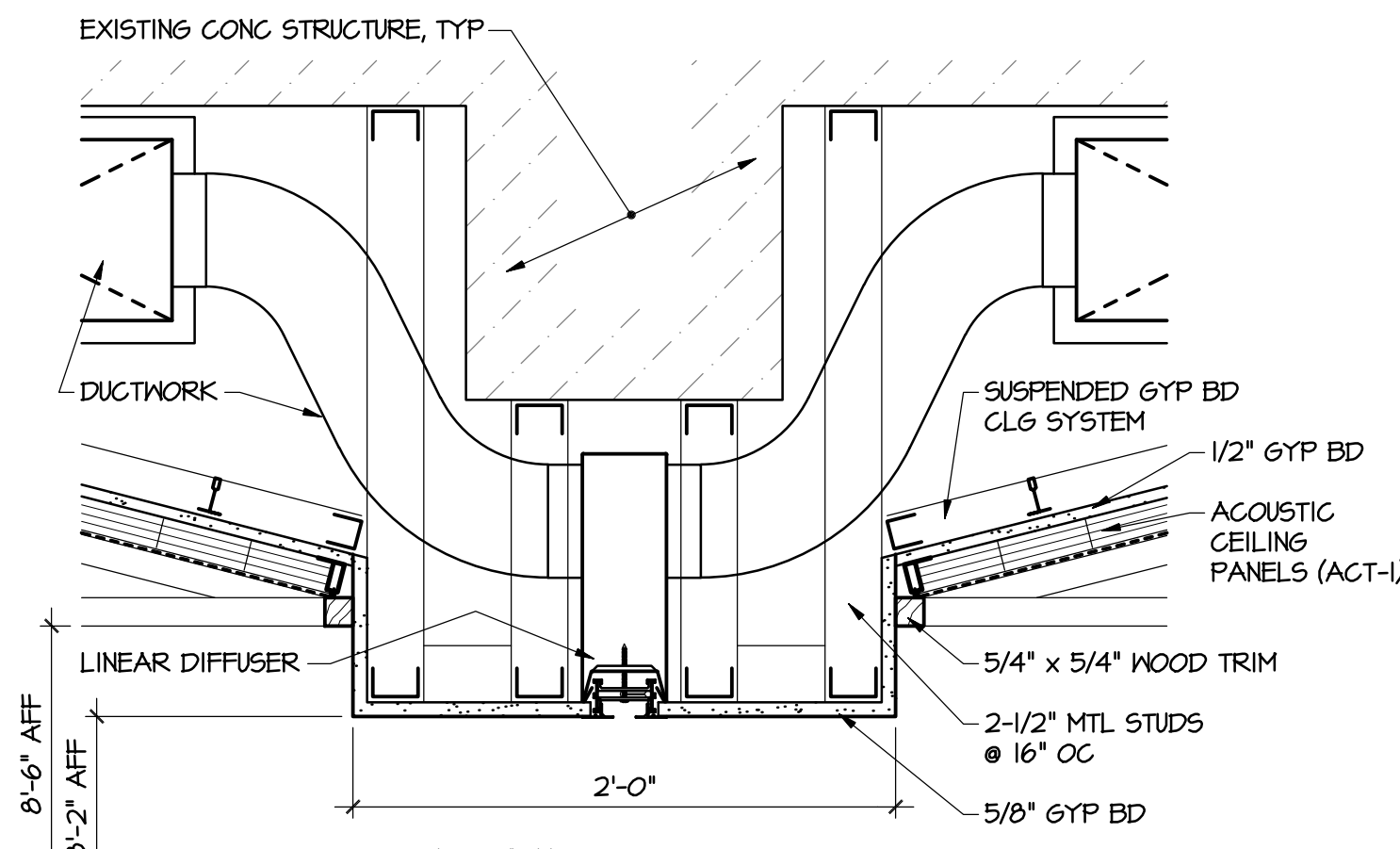
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DATE 12-1-2017 BID SET

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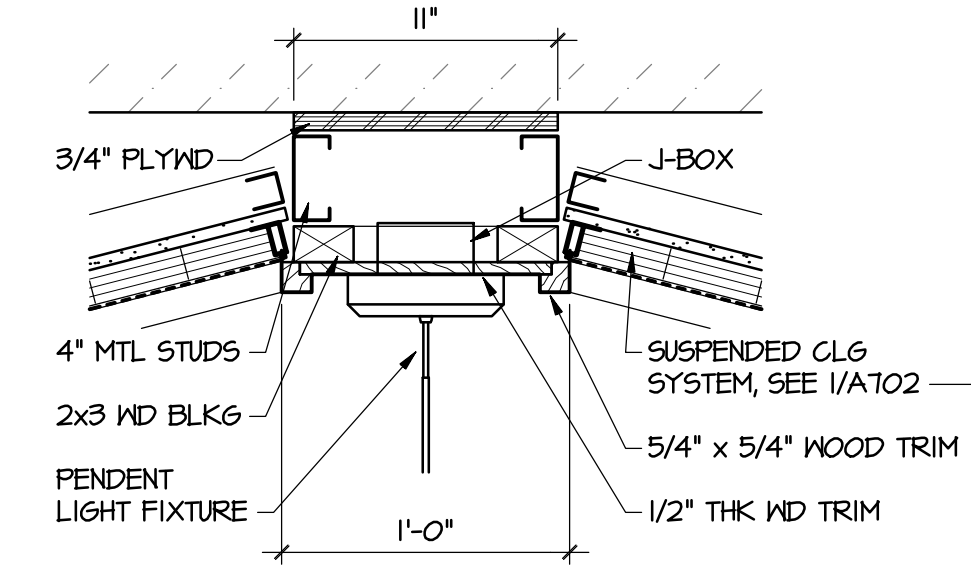
ARCHITECTURAL
ADD ALT #1 - ASSEMBLY
RM PLANS & ELEVATIONS

DRAWING NUMBER

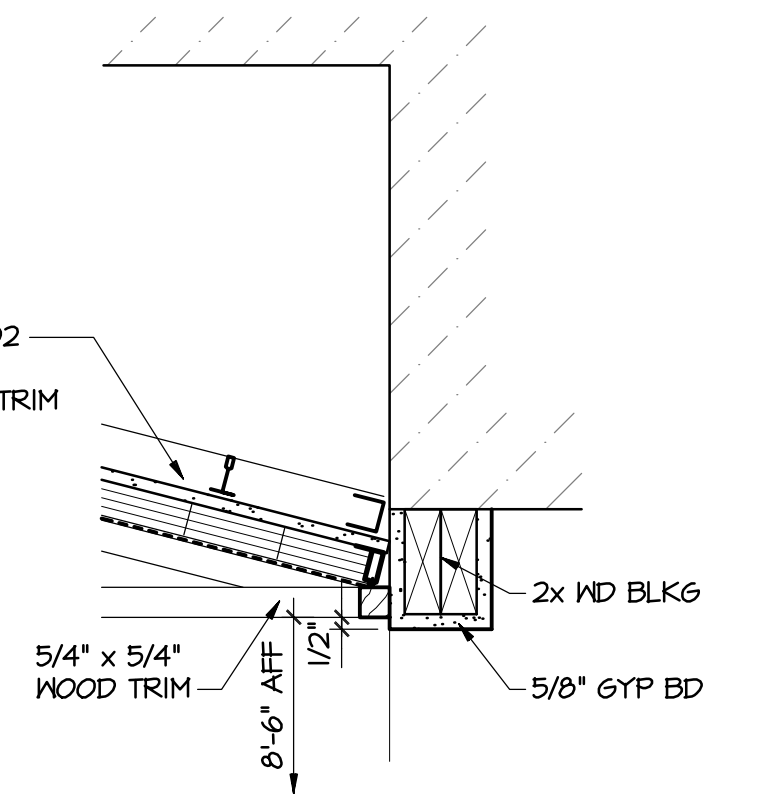
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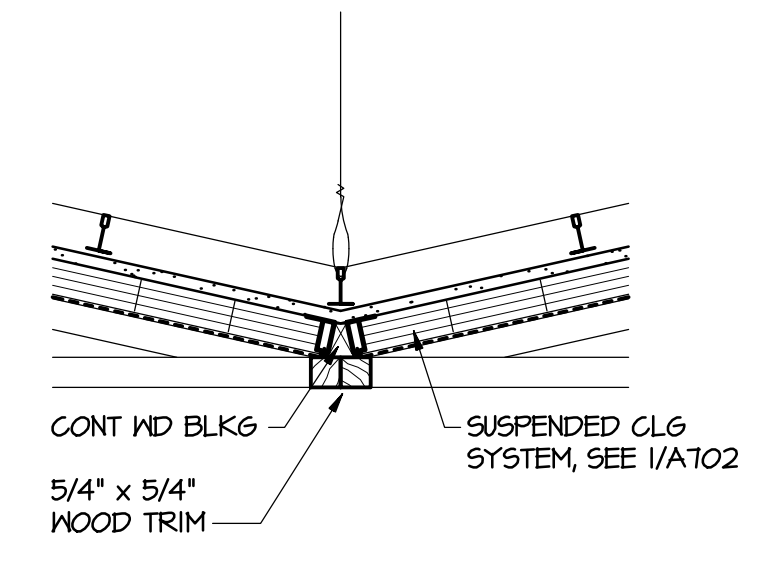
1 DETAIL
A701/A702 1-1/2" = 1'-0"



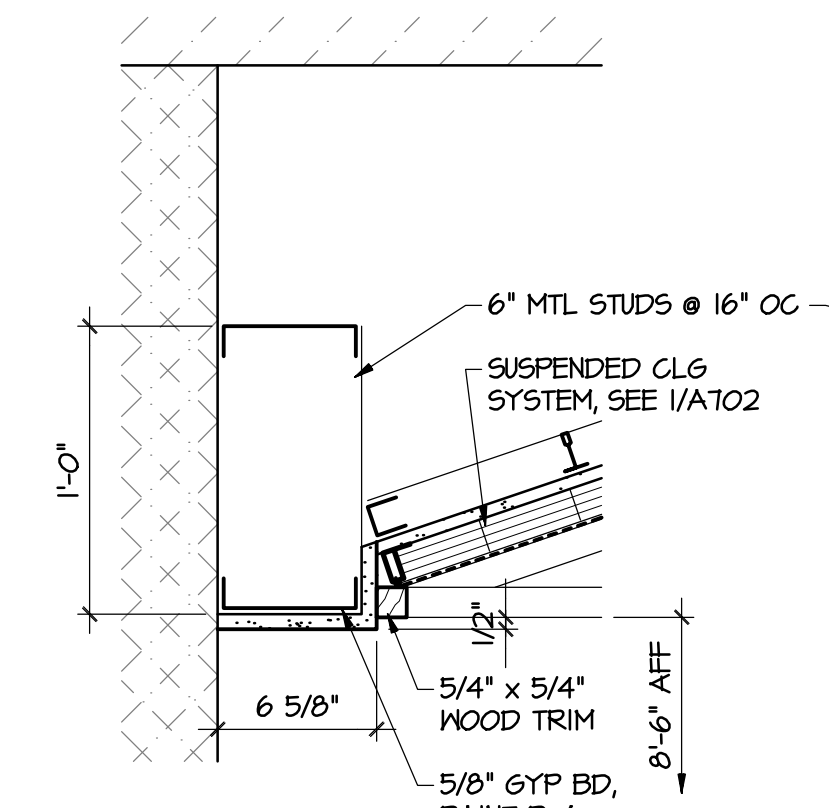
2 DETAIL
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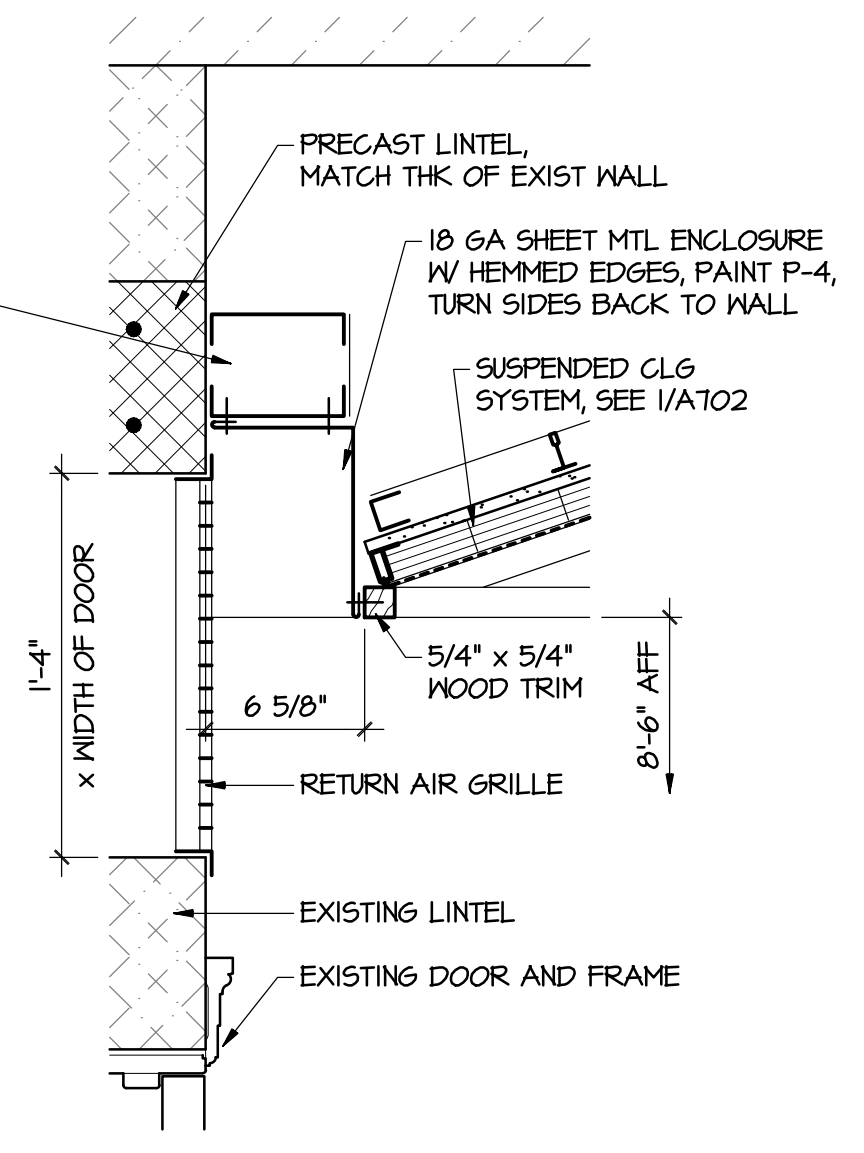
3 DETAIL
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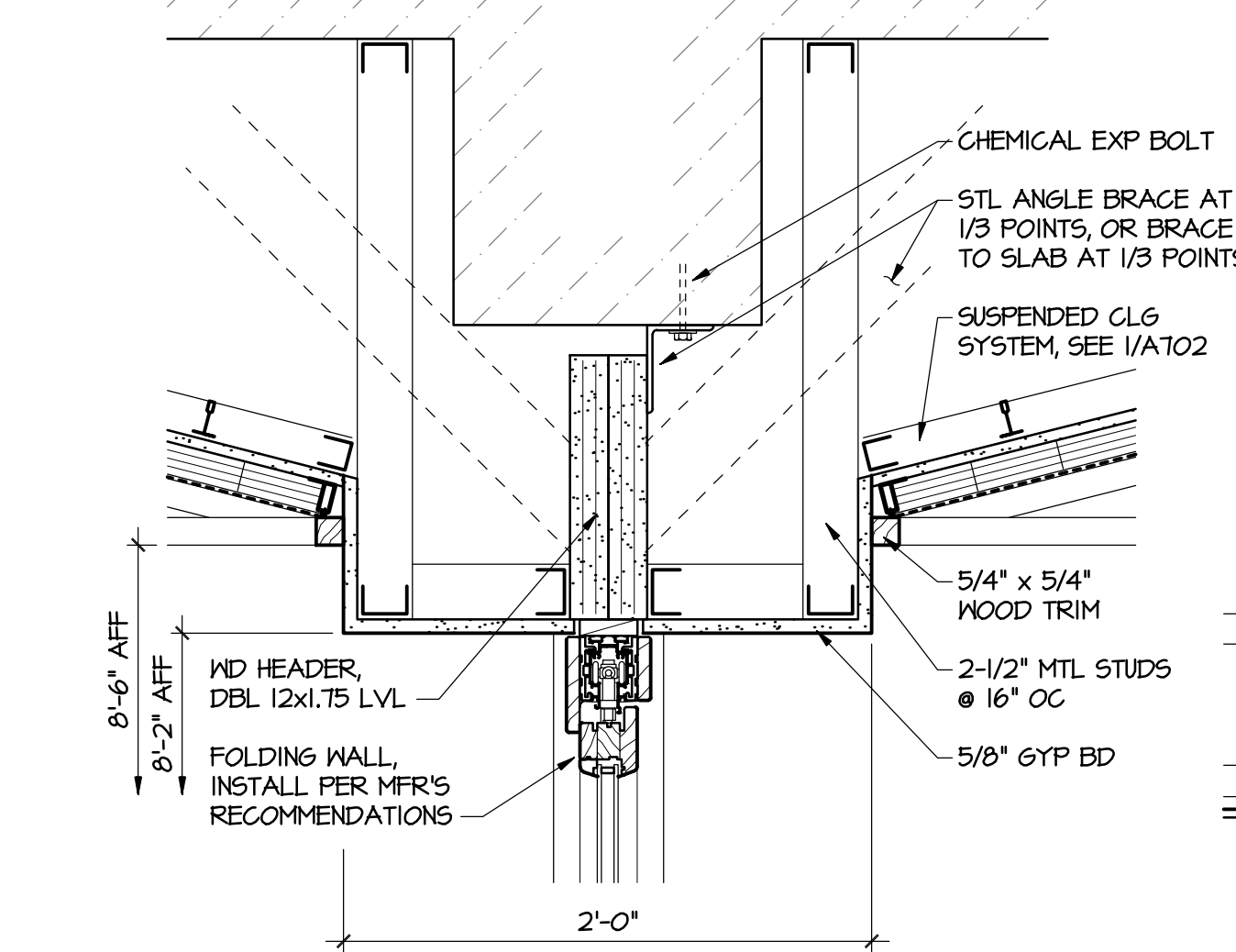
4 DETAIL
A701/A702 1-1/2" = 1'-0"



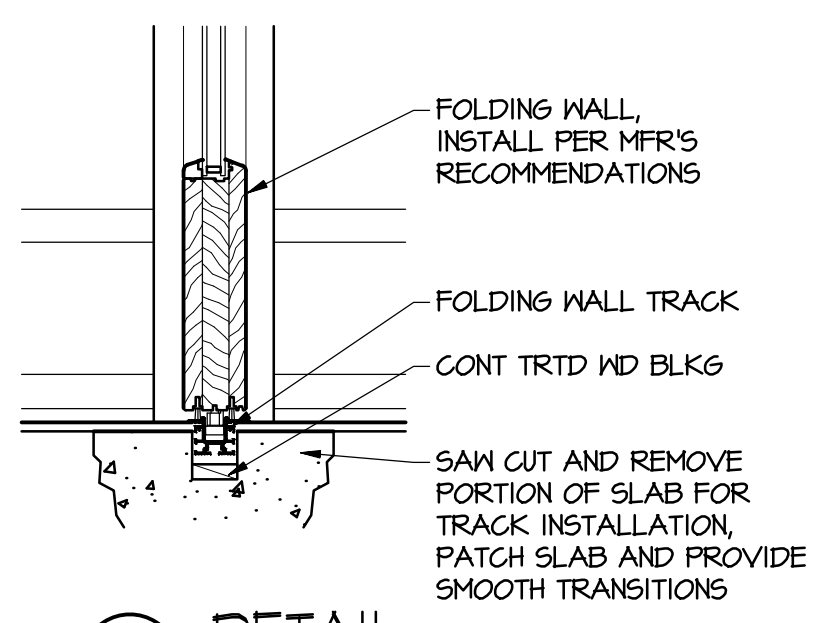
5 DETAIL
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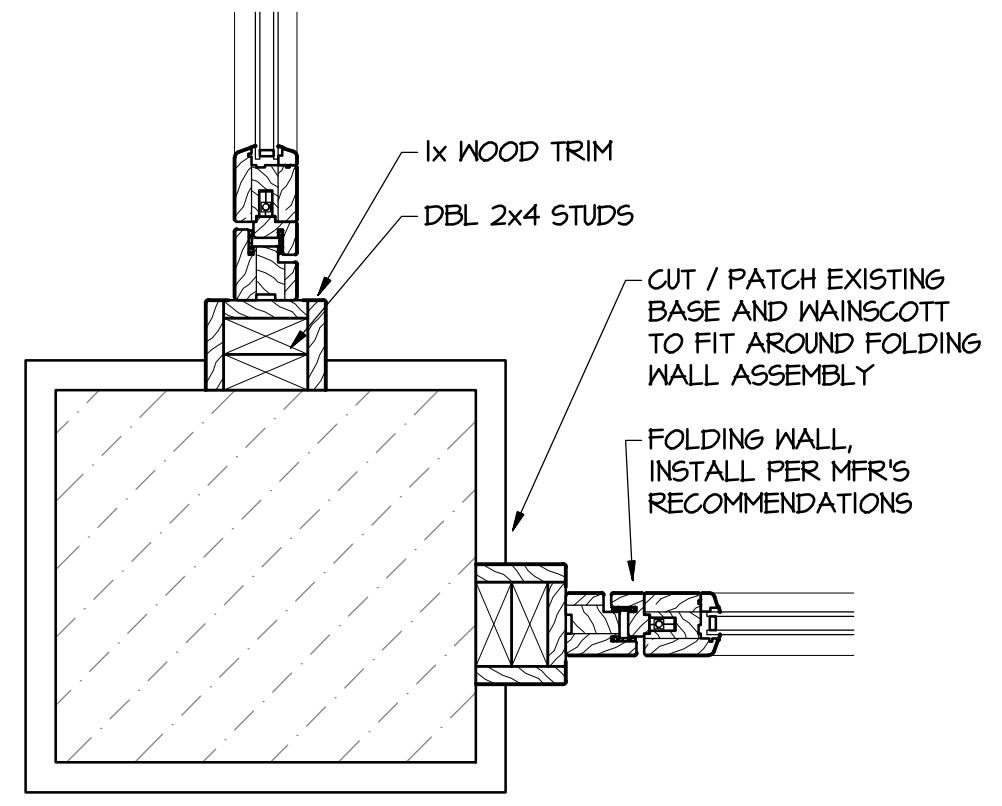
6 DETAIL
A701/A702 1-1/2" = 1'-0"



7 DETAIL
A701/A702 1-1/2" = 1'-0"



8 DETAIL
A701/A702 1-1/2" = 1'-0"



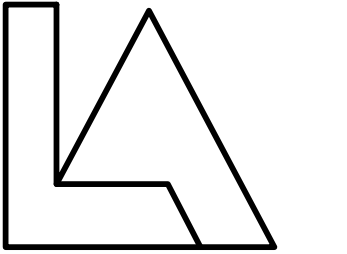
9 DETAIL
A701/A702 1-1/2" = 1'-0"

ASSEMBLY ROOM COLOR & MATERIAL SCHEDULE	
FLOORING	
FL-1	SOLID CORK FLOORING, ZANDUR - PRAXIS, 6"x36"x1/2" THK PLANK, COLOR - CT1020 WITH 7 COATS COMMERCIAL GRADE WATER BASED MATTE POLYURETHANE
PAINTS	
PT-1	BENJAMIN MOORE, COLOR TED, SEMI-GLOSS FOR BASEBOARD, WAINSCOTT AND TRIM
PT-2	BENJAMIN MOORE, COLOR TED, EGGSHELL FOR LOWER WALL
PT-3	BENJAMIN MOORE, COLOR TED, EGGSHELL FOR UPPER WALL
PT-4	BENJAMIN MOORE, COLOR TED, FLAT FOR CEILING
STAINS	
PT-5	RUBIO MONOCOAT, RMC OIL PLUS 2C, SAVANNAH WITH CLEAR COAT, FOR CEILING TRIM - SUBMIT SAMPLES FOR APPROVAL
ACOUSTICAL CEILING	
ACT-1	ZBEST WHISPERMALLS, WHISPERSPAN ACOUSTIC CEILING, EUROSPAN EOS TR3, FIELD FIT TO SIZE - THERE SHOULD BE NO VISIBLE SEAMS
WOOD CEILING TRIM	
TR-1	STAIN GRADE WOOD, PT-5 FINISH, SEE DETAILS FOR SIZE



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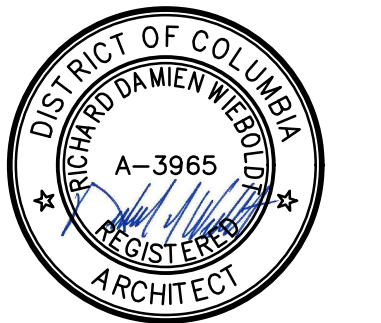
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DRAWING TITLE
ARCHITECTURAL
ADD ALT #1 - ASSEMBLY
RM DETAILS

DRAWING NUMBER

A702

GA FILE: 680-A702
 DATE: 05/01/18
 TIME: 10:04:44
 SCALE: 1/2" = 1'-0"

UNDERPINNING NOTES:

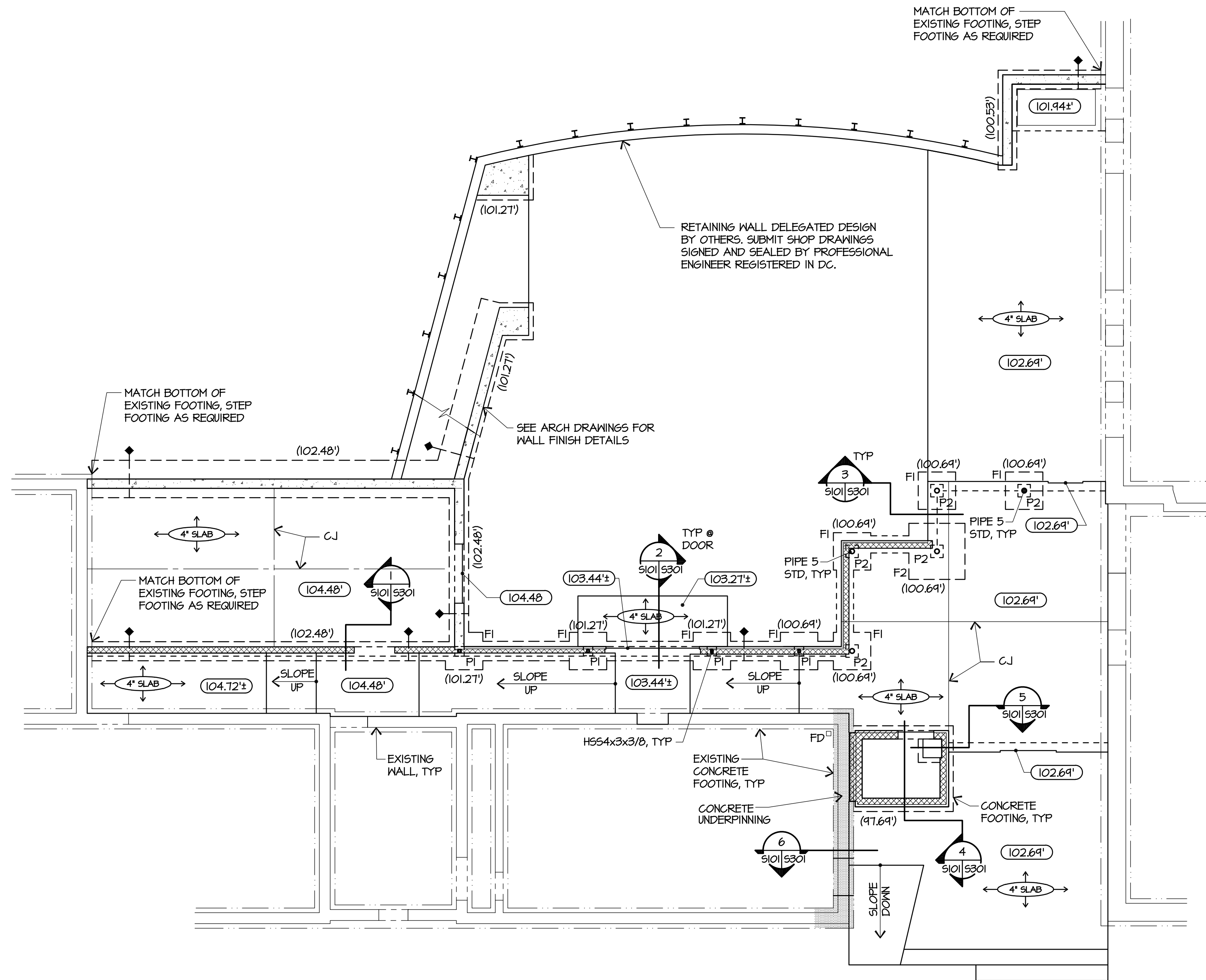
UNDERPINNING SHALL BE DESIGNED BY A SPECIALTY ENGINEER REGISTERED IN WASHINGTON, DC. THE DESIGN SHALL BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER OF RECORD AND KEPT AT THE SITE FOR THE INSPECTOR TO REVIEW.

UNDERPINNING DESIGN AND SHOP DRAWINGS:

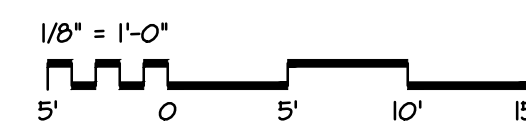
- SUBMIT COLORED PHOTOGRAPHS OF TEST PITS AND FOOTINGS AND OTHER INFORMATION WITH MEASUREMENTS, SHOW TEST PIT LOCATIONS ON FOUNDATION PLAN AND LIST TEST FINDINGS ON A SECTION SHOWING EXISTING CONDITIONS INFORMATION.
- COMPLETE DESIGN LOAD ANALYSIS OF THE UNDERPINNING, i.e. LIST DEAD LOADS, SUPERIMPOSED DEAD LOADS, LIVE LOADS, SOIL BEARING VALUE, MATERIALS SPECIFICATION, ETC USED TO DESIGN THE UNDERPINNING FOOTINGS AND WALLS.
- PROVIDE CONTINUOUS UNDERPINNING SEQUENCE TO ENSURE UNEXCAVATED CLEAR DISTANCE OF 12' MAX OPEN PITS AT ANY TIME AND SPECIFY STARTING SEGMENT AND DIRECTION OF UNDERPINNING EXECUTION.

METHOD OF CONSTRUCTION:

- **SHORING:** WHEREVER EXISTING LOADS ARE TO BE TRANSFERRED TO NEW UNDERPINNING, THE EXISTING CONSTRUCTION SHALL BE ADEQUATELY SHORED WITH STEEL OR HEAVY TIMBER MEMBERS IN ORDER TO TRANSFER THE EXISTING LOAD. ALL LOADS SHALL BE TRANSFERRED TO SHORING BY THE USE OF WEDGES AND/OR JACKS. BEFORE ANY LOAD IS TAKEN BY SHORING SET GAGE MARKS TO DETECT ANY UPLIFT WHEN LOADS ARE TAKEN BY JACKS DURING OPERATIONS, OR AFTER LOADS ARE TRANSFERRED TO NEW FOUNDATIONS. GAGES SHALL BE CHECKED AT LEAST TWICE DAILY AND JACKS ADJUSTED OR ADDITIONAL BLOCKING PLACED AS REQUIRED BY CONDITIONS. SHORING SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE ERECTION OF NEW WORK.
- **UNDERPINNING FOR STRUCTURE** SHALL BE PERFORMED BY THE METHOD OF EXCAVATING APPROACH PITS, AND POURING SHORT SECTIONS OF UNDERPINNING UNDER PORTIONS OF THE STRUCTURE IN PANELS NOT TO EXCEED 5 FEET IN LENGTH. THE EXISTING STRUCTURE SHALL BE ADEQUATELY SHORED DURING UNDERPINNING OPERATIONS. AFTER THE UNDERPINNING CONCRETE HAS SET A MINIMUM OF 7 DAYS, USE STEEL WEDGES TO INSURE THE LOAD IS TRANSFERRED FROM THE EXISTING FOOTING TO THE UNDERPINNING PRIOR TO FILLING THE SPACE WITH NON-SHRINK GROUT. LOCATE THE STEEL WEDGES TO PROVIDE A MINIMUM OF 3 INCHES OF GROUT COVER. THE SPACE BETWEEN TOP OF UNDERPINNING AND BOTTOM OF EXISTING STRUCTURE SHALL BE THOROUGHLY PACKED WITH NON-SHRINK GROUT AFTER THE STEEL WEDGES ARE IN PLACE. LOAD SHALL NOT BE TRANSFERRED UNTIL THE GROUT HAS CURED FOR AT LEAST THREE DAYS. THE LOAD SHALL BE REMOVED FROM THE SHORES AND TRANSFERRED TO THE NEW CONSTRUCTION GRADUALLY BY RELIEVING THE PRESSURE ON THE JACKS. GAGES MONITORING SETTLEMENT SHALL BE CHECKED CONTINUOUSLY DURING TRANSFER OF LOAD, STOPPING AND ADJUSTING IF ANY SETTLEMENT OCCURS. AFTER LOAD IS TRANSFERRED TO NEW CONSTRUCTION, REMOVE SHORES AND PATCH ANY OPENINGS IN EXISTING CONSTRUCTION AS REQUIRED.
- **DEBRIS:** REMOVE, AS IT ACCUMULATES, ALL DEBRIS RESULTING FROM DEMOLITION AND EXCAVATION OPERATIONS.
- **UNDERPINNING WORK** SHALL BE PERFORMED BY A SPECIALTY CONTRACTOR LICENSED, INSURED AND BONDED IN WASHINGTON, DC AND HAVE A MINIMUM OF 5 YEARS OF CONTINUOUS EXPERIENCE IN THIS TYPE OF WORK AND UNDER SIMILAR CONDITIONS.



FOUNDATION PLAN
1/8" = 1'-0"



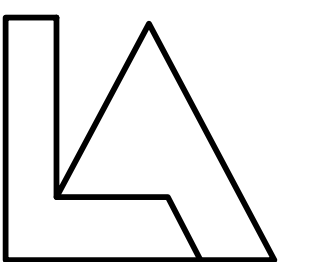
PLAN NOTES:

- INDICATES SLAB-ON-GRADE THICKNESS.
- (XXXXXX) INDICATES TOP OF SLAB ELEVATION.
- (XXXXXX) INDICATES TOP OF FOOTING ELEVATION.
- INDICATES STEPPED FOOTING.
- FD INDICATES FLOOR DRAIN.
- FI INDICATES CONCRETE FOOTING, SEE FOOTING SCHEDULE ON S201.
- PI INDICATES CONCRETE PIER, SEE PIER DETAILS ON S201.
- CJ INDICATES CONTROL JOINT IN SLAB-ON-GRADE.
- EP INDICATES EQUIPMENT PAD.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS.
- SEE DRAWING S201 FOR TYPICAL DETAILS.



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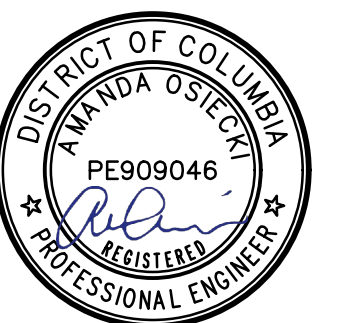
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DRAWN ACO

CHECKED JAS

DATE 12-1-2017 BID SET

DRAWING TITLE

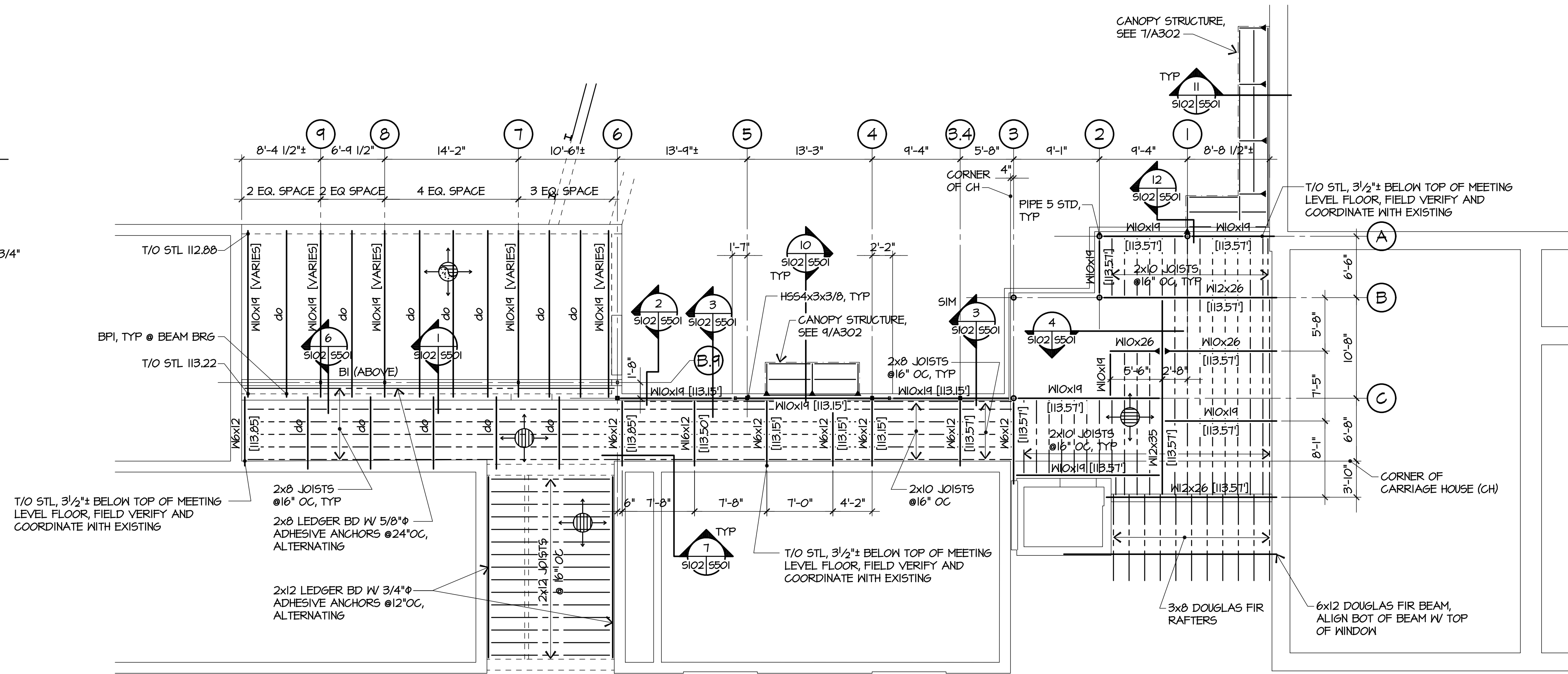
**STRUCTURAL
FOUNDATION PLAN**

DRAWING NUMBER

S101

PLAN NOTES

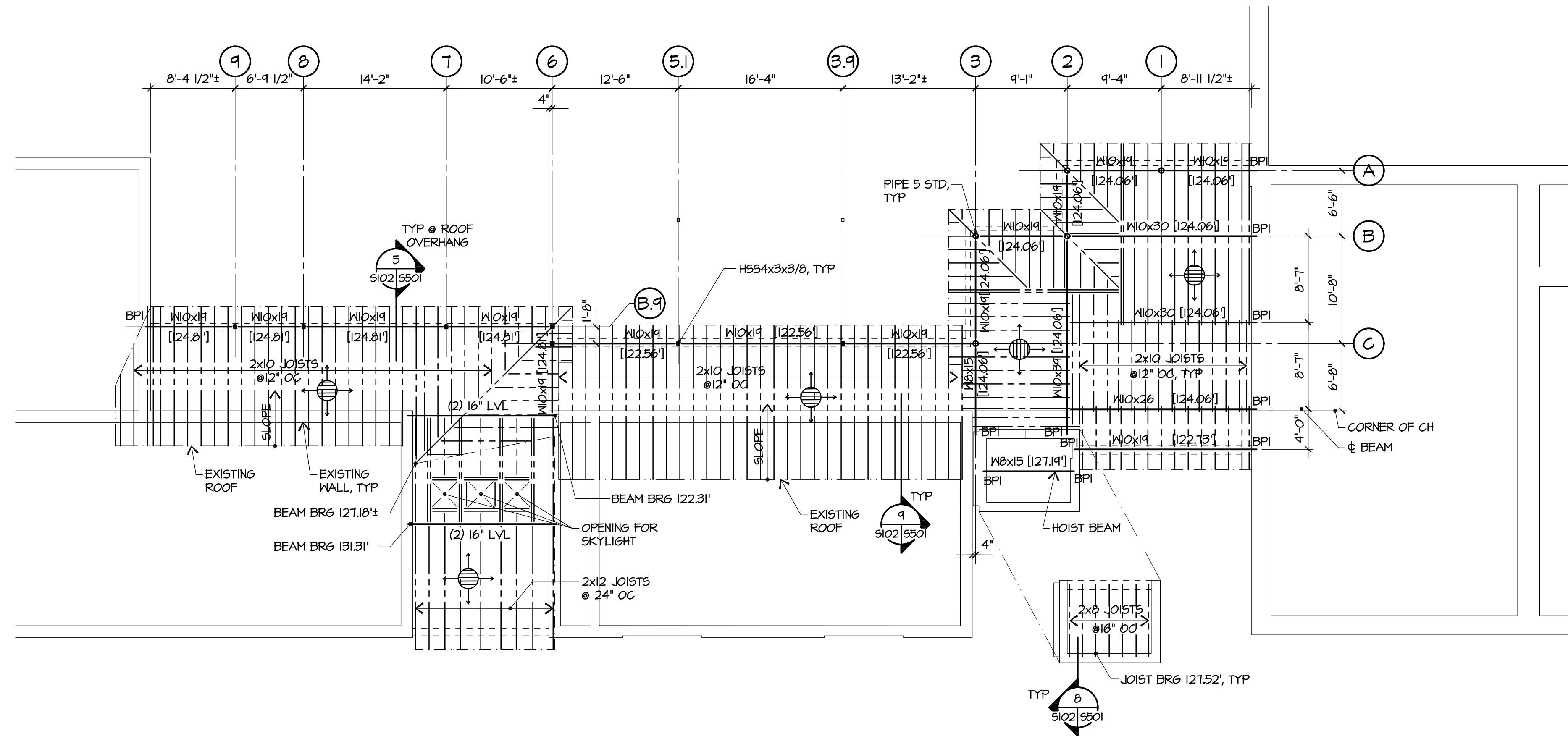
- INDICATES 1/2" GALV NON-COMPOSITE FLOOR DECK + 2 1/2" CONCRETE SLAB REINFORCED W/ 6x6-M2.9xM2.9
- INDICATES (1) LAYER 1/2" PLYWOOD SHEATHING + (1) LAYER 3/4" PLYWOOD SHEATHING
- [XXXXXX] INDICATES TOP OF STEEL ELEVATION.
- BPI INDICATES BEARING @ 5/8 x 7 x 0'-4"
- ▲ INDICATES MOMENT CONNECTION.
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS.
- SEE S201 FOR GENERAL NOTES AND S202 FOR TYPICAL DETAILS.



MEETING LEVEL FLOOR FRAMING PLAN
1/8" = 1'-0"

PLAN NOTES

- INDICATES 3/4" PLYWOOD ROOF SHEATHING.
- [XXXXXX] INDICATES TOP OF STEEL ELEVATION.
- BPI INDICATES BEARING @ 5/8 x 7 x 0'-4"
- SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS.
- SEE S201 FOR GENERAL NOTES AND S202 FOR TYPICAL DETAILS.

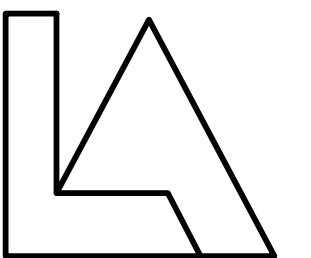


ROOF FRAMING PLAN
1/8" = 1'-0"



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PROJECT TITLE

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REVISIONS

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DATE 12-1-2017 BID SET

DRAWING TITLE

**STRUCTURAL
FRAMING PLANS**

DRAWING NUMBER

S102

STRUCTURAL GENERAL NOTES:

2013 DISTRICT OF COLUMBIA BUILDING CODE

RISK CATEGORY II

LIVE LOADS:

- ROOF 25 PSF
- LOBBY 100 PSF
- CORRIDORS ABOVE FIRST FLOOR 100 PSF

SNOW LOADS:

- GROUND SNOW LOAD (P_g) 30 PSF
- FLAT-ROOF SNOW LOAD (P_f) 21 PSF
- SNOW EXPOSURE FACTOR (C_e) 1.0
- IMPORTANCE FACTOR (I_s) 1.0
- THERMAL FACTOR (C_t) 1.0

WIND LOADS:

- ULTIMATE WIND SPEED (3-SECOND GUST) 115 MPH
- BASIC WIND SPEED (3-SECOND GUST) 90 MPH
- WIND EXPOSURE FACTOR B
- IMPORTANCE FACTOR (I_w) 1.0
- INTERNAL PRESSURE COEFFICIENT (C_{pi}) +/-0.18
- COMPONENTS AND CLADDING PER ASCE 7-10

SEISMIC:

- SPECTRAL RESPONSE ACCELERATION S_s 0.064g
- SPECTRAL RESPONSE COEFFICIENTS S_{ps} 0.04g

- SITE CLASS:

- BASIC SEISMIC-FORCE-RESISTING SYSTEM ORDINARY STEEL CONCENTRICALLY BRACED FRAME.
- RESPONSE MODIFICATION FACTOR (R) 3.25
- SEISMIC DESIGN CATEGORY B
- IMPORTANCE FACTOR (I_e) 1.0
- ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE FOUNDATION.

- ASSUMED SOIL BEARING VALUE:

- CONCRETE SLAB-ON-GRADE TO BE POURED OVER A VAPOR BARRIER AND 6" GRAVEL FILL.
- FOOTINGS TO REST A MINIMUM OF ONE FOOT INTO UNDISTURBED SOIL, OR ENGINEERED FILL.

CONCRETE:

- MAXIMUM WATER/CEMENT RATIO: 0.45 W/CM
- CONCRETE STRENGTHS:

ITEM	STRENGTH	WEIGHT
SLABS-ON-GRADE, PIERS, FOOTINGS, WALLS, SLABS, AND ALL OTHERS	4500 psi	145 pcf
SIDEWALKS	3500 psi	145 pcf

- REINFORCING BARS: ASTM A-615, GRADE 60.
- WELDED WIRE FABRIC (WWF): ASTM A-105

ITEM	SIZE
SLAB-ON-GRADE (6" THICK OR LESS)	6x6 - #2.9x#2.9
CONCRETE POURED OVER METAL DECK	6x6 - #2.9x#2.9
MECHANICAL EQUIPMENT PADS	6x6 - #2.9x#2.9

- PROVIDE 2x4 KEYS, UNLESS NOTED OTHERWISE.
- PROVIDE #4 @ 12 E.W.E.F. IN SLABS OR WALLS NOT COVERED BY A NOTE OR SECTION.
- CONCRETE PROTECTION FOR REINFORCING:

- FOOTINGS = 3" WALLS - EXTERIOR FACE = 1-1/2"
- PIERS = 2" WALLS - INTERIOR FACE = 3/4"
- SLABS = 3/4"

- PROVIDE 1/2" CHAMFER ON CONCRETE CORNERS THAT WILL BE EXPOSED TO VIEW.
- CAST IN PLACE CONCRETE WORK SHALL COMPLY WITH ACI 318-11.
- PROVIDE A CHEMICAL FLOOR HARDENER FINISH ON ALL CONCRETE SLABS THAT DO NOT RECEIVE A FLOOR COVERING.

- PROVIDE CONCRETE PADS REQUIRED FOR THE WORK OF OTHER TRADES.
- USE AIR-ENTRAINING ADMIXTURE IN ALL CONCRETE EXPOSED TO FREEZING AND THAWING.

- WHERE CONCRETE SURFACES ABUT OR ARE VENEERED WITH MASONRY PROVIDE VERTICAL DOVETAIL ANCHOR SLOTS FOR MASONRY ANCHORS AT 24" O.C. MAXIMUM.
- LOCATE SLAB-ON-GRADE CONSTRUCTION JOINTS AT COLUMN CENTER LINES MAXIMUM SPACING SHALL BE 50 FEET O.C. IN EITHER DIRECTION. PLACE SLAB-ON-GRADE IN ALTERNATE PANELS OF APPROXIMATELY 2,000 SF.
- LOCATE SLAB-ON-GRADE CONTROL JOINTS AT MAXIMUM SPACING OF 20 FOOT IN EITHER DIRECTION.

STRUCTURAL STEEL:

- STRUCTURAL WIDE FLANGE SHAPES: ASTM A-992.
- STEEL ANGLES, CHANNELS AND PLATES: ASTM A-36.
- COLD-FORMED STEEL TUBING: ASTM A500, GRADE B.
- STEEL PIPE: ASTM A-53, TYPE E OR S, GRADE B.
- ANCHOR BOLTS: ASTM A-307.
- BOLTS FOR BOLTED CONNECTIONS: ASTM A-325.
- HEADED SHEAR STUDS: 3/4" DIAMETER x 3" LONG.
- FOR CONNECTIONS NOT DETAILED OR NOTED, DESIGN CONNECTIONS IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL STEEL (2005).
- SUPPLY LOOSE ANGLE LINTELS OVER MASONRY OPENINGS AND RECESSES, UNLESS NOTED OTHERWISE; FOR EACH 4" OF WALL THICKNESS ANGLES SHALL BE AS FOLLOWS:

MASONRY OPENING	ANGLE SIZE	BEARING EACH END
4'-0" OR LESS	3-1/2x3-1/2x5/16	4"
BETWEEN 4'-1" AND 5'-11"	4x3-1/2x5/16	6"
BETWEEN 6'-0" AND 7'-11"	5x3-1/2x5/16	8"
BETWEEN 8'-0" AND 10'-0"	6x3-1/2x3/8	8"

- AT CAVITY WALL ABOVE PROVIDE (5x5x3/8 PLUS ANGLES AS NOTED ABOVE.
- GALVANIZE ALL EXTERIOR STRUCTURAL SHAPES, PLATES, AND BARS.
- PROVIDE MISCELLANEOUS STEEL FRAMING AT OPENINGS, EQUIPMENT SUPPORTS AND OTHER ITEMS REQUIRED BY THE WORK OF OTHER TRADES.
- STRUCTURAL STEEL WORK SHALL COMPLY WITH AISC SPECIFICATION STRUCTURAL STEEL BUILDING (2010).

METAL DECK:

- METAL FLOOR DECK SHALL BE NON-COMPOSITE FORM DECK 1-1/2" - 0.0245 INCH (GALVANIZED) WITH MINIMUM SECTION PROPERTIES AS FOLLOWS:

- S_{min} = 0.174in³ AND I_{min} = 0.177in⁴.

MASONRY:

- FILL BLOCK CELLS SOLID WITH CONCRETE GROUT AT REINFORCED MASONRY WALLS. CONCRETE GROUT SHALL HAVE F'c = 2500 psi WITH 1/2" MAX AGGREGATE SIZE.
- FILL BLOCK CELLS SOLID WITH CONCRETE GROUT AT ANCHORS. CONCRETE GROUT SHALL HAVE F'c = 2500 psi WITH 1/2" MAX AGGREGATE SIZE.

ANCHORS:

- 5/8" Ø ADHESIVE ANCHORS SHALL HAVE A 5" MINIMUM EMBEDMENT DEPTH WITH AN ULTIMATE PULLOUT STRENGTH OF 15900 lbs AND AN ULTIMATE SHEAR STRENGTH OF 14300 lbs.
- 3/4" Ø ADHESIVE ANCHORS SHALL HAVE A 6 5/8" MINIMUM EMBEDMENT DEPTH WITH AN ULTIMATE PULLOUT STRENGTH OF 24300 lbs AND AN ULTIMATE SHEAR STRENGTH OF 24300 lbs.

WOOD:

- DIMENSION LUMBER FRAMING: NO. 2.
- SPECIES: SOUTHERN PINE; SP1B.
- LAMINATED-VENEER LUMBER (LVL): EXTREME FIBER STRESS IN BENDING: 2450 PSI. MODULUS OF ELASTICITY: 1,900,000 PSI.
- FLYWOOD ROOF SHEATHING: EXTERIOR, STRUCTURAL 1.
- SPAN RATING: 24/0
- NOMINAL THICKNESS: NOT LESS THAN 5/8 INCH.
- ATTACHMENT OF ROOF DECK SHALL BE DESIGNED TO RESIST A MINIMUM UPLIFT OF 30 psf.
- FLYWOOD FLOOR SHEATHING: INTERIOR, STRUCTURAL 1.
- SPAN RATING: 24/0
- NOMINAL THICKNESS: NOT LESS THAN 5/8 INCH.
- FASTENERS: PROVIDE FASTENERS OF SIZE AND TYPE INDICATED THAT COMPLY WITH REQUIREMENTS SPECIFIED FOR MATERIAL AND MANUFACTURER. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, PRESERVE-PRESERVATIVE TREATED, OR IN AREA OF HIGH RELATIVE HUMIDITY, PROVIDE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A153/A153M
- A. NAILS, BRADS, AND STAPLES: ASTM F 1667
- B. POWER-DRIVEN FASTENERS: NES NER-272
- C. WOOD SCREWS: ASME B18.6.1
- D. LAG BOLTS: ASME B18.2.1
- E. BOLTS: STEEL BOLTS COMPLYING WITH ASTM A 307, GRADE A; WITH ASTM A 563 HEX NUTS AND, WHERE INDICATED, FLAT WASHERS.
- METAL FRAMING ANCHORS, RAFTER TIE DOWNS SHALL BE SIMPSON HB HURRICANE TIES.
- ALL WOOD MEMBERS IN AREAS DIRECTLY EXPOSED TO WEATHER OR GRAVEL SPACE SHALL BE PRESERVATIVE-TREATED IN ACCORDANCE WITH ANPA L11.
- FIELD CUTS, NOTCHES, AND DRILLED HOLES SHALL BE TREATED IN THE FIELD IN ACCORDANCE WITH ANPA M4.

COORDINATION:

- SEE ARCHITECTURAL, MECHANICAL, PLUMBING, CIVIL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS, SLEEVES, EQUIPMENT PADS, CURBS, DEPRESSIONS, INSERTS, AND OTHER EMBEDDED ITEMS.
- THE SIZES AND LOCATIONS OF ALL ROOF AND FLOOR OPENINGS, EQUIPMENT PADS, AND MECHANICAL EQUIPMENT SUPPORTS MUST BE VERIFIED AGAINST PURCHASED EQUIPMENT AND ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL COORDINATED SHOP DRAWINGS.

EXISTING CONDITIONS:

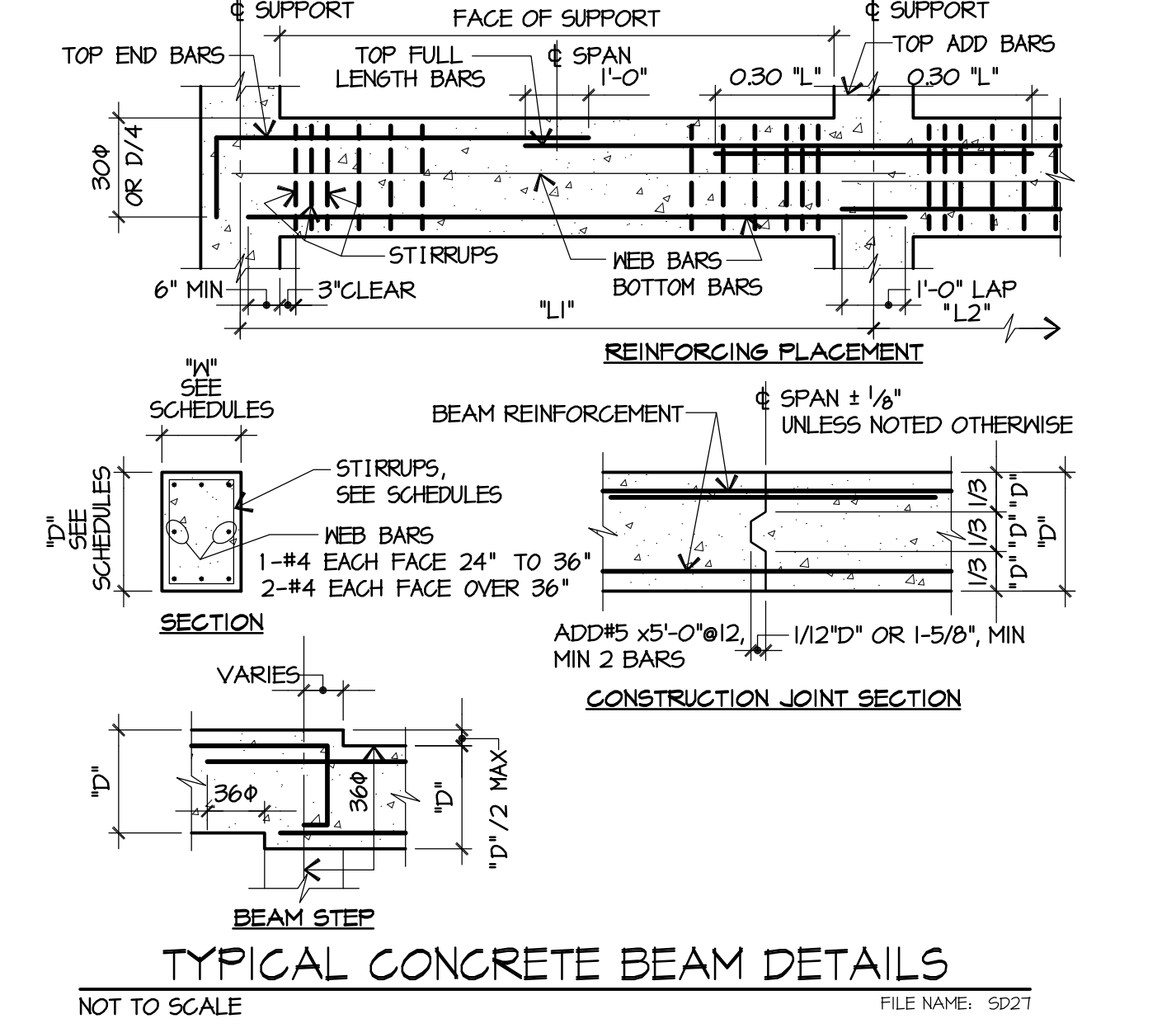
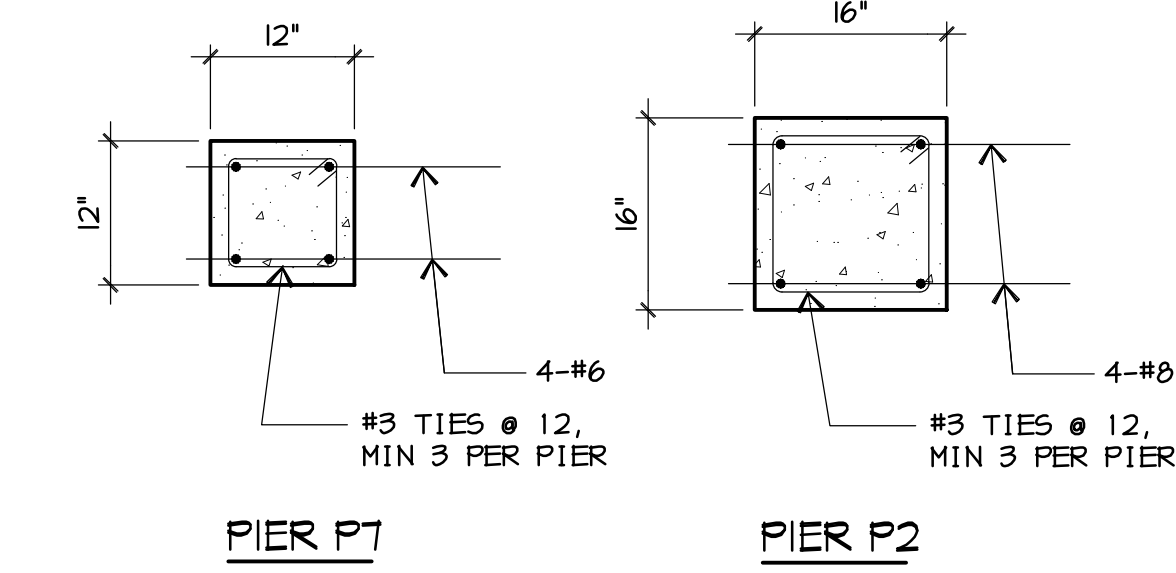
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION OF ANY ITEM.

CONDUIT BELOW SLAB-ON-GRADE:

- LOCATE CONDUIT IN GRAVEL BELOW CONCRETE SLAB-ON-GRADE.

MARK	SIZE	REINFORCING
F1	4'-0" x 4'-0" x 1'-0"	5-#5 EX Bottom
F2	6'-0" x 6'-0" x 1'-0"	6-#5 EX Bottom

MARK	SIZE		REINFORCING				STIRRUPS			REMARKS
	W	D	BOT	TOP END	TOP FL.	TOP ADD	SIZE	TYPE	SPACING (E.E.)	
BI	6	11"	2-#4	2-#4	2-#4	2-#4	#3	OPEN	3'	



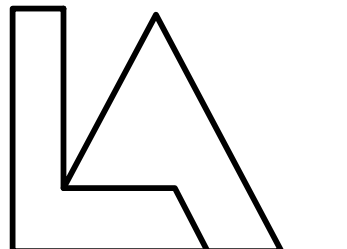
PIER DETAILS
3/4" = 1'-0"

TYPICAL CONCRETE BEAM DETAILS
NOT TO SCALE



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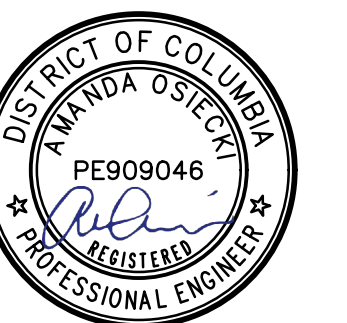
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STRUCTURAL
GENERAL NOTES &
SCHEDULES

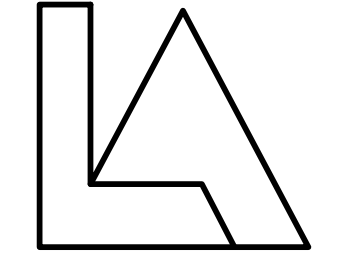
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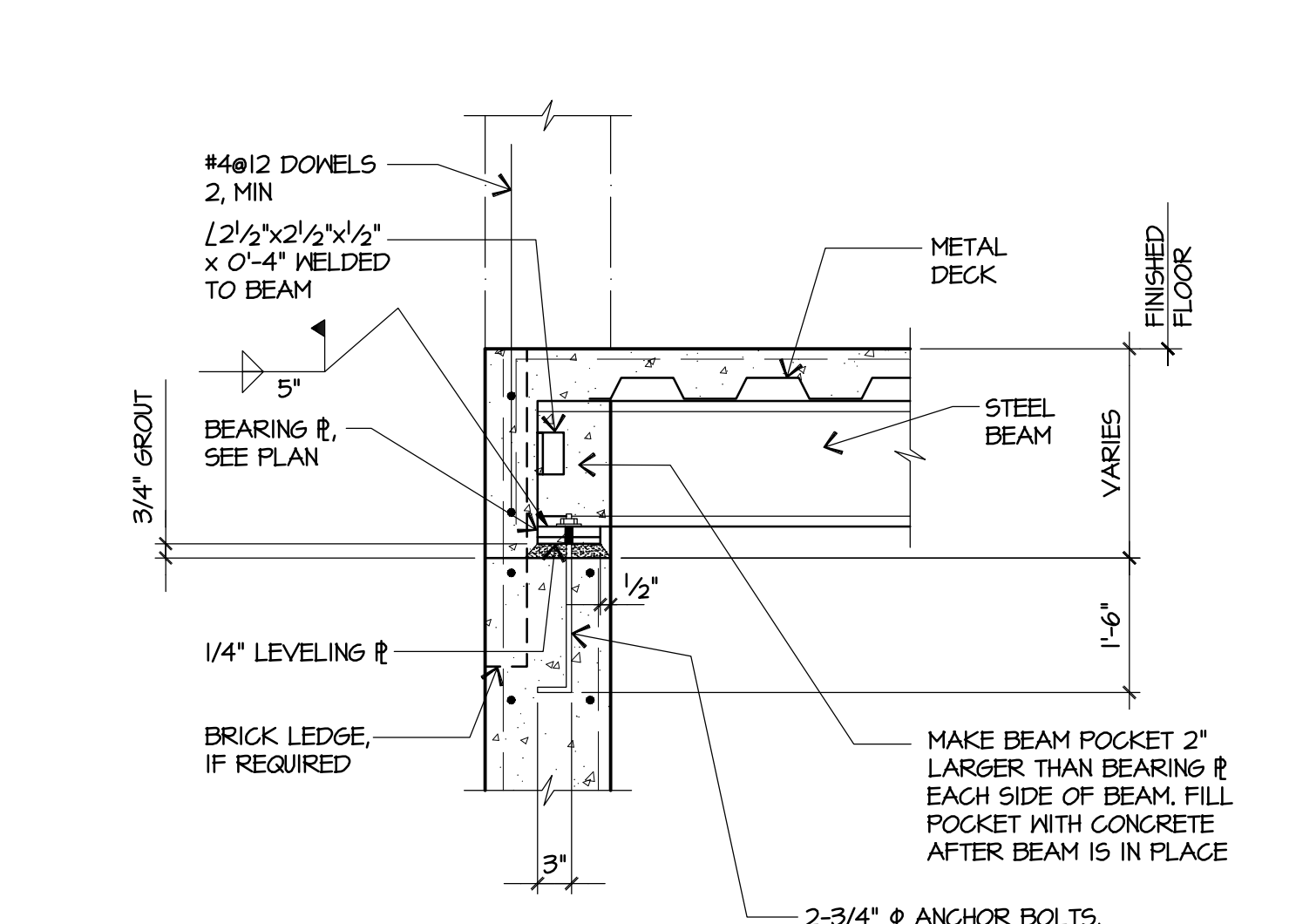
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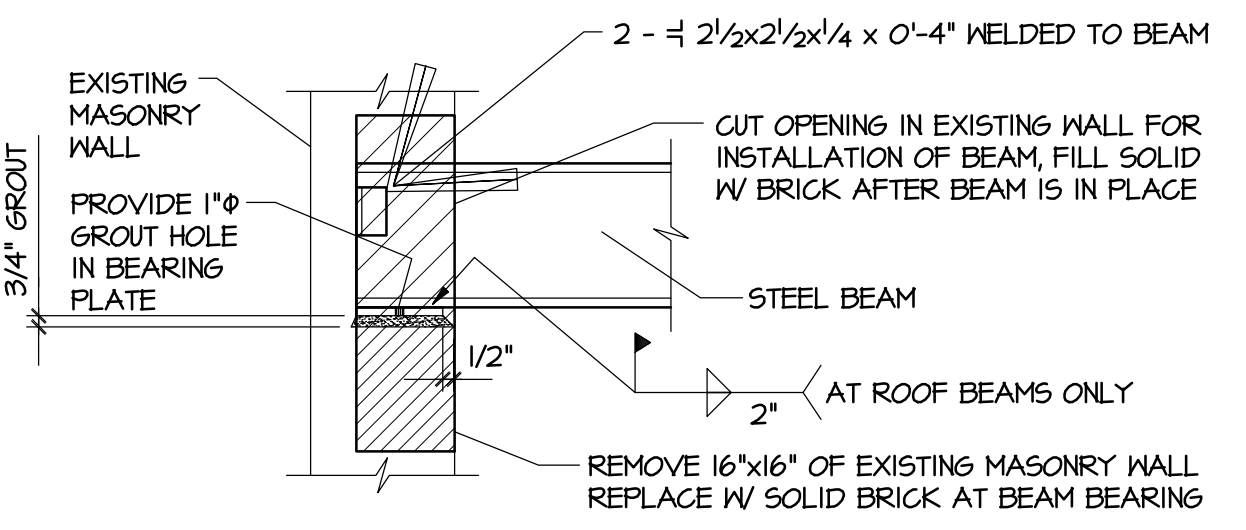
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TYPICAL DETAILS**

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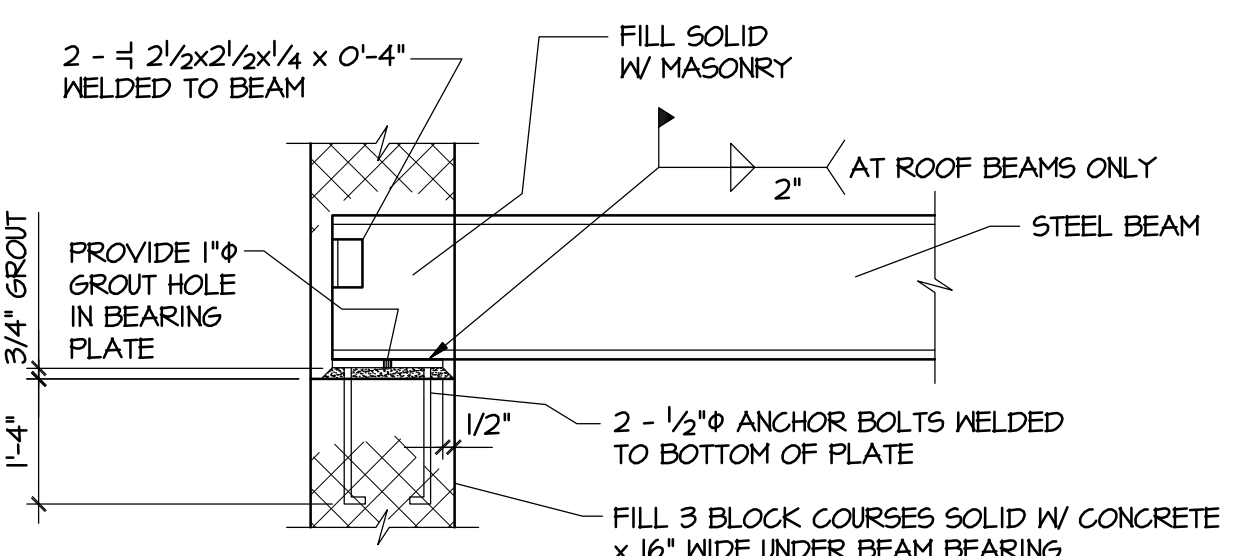
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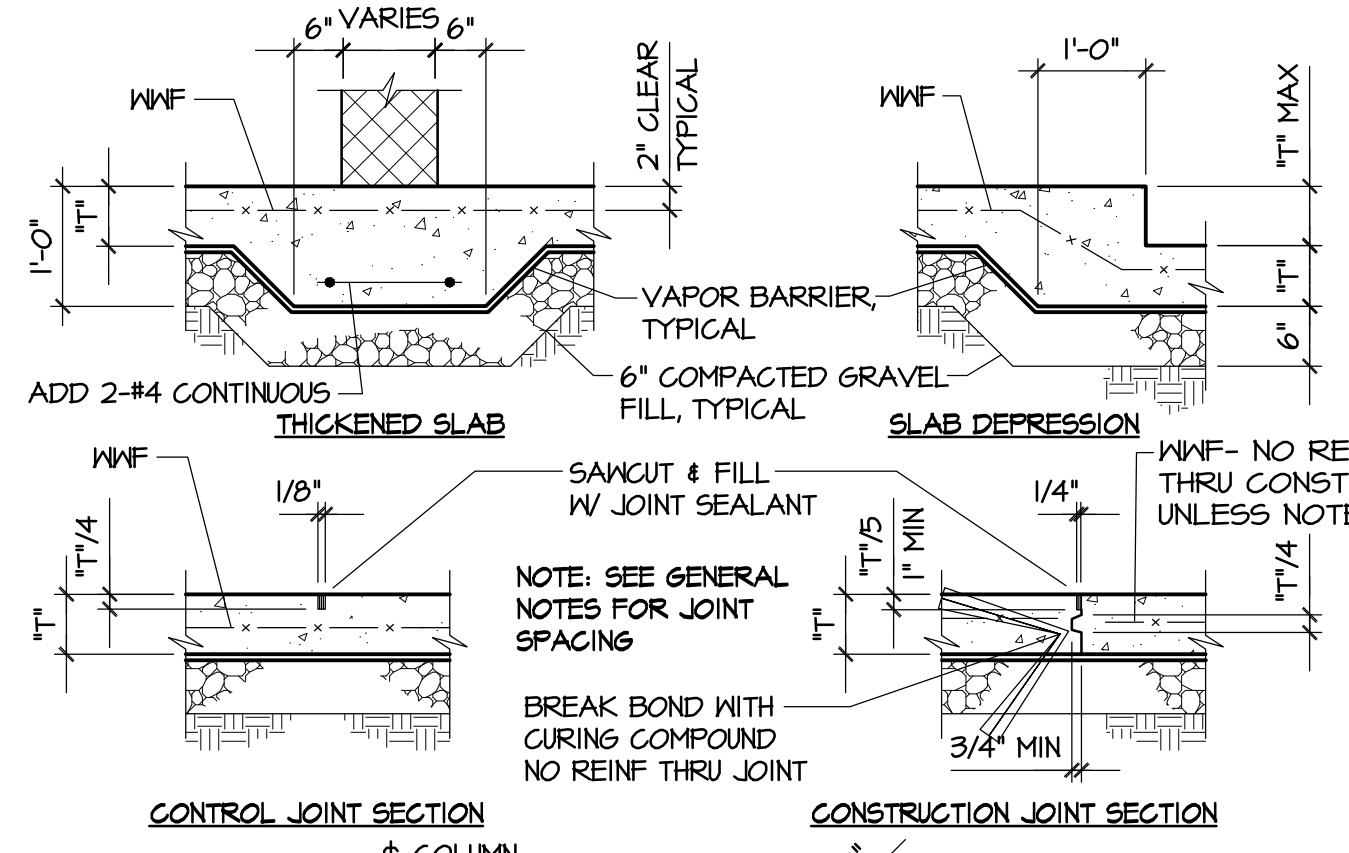
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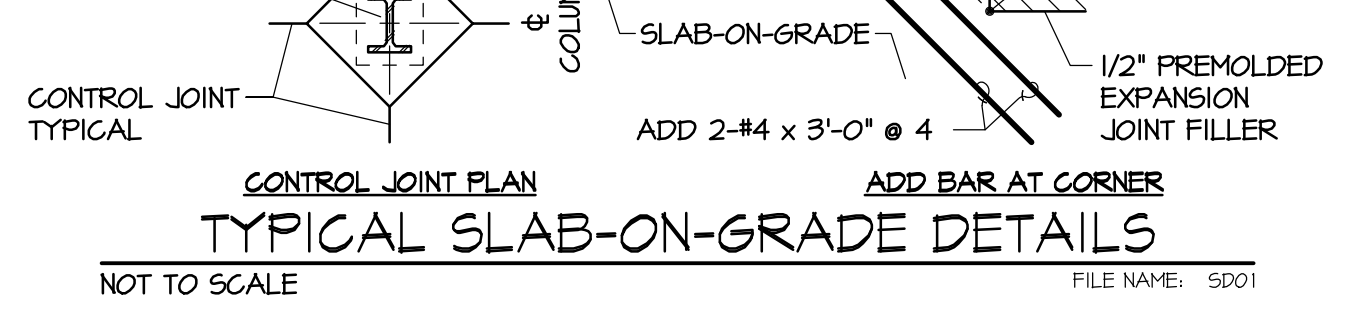
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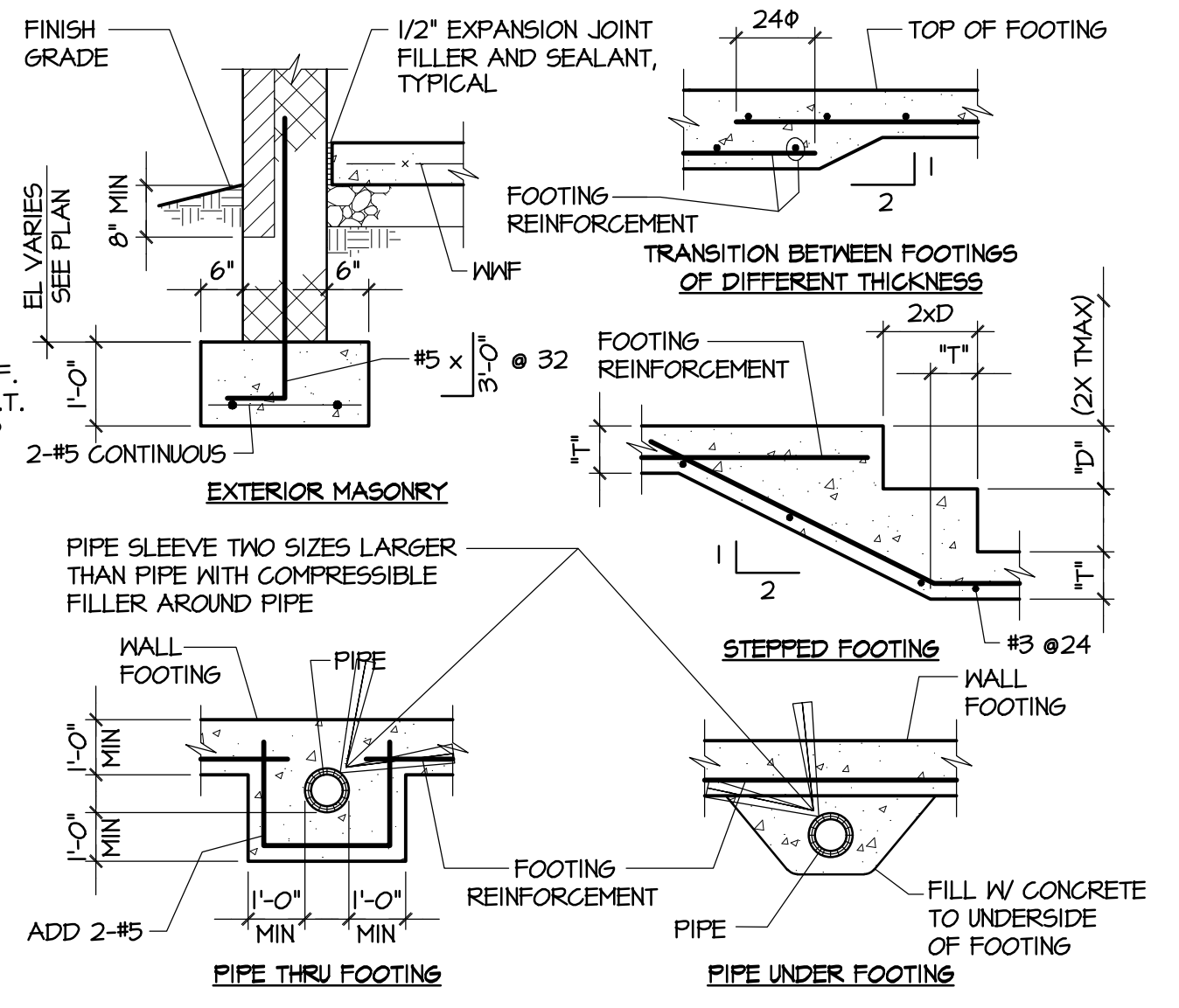
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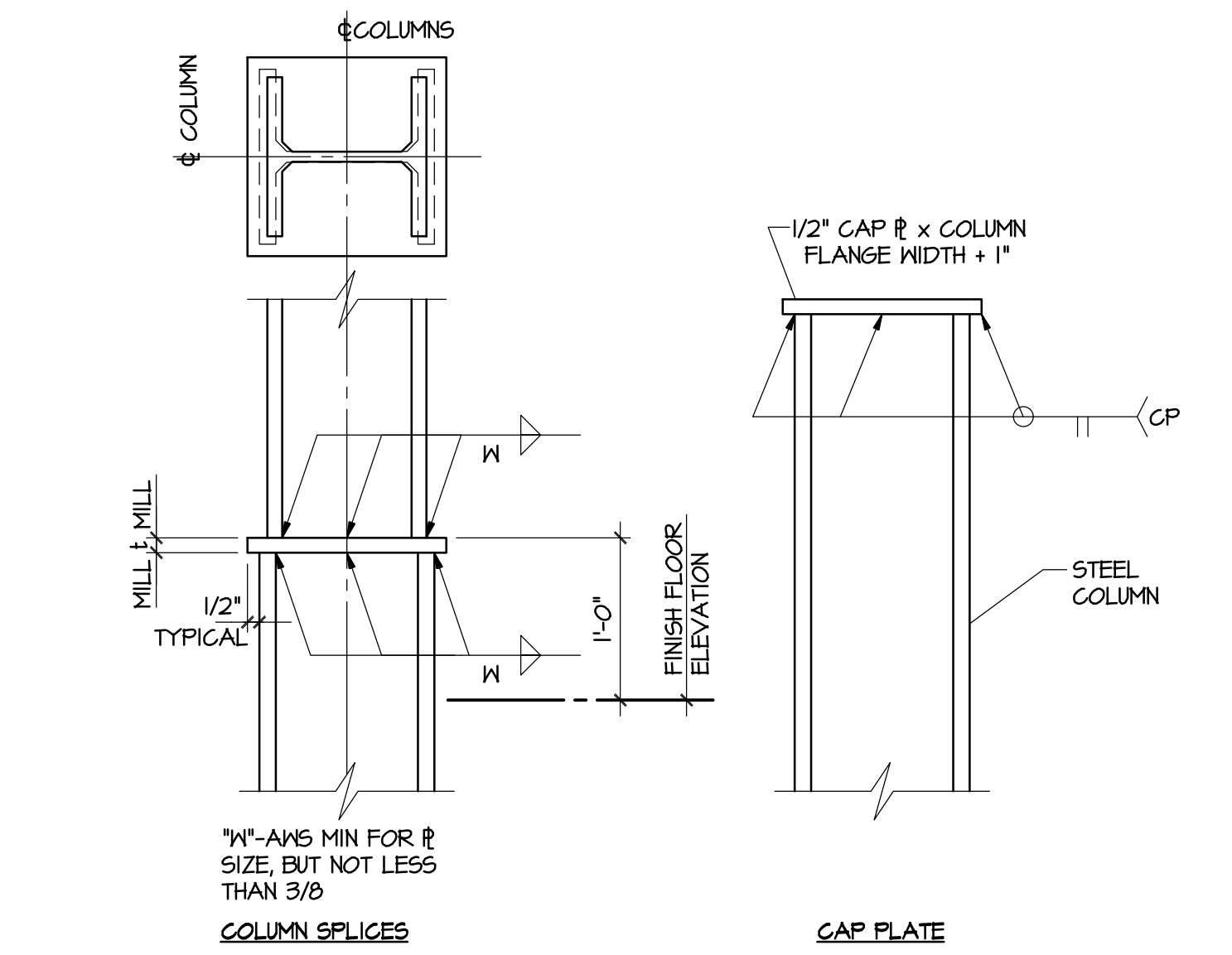
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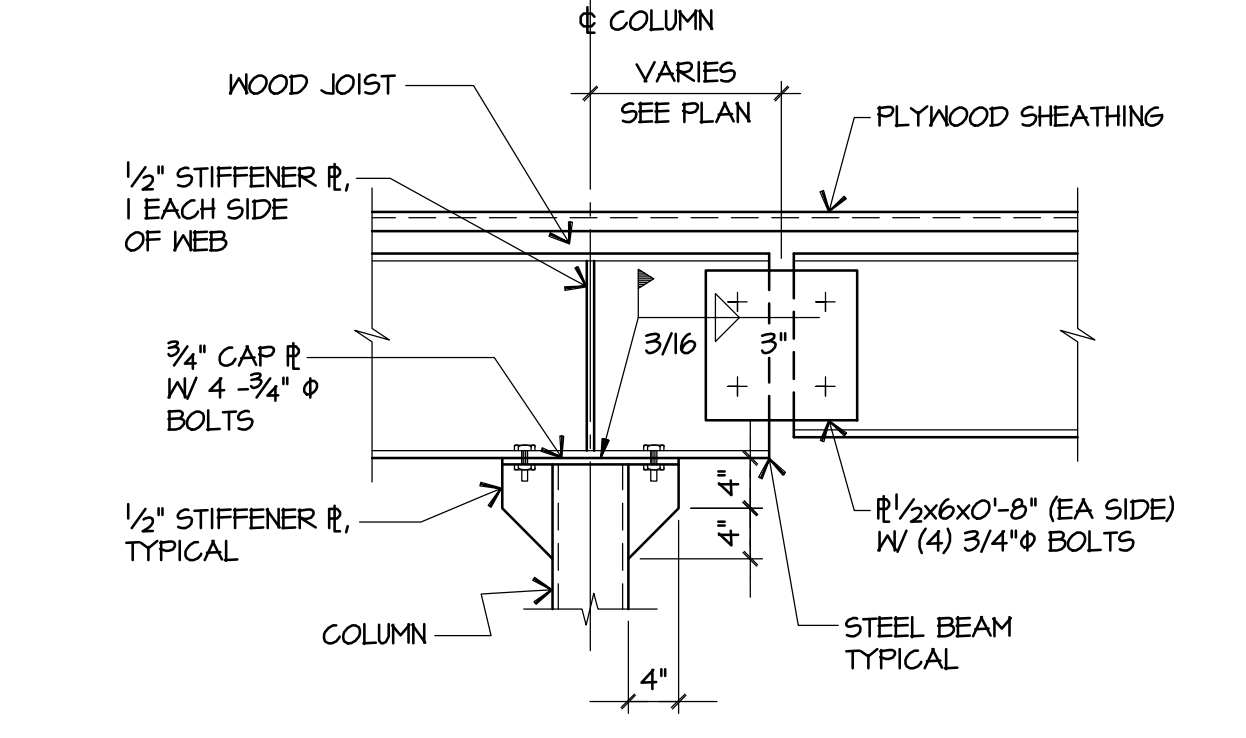
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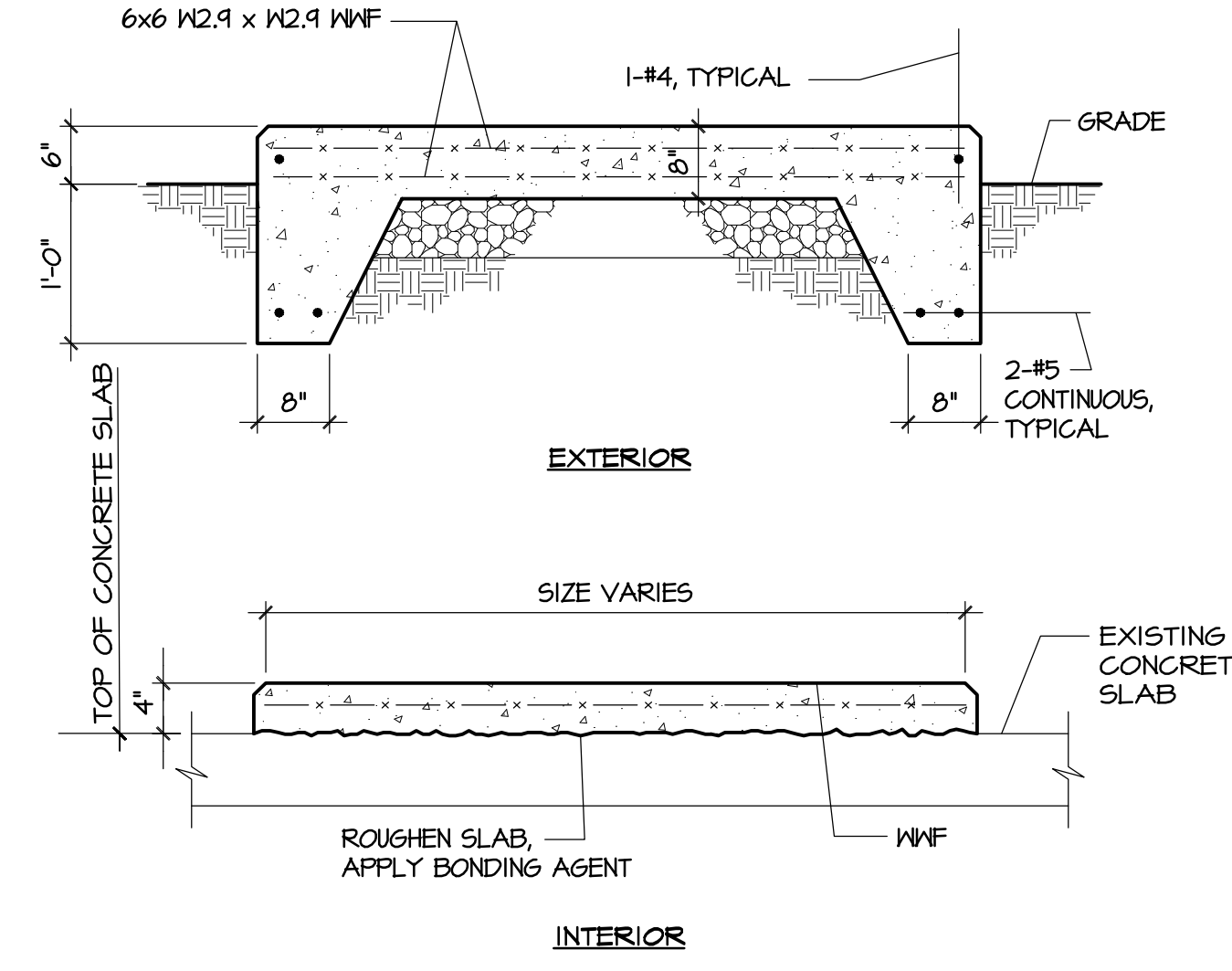
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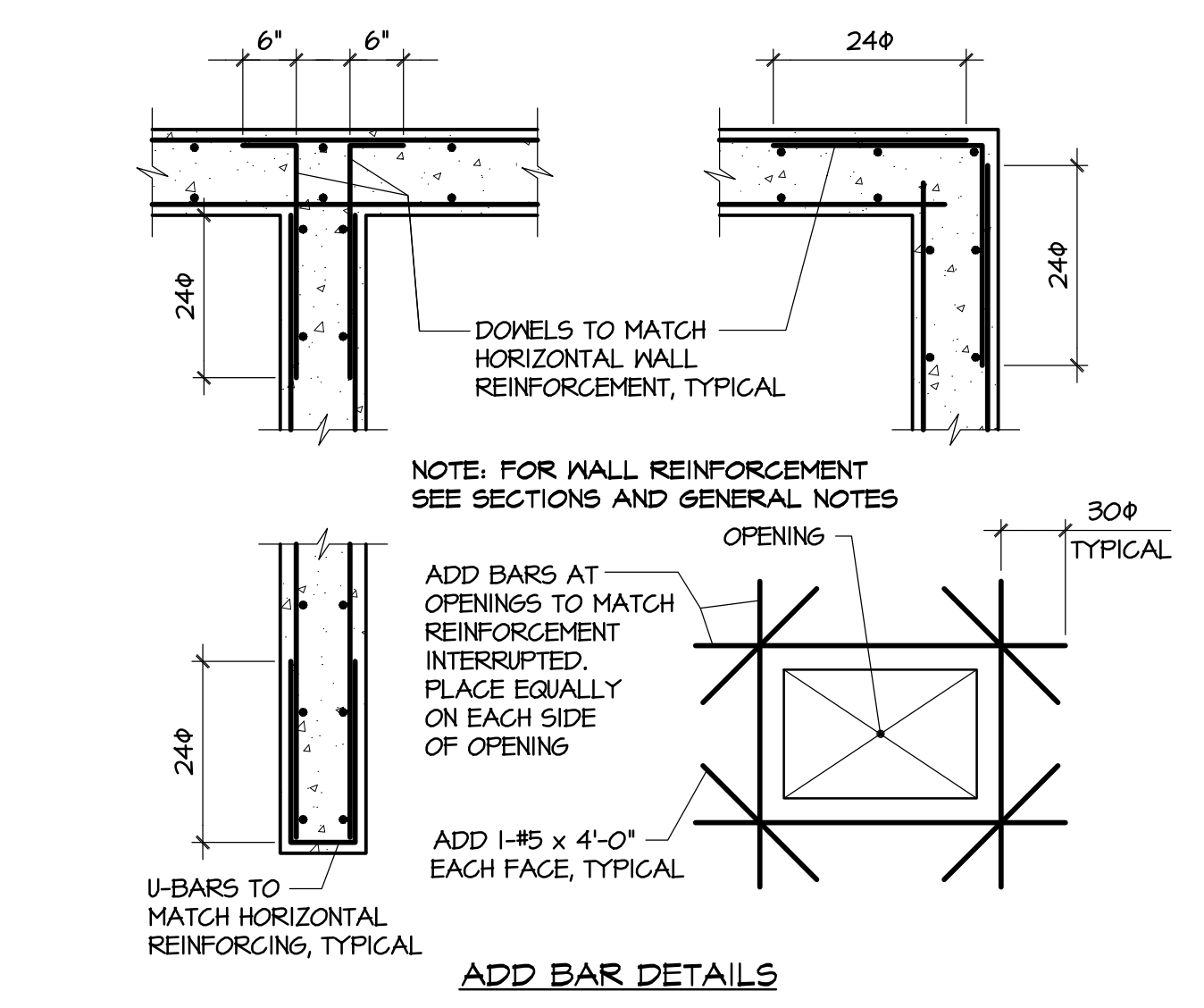
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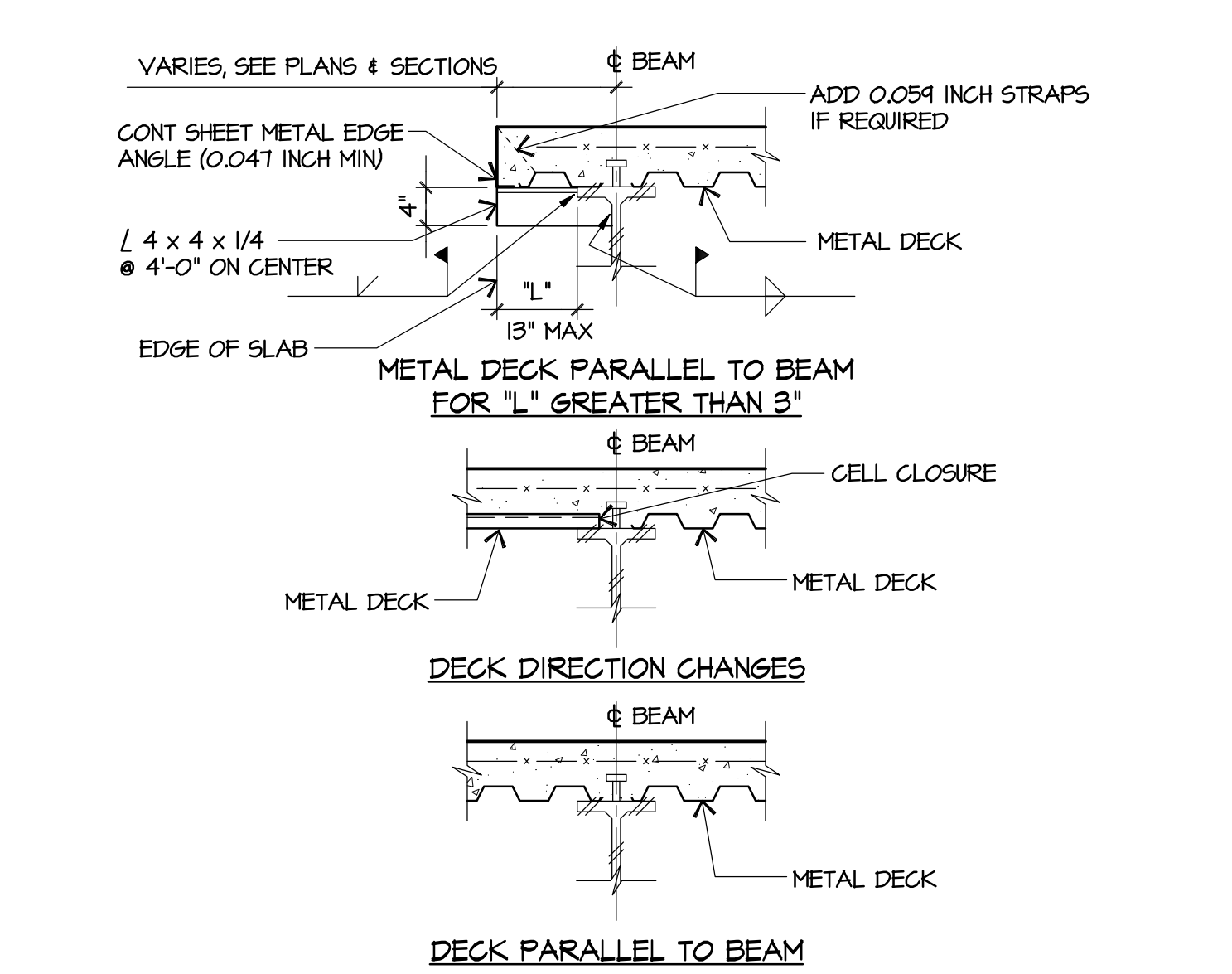
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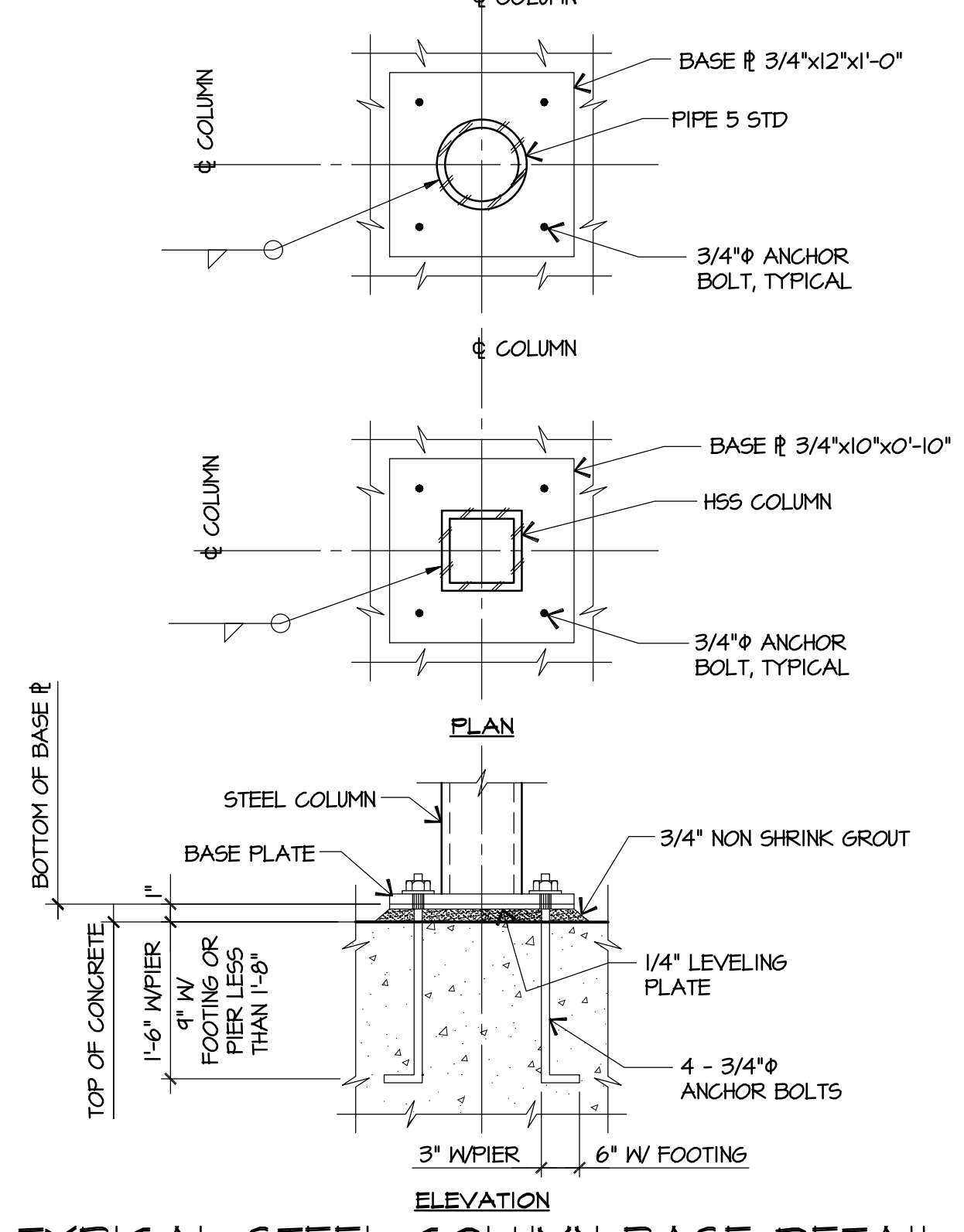
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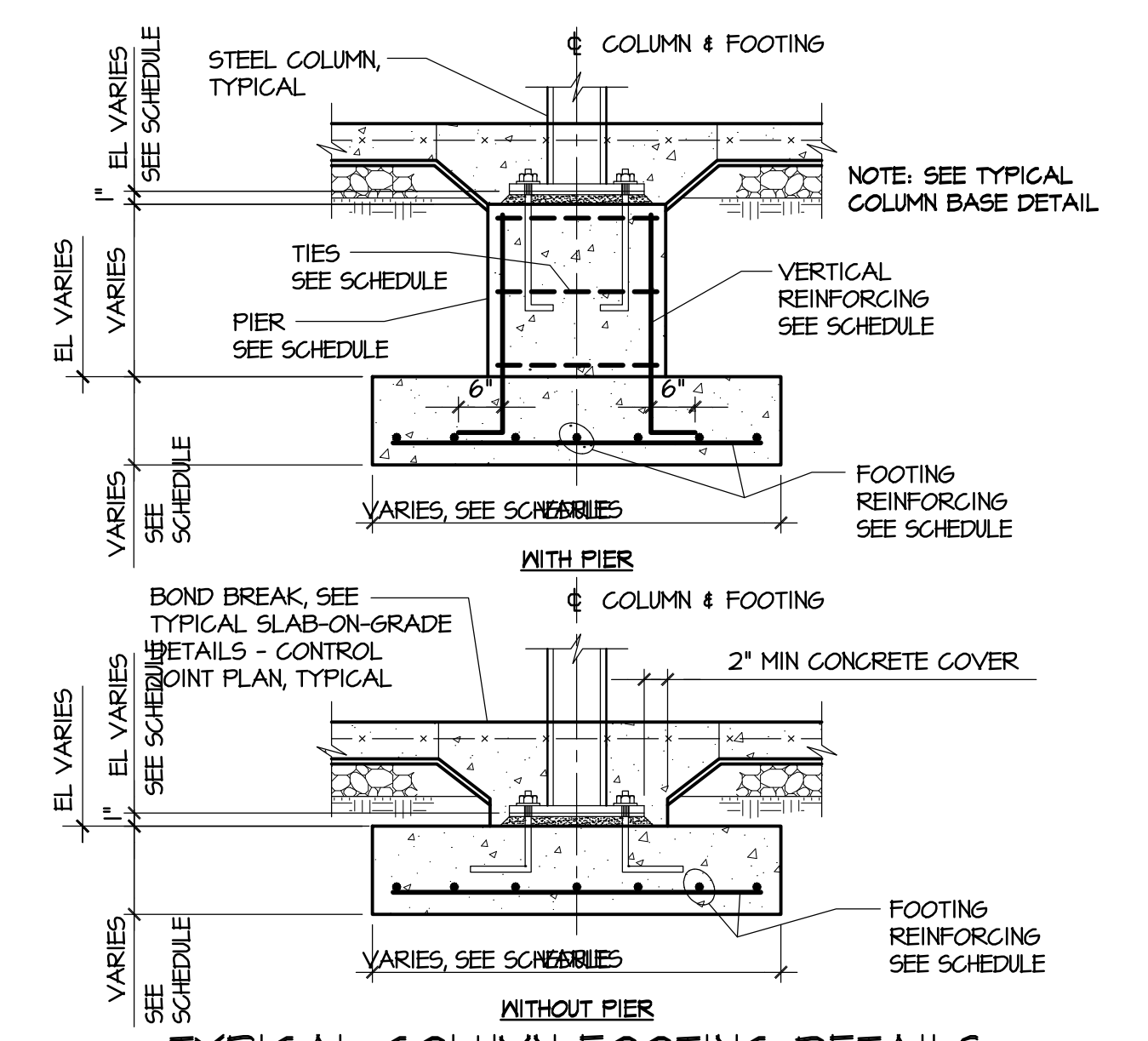
ADD BAR DETAILS



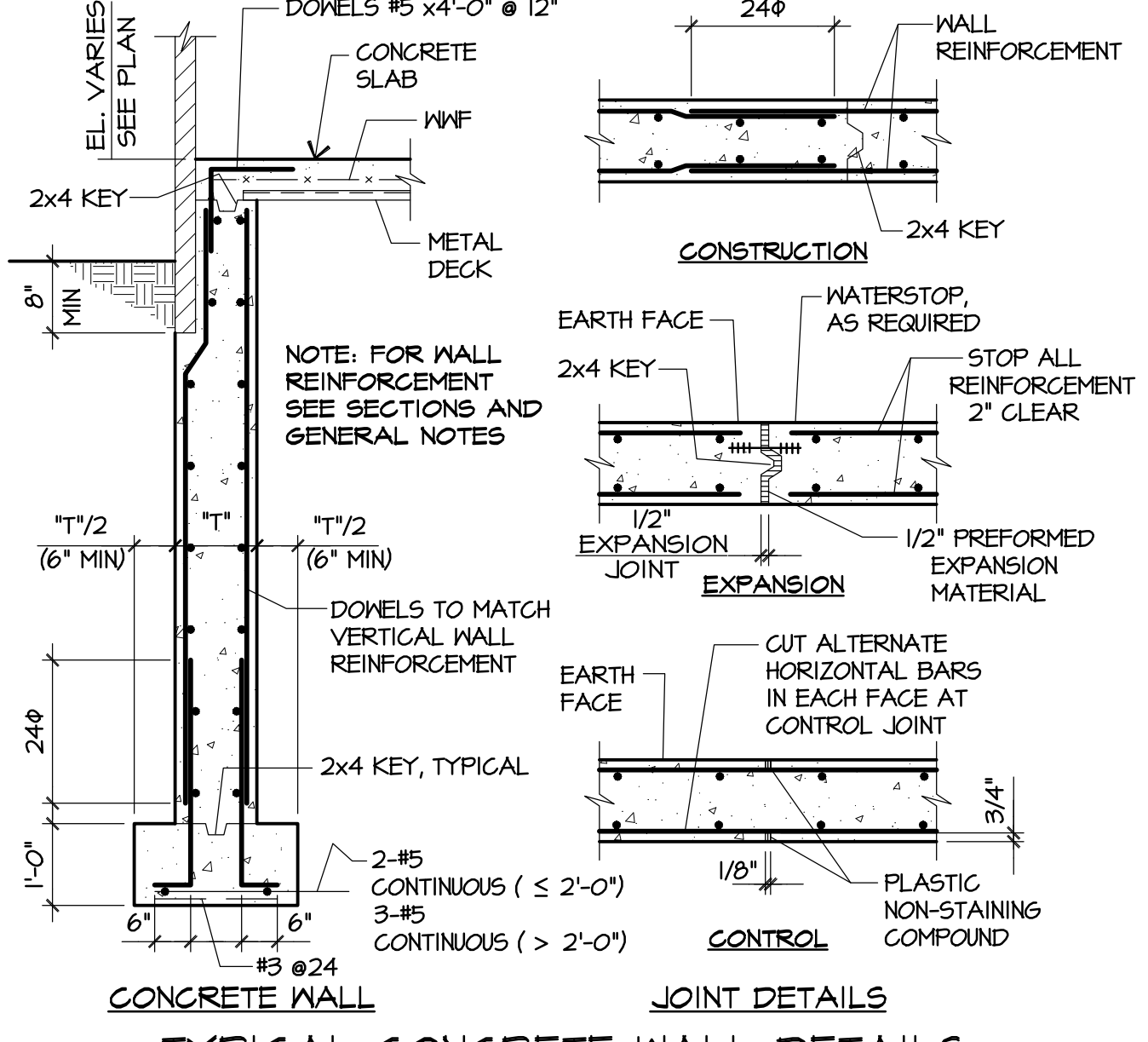
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TYPICAL STEEL COLUMN BASE DETAIL
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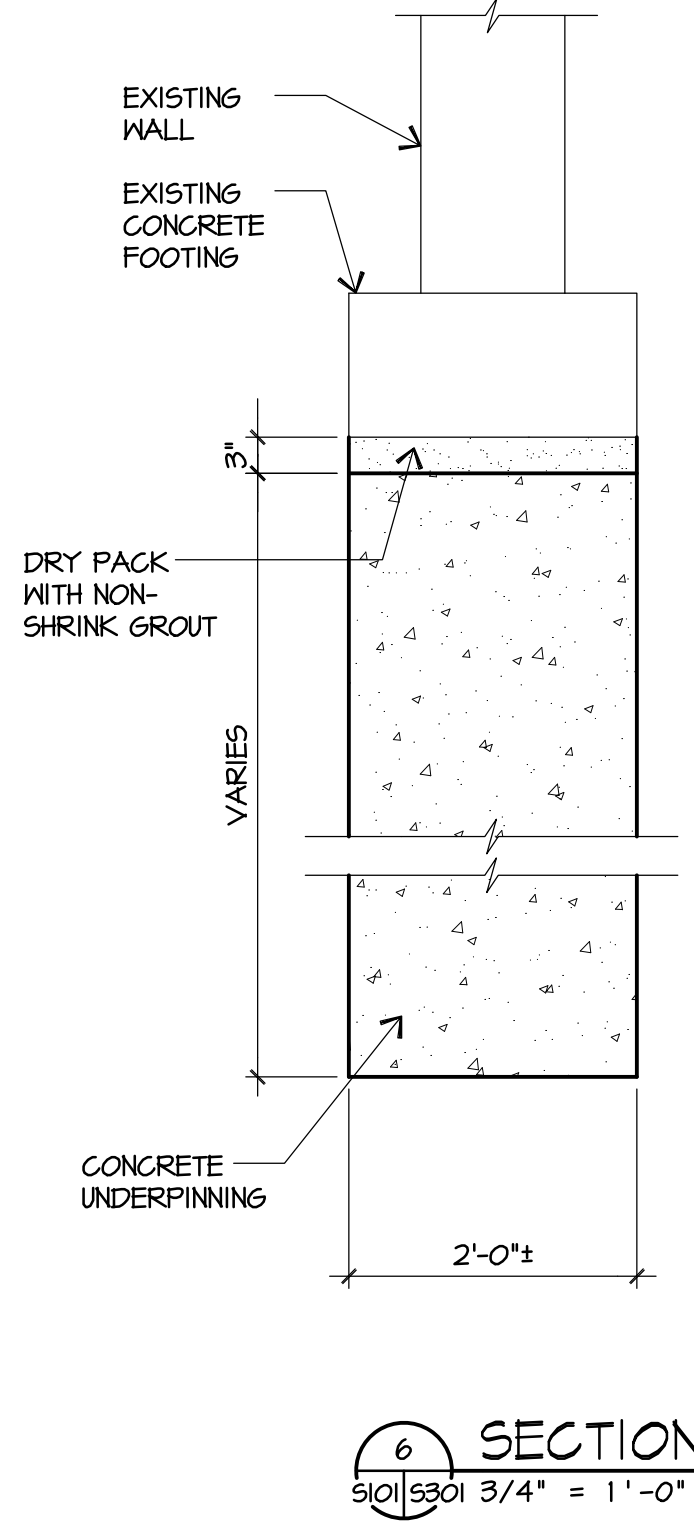
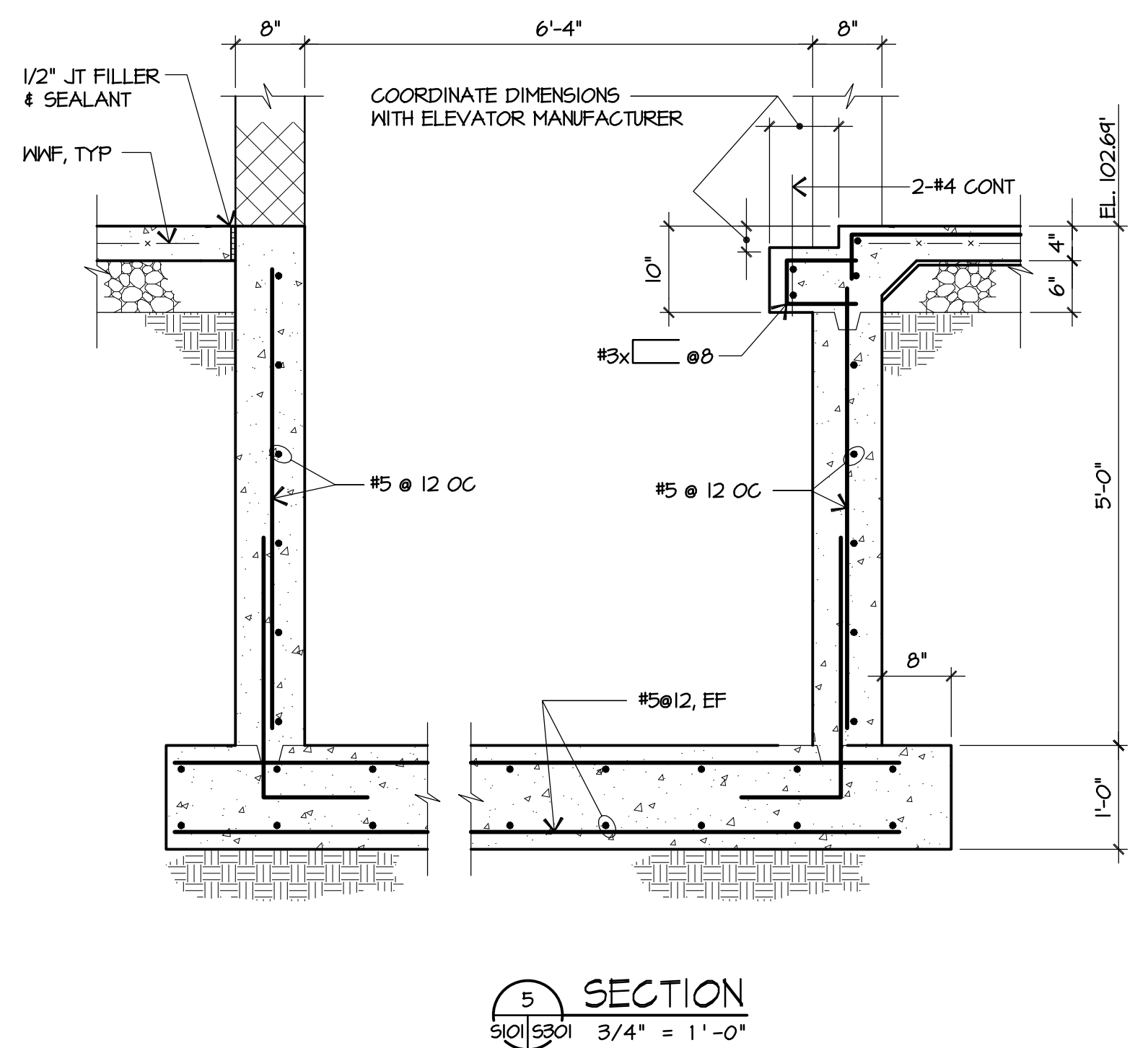
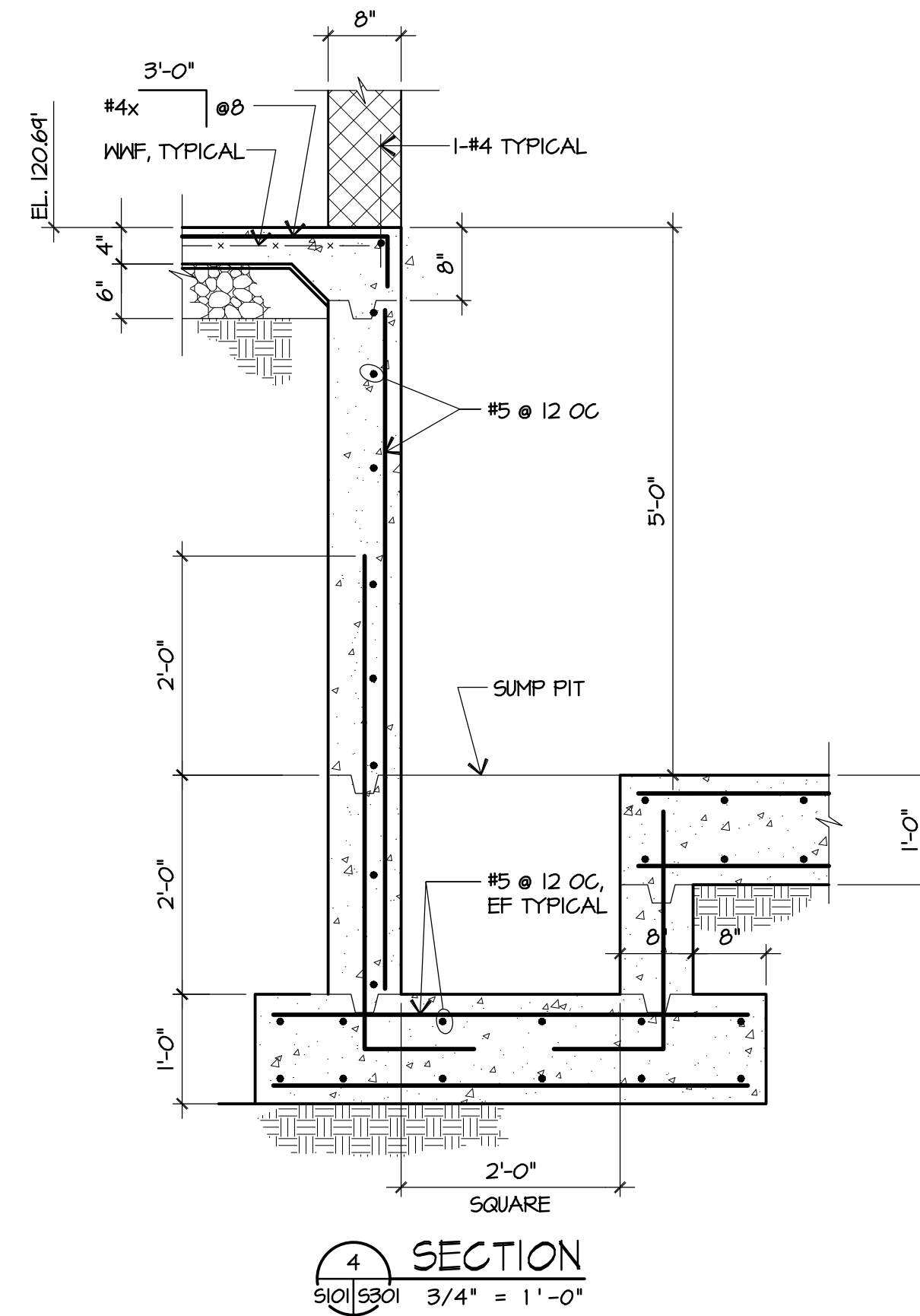
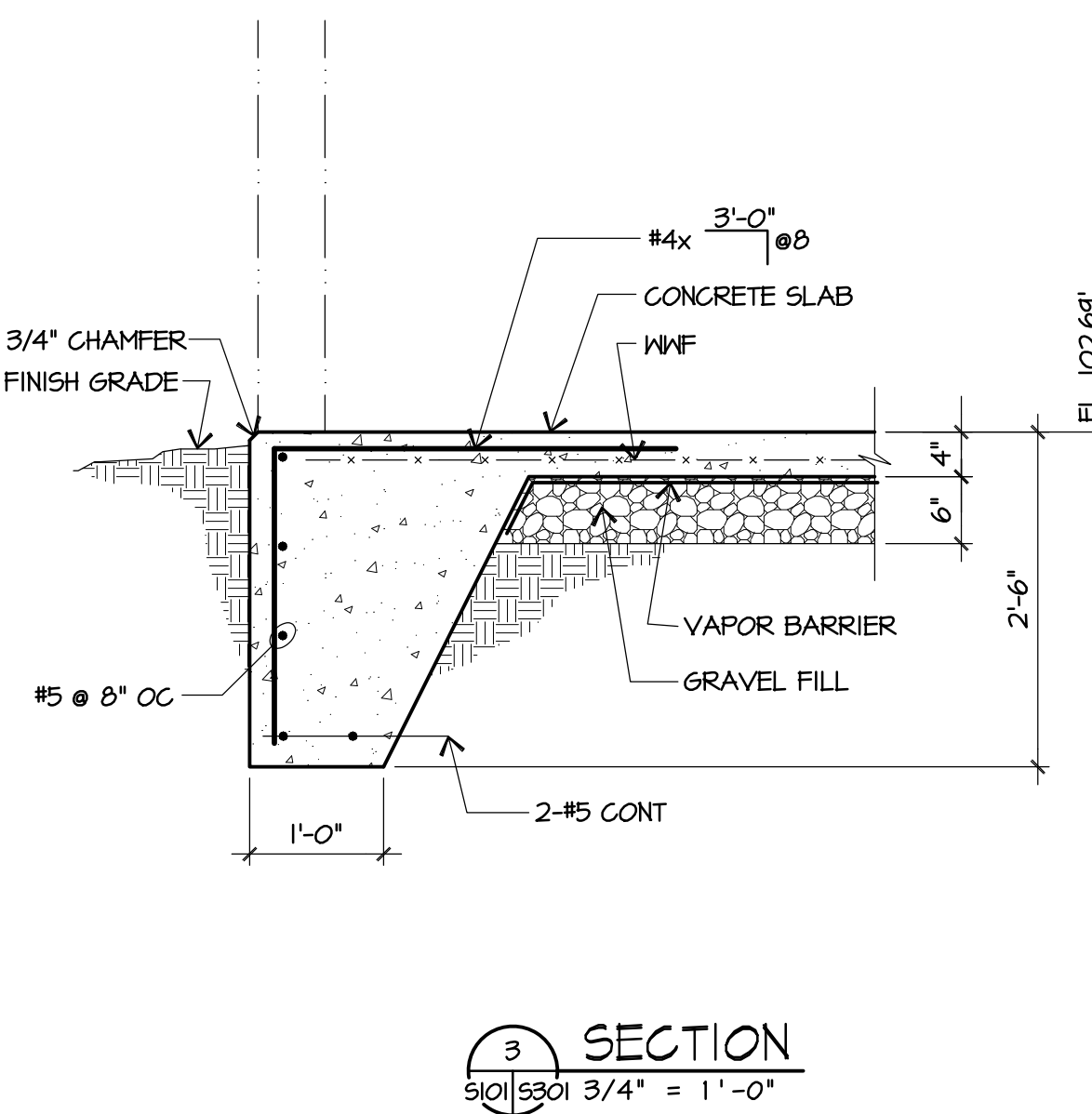
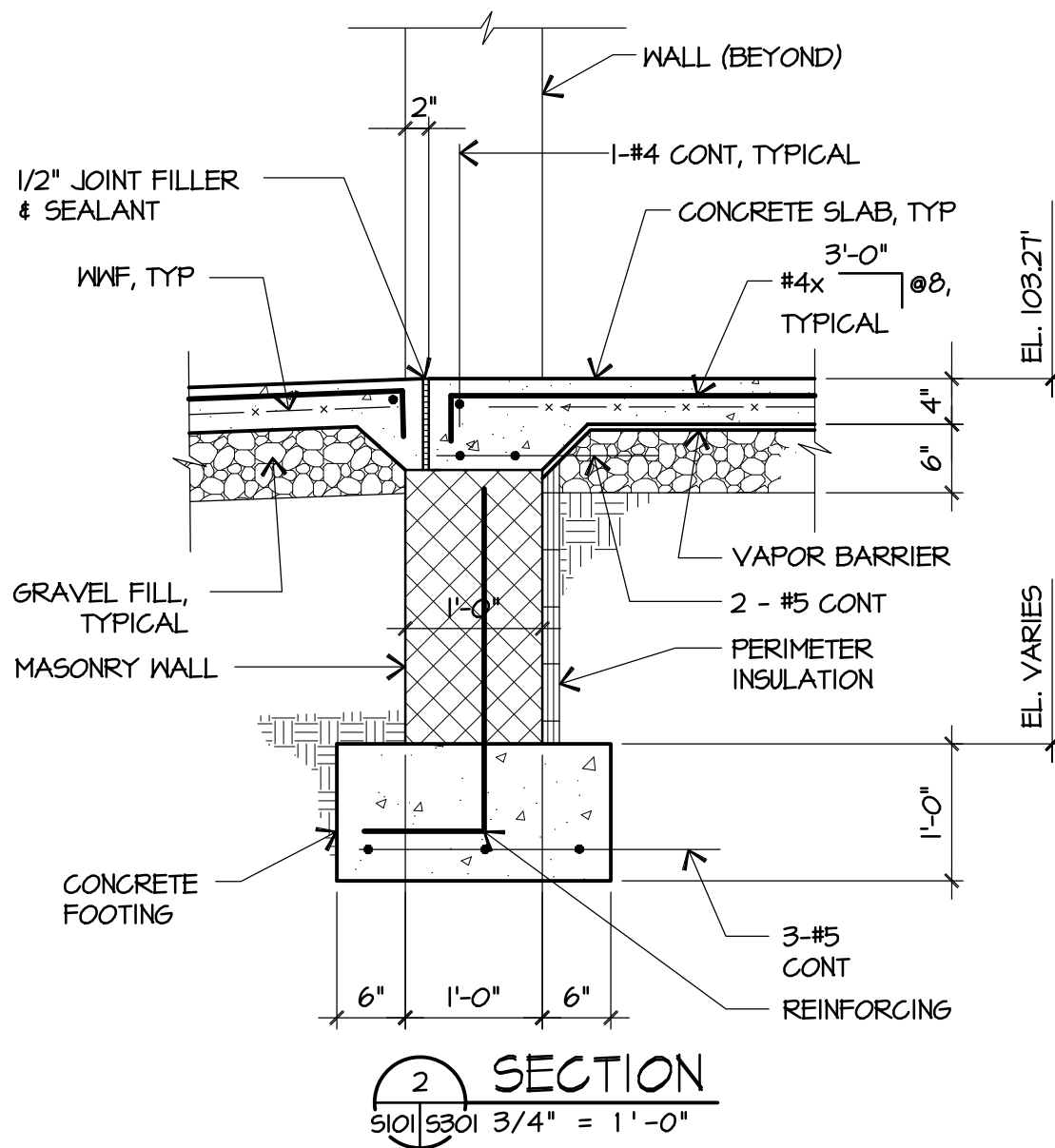
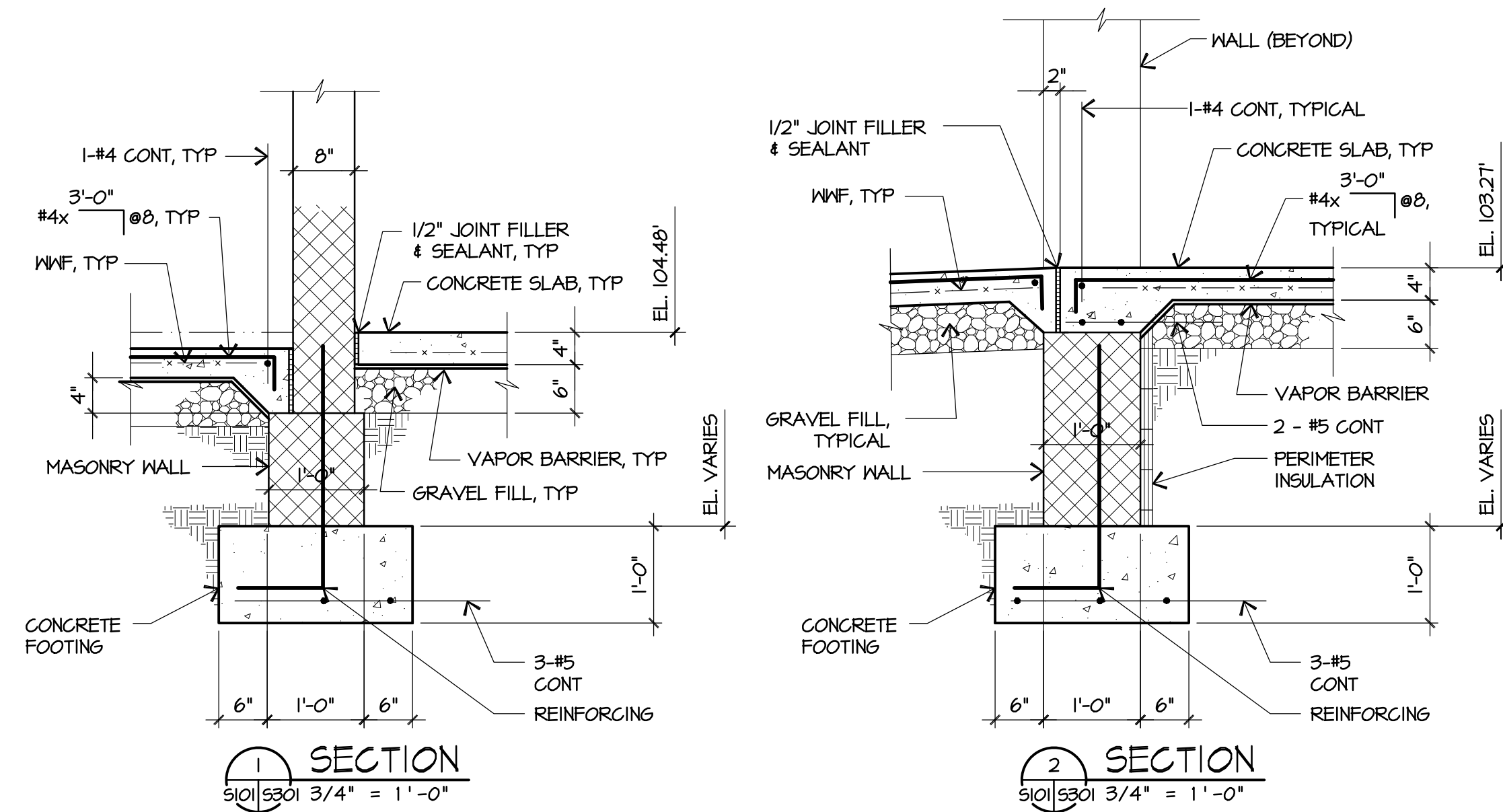


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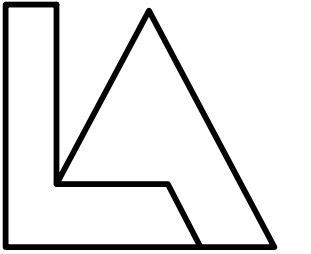


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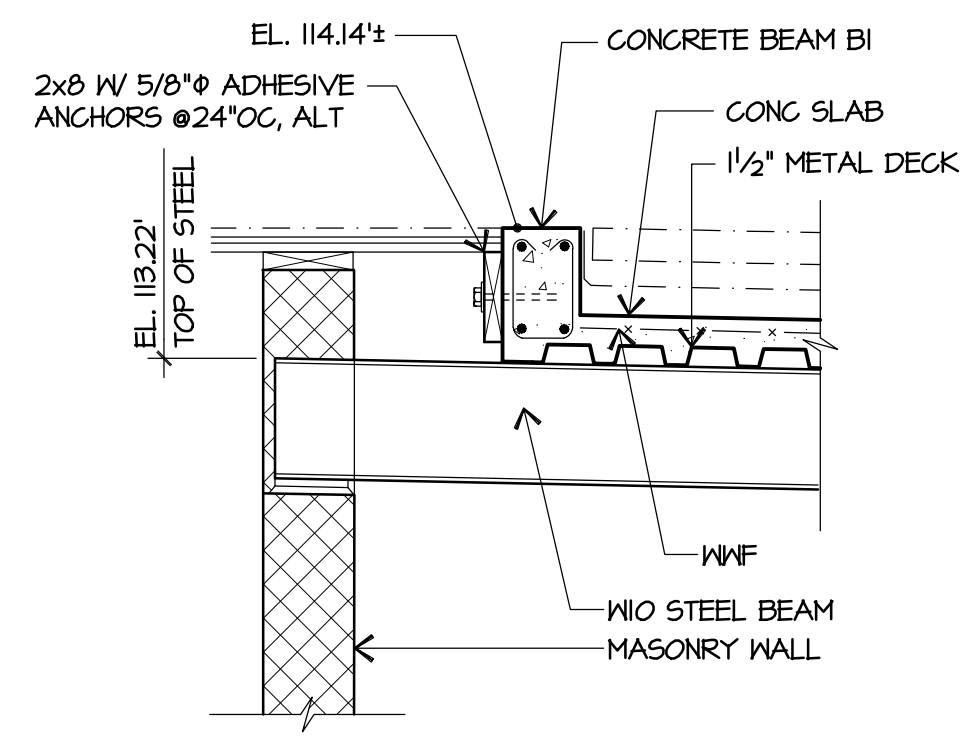
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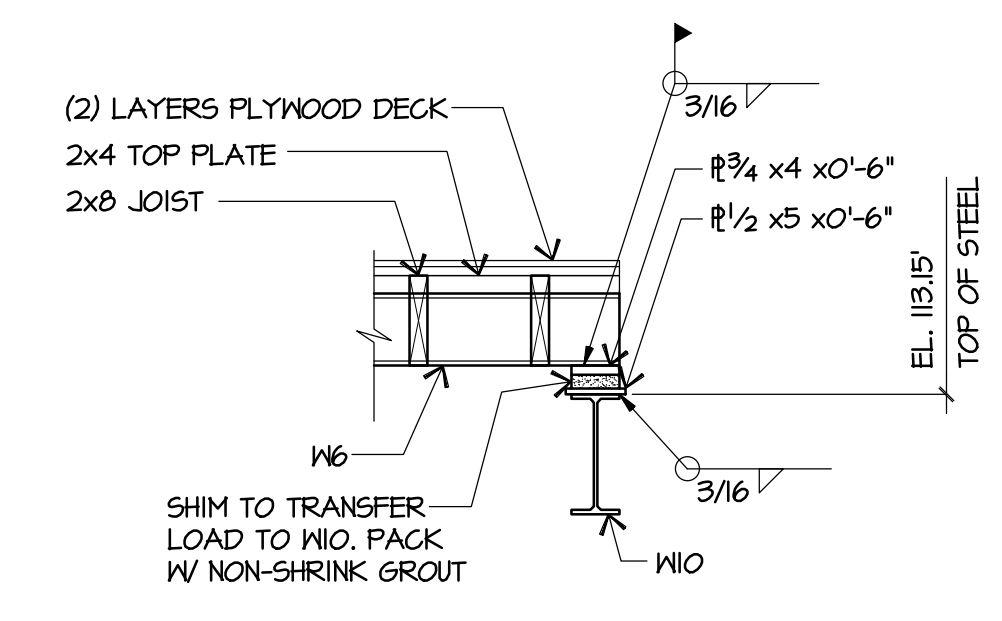
**STRUCTURAL
SECTIONS**

DRAWING NUMBER

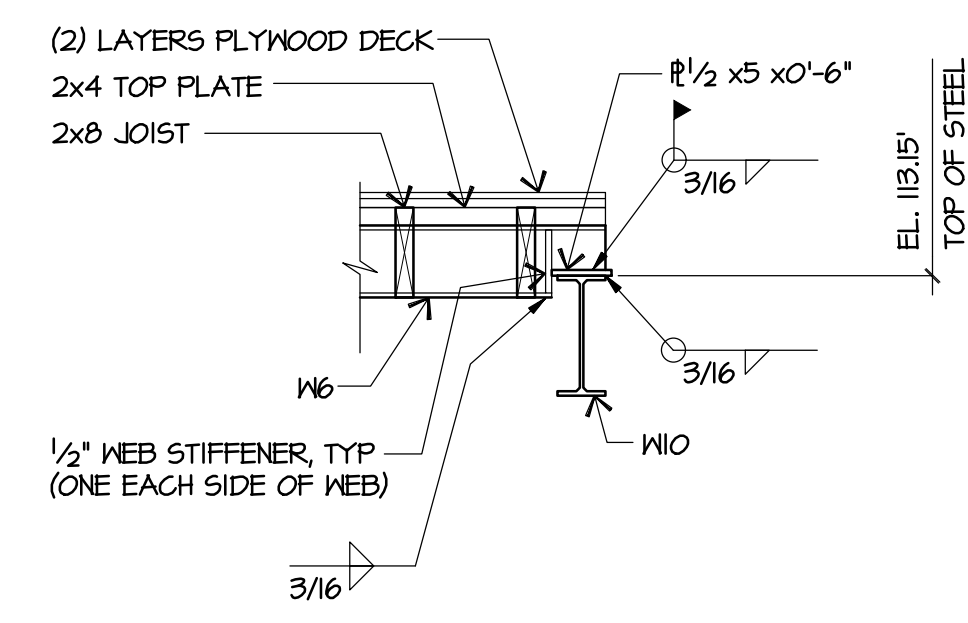
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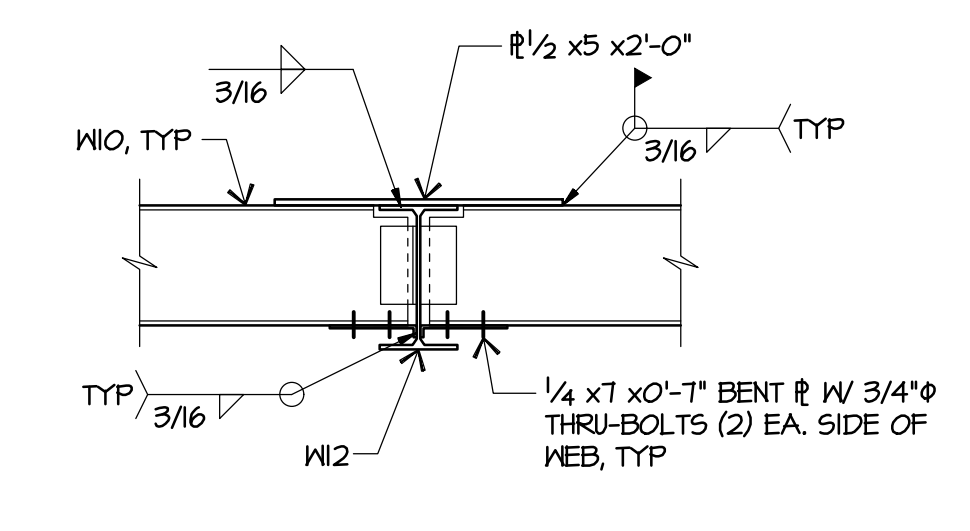
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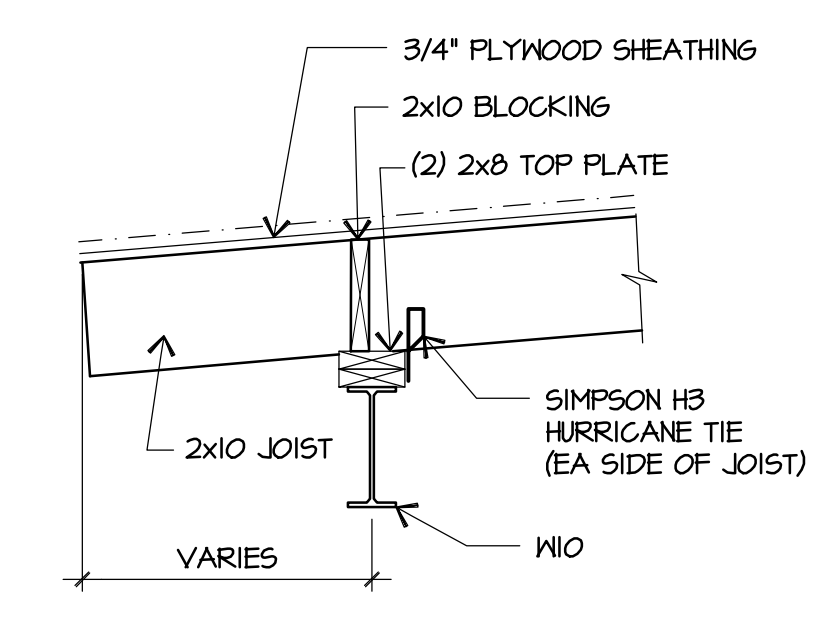
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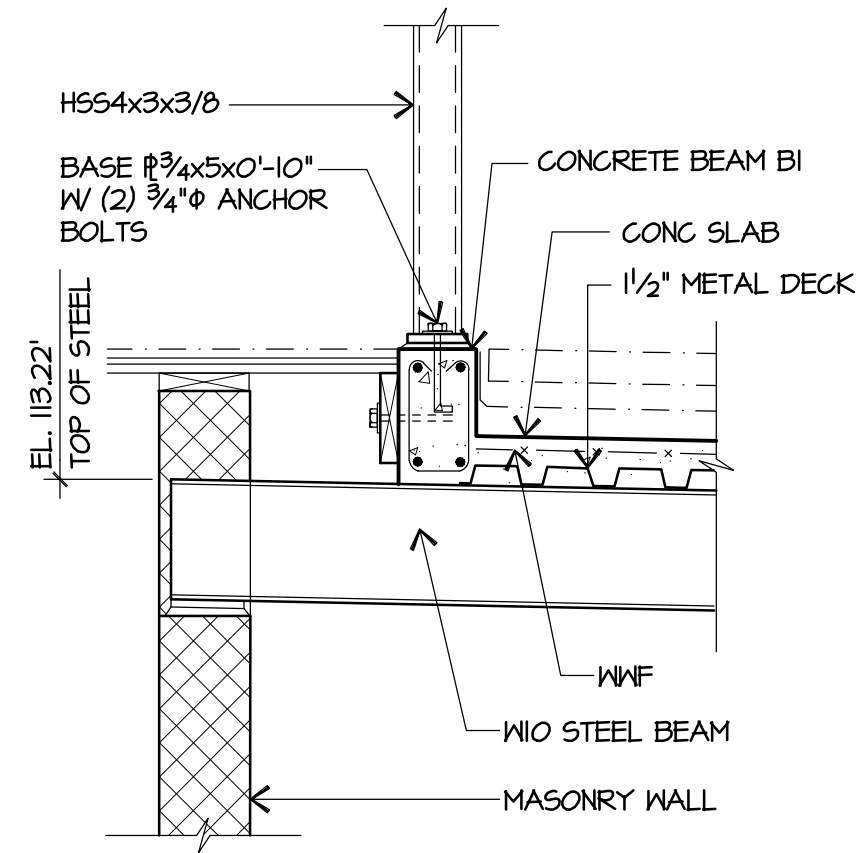
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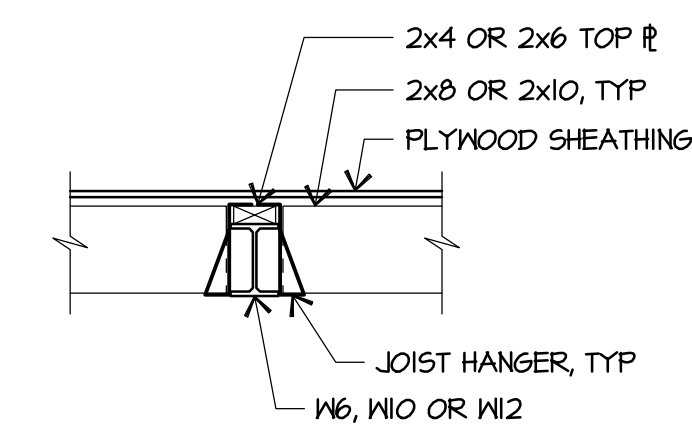
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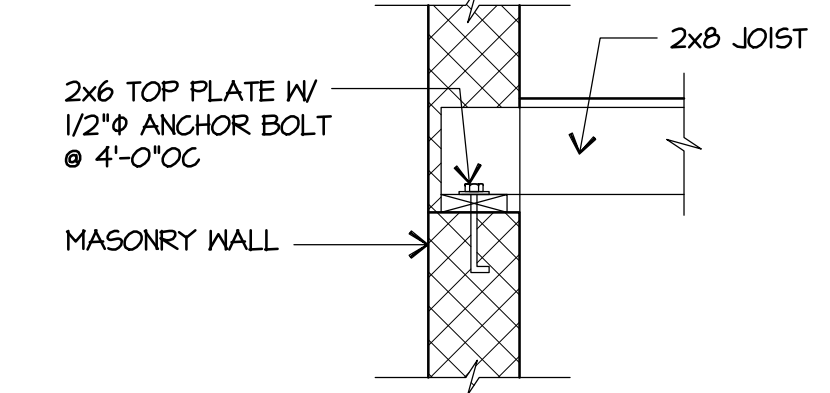
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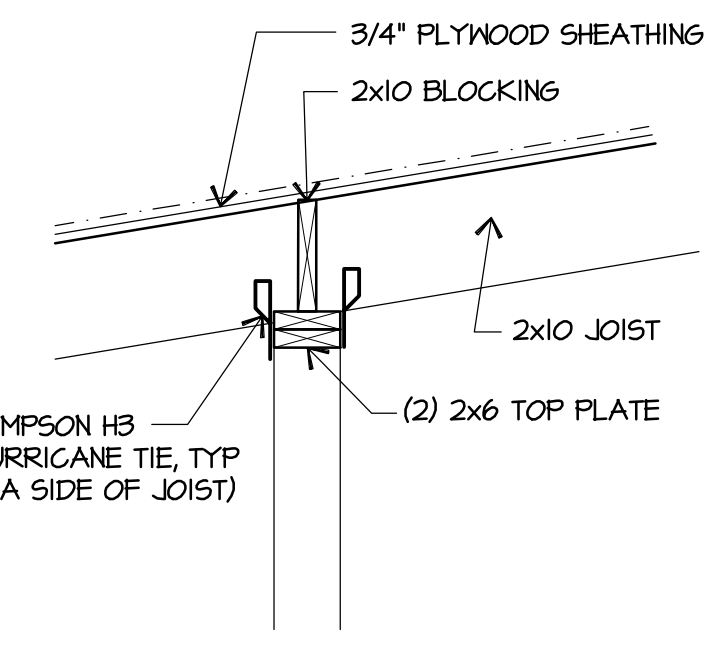
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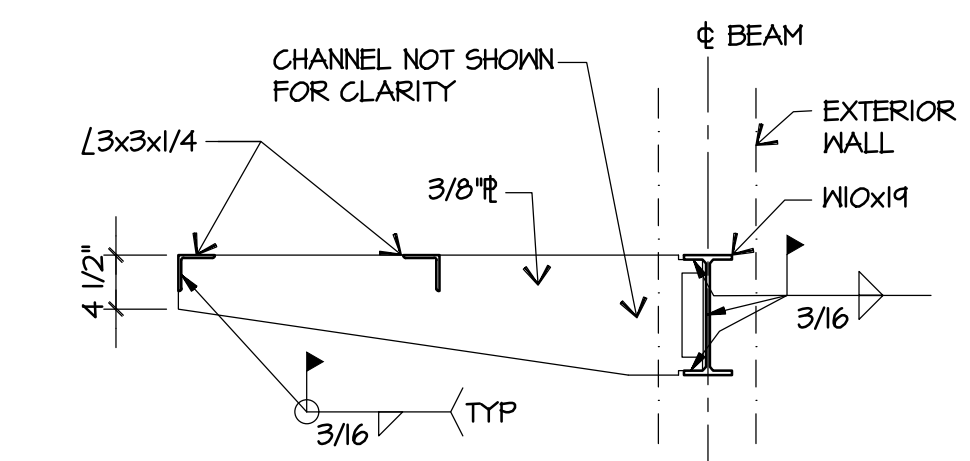
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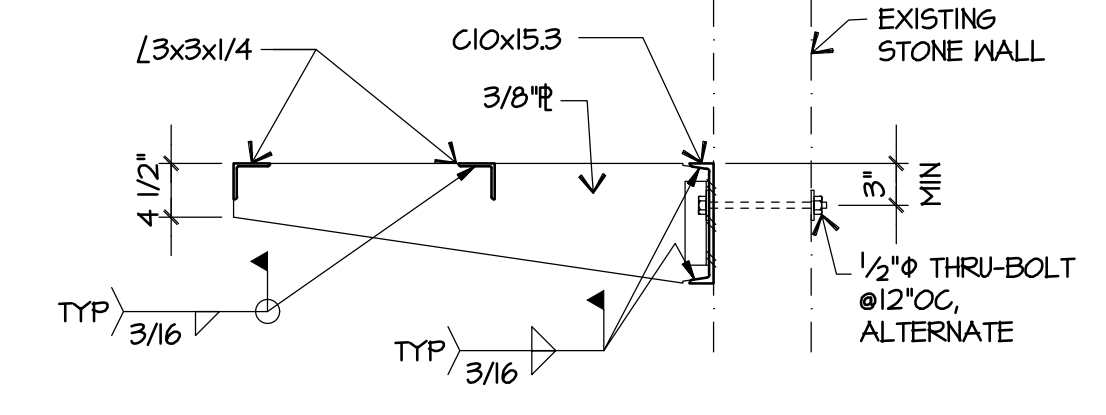
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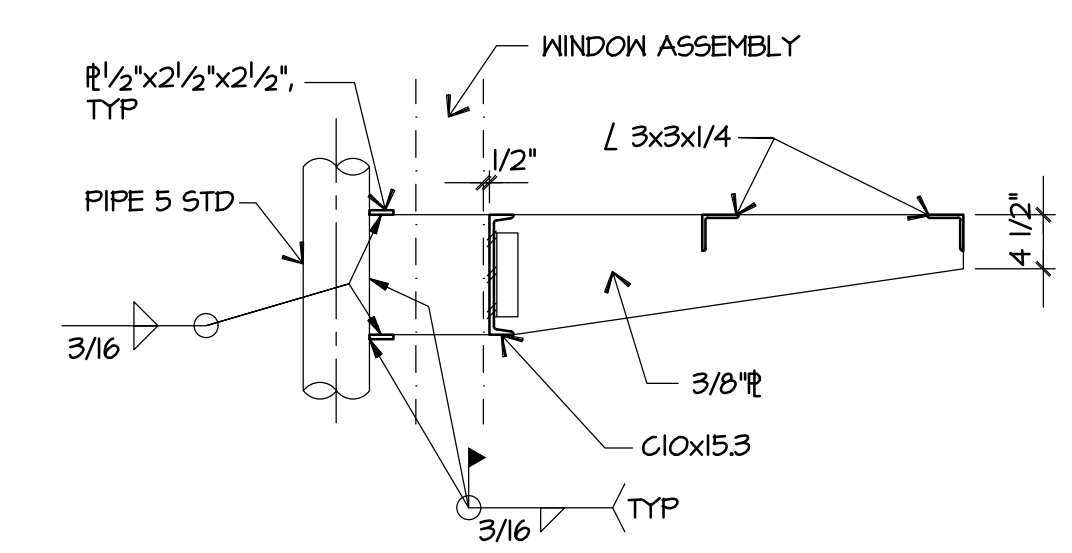
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10 SECTION
5102|5501 3/4" = 1'-0"



11 SECTION
5102|5501 3/4" = 1'-0"

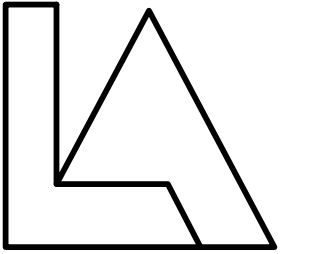


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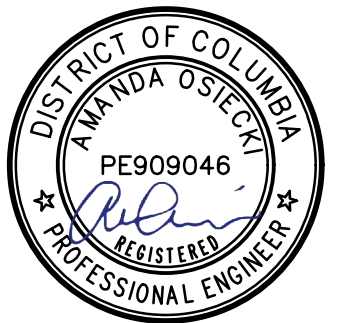
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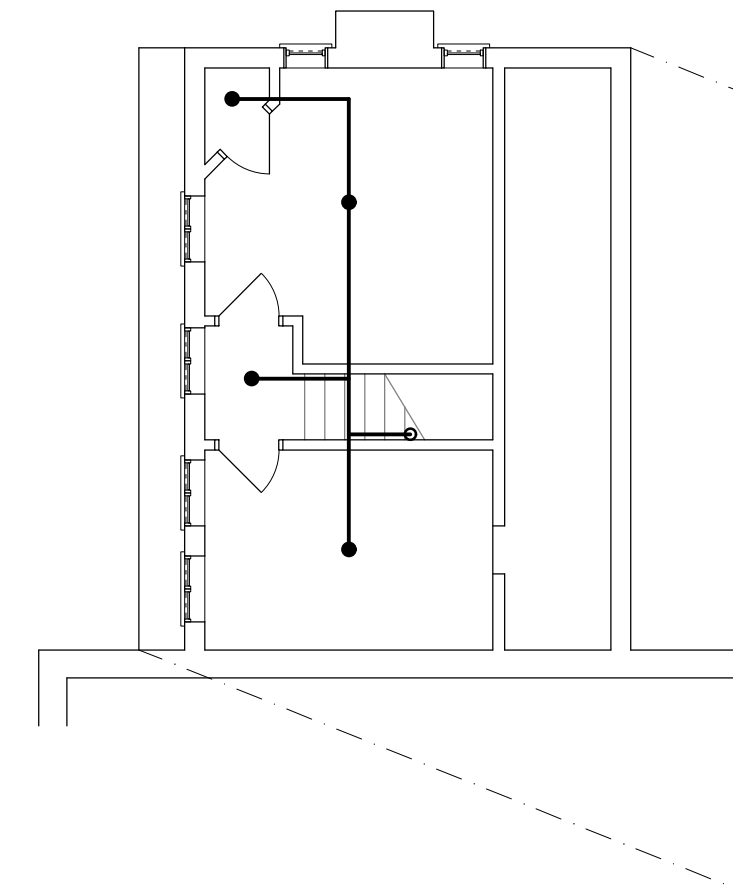
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DATE 12-1-2017 BID SET

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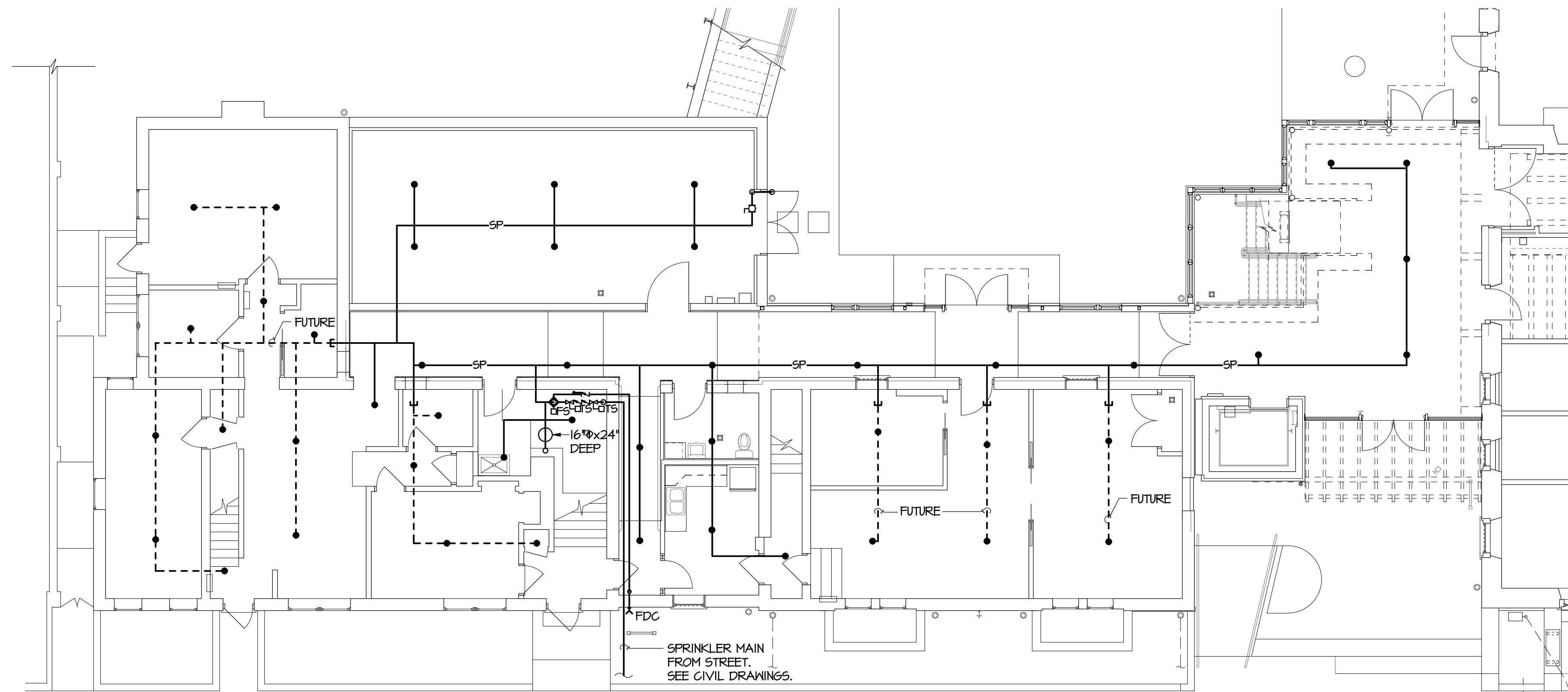
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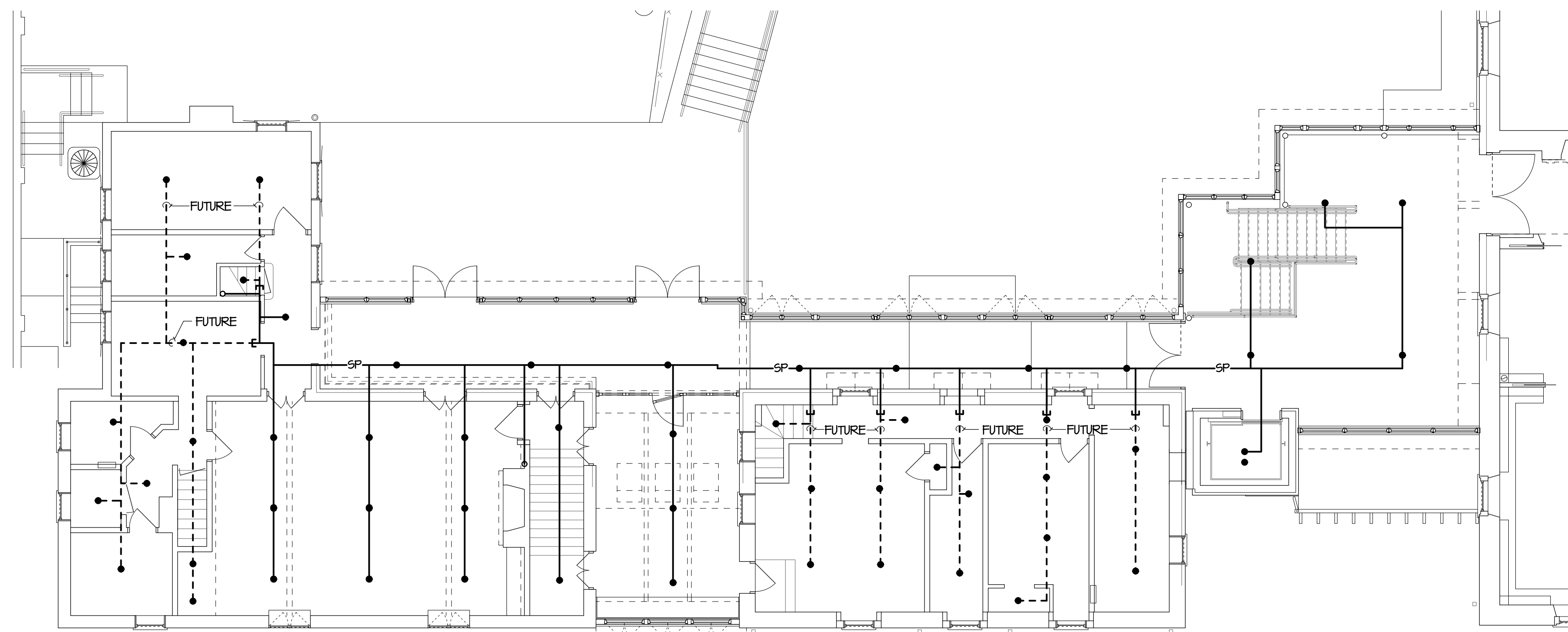
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ATTIC LEVEL FLOOR PLAN
1/8" = 1'-0"



GROUND LEVEL FLOOR PLAN
1/8" = 1'-0"

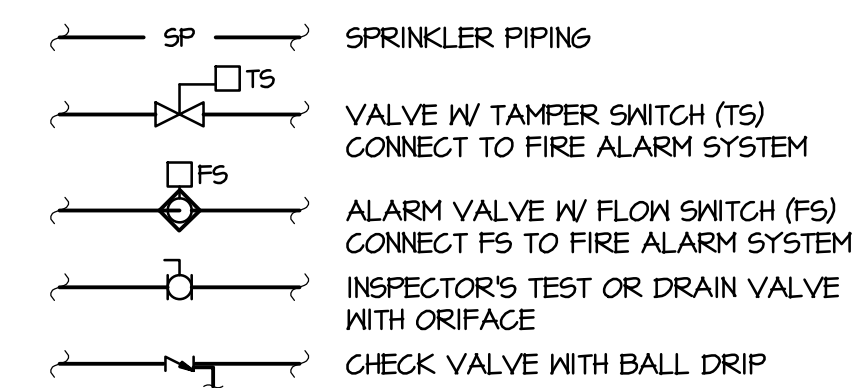


MEETING LEVEL FLOOR PLAN
1/8" = 1'-0"

FIRE PROT. GENERAL NOTES

- NOTES APPLY TO ALL FIRE PROTECTION DRAWINGS.
- OWNER MUST BE GIVEN 72 HOURS WRITTEN NOTICE BEFORE SHUTDOWN OF ANY UTILITY TAKES PLACE.
 - FULLY SPRINKLER ENTIRE WORK AREA WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13, 2013. ALL AREAS WITHIN THE WORK AREA SHALL BE CONSIDERED LIGHT HAZARD. NOTE THAT SOME AREAS ARE SHOWN AS FUTURE, BUT SHOULD BE DESIGNED AS PART OF THIS PROJECT. DRAWINGS ARE SCHEMATIC AND INTENDED ONLY TO CONVEY THE SCOPE OF THE SPRINKLER SYSTEM.
 - HYDRAULICALLY DESIGN SPRINKLER SYSTEM FOR LIGHT HAZARD. SUBMIT SPRINKLER SHOP DRAWINGS AND CALCULATIONS FOR REVIEW AND APPROVAL BY THE AUTHORITY HAVING JURISDICTION.
 - TEST THE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA STANDARDS.
 - FINAL ACCEPTANCE OF THE FIRE PROTECTION SYSTEM IS SUBJECT TO FIELD INSPECTION AND APPROVAL FROM THE AUTHORITY HAVING JURISDICTION.
 - COORDINATE SPRINKLER INSTALLATION WITH ALL TRADES. DO NOT RUN PIPING OR LOCATE SPRINKLERS UNTIL ALL WORK HAS BEEN FULLY COORDINATED WITH ALL TRADES.
 - COORDINATE EQUIPMENT THAT REQUIRES ELECTRICAL POWER WITH THE ELECTRICAL CONTRACTOR.
 - PROVIDE OFFSETS, RISES, DROPS, ELBONS, ETC. IN THE SPRINKLER SYSTEM TO COORDINATE WITH ALL TRADES.

FIRE PROTECTION SYMBOLS

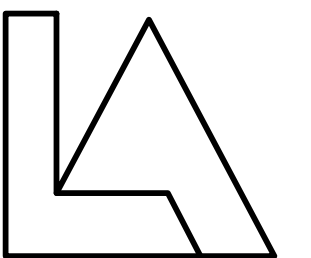


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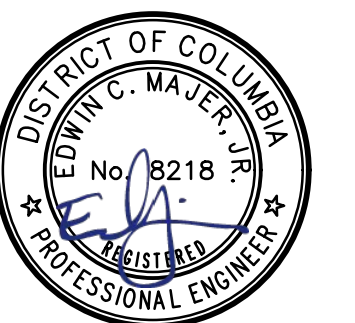
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CHECKED **RH**

DATE **12-1-2017** BID SET

DRAWING TITLE

**SPRINKLER
SPRINKLER PLANS**

DRAWING NUMBER

SP101

PLUMBING GENERAL NOTES

THESE NOTES APPLY TO ALL PLUMBING (P) DRAWINGS.

- ALL PLUMBING SERVICES AND EQUIPMENT SHALL BE FULLY COORDINATED WITH ALL TRADES PRIOR TO INSTALLATION.
- PROVIDE INDIVIDUAL SHUTOFF VALVES FOR ALL PLUMBING FIXTURES. SHUTOFF VALVES FOR EACH FIXTURE SHALL BE ACCESSIBLE FROM SPACE. REFER TO FIXTURE SCHEDULES FOR SERVICES REQUIRED.
- PROVIDE PIPING RUNOUTS TO ALL FIXTURES. MAKE FINAL CONNECTIONS OF ALL SERVICES REQUIRED AT EACH FIXTURE. PROVIDE COUPLERS, CONNECTORS, AND ADAPTERS NECESSARY FOR FINAL CONNECTION.
- ALL PIPING PENETRATIONS THROUGH FLOOR SLAB AND WALL SHALL BE SLEEVED. SLEEVES SHALL BE SIZED ACCORDING TO PIPE SIZE/INSULATED PIPE SIZE THRU SLAB AND WALL. SLEEVES THROUGH FLOORS SHALL EXTEND 1" ABOVE FINISHED FLOOR.
- MAINTAIN THE INTEGRITY OF BUILDING INSULATION MATERIALS WHERE PIPING PASSES THROUGH OR RUNS WITHIN INSULATED WALLS AND ADJACENT EXPOSED INSULATION.
- MAINTAIN THE INTEGRITY OF BUILDING FIRE RESISTANCE WHERE PIPING PASSES THROUGH OR RUNS WITHIN FIRE RATED WALLS, FLOORS AND OTHER STRUCTURAL MEMBERS.
- ALL HORIZONTAL VENT PIPING SHALL BE PITCHED FOR DRAINAGE.
- CONTRACTOR SHALL PROVIDE MISCELLANEOUS STEEL AS REQUIRED TO PROPERLY SUPPORT SUSPENDED PIPING AND EQUIPMENT. STEEL SHALL BE SUPPORTED FROM STRUCTURAL FRAMING MEMBERS.
- SEE SYSTEM DIAGRAMS AND DETAILS FOR ADDITIONAL VALVES AND ACCESSORIES.
- LOCATE AND SIZE PLUMBING EQUIPMENT CONCRETE PADS AND CURBS IN ACCORDANCE WITH ACTUAL EQUIPMENT PURCHASED.
- PROVIDE ACCESS DOORS WHERE REQUIRED FOR ACCESS TO ALL SHUTOFF VALVES, WALL CLEANOUTS, AND WATER HAMMER ARRESTORS.
- COORDINATE ALL ELECTRICAL REQUIREMENTS OF PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR.
- MAINTAIN CLEARANCE FROM ALL ELECTRICAL EQUIPMENT PER APPLICABLE CODES.
- ALL SANITARY AND STORM DRAINAGE PIPING BELOW FLOOR SHALL BE SLOPED AT 1/8" PER FOOT OF HORIZONTAL RUN.
- DRAWINGS WERE PREPARED USING LIMITED FIELD WORK. RECORD DRAWINGS WERE NOT AVAILABLE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND UTILITIES AND NOTIFY THE ARCHITECT/ENGINEER OF DEVIATIONS BEFORE PROCEEDING WITH WORK. VERIFY SANITARY LINE DEPTH TO ENSURE TOILET LOCATION IS FEASIBLE BEFORE PROCURING WATER CLOSET.
- PROVIDE THERMAL INSULATION ON ALL HOT AND COLD WATER PIPING WITH SELF-SEALING CLOSED CELL FOAM OR JACKETED FIBERGLASS INSULATION. FIRE HAZARD RATING FOR INSULATION, ADHESIVES, SEALERS, AND COATINGS SHALL NOT EXCEED 25 FOR FLAME SPREAD, 50 FOR FUEL CONTRIBUTED, AND 50 FOR SMOKE DEVELOPED. UNLESS OTHERWISE REQUIRED BY THE LOCAL AUTHORITY OR ENERGY CODES THE MINIMUM INSULATION LEVELS SHALL BE AS FOLLOWS:

PIPE SIZE	INSULATION THICKNESS
1" DIA. OR LESS	1"
1" - 2" DIA.	1 1/2"
- SEE ADDITIONAL SPECIFICATIONS ON SHEET P301.

PLUMBING ABBREVIATIONS

●	AT	L	LAVATORY
A	COMPRESSED AIR	L6	LUBE GREASE
A.S.	AS SHOWN	MB	MOP BASIN
ABV	ABOVE	MBH	1,000 BTU'S PER HOUR
AD	AREA DRAIN	MECH	MECHANICAL
AF	ANTI FREEZE	MH	MANHOLE
AF6	ABOVE FINISHED FLOOR	MIN	MINIMUM, MINUTE
AO	AIR OUTLET	MO	MOTOR OIL
ARCH	ARCHITECT	NA	NALCOOL
AST	ABOVEGROUND STORAGE TANK	N.C.	NORMALLY CLOSED
ATF	AUTO TRANS FLUID	N.O.	NORMALLY OPEN
BFP	BACKFLOW PREVENTER	NIC	NOT IN CONTRACT
BLD6	BUILDING	N#,#	NUMBER
BLM	BELOW	OC	ON CENTERS
BTU	BRITISH THERMAL UNIT	OS4Y	OUTSIDE SCREEN AND YOKE
BV	BALANCING VALVE	OSP	OPEN SITE DRAIN
BWV	BACK WATER VALVE	ONS	OIL/WATER SEPARATOR
B/T	BETWEEN	PD	PERFORATED DRAINAGE PIPING
CFH	CUBIC FEET PER HOUR	PLB6	PLUMBING
CFM	CUBIC FEET PER MINUTE	PRV	PRESSURE REDUCING VALVE
CI	CAST IRON	RD	ROOF DRAIN
CL	CAST IRON	REC	RECOVERY
GL	CEILING	REQ'D	REQUIRED
GL6	CLEANOUT	RL	RAIN LEADER
CO	CONCRETE	RPM	REVOLUTIONS PER MINUTE
COND	CONDENSATE	RPP	REDUCED PRESSURE
CONN	CONNECT, CONNECTION	RTRP	REINFORCED THERMOSETTING RESIN PIPE
COP	CLEANOUT PLUG	RN	RECYCLED WATER
CN	COLD WATER	SA	SHOCK ABSORBER
DET	DETAIL	SAN	SANITARY
DF	DRINKING FOUNTAIN	SE, #	SQUARE FEET
DFU	DRAINAGE FIXTURE UNITS	SH	SHOWER
DIA.	DIAMETER	SK	SINK
D/I	DEIONIZED WATER	STM	STRUCTURAL
DN	DOWN	STRU	STORM WATER
DN6	DRAINING	SN	STORM WATER
EA	EACH	TD	TRENCH DRAIN
EGG	EMERGENCY GAS SHUTOFF VALVE	TEMP	TEMPERATURE
ELEV.	ELEVATION	THK	THICK
ENG	ELECTRIC WATER COOLER	THRU	THROUGH
ELEC	ELECTRICAL	TRP	TRAP PRIMER
EQUIP	EQUIPMENT	TOT	TOTAL
FD	FLOOR DRAIN, FOUNDATION DRAIN	TYP	TYPICAL
FIN	FINISHED	U	URINAL
FLR	FLOOR	UFAS	UNIFORM FEDERAL ACCESSIBILITY STANDARDS UNDERGROUND STORAGE TANK
FS	FLOOR SINK	UST	UNDERGROUND STORAGE TANK
FT6	FITTING	V	VENT
FU	FIXTURE UNITS (SUPPLY)	VIV	VALVE IN VERTICAL
6	NATURAL GAS	VP	VENT PIPE
60	GEAR OIL	VTR	VENT THRU ROOF
601	GEAR OIL (80 WEIGHT)	W	WATER CLOSET
602	GEAR OIL (90 OR 120 WEIGHT)	W/O	WITHOUT
6PM	GALLONS PER MINUTE	WH	WALL HYDRANT
HB	HOSE BIBB	WO	WASTE OIL
HC	HANDICAPPED	WT	WEIGHT
HF	HYDRAULIC FLUID	NTR	WATER
HP6	LIQUEFIED PETROLEUM GAS (PROPANE) HIGH PRESSURE HEATER		
HTR	HOT WATER RECIRCULATING		
HW	HOT WATER		
HWR	HOT WATER RECIRCULATING		
IE	INVERT ELEVATION		
INSUL	INSULATION		
INV	INVERT		

FILE NAME:

PLUMBING FIXTURE CONNECTION SCHEDULE

DESIG.	DESCRIPTION	WATER		WASTE		STORM DRAIN	REMARKS
		HOT	COLD	SAN	VENT		
(WC)	WATER CLOSET (HANDICAPPED)	-	1/2"	4"	2"	-	NOTE 1 & 2.
(L1)	LAVATORY (HANDICAPPED)	1/2"	1/2"	1-1/2"	1-1/2"	-	WALL HUNG LAVATORY, NOTE 1 & 3.
(KS)	KITCHEN SINK	1/2"	1/2"	2"	1-1/2"	-	NOTE 3.
(FD)	FLOOR DRAIN	-	-	2"	1-1/2"	-	WITH TRAP PRIMER OUTLET
(FD2)	FLOOR DRAIN W/ BALL FLOAT VALVE	-	-	2"	-	-	PROVIDE WITH FUNNEL RECEIVER TO ACCEPT CONDENSATE DRAINING OR EXTENDED RIM
(DS)	DOWNSPOUT BOOT	-	-	-	-	4"	
(WH)	WALL HYDRANT (NON-FREEZE) - EXTERIOR	-	3/4"	-	-	-	
(OSD)	OPEN SITE DRAIN	-	-	2"	1-1/2"	-	PLACE AT 10" AFF
(MB)	MOP SINK BASIN	1/2"	1/2"	2"	1-1/2"	-	

NOTES:

- HANDICAP ACCESSIBLE FIXTURES SHALL BE LOCATED IN ACCORDANCE WITH ARCHITECTURAL PLANS.
- FLUSH HANDLE SHALL BE LOCATED ON ACCESSIBLE (MIDE) SIDE OF STALL.
- ADJUST TEMPERING VALVE TO A MAXIMUM HOT WATER SETTING OF 104°F.

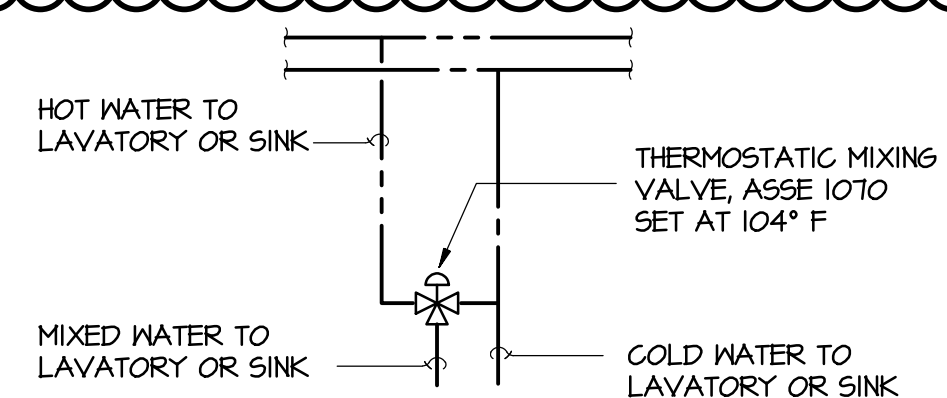
PUMP SCHEDULE

MARK	SERVES	TYPE	CHARACTERISTICS			REMARKS
			FLOW	HEAD	HP	
SP-1	ELEVATOR	SUMP PUMP	50 GPM	15'	1/2	PUMP DISCHARGES OVER FLOOR DRAIN WITH FUNNEL RECEIVER

ELECTRIC DOMESTIC HOT WATER HEATER SCHEDULE

DESIG	CAPACITY GALLONS	RECOVERY		KW	PROTOTYPE	REMARKS
		GPH	ENTER LEAVES			
ENH-1	50	64	40°F 120°F	3.0	AO SMITH DEN-52	ELECTRIC

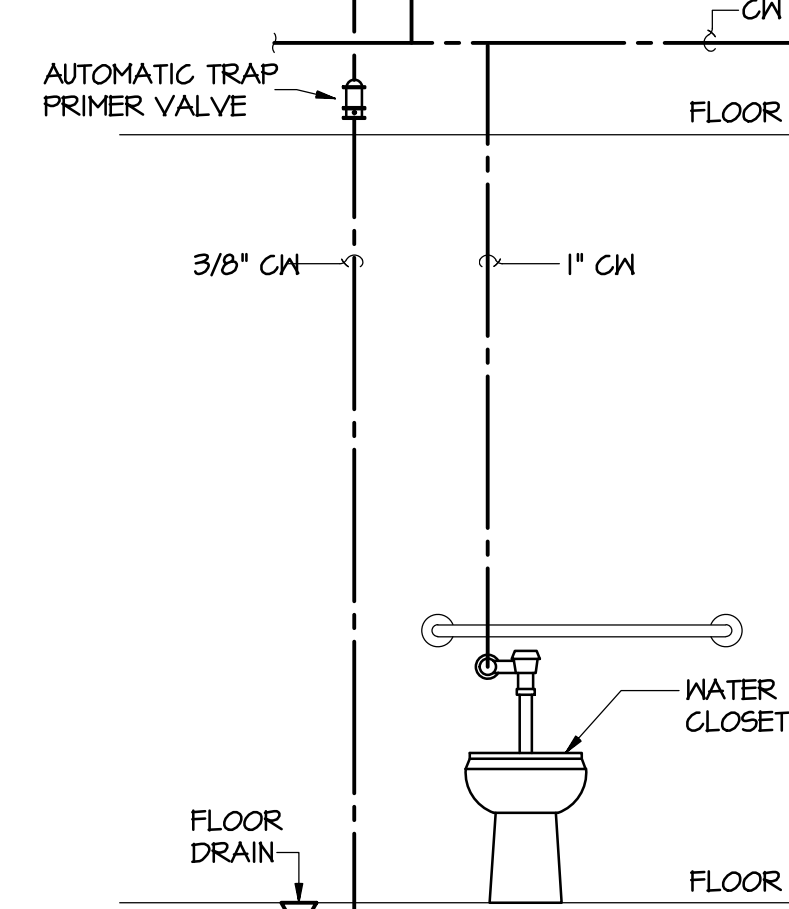
- NOTES: 1. COORDINATE ELECTRICAL REQUIREMENTS BEFORE ORDERING.
2. PROVIDE WITH A 5 GALLON EXPANSION TANK, AMTROL OR APPROVED EQUAL.



TYPICAL FOR ALL LAVATORIES, LAUNDRY TUB, AND SINKS

THERMOSTATIC MIXING VALVE

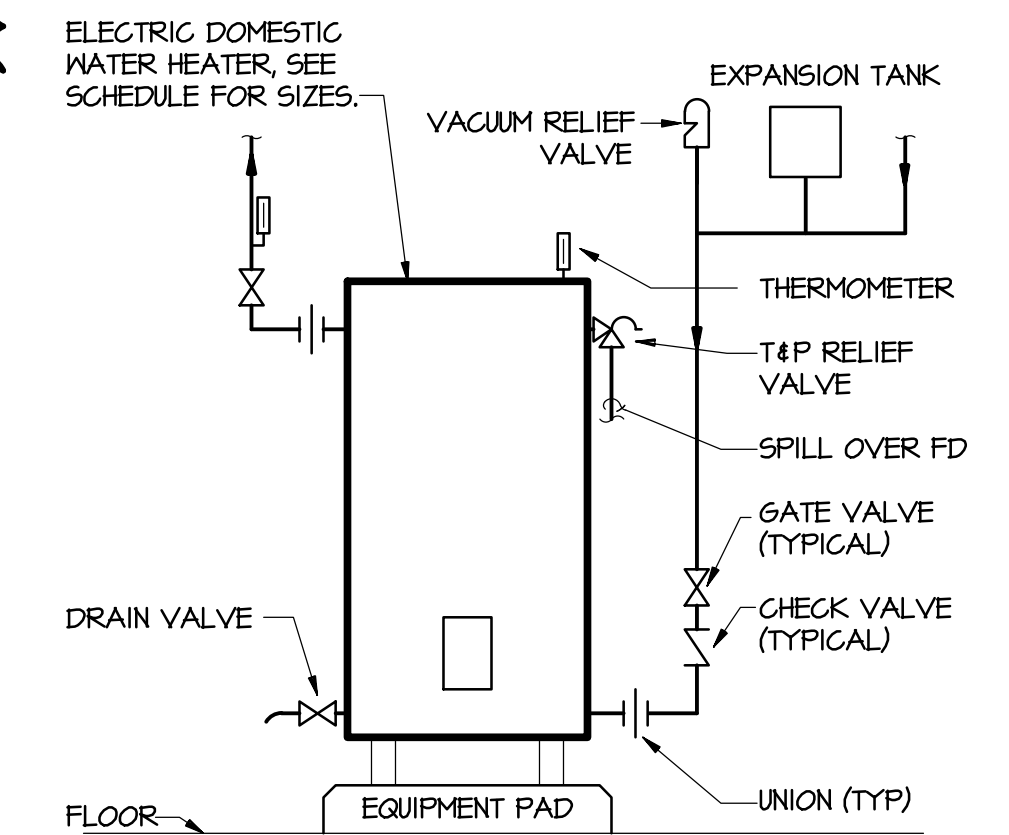
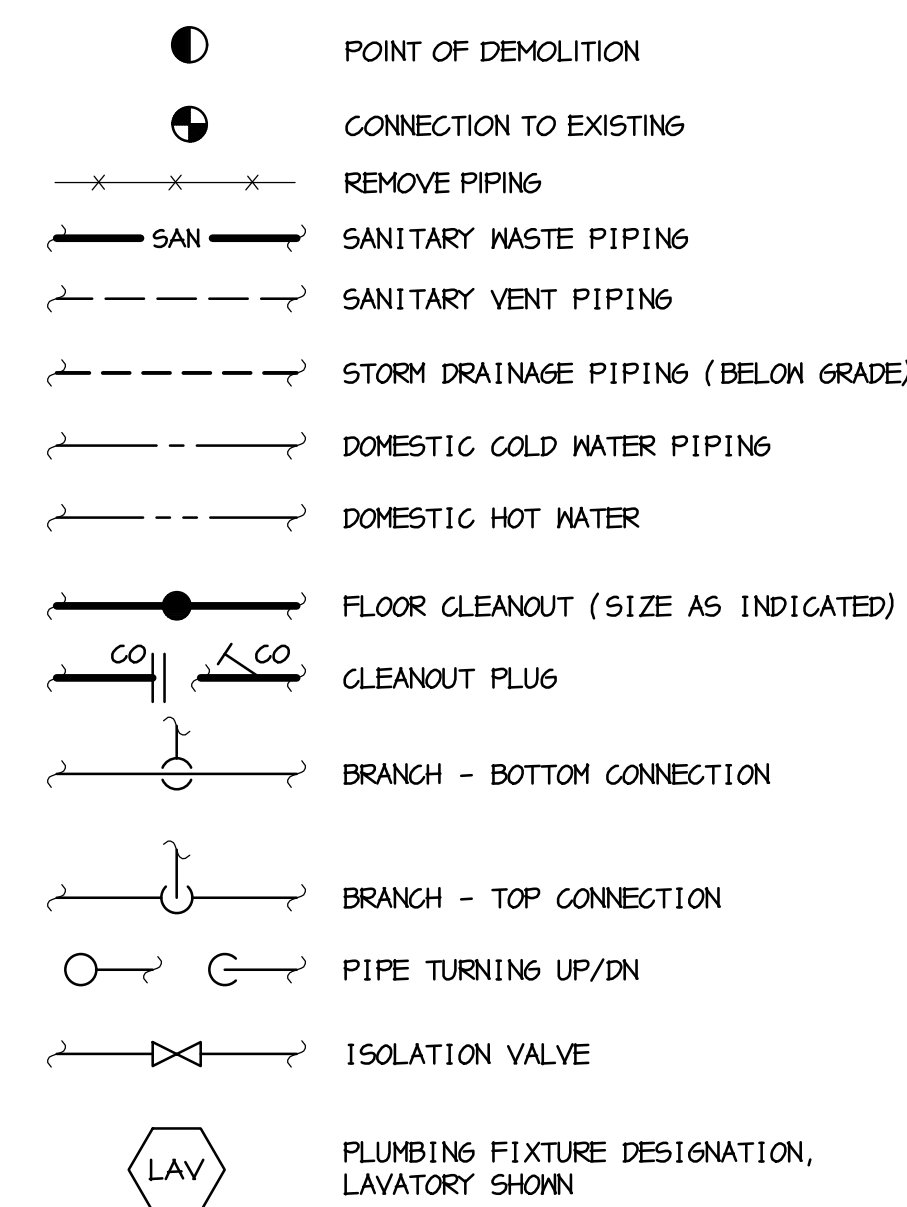
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TRAP PRIMER DETAIL

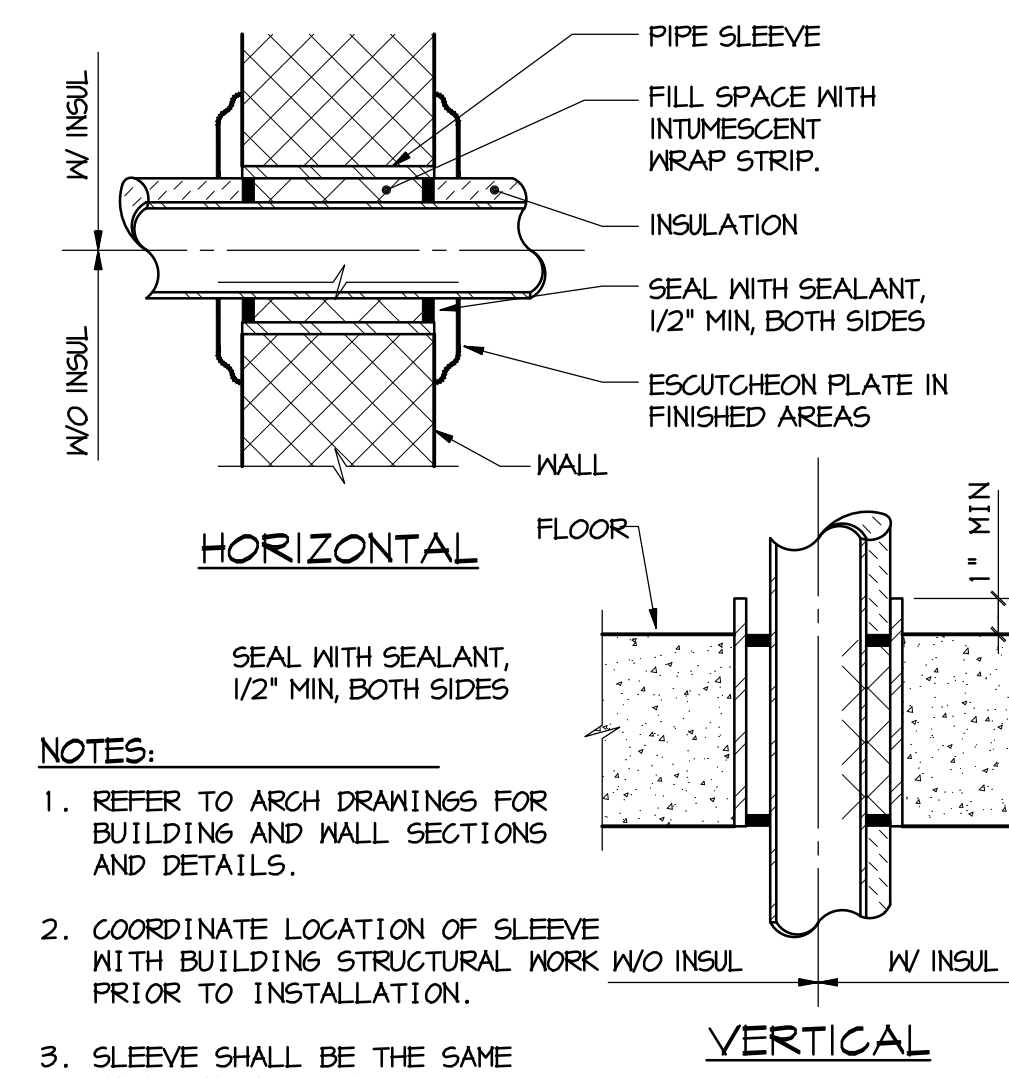
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PLUMBING LEGEND



ELECTRIC WATER HEATER DETAIL

NOT TO SCALE FILE NAME: PDI1A



NOTES:

- REFER TO ARCH DRAWINGS FOR BUILDING AND WALL SECTIONS AND DETAILS.
- COORDINATE LOCATION OF SLEEVE WITH BUILDING STRUCTURAL WORK W/O INSUL PRIOR TO INSTALLATION.
- SLEEVE SHALL BE THE SAME MATERIAL AS PIPE.

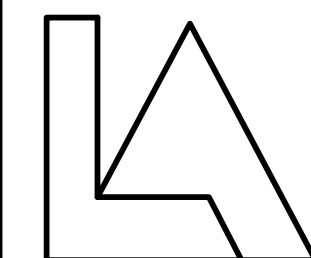
INTERIOR PIPE SLEEVE DETAIL

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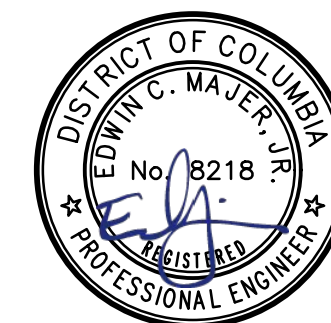
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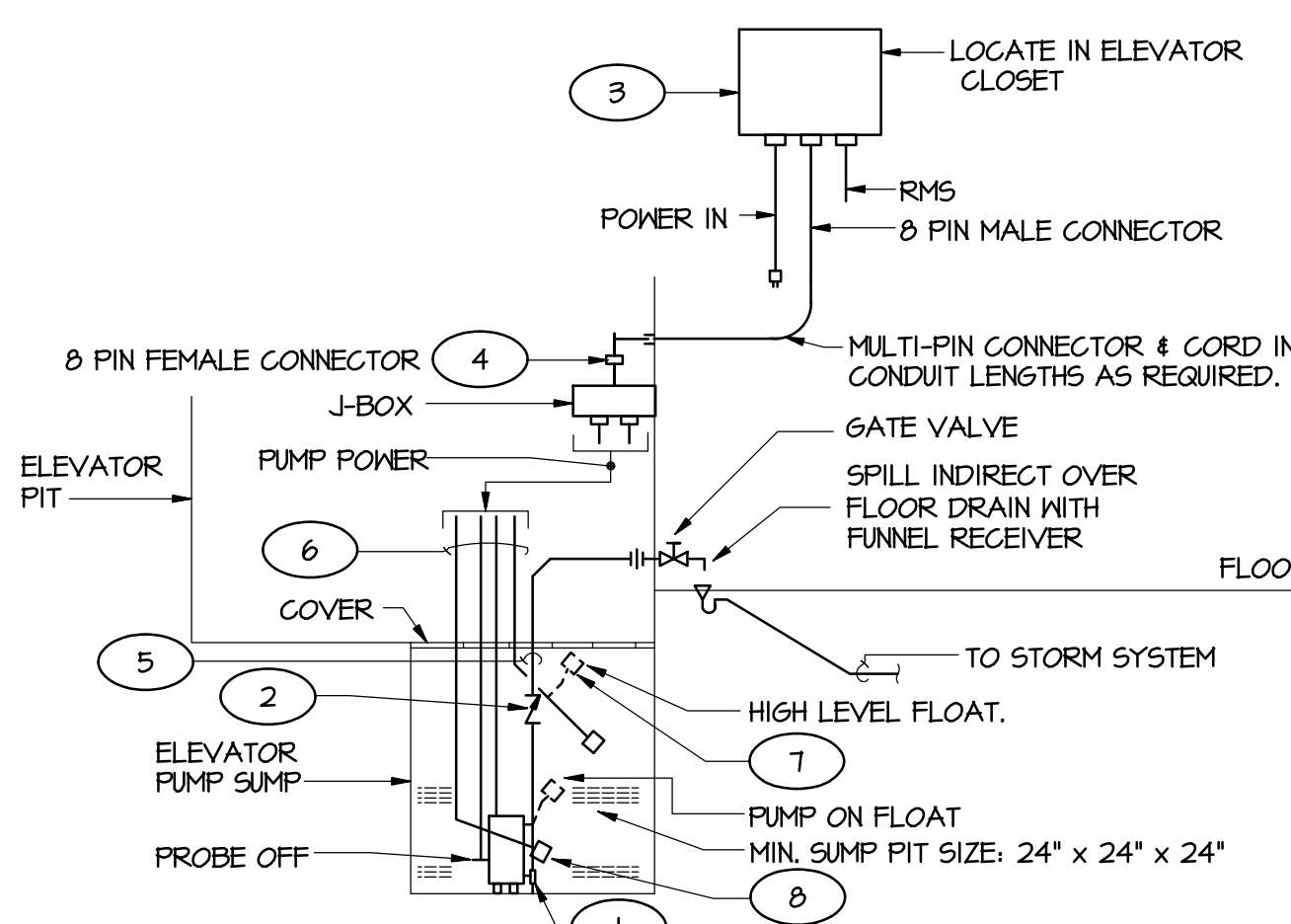
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DRAWING NUMBER

POO1

ELEVATOR SUMP PUMP OIL-MINDER SYSTEM

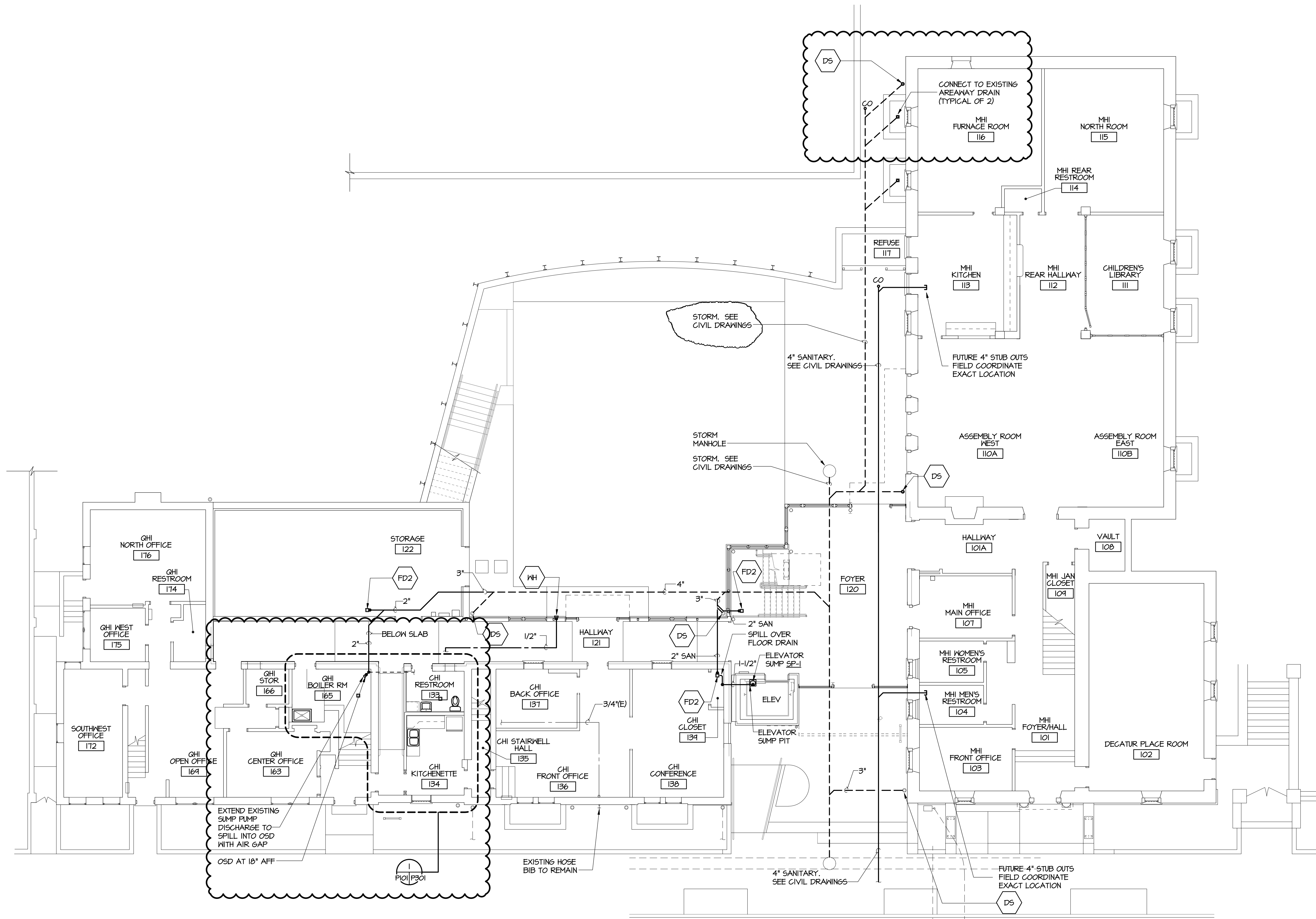
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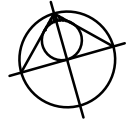
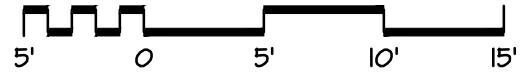


KEY NOTES FOR ELEVATOR SUMP PUMP OIL-MINDER SYSTEM

- STANCOR MODEL SE-50 SUBMERSIBLE EFFLUENT PUMP 1/2 HP, 115 VOLT, 3600 RPM, 2" DISCHARGE CONNECTION.
- STANCOR CHECK VALVE.
- STANCOR OIL-MINDER 115V, 1 PHASE CONTROL SYSTEM WITH BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR AND CORD IN LENGTHS AS REQUIRED. LIGHTS FOR OIL SPILL, POWER, HIGH LIQUID LEVEL, OVERLOAD, & PUMP RUN.
- JUNCTION BOX SHALL BE PROVIDED WITH MULTI-PIN CONNECTOR AND CORD IN LENGTHS AS REQUIRED.
- ALL BURIED PUMP PRESSURE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPECOAT CT CORROSION PROTECTION TAPE.
- OIL-MINDER CABLE, POWER CABLE, PROBE CABLE, HIGH LIQUID ALARM CABLE, AND PUMP ON FLOAT CABLE.
- HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING.
- PUMP ON FLOAT.

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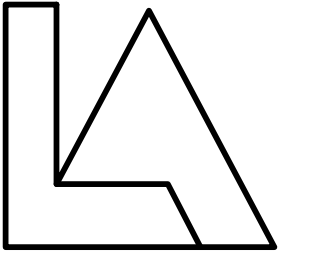



GROUND LEVEL FLOOR PLAN
 1/8" = 1'-0"




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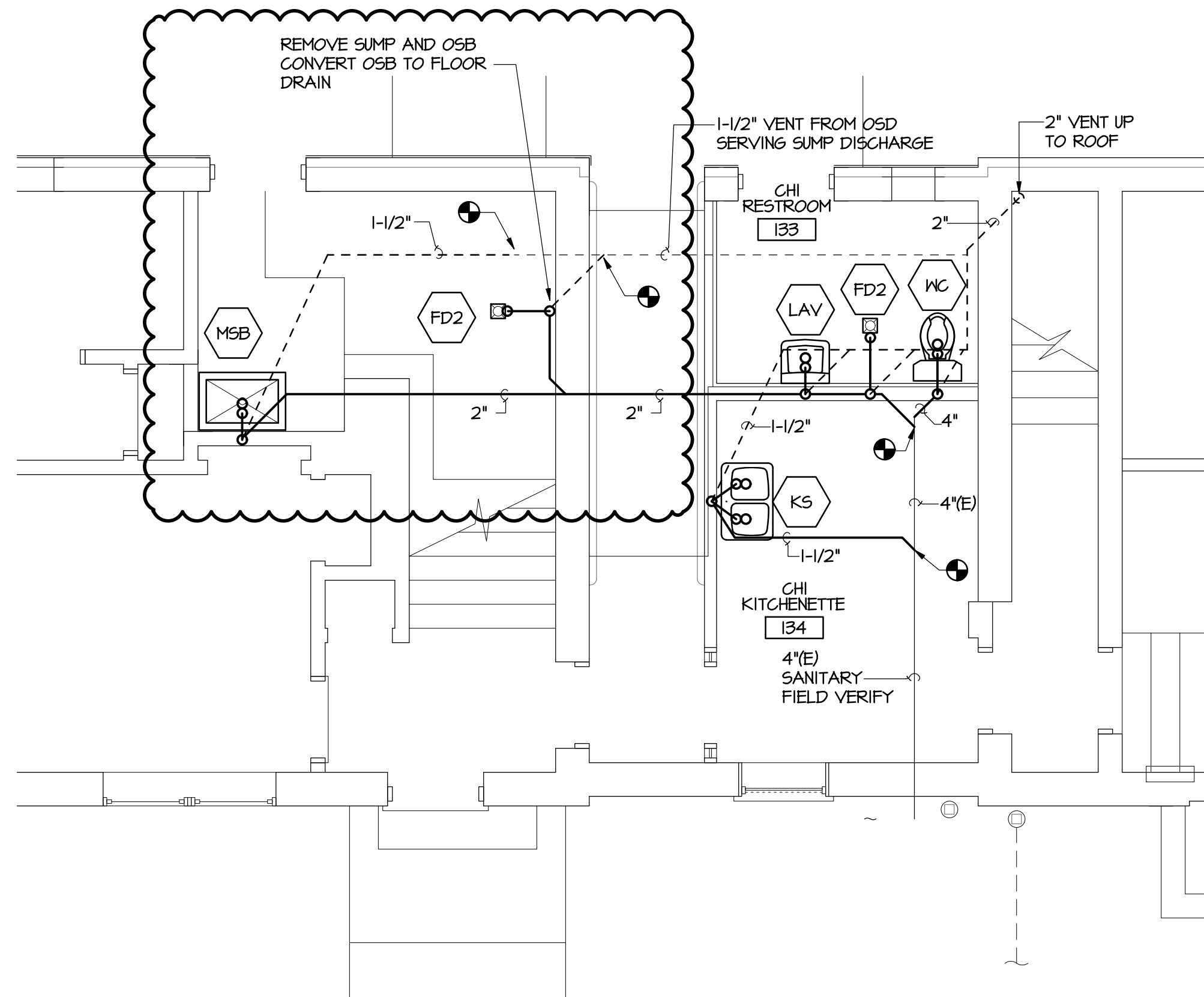
PLUMBING

GROUND LEVEL
 FLOOR PLAN

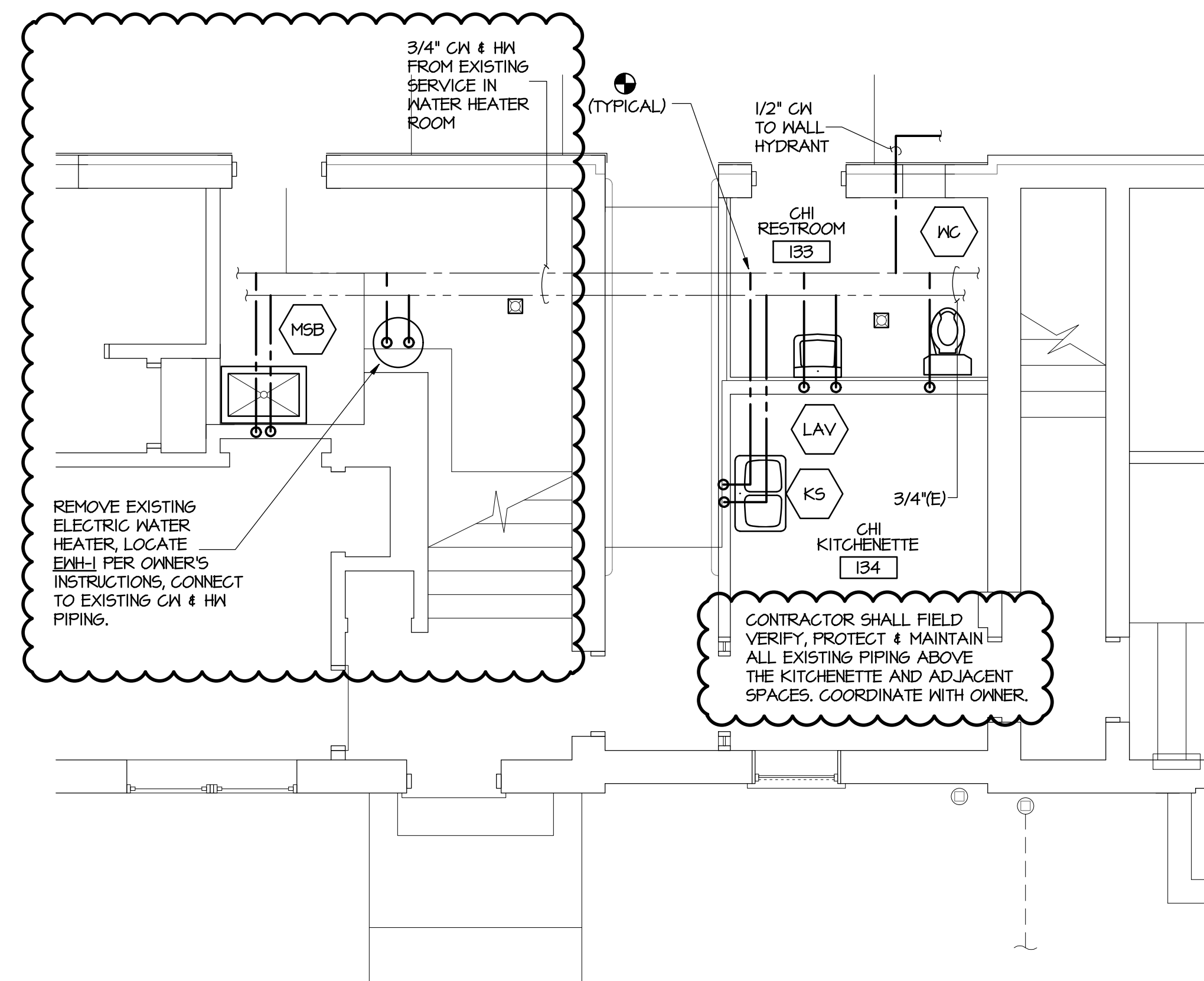
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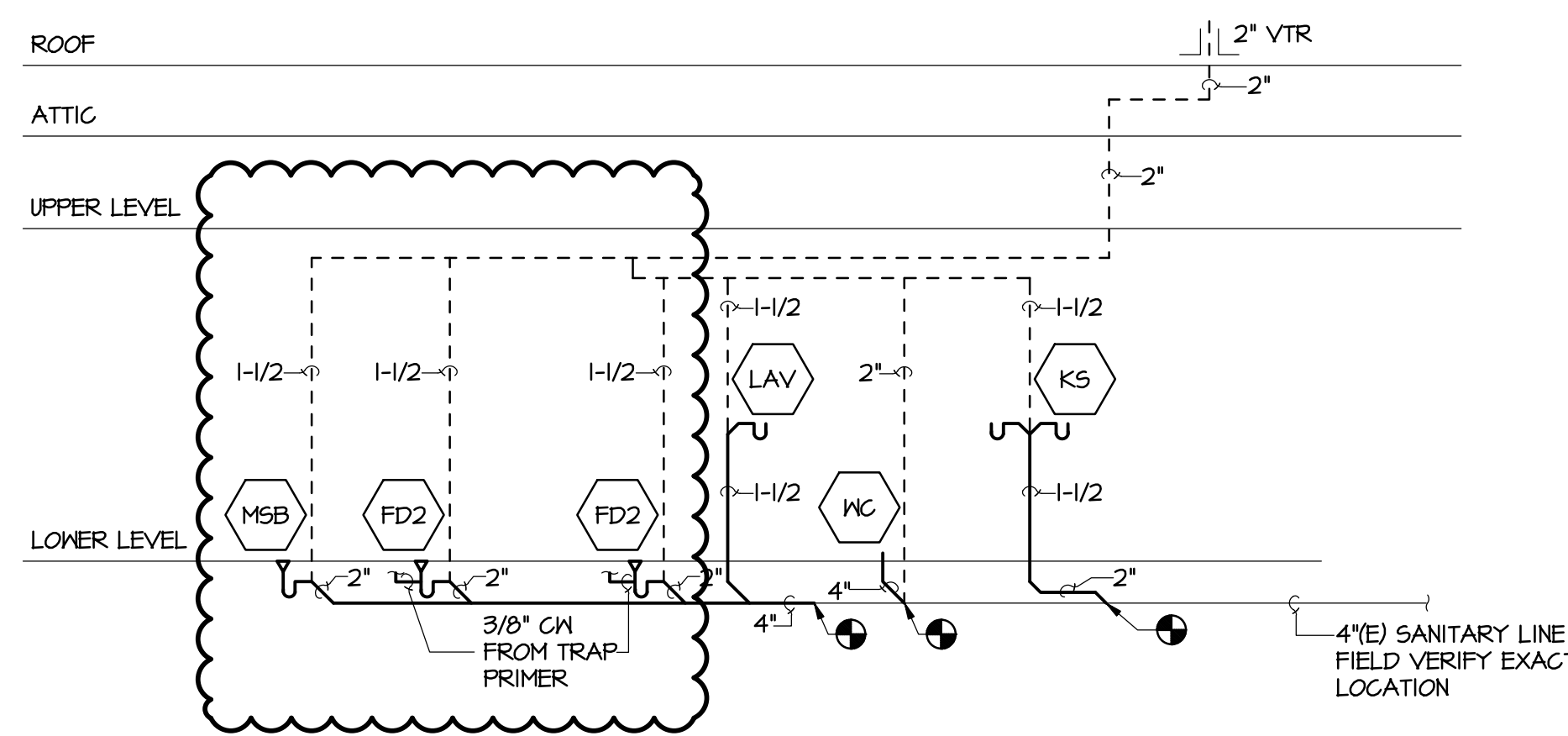
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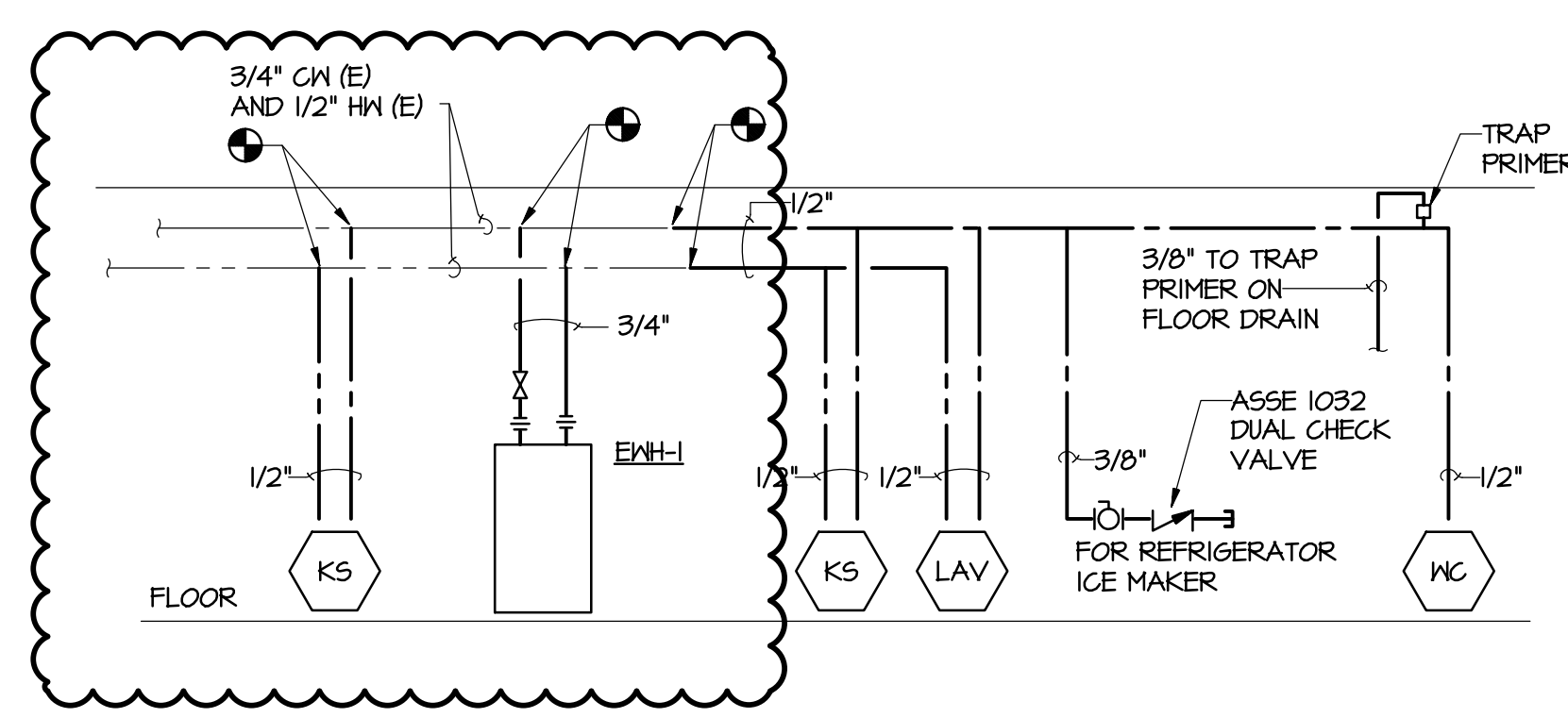
PART. PLAN - SANITARY
 1/4" = 1'-0"



PART. PLAN - WATER
 1/4" = 1'-0"



SANITARY RISER DIAGRAM
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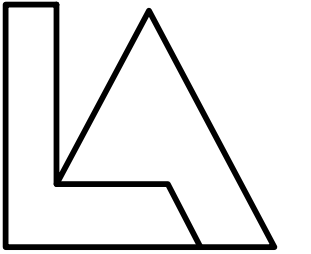


WATER RISER DIAGRAM
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PLUMBING

PARTIAL PLANS
 SANITARY & WATER

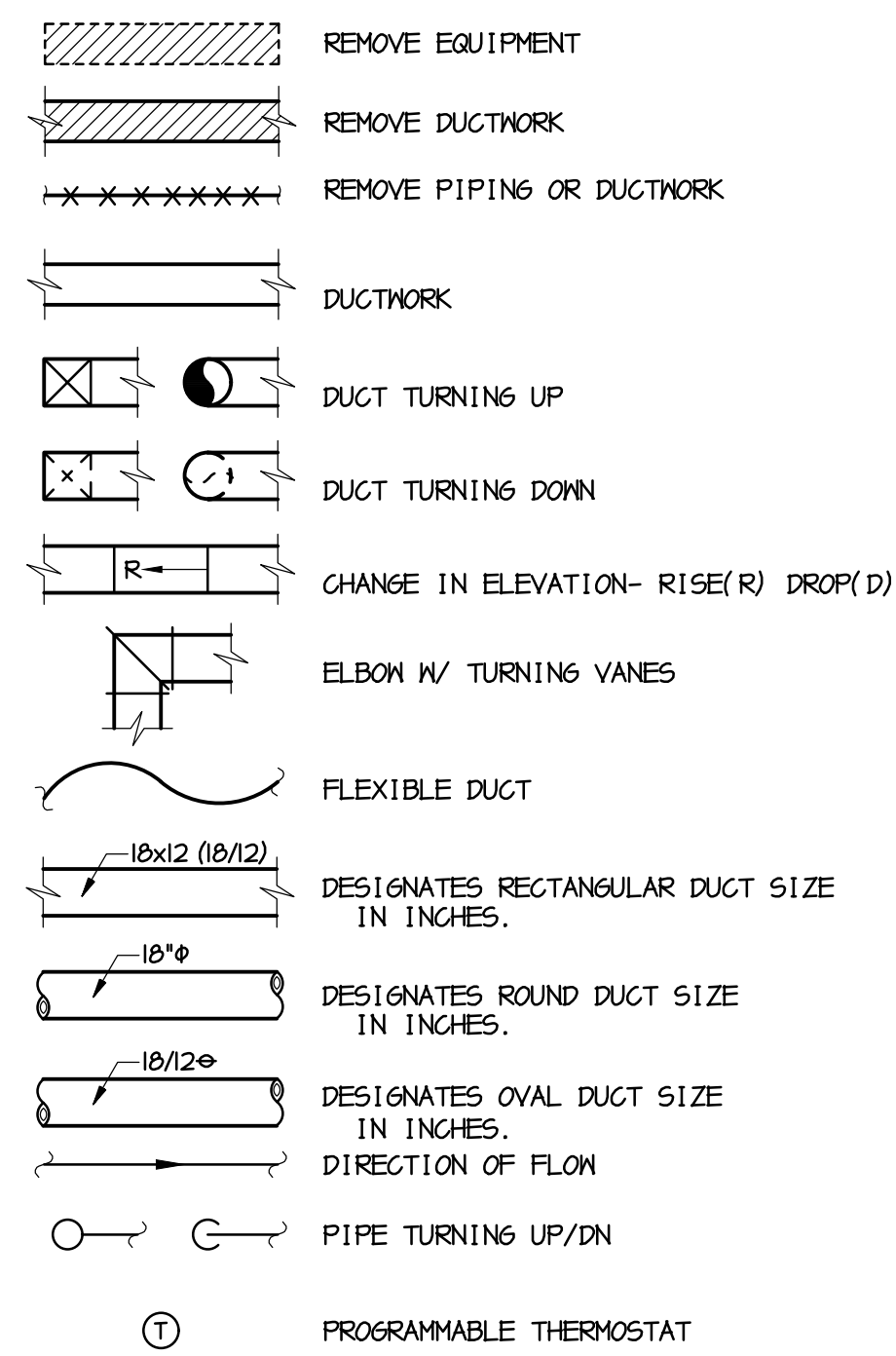
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P301

MECHANICAL ABBREVIATIONS

L	ANGLE	MAX	MAXIMUM
0	AT	MBH	THOUSAND BTU PER HOUR
ABV	ABOVE	MECH	MECHANICAL
AD	ACCESS DOOR	MER	MECHANICAL EQUIPMENT ROOM
AFF	ABOVE FINISH FLOOR	MFR	MANUFACTURER
AFMS	AIRFLOW MEASURING STATION	MHP	MOTOR HORSEPOWER
AHU	AIR HANDLING UNIT	MOD	MOTOR OPERATED DAMPER
ARCH.	ARCHITECT	MUN	MAKE UP WATER
A.S.	AS SHOWN	N/A	NOT APPLICABLE
AUX	AUXILIARY	NC	NOISE CRITERION, NORMALLY CLOSED
BD	BACKDRAFT DAMPER	NIC	NOT IN CONTRACT
BFP	BACKFLOW PREVENTER	NO.	NUMBER, NORMALLY OPEN
BLDG	BUILDING	NTS	NOT TO SCALE
BLN	BELOW	O	OPEN
BOT	BOTTOM	O/A	OUTSIDE AIR
BTU	BRITISH THERMAL UNIT	OAC	OPEN ABOVE CEILING (IN WALL)
BV	BRICK VENT	OAL	OUTSIDE AIR INTAKE LOUVER
BWV	BACK WATER VALVE	OC	ON CENTER
CD	CEILING DIFFUSER	OBP	OPPOSED BLADE DAMPER
CEF	CEILING EXHAUST FAN	OED	OPEN END DUCT W/ 1/2" WIRE MESH
CFH	CUBIC FEET PER HOUR	OV	OUTLET VELOCITY
CFM, C, F	CUBIC FEET PER MINUTE	PCF	POUNDS PER CUBIC FOOT
CG	CEILING GRILLE	PE	PIPE ENCLOSURE
CI	CAST IRON	PRESS.	PRESSURE
CL6	CLEANOUT	PRV	PRESSURE REDUCING VALVE
CO	CEILING EXHAUST FAN	PSF	POUNDS PER SQUARE FOOT
CONC	CONCRETE	PSI	POUNDS PER SQUARE INCH
COND	CONDENSATE	PSIG	POUNDS PER SQUARE INCH GAUGE
CONN	CONNECTION	R	REMOVE
CR	CEILING RETURN	REC	RECOVERY
CUH	CABINET UNIT HEATER	REG	REGISTER
CV	CONTROL VALVE	REQD	REQUIRED
dB	DECIBELS	RPM	REVOLUTIONS PER MINUTE
DB	DRY BULB	RR	RETURN REGISTER
DBL	DOUBLE	SA	SHOCK ABSORBER
DDC	DIRECT DIGITAL CONTROL	SD	DUCT SMOKE DETECTOR
DESIG	DESIGNATION	SF	SQUARE FEET
DET	DETAIL	SF	SUPPLY FAN
DIA	DIAMETER	SR	SUPPLY REGISTER
DN	DOWN	SS	STAINLESS STEEL
DN6	DRAINING	TEMP	TEMPERATURE, TEMPORARY
E	EXISTING	T6	TRANSFER GRILLE
EA	EACH	TJN	THRU JOIST NEB
EAT	ENTERING AIR TEMPERATURE	TOC	TOP OF CONCRETE
ECT	EVAPORATIVE COOLING TOWER	TYP	TYPICAL
EL	ELEVATION	TU	TERMINAL UNIT
ELEV	ELEVATION	UBJ	UP BETWEEN JOIST SPACE
EQ	EQUAL	UH	UNIT HEATER
EQUIP.	EQUIPMENT	UTR	UP THRU ROOF
ER	EXHAUST REGISTER	UV	UNIT VENTILATION
ESP	EXTERNAL STATIC PRESSURE	V	VENT
ENT	ENTERING WATER TEMPERATURE	VAV	VARIABLE AIR VOLUME
EXH	EXHAUST	VENT	VENTILATION
EXIST.	EXISTING	VFD	VARIABLE FREQUENCY DRIVE
EF	EXHAUST FAN	VIV	VALVE IN VERTICAL
F	FAHRENHEIT	VP	VENT PIPE
FC	FLEXIBLE CONNECTION	VTR	VENT THRU ROOF
FCU	FAN COIL UNIT	W	WIDTH
FD	FIRE DAMPER, FLOOR DRAIN	W/	WITH
FIN.	FINISH (ED)	W/O	WITHOUT
FL	FLOOR; FULL LENGTH	WB	WET BULB
FLEX.	FLEXIBLE	MCO	MALL CLEANOUT
FFM	FEET PER MINUTE	WF	MALL FIN
FPT	FAN POWERED TERMINAL UNIT	WG	WATER GAUGE
FT	FOOT, FEET	WT	WEIGHT
FT6	FITTING	MTR, H ₂ O	WATER
FTR	FLUE THRU ROOF		
FV	FACE VELOCITY		
G	GAUGE		
GAL	GALLON		
GPM	GALLONS PER MINUTE		
H	HEIGHT		
HTR	HEATER		
HP6	HIGH PRESSURE GAS		
HV	HEATING AND VENTILATING UNIT		
HVAC	HEATING, VENTILATING & AIR CONDITIONING		
IN.	INCH (ES)		
INV	INVERT		
LAT	LEAVING AIR TEMPERATURE		
LAV	LAVATORY		
LBS	POUNDS		
LBS/HR	POUNDS PER HOUR		
LD	LINEAR DIFFUSER (SUPPLY)		
L6	LONG; LENGTH		
LNRG	LOW WALL RETURN GRILLE		

MECHANICAL SYMBOLS



MECHANICAL GENERAL NOTES

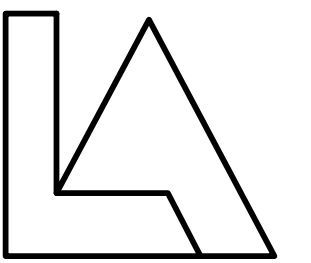
- NOTES APPLY TO ALL MECHANICAL DRAWINGS.
- FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
 - COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION OR INSTALLATION OF ANY WORK.
 - CONTRACTOR SHALL PROVIDE MISCELLANEOUS STEEL AS REQUIRED TO PROPERLY SUPPORT SUSPENDED DUCTWORK, PIPING, AND EQUIPMENT. STEEL SHALL BE SUPPORTED FROM STRUCTURAL FRAMING MEMBERS. STEEL SHALL BE GALVANIZED OR PAINTED.
 - BALANCE AIR TO QUANTITIES INDICATED ON DRAWINGS.
 - PROVIDE FITTINGS FOR CHANGE IN PIPE SIZE AND FOR FINAL CONNECTIONS AT EQUIPMENT AS REQUIRED.
 - COORDINATE PIPING RUNS WITH ALL TRADES.
 - COORDINATE ALL ELECTRICAL REQUIREMENTS OF MECHANICAL EQUIPMENT.
 - DUCTWORK AND PIPING SHALL BE CONCEALED ABOVE SUSPENDED CEILING, UNLESS OTHERWISE NOTED. RUN PIPING TIGHT TO THE UNDERSIDE OF THE STRUCTURE.
 - PROVIDE RISES/DROPS IN PIPING WHERE REQUIRED TO AVOID CONFLICTS WITH OTHER TRADES.
 - MAINTAIN CLEARANCES FROM ALL ELECTRICAL EQUIPMENT PER APPLICABLE CODES. DO NOT RUN PIPING OR DUCTWORK THROUGH ELECTRICAL ROOMS OR ABOVE ELECTRICAL EQUIPMENT.
 - REFRIGERANT PIPING SHALL BE DRAIN-TEMPER COPPER TUBE, ASTM B 280, TYPE ACR OR TYPE L (TYPE B) DRAIN-COPPER TUBING WITH WROUGHT COPPER FITTINGS: ASME B16.22, WROUGHT COPPER UNIONS: ASME B16.22, AND BRONZE FILLER MATERIALS, AMS A5.8, CLASSIFICATION Bag-1 (SILVER).
 - REFRIGERANT PIPING SUPPORT: INSTALL HANGERS FOR COPPER TUBING WITH THE FOLLOWING MAXIMUM SPACING AND MINIMUM ROD SIZES:
 - NPS 1/2: MAXIMUM SPAN, 60 INCHES; MINIMUM ROD SIZE, 1/4 INCH.
 - NPS 5/8: MAXIMUM SPAN, 60 INCHES; MINIMUM ROD SIZE, 1/4 INCH.
 - NPS 1: MAXIMUM SPAN, 72 INCHES; MINIMUM ROD SIZE, 1/4 INCH.
 - NPS 1-1/4: MAXIMUM SPAN, 96 INCHES; MINIMUM ROD SIZE, 3/8 INCH.
 - NPS 1-1/2: MAXIMUM SPAN, 96 INCHES; MINIMUM ROD SIZE, 3/8 INCH.
 - INSULATE THE SUCTION LINE OF ALL REFRIGERANT PIPING WITH 3/4" THICK CELLULAR FOAM, ASTM C534, FLEXIBLE PRE FORMED PIPE INSULATION WITH WATERPROOF VAPOR BARRIER ADHESIVE. MAXIMUM FLAME SPREAD ASTM E84; 25. ON ROOF, COVER WITH ALUMINUM JACKET WITH SEAMS LOCATED ON BOTTOM SIDE OF HORIZONTAL PIPING.
 - MOUNT ALL THERMOSTATS AND OTHER CONTROL DEVICES AT 5'-6" ABOVE FLOOR UNLESS NOTED OTHERWISE. THERMOSTATS CONTROLLING THE VRF INDOOR UNITS SHALL BE PROGRAMMABLE. CONTROL SHALL HAVE A 5 DEGREE F DEADBAND AND SHALL BE EQUIPPED TO HAVE SETPOINT OVERLAP RESTRICTIONS.
 - BEFORE ANY MATERIALS OR EQUIPMENT ARE PURCHASED, THE CONTRACTOR SHALL SUBMIT TO THE OWNER FOR APPROVAL ONE ELECTRONIC COPY OF SUBMITTAL DATA. THIS DATA SHALL INCLUDE CATALOG NUMBERS, CUT SHEETS, DIAGRAMS, DRAWINGS, AND OTHER DESCRIPTIVE DATA AS MAY BE REQUIRED FOR ALL EQUIPMENT TO BE INSTALLED. COORDINATE INSTALLATION WITH EXISTING CONDITIONS.
 - WITHIN 30 DAYS OF TRAINING, SUBMIT AN ELECTRONIC COPY OF THE OPERATIONS AND MAINTENANCE MANUAL TO THE ARCHITECT FOR APPROVAL. UPON APPROVAL, DELIVER AN ELECTRONIC COPY AND TWO PRINT EDITIONS IN A BINDER TO THE OWNER. O&M MANUAL SHALL INCLUDE WARRANTIES, INSTALLATION MANUALS, MAINTENANCE SCHEDULES, AND PARTS LISTS.
 - TESTS
 - ADJUST ALL FAN DRIVES AND AIR DISTRIBUTION DEVICES TO PROVIDE THE REQUIRED AIR QUANTITIES AS SHOWN ON THE DRAWING WITHIN +10% TO -5%.
 - SUBMIT 3 COPIES OF AABC OR NEBB CERTIFIED BALANCING REPORT FOR THE OWNER'S APPROVAL AND RECORDS.
 - CONTRACTOR SHALL SUBMIT HVAC AS-BUILT DRAWING TO OWNER WITH 90 DAYS OF SYSTEM ACCEPTANCE.

DATE: 05/10/18 TIME: 11:00:00
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SCALE: FULL



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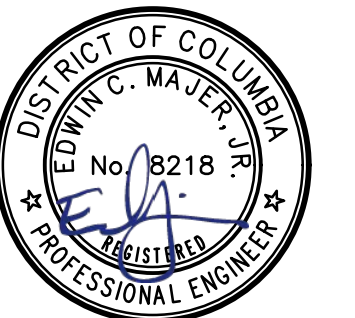
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**MECHANICAL
COVER SHEET**

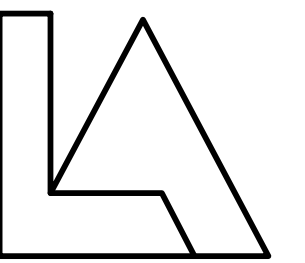
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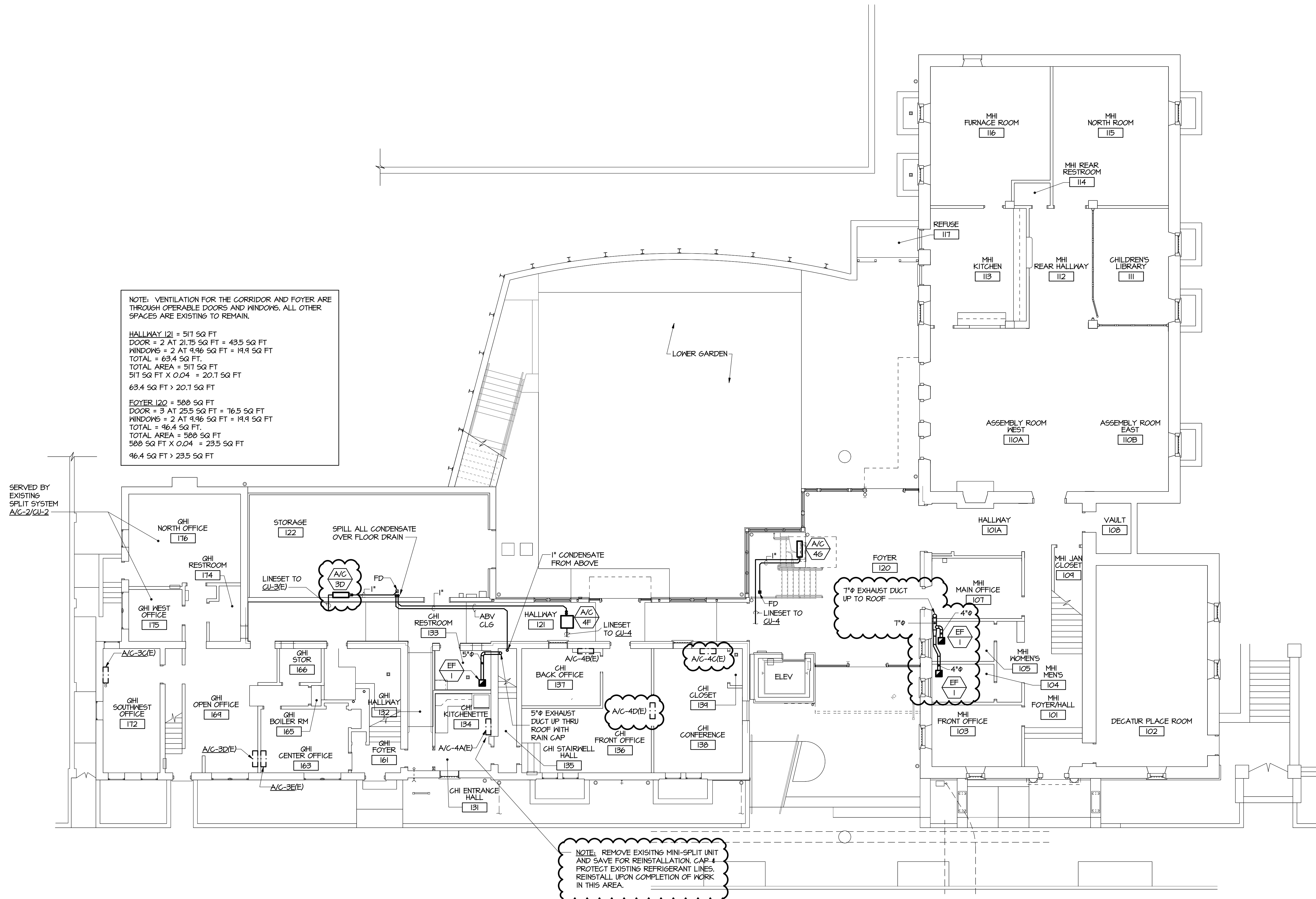
DRAWING TITLE

MECHANICAL

GROUND LEVEL
FLOOR PLAN

DRAWING NUMBER

M101

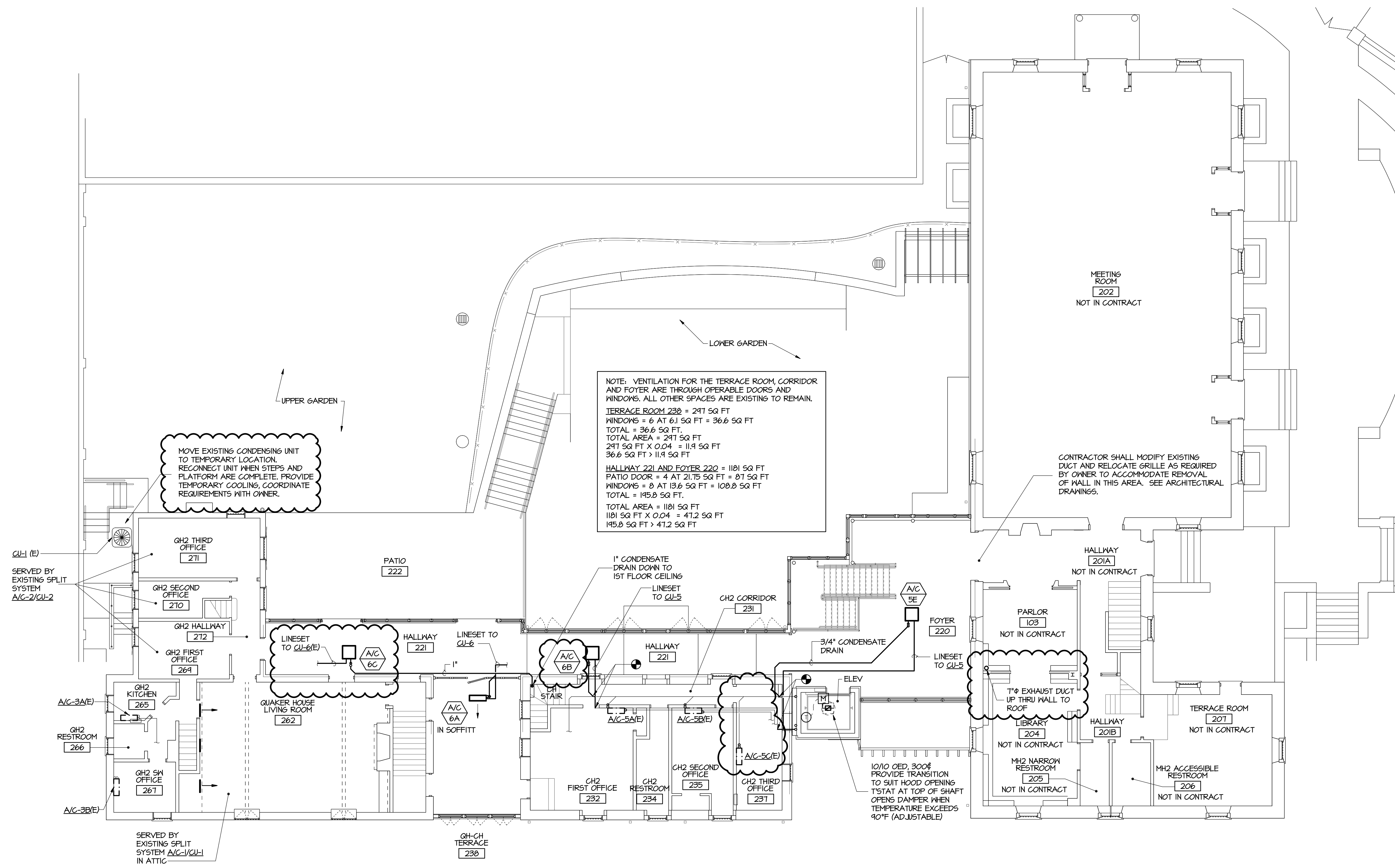


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DATE: 05/02/18
 TIME: 10:00 AM
 FILE: 600-022
 SCALE: 1/8" = 1'-0"

DATE: 05/02/18
 TIME: 10:00 AM
 FILE: 600-022
 SCALE: 1/8" = 1'-0"



NOTE: VENTILATION FOR THE TERRACE ROOM, CORRIDOR AND FOYER ARE THROUGH OPERABLE DOORS AND WINDOWS. ALL OTHER SPACES ARE EXISTING TO REMAIN.

TERRACE ROOM 230 = 241 SQ FT
 WINDOWS = 6 AT 61 SQ FT = 366 SQ FT
 TOTAL = 366 SQ FT
 TOTAL AREA = 241 SQ FT
 241 SQ FT X 0.04 = 11.9 SQ FT
 366 SQ FT X 11.9 SQ FT

HALLWAY 221 AND FOYER 220 = 1181 SQ FT
 PATIO DOOR = 4 AT 21.75 SQ FT = 87 SQ FT
 WINDOWS = 8 AT 13.6 SQ FT = 108.8 SQ FT
 TOTAL = 145.8 SQ FT
 TOTAL AREA = 1181 SQ FT
 1181 SQ FT X 0.04 = 47.2 SQ FT
 145.8 SQ FT X 47.2 SQ FT

MOVE EXISTING CONDENSING UNIT TO TEMPORARY LOCATION. RECONNECT UNIT WHEN STEPS AND PLATFORM ARE COMPLETE. PROVIDE TEMPORARY COOLING, COORDINATE REQUIREMENTS WITH OWNER.

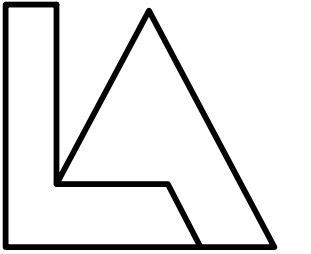
CONTRACTOR SHALL MODIFY EXISTING DUCT AND RELOCATE GRILLE AS REQUIRED BY OWNER TO ACCOMMODATE REMOVAL OF WALL IN THIS AREA. SEE ARCHITECTURAL DRAWINGS.

MEETING LEVEL FLOOR PLAN
 1/8" = 1'-0"
 5' 0' 5' 10' 15'



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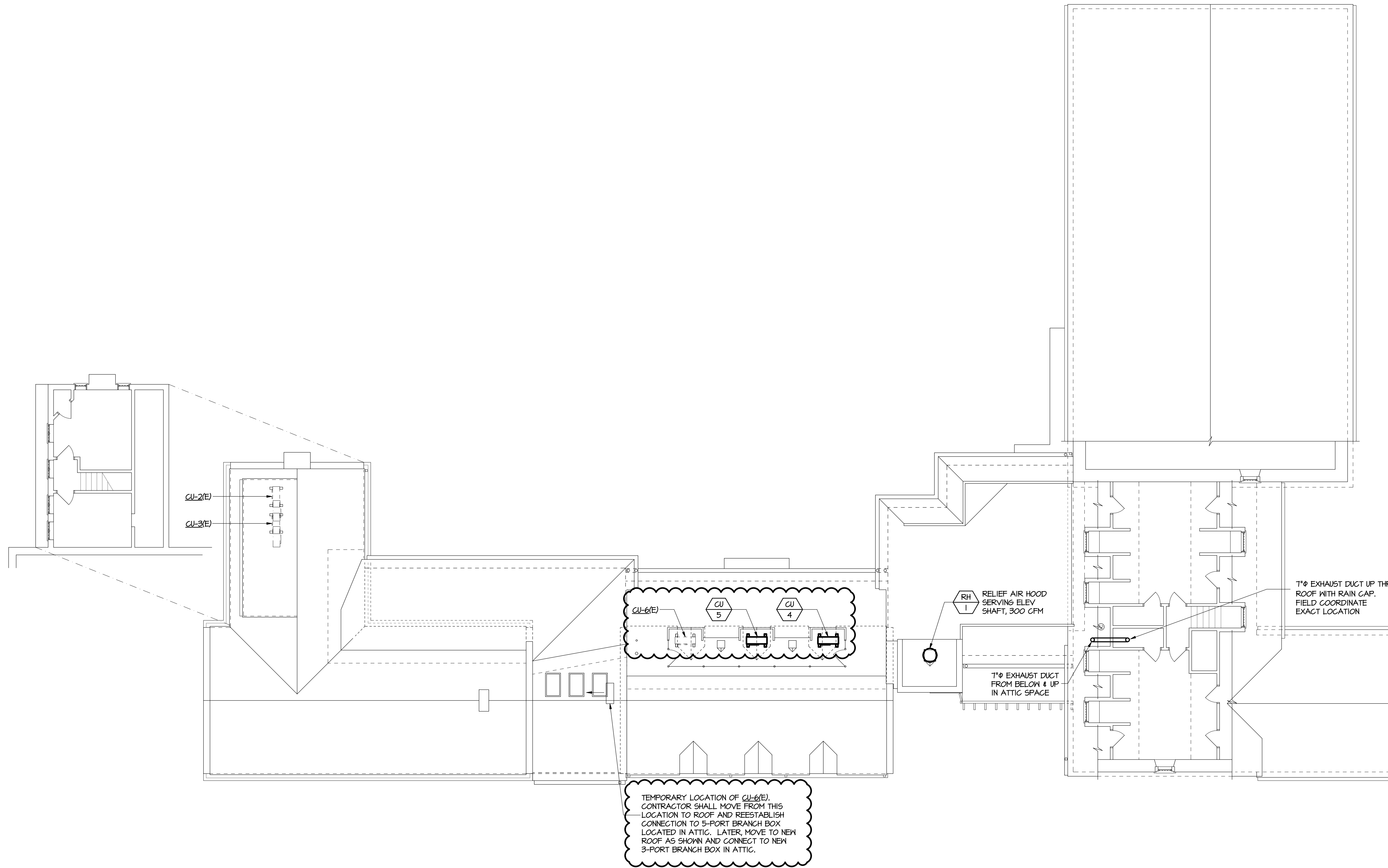
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 DATE 12-1-2017 BID SET

DRAWING TITLE
MECHANICAL
 MEETING LEVEL
 FLOOR PLAN

DRAWING NUMBER
M102

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

GA FILE: 600-0103 DATE: 05/01/18
TIME: 07:50:01
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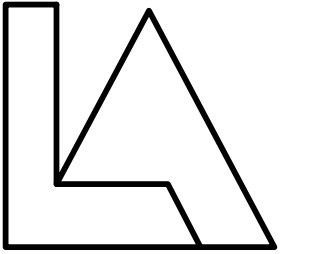


ROOF PLAN
1/8" = 1'-0"



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**MECHANICAL
ROOF PLAN**

DRAWING NUMBER
M103

VARIABLE REFRIGERANT SYSTEM SCHEDULE

INDOOR UNIT			AIR DATA								DX COOLING CAPACITY DATA				HEATING CAPACITY DATA			CONDENSER			PROTOTYPE: MITSUBISHI		REMARKS
DESIG	LOCATION	SERVES	CFM	ESP IN H ₂ O	FAN WATTS	TOTAL (MBH)	SENSIBLE (MBH)	EAT °F		TOTAL (MBH)	EAT °F		NO. OF FANS	HP EA.	DESIGN AMBIENT °F	INDOOR	OUTDOOR						
							DB	WB		DB	WB												
AC-3D	WALL-MOUNTED	STORAGE 122	380	0.1"		9.0	7.2	80	67	10.9	7.0	60	2	1/8	45	MSZ-GE09NA8	MXZ-8B48NA	SEE NOTES 1-5					
AC-4F	CEILING-MOUNTED	HALLWAY 121	450	0.1"	50	12.0	9.6	80	67	13.6	7.0	60				FLA-A12BA		SEE NOTES 1-4, 6					
AC-4G	FLOOR-MOUNTED	FOYER 120	500	0.1"	50	10.0	14.4	80	67	20.0	7.0	60	2	1/8	45	MFZ-KA18NA	MXZ-8C6NA	SEE NOTES 1-4, 6					
AC-5E	CEILING-MOUNTED	FOYER 220	550	0.1"	50	24.0	19.2	80	67	28.0	7.0	60	2	1/8	45	PLA-A24BA	MXZ-8C48NAHZ	SEE NOTES 1-4, 7					
AC-6A	DUCTED IN SOFFIT	GH-CH TERRACE 238	550	0.1"	50	24.0	19.2	80	67	28.0	7.0	60				PEAD-A24AA4		SEE NOTES 1-4, 8					
AC-6B	CEILING-MOUNTED	HALLWAY 221	500	0.1"	50	10.0	14.4	80	67	20.0	7.0	60	2	1/8	45	FLA-A18BA	MXZ-8B48NA	SEE NOTES 1-4, 8					
AC-6C	CEILING-MOUNTED	HALLWAY 221	450	0.1"	50	12.0	9.6	80	67	13.6	7.0	60				FLA-A12BA		SEE NOTES 1-4, 8					

- NOTES:**
- REFER TO ELECTRICAL DESIGN DOCUMENTS. PROVIDE UNITS WITH DISCONNECT SWITCHES.
 - CONTROL POWER TRANSFORMER AND LOW AMBIENT CONTROL SHALL BE FACTORY INSTALLED.
 - PROVIDE A COMPLETE VARIABLE REFRIGERANT SPLIT SYSTEM WITH ALL ASSOCIATED EEV KITS, REFRIGERANT HEADERS, AND CONDENSING UNIT MODULES. SYSTEM SHALL BE FULLY COMPATIBLE. EXACT NUMBER OF EEV KIT, HEADERS, AND SPLITTER BY SYSTEM MANUFACTURER.
 - INDOOR UNITS SHALL INCLUDE THE FOLLOWING: REMOTE TEMPERATURE SENSOR, STANDARD MICROPROCESSOR CONTROL, 2" FILTER, DISCONNECT SWITCH, AND A COMPLETELY CONCEALED CONDENSATE PUMP WHERE REQUIRED. SEE CONDENSATE PUMP SCHEDULE AND NOTES THIS SHEET.
 - PROVIDE REFRIGERANT PIPING/LINE SET TO EXISTING HEADER LOCATED IN GH BOILER ROOM AND TO CU-3 ON ROOF.
 - PROVIDE REFRIGERANT PIPING/LINE SET TO NEW HEADER LOCATED IN CLASS 101 AND CONNECT NEW AND EXISTING HEADER TO NEW CU-4 ON ROOF.
 - PROVIDE REFRIGERANT PIPING/LINE SET TO EXISTING HEADER LOCATED IN CH ATTIC AND CONNECT HEADER TO NEW CU-5 ON ROOF.
 - PROVIDE REFRIGERANT PIPING/LINE SET TO NEW HEADER LOCATED IN CH ATTIC ON THE CU-6 ON ROOF.
 - ALL HVAC COOLING EQUIPMENT SHALL MEET NAECA.

CONDENSATE PUMP SCHEDULE

DESIG	LOCATION	MIN. FLOW (GPH)	LIFT (FT)	MAX. FLOW (GPH)	MAX. TEMP (°F)	BASIS OF DESIGN: BLUE DIAMOND PUMPS, INC.	REMARKS
CP-1 THRU 10	CEILING	2	20	3.7	75	MAXI-BLUE	①

- NOTES:**
- PUMP AND COMPONENTS SHALL BE COMPLETELY CONCEALED FROM VIEW. LOCATE PUMP ABOVE CEILING. PROVIDE COMPATIBLE RESERVOIR AND SENSOR. RESERVOIR CAN BE PLACED INSIDE UNIT OR ABOVE CEILING. PUMP SHALL PLUG INTO INDOOR UNIT BOARD AND SHALL NOT REQUIRE SEPARATE POWER. PUMP SHALL BE CAPABLE OF SHUTTING OFF UNIT IN FAULT MODE AND RESTARTING WHEN CLEAR.

RELIEF HOOD SCHEDULE

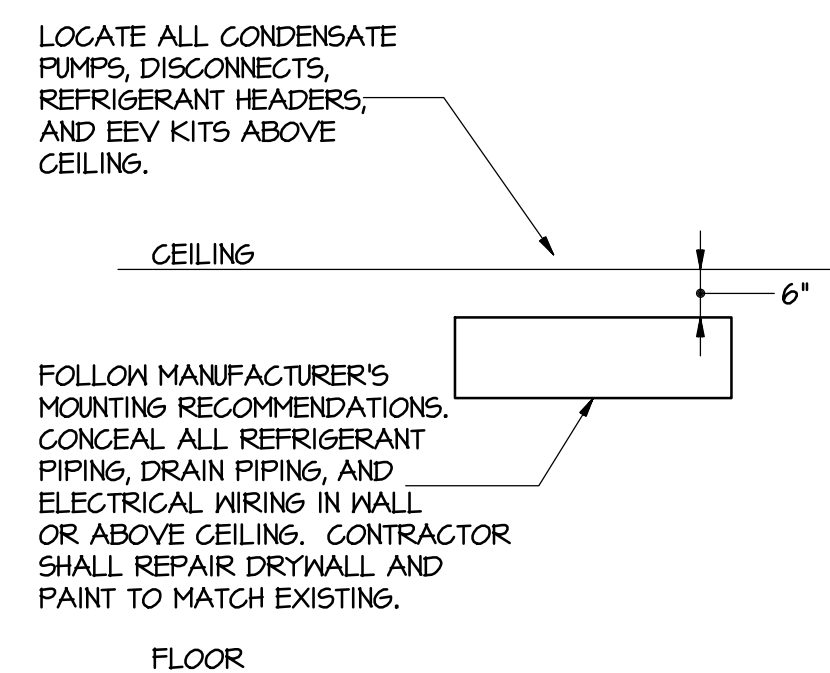
DESIG	STATIC PRESSURE IN H ₂ O	AIRFLOW CFM	PROTOTYPE	REMARKS
RH-1	.02	440	PENN BARRY WCC12	-

- NOTES:** PROVIDE WITH CURB AND BIRDSCREEN.

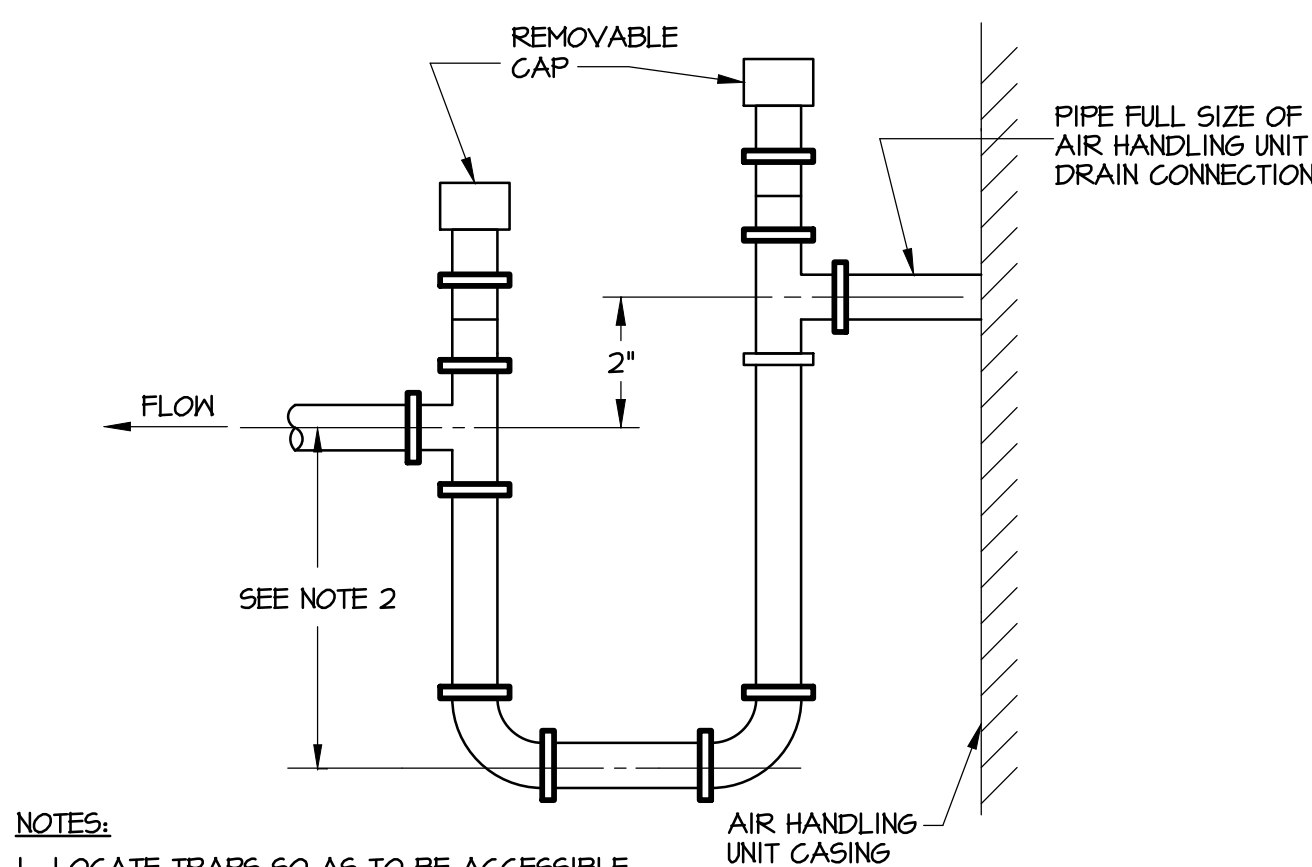
FAN SCHEDULE

DESIG	SERVES	TYPE	CFM	ESP	MHP	RPM MAX	STARTER	DRIVE	ACCESSORIES	PROTOTYPE PENN BARRY	REMARKS
EF-1	VARIOUS RESTROOMS	A	75	0.25	1/6	1550	HOA	DIRECT	E6	ZEPHYR ZL2	

- NOTES:**
- FAN TYPES: 'A' - CEILING EXHAUST FAN WITH GRILLE.
 - ACCESSORIES - VSC - VARIABLE SPEED CONTROLLER, E6 EXHAUST GRILLE
 - REFER TO ELECTRICAL DESIGN DOCUMENTS FOR ELECTRICAL CHARACTERISTICS.
 - PROVIDE UNIT MOUNTED DISCONNECT SWITCH ON ALL FANS.
 - INTERLOCK WITH LIGHT SWITCH.

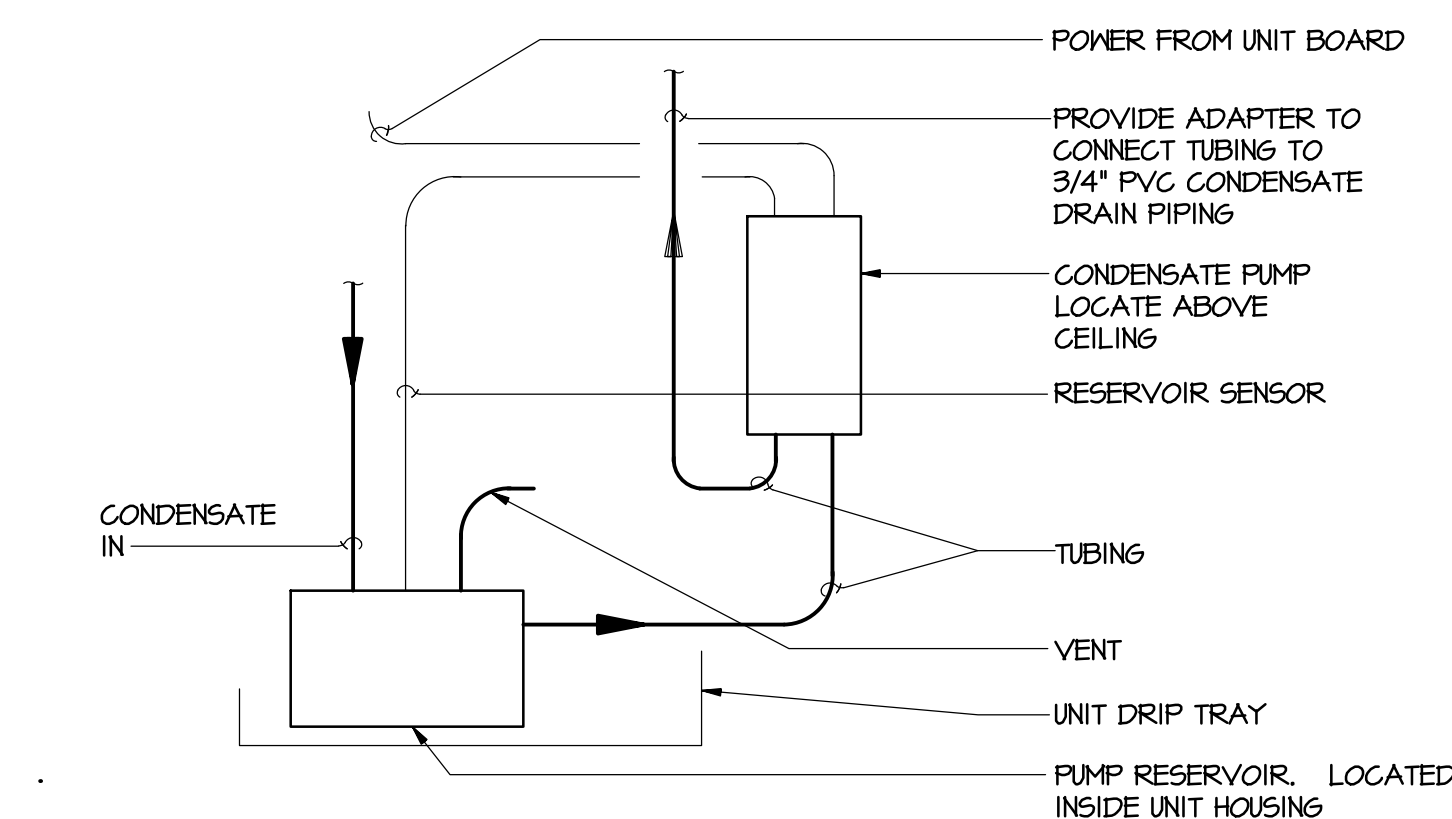


INDOOR UNIT MOUNTING DETAIL
NOT TO SCALE



- NOTES:**
- LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
 - LOCATE ABOVE CEILING
 - HEIGHT SHALL BE EQUAL TO AIR HANDLING UNIT TOTAL STATIC PRESSURE.

CONDENSATE DRAIN TRAP DETAIL
NOT TO SCALE

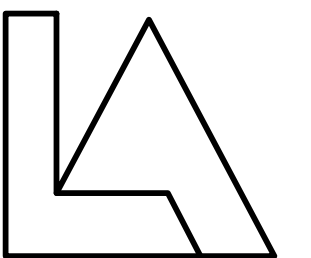


CONDENSATE PUMP PIPING DETAIL (TYPICAL FOR EACH UNIT)
NOT TO SCALE



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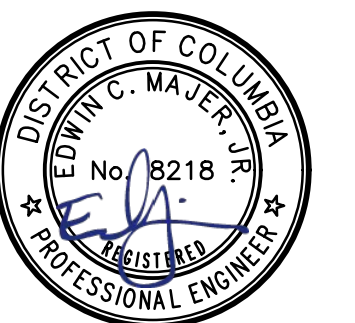
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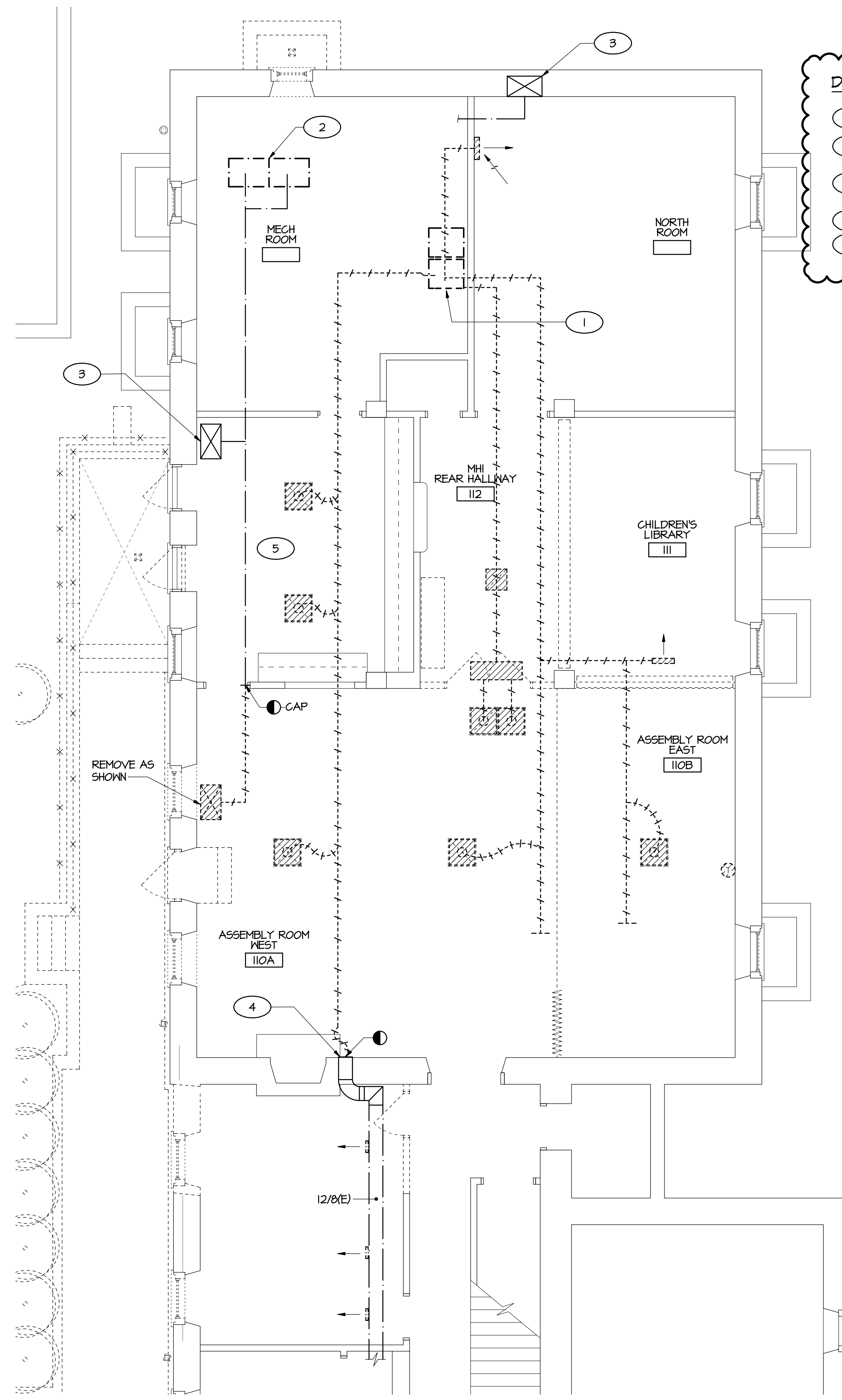
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MECHANICAL

**DETAILS AND
SCHEDULES**

DRAWING NUMBER

M501



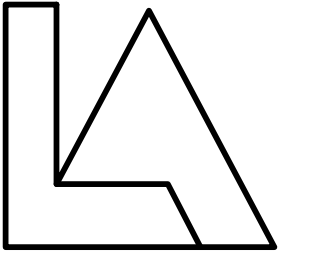
- DEMOLITION NOTES**
- 1 EXISTING CONDENSING FURNACE TO REMAIN.
 - 2 EXISTING TRINNED CONDENSING FURNACES SERVING MEETING ROOM ABOVE TO REMAIN. NIC.
 - 3 EXISTING DUCTS UP TO MEETING ROOM ABOVE TO REMAIN. NIC.
 - 4 FIELD VERIFY EXACT CONNECTION.
 - 5 REMOVE UNUSED DUCTS IN KITCHEN, FIELD VERIFY.

DEMOLITION PLAN
 3/16" = 1'-0"



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MECHANICAL

ADD ALT #1 - ASSEMBLY
 RM DEMOLITION PLAN

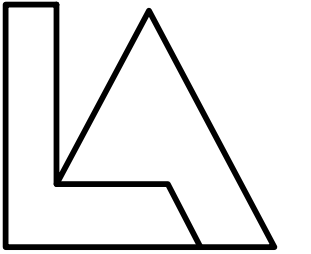
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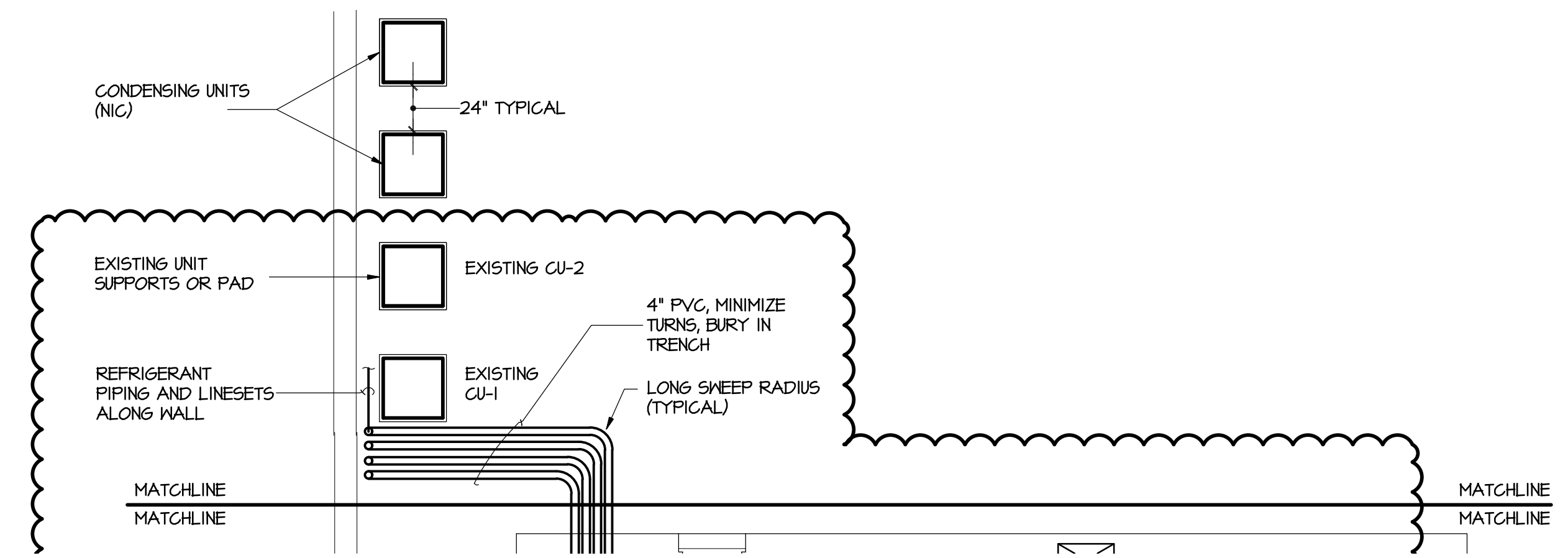
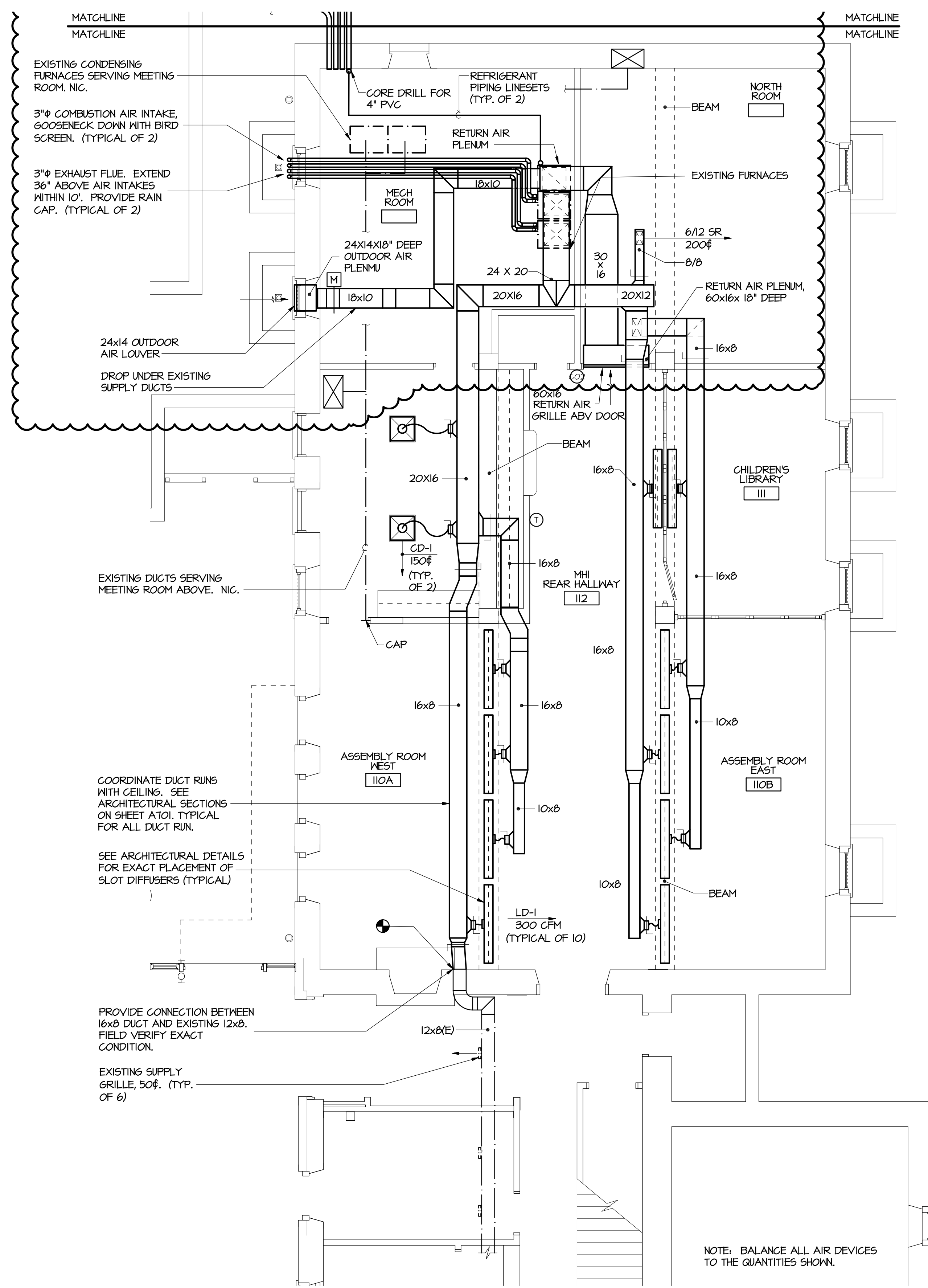
DRAWING TITLE

MECHANICAL

ADD ALT #1 - ASSEMBLY
RM FLOOR PLAN

DRAWING NUMBER

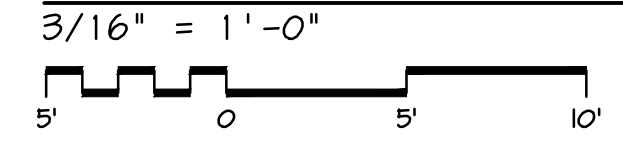
M702



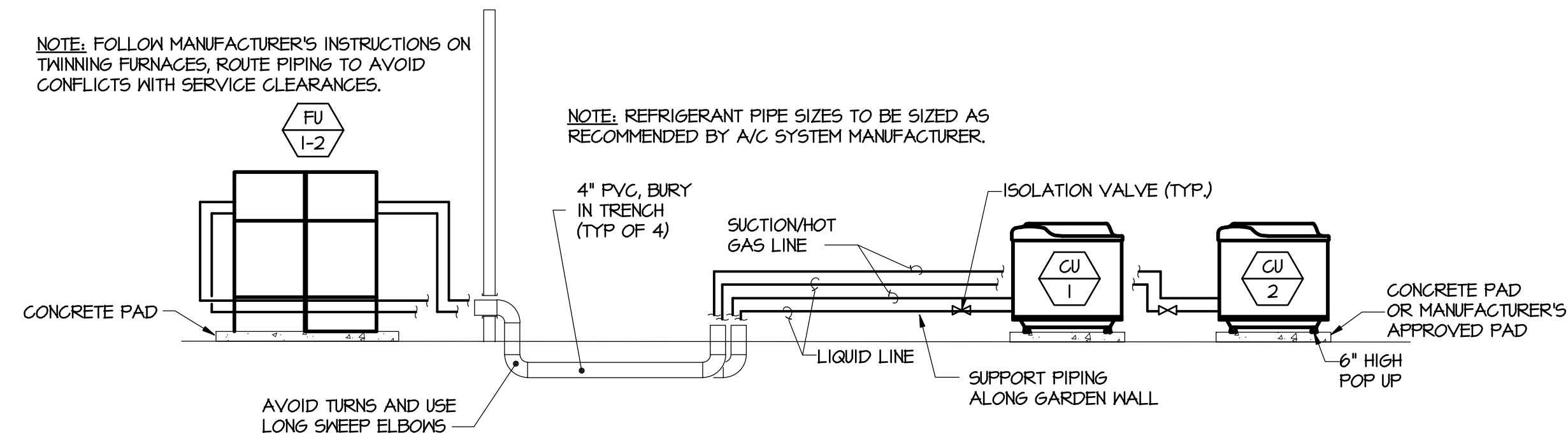
KEY NOTES

- 1 SPILL 2 EACH 3/4" CONDENSATE DRAINS OVER EXISTING FLOOR DRAIN. RECONNECT GAS PIPING TO SERVE TWINNED UNITS. SEE DETAILS AND GAS RISER.

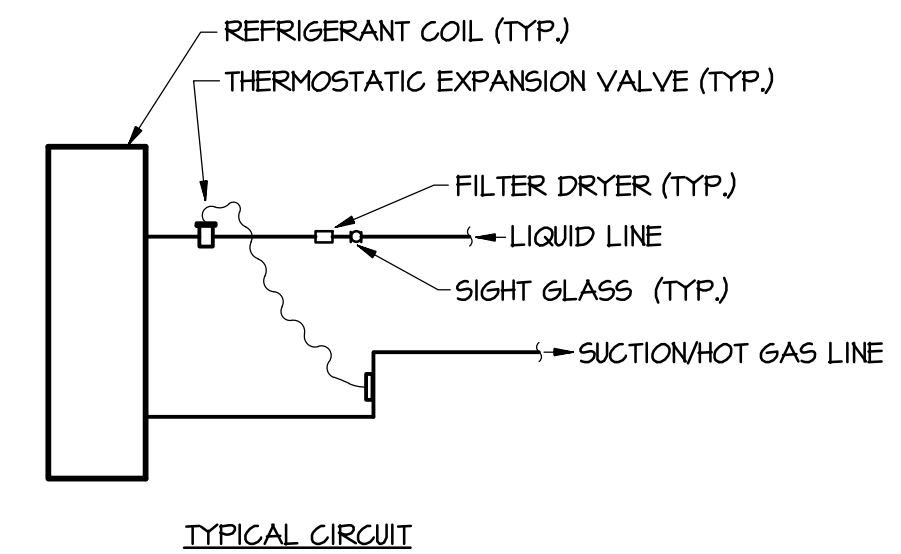
FLOOR PLAN



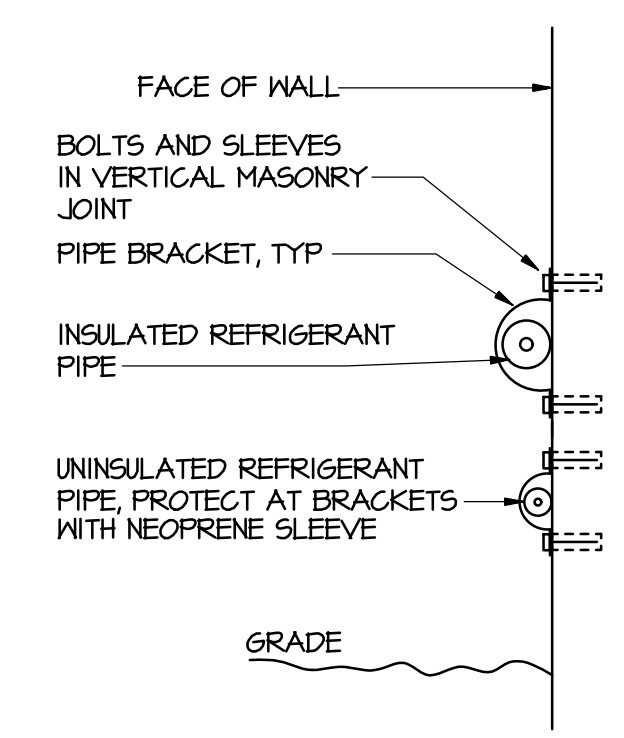
NOTE: BALANCE ALL AIR DEVICES TO THE QUANTITIES SHOWN.



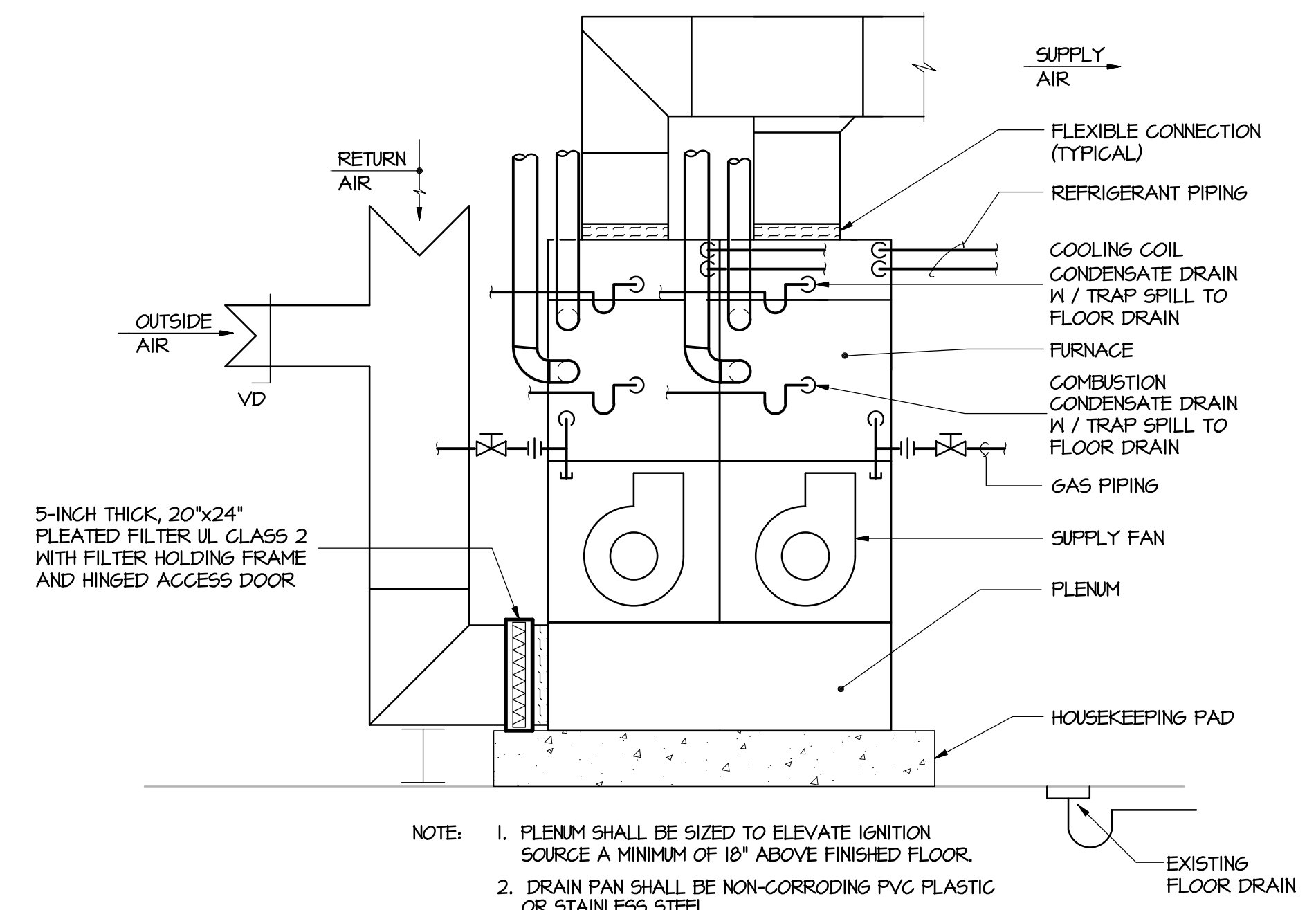
REFRIGERANT PIPING DIAGRAM
NOT TO SCALE



REFRIGERANT COIL PIPING DIAGRAM
NOT TO SCALE

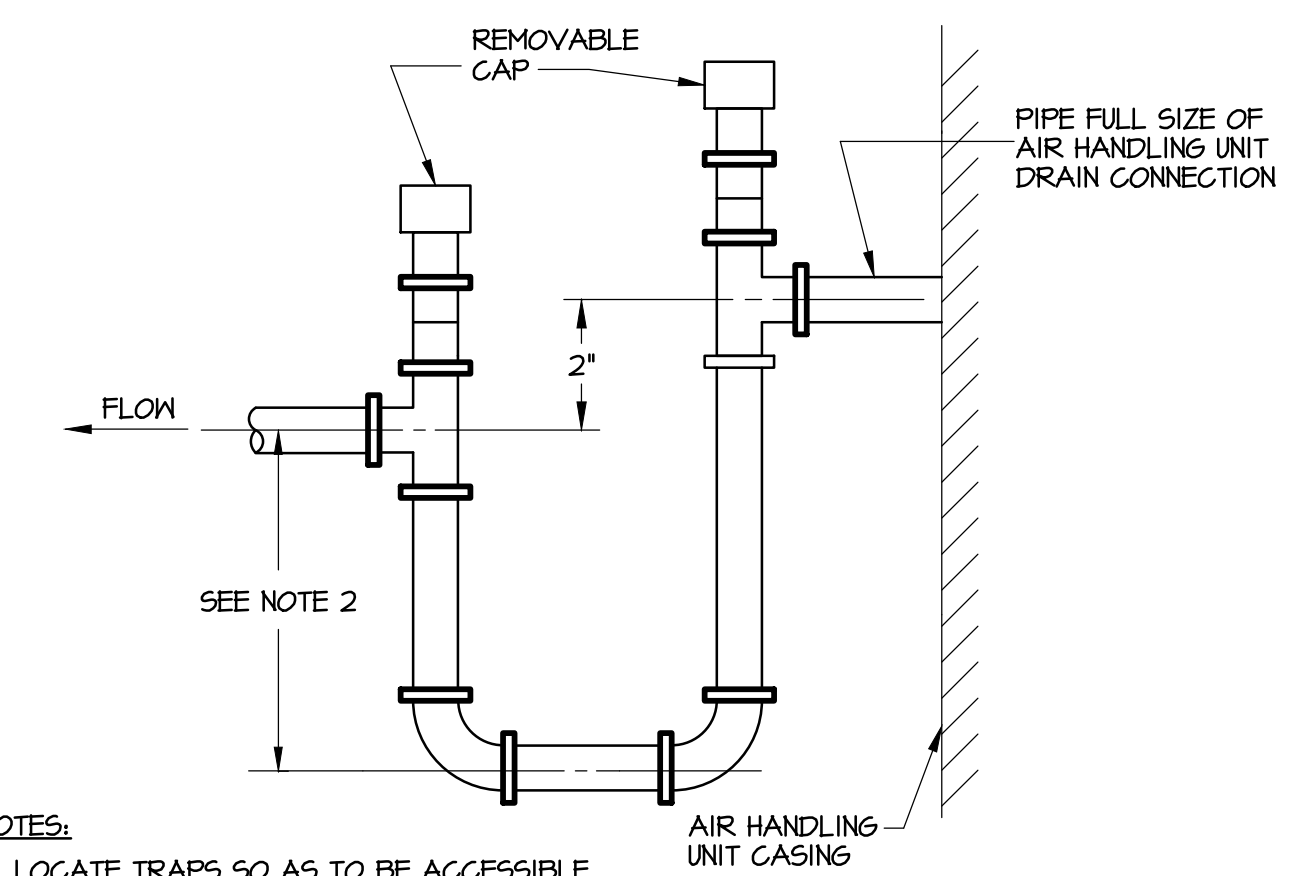


REFRIGERANT PIPE SUPPORT DETAIL
NOT TO SCALE



- NOTE:
1. PLENUM SHALL BE SIZED TO ELEVATE IGNITION SOURCE A MINIMUM OF 18" ABOVE FINISHED FLOOR.
 2. DRAIN PAN SHALL BE NON-CORRODING PVC PLASTIC OR STAINLESS STEEL.
 3. FOLLOW MANUFACTURER'S RECOMMENDATIONS ON THINNING FURNACE UNITS. MAINTAIN RECOMMENDED SERVICE CLEARANCES.

TWINNED FURNACE SCHEMATIC
NOT TO SCALE



- NOTES:
1. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.
 2. LOCATE ABOVE CEILING.
 3. HEIGHT SHALL BE EQUAL TO AIR HANDLING UNIT TOTAL STATIC PRESSURE.

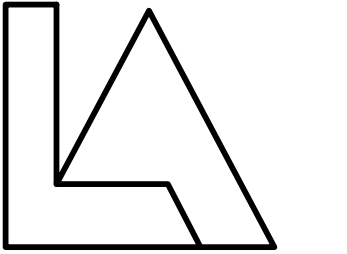
CONDENSATE DRAIN TRAP DETAIL
NOT TO SCALE

CAA FILE: 65010103 DATE: 05/10/16 TIME: 10:00:11
 SCALE: FULL



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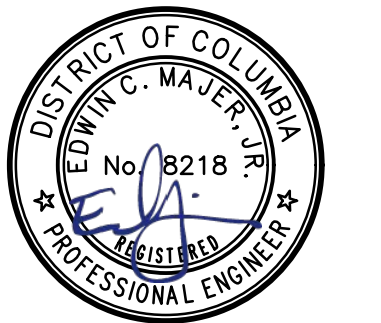
Lippincott Architects
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PROJECT TITLE

FRIENDS MEETING
OF WASHINGTON

ACCESSIBILITY LINK

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WASHINGTON, DC



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REVISIONS

NO.	DATE	DESCRIPTION
1	5-4-2016	CONSTRUCTION SET

DRAWN EMS
CHECKED JAW
DATE 12-1-2017 BID SET

DRAWING TITLE
MECHANICAL
ADD ALT #1 - ASSEMBLY
ROOM DETAILS

DRAWING NUMBER

M703

FURNACE AND CONDENSING UNIT SCHEDULE EXISTING FOR INFO ONLY

DESIG	LOCATION	SERVES	AIR DATA				COOLING CAPACITY DATA					HEATING DATA		OUTSIDE AIR DAMPER MIN CFM	PROTOTYPE CARRIER	REMARKS	
			CFM	ESP IN H ₂ O	FAN HP	MAX COIL FACE VEL. FPM	TOTAL (MBH)	SENSIBLE (MBH)	EAT °F		COMP. KW MAX	SEER	INPUT MBH				OUTPUT MBH
FU-1/CU-1	MECH. ROOM	SOCIAL ROOM	1400	0.8	1	500	60	45.6	78	91	5.62	16	100	44	200	54TP6A100E21-20	---
FU-2/CU-2	MECH. ROOM	SOCIAL ROOM	1400	0.8	1	500	60	45.6	78	91	6	16	100	44	475	54TP6A100E21-20	---

- NOTES:
- REFER TO ELECTRICAL DESIGN DOCUMENTS.
 - CONTROL POWER TRANSFORMER AND LOW AMBIENT CONTROL SHALL BE FACTORY INSTALLED.
 - CONDENSING UNIT AND COOLING COIL SHALL BE FULLY COMPATIBLE AND MATCHED WITH FURNACE.
 - INTERLOCK MOTORIZED DAMPER IN OUTDOOR AIR INTAKE DUCT WITH CO2 SENSOR LOCATED IN SPACE.

AIR COOLED CONDENSING UNIT SCHEDULE EXISTING FOR INFO ONLY

DESIG	NOM CAP. TONS	COMPRESSOR		CONDENSER		ELECT. CHAR.		SERVES	PROTOTYPE CARRIER	REMARKS	
		NO.	KW TOT	NO. OF FANS	KW TOT	DESIGN AMBIENT °F	MAIN POWER				CONTROL
CU-1	5	1	-	1	0.18	40	NOTE 1	NOTE 1	F-1	24ANB660A003	SEE NOTES 2, AND 3.
CU-1	5	1	-	1	0.18	40	NOTE 1	NOTE 1	F-2	24ANB660A003	SEE NOTES 2, AND 3.

- NOTES:
- REFER TO ELECTRICAL DESIGN DOCUMENTS.
 - CONTROL POWER TRANSFORMER AND LOW AMBIENT CONTROL SHALL BE FACTORY INSTALLED.
 - CONDENSING UNIT SHALL BE FULLY COMPATIBLE AND MATCHED WITH SPLIT-SYSTEM AIR HANDLING UNIT.

REGISTERS AND GRILLES SCHEDULE

DESIG	SERVICE	CFM RANGE	FACE (IN)	FACE BLADES			FINISH (1)	MAX. NO LEVEL dB	PROTOTYPE	ACCESSORIES (2)	REMARKS
				DEFLEC.	SPACING	MATERIAL					
SR	SUPPLY	-	AS SHOWN	ADJUST.	1/2"	ALUMINUM	W-E	30	-	OBD	NOTE 3
RR	RETURN	-	AS SHOWN	0°	1/2"	ALUMINUM	W-E	30	-	OBD	NOTE 3

- NOTES:
- 'W-E' - WHITE ENAMEL; 'UNPTD' - UNPAINTED.
 - 'OBD' - OPPOSED BLADE DAMPER; 'VD' - VOLUME DAMPER.
 - COORDINATE MOUNTING TYPE WITH CEILING.

CEILING DIFFUSER SCHEDULE

DESIG.	SERVICE	CFM RANGE	NECK SIZE IN.	OVERALL FACE DIM.	FACE	MOUNTING	PATTERN	FINISH	MAX NO LEVEL DB	MAX P.D IN H ₂ O	REMARKS
CD-1	SUPPLY	0 - 170	6	24 x 24	LOUV.	LAY-IN	4-W	WHITE	25	0.10	TITUS TMS OR APPROVED EQUAL
LD-1	SUPPLY	200-300	8	6 FT	LINEAR SLOT	SURFACE	2 WAY	SILVER	25	0.10	TITUS ML-34 WITH PLENUM OR APPROVED EQUAL 6' LENGTH, 2 SLOTS AT 1" EACH

ST - STEEL
AL - ALUMINUM

Project Name: Friends Social Room	Unit Total Supply Air: 3800 cfm
Date: November 2017	Unit Total Outdoor Air: 950 cfm
Unit Designation: F-1 & 2	

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Room Number	Description	Area (ft²) (Az)	Area Outdoor Air Rate per VMC Table 403.3 (Ra)	Area Outdoor Air (RaAz)	Occupant Load Rate per VMC Table 403.3 (People/1000 ft²)	Occupancy C x F/1000 (Pz)	Occupant Outdoor Air Rate per VMC Table 403.3 (Rp)	Occupant Outdoor Air (RpPz)	Breathing Zone Outdoor Air (Vbz = RpPz + RaAz)	Zone Air Distribution Effectiveness (Ez)	Zone Outdoor Air (Voz = Vbz / Ez)	Supply Air Design (Vpz)	Secondary Recirculated Air	Outdoor Air Fraction (Zp = Voz / Vpz)
East & West North	Assembly storage rm	1024	0.06	61	120	123	5	615	676	0.8	845	3000	0	0.282
	kitchen	300	0.12	36	0	0	0	0	36	0.8	45	200	0	0.225
	Office	301	0	0	0	0	0	0	0	0.8	0	300	0	0.000
		200	0.06	12	5	1	5	5	17	0.8	22	300	0	0.073
			0	0	0	0	0	0	0	0.8	0	0	0	0.000
			0	0	0	0	0	0	0	0.8	0	0	0	0.000
Totals		1825		109		124		620	729		912	3800	0	0.282

2009 OA Version 6.0 A-1 Option - FFX - REG - 3/15/10

Occupant Diversity
D = Pz / Σ all zones Pz

Total Required Outdoor Air

E_v
0.870

Do not utilize Occupant Diversity without specific approval from the Authority Having Jurisdiction

1.000

838

Uncorrected O.A.
V_{ou} = D Σ all zones RpPz + Σ all zones RaAz

System Population (Ps)

Percentage of Outdoor Air

Method

Diversity → 124

729

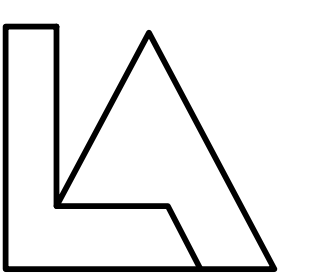
22%

IMC Chart



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REVISIONS

NO.	DATE	DESCRIPTION
5-4-2018		CONSTRUCTION SET

DRAWN EMS

CHECKED JAN

DATE 12-1-2017 BID SET

DRAWING TITLE

MECHANICAL

ADD ALT #1 - ASSEMBLY ROOM SCHEDULES

DRAWING NUMBER

M704

DATE: 05/01/18 TIME: 11:04
FILE: 6000104
DRAWN: JAW

DATE: 02/01/16 TIME: 10:02:00
 C:\A\FILE: 640-0001 DWG: SCALE: FULL

SYMBOLS	
GENERAL	
(X)	REMOVE
(E)	EXISTING TO REMAIN
(R)	REMOVE AND RELOCATE
LIGHTING	
	1'x4' FLUORESCENT STRIP LIGHT FIXTURE
	DOWNLIGHT FIXTURE
	WALL-WASHER LIGHT FIXTURE
	DOWNLIGHT FIXTURE
	STEP-LIGHT FIXTURE
	WALL MOUNTED EXIT SIGN
	CEILING MOUNTED EXIT SIGN
	LIGHT SWITCH MTD AT 48" AFF, UNO
	LIGHT SWITCH, "g" DENOTES LIGHTS CONTROLLED
	3-WAY LIGHT SWITCH MTD AT 48" AFF, UON
	SWITCH WITH OCCUPANCY SENSOR MTD AT 48" AFF, UON
	OCCUPANCY SENSOR - CEILING MOUNTED
POWER AND COMMUNICATION	
	DUPLEX RECEPTACLE, NEMA 5-20R, MTD 18" AFF, UON
	GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE, NEMA 5-20R, FLUSH WALL MTD.
	DUPLEX RECEPTACLE, NEMA 5-20R, FLUSH FLOOR MTD
	PANELBOARD 6'-0" AFF TO TOP CL6.
	CONNECTION TO MOTOR
	MOTOR RATED SWITCH
	UNFUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH 30/2/30
	WALL MOUNTED JUNCTION BOX
	CEILING MOUNTED JUNCTION BOX
	THREE JACK TELECOMMUNICATION OUTLET, FLUSH FLOOR MTD
	CEILING MTD FIRE ALARM STROBE. SET GANDELA LEVELS AS SHOWN ON PLANS.
WIRING	
	UNDERGROUND CONDUCTORS AND CONDUIT
	CONDUIT RUN CONCEALED IN OR UNDER FLOOR SLAB
	2 #12, 1 #12 GND IN 3/4" CONDUIT, UON
	HOMERUN TO PANELBOARD CIRCUIT NO
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP

ABBREVIATIONS			
A	AMPERE	MCA	MINIMUM CIRCUIT AMPS
AFF	ABOVE FINISH FLOOR	MCM	THOUSAND CIRCULAR MILLS
AIC	AMPERE INTERRUPTING CAPACITY	MDP	MAIN DISTRIBUTION PANEL
AMP	AMPERE	MEGH	MECHANICAL
AWG	AMERICAN WIRE GAGE	MFR	MANUFACTURER
BKR	BREAKER	MIN	MINIMUM
BLDG	BUILDING	MTD	MOUNTED
		MTG	MOUNTING
C	CONDUIT	N/A	NOT APPLICABLE
C/B	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
CKT	CIRCUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CJ	COPPER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
DISC	DISCONNECT SWITCH	NFSS	NON-FUSED SAFETY SWITCH
DP	DISTRIBUTION PANEL		
DWG(S)	DRAWING(S)		
EG	EMPTY CONDUIT		
ELEC	ELECTRIC (AL)	NIC	NOT IN CONTRACT
EMER	EMERGENCY EQUIP	NTS	NOT TO SCALE
EMC	ELECTRIC WATER COOLER EXIST	PH#	PHASE
FA	FIRE ALARM	PLB#	PLUMBING
FAFP	FIRE ALARM CONTROL PANEL	PNL	PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL	PP	POWER PANEL
FSS	FUSED SAFETY SWITCH	PWR	POWER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	RECP	RECEPTACLE
GND	GROUND	REF	REFER
HP	HORSEPOWER	RM	ROOM
HVAC	HEATING / VENTILATING / AIR CONDITIONING	RP	RECEPTACLE PANEL
		STD	STANDARD
		STRUCT	STRUCTURE (AL)
JB	JUNCTION BOX	TEL	TELEPHONE
kcmil	THOUSAND CIRCULAR MILLS	TEMP	TEMPERATURE;
KAIC	AMPERE INTERRUPT CAPACITY x 1000	TEMP	TEMPORARY
kV	KILOVOLT	TYP	TYPICAL
kVA	KILOVOLT - AMPERE	UG	UNDERGROUND
kW	KILOWATT	UH	UNIT HEATER
		UL	UNDERWRITERS LABORATORIES
LP	LIGHTING PANEL	UON	UNLESS OTHERWISE NOTED
LT6	LIGHTING	V	VOLT
		VA	VOLT-AMPERE
		XFMR	TRANSFORMER

ELECTRICAL - GENERAL NOTES

A. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING:

- 2013 DISTRICT OF COLUMBIA BUILDING CODE
- OSHA REGULATIONS
- NFPA REGULATIONS
- NFPA-70, NATIONAL ELECTRICAL CODE, 2011 EDITION
- REGULATIONS OF ALL APPLICABLE CODES

B. SCOPE

PROVIDE (FURNISH AND INSTALL) ALL LABOR, MATERIALS, SUPPLIES, PERMITS, TOOLS, EQUIPMENT, DEVICES AND APPLIANCES, AND PERFORM ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF COMPLETE ELECTRICAL SYSTEMS AND SATISFACTORY OPERATION OF ALL WORK AS SHOWN ON THE DRAWINGS OR HEREINAFTER SPECIFIED. THE SCOPE SHALL INCLUDE BUT SHALL NOT BE LIMITED TO THE FOLLOWING:

- PERMITS AND CERTIFICATES
- ELECTRICAL SYSTEMS AND EQUIPMENT
- TESTING OF EQUIPMENT SYSTEMS AND MATERIALS
- GENERAL PROVISIONS FOR ELECTRICAL WORK
- DEMOLITION

C. GENERAL PROVISIONS FOR ELECTRICAL WORK

- DOCUMENTS: DRAWINGS ARE CONSIDERED DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF WORK AND SYSTEMS. THE INTENT OF THIS DESIGN IS TO PROVIDE COMPLETE, PROPER, TESTED, ADJUSTED, BALANCED AND FULLY ACCEPTABLE SYSTEMS AND EQUIPMENT TO THE OWNER FOR HIS SUCCESSFUL USE. REFER TO DRAWINGS OF OTHER DISCIPLINES TO VERIFY LOCATION OF EQUIPMENT, ETC.
- QUALITY OF MATERIALS: NEW, FREE FROM DEFECTS AND SHALL BEAR THE UL LABEL.
- THE CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY EXAMINE ALL CONTRACT DOCUMENTS TO HAVE A COMPLETE UNDERSTANDING OF THE SCOPE OF THE PROJECT AND ALL EXISTING CONDITIONS, BEFORE SUBMITTING HIS PROPOSAL. ANY QUESTIONS, DISCREPANCIES, OR IRREGULARITIES THAT THE CONTRACTOR MAY HAVE ABOUT THE PROJECT, OR THAT MAY EXIST, SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING AND RESOLVED PRIOR TO BIDDING THE WORK, ORDERING MATERIALS, OR THE INSTALLATION OF WORK. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM ALL WORK AND TO PERFORM ALL MATERIALS AND EQUIPMENT REQUIRED FOR A COMPLETE AND SATISFACTORY INSTALLATION AS INTENDED BY THE ENGINEER.
- ADJACENT AREAS OF THE EXISTING FACILITY WILL REMAIN IN OPERATION WHILE WORK IS BEING DONE. ALL WORK SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE, AND SHALL BE SEQUENCED AND PERFORMED IN A MANNER TO MINIMIZE ANY IMPACTS ON EXISTING FACILITY OPERATIONS. CLEAN ALL OCCUPIED SPACES EACH DAY OF DUST AND DEBRIS, PROVIDE FIRE STOPPING AT ALL WALL AND FLOOR ASSEMBLY PENETRATIONS.
- ELECTRICAL DEMOLITION
 - PROVIDE ALL ELECTRICAL DEMOLITION WORK NECESSARY TO INSTALL NEW WORK. CONTRACTOR SHALL REMOVE AND RECONNECT ANY CIRCUITS THAT REMAIN IN USE BUT INTERFERE WITH NEW CONSTRUCTION.
 - EXERCISE CARE IN REMOVING DEMOLITIONED ITEMS. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGE CAUSED TO EXISTING CONSTRUCTION AND EQUIPMENT TO REMAIN.
 - ALL MATERIALS REMOVED UNDER DEMOLITION (AND NOT TO BE RELOCATED) SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED COMPLETELY FROM THE SITE UNLESS OTHERWISE NOTED.
 - WHERE ELECTRICAL DEVICES AND EQUIPMENT (RECEPTACLES, LIGHTING FIXTURES, SWITCHES, ETC.) ARE EXISTING TO REMAIN, MAINTAIN EXISTING CIRCUITING TO THOSE DEVICES. WHERE CIRCUITING TO EXISTING DEVICES AND EQUIPMENT IS DISCONNECTED BY WORK IN ADJACENT SPACES, THE CONTRACTOR SHALL RECONNECT THE REMAINING EXISTING DEVICES AND EQUIPMENT TO NEW DEVICES AS INDICATED OR TO THE REMAINING UNDISTURBED PORTION OF EXISTING CIRCUIT.
 - COORDINATION AND REPAIR: WHERE EXISTING ELECTRICAL WORK INTERFERES WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE INSTALLATION SHALL BE DISCONNECTED AND/OR RECONNECTED TO COORDINATE WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS AND AS SPECIFIED.

D. MATERIALS

I. WIRING

A. RACEWAYS: ELECTRICAL METALLIC TUBING INSTALLED INDOOR EXCEPT CONDUIT OUTDOORS SHALL BE RIGID GALVANIZED STEEL. USE RACEWAY NO SMALLER THAN 3/4". SUBSTANTIALLY SUPPORT RACEWAY BY STRAPS, CLAMPS OR HANGERS AND TWISTED WIRE ATTACHMENTS SHALL NOT BE ACCEPTABLE. DO NOT SUPPORT RACEWAYS FROM OTHER PIPES OR IN A MANNER TO PREVENT THE REMOVAL OF OTHER PIPES. PROVIDE EXPANSION JOINTS FOR RACEWAYS OVER 100 FEET IN LENGTH OR RACEWAYS AT CROSSING BUILDING EXPANSION JOINTS. INSTALL PULL BOXES IN SPACES THAT WILL BE ACCESSIBLE AFTER COMPLETION OF THE WORK. RIGIDLY MOUNT ALL BOXES AND PROVIDE WITH SUITABLE SCREEN FASTENED COVERS. PLUG OPEN KNOCKOUTS OR HOLES IN BOXES NOT USED FOR CONDUIT, WITH SUITABLE BLANKING DEVICE. PULL BOXES SHALL BE FABRICATED FROM GALVANIZED STEEL AND BE EQUIPPED WITH A SCREEN ON COVER. LABEL ALL CIRCUITS INSIDE PULL BOXES. EQUIPMENT CONNECTIONS SHALL BE MADE UTILIZING FLEXIBLE METAL CONDUIT FOR INTERIOR USE AND LIQUID TIGHT FLEXIBLE CONDUIT FOR EXTERIOR USE.

B. CONDUCTORS (600 VOLTS), UNLESS OTHERWISE SPECIFIED. PROVIDE STRANDED CONDUCTORS TYPE THHN-THWN INSULATION (75 DEGREES C). COMPLY WITH NEMA MC 70. PROVIDE #12 AWG COPPER MINIMUM BRANCH CIRCUIT WIRE SIZE AND #14 AWG COPPER MINIMUM CONTROL CIRCUIT WIRE SIZE. PROVIDE CONDUCTORS CONTINUOUS FROM OUTLET BOX. NO SPLICES SHALL BE PERMITTED IN FEEDERS OR BRANCH CIRCUITS. NO GREASE, OIL OR LUBRICANT OTHER THAN POWDERED SCAMSTONE OR APPROVED PULLING COMPOUND SHALL BE USED TO FACILITATE THE PULLING OF CONDUCTORS.

ALL LIGHT AND RECEPTACLE CIRCUITS OVER 75 FEET FROM PANEL TO LAST OUTLET FOR 20A, 120V BRANCH CIRCUITS SHALL USE 10 AWG CONDUCTORS.

C. FLEXIBLE METAL CONDUIT: USE FLEXIBLE METAL CONDUIT IN LIEU OF EMT WHERE VIBRATING CONDITIONS EXIST BETWEEN CONNECTIONS AND TERMINAL POINTS. ALL FITTINGS USED MUST BE SPECIFICALLY DESIGNED FOR THE FLEXIBLE METAL CONDUIT. USE LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC) FOR CONNECTION OF VIBRATING EQUIPMENT OUTDOORS OR IN WET LOCATIONS.

D. OUTLET BOXES: SHALL BE MINIMUM 1 1/2" DEEP. NEMA OS 1. DESIGNED FOR THE FIXTURE OR DEVICE MOUNTING. BOXES SHALL BE GALVANIZED STEEL. BOXES SHALL BE FURNISHED WITH PLATES, ADAPTERS, CONNECTORS, ETC AS REQUIRED. SECURELY MOUNT ALL BOXES FLUSH IN FINISHED WALL AND CEILING, MANUFACTURERS: STEEL CITY, RAGO, GROUSE HINDS OR APPROVED EQUAL.

2. SAFETY SWITCHES

ALL SWITCHES SHALL BE HEAVY DUTY TYPE, IN NEMA-IR FOR INDOOR AND NEMA-3R FOR OUTDOORS LOCATIONS. FUSED SWITCHES SHALL BE PROVIDED WITH CURRENT LIMITING RK-1 OR RK-5 FUSES. PROVIDE DUAL ELEMENT TIME DELAY TYPE FOR MOTOR LOADS. FUSE RATING SHALL BE SELECTED TO MATCH THE RECOMMENDATIONS OF MANUFACTURER, FOR THE SERVED EQUIPMENT.

3. STRAIGHT BLADE RECEPTACLES:

A. COMMERCIAL SPECIFICATION GRADE CONVENIENCE RECEPTACLES, 125V, 20A; COMPLY WITH NEMA WD1, NEMA WD6, CONFIGURATION 5-20R, AND UL498.

B. DEVICES COLOR: AS SELECTED BY ARCHITECT OR OWNER REPRESENTATIVE.

4. TOGGLE SWITCHES:

I. SWITCHES, 120/277V, 20A. II. COMPLY WITH NEMA WDI AND UL20.

5. WALL SWITCH OCCUPANCY SENSOR, PASSIVE INFRARED

I. SWITCHBOX-MOUNTED, COMBINATION, LIGHTING-CONTROL SENSOR AND CONVENTIONAL SWITCH LIGHTING-CONTROL UNIT USING PASSIVE INFRARED TECHNOLOGY. HARD WIRED CONNECTION RATED 10A AT 120-VAC, ADJUSTABLE TIME DELAY OF 10 MINUTES. ABLE TO BE LOCKED TO AUTOMATIC-ON MODE. COMPLY WITH NEMA WD 1, UL 20, AND FS 14-5-046.

6. COMMUNICATION CABLING

A. UTP CABLE: 100-OHM, FOUR PAIR UTP WITH A BLUE THERMOPLASTIC JACKET. COMPLY WITH TIA/EIA-568-B.2, CATEGORY 5E OR HIGHER.

B. JACKS: 100-OHM, BALANCED, TWISTED PAIR CONNECTOR: FOUR PAIR, EIGHT POSITION MODULAR. COMPLY WITH TIA/EIA-568-B.1. STAINLESS STEEL FACE PLATE. TWO PORT-CONNECTOR ASSEMBLIES MOUNTED IN SINGLE FACEPLATE

7. LIGHTING FIXTURES

A. PROVIDE LIGHTING FIXTURES AS SPECIFIED ON LIGHTING FIXTURES SCHEDULE.

B. LED LUMINAIRE REQUIREMENTS: ENERGY STAR CERTIFIED, RECESSED LUMINAIRES SHALL COMPLY WITH NEMA LE 4. MINIMUM CRI OF 90. RATED LAMP LIFE OF 50,000 HOURS TO L70. LAMPS DIMMABLE FROM 100 PERCENT TO 0 PERCENT OF MAXIMUM LIGHT OUTPUT. INTERNAL DRIVER. NOMINAL OPERATING VOLTAGE, 120V, SHALL BE UL LABELED AND COMPLY WITH ALL LOCAL, STATE AND FEDERAL EFFICIENCY STANDARDS.

TJ. INSTALLATION

A. INSTALL SUSPENDED LUMINAIRES AND EXIT LUMINAIRE SIGNS USING PENDANTS SUPPORTED FROM SWIVEL HANGERS, AS APPLICABLE, OR WIRE ROPE FROM CEILING STRUCTURE, AS APPLICABLE, OR IN ACCORDANCE WITH DETAILS SHOWN ON DRAWINGS. PROVIDE PENDANT/WIRE ROPE LENGTH REQUIRED TO SUSPEND LUMINAIRE AT INDICATED HEIGHT.

B. SUPPORT GRID MOUNTED, RECESSED FLUORESCENT FIXTURES AT EACH CORNER USING A MINIMUM OF FOUR WIRE HANGERS OF SAME GAUGE AS CEILING SUSPENSION SYSTEM SUPPORTED FROM BUILDING STRUCTURE INDEPENDENT OF CEILING FRAMING.

C. INSTALL SURFACE MOUNTED LUMINAIRES AND EXIT LUMINAIRE SIGNS FLUSH AND ADJUST TO ALIGN WITH BUILDING LINES AND WITH EACH OTHER. SECURE TO PREVENT MOVEMENT. MOUNT EXIT SIGNS TO OUTLET BOX MOUNTED FLUSH IN WALL OR CEILING. OUTLET BOX FOR CEILING MOUNTED EXIT SIGNS; CONNECT TO RIGID CONDUIT SYSTEM.

D. INSTALL WALL MOUNTED LUMINAIRES, EMERGENCY LIGHTING UNITS AND EXIT LUMINAIRE SIGNS AT HEIGHT AS SCHEDULED.

E. INSTALL ACCESSORIES FURNISHED WITH EACH LUMINAIRE.

F. BOND PRODUCTS AND METAL ACCESSORIES TO BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.

G. INSTALL SPECIFIED LAMPS IN EACH EMERGENCY LIGHTING UNIT, EXIT LUMINAIRE SIGN, AND LUMINAIRE.

8. PANELBOARDS

A. ALL PANELBOARDS SHALL COMPLY WITH NEMA PB 1 WITH STANDARD GRAY ENAMEL FINISH. PROVIDE COPPER BUSBARS WITH RATINGS AS INDICATED ON DRAWINGS. PROVIDE COPPER GROUND BUS. PROVIDE BOLT-ON NEMA AB 1 COMPLIANT CIRCUIT BREAKERS. PROVIDE TYPED DIRECTORY AND FILLER PLATES FOR SPACES.

B. BRANCH OVERCURRENT PROTECTIVE DEVICES: MOLDED-CASE, THERMAL- MAGNETIC, BOLT-ON CIRCUIT BREAKERS, UL 484, WITH INTERRUPTING CAPACITY TO MEET AVAILABLE FAULT CURRENTS.

C. IDENTIFICATION: ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL. ADHESIVE BACKED, WITH WHITE LETTERS ON A DARK-GRAY BACKGROUND. MINIMUM LETTER HEIGHT SHALL BE 3/8 INCH. 8. EQUIPMENT TO BE LABELED: PANEL BOARDS, ELEC. CABINETS, PULL BOXES, DISC. SWITCHES AND ENCLOSURES.

D. PROVIDE CIRCUIT BREAKERS FOR HVAC EQUIPMENT HAVING MOTORS (GROUP OR INDIVIDUAL) MARKED FOR USE WITH HACR TYPE AND UL LISTED AS HACR TYPE.

E. EXECUTION

1. INTERRUPTION OF EXISTING ELECTRIC SERVICE: DO NOT INTERRUPT ELECTRIC SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY ELECTRIC SERVICE ACCORDING TO REQUIREMENTS INDICATED:

- NOTIFY OWNER NO FEWER THAN SEVEN DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF ELECTRIC SERVICE.
- DO NOT PROCEED WITH INTERRUPTION OF ELECTRIC SERVICE WITHOUT OWNER'S WRITTEN PERMISSION.
- COMPLY WITH NFPA 70E.

2. UPON COMPLETION OF THE WORK, ALL EQUIPMENT SHALL BE THOROUGHLY CLEANED AND LEFT IN FIRST-CLASS OPERATING CONDITION.

3. PROTECT ALL EQUIPMENT PROVIDED UNTIL THE FINAL ACCEPTANCE OF THE JOB.

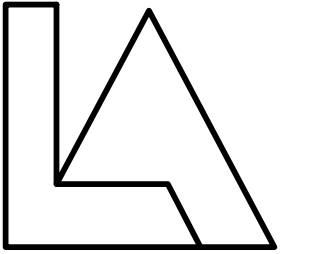
4. TEST AND INSPECTION

- AT THE TIME OF FINAL INSPECTION AND TEST, ALL CONNECTIONS TO PANELBOARDS AND EQUIPMENT CONNECTED MUST TEST FREE OF SHORT CIRCUITS AND GROUND.
- CORRECT ANY EQUIPMENT OR SYSTEMS THAT DO NOT TEST SATISFACTORILY.
- WARRANTY: GUARANTEE ENTIRE ELECTRICAL INSTALLATION (LABOR AND MATERIAL) FOR ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY OWNER REPRESENTATIVE.



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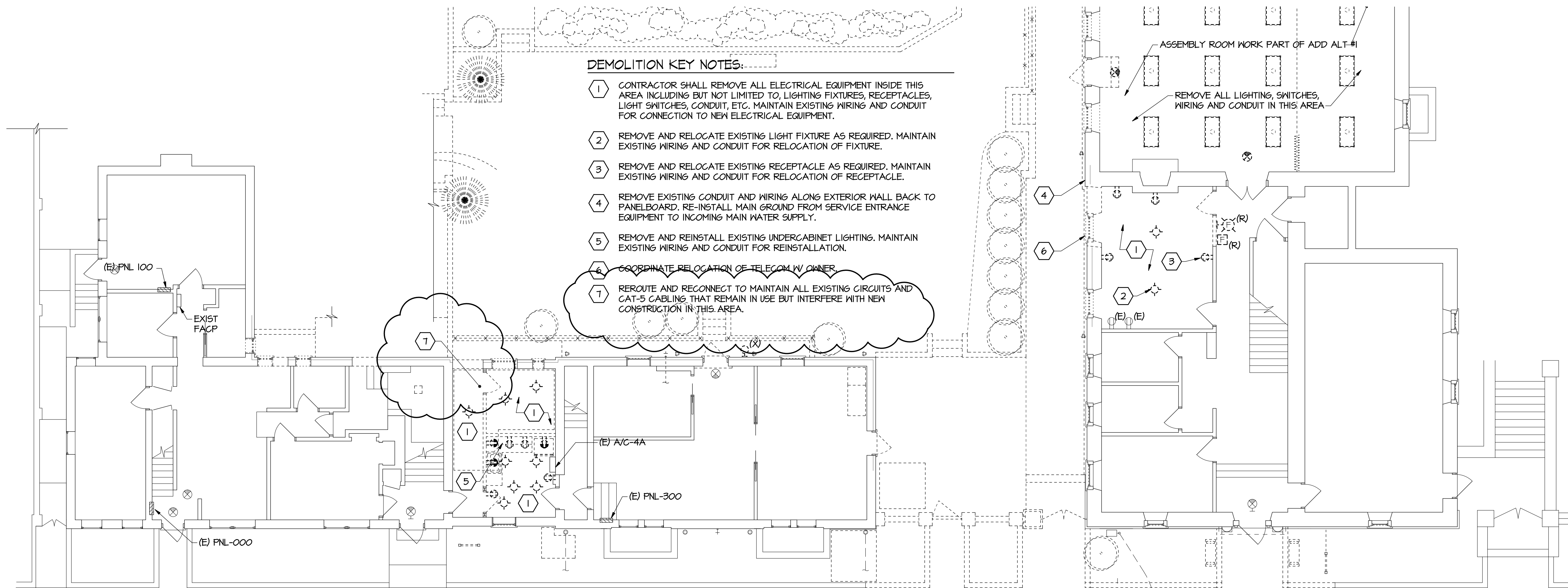
DRAWING TITLE

**ELECTRICAL
COVER SHEET**

DRAWING NUMBER

10001

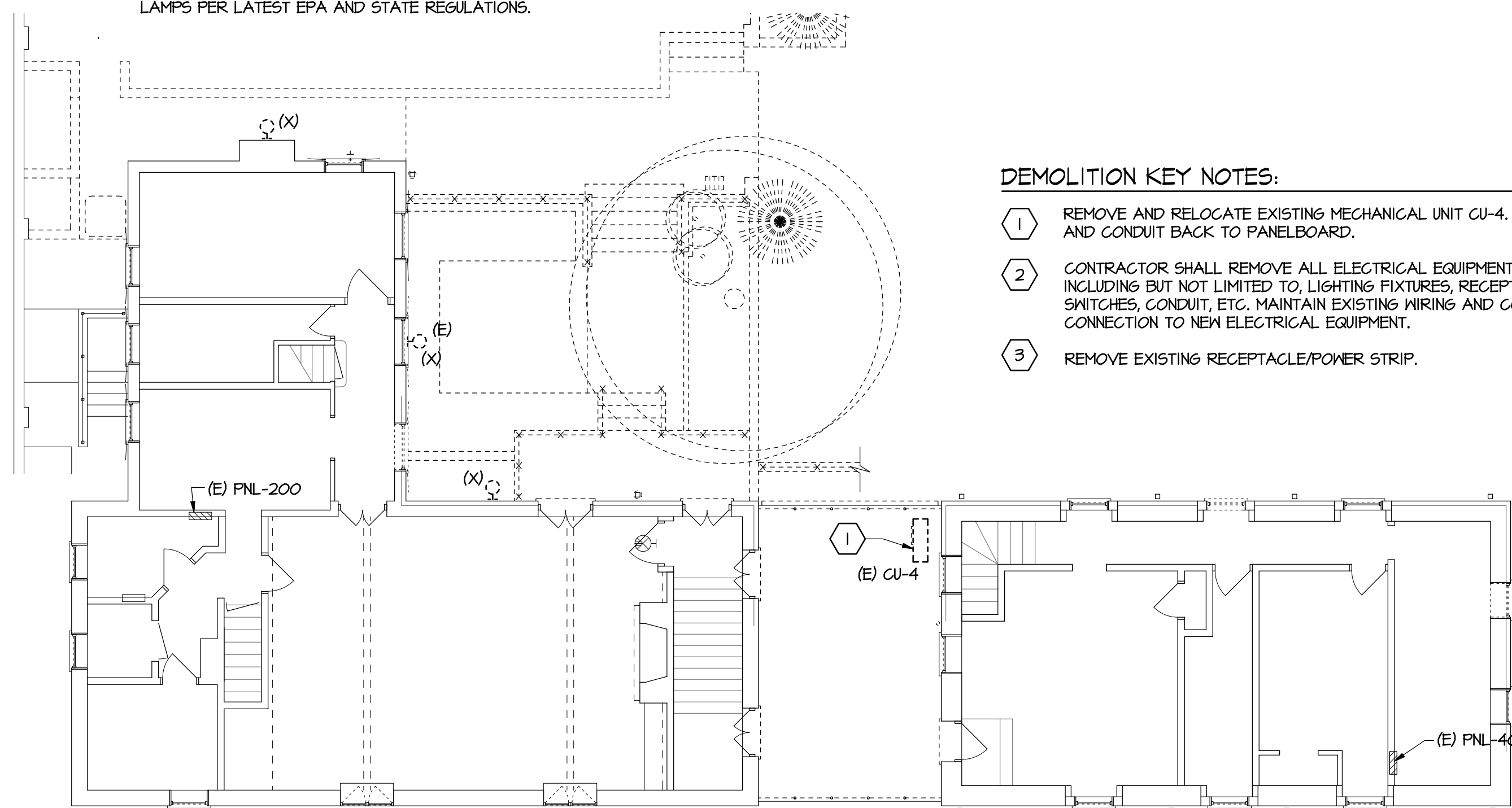
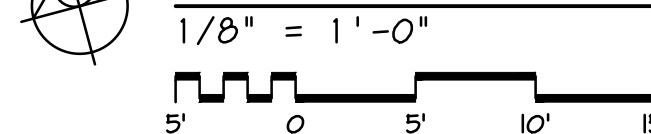
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 FILE: GA010101



GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT IN AREAS OF WORK AND ALONG EXISTING EXTERIOR WALLS INCLUDING BUT NOT LIMITED TO, LIGHTING FIXTURES, RECEPTACLES, LIGHT SWITCHES, CONDUIT, ETC. AS DIRECTED BY OWNER. REMOVE WIRING AND CONDUIT BACK TO PANELBOARD.
2. CONDUIT IN INACCESSIBLE AREAS SHALL BE CUT OFF BEHIND FINISHED SURFACES AND EXISTING SURFACE PATCHED TO MATCH EXISTING.
3. PROVIDE BLANK PLATES ON EXISTING FLUSH MOUNTED OUTLET BOXES THAT WILL BE ABANDONED.
4. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL FLUORESCENT LAMPS PER LATEST EPA AND STATE REGULATIONS.

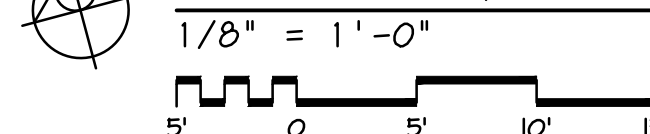
GROUND LEVEL DEMOLITION PLAN



DEMOLITION KEY NOTES:

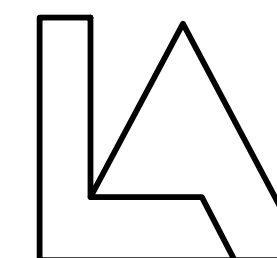
1. REMOVE AND RELOCATE EXISTING MECHANICAL UNIT CU-4. REMOVE WIRING AND CONDUIT BACK TO PANELBOARD.
2. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT INSIDE THIS AREA INCLUDING BUT NOT LIMITED TO, LIGHTING FIXTURES, RECEPTACLES, LIGHT SWITCHES, CONDUIT, ETC. MAINTAIN EXISTING WIRING AND CONDUIT FOR CONNECTION TO NEW ELECTRICAL EQUIPMENT.
3. REMOVE EXISTING RECEPTACLE/POWER STRIP.

MEETING LEVEL DEMOLITION PLAN



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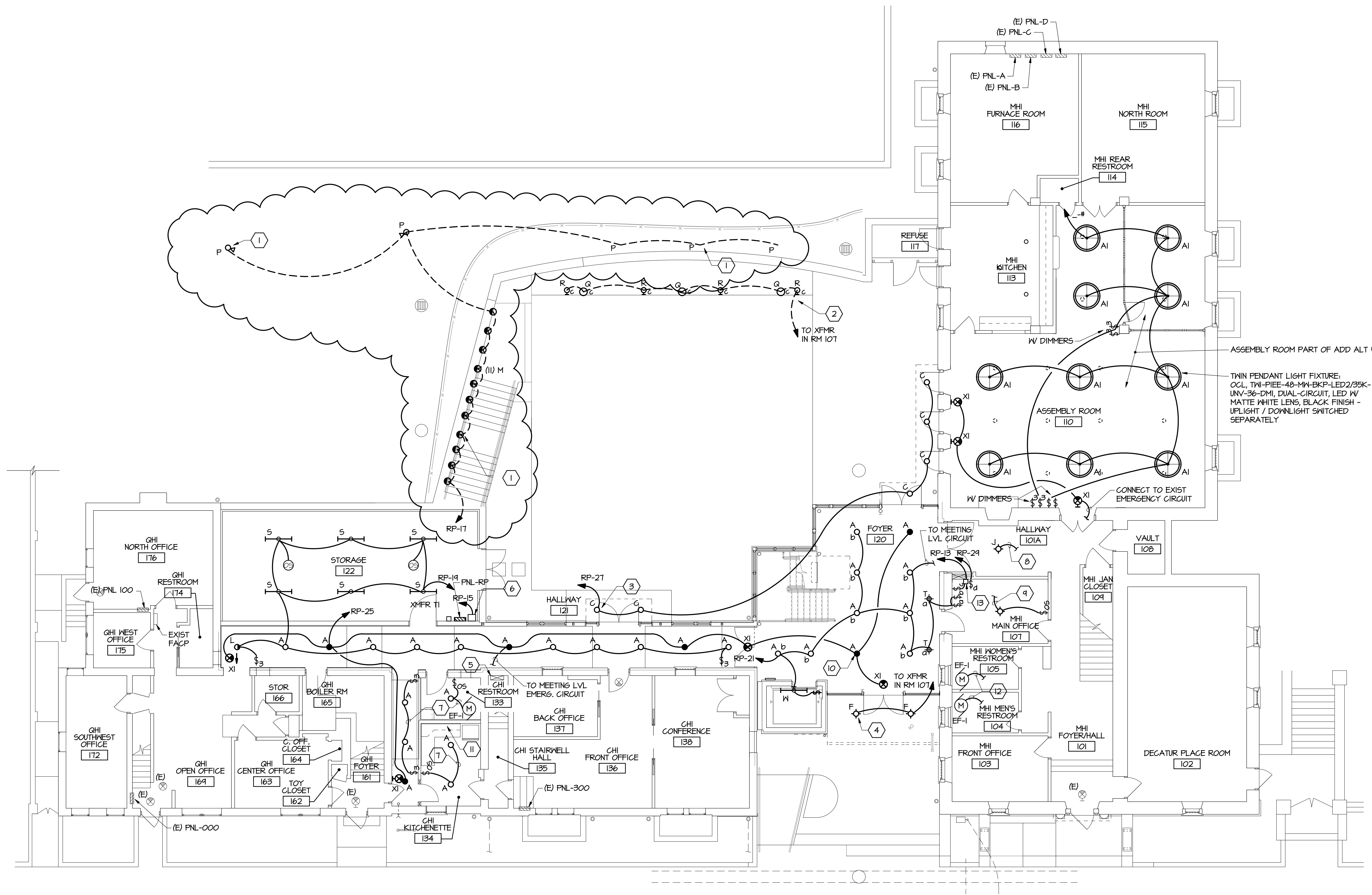
DATE 12-1-2017 BID SET

DRAWING TITLE

**ELECTRICAL
DEMOLITIONS PLANS**

DRAWING NUMBER

E101



LIGHTING KEY NOTES:

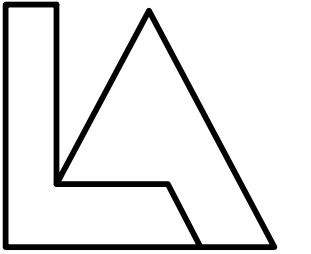
- | | |
|--|--|
| <p>① OUTDOOR STAIR LIGHT FIXTURES (TYPE M) AND TREE FIXTURES (TYPE P) TO BE CONTROLLED WITH PHOTOCELL "ON" / TIMECLOCK "OFF". COORDINATE LOCATION OF EQUIPMENT.</p> <p>② LANDSCAPE AND WALL LIGHTING FIXTURES (TYPE R, Q) TO BE CONTROLLED BY LIGHT SWITCH "C" IN RM 107.</p> <p>③ CANOPY LIGHTING FIXTURES (TYPE C) TO BE CONTROLLED WITH PHOTOCELL "ON" / TIMECLOCK "OFF". COORDINATE LOCATION OF EQUIPMENT.</p> <p>④ FRONT ENTRANCE LIGHTING FIXTURES (TYPE F) TO BE CONTROLLED WITH PHOTOCELL "ON/OFF". COORDINATE LOCATION.</p> <p>⑤ AREA TO RUN CONDUIT FROM GROUND LEVEL TO MEETING LEVEL.</p> <p>⑥ REMOTE TRANSFORMER: FULLY ENCAPSULATED, CLASS B INSULATED, 0.06KVA, 120V PRIMARY TO 12V SECONDARY. BASIS OF DESIGN: B-K LIGHTING TR60-120. CONTRACTOR TO COORDINATE LOCATION AND SIZE LOW VOLTAGE WIRING TO FIXTURES WITH NO VOLTAGE DROP.</p> <p>⑦ CIRCUIT TO NEAREST LIGHTING CIRCUIT. EXTEND WITH 2 #12 + 1 #12 GND IN 3/4" C.</p> | <p>⑧ CIRCUIT TO NEAREST EMERG. LIGHTING CIRCUIT. EXTEND WITH 2 #12 + 1 #12 GND IN 3/4" C.</p> <p>⑨ RELOCATE EXISTING LIGHT FIXTURE AS REQUIRED. CIRCUIT TO NEAREST LIGHTING CIRCUIT. EXTEND WITH 2 #12 + 1 #12 GND IN 3/4" C. PROVIDE 3-WAY SWITCH ON EITHER SIDE OF ROOM FOR CONTROL.</p> <p>⑩ FOR BATTERY BACKUP CONNECT EMERGENCY LIGHT FIXTURES (TYPE A, B) TO 250W, 120V MINI INVERTER LOCATED IN RM 122. BASIS OF DESIGN: ISOLITE IMI-25-LG-VI. COORDINATE LOCATION.</p> <p>⑪ REINSTALL EXISTING UNDERCABINET LIGHTING. CIRCUIT TO EXISTING LIGHTING CIRCUIT. EXTEND WITH 2 #12 + 1 #12 GND IN 3/4" C.</p> <p>⑫ CIRCUIT TO EXISTING LIGHT SWITCH.</p> <p>⑬ REMOTE TRANSFORMER: FULLY ENCAPSULATED, CLASS B INSULATED, 0.06KVA, 120V PRIMARY TO 12V SECONDARY. BASIS OF DESIGN: B-K LIGHTING TR60-120. CONTRACTOR TO COORDINATE LOCATION AND SIZE LOW VOLTAGE WIRING TO FIXTURES WITH NO VOLTAGE DROP. FOR BATTERY BACKUP CONNECT EMERGENCY LIGHT FIXTURES (TYPE F) TO 32W, 120V MINI INVERTER LOCATED IN RM 107. BASIS OF DESIGN: LIGHTARMS LMILC-32. COORDINATE LOCATION.</p> |
|--|--|

GROUND LEVEL LIGHTING PLAN
 1/8" = 1'-0"
 5' 0' 5' 10' 15'



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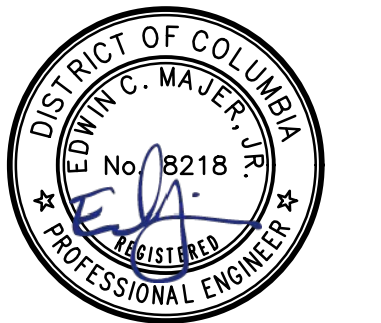


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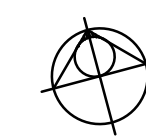
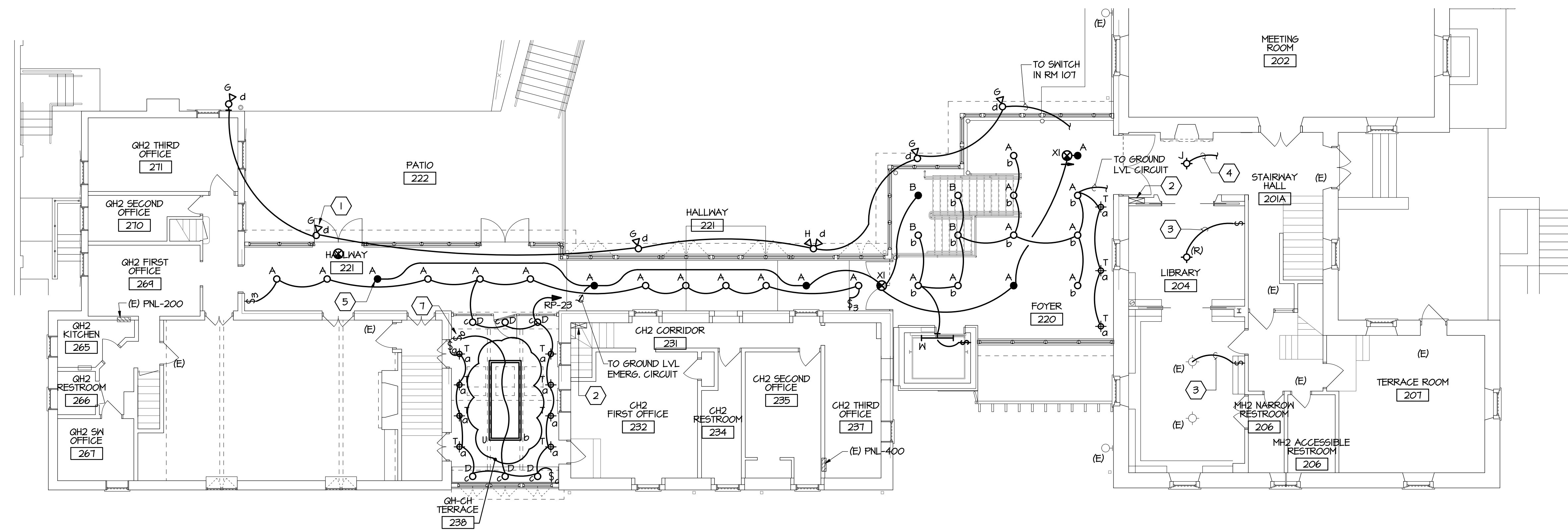
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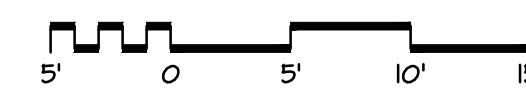
DRAWING TITLE
ELECTRICAL
**GROUND LEVEL
 LIGHTING PLAN**

DRAWING NUMBER
E102



MEETING LEVEL LIGHTING PLAN

1/8" = 1'-0"



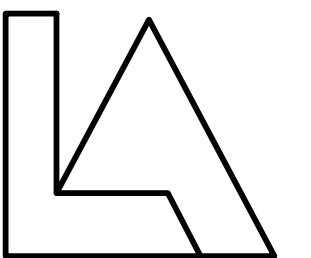
LIGHTING KEY NOTES:

- ① OUTDOOR LIGHT FIXTURES (TYPE G) TO BE CONTROLLED BY LIGHT SWITCH "d" IN RM 107.
- ② AREA TO RUN CONDUIT FROM GROUND LEVEL TO MEETING LEVEL. RUN CONDUIT IN EXISTING WALL.
- ③ CIRCUIT FIXTURES TO LIGHT SWITCH FOR CONTROL.
- ④ CIRCUIT TO NEAREST EMERG. LIGHTING CIRCUIT. EXTEND WITH 2 #12 + 1 #12 GND IN 3/4" C.
- ⑤ FOR BATTERY BACKUP CONNECT EMERGENCY LIGHT FIXTURES (TYPE A, B) TO 250W, 120V MINI INVERTER LOCATED IN RM 122. BASIS OF DESIGN: ISOLITE IMI-25-LG-V1. COORDINATE LOCATION.
- ⑥ LOCATE LIGHT SWITCH FOR ELEVATOR MANUFACTURER
- ⑦ PROVIDE DIMMING LIGHT SWITCH FOR CONTROL OF FIXTURE.



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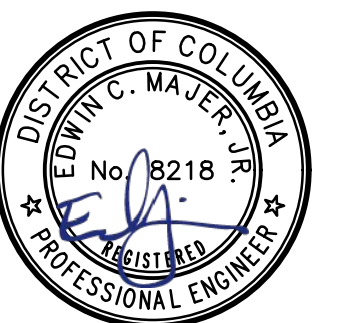


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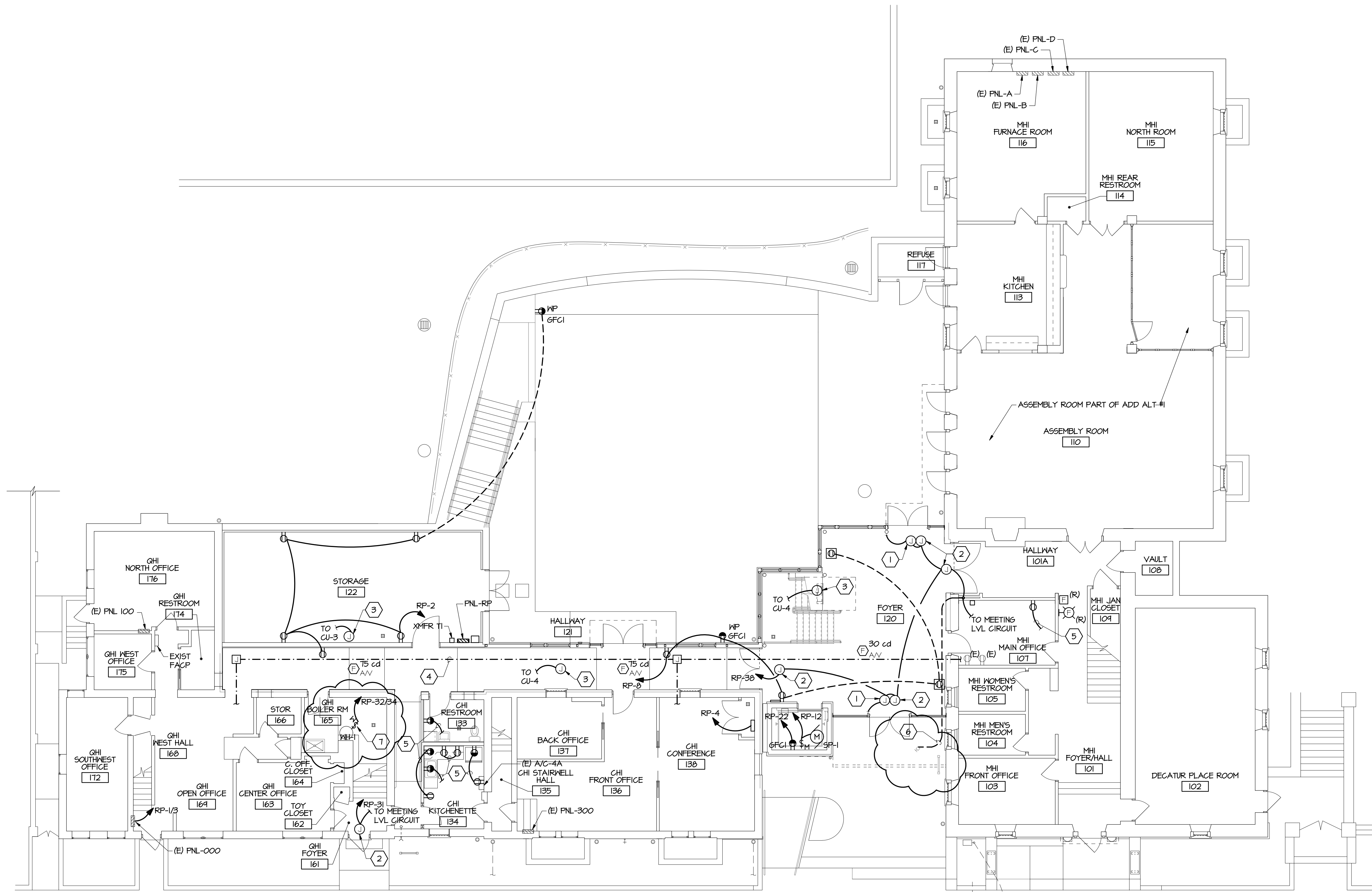
DATE 12-1-2017 BID SET

DRAWING TITLE

ELECTRICAL
MEETING LEVEL
LIGHTING PLAN

DRAWING NUMBER

E103

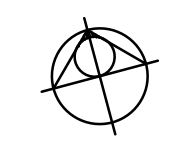


GENERAL POWER NOTES:

1. PROVIDE WHILE-IN-USE COVER FOR ALL EXTERIOR GFCI RECEPTACLES.
2. MOUNT RECEPTACLES 6" ABOVE COUNTERTOPS (TYPICAL).

POWER KEY NOTES:

1. AUTOMATIC DOOR OPERATOR, 120V, 1-PHASE. MAKE CONNECTION TO UNIT IN ACCORDANCE WITH SYSTEM MANUFACTURER RECOMMENDATIONS.
2. PROVIDE ABOVE CEILING JUNCTION BOX FOR DOOR POWER CONNECTION. COORDINATE CONNECTION OF DOOR OPERATORS TO ACCESS CONTROL SYSTEM IN ACCORDANCE WITH SYSTEM MANUFACTURER RECOMMENDATIONS.
3. PROVIDE ABOVE CEILING JUNCTION BOX FOR POWER CONNECTION TO MECHANICAL UNIT. PROVIDE SINGLE-POLE TOGGLE MOTOR RATED DISCONNECT SWITCH.
4. PROVIDE 2" EMPTY CONDUIT ABOVE CEILING ADJACENT TO EXTERIOR WALL.
5. CIRCUIT TO NEAREST POWER CIRCUIT. EXTEND WITH 2 #12 + 1 #12 GND IN 3/4" C.
6. CONNECT TO DOOR ACCESS CONTROL SYSTEM (PEDESTAL W/ INTERCOM).
7. PROVIDE MOTOR RATED DISCONNECT SWITCH AT UNIT FOR CONNECTION TO WATER HEATER.



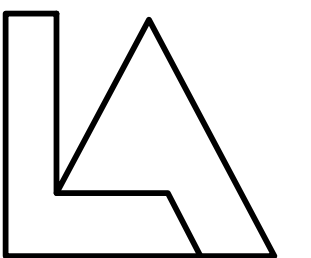
GROUND LEVEL POWER AND FIRE ALARM PLAN

1/8" = 1'-0"
 5' 0' 5' 10' 15'



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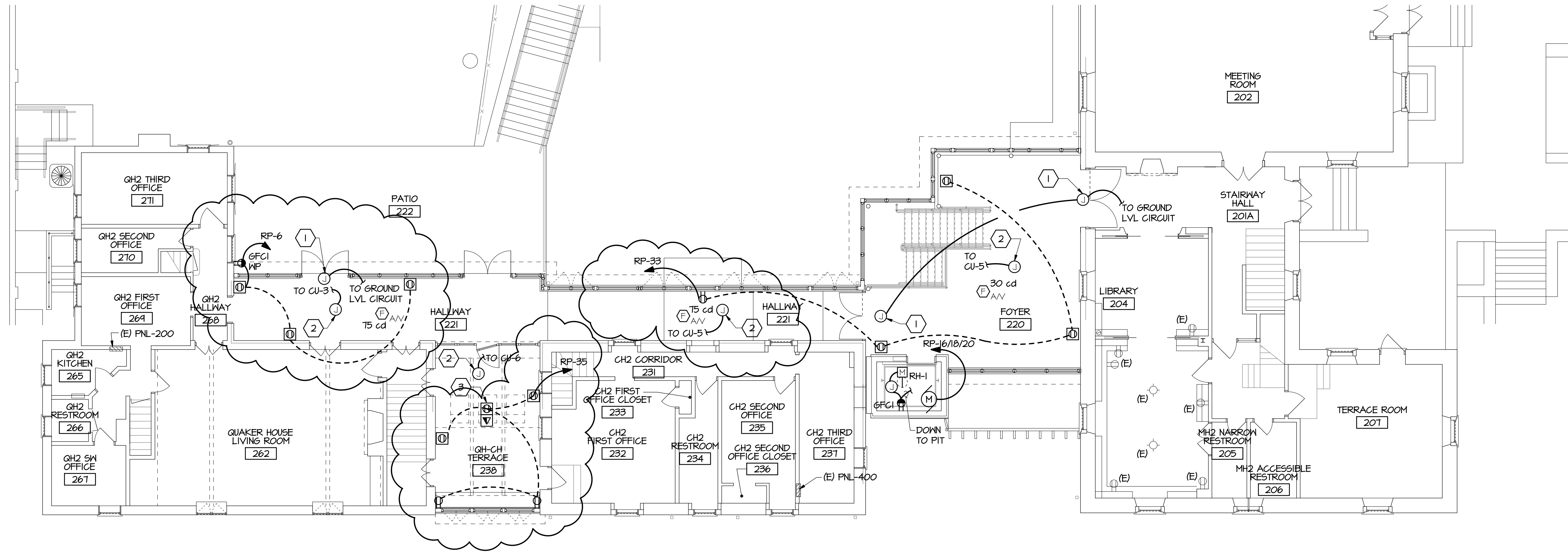
ELECTRICAL

GROUND LEVEL POWER
AND FIRE ALARM PLAN

DRAWING NUMBER

E104

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

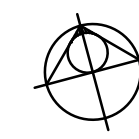


GENERAL POWER NOTES:

1. PROVIDE WHILE-IN-USE COVER FOR ALL EXTERIOR GFCI RECEPTACLES.
2. MOUNT RECEPTACLES 6" ABOVE COUNTERTOPS (TYPICAL).

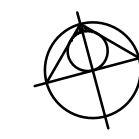
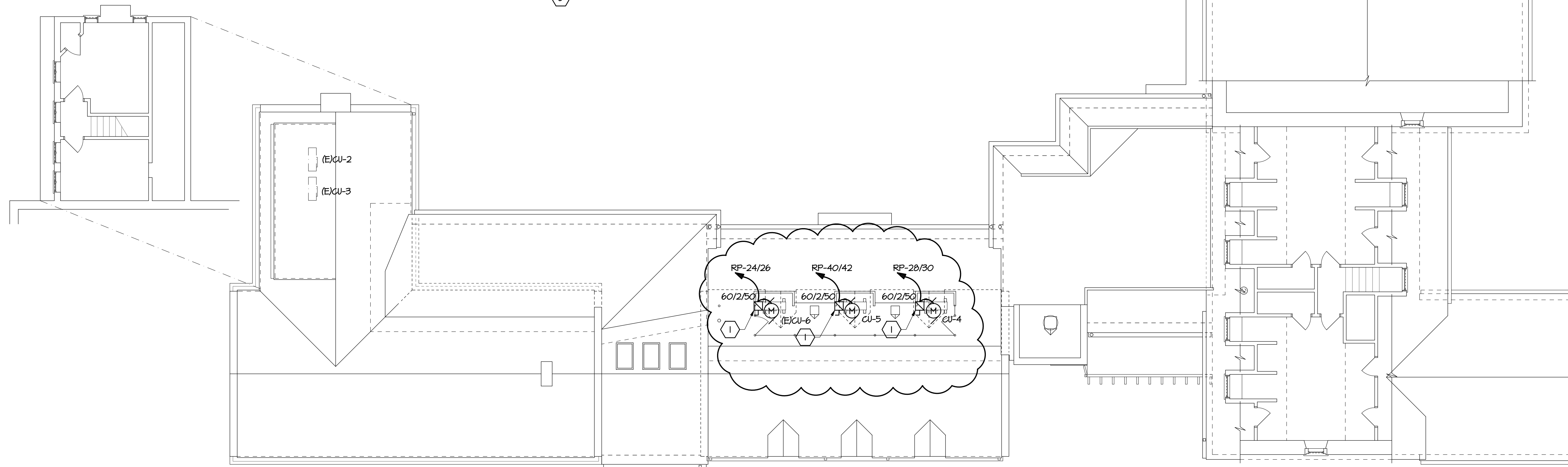
POWER KEY NOTES:

1. PROVIDE ABOVE CEILING JUNCTION BOX FOR DOOR POWER CONNECTION. COORDINATE CONNECTION OF DOOR OPERATORS TO ACCESS CONTROL SYSTEM IN ACCORDANCE WITH SYSTEM MANUFACTURER RECOMMENDATIONS.
2. PROVIDE ABOVE CEILING JUNCTION BOX FOR POWER CONNECTION TO MECHANICAL UNIT. PROVIDE SINGLE-POLE TOGGLE MOTOR RATED DISCONNECT SWITCH.
3. PROVIDE RECESSED FLOOR BOX WITH DUPLEX RECEPTACLE AND TELECOMMUNICATION OUTLET.



MEETING LEVEL POWER AND FIRE ALARM PLAN

1/8" = 1'-0"
 5' 0' 5' 10' 15'



ROOF LEVEL POWER & FIRE ALARM PLANS

1/8" = 1'-0"
 5' 0' 5' 10' 15'

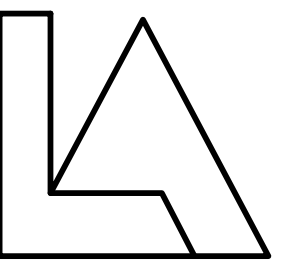
POWER KEY NOTES:

1. PROVIDE NEMA 3R, HEAVY DUTY 60A, 2-POLE DISCONNECT SWITCH FUSED AT 50A.



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DRAWING TITLE

ELECTRICAL

MEETING & ROOF LEVEL
 POWER & FIRE ALARM
 PLANS

DRAWING NUMBER

E105

FILE NAME: EHO1A

WIRE AND CONDUIT SIZE	CIRCUIT DESCRIPTION	C/B	LOADS (kVA)			C/K T	CIRCUIT DESCRIPTION	WIRE AND CONDUIT SIZE
			Φ A	Φ B	Φ C			
5	XFMR - PNL 000	150	11.4	1.2		20	RM 122 RECEPT	1
		2				20	SUMP PUMP CNTRL PNL	1
1	EXIST. CIRCUIT 002L PNL-000	20			1.2	20	HALLWAY 221 RECEPT	2
1	EXIST. CIRCUIT 020 PNL-000	20	0.4		0.8	6	HALLWAY RECEPT	1
1	EXIST. CIRCUIT 018 PNL-000	20		0.4		8	SPARE	1
1	EXIST. CIRCUIT 002R PNL-000	20			0.8	10	ELEVATOR SUMP PUMP	2
2	XFMR - OUTDOOR WALL LTS	20		0.2		12	ELEVATOR CAB LIGHTS	1
1	XFMR - OUTDOOR STAIRS LTS	20		0.1		14		
2	OUTDOOR STAIR/TREE LIGHTING	20		2.0		16	ELEVATOR	2
2	RM 122, 121 LIGHTS	20	0.4	2.0		18		
2	FOYER 120, 220 LTS ELEV. LTS	20	0.5	0.6		20	ELEV PIT RECEPT	1
2	RM 221 & 238 LTS	20			0.8	22		
2	EMERGENCY LIGHTS	20	0.3	3.1		24	CJ-6	3
1	CANOPY LIGHTS	20		0.1		26		
2	OUTDOOR - MTG LVL LTS	20		3.3		28	CJ-4	3
1	AUTO DOOR OPERATORS	20	0.1	1.5		30	WH-1	2
2	RECEPT HALLWAY 221	20		0.8		32		
1	RECEPTS RM 238	20		1.5		34	SPARE	2
	SPARE	20		0.6		36	AUTO DOOR OPERATORS	2
	SPARE	20		3.5		38		
	SPARE	20				40	CJ-5	3
	SPARE	20				42		
TOTAL KILOVOLT-AMPERES			22.3	24.9	17.8			
TOTAL CONNECTED LOAD:			65 kVA x 1000 ÷ √3(208) = 180 A					
LOAD	CONNECTED KVA	DEMAND FACTOR	COMPUTED KVA	REMARKS				
LIGHTING	5.5	1.25	6.88	CONTINUOUS				
RECEPTACLES	3.8	1	3.8	NON-CONTINUOUS				
MOTORS	27.7	1.0	27.7	NON-CONTINUOUS				
OTHER	27.4	1.0	27.4	NON-CONTINUOUS				
TOTAL	64.4		66.28					
MINIMUM FEEDER AMPACITY:			64.74 kVA** x 1000 ÷ √3(208) = 194 A					

FILE NAME: EHO1A

WIRE AND CONDUIT SIZE	CIRCUIT DESCRIPTION	C/B	LOADS (kVA)			C/K T	CIRCUIT DESCRIPTION	WIRE AND CONDUIT SIZE
			Φ A	Φ B	Φ C			
E	OUTDOOR COMPRESSOR	50	3.0	0.2		15	AUTOMATIC DOOR	E
E	INDOOR UNIT	60			3.3	4	INDOOR UNIT	E
E	OUTDOOR COMPRESSOR	40		2.8	0.6	8		E
E	LIGHTING OUTDOOR	20	2.8	1.0		10	OUTDOOR COMPRESSOR	E
E	OUTLET	15			0.2	12	SPARE	E
E	INDOOR UNIT	70	3.8	3.0		14	OUTDOOR COMPRESSOR	E
5	PANEL A	100	23	0.4	0.8	16	PANEL B	5
			25	6.3	4.7	18		
			27	0.8	6.3	20		
	SPACE	3				22		
	SPACE	24				24		
	SPACE	31				26		
	SPACE	33				28		
	SPACE	35				30		
	SPACE	37				32		
	SPACE	34				34		
	SPACE	41				36		
	SPACE					38		
	SPACE					40		
	SPACE					42		
TOTAL KILOVOLT-AMPERES			24.4	21.3	13.4			
TOTAL CONNECTED LOAD:			59.1 kVA x 1000 ÷ √3(208) = 164 A					
LOAD	CONNECTED KVA	DEMAND FACTOR	COMPUTED KVA	REMARKS				
LIGHTING	0.4	1.25	0.5	CONTINUOUS				
RECEPTACLES	0.2	1	0.2	NON-CONTINUOUS				
MOTORS	22.4	1.0	22.4	NON-CONTINUOUS				
OTHER	36.1	1.0	36.1	NON-CONTINUOUS				
TOTAL	59.1		59.1					
MINIMUM FEEDER AMPACITY:			61.3 kVA** x 1000 ÷ √3(208) = 170 A					

FILE NAME: EHO1A

WIRE AND CONDUIT SIZE	CIRCUIT DESCRIPTION	C/B	LOADS (kVA)			C/K T	CIRCUIT DESCRIPTION	WIRE AND CONDUIT SIZE
			Φ A	Φ B	Φ C			
E	SPARE	50		0.4		20	DEDICATED RECEPT FRONT OFFICE	E
E	RECEPT OUTDOOR	20			0.4	20	DEDICATED RECEPT FRONT OFFICE	E
E	RECEPT OUTSIDE	20	0.4			6	DEDICATED RECEPT MAIN OFFICE	E
	SPACE	9				8	SPARE	
	SPACE	11				10	SPACE	
	SPACE	13				12	SPACE	
	SPACE	15				14	SPACE	
	SPACE	17				16	SPACE	
	SPACE	19				18	SPACE	
	SPACE	21				20	SPACE	
	SPACE	23				22	SPACE	
	SPACE	25				24	SPACE	
	SPACE	27				26	SPACE	
	SPACE	24				28	SPACE	
	SPACE	31				30	SPACE	
	SPACE	33				32	SPACE	
	SPACE	35				34	SPACE	
	SPACE	37				36	SPACE	
	SPACE	34				38	SPACE	
	SPACE	41				40	SPACE	
	SPACE					42	SPACE	
TOTAL KILOVOLT-AMPERES			0.8	0.4	0.8			
TOTAL CONNECTED LOAD:			2 kVA x 1000 ÷ √3(208) = 6 A					
LOAD	CONNECTED KVA	DEMAND FACTOR	COMPUTED KVA	REMARKS				
LIGHTING	0	1.25	0	CONTINUOUS				
RECEPTACLES	2	1	2	NON-CONTINUOUS				
MOTORS	0	1.0	0	NON-CONTINUOUS				
OTHER	0	1.0	0	NON-CONTINUOUS				
TOTAL	2		2					
MINIMUM FEEDER AMPACITY:			2 kVA** x 1000 ÷ √3(208) = 6 A					

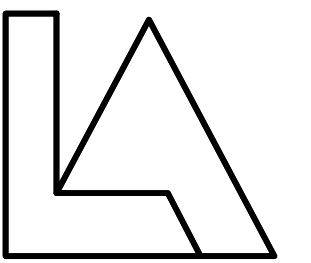
WIRING AND CONDUIT SCHEDULE

- 2#12 + #12 GND IN 3/4" C.
- 2#10 + #10 GND IN 3/4" C.
- 2#8 + #8 GND IN 1" C.
- 3#12 + #12 GND IN 3/4" C.
- SEE POWER RISER DIAGRAM.
- EXISTING WIRING AND CONDUIT.



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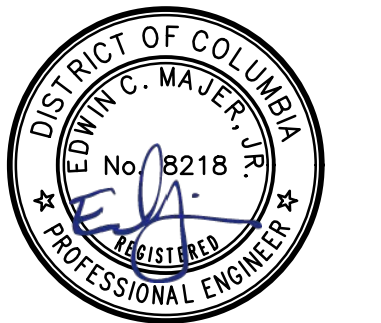
Lippincott Architects www.lippincottarchitects.com

PROJECT TITLE

FRIENDS MEETING OF WASHINGTON

ACCESSIBILITY LINK

2111 FLORIDA AVENUE NW WASHINGTON, DC



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REVISIONS

NO.	DATE	DESCRIPTION
5-4-2018		CONSTRUCTION SET

DRAWN ACO

CHECKED NM

DATE 12-1-2017 BID SET

DRAWING TITLE

ELECTRICAL PANEL SCHEDULES & DIAGRAMS

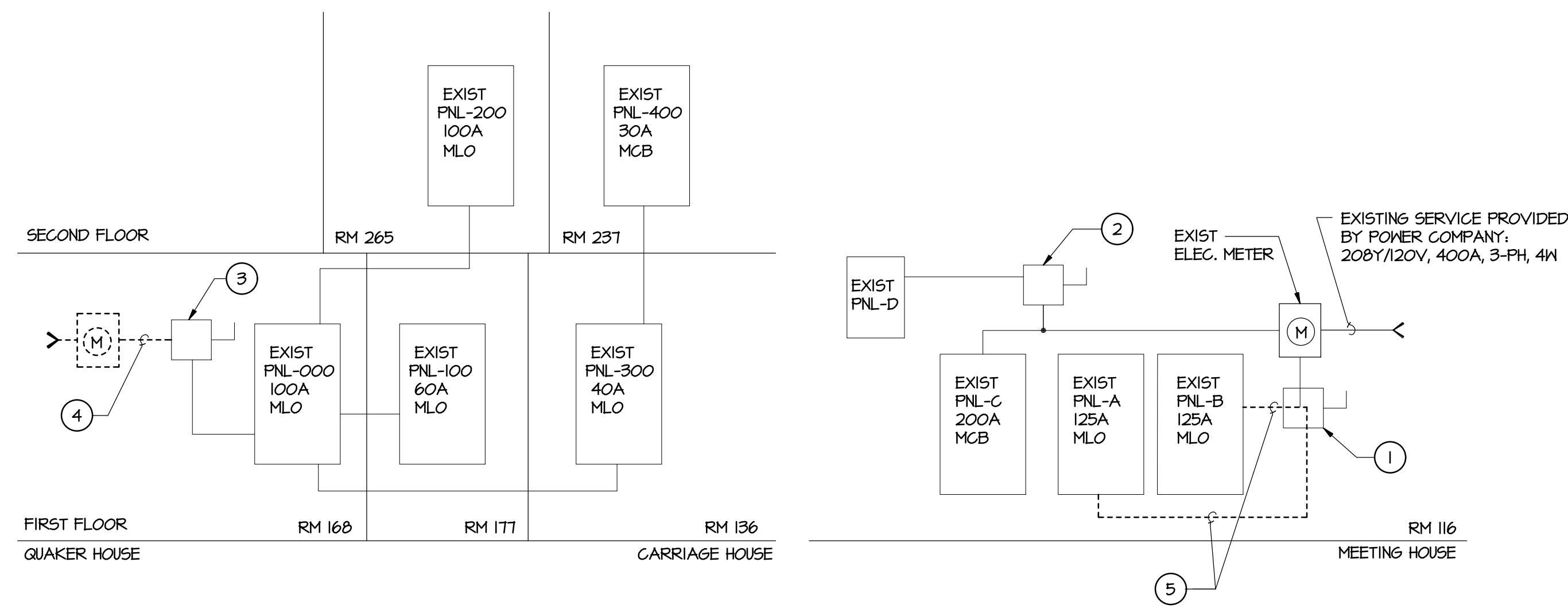
DRAWING NUMBER

E601

GENERAL PANELBOARD NOTE:

EXISTING PANELBOARD DIRECTORIES ARE PROVIDED FROM AVAILABLE PANELBOARD SCHEDULES. ACTUAL BRANCH CIRCUIT NOMINATIONS MAY VARY. CONTRACTOR SHALL VERIFY EXISTING BRANCH CIRCUITS AS NEEDED. UPDATE PANELBOARD BRANCH CIRCUIT DIRECTORIES TO REFLECT WORK DONE AS PART OF THIS PROJECT.

- * BASED ON NEC 220-44. (100% OF LOAD UP TO 10 KVA, PLUS 50% OF LOAD ABOVE 10 KVA)
- ** BASED ON NEC 215, 220, AND 430: (COMPUTED LIGHTING KVA x 125%), + (COMPUTED RECEPTACLE KVA x 100%), + (LARGEST MOTOR KVA x 125%), + (OTHER MOTOR KVA x 100%), + (COMPUTED OTHER LOADS x 100%).

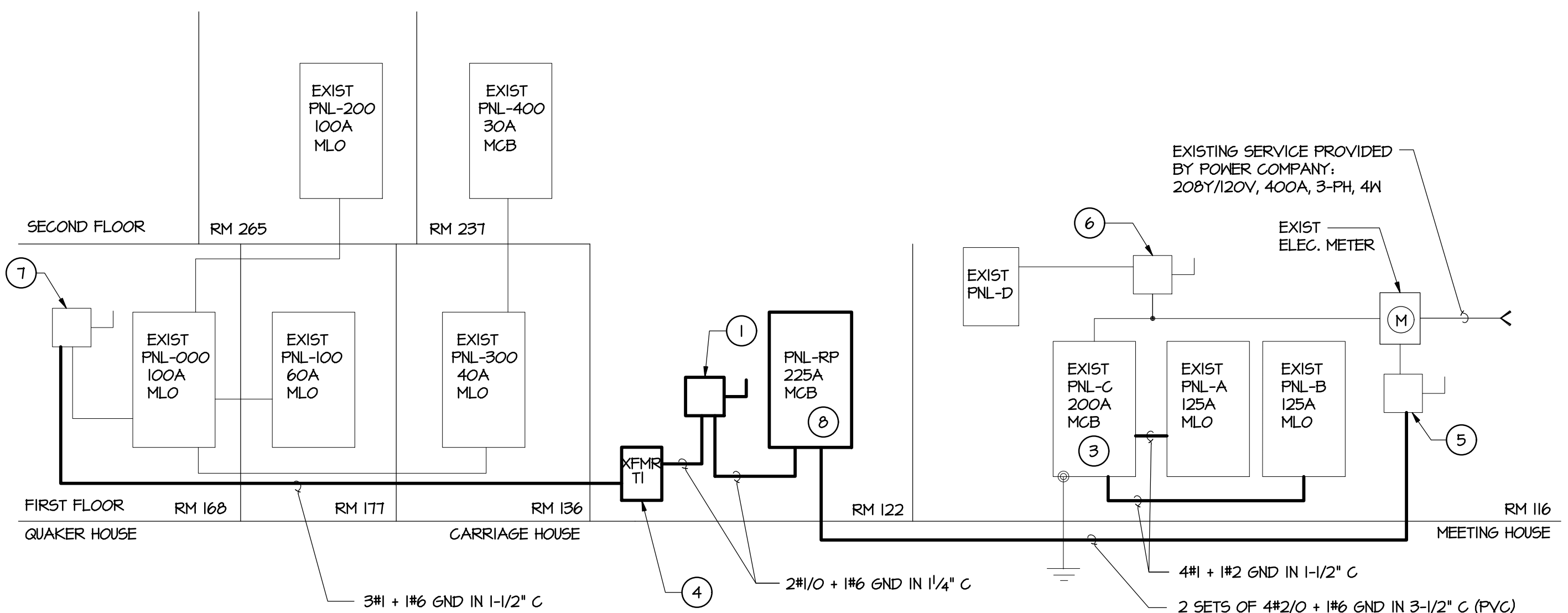


DEMOLITION POWER RISER DIAGRAM

NOT TO SCALE

RISER DIAGRAM NOTES:

- EXISTING 200AMP FUSED DISCONNECT SWITCH.
- EXISTING 35AMP FUSED DISCONNECT SWITCH.
- EXISTING 110AMP FUSED DISCONNECT SWITCH.
- DISCONNECT SERVICE FROM EXISTING ELEC. METER. COORDINATE THIS WORK WITH THE POWER COMPANY.
- DISCONNECT AND REMOVE EXISTING FEEDER AND CONDUIT.



MODIFIED POWER RISER DIAGRAM

NOT TO SCALE

POWER RISER DIAGRAM NOTES:

- 200AMP, 2-POLE NON-FUSED DISCONNECT SAFETY SWITCH.
- NOT USED.
- PROVIDE (2) 100A, 3-POLE BREAKERS IN PNL-C TO FEED PANELS PNL-A & PNL-B WITH 4#1 + #2 GND IN 1-1/2" C
- ENCAPSULATED, DRY-TYPE TRANSFORMER 5T-20: 37.5KVA, 208V, 1-PHASE PRIMARY, 240/120 VOLT, 1-PHASE, 3-WIRE SECONDARY.
- EXISTING 200AMP FUSED DISCONNECT SWITCH.
- EXISTING 35AMP FUSED DISCONNECT SWITCH.
- EXISTING 110AMP FUSED DISCONNECT SWITCH.
- PANELBOARD-RP, 200A MCB, 208Y/120 VAC. SEE PANEL SCHEDULE.

FILE NAME: EHOIA

LOCATION: RM 116
TYPE: PRLIA
MOUNTING: SURFACE

PANEL B
(EXISTING)

VOLTAGE: 208Y/120V, 3Ø, 4W
125 A MLO
10 KAIG

WIRE AND CONDUIT SIZE	CIRCUIT DESCRIPTION	C/B	LOADS (kVA)			C/T	CIRCUIT DESCRIPTION	WIRE AND CONDUIT SIZE
			Φ A	Φ B	Φ C			
E	RECEPT	20/1	0.6			2	OUTDOOR LIGHT	E
E	EXHAUST FAN	20/1	0.4	0.2		4	RECEPT MH	E
E	LIGHTS FURNANCE RECEPITS	20/1			0.4	6	LIGHTING KITCHEN	E
E	LIGHTING	20/1	0.4			8	LIGHTING	E
E	RECEPT MEETING RM	20/1		0.2		10	RECEPT REAR HALL	E
E	RECEPT MH	15/1			0.2	12	LIGHTING ASSEMBLY RM	E
E	LIGHTING	20/1	0.4			14	LIGHTING ASSEMBLY RM	E
E	RECEPT KITCHEN	15/1		0.2		16	LIGHTING ASSEMBLY RM	E
E	OUTDOOR LIGHTS	20/1			0.4	18	LIGHTING REAR HALL, LIBRARY	E
E	RECEPT	20/1	0.4			20	LIGHTING FOYER/HALL	E
E	LIGHTING	20/1			0.4	22	LIGHTING NORTH ROOM	E
E	LIGHTS MAIN OFFICE	15/1			0.4	24	LIGHTING RESTROOMS	E
E	LIGHTING	20/1	0.4			26	LIGHTING OUTDOOR	E
E	LIGHTING	20/1			0.4	28	LIGHTING JANITOR, OUTDOOR	E
E	RECEPT HIGH WALL	20/1			0.2	30	RECEPT	E
E	RECEPT MEETING RM	20/1	0.4			32	RECEPT	E
E	LIGHTING OUTDOOR	15/1		0.2		34	RECEPT	E
E	RECEPT KITCHEN	20/1			0.2	36	SPACE	E
E	RECEPT KITCHEN	20/1	0.2			38	SPACE	E
E	DISHWASHER	40/1		2.5		40	SPACE	E
E		2			2.5	42	SPACE	E
TOTAL KILOVOLT-AMPERES			4.7	6.3	6.3			
TOTAL CONNECTED LOAD:			$17.3 \text{ kVA} \times 1000 \div \sqrt{3}(208) = 48 \text{ A}$					
LOAD			CONNECTED KVA	DEMAND FACTOR	COMPUTED KVA	REMARKS		
LIGHTING			7.7	1.25	9.6	CONTINUOUS		
RECEPTACLES			4.2	1	4.2	NON-CONTINUOUS		
MOTORS			0	1.0	0	NON-CONTINUOUS		
OTHER			5.4	1.0	5.4	NON-CONTINUOUS		
TOTAL			17.3		17.3			
MINIMUM FEEDER AMPACITY:			$19.23 \text{ kVA} \times 1000 \div \sqrt{3}(208) = 53 \text{ A}$					

FILE NAME: EHOID

LOCATION: ROOM 169
TYPE:
MOUNTING: SURFACE

PANEL 000
(EXISTING)

VOLTAGE: 120V/240, 1Ø, 3W
125 A MLO
10 KAIG

WIRE AND CONDUIT SIZE	CIRCUIT DESCRIPTION	C/B	LOADS (kVA)			C/T	CIRCUIT DESCRIPTION	WIRE AND CONDUIT SIZE
			Φ A	Φ B	Φ C			
E	OUTLETS	20/1	0.6			2	SPARE	E
E	SUBPANEL 300	40/1	3	3.5		4	WATER HEATER	E
E	LIGHTS OUTLETS	20/1	0.6			8	LIGHTS 168, 169	E
E	OUTLET SW 271	20/1	0.2			10	OUTLETS 5266, N267	E
E	OUTLET N 270	20/1	0.2			12	FIRE ALARMS EMERGENCY LIGHTS	E
E	OUTLET SE 269	20/1	0.2			14	SUBPANEL 200	E
E	EMERGENCY LIGHTS & EXIT	20/1	0.4			16	SPARE	E
E	RM. IT2 LIGHTS & OUTLETS	15/1	1.0			18	SPARE	E
E	OUTLET SE IT2	20/1	0.2			20	OUTLET NE 271, OUT LIGHTS OUTDOOR OUTLET	E
E	SPARE	20/1	0.6			22	OUTLET W 270	E
E	240V MINI-SPLIT SYSTEM	60/1	1.0	0.2		24	OUTLET SE 267	E
E		2	0.2			26	OUTLET NW 265 DISPOSAL 265 LIGHTS, DOORBELLS	E
E	SUBPANEL 100	60/1	1.4	0.4		28		E
E		2	1.4	0.4		30		E
TOTAL KILOVOLT-AMPERES			11.4	11.7	0			
TOTAL CONNECTED LOAD:			$23.1 \text{ kVA} \times 1000 \div 240 = 96 \text{ A}$					
LOAD			CONNECTED KVA	DEMAND FACTOR	COMPUTED KVA	REMARKS		
LIGHTING			3.2	1.25	4	CONTINUOUS		
RECEPTACLES			9.1	1	9.1	NON-CONTINUOUS		
MOTORS			2	1.0	2	NON-CONTINUOUS		
OTHER			8.8	1.0	8.8	NON-CONTINUOUS		
TOTAL			23.1		23.9			
MINIMUM FEEDER AMPACITY:			$25.4 \text{ kVA} \times 1000 \div 240 = 106 \text{ A}$					

- * BASED ON NEC 220-44. (100% OF LOAD UP TO 10 KVA, PLUS 50% OF LOAD ABOVE 10 KVA)
- ** BASED ON NEC 215, 220, AND 430: (COMPUTED LIGHTING KVA x 125%), + (COMPUTED RECEPTACLE KVA x 100%), + (LARGEST MOTOR KVA x 125%), + (OTHER MOTOR KVA x 100%), + (COMPUTED OTHER LOADS x 100%).

GENERAL PANELBOARD NOTE:

EXISTING PANELBOARD DIRECTORIES ARE PROVIDED FROM AVAILABLE PANELBOARD SCHEDULES. ACTUAL BRANCH CIRCUIT HOMERUNS MAY VARY. CONTRACTOR SHALL VERIFY EXISTING BRANCH CIRCUITS AS NEEDED. UPDATE PANELBOARD BRANCH CIRCUIT DIRECTORIES TO REFLECT WORK DONE AS PART OF THIS PROJECT.

WIRING AND CONDUIT SCHEDULE

E. EXISTING WIRING AND CONDUIT.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS		VOLTS	WATTS	MOUNTING	REMARKS
			NO.	TYPE				
W	LITHONIA	FEM4LED-4L-IMAGD	-	LED	120	30	SURFACE	4FT INDUSTRIAL STRIP ENCLOSED HOUSING, SURFACE MOUNTED
	METALIX	4VT2-LD4-4-DR-UNV-L835	-	LED	120	30	SURFACE	LED EXIT SIGN, RED LETTERING, SEALED NICKEL CADMIUM BATTERY
	COLUMBIA	LXEM4-35-LX-DCA-E-U	-	LED	120	30	SURFACE	
XI	SURE-LITES	EST1-R	-	LED	120	2	CEIL/WALL	

LIGHT FIXTURE SCHEDULE
SUPPLIED BY GILMORE LIGHTING DESIGN

FILE NAME: EHOIE
GILMORE LIGHTING DESIGN

Preliminary Light Fixture Schedule

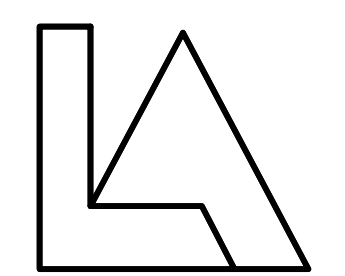
Type	Description	Manufacturer	Source	Voltage	Finish	Location/Notes
A	Recessed LED 4.5" dia. aperture lensed downlight: 1" regress white bevel trim finish, 50 degree beam, 7.38" deep new construction housing, integral driver	USAJ - Bevel LED Basic #1020-B1-10; +Housing LRTD4-9014-M2-30KS-50-NCSM-120V-MTG accessories	14W - 3000K 1053 delivered lumens	120V	White	ground level
B	Same as Type A except for wattage	USAJ - Bevel LED Basic #1020-B1-10; +Housing LRTD4-9014-M2-30KS-50-NCSM-120V-MTG accessories	20W - 3000K 1350 delivered lumens	120V	White	top level over stair
C	Same as Type A except for wet rated	USAJ - Bevel LED Basic #1020-W-B1-10; +Housing #LRTD4-9014-M2-30KS-50-NCSM-120V-MTG accessories	14W - 3000K 1053 delivered lumens	120V	White	exterior canopies
D	Recessed LED 3" dia. aperture lensed downlight: 1" regress bevel trim, white finish, 35 degree beam, 6.5" deep retrofit housing, integral 0-10V dimming driver	USAJ - Bevel LED Basic #221-B1-S-10; +Housing #LRTD3-9014-M2-30KS-35-RT-120V-DIM2L	14W - 3000K 850 delivered lumens	120V	White	conference room
E	NOT USED					
F	Surface mid LED adj cylinder downlight with 360 rotation, round machined canopy, wide beam distribution; remote transformer	BK - #DS-LED-E22-WFL-WHW-12-B-360SL +Canopy #BC12-WHW +remote transformer (1/3 fixtures)	8W - 3000K	120V	White	entry porch
G	Same as Type F except for Medium Flood Lens and power canopy with integral driver	BK - #DS-LED-E22-MFL-WHW-12-B-360SL +canopy #PC-TR20-WHW-1	8W - 3000K	120V	White	exterior soffit
H	Same as Type G except for Medium Flood Lens double head canopy - 2 fixtures at each location	BK - (2x) #DS-LED-E22-MFL-WHW-12-B-360SL +canopy #PC-TR20-WHW-2	(2) 8W - 3000K	120V	White	exterior soffit
J	Surface mid decorative lantern	TBD by architect	TBD	120V	TBD	stairway hall
K	Surface mid decorative lantern as pendant	TBD by architect	TBD	120V	TBD	library
L	Recessed LED 4.5" dia. aperture lensed wallwash: 1" regress white ellipse trim finish, 50 degree beam, 4.34" deep new construction standard housing, integral driver	USAJ - Bevel LED Basic #1251-B1-M; +Housing #LRTW4-9014-M2-30KS-NCSM-120V-MTG accessories	14W - 3500K 1026 delivered lumens	120V	White	library
M	RECESSED LED 4.60" DIA STEP LIGHT, DIE-CAST HOUSING W/ STAINLESS STEEL FACEPLATE	WINONA LIGHTING STEPII-RND-WL-M-L51A-350mA-WHT30K-MVOLT-B55	2.5W 3000K	120V	BRUSHED STAINLESS STEEL	
N	NOT USED					
P	STAKE MOUNTED TREE UPLIGHT	PHILIPS HADCO B3-H-LED13-NF-W	13W 2100K	120V	BRONZE	
Q	Stake mid LED Path light: solid machined copper: 28" H w/ 10" dia. top shield - remote transformer, waterproof direct burial splice connectors	Aurora Lighting #LPL10 Borealis-29-TR12-F-BLP	5W 2900K	12V	Bronze Patina	edge of planting bed
R	Curb Mid LED Wall Uplight: nominal 2" diameter x 4.5" height, IP68, adj mtg bracket, remote transformer, waterproof direct burial splice connectors	Lumascapc - Star II #LS375LED-9H6-ME-15-DIM +Transformer #LS-T-100	9W 3000K	12V	Black	planting bed
S	Back of house LED strip: 3" x 2.5" w, diffuse acrylic lens (no visible diodes or shadowing), 90CRI, 100LPV, 10 year system warranty, integral driver	Cree - LS #LS4-50L-35K-10V	50W 3500K 5000 lumens	120V	White	storage
T	Surface box mounted monopoint: nominal 3.5" protrusion from ceiling, fully adjustable spring, 0-10V dimming, remote transformer, field changeable optic, minimum two stacking lens accessories	Janner #B014-4LED-NL-SP-15W-WFL-WHT5 Options-30K	14W 3000K 860 lumens	120V	White	conference room and coves
U	NARROW EXTRUDED LINEAR DIRECT/INDIRECT LED, FROSTED ACRYLIC LENSES, 4x8' RECTANGULAR	FOCAL POINT; SEEM I F5M165-BWFL-625DN-625UP-30K-1C-UNV-LDI-C24-T5-4x8'R	48W 3000K	120V	SILVER	

- Notes:**
1. Voltage of all luminaire types to be confirmed by Electrical Engineer and Contractor.
 2. Electronic high-efficiency ballasts unless otherwise specified. Dimming ballasts to dim to 1% light output unless otherwise specified. Engineer and contractor to confirm ballast compatibility with lighting controls.
 3. Fluorescent lamps to be highest performance low-mercury products by one of the following manufacturers- no exceptions taken: Osram- Sylvania, Philips or GE. F32T8 lamps to have 3100 initial lumens.
 4. All low voltage fixtures to include integral magnetic transformer unless otherwise specified.
 5. Locations of all remote power equipment to be coordinated by Engineer with Architect.
 6. All finishes, stem lengths, special mounting details, etc. to be confirmed by Contractor with Architect.
 7. All fixtures to be UL listed.
 8. Model numbers provided above are considered as "basis of design". Equipment equal in all respects by alternate manufacturer can be submitted as listed only. Full submittals including shop drawings must be received within 21 days following award of bid for review and approval by Lighting Designer and Electrical Engineer.



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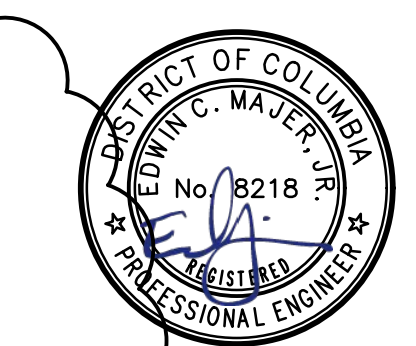
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REVISIONS

NO.	DATE	DESCRIPTION
5-4-2010		CONSTRUCTION SET

DRAWN *ACO*

CHECKED *NM*

DATE 12-1-2017 BID SET

DRAWING TITLE

**ELECTRICAL
PANEL SCHEDULES**

DRAWING NUMBER

1602