



CITY OF PHILADELPHIA DEPARTMENT OF PUBLIC PROPERTY

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REBUILD PHILADELPHIA EXECUTIVE DIRECTOR - KIRA STRONG

PROJECT No. 52019E-01-01

FREE LIBRARY OF PHILADELPHIA KINGSESSING LIBRARY BUILDING RENOVATIONS AND SITE IMPROVEMENTS 1201 S 51ST STREET PHILADELPHIA, PA 19143



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DRAWING LIST

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Sheet Number	Sheet Name
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M-501-L	MECHANICAL SCHEDULES
M-600-L	MECHANICAL DETAILS
M-601-L	MECHANICAL DETAILS

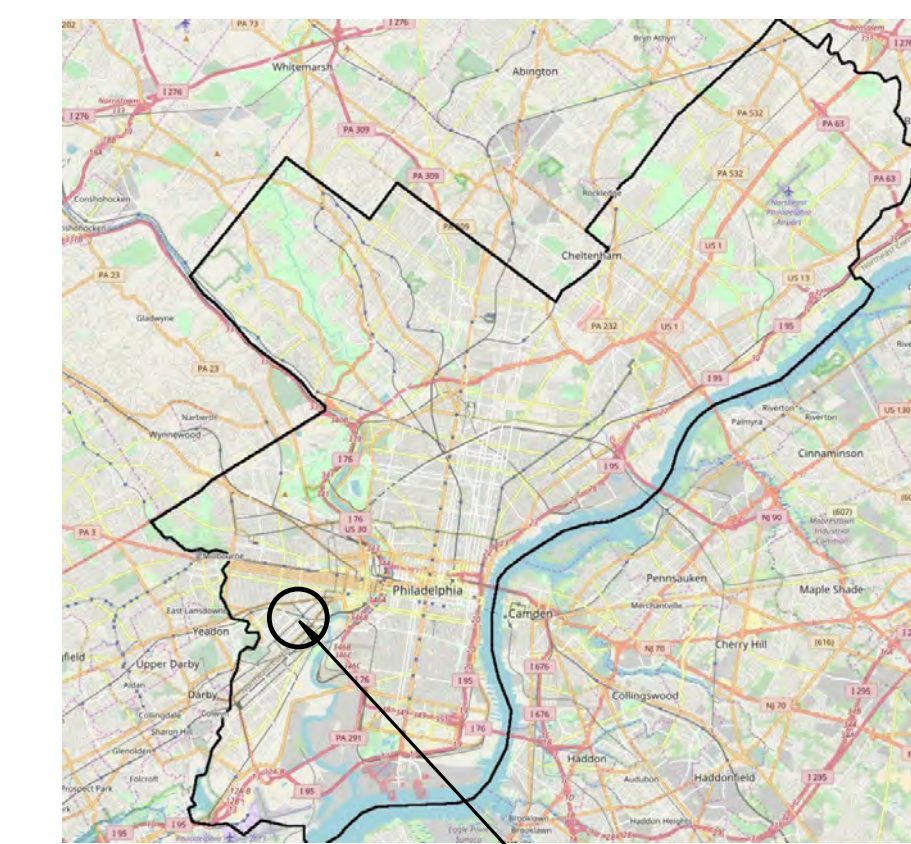
Sheet Number	Sheet Name
E-203-L	ELECTRICAL PROPOSED POWER - ROOF
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Sheet Number	Sheet Name
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P-400-L	PLUMBING RISER DIAGRAMS
P-500-L	PLUMBING SCHEDULES
P-600-L	PLUMBING DETAILS

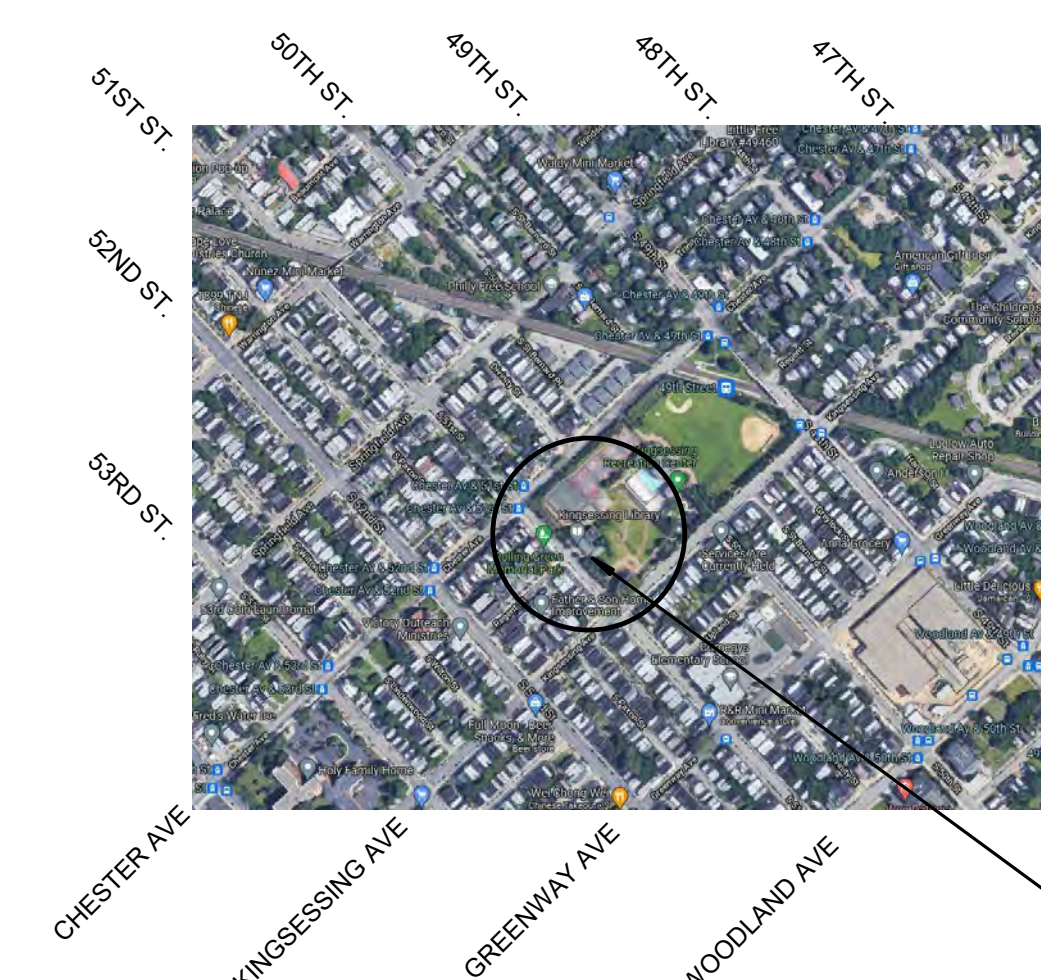
Sheet Number	Sheet Name
FA-001-L	FIRE ALARM INDEX SHEET
FA-100-L	FIRE ALARM DEMOLITION - BASEMENT
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E-001-L	ELECTRICAL INDEX SHEET
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E-105-L	ELECTRICAL DEMOLITION - ATTIC
E-106-L	ELECTRICAL DEMOLITION - ROOF
E-200-L	ELECTRICAL PROPOSED POWER - BASEMENT
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E-202-L	ELECTRICAL PROPOSED - ATTIC

LOCATION PLAN



AREA MAP



VICINITY MAP

PROJECT APPROVALS

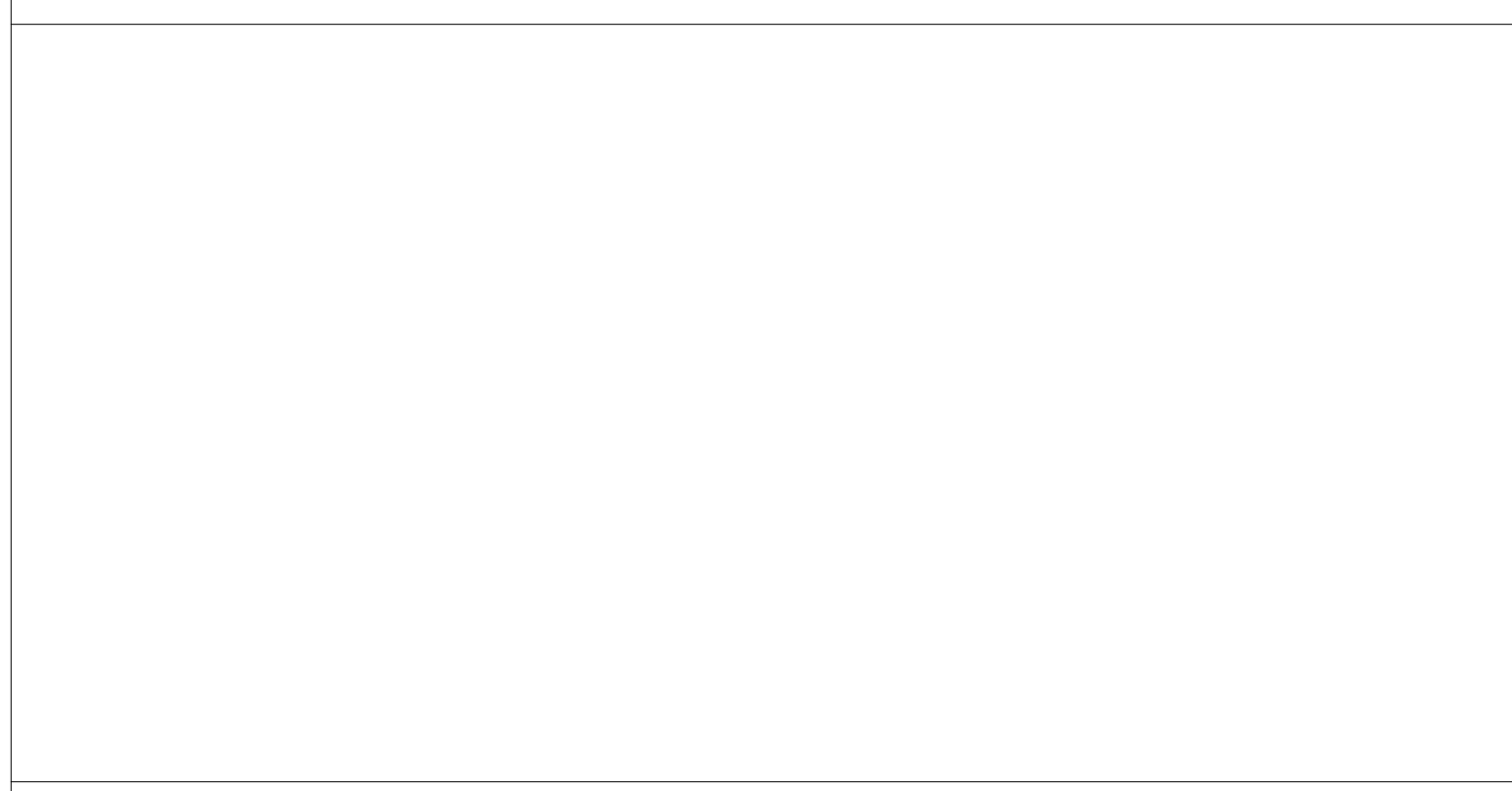
COMMISSIONER/DEPARTMENT OF PUBLIC PROPERTY
DEPUTY COMMISSIONER/DEPARTMENT OF PUBLIC PROPERTY
PROJECT DIRECTOR/DPP-CAPITAL PROJECTS DIVISION
ART COMMISSION
HISTORICAL COMMISSION

SEALS

CITY OF PHILADELPHIA
FREE LIBRARY OF PHILADELPHIA
1901 VINE STREET
PHILADELPHIA, PA 19103
PHILADELPHIA PENNSYLVANIA

PROJECT NO.	21070	DRAWING NO.	CS1-L	
DATE	09/07/22			
SCALE				
DRAWN BY:	A.F.			
CHECKED BY:	D.B.			
NOTE:	ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.			

STAMP AREA



ISSUE FOR BID
NOT FOR CONSTRUCTION
09/07/22

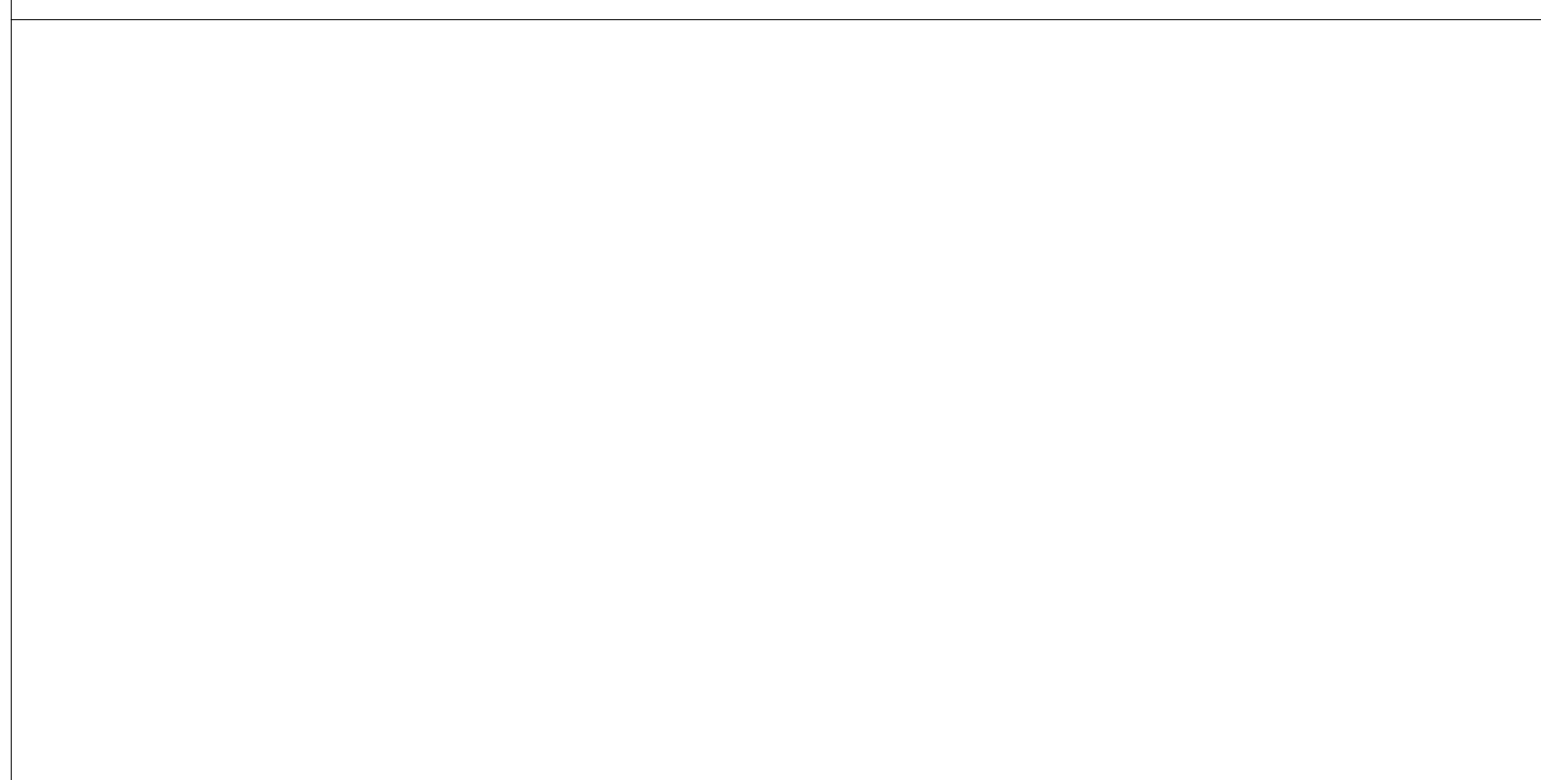
ABBREVIATIONS

ABV	Above	EA	Each	LAM	Laminate	R	Radius, Riser, Rubber
AFF	Above Finish Floor	E	East	LAT	Lateral	REC'D	Received
A P	Access Panel	E.O.S.	Edge of Slab	LAV	Lavatory	RECP	Receptacle
ACOUS	Acoustical	ELEC	Electric, Electrical	LB	Lead	REF	Reference
ACT	Acoustic Ceiling Tile	EW	Electric Water Cooler	LH	Left Hand	REFR	Refrigerate, Refrigerator
AD	Acrylic Doffing	EL	Elevation	LT	Light	REG	Register
AGGR	Aggregate	ELEV	Elevator	LWC	Light Weight Concrete	RESC	Recessed Fire Extinguisher Cabinet
ALLOW	Allowance	ENCL	Enclosure	LTG	Lighting	REIN	Reinforce
ALT	Alternate	ENG	Engineering	LN	Linear	RPP	Reinforced Plastic Paneling
AL ALUM	Aluminum	EQ	Equal	LF	Linear Feet	REQ'D	Required
ANOD	Anodized	EQUIP	Equipment	LNO	Linoleum	RET	Returned
ARCH	Architect(ural)	EXH	Exhaust	LVR	Louver	RA	Return Air
A D	Arch Drain	EXIST, EXTG	Existing	L PT	Low Point	REV	Revision
ASPH	Asphalt	EJ	Expansion Joint	MAN	Man	RH	Right Hand
AVG	Average	EXT	Exterior	MGR	Manager	R.D.	Roof Drain
B	Base	FW	Face of Wall	MAN	Manual	RM	Room
BSMT	Basement	FIG	Figure	MFR	Manufacturer	RO	Rough Opening
BSMT	Basement	FIG	Figure	MFG	Manufacturer	RO	Rough Opening
BIT	Bearing	FIN	Finish	M.O.	Masonry Opening	SAN	Sanitary
BET	Between	FEC	Fire Extinguisher Cabinet	MATL, MATL	Material	SAN/N	Sanitary Nook Dispenser
B	Bituminous	FHC	Fire Hose Cabinet	MAX	Maximum	SCH	Schedule
BLK	Block	FP	Fireproofing	MED	Mechanical	SLD	Sealed
BLKG	Blocking	FLAM	Flammable	MEMB	Membrane	SECT	Section
BD	Board	FLR	Floor	MEMB	Membrane	SHT	Sheet
BOT	Bottom	FD	Floor Drain	MTL	Metal	SIM	Similar
BTU	British Thermal Units	FLRG	Flooring	MEZZ	Mezzanine	SK	Sketch
BLDG	Building	FLUR	Flourescent	MIN	Minimum	SMT	Slate
BUR	Built-up Roofing	FTG	Footing	MISC	Miscellaneous	STC	Sound Transmission Coefficient
BBD	Bulletin Board	FDN	Foundation	MTD	Mounted	S	South
BO	By Others	GALV	Galvanize	NOM	Normal	SPEC	Specification
CAB	Cabinet	GA	Gauge	N	North	SQ	Square
CR	Card Reader	GC	General Contractor	NIC	Not in Contract	SS	Stainless Steel
CPT	Carpet	GEN	Generator	N/S	Not to Scale	STND	Standard
CL	Ceiling	GL	Glass	NO	Number	STR.	Structural
CTR	Center	GL COAT	Glazed Coating	OFF	Office	STR. STRUC	Structural Surface Mounted FEC
CL	Centerline	GYP	Gypsum	OP	Opening	SMFEC	Surface Mounted FEC
C, C, C-C	Center to Center	GWB	Gypsum Wall Board	OPP	Opposite	SUSP	Suspended
CER	Ceramic	HANDR	Handrail	OP	Opposite	TEL	Telephone
CT	Ceramic Tile	HDR	Hardware	OD	Outside Diameter	TEMP	Tempered
CHAM	Chamfer	HD	Head	OA	Over-all	THK	Thick
CIR	Circle	HID	Heating, Ventilating & Air Conditioning	O/H/D	Overhead	THRU	Through
CLR	Clear	HT	Height	OC	Overhead Blind Door	T&G	Tounge and Groove
CLO	Closet	HM	Hollow Metal	OC	Overhead Coiling Door	T&B	Top and Bottom
CW	Cold Water	HOR, HORIZ	Horizontal	OG	Overhead Coiling Gate	TOS	Top of Steel, Top of Slab
COL	Column	HDS	Hot Dip Galvanized	OT	Opening	T	Thick
CONC	Concrete	HW	Hot Water	PTD	Painted	TYP	Typical
CONU	Concrete Masonry Unit	IN	Inch	PR	Panel	UL	Underwriters' Laboratories, Inc.
CONST	Construction	INCL	Include	PNL	Panel	VB	Vapor Barrier, Vinyl Base
CJ	Construction Joint	INFO	Information	PKG	Parking	VIF	Verify in Field
CONT	Continue or Continuous	ID	Inside Diameter	PTN	Partition	VERT	Vertical
CONTR	Contractor	INSUL	Insulate	PER	Perpendicular	VCT	Vinyl
CS	Corner Guard	INT	Interior	PL	Plate	VCT	Vinyl Composition Tile
CS/R	Corner Riser	JAN	Janitor's Closet	PLMB	Plumbing	WC	Watercloser
CJ FT	Cubic Feet per Minute	JT	Joint	PLYWD	Plywood	WP	Waterproofing
DEG	Degree	JB	Junction Box	PVC	Polyvinyl Chloride	W	West, Wide Flange, Width
DEMO	Demolition, Demolish	KSF	Kilograms per sq. ft.	PSF	Pounds per sq. ft.	WD	Wood
DTL	Detail	KIT	Kitchen	PSI	Pounds per sq. in.	W	With
DIA	Diameter	KD	Knocked Down	PREFAB	Prefabricated	W/O	Without
DM	Dimension	KO	Knock Out	PROJ	Project, Projection	QTY	Quantity
DW	Dishwasher					QT	Quarry Tile
DISP	Dispenser						
DR	Door						
DRL	Double						
DN	Down						
DR	Drain						
DWG	Drawing						

SYMBOLS

	Room name	150 SF	AREA TAG		REVISION TAG
	CALLOUT TAG		ROOM TAG (ALSO W/ AREA OR VOLUME)		SECTION HEAD - FILLED (ALSO UNFILLED)
	CENTERLINE		SECTION HEAD - NO ARROW		SECTION TAIL - FILLED
	DOOR TAG		SPAN DIRECTION (ONE AND TWO WAY)		SPOT ELEVATION - CROSSHAIR/ TARGET
	ELEVATION MARK BODY_CIRCLE (ALSO UNFILLED)		STAIR RUN TAG		STRUCTURAL BEAM SYSTEM TAG
	ELEVATION MARK BODY_SQUARE (ALSO UNFILLED)		STRUCTURAL FRAMING TAG - BOXED		VIEW REFERENCE
	GRID HEAD - CIRCLE		VIEW TITLE		WALL TAG
	GRID HEAD - NO BUBBLE		WINDOW TAG		
	KEYNOTE NUMBER - BOXED				
	LEVEL HEAD - CIRCLE				
	LEVEL HEAD - NO BUBBLE				
	MATERIAL TAG				
	NORTH ARROW				

STAMP AREA



DEMOLITION GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR HAZARDOUS MATERIAL ABATEMENT. SEE ABATEMENT WORK PLAN & SPECIFICATIONS. PER REPORT, LEAD PAINT IS ALSO PRESENT AT WORK AREAS. ALL DISTURBANCE ACTIVITIES SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING OSHA 29 CFR 1926.62
- CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- BEFORE STARTING WORK, MAKE A THOROUGH EXAMINATION OF THOSE PORTIONS OF THE STRUCTURE IN WHICH THE WORK IS TO BE PERFORMED. CHECK ALL THE WORK ADJOINING OR AT UNDERLYING LOCATIONS, REPORT TO THE ARCHITECT ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK. DO NOT START THE WORK UNTIL SUCH CONDITIONS HAVE BEEN EXAMINED AND A COURSE OF ACTION MUTUALLY AGREED UPON.
- CONTRACTOR SHALL PERFORM ALL NECESSARY DEMOLITION AS REQUIRED FOR INSTALLATION OF NEW WORK AS SHOWN ON THE DRAWINGS. ALL DEMOLITION NOT SPECIFICALLY SHOWN BUT NECESSARY TO COMPLETE THE PROJECT AS SHOWN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- PRIOR TO THE START OF DEMOLITION, THE CONTRACTOR SHALL CALL TO THE ATTENTION OF THE OWNER ANY DAMAGE, CRACKS OR OTHER IMPERFECTIONS IN THE WORK ADJACENT TO DEMOLITION AREAS.
- CONTRACTORS SHALL INSPECT AND ASSESS EACH SPACE AND FULFILL THE INTENT OF THE WORK REQUIRED BY THE CONTRACT DOCUMENTS. DEVIATIONS REQUIRED BY FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING.
- ANY CUTTING AND REMOVAL INDICATED ON THE DRAWINGS ARE GENERAL INDICATIONS ONLY AND DO NOT NECESSARILY SHOW THE FULL EXTENT OF CUTTING AND REMOVAL WHICH MAY BE REQUIRED BY JOB CONDITIONS.
- CONSTRUCTION AND EXISTING FINISHES SHALL REMAIN UNLESS NOTED OTHERWISE. DURING DEMOLITION WORK, PROPERLY PROTECT ALL EXISTING WORK SHOWN TO REMAIN. EXERCISE CARE WHEN REMOVING ADJACENT WORK, PROPERLY REPAIR TO THE ORIGINAL CONDITIONS. ANY DAMAGE TO ITEMS SHOWN TO REMAIN, CAUSED BY DEMOLITION PROCEDURES, TO THE SATISFACTION OF, AND AT NO ADDITIONAL COST, TO THE OWNER. PATCH SURFACE FINISHES BEHIND DEMOLITION WORK (I.E. FLOORS, WALLS, CEILINGS, ETC.) TO MATCH SURROUNDING CONDITIONS.
- BEFORE STARTING DEMOLITION OPERATIONS, PROVIDE THE NECESSARY PROTECTIVE BARRIERS AROUND TRAFFIC AREAS NEAR INTERIOR WORK AS REQUIRED AND IN STRICT ACCORDANCE WITH OSHA RULES AND REGULATIONS. PROTECT ALL EXISTING EQUIPMENT NOT DESIGNATED TO BE REMOVED. PERFORM ALL WORK REQUIRED TO PROTECT THE PUBLIC AND UTILITIES.
- TAKE NECESSARY PRECAUTIONS TO PREVENT DUST AND DIRT FROM RISING BY WETTING DEMOLISHED DEBRIS. EXCESSIVE USE OF WATER WILL NOT BE PERMITTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY, TEMPORARY BRACING AND/OR SHORING REQUIRED TO MAINTAIN THE INTEGRITY AND STRUCTURAL STABILITY OF THE BUILDING AND ITS INDIVIDUAL ELEMENTS.
- EXCEPT WHERE NOTED OTHERWISE, REMOVE ALL DEMOLISHED MATERIALS FROM THE SITE. DO NOT BURN OR BURY MATERIALS ON THE SITE. AT THE COMPLETION OF WORK FOR EACH DAY, CLEAN THE ENTIRE AREA INVOLVED AND LEAVE IT IN A NEAT CONDITION, FREE OF DEBRIS AND RUBBISH. KEEP ALL ADJOINING PUBLIC AREAS CLEAN AND FREE OF DEBRIS OR CONSTRUCTION MATERIALS DURING WORKING HOURS, AND MAKE AN EFFORT TO PROVIDE SAFE CONDITIONS FOR THE GENERAL PUBLIC AND WORKMEN.
- THE OWNER WILL REMOVE ALL EXISTING ITEMS THAT THE OWNER WISHES TO SALVAGE PRIOR TO START OF DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL REMAINING ITEMS.
- ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, SITE, AND LANDSCAPE DRAWINGS, AND PROJECT SPECIFICATIONS MAY PROVIDE ADDITIONAL DEMOLITION REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BEING FAMILIAR WITH THESE DRAWINGS AND PROJECT SPECIFICATIONS AND ANY REQUIREMENTS PROVIDED BY THEM.
- PRIOR TO THE DEMOLITION OF THOSE ITEMS WHICH HAVE UTILITY CONNECTIONS (WATER, GAS, ELECTRICITY, STEAM, ETC.) THE CONTRACTOR SHALL ARRANGE WITH THE OWNER TO LOCATE, SHUT-OFF VALVES, PANEL BOXES AND OTHER CONTROL ELEMENTS, SO THAT WATER DAMAGE AND OTHER POTENTIALLY INCONVENIENT OR DANGEROUS SITUATIONS ARE AVOIDED.
- REFERENCE PARTIAL DEMOLITION PLANS FOR SPECIFIC DEMOLITION REQUIREMENTS.
- REFERENCE DIVISION 01 SPECIFICATION SECTIONS FOR SELECTIVE DEMOLITION, CUTTING, AND PATCHING, TEMPORARY FACILITIES AND CONTROLS, SITE AND BUILDING DEMOLITION, CONSTRUCTION WASTE MANAGEMENT, AND RELATED SECTIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DEMOLITION REQUIREMENTS WITH PROJECT PHASING, NOTIFY ARCHITECT PRIOR TO START OF WORK WITH ANY CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT PROPER EXECUTION OF THE WORK.

HISTORIC GENERAL NOTES

- THE LIBRARY IS LISTED ON THE PHILADELPHIA REGISTER OF HISTORIC PLACES. THE INTENT IS TO PROVIDE 100 YEAR REPAIRS TO THESE STRUCTURES. ALL WORK MUST CONFORM TO THE NATIONAL PARK SERVICE STANDARDS FOR REHABILITATION AND RESTORATION. ALL EXISTING HISTORIC BUILDING COMPONENTS ARE TO REMAIN IN PLACE TO THE GREATEST EXTENT POSSIBLE. HISTORIC BUILDING ELEMENTS ARE TO BE RESTORED WHENEVER POSSIBLE. IF REPLACEMENT IS NECESSARY, REPLACE WITH APPROVED MATERIALS, HAVING EXACT DIMENSIONS AND MATCHING HISTORIC MATERIALS, I.N.C.D. PROCEED WITH REPLACEMENT AFTER DIRECTION FROM ARCHITECT. DO NOT USE METHODS WHICH WILL RESULT IN UNNECESSARY LOSS OF DETAIL OR MATERIAL IN EXISTING SURFACES. WHEN IN QUESTION, REFER TO THE US DEPARTMENT OF THE INTERIOR GUIDELINES FOR THE RESTORATION OF HISTORIC STRUCTURES.
- PROVIDE MOCKUPS AND TEST PANELS AS INDICATED IN THE SPECIFICATIONS. WORK SHALL NOT PROCEED WITHOUT APPROVAL OF THE MOCKUPS OR TEST PANELS. LOCATIONS TO BE IDENTIFIED BY ARCHITECT.
- ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR PRIOR TO PROCEEDING WITH THE WORK.
- A BINOCULAR SURVEY WAS CONDUCTED TO DETERMINE THE FAÇADE REPAIR AND CLEANING SCOPE. THE CONTRACTOR SHALL INFORM DESIGN PROFESSIONAL, IN WRITING, OF ANY DISCREPANCIES ON DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL NOTIFY DESIGN PROFESSIONAL AT ONCE OF UNSEEN EXISTING CONDITIONS ENCOUNTERED DURING THE COURSE OF THE WORK WHICH MAY AFFECT THE DESIGN MODIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE REQUEST FOR CHANGE, JUSTIFICATION, SHOP DRAWINGS, PROJECT COST AND SCHEDULE IMPACT FOR PROPOSED MODIFICATIONS TO THE CONTRACT DRAWINGS. CONTRACTOR SHALL PROVIDE REPLACEMENT QUANTITIES, PROCEED WITH REPLACEMENT AFTER DIRECTION FROM ARCHITECT. PROVIDE TEMPORARY PROTECTION.
- ALL NEW ELEMENTS (WOOD, STONE, BRICK, TERRA COTTA) REPLACEMENT TO MATCH EXISTING PROFILES AND DIMENSIONS EXACTLY.
- RAKE OUT ALL EXISTING SEALANTS, BOND BREAKERS AND RELATED ITEMS FROM ALL CONTROL JOINTS, EXPANSION JOINTS AND FLASHING LOCATIONS WHERE INDICATED. PROVIDE PRIMERS, BOND BREAKERS, COMPRESSIBLE FOAM ROOF WHERE REQUIRED BY MANUFACTURER. APPLY SEALANT AT CONTROL JOINTS AND OTHER LOCATIONS, ALLOWING FOR PROPER SEALANT MOVEMENT. SEALANT COLORS TO BE SELECTED BY ARCHITECT.
- SEE ELEVATION AND WINDOW SCHEDULE SHEETS FOR WINDOW REPLACEMENT SCOPE.
- SEE DWGS A201-L & 202-L BUILDING ELEVATIONS - NEW WORK FOR EXTERIOR MASONRY SCOPE OF WORK & A203-L FOR DETAILS.
- SEE DWGS A103-L NEW WORK PLAN - ROOF FOR ROOF PLACEMENT WORK SCOPE.
- ALL SURFACE PREPARATION FOR PAINT AND SEALANT WORK SHALL MEET SSPC-SP2 HAND TOOL CLEANING.

EXTERIOR WORK GENERAL NOTES:

- SITE OBSERVATIONS WERE CONDUCTED IN A NON-INVASIVE MANNER. EXTERIOR WORK GENERAL NOTES AND DRAWINGS REPRESENT SCOPE AND QUANTITIES OF REPAIR WORK REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE NOTES/DRAWINGS AND FIELD CONDITIONS PRIOR TO START OF WORK.
- REMOVE WALL MOUNTED SIGNS PRIOR TO CLEANING & POINTING MASONRY. COORDINATE WITH OWNER FOR REINSTALLATION.
- ALL FAÇADES TO BE CLEANED. SEE SPECIFICATIONS FOR DETAILS.
- ALL HOLES IN BRICK TO BE PATCHED TO MATCH SURROUNDING MATERIAL IN COLOR AND TEXTURE.
- SEE ELECTRICAL DRAWINGS FOR EXTERIOR LIGHTING SCOPE.
- SEE ROOF DRAWING FOR REPOINTING SCOPE ON ROOF SIDE OF PARAPET.
- WHERE FRAMES ARE SCHEDULED TO REMAIN, REMOVE CALK AND SEALANT, CLEAN THOROUGHLY, RECALK AND SEAL.

GENERAL NOTES:

- REFERENCE FINISH SCHEDULE FOR ALL ROOM FINISHES.
- REFERENCE EXTERIOR BUILDING ELEVATIONS AND WINDOW SCHEDULE FOR NEW WORK AT WINDOWS.
- SEE ELEVATIONS AND FINISH SCHEDULE FOR EXTENT OF REPAIR OF PLASTER WALLS AND TREATMENT. SEE SPECIFICATIONS FOR PLASTER REPAIR.
- SEE CEILING PLANS AND FINISH SCHEDULE FOR EXTENT OF REPAIR AND TREATMENT. SEE SPECIFICATIONS FOR PLASTER REPAIR.
- REFERENCE DOOR SCHEDULE FOR DOOR TYPES, HARDWARE, AND PROPOSED NEW WORK.
- REFERENCE BUILDING ELEVATIONS FOR EXTENT OF EXTERIOR WINDOW, DOOR, AND FAÇADE SCOPE.
- COORDINATE NEW ELEVATOR SHAFT LOCATIONS WITH EXISTING DOOR OPENING. NOTIFY ARCHITECT IMMEDIATELY OF DIMENSIONAL DISCREPANCIES.
- THE CONTRACTOR SHALL INVESTIGATE JOB SITE TO COMPARE CONTRACT DOCUMENTS AND EXISTING CONDITIONS. INCLUDE COST FOR ALL WORK DESCRIBED IN CONTRACT DOCUMENTS AND REQUIRED OR IMPLIED BY EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY OMISSIONS OR CONFLICTS IN THE DRAWINGS AND ANY RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.
- THE CONTRACTOR SHALL COMPLY AND COORDINATE ALL WORK WITH BUILDING OWNER REGARDING HEAT, WATER, ELECTRICITY, DELIVERIES, ACCESS, NOISE CONTROL, TRASH AND DEBRIS REMOVAL, HOISTING, AND ANY OTHER UTILITIES OR OWNER'S RULES AND REGULATIONS CONCERNING THE PROJECT SITE. SEE DIV 01 SPECIFICATIONS.
- THE CONTRACTOR SHALL COORDINATE SCHEDULING, PROVISIONS FOR INSTALLATION, LOCATIONS AND THE ACTUAL INSTALLATION OF ITEMS FURNISHED BY OWNER OR BY OTHERS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND IS RESPONSIBLE FOR ALL PHASES INCLUDING BIDDING, FABRICATION, COORDINATION AND CONSTRUCTION. CONTRACT DRAWINGS ARE NOT INTENDED TO REPRESENT EXACT DIMENSIONS.
- DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS.
- CHANGES IN DRAWINGS OR ACTUAL WORK MUST BE ISSUED BY THE ARCHITECT.
- PERFORM ALL WORK AND INSTALL MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS AND IN A MANNER CONSISTENT WITH INDUSTRY STANDARD OF WORKMANSHIP.
- THE CONTRACTOR SHALL EXAMINE ALL SURFACES TO DETERMINE THAT THEY ARE SOUND, DRY, CLEAN AND READY TO RECEIVE FINISHES PRIOR TO INSTALLATION. START OF INSTALLATION SHALL IMPLY ACCEPTANCE OF SUBSTRATE AND SHALL NOT BE GROUNDS FOR CLAIMS AGAINST IMPROPER PERFORMANCE OF INSTALLED MATERIALS. ADVISE ARCHITECT OF ANY EXISTING CONSTRUCTION NOT LEVEL, SMOOTH AND PLUMB WITHIN INDUSTRY STANDARDS PRIOR TO START OF CONSTRUCTION.
- WORK DAMAGED DURING CONSTRUCTION OR NOT CONFORMING TO SPECIFIED STANDARDS, TOLERANCES OR MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION SHALL BE REPLACED, BY THE CONTRACTOR, AT NO ADDITIONAL CHARGE TO THE OWNER.
- THE CONTRACTOR SHALL MAINTAIN ALL EXITS, EXIT LIGHTING, FIRE PROTECTION DEVICES AND LIFE SAFETY SYSTEMS IN WORKING ORDER. CONTRACTOR TO PROVIDE TEMPORARY FIRE EXTINGUISHERS DURING THE COURSE OF CONSTRUCTION AS RECD BY THE AUTHORITIES HAVING JURISDICTION.
- EXIT DOORS, EGRESS DOORS, AND OTHER DOORS REQUIRED FOR MEANS OF EGRESS SHALL BE OPERABLE FROM THE INSIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
- CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE CONDITIONS OF THE CONTRACT, LOCAL CONDITIONS RELATING TO LOCATION, ACCESSIBILITY AND GENERAL CHARACTER OF THE CONSTRUCTION SITE AND LOCAL LABOR CONDITIONS SO THAT HE UNDERSTANDS THE NATURE, EXTENT, DIFFICULTIES, AND RESTRICTIONS RELATED TO THE EXECUTION OF WORK. NOTIFY ARCHITECT OF ALL DISCREPANCIES PRIOR TO COMMENCING WORK.
- ALL WOOD BLOCKING IN FIRE RATED ASSEMBLIES TO BE FIRE RETARDANT.
- ALL WOOD ON EXTERIOR WALLS AND ROOF TO BE MOISTURE RESISTANT.
- IN ALL INSTANCES WHERE WORK IS BEING CORRECTED OR REPAIRED, CONTRACTOR IS TO REPAINT ENTIRE WALL TO NEAREST CORNER OR BREAK-LINE WHERE WALL CHANGES DIRECTION.
- CONTRACTOR TO COORDINATE WITH E.C. THE MOUNTING HEIGHT OF ALL SWITCHES AND OUTLETS AT MILLWORK, COUNTERS, SHELVING, SINKS, ETC.
- CONTRACTOR IS TO PROVIDE ALL MISC. FRAMING, BLOCKING, ETC. TO HANG SCREENS, BULLETIN BOARDS, RAILS, TOILET ACCESSORIES, WOODWORK, ETC.
- CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AND GYPSUM BOARD CEILINGS SHALL BE SPACED AS FOLLOWS:
A. PARTITIONS- 30 FT. MAXIMUM IN EITHER DIRECTION. INTERIOR CEILINGS- 30 FT. MAXIMUM IN EITHER DIRECTION.
- ALL PENETRATIONS THROUGH RATED WALLS ARE TO BE SEALED TO MAINTAIN INTEGRITY OF WALL CONSTRUCTION AND RATING (ASTM E814 SYSTEM BY 3M, HILTI, OR SIM).
- ALL INSULATION EXPOSED TO CEILING PLENUM IS TO BE FIRE AND DUST PROOF.
- ALL NEW SUPPLY AIR AND RETURN GRILLES SHALL BE LOCATED IN THE CENTER LINE OF ACOUSTICAL TILES UNLESS OTHERWISE INDICATED ON PLANS.
- CONTRACTOR SHALL COMPLY WITH MANUFACTURER'S INSTRUCTIONS WHEN RELOCATING AND/OR INSTALLING ANY EQUIPMENT AND FURNISHINGS.
- CONTRACTOR SHALL VERIFY EQUIPMENT LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
- ALL PENETRATIONS THROUGH DRYWALL AND MASONRY SURFACES INCLUDING BUT NOT LIMITED TO PIPE, CONDUIT, DUCTWORK, GRILLES, REGISTERS, DEVICE BOXES, HANGER RODS, ETC. SHALL HAVE THEIR COMMON JOINTS WITH DRYWALL AND/OR MASONRY CALKED TO PROVIDE AN AIR-TIGHT SEAL.
- CONTRACTOR TO REMOVE ANY STRAY PAINT, DIRT, OR STAINS INCURRED DURING THE CONSTRUCTION PROCESS. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TEMPORARY EQUIPMENT COVERINGS USED DURING CONSTRUCTION AND HE SHALL ALSO BE RESPONSIBLE FOR REMOVING HIS TRASH OFF OF THE JOB SITE DAILY.
- THE CONTRACTOR SHALL PERFORM ALL CUTTING AND WELDING IN COMPLIANCE WITH THE PUBLISHED STANDARDS OF NFPA. THE CONTRACTOR SHALL PROVIDE FIRE WATCHES FOR ALL CUTTING, GRINDING, AND WELDING OPERATIONS. THE TRAINING OF THESE FIRE WATCHES AND THE USE OF THE CONTRACTOR'S SUPPLIED FIRE EXTINGUISHERS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR DETAILS OF UTILITY WALL PENETRATIONS.
- ALL FIXTURES LABELED "I" INDICATE HANDICAP ACCESSIBLE FIXTURES.
- WHERE TWO DISSIMILAR METALS MEET, PAINT FACE OF ONE WITH BITUMINOUS PAINT.
- ALL EXTERIOR ENTRANCE DOORS AND FRAMES TO RECEIVE PERIMETER WEATHER STRIPPING AS PER SPECIFICATIONS.
- CONTRACTOR IS TO PROVIDE STUD BRACING AS REQUIRED FOR METAL STUD PARTITIONS ABOVE 10'-0".
- ANY AREA OUTSIDE THE LIMITS OF CONSTRUCTION DISTURBED BY OPERATIONS OF THE CONTRACTOR SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.
- ALL CONCRETE WALKS, ASPHALT, CURBS AND LANDSCAPING DAMAGED DURING CONSTRUCTION ARE TO BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTINUOUS BLOCKING SHALL BE PROVIDED AT DRYWALL PARTITIONS FOR ALL CABINET WORK AT TOP AND BOTTOM OF WALL MOUNTED UNITS AND UNDER COUNTER TOP LEVEL OF BASE CABINET. ALL OPEN-FACE SHELVING UNITS SHALL HAVE CONCEALED ANCHOR BRACKETS.
- ALL EXTERIOR WINDOWS, DOORS, LOUVERS, VENTS, EXHAUST FANS, PIPE PENETRATIONS, AND ALL OTHER PENETRATIONS THRU EXTERIOR WALLS SHALL BE SEALED AROUND ENTIRE PERIMETER WITH SEALANT. (BOTH ON EXTERIOR AND INTERIOR SIDES)
- FIRE EXTINGUISHER CABINETS TO BE MOUNTED 4'-0" A.F.F. TO TOP MAXIMUM IN ACCORDANCE WITH REQUIREMENTS. (FIRE EXTINGUISHERS WITH GROSS WEIGHT OVER 40LBS. MUST BE MOUNTED 3'-6" MAX.). CLEARANCE BETWEEN THE BOTTOM OF THE FLOOR AND THE EXTINGUISHER MAY NOT BE LESS THAN 4").
- CONTRACTOR TO COORDINATE WITH OWNER'S MOVING COORDINATOR. MOVING IN OF EQUIPMENT AND FURNISHINGS AT PROJECT COMPLETION WILL OVERLAP WITH FINAL PUNCHLIST COMPLETION; CONTRACTOR TO FACILITATE THIS WORK.

REVISIONS

ISSUE	DATE	DESCRIPTION
0	09/07/22	ISSUE FOR BID
1	09/26/22	ISSUE FOR BID



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PROJECT COORDINATOR

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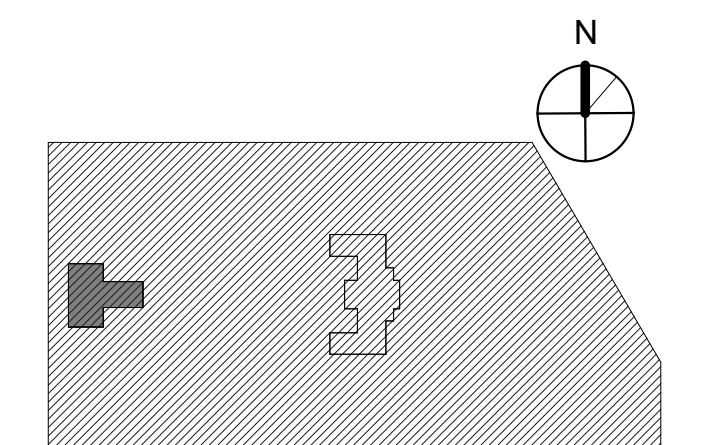


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1901 VINE ST
PHILADELPHIA, PA 19103

PHILADELPHIA PENNSYLVANIA

KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS

KEY PLAN

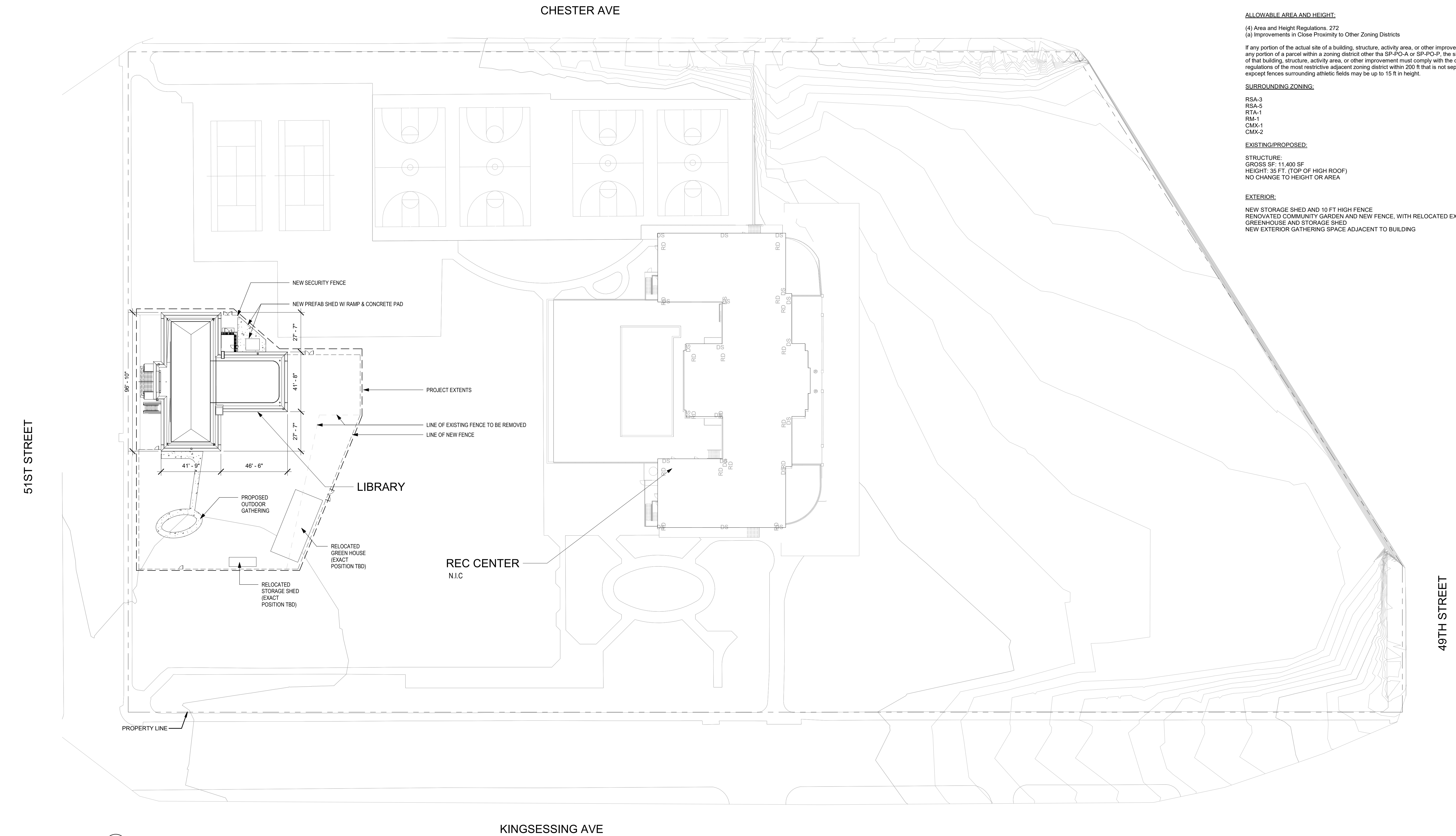


DRAWING TITLE

GENERAL NOTES AND
ABBREVIATIONS

PROJECT NO.	DRAWING NO.
21070	G101-L
DATE	9/7/22
SCALE	As Indicated
DRAWN BY	A.F.
CHECKED BY	D.B.

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



ZONING
 LIBRARY ADDRESS: 1201 S 51 ST
 ZONING ADDRESS: 4901 KINGSESSING AVE

- BASE DISTRICT: SP-PO-A
 - ACTIVE RECREATION PARKS AND OPEN SPACE (SPECIAL PURPOSE)
 - OVERLAY: ACCESSORY SIGN CONTROLS
 - PARCEL: 0275 160010
 - OPA ACCOUNT: 783249500

ALLOWABLE AREA AND HEIGHT:
 (4) Area and Height Regulations, 272
 (a) Improvements in Close Proximity to Other Zoning Districts

If any portion of the actual site of a building, structure, activity area, or other improvement is within 200 ft of any portion of a parcel within a zoning district other than SP-PO-A or SP-PO-F, the size, location, and design of that building, structure, activity area, or other improvement must comply with the dimensional regulations of the most restrictive adjacent zoning district within 200 ft that is not separated by a waterway, except fences surrounding athletic fields may be up to 15 ft in height.

SURROUNDING ZONING:
 RSA-3
 RSA-5
 RTA-1
 RM-1
 CMX-1
 CMX-2

EXISTING/PROPOSED:
 STRUCTURE:
 GROSS SF: 11,400 SF
 HEIGHT: 35 FT. (TOP OF HIGH ROOF)
 NO CHANGE TO HEIGHT OR AREA

EXTERIOR:
 NEW STORAGE SHED AND 10 FT HIGH FENCE
 RENOVATED COMMUNITY GARDEN AND NEW FENCE, WITH RELOCATED EXISTING GREENHOUSE AND STORAGE SHED
 NEW EXTERIOR GATHERING SPACE ADJACENT TO BUILDING

STAMP AREA

REVISIONS		
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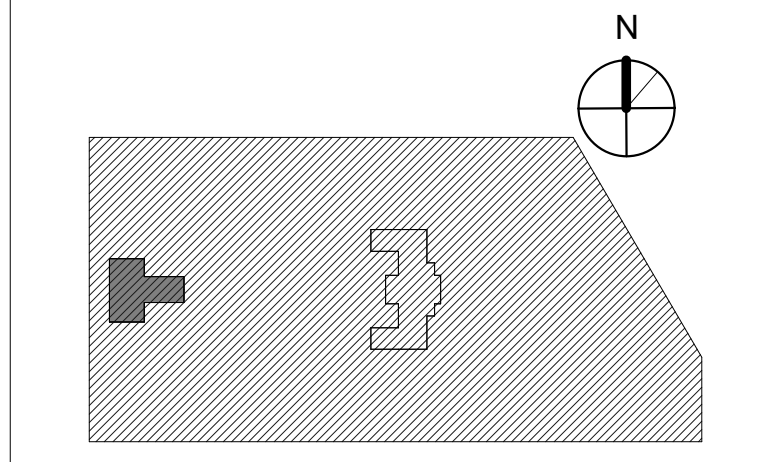


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PROJECT TITLE
KINGSESSING LIBRARY BUILDING RENOVATIONS AND SITE IMPROVEMENTS

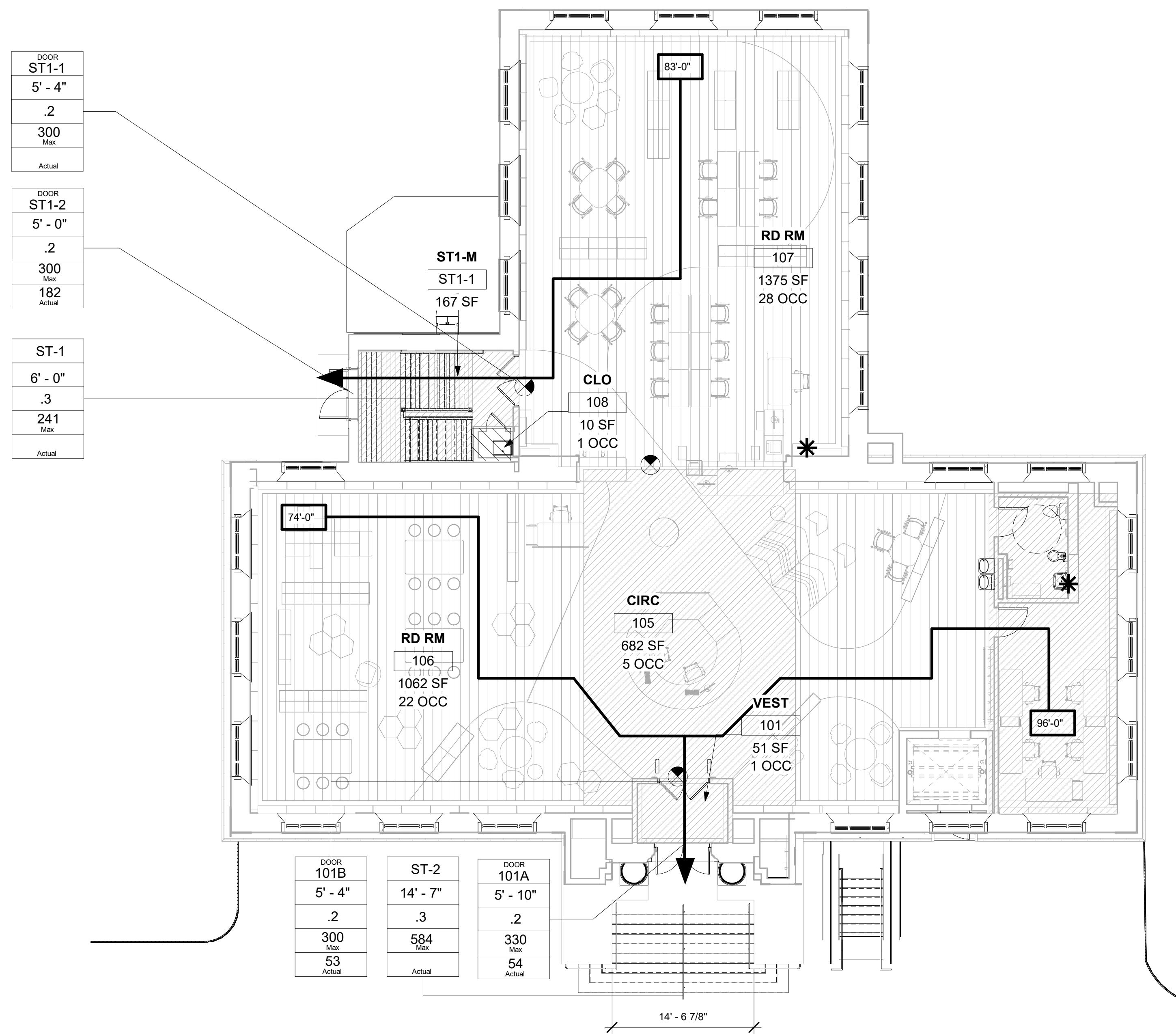
KEY PLAN



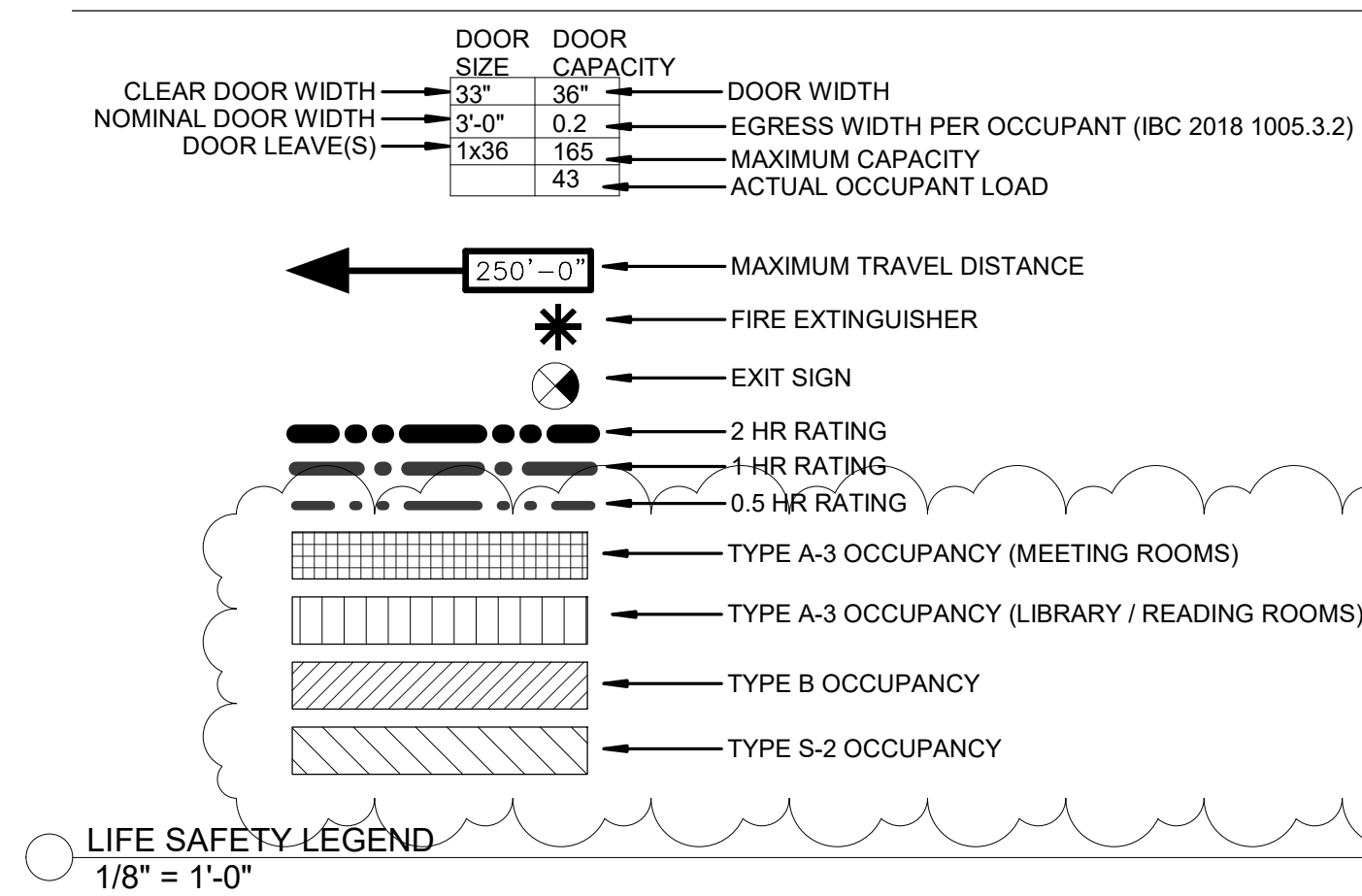
DRAWING TITLE
ZONING

PROJECT NO. 21070	DRAWING NO.
DATE 9/7/22	Z100-L
SCALE As indicated	
DRAWN BY A.F.	
CHECKED BY D.B.	

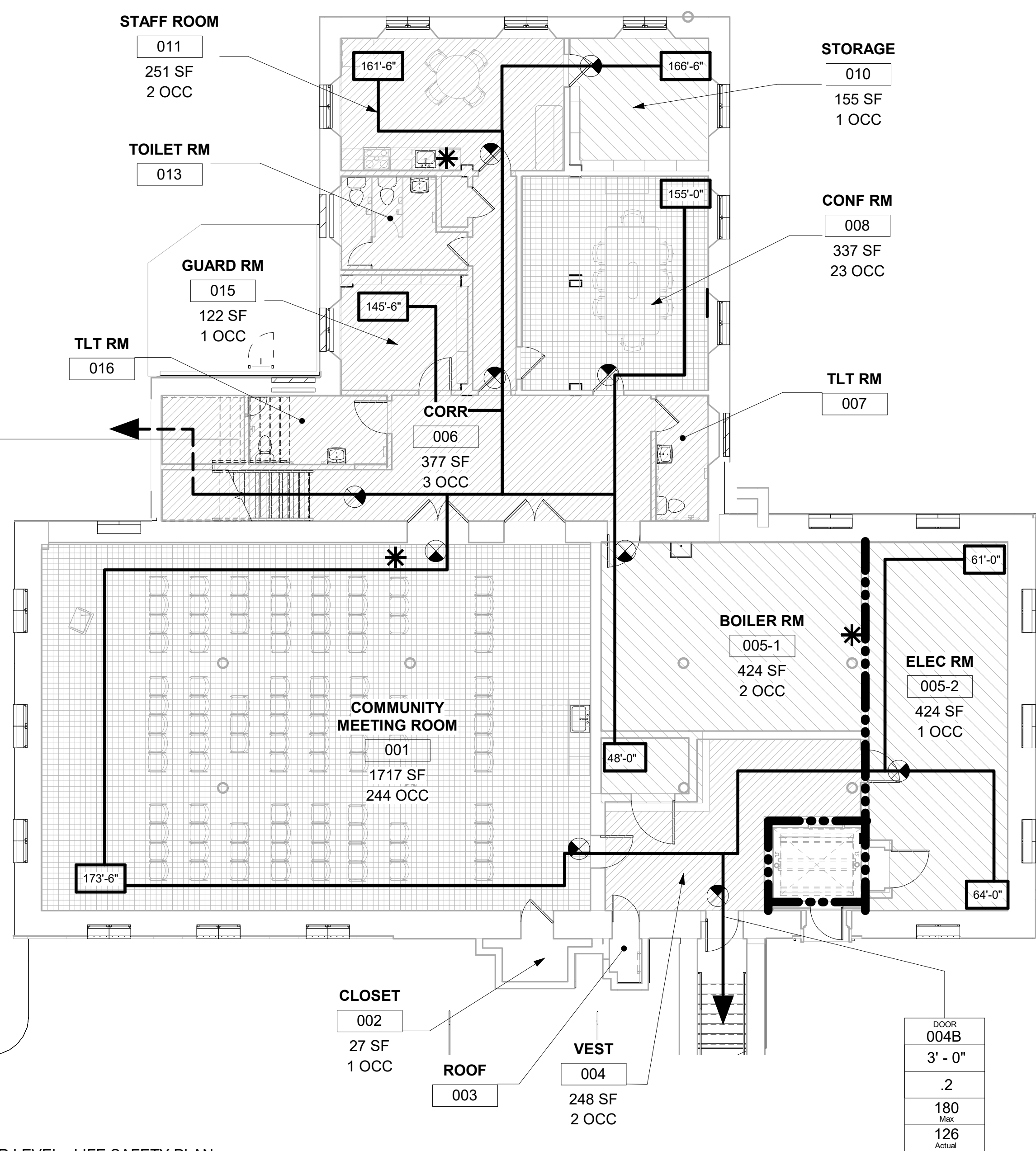
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



2. DOC_FIRST FLOOR - LIFE SAFETY PLAN
1/8" = 1'-0"



STAMP AREA



1. DOC_LOWER LEVEL - LIFE SAFETY PLAN
1/8" = 1'-0"

CODE DATA

Applicable Codes
The following primary codes are applicable to this project:
 • Building - 2018 Philadelphia Code, incorporating the 2018 International Building Code (IBC) with local modifications.
 • Accessibility - 2010 Philadelphia Code (2012 IBC chapter 11 and Appendix E as amended) and the Americans with Disabilities Act Guidelines (ADAAG).
 • Existing Building - 2018 International Existing Building Code (IEBC) as amended by the City of Philadelphia.
 • Fire Prevention - 2018 Philadelphia Fire Code (PFC). The PFC is an amended version of the 2009 International Fire Code (IFC).
 • Plumbing - 2018 City of Philadelphia Plumbing Code (PPC).

PHILADELPHIA EBC:
 CHAPTER 3
 SECTION 301.3.2
 THE WORK AREA COMPLIANCE METHOD WILL BE USED.
 SECTION 301.5
 ACCESSIBILITY WILL COMPLY WITH ICC A117.1 2017.
 SECTION 302.4
 EXISTING MATERIALS ALREADY IN USE MAY REMAIN.
 SECTION 302.5
 NEW MATERIALS MUST COMPLY WITH NEW CONSTRUCTION CRITERIA. LIKE MATERIALS SHALL BE PERMITTED FOR REPAIRS AND ALTERATIONS, PROVIDED THAT UNSAFE CONDITIONS ARE NOT CREATED.
 SECTION 305.6
 ALTERATIONS SHALL COMPLY WITH IBC CHAPTER 11 (ACCESSIBILITY), UNLESS TECHNICALLY INFEASIBLE. WHERE TECHNICALLY INFEASIBLE, ALTERATIONS SHALL PROVIDE ACCESS TO THE MAXIMUM EXTENT TECHNICALLY FEASIBLE.
 CHAPTER 8
 SECTION 804
 LEVEL 2 ALTERATIONS APPLY AS THE WORK AREA DOES NOT EXCEED 50% OF THE BUILDING AREA. ALTERATIONS SHALL COMPLY WITH CHAPTERS 7&8 OF IEBC.
 SECTION 807
 HISTORIC BUILDING PROVISIONS SHALL APPLY TO BUILDINGS CLASSIFIED AS HISTORIC. THE STRUCTURE IS LISTED ON PHILADELPHIA REGISTER OF HISTORIC PLACES.
 CHAPTER 7
 SECTION 702
 NEW ELEMENTS AND MATERIAL SHALL COMPLY WITH IBC CHAPTER 8 (INTERIOR FINISHES).
 SECTION 705
 ROOF REPLACEMENT SHALL COMPLY WITH REQUIREMENTS OF IBC CHAPTER 15 (ROOF ASSEMBLIES AND ROOFTOP STRUCTURES). THERE IS NO MINIMUM ROOF SLOPE REQUIREMENT PER 705.1 EXCEPTION 1.
 CHAPTER 8
 SECTION 802.4
 THE BUILDING IS NOT SPRINKLERED

PHILADELPHIA BC:
 USE GROUP (CHAPTER 3):
 ASSEMBLY (A3), ACCESSORY USES, BUSINESS (B), STORAGE (S-1)
 CONSTRUCTION TYPE (CHAPTER 6):
 IIB - EXTERIOR WALLS OF NONCOMBUSTIBLE MATERIALS. INTERIOR WALLS OF ANY MATERIAL PERMITTED BY THIS CODE.
 FIRE RESISTIVE CONSTRUCTION FOR BUILDING TYPE IIB (TABLE 601):

BUILDING ELEMENT	RATING (HOURS)
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS	
EXTERIOR	2
INTERIOR	0
INTERIOR NON-BEARING WALLS & PARTITIONS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

FIRE RESISTIVE CONSTRUCTION OF SHAFTS (SECTION 713.4)
 SHAFTS BETWEEN STORIES 1 HOUR
 FIRE RESISTIVE CONSTRUCTION OF CORRIDORS (TABLE 1020.1)
 BUSINESS 0 HOURS
 STORAGE 0 HOURS
 FIRE DOOR ASSEMBLY PERFORMANCE REQUIREMENTS (SECTION 716.2.2)
 1 HOUR SHAFT ENCLOSURE (STAIRWAYS) 1 HOUR (TABLE 716.1(2))
 0.5 HOUR CORRIDOR 1/3 HOUR (TABLE 716.1(2))

KITCHEN
 COOKING APPLIANCES USED FOR DOMESTIC COOKING OPERATIONS SHALL BE IN ACCORDANCE WITH SECTION 917.2 OF THE INTERNATIONAL MECHANICAL CODE (SECTION 420.9)
 MIXED USE OCCUPANCIES (SECTION 508):
 OCCUPANCIES ARE NONSEPARATED
 - THE MOST RESTRICTIVE APPLICABLE PROVISIONS OF CHAPTER 9 SHALL APPLY TO THE BUILDING (SECTION 508.3.1).
 - THE ALLOWABLE BUILDING AREA AND HEIGHT OF THE BUILDING SHALL BE BASED ON THE MOST RESTRICTIVE ALLOWANCES FOR THE OCCUPANCY GROUPS UNDER CONSIDERATION IN ACCORDANCE WITH SECTION 503.1 (SECTION 508.3.2).

CHAPTER 5

General Building Heights and Areas
 Section 503 The height and area for buildings of different construction types shall be governed by the intended use of the building and shall not exceed the limits in Table 503 except as modified hereafter:

TABLE 504.4	IIB, A-3, NON SPRINKLERED	
	ALLOWABLE	PROPOSED
HEIGHT	55 FT	NO CHANGE (24 FT)
STORIES	2	NO CHANGE (1)
AREA	9,500 SF	-
TOTAL AREA	19,000 SF	4,058 SF

NOTE: THE LEGAL POSTED OCCUPANCY FOR MEETING ROOM 001 IS 109. FOR PURPOSES OF EGRESS CAPACITY, THE PRESCRIBED OCCUPANCY AT 15 NSF/OCC IS USED.

Required Separation of Occupancies

Section 508 Where a building or portion thereof contains two or more occupancies or uses, the building or portion thereof shall comply with the required separations shown in Table 508.3.3.

508.3 NONSEPARATED OCCUPANCIES

CHAPTER 10

Means of Egress
 Section 1004 The number of occupants computed based on the maximum floor area allowances per occupant prescribed in Table 1004.1.1

TABLE 1004.5: MAXIMUM FLOOR AREA AREA ALLOWANCES PER OCCUPANT

SPACE/AREA	FLOOR AREA PER OCCUPANT (SF)	OCCUPANT LOAD
ASSEMBLY (MULTIPLE)	15 / 7 NET	267
BUSINESS	150 GROSS	16
LIBRARY	50 NET	63
STORAGE	300 GROSS	8
TOTAL OCC LOAD:		
LOWER LEVEL:		282
1ST FLOOR:		72
		354

Minimum Required Egress Width

Section 1005 The means of egress width shall not be less than required by this section. The total width of means of egress in inches shall not be less than that of the total occupant load served by the means of egress multiplied by the factors in Table 1005.1 and not less than specified elsewhere in this code. Multiple means of egress shall be sized such that the loss of any one means of egress shall not reduce the available capacity to less than 50% of the required capacity. The maximum capacity required from any story of a building shall be maintained to the termination of the means of egress.

TABLE 1005.1: EGRESS WIDTH PER OCCUPANT SERVED

OCCUPANCY	WITHOUT SPRINKLERS SYSTEM		WITH SPRINKLERS SYSTEM	
	Stairways (inches per occupants)	Other egress components (inches per occupants)	Stairways (inches per occupants)	Other egress components (inches per occupants)
OCCUPANCIES OTHER THAN HAZARDOUS & INSTITUTIONAL	30	20	N/A	N/A

DOORS SERVING A LOAD OF 49 OR LESS MAY SWING IN THE DIRECTION OPPOSITE OF EGRESS (1010.1.2.1). EGRESS FROM A ROOM OR SPACE SHALL BE ALLOWED TO PASS THROUGH AN ADJOINING OR INTERVENING ROOM OR AREA WHERE THE AREA SERVED IS ACCESSORY TO ONE OR THE OTHER AND PROVIDE A DISCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT (1016.2 ITEM 2).

MAXIMUM TRAVEL DISTANCE: 200 FEET (TABLE 1017.1).
 ACTUAL MAXIMUM TRAVEL DISTANCE: 173'-0" (TABLE 1020.1)
 CORRIDOR FIRE RATING: 1 HR. (TABLE 1020.1)

ACCESSIBILITY:
 NEW CONSTRUCTION SHALL BE ACCESSIBLE AND IN ACCORDANCE WITH ICC A117.1 2009 (1102.1).

PHILADELPHIA EBC:
 COMMERCIAL BUILDINGS: FOR THIS CODE, ALL BUILDINGS THAT ARE NOT INCLUDED IN THE DEFINITION OF "RESIDENTIAL BUILDING."
 SECTION C301.1
 CLIMATE ZONE: 4A
 SECTION C402.1
 ROOF INSULATION SHALL BE R-30 CI IN ACCORDANCE WITH TABLE C402.1.3 (CLIMATE ZONE 4, INSULATION ENTIRELY ABOVE ROOF DECK).
 SECTION C503.1
 ALTERATIONS COMPLYING WITH ANSII/AIA/ESNA 90.1 NEED NOT COMPLY WITH SECTION C402, C403, C404 AND C405.

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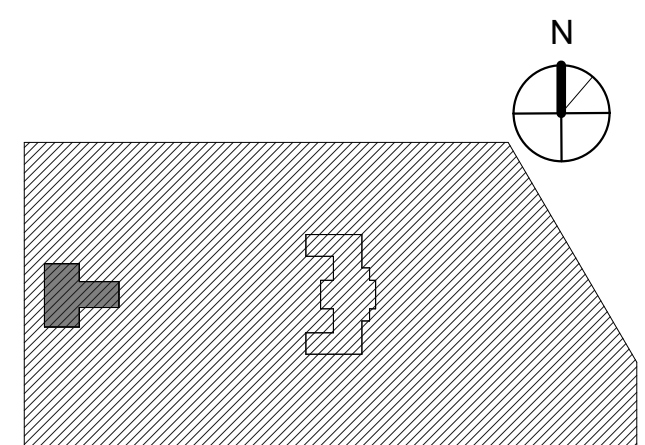
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PROJECT TITLE
 KINGSESSING LIBRARY BUILDING
 RENOVATIONS AND SITE
 IMPROVEMENTS

KEY PLAN



DRAWING TITLE
 CODE REVIEW AND LIFE
 SAFETY PLANS

PROJECT NO.

21070

DRAWING NO.

LS101-L

DATE

9/7/22

SCALE

1/8" = 1'-0"

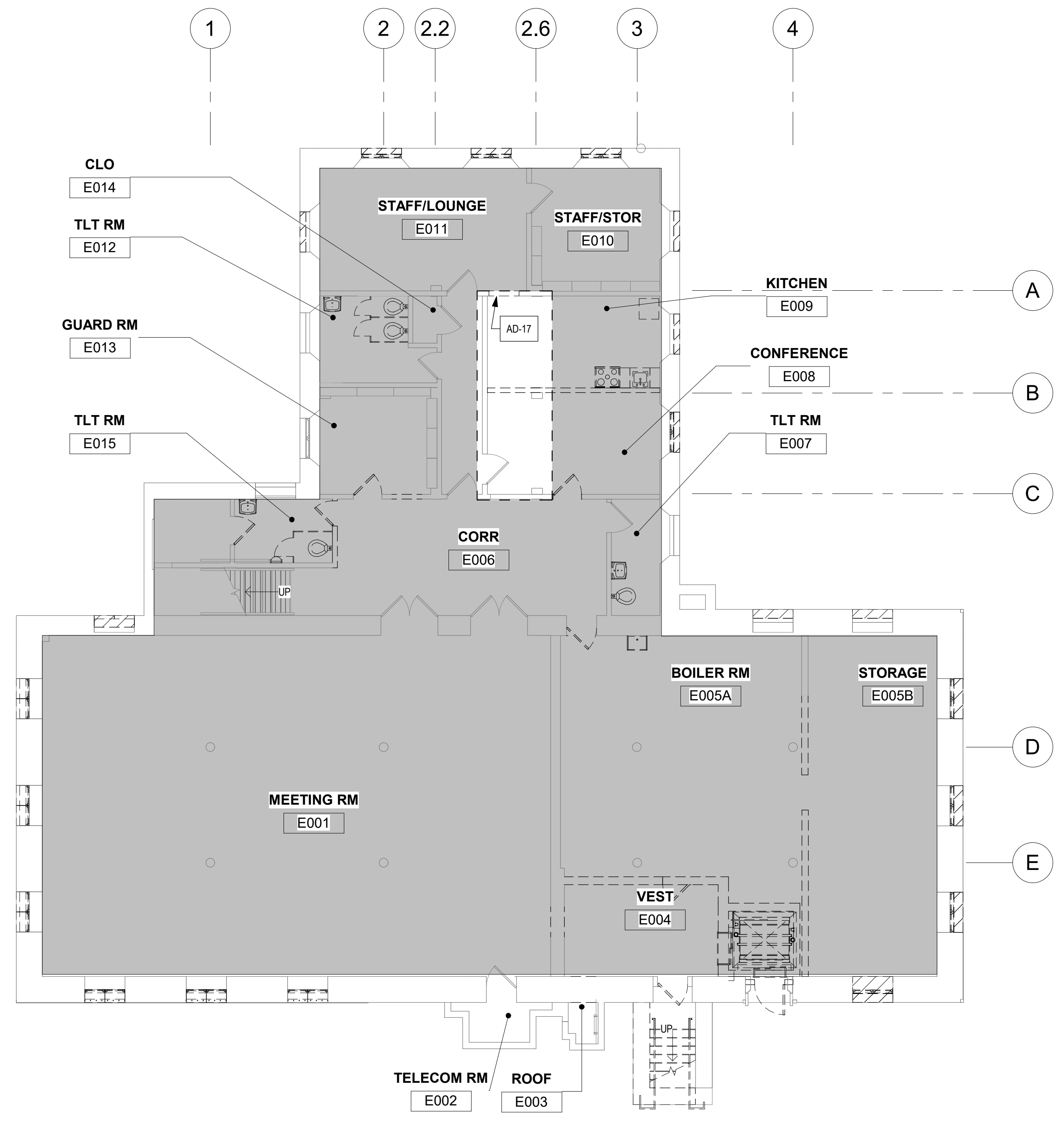
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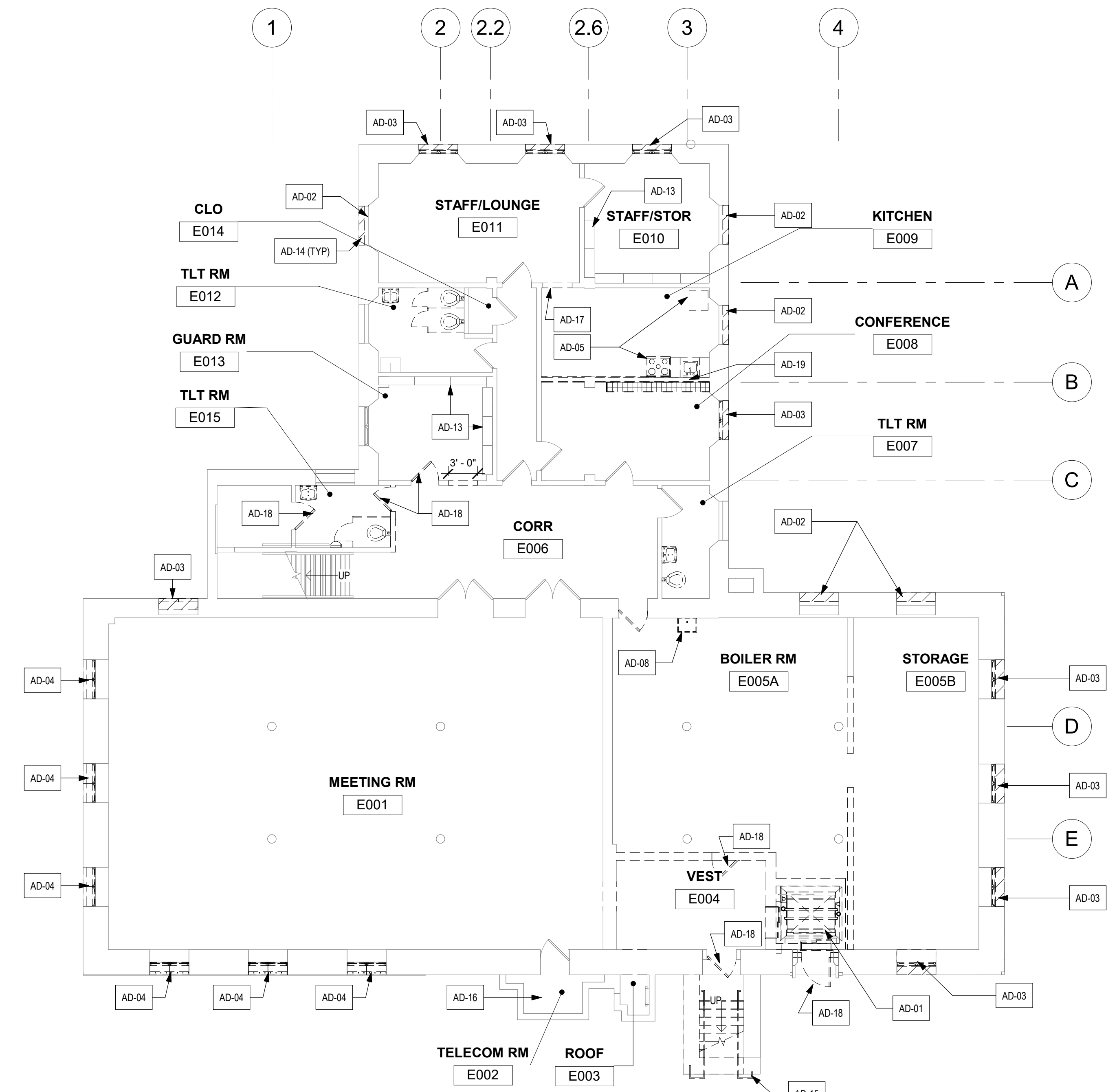
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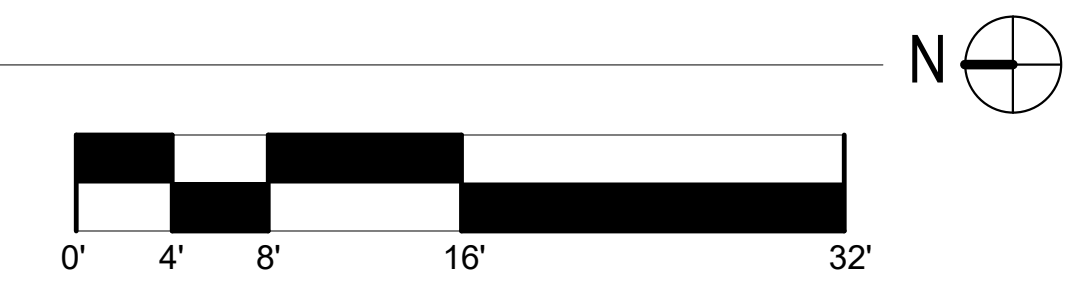


2 LOWER LEVEL - DEMOLITION PLAN BASE SCOPE
1/8" = 1'-0"

- ALTERNATE NO. 1**
- SEE LANDSCAPE DRAWINGS
- ALTERNATE NO. 2**
- NEW STORAGE CLOSETS AT ENLARGED CONFERENCE ROOM - SEE NEW WORK
- ALTERNATE NO. 3**
- ADD BI-FOLD DOORS (SEE A102.4)



1 LOWER LEVEL - DEMOLITION PLAN BASE SCOPE
1/8" = 1'-0"



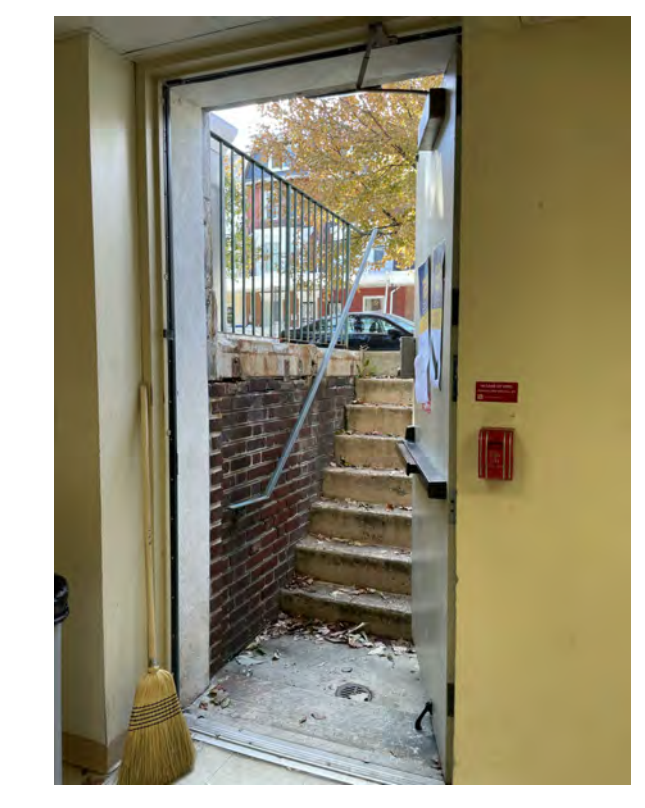
- GENERAL DEMOLITION NOTES:
- REMOVE INTERIOR WALLS AND DOORS (SHOWN DASHED) WITHIN AREAS OF GENERAL DEMOLITION. TAKE ALL PRECAUTIONS NECESSARY TO PREVENT AND AVOID DAMAGE TO STRUCTURE AND FINISHES TO REMAIN.
 - REMOVE DOORS OR DOORS AND FRAME (SEE KEYNOTE AD-18); AT DOORS TO REMAIN, REMOVE HARDWARE AS SCHEDULED. SEE DOOR SCHEDULE FOR LOCATIONS & TREATMENT.
 - REMOVE ALL TOILET ROOM FIXTURES, ACCESSORIES, AND FINISHES - SEE PLUMBING DWGS.
 - CHEMICALLY REMOVE EXISTING FLOOR SEALER ON ALL EXPOSED CONCRETE SLABS IN AREAS OF GENERAL DEMOLITION. PREPARE FLOOR FOR NEW SEALER, OR FLOOR FINISH. REFER TO FINISH SPECS.
 - REMOVE FLOOR FINISHES AND BASE THROUGHOUT. PATCH AND CLEAN SUBSTRATES AS NECESSARY TO RECEIVE NEW FINISHES. PATCH AND REPAIR ANY DAMAGED FLOOR OR IRREGULARITIES, INCLUDING DEPRESSIONS AND CRACKS TO PREPARE FOR NEW FINISHES.
 - SEE STRUCTURAL DRAWINGS FOR DEMOLITION OF ANY STRUCTURAL ITEMS OR SYSTEMS.
 - SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR DEMOLITION OF HVAC, PLUMBING AND ELECTRICAL SYSTEMS.
 - PATCH AND REPAIR FLOORS, WALLS, AND CEILING SURFACES TO REMAIN, AS AFFECTED BY DEMOLITION.
 - LIBRARY STAFF - MOVE COORDINATOR WILL DETERMINE WHAT IS SALVAGED. GC/DEMO CONTRACTOR TO DEFER TO MOVE COORDINATOR.
 - SEE DRAWINGS AD201-L AND AD202-L ELEVATIONS FOR WINDOW AND WINDOW INFILL DEMOLITION.
 - SEE DRAWINGS AD201-L AND AD202-L ELEVATIONS FOR EXTERIOR WORK.

- KEY NOTES: BASE BID
- AD-01 REMOVE ELEVATOR, ELEVATOR SHAFT AND PIT
 - AD-02 REMOVE WINDOW INFILL (AND LOUVER WHERE PRESENT) - SEE ALSO ELEVATIONS
 - AD-03 REMOVE WINDOW AND INFILL - SEE ALSO ELEVATIONS
 - AD-04 REMOVE WINDOW - SEE ALSO ELEVATIONS
 - AD-05 REMOVE CABINETS, COUNTERTOPS AND ASSOCIATED KITCHEN EQUIPMENT & APPLIANCES. ANY SALVAGE RETURN TO OWNER.
 - AD-06 REMOVE CIRCULATION DESK AND ALL ASSOCIATED WIRING
 - AD-07 REMOVE SECURITY GATES
 - AD-08 REMOVE JAN SINK. SEE PLUMBING DRAWINGS
 - AD-09 REMOVE EWC. SEE PLUMBING & ELEC DRAWINGS
 - AD-10 REMOVE WINDOW TREATMENT AND ALL ASSOCIATED HARDWARE
 - AD-12 REMOVE RADIATORS, AND ASSOCIATED PIPING. SEE MECH DWGS. REMOVE PORTION OF WALL AT EACH RADIATOR TO FACILITATE PIPING REMOVALS AS NEEDED. PATCH AND REPAIR. SALVAGE (E) GRILLES FOR REUSE.
 - AD-13 EXIST BUILT-IN SHELVING TO REMAIN.
 - AD-14 REMOVE PORTION OF MASONRY WALL FOR NEW LOUVER WHERE SCHEDULED OR FOR BRICK REPLACEMENT - SEE ELEVATIONS AND MEC DRAWINGS.
 - AD-15 DEMOLISH EXISTING STAIR AND HANDRAILS. PREP FOR NEW STAIR. SALVAGE GRANITE CURBS FOR REUSE.
 - AD-16 (E) TELECOM ROOM TO BE RELOCATED. EQUIPMENT TO BE REMOVED BY OTHERS; REMOVE REMAINING MOUNTING BOARDS, ETC.
 - AD-17 REMOVE (E) CASED OPENING INCLUDING WD FRAME
 - AD-18 REMOVE (E) DOOR AND FRAME
 - AD-19 REMOVE PORTION OF CONCRETE FLOOR FOR INSTALLATION OF (N) WIRE MANAGEMENT SYSTEM - SEE ELEC.

LEGEND

- (E) WINDOW OR DOOR INFILL TO BE REMOVED - SEE ELEVATIONS
- NOT IN ALTERNATE SCOPE
- EXISTING WALL / PARTITION TO REMAIN
- EXISTING WALL / PARTITION TO BE REMOVED
- AREA OF FLOOR TO BE DEMO'D
- AREA NOT IN ALTERNATE SCOPE
- EXISTING DOOR & FRAME TO REMAIN
- EXISTING DOOR & FRAME TO BE REMOVED

STAMP AREA



3 AD-15 LOWER STAIR



6 AD-05 KITCHEN



7 AD-02 WINDOW INFILLS



REVISIONS

ISSUE	DATE	DESCRIPTION
0	09/07/22	ISSUE FOR BID
1	09/26/22	ISSUE FOR BID



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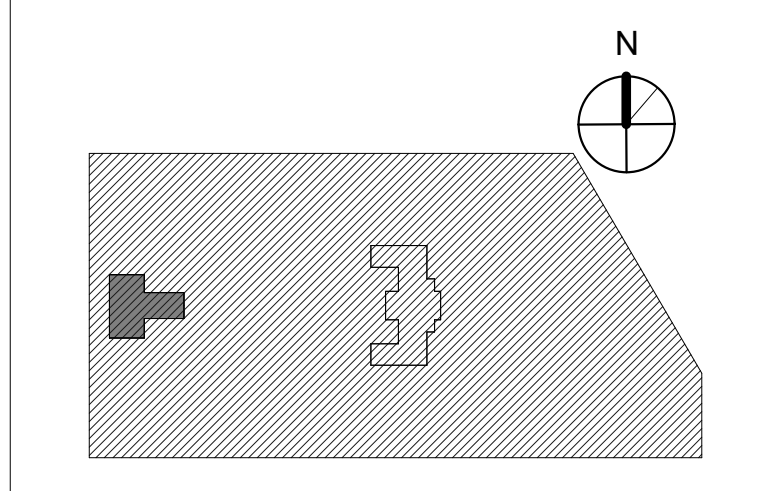


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PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
KINGSESSING LIBRARY BUILDING RENOVATIONS AND SITE IMPROVEMENTS

KEY PLAN



DRAWING TITLE
DEMOLITION PLAN - LOWER LEVEL

PROJECT NO. 21070	DRAWING NO.
DATE 9/7/22	AD101-L
SCALE As indicated	
DRAWN BY A.F.	
CHECKED BY D.B.	

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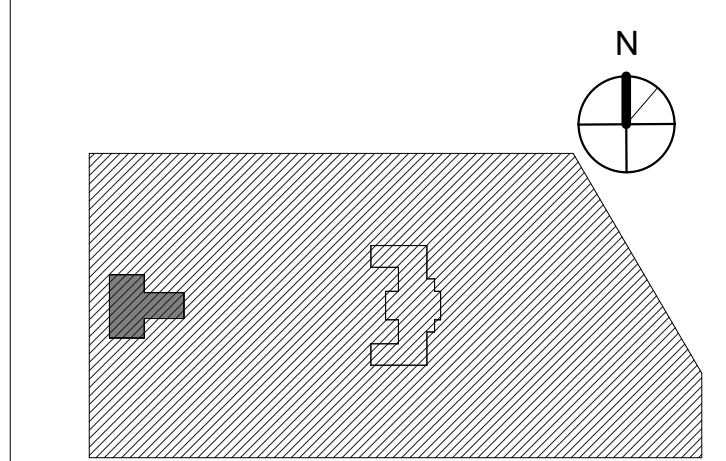


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PROJECT TITLE
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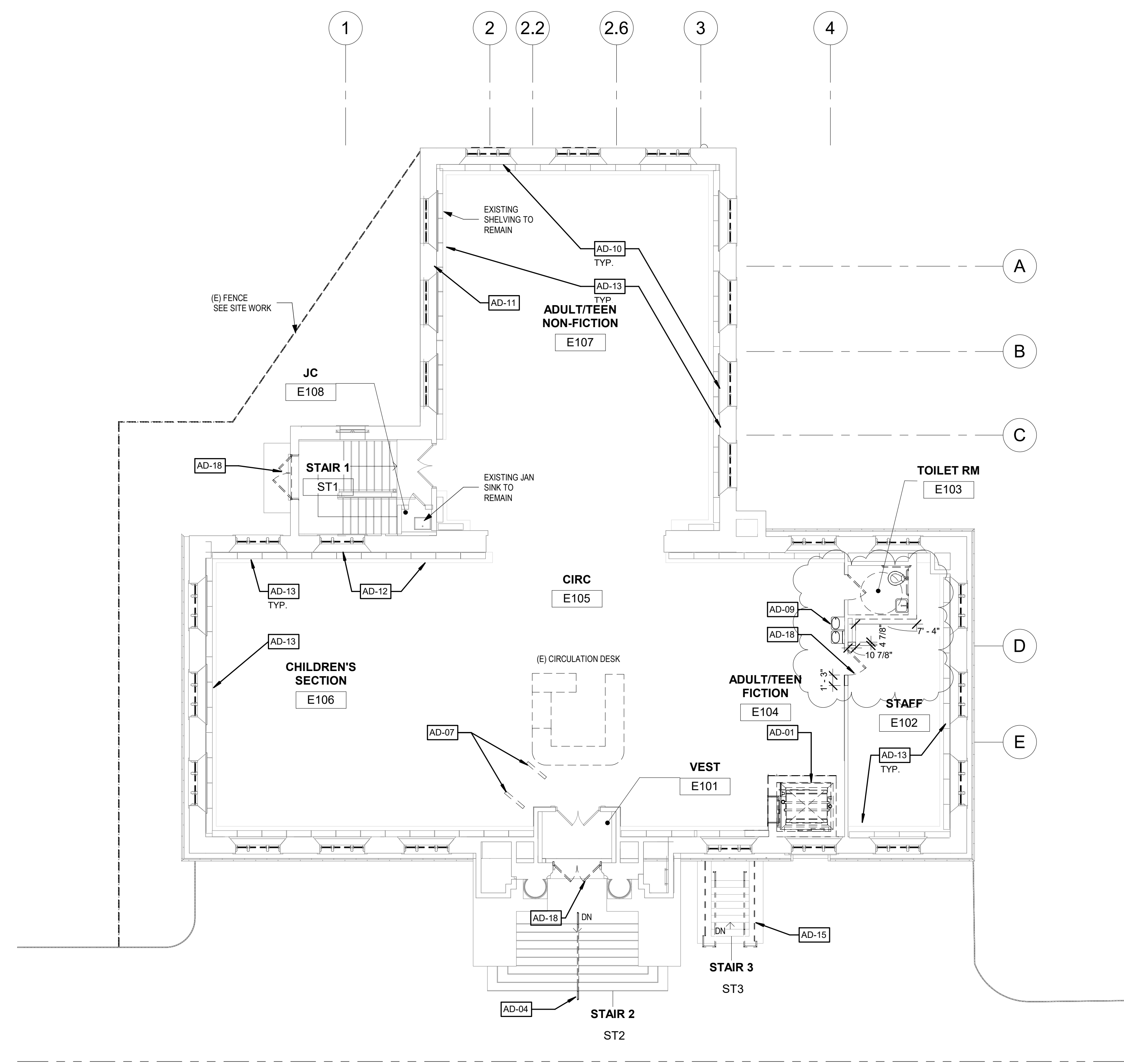
KEY PLAN



DRAWING TITLE
DEMOLITION PLAN - FIRST FLOOR

PROJECT NO. 21070	DRAWING NO.
DATE 9/7/22	AD102-L
SCALE As indicated	
DRAWN BY A.F.	
CHECKED BY D.B.	

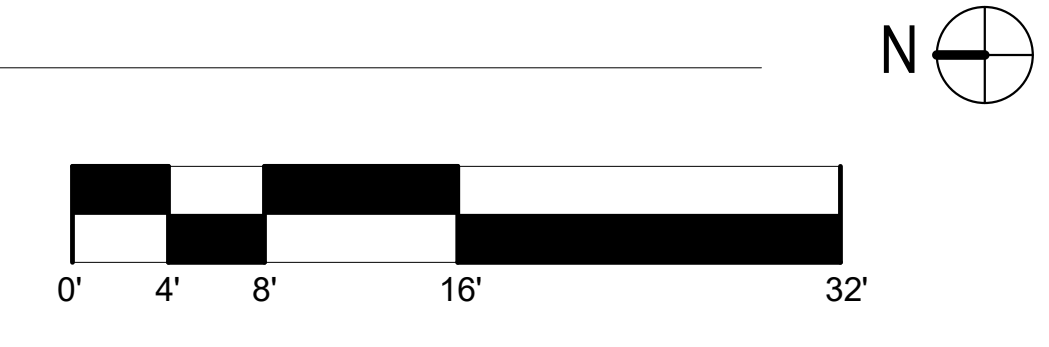
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



- GENERAL DEMOLITION NOTES:**
- REMOVE INTERIOR WALLS AND DOORS (SHOWN DASHED) WITHIN AREAS OF GENERAL DEMOLITION. TAKE ALL PRECAUTIONS NECESSARY TO PREVENT AND AVOID DAMAGE TO STRUCTURE AND FINISHES TO REMAIN.
 - REMOVE DOORS OR DOORS AND FRAME (SEE KEYNOTE AD-16); AT DOORS TO REMAIN, REMOVE HARDWARE AS SCHEDULED. SEE DOOR SCHEDULE FOR LOCATIONS & TREATMENT.
 - REMOVE ALL TOILET ROOM FIXTURES, ACCESSORIES, AND FINISHES - SEE PLUMBING DWGS.
 - CHEMICALLY REMOVE EXISTING FLOOR SEALER ON ALL EXPOSED CONCRETE SLABS IN AREAS OF GENERAL DEMOLITION. PREPARE FLOOR FOR NEW SEALER, OR FLOOR FINISH. REFER TO FINISH SPECS.
 - REMOVE FLOOR FINISHES AND BASE THROUGHOUT. PATCH AND CLEAN SUBSTRATES AS NECESSARY TO RECEIVE NEW FINISHES. PATCH AND REPAIR ANY DAMAGED FLOOR OR IRREGULARITIES INCLUDING DEPRESSIONS AND CRACKS TO PREPARE FOR NEW FINISHES.
 - SEE STRUCTURAL DRAWINGS FOR DEMOLITION OF ANY STRUCTURAL ITEMS OR SYSTEMS.
 - SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR DEMOLITION OF HVAC, PLUMBING AND ELECTRICAL SYSTEMS.
 - PATCH AND REPAIR FLOORS, WALLS, AND CEILING SURFACES TO REMAIN, AS AFFECTED BY DEMOLITION.
 - LIBRARY STAFF + MOVE COORDINATOR WILL DETERMINE WHAT IS SALVAGED. GC/DEMO CONTRACTOR TO DEFER TO MOVE COORDINATOR.
 - SEE DRAWINGS AD201-L AND AD202-L ELEVATIONS FOR WINDOW AND WINDOW INFILL DEMOLITION.
 - SEE DRAWINGS AD201-L AND AD202-L ELEVATIONS FOR EXTERIOR WORK.

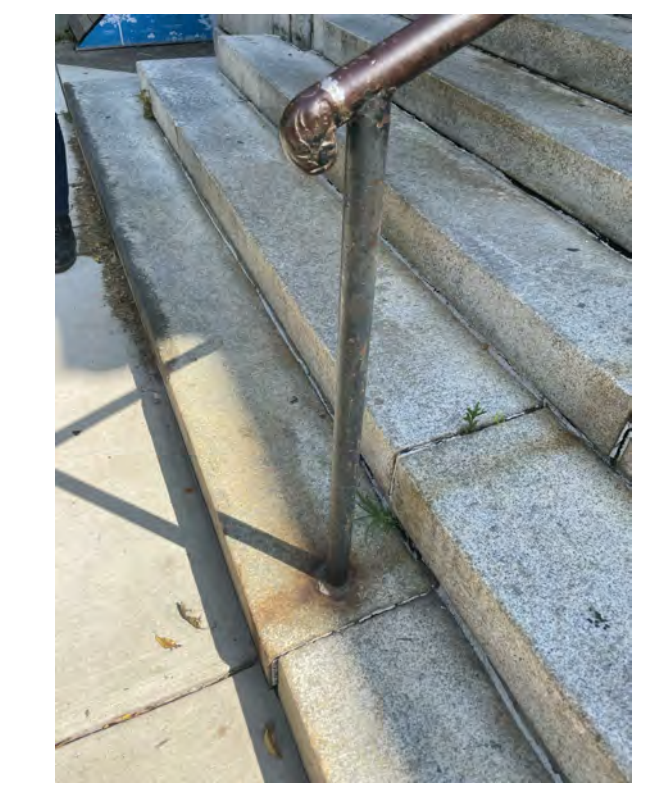
- KEY NOTES: BASE BID**
- AD-01 REMOVE ELEVATOR, ELEVATOR SHAFT AND PIT
 - AD-02 REMOVE WINDOW INFILL. SEE ELEVATIONS
 - AD-03 REMOVE LOUVERS; SEE ALSO ELEVATIONS
 - AD-04 REMOVE AND REPLICATE RAIL - SEE DETAILS
 - AD-05 REMOVE CABINETS, COUNTERTOPS AND ASSOCIATED KITCHEN EQUIPMENT & APPLIANCES. ANY SALVAGE RETURN TO OWNER.
 - AD-06 REMOVE CIRCULATION DESK AND ALL ASSOCIATED WIRING
 - AD-07 REMOVE SECURITY GATES
 - AD-08 REMOVE JAN SINK. SEE PLUMBING DRAWINGS
 - AD-09 REMOVE EWC. SEE PLUMBING & ELEC DRAWINGS
 - AD-10 REMOVE WINDOW TREATMENT AND ALL ASSOCIATED HARDWARE
 - AD-11 BANNER RODS TO BE REMOVED AND SALVAGED. REPAIR WALLS AND FINISH AS SCHEDULED.
 - AD-12 REMOVE RADIATORS, AND ASSOCIATED PIPING. SEE MECH DWGS. REMOVE PORTION OF WALL AT EACH RADIATOR TO FACILITATE PIPING REMOVAL AS NEEDED. PATCH AND REPAIR. SALVAGE (E) GRILLES FOR REUSE.
 - AD-13 EXIST BUILT-IN SHELVING TO REMAIN.
 - AD-14 REMOVE PORTION OF MASONRY WALL FOR NEW LOUVER WHERE SCHEDULED OR FOR BRICK REPLACEMENT - SEE ELEVATIONS AND MEC DRAWINGS.
 - AD-15 DEMOLISH EXISTING STAIR AND HANDRAILS. PREP FOR NEW STAIR. SALVAGE GRANITE CURBS FOR REUSE.
 - AD-16 (E) TELECOM ROOM TO BE RELOCATED. EQUIPMENT TO BE REMOVED BY OTHERS. REMOVE REMAINING MOUNTING BOARDS, ETC.
 - AD-17 REMOVE (E) CASED OPENING INCLUDING WD FRAME
 - AD-18 REMOVE (E) DOOR AND FRAME

1 FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"



- LEGEND**
- EXISTING WALL / PARTITION TO REMAIN
 - EXISTING WALL / PARTITION TO BE REMOVED
 - EXISTING DOOR & FRAME TO REMAIN
 - EXISTING DOOR & FRAME TO BE REMOVED

STAMP AREA



3 AD-04 RAILING AT MAIN STAIR



4 AD-15 LOWER STAIR



5 AD-12 RADIATOR & AD-13 SHELVING



6 AD-06 CIRC. DESK

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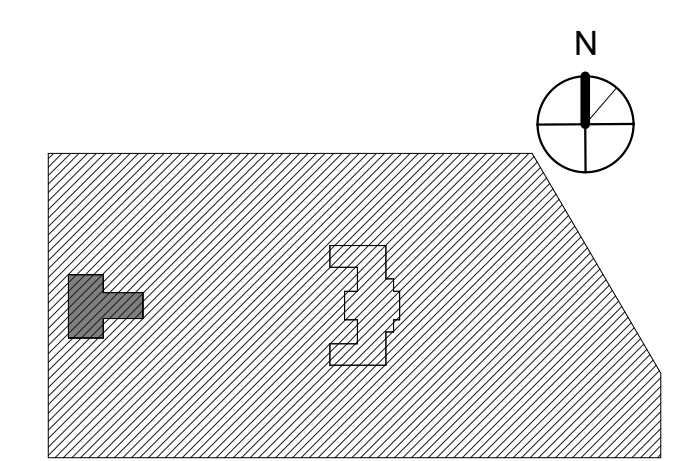


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PROJECT TITLE
**KINGSESSING LIBRARY BUILDING
 RENOVATIONS AND SITE
 IMPROVEMENTS**

KEY PLAN



DRAWING TITLE
DEMOLITION RCP

PROJECT NO. 21070	DRAWING NO. AD103-L
DATE 9/7/22	
SCALE As indicated	
DRAWN BY A.F.	
CHECKED BY D.B.	

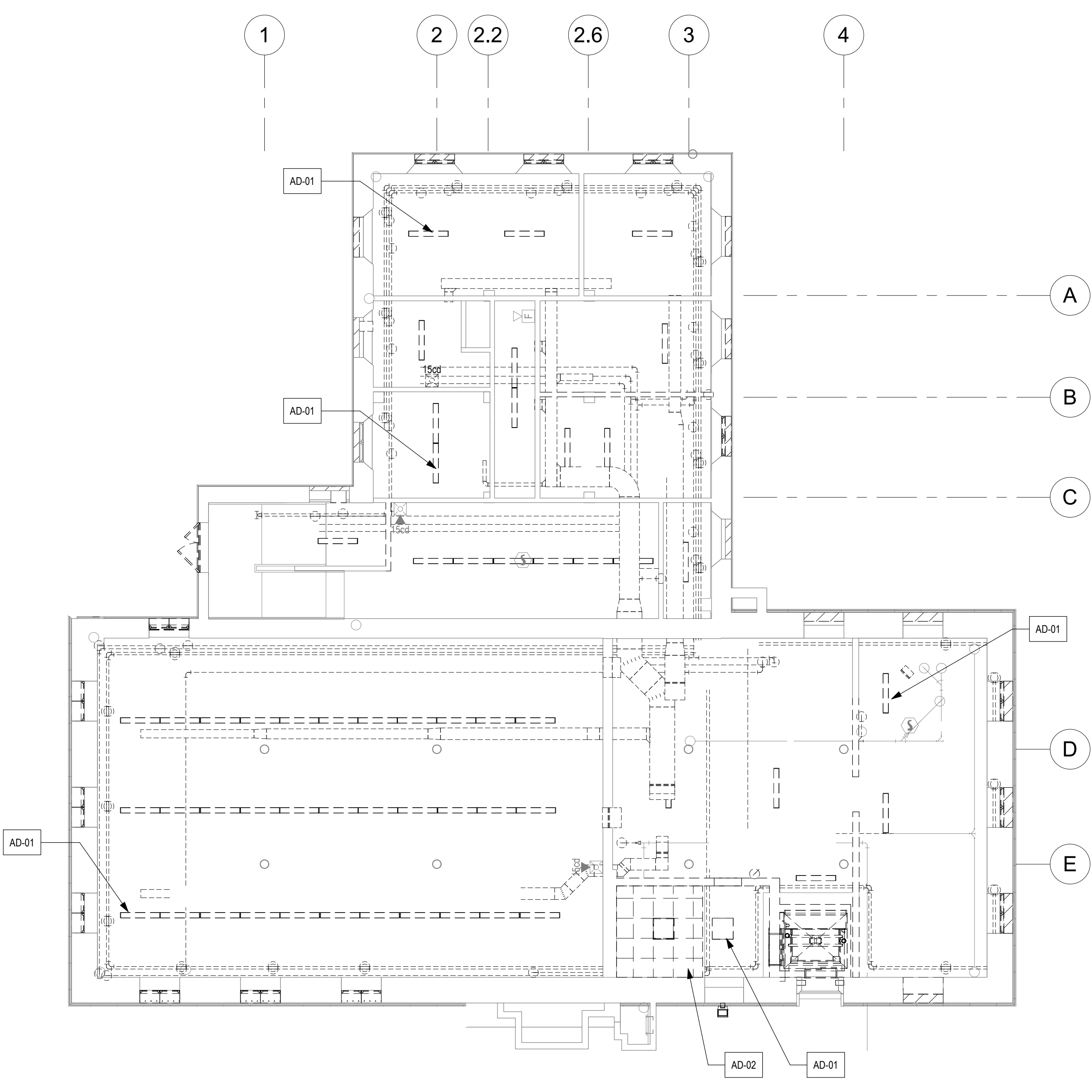
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

GENERAL DEMOLITION NOTES:

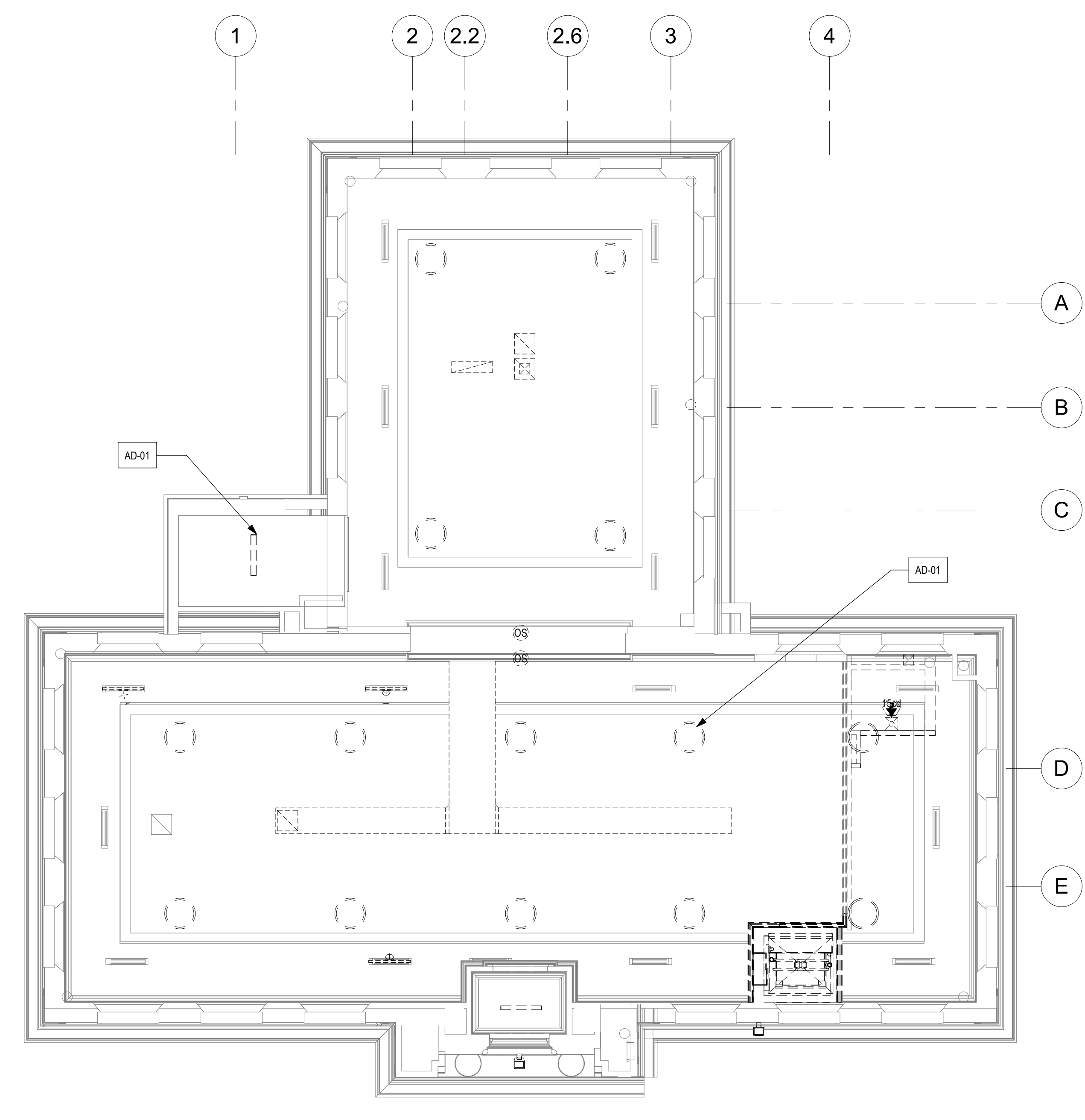
- REMOVE INTERIOR LIGHT FIXTURES (SHOWN DASHED) WITHIN AREAS OF GENERAL DEMOLITION. TAKE ALL PRECAUTIONS NECESSARY TO PREVENT AND AVOID DAMAGE TO STRUCTURE AND FINISHES TO REMAIN.
- PATCH AND CLEAN SUBSTRATES AS NECESSARY TO RECEIVE NEW FINISHES. PATCH AND REPAIR ANY DAMAGED CEILING OR IRREGULARITIES INCLUDING DEPRESSIONS AND CRACKS TO PREPARE FOR NEW FINISHES.
- SEE STRUCTURAL DRAWINGS FOR DEMOLITION OF ANY STRUCTURAL ITEMS OR SYSTEMS.
- SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR DEMOLITION OF HVAC, PLUMBING AND ELECTRICAL SYSTEMS.
- PATCH AND REPAIR FLOORS, WALLS, AND CEILING SURFACES TO REMAIN, AS AFFECTED BY DEMOLITION.
- ALL MATERIALS AND EQUIPMENT NOTED TO BE SALVAGED SHALL BE REMOVED AND STORED ON-SITE IN LOCATION DESIGNATED BY OWNER.

KEY NOTES: BASE BID

- AD-01 REMOVE LIGHT FIXTURES - SEE ELEC DRAWINGS.
- AD-02 REMOVE ACT AS SHOWN



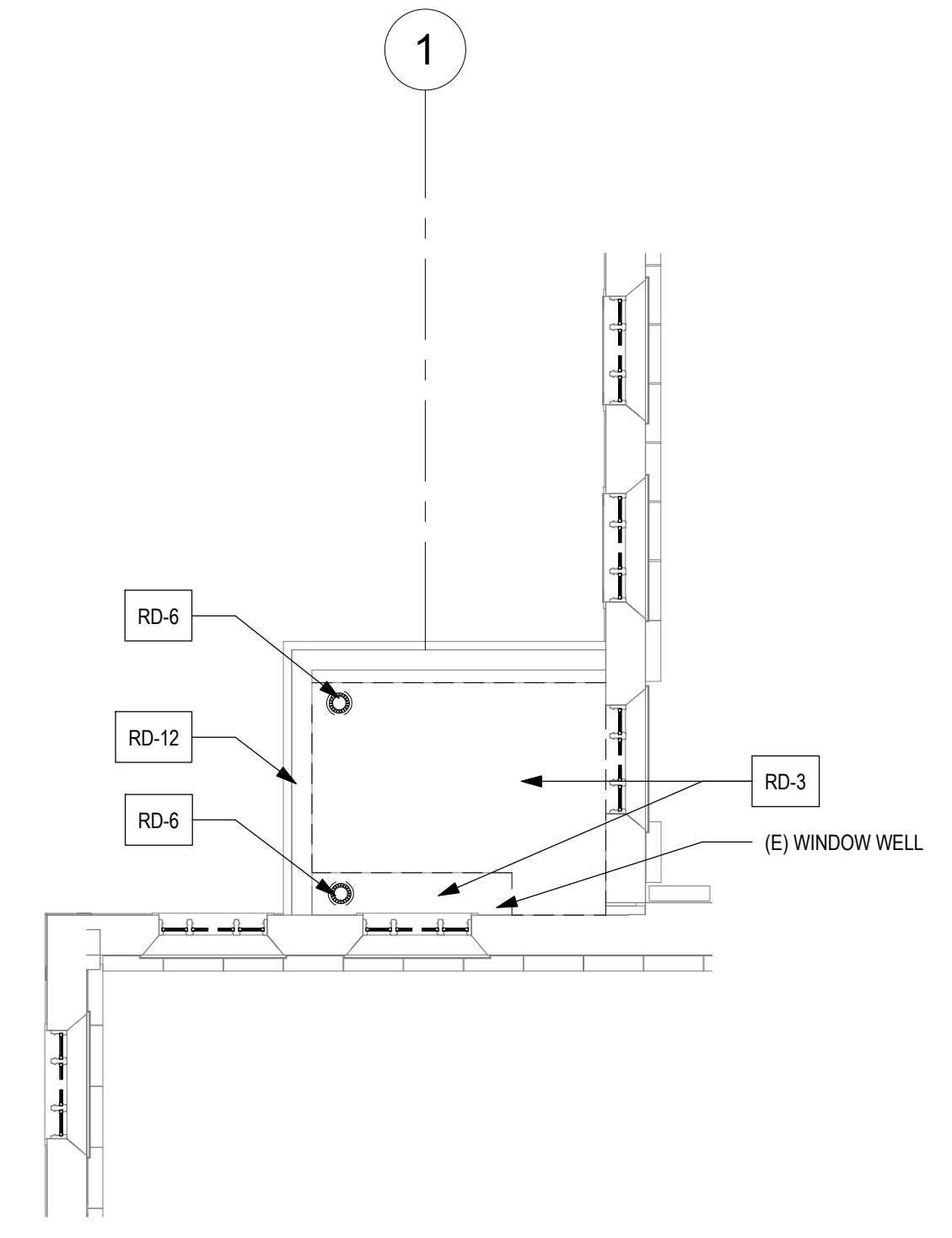
② LOWER LEVEL RCP - DEMO
 1/8" = 1'-0"



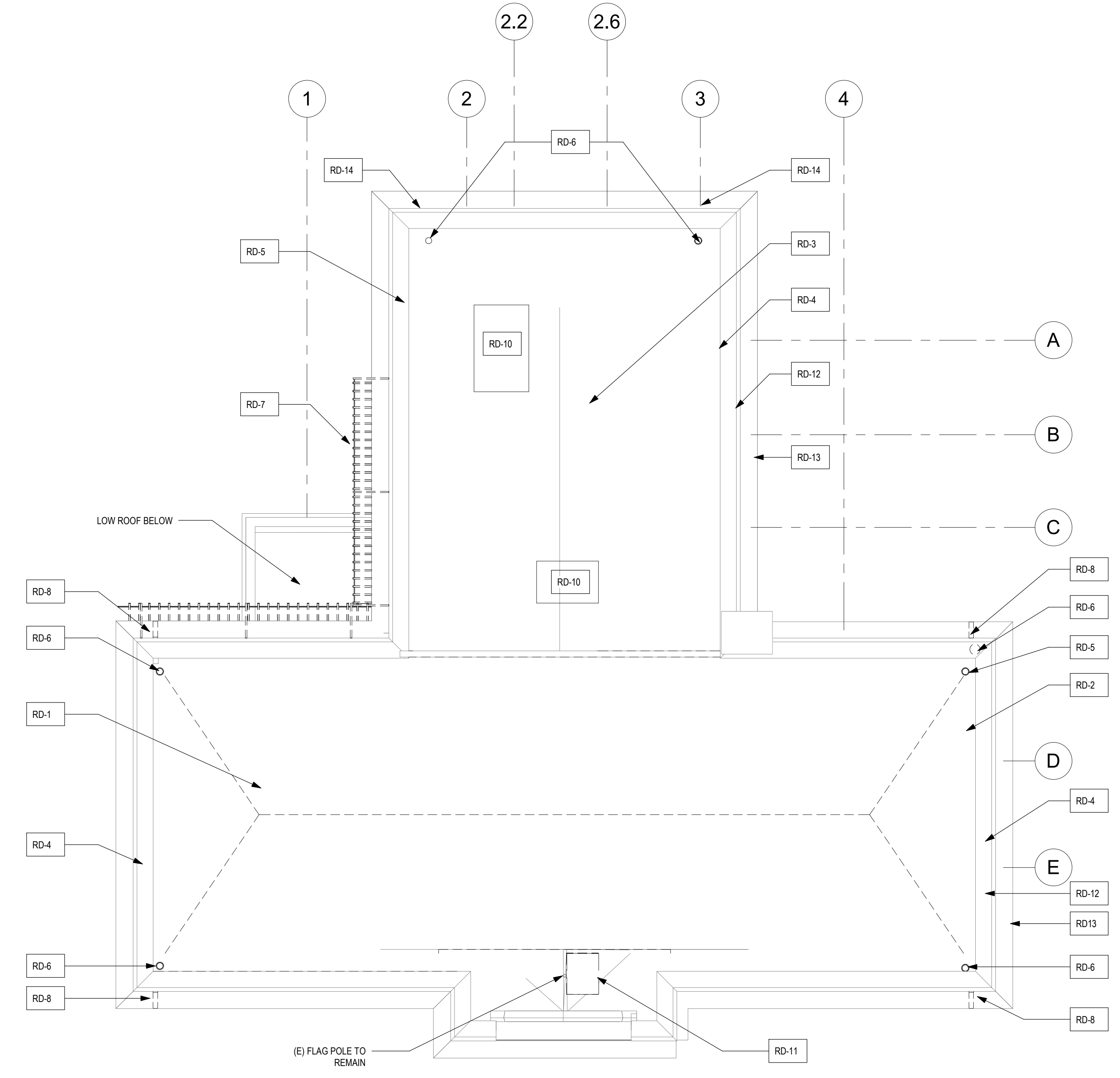
① FIRST FLOOR RCP - DEMO
 1/8" = 1'-0"



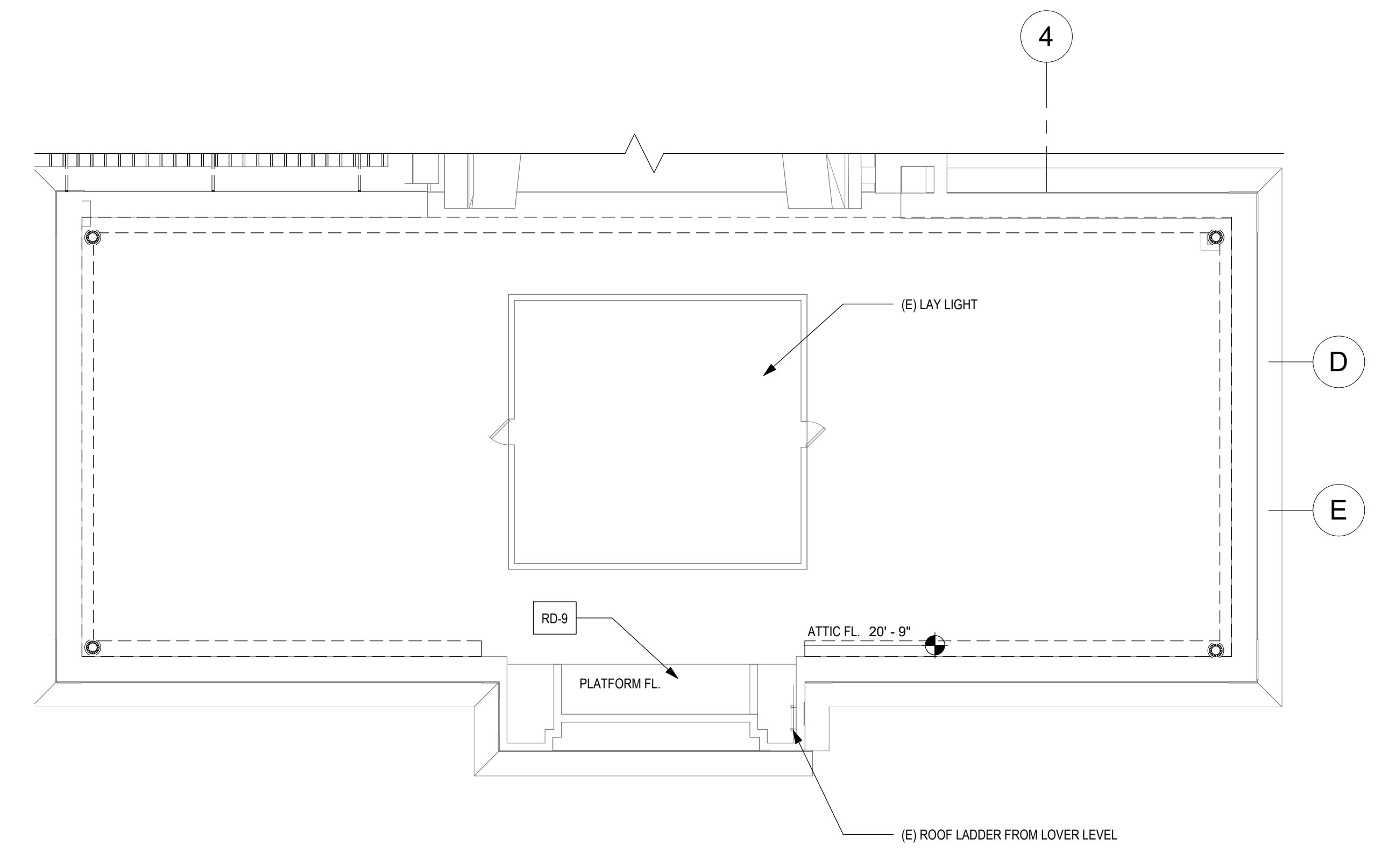
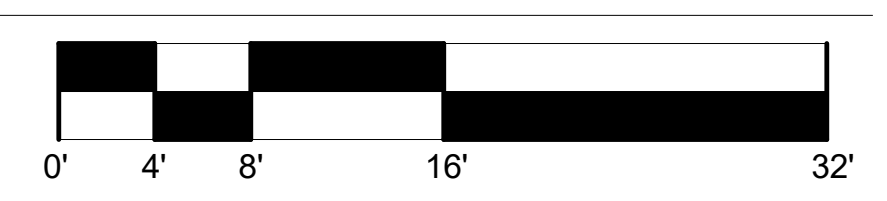
STAMP AREA



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



② ROOF DEMOLITION PLAN
1/8" = 1'-0"



③ ATTIC FLOOR DEMOLITION PLAN
1/8" = 1'-0"

SEE DWG A103-L NEW WORK PLAN ROOF FOR SCOPE OF ROOF WORK

- RD-1: PITCHED SHINGLE ROOF**
- DEMOLISH ALL EXISTING ASPHALT SHINGLES & UNDERLAYMENT DOWN TO EXISTING ROOF DECK.
 - INSPECT ROOF DECK AND MAKE NECESSARY REPAIRS.
 - REMOVE AND REPLACE LOWER PORTION OF DECKING AT FULL PERIMETER.
 - B.O.D. T&G BOARD.
- RD-2: BUILT-IN GUTTER**
- DEMOLISH EXISTING BUILT-IN GUTTER MEMBRANE DOWN TO EXISTING ROOF DECK. INSPECT ROOF DECK AND MAKE NECESSARY REPAIRS. SEE ABOVE FOR EXTENT.
- RD-3: FLAT ROOF**
- DEMOLISH ALL EXISTING MEMBRANE ROOFING & UNDERLAYMENT, INSULATION DOWN TO EXISTING ROOF DECK.
 - REPAIR ROOF DECK - ASSUME 5% REPLACEMENT.
 - B.O.D. 1" THICK T&G BOARD.
- RD-4: PARAPET**
- DEMOLISH ALL EXISTING METAL FLASHING INSTALLED AT PARAPET WALLS.
- RD-5**
- DEMOLISH VENT PIPES - SEE MEP DRAWINGS
- RD-6**
- DEMOLISH ROOF DRAINS - SEE MEP DRAWINGS
- RD-7**
- DEMOLISH (E) METAL GRILLE, REPAIR HOLES. SEE ELEVATIONS
- RD-8**
- DEMOLISH ROOF SCUPPER
- RD-9**
- DEMOLISH (E) WOOD LADDER
- RD-10**
- SEE MECH DRAWINGS FOR DEMOLITION OF MECHANICAL UNITS
- RD-11**
- REMOVE (E) ROOF HATCH
- RD-12**
- (E) LIMESTONE COPING - SEE ELEVATIONS AND PLAN A103-L FOR CLEANING. REPAIR AS NOTED AND REPOINTING.
- RD-13**
- (E) TERRACOTTA CORNICE - SEE ELEVATIONS AND PLAN A103-L FOR CLEANING. REPAIR AS NOTED AND REPOINTING.
- RD-14**
- REMOVE PORTION OF WALL TO INSTALL NEW SCUPPER. SEE ROOF PLAN AND DETAIL 9A8114.

STAMP AREA

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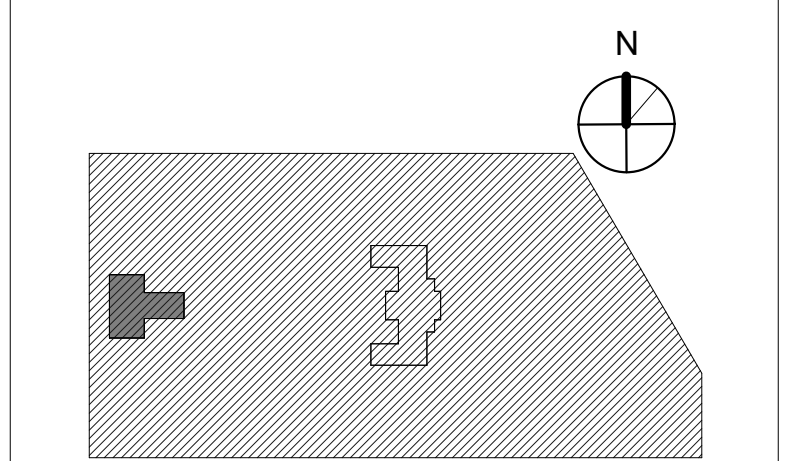


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KEY PLAN



DRAWING TITLE
DEMOLITION PLAN - ROOF

PROJECT NO. 21070	DRAWING NO. AD104-L
DATE 9/7/22	
SCALE 1/8" = 1'-0"	
DRAWN BY A.F.	
CHECKED BY D.B.	

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8 STAIR - LANDING



5 ELEVATOR - LOWER LEVEL



4 WINDOW SILL - MEETING ROOM - LOWER LEVEL



3 MEETING ROOM - LOWER LEVEL



2 CORRIDOR - LOWER LEVEL



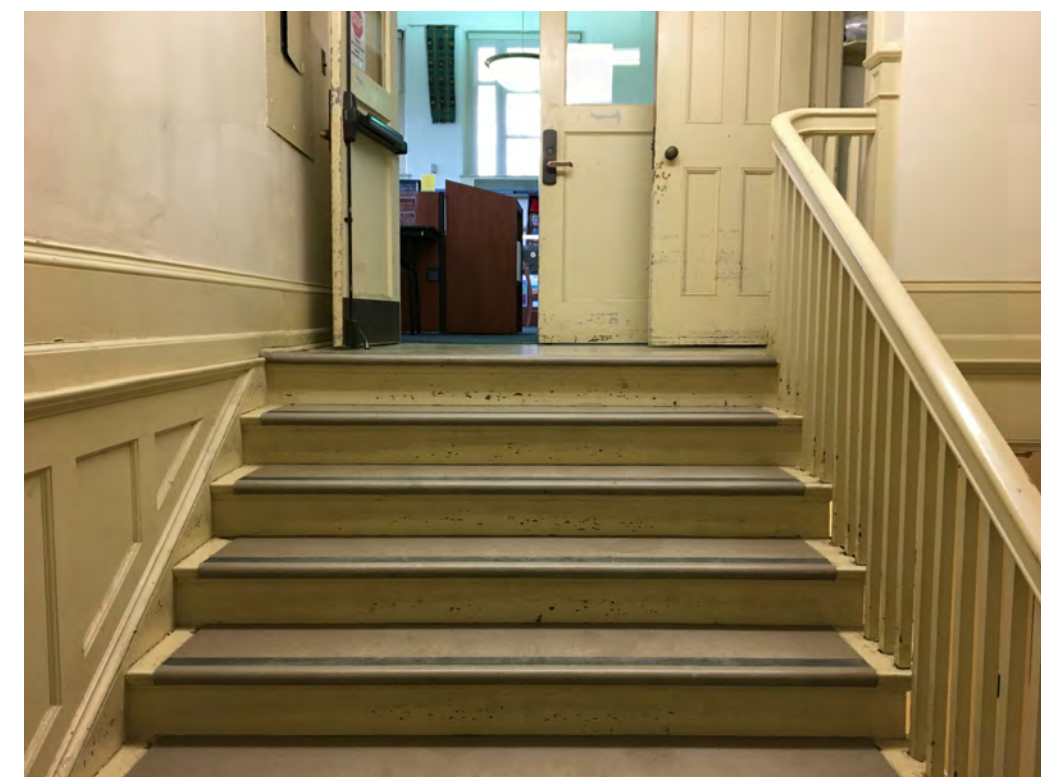
1 DOORS TO MEETING ROOM - LOWER LEVEL



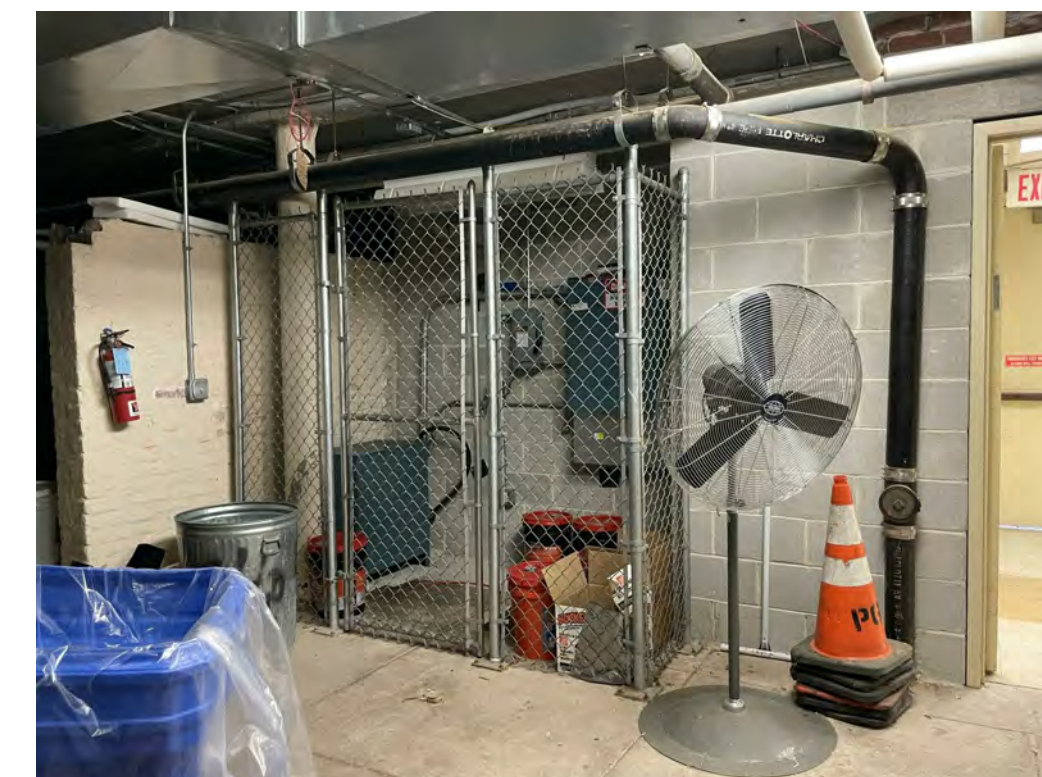
11 MAIN READING RM



10 ELEVATOR - FIRST FLOOR



9 STAIR - 1ST FLOOR



7 BOILER ROOM - LOWER LEVEL



6 BOILER ROOM - LOWER LEVEL



17 REAR READING RM



16 REAR READING RM



15 REAR READING RM



14 MAIN READING RM

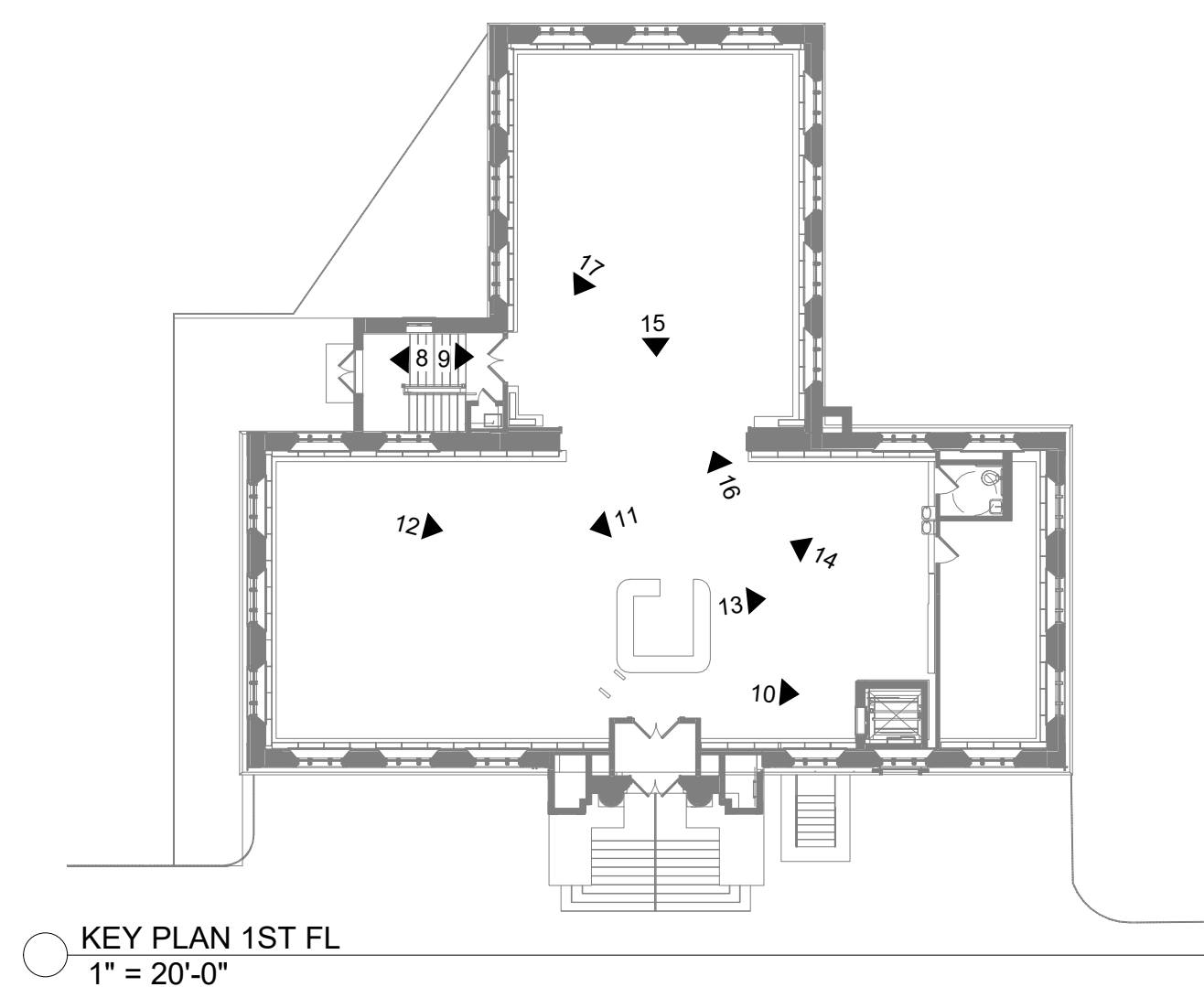


13 MAIN READING RM

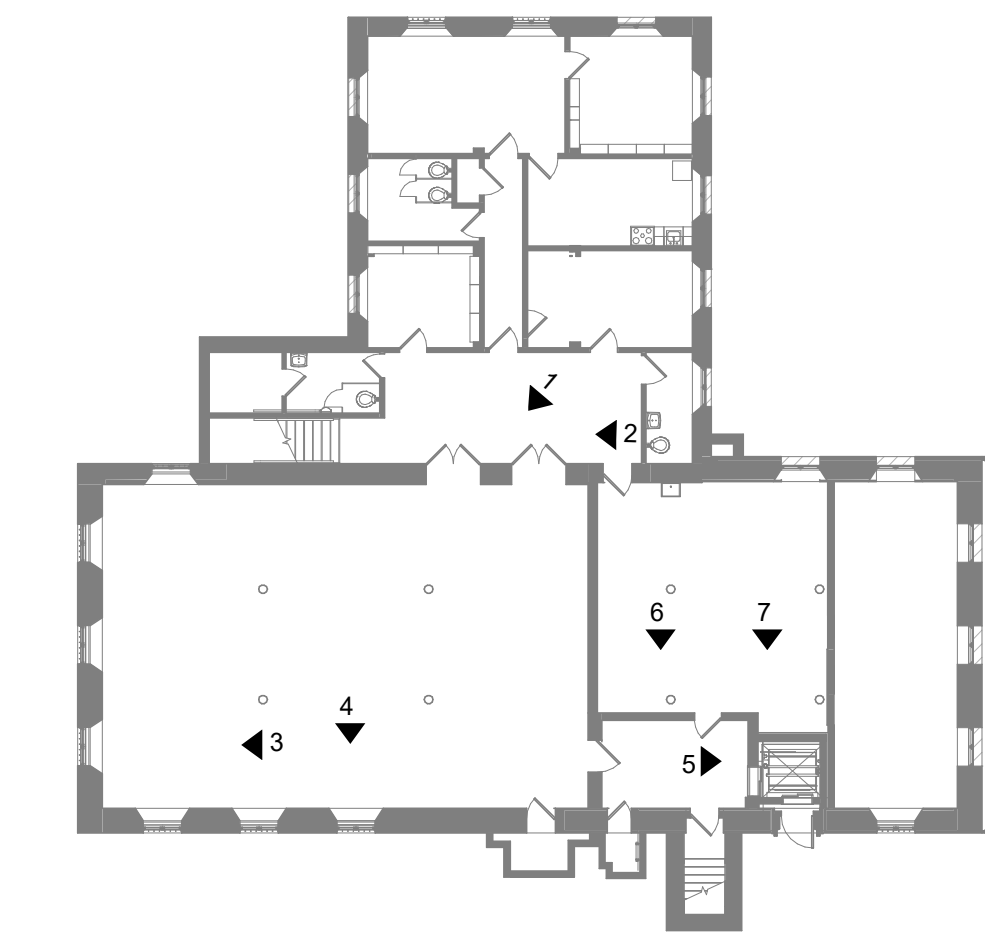


12 MAIN READING RM

STAMP AREA



KEY PLAN 1ST FL
1" = 20'-0"



KEY PLAN LOWER LEVEL
1" = 20'-0"

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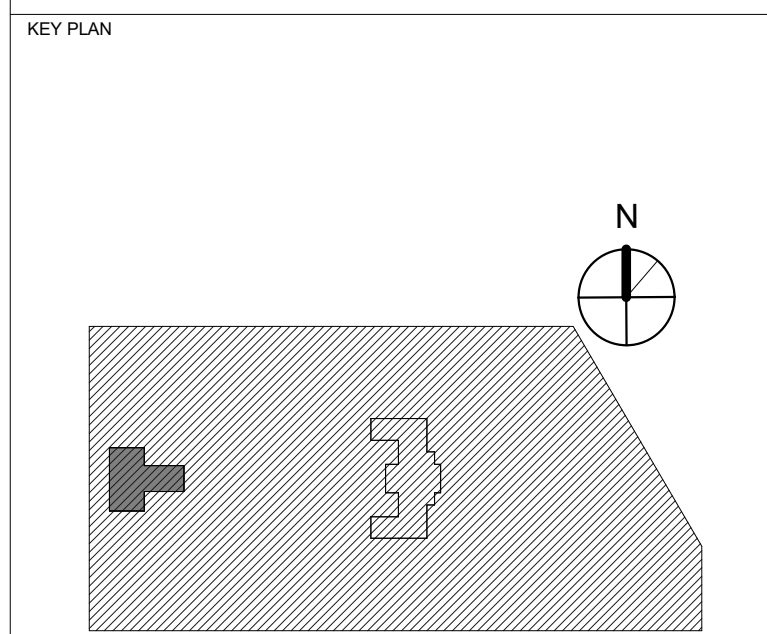
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IMPROVEMENTS



KEY PLAN
DRAWING TITLE
EXISTING INTERIOR
CONDITIONS PHOTOS

PROJECT NO. 21070	DRAWING NO.
DATE 9/7/22	AD105-L
SCALE As indicated	
DRAWN BY A.F.	
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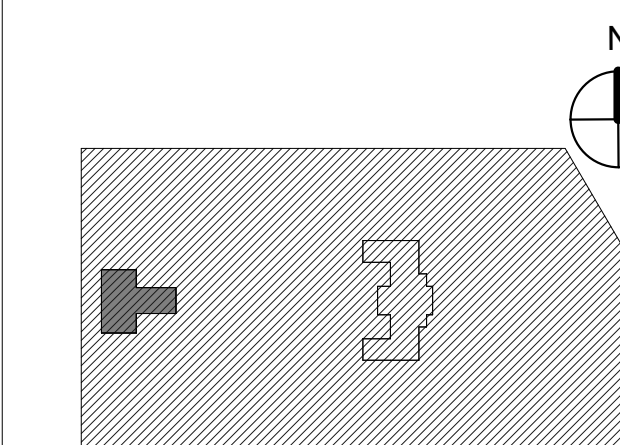


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PROJECT TITLE
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RENOVATIONS AND SITE
IMPROVEMENTS**

KEY PLAN



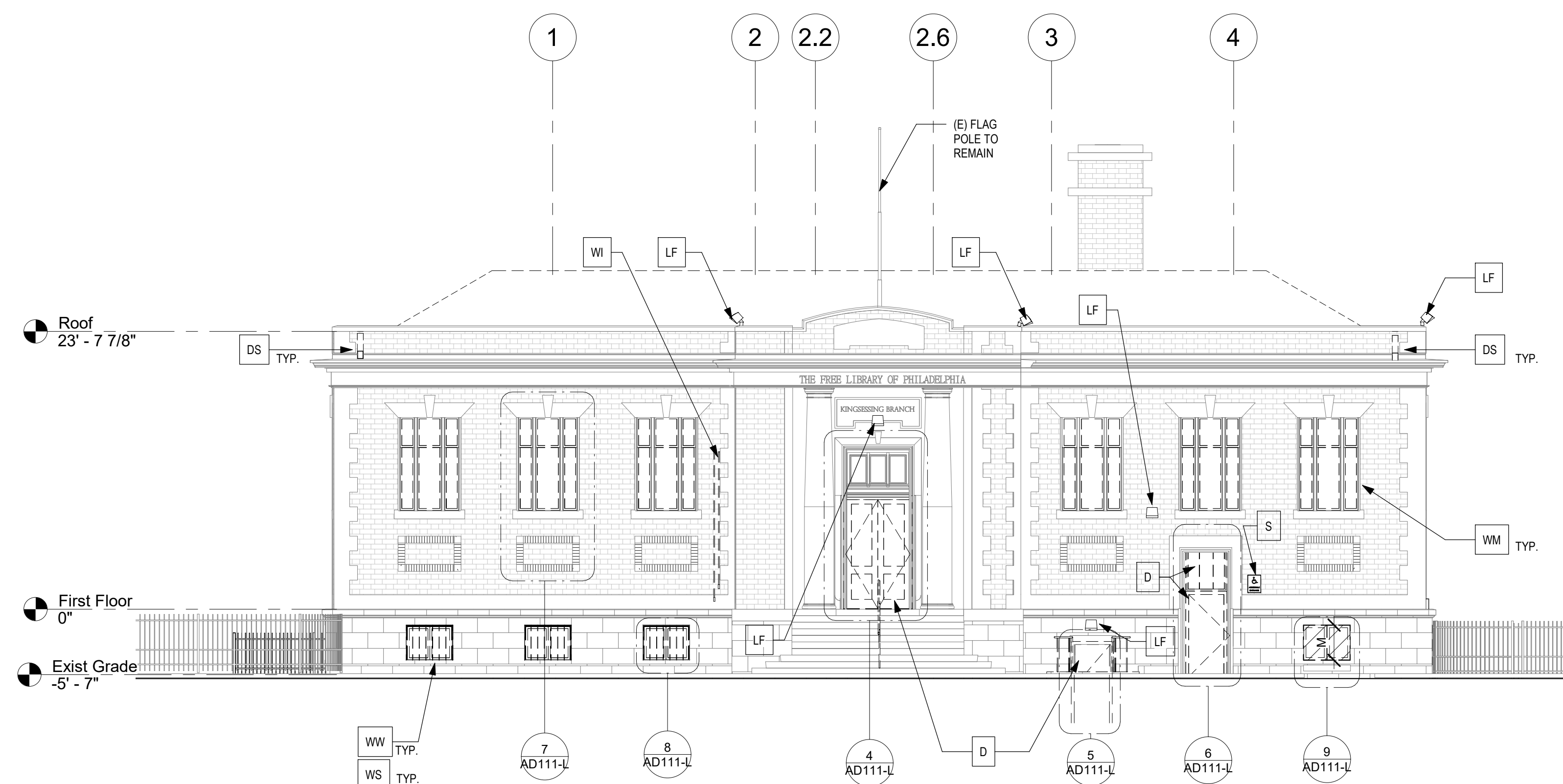
DRAWING TITLE
DEMOLITION ELEVATIONS

PROJECT NO. **21070** DRAWING NO.

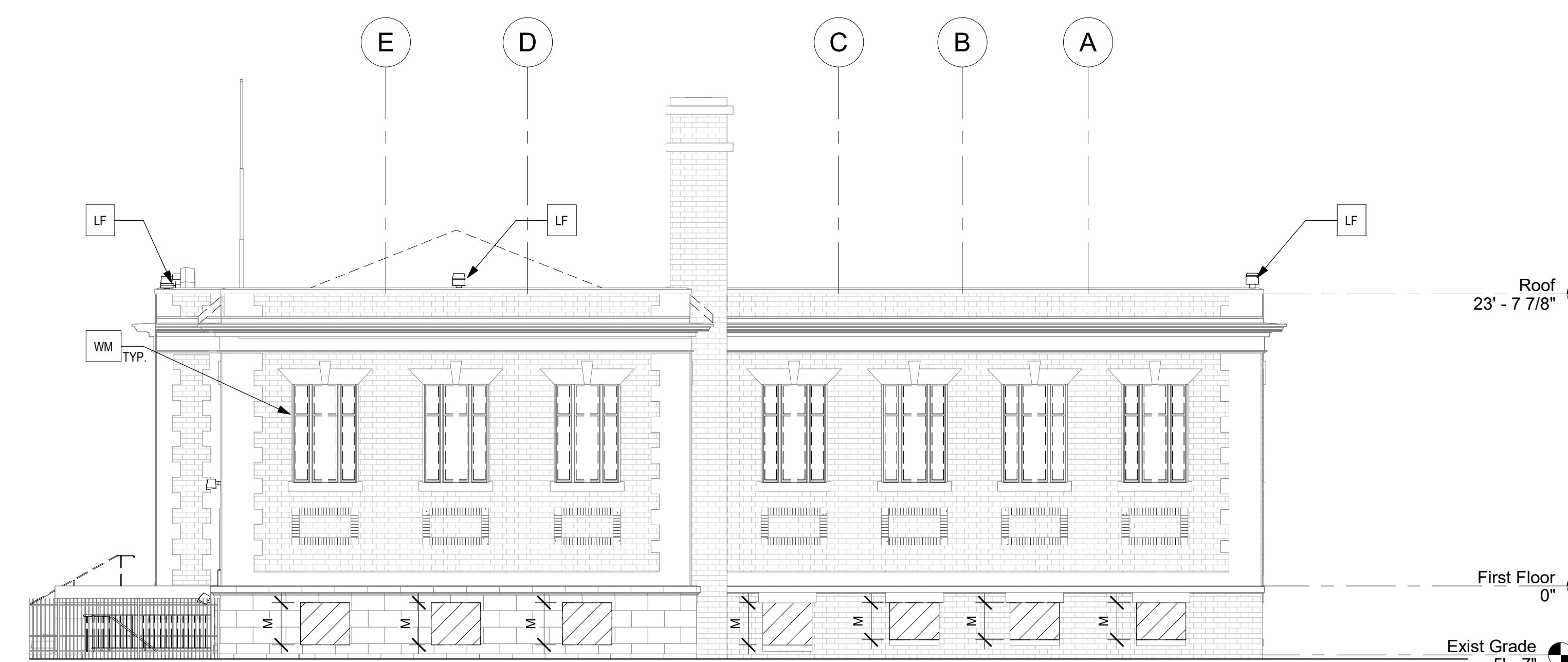
DATE 9/7/22
SCALE As indicated
DRAWN BY A.F.
CHECKED BY D.B.

AD111-L

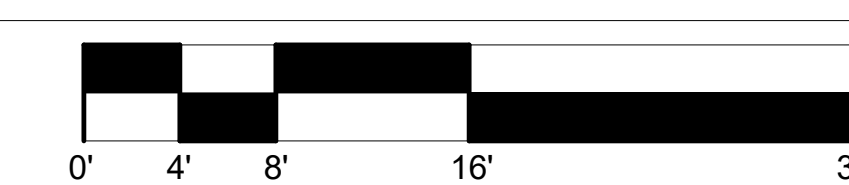
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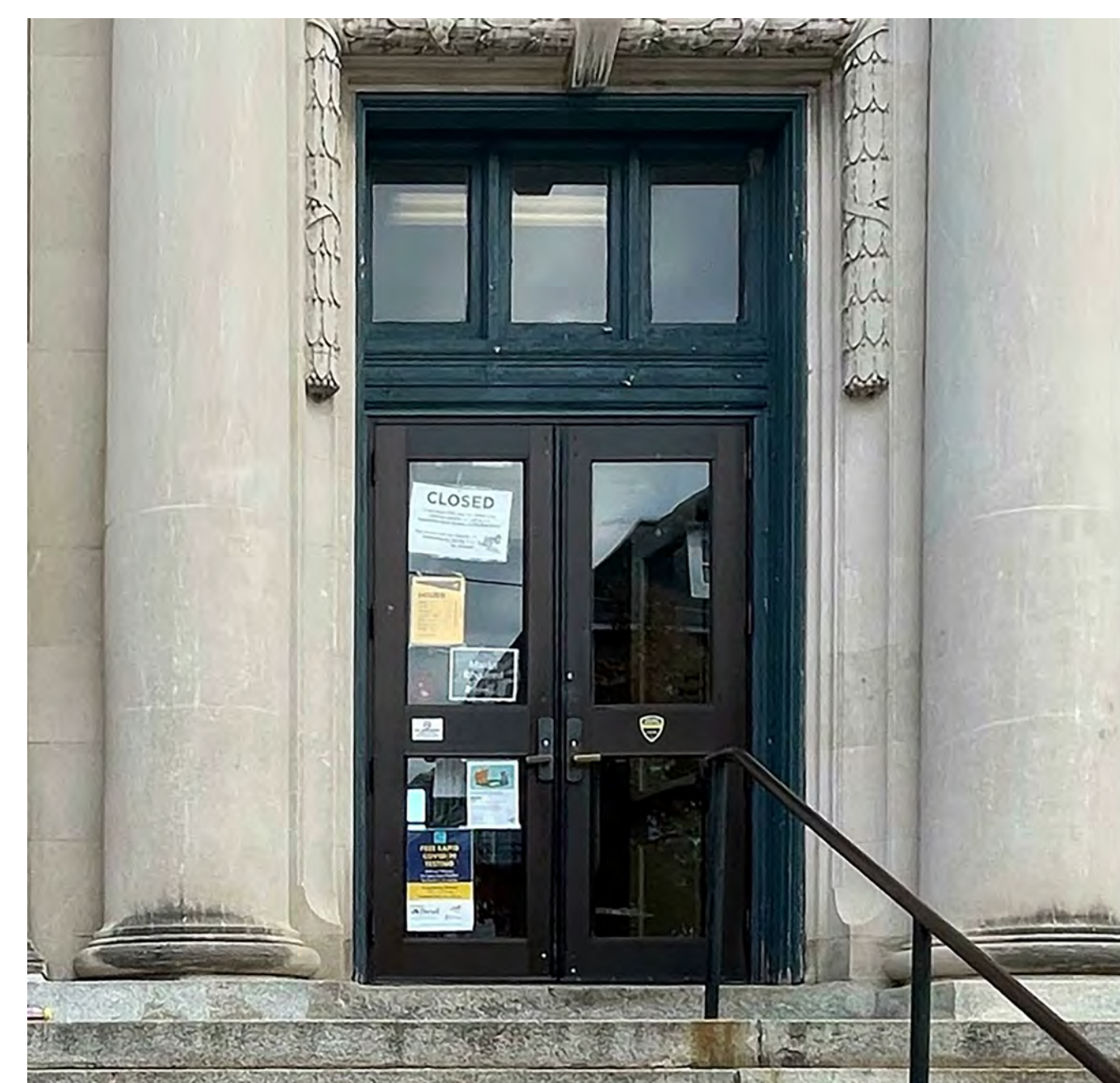
1 WEST ELEVATION DEMOLITION
1/8" = 1'-0"



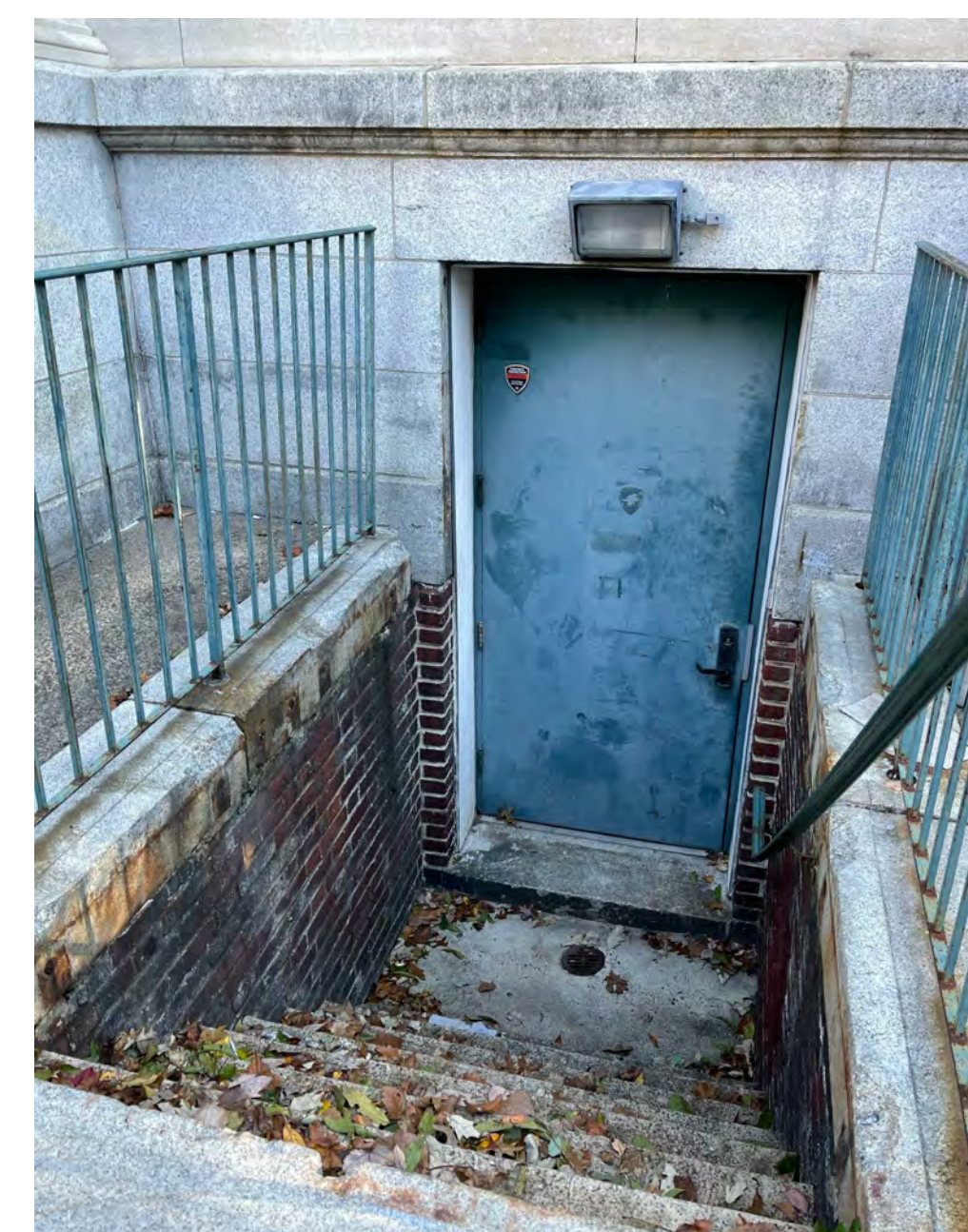
2 SOUTH ELEVATION DEMOLITION
1/8" = 1'-0"



3 WEST ELEV - CONDUIT TO BE REMOVED
12" = 1'-0"



4 MAIN ENTRANCE



5 LOWER LEVEL VESTIBULE DOOR



6 ELEVATOR DOOR



7 WINDOW CONDITIONS



8 L.L WINDOW CONDITION 2 TYP AT 3 (01_002_002)



9 L.L WINDOW CONDITION - WDW 004



10 L.L FACADE CONDITION - SOUTH - WDW 010

EXTERIOR DEMOLITION WORK GENERAL NOTES:

- SITE OBSERVATIONS WERE CONDUCTED IN A NON-INVASIVE MANNER. EXTERIOR WORK GENERAL NOTES AND DRAWINGS REPRESENT SCOPE AND QUANTITIES OF REPAIR WORK REQUIRED. THE CONTRACTOR SHALL NOTIFY THE PROFESSIONAL OF ANY DISCREPANCIES BETWEEN THE NOTES/DRAWINGS AND FIELD CONDITIONS PRIOR TO START OF WORK.
- SEE WINDOW SCHEDULE FOR WINDOW REPLACEMENT WORK SCOPE. WHEN REPLACING WINDOWS, SHORE ANY ARCHES SUSPECTED OF DROPPING PRIOR TO REMOVAL.

SCOPE OF WORK

SEE A201-L & A202-L ELEVATIONS FOR MASONRY REPAIR AND REPLACEMENT, CLEANING AND REPOINTING
SEE ROOF PLAN AD103-L FOR ROOF WORK, ADD'L PARAPET WORK, AND CHIMNEY WORK NOT SHOWN HERE

M. MASONRY

- REMOVE WINDOW MASONRY INFILL

DS. DOWNSPOUT AND SCUPPER

- REMOVE SCUPPERS AND DOWNSPOUTS - SEE DWG A103-L FOR SCOPE

WM. METAL WINDOW

- REMOVE EXISTING METAL WINDOW SASHES
- REMOVE EXISTING METAL PANNING
- ALL WINDOWS HAVE METAL PANNING AND METAL SASH INFILL U.N.O.

WW. WOOD WINDOW

- REMOVE EXISTING WOOD SASHES, FRAMES, AND/OR INFILL PANEL

WS. WINDOW SECURITY GRATES

- REMOVE ALL WINDOW SECURITY SCREENS. SEE PHOTO 7AD111-L FOR TYPICAL SCREENS AT UPPER WINDOWS. SEE PHOTOS 3 & 6AD112-L FOR TYPICAL SCREENS AT LOWER LEVEL.
- SEE PHOTO 8AD111-L FOR BARS AT FRONT ELEVATION. REMOVE, AND SALVAGE FOR REINSTALLATION. PATCH AND REPAIR HOLES

PT. PAINT

- REMOVE PAINT
- SEE ELEVATIONS A201-R - A203-R

S. SIGNAGE

- REMOVE SIGNAGE
- SALVAGE AND STORE FOR REINSTALLATION

D. DOORS

- REMOVE EXISTING DOORS AND TRANSOM, IF APPLICABLE
- REMOVE EXISTING FRAMES

LF. LIGHT FIXTURE

- REMOVE LIGHT FIXTURE
- SEE ELEC. DWGS

SC. SECURITY CAMERA

- REMOVE SECURITY CAMERA
- SEE ELEC. DWGS

LV. LOUVER

- REMOVE LOUVER
- SEE MECH DWGS

WI. WIRING

- REMOVE WIRING
- REMOVE CONDUIT
- RETAIN ALARM / SECURITY SYSTEM WIRING
- SEE ELEC. DWGS

MT. METAL GRILLE

- REMOVE METAL GRILLE AT CORNICE

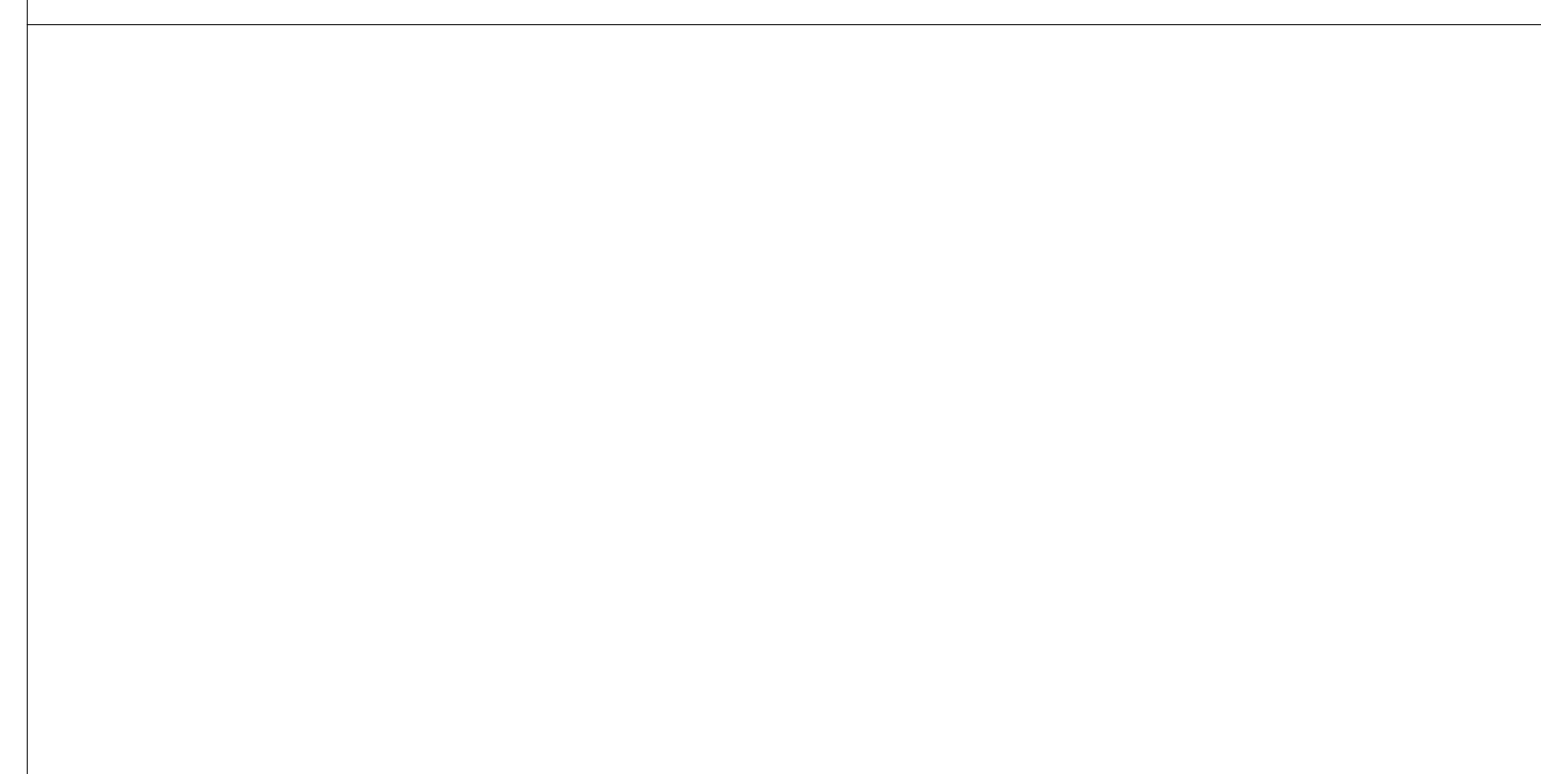
LEGEND

(E) WINDOW OR DOOR INFILL TO BE REMOVED - SEE DEMO PLANS

(E) WINDOW TO BE REMOVED - SEE WINDOW SCHEDULE

(E) WINDOW TO BE REMOVED - SEE WINDOW SCHEDULE

STAMP AREA



REVISIONS

ISSUE	DATE	DESCRIPTION
0	09/07/22	ISSUE FOR BID
1	09/26/22	ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR

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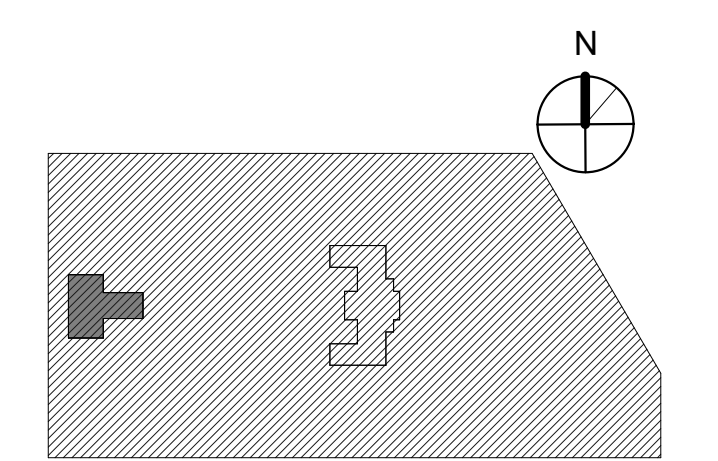


CITY OF PHILADELPHIA
FREE LIBRARY OF PHILADELPHIA
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PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
**KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS**

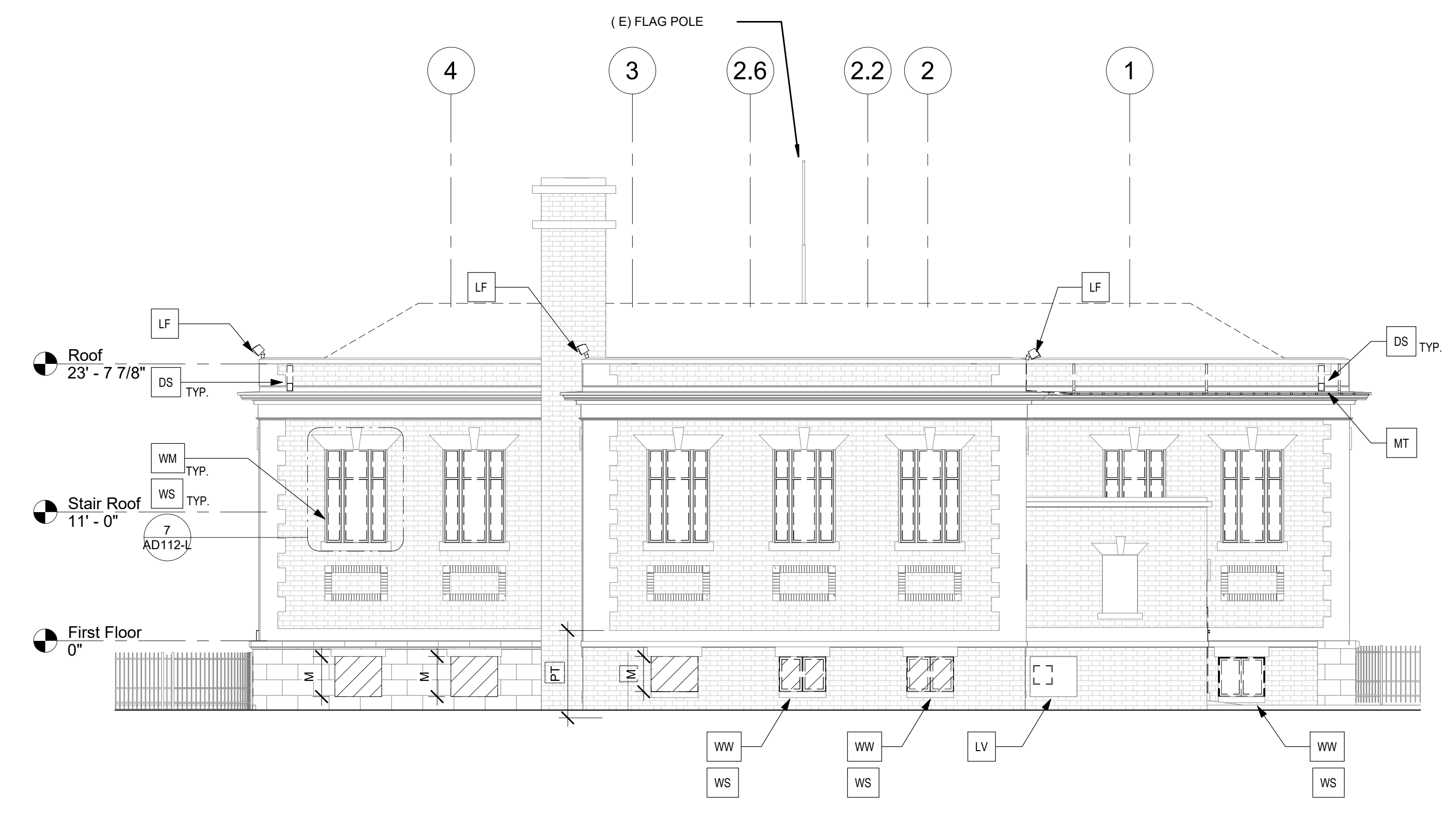
KEY PLAN



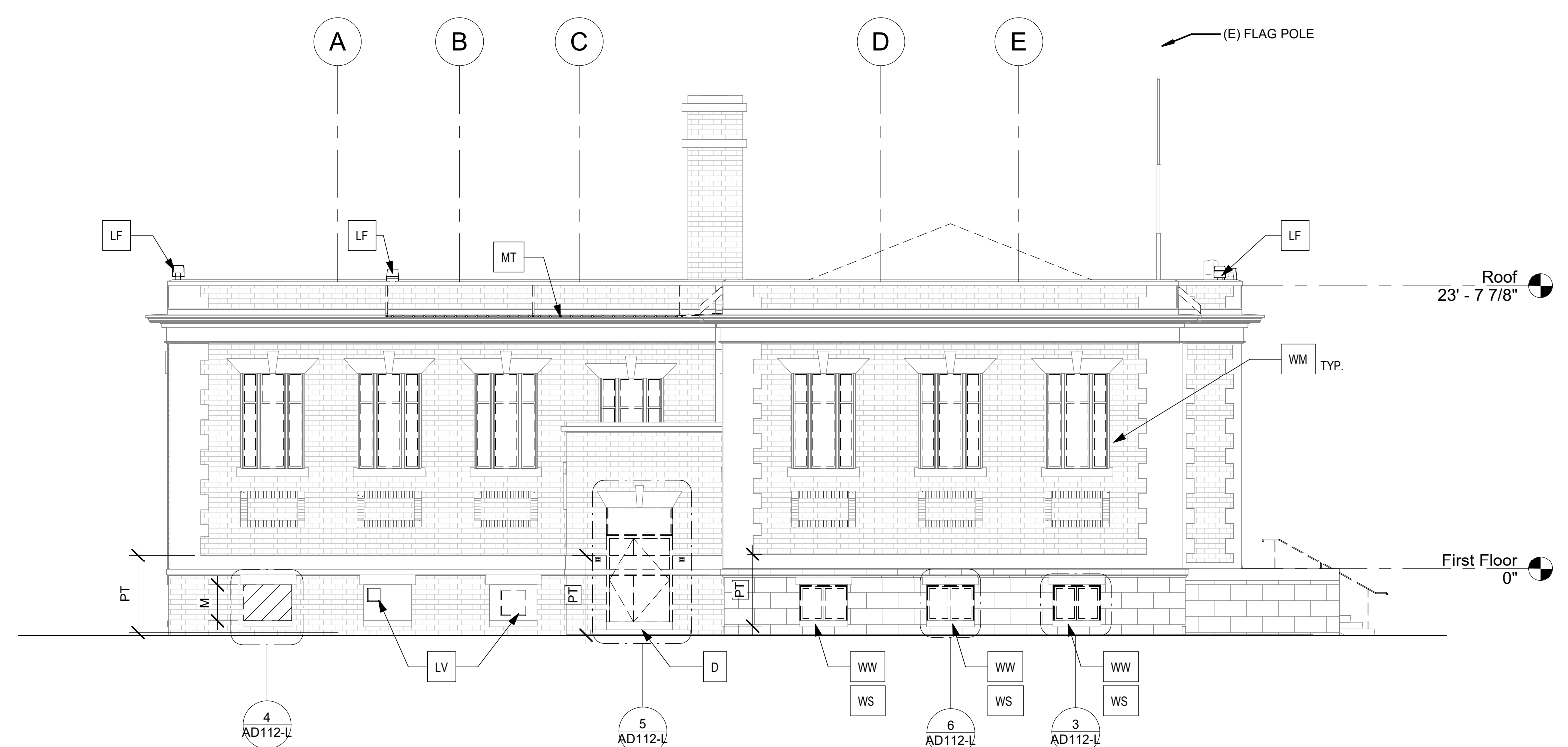
DRAWING TITLE
DEMOLITION ELEVATIONS

PROJECT NO. 21070	DRAWING NO.
DATE 9/7/22	AD112-L
SCALE As indicated	
DRAWN BY A.F.	
CHECKED BY D.B.	

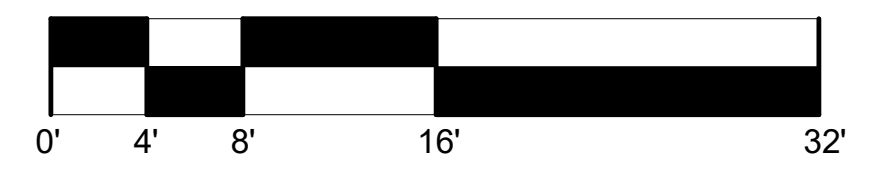
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



1 EAST ELEVATION DEMOLITION
1/8" = 1'-0"



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



7 EAST ELEV. WINDOW CONDITION
TYP ALL 1ST FLOOR WINDOWS
SEE SCOPE OF WORK WM AND WS



6 LOWER LEVEL WINDOW CONDITION
TYP 021,022
SEE SCOPE OF WORK WW AND WS



5 BACK DOOR



4 EAST L.L. WINDOW CONDITION 2 - MASONRY INFILL
TYP 017, 018, 019
SEE SCOPE OF WORK M-1



3 NORTH ELEVATION L.L. WINDOW CONDITION
TYP 023
SEE SCOPE OF WORK WW AND WS

- EXTERIOR DEMOLITION WORK GENERAL NOTES:**
- SITE OBSERVATIONS WERE CONDUCTED IN A NON-INVASIVE MANNER. EXTERIOR WORK GENERAL NOTES AND DRAWINGS REPRESENT SCOPE AND QUANTITIES OF REPAIR WORK REQUIRED. THE CONTRACTOR SHALL NOTIFY THE PROFESSIONAL OF ANY DISCREPANCIES BETWEEN THE NOTES/DRAWINGS AND FIELD CONDITIONS PRIOR TO START OF WORK.
 - SEE WINDOW SCHEDULE FOR WINDOW REPLACEMENT WORK SCOPE. WHEN REPLACING WINDOWS, SHORE ANY ARCHES SUSPECTED OF DROPPING PRIOR TO REMOVAL.

SCOPE OF WORK
SEE A201-L & A202-L ELEVATIONS FOR MASONRY REPAIR AND REPLACEMENT, CLEANING AND REPOINTING
SEE ROOF PLAN AD103-L FOR ROOF WORK, ADD'L PARAPET WORK, AND CHIMNEY WORK NOT SHOWN HERE

M. MASONRY
1. REMOVE WINDOW MASONRY INFILL

DS: DOWNSPOUT AND SCUPPER
1. REMOVE SCUPPERS AND DOWNSPOUTS - SEE DWG A103-L FOR SCOPE

WM: METAL WINDOW
1. REMOVE EXISTING METAL WINDOW SASHES
2. REMOVE EXISTING METAL PANNING
3. ALL WINDOWS HAVE METAL PANNING AND METAL SASH INFILL U.N.O.

WW: WOOD WINDOW
1. REMOVE EXISTING WOOD SASHES, FRAMES, AND/OR INFILL PANEL

WS: WINDOW SECURITY GRATES
1. REMOVE ALL WINDOW SECURITY SCREENS.
SEE PHOTO 7/AD111-J FOR TYPICAL SCREENS AT UPPER WINDOWS.
SEE PHOTOS 3 & 8/AD112-L FOR TYPICAL SCREENS AT LOWER LEVEL.
SEE PHOTO 8/AD111-L FOR BARS AT FRONT ELEVATION. REMOVE, AND SALVAGE FOR REINSTALLATION.
PATCH AND REPAIR HOLES

PT: PAINT
1. REMOVE PAINT
2. SEE ELEVATIONS A201-R - A203-R

S: SIGNAGE
1. REMOVE SIGNAGE
2. SALVAGE AND STORE FOR REINSTALLATION

D: DOORS
1. REMOVE EXISTING DOORS AND TRANSOM, IF APPLICABLE
2. REMOVE EXISTING FRAMES

LF: LIGHT FIXTURE
1. REMOVE LIGHT FIXTURE
2. SEE ELEC. DWGS

SC: SECURITY CAMERA
1. REMOVE SECURITY CAMERA
2. SEE ELEC. DWGS

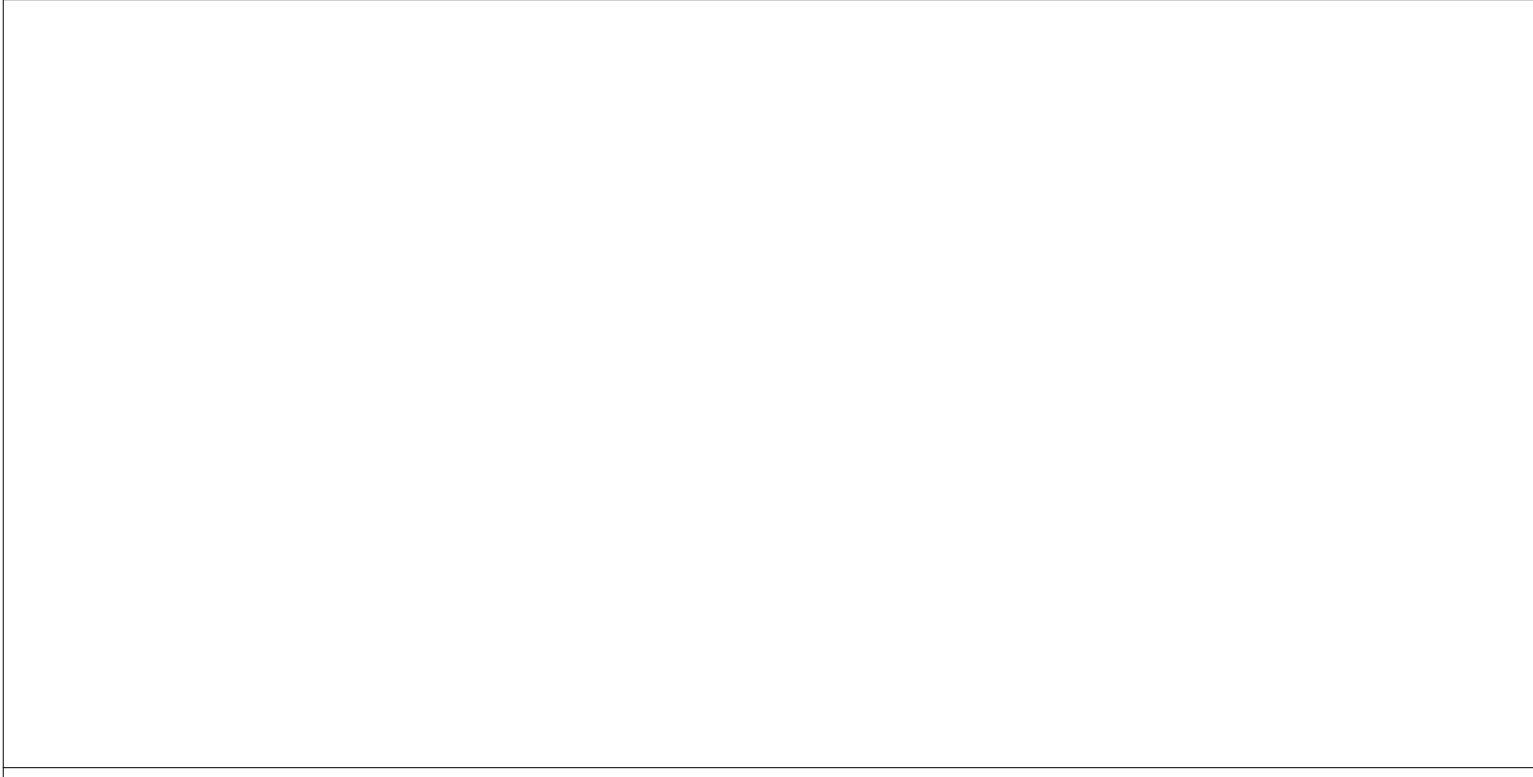
LV: LOUVER
1. REMOVE LOUVER
2. SEE MECH DWGS

WI: WIRING
1. REMOVE WIRING
2. REMOVE CONDUIT
3. RETAIN ALARM / SECURITY SYSTEM WIRING
4. SEE ELEC. DWGS

MT: METAL GRILLE
1. REMOVE METAL GRILLE AT CORNICE

- LEGEND**
- (E) WINDOW OR DOOR INFILL TO BE REMOVED - SEE DEMO PLANS
 - (E) WINDOW TO BE REMOVED - SEE WINDOW SCHEDULE
 - (E) WINDOW TO BE REMOVED - SEE WINDOW SCHEDULE

STAMP AREA





12 ROOF CONDITION 2



11 ROOF CONDITION 4



10 ROOF CONDITION



9 ROOF CONDITION 3



6 NORTH VIEW



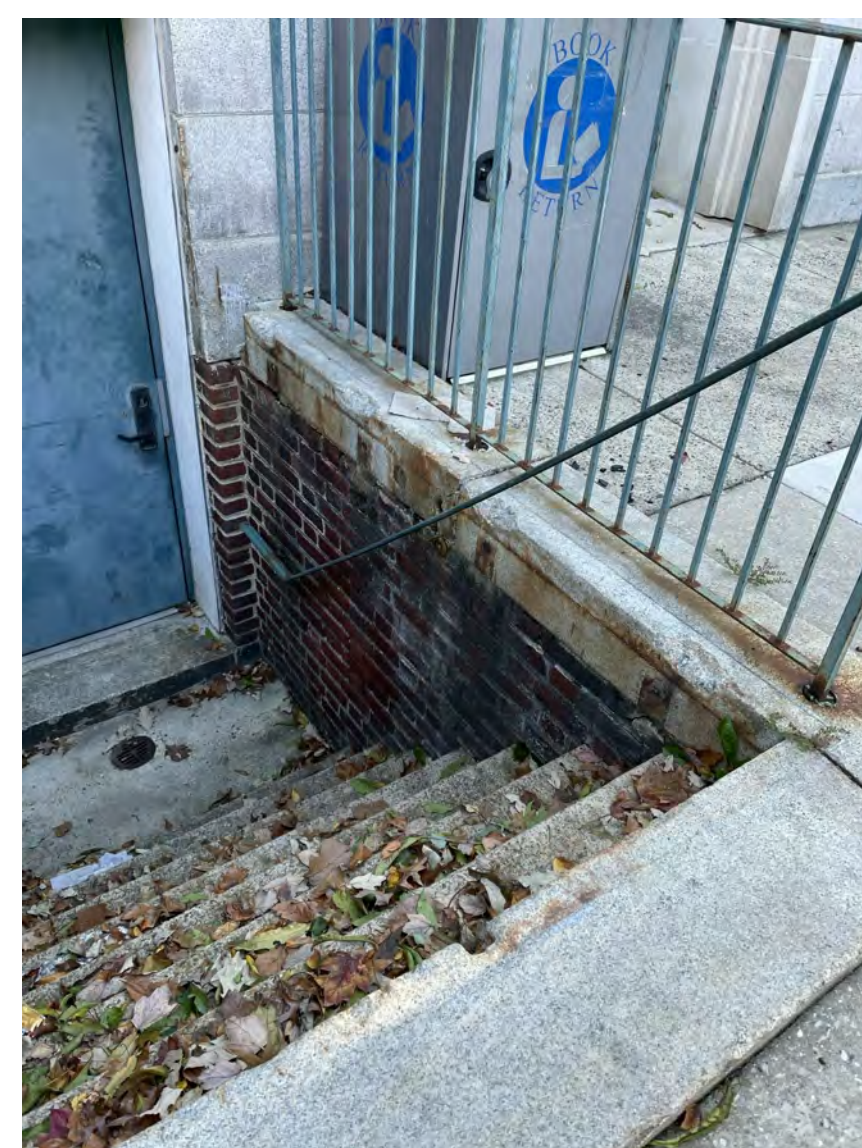
1 EAST VIEW 2



2 EAST VIEW



8 WEST VIEW



7 L.L. VEST. DOOR STAIRS



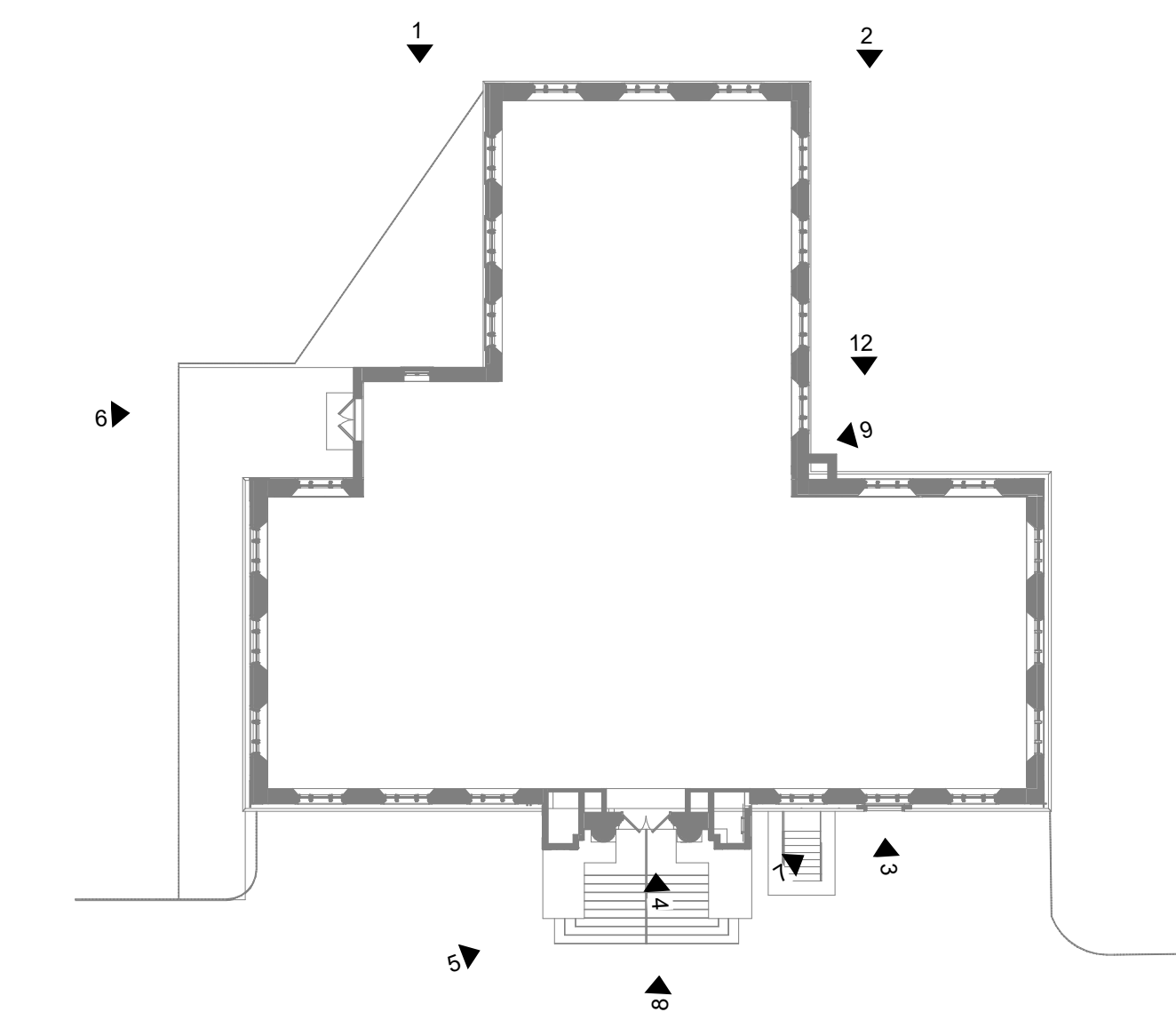
5 MAIN ENTRANCE STAIR CONDITION



4 MAIN ENTRANCE DOOR



3 ELEVATOR ENTRANCE DOOR



KEY PLAN EXTERIOR
1" = 20'-0"

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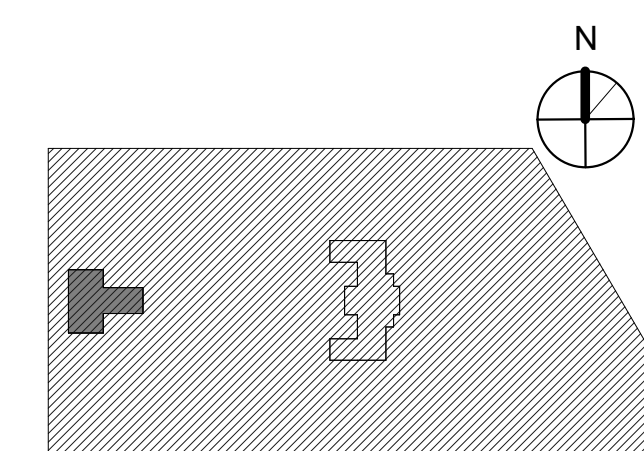


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**KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS**

KEY PLAN



**EXISTING CONDITIONS
PHOTOS**

PROJECT NO.
21070

DATE
9/7/22

SCALE
As indicated

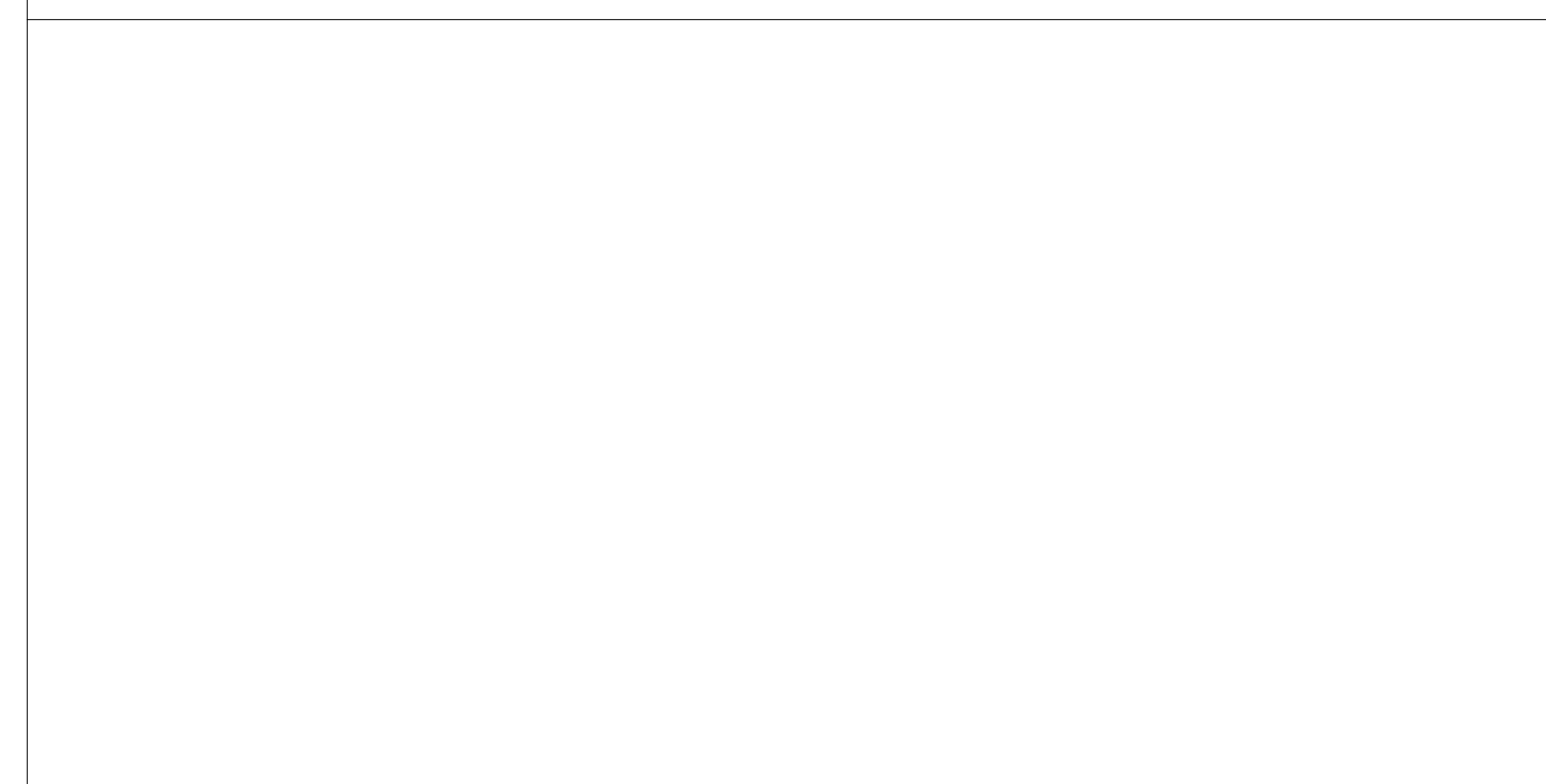
DRAWN BY
M.K.

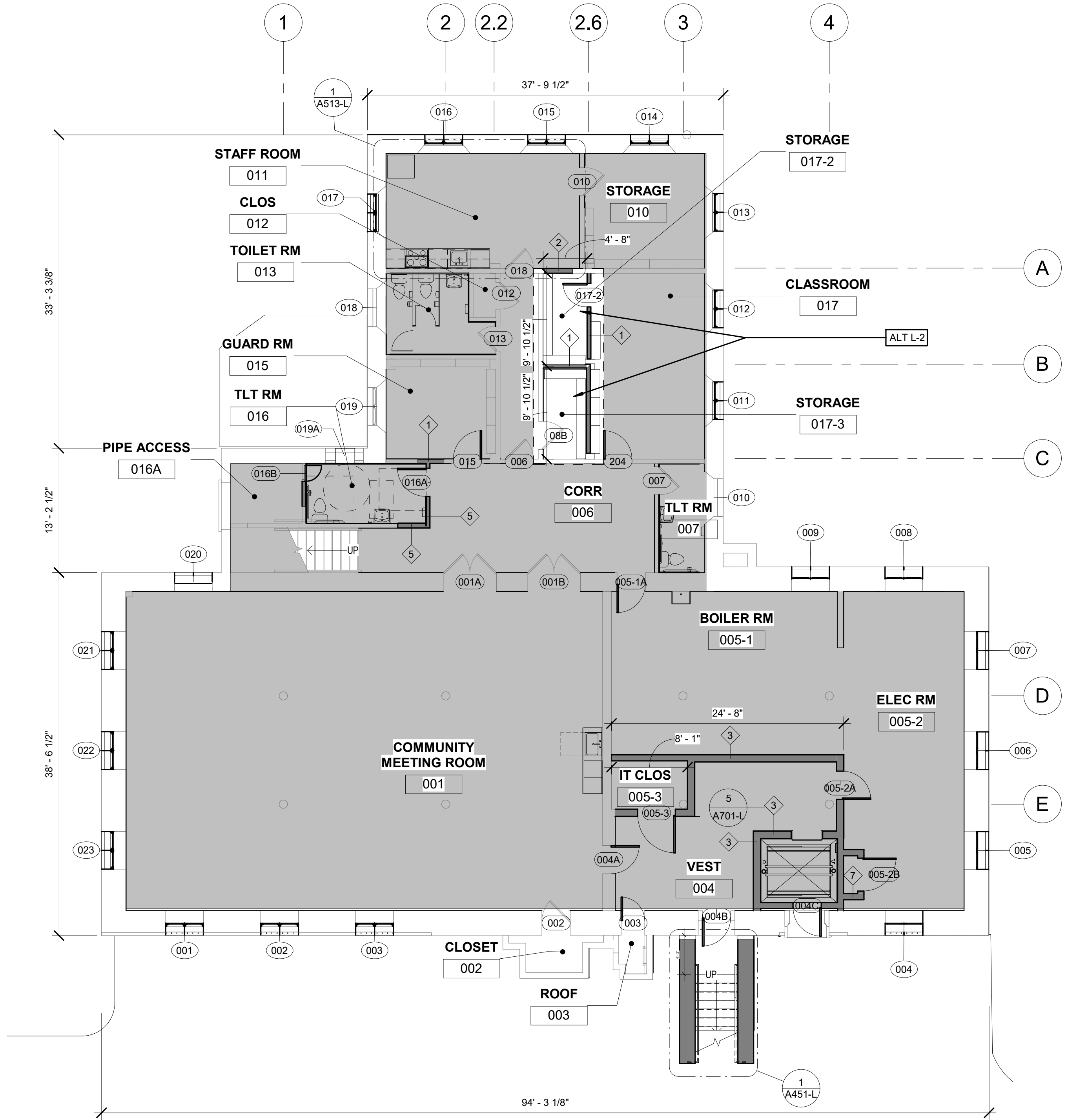
CHECKED BY
D.B.

DRAWING NO.
AD131-L

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

STAMP AREA

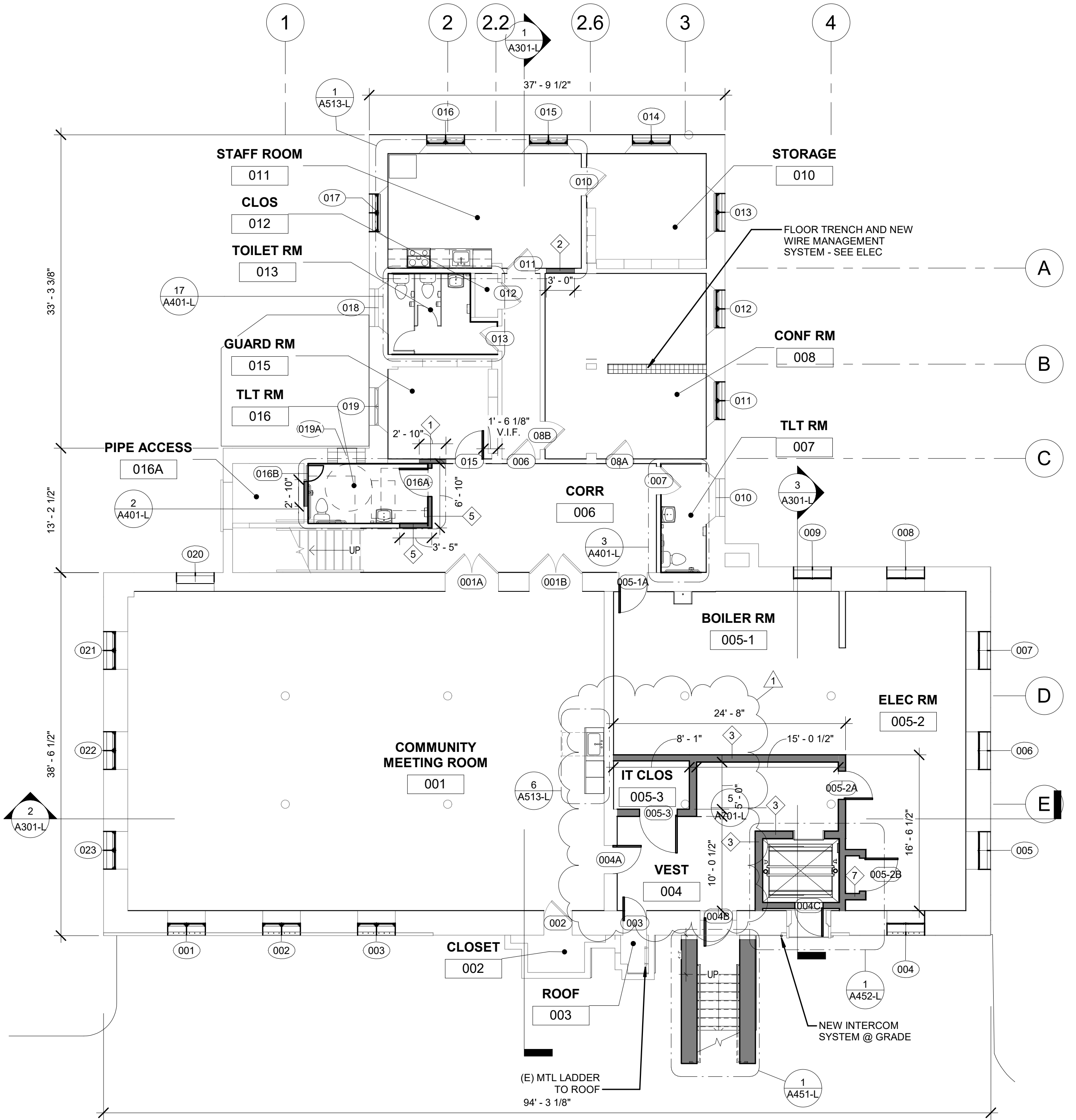




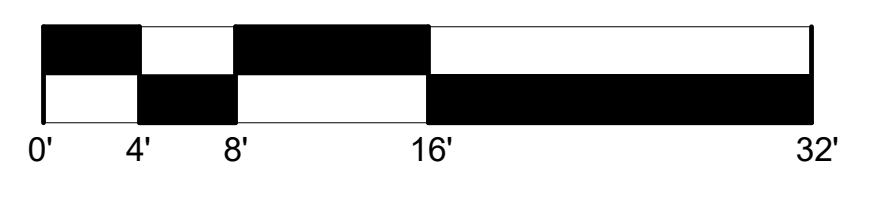
2 LOWER LEVEL - NEW WORK BASE SCOPE - alt
1/8" = 1'-0"

- ALTERNATE NO.1**
SEE LANDSCAPE DRAWINGS
- ALTERNATE NO.2**
ADD STORAGE CLOSETS (017-2, 017-3) ADJACENT TO ENLARGED CLASSROOM
- NEW PARTITIONS, WALL-MOUNTED SHELVING, DOORS, FINISHES AND ASSOCIATED MECHANICAL AND ELECTRICAL TO CREATE STORAGE CLOSETS
- ALTERNATE NO.3**
- ADD BI-FOLD DOORS (SEE A102-L)

STAMP AREA



1 LOWER LEVEL - NEW WORK BASE SCOPE
1/8" = 1'-0"



SCOPE OF WORK - LOWER LEVEL
SEE PHOTO PAGE FOR MORE INFORMATION
SEE ELEVATION SHEETS FOR EXTERIOR DOORS AND WINDOWS
NEW MEP SYSTEMS THROUGHOUT - SEE MEP DWGS.
SEE AD DWGS FOR EXISTING CONDITIONS

FLOORS
1. INSTALL NEW VCT OR LVT AND VINYL BASE.
2. LOWER LEVEL U.N.O. (SEE FINISH BASE)
3. PROVIDE CERAMIC TILE AND BASE AT ALL TOILET ROOMS
4. BOILER ROOM, ELEC. AND STORAGE ROOMS:
A. SEALED CONCRETE

WALLS
1. NEW MTL STUD AND GWB PARTITIONS AS SHOWN
2. PATCH AND REPAIR EXISTING WALLS (PLASTER AND GWB) - SEE GENERAL NOTES
3. PROVIDE CERAMIC TILE TO 6'-0" AT ALL TOILET ROOMS
4. PATCH MOISTURE DAMAGED PLASTER AT PERIMETER WALLS. SEE GENERAL NOTES FOR PLASTER REPAIR
5. NEW CMU PARTITIONS AT BOILER ROOM
6. NEW CMU AT ELEVATOR SHAFT WITH GWB AT FINISHED SPACES
7. ALL INTERIOR PARTITIONS WHICH RECEIVE CERAMIC TILE SHALL BE FRAMED WITH 20 GA. MIN. STUDS AT 12" O.C. W/ HORIZONTAL COLD ROLLED STIFFENER CHANNELS AT 4' O.C. (MAX.) AND EXTEND FROM FINISHED FLOOR TO STRUCTURE ABOVE. 20 GA. DIAGONAL STUD KICKERS MUST ALSO BE INSTALLED AT EVERY OTHER VERTICAL STUD ABOVE CEILING.

DOORS, FRAMES
1. NEW DOORS AND FRAMES AS SHOWN, PAINTED P-13. SEE FINISH SCHED
2. EXISTING DOORS AND FRAMES TO REMAIN:
A. PATCH AND REPAIR WOOD DOORS. PREP AND REPAIR P-13. SEE FINISH SCHED.
B. INSTALL NEW LEVER AND EGRESS HARDWARE
C. PATCH AND REPAIR WOOD FRAMES. ASSUME 10% REPLACEMENT OF CASING

WINDOWS
1. INSTALL ALL NEW METAL WINDOWS
2. CLEAN, SCRAPE, AND REPAIR SECURITY BARS AND REINSTALL
3. INSTALL NEW SECURITY BARS AT WINDOW 004

WOODWORK
1. EXISTING SHELVING TO REMAIN:
A. SAND, PATCH & REPAIR, REPAIR. SEE INTERIOR ELEVATIONS A502-L & 503-L FOR FINISHES

CEILING
1. PATCH AND REPAIR PLASTER AND GWB
2. CEILING, REPAIR P-11. SEE FINISH SCHED.
A. INSTALL NEW ACT

TOILET ROOMS
1. INSTALL NEW PLUMBING FIXTURES, ACCESSORIES, PARTITIONS AS SHOWN

KITCHEN
1. INSTALL NEW WOOD CASEWORK, UPPER AND LOWER CABINETS, SOLID SURFACE COUNTER, AND APPLIANCES

VERTICAL CIRCULATION
1. INSTALL NEW ELEVATOR
2. INSTALL NEW ROOF ACCESS LADDERS WITH SAFETY HARNESS (RM ROOF 003)

ALTERNATES
1. L-1: SITE
A. SEE LANDSCAPE DWGS
2. L-2: ADD ALTERNATE CONFERENCE ROOM
A. NEW STORAGE CLOSETS AT ENLARGED CONFERENCE ROOM

DRAWING LEGEND

- EXISTING WALL / PARTITION
- NEW WALL / PARTITION
- FLOOR TRENCH AND NEW WIRE MANAGEMENT - SEE ELEC
- AREA NOT IN ALTERNATE SCOPE
- NEW DOOR
- EXISTING DOOR & FRAME TO REMAIN
- WINDOW NUMBER
- DOOR NUMBER
- PARTITION TYPE

REVISIONS		
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PROJECT COORDINATOR:
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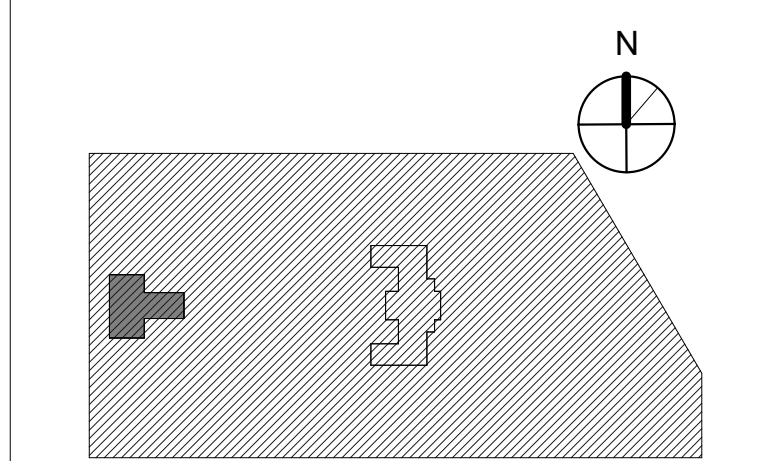


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PROJECT TITLE
KINGSESSING LIBRARY BUILDING RENOVATIONS AND SITE IMPROVEMENTS

KEY PLAN



DRAWING TITLE
NEW WORK PLAN - LOWER LEVEL

PROJECT NO. 21070	DRAWING NO. A101-L
DATE 9/7/22	
SCALE As Indicated	
DRAWN BY A.F.	
CHECKED BY D.B.	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

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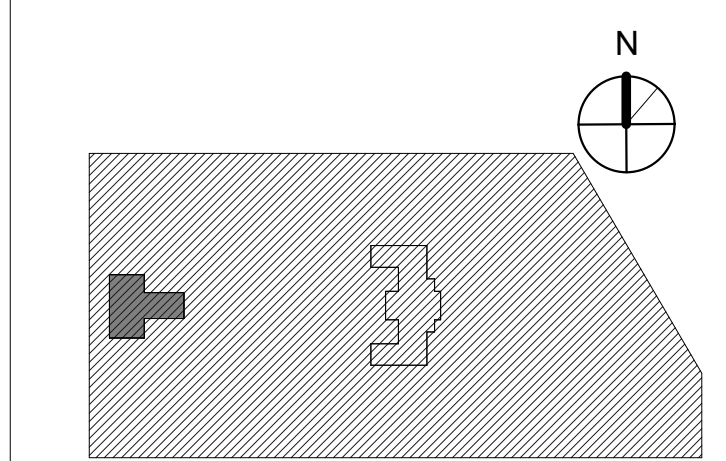


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PROJECT TITLE
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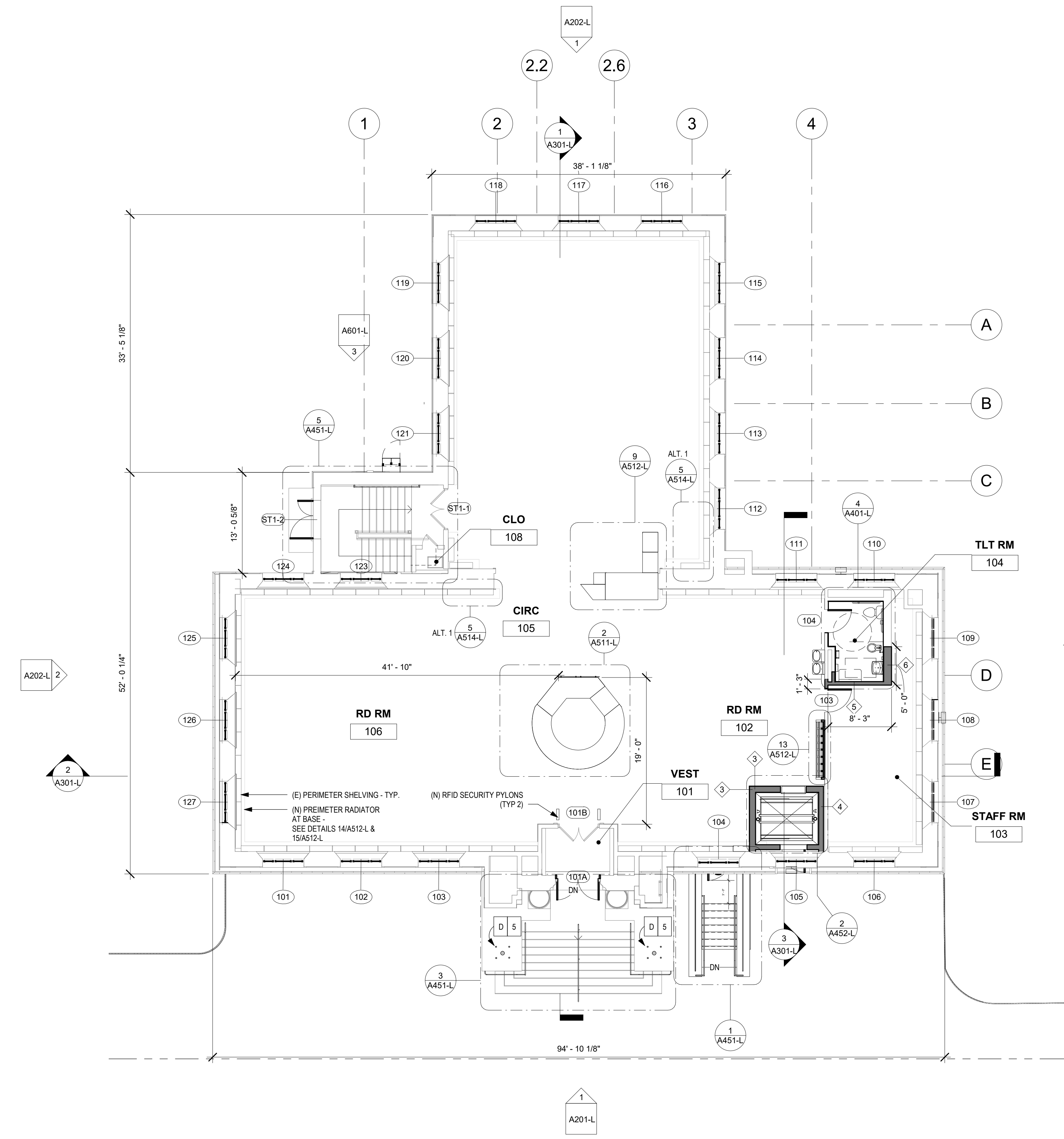
KEY PLAN



DRAWING TITLE
NEW WORK PLAN - FIRST FLOOR

PROJECT NO.	21070	DRAWING NO.	A102-L
DATE	9/7/22		
SCALE	As indicated		
DRAWN BY	A.F.		
CHECKED BY	D.B.		

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



SCOPE OF WORK - FIRST FLOOR
SEE PHOTO PAGE FOR MORE INFORMATION
SEE ELEVATION SHEETS FOR EXTERIOR DOORS AND WINDOWS
NEW MEP SYSTEMS THROUGHOUT - SEE MEP DWGS.
SEE AD DWGS FOR EXISTING CONDITIONS
D 5 SEE EXTERIOR ELEVATIONS & MASONRY SCHEDULE

FLOORS
1. INSTALL NEW FLOOR FINISHES AS SHOWN - SEE FINISH PLANS.
2. PROVIDE NEW WOOD BASE AT NEW WALLS. SEE INTERIOR ELEVATIONS FOR PERIMETER WALLS.
3. PROVIDE CERAMIC TILE AND BASE AT ALL TOILET ROOMS.
4. VEST 101 - (E) QUARRY TILE FLOOR: CLEAN AND GROUT
5. STAIR 1: REMOVE VINYL TREADS, REFINISH WOOD STAIR. INSTALL NEW VINYL TREADS.

WALLS
1. NEW MTL STUD AND GWB PARTITIONS AS SHOWN
2. PATCH AND REPAIR EXISTING WALLS (PLASTER AND GWB). SEE GENERAL NOTES.
3. PROVIDE CERAMIC TILE TO 6'-0" AT ALL TOILET ROOMS
4. PATCH MOISTURE DAMAGED PLASTER AT PERIMETER WALLS. SEE GENERAL NOTES AND INTERIOR ELEVATIONS.
5. VEST 101: CLEAN MARBLE WAINSCOT WITH RESTORATION CLEANER. CLEAN AND REPAIR GRILLE.
6. ALL INTERIOR PARTITIONS WHICH RECEIVE CERAMIC TILE SHALL BE FRAMED WITH 20 GA. MIN. STUDS AT 12" O.C. W/ HORIZONTAL COLD ROLLED STIFFENER CHANNELS AT 4'-0" O.C. (MAX.) AND EXTEND FROM FINISHED FLOOR TO STRUCTURE ABOVE. 20 GA. DIAGONAL STUD KICKERS MUST ALSO BE INSTALLED AT EVERY OTHER VERTICAL STUD ABOVE CEILING.

DOORS, FRAMES
1. NEW DOORS AND FRAMES AS SHOWN, PAINTED P-13. SEE FINISH SCHEDULE
2. EXISTING DOORS AND FRAMES TO REMAIN:
A. PATCH AND REPAIR WOOD DOORS: PREP AND REPAIR P-13. SEE FINISH SCHEDULE
B. INSTALL NEW LEVER AND EGRESS HARDWARE.
C. PATCH AND REPAIR WOOD FRAMES: ASSUME 10% REPLACEMENT OF CASING.

WINDOWS
1. INSTALL ALL NEW METAL WINDOWS.

WOODWORK
1. EXISTING SHELVING TO REMAIN:
A. SAND, PATCH & REPAIR, REPAIR. SEE INTERIOR ELEVATIONS A501-L FOR FINISHES.
2. STAIR 1: REPAIR WOOD WAINSCOT, REPLACE 2 PANELS. SAND AND REPAIR THROUGHOUT. SAND AND REPAIR EXISTING WOOD HANDRAILS. INSTALL NEW HANDRAILS. SEE INTERIOR ELEVATIONS A502-L FOR FINISHES.

CEILING
1. PATCH AND REPAIR PLASTER CEILING, REPAIR P-11. SEE FINISH SCHEDULE.

TOILET ROOMS
1. INSTALL NEW PLUMBING FIXTURES, ACCESSORIES, PARTITIONS AS SHOWN

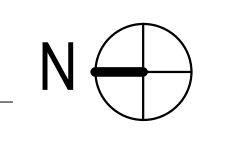
ELEVATOR
1. INSTALL NEW ELEVATOR AND ENCLOSURE: MATCH EXISTING TRIM.

DRAWING LEGEND
EXISTING WALL / PARTITION
NEW WALL / PARTITION

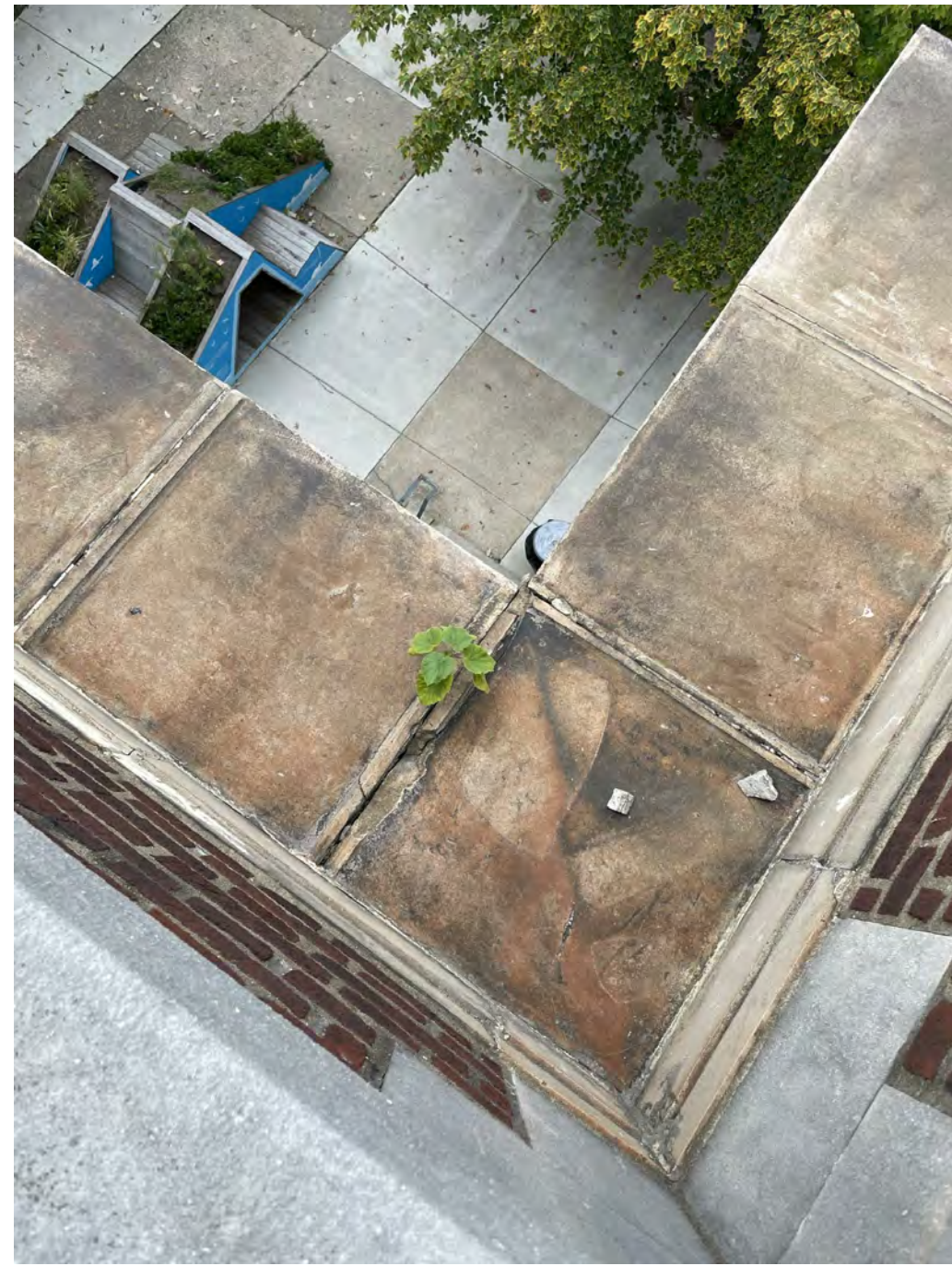
NEW DOOR
EXISTING DOOR & FRAME TO REMAIN
WINDOW NUMBER
DOOR NUMBER
PARTITION TYPE

1 FIRST FLOOR - NEW WORK
1/8" = 1'-0"

ALTERNATE NO. 1	- SEE LANDSCAPE DRAWINGS
ALTERNATE NO. 2	- SEE LOWER LEVEL PLANS
ALTERNATE NO. 3	- ADD BI-FOLD DOORS AT SHELVING - (SEE DWG A514-L)



STAMP AREA



4 ROOF CONDITION - TERRACOTTA CORNICE



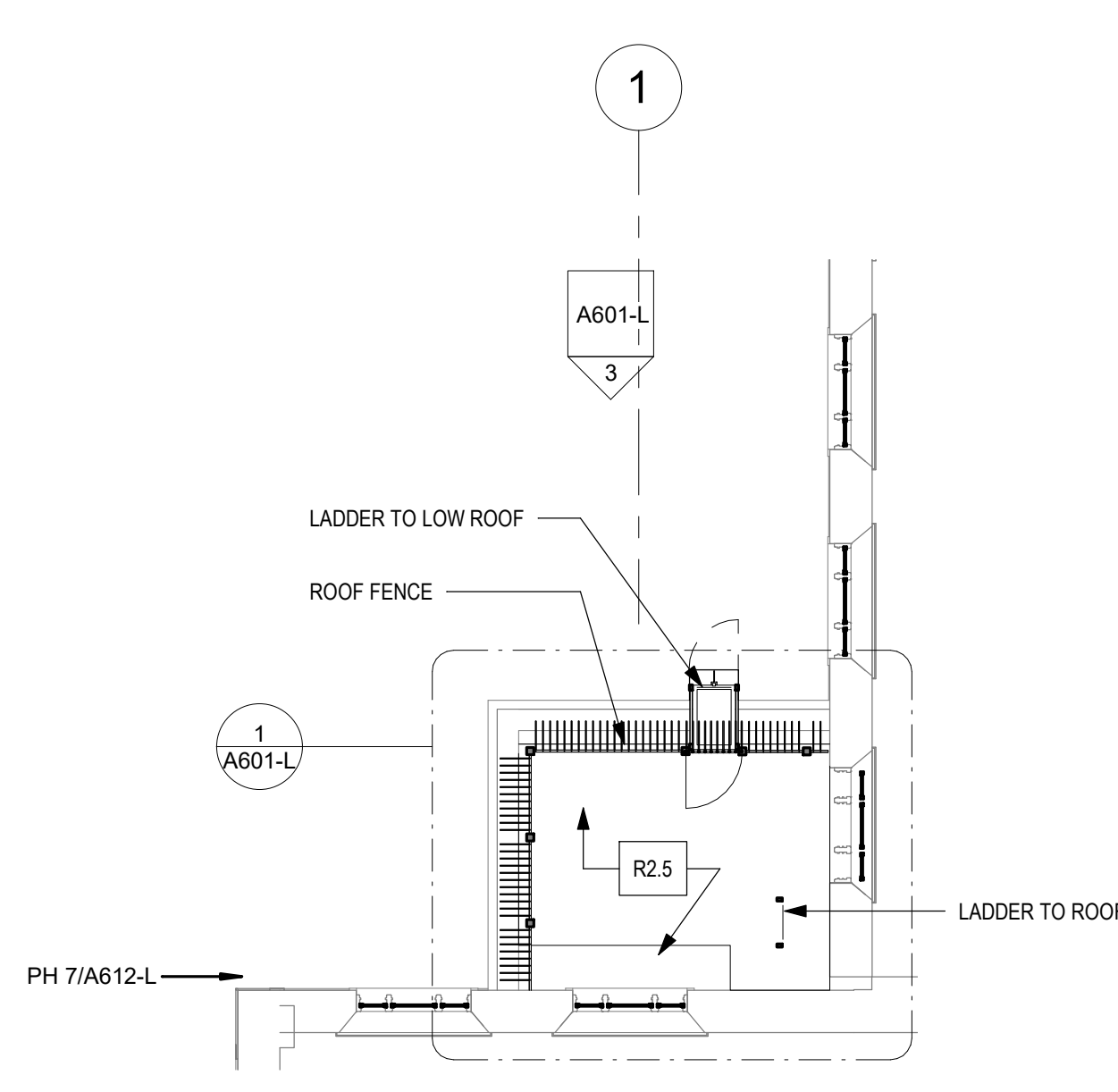
7 ROOF CONDITION - GRILLE



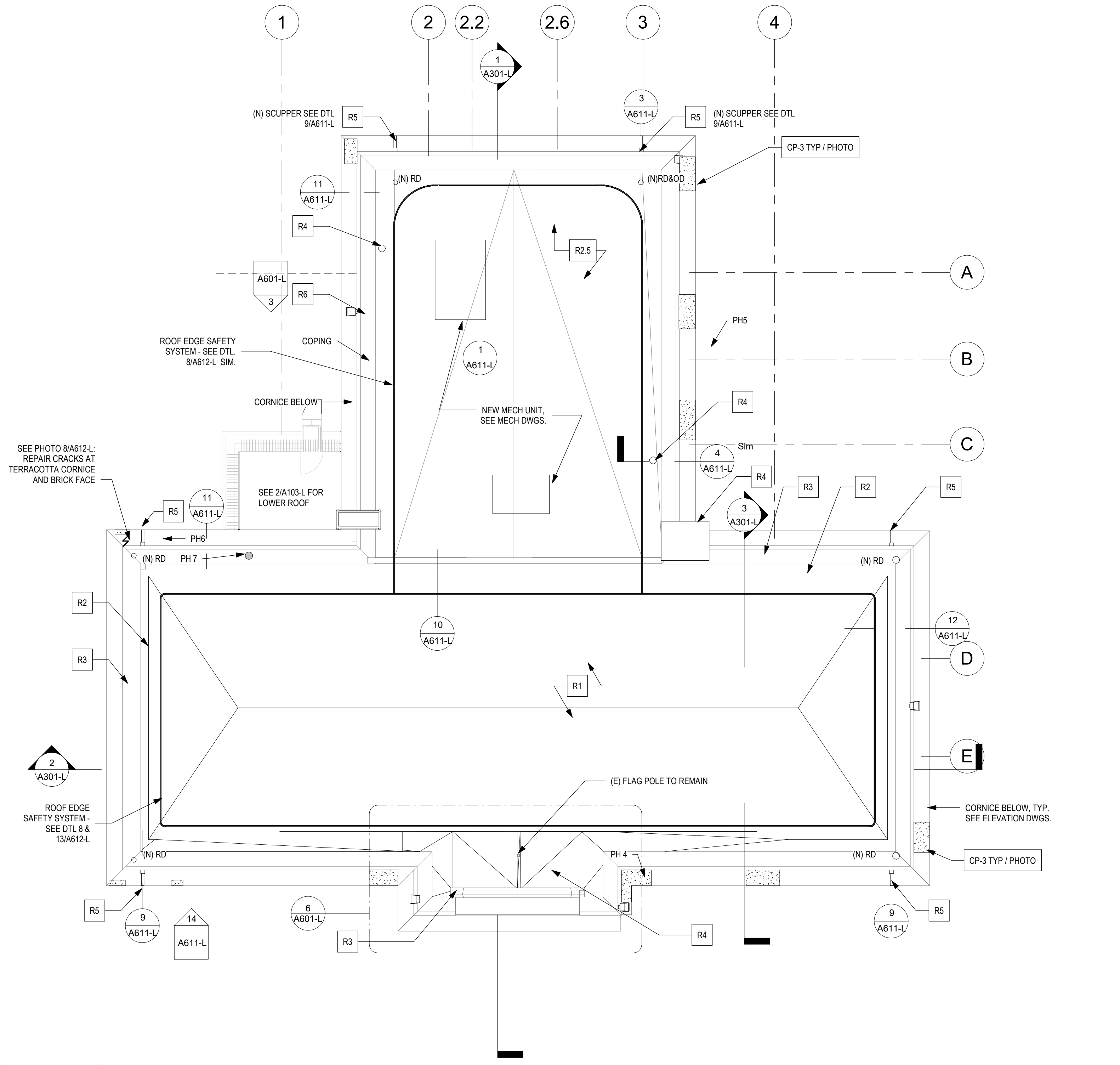
6 ROOF CONDITION - SCUPPER



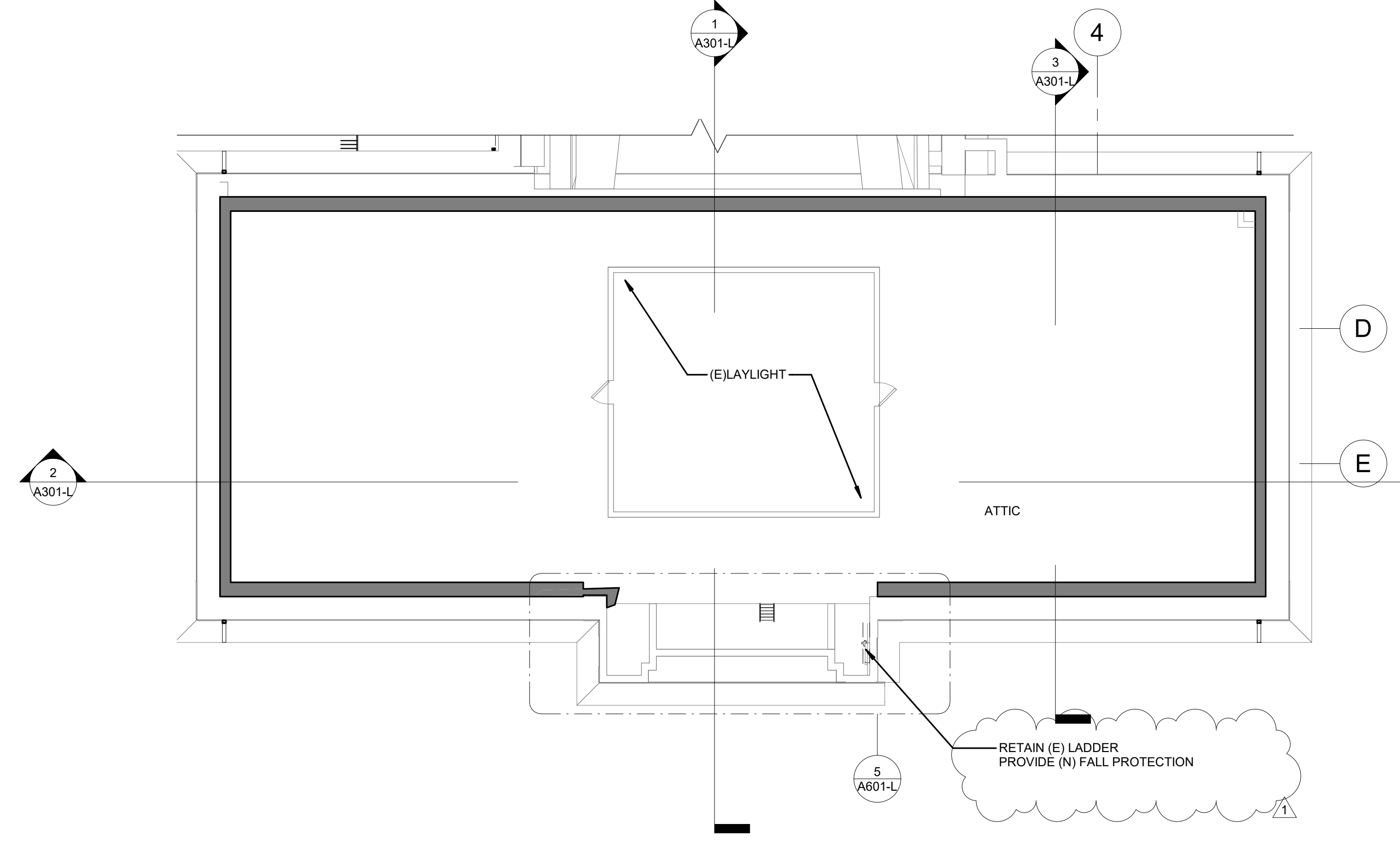
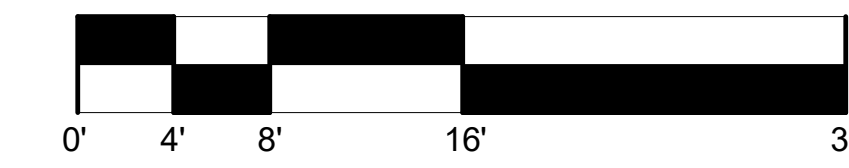
8 ROOF CONDITION - TERRACOTTA CORNICE



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



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



3 ATTIC PLAN - NEW WORK
1/8" = 1'-0"

SCOPE OF WORK

SEE ELEVATIONS FOR NEW MASONRY WORK AT FRONT SIDE OF PARAPET AND AT CHIMNEYS.

- R1: PITCHED SHINGLE ROOF**
- REPLACEMENT, B.O.D. TAG BOARD, ASSUME 30° OF LOWER PORTION AT FULL PERIMETER.
 - PREPARE ROOF DECK FOR INSTALLATION OF NEW FINISH ROOF. INSTALL NEW ROOF UNDERLAYMENT.
 - INSTALL NEW INSULATION.
 - INSTALL NEW ROOF FINISH AT ALL PITCHED ROOFS AS SPECIFIED.
 - INSTALL ROOF EDGE SAFETY SYSTEM, ATTACH PER MANUFACTURER'S RECOMMENDATIONS.

- R2: BUILT-IN GUTTER**
- PREPARE ROOF DECK FOR INSTALLATION OF NEW GUTTER LINER.
 - INSTALL NEW 4-PLY SBS ROOF MEMBRANE AT BUILT-IN GUTTER. SEE DETAILS.

- R3: SBS LOW SLOPE ROOF**
- INSTALL NEW 4-PLY SBS ROOF MEMBRANE AT LOW SLOPE ROOF. SEE 8/A611-L.

- R3: PARAPET**
- REPOINTING: 100% REPOINTING AT ROOF FACING SIDE EXTERIOR SIDE - SEE ELEVATIONS.
 - ALLOW FOR ~100 BRICK UNITS REPLACEMENT AT ROOF-FACING SIDE.
 - SAW-CUT REGLETS AT RISING WALLS.

- R4: PENETRATIONS**
- VENT PIPE & EXHAUST FANS: COORD W MEP FOR LOCATIONS.
 - CHIMNEYS - STEP FLASHING @ MASONRY, CRICKETS.

- R5: ROOF DRAINS TO SCUPPER & LEADER**
- PROVIDE NEW ROOF DRAINS.
 - INSTALL NEW SCUPPER. SEE DETAIL 8/A611-L.
 - PROVIDE VIDEO SCOPE AT DOWNSPOUT LOCATIONS FROM GROUND OUT TO 15'

- R6: COPING (LIMESTONE)**
- REPOINTING: 100% REPOINTING RAKE OUT EXISTING MORTAR AND REPOINT AT BED JOINTS AND CROSS JOINTS. AT EXTERIOR BED JOINT AND FRONT, TOP, AND BACK JOINTS, HOLD MORTAR BACK APPROX 1/2" AND INSTALL BACKER AND SEALER. SEE DETAIL 8/A612-L.

MASONRY REPAIR LEGEND

REFER TO DWG A201-L MASONRY REPAIR SCHEDULE

- SPALLS, DAMAGED TERRACOTA
- ABANDONED METAL OBJECT - REMOVE PATCH / REPAIR MASONRY
- CRACK - SEE STRUCTURAL
- PH1 PHOTO REFERENCE

ROOF LEGEND

- LIGHT FIXTURE - SEE ELEVATIONS AND ELEC DWGS
- OVERFLOW SCUPPER - SEE A611-L ROOF DETAILS
- ROOF FENCE
- ROOF LADDER - SEE A601-L ROOF ACCESS DETAILS

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M.E.P./F.P./SITE CIVIL ENGINEERS:
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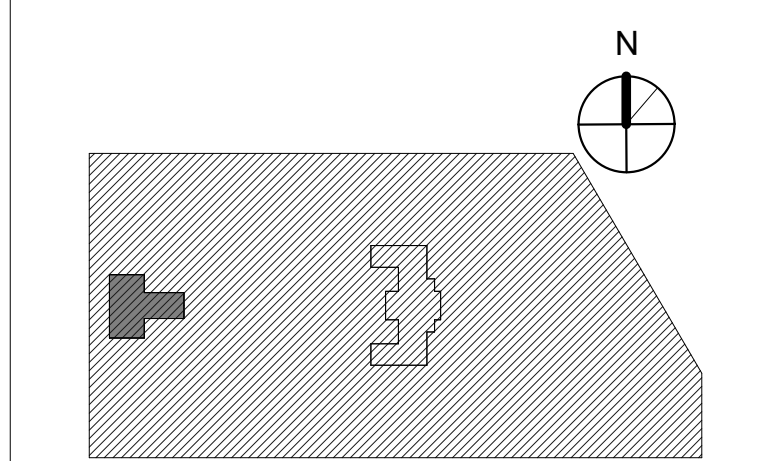
LEED CONSULTANT:
Verde Architecture Consulting
1635 Market Street Suite 1600
Philadelphia PA 19103



CITY OF PHILADELPHIA
FREE LIBRARY OF PHILADELPHIA
1901 VINE ST
PHILADELPHIA, PA 19103

PROJECT TITLE
KINGSESSING LIBRARY BUILDING RENOVATIONS AND SITE IMPROVEMENTS

KEY PLAN



DRAWING TITLE
NEW WORK PLAN - ROOF

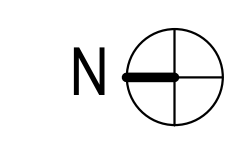
PROJECT NO. **21070** DRAWING NO.

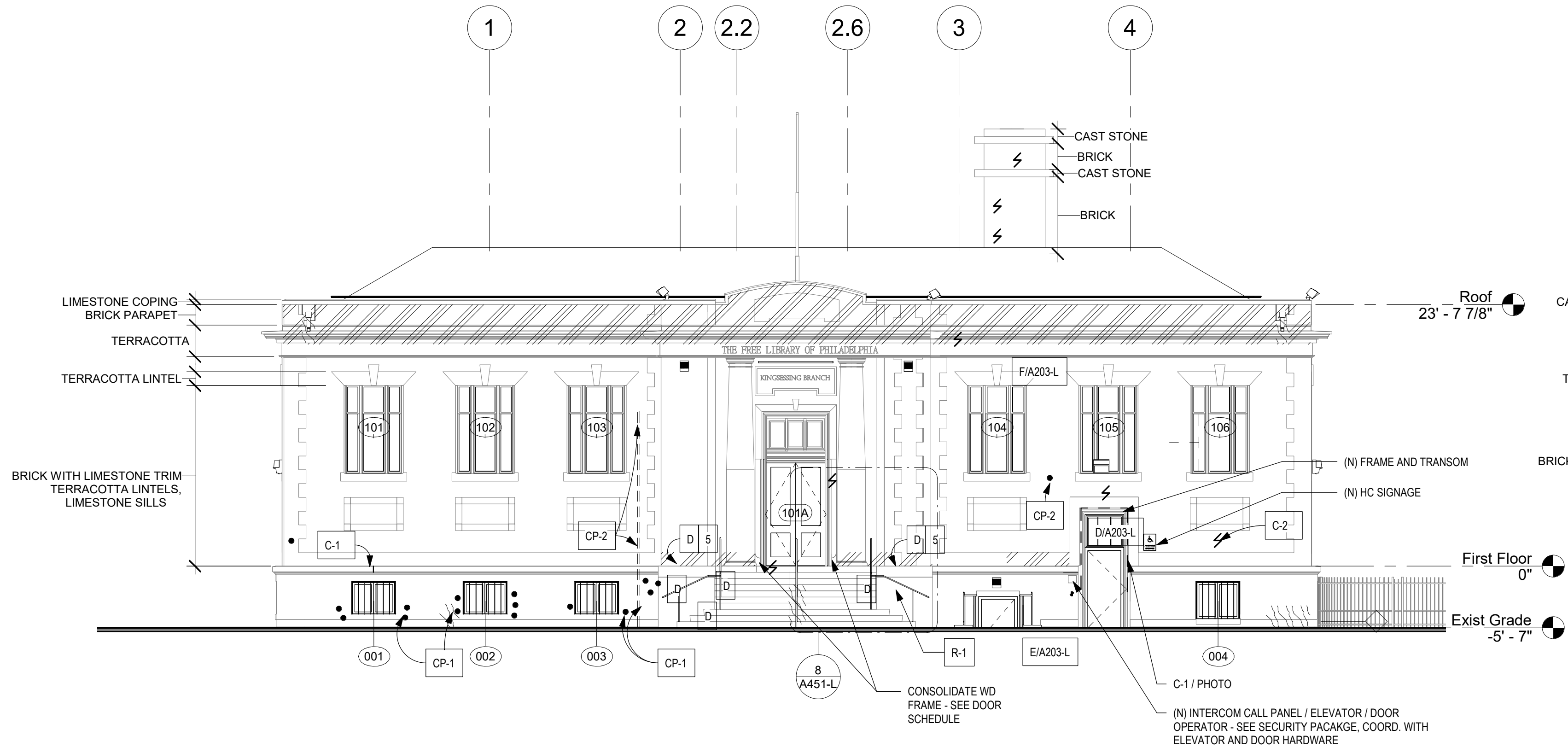
DATE 9/7/22
SCALE As indicated
DRAWN BY A.F.
CHECKED BY D.B.

A103-L

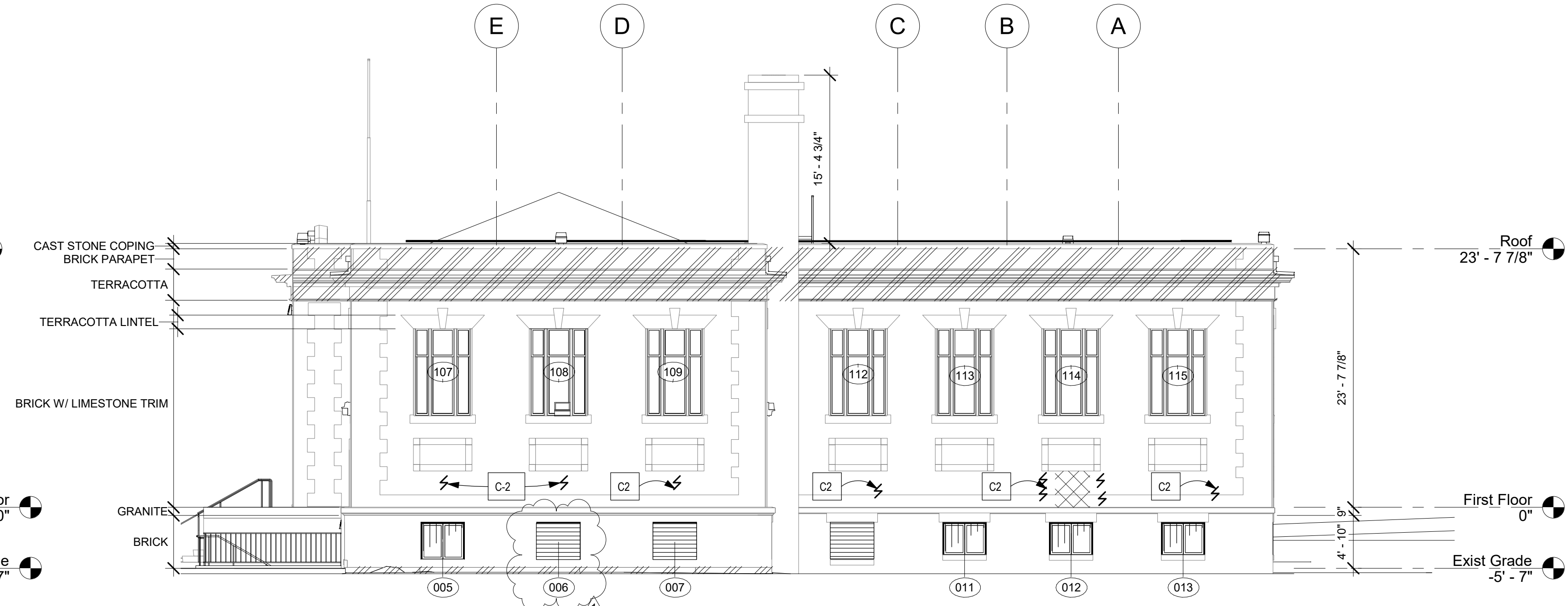
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

STAMP AREA

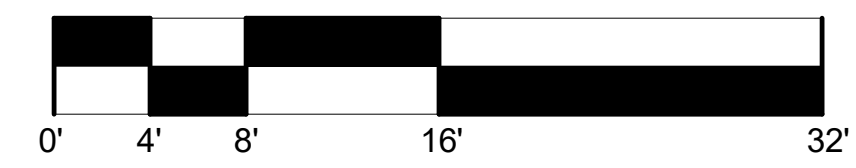




1 WEST ELEVATION - NEW WORK
1/8" = 1'-0"



2 SOUTH ELEVATION - NEW WORK
1/8" = 1'-0"



MASONRY REPAIR SCHEDULE

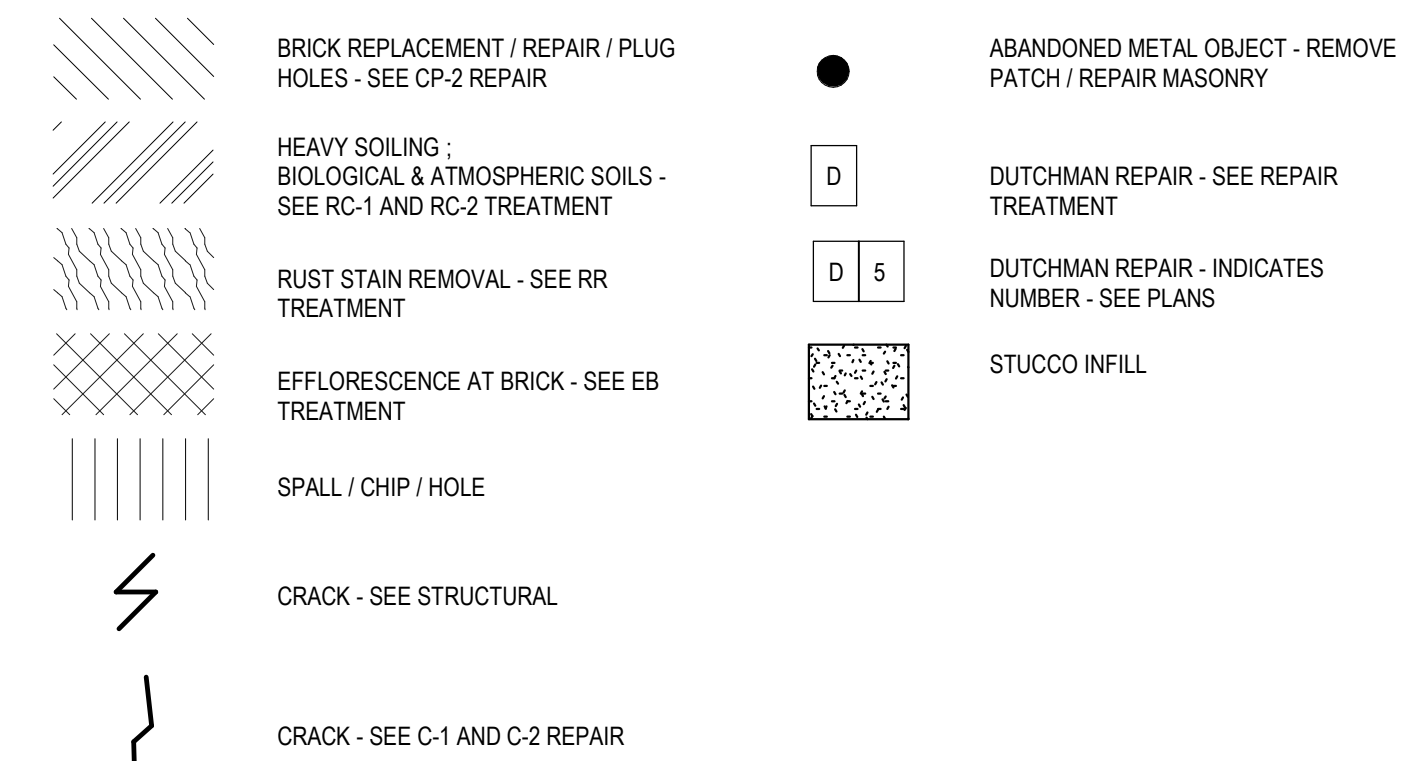
MARK	Condition	Substrate	Treatment	Basis of Design	Color Texture	ASSUMED QTY West	ASSUMED QTY South	Comments
Masonry Repair								
RP-1	Aged / Deteriorated / Open / failed mortar joints.	Brick	100% repoint with historic pointing mortar.	Jahn 110 pointing mortar	MatchSubstrate; assume up to 5 colors	1150 SF	1370 SF	See DTL 7/A612-L
RP-2	Aged / Deteriorated / Open / failed mortar joints.	Terracotta cornice, string band, sill band, and keystone	100% repoint with historic pointing mortar.	Jahn 110 pointing mortar	MatchSubstrate; assume up to 5 colors	800 SF	330 SF	See DTL 2/A612-L
RP-3	Aged / Deteriorated / Open / failed mortar joints.	Lime stone quoins, door surround, banding, sills, entry	100% repoint with historic pointing mortar.	Jahn 110 pointing mortar	MatchSubstrate; assume up to 5 colors	800 LF	360 SF	See DTL 7/A612-L
RP-4	Aged / Deteriorated / Open / failed mortar joints.	Granite base & water table course	100% repoint with historic pointing mortar	Jahn 110 pointing mortar	MatchSubstrate; assume up to 5 colors	450 SF	350 SF	See DTL 7/A612-L
RP-S	Skyward-facing joints.	Terracotta cornice; limestone coping	Repoint and Sealant - see roof plan	Silicone sealant, non-sag, single component	Match Substrate	350	360	Remove existing joint material and clean prior to installing; See DTL 8/A612-L
DM	Spalled Stone; holes	Granite, Limestone	Stone Dutchman Repair	Natural stone - match	Match Substrate	4 at ELEV; 10 at Stair walls - see plan	n/a	See DTL 5/A612-L
RT	Surface Deterioration	Granite	Power wash and clean to remove loose material down to sound material.	N/A	Match Substrate	Assume 20 SF	Assume 20 SF	Notify design team if more than 1" of surface material is removed
C-1	Masonry Crack	All masonry - Vertical cracks (typ at joints)	Saw cut joint, install EJ C-2 Repair of units as needed / indicated	See Spec	Match Substrate	10 LF	--	Assume ave 10 brick repair at each location; See DTL 7/A612-L
C-2	Masonry Crack	All masonry, diagonal and/or thru unit	Grout repair, crack repair, masonry repair and brick repair or replacement	Brick or Soft Stone: Cathedral Stone M32 or M35 injection grout; Granite & Limestone: Cathedral Stone M31	Match Substrate	20 LF	20 LF	M35 for voids larger than 3/8"; Assume ave 5 brick repair at each location; See DTL 6/A612-L
R-1	Displaced Stone	All masonry	Reset stone and re-mortar	N/A	N/A	Stair	N/A	See Specs
CP-1	Chips, holes, voids	All stone units	Cementitious patch repair	Limestone: Jahn M70; Granite: Jahn M160; TC/Brick: Jahn M100; Pointing Mortar: Jahn M110	Match substrate	Assume 30 locations	Assume 10 Locations	Stone See DTL 5/A612-L
CP-2	Embedded metal objects	All masonry	Remove metal object; cementitious patch repair	Limestone: Jahn M70; Granite: Jahn M160; TC/Brick: Jahn M100; Pointing Mortar: Jahn M110	Match substrate	Assume 5	Assume 10	Clean any rust prior to patching; See DTL 4/A612-L
CP-3	Spalled Bisque, Chips	Terracotta	Cementitious patch repair	Cathedral Stone/Jahn system: M100 TC patching; M110 pointing repair; CSP Potassium Silicate (Mineral coating); CSP Terra Cotta Glaze Finish	Color & finish - match existing terracotta	5 LOC / 20 SF	1 LOC / 10 SF	See DTL 1/A612-L
Masonry Cleaning								
CL	Atmospheric soils; biological, Efflorescence	All masonry	Low pressure water cleaning	N/A	N/A	--	--	100% of surface area. Pretreat as needed
RC	Atmospheric soils; biological, Efflorescence	Granite, terracotta, Limestone, brick	Restoration Chemical Cleaner	Cathedral Stone Bio Cleaner; Light & Heavy Duty Cleaner; Efflorescence...	N/A	350 SF	450 SF	Medium to be determined by testing; Pretreat areas before...
OX	Atmospheric soils; biological, Efflorescence	Limestone	After RC treatment, spot treatment of remaining stains	Cathedral Stone Oxidation Remover or heavy duty cleaner	N/A	50	75	Medium to be determined by testing; protect limestone and...
RR-1	Rust Staining	Granite, limestone, brick	Rust Remover	Cathedral Stone Rust Remover, Light & Heavy Duty Cleaner	N/A	200 SF	200 SF	
RR-2	Rust Staining	Terracotta	Rust Remover	Cathedral Stone	N/A	50 SF	50 SF	Medium to be determined by testing; protect limestone & terracotta from cleaners
PR	Graffiti Paint	Granite, Brick, Limestone	Paint Remover	Cathedral Stone Graffiti Remover	N/A	500 SF	500 SF	

NOTES: AT AREAS OF FERROUS METAL WHERE REINFORCEMENT IS EXPOSED TO REPAIR AREA OR REPAIRS ARE ADJACENT TO FERROUS METAL JAMBS, LINTELS, OR ANCHORING SYSTEMS, PREPARE METAL SURFACE AND APPLY COATING: B.O.D. COROTECH V160 SURFACE TOLERANT EPOXY MASTIC.

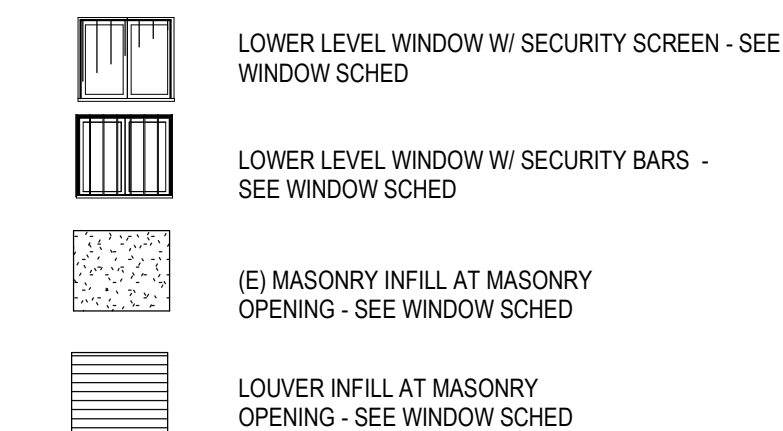
EXTERIOR SCOPE NOTES:

- INSTALL ALL NEW METAL WINDOWS.
- CLEAN, SCRAPE, AND REPAIR SECURITY BARS AND REINSTALL
- INSTALL NEW SECURITY BARS AT WINDOW 004
- INSTALL NEW ALUMINUM AND GLASS DOORS. REPAIR WOOD DOOR FRAME AND TRANSOM; REMOVE EXISTING PAINT, PREP, AND REPAIR.
- SEE ROOF PLAN FOR WORK AT PARAPET ROOF SIDE.
- SEE ROOF PLAN FOR NEW ANTI-CLIMBING DEVICE AT CORNICE
- MASONRY REPAIRS, THROUGHOUT. SEE ALSO STRUCTURAL DRAWINGS.
- 100% CLEANING WITH RESTORATION CLEANER.
A. HEAVILY SOILED AREAS
B. SKY-FACING SURFACES AT CORNICES, LINTELS, AND BANDING.
C. PARAPETS
- REMOVE ALL BIOLOGICAL GROWTH.
- REMOVE RUST STAINING.
- 100% REPOINT GRANITE BASE, LIMESTONE & TERRACOTTA
- REPOINT 100% BRICK AT PARAPET, INCL BACK SIDE.
- REPOINT BRICK: 100% OF BRICK AT BASE (AFTER PAINT REMOVAL); 100% OF BRICK FACADE ABOVE BASE
- REPOINT 100% COPING - SEE ROOF PLAN
- RESECURE CORNER CORNICE PIECE, REPAIR CRACK - SEE PHOTO 8A103-L; SEE SCHEDULE
- REPOINT AND SEAL AT ALL SILLS
- REPAIR CHIPS AT SILLS; ASSUME 50% OF SILLS
- REPOINT MAIN STAIR
- NEW ADA COMPLIANT HANDRAILS AT ENTRY STAIR
- INSTALL NEW HANDRAILS & GUARD RAILS AT EXTERIOR EGRESS STAIR. REBUILD STAIR - SEE PLANS
- INSTALL NEW HM EXTERIOR DOORS / TRANSOMS AS SCHEDULED
- INSTALL SECURITY CALL BUTTON AT ELEVATOR
- INSTALL NEW ALUM AND GLASS ENTRY DOOR.
- CORNICE: AFTER CLEANING, CEMENTITIOUS PATCH REPAIRS, AND REPOINTING, APPLY CATHEDRAL STONE/JAHN CSP POTASSIUM SILICATE (MINERAL) COATING THROUGHOUT.

MASONRY REPAIR GRAPHIC KEY



ELEVATION GRAPHIC KEY



STAMP AREA

REVISIONS

ISSUE	DATE	DESCRIPTION
0	09/07/22	ISSUE FOR BID
1	09/26/22	ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR

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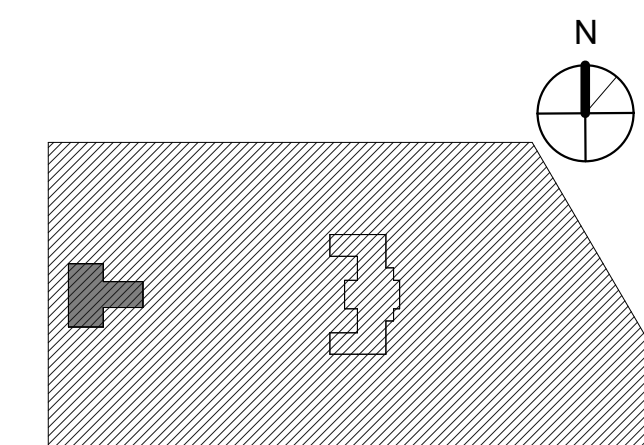


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PHILADELPHIA, PA 19103

PHILADELPHIA PENNSYLVANIA

**KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS**

KEY PLAN



**BUILDING ELEVATIONS -
WEST & SOUTH**

PROJECT NO.

21070

DRAWING NO.

A201-L

DATE

9/7/22

SCALE

As Indicated

DRAWN BY

A.F.

CHECKED BY

D.B.

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

REVISIONS

ISSUE	DATE	DESCRIPTION
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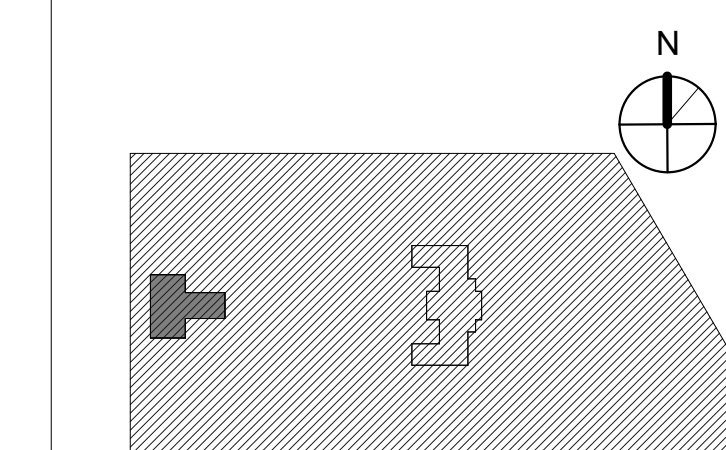


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PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
**KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS**

KEY PLAN



DRAWING TITLE
**BUILDING ELEVATIONS -
EAST & NORTH**

PROJECT NO.
21070

DATE
9/7/22

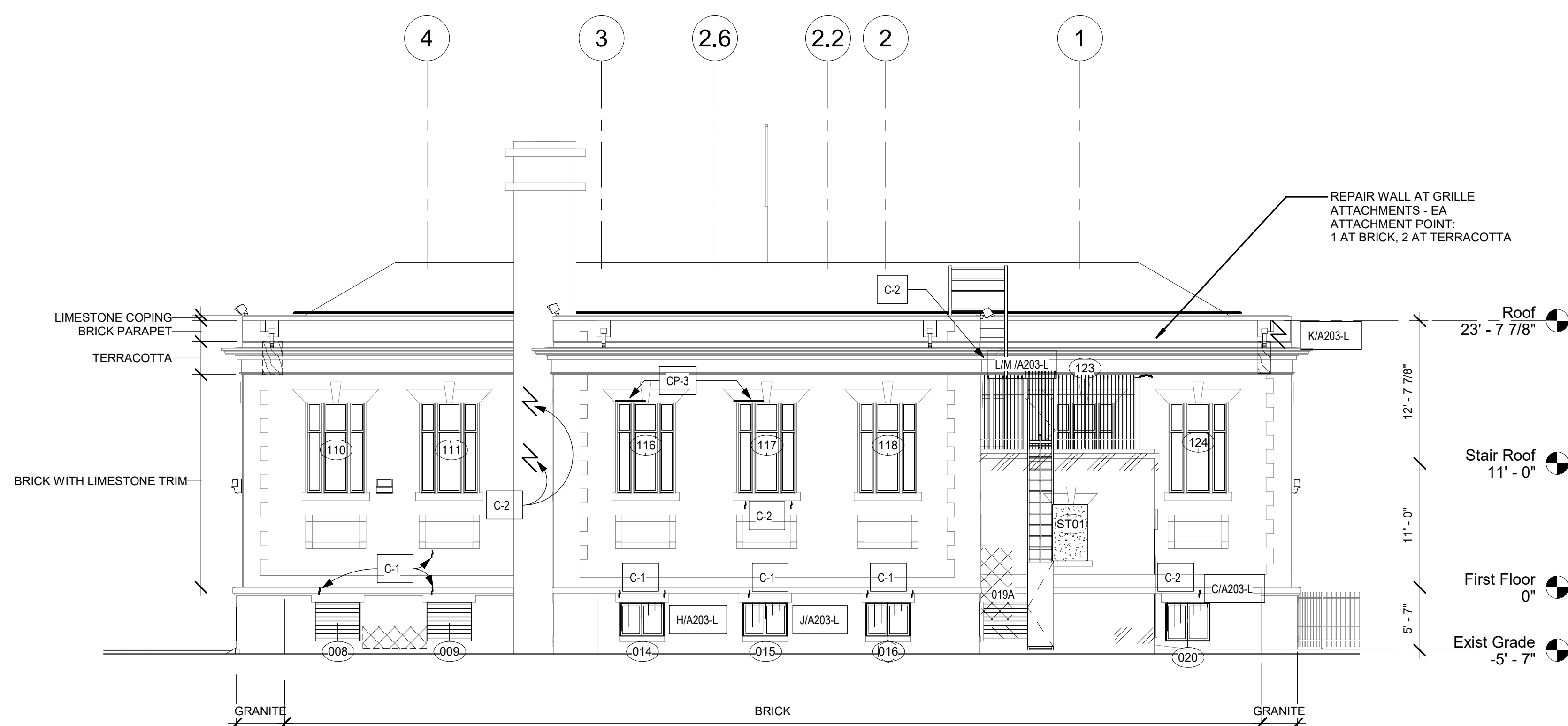
SCALE
As Indicated

DRAWN BY
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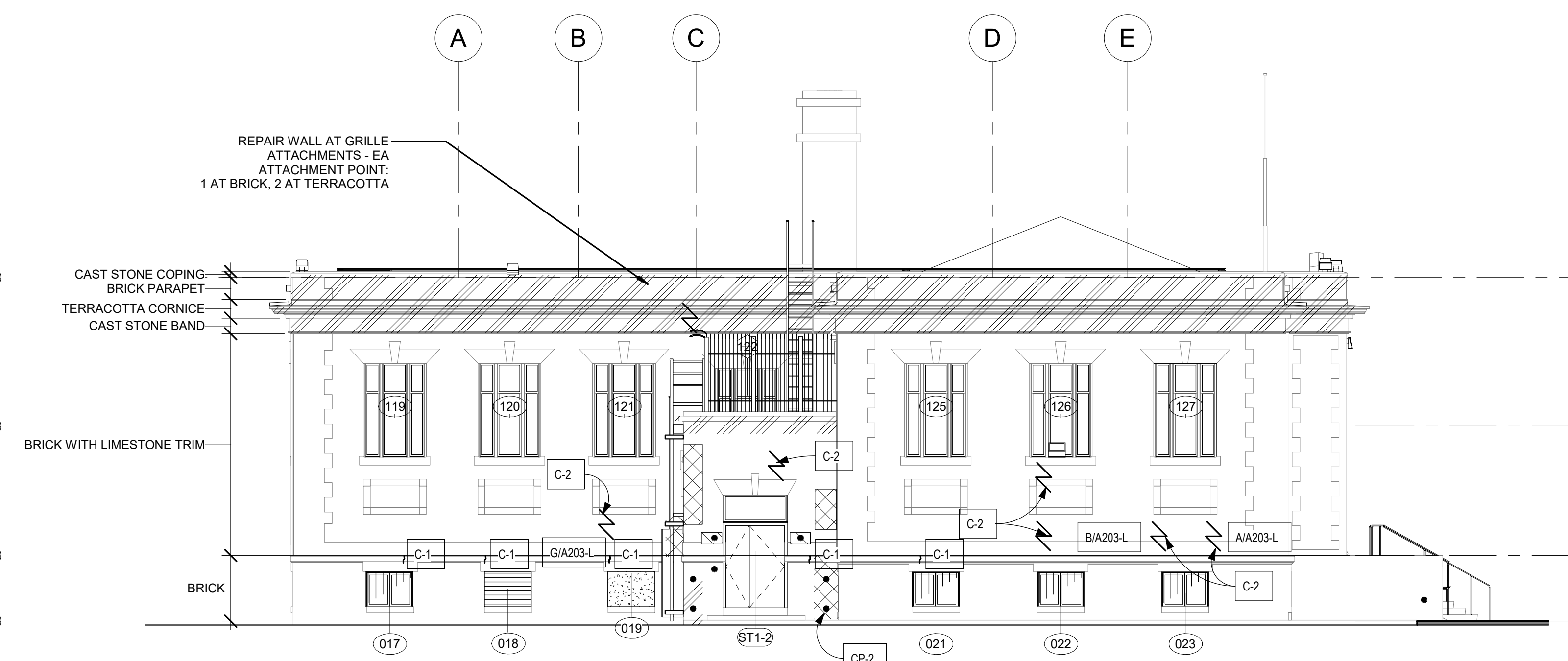
CHECKED BY
D.B.

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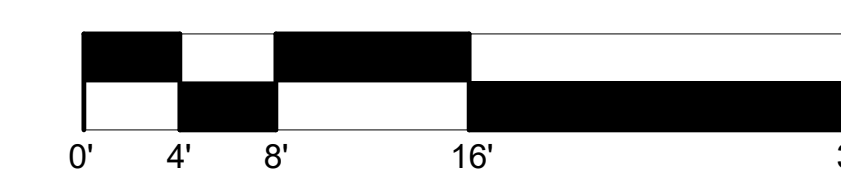
DRAWING NO.
A202-L



1 EAST ELEVATION - NEW WORK
1/8" = 1'-0"



2 NORTH ELEVATION - NEW WORK
1/8" = 1'-0"



MASONRY REPAIR SCHEDULE

MARK	Condition	Substrate	Treatment	Basis of Design	Color Texture	ASSUMED QTY East	ASSUMED QTY North	Comments
Masonry Repair								
RP-1	Aged / Deteriorated / Open / failed mortar joints.	Brick	100% repoint with historic pointing mortar.	Jahn 110 pointing mortar	MatchSubstrate,assume up to 5 colors	1750 SF	1480 SF	See DTL 7/A612-L
RP-2	Aged / Deteriorated / Open / failed mortar joints.	Terracotta cornice, string band, sill band, and keystone	100% repoint with historic pointing mortar.	Jahn 110 pointing mortar	MatchSubstrate,assume up to 5 colors	250 SF	250 SF	See DTL 7/A612-L
RP-3	Aged / Deteriorated / Open / failed mortar joints.	Lime stone quoins, door surround, banding,sills, entry	100% repoint with historic pointing mortar.	Jahn 110 pointing mortar	MatchSubstrate,assume up to 5 colors	520 LF	650 SF	See DTL 7/A612-L
RP-4	Aged / Deteriorated / Open / failed mortar joints.	Granite base & water table course	100% repoint with historic pointing mortar	Jahn 110 pointing mortar	MatchSubstrate,assume up to 5 colors	100 SF	100 SF	See DTL 7/A612-L
RP-S	Skyward-facing joints.	Terracotta cornice; limestone coping	Repoint and Sealant - see roof plan	Silicone sealant, non-sag, single component	Match Substrate	350 SF	360 SF	Remove existing joint material and clean prior to installing; See DTL 8/A612-L
DM	Spalled Stone; holes	Granite, Limestone	Stone Dutchman Repair	Natural stone - match	Match Substrate	N/A	N/A	See DTL 5/A612-L
RT	Surface Deterioration	Granite	Power wash and clean to remove loose material down to sound material.	N/A	Match Substrate	Assume 20 SF	Assume 20 SF	Notify design team if more than 1" of surface material is removed
C-1	Masonry Crack	All masonry - Vertical cracks (typ at joints)	Saw cut joint, install EJ C-2 Repair of units as needed / indicated	See Spec	Match Substrate	15 LF	10 LF	Assume ave 10 brick repair at each location; See DTL 7/A612-L
C-2	Masonry Crack	All masonry, diagonal and/or thru unit	Grout repair, crack repair, masonry repair and brick repair or replacement	Brick or Soft Stone: Cathedral Stone M32 or M35 injection grout; Granite & Limestone: Cathedral Stone M31	Match Substrate	20 LF	15 LF	M35 for voids larger than 3/8"; Assume ave 5 brick repair at each location; See DTL 6/A612-L
R-1	Displaced Stone	All masonry	Reset stone and point	N/A	N/A	N/A	N/A	
CP-1	Chips, holes, voids	All stone units	Cementitious patch repair	Limestone: Jahn M70; Granite: Jahn M160; TC/Brick: Jahn M100; Pointing Mortar: Jahn M110	Match substrate	Assume 15 locations	Assume 15 Locations	Stone See DTL 5/A612-L
CP-2	Embedded metal objects	All masonry	Remove metal object; cementitious patch repair	Limestone: Jahn M70; Granite: Jahn M160; TC/Brick: Jahn M100; Pointing Mortar: Jahn M110	Match substrate	See Elevations	See Elevations	Clean any rust prior to patching; See DTL 4/A612-L
CP-3	Spalled Bisque, Chips	Terracotta	Cementitious patch repair	Conproco Matrix system or cathedral stone system	Color & finish from manuf selection	1 LOC	2 LOC	Allowance 10 locations; See DTL 1/A612-L
Masonry Cleaning								
CL	Atmospheric soils; biological, Efflorescence	All masonry	Low pressure water cleaning	N/A	N/A	-	-	100% of surface area. Pretreat as needed
RC	Atmospheric soils; biological, Efflorescence	Granite, terracotta, Limestone, brick	Restoration Chemical Cleaner	Cathedral Stone Bio Cleaner; Light & Heavy Duty Cleaner; Efflorescence Remover	N/A	500 SF	500 SF	Medium to be determined by testing; Pretreat areas before high-pressure water cleaning
OX	Atmospheric soils; biological, Efflorescence	Limestone	After RC treatment, spot treatment of remaining stains	Cathedral Stone Oxidation Remover or heavy duty cleaner	N/A	50 SF	75 SF	Medium to be determined by testing; protect limestone and terracotta from cleaners; Apply after initial cleaning
RR-1	Rust Staining	Granite, limestone, brick	Rust Remover	Cathedral Stone Rust Remover, Light & Heavy Duty Cleaner	N/A	100 SF	100 SF	Medium to be determined by testing; protect limestone & terracotta from cleaners
RR-2	Rust Staining	Terracotta	Rust Remover	Cathedral Stone	N/A	50 SF	50 SF	
PR	Graffiti Paint	Granite, Brick, Limestone	Paint Remover	Cathedral Stone Graffiti Remover	N/A	500 SF	500 SF	

NOTES: AT AREAS OF FERROUS METAL WHERE REINFORCEMENT IS EXPOSED TO REPAIR AREA OR REPAIRS ARE ADJACENT TO FERROUS METAL JAMBS, LINTELS, OR ANCHORING SYSTEMS, PREPARE METAL SURFACE AND APPLY COATING: B.O.D. COROTECH V160 SURFACE TOLERANT EPOXY MASTIC.

EXTERIOR SCOPE NOTES:

- INSTALL ALL NEW METAL WINDOWS.
- CLEAN, SCRAPE, AND REPAINT SECURITY BARS AND REINSTALL
- INSTALL NEW SECURITY BARS AT WINDOW 004
- INSTALL NEW ALUMINUM AND GLASS DOORS. REPAIR WOOD DOOR FRAME AND TRANSOM; REMOVE EXISTING PAINT, PREP, AND REPAINT.
- SEE ROOF PLAN FOR WORK AT PARAPET ROOF SIDE.
- SEE ROOF PLAN FOR NEW ANTI-CLIMBING DEVICE AT CORNICE
- MASONRY REPAIRS, THROUGHOUT. SEE ALSO STRUCTURAL DRAWINGS.
- 100% CLEANING WITH RESTORATION CLEANER.
 - A. HEAVILY SOILED AREAS.
 - B. SKY-FACING SURFACES AT CORNICES, LINTELS, AND BANDING.
 - C. PARAPETS
- REMOVE ALL BIOLOGICAL GROWTH.
- REMOVE RUST STAINING.
- 100% REPOINT GRANITE BASE, LIMESTONE & TERRACOTTA
- REPOINT 100% BRICK AT PARAPET, INCL BACK SIDE.
- REPOINT BRICK: 100% OF BRICK AT BASE (AFTER PAINT REMOVAL); 100% OF BRICK FACADE ABOVE BASE
- REPOINT 100% COPING - SEE ROOF PLAN
- RESECURE CORNER CORNICE PIECE; REPAIR CRACK - SEE PHOTO 8A103-L. SEE SCHEDULE
- REPOINT AND SEAL AT ALL SILLS
- REPAIR CHIPS AT SILLS; ASSUME 50% OF SILLS
- REPOINT MAIN STAIR
- NEW ADA COMPLIANT HANDRAILS AT ENTRY STAIR
- INSTALL NEW HANDRAILS & GUARD RAILS AT EXTERIOR EGRESS STAIR. REBUILD STAIR - SEE PLANS
- INSTALL NEW HM EXTERIOR DOORS / TRANSOMS AS SCHEDULED
- INSTALL SECURITY CALL BUTTON AT ELEVATOR
- INSTALL NEW ALUM & GLASS ENTRY DOOR.
- CORNICE: AFTER CLEANING, CEMENTITIOUS PATCH REPAIRS, AND REPOINTING, APPLY CATHEDRAL STONE/JAHN CSP POTASSIUM SILICATE (MINERAL) COATING THROUGHOUT.

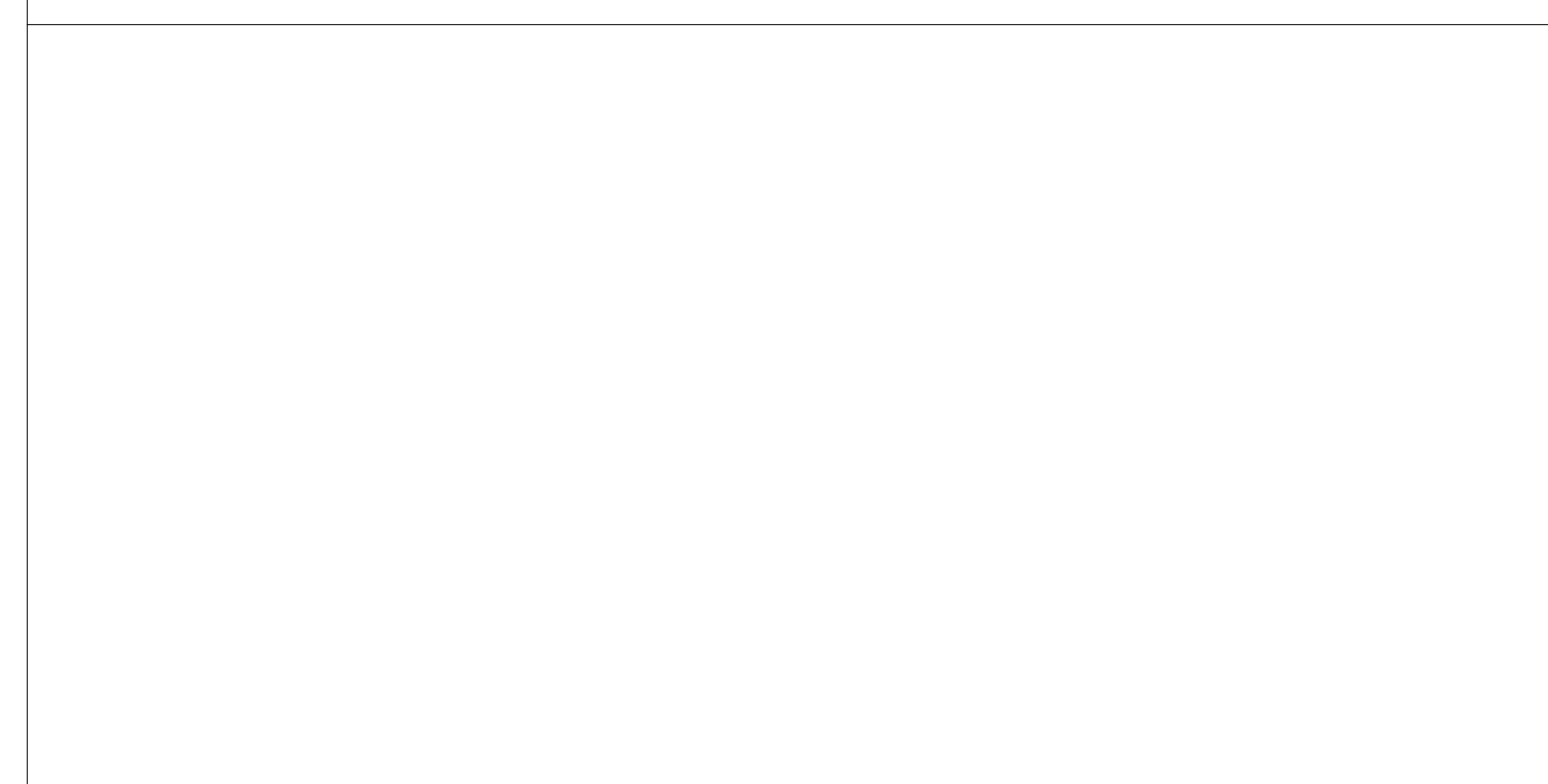
MASONRY REPAIR GRAPHIC KEY

	BRICK REPLACEMENT / REPAIR / PLUG HOLES - SEE CP-2 REPAIR		ABANDONED METAL OBJECT - REMOVE PATCH / REPAIR MASONRY
	HEAVY SOILING; BIOLOGICAL & ATMOSPHERIC SOILS - SEE RC-1 AND RC-2 TREATMENT		DUTCHMAN REPAIR - SEE REPAIR TREATMENT
	RUST STAIN REMOVAL - SEE RR TREATMENT		DUTCHMAN REPAIR - INDICATES NUMBER - SEE PLANS
	EFFLORESCENCE AT BRICK - SEE EB TREATMENT		STUCCO INFILL
	SPALL / CHIP / HOLE		
	CRACK - SEE STRUCTURAL		
	CRACK - SEE C-1 AND C-2 REPAIR		

ELEVATION GRAPHIC KEY

	LOWER LEVEL WINDOW W/ SECURITY SCREEN - SEE WINDOW SCHED
	LOWER LEVEL WINDOW W/ SECURITY BARS - SEE WINDOW SCHED
	(E) MASONRY INFILL AT MASONRY OPENING - SEE WINDOW SCHED
	LOUVER INFILL AT MASONRY OPENING - SEE WINDOW SCHED

STAMP AREA





A - NORTH ELEVATION



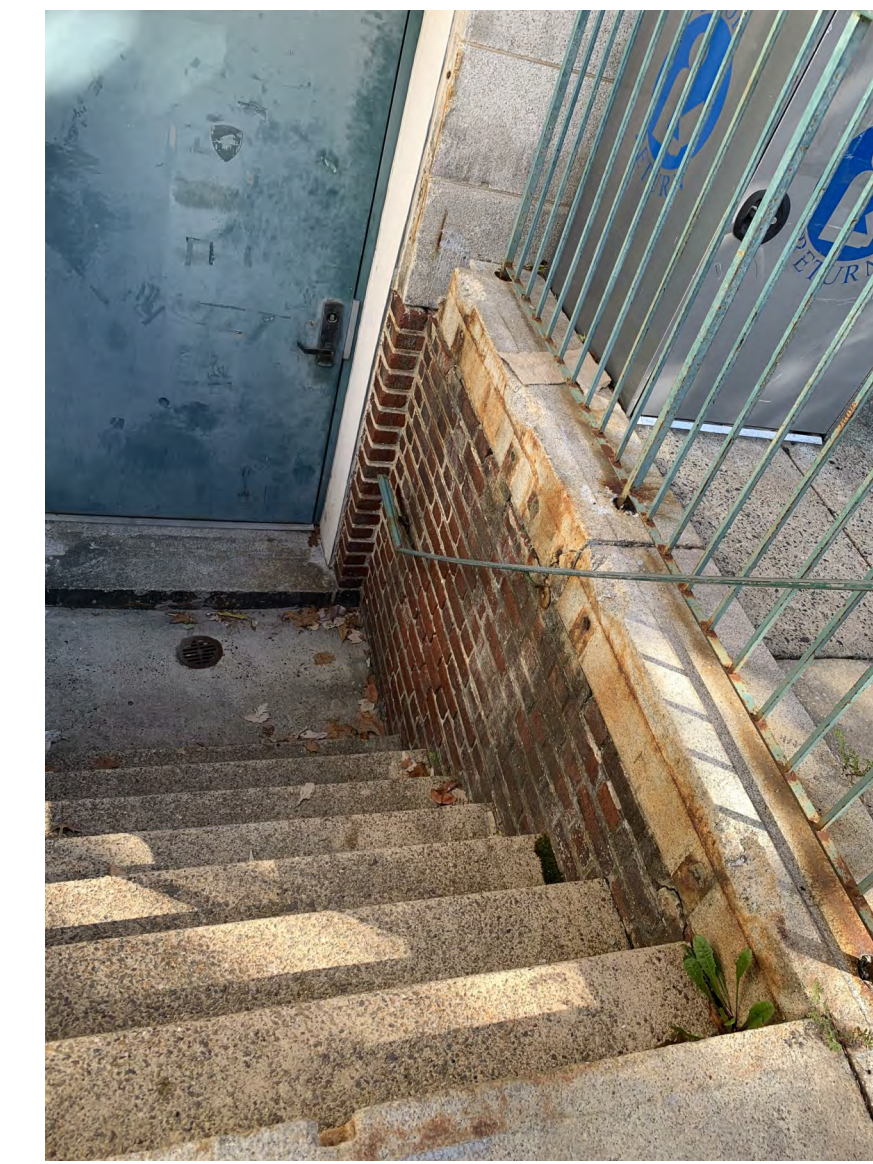
B - NORTH ELEVATION



C - EAST ELEVATION



D - WEST ELEVATION



E - WEST ELEVATION



F - WEST ELEVATION



G - NORTH ELEVATION



H - EAST ELEVATION



J - EAST ELEVATION



K - EAST ELEVATION

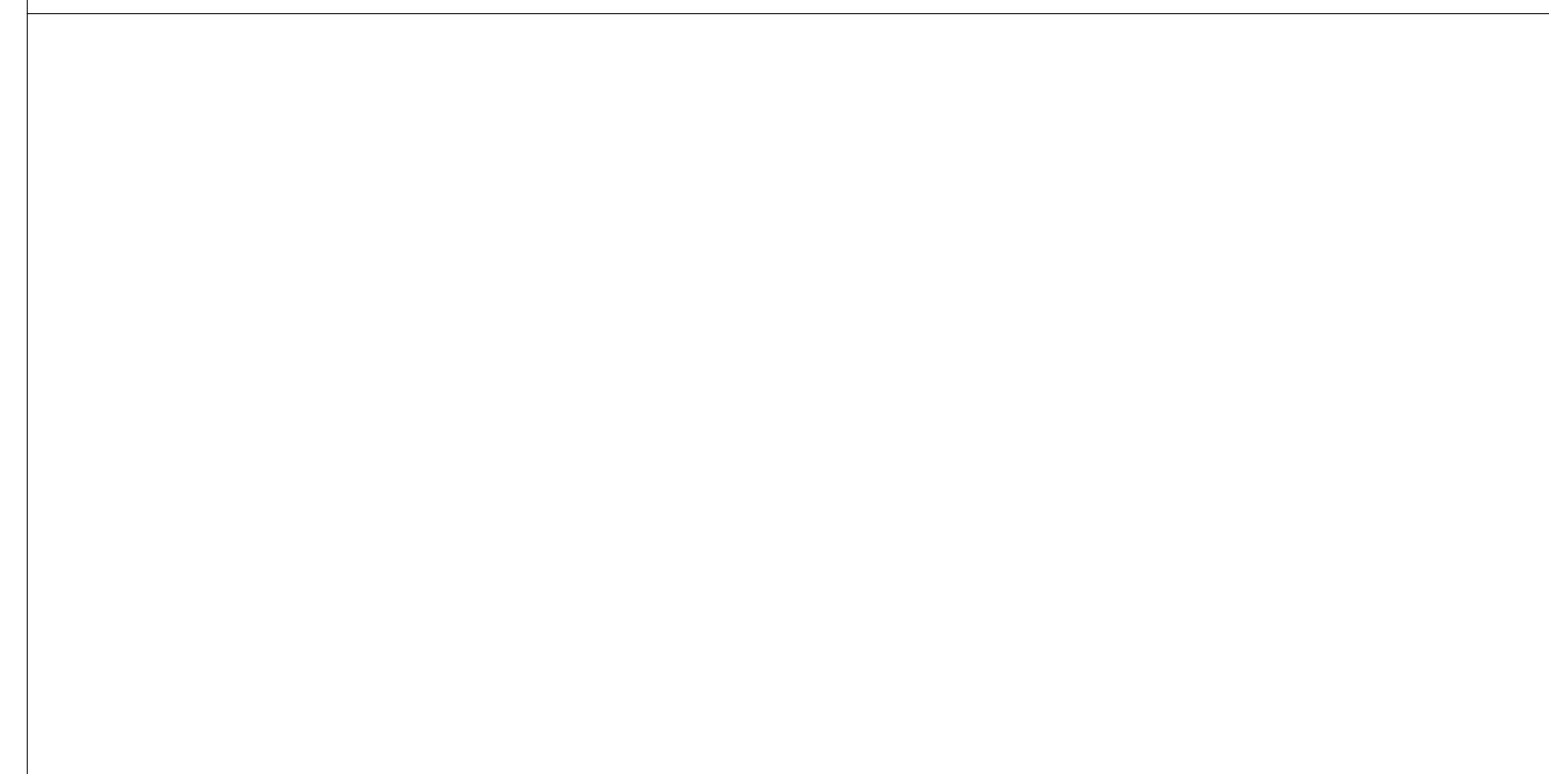


L - EAST ELEVATION (FROM NORTH)



M - EAST ELEVATION

STAMP AREA



REVISIONS

ISSUE	DATE	DESCRIPTION
0	09/07/22	ISSUE FOR BID
1	09/26/22	ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR

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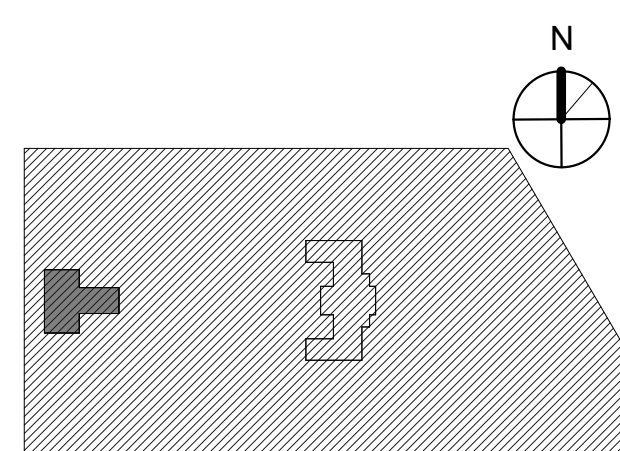


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PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
**KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS**

KEY PLAN



DRAWING TITLE
MASONRY REPAIR PHOTOS

PROJECT NO.
21070

DATE
9/7/22

SCALE

DRAWN BY
A.F.

CHECKED BY
D.B.

DRAWING NO.

A203-L

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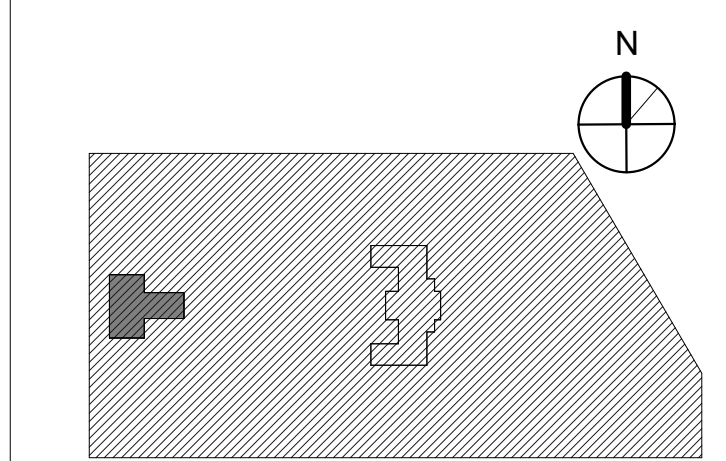


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KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS

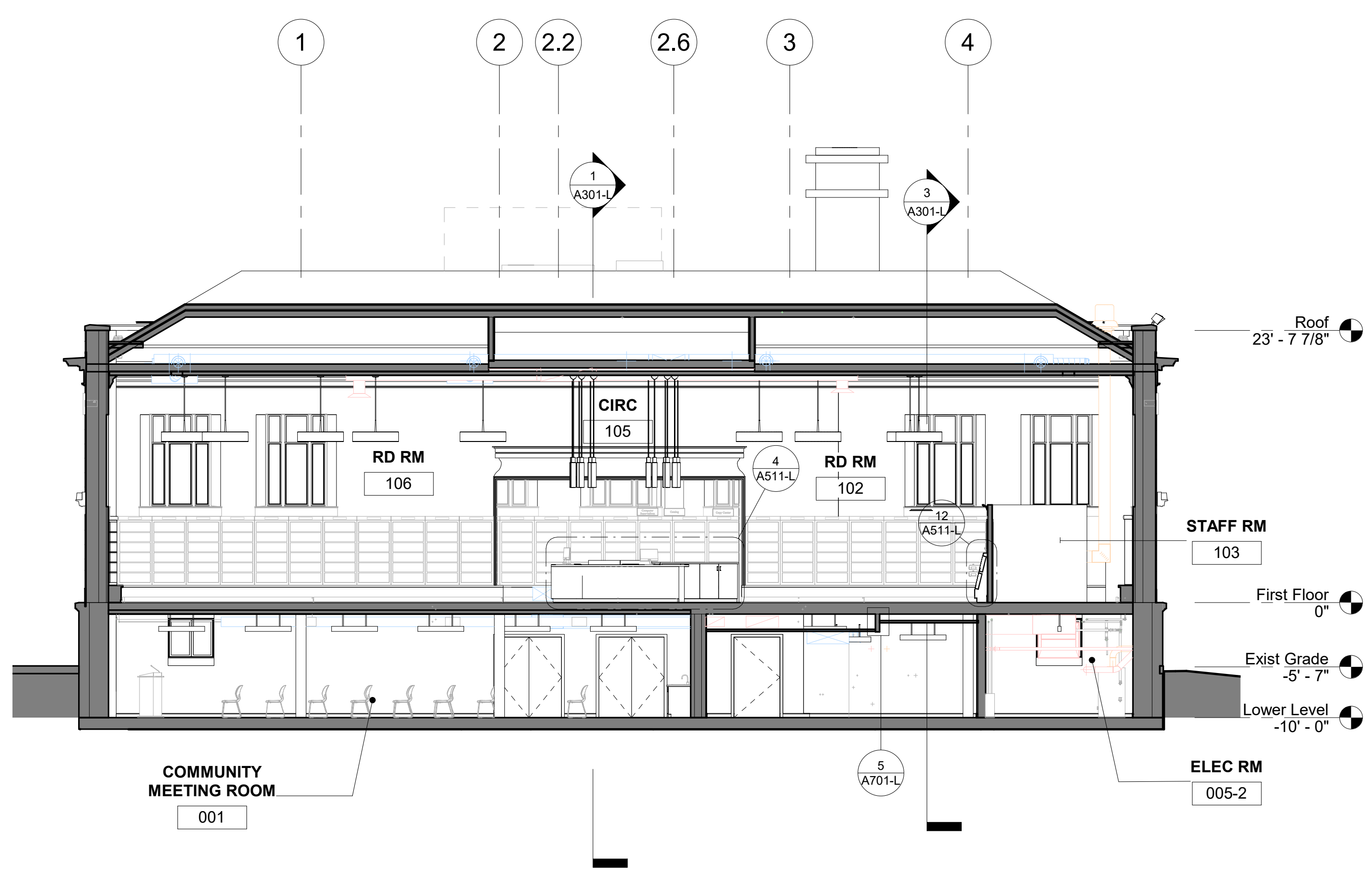
KEY PLAN



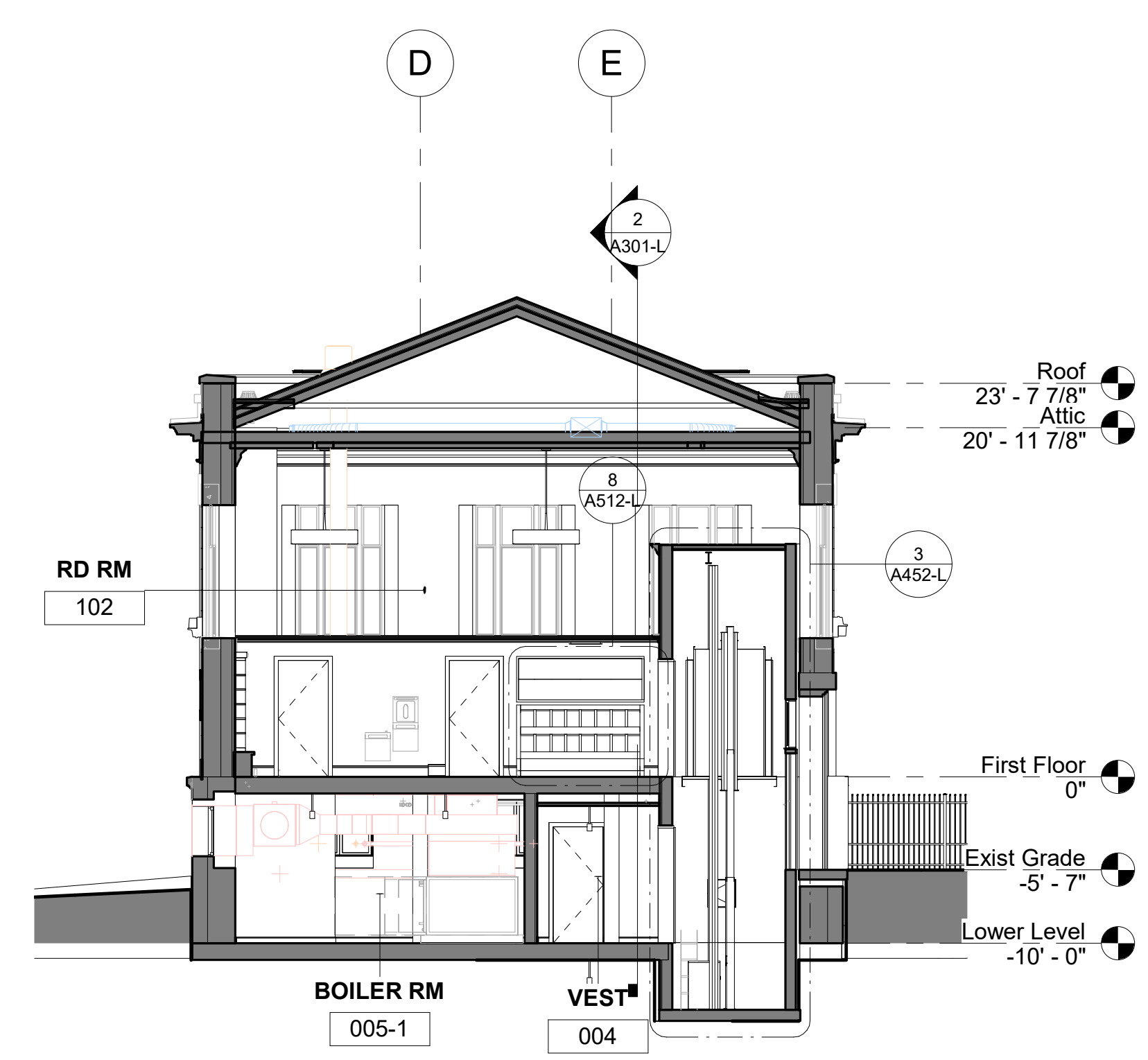
BUILDING SECTIONS

PROJECT NO.	21070	DRAWING NO.	A301-L
DATE	9/7/22		
SCALE	1/8" = 1'-0"		
DRAWN BY	A.F.		
CHECKED BY	D.B.		

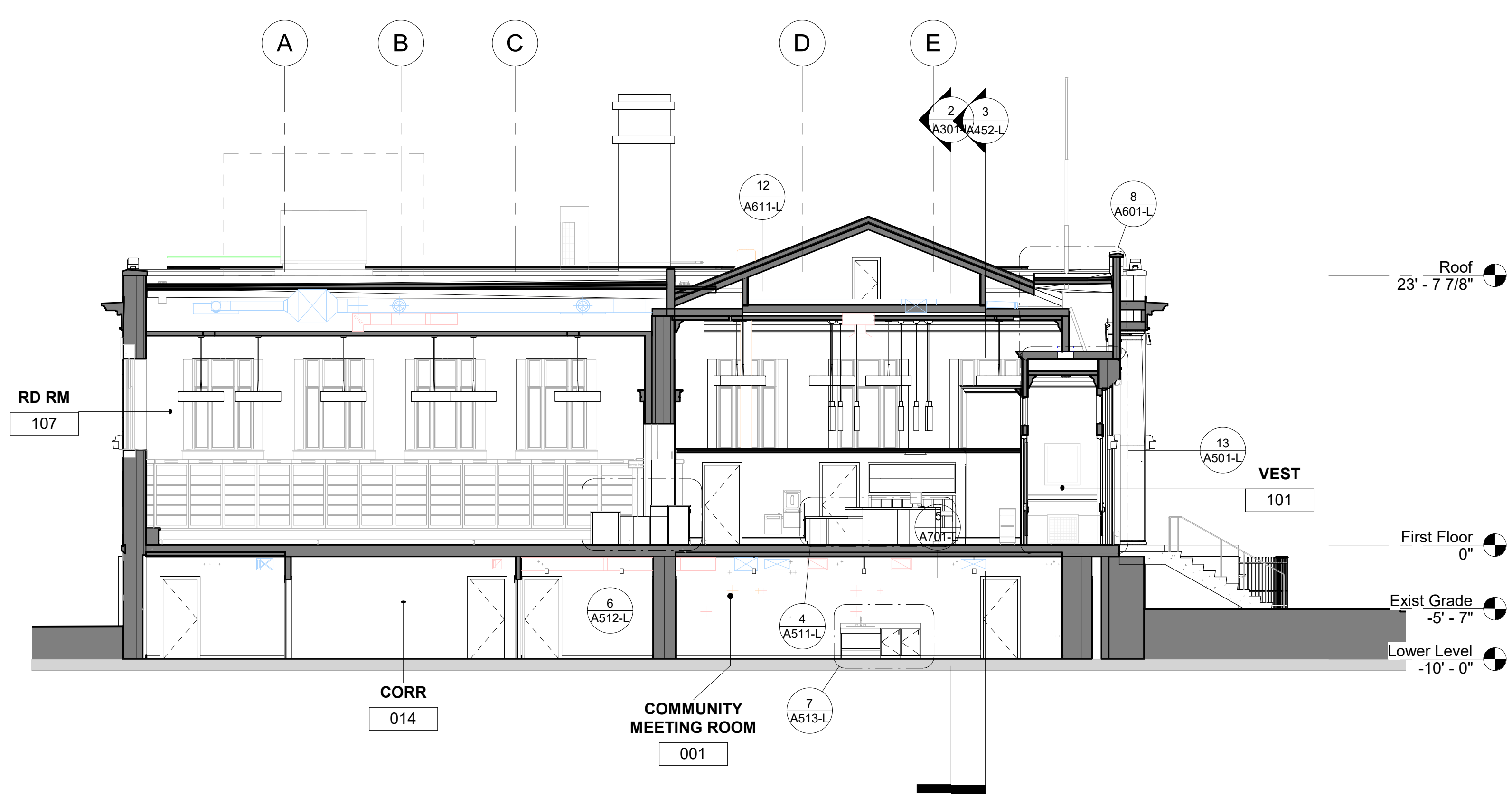
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



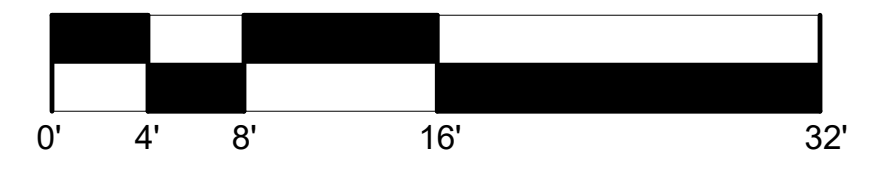
2 OVERALL SECTION 2
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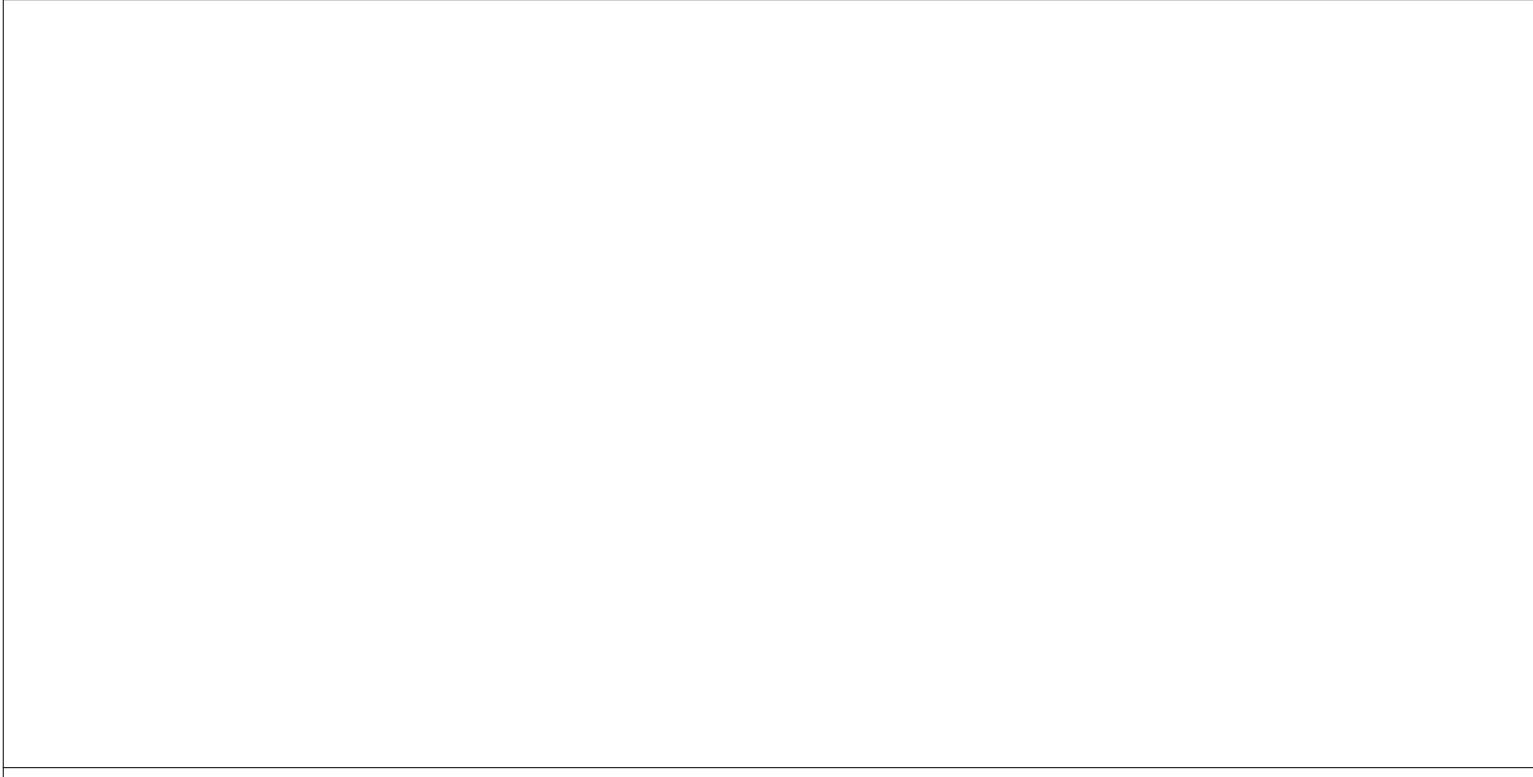
3 OVERALL SECTION 3
1/8" = 1'-0"



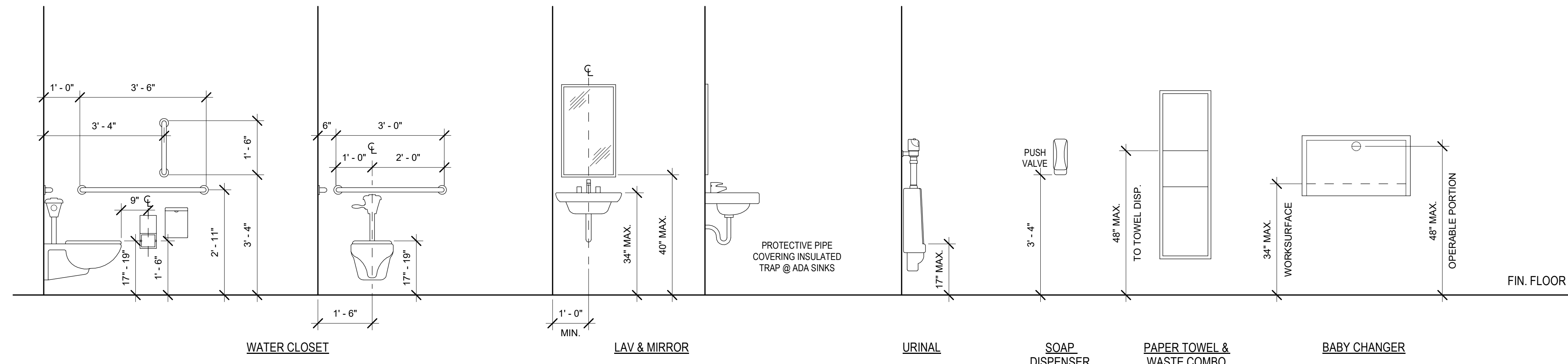
1 OVERALL SECTION 1
1/8" = 1'-0"



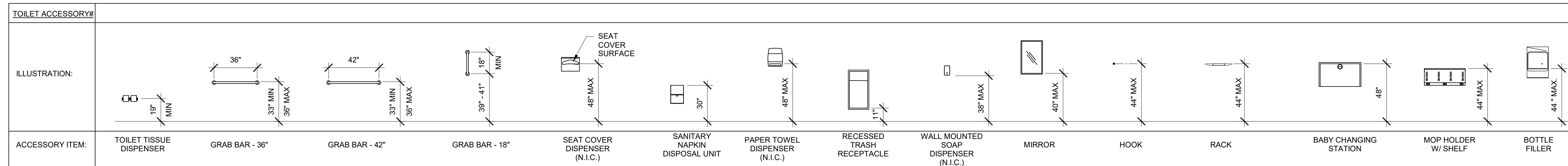
STAMP AREA



GENERAL NOTES:
 1. COORDINATE WITH INDIVIDUAL MANUFACTURER'S GUIDELINES FOR ACCESSIBLE INSTALLATIONS OF PRODUCTS AND ADVISE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES BEFORE PROCEEDING.
 2. FIXTURES DEPICTED IN TYPICAL DETAILS ARE FOR REFERENCE ONLY. REFER TO FINISH AND ACCESSORY SCHEDULES FOR ACTUAL PROJECT FIXTURES.



TYPICAL MOUNTING HEIGHT DETAILS
 1/2" = 1'-0"

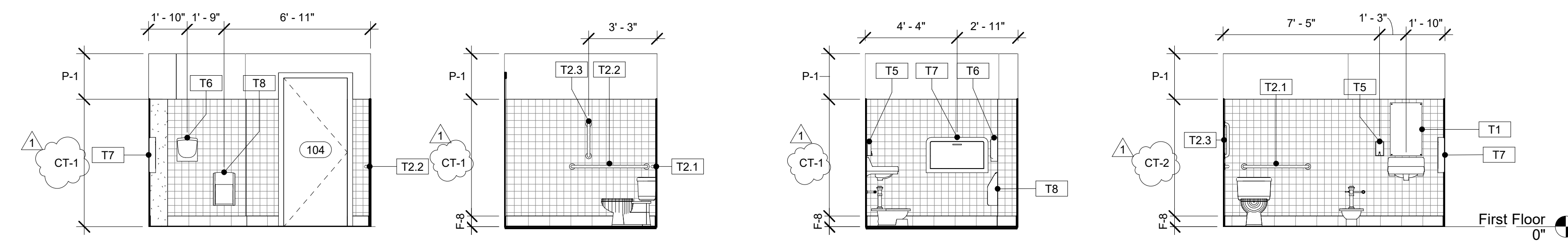


NOTE: EQUIPMENT INDICATED IN DIAGRAM MAY OR MAY NOT BE USED ON THIS PROJECT. REFER TO EQUIPMENT PLAN(S), INTERIOR ELEVATIONS, ETC. FOR LOCATION AND QUANTITIES OF ITEMS. CONFIRM WITH CITY ALL REQUIREMENTS FOR CITY FURNISHED, CONTRACTOR INSTALLED (OFCI) ITEMS.

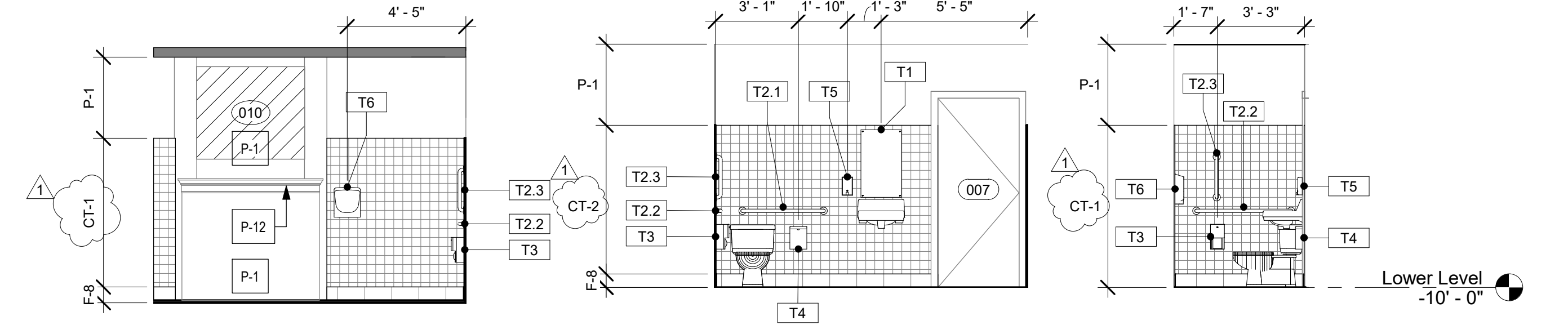
TOILET ACCESSORY MOUNTING HTS
 1/4" = 1'-0"

GENERAL NOTES:
 1. REMOVE EXISTING PAINT FINISH FROM INTERIOR SURFACES. ALLOW FOR DESIGN PROFESSIONAL INSPECTION, AND THEN PAINT
 2. REMOVE FLOOR FINISHES AND BASE THROUGHOUT. PATCH AND CLEAN SUBSTRATES AS NECESSARY TO RECEIVE NEW FINISHES. PATCH AND REPAIR ANY DAMAGED FLOOR OR IRREGULARITIES INCLUDING DEPRESSIONS AND CRACKS TO PREPARE FOR NEW FINISHES.
 3. FOR INFILLED WINDOWS TO REMAIN REMOVE EXISTING PAINT FINISH FROM WINDOW SURROUND SURFACES. REPAIR, SCRAPE AND REPAINT WOOD WINDOW FRAME.
 4. REFER TO FINISH SCHEDULE FOR MATERIAL AND FINISH
 5. ALL LOWER LEVEL DOORS AND DOOR FRAMES TO BE PAINTED P-13

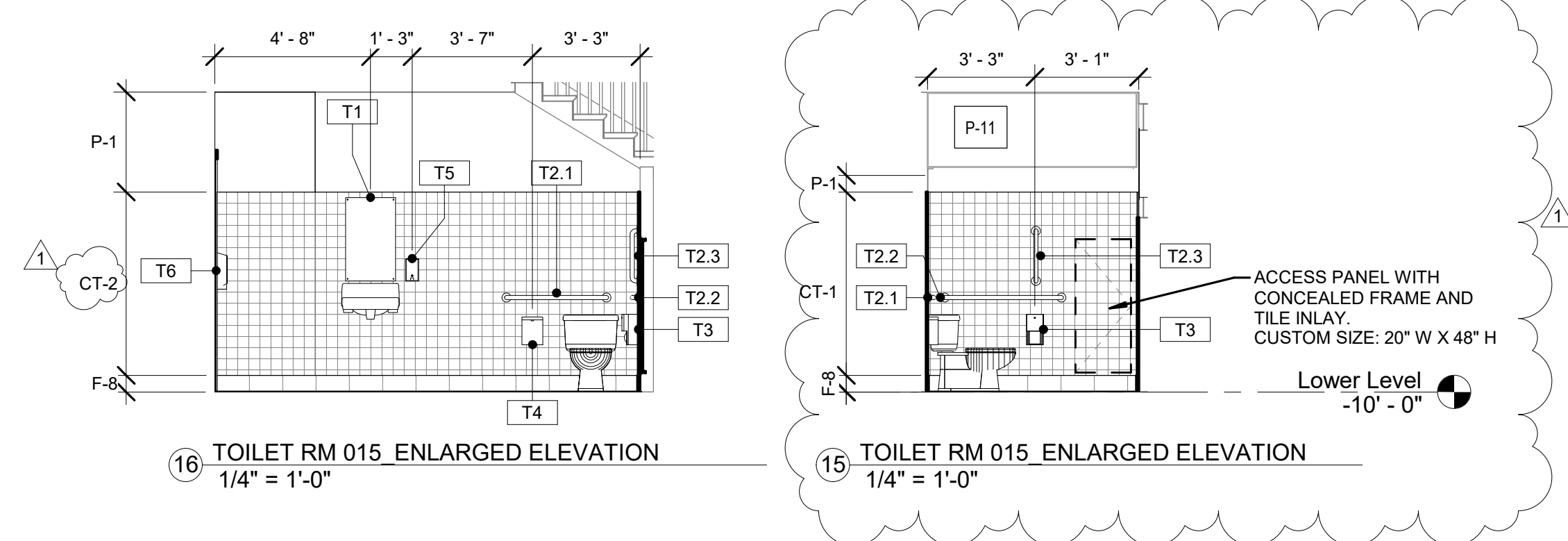
Type Mark	Item	Description	Manufacturer	Model	Comments
T1	Mirror	Frameless Polished Stainless Steel Mirror 24" x 36"	Bobrick	B-1556 2436	SS Mirror Frameless
T2.1	Grab Bar	36" L Straight Peened Grab Bar	Bobrick	B-6806x36.99	
T2.2	Grab Bar	42" L Straight Peened Grab Bar	Bobrick	B-6806x42.99	
T2.3	Grab Bar	18" L Straight Peened Grab Bar	Bobrick	B-6806x18.99	
T3	Toilet Paper Dispenser	Surface Mounted Multi-roll Toilet Tissue Dispenser - Contura Series	Bobrick	B-4288	
T4	Napkin Disposal	Surface Mounted Sanitary Napkin Disposal	Bobrick	B-270	Satin Finish
T5	Soap Dispenser	Surface Mounted Soap Dispenser	Bobrick	B-2111	
T6	Hand Dryer	Hand Dryer - High Speed Surface-Mounted ADA Compliant	Bradley Corporation	2923-287400	
T7	Diaper Changing Station	Fold down horizontal unit with child protection strap - Koala Kare KB102-01	Koala Kare	KB200-05SS	SS Satin Finish, exterior shell with rounded plastic corners
T8	Child Safety Seat	Child Protection Seat - Koala Kare KB102-01	Koala Kare	KB102-01	
T9.1	Toilet Stall	Floor mounted Toilet Partition system w/ stall doors and hardware including heavy-duty surface mounted coat hook	Scranton	Hiny hidrs	Color: Linen



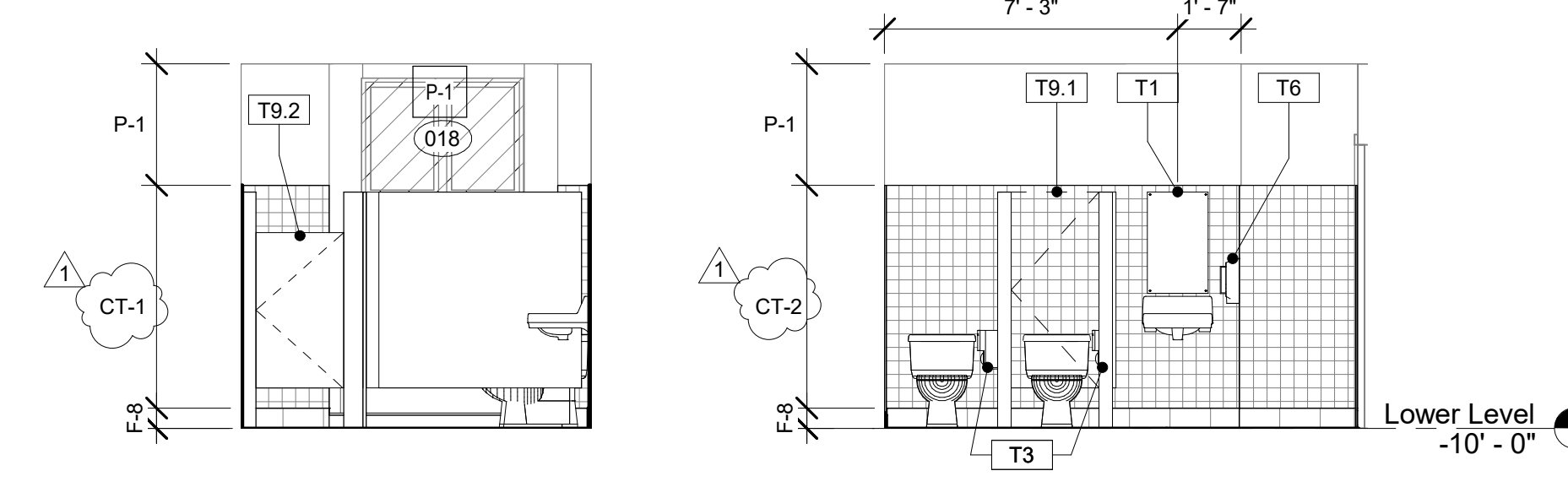
20 TOILET RM 103 ENLARGED ELEVATION 1/4" = 1'-0"
 12 TOILET RM 103 ENLARGED ELEVATION 1/4" = 1'-0"
 11 TOILET RM 103 ENLARGED ELEVATION 1/4" = 1'-0"
 10 TOILET RM 103 ENLARGED ELEVATION 1/4" = 1'-0"



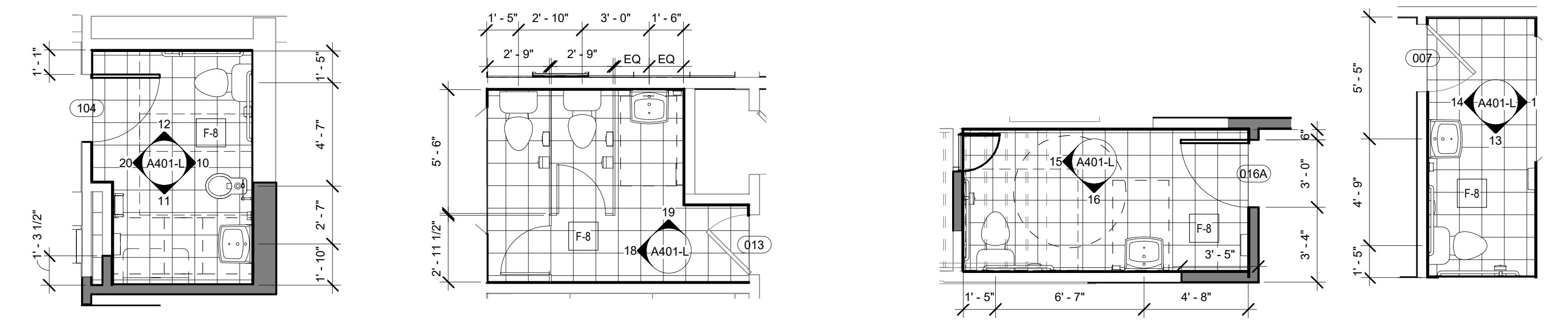
1 TOILET RM 007 ENLARGED ELEVATION 1/4" = 1'-0"
 14 TOILET RM 007 ENLARGED ELEVATION 1/4" = 1'-0"
 13 TOILET RM 007 ENLARGED ELEVATION 1/4" = 1'-0"



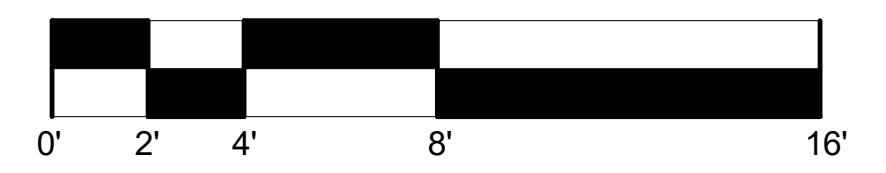
16 TOILET RM 015 ENLARGED ELEVATION 1/4" = 1'-0"
 15 TOILET RM 015 ENLARGED ELEVATION 1/4" = 1'-0"



18 TOILET RM 012 ENLARGED ELEVATION 1/4" = 1'-0"
 19 TOILET RM 012 ENLARGED ELEVATION 1/4" = 1'-0"



4 TOILET RM 103 ENLARGED PLAN 1/4" = 1'-0"
 17 TOILET RM 012 ENLARGED PLAN 1/4" = 1'-0"
 2 TOILET RM 015 ENLARGED PLAN 1/4" = 1'-0"
 3 TOILET RM 007 ENLARGED PLAN 1/4" = 1'-0"



STAMP AREA

REVISIONS

ISSUE	DATE	DESCRIPTION
0	09/07/22	ISSUE FOR BID
1	09/26/22	ISSUE FOR BID



REVIEWED BY:
 PROJECT COORDINATOR:
 SEALS:



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 1900 Market Street Suite 300
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LEED CONSULTANT:
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 1635 Market Street Suite 1600
 Philadelphia PA 19103

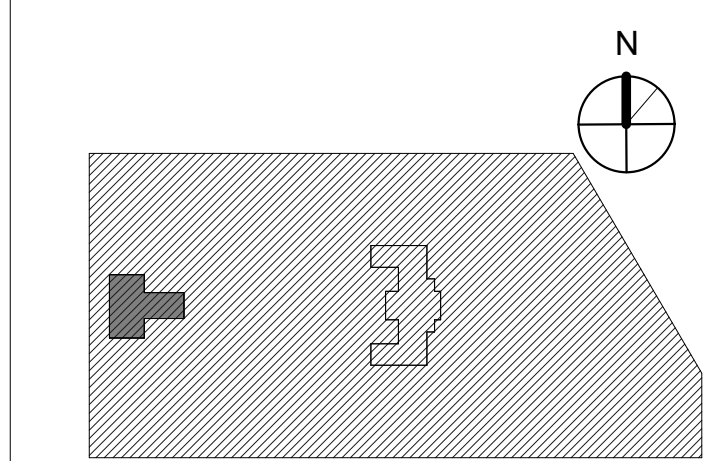


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 1901 VINE ST
 PHILADELPHIA, PA 19103

PHILADELPHIA PENNSYLVANIA

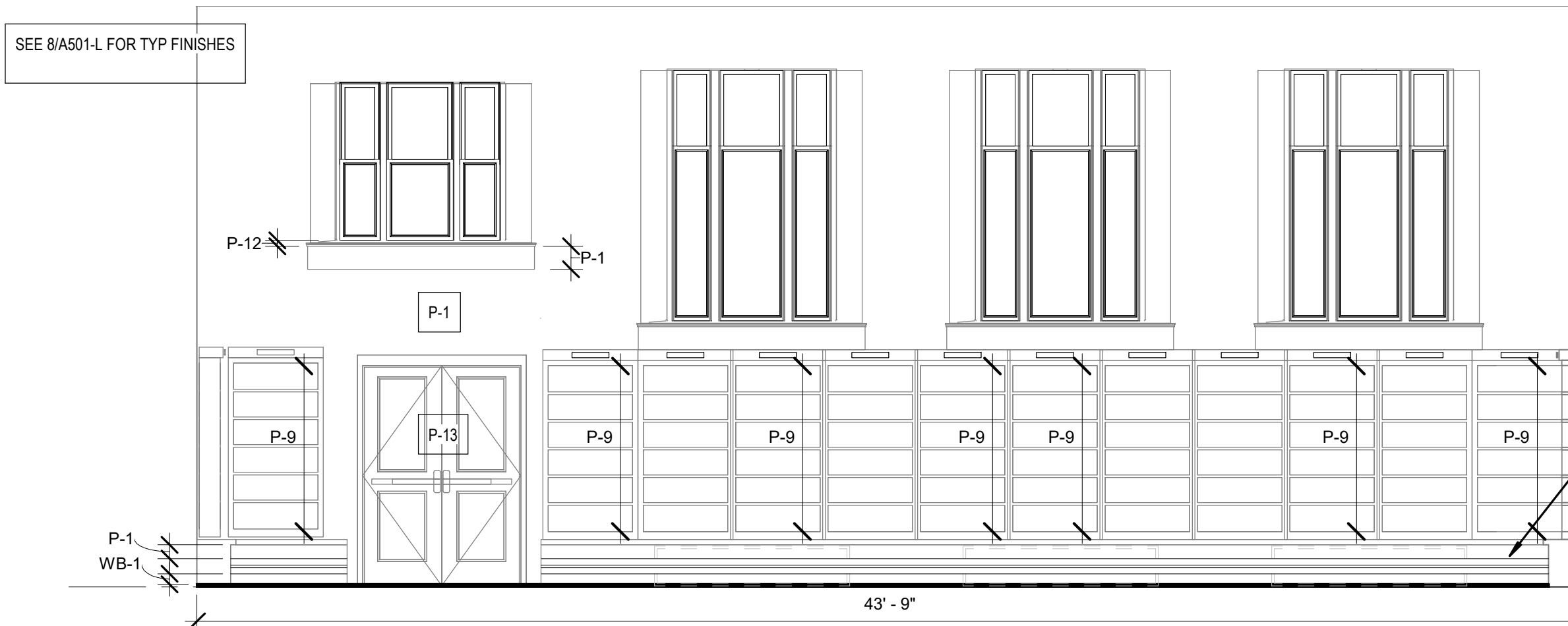
KINGSESSING LIBRARY BUILDING RENOVATIONS AND SITE IMPROVEMENTS

KEY PLAN

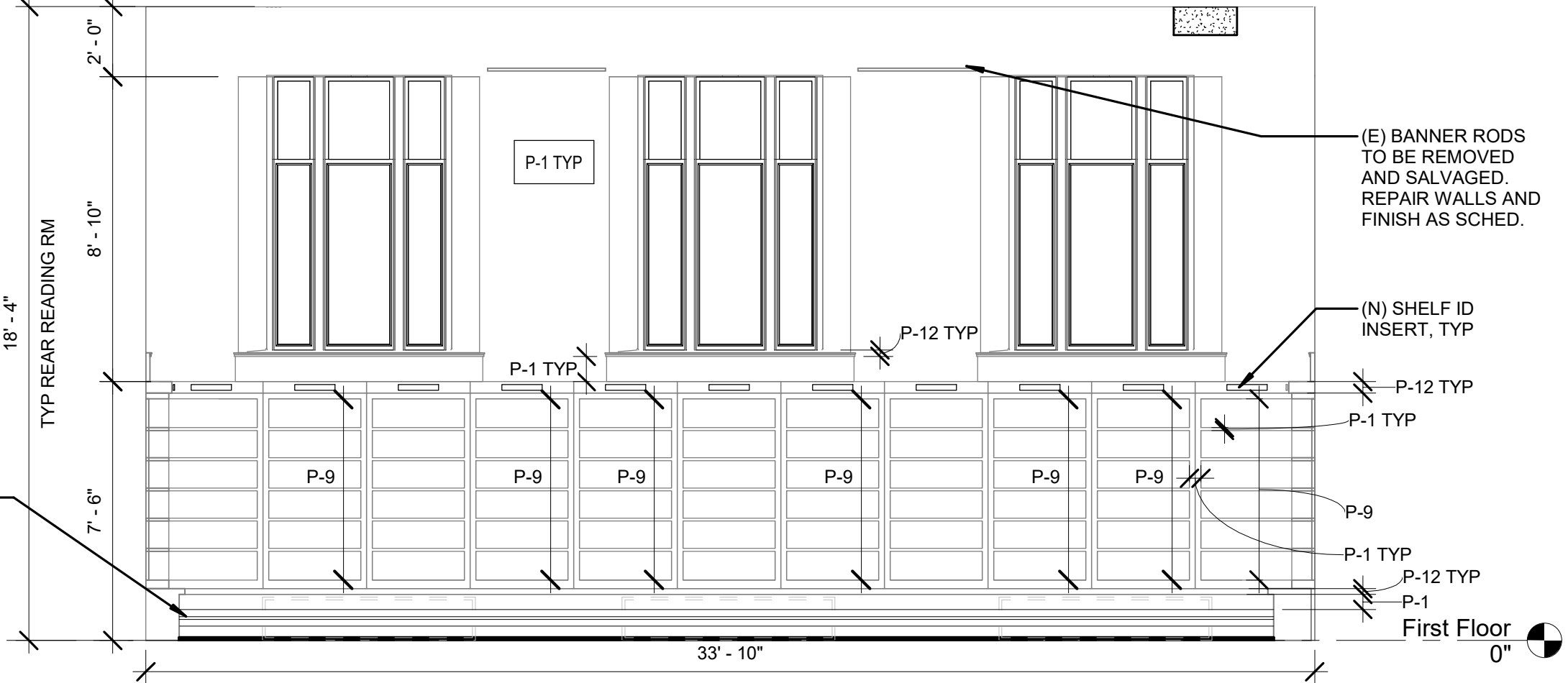


ENLARGED PLANS - TOILET ROOMS BASE SCOPE

PROJECT NO. 21070	DRAWING NO. A401-L
DATE 9/7/22	
SCALE As indicated	
DRAWN BY A.F.	
CHECKED BY D.B.	
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.	



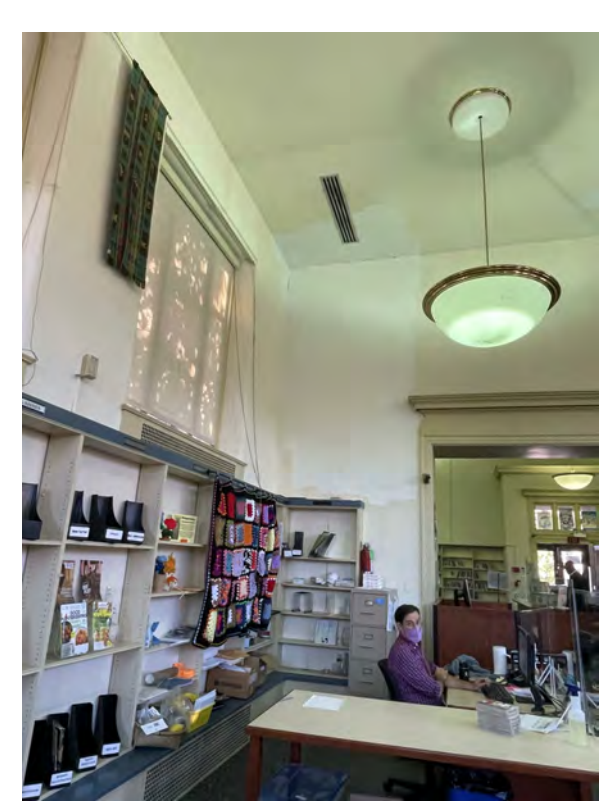
9 INT ELEVATION - REAR READING RM NORTH WALL
1/4" = 1'-0"



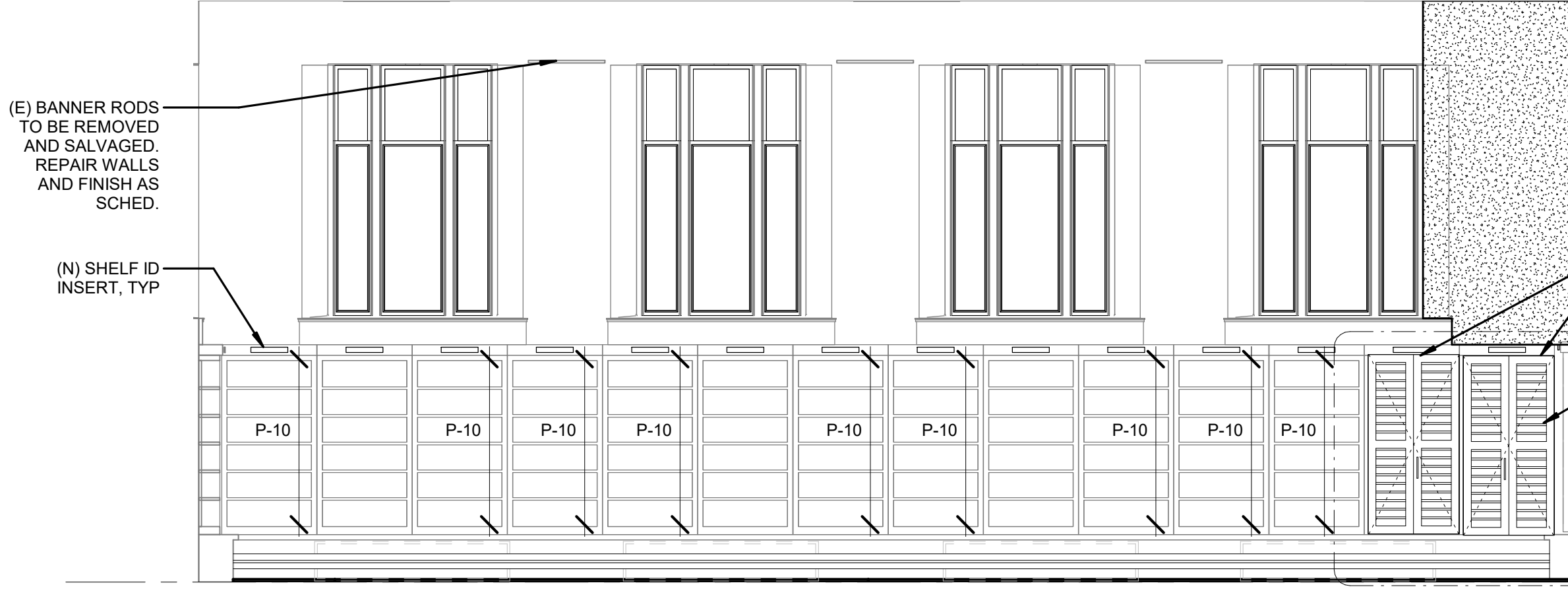
8 INT ELEVATION - REAR READING RM WEST WALL
1/4" = 1'-0"



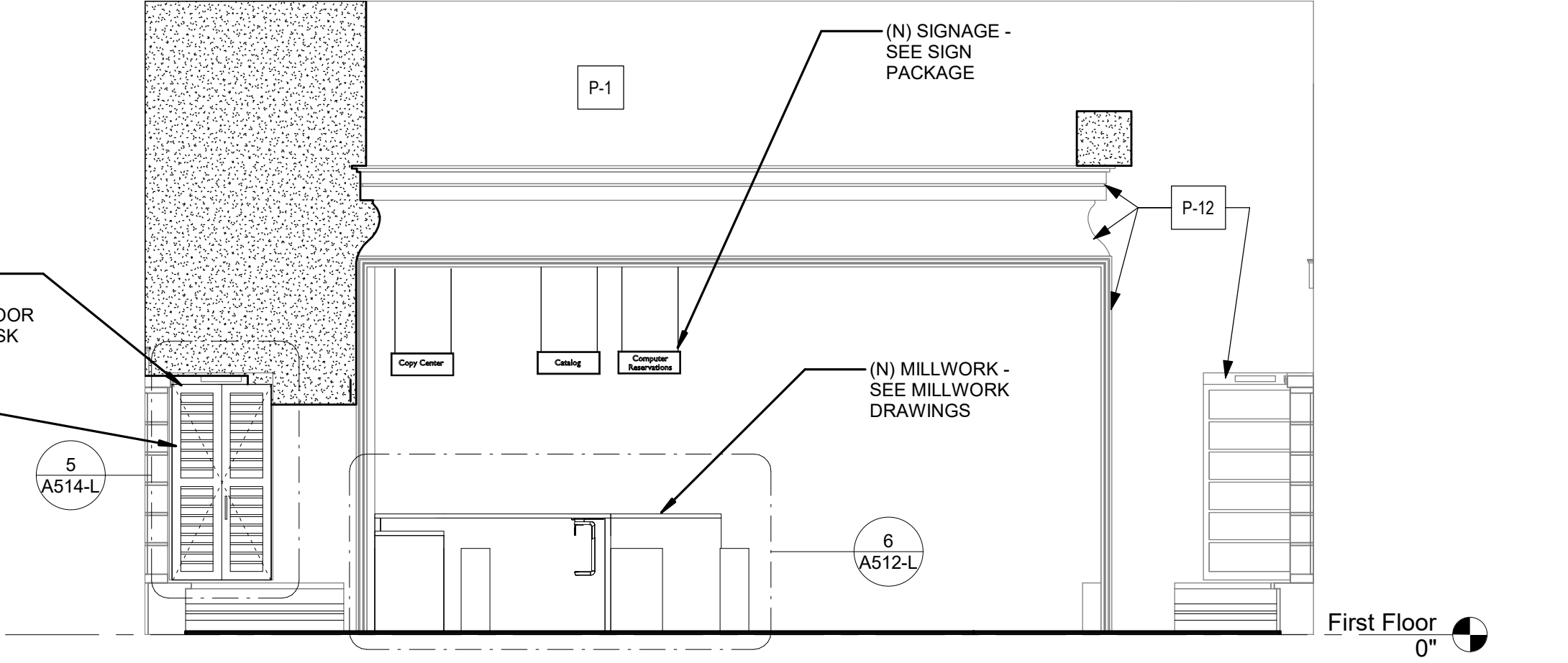
11 INT PLASTER REPAIR



12 INT PLASTER REPAIR



7 INT ELEVATION - REAR READING RM SOUTH WALL
1/4" = 1'-0"

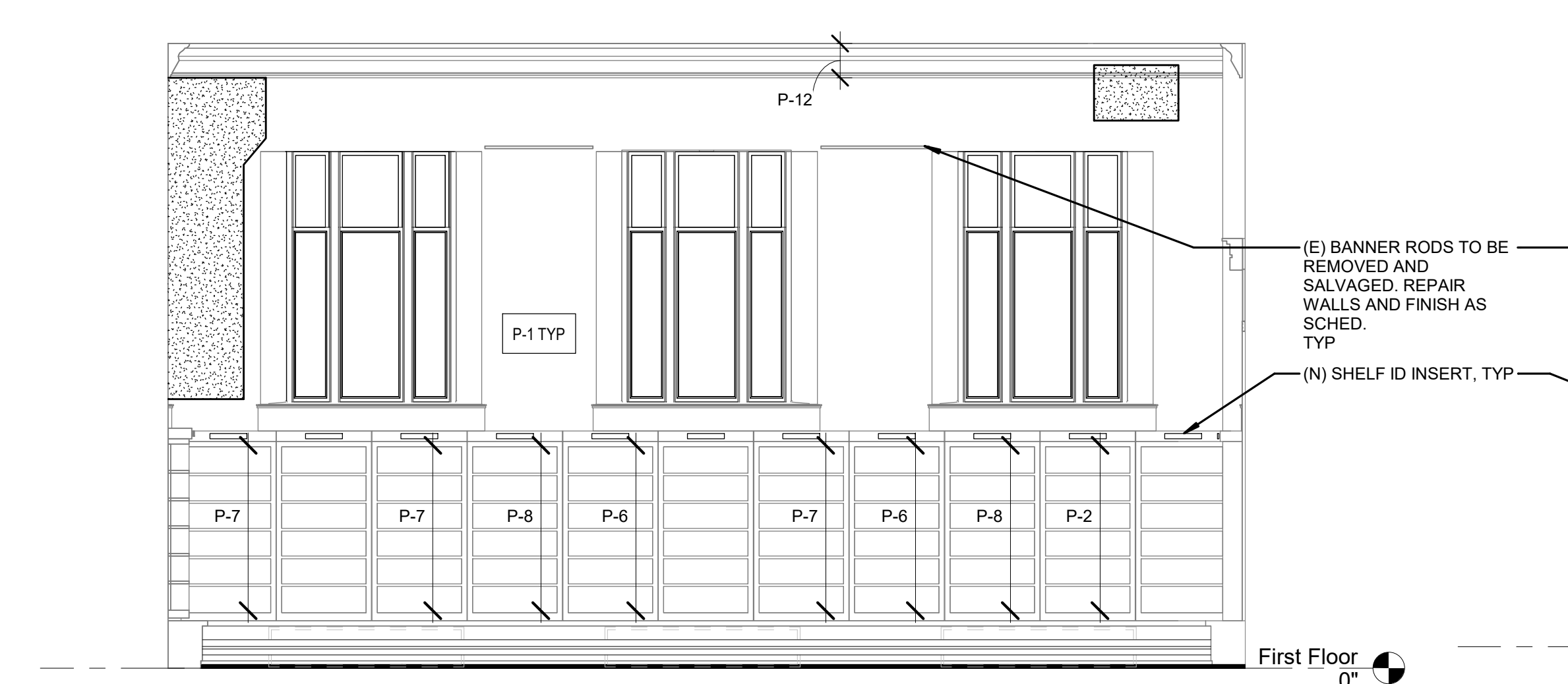


6 INT ELEVATION - REAR READING RM EAST WALL
1/4" = 1'-0"

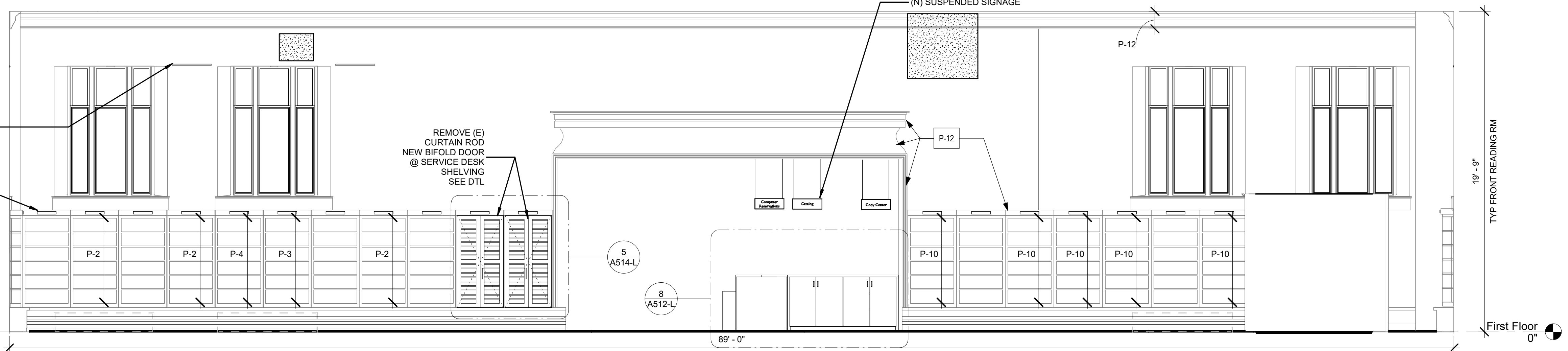
LEGEND

- Areas of plaster repair approx. 254 square feet
- (E) Grilles to be removed and salvaged. Base to be infilled - TYP ALL ELEVATIONS
- (N) Radiator - See details 14A512-L & 15A512-L

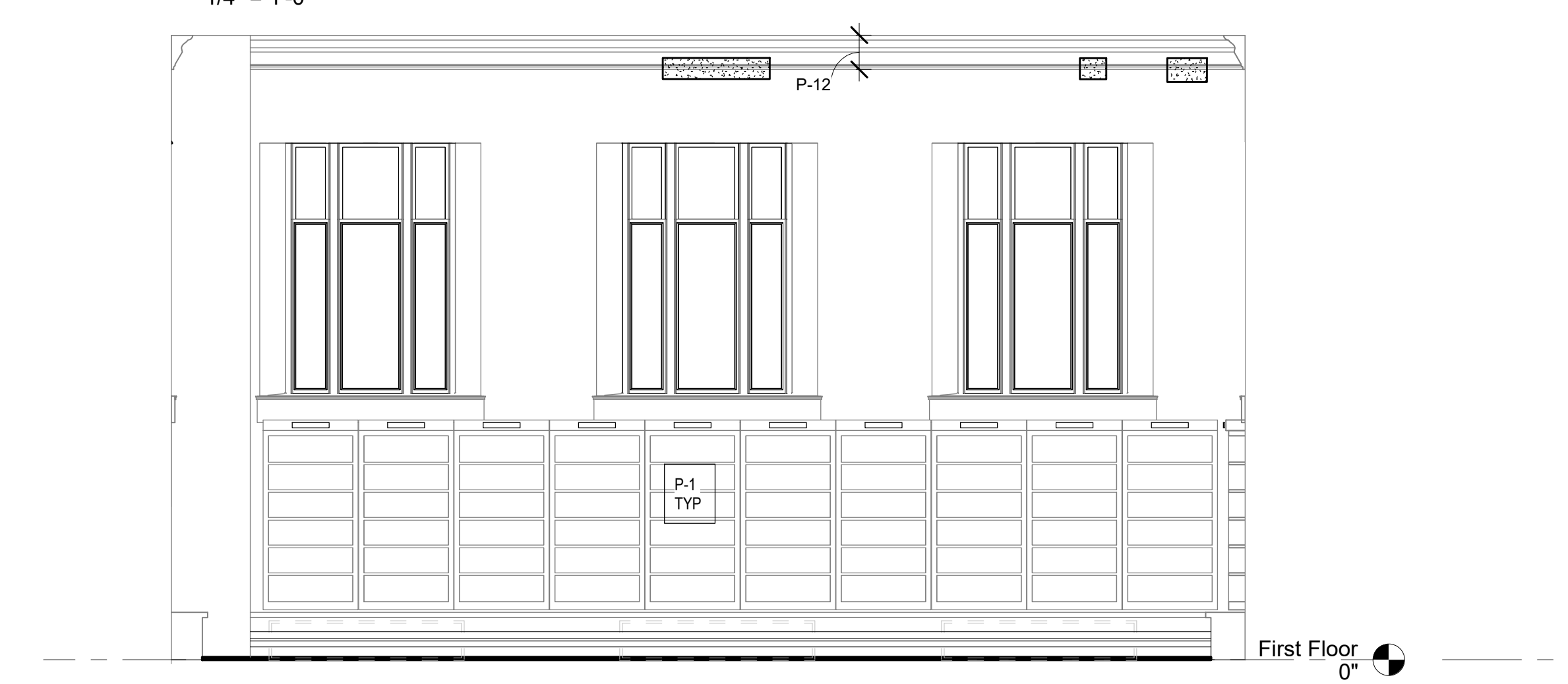
NOTE: SHELF REAR WALLS ARE PAINTED P-1 UNLESS OTHERWISE NOTED ON ELEVATIONS



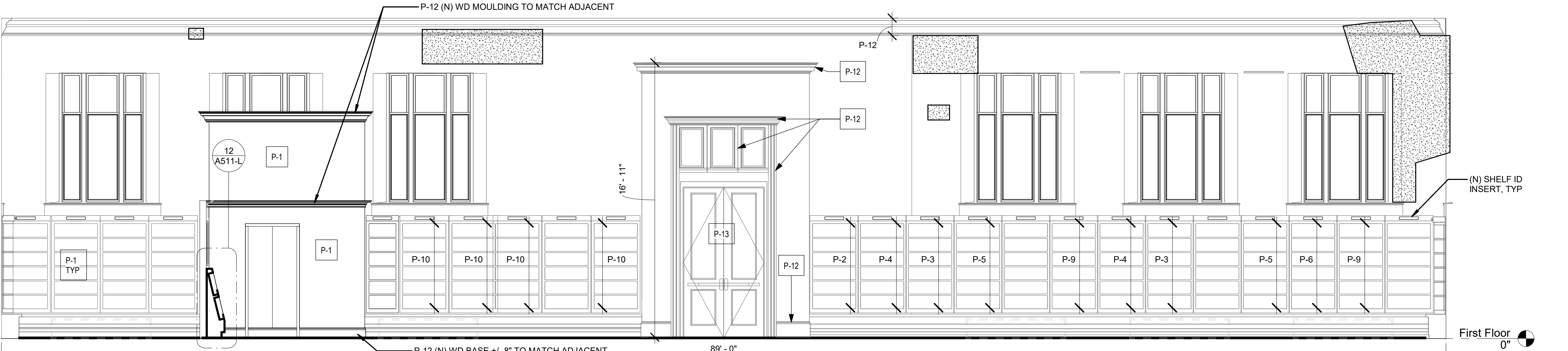
5 INT ELEVATION - FRONT READING RM NORTH WALL 1ST FL
1/4" = 1'-0"



4 INT ELEVATION - FRONT READING RM WEST WALL
1/4" = 1'-0"

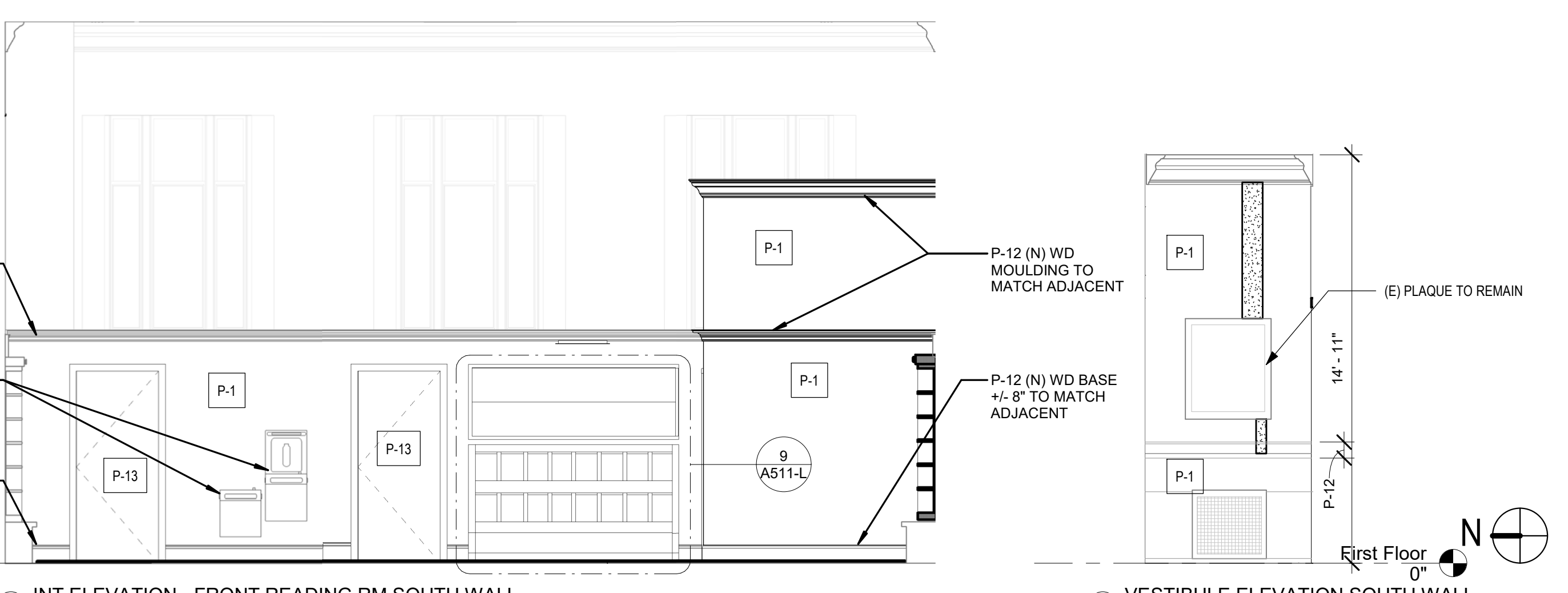


3 INT ELEVATION - STAFF OFFICE 1ST FLOOR SOUTH WALL
1/4" = 1'-0"

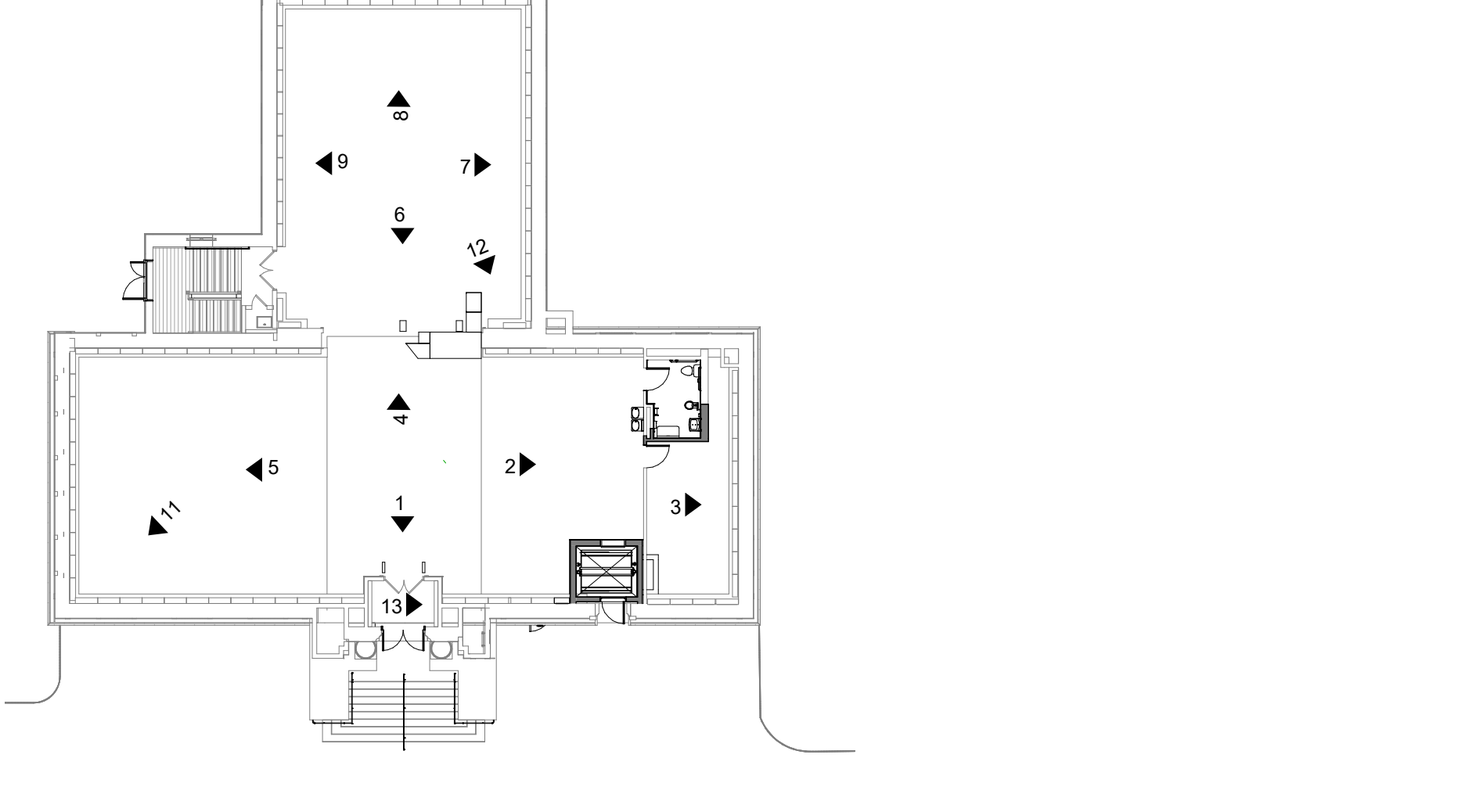


1 INT ELEVATION - FRONT READING RM EAST WALL 1ST FL
1/4" = 1'-0"

STAMP AREA



2 INT ELEVATION - FRONT READING RM SOUTH WALL
1/4" = 1'-0"



13 VESTIBULE ELEVATION SOUTH WALL
1/4" = 1'-0"

REVISIONS		
ISSUE	DATE	DESCRIPTION
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1	09/26/22	ISSUE FOR BID



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SEALS:



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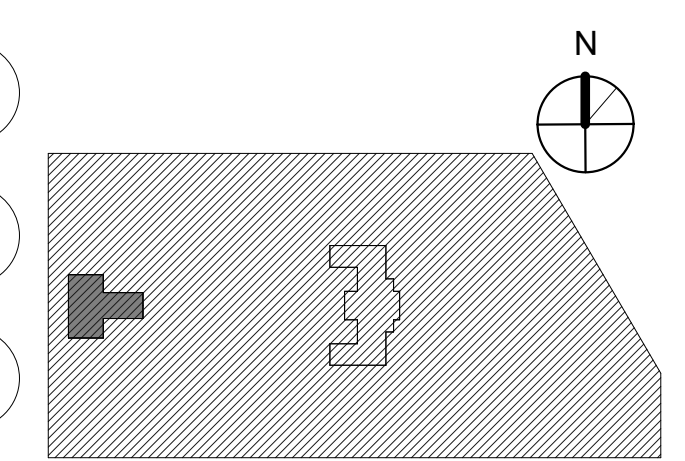
LEED CONSULTANT:
Verde Architecture Consulting
1635 Market Street Suite 1600
Philadelphia PA 19103



CITY OF PHILADELPHIA
FREE LIBRARY OF PHILADELPHIA
1901 VINE ST
PHILADELPHIA, PA 19103

PHILADELPHIA PENNSYLVANIA
PROJECT TITLE
**KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS**

KEY PLAN



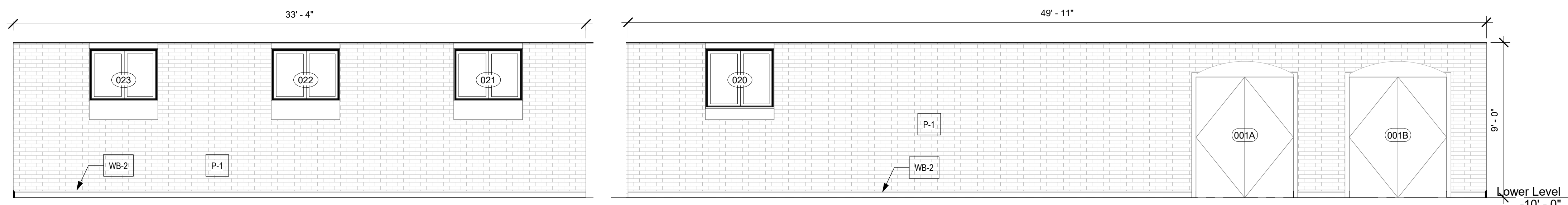
DRAWING TITLE
INTERIOR ELEVATIONS

PROJECT NO. **21070** DRAWING NO.

DATE 9/7/22
SCALE As indicated
DRAWN BY A.F.
CHECKED BY D.B.

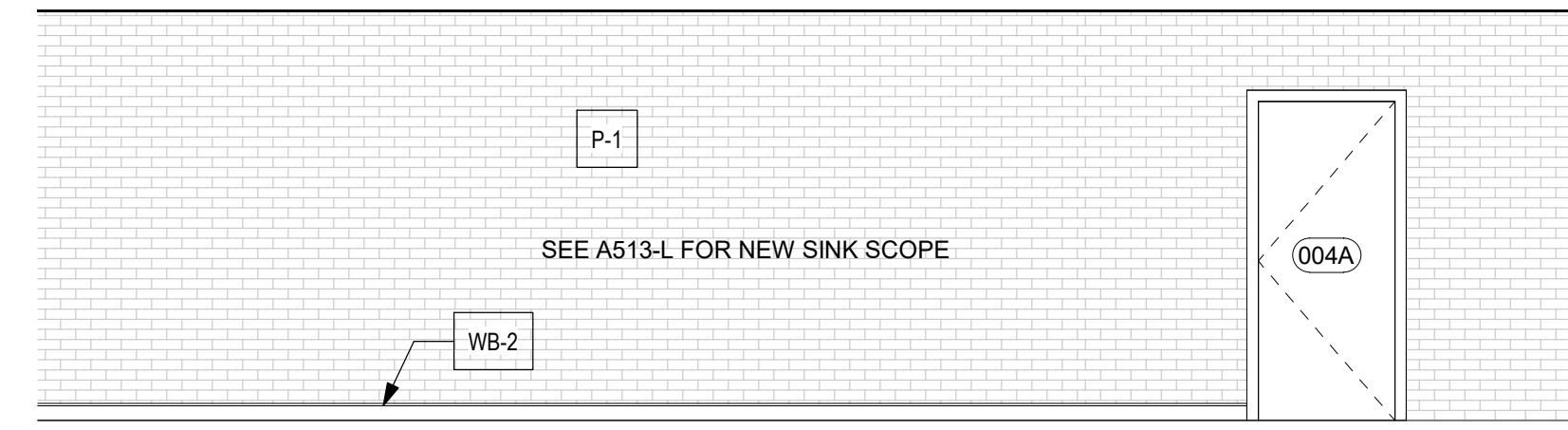
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

A501-L

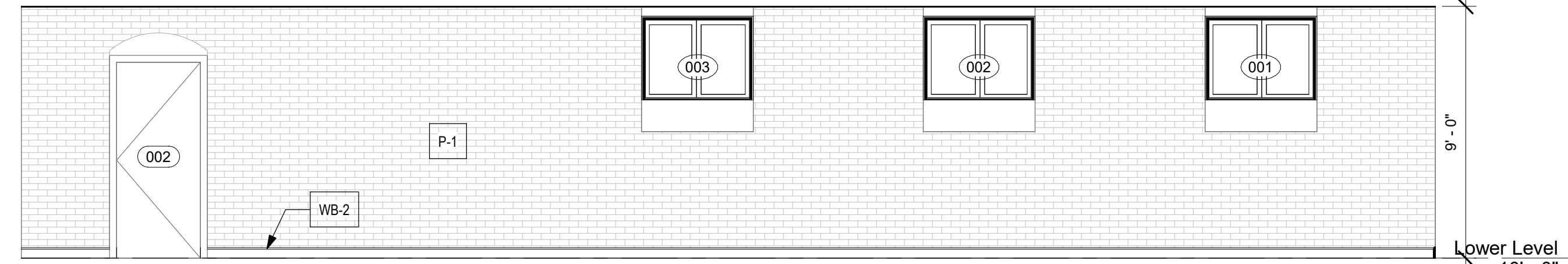


23 MEETING ROOM 001 - N ELEVATION
1/4" = 1'-0"

22 MEETING ROOM 001 - E ELEVATION
1/4" = 1'-0"



21 MEETING ROOM 001 - S ELEVATION
1/4" = 1'-0"



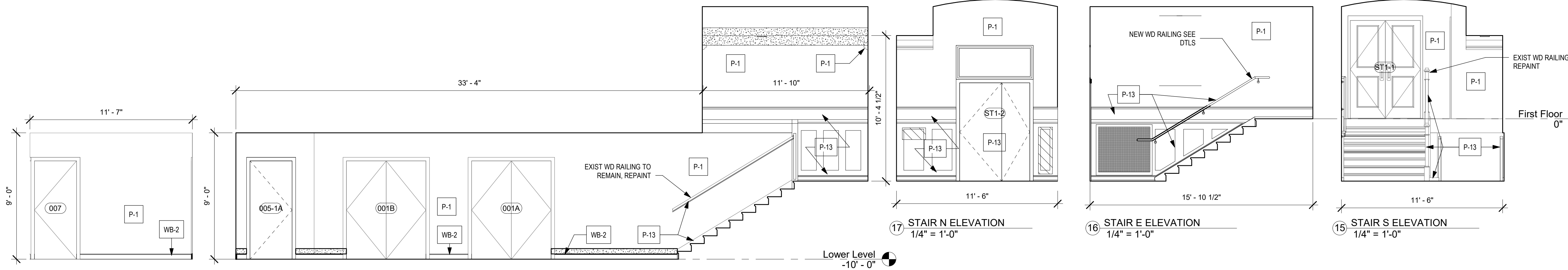
20 MEETING ROOM 001 - W ELEVATION
1/4" = 1'-0"

- LEGEND**
- AREAS OF PLASTER REPAIR APPROX. 254 SQUARE FEET
 - (E) GRILLES TO BE REMOVED AND SALVAGED, BASE TO BE INFILLED - TYP ALL ELEVATIONS
 - (N) RADIATOR - SEE DETAILS 14/A512-L & 15/A512-L



25 INT REPAIR
12" = 1'-0"

- GENERAL NOTES:**
1. REMOVE EXISTING PAINT FINISH FROM INTERIOR SURFACES, ALLOW FOR DESIGN PROFESSIONAL INSPECTION, AND THEN PAINT
 2. REMOVE VINYL BASE, CLEAN AND REPAIR SUBSURFACE, ALLOW FOR DESIGN PROFESSIONAL INSPECTION, INSTALL NEW BASE AS SCHED
 3. FOR INFILLED WINDOWS TO REMAIN: REMOVE EXISTING PAINT FINISH FROM WINDOW SURROUND SURFACES, REPAIR, SCRAPE AND REPAIR WOOD WINDOW FRAME
 4. REPAIR/REPLACE EXISTING WAINSCOTING - 3 PANELS NEED REPLACED/REPAIRED. SCRAPE AND REPAIR.
 5. REPLACE (E) WD RAILING AS INDICATED - SEE DTLS A51-L
 6. REFER TO FINISH SCHEDULE FOR MATERIAL AND FINISH
 7. ALL LOWER LEVEL DOORS AND DOOR FRAMES TO BE PAINTED P-13



19 CORRIDOR 006 - S ELEVATION
1/4" = 1'-0"

18 CORRIDOR 006/STAIR - W ELEVATION
1/4" = 1'-0"

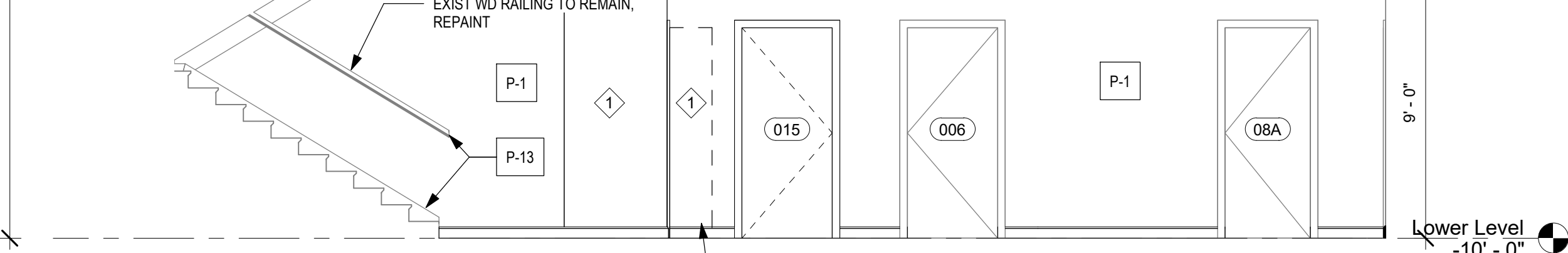
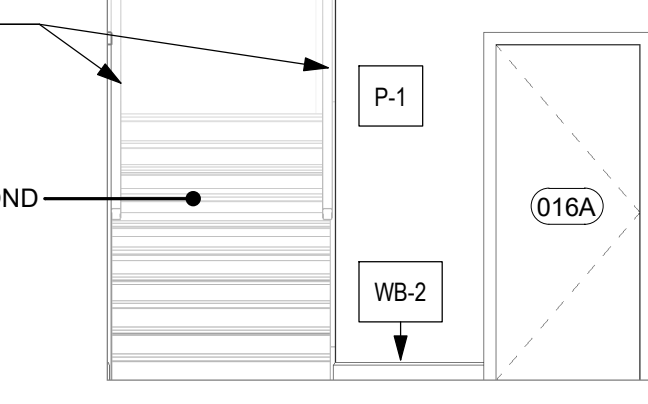
17 STAIR N ELEVATION
1/4" = 1'-0"

16 STAIR E ELEVATION
1/4" = 1'-0"

15 STAIR S ELEVATION
1/4" = 1'-0"

14 CORRIDOR 006 - N ELEVATION
1/4" = 1'-0"

13 CORRIDOR 006 - E ELEVATION
1/4" = 1'-0"

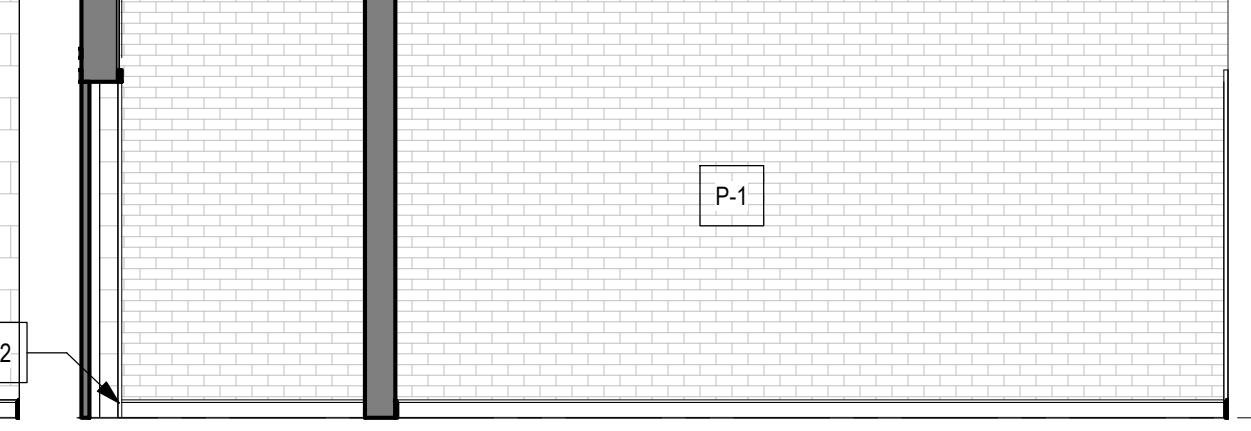
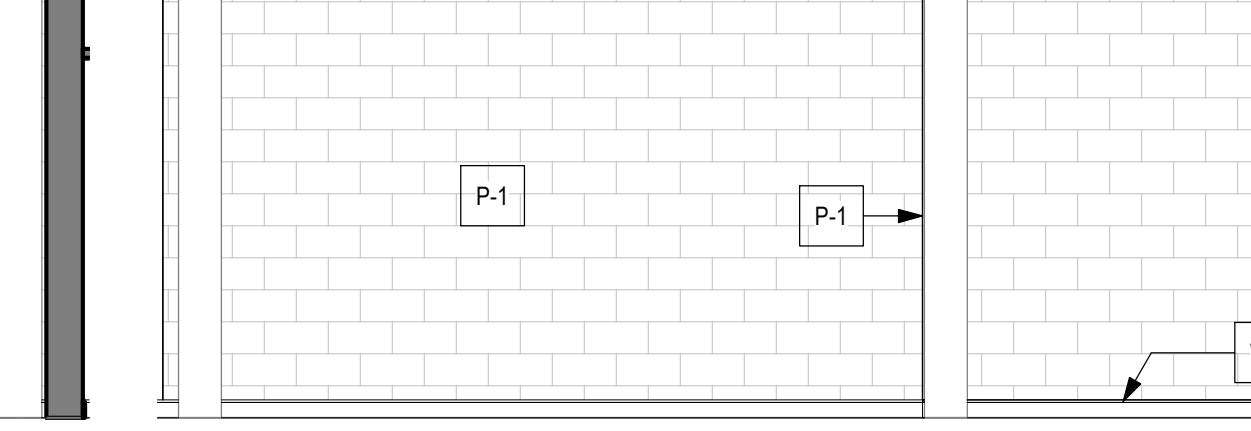
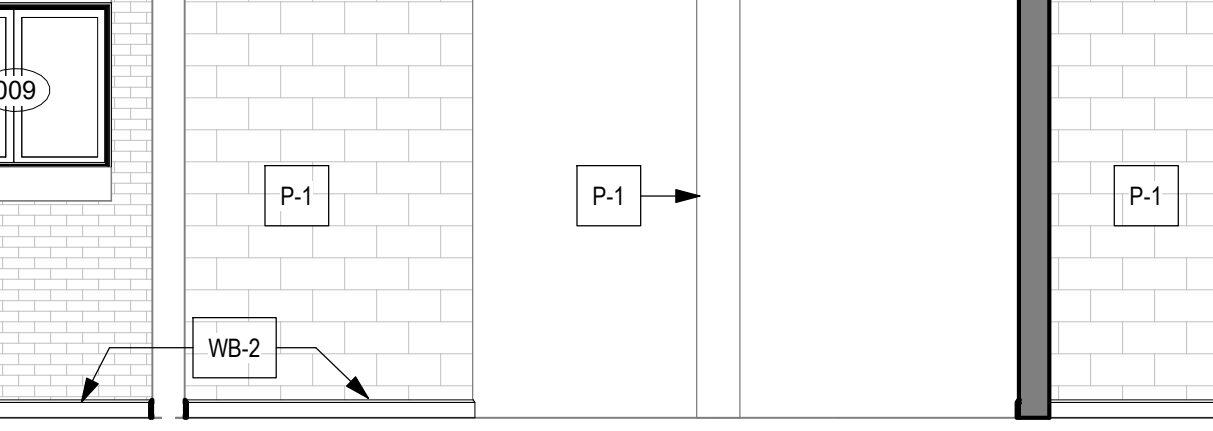
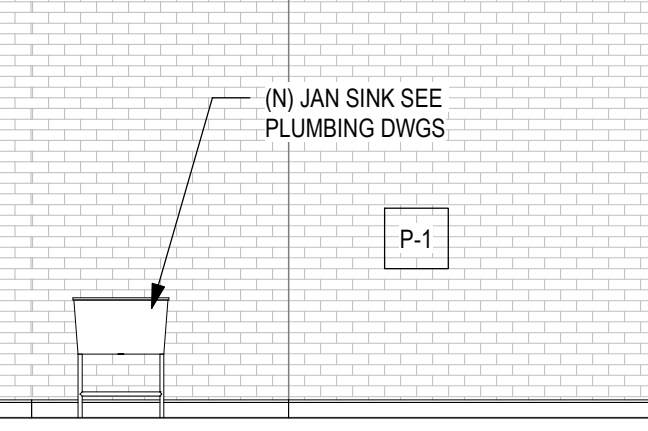


12 BOILER ROOM 005-1 - E ELEVATION
1/4" = 1'-0"

11 BOILER ROOM 005-1 - S ELEVATION
1/4" = 1'-0"

10 BOILER ROOM 005-1 - W ELEVATION
1/4" = 1'-0"

9 BOILER ROOM 005-1 - N ELEVATION
1/4" = 1'-0"

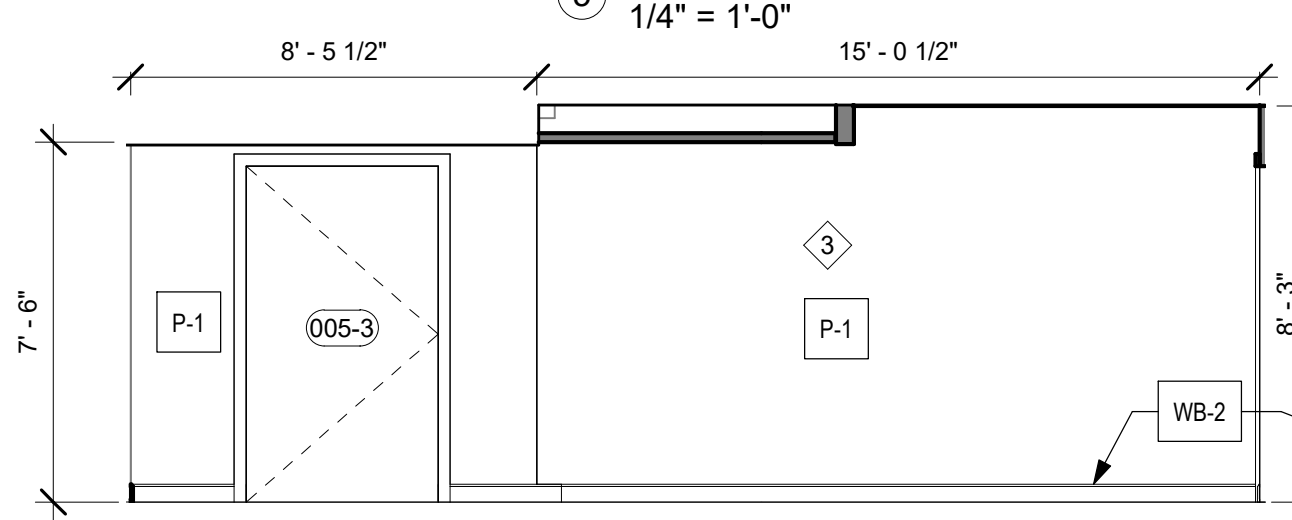
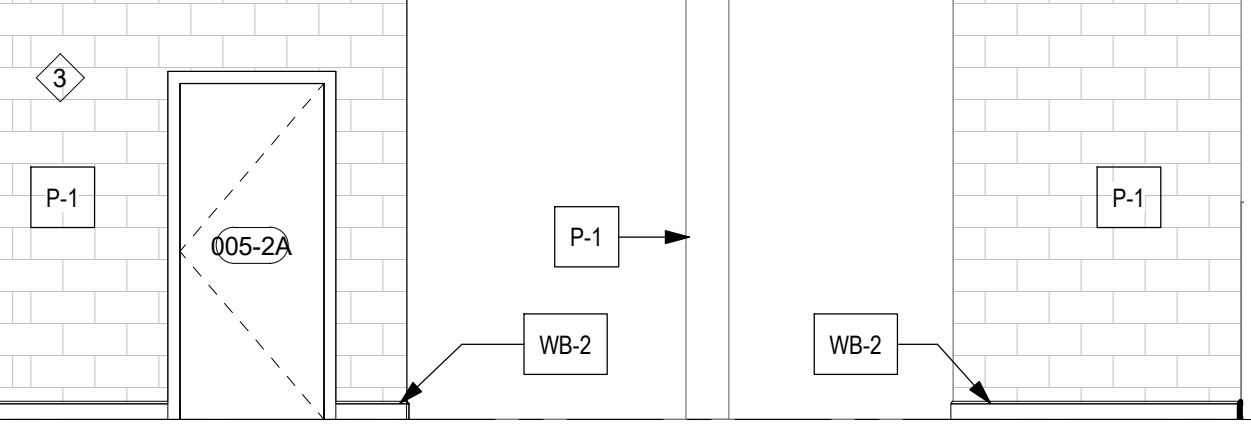
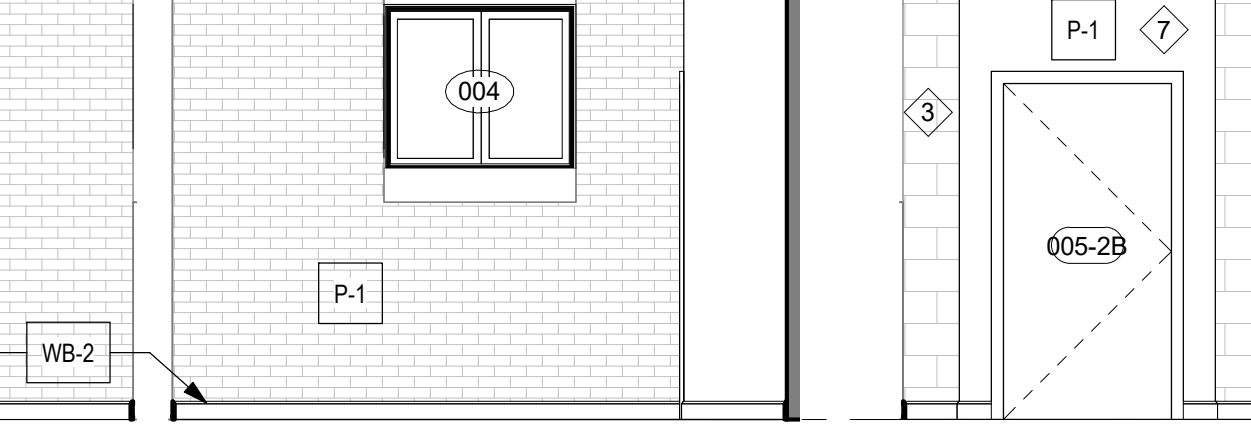
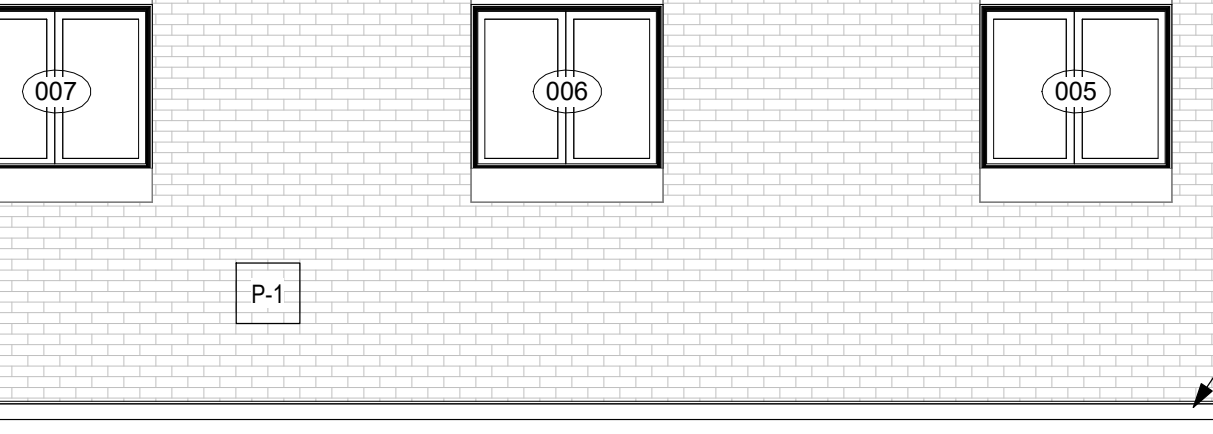
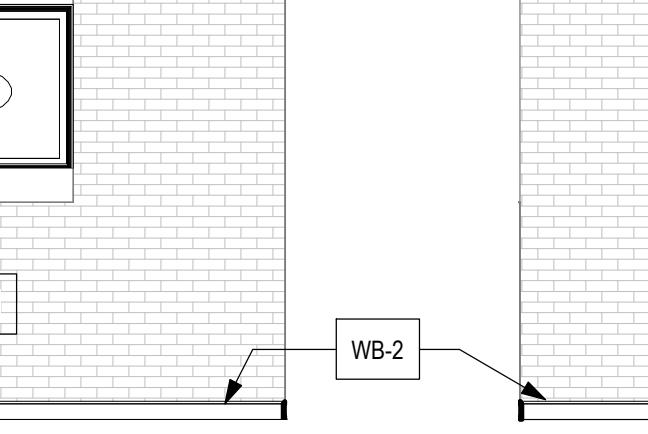


8 ELECTRIC ROOM 005-2 - E ELEVATION
1/4" = 1'-0"

7 ELECTRIC ROOM 005-2 - S ELEVATION
1/4" = 1'-0"

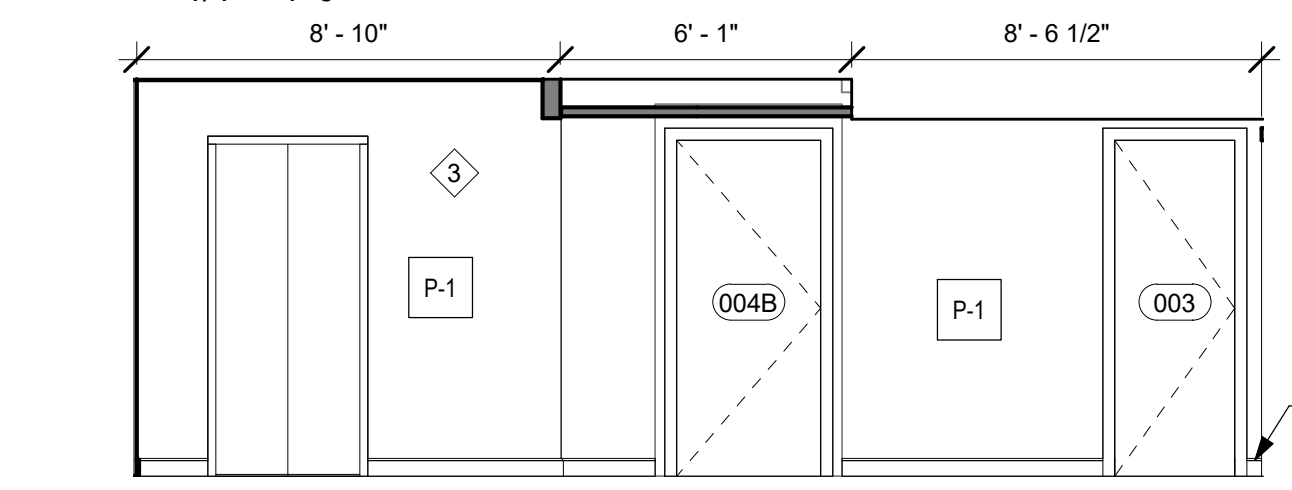
6 ELECTRIC ROOM 005-2 - W ELEVATION
1/4" = 1'-0"

5 ELECTRIC ROOM 005-2 - N ELEVATION
1/4" = 1'-0"

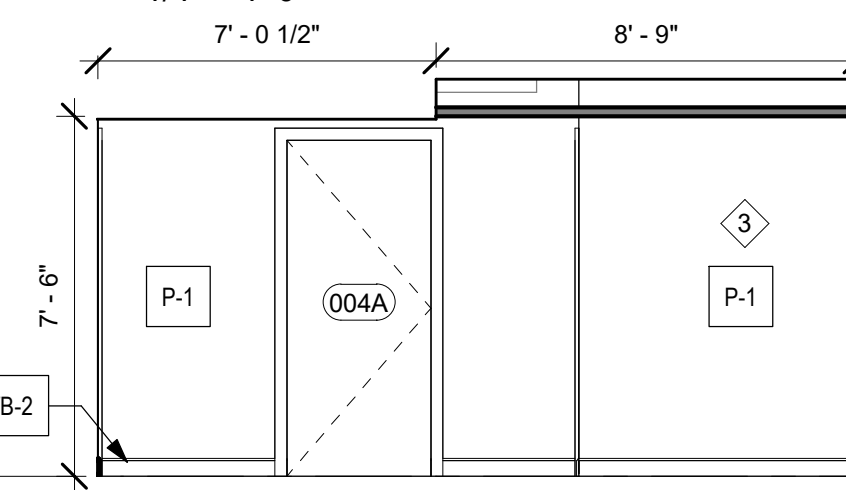


4 VESTIBULE 004 - E ELEVATION
1/4" = 1'-0"

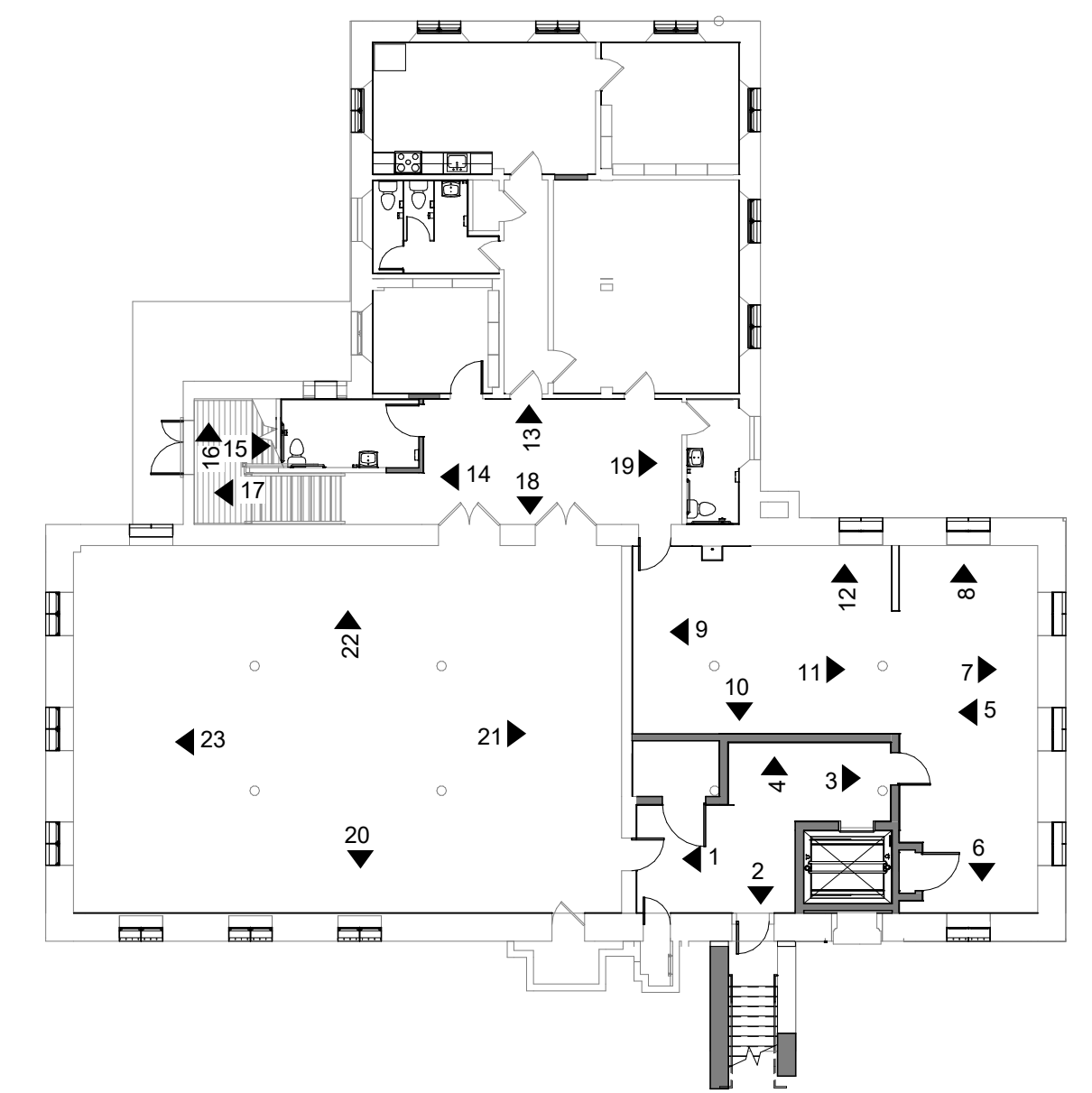
3 VESTIBULE 004 - S ELEVATION
1/4" = 1'-0"



2 VESTIBULE 004 - W ELEVATION
1/4" = 1'-0"



1 VESTIBULE 004 - N ELEVATION
1/4" = 1'-0"



24 LOWER LEVEL KEY PLAN NEW
1/16" = 1'-0"

STAMP AREA

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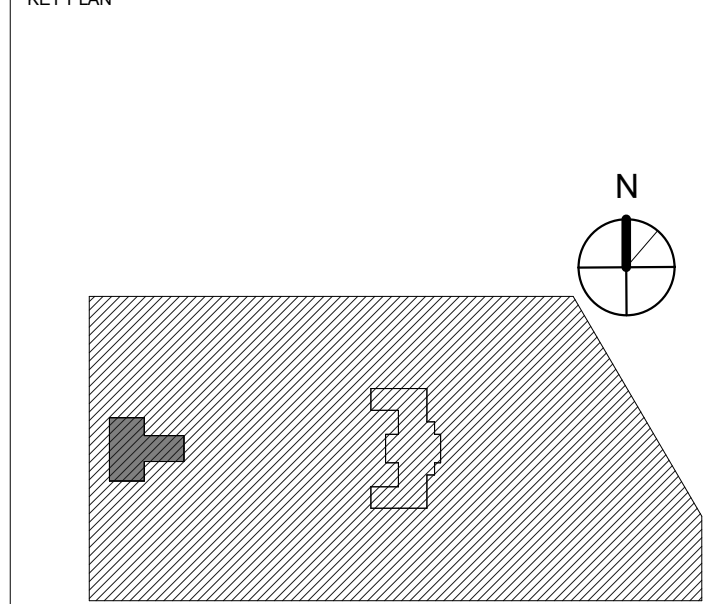
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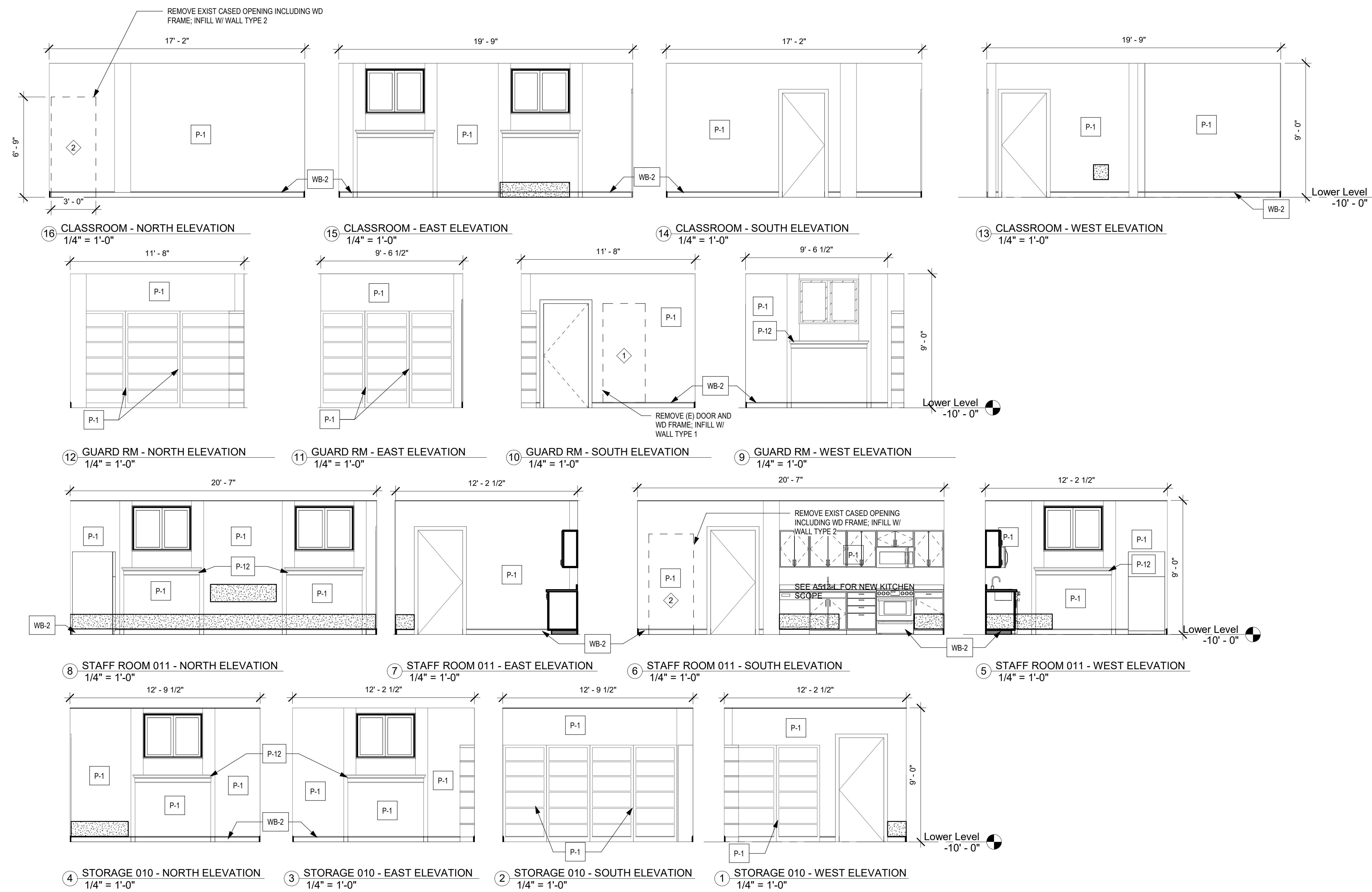
PHILADELPHIA PENNSYLVANIA
PROJECT TITLE
**KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS**



INTERIOR ELEVATIONS

PROJECT NO. 21070	DRAWING NO.
DATE 9/7/22	A502-L
SCALE As Indicated	
DRAWN BY A.F.	
CHECKED BY D.B.	

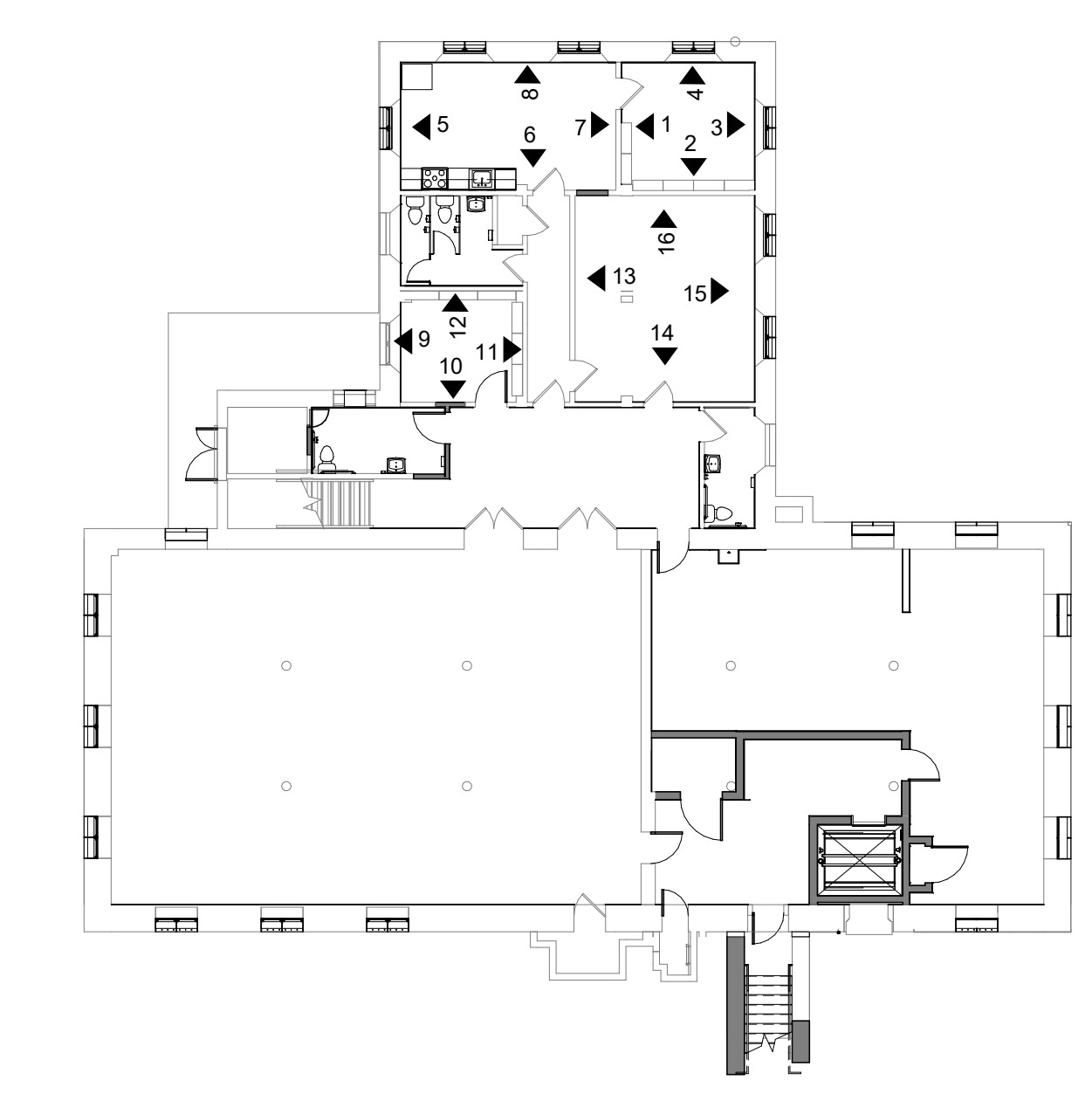
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LEGEND

- [Patterned Box] AREAS OF PLASTER REPAIR APPROX. 254 SQUARE FEET
- [Dashed Box] (E) GRILLES TO BE REMOVED AND SALVAGED, BASE TO BE INFILLED - TYP ALL ELEVATIONS
- [Line with Dash] (N) RADIATOR - SEE DETAILS 14A512-L & 15A512-L

- GENERAL NOTES:**
- REMOVE EXISTING PAINT FINISH FROM INTERIOR SURFACES, ALLOW FOR DESIGN PROFESSIONAL INSPECTION, AND THEN PAINT
 - REMOVE VINYL BASE, CLEAN AND REPAIR SUBSURFACE, ALLOW FOR DESIGN PROFESSIONAL INSPECTION, INSTALL NEW BASE AS SCHED
 - FOR INFILLED WINDOWS TO REMAIN: REMOVE EXISTING PAINT FINISH FROM WINDOW SURROUND SURFACES, REPAIR, SCRAPE AND REPAINT WOOD WINDOW FRAME
 - REPAIR/REPLACE EXISTING WAINSCOTING - 3 PANELS NEED REPLACED/REPAIRED. SCRAPE AND REPAIR.
 - REPLACE (E) WD RAILING AS INDICATED - SEE DTLS A51-L
 - REFER TO FINISH SCHEDULE FOR MATERIAL AND FINISH
 - ALL LOWER LEVEL DOORS AND DOOR FRAMES TO BE PAINTED P-13



REVISIONS

ISSUE	DATE	DESCRIPTION
0	09/07/22	ISSUE FOR BID
1	09/26/22	ISSUE FOR BID



REVIEWED BY:
PROJECT COORDINATOR:
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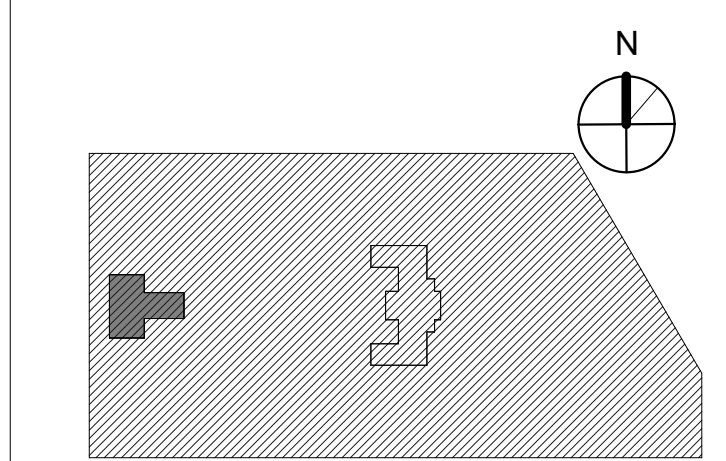
LEED CONSULTANT:
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PHILADELPHIA PENNSYLVANIA
PROJECT TITLE
KINGSESSING LIBRARY BUILDING RENOVATIONS AND SITE IMPROVEMENTS

KEY PLAN



DRAWING TITLE
INTERIOR ELEVATIONS

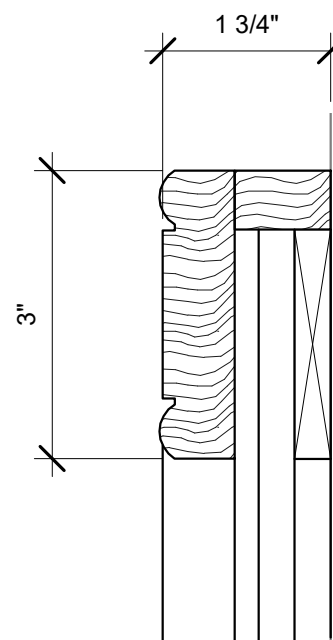
PROJECT NO. 21070	DRAWING NO.
DATE 9/7/22	A503-L
SCALE As indicated	
DRAWN BY A.F.	
CHECKED BY D.B.	

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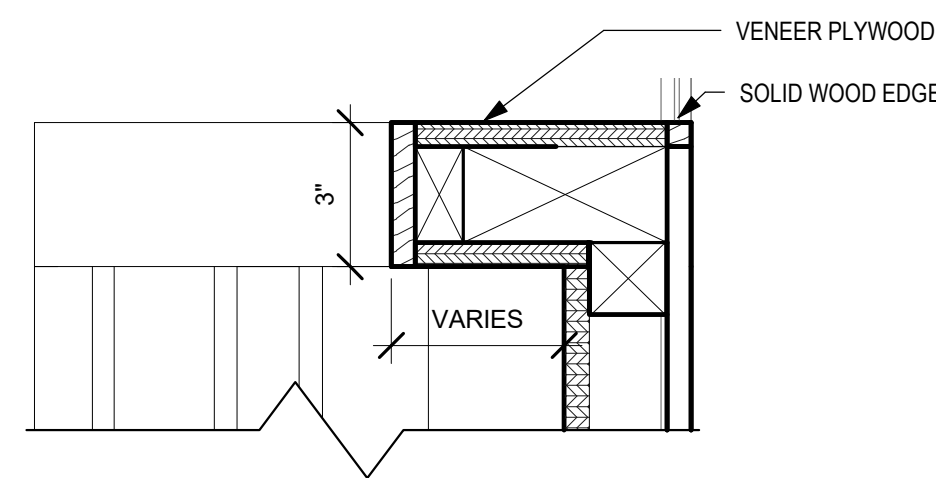
STAMP AREA



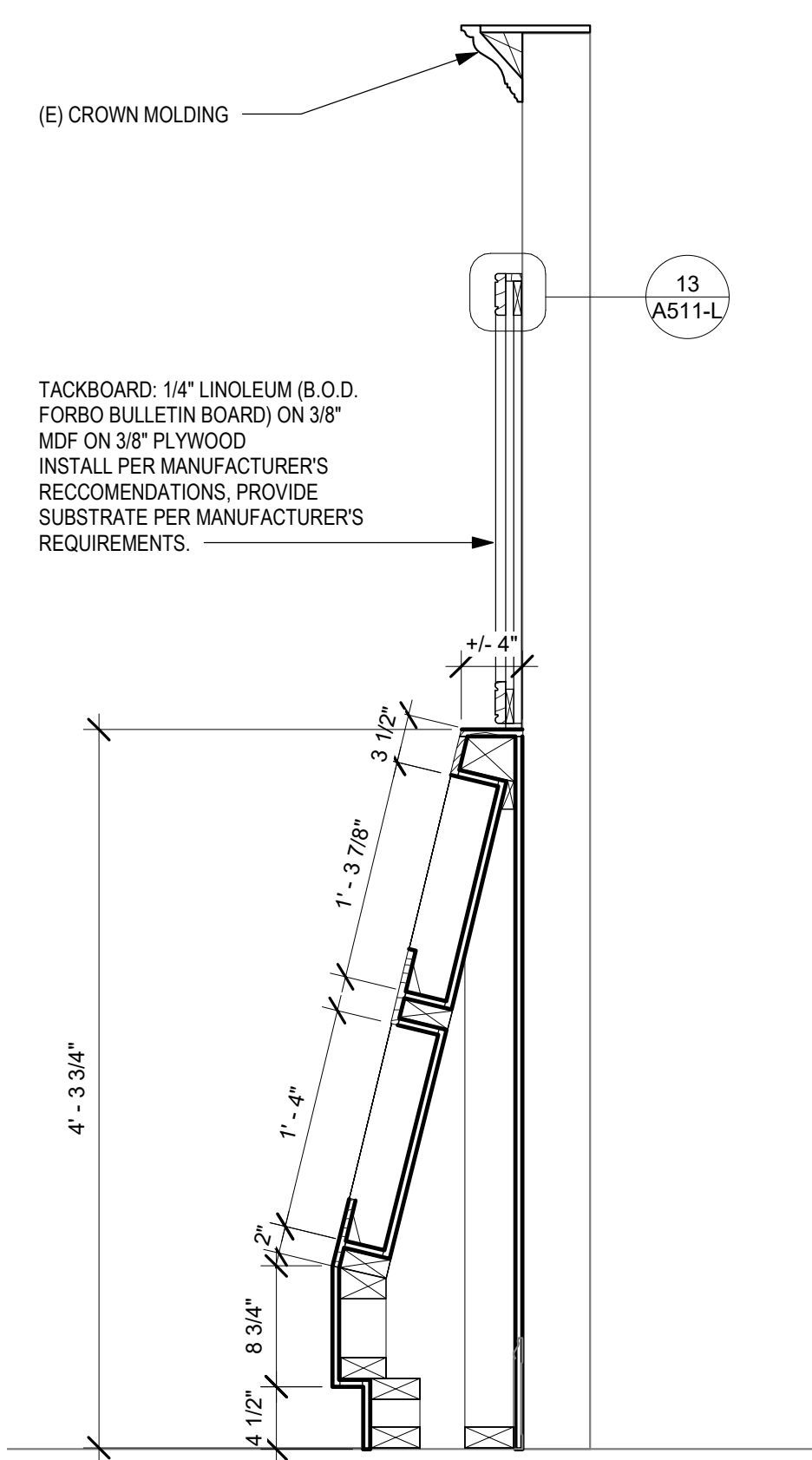
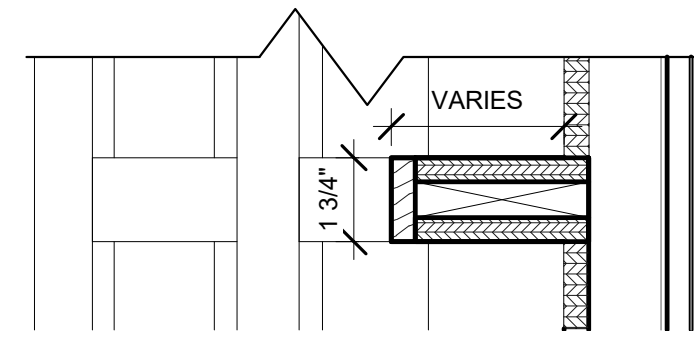
14 DISPLAY RACK VIEW



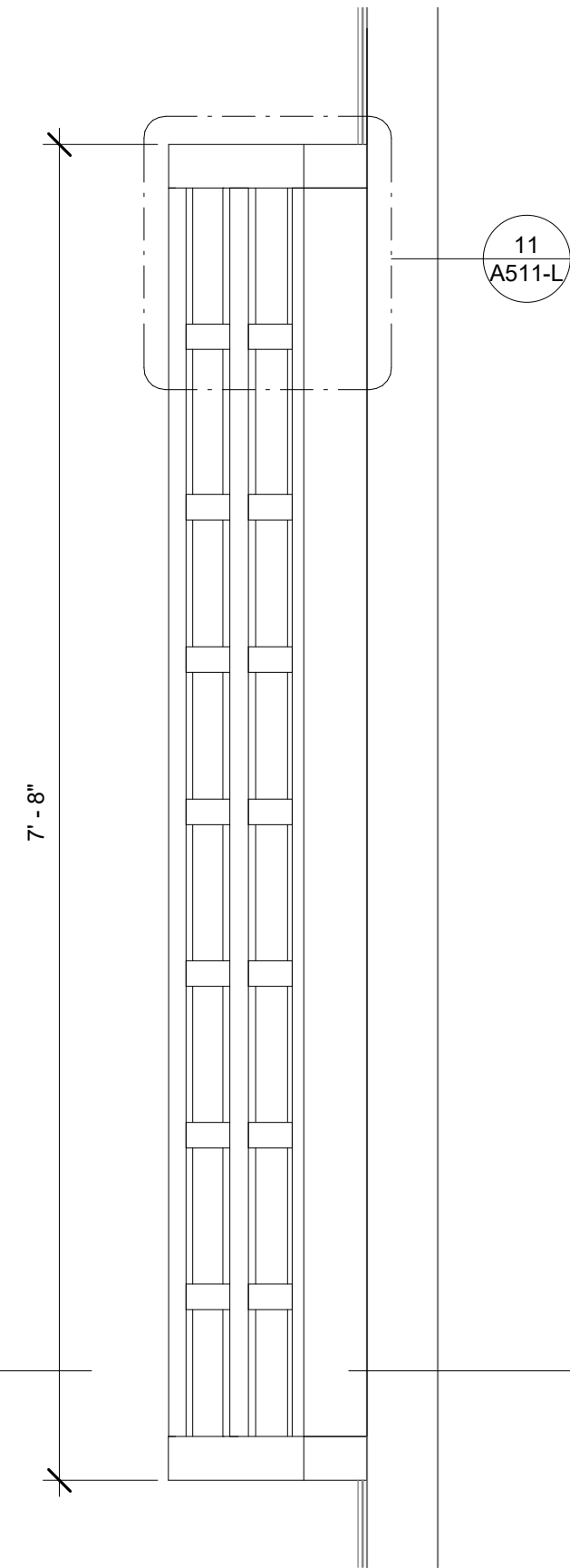
13 BULLETIN BOARD FRAME DETAIL
6" = 1'-0"



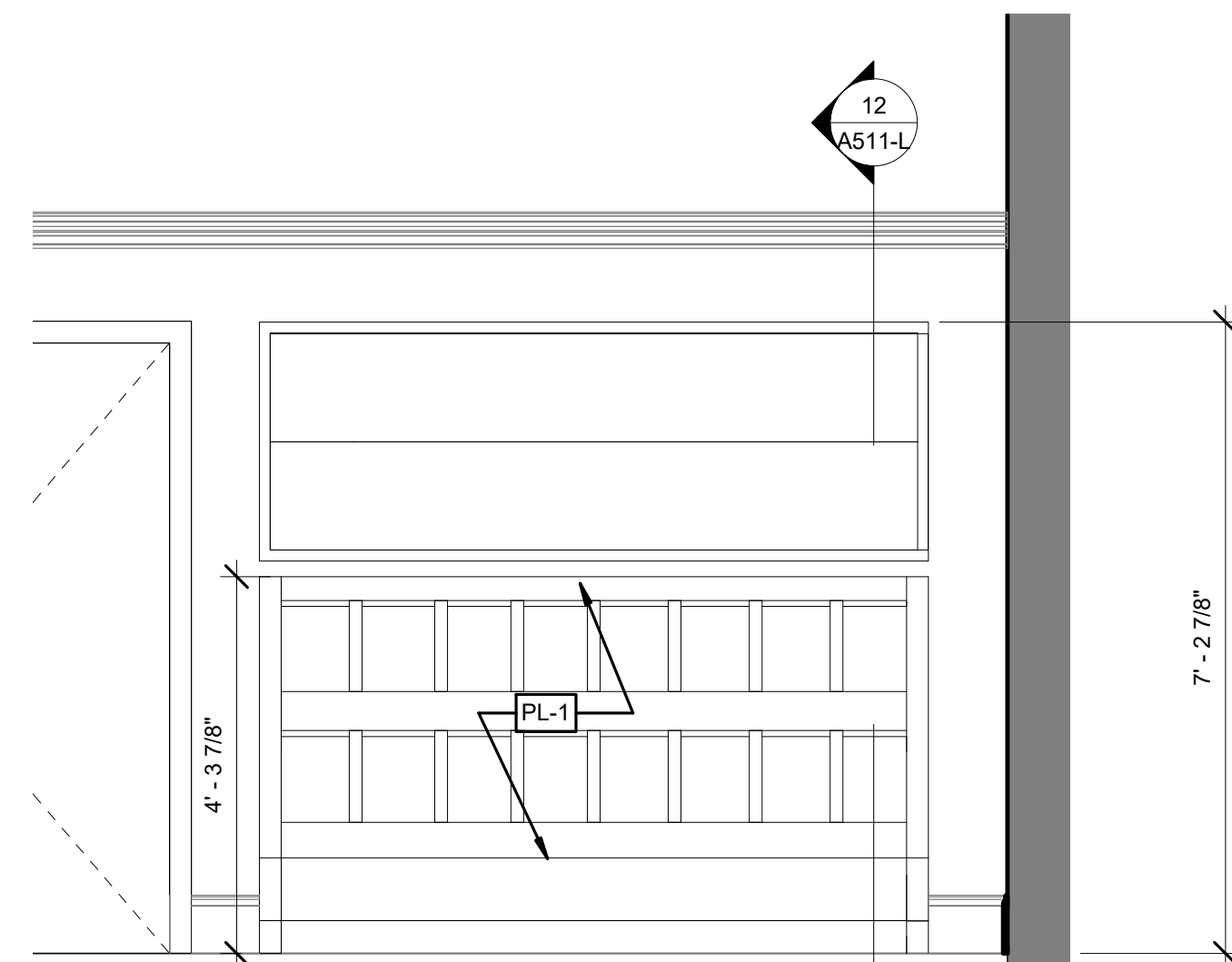
11 DISPLAY RACK PLAN SECTION
3" = 1'-0"



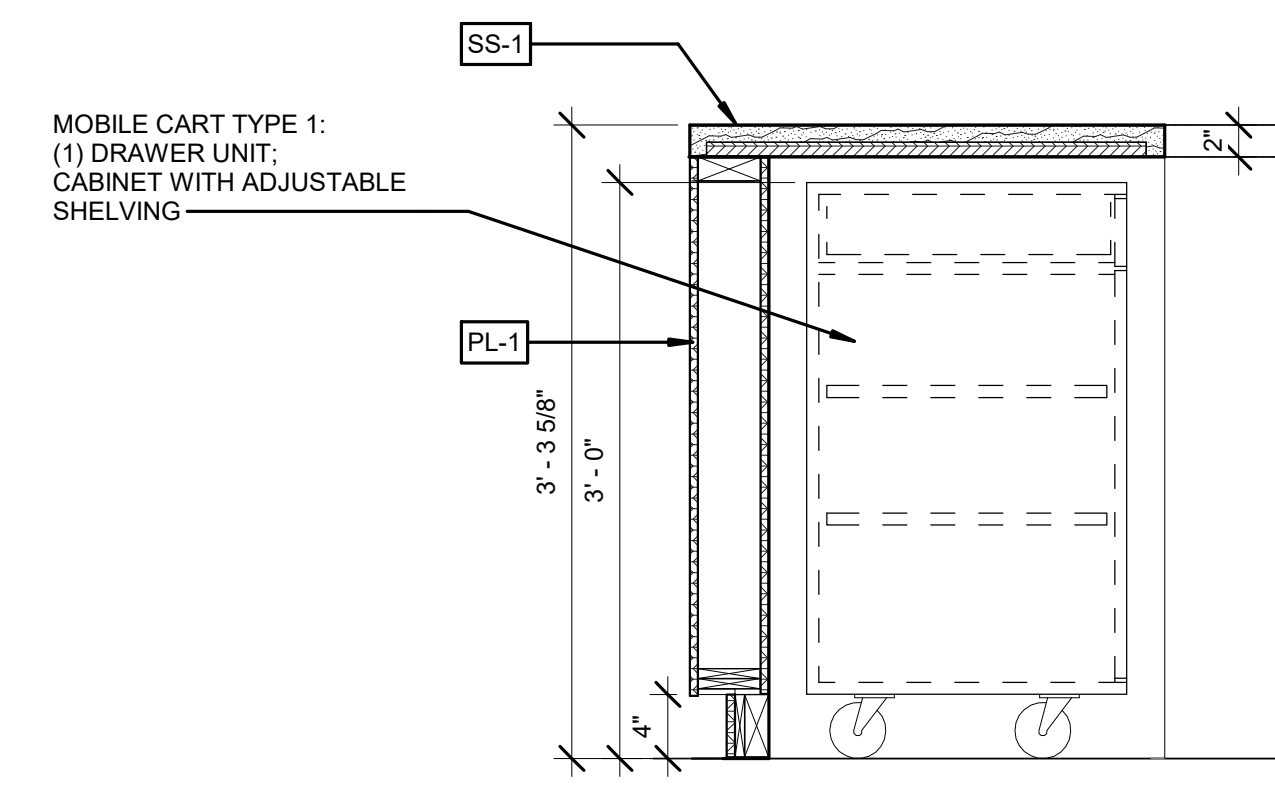
12 DISPLAY RACK SECTION
1" = 1'-0"



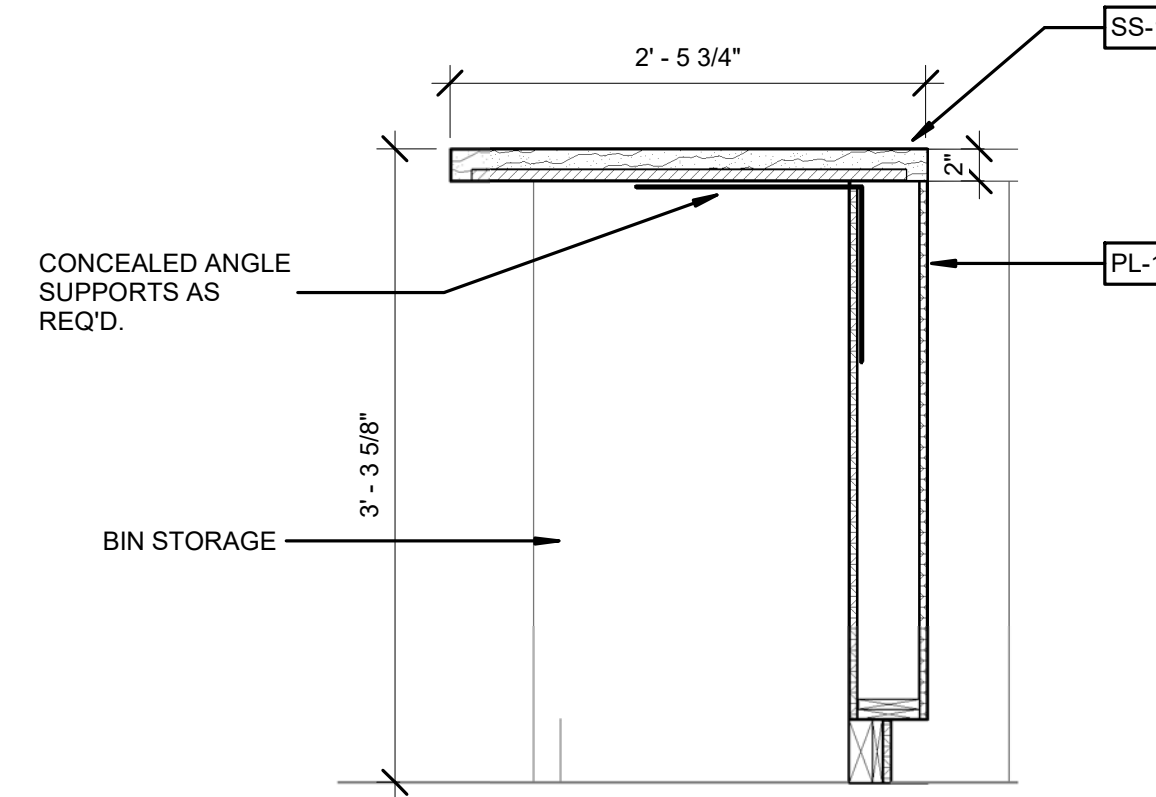
11 DISPLAY RACK ENLARGED PLAN
1" = 1'-0"



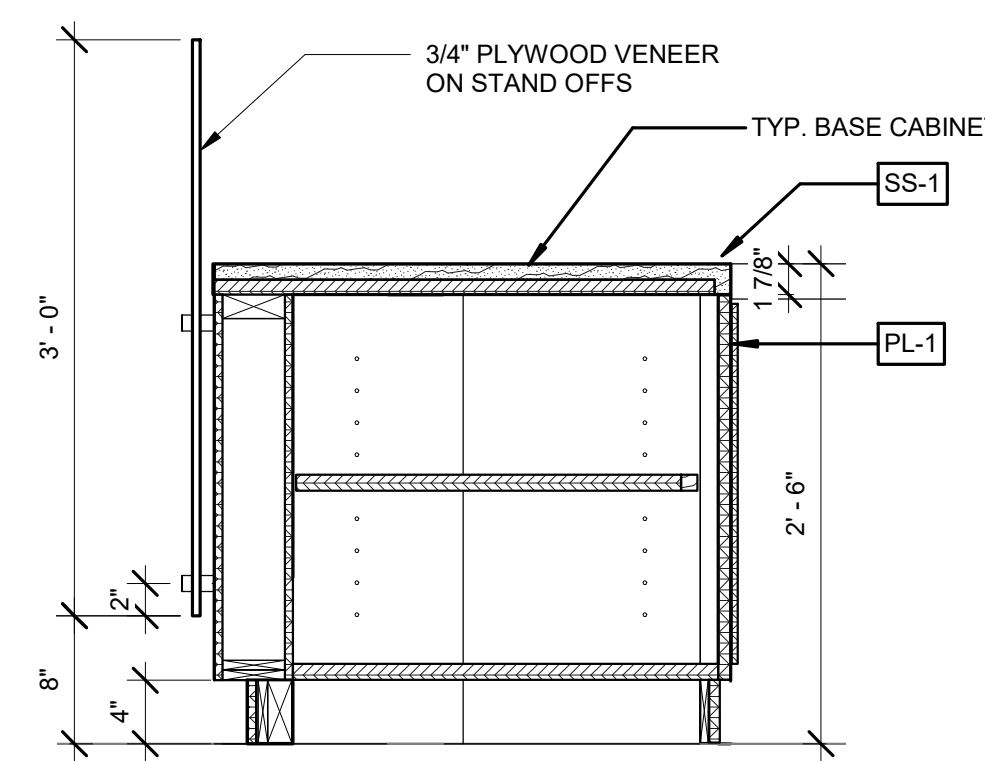
9 DISPLAY RACK ELEVATION
1/2" = 1'-0"



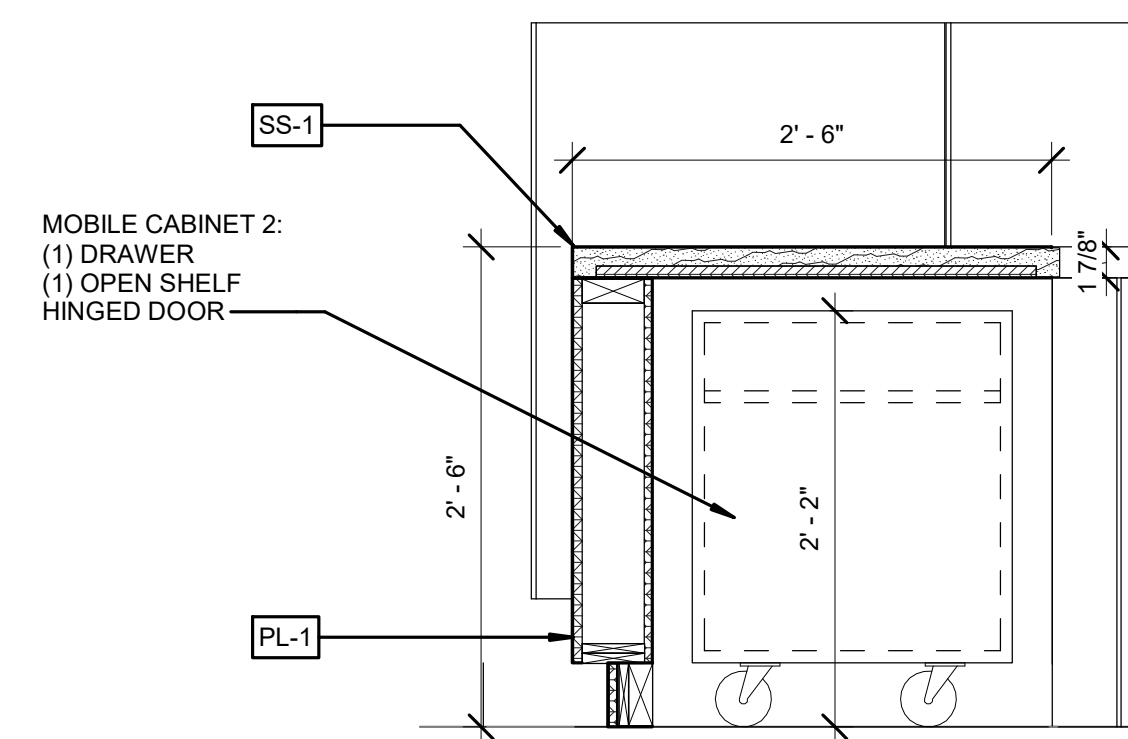
8 SECTION AT MOBILE CABINET
1" = 1'-0"



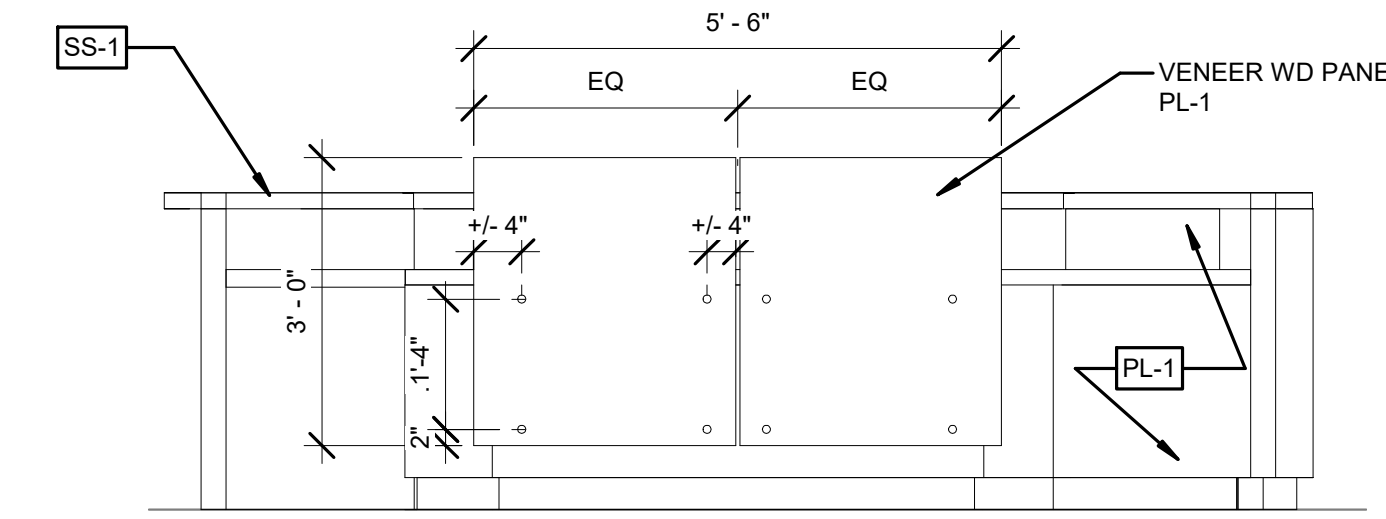
7 SECTION AT BIN STORAGE
1" = 1'-0"



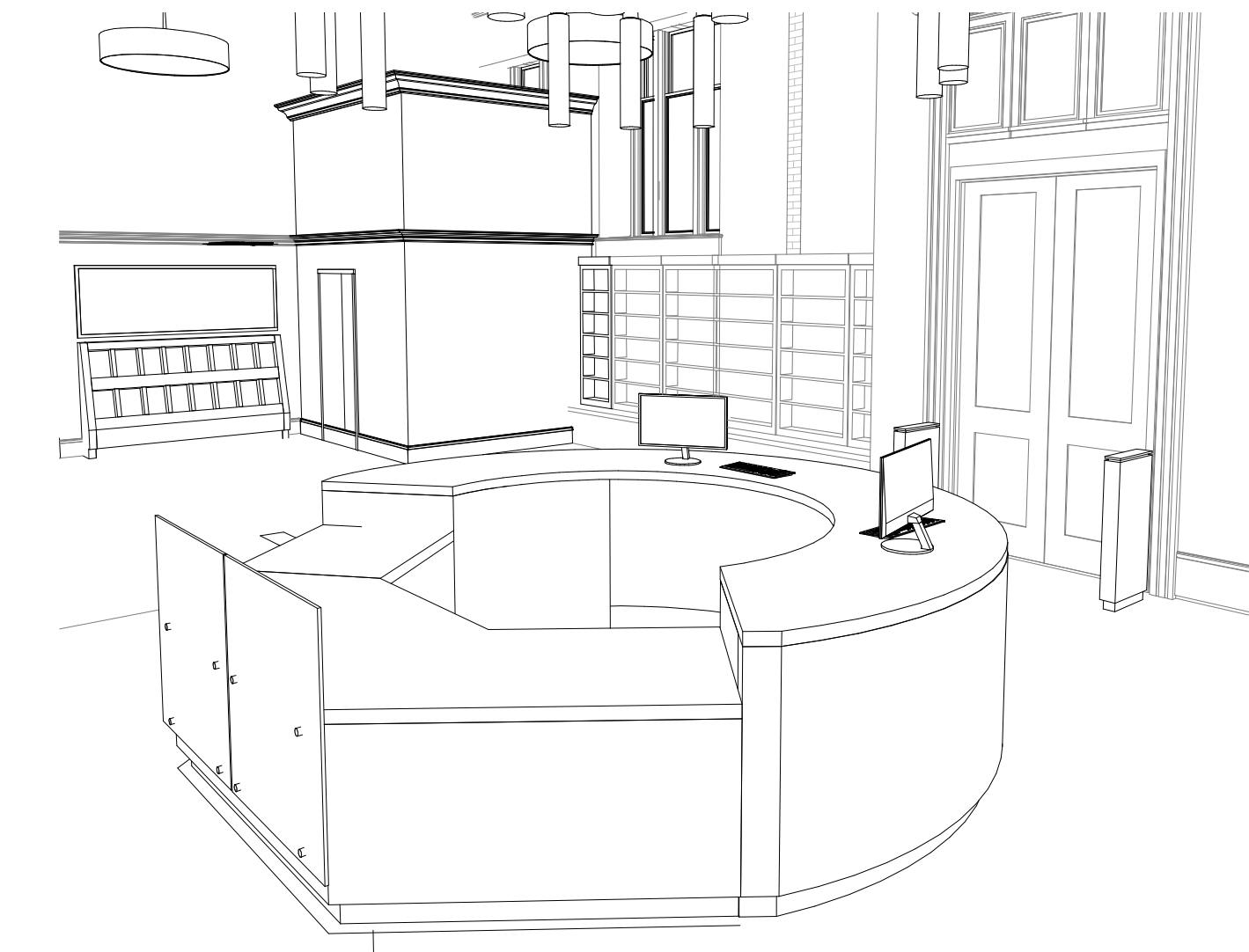
6 SECTION AT CABINET AND SHELF STORAGE
1" = 1'-0"



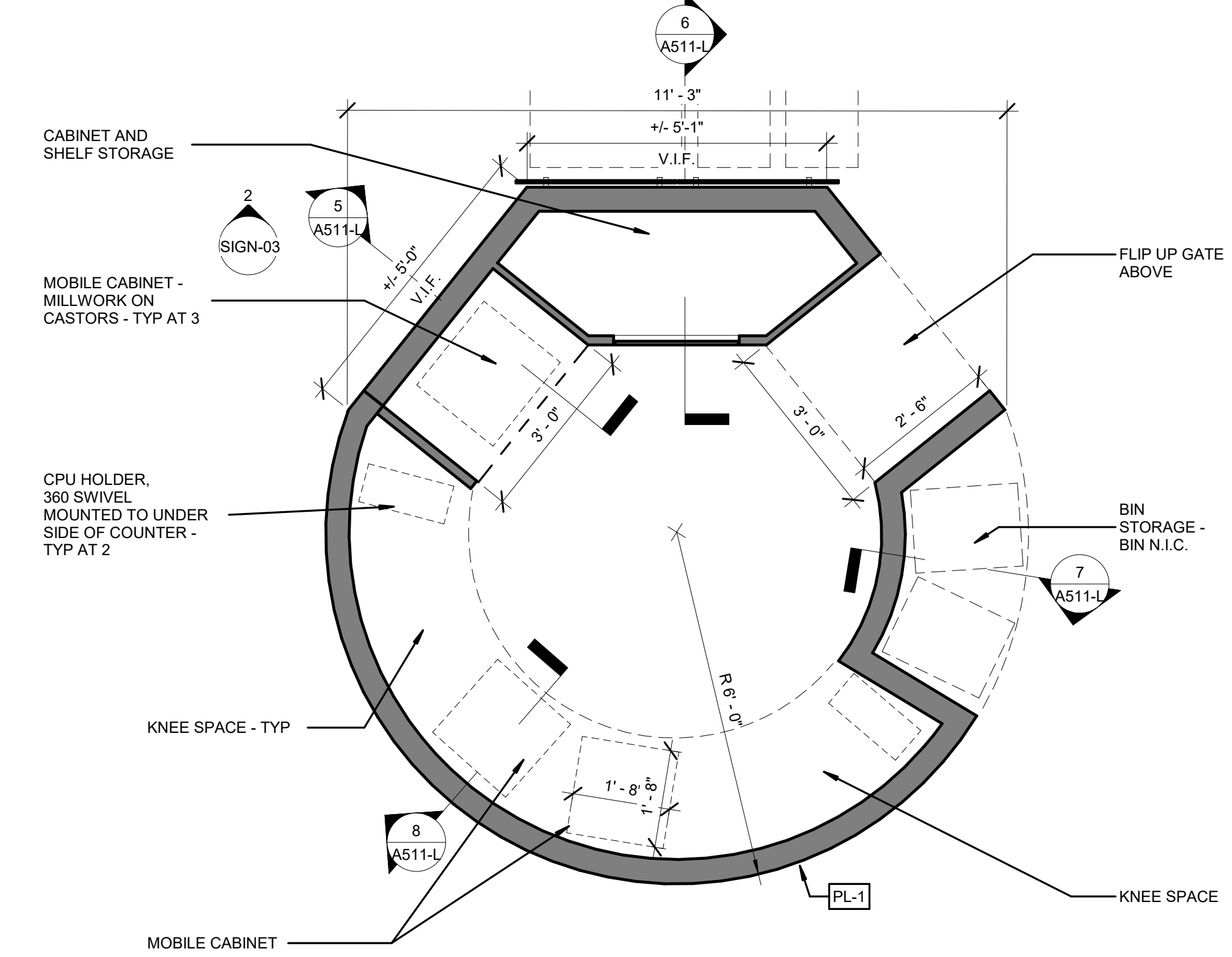
5 SECTION AT LOW COUNTER MOBILE CABINET
1" = 1'-0"



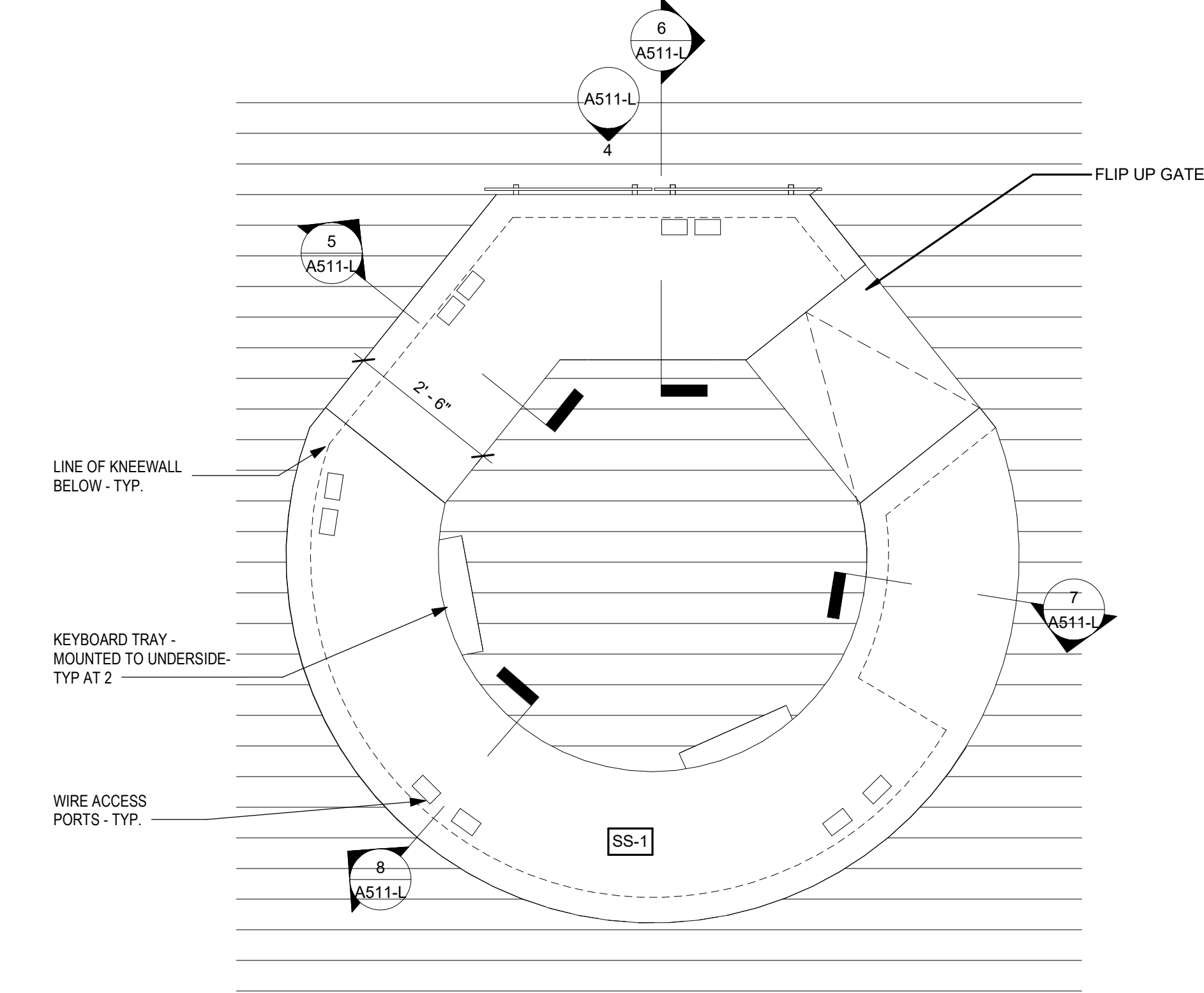
4 CIRCULATION DESK ELEVATION
1/2" = 1'-0"



3 CIRCULATION DESK



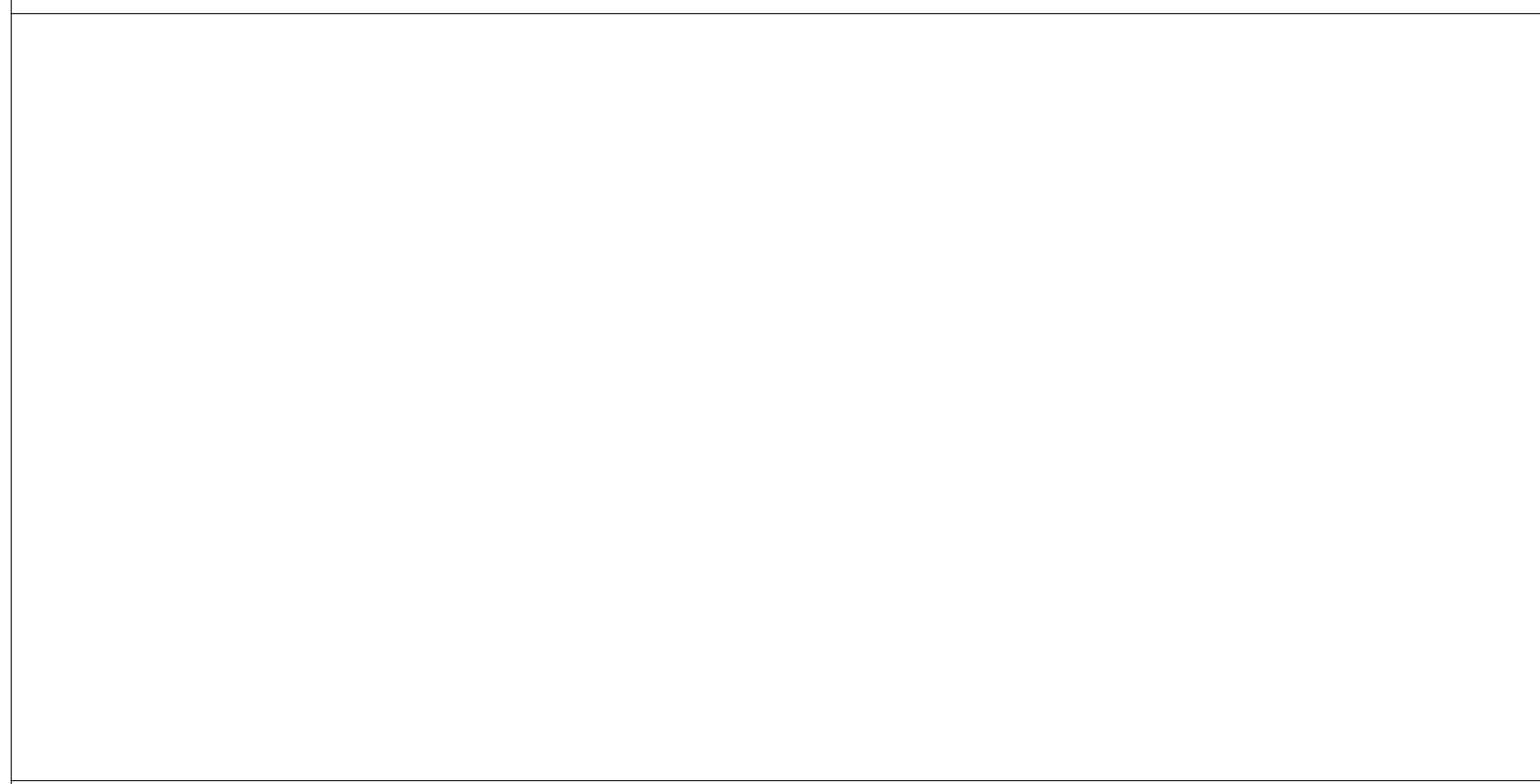
2 CIRCULATION DESK - ENLARGED CUT PLAN
1/2" = 1'-0"



1 CIRCULATION DESK - ENLARGED PLAN
1/2" = 1'-0"

FOR INFORMATION / COORDINATION ONLY

STAMP AREA



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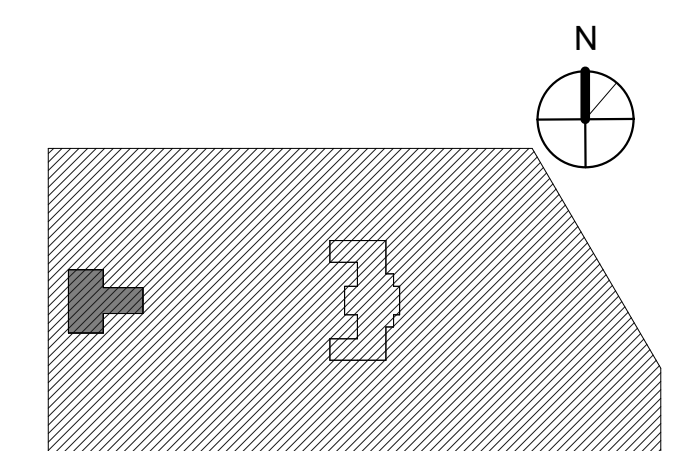


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PROJECT TITLE
**KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS**

KEY PLAN



DRAWING TITLE
**MILLWORK - CIRCULATION
DESK & DISPLAY**

PROJECT NO.
21070

DATE
9/7/22

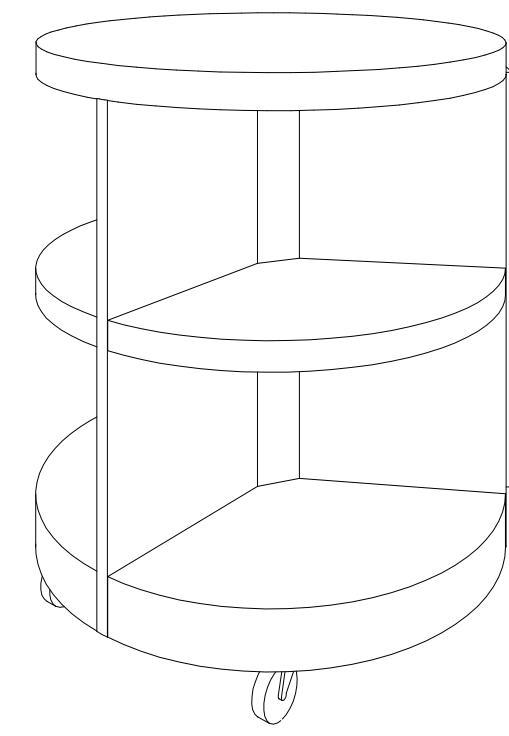
SCALE
As Indicated

DRAWN BY
M.K.

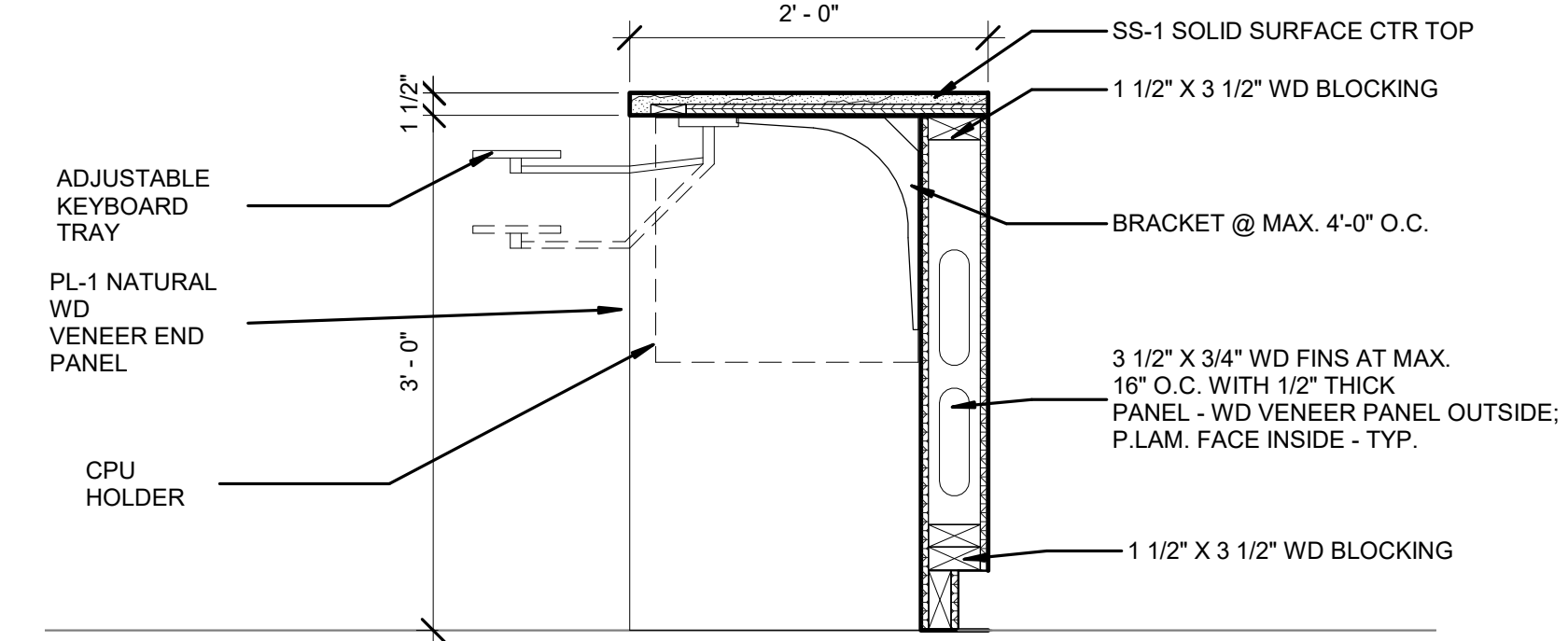
CHECKED BY
D.B.

DRAWING NO.
A511-L

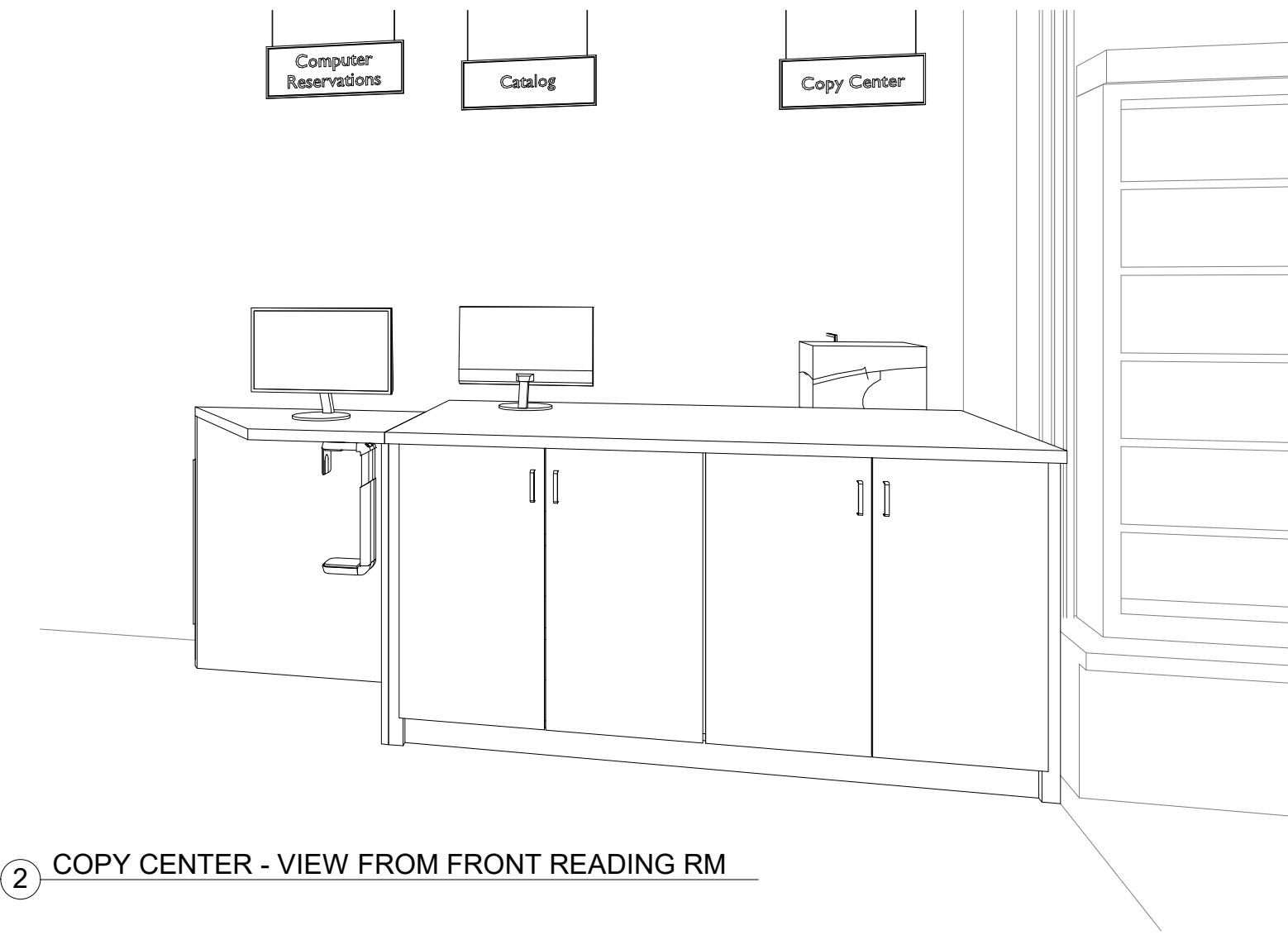
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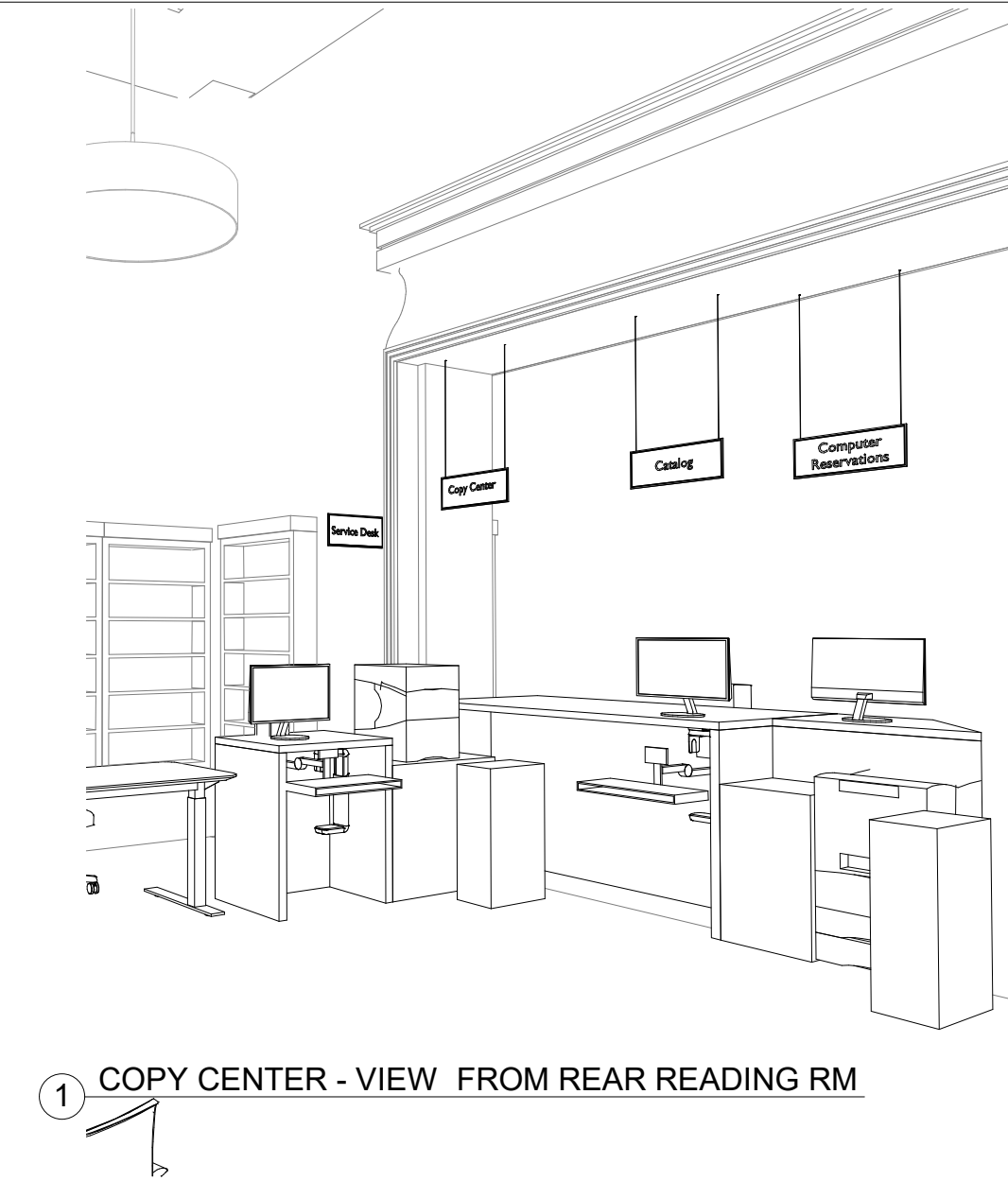
4 CIRCULAR DISPLAY



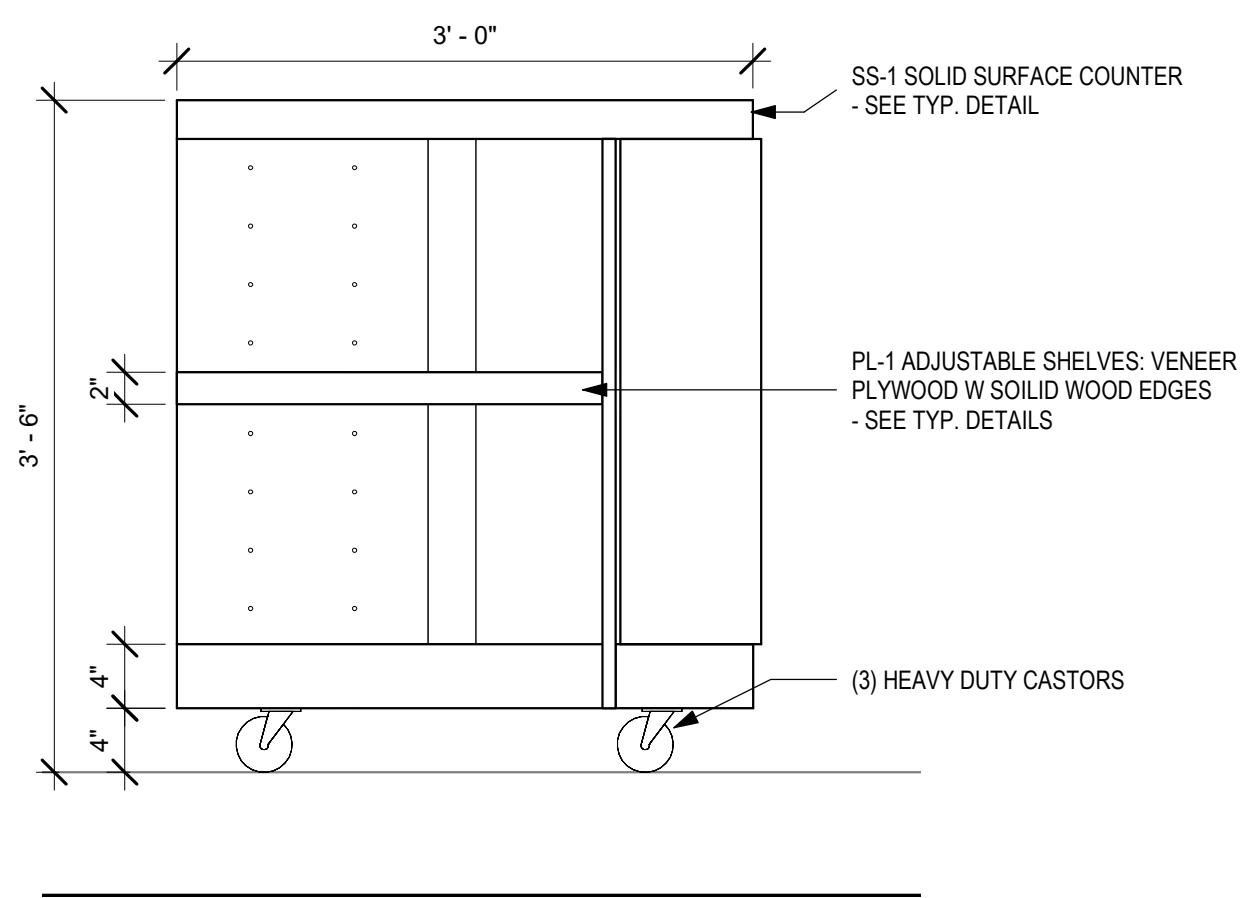
3 SECTION AT COMPUTER SIDE
1" = 1'-0"



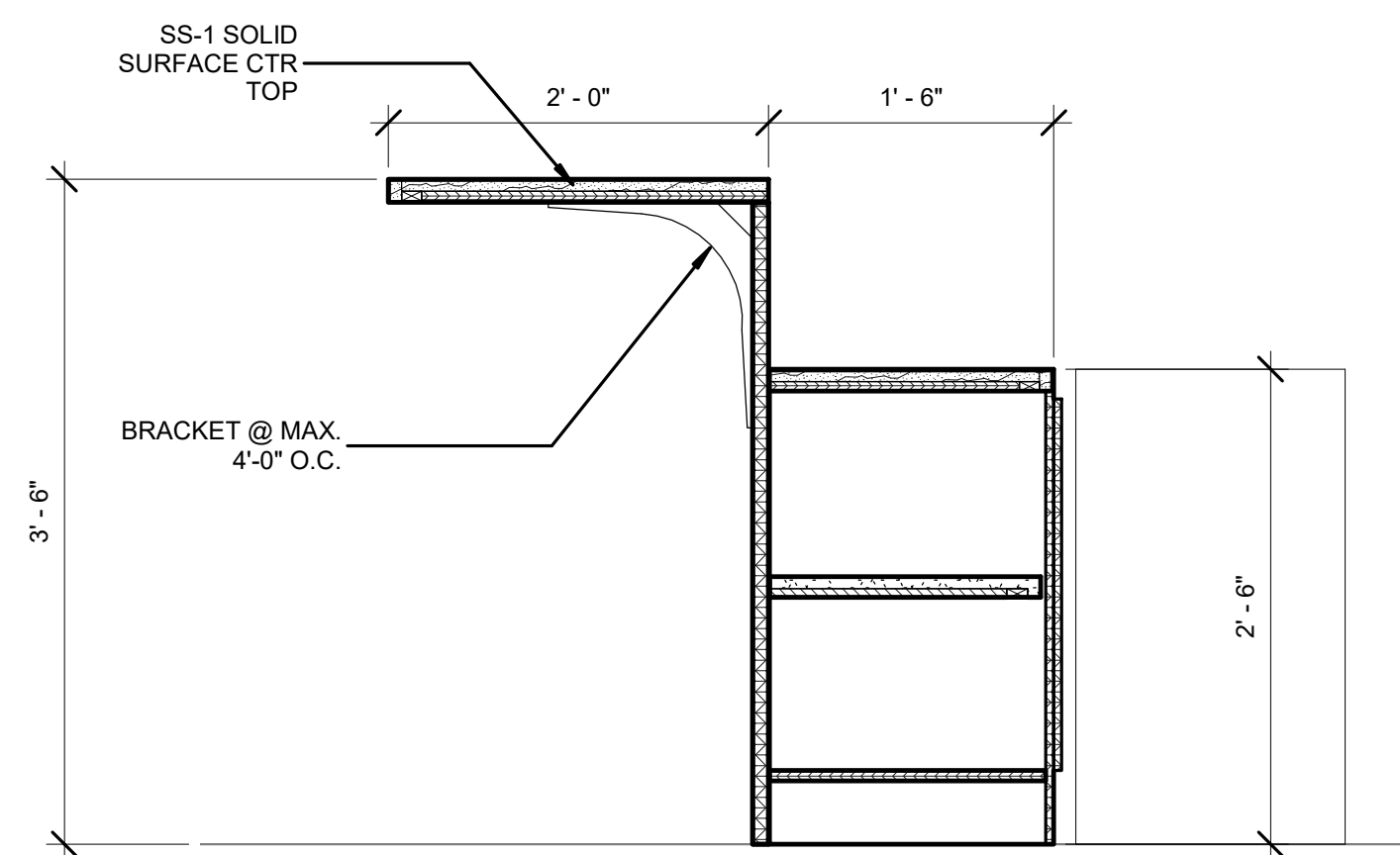
2 COPY CENTER - VIEW FROM FRONT READING RM



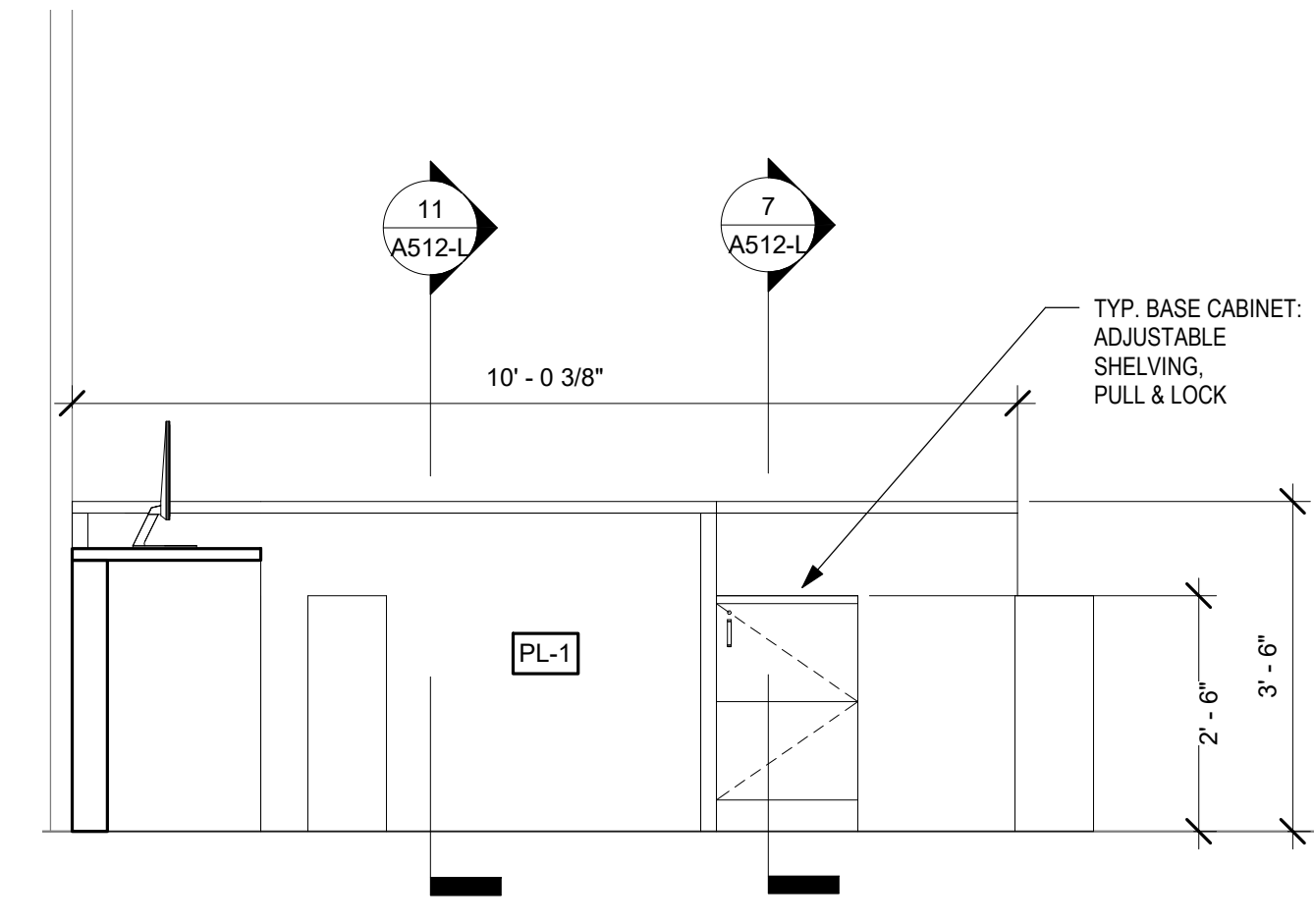
1 COPY CENTER - VIEW FROM REAR READING RM



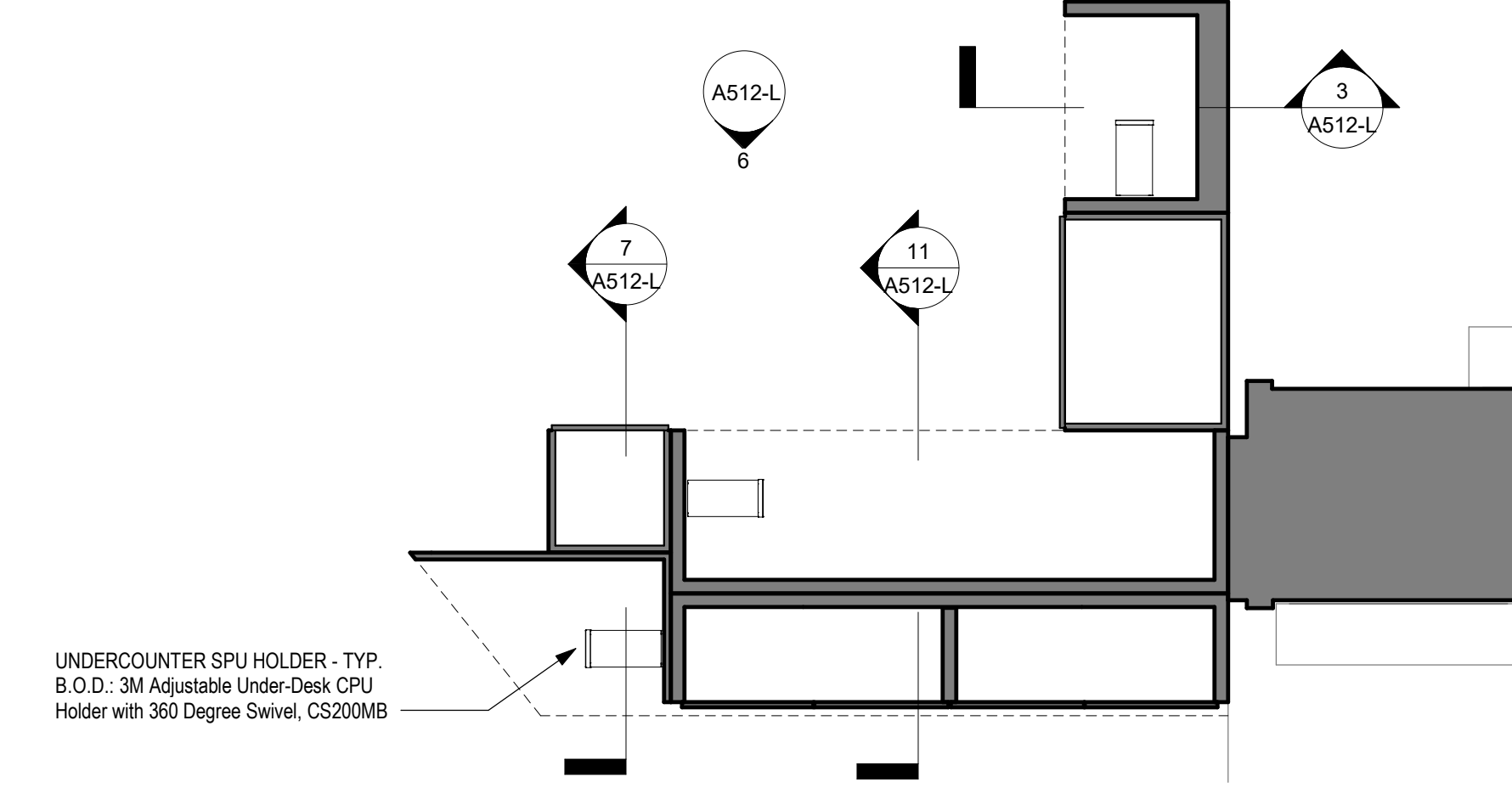
8 DISPLAY UNIT ELEVATION
1" = 1'-0"



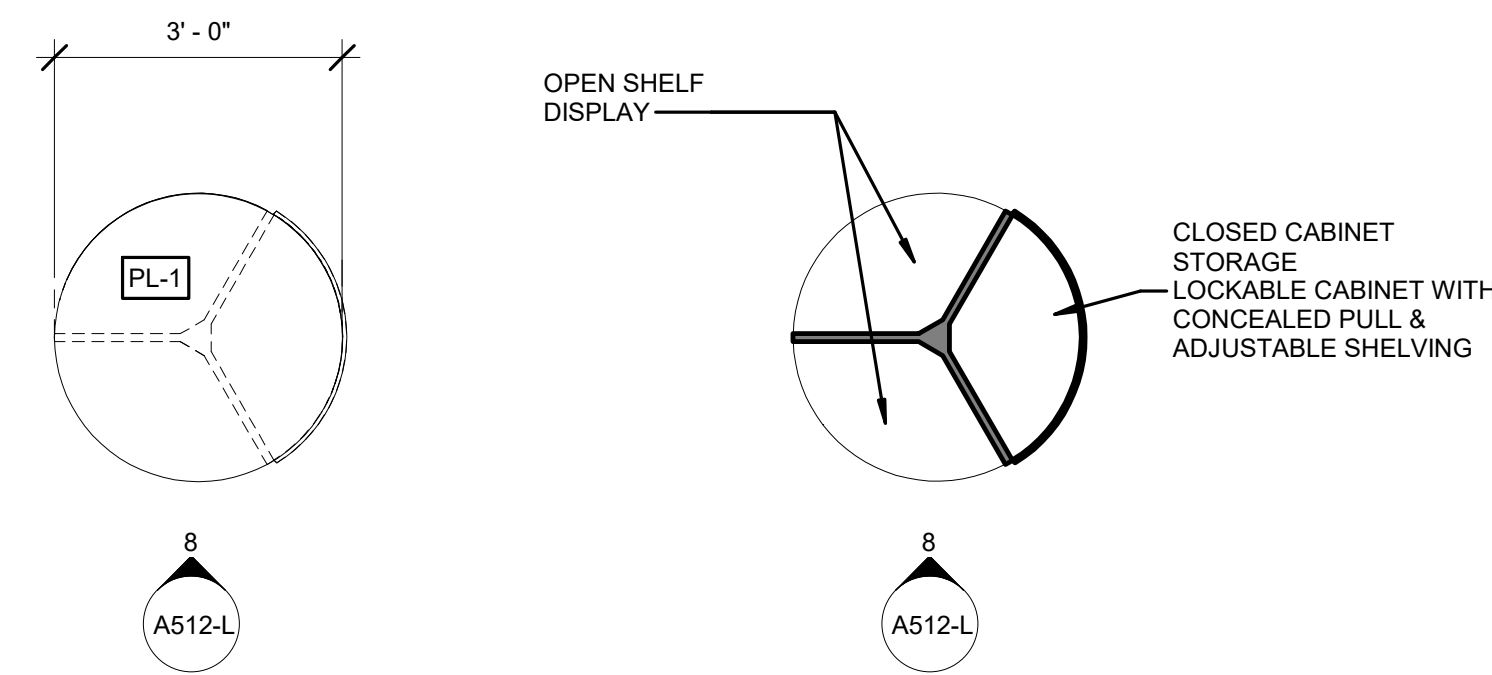
7 SECTION AT LOW COUNTER/RESERVATION COMPUTER
1" = 1'-0"



6 PRINTER AREA -SECTION/ELEVATION AT PRINTERS/CATALOG COMPUTER
1/2" = 1'-0"

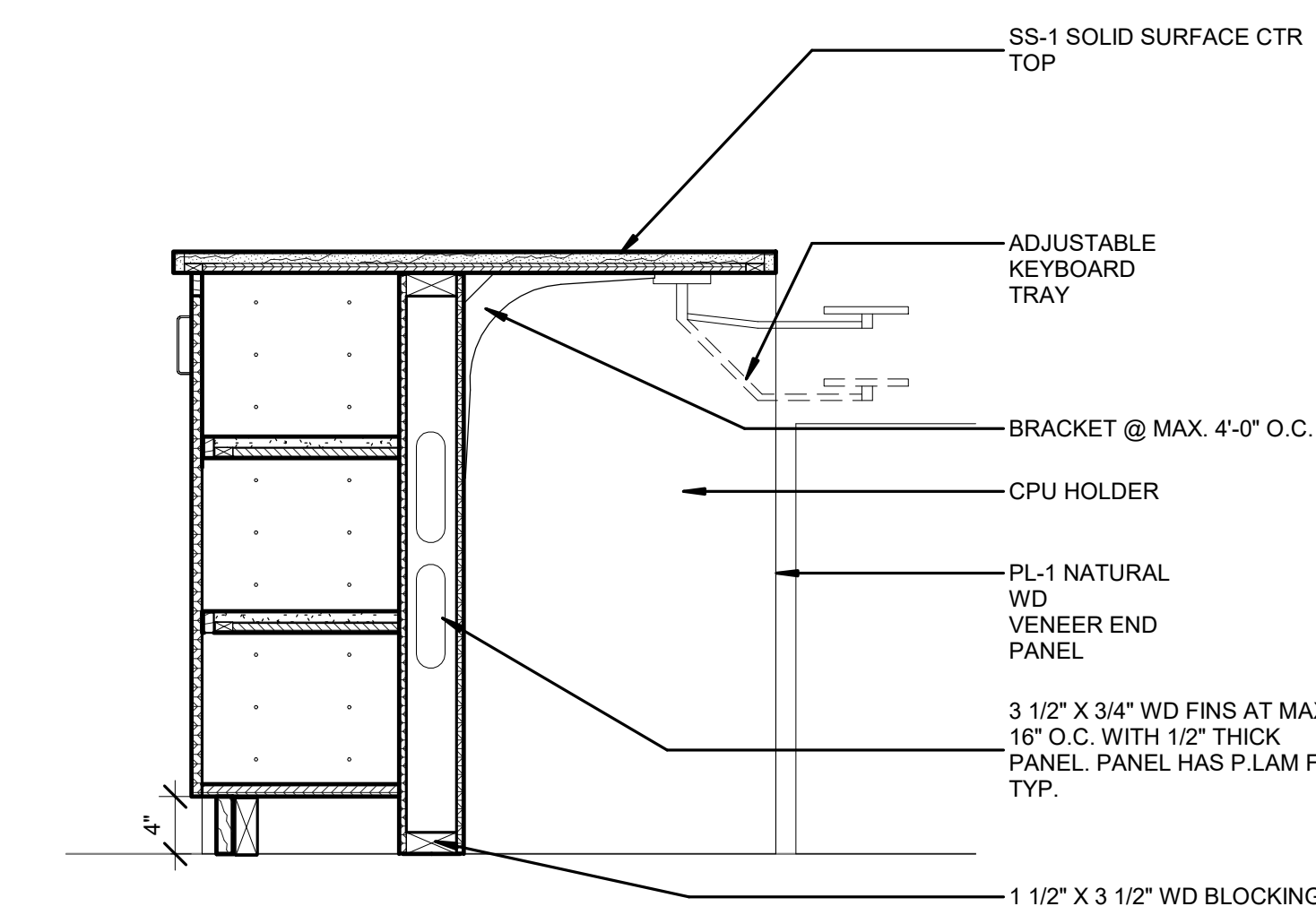


5 PRINTER AREA ENLARGED CUT PLAN
1/2" = 1'-0"

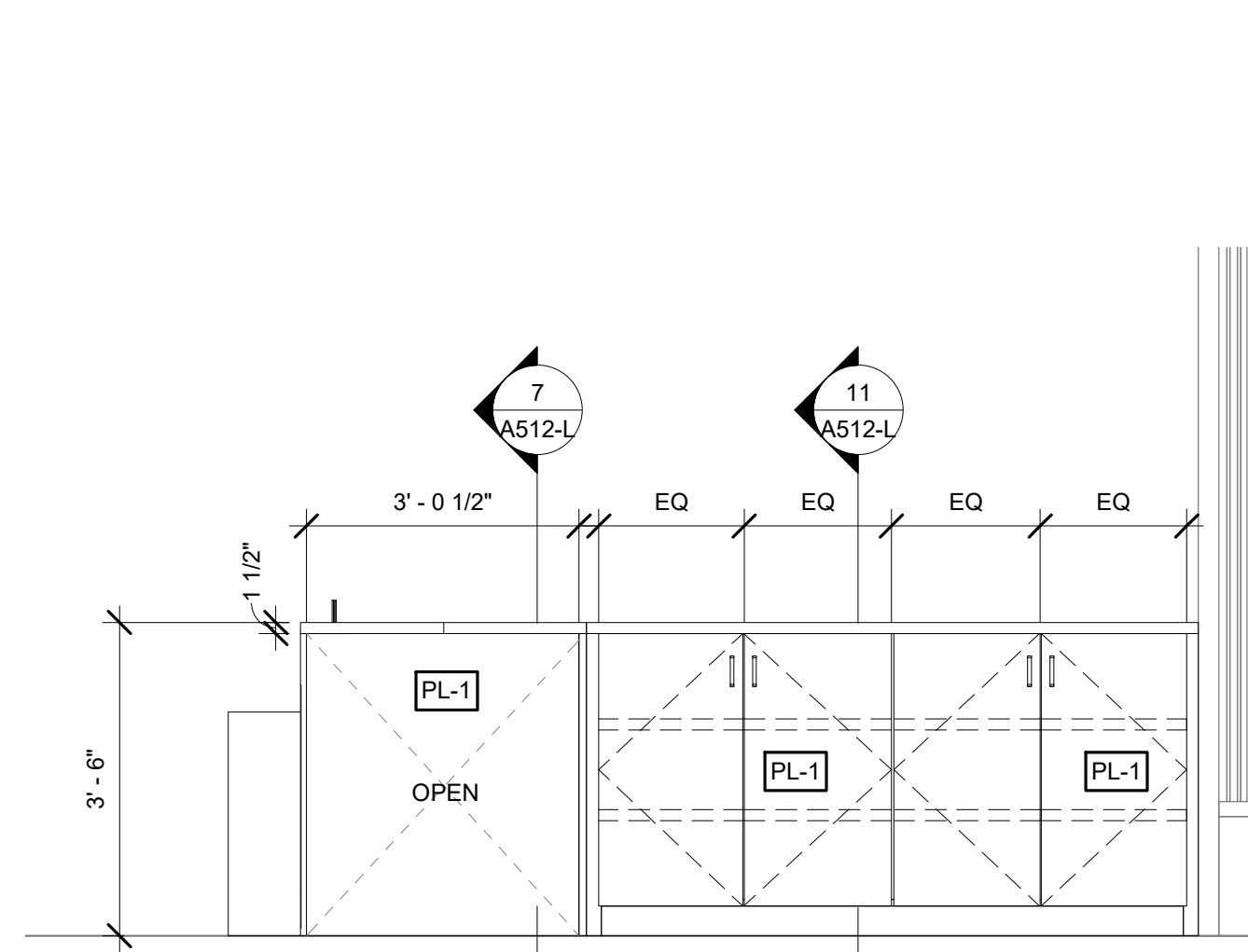


13 CIRCULAR DISPLAY UNIT PLAN
1/2" = 1'-0"

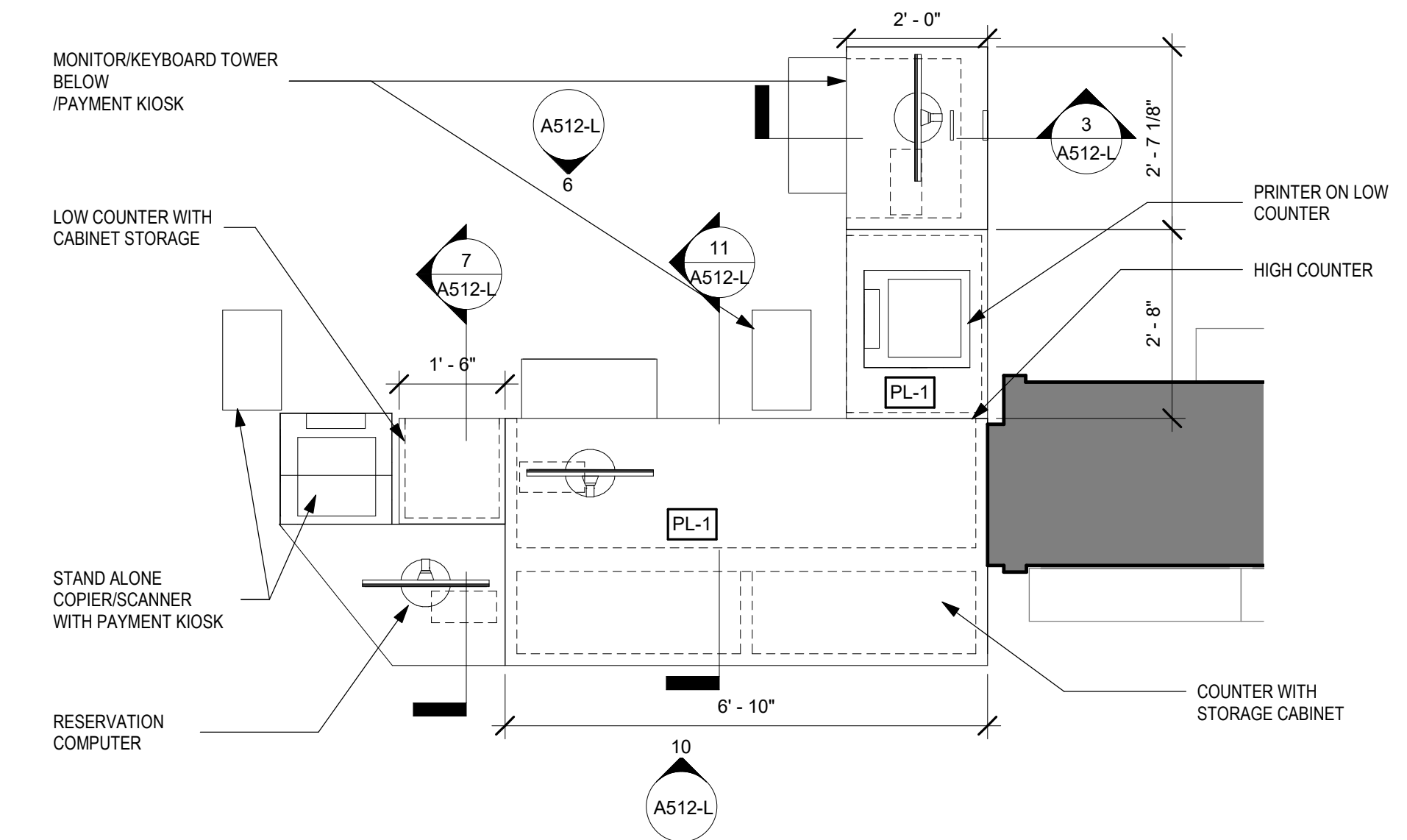
12 CIRCULAR DISPLAY UNIT CUT PLAN
1/2" = 1'-0"



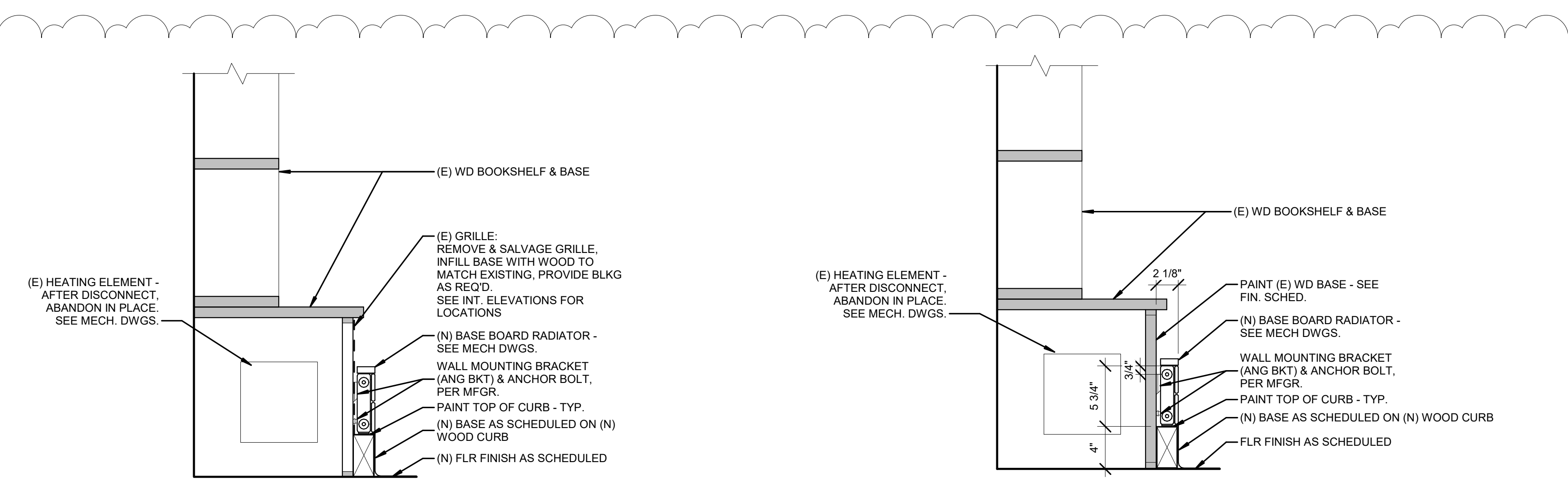
11 SECTION AT HIGH COUNTER/STORAGE CABINET
1" = 1'-0"



10 DISPLAY UNIT ELEVATION
1/2" = 1'-0"



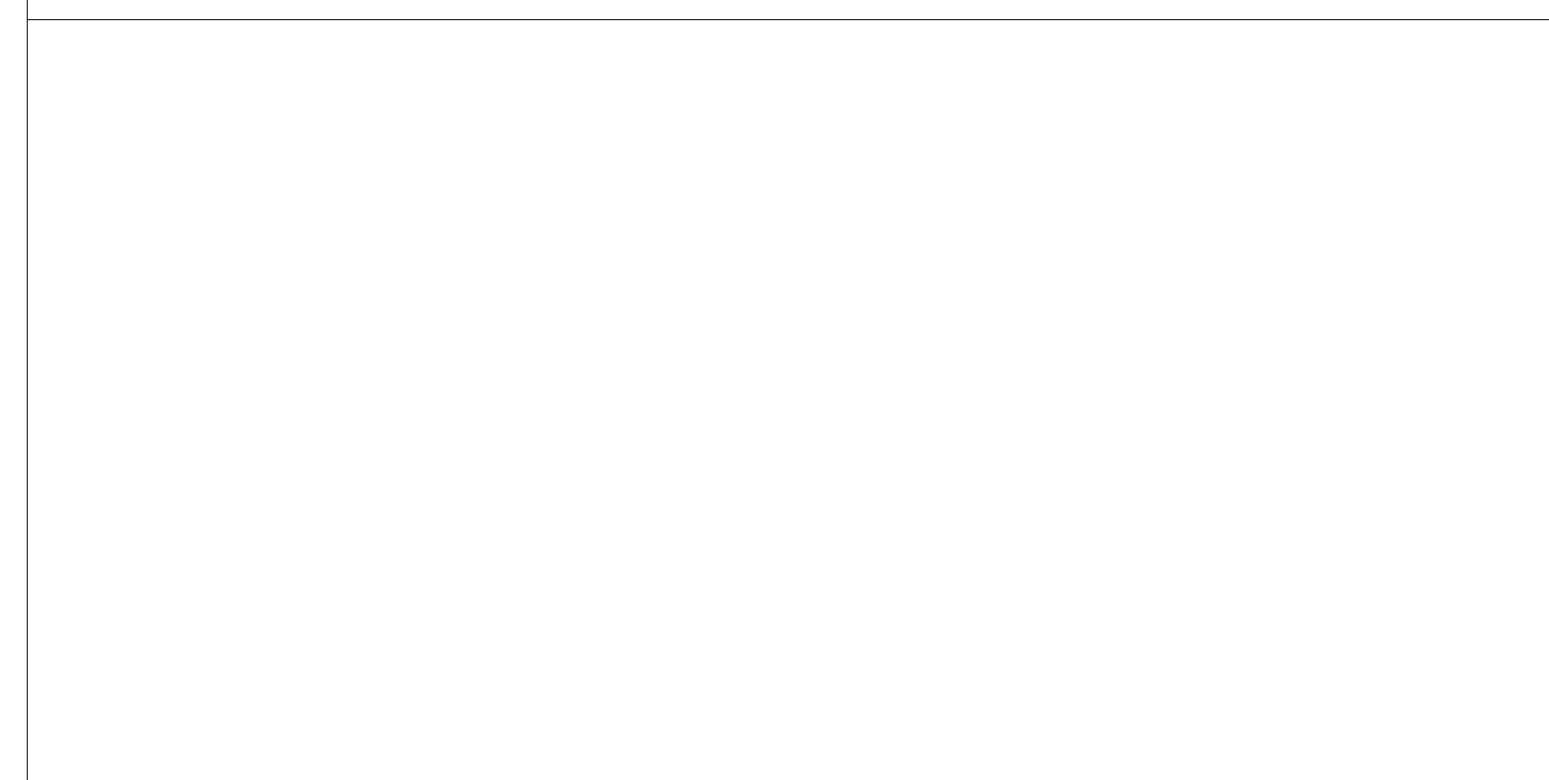
9 PRINTER AREA ENLARGED PLAN
1/2" = 1'-0"



15 SECTION DETAIL AT RADIATOR - GRILLE
1 1/2" = 1'-0"

14 SECTION DETAIL AT RADIATOR -TYP
1 1/2" = 1'-0"

STAMP AREA



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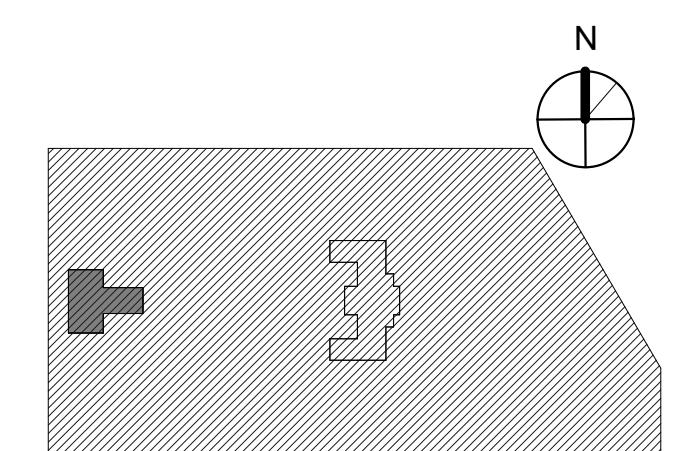


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PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
**KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS**

KEY PLAN



DRAWING TITLE

**MILLWORK - COPY CENTER,
MOBILE DISPLAY, &
RADIATOR DTLS**

PROJECT NO.
21070

DATE 9/7/22

SCALE As indicated

DRAWN BY M.K.

CHECKED BY D.B.

A512-L

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

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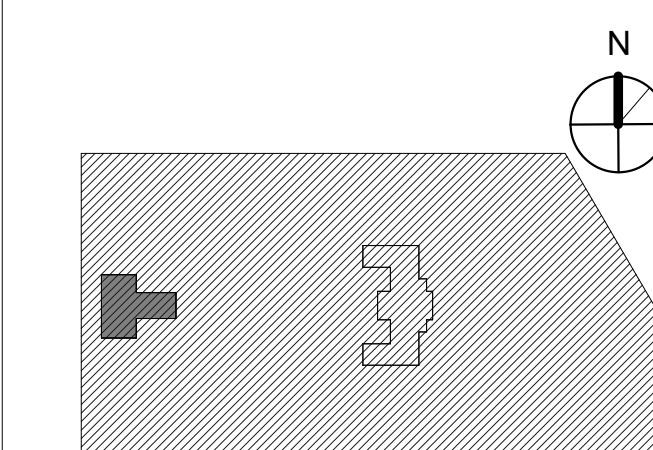


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PROJECT TITLE
**KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS**

KEY PLAN



DRAWING TITLE
MILLWORK - KITCHEN

PROJECT NO.
21070

DATE
9/7/22

SCALE
As indicated

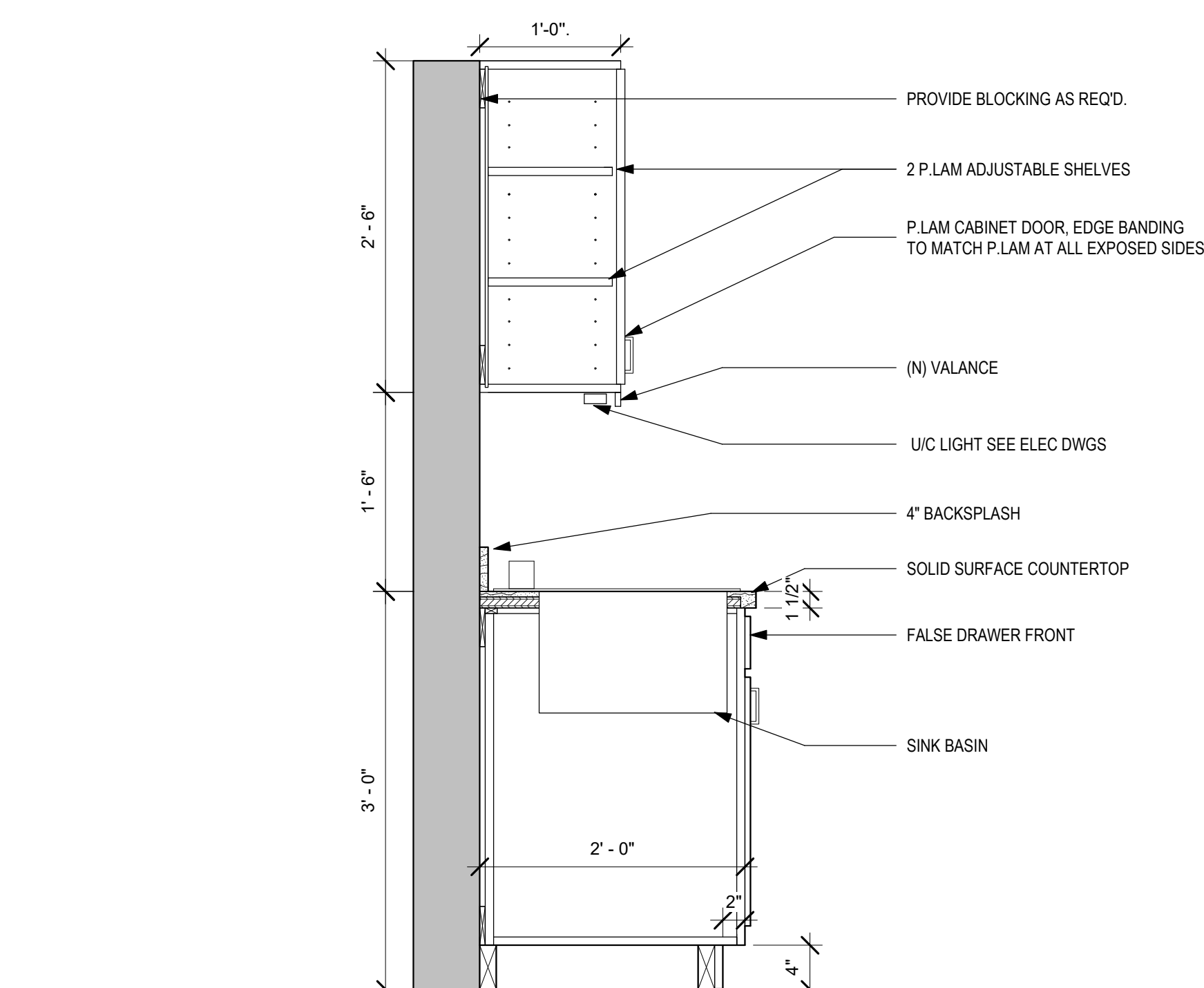
DRAWN BY
A.F.

CHECKED BY
D.B.

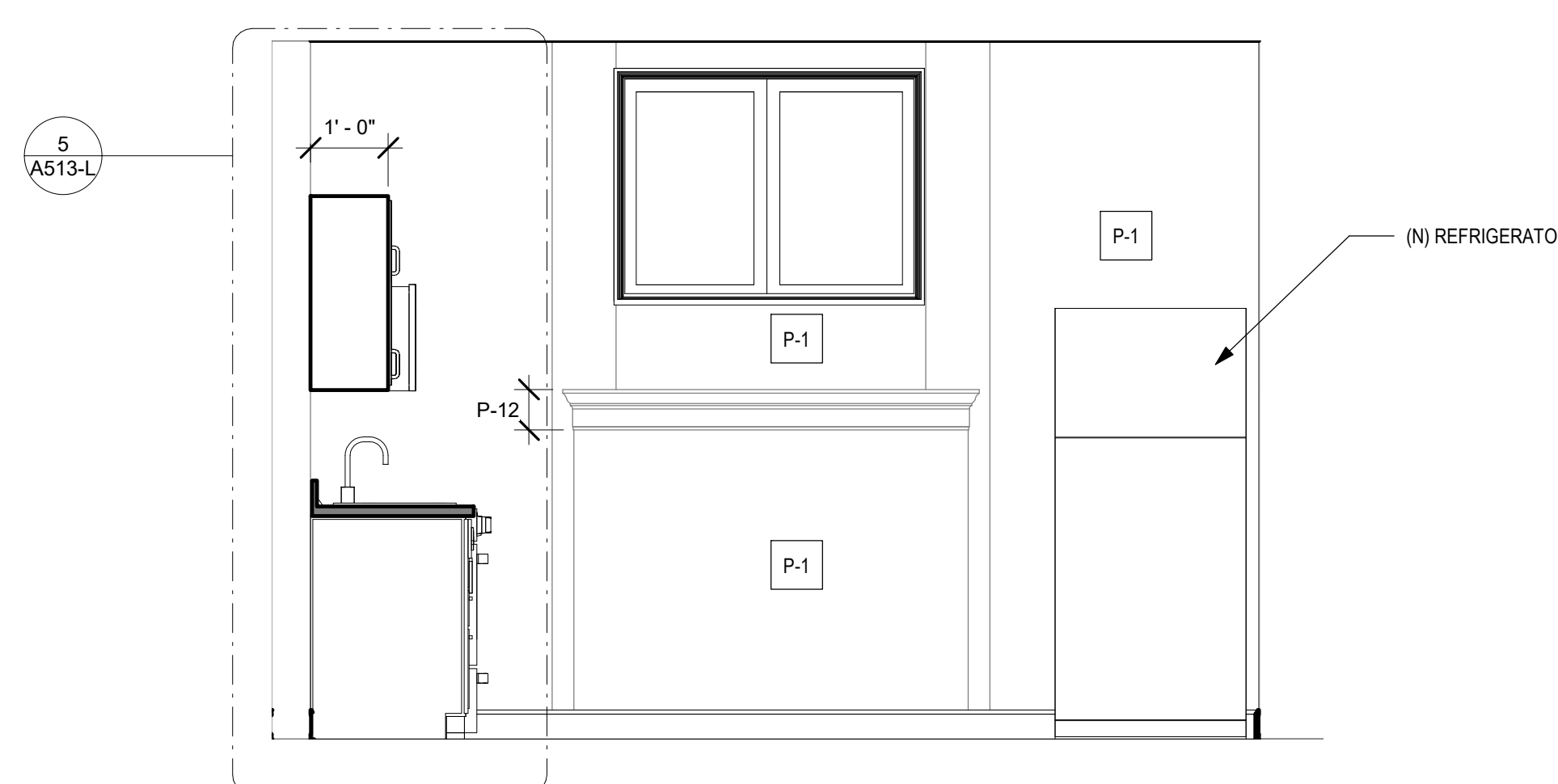
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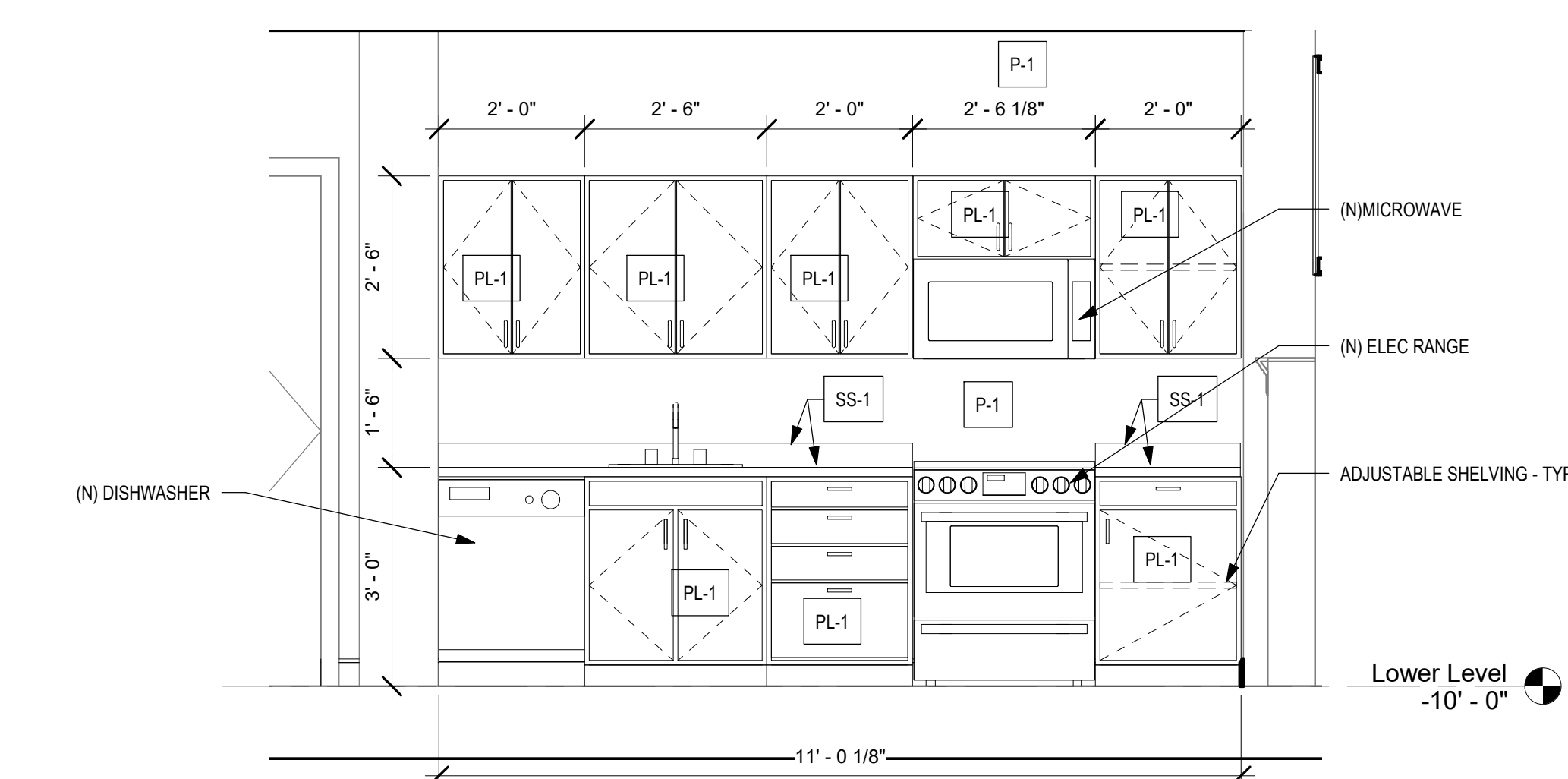
2 KITCHEN 3D



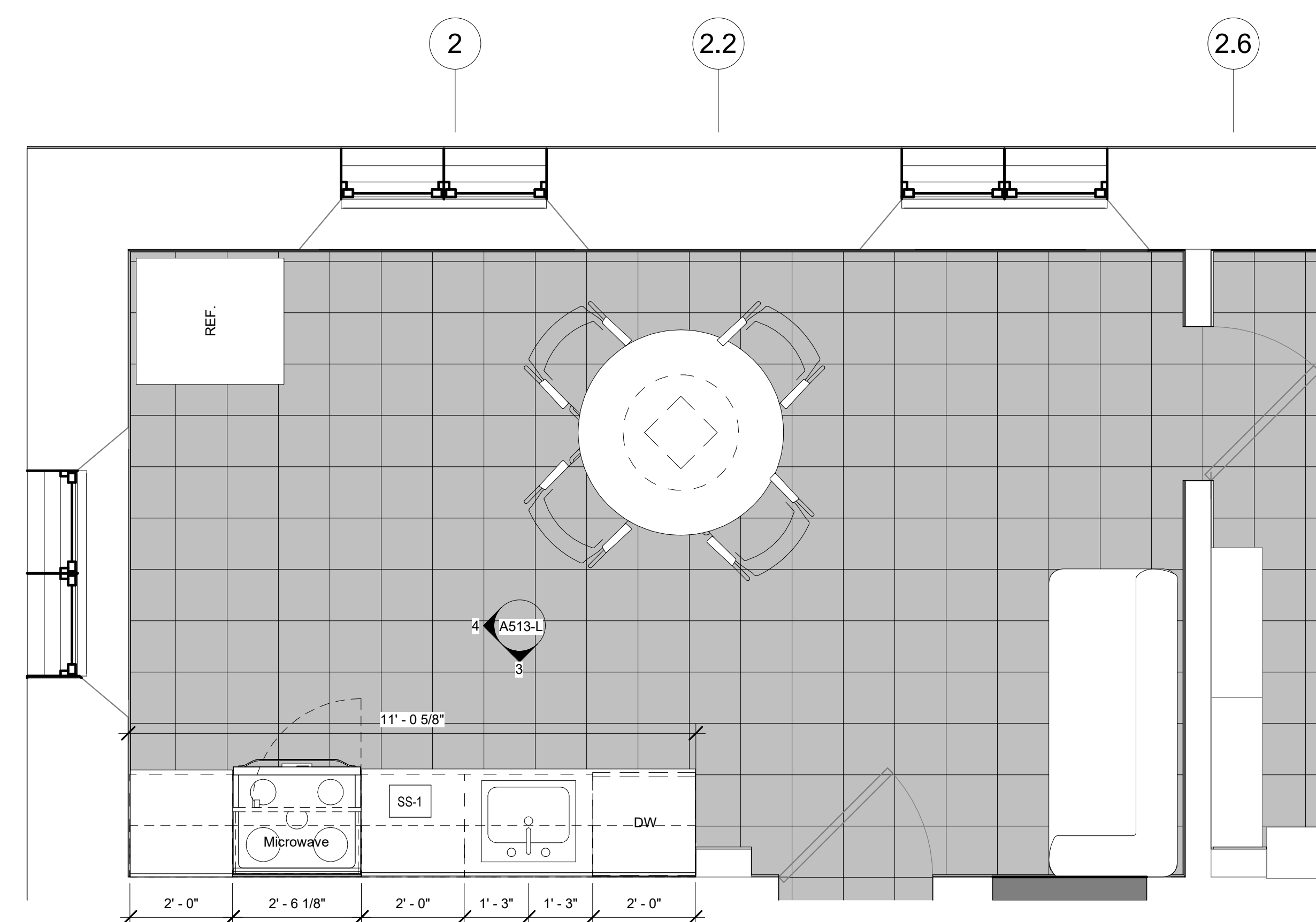
5 TYPICAL CABINET DETAIL
1" = 1'-0"



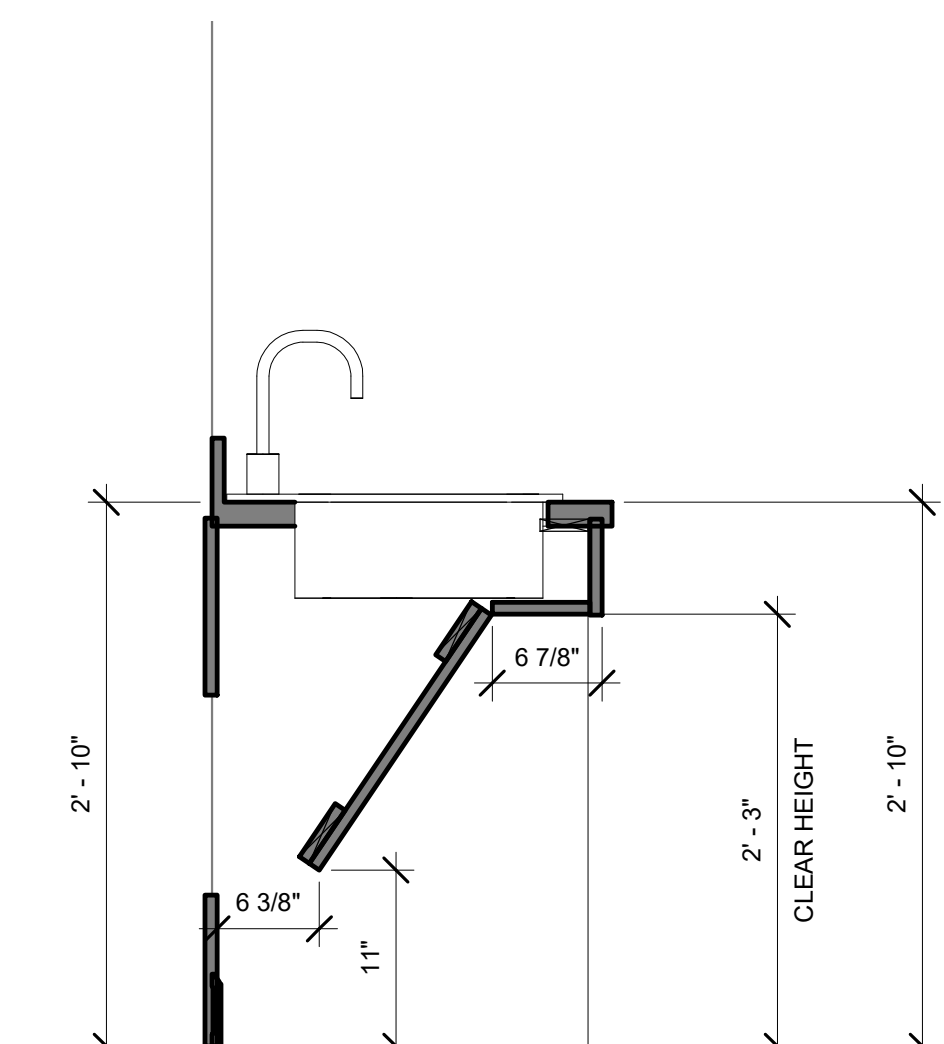
4 ENLARGED ELEVATION - STAFF KITCHEN LOOKING NORTH
1/2" = 1'-0"



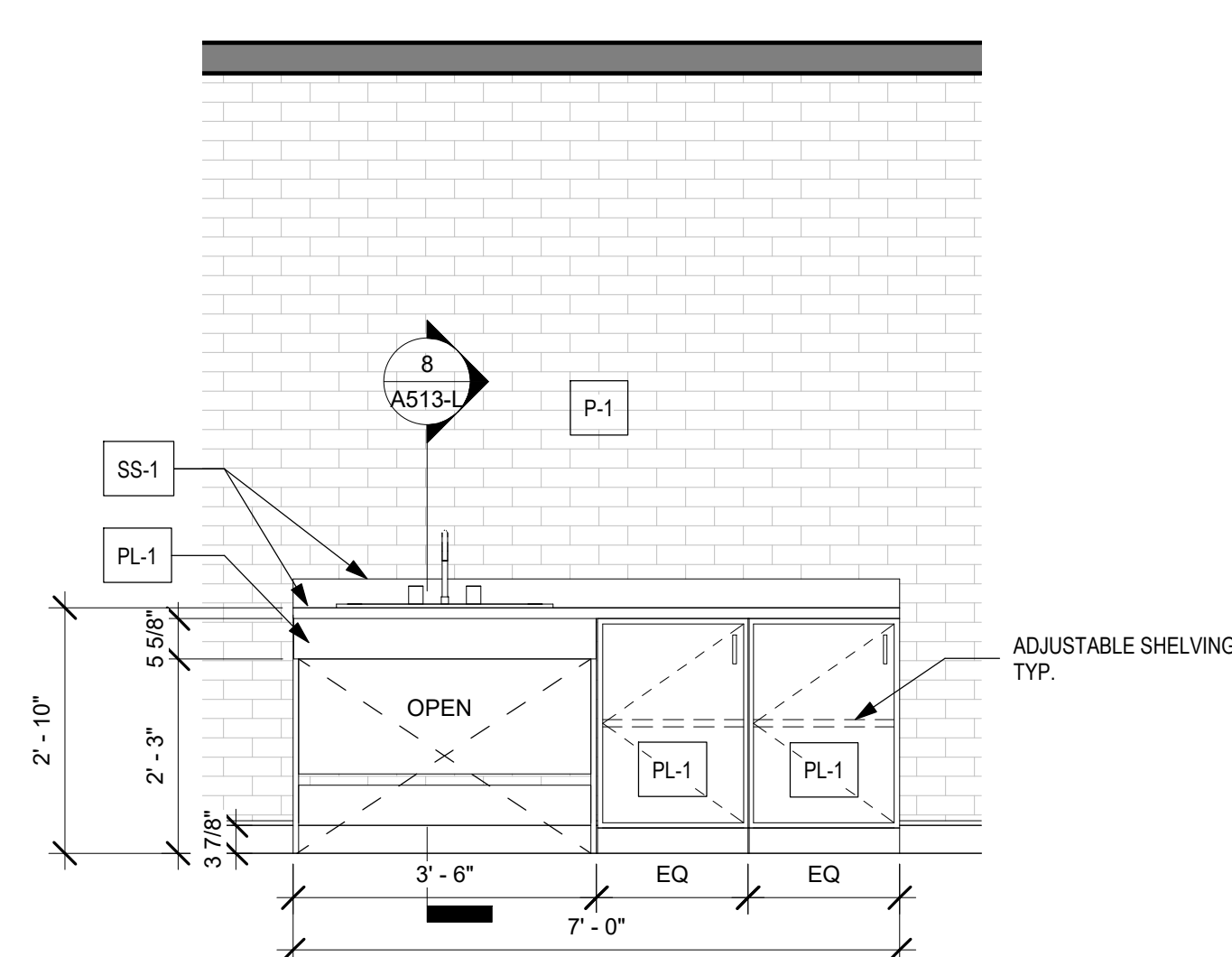
3 ENLARGED ELEVATION - STAFF KITCHEN LOOKING WEST
1/2" = 1'-0"



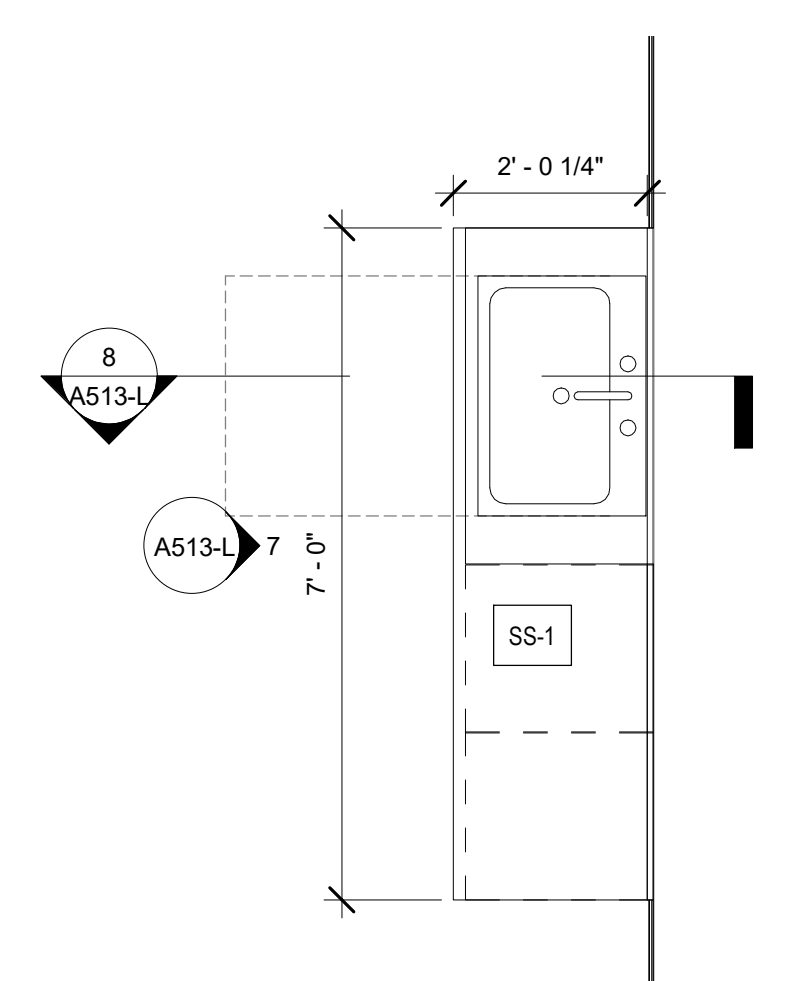
1 ENLARGED PLAN - STAFF KITCHEN
1/2" = 1'-0"



8 SECTION THROUGH MTG RM COUNTER AT SINK
1" = 1'-0"

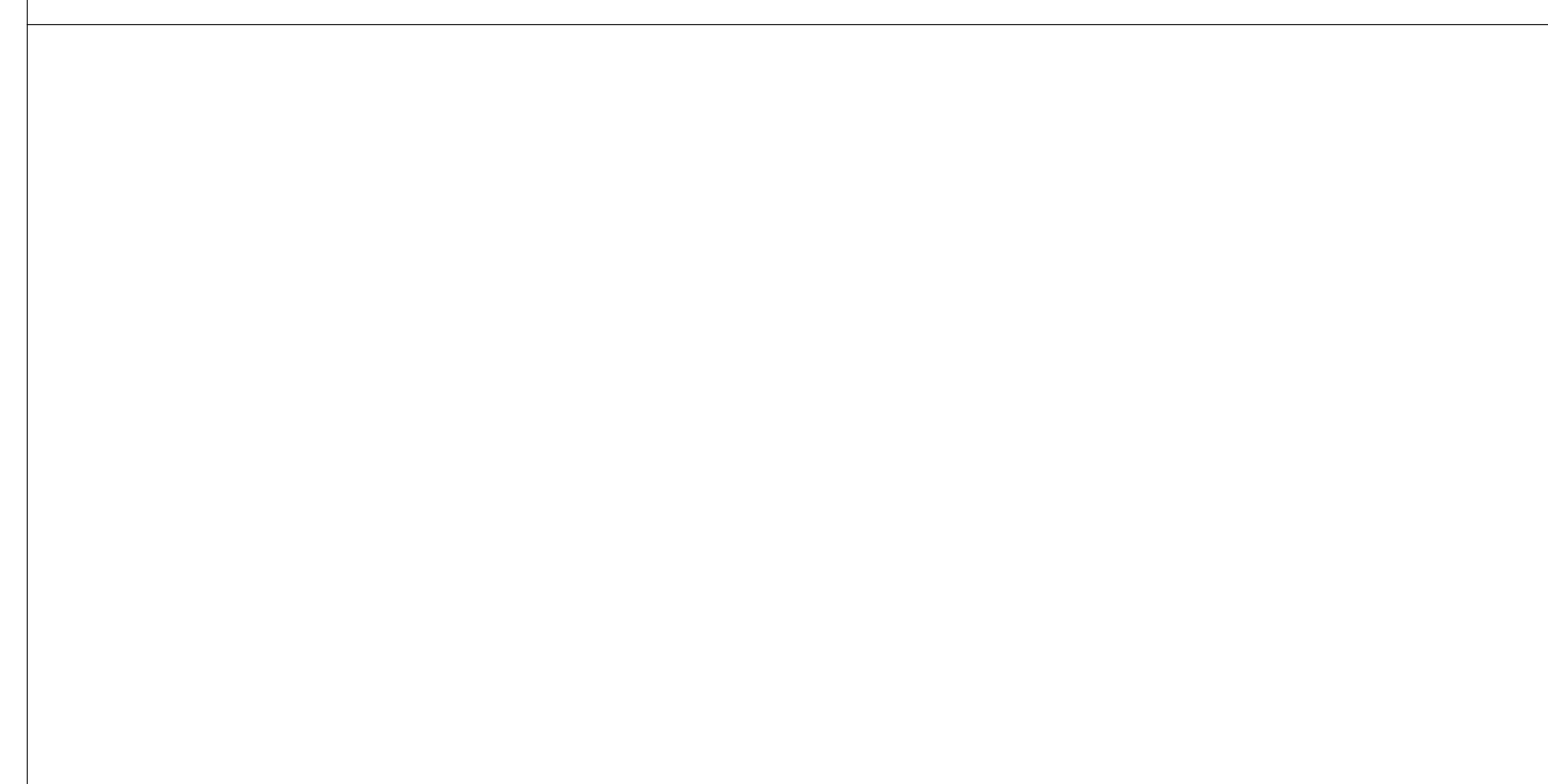


7 ENLARGED ELEVATION - MEETING ROOM SINK
1/2" = 1'-0"



6 ENLARGED PLAN - MEETING ROOM SINK
1/2" = 1'-0"

STAMP AREA



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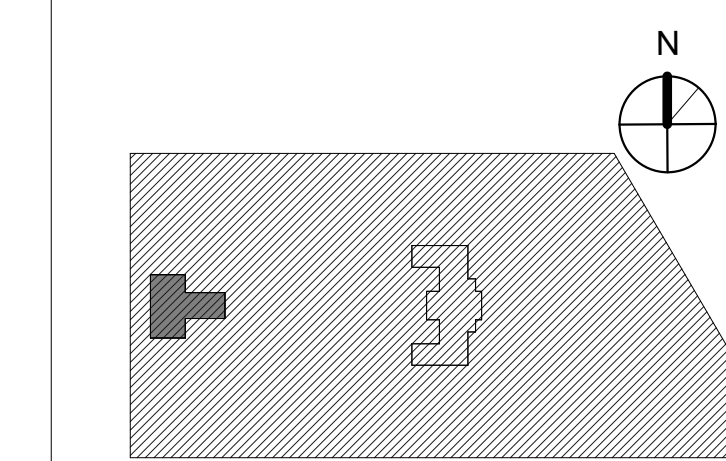


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PROJECT TITLE
**KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS**

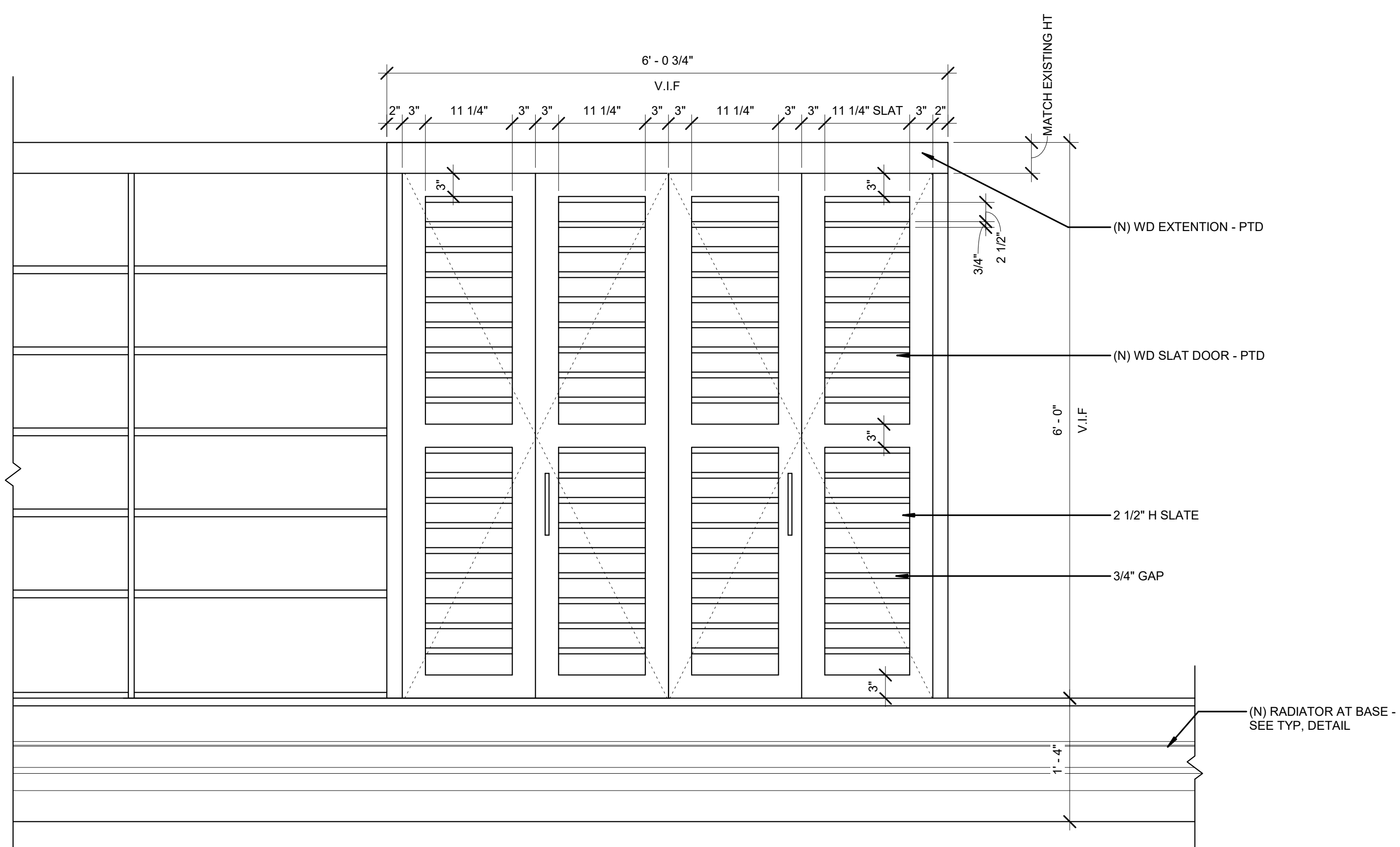
KEY PLAN



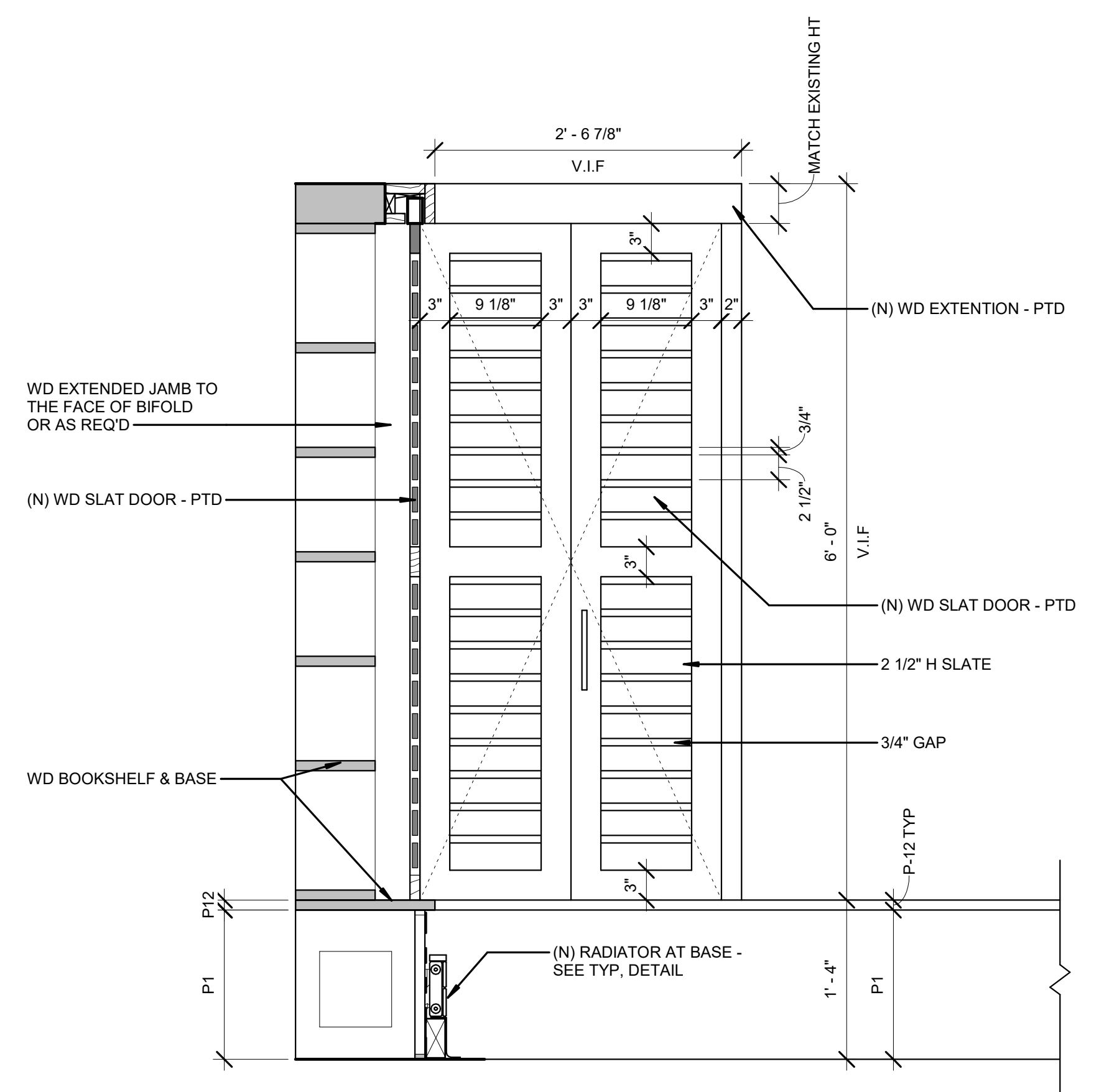
DRAWING TITLE
**MILLWORK - BIFOLD DOOR
DETAILS - ALT. NO.3**

PROJECT NO. 21070	DRAWING NO.
DATE 9/7/22	A514-L
SCALE As indicated	
DRAWN BY O.K.	
CHECKED BY D.B.	

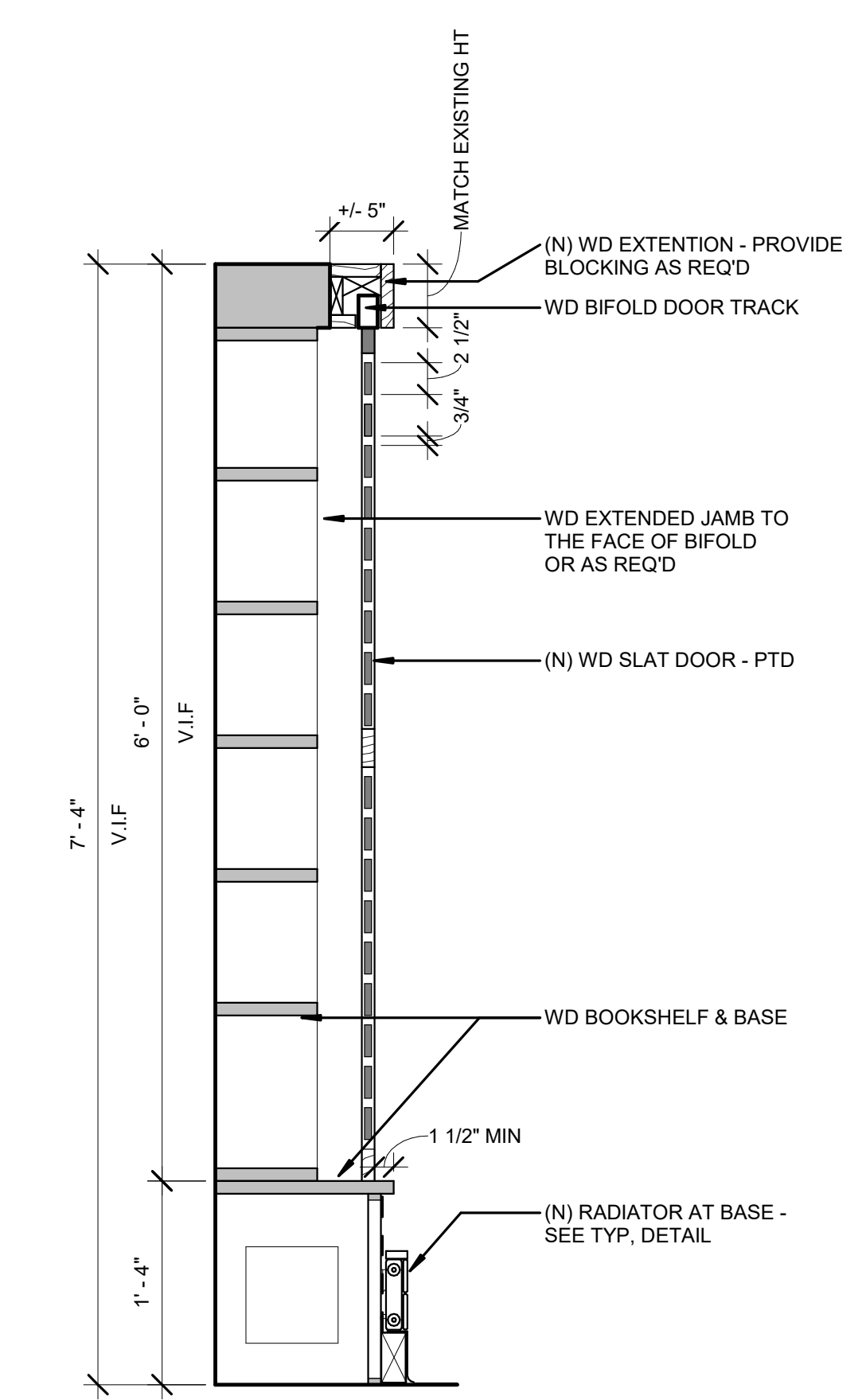
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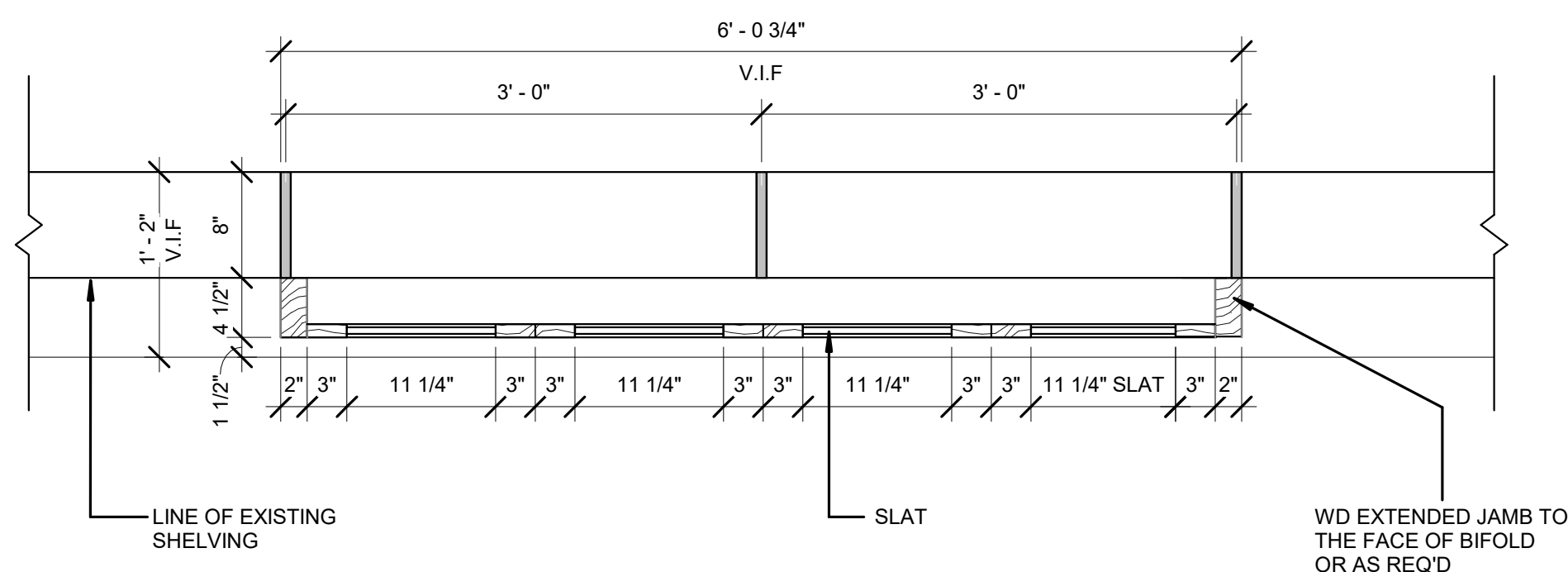
7. SHELVING DOOR FRONT READING PLAN ELEVATION
1" = 1'-0"



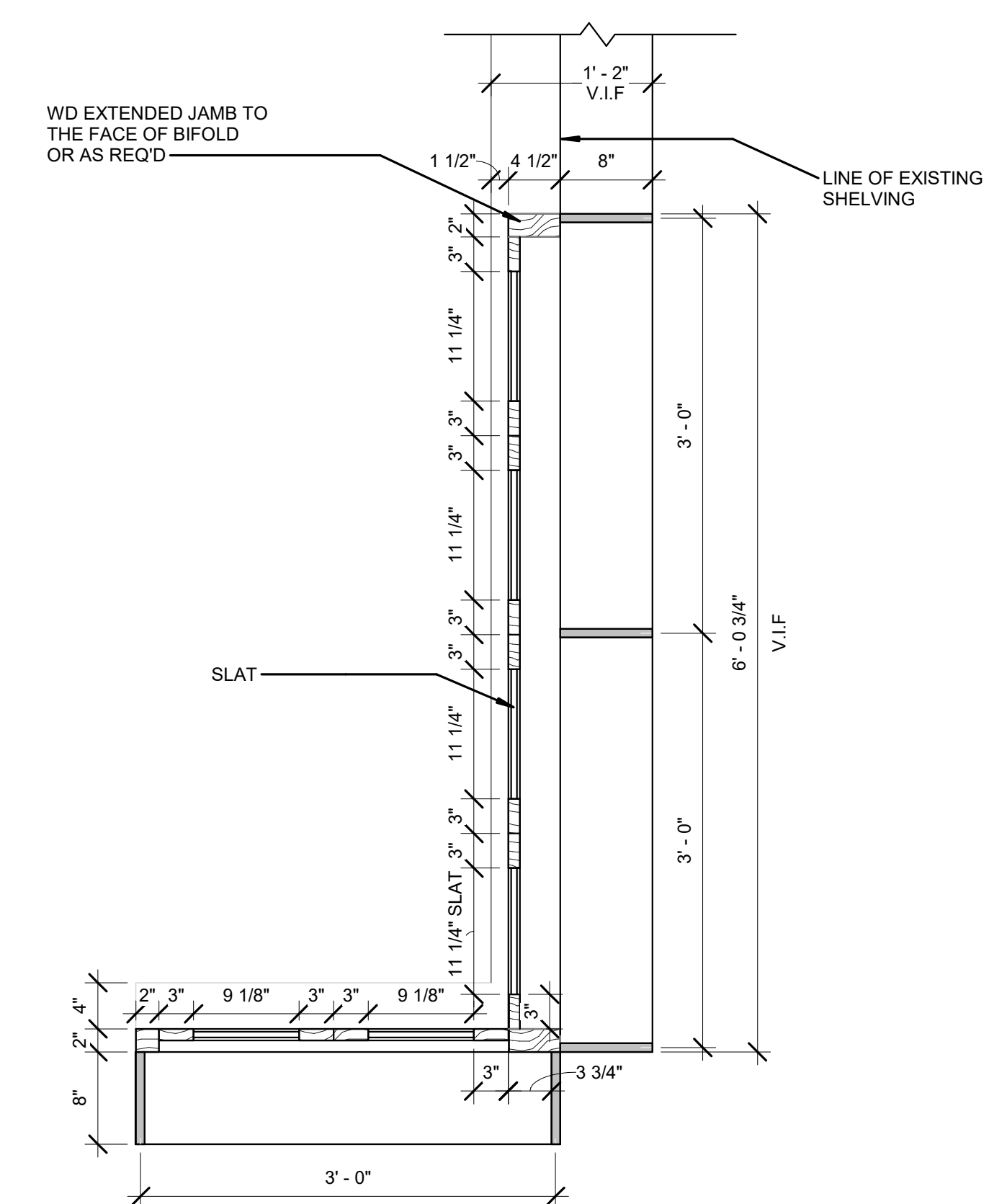
6. SHELVING DOOR REAR READING ELEVATION
1" = 1'-0"



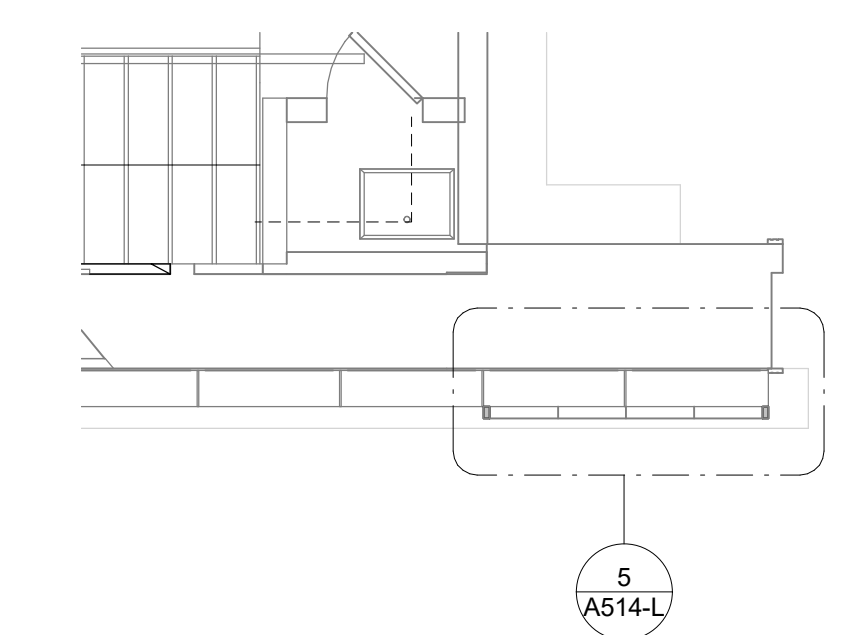
5. SHELVING DOOR SECTION
1" = 1'-0"



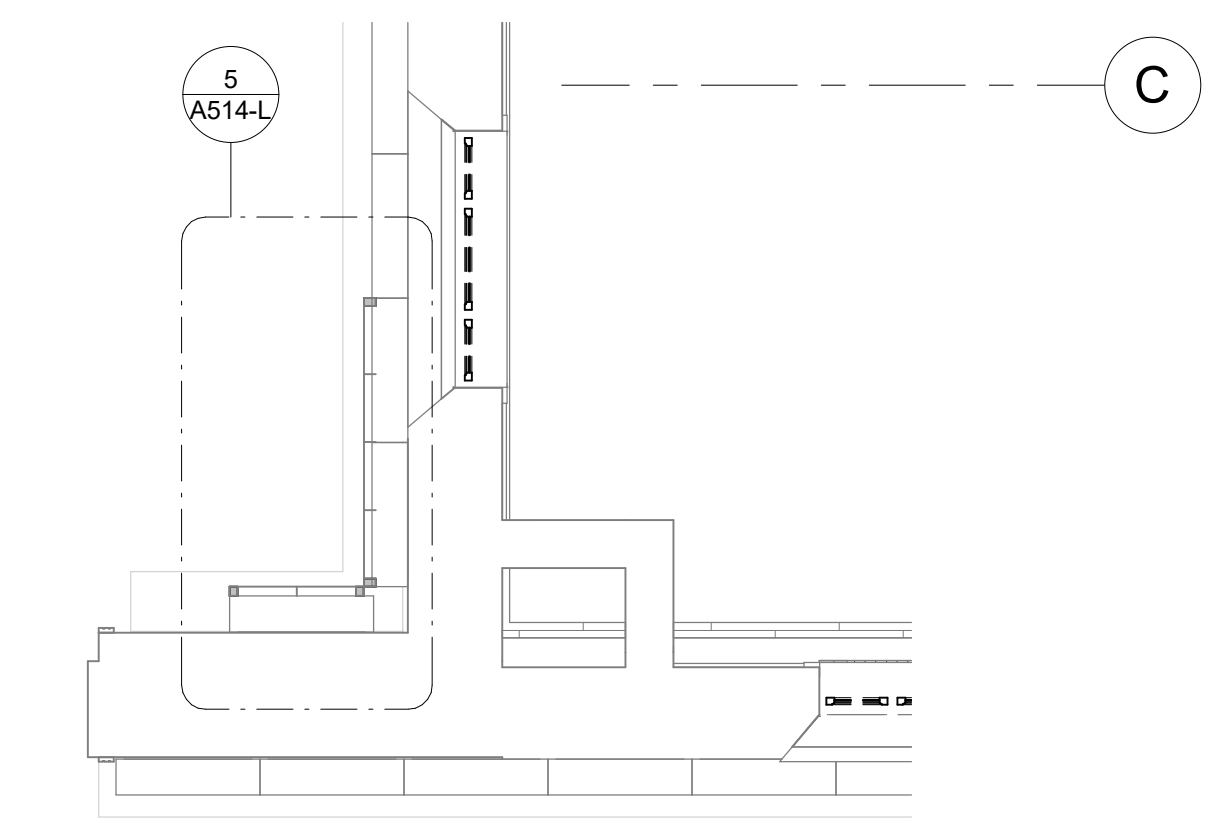
4. SHELVING DOOR FRONT READING PLAN
1" = 1'-0"



3. SHELVING DOOR REAR READING PLAN
1" = 1'-0"



2. ENLARGE PLAN - SHELVING FRONT READING ROOM
1/4" = 1'-0"



1. ENLARGED PLAN - SHELVING REAR READING ROOM
1/4" = 1'-0"

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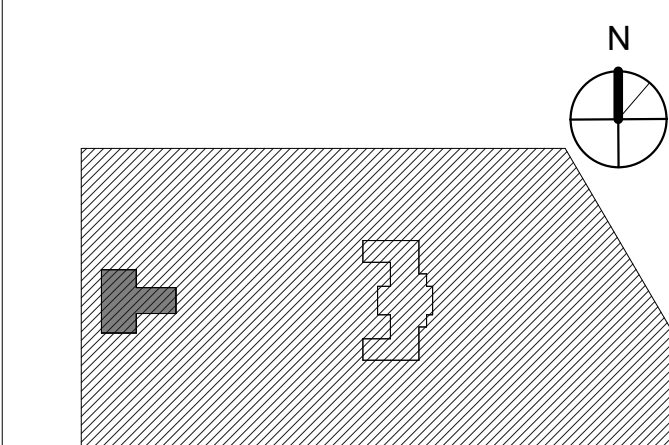


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RENOVATIONS AND SITE
IMPROVEMENTS**

KEY PLAN



DRAWING TITLE
ROOF ACCESS DETAILS

PROJECT NO.
21070

DATE
9/7/22

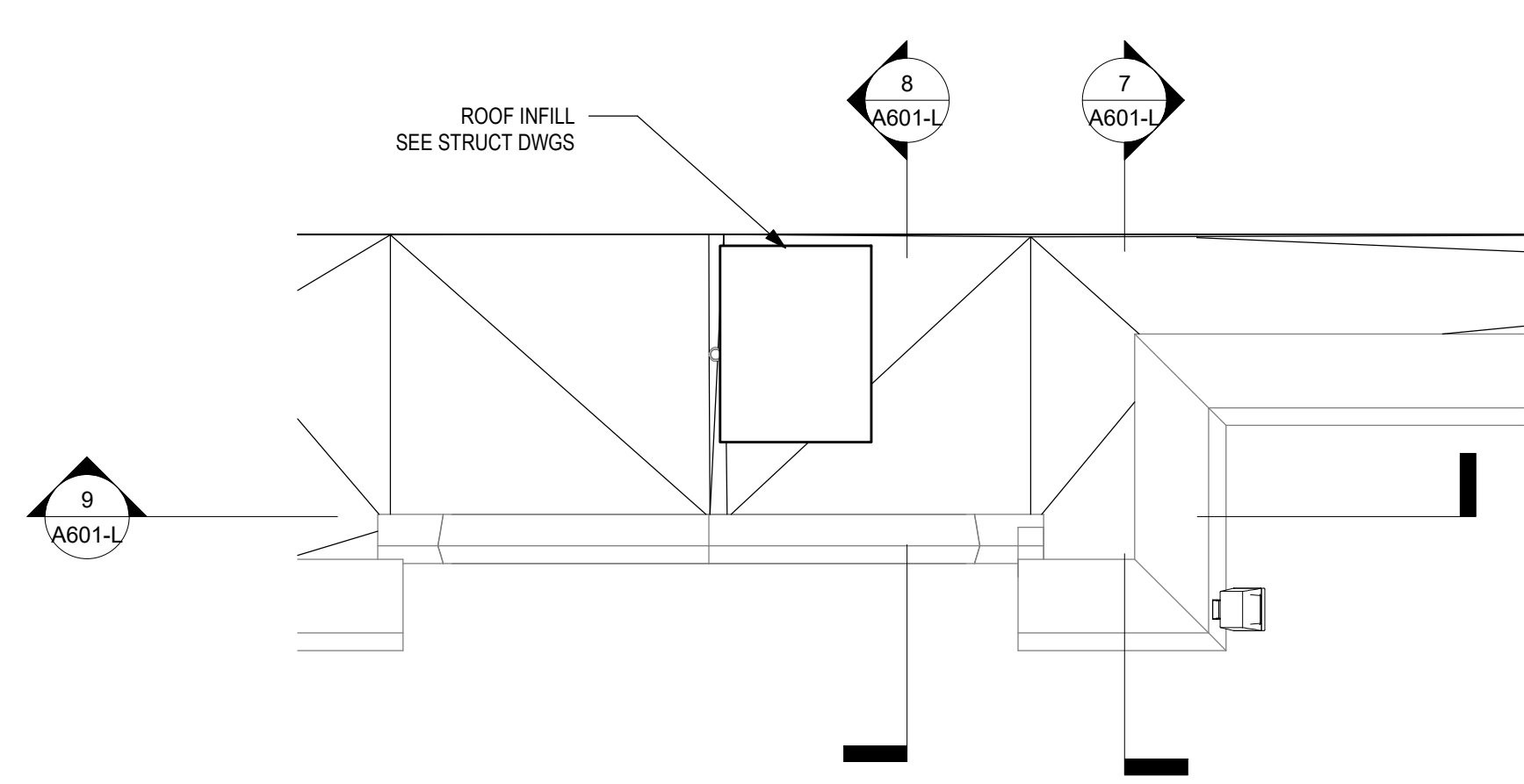
SCALE
As Indicated

DRAWN BY
A.F.

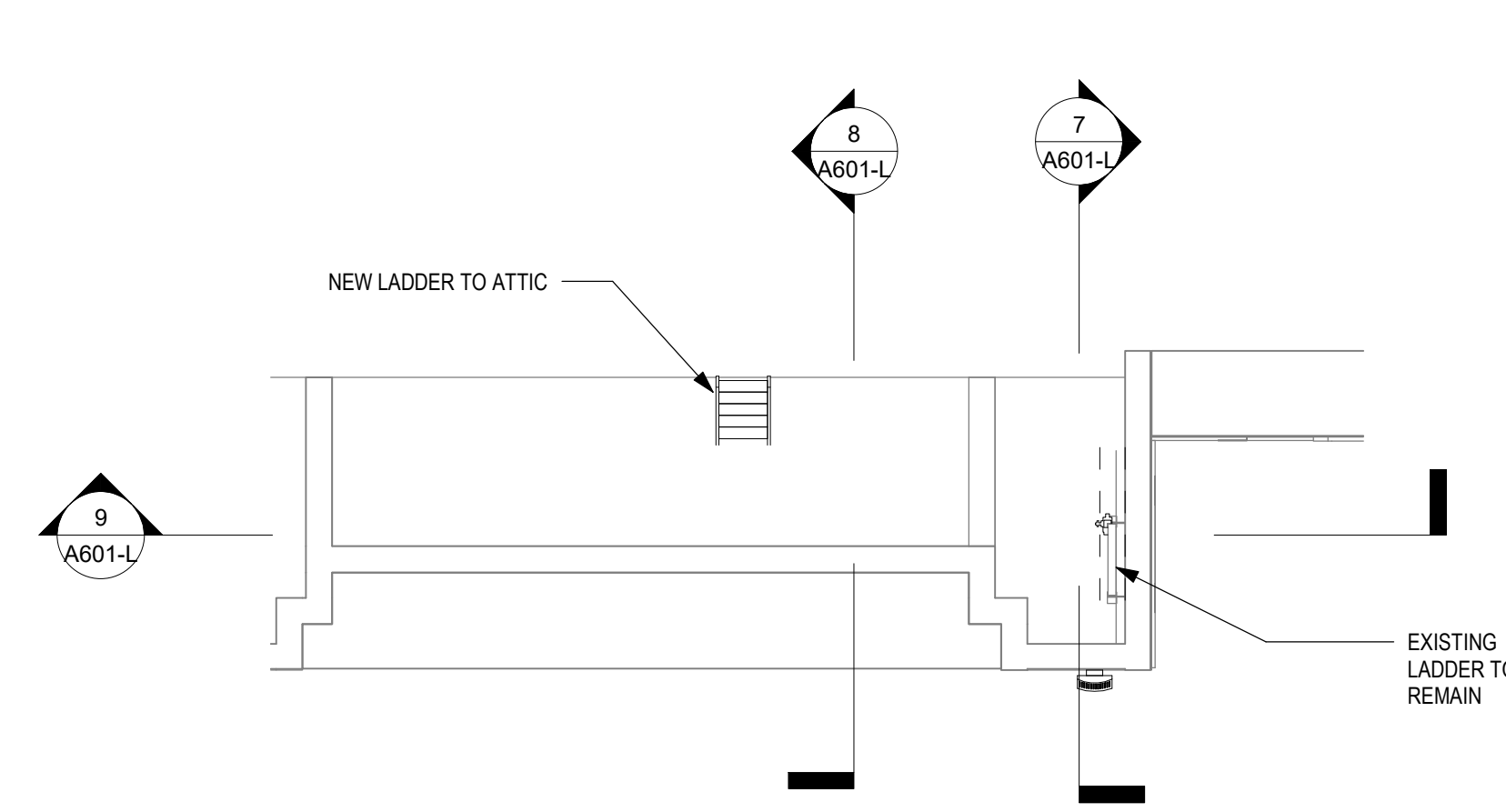
CHECKED BY
D.B.

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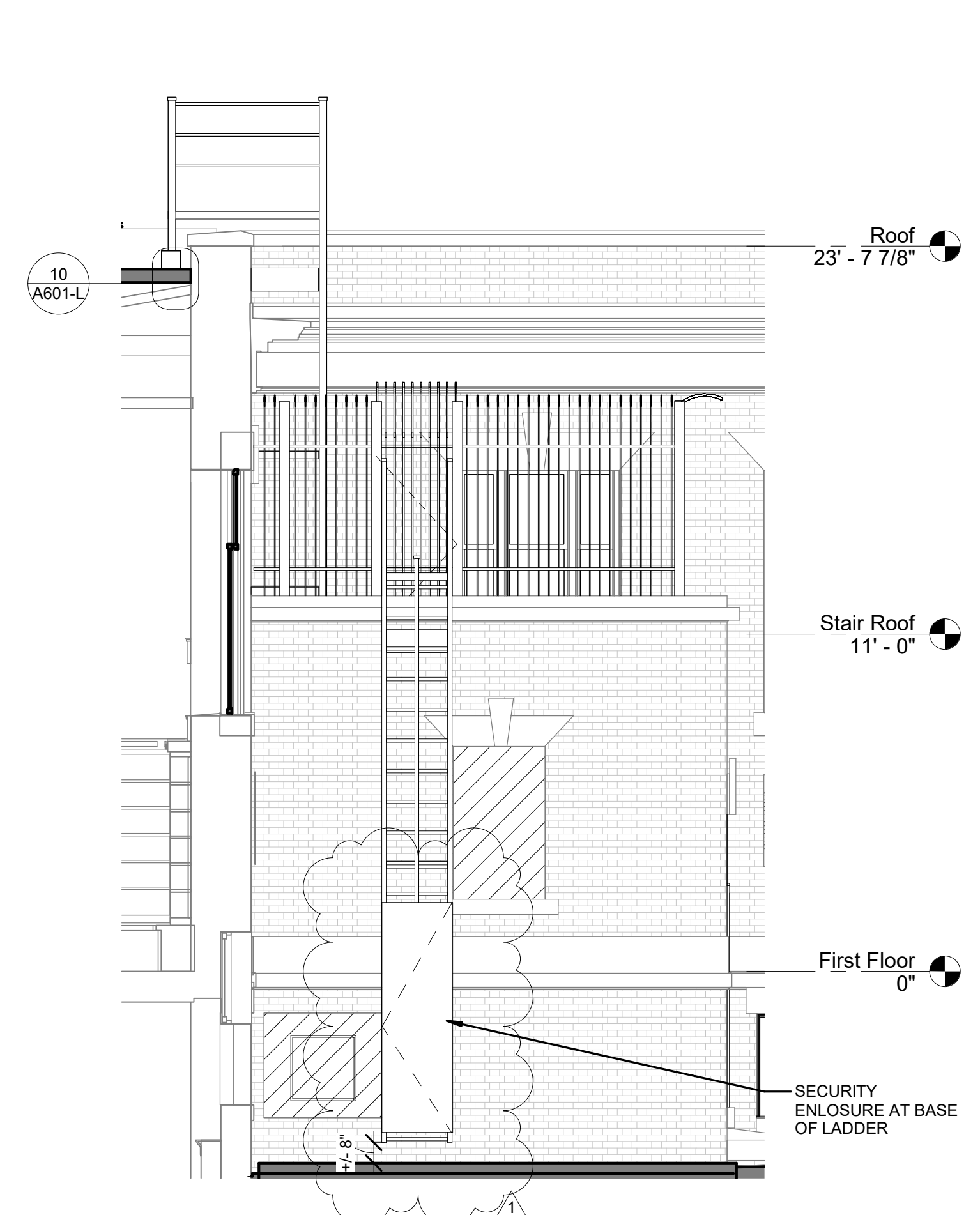
DRAWING NO.
A601-L



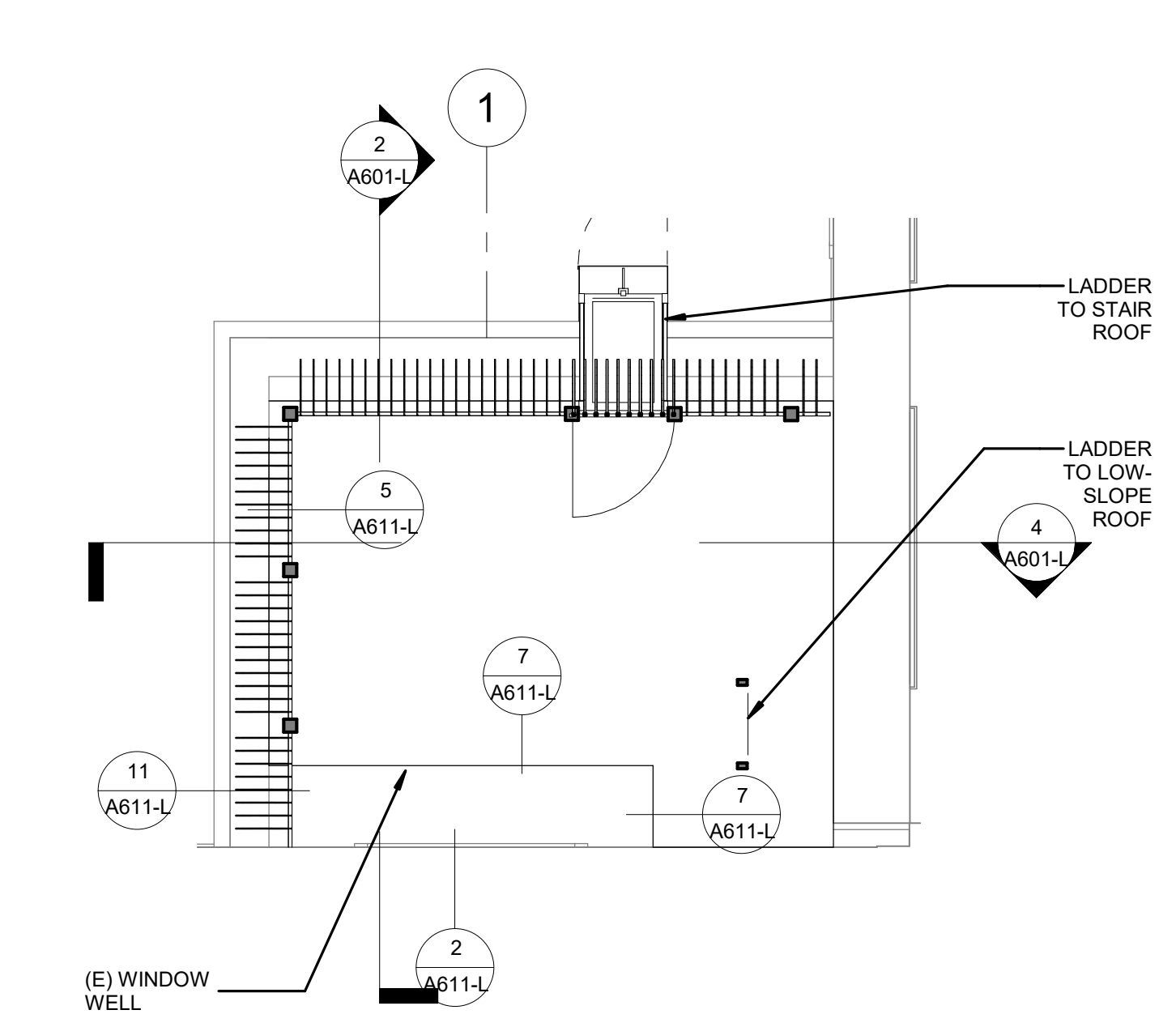
6 ROOF HATCH DETAIL
1/4" = 1'-0"



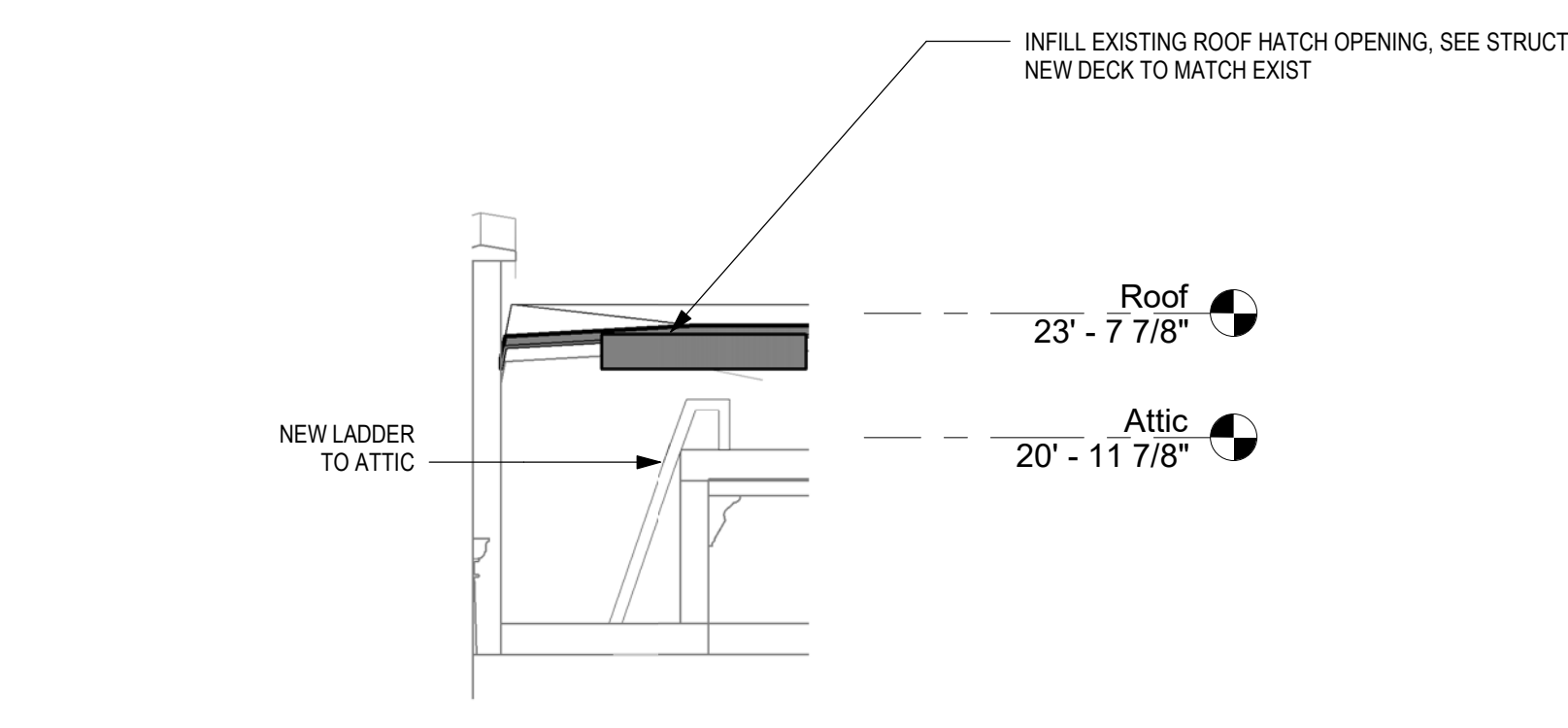
5 ATTIC FLOOR HATCH DETAIL
1/4" = 1'-0"



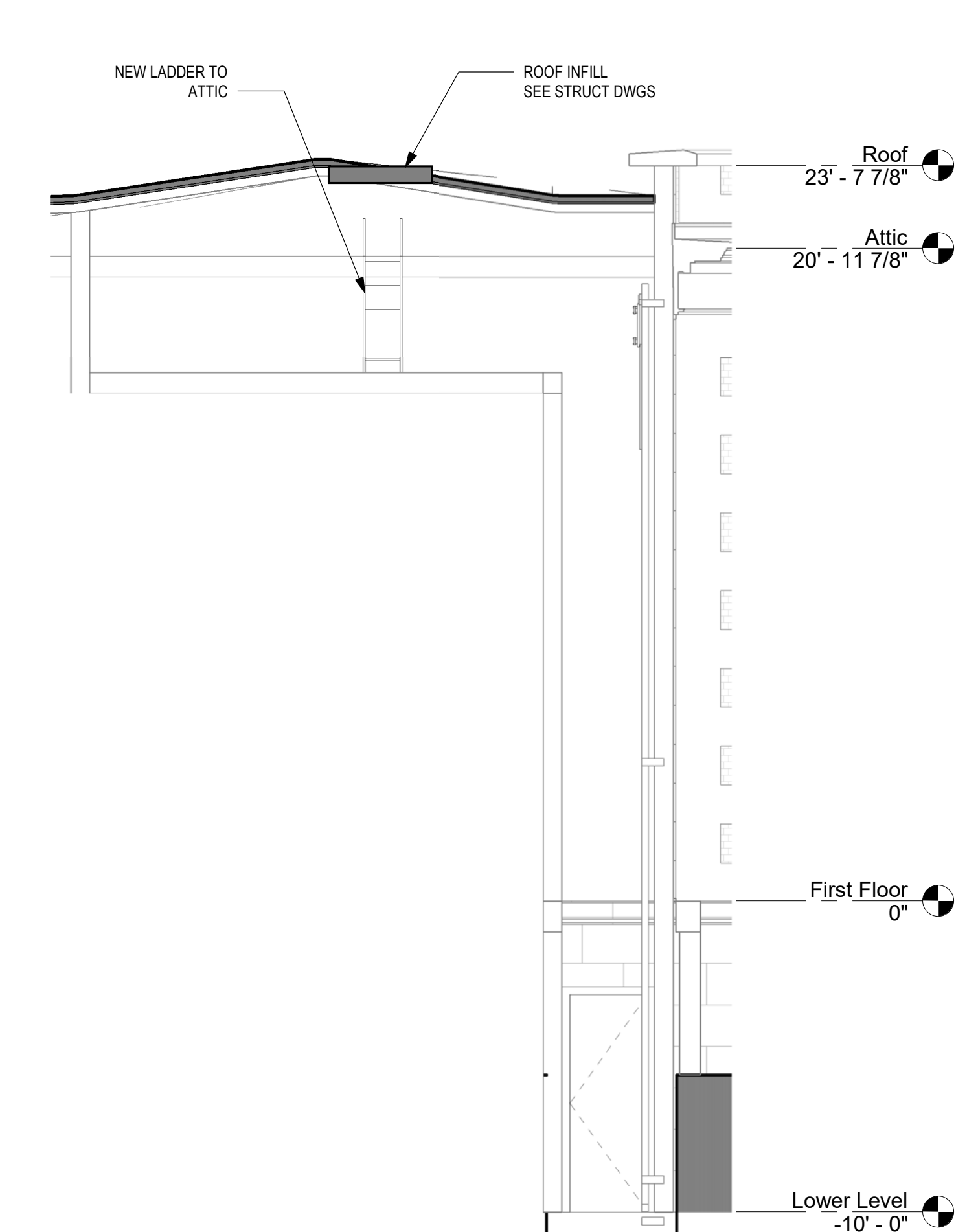
3 ELEVATION AT EXTERIOR ROOF ACCESS LADDER
1/4" = 1'-0"



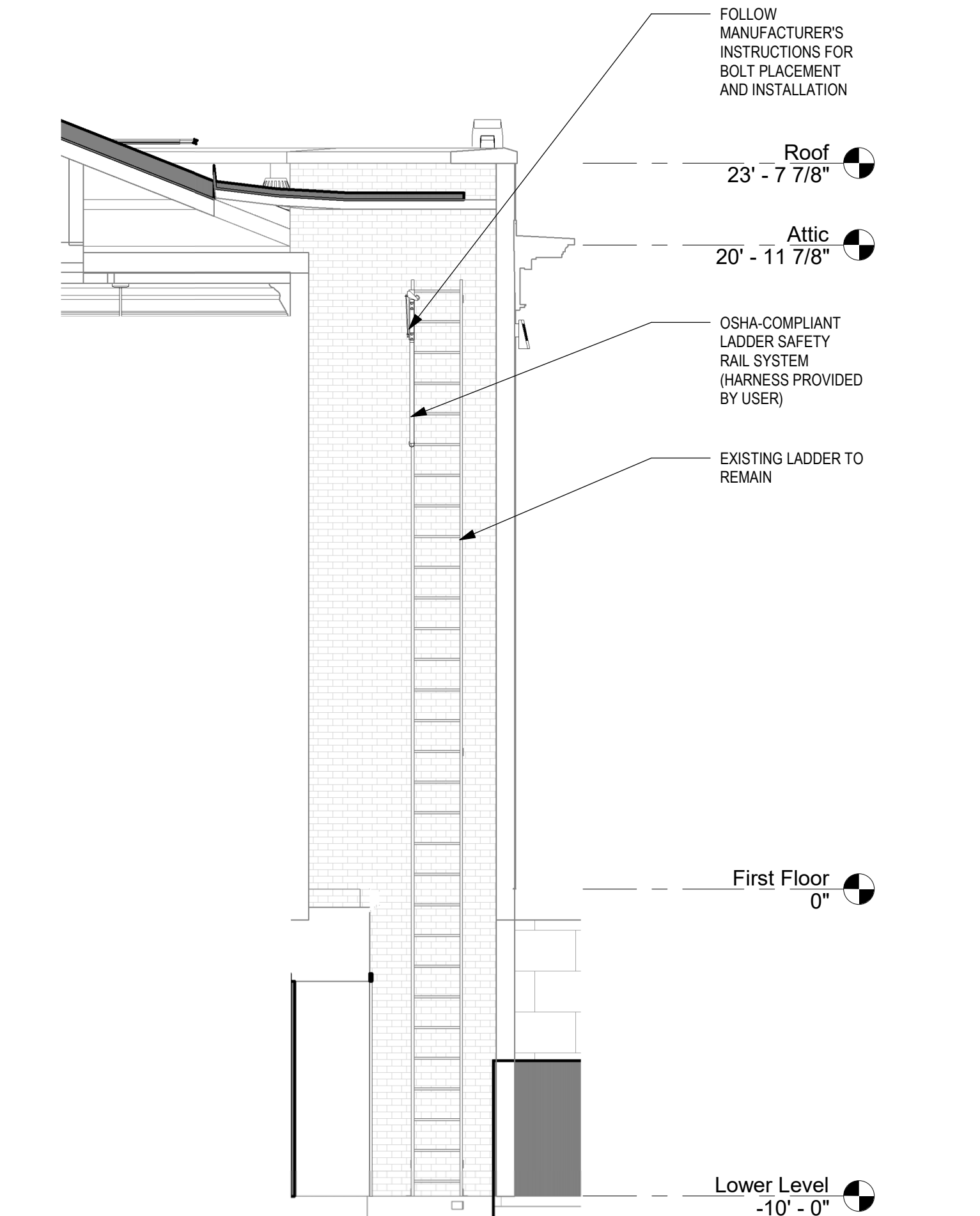
1 PLAN AT STAIR ROOF
1/4" = 1'-0"



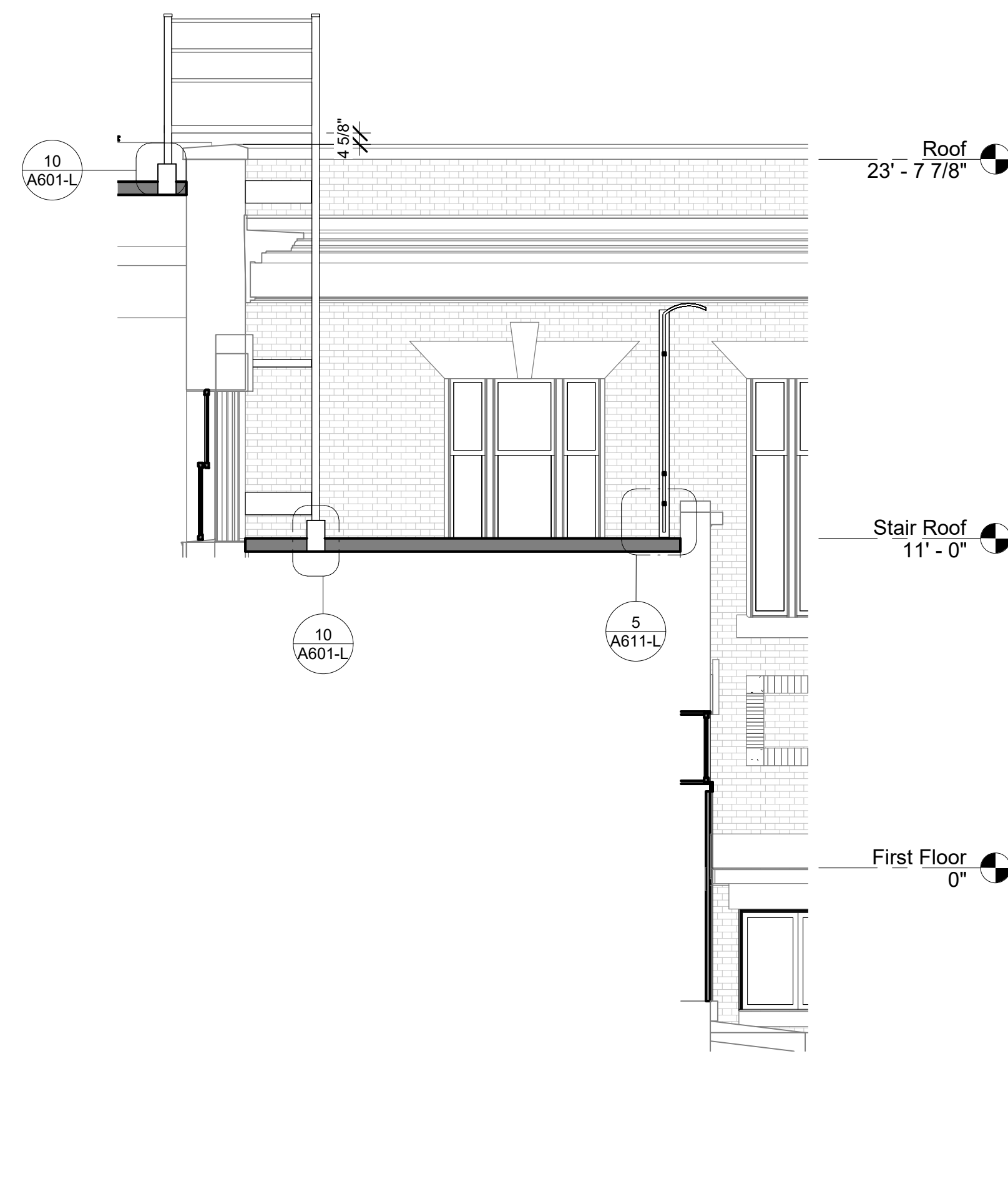
8 SECTION AT ROOF ACCESS HATCH INFILL
1/4" = 1'-0"



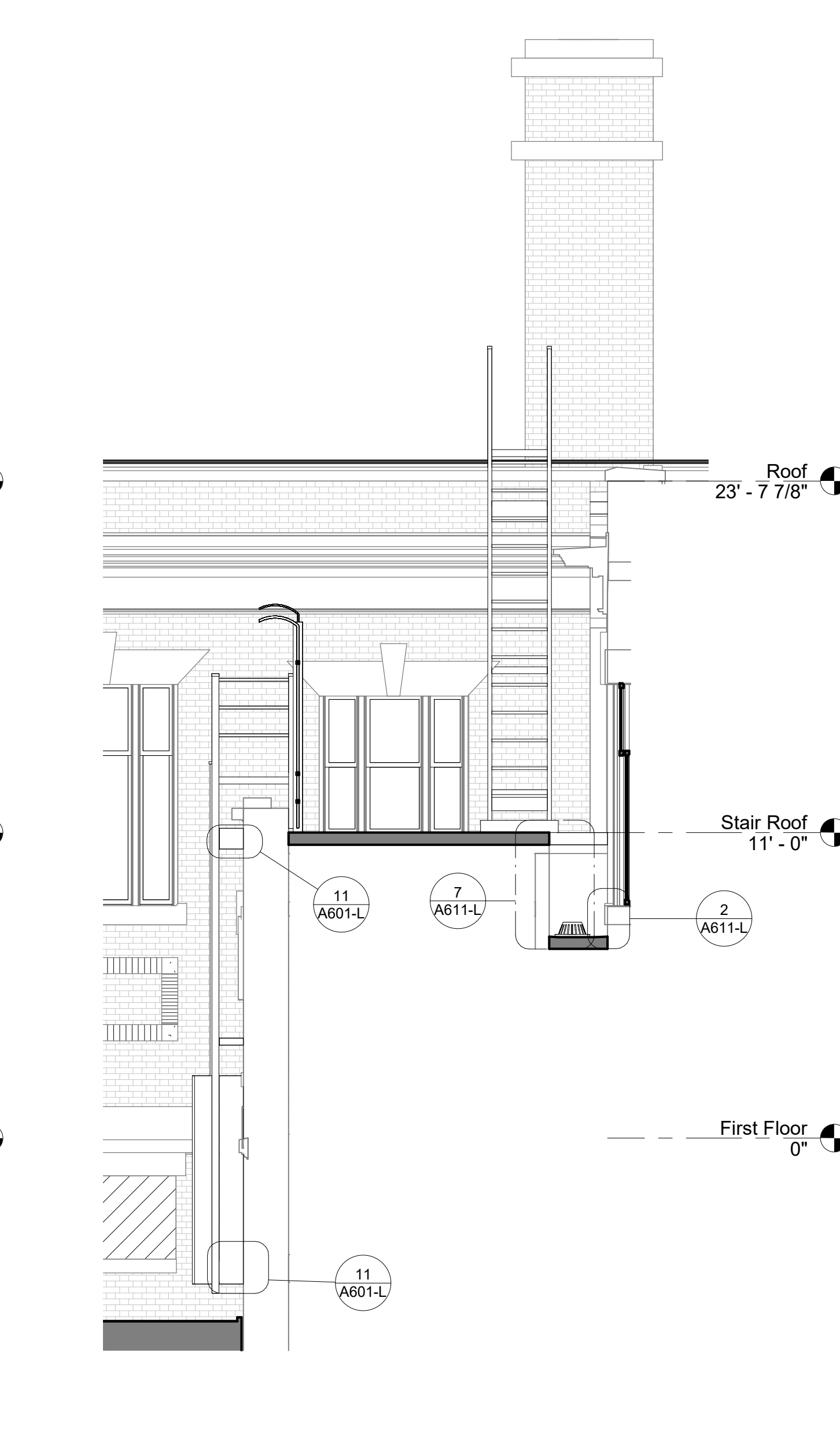
9 SECTION AT ROOF ACCESS
1/4" = 1'-0"



7 SECTION AT ATTIC FLOOR ACCESS LADDER
1/4" = 1'-0"

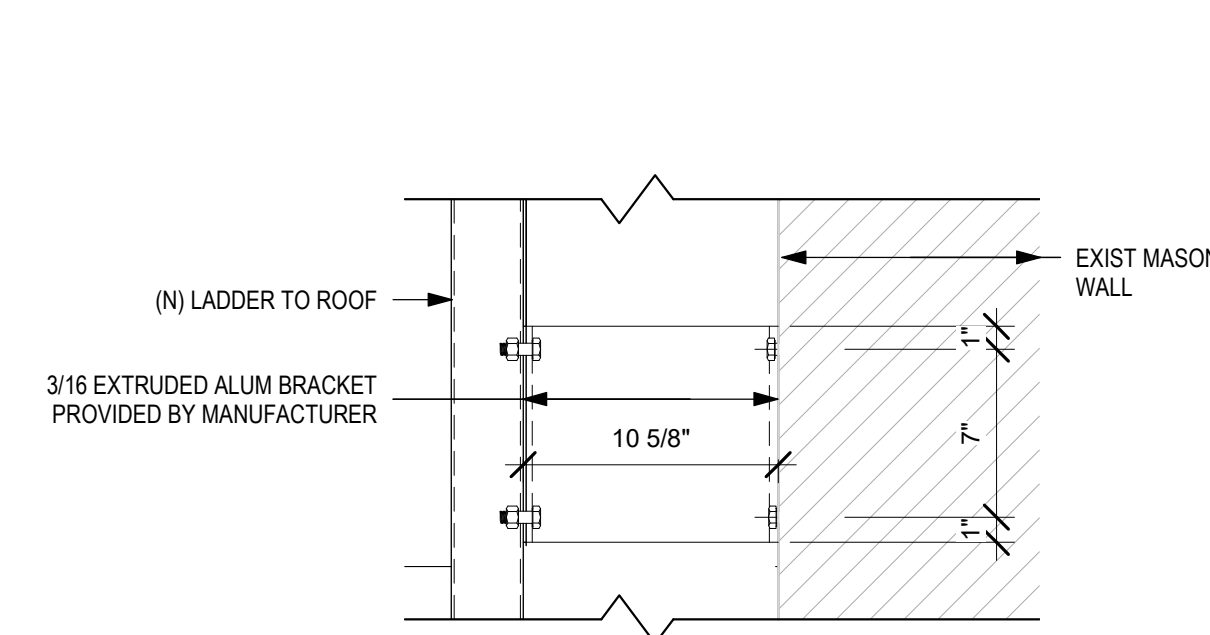


4 SECTION AT EXTERIOR ROOF ACCESS LADDER TO HIGH ROOF
1/4" = 1'-0"

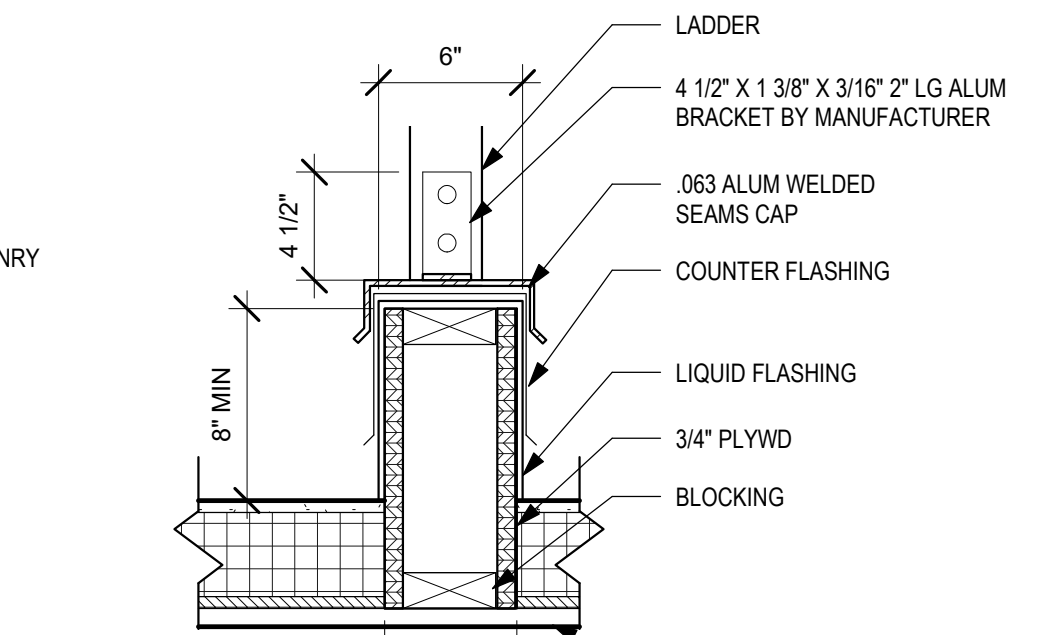


2 SECTION AT EXTERIOR ROOF ACCESS LADDER
1/4" = 1'-0"

STAMP AREA



11 DETAIL @ ROOF LADDER WALL MOUNT
1 1/2" = 1'-0"



10 DETAIL @ ROOF LADDER CURB
1 1/2" = 1'-0"

REVISIONS

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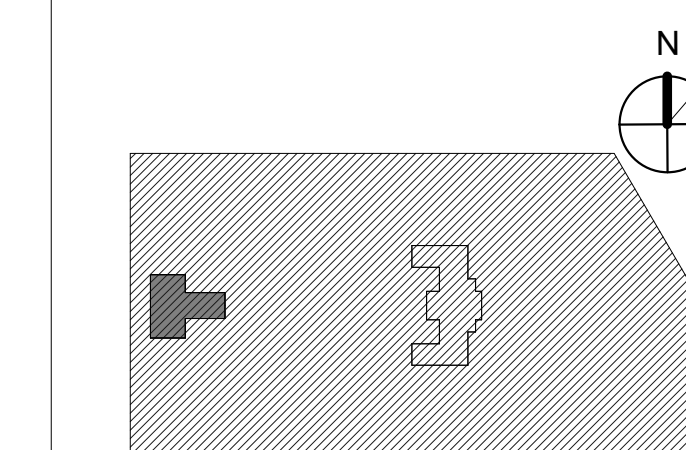


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PROJECT TITLE
**KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS**

KEY PLAN



ROOF DETAILS

PROJECT NO.
21070

DATE
9/7/22

SCALE
As indicated

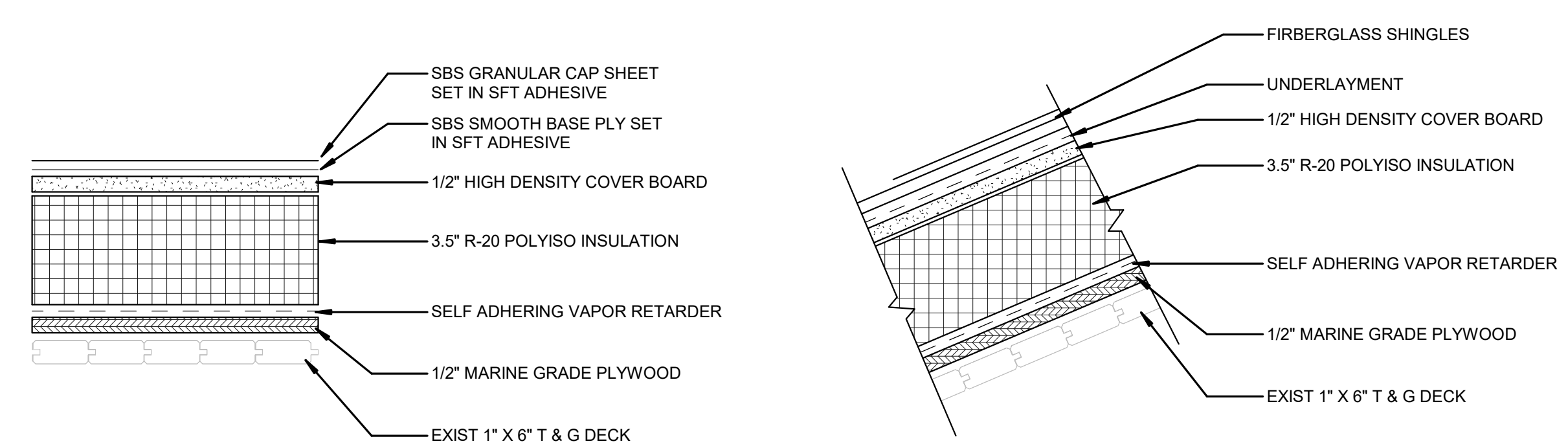
DRAWN BY
A.F.

CHECKED BY
D.B.

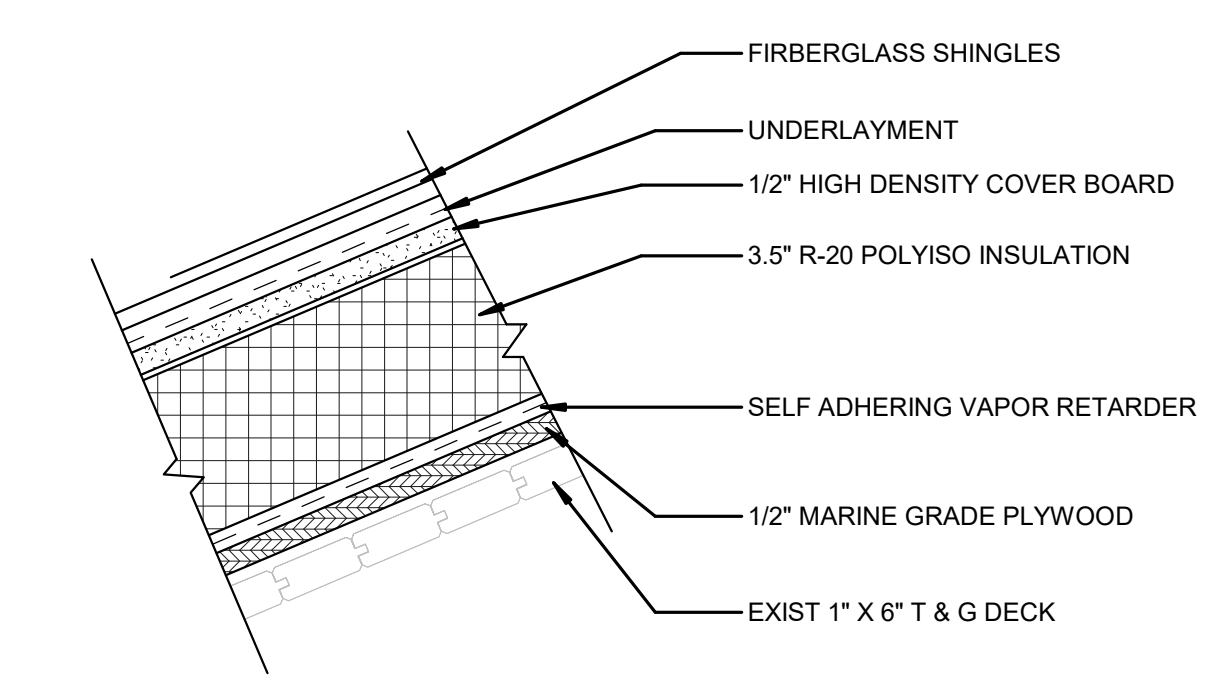
DRAWING NO.

A611-L

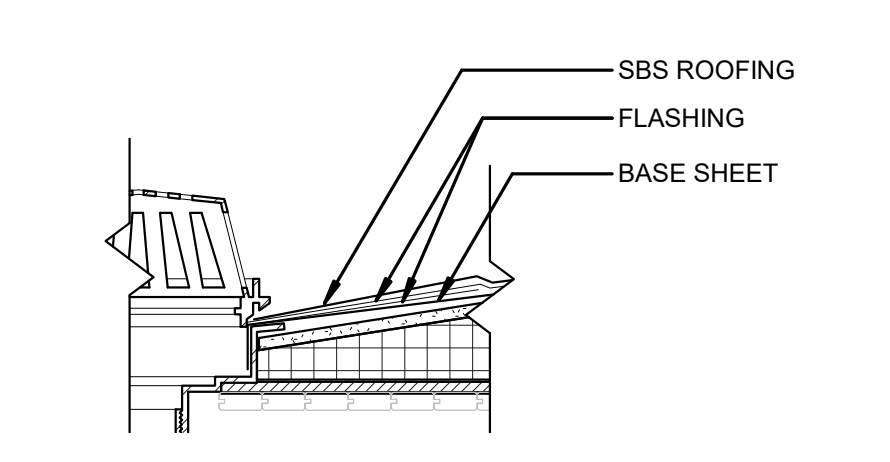
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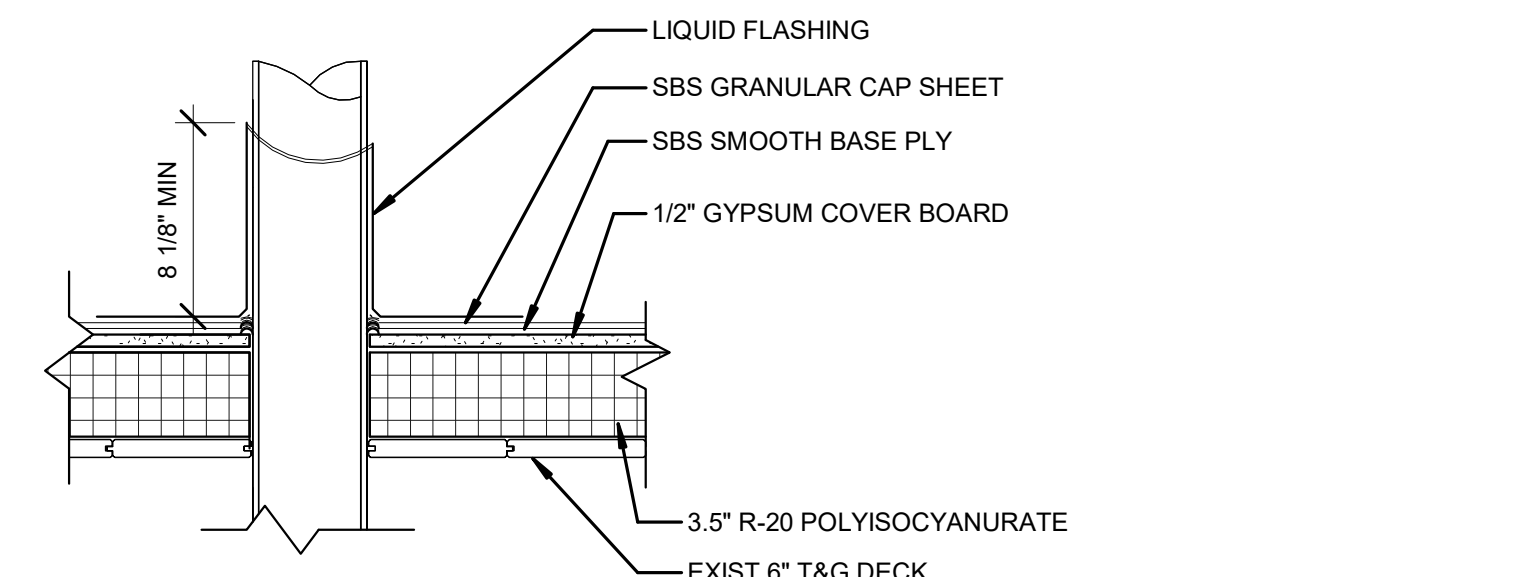
6 TYP ROOF ASSEMBLY - SBS MEMBRANE - R2.5
3" = 1'-0"



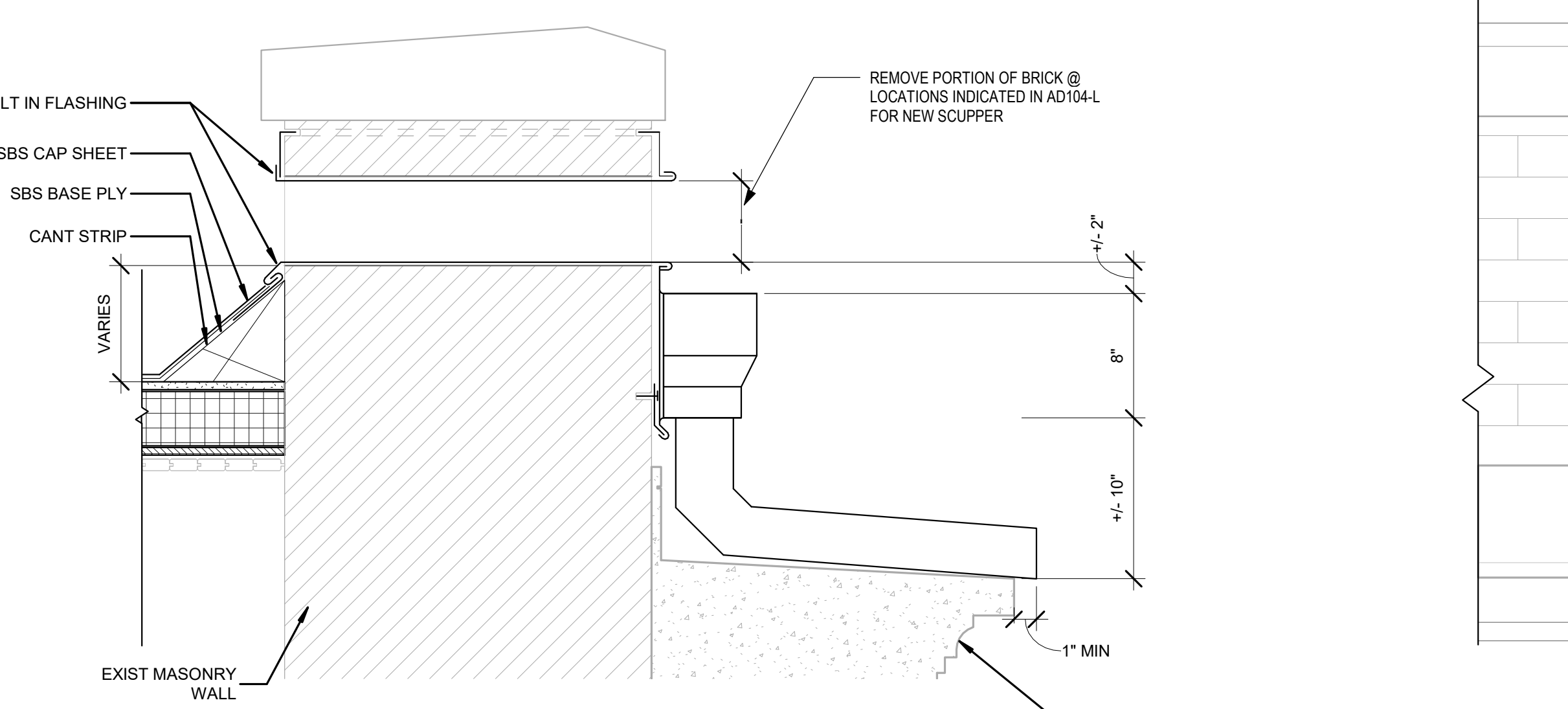
15 TYP ROOF ASSEMBLY - SHINGLE - R1
3" = 1'-0"



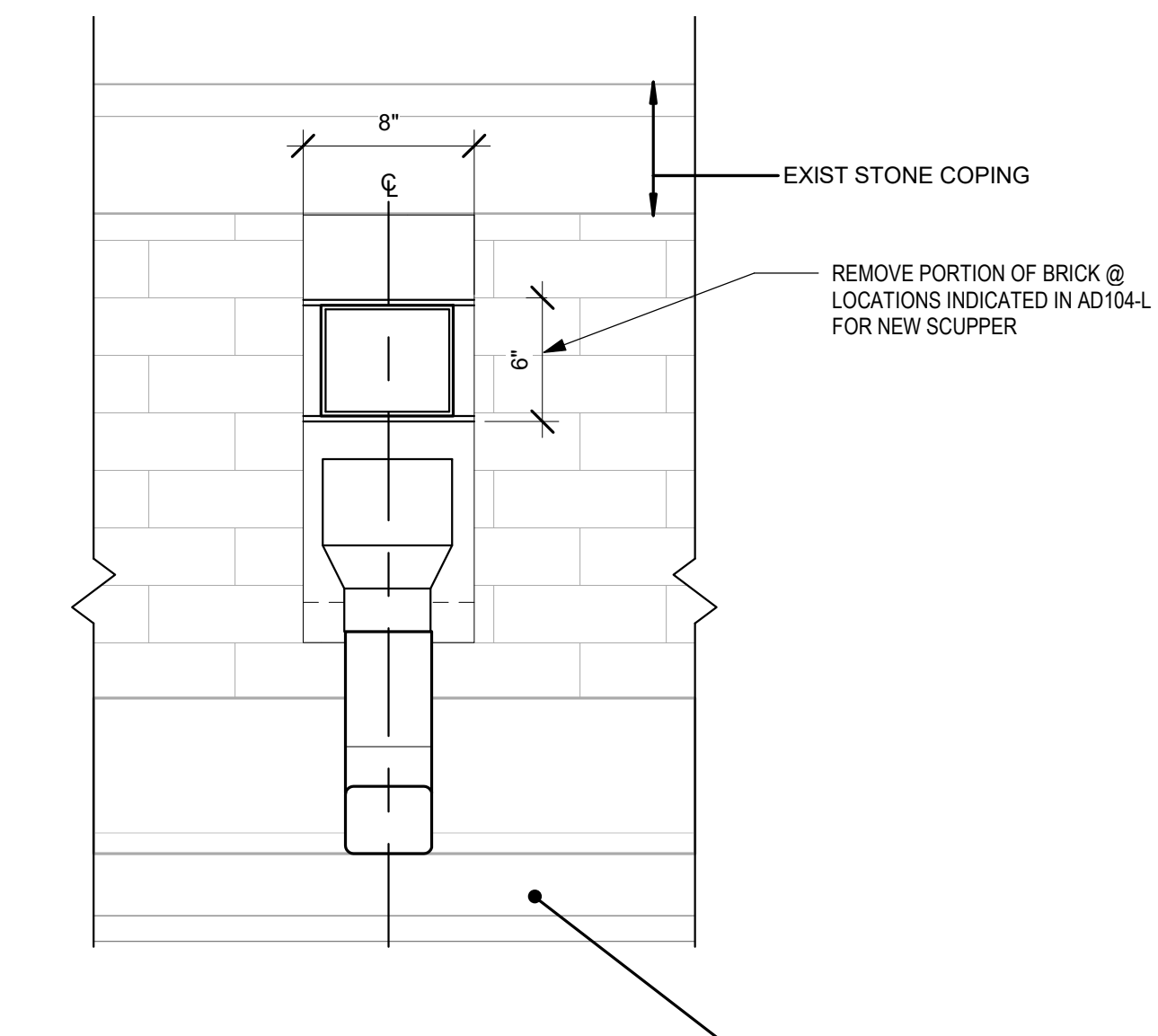
3 DETAIL @ ROOF DRAIN
1 1/2" = 1'-0"



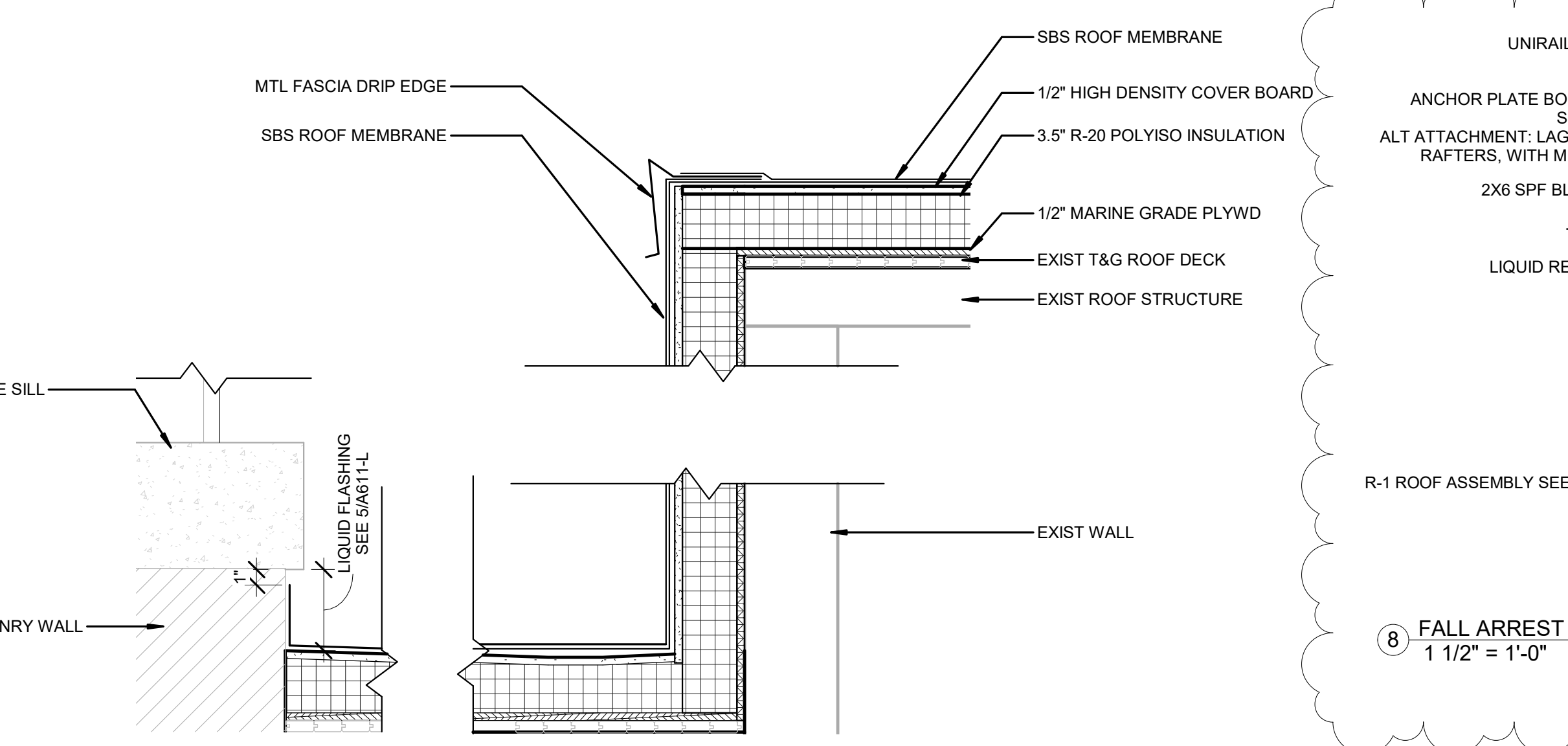
4 DETAIL @ LOW SLOPE ROOF VENT PIPE FLASHING
1 1/2" = 1'-0"



9 Roof Detail @ SCUPPER
1 1/2" = 1'-0"

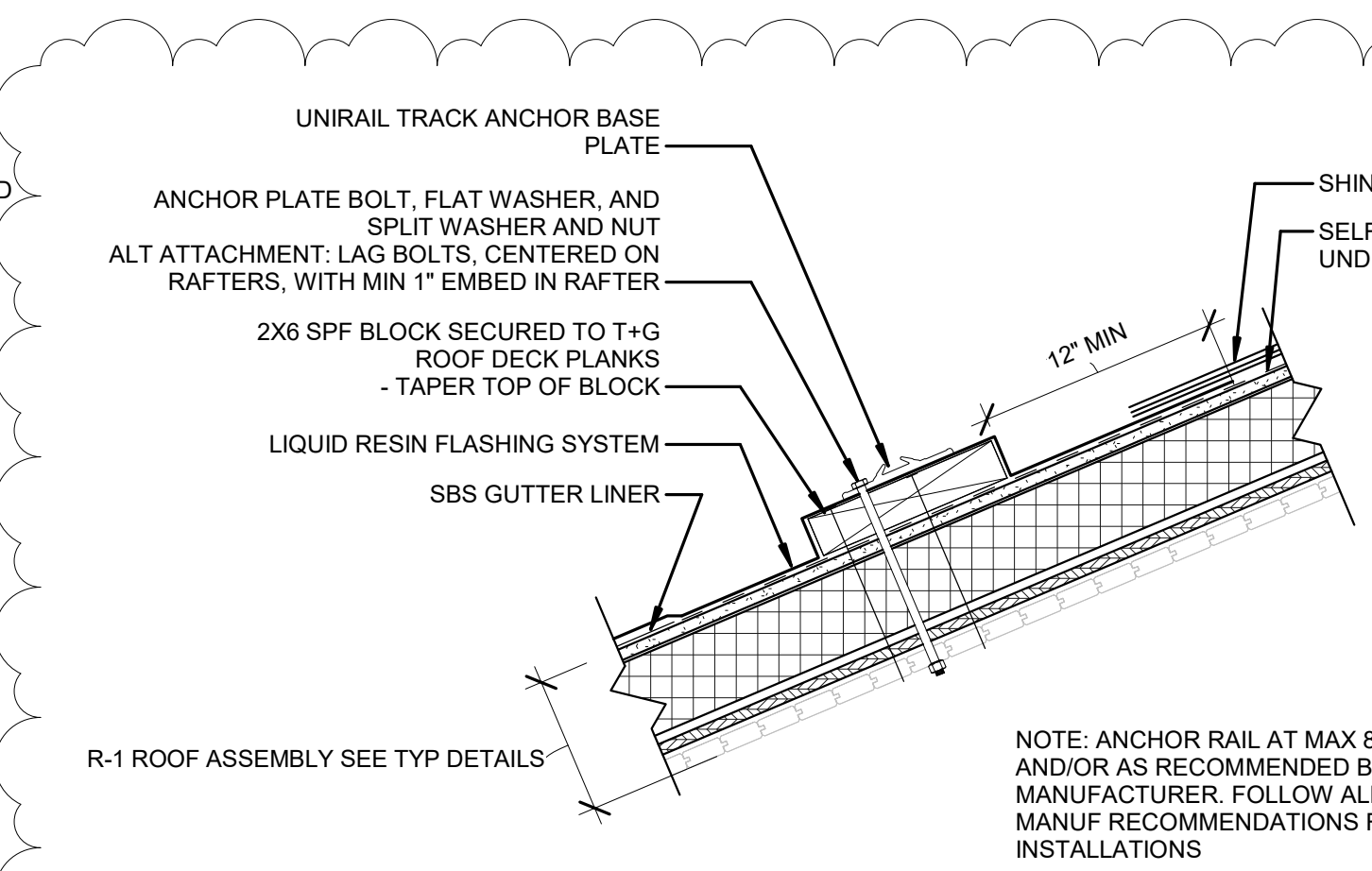


14 SCUPPER ELEV DETAIL
1 1/2" = 1'-0"

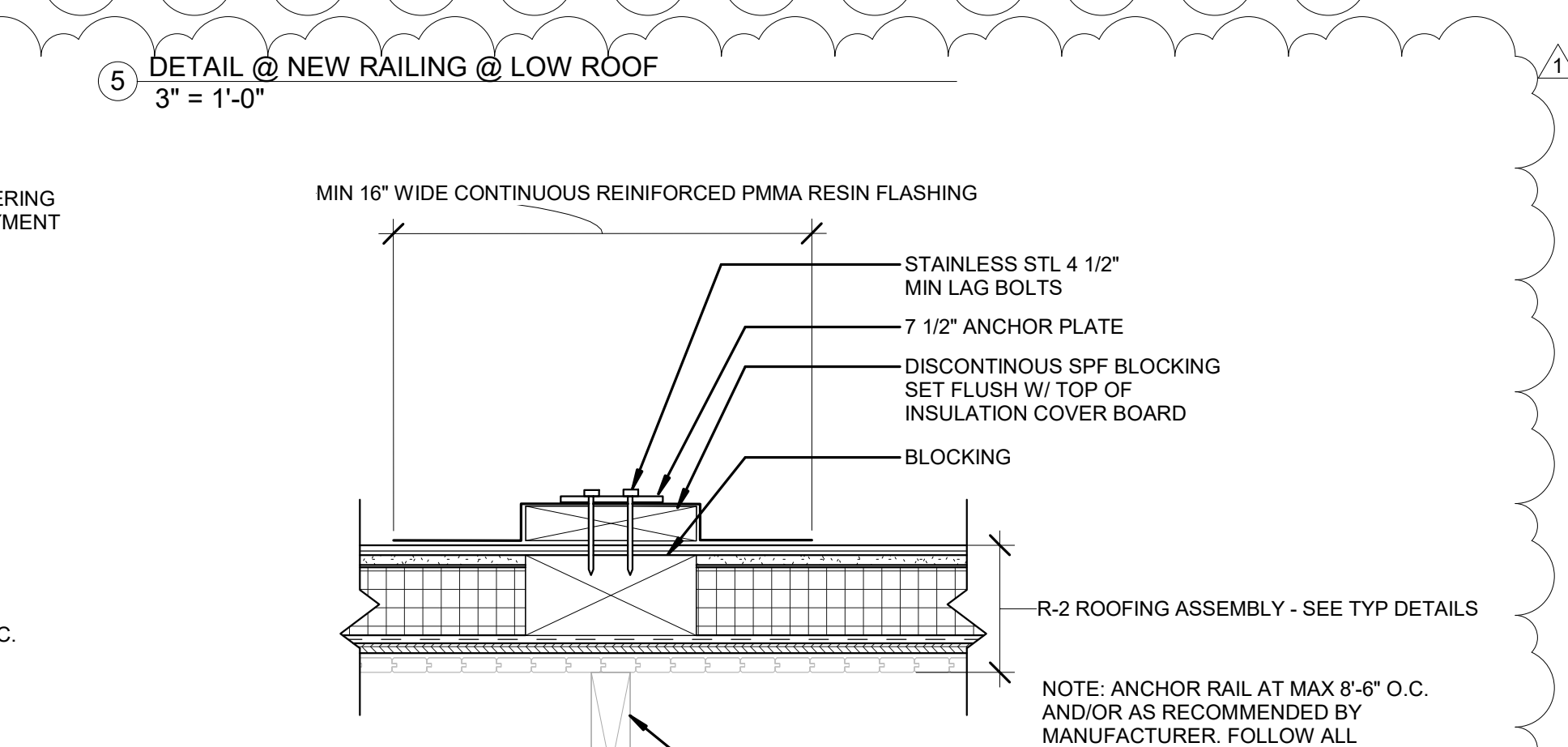


2 DTL @ ROOF WELL - WINDOW
1 1/2" = 1'-0"

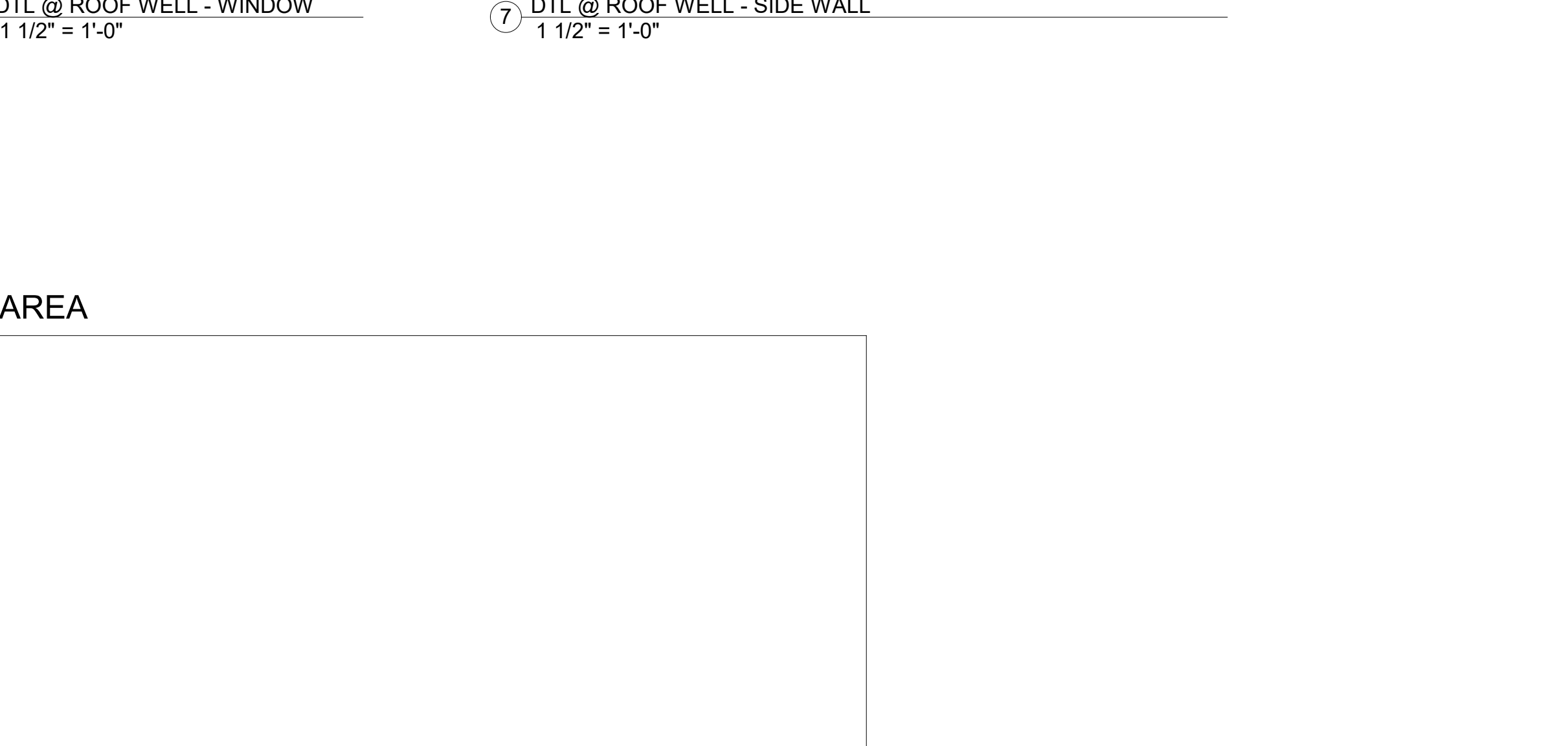
7 DTL @ ROOF WELL - SIDE WALL
1 1/2" = 1'-0"



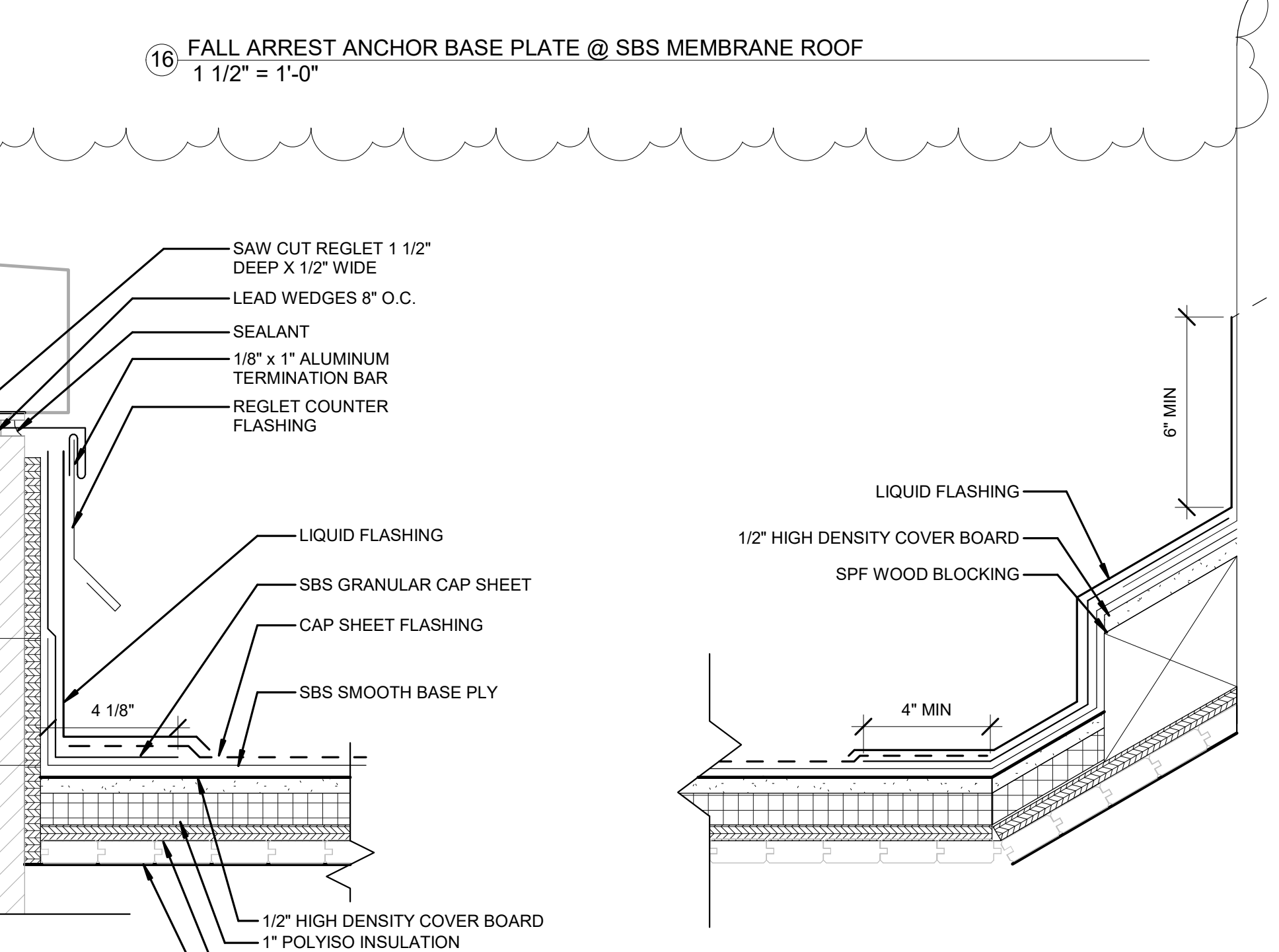
8 FALL ARREST ANCHOR BASE PLATE @ SHINGLE ROOF
1 1/2" = 1'-0"



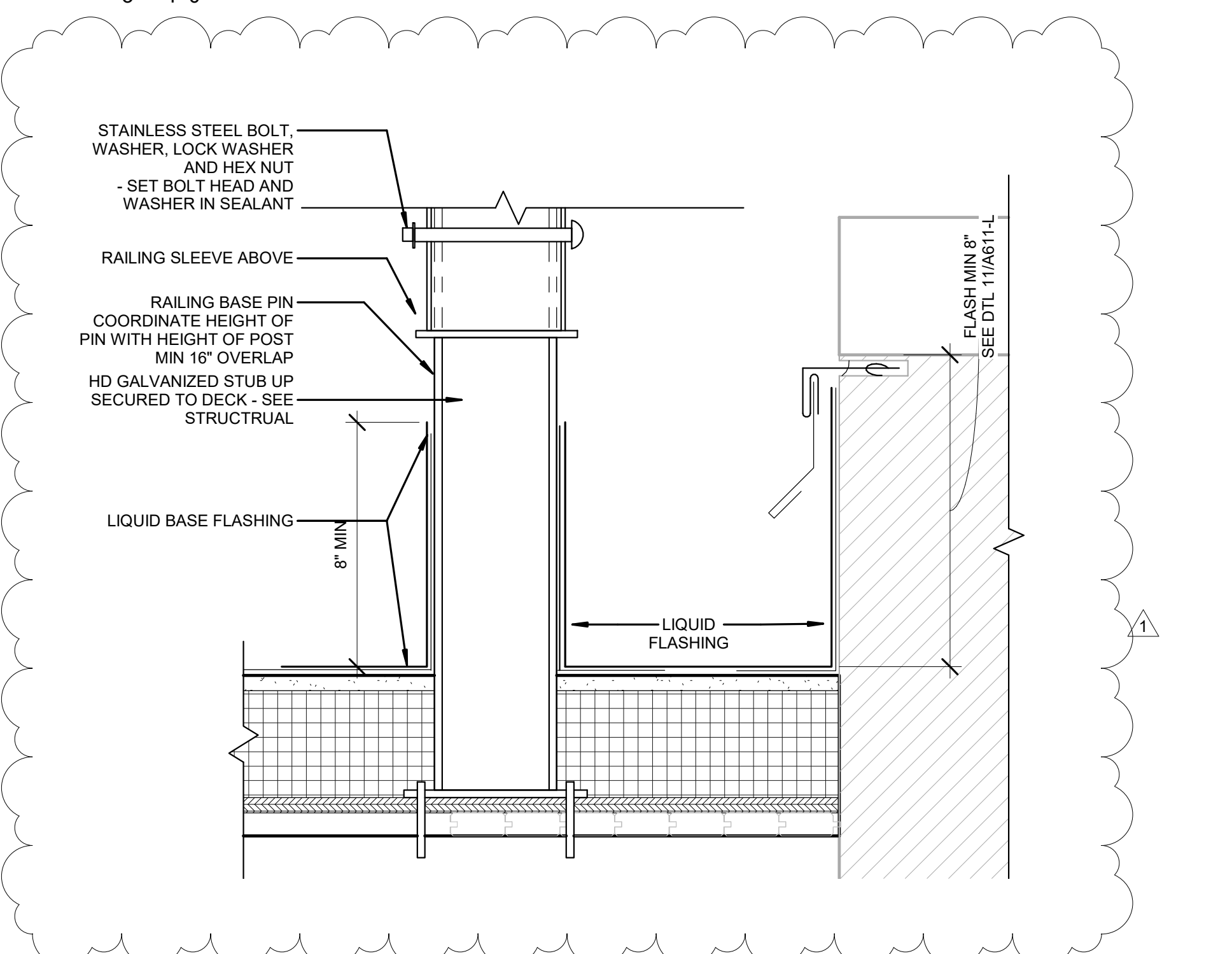
16 FALL ARREST ANCHOR BASE PLATE @ SBS MEMBRANE ROOF
1 1/2" = 1'-0"



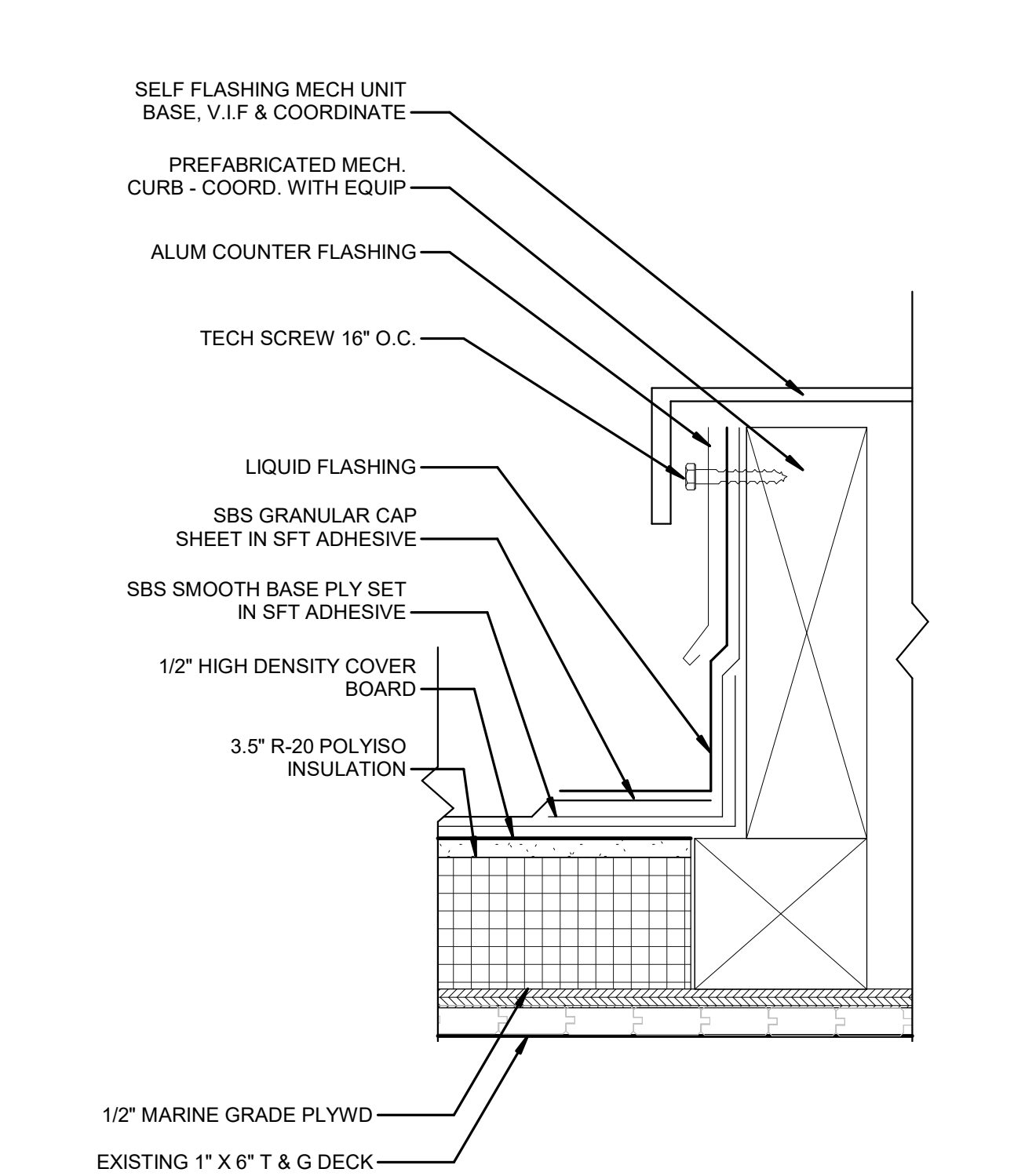
11 DETAIL THROUGH BUILT IN GUTTER @ PARAPET WALL
3" = 1'-0"



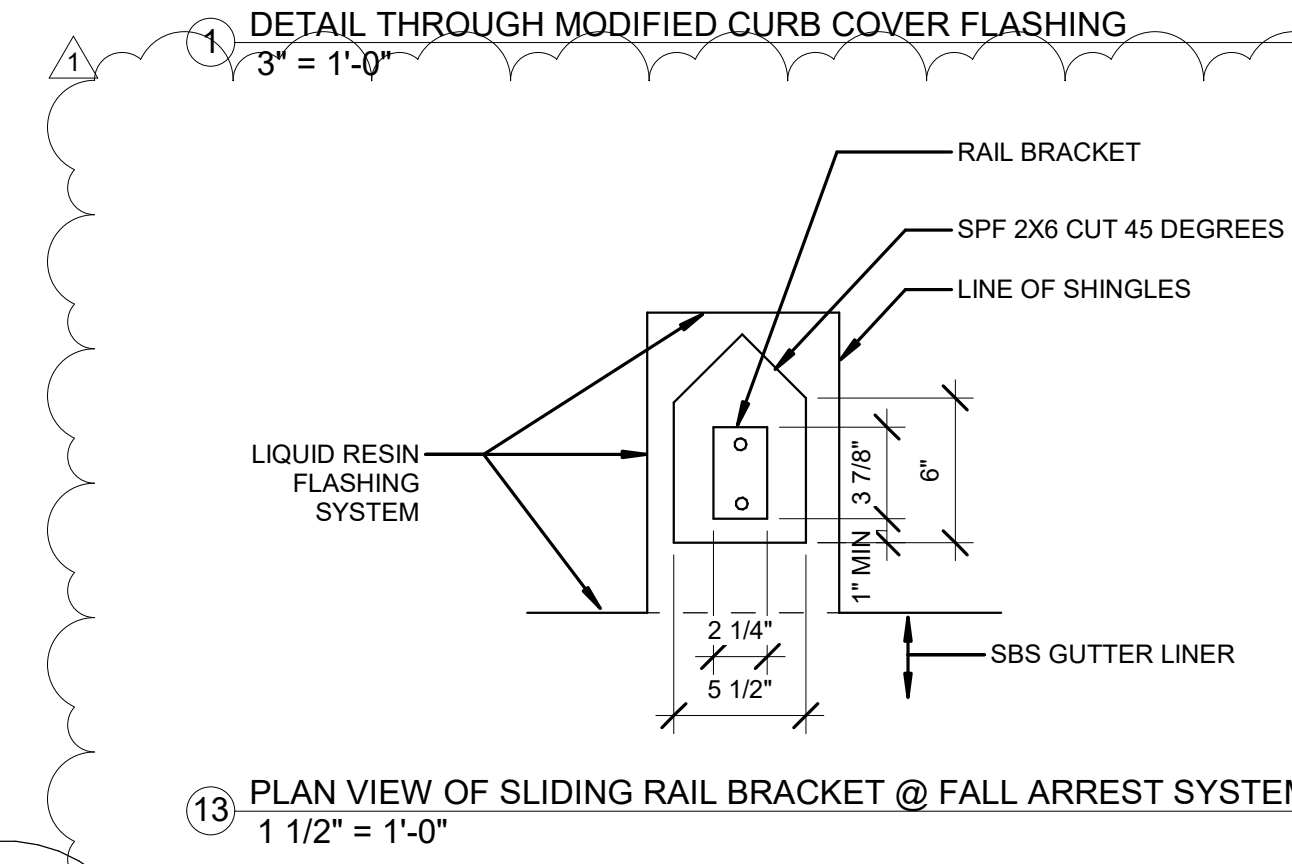
12 DETAIL @ ROOF FLASHING
3" = 1'-0"



5 DETAIL @ NEW RAILING @ LOW ROOF
3" = 1'-0"



1 DETAIL THROUGH MODIFIED CURB COVER FLASHING
3" = 1'-0"



13 PLAN VIEW OF SLIDING RAIL BRACKET @ FALL ARREST SYSTEM
1 1/2" = 1'-0"

STAMP AREA

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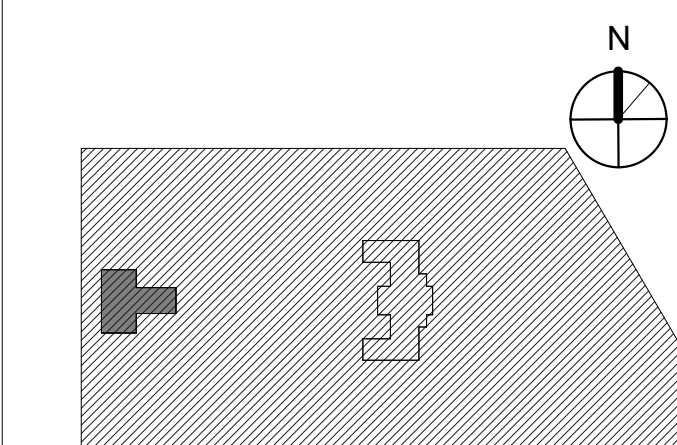


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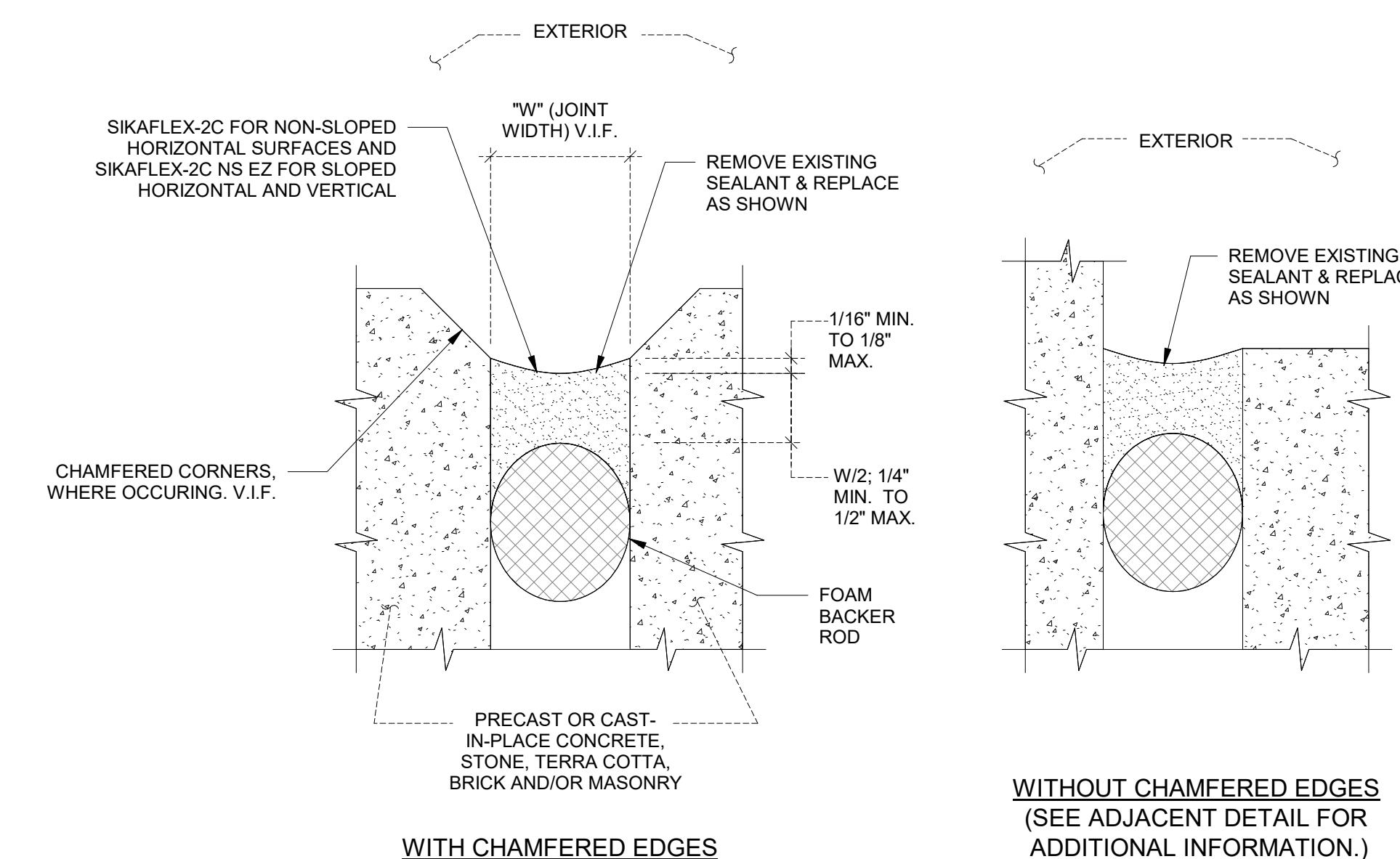
KEY PLAN



DRAWING TITLE
MASONRY REPAIR DETAILS

PROJECT NO. 21070	DRAWING NO.
DATE 9/7/22	A612-L
SCALE As indicated	
DRAWN BY Author	
CHECKED BY Checker	

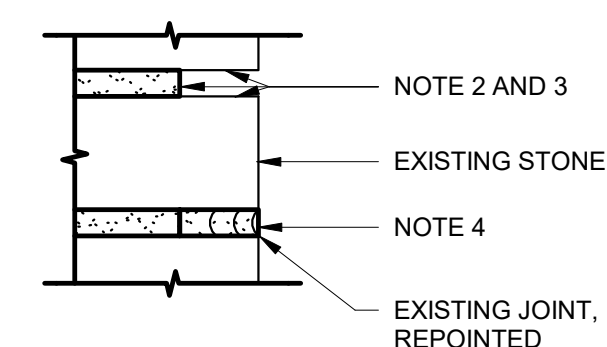
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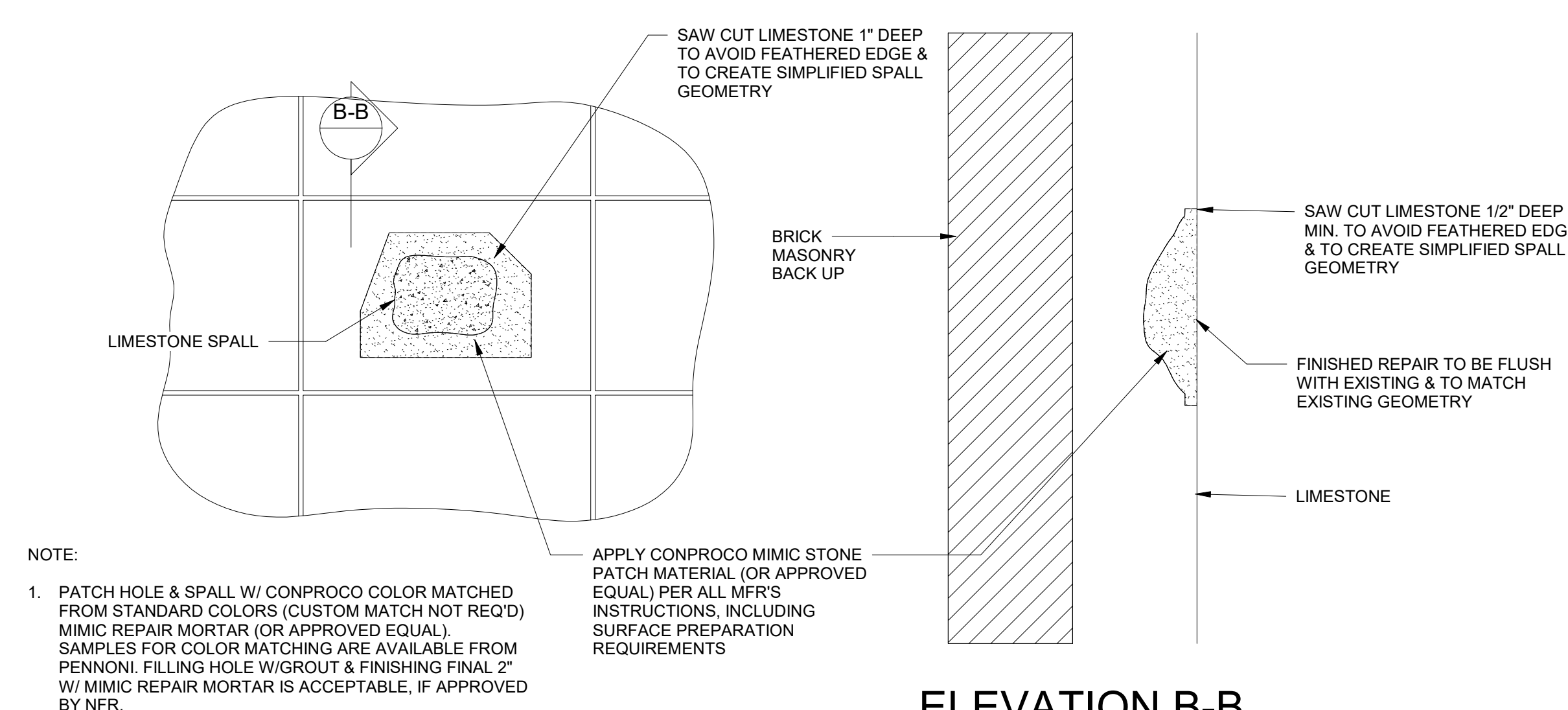
- NOTES:
- JOINT SHALL BE PREPARED PER RECOMMENDATIONS OF SEALANT MANUFACTURER.
 - SUBMIT WRITTEN PROPOSED PROCEDURE FOR INSTALLING JOINTS, PREPARING JOINTS FOR SEALANT APPLICATION AND PROCEDURE FOR INSTALLING SEALANTS. SUBMITTAL SHALL INCLUDE PRODUCT INFORMATION AND DESCRIPTION OF ALL MATERIALS.

8 VERTICAL SEALANT JOINT DETAILS
1" = 1'-0"

- NOTES:
- REPOINT ALL EXISTING BRICK MASONRY IN WORK AREA, INCLUDING HEAD AND BED UTILIZING THE FOLLOWING NOTES (SEE REPOINTING DETAIL (THIS SHEET))
- SUBMIT MORTAR MIX FOR APPROVAL BASED ON ESTABLISHED EXISTING PROPERTIES. APPROVED MORTAR MATERIAL SHALL BE COMPATIBLE WITH EXISTING IN-SITU BRICK MASONRY CHARACTERISTICS AND PROPERTIES INCLUDING THE EXISTING COLOR, TEXTURE, COMPRESSIVE STRENGTH PER ASTM C1314, MATERIAL COMPOSITION, AGGREGATE COLOR AND AGGREGATE GRADATION.
 - REPOINT BY RAKING EXISTING MATERIAL TO A MINIM DEPTH OF 2.5 TIMES JOINT WIDTH BUT NOT LESS THAN 3/4" OR AS REQUIRED TO REMOVE DETEIORATED MORTAR USING A TUCK-POINT CHISEL AND HAND SLEDGE. AS AN ALTERNATE, USE A CIRCULAR SAW WITH A CARBORUNDUM BLADE AT HORIZONTAL JOINTS. TAKE CARE NOT TO DAMAGE EXPOSED FACE OF BRICK MASONRY.
 - REMOVE ALL DEBRIS FROM ALL EXPOSED SIDES OF THE BRICK MASONRY AND DAMPED CLEANED AREA PRIOR TO INSTALLING NEW MORTAR.
 - REPOINT WITH AN APPROVED PRE-HYDRATED MORTAR MIX IN CONFORMANCE WITH ASTM C270 BY APPLYING WITH A STRIKING TOOL OR SLICK. PLACE/RAM MORTAR INTO OPEN JOINT IN MULTIPLE OVERLAYING LAYERS OF 2 TO 3, DEPENDING ON DEPTH OF OPEN JOINT. WHEN FINAL LAYER HAS BEEN APPLIED, POINT JOINT TO MATCH EXISTING.

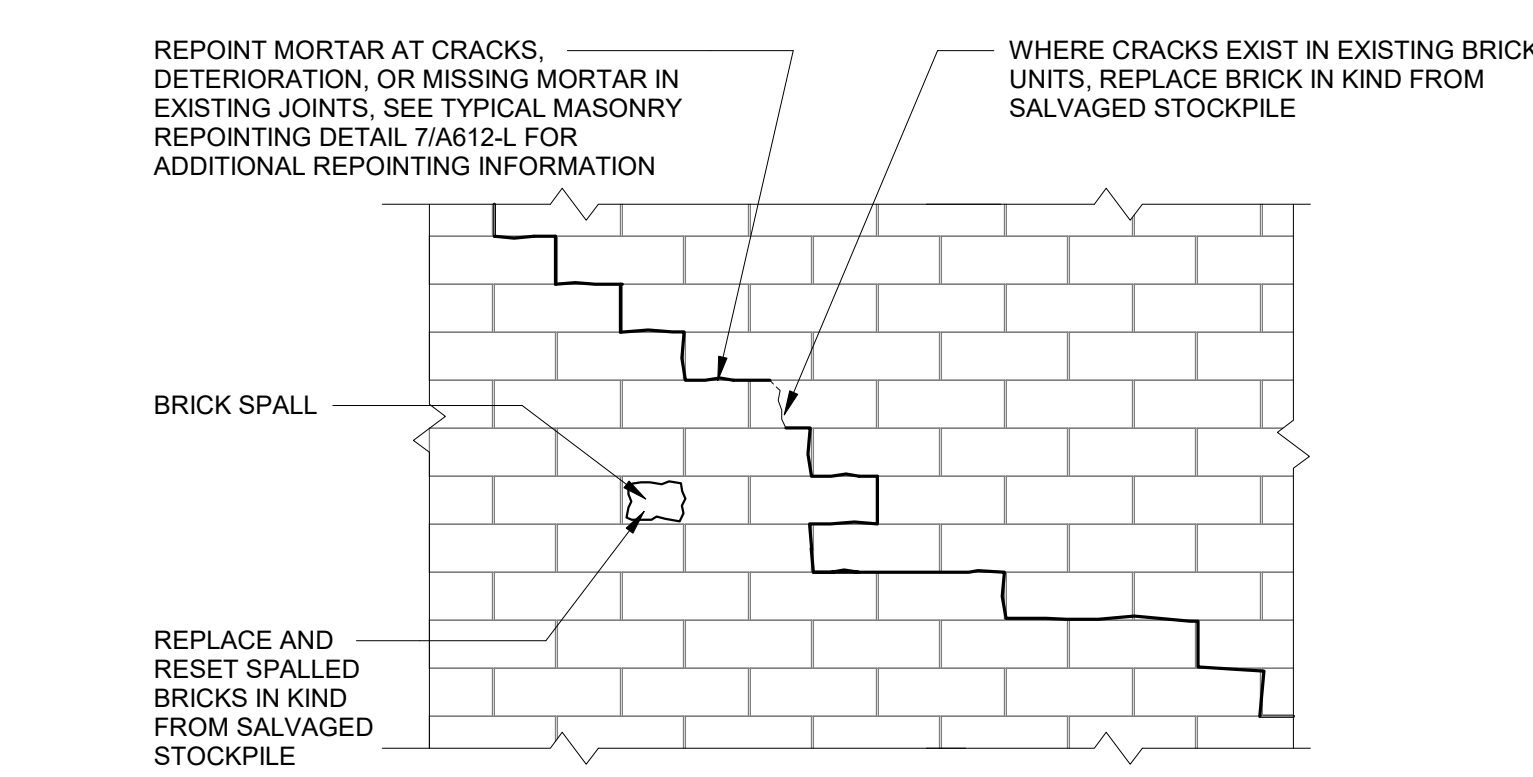


7 TYP MASONRY REPOINTING
1" = 1'-0"

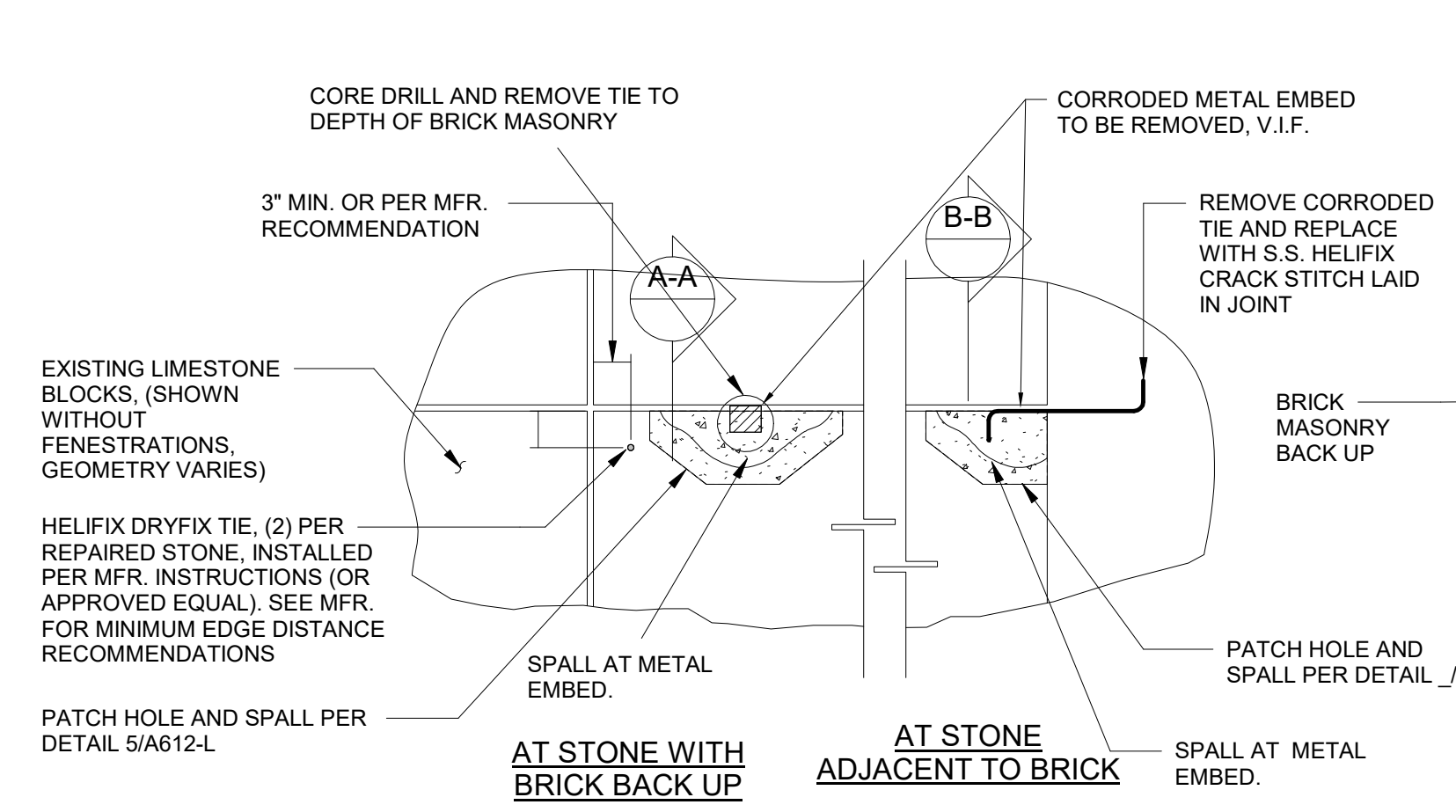


- NOTE:
- PATCH HOLE & SPALL W/ CONPROCO COLOR MATCHED FROM STANDARD COLORS (CUSTOM MATCH NOT REQ'D) MIMIC REPAIR MORTAR (OR APPROVED EQUAL). SAMPLES FOR COLOR MATCHING ARE AVAILABLE FROM PENNONI. FILLING HOLE W/ROUT & FINISHING FINAL 2" W/ MIMIC REPAIR MORTAR IS ACCEPTABLE, IF APPROVED BY NFR.

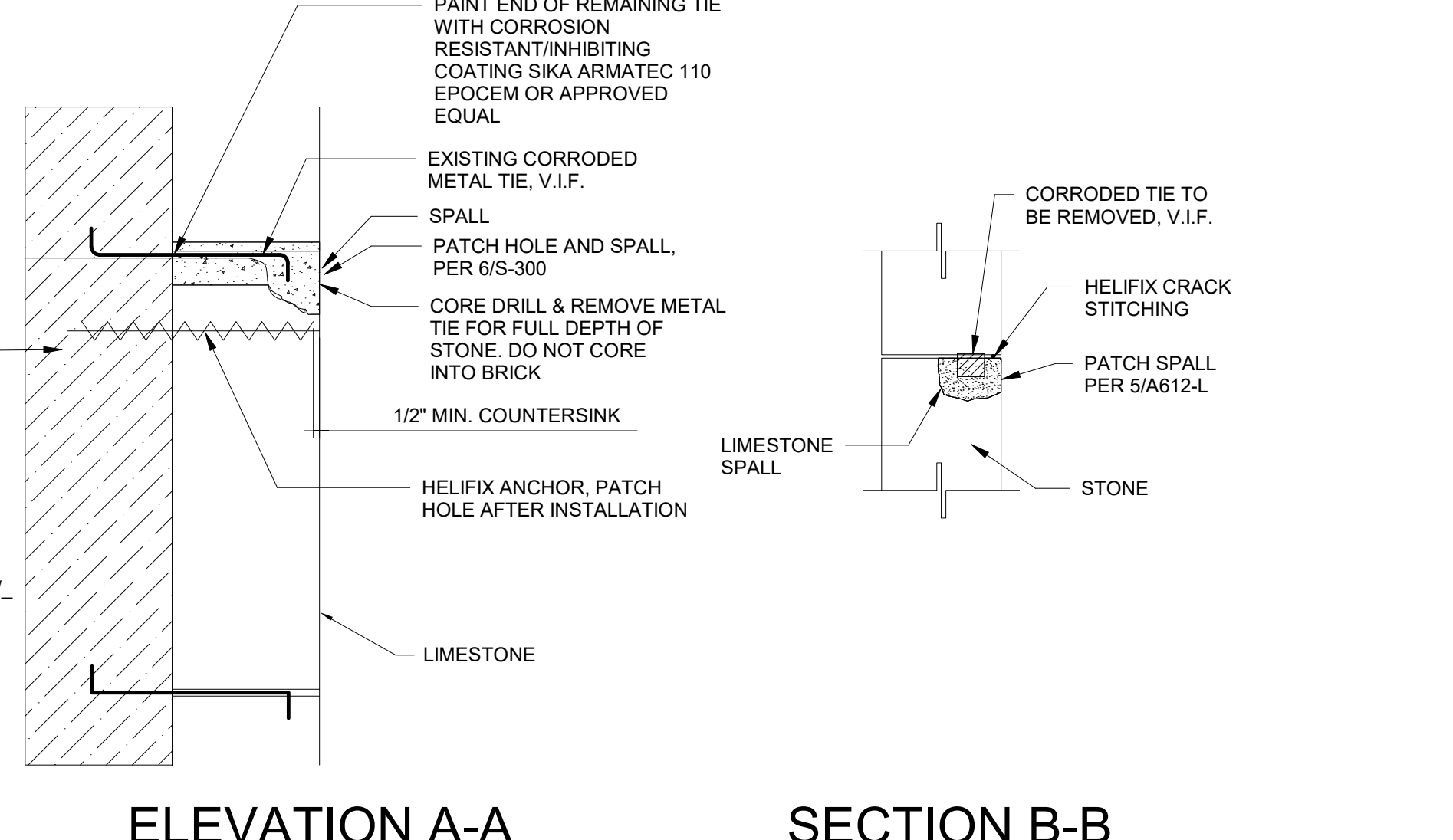
5 ELEVATION @ STONE SPALL REPAIR
3/4" = 1'-0"



6 BRICK CRACK AND SPALL REPAIR
1" = 1'-0"



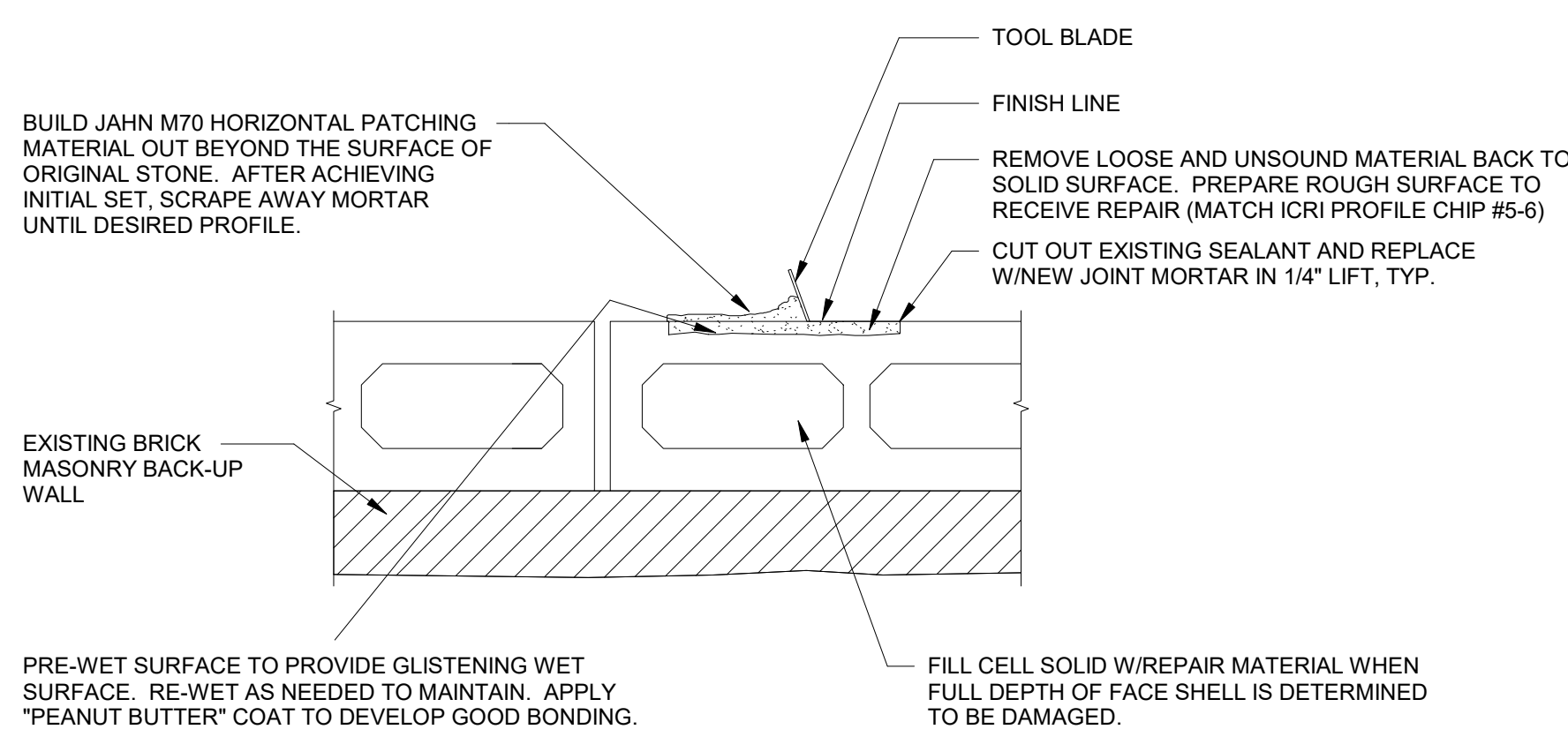
4 ELEVATION @ STONE SPALL REPAIR W/ CORRODED METAL EMBEDS
3/4" = 1'-0"



ELEVATION A-A SECTION B-B

2 TYP TERRA COTTA REPOINTING DETAIL
1" = 1'-0"
ALTERNATE: ROUT (E) JOINT AND INSTALL SEALANT PER DETAIL 8/A612-L

3 TYP TERRA COTTA CRACK REPAIR
1" = 1'-0"



1 TERRA COTTA SPALL REPAIR
3/4" = 1'-0"

STAMP AREA

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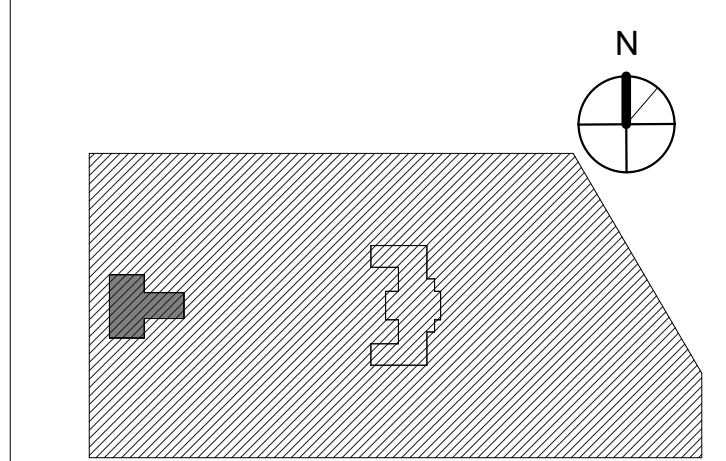


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PROJECT TITLE
**KINGSESSING LIBRARY BUILDING
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KEY PLAN



DRAWING TITLE
REFLECTED CEILING PLANS

PROJECT NO. 21070	DRAWING NO. A701-L
DATE 9/7/22	
SCALE As indicated	
DRAWN BY A.F.	
CHECKED BY D.B.	

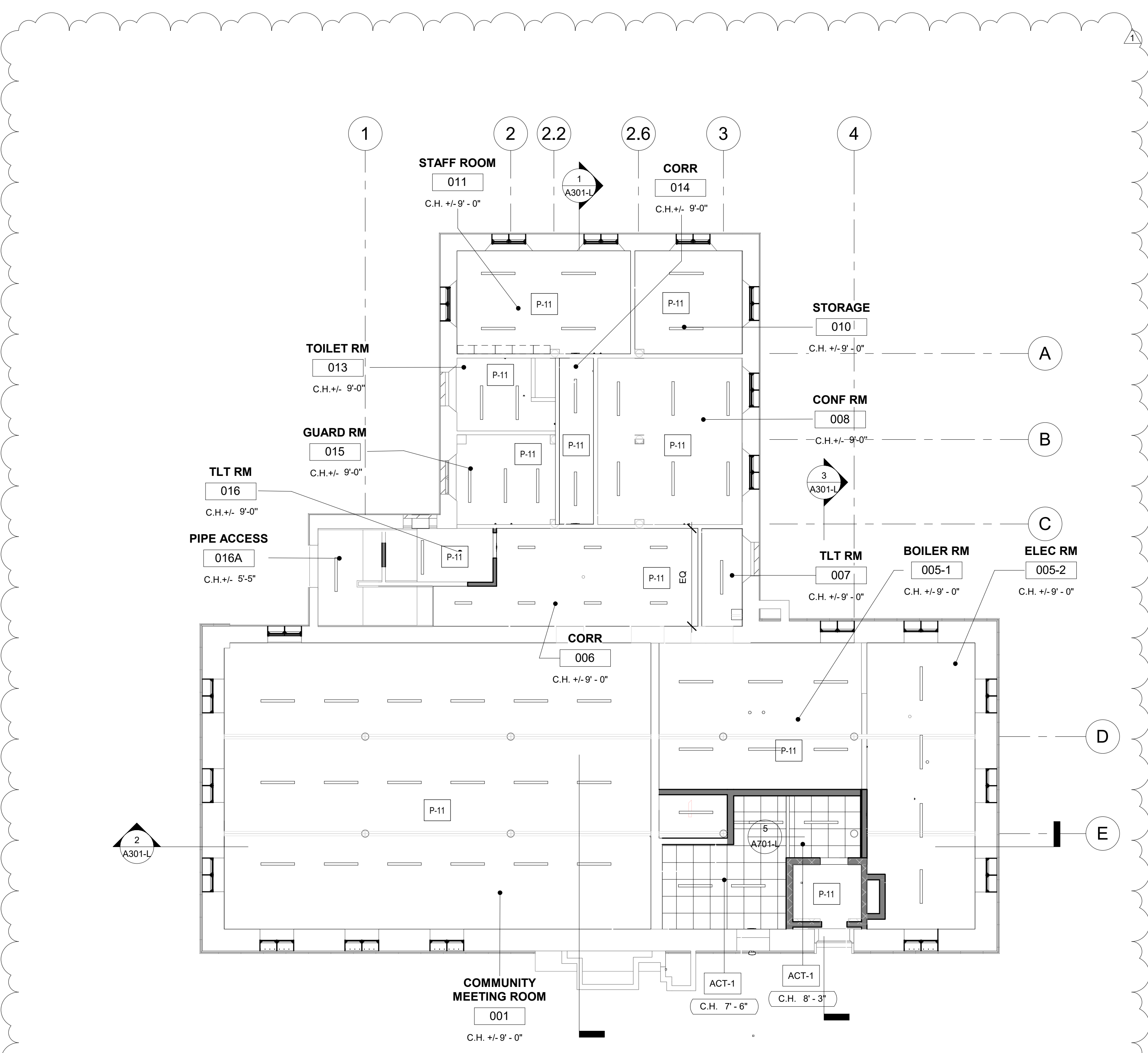
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NEW MEP SYSTEMS THROUGHOUT - SEE MEP DWGS.
SEE ELEC DWGS FOR ELEC SCOPE
SEE ELEC DWGS FOR LIGHT FIXTURE SCHED AND LAYOUTS

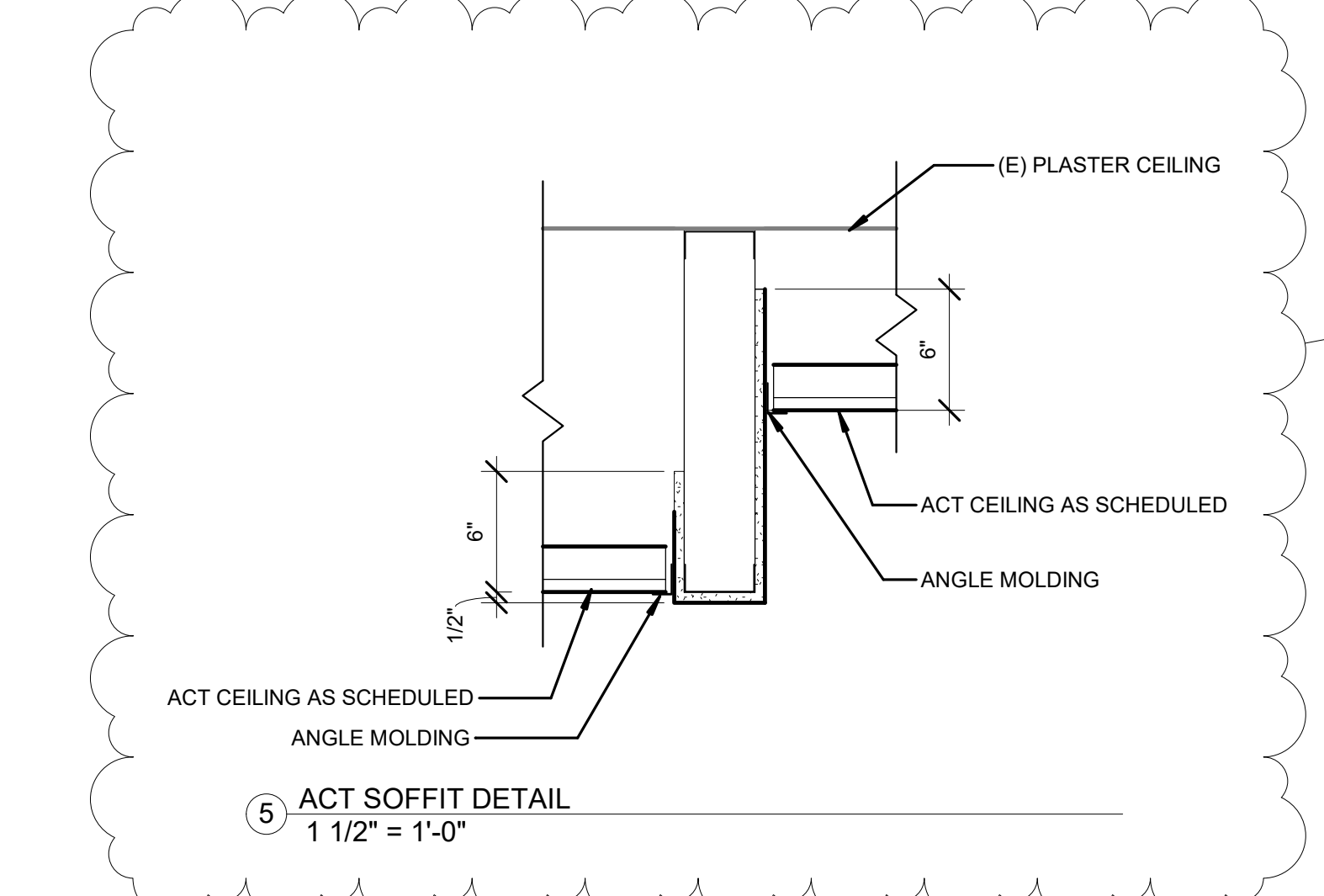
- PATCH AND REPAIR PLASTER AND GWB CEILING AT ALL AREAS, INCLUDING NEW PANEL OR DIFFUSER LOCATIONS, WHERE NOTED PREP AND PAINT. SEE FINISH SCHED. FOR COLOR(S).
- INSTALL ACCESS PANEL AT VOL. DAMPER LOCATIONS - COORDINATE WITH MECH.
 - BOD: 16" X 16" CONCEALED FLANGE WITH DRYWALL INSERT
 - LOCATIONS AS INDICATED.
 - VOL. DAMPERS UNDER PITCHED ROOF ACCESSED IN ATTIC

1. VEST 004:
A. INSTALL NEW ACT

AREA OF PLASTER REPAIR
WALL BELOW
(N) ACCESS PANEL

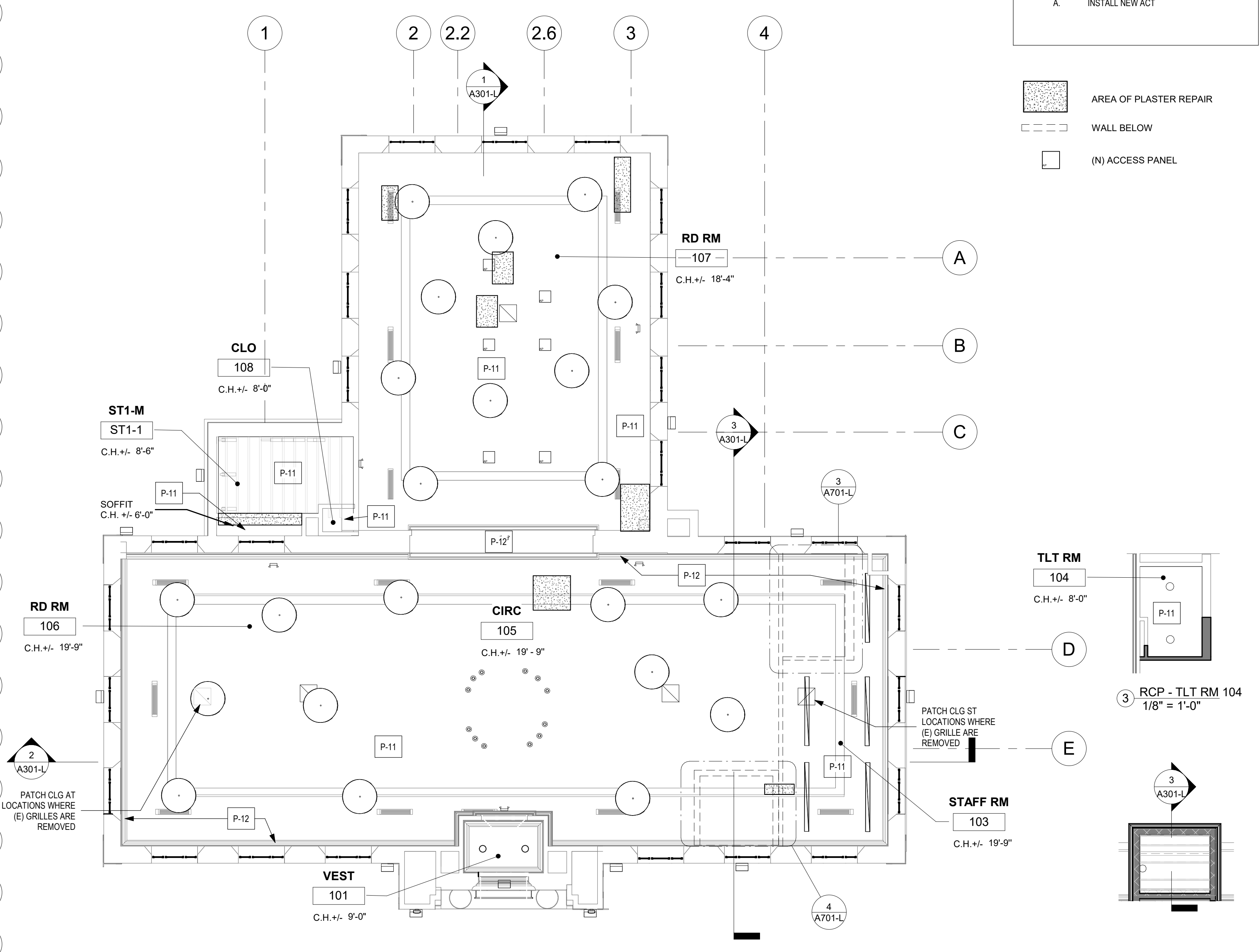


2 LOWER LEVEL RCP
1/8" = 1'-0"

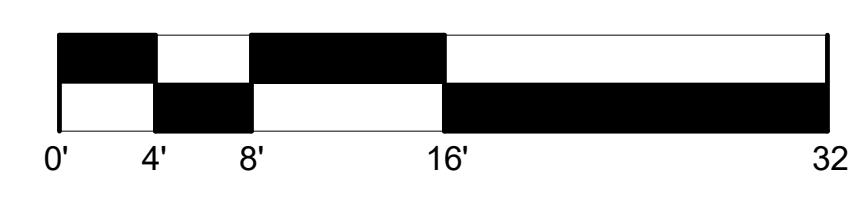


5 ACT SOFFIT DETAIL
1 1/2" = 1'-0"

STAMP AREA



1 First FLOOR RCP
1/8" = 1'-0"

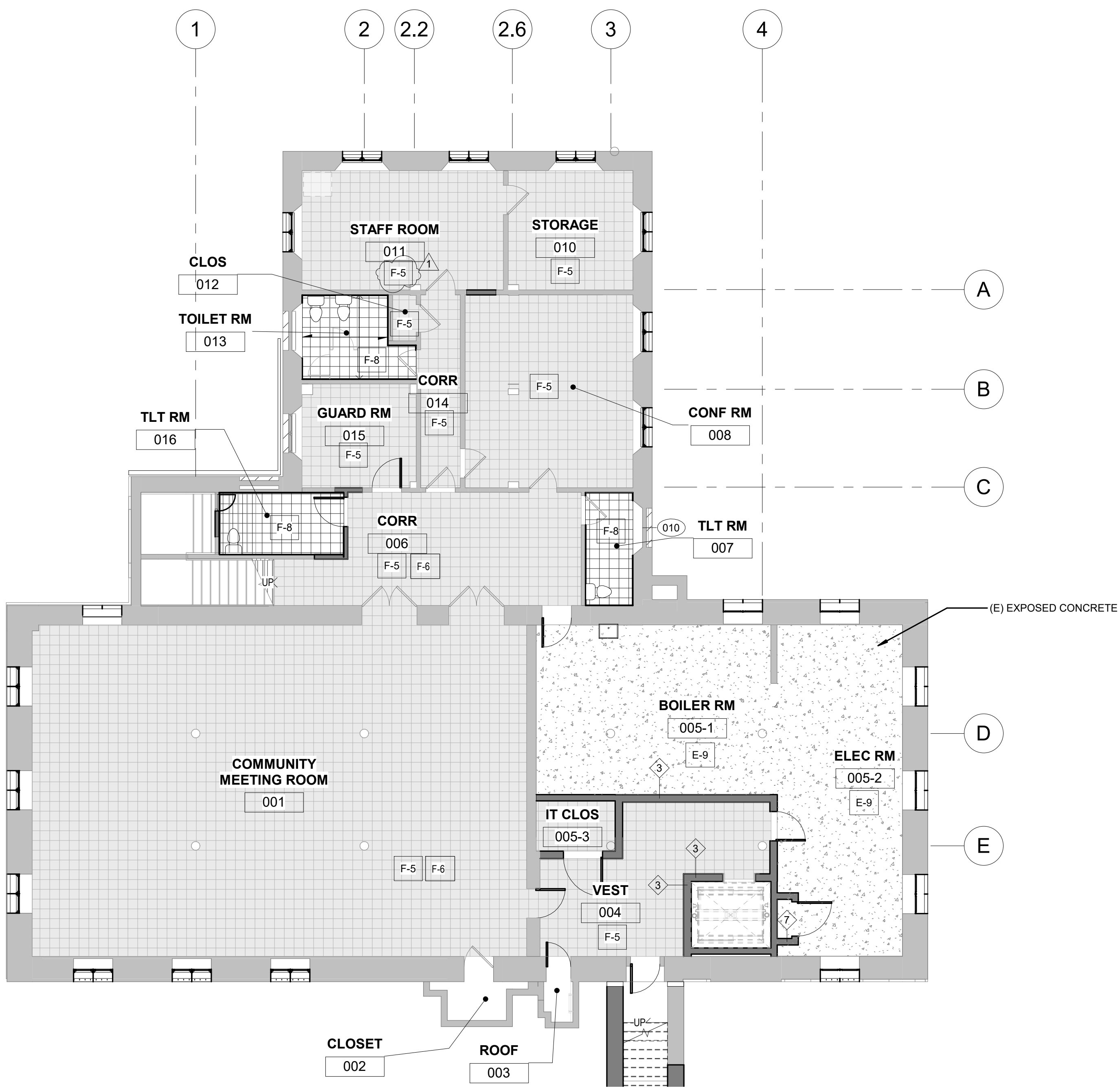


TLT RM 104
C.H. +/- 8'-0"

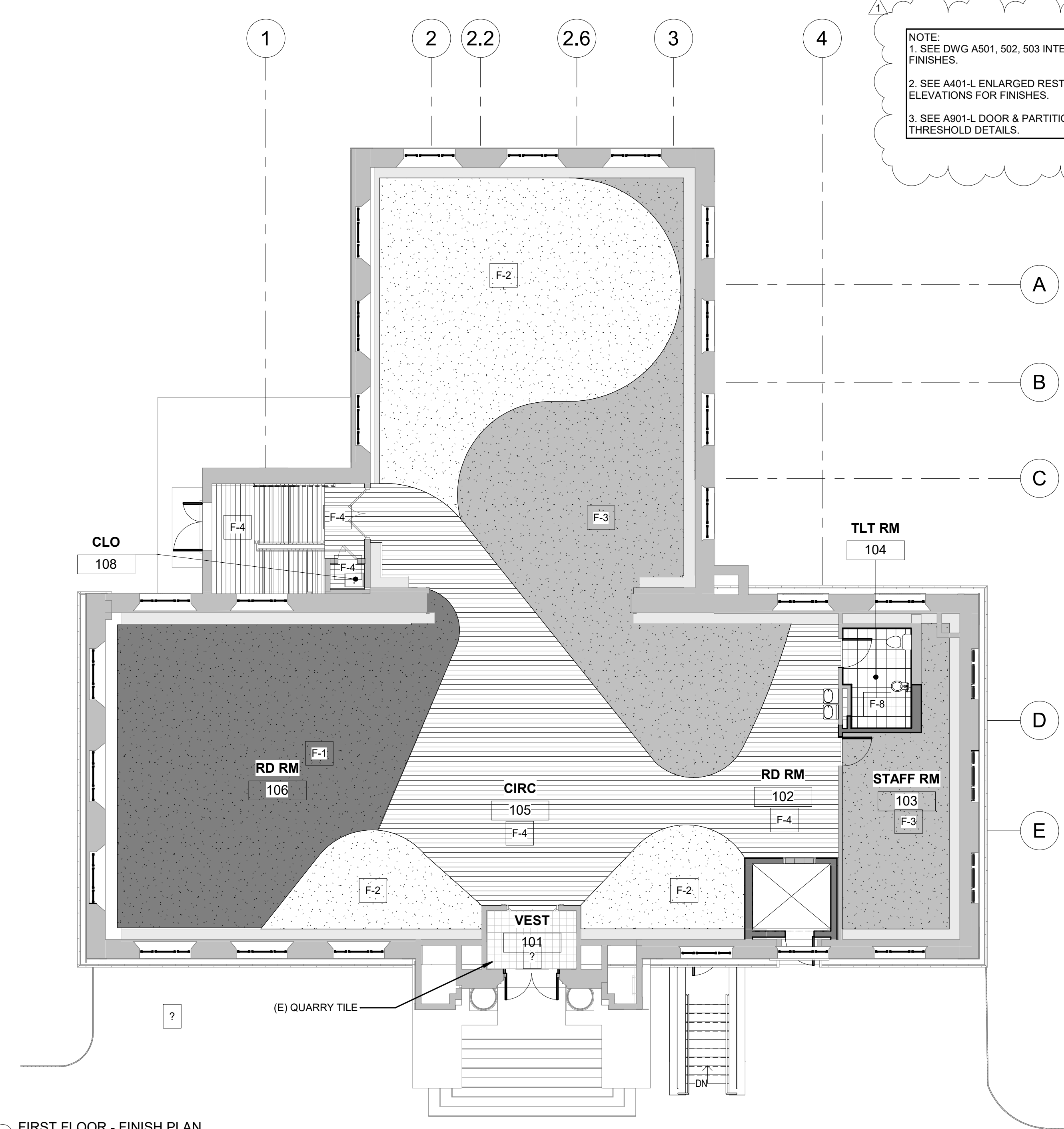
3 RCP - TLT RM 104
1/8" = 1'-0"

3 A301-L

4 RCP - ELEVATOR
1/8" = 1'-0"



2 LOWER LEVEL - FINISH PLAN
1/8" = 1'-0"



1 FIRST FLOOR - FINISH PLAN
1/8" = 1'-0"

NOTE:
1. SEE DWG A501, 502, 503 INTERIOR ELEVATIONS FOR WALL FINISHES.
2. SEE A401-L ENLARGED RESTROOM PLANS AND ELEVATIONS FOR FINISHES.
3. SEE A901-L DOOR & PARTITION SCHEDULES FOR THRESHOLD DETAILS.

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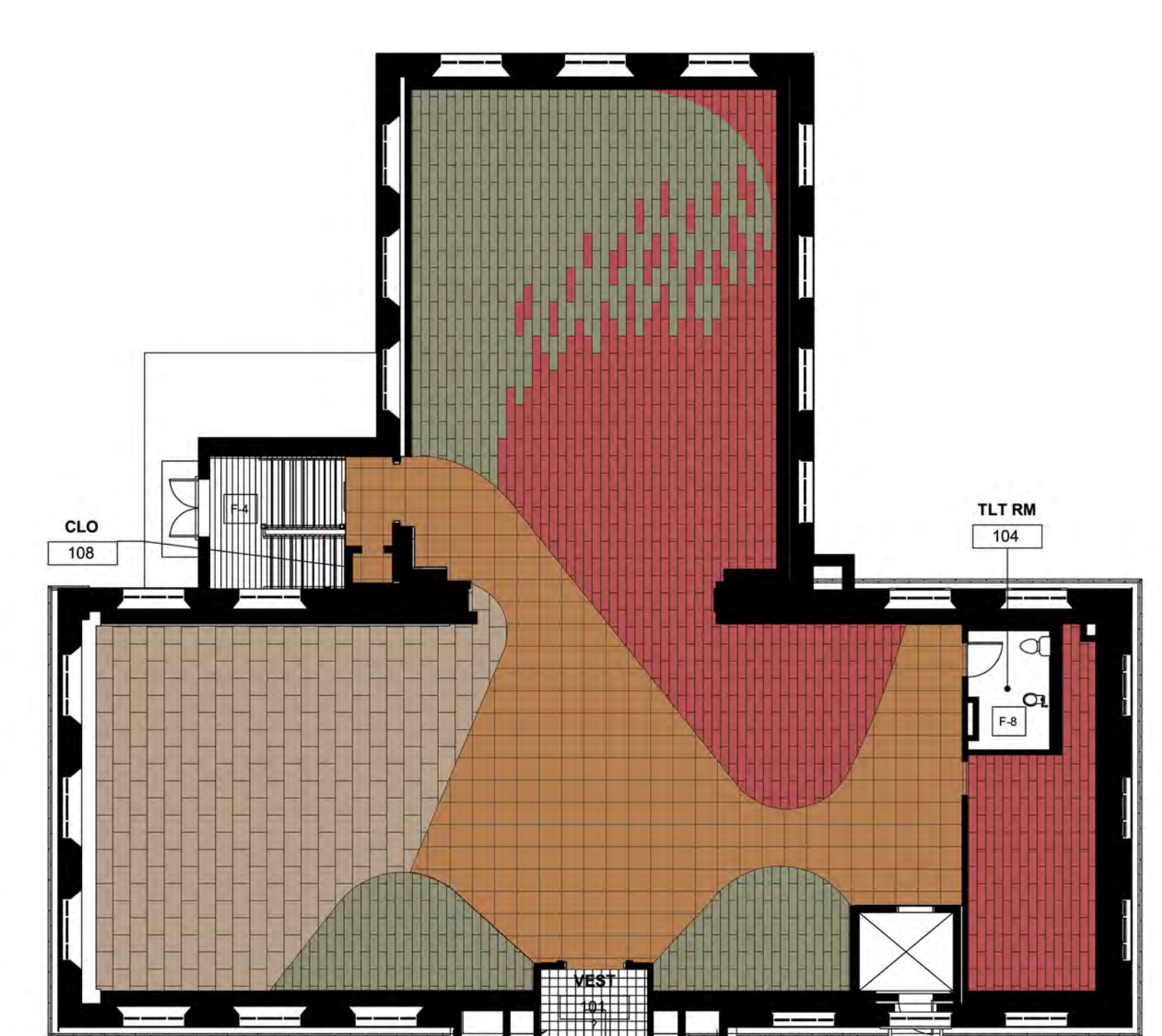
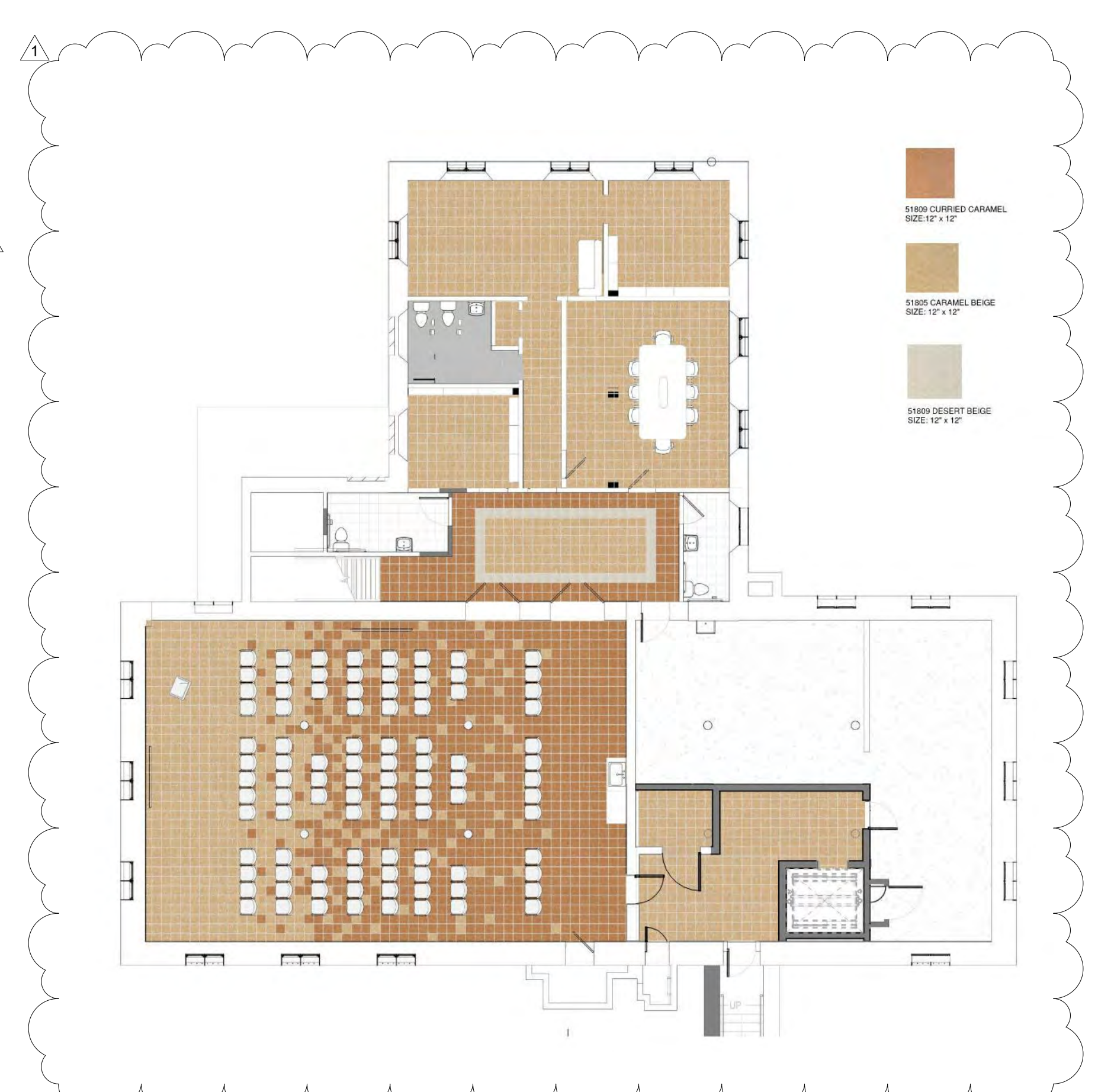
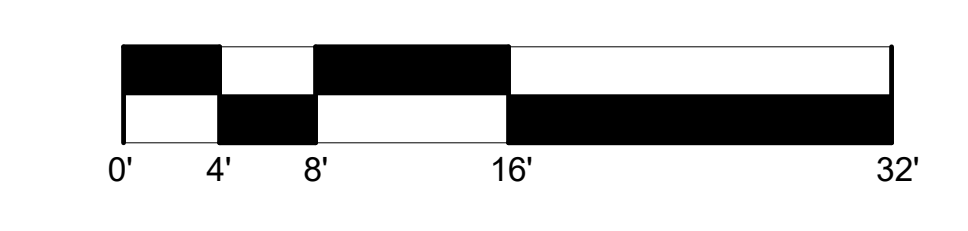
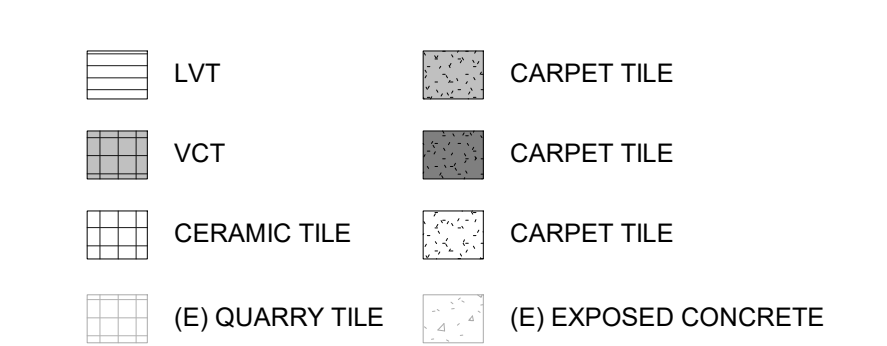
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FINISH MATERIALS

TAG	MATERIAL	MANUFACTURER	MODEL	FINISH	NOTES
F-1	CARPET TILE	SHAW CONTRACT	CHROMATONE TILE - ST444	CLAY SILVER - 07675	ASHLAR INSTALLATION METHOD, WB-1
F-2	CARPET TILE	SHAW CONTRACT	SATURATE TILE - ST109	TAUPE - 07515	ASHLAR INSTALLATION METHOD, WB-1
F-3	CARPET TILE	SHAW CONTRACT	SATURATE TILE - ST109	CLAY - 07675	ASHLAR INSTALLATION METHOD, WB-1
F-4	LVT	SHAW CONTRACT	INSPIRE 5.0MM - 4120V	ORANGE - 84668	MONOLITHIC INSTALLATION METHOD, WB-1
F-5	VCT MARY TILE	ARMSTRONG	IMPERIAL TEXTURE	S1905 - CAMEL BEIGE	PATTERN AS SCHEDULED, WB-2
F-6	VCT ACCENT TILE	ARMSTRONG	IMPERIAL TEXTURE	S1942 - CURRIED CARAMEL	PATTERN AS SCHEDULED, WB-2
F-7	VCT ACCENT TILE	ARMSTRONG	IMPERIAL TEXTURE	S1809 - DESERT BEIGE	PATTERN AS SCHEDULED, WB-2
F-8	PORCELAIN TILE	DALTILE	KIMONA SILK	MORNING DOVE P325	12"x12" IN SIZE WITH 6"x12" COVE BASE, GROUT COLOR: G-2
CT-1	CERAMIC TILE	DALTILE	COLOR WHEEL CLASSIC	BISCUIT K175	4" x 4" IN SIZE, GROUT COLOR: G-1
CT-2	CERAMIC TILE	DALTILE	COLOR WHEEL CLASSIC	SPA 0148	4" x 4" IN SIZE, GROUT COLOR: G-1
G-1	GROUT COLOR	CUSTOM	FUSION PRO	#434 BLEACHED WOOD	WALL
G-2	GROUT COLOR	CUSTOM	FUSION PRO	TBD	FLOOR
WB-1	WALL BASE	ROPPE	PINNACLE RUBBER BASE	148 STEEL GRAY	FIRST FLOOR
WB-2	WALL BASE	ROPPE	PINNACLE RUBBER BASE	125 FIG	LOWER FLOOR
P-1	GENERAL PAINT	SHERWIN WILLIAMS	SW9504	EGGSHELL FINISH	WALL THROUGH OUT, GENERAL SHELVING, DOOR AND FRAME PAINT. PROVIDE LEVEL 4 MIN. GWB FINISH.
P-2	ACCENT PAINT (RED)	SHERWIN WILLIAMS	SW6866	EGGSHELL FINISH	PAINT BACK OF SHELVING AT KIDS AREA.
P-3	ACCENT PAINT (ORANGE)	SHERWIN WILLIAMS	SW6862	EGGSHELL FINISH	
P-4	ACCENT PAINT (YELLOW)	SHERWIN WILLIAMS	SW6907	EGGSHELL FINISH	
P-5	ACCENT PAINT (GREEN)	SHERWIN WILLIAMS	SW6918	EGGSHELL FINISH	
P-6	ACCENT PAINT (TEAL)	SHERWIN WILLIAMS	SW6769	EGGSHELL FINISH	
P-7	ACCENT PAINT (BLUE)	SHERWIN WILLIAMS	SW6795	EGGSHELL FINISH	
P-8	ACCENT PAINT (PURPLE)	SHERWIN WILLIAMS	SW6982	EGGSHELL FINISH	
P-9	ACCENT PAINT (NAVY)	SHERWIN WILLIAMS	SW6523	EGGSHELL FINISH	PAINT BACK OF SHELVING AT ADULT AREA.
P-10	ACCENT PAINT (DARK RED)	SHERWIN WILLIAMS	SW7598	EGGSHELL FINISH	PAINT BACK OF SHELVING AT TEEN AREA.
P-11	CEILING PAINT	SHERWIN WILLIAMS	SW7007	EGGSHELL FINISH	PROVIDE LEVEL 4 MIN. GWB FINISH.
P-12	SHELVING SILL PAINT	SHERWIN WILLIAMS	SW9006	EGGSHELL FINISH	PROVIDE LEVEL 4 MIN. GWB FINISH.
P-13	DOOR AND DOOR FRAME PAINT	SHERWIN WILLIAMS	SW7024	EGGSHELL FINISH	LOWER FLOOR DOOR, DOOR FRAME AND STAIR.
PL-1	WOOD VENEER LAMINATE	WILSONART	NEW AGE OAK T938-38	-	SOLID WOOD EDGING TO MATCH
SS-1	SOLID SURFACE	WILSONART	MYSTIQUE 9200CS	-	
E-1	EXISTING CONCRETE	ETR	ETR	CLEAN, SEALER	
E-2	EXISTING QUARRY TILE	ETR	ETR	CLEAN AND PATCH AS NEEDED	
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	2X2 LAY IN TILE, CIRRUS	11/16" GRID, REGULAR EDGE	



Project: Kingessing Library Renovation
Date: September 2, 2022 • VERSION: 1 Initial
Rep: Vicky McConaghy #10.299-0852
Rendered by: CP

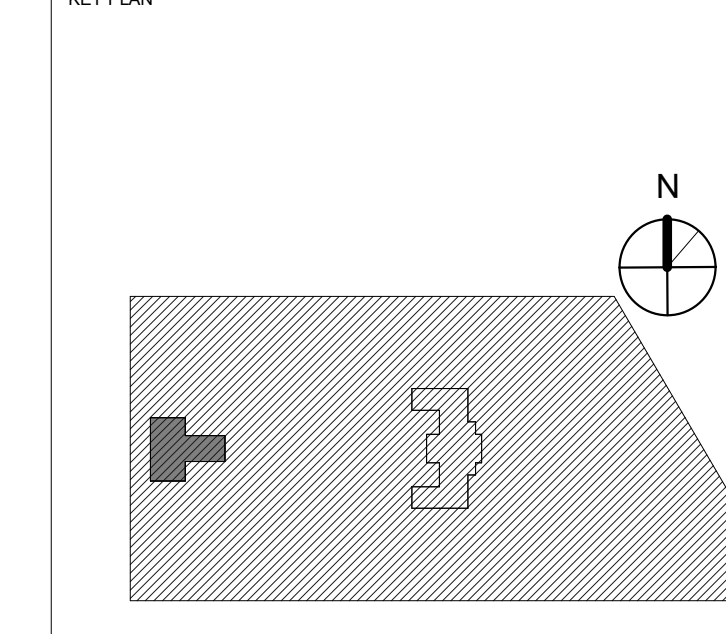


STAMP AREA



CITY OF PHILADELPHIA
FREE LIBRARY OF PHILADELPHIA
1901 VINE ST
PHILADELPHIA, PA 19103

PHILADELPHIA PENNSYLVANIA
PROJECT TITLE
KINGESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS



FINISH PLANS AND SCHEDULES

PROJECT NO.	21070	DRAWING NO.	A801-L
DATE	9/7/22		
SCALE	As Indicated		
DRAWN BY	M.W.		
CHECKED BY	D.B.		

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

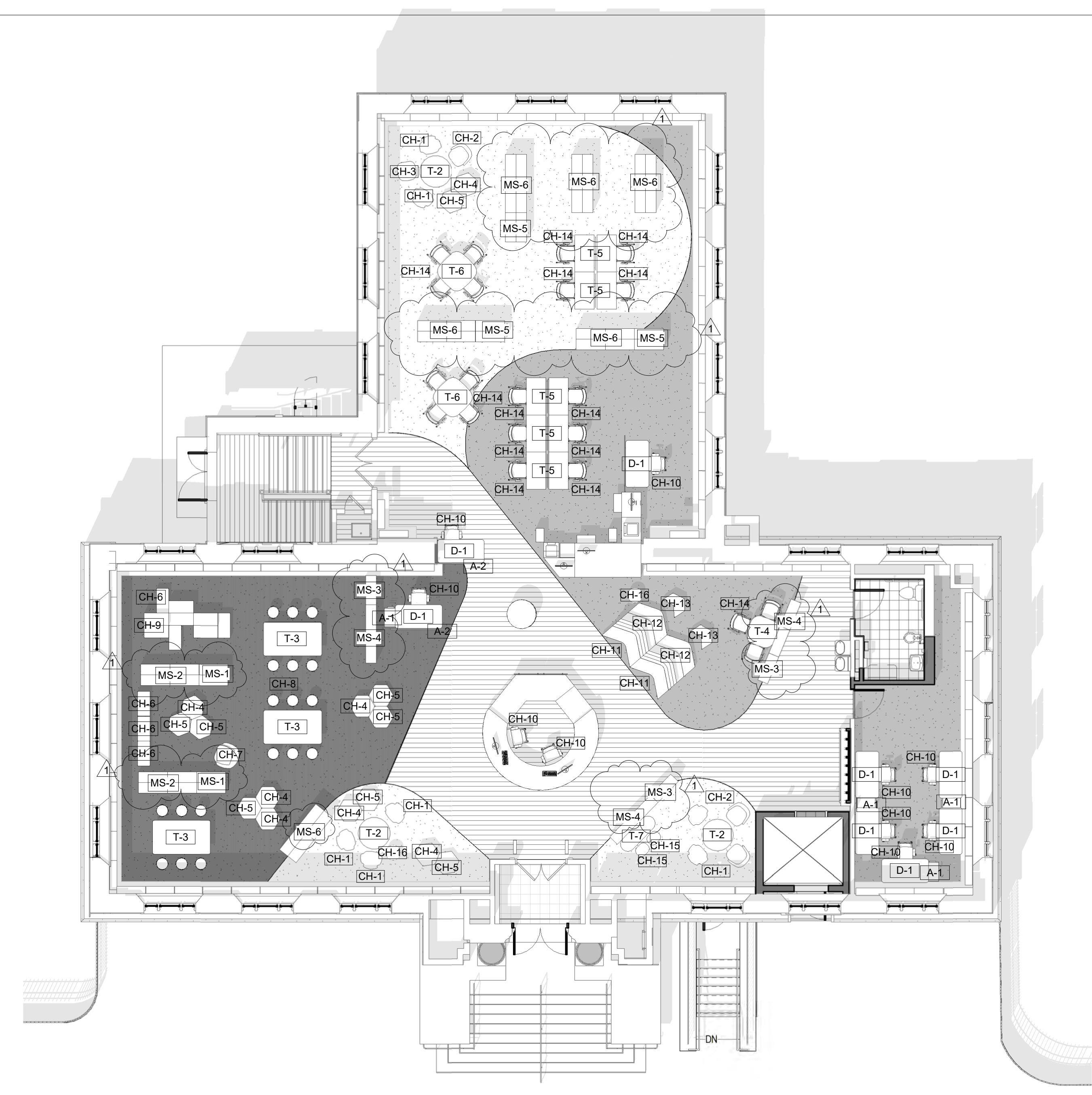
FURNITURE SCHEDULE - FIRST FLOOR					
Type Mark	Count	MANUFACTURER	DESCRIPTION	COMMENTS	FLOOR LEVEL
CH-1	7	HAWORTH	JULI SIDE CHAIR	-	FIRST FLOOR
CH-2	3	HAWORTH	CHICK POUF	WITH BACKREST	FIRST FLOOR
CH-3	1	HAWORTH	CHICK POUF	WITHOUT BACKREST	FIRST FLOOR
CH-4	7	THE HON COMPANY	TANGRAM POUFS - VARSITY HEXAGON	-	FIRST FLOOR
CH-5	9	THE HON COMPANY	TANGRAM POUFS - JV HEXAGON	-	FIRST FLOOR
CH-6	6	THE HON COMPANY	TANGRAM STORY STEPS - BENCH	-	FIRST FLOOR
CH-7 BY OTHER	1	-	NURSING GLIDER	-	FIRST FLOOR
CH-8	18	THE HON COMPANY	REVEL - EDUCATION FIDGET STOOL	-	FIRST FLOOR
CH-9	3	THE HON COMPANY	TANGRAM STORY STEPS - STOOP	MULTI-FABRIC	FIRST FLOOR
CH-10	10	THE HON COMPANY	IGNITION 2.0 TASK - REACTIV LOW-BACK	-	FIRST FLOOR
CH-11	2	THE HON COMPANY	TANGRAM MODULAR LOUNGE - ARROW IN - HIGH BACK	MULTI-FABRIC	FIRST FLOOR
CH-12	2	THE HON COMPANY	TANGRAM MODULAR LOUNGE - ARROW OUT - LOW BACK	MULTI-FABRIC	FIRST FLOOR
CH-13	2	THE HON COMPANY	TANGRAM POUFS - VARSITY ARROW	-	FIRST FLOOR
CH-14	21	THE HON COMPANY	MOTIVATE - NESTING / STACKING FLEX-BACK CHAIR	ARMLESS	FIRST FLOOR
CH-15	2	HAWORTH	HI PAD STOOL - HIGH	HIGH STOOL	FIRST FLOOR
CH-16	2	ALLSTEEL	RECHARGE - MODULAR LOUNGE - ROUND POUF	-	FIRST FLOOR
T-2	3	HAWORTH	BUZZMILK COLLABORATIVE TABLE	-	FIRST FLOOR
T-3	3	THE HON COMPANY	BUILD - MAKERSPACE TABLE - SEATED HEIGHT - BUTCHER BLOCK TOP	SLOTTED END PANEL - 72"W x 42"D x 29" H	FIRST FLOOR
T-4	1	THE HON COMPANY	BIRK TABLES - TABLE TOP - SOFT SQUARE TOPS WITH FLAT EDGE	36" W	FIRST FLOOR
T-5	5	HAWORTH	PLANES - FIXED HEIGHT BENCH - DUAL-SIDED - 46"W x 24"D - CRANK ADJUSTMENT	WITH BELONG SCREENS 15"H x 42"D ON EACH TABLE (COUNT: 10)	FIRST FLOOR
T-6	2	THE HON COMPANY	BIRK TABLES - TABLE TOP - SOFT SQUARE TOPS WITH FLAT EDGE	42" W	FIRST FLOOR
T-7	1	HAWORTH	POP UP - RACETRACK TABLE - CASTERS	41"H x 30"D x 72"W	FIRST FLOOR
D-1	8	HAWORTH	ACTIVE COMPONENT - RECTANGULAR HEIGHT ADJUSTABLE TABLE	WITH CPU HOLDER CADDY BY ERGOTION	FIRST FLOOR
A-1	4	HAWORTH	COMPOSE STORAGE B2PH	BOX / BOX / FILE PEDESTAL	FIRST FLOOR
A-2	2	HAWORTH	BELONG PLUS BACK SCREEN WITH MODESTY	27"H x 70"W	FIRST FLOOR

FURNITURE SCHEDULE - LOWER FLOOR					
Type Mark	Count	MANUFACTURER	DESCRIPTION	COMMENTS	FLOOR LEVEL
CH-20	8	HAWORTH	VERY CONFERENCE CHAIR	-	LOWER FLOOR
CH-21 BY OTHER	1	-	-	*SEE NOTE 1	LOWER FLOOR
CH-22 BY OTHER	4	-	-	*SEE NOTE 2	LOWER FLOOR
T-20	1	HAWORTH	IMMERSE SINGLE TABLE - RECTANGLE	ONE PIECE TOP - 60D x 120W x 29H - OBLONG PLANTER	LOWER FLOOR
T-21 BY OTHER	1	-	-	*SEE NOTE 3	LOWER FLOOR
T-22	1	HAWORTH	ASERIES.CRENDENZE - 1.9HIGH - STORAGE END	-	LOWER FLOOR

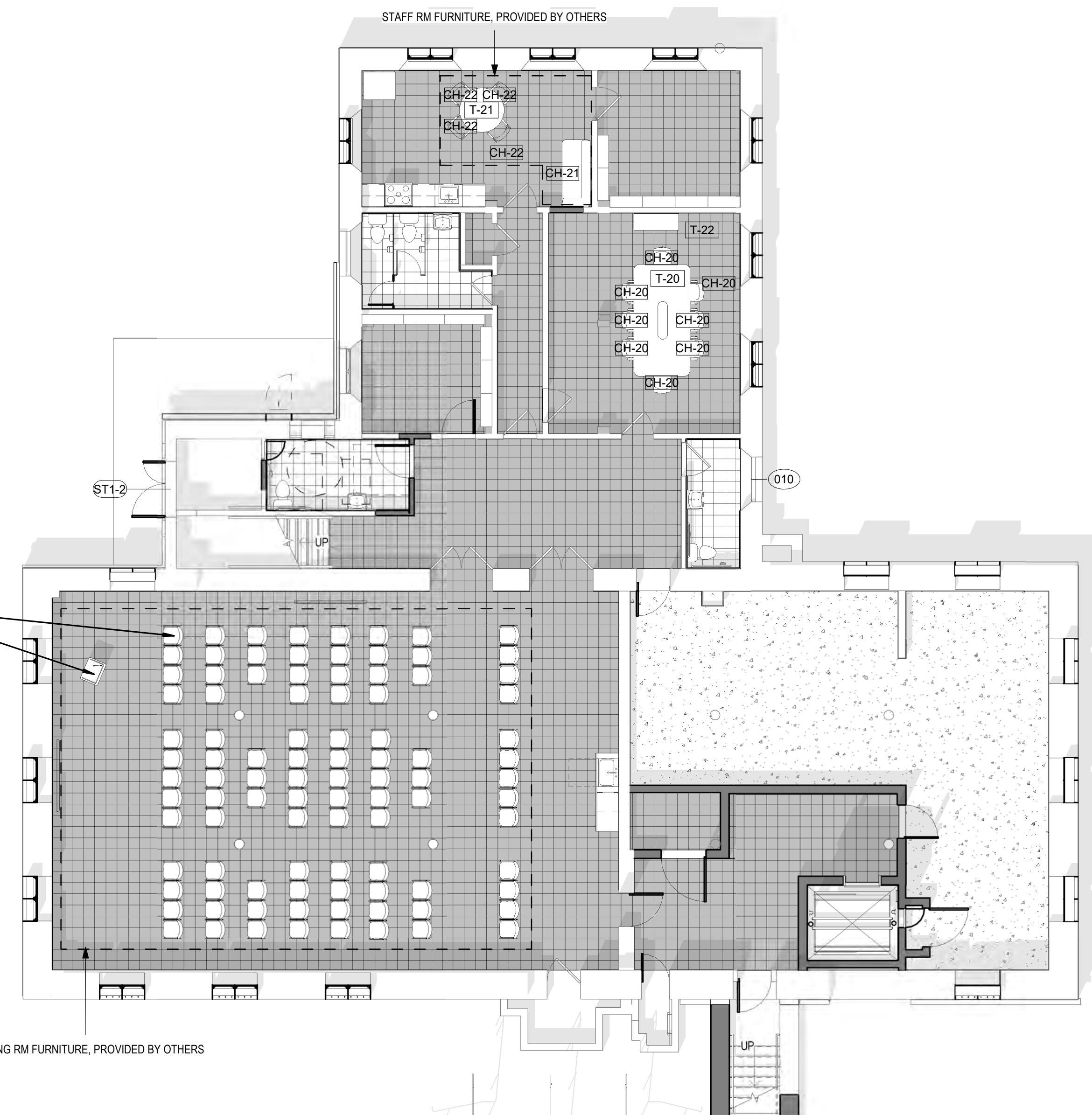
NOTE:
 1. CH-21 - HAWORTH - CABANA LOUNGE (ONE ARM). PENDING OWNER'S DECISION.
 2. CH-22 - HAWORTH - VERY SIDE CHAIR. PENDING OWNER'S DECISION.
 3. T-21 - HAWORTH - JIVE ROUND TABLE. PENDING OWNER'S DECISION.

MOBILE SHELVING SCHEDULE - FIRST FLOOR						
Symbols	Type Mark	Count	MANUFACTURER	DESCRIPTION	COMMENTS	FLOOR LEVEL
[Symbol]	MS-1	2	SPACESAVER	2 SHELVES HIGH 36"W x 24"D x 40"H	WILSONART NEW AGE OAK FINISH	FIRST FLOOR
[Symbol]	MS-2	2	SPACESAVER	2 SHELVES HIGH 72"W x 24"D x 40"H	WILSONART NEW AGE OAK FINISH	FIRST FLOOR
[Symbol]	MS-3	3	SPACESAVER	3 SHELVES HIGH 36"W x 18"D x 53"H	WILSONART NEW AGE OAK FINISH	FIRST FLOOR
[Symbol]	MS-4	3	SPACESAVER	3 SHELVES HIGH 72"W x 18"D x 53"H	WILSONART NEW AGE OAK FINISH	FIRST FLOOR
[Symbol]	MS-5	3	SPACESAVER	3 SHELVES HIGH 36"W x 24"D x 53"H	WILSONART NEW AGE OAK FINISH	FIRST FLOOR
[Symbol]	MS-6	6	SPACESAVER	3 SHELVES HIGH 72"W x 24"D x 53"H	WILSONART NEW AGE OAK FINISH	FIRST FLOOR

NOTE:
 1. ALL HEIGHTS ARE NOMINAL.
 2. PROVIDE CASTORS
 3. PROVIDE 3MM PVC EDGED
 4. SINGLE-FACE SHELVING TO HAVE CLOSED BACKS - FINISH SAME AS TOP AND SIDES
 5. INTEGRAL LOW BACK AND DIVIDERS (PER SHELF LEVEL)
 6. ALLOW FOR TWO ADDITIONAL SHELVES AT (1) MS-3 AND (2) MS-4
 7. SPACESAVER: DIVERSIFIED STORAGE SOLUTIONS, INC. MARK LANZI; 610-547-4625; MARK.LANZI@DIVERSIFIEDSS.COM



1 FIRST FLOOR - FURNITURE PLAN 1
 1/8" = 1'-0"



2 LOWER LEVEL - FURNITURE PLAN 1
 1/8" = 1'-0"

STAMP AREA

REVISIONS

ISSUE	DATE	DESCRIPTION
0	09/07/22	ISSUE FOR BID
1	09/26/22	ISSUE FOR BID



REVIEWED BY:
 PROJECT COORDINATOR:
 SEALS:



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 Philadelphia PA 19103
 www.pennoni.com

LEED CONSULTANT:
 Verde Architecture Consulting
 1635 Market Street Suite 1600
 Philadelphia PA 19103

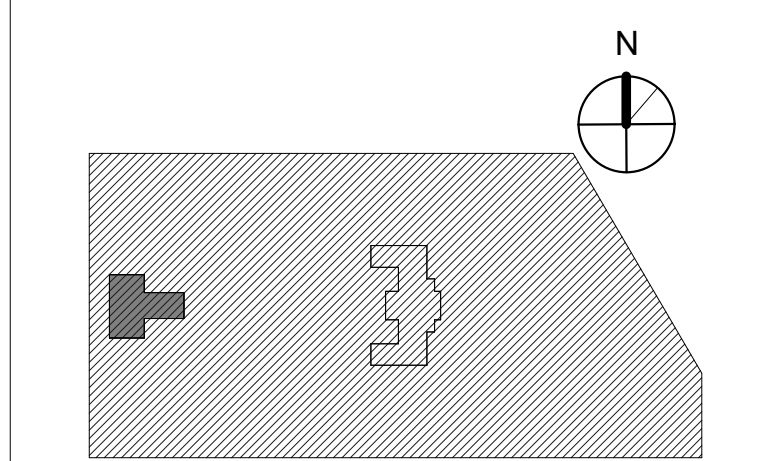


CITY OF PHILADELPHIA
 FREE LIBRARY OF PHILADELPHIA
 1901 VINE ST
 PHILADELPHIA, PA 19103

PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
 KINGSESSING LIBRARY BUILDING
 RENOVATIONS AND SITE
 IMPROVEMENTS

KEY PLAN



DRAWING TITLE
 FURNITURE PLANS

PROJECT NO. 21070 DRAWING NO.

DATE 9/7/22
 SCALE As indicated
 DRAWN BY M.W.
 CHECKED BY D.B.

A811-L

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

FURNITURE AND SHELVING BY FURNITURE VENDOR(S).
 THIS SHEET ISSUED FOR INFORMATION / COORDINATION ONLY



CH-1 HAWORTH JULI CHAIR



CH-2 AND CH-3 HAWORTH OPENEST CHICK POUF



CH-4 & CH-5 HON TANGRAM POUFS



CH-4 -5 -6 -9 HON TANGRAM - HEXAGON POUF, BENCH & STOOP



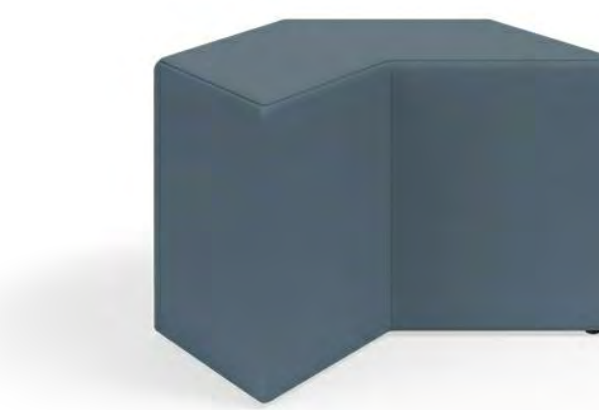
CH-8 HON FIDGET STOOL



CH-10 HON IGNITION TASK CHAIR



CH-11 & CH-12 HON LOW/HIGH BACK ARROW



CH-13 HON TANGRAM POUFS - VARSITY ARROW



CH-14 HON MOTIVATE NESTING/STACKING CHAIR



CH-15 HAWORTH HI PAD STOOL



CH-20 HAWORTH VERY CONFERENCE CHAIR



T-2 HAWORTH BUZZI MILK TABLE



T-5 HAWORTH PLANES TABLE



T-6 HON BIRK TABLE



T-7 HAWORTH POP UP TABLE



T-22 HAWORTH - IMMERSIVE TABLE



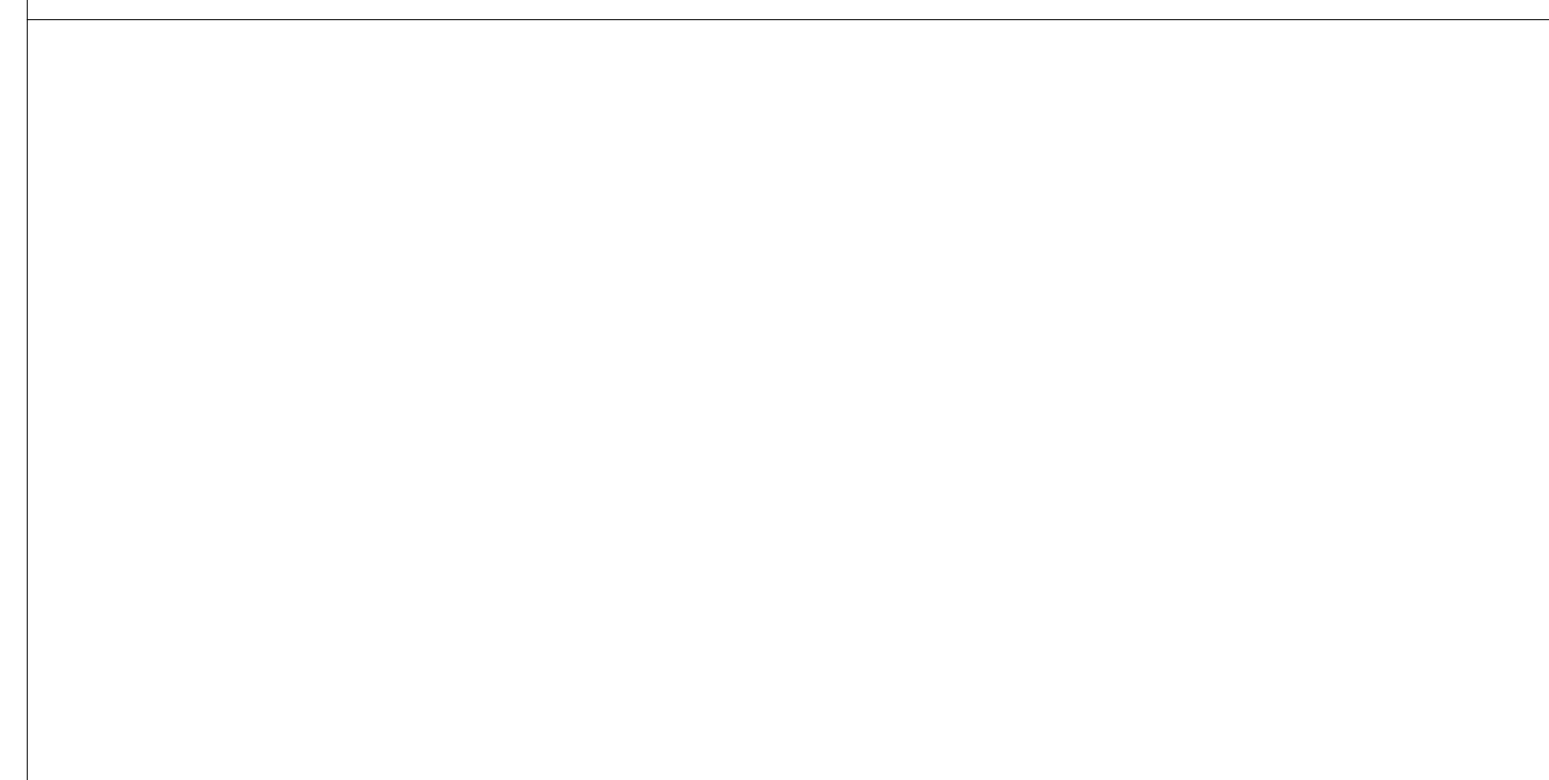
T-22 HAWORTH A SERIES CREENZA



D-1 HAWORTH - ACTIVE - SIT/STAND DESK



STAMP AREA



REVISIONS

ISSUE	DATE	DESCRIPTION
0	09/07/22	ISSUE FOR BID
1	09/26/22	ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR

SEALS



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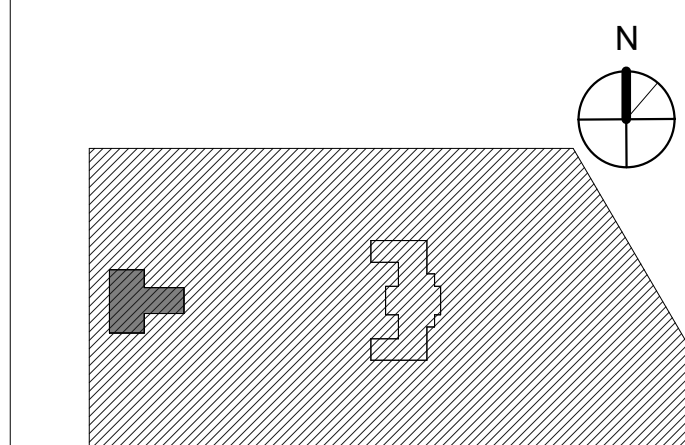


CITY OF PHILADELPHIA
 FREE LIBRARY OF PHILADELPHIA
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 PHILADELPHIA, PA 19103

PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
**KINGSESSING LIBRARY BUILDING
 RENOVATIONS AND SITE
 IMPROVEMENTS**

KEY PLAN



DRAWING TITLE
**PROPOSED FURNITURE
 IMAGES**

PROJECT NO.
21070

DATE 9/7/22

SCALE

DRAWN BY M.W.

CHECKED BY D.B.

DRAWING NO.
A813-L

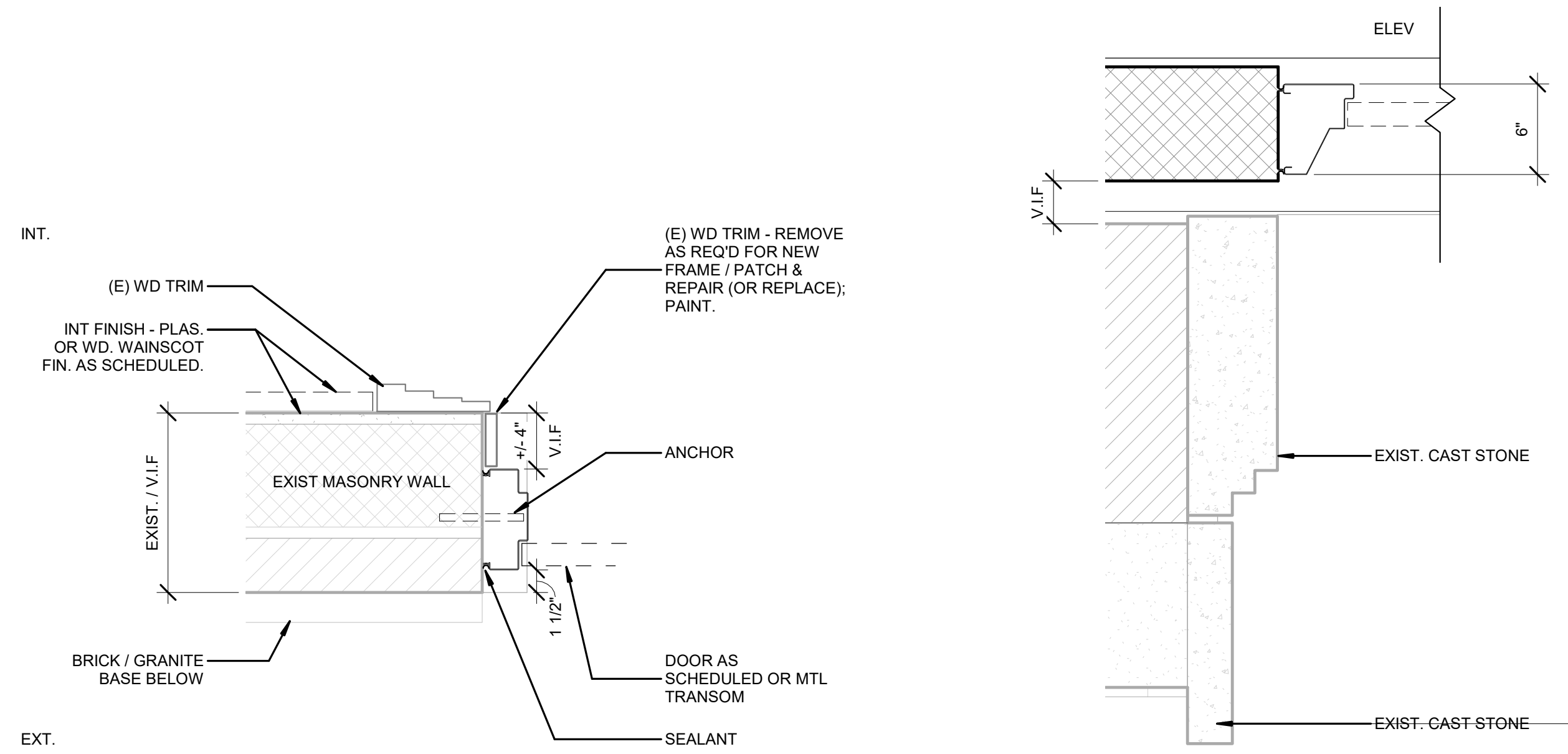
FOR INFORMATION / COORDINATION ONLY

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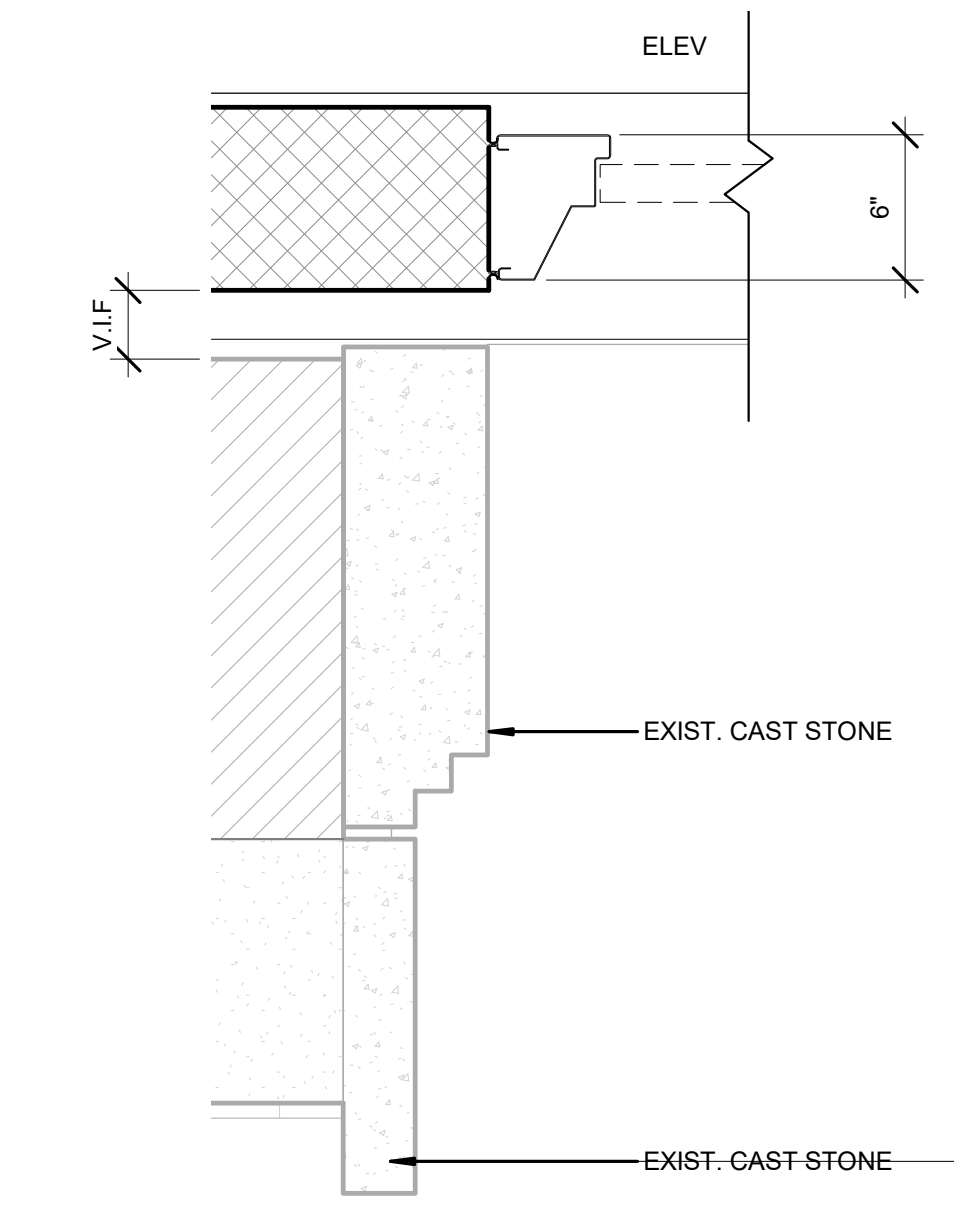
DOOR SCHEDULE													
DOORS	NUMBER	NEW/EXISTING	ROOM NAME	SIZE			VISION PANEL	FRAME		HW SET	RATING	TREATMENT	NOTES
				HEIGHT	WIDTH	THICK		TYPE	MATERIAL				
		N	Low Roof Gate	5' - 8 1/2"	1	2' - 7 1/2"							See low roof fence detail
	001A	E	Meeting Room	7' - 0"	2	2' - 10"		(E) 5	WD	Glass	(E)C	WD	D1, D2, F1, F2
	001B	E	Meeting Room	7' - 0"	2	2' - 10"		(E) 5	WD	Glass	(E)C	WD	D1, D2, F1, F2
	002	E	Closet	7' - 0"	1	3' - 0"	1 3/4"	(E) 6	WD	-	(E)E	WD	D1, D2, F1
	003	N	Roof Access	7' - 0"	1	2' - 6"	1 3/4"	(E) 6	WD	-	(E)E	WD	F1
	004A	N	Vestibule	7' - 0"	1	3' - 0"	2"	3	HM	-	(N) A	HM	45 MIN
	004B	N	Vestibule	7' - 0"	1	3' - 0"	2"	3	HM	-	(N) A	HM	45 MIN
	004C	N	Elevator Door	7' - 0"	1	3' - 0"	1 3/4"	3	HM	-	(N)G	HM	PROVIDE HC PUSH PLATE
	005-1A	N	Boiler Room	7' - 0"	1	3' - 0"	1 3/4"	3	HM	-	(E)J	HM	(E) WD TRIM
	005-2A	N	Boiler Room	7' - 0"	1	3' - 0"	1 3/4"	3	HM	-	(N) A	HM	45 MIN
	005-2B	N	Electrical Room	7' - 0"	1	3' - 6"	1 3/4"	3	HM	-	(N) A	HM	90 MIN
	005-3	N		7' - 0"	1	4' - 0"	2"		HM	-			
	006	E	Corridor	7' - 0"	1	3' - 0"	2"	8A	WD	Glass	(E)E	WD	D1, D2, F1
	007	E	Toilet	7' - 0"	1	3' - 0"	1 3/4"	8B	WD	-	(E)E	WD	D1, D2, F1, D4
	008A	E	Conf Room	7' - 0"	1	2' - 10"	2"	6	WD	-	(E)D	WD	D1, D2, F1
	008B	E	Conf Room	7' - 0"	1	3' - 0"	1 3/4"	6	WD	-	(E)D	WD	D1, D2, F1
	010	E	Stor	7' - 0"	1	3' - 0"	2"	6	WD	-	(E)E	WD	D1, D2, F1
	011	E	Staff Room	7' - 0"	1	3' - 0"	1 3/4"	7	WD	Glass	(E)D	WD	D1, D2, F1
	012	E	Clos.	7' - 0"	1	2' - 10"	2"	6	WD	-	(E)D	WD	D1, D2, F1
	013	E	Toilet	7' - 0"	1	2' - 8"	2"	7	WD	-	(E)D	WD	D1, D2, F1, D4
	015	E	Guard Room	7' - 0"	1	3' - 0"	1 3/4"	3	WD	-	(E)E	WD	D4
	016A	N	Toilet	7' - 0"	1	3' - 0"	1 3/4"	6	WD	-	(N)E	WD	D4
	016B	N	Toilet Access Panel	4' - 0"	1	1' - 8"			WD	-	(N)E	WD	REMOVE (E) DR&FRAME, INFILL WALL
	101A	N	Vestibule	9' - 4"	2	2' - 9"	1 3/4"	1	ALUM	Glass	E(F)	WD	D1, D2, F1, F3
	101B	N	Vestibule	9' - 4"	2	2' - 6"	1 3/4"	2	WD	Glass	E(F)	WD	D1, D2, F1
	103	N	Staff Room	7' - 0"	1	3' - 0"	1 3/4"	3	WD	-	(N)E	WD	D4
	104	N	Public Toilet	7' - 0"	1	3' - 0"	1 3/4"	4	WD	-	(N)E	WD	D4
	108	E	Jan Clo.	7' - 0"	1	2' - 0"	2"	7	WD	-	(E)E	WD	D1, D2, F1
	201	E	Attic	4' - 0"	1	2' - 0"	2"						(E) TO REMAIN; NO WORK
	202	E	Attic	4' - 0"	1	2' - 0"	2"						(E) TO REMAIN; NO WORK
	213	E		4' - 10"	1	2' - 2"	1"						
	ST1-1	N	ST1-M	7' - 0"	2	2' - 6"	1 3/4"	2	WD	Glass	(E)D	WD	D1, D2, F1
	ST1-2	N	ST1-M	7' - 0"	2	2' - 6"	1 3/4"	3	HM	Glass	(N)B	HM	

- NOTES:
- (X) Y = (NEW OR EXISTING) FRAME TYPE
 - ALL NEW DOORS AND FRAME (WOOD AND HOLLOW METAL) TO BE PAINTED. SEE FINISH AND PAINT SCHEDULE.

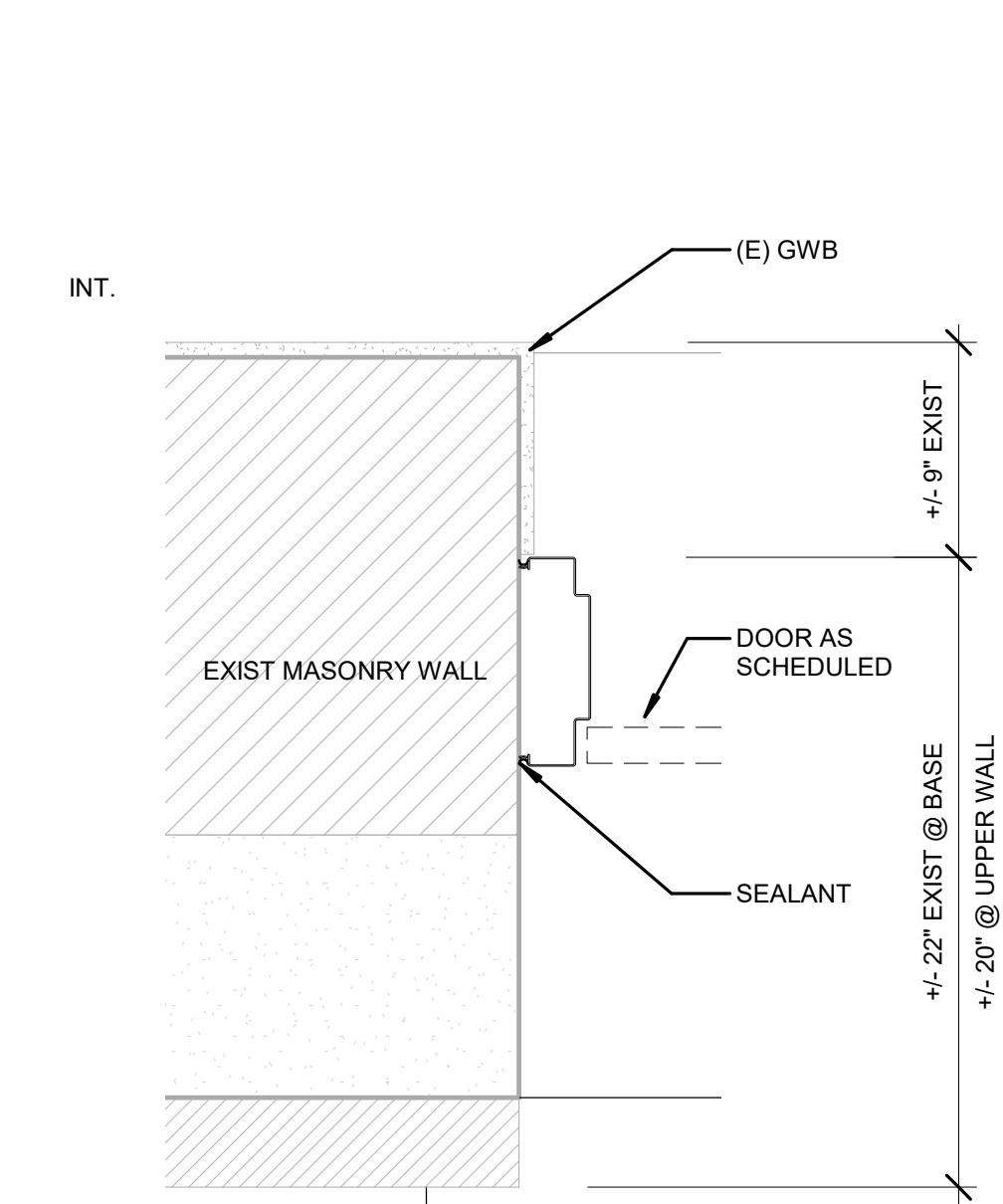
- TREATMENT LEGEND (EXISTING DOORS AND FRAMES)
- REFINISH (E) DOOR. REMOVE EXIST. FINISH, SAND SMOOTH, PREP, PRIME, AND PAINT.
 - PREP EXISTING DOOR FOR NEW HARDWARE.
 - REPAIR DOOR - SEE COMMENTS.
 - UNDERCUT BOTTOM OF DOOR FOR VENTILATION BY 3/4"
 - REFINISH (E) FRAME. REMOVE FINISH, SAND SMOOTH, PREP, PRIME AND PAINT.
 - REPAIR FRAME. SEE COMMENTS.
 - CONSOLIDATE FRAME. SEE COMMENTS.



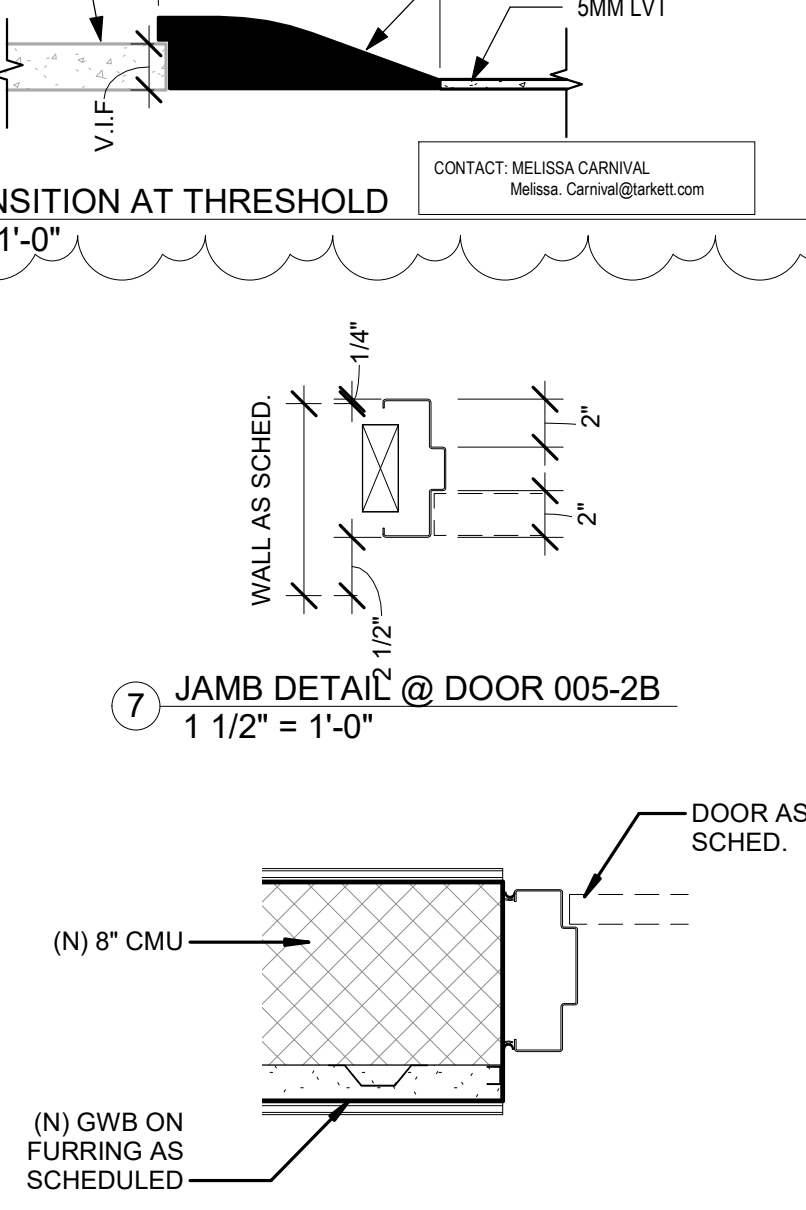
1 JAMB/HEAD SIM DTL - STAIR DOOR - HEAD SIM
1 1/2" = 1'-0"



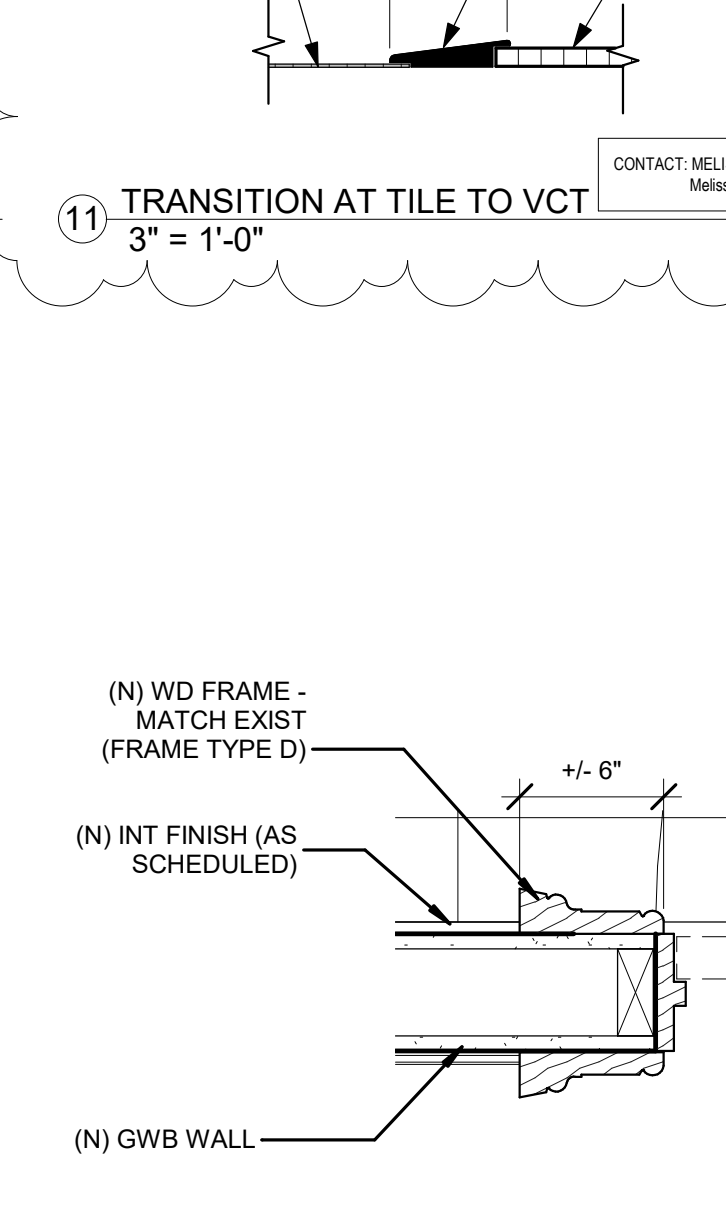
2 JAMB DETAIL @ EXT. ELEVATOR DR - HEAD SIM
1 1/2" = 1'-0"



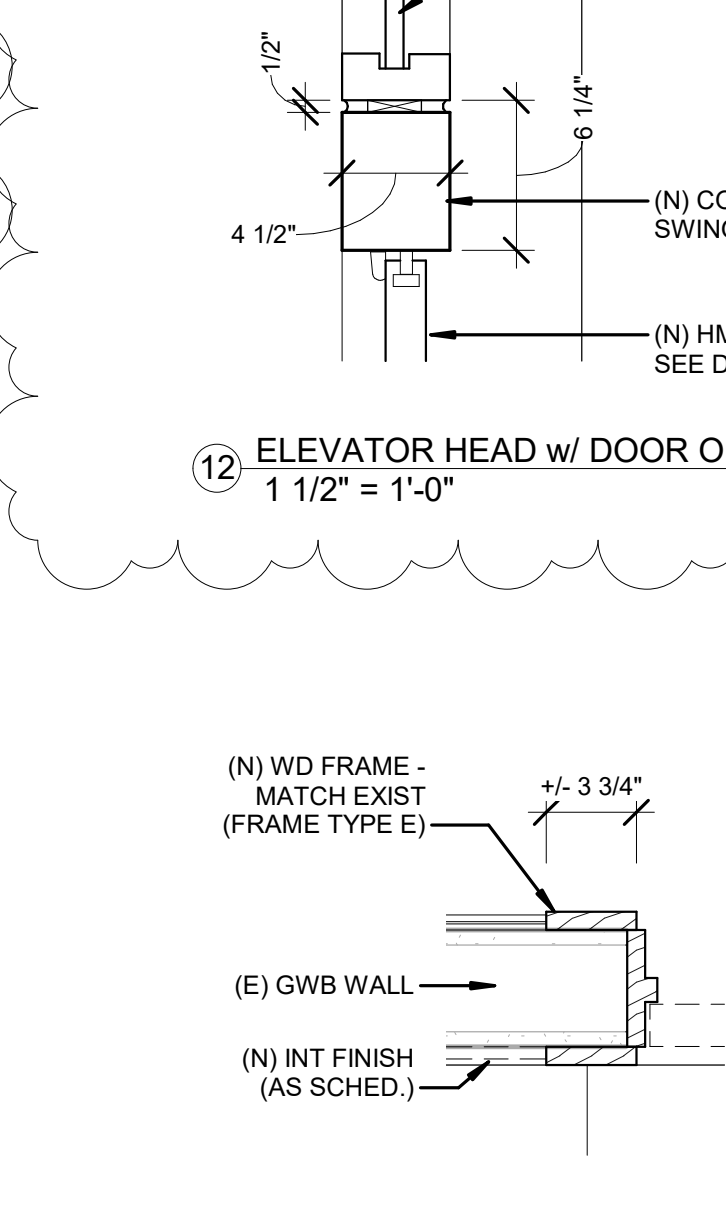
3 JAMB DETAIL @ DOOR 004B
1 1/2" = 1'-0"



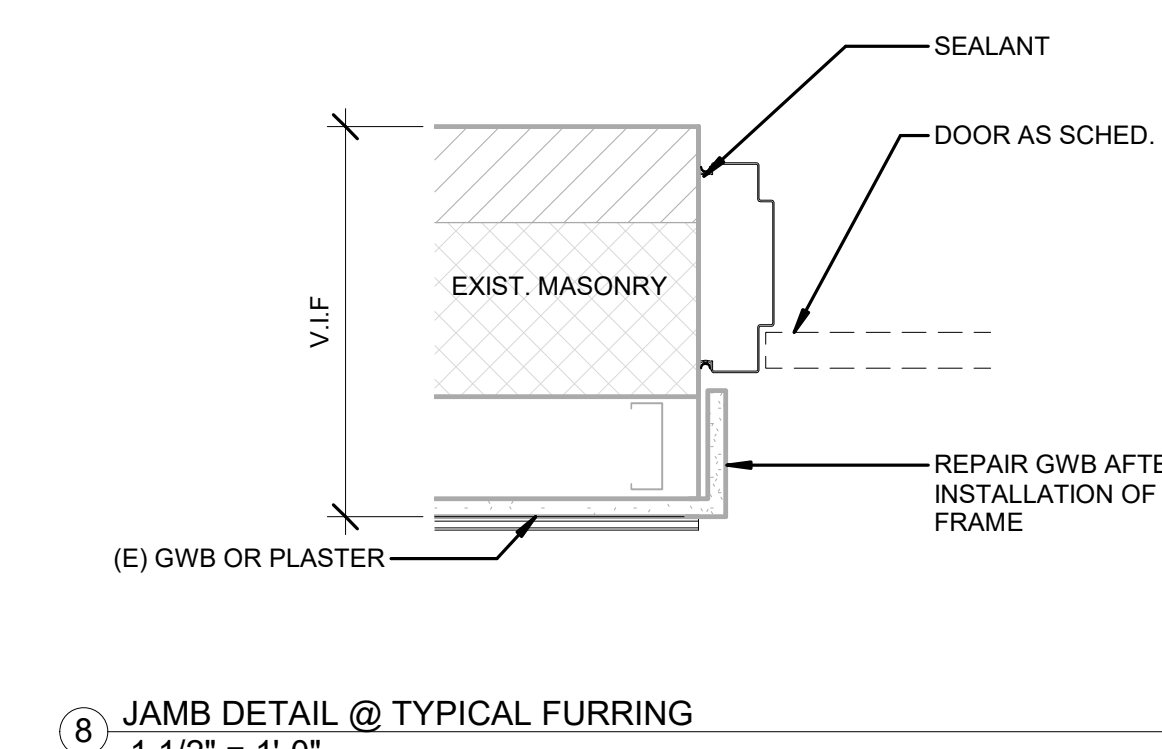
4 JAMB DETAIL @ DOOR 005-2A
1 1/2" = 1'-0"



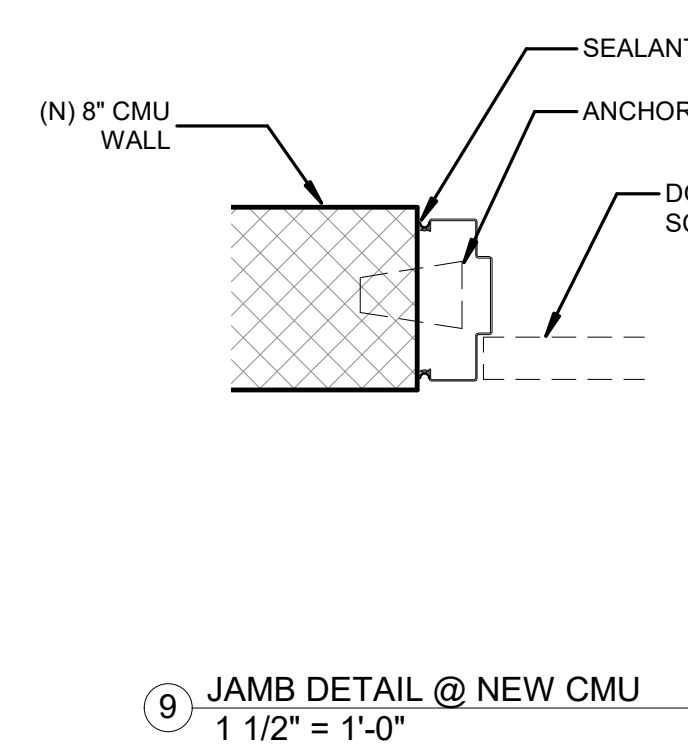
5 JAMB DETAIL @ DOOR 016A
1 1/2" = 1'-0"



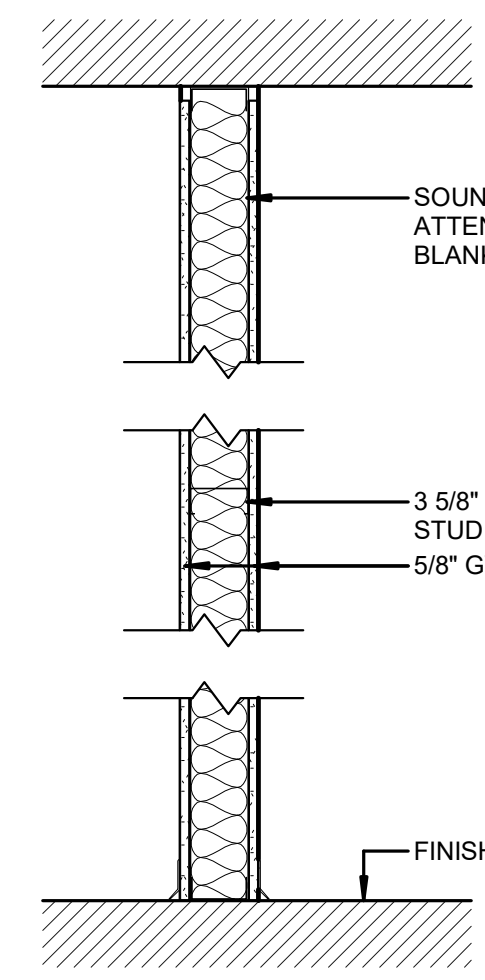
6 JAMB DETAIL @ DOOR 104
1 1/2" = 1'-0"



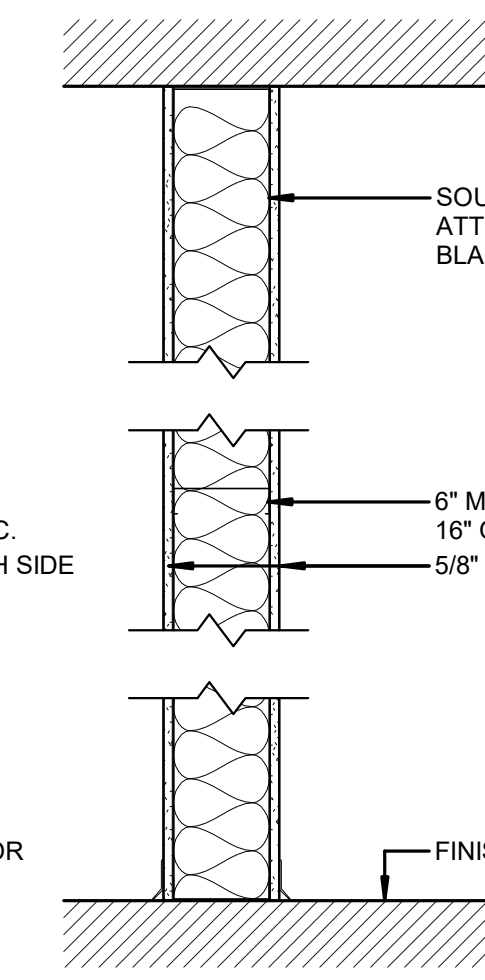
8 JAMB DETAIL @ TYPICAL FURRING
1 1/2" = 1'-0"



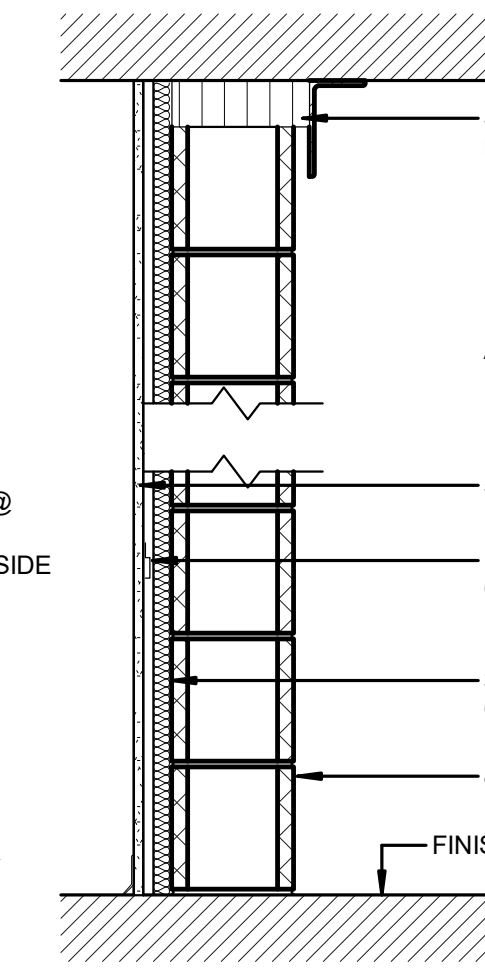
9 JAMB DETAIL @ NEW CMU
1 1/2" = 1'-0"



PARTITION TYPE 1

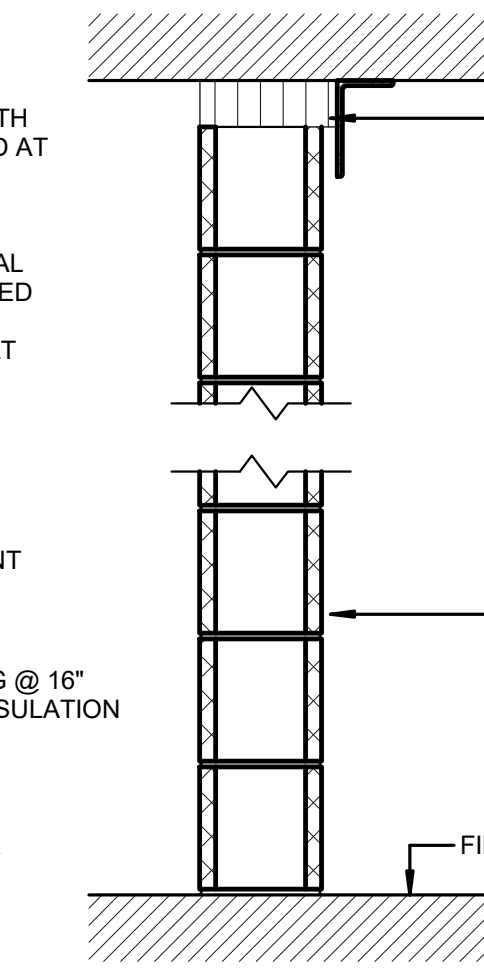


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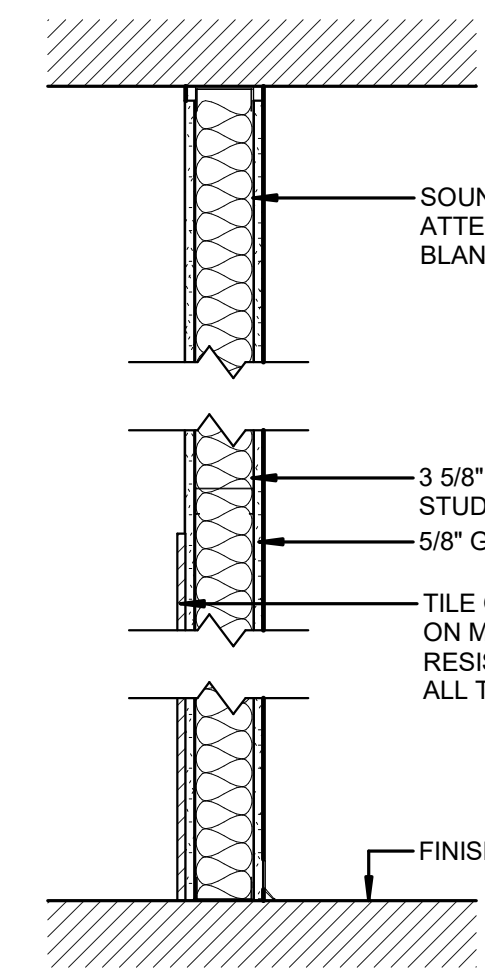
CMU WALL 1 HR. RATED, UL

PARTITION TYPE 3

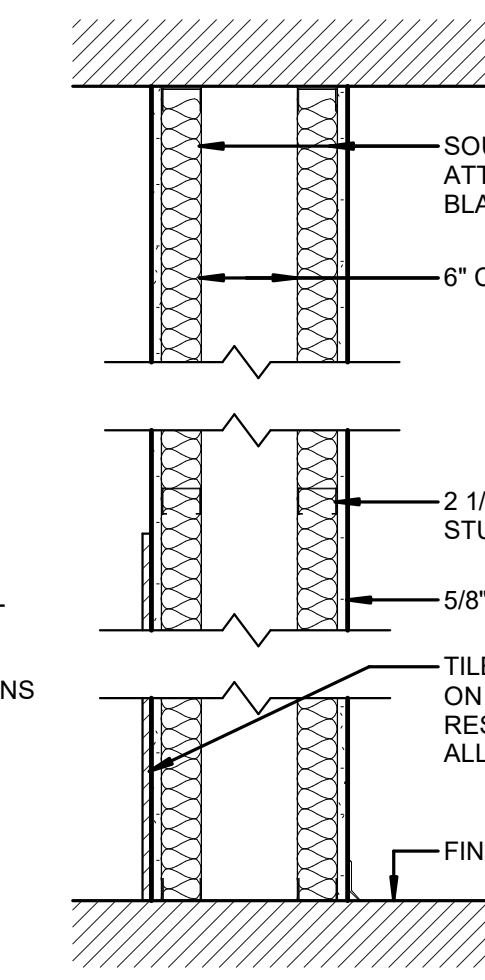


CMU WALL, 1 HR. RATED, UL

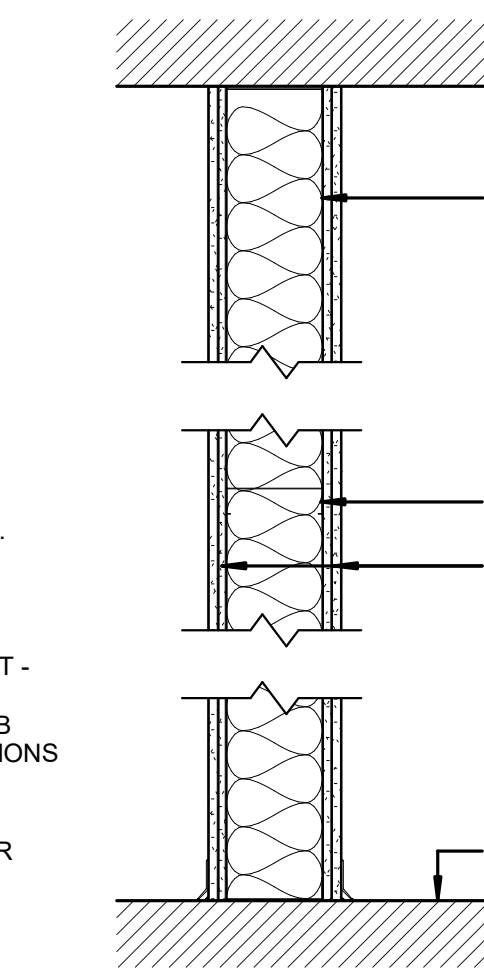
PARTITION TYPE 4



PARTITION TYPE 5

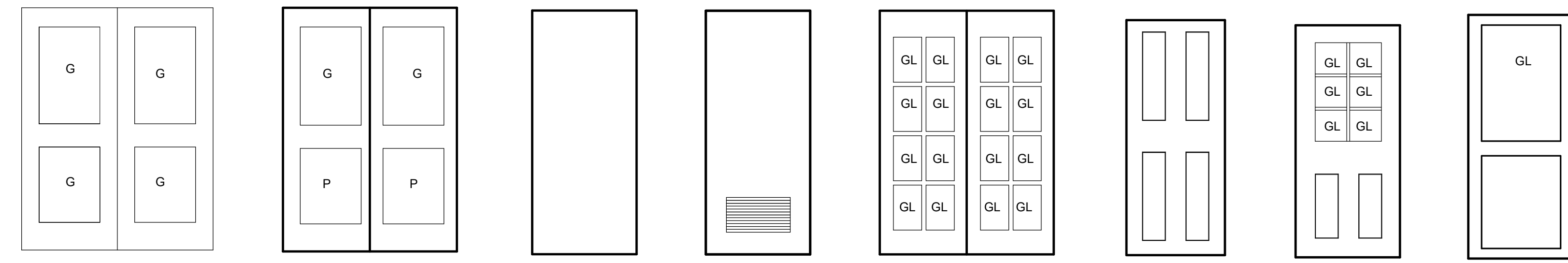


PARTITION TYPE 6

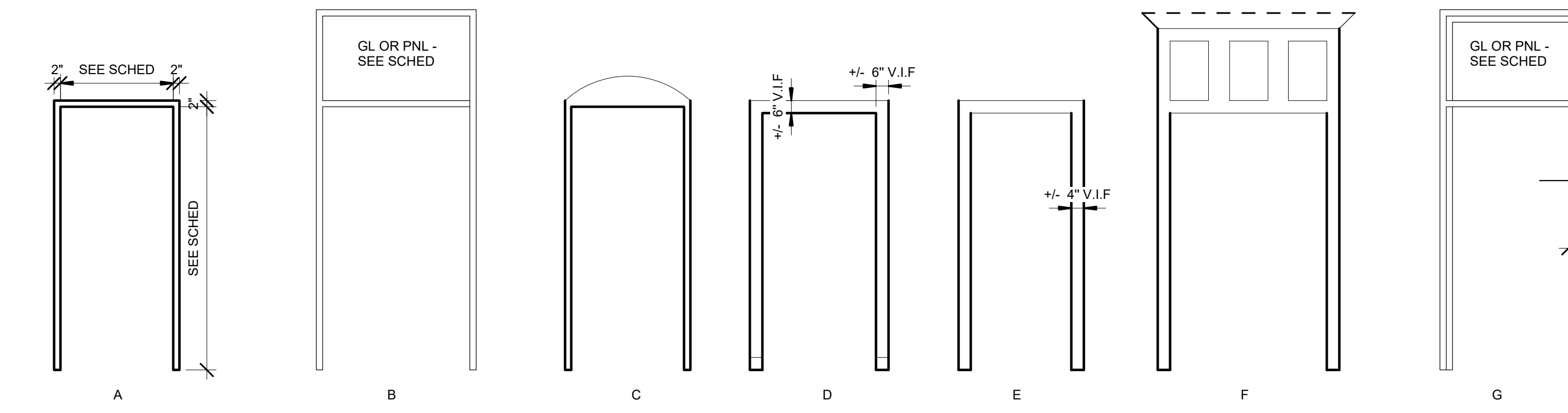


1 HR. RATED, UL

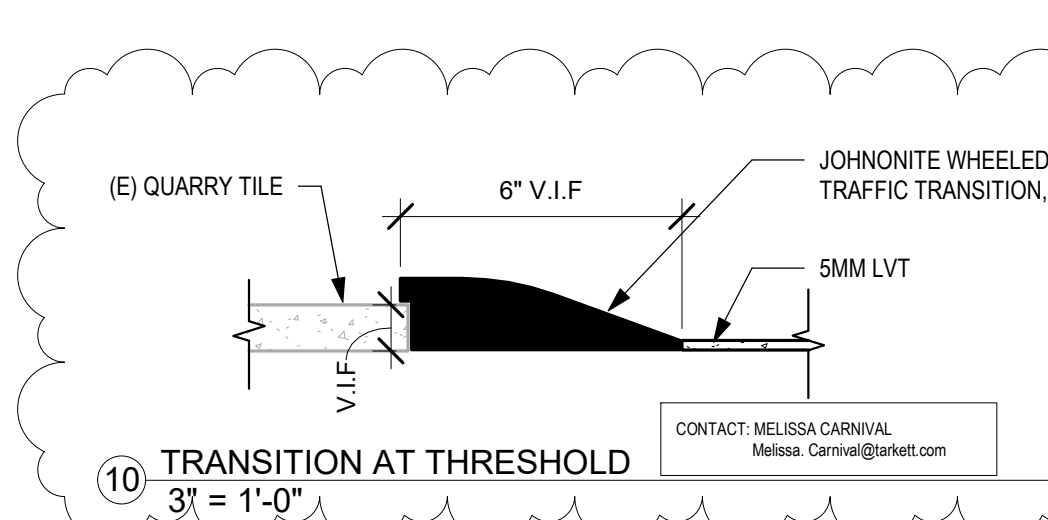
PARTITION TYPE 7



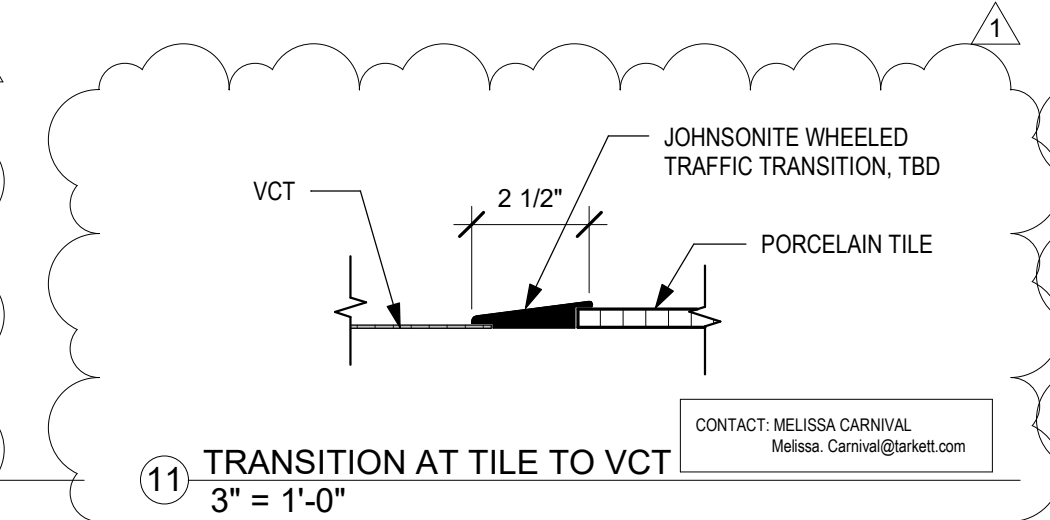
DOOR TYPES



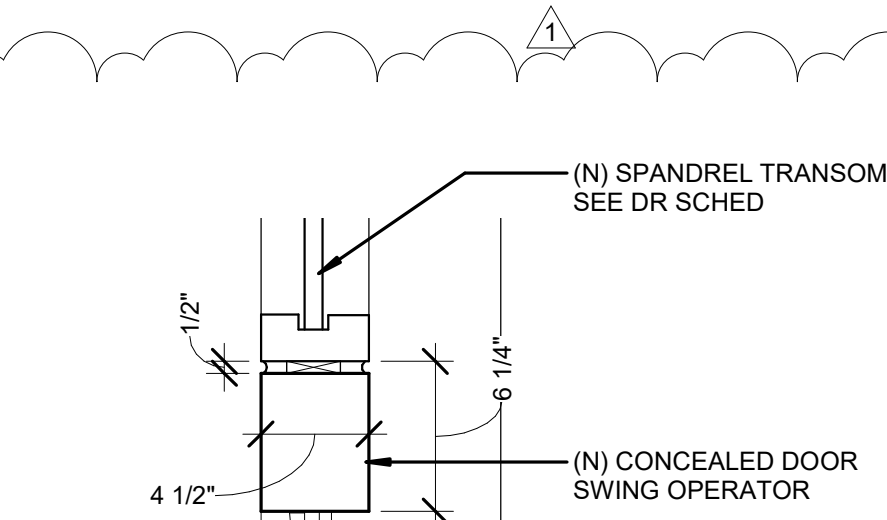
FRAME TYPES



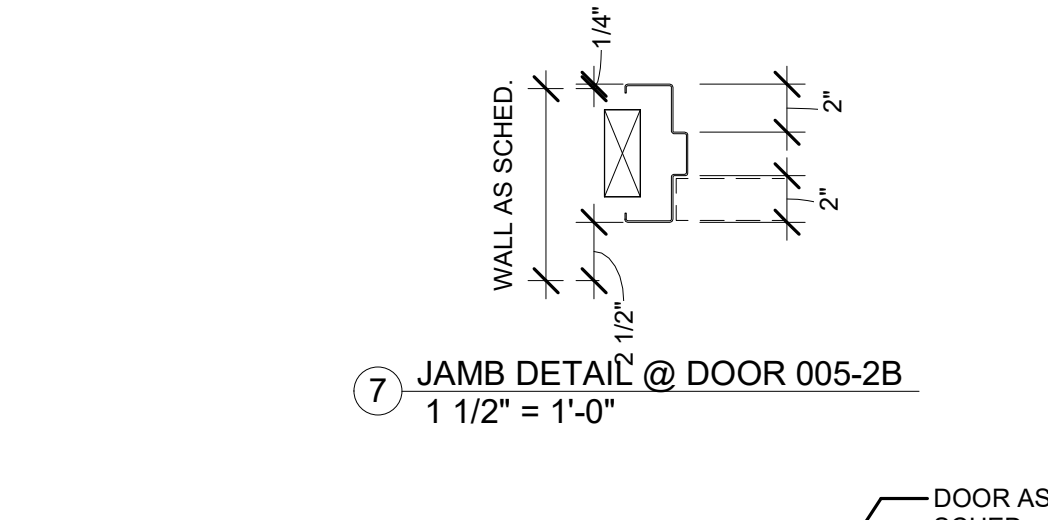
10 TRANSITION AT THRESHOLD
3\"/>



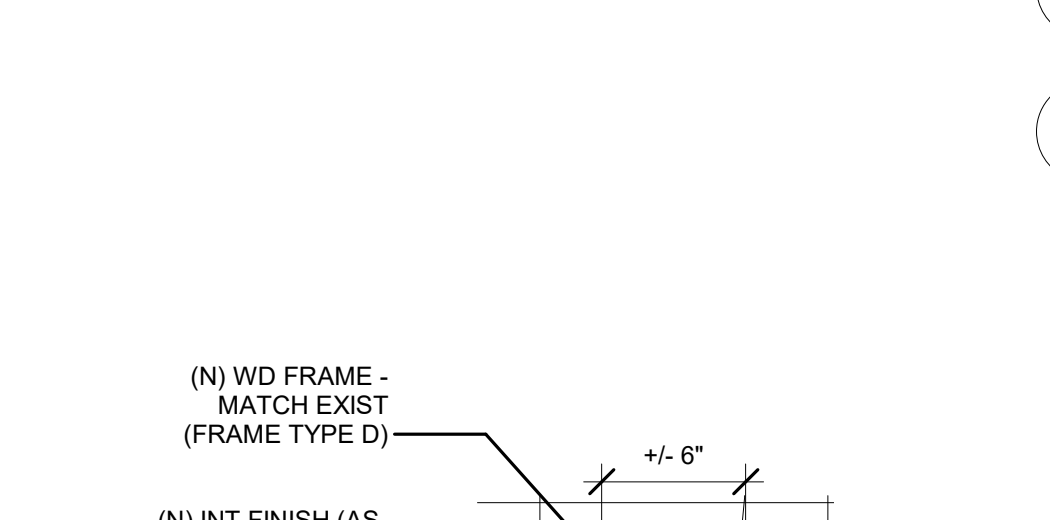
11 TRANSITION AT TILE TO VCT
3\"/>



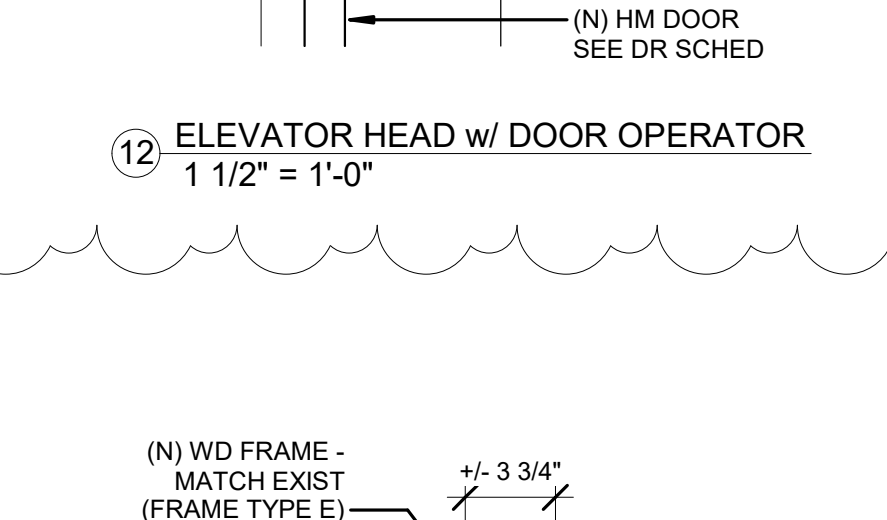
12 ELEVATOR HEAD w/ DOOR OPERATOR
1 1/2\"/>



7 JAMB DETAIL @ DOOR 005-2B
1 1/2\"/>



5 JAMB DETAIL @ DOOR 016A
1 1/2\"/>



6 JAMB DETAIL @ DOOR 104
1 1/2\"/>

STAMP AREA

REVISIONS

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0	09/07/22	ISSUE FOR BID
1	09/26/22	ISSUE FOR BID



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PROJECT COORDINATOR

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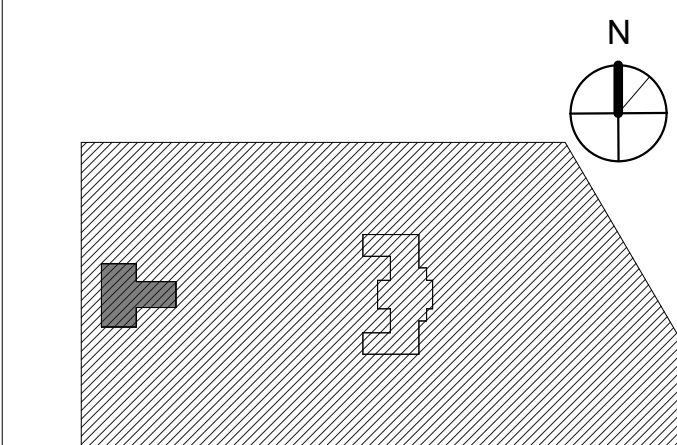


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PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS

KEY PLAN



DRAWING TITLE
DOOR AND PARTITION
SCHEDULES

PROJECT NO. 21070 DRAWING NO.

DATE 9/7/22

SCALE As indicated

DRAWN BY P.B.

CHECKED BY D.B.

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

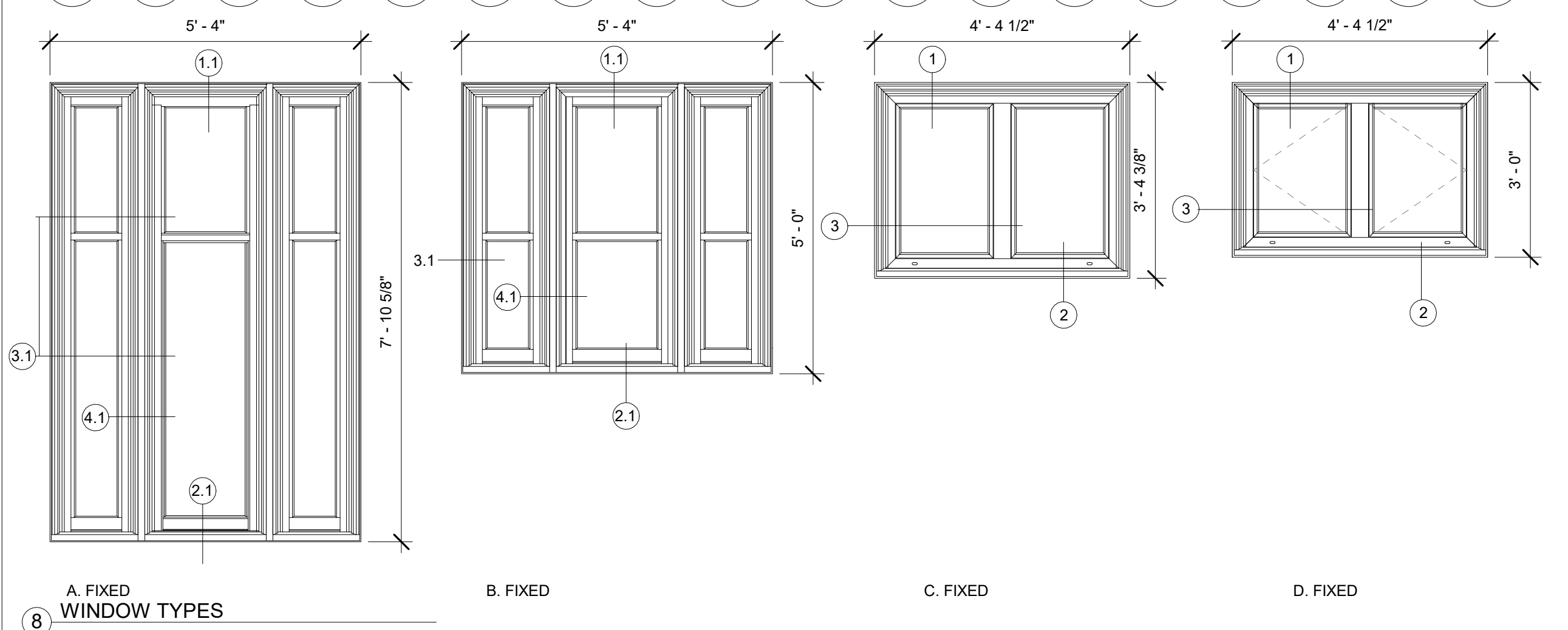
A901-L

WINDOW SCHEDULE

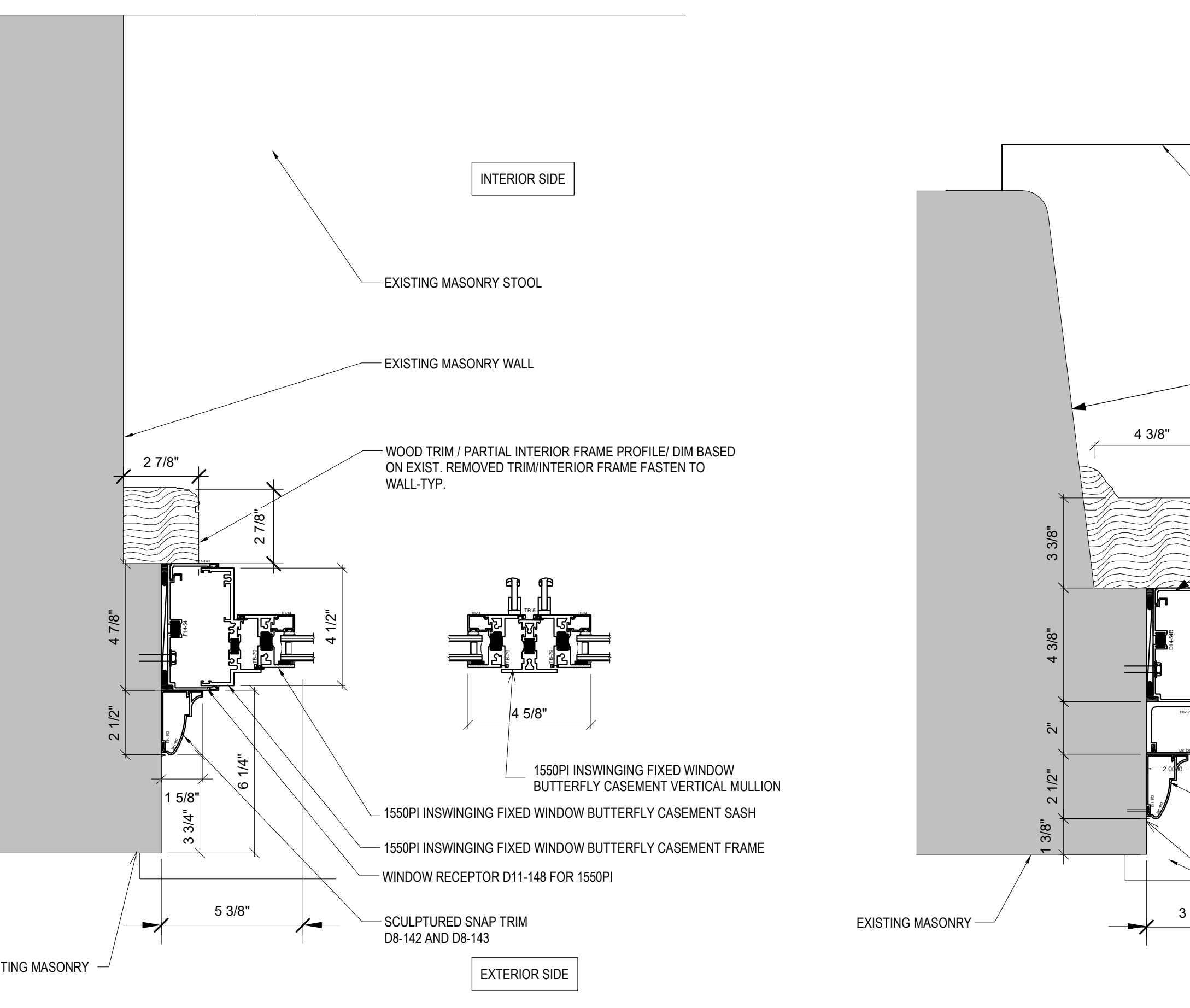
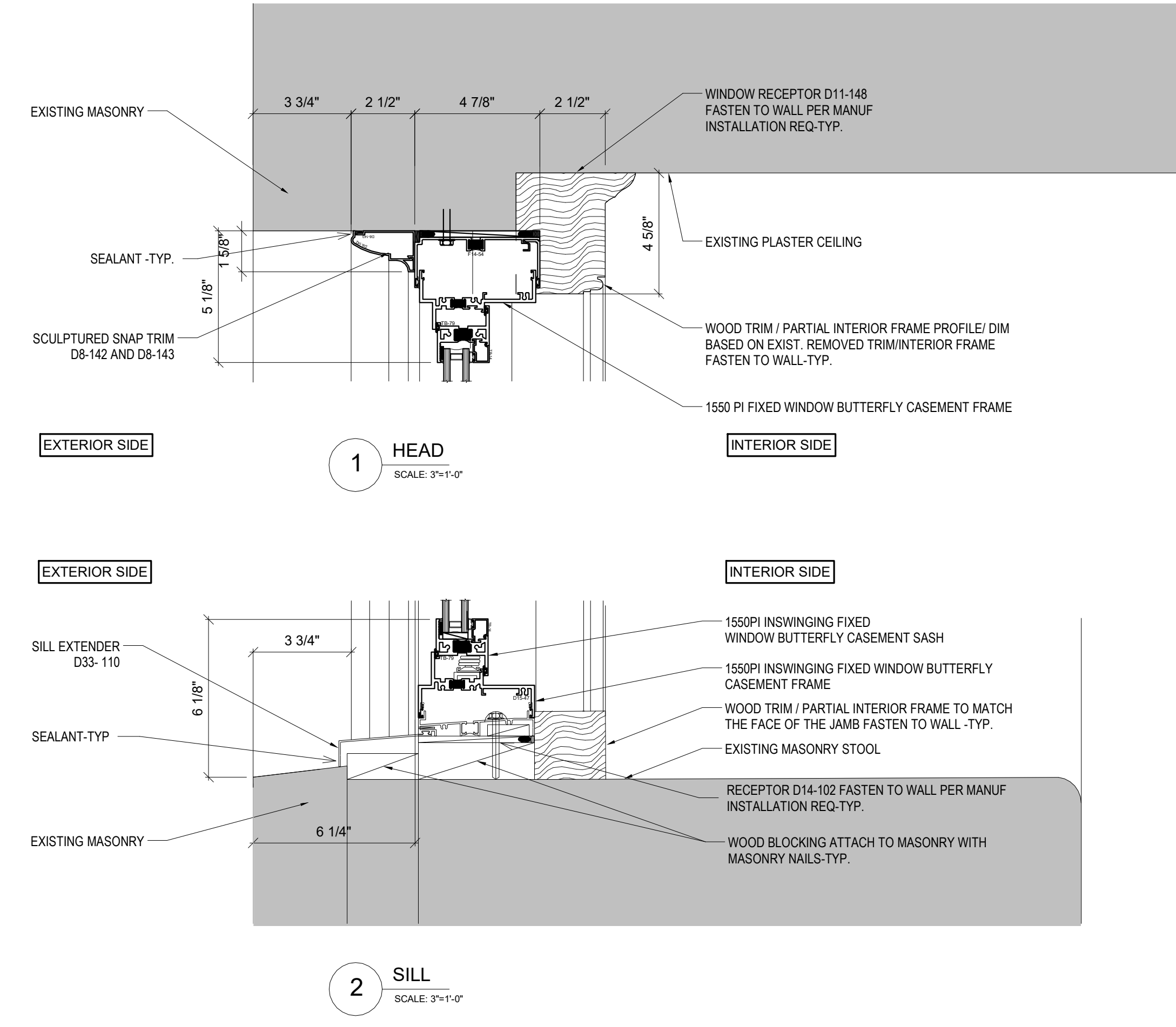
WINDOW DETAILS NOTED ON WDW TYPES ON THIS SHEET

NO.	TYPE	MAS. OPG.	MAT	HEAD	JAMB/ MULLION	SILL	GLAZING	NOTES
001	DO	4'-0"W X 3'-0"H	MTL	1	3	2	INSUL GL	Exist. security bars attached to masonry wall
002	DO	4'-0"W X 3'-0"H	MTL	1	3	2	INSUL GL	Exist. security bars attached to masonry wall
003	DO	4'-0"W X 3'-0"H	MTL	1	3	2	INSUL GL	Exist. security bars attached to masonry wall
004	C	4'-0"W X 3'-5"H*	MTL	1	3	2	INSUL GL	Security bars to match 003 attached to masonry wall
005	C	4'-0"W X 3'-5"H*	MTL	1	3	2	INSUL GL	Security screen attached to masonry wall**
006	LVR	4'-0"W X 3'-5"H*	MTL	10	N/A	10	N/A	Louver for Mechanical Ducts
007	LVR	4'-0"W X 3'-5"H*	MTL	11	N/A	11	N/A	Louver for Mechanical Ducts*
008	LVR	4'-0"W X 3'-5"H*	MTL	11	N/A	11	N/A	Louver for Mechanical Ducts*
009	LVR	4'-0"W X 3'-5"H*	MTL	10	N/A	10	N/A	Louver for Mechanical Ducts
010	C	4'-0"W X 3'-5"H*	MTL	1	3	2	INSUL GL	Security screen attached to masonry wall**
011	DO	4'-0"W X 3'-0"H	MTL	1	3	2	INSUL GL	Security screen attached to masonry wall**
012	DO	4'-0"W X 3'-0"H	MTL	1	3	2	INSUL GL	Security screen attached to masonry wall**
013	DO	4'-0"W X 3'-0"H	MTL	1	3	2	INSUL GL	Security screen attached to masonry wall**
014	D	4'-0"W X 3'-0"H	MTL	1	3	2	INSUL GL	Security screen attached to masonry wall**
015	DO	4'-0"W X 3'-0"H	MTL	1	3	2	INSUL GL	Security screen attached to masonry wall**
016	D	4'-0"W X 3'-0"H	MTL	1	3	2	INSUL GL	Security screen attached to masonry wall**
017	DO	4'-0"W X 3'-0"H	MTL	1	3	2	INSUL GL	Security screen attached to masonry wall**
018	LVR	4'-0"W X 3'-0"H	MTL	11	N/A	11	N/A	Louver for Mechanical Ducts*
019	MAS	4'-0"W X 3'-0"H	MAS	N/A	N/A	N/A	N/A	Stucco over CMU infill (1" recess)
019A	LVR	4'-0"W X 3'-0"H	MTL	11	N/A	11	N/A	Louver for Mechanical Ducts*
020	C	4'-0"W X 3'-5"H*	MTL	1	3	2	INSUL GL	Security screen attached to masonry wall**
021	DO	4'-0"W X 3'-0"H	MTL	1	3	2	INSUL GL	Security screen attached to masonry wall**
022	D	4'-0"W X 3'-0"H	MTL	1	3	2	INSUL GL	Security screen attached to masonry wall**
023	DO	4'-0"W X 3'-0"H	MTL	1	3	2	INSUL GL	Security screen attached to masonry wall**
ST01	MAS		MAS	N/A	N/A	N/A	N/A	Stucco over CMU infill (1" recess)
101	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
102	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
103	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
104	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
105	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	With Translucent Glass
106	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
107	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
108	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
109	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
110	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
111	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
112	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
113	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
114	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
115	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
116	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
117	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
118	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
119	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
120	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
121	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
122	B	5'-4"W X 5'-0"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
123	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
123B	MAS	3'-0"W X 5'-0"H	MAS	MAS	MAS	MAS	MAS	Stucco over CMU infill (1" recess)
124	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
125	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
126	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	
127	A	5'-4"W X 7'-11 1/2"H	MTL	1.1	3.1 + 4.1	2.1	INSUL GL	

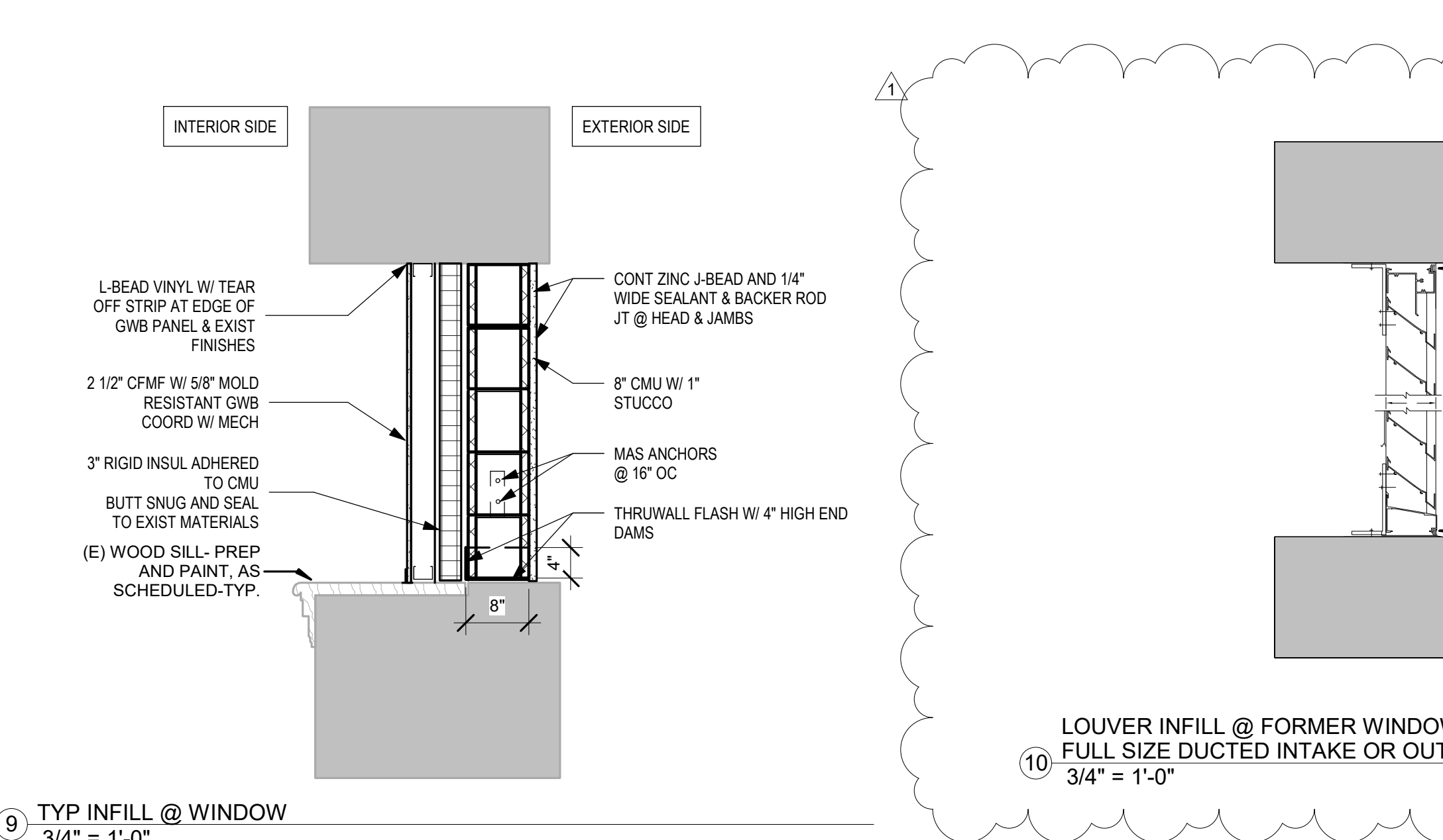
* with new rigid bd. Insulation and 2 1/2" mtl stud behind non ducted areas
 **security screens shall be new per basis of design/specifications.



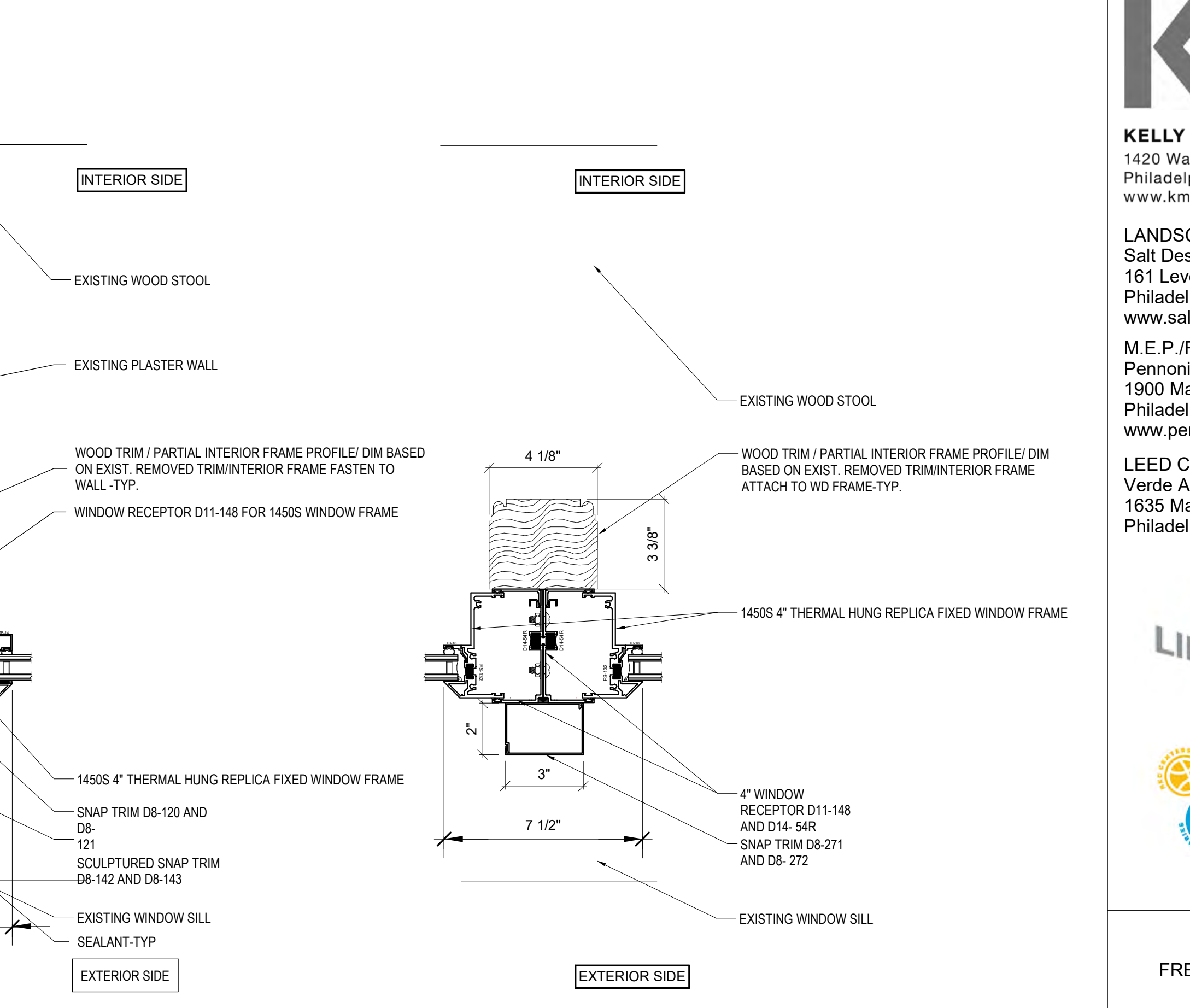
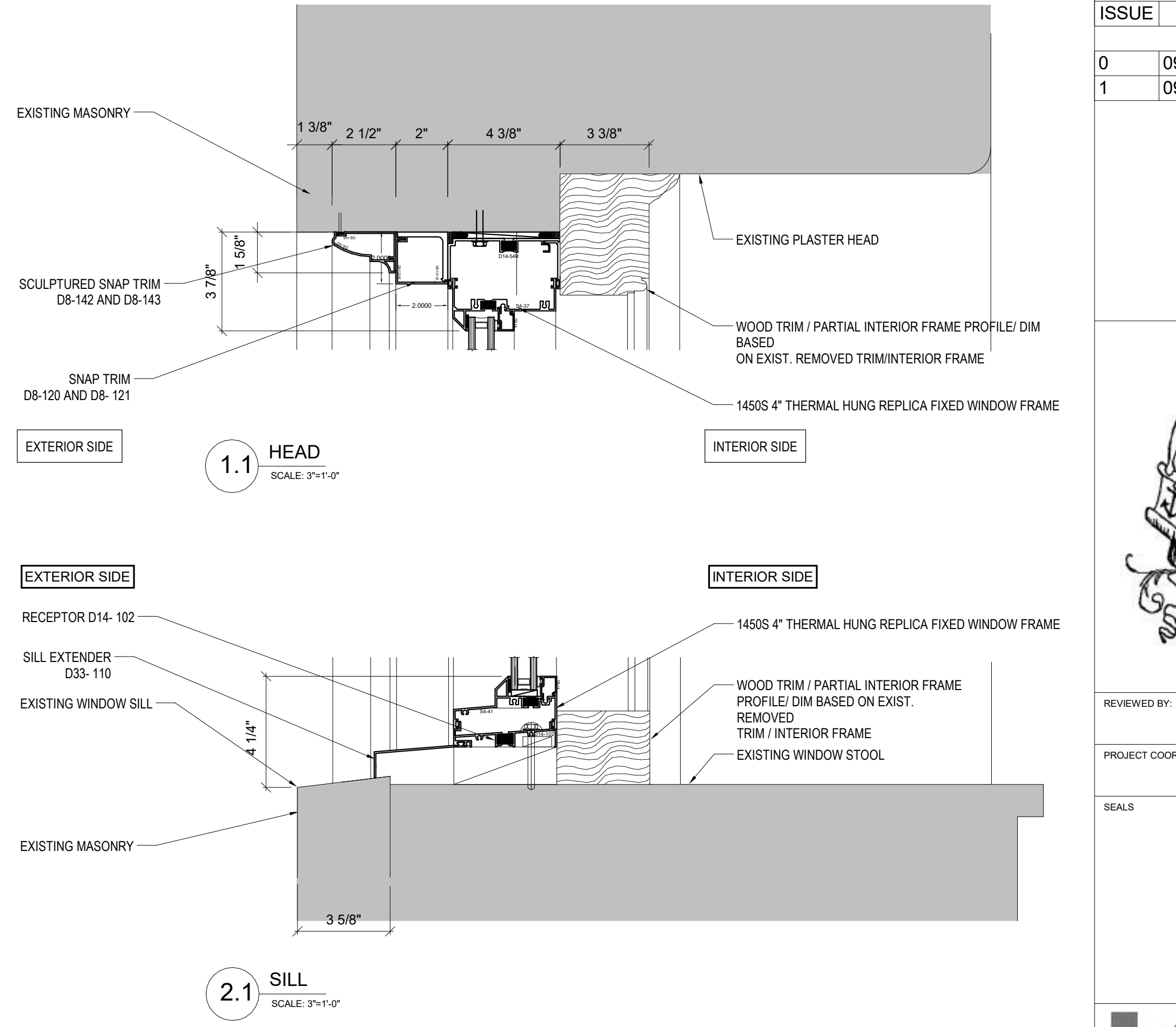
STAMP AREA



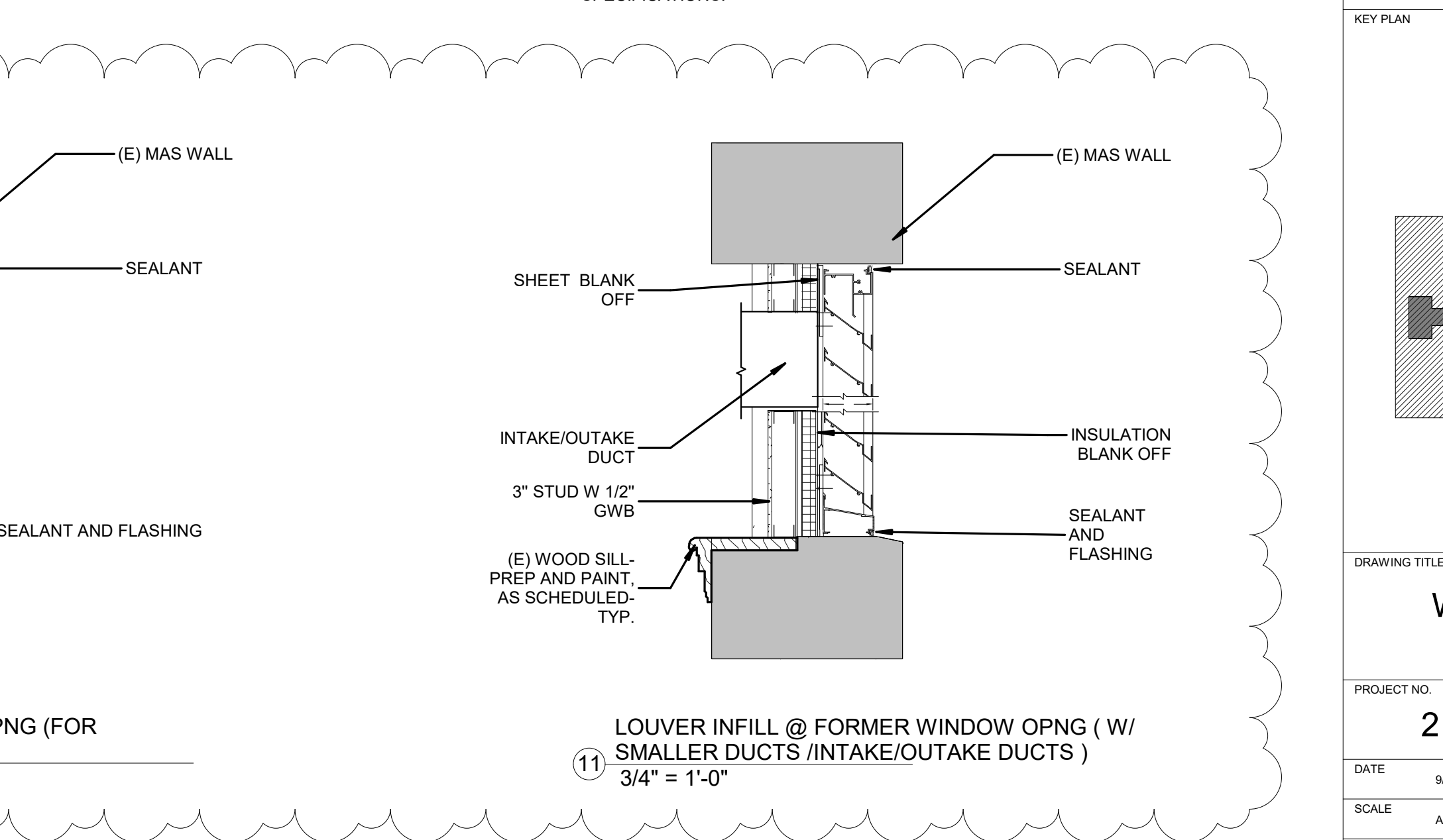
INSWINGING BUTTERFLY CASEMENT - FIXED



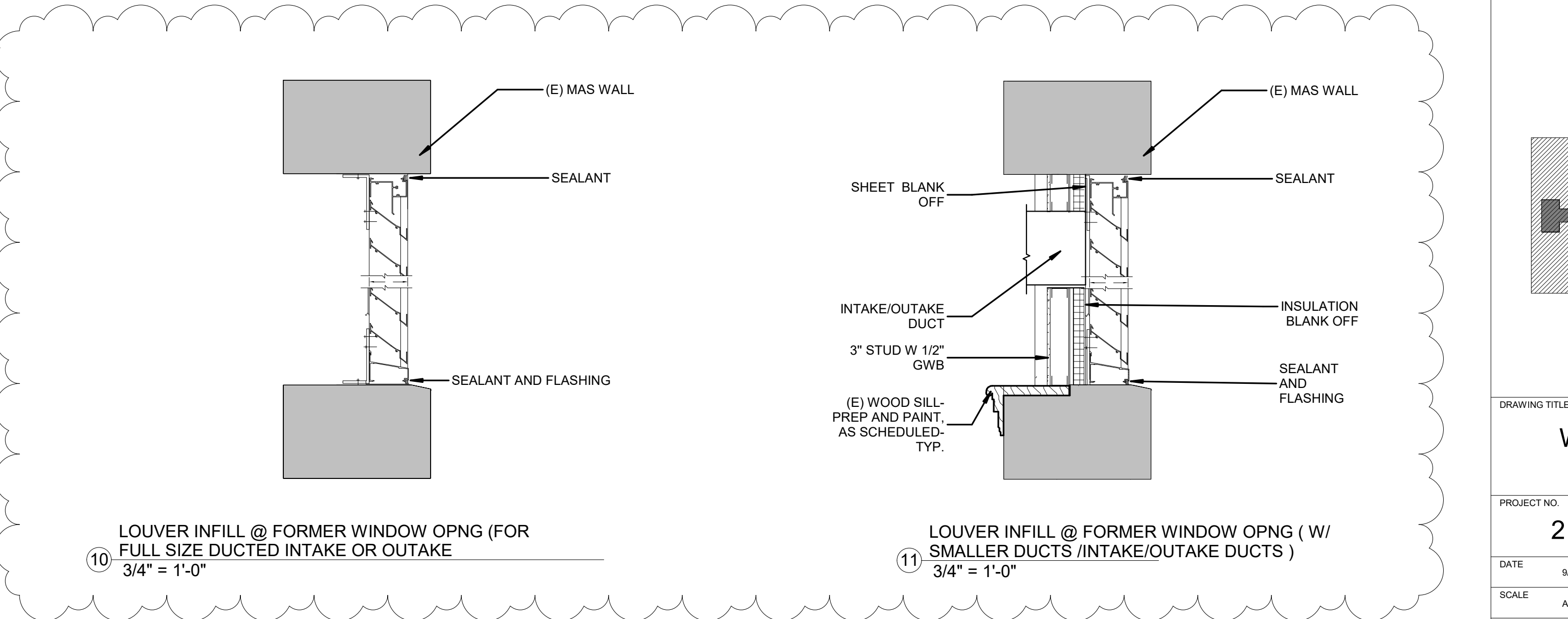
9 TYP INFILL @ WINDOW 3/4" = 1'-0"



OFFSET "DH" WINDOW - FIXED



4.1 VERTICAL MULLION 3/4" = 1'-0"



10 LOUVER INFILL @ FORMER WINDOW OPNG (FOR FULL SIZE DUCTED INTAKE OR OUTAKE) 3/4" = 1'-0"

REVISIONS

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1	09/26/22	ISSUE FOR BID



REVIEWED BY:
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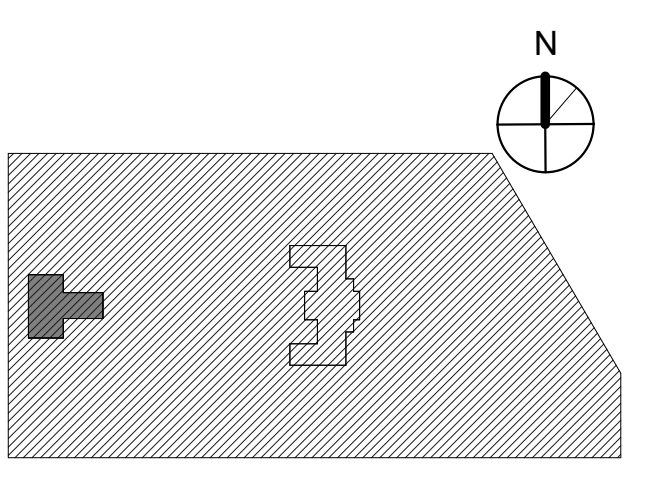
LEED CONSULTANT:
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KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS

KEY PLAN



DRAWING TITLE
WINDOW SCHEDULE

PROJECT NO: **21070** DRAWING NO:
 DATE: 9/7/22
 SCALE: As indicated
 DRAWN BY: P.B.
 CHECKED BY: D.B.

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

A902-L

REVISIONS

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1	09/26/22	ISSUE FOR BID



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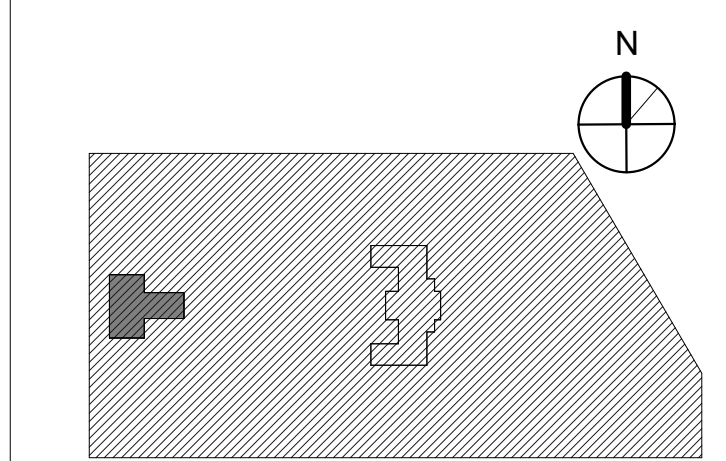


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PROJECT TITLE
 KINGSESSENG LIBRARY BUILDING
 RENOVATIONS AND SITE
 IMPROVEMENTS

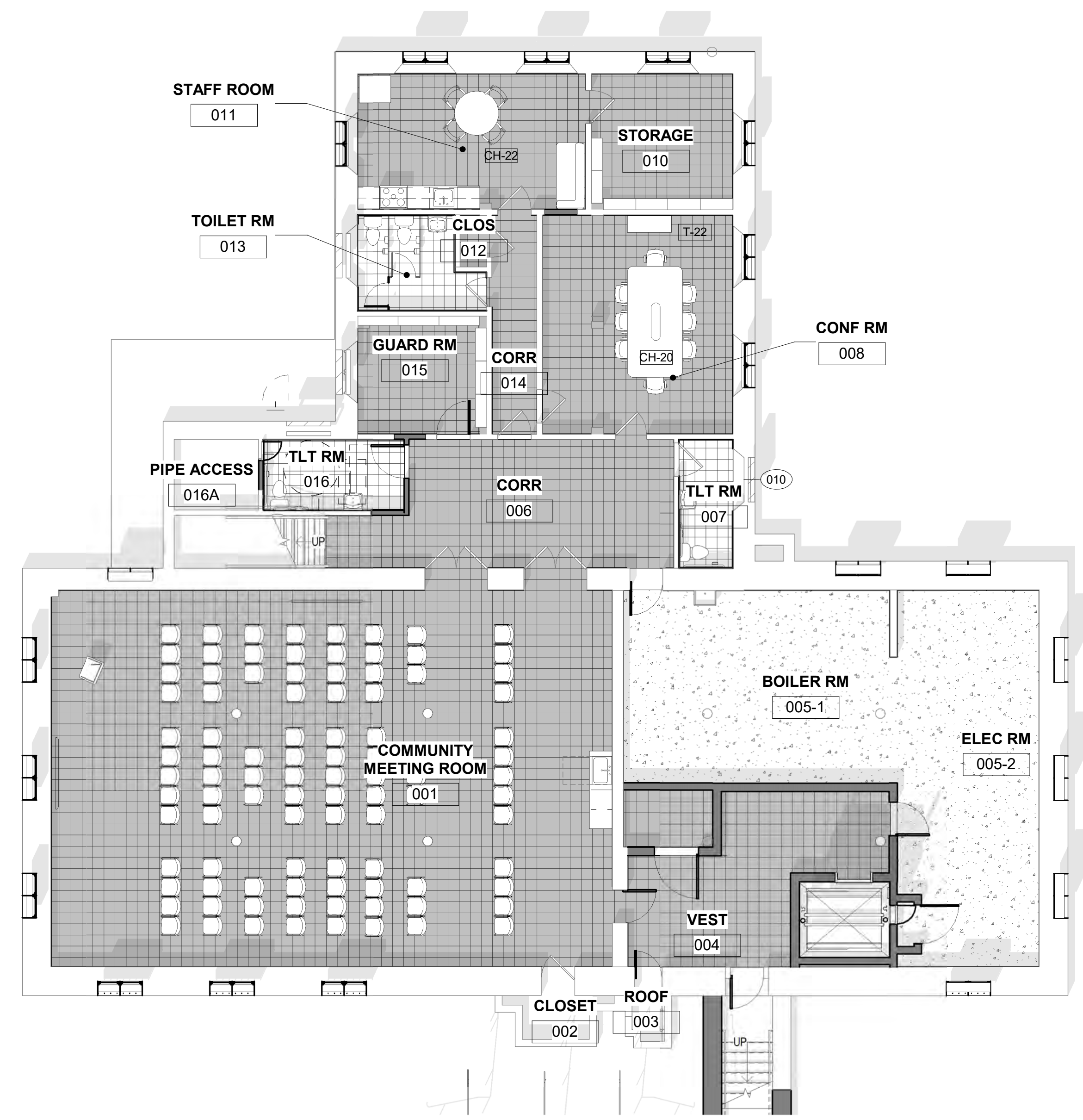
KEY PLAN



DRAWING TITLE
 SIGNAGE - LOWER LEVEL

PROJECT NO.	21070	DRAWING NO.	SIGN-01
DATE	9/7/22		
SCALE	1/8" = 1'-0"		
DRAWN BY	A.F.		
CHECKED BY	D.B.		

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



① LOWER LEVEL - SIGNAGE PLAN
 1/8" = 1'-0"

STAMP AREA

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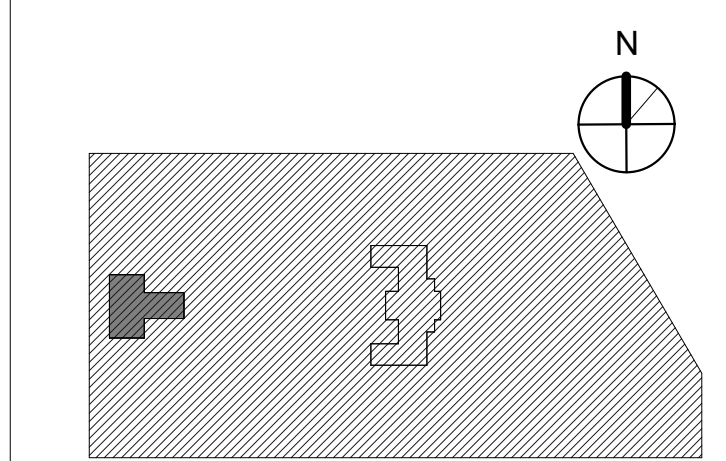


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PROJECT TITLE
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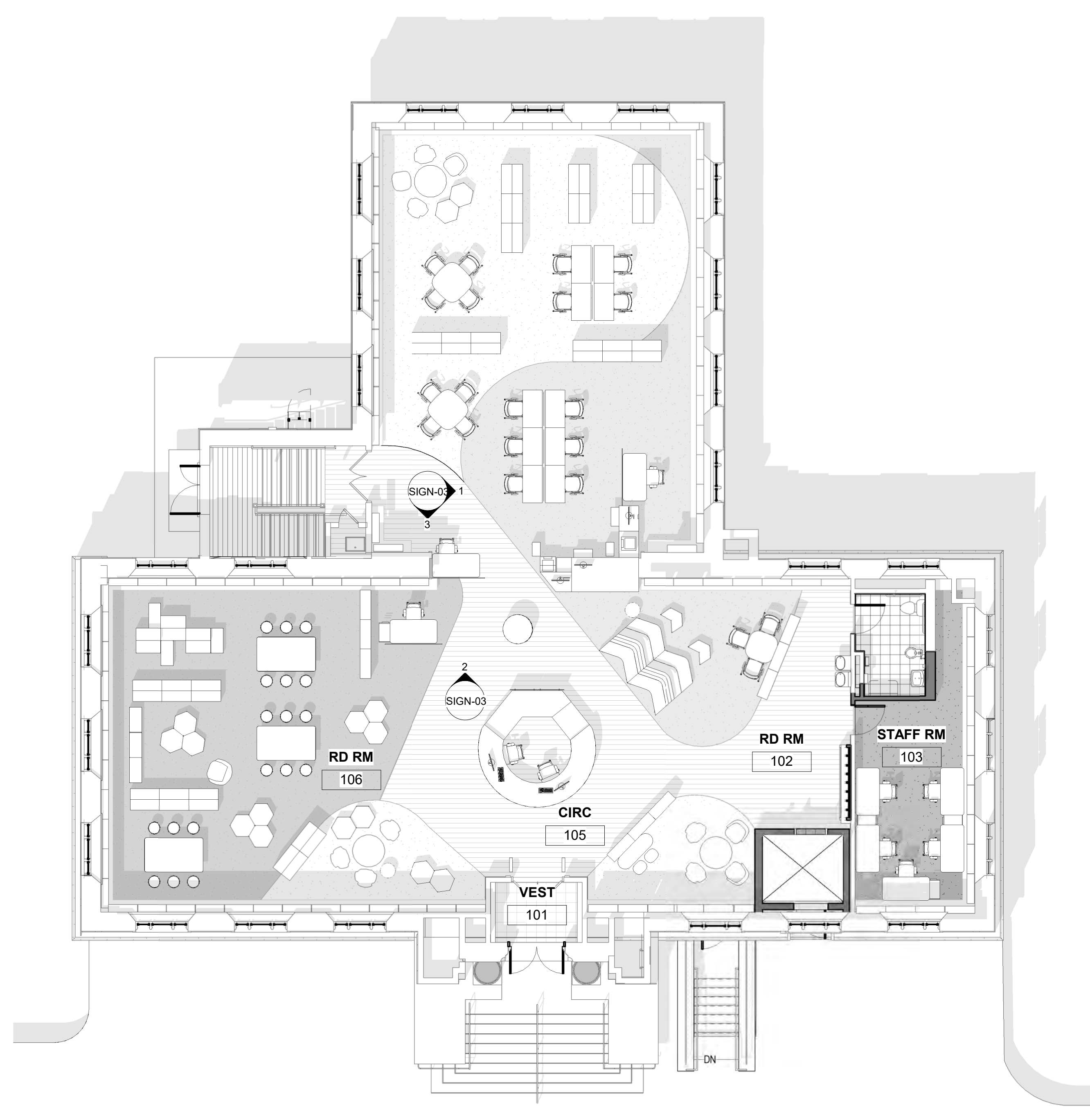
KEY PLAN



DRAWING TITLE
 SIGNAGE - FIRST FLOOR

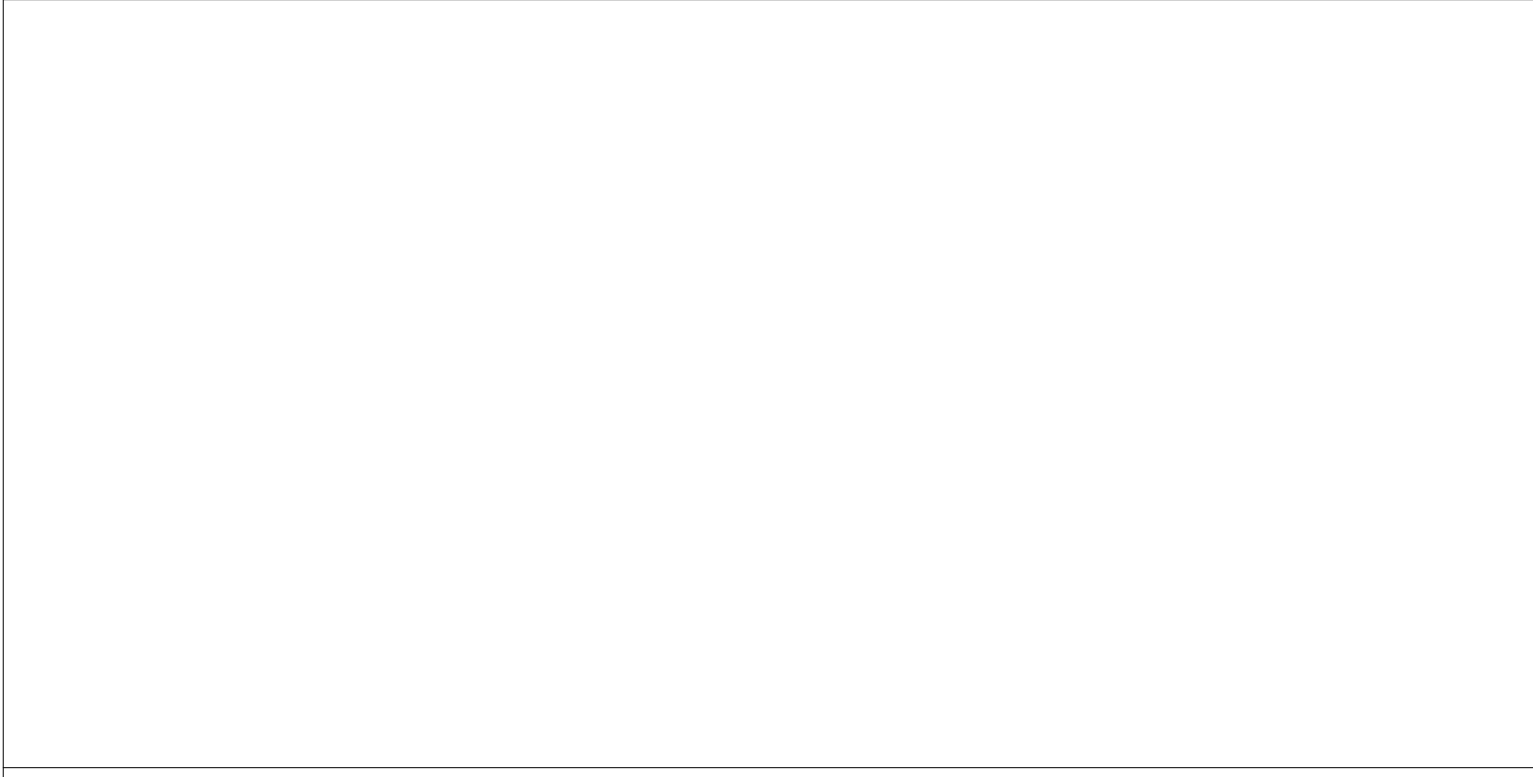
PROJECT NO.	21070	DRAWING NO.	SIGN-02
DATE	9/7/22		
SCALE	1/8" = 1'-0"		
DRAWN BY	A.F.		
CHECKED BY	D.B.		

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



1 FIRST FLOOR - FURNITURE PLAN
 1/8" = 1'-0"

STAMP AREA



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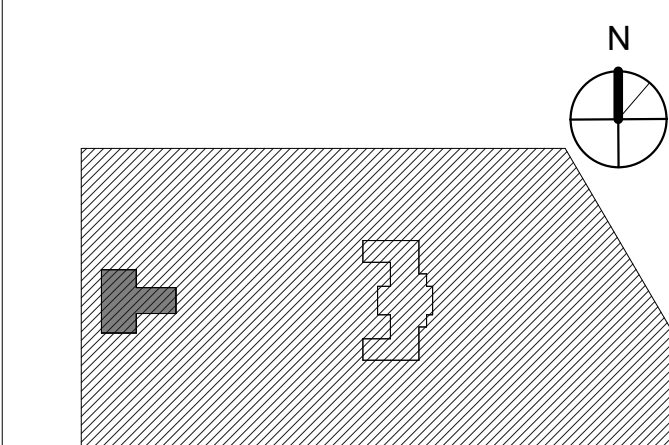


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PROJECT TITLE
**KINGSESSING LIBRARY BUILDING
RENOVATIONS AND SITE
IMPROVEMENTS**

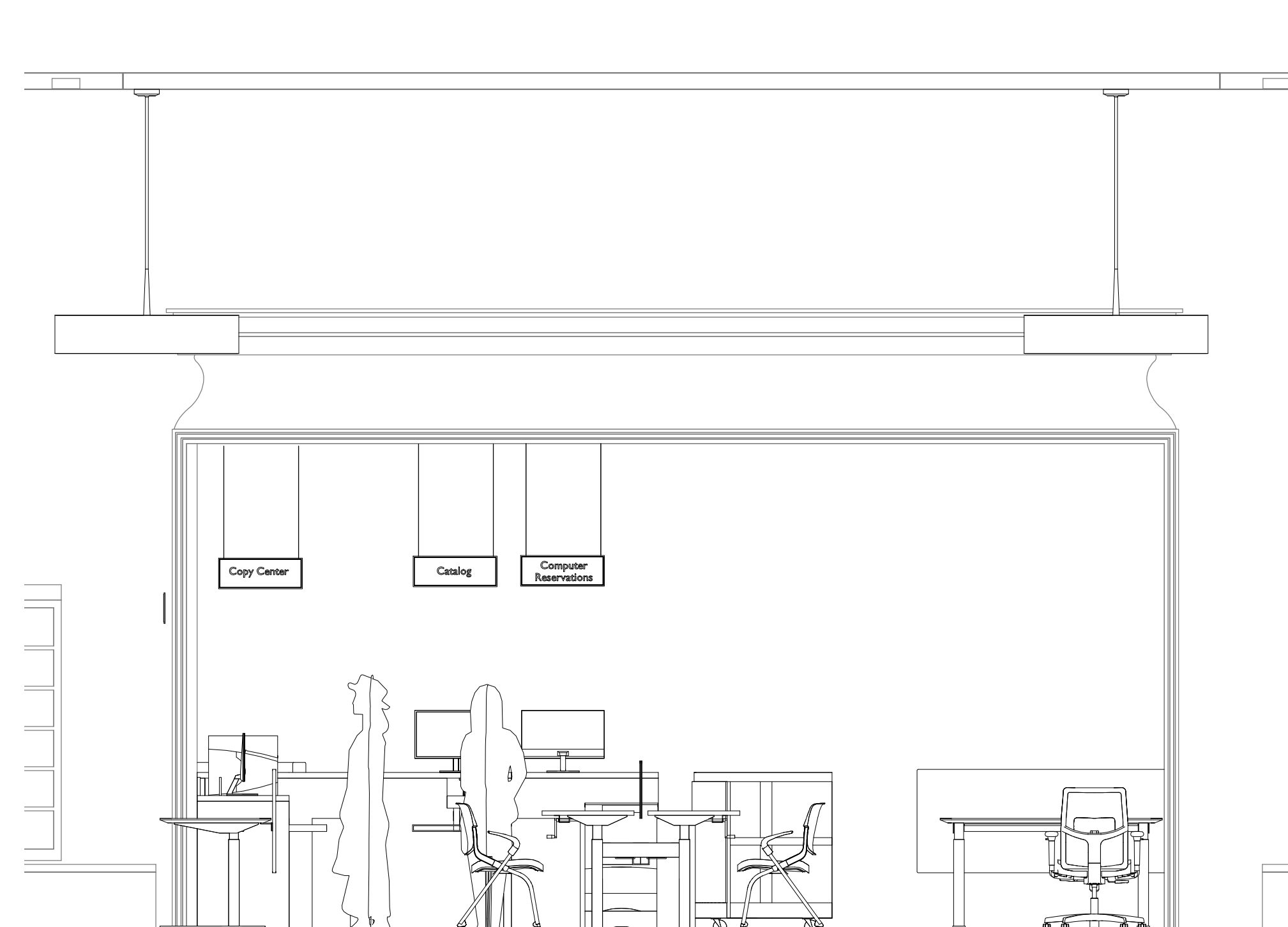
KEY PLAN



DRAWING TITLE
**SIGNAGE - FIRST FLOOR
ELEVATIONS**

PROJECT NO. 21070	DRAWING NO. SIGN-03
DATE 9/7/22	
SCALE 3/8" = 1'-0"	
DRAWN BY A.F.	
CHECKED BY D.B.	

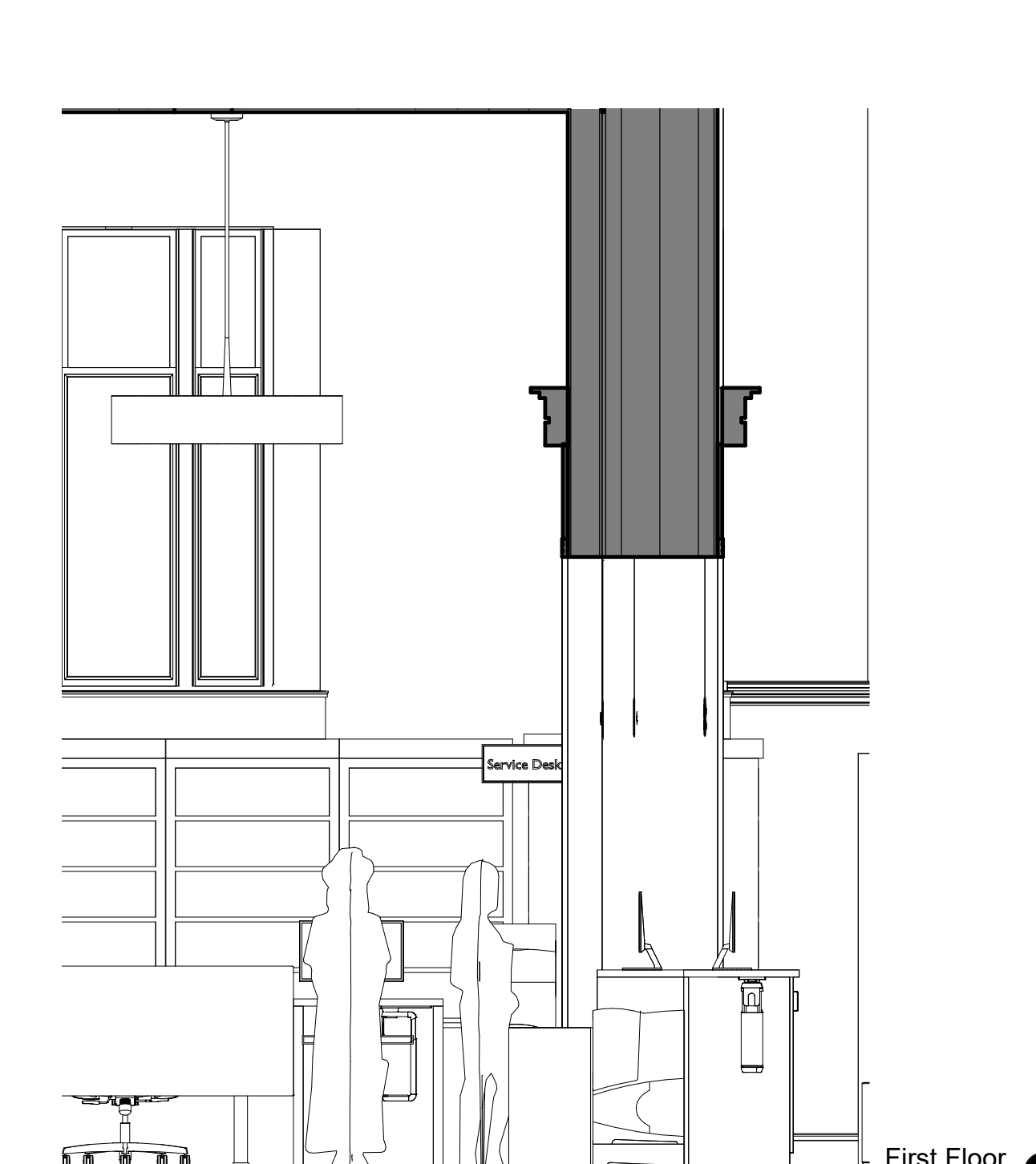
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3 SIGNAGE ELEVATION 3
3/8" = 1'-0"



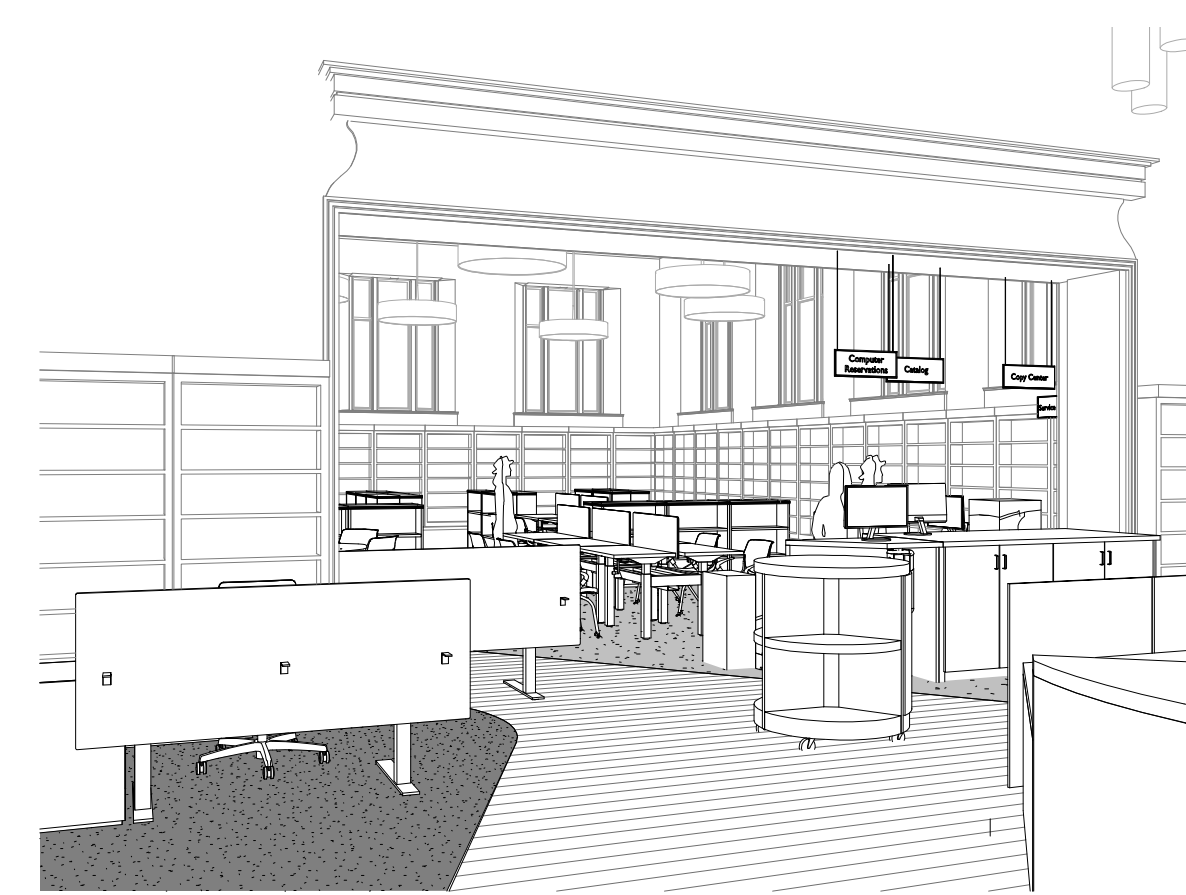
2 SIGNAGE ELEVATION 1
3/8" = 1'-0"



1 SIGNAGE ELEVATION 2
3/8" = 1'-0"



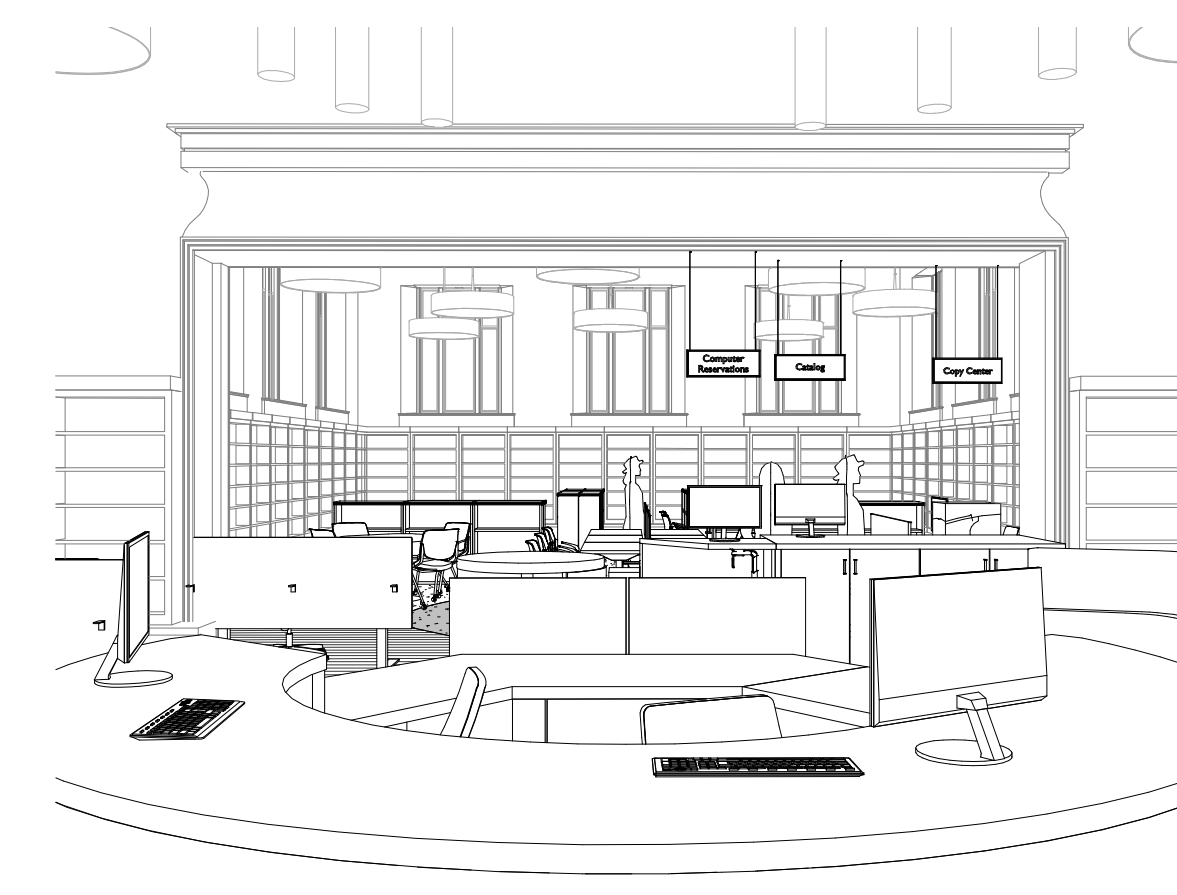
4 SIGNAGE VIEW 1



5 SIGNAGE VIEW 2

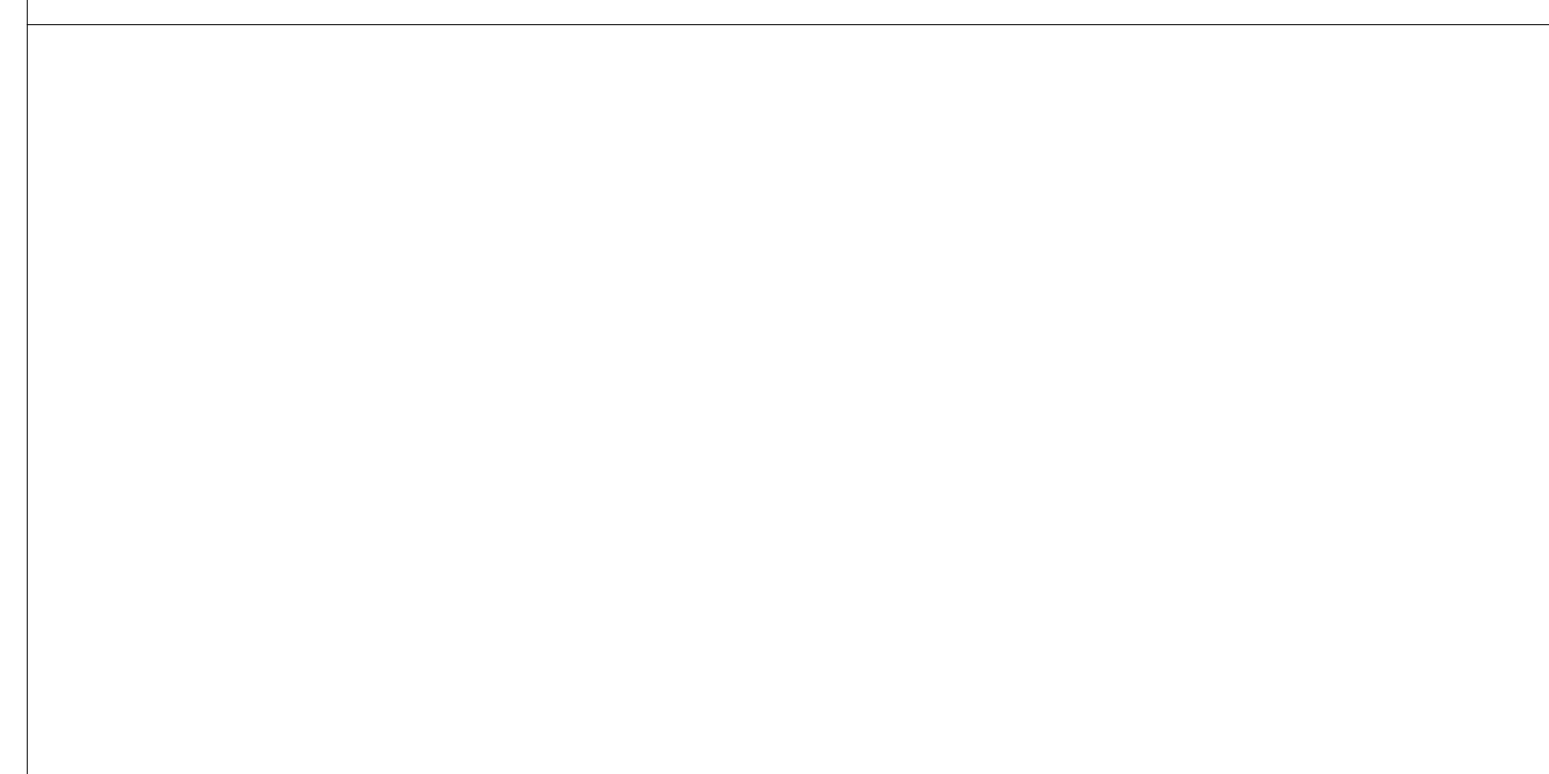


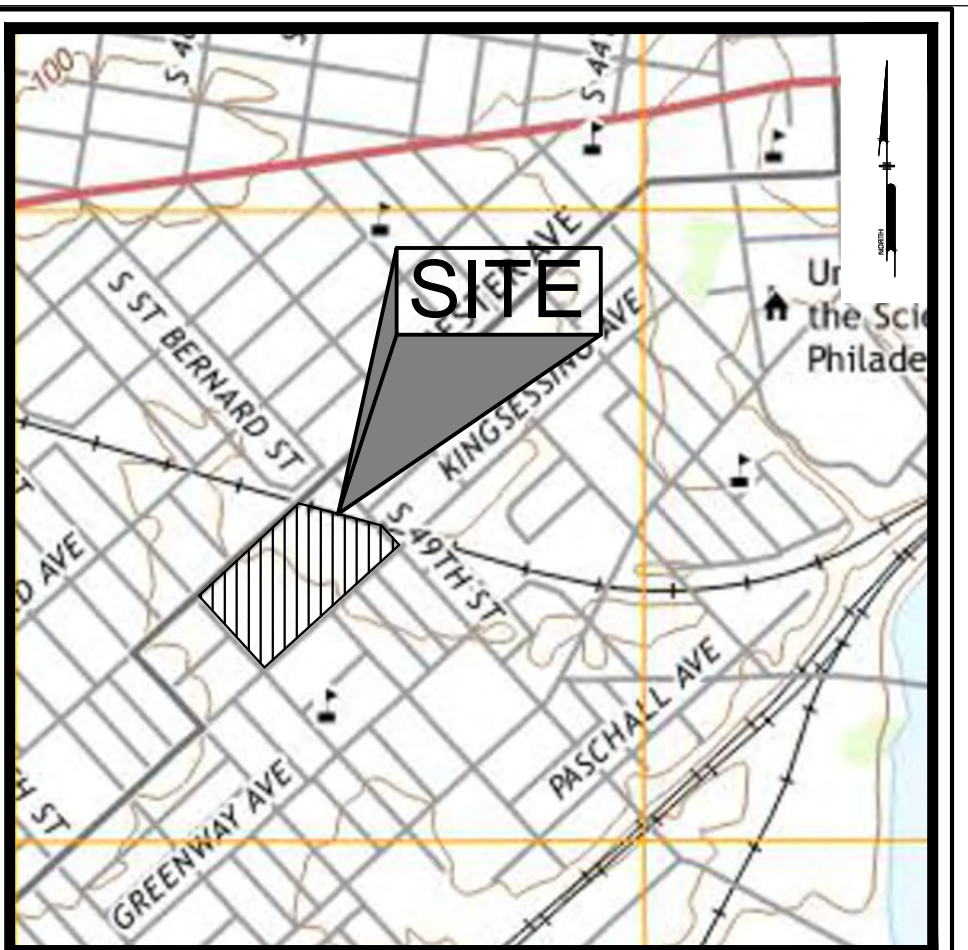
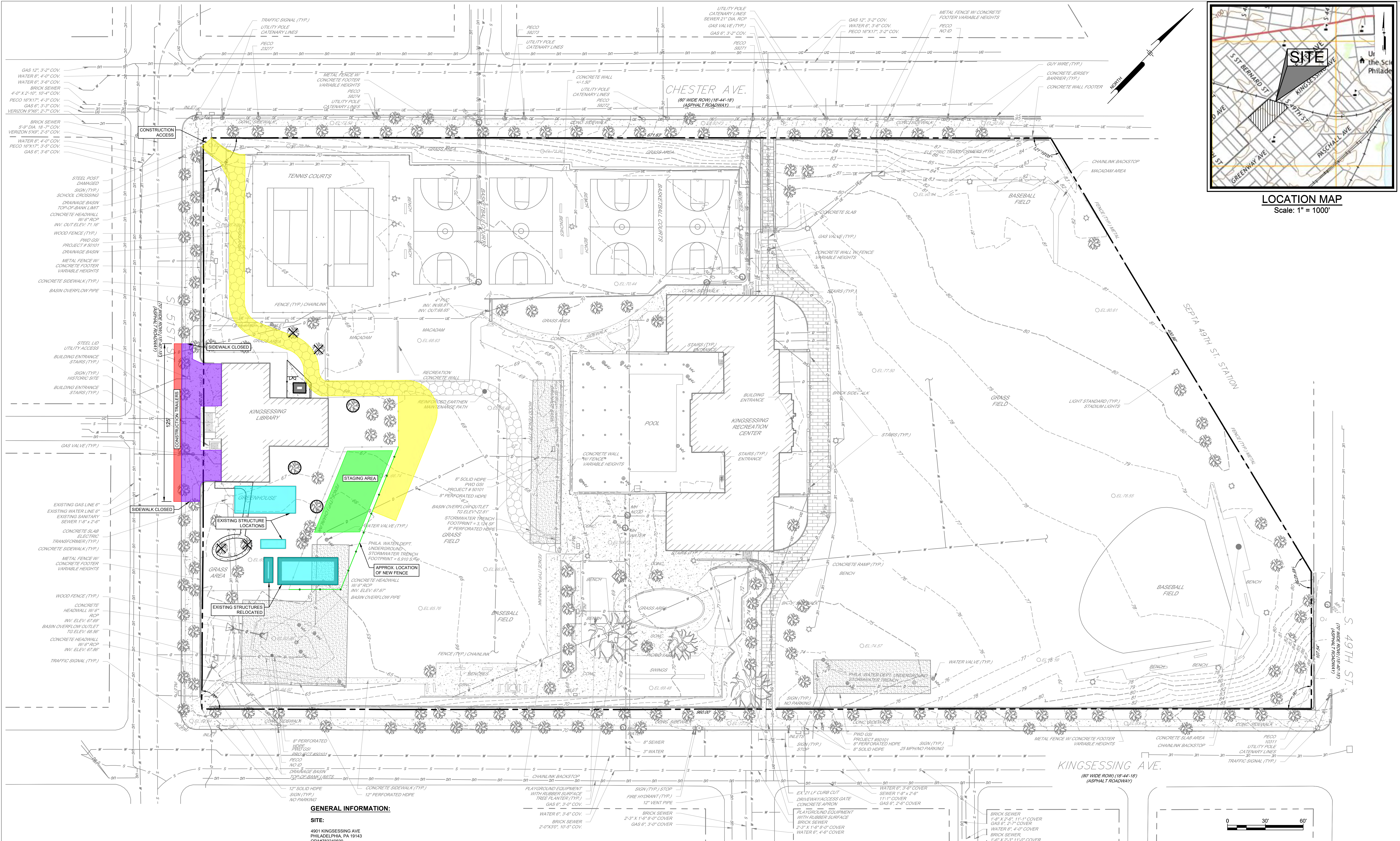
6 SIGNAGE VIEW 3



7 SIGNAGE VIEW 4

STAMP AREA





LOCATION MAP
Scale: 1" = 1000'

REVISIONS

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-	09/26/22	ISSUE FOR BID



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PROJECT COORDINATOR:
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PROJECT TITLE
KEY PLAN

STAMP AREA

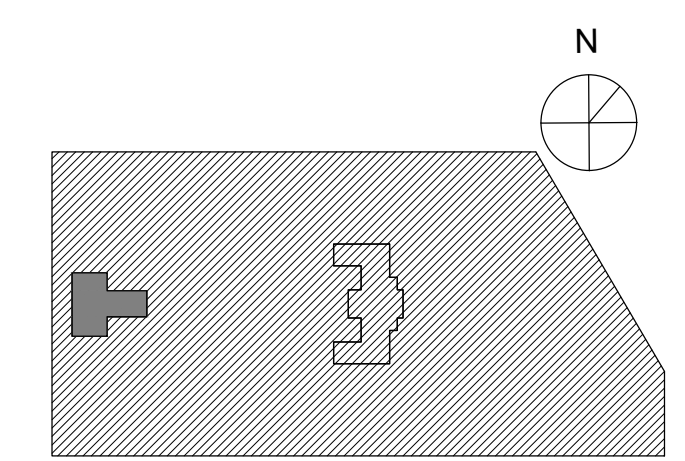
GENERAL INFORMATION:
SITE:
4901 KINGSESSING AVE
PHILADELPHIA, PA 19145
OP#A783249500
CLIENT:
CITY OF PHILADELPHIA
PARKS AND RECREATION
1515 ARCH STREET, 10TH FLOOR
PHILADELPHIA, PA 19102
ENGINEER:
PENNONI ASSOCIATES
1900 MARKET STREET, SUITE 300
PHILADELPHIA, PA 19103
SITE INFORMATION:
MUNICIPAL ZONING INFORMATION:
THE SITE IS LOCATED IN THE FOLLOWING ZONES IN THE CITY OF PHILADELPHIA:
ACTIVE PARKS AND OPEN SPACE (SP-POA)
ACCESSORY SIGN CONTROLS - SPECIAL CONTROLS FOR COBBES CREEK, ROOSEVELT BOULEVARD, AND DEPARTMENT OF PARKS AND RECREATION LAND
FOR COMPLETE ZONING INFORMATION PLEASE REFER TO THE ZONING CODE OF THE CITY OF PHILADELPHIA AS CURRENTLY AMENDED
FLOOD ZONE INFORMATION:
BY GRAPHIC PLOTTING ONLY, BASED UPON THE FLOOD INSURANCE RATE COMMUNITY MAP NO. 4207571944 WHICH BEARS AN EFFECTIVE DATE OF NOVEMBER 18, 2015, THE SITE IS LOCATED IN THE FOLLOWING AREAS:
ZONE X AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN
NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE
REFERENCES:
1. TOPOGRAPHIC INFORMATION TAKEN FROM A PLAN BY AMERICAN ENGINEERS GROUP, LLC (ENTITLED "KINGSESSING RECREATION CENTER TOPOGRAPHIC SURVEY", SHEET NO. 1, DATED 03/12/2021)
2. BOUNDARY INFORMATION FROM GIS, BOUNDARY SURVEY NOT PERFORMED

- SITE NOTES:**
- UNLESS SPECIFICALLY STATED OR SHOWN HEREON TO THE CONTRARY, THIS SURVEY IS MADE SUBJECT TO AND DOES NOT LOCATE OR DELINEATE.
 - RIGHTS OR INTERESTS OF THE UNITED STATES OF AMERICA OR COMMONWEALTH OF PENNSYLVANIA OVER LANDS NOW OR FORMERLY FLOWED BY TIDEWATER BUT NO LONGER VISIBLE OR PHYSICALLY EVIDENT, OR LANDS CONTAINING ANY ANIMAL, MARINE, OR BOTANICAL SPECIES REGULATED BY OR UNDER THE JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL AGENCY.
 - BUILDING SETBACK LINES, ZONING REGULATIONS OR LINES ESTABLISHED BY ANY FEDERAL, STATE OR LOCAL AGENCY WHICH MAY AFFECT THE BUILDING OR DEVELOPMENT POTENTIAL OF THE SUBJECT PROPERTY.
 - ANY SUBSURFACE OR SUBTERRANEAN CONDITION, EASEMENTS OR RIGHTS INCLUDING BUT NOT LIMITED TO MINERAL OR MINING RIGHTS, OR THE LOCATION OF OR RIGHTS TO ANY SUBSURFACE STRUCTURES, CONTAINERS OR FACILITIES OR ANY OTHER NATURAL OR MAN-MADE SUBSURFACE CONDITION WHICH MAY OR MAY NOT AFFECT THE USE OR DEVELOPMENT POTENTIAL OF THE SUBJECT PROPERTY.
 - LOCATIONS OF ON AND OFF SITE UTILITIES AS SHOWN ARE APPROXIMATE AND MAY OR MAY NOT BE COMPLETE. THE NATURE AND EXACT LOCATION OF EXISTING UTILITIES SHOULD BE VERIFIED PRIOR TO INITIATING ANY ACTIVITY THAT MAY AFFECT THEIR USE OR LOCATION.
 - THE LOCATION OF THE EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN HAVE BEEN TAKEN FROM EXISTING UTILITY RECORDS AVAILABLE AT THE TIME THESE PLANS WERE PREPARED AND FROM SURFACE OBSERVATION OF THE SITE.
 - COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES AND STRUCTURES IS NOT GUARANTEED.
 - IN ACCORDANCE WITH PA ACT 287 OF 1974 AS AMENDED BY PA ACT 121 OF 2008 ENTITLED "UNDERGROUND UTILITY LINE PROTECTION LAW", THE CONTRACTOR SHALL NOTIFY ALL UTILITIES WITHIN THE WORK AREA VIA THE PENNSYLVANIA ONE CALL SYSTEM INC. (800-242-1778) A MINIMUM OF 3 WORKING DAYS BEFORE THE START OF EXCAVATION.
 - THE CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL UNDERGROUND UTILITIES AND STRUCTURES BEFORE THE START OF WORK.
 - ALL BOUNDARY DIMENSIONS SHOWN ARE IN CITY OF PHILADELPHIA DISTRICT STANDARD MEASURE (DS) UNLESS DESIGNATED (US) TO DENOTE U.S. SURVEY FOOT.
 - THE HORIZONTAL DATUM FOR THIS PROJECT REFERENCES THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NORTH AMERICAN DATUM OF 1983
 - THE VERTICAL DATUM FOR THIS PROJECT REFERENCES THE CITY OF PHILADELPHIA VERTICAL DATUM.

- SURVEY NOTES:**
- PENNSYLVANIA STATE PLANE, SOUTH ZONE
HORIZONTAL DATUM: NAD 83
VERTICAL DATUM: CITY OF PHILADELPHIA DATUM
 - KINGSESSING RECREATION CENTER SITE CITY BENCHMARK
CITY SURVEY BUREAU SET PK NAIL ELEVATIONS:
EAST CORNER CHESTER AVE. AND S. 48TH ST. - 87.57'
NORTH CORNER CHESTER AVE. AND S. 48TH ST. - 87.90'

EXISTING LEGEND

	EXISTING PROPERTY LINE (APPROXIMATE)		CONSTRUCTION ACCESS
	EXISTING RIGHT OF WAY LINE (APPROXIMATE)		STAGING AREA
	EXISTING BUILDING		CONSTRUCTION TRAILERS
	EXISTING CURB		SIDEWALK CLOSED
	EXISTING SIDEWALK		STRUCTURE RELOCATION
	EXISTING EDGE OF MACADAM/GRAVEL		
	EXISTING TRAFFIC MARKING		
	EXISTING FENCE		
	EXISTING TREE		
	EXISTING MAJOR CONTOUR		
	EXISTING MINOR CONTOUR		
	EXISTING SIGN		
	EXISTING BOLLARD		
	EXISTING UTILITY POLE		
	EXISTING LIGHT		
	EXISTING INLET		
	EXISTING SEWER		
	EXISTING STORM SEWER		
	EXISTING WATER LINE		
	EXISTING UNDERGROUND TELEPHONE LINE		
	EXISTING GAS LINE		
	EXISTING UNDERGROUND ELECTRIC		
	EXISTING OVERHEAD WIRES		



Site Utilization Plan

PROJECT NO. KLMX21003B	DRAWING NO. C-050-L
DATE 09/07/2022	
SCALE AS NOTED	
DRAWN BY SSS	
CHECKED BY SSS	

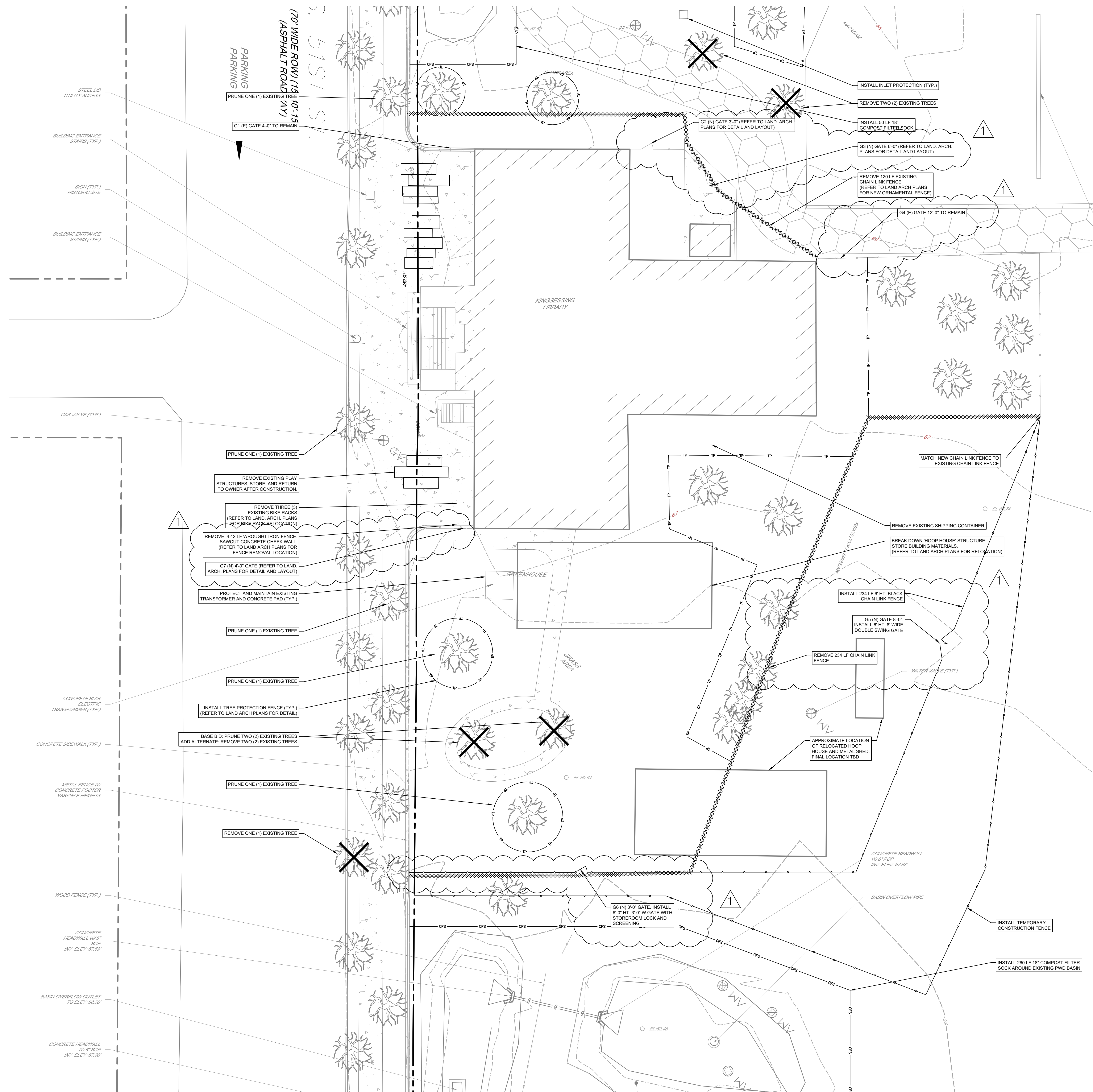
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

SITE PREPARATION AND DEMOLITION NOTES:

- CONTRACTOR SHALL REMOVE AND LEGALLY DISPOSE OF ALL EXISTING PAVING AND MATERIALS WITHIN THE WORK AREA LABELED FOR REMOVAL. REMOVAL INCLUDES, BUT IS NOT LIMITED TO, ALL SUBBASE MATERIALS AND FOUNDATIONS AND AS NECESSARY TO CONSTRUCT NEW IMPROVEMENTS. ALL DEBRIS SHALL BE REMOVED FROM SITE AND DISCARDED BY CONTRACTOR ON A DAILY BASIS.
- PAVEMENTS AND CURB TO BE REMOVED ARE TO BE SAWCUT TO A CLEAN STRAIGHT EDGE TO FULL DEPTH OF PAVEMENT OR CURB.
- CONTRACTOR SHALL PROTECT BUILDINGS, UTILITIES, FACADES, WALLS, PAVING TO REMAIN AND ALL OTHER EXISTING ITEMS TO REMAIN FROM DAMAGE DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE OR RESTORE DAMAGED AND DISTURBED AREAS, AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE PROPERTY OWNER.
- ALL EXISTING UTILITY BOXES, CLEANOUTS, MANHOLES, ETC. ARE TO REMAIN UNLESS NOTED OTHERWISE. REMOVE PAVING AROUND THESE STRUCTURES WITHOUT DISTURBANCE. CONTRACTOR MUST ADJUST / RESET TOPS OF ALL UTILITY STRUCTURES IN THE WORK AREA AS NECESSARY TO MATCH FINISHED GRADE. CONTRACTOR MUST PREVENT SOIL, SILT, STONES AND OTHER DEBRIS FROM ENTERING UTILITY AT ALL TIMES.
- DO NOT DISTURB FOUNDATIONS OF LIGHTPOSTS OR SIGNS INDICATED AS TO REMAIN. CONTACT ENGINEER AND OWNER IMMEDIATELY IF DISRUPTION OCCURS.
- OWNER WILL DESIGNATE AREA TO BE USED AS A TEMPORARY STAGING / STORAGE AREA, IF REQUIRED. ANY DAMAGE TO PAVING, SIDEWALK, CURB, LAWN, ETC. MUST BE REPAIRED/REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- PRUNE TREES WITHIN 10' OF LIBRARY BUILDING AND WHICH MAY BE IN THE WAY OF CONSTRUCTION EQUIPMENT, INCLUDING CRANES, LIFTS, TRUCKS, LADDERS AND SCAFFOLD TO BE PRUNED BEFORE EXTERIOR RENOVATIONS BEGIN.
- SUBMIT SHOP DRAWINGS FOR PROPOSED CHAIN LINK FENCE, GATES, AND LAYOUT

GENERAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION OF WORK AREAS DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH PA ACT 287 OF 1974 AS AMENDED BY ACT 121 OF 2008, ENTITLED "UNDERGROUND UTILITY LINE PROTECTION LAW".
- PRIOR TO CONSTRUCTION, CONTRACTOR TO FIELD LOCATE AND RECORD ANY DAMAGE TO EXISTING PAVING, SIDEWALK, CURB OR STRUCTURES NOT TO BE REMOVED OR REPLACED. ENGINEER TO VERIFY LOCATION AND EXTENT OF DAMAGE.
- DAMAGE TO EXISTING PAVING, SIDEWALK, CURB, OR OTHER STRUCTURES NOT TO BE REPLACED OR REMOVED SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER. CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGED ITEMS WITHOUT CHARGE TO THE OWNER.
- ALL EQUIPMENT, PAVING AND CURB LOCATIONS SHALL BE STAKED OUT IN THE FIELD AND LOCATIONS APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- LOCATIONS OF ON AND OFF SITE UTILITIES AS SHOWN ARE APPROXIMATE AND MAY OR MAY NOT BE COMPLETE. THE NATURE AND EXACT LOCATION OF EXISTING UTILITIES MUST BE VERIFIED PRIOR TO INITIATING ANY ACTIVITY THAT MAY AFFECT THEIR USE OR LOCATION.



EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1" = 10'-0"

REVISIONS

ISSUE	DATE	DESCRIPTION
0	09/07/22	ISSUE FOR BID
1	09/26/22	ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR

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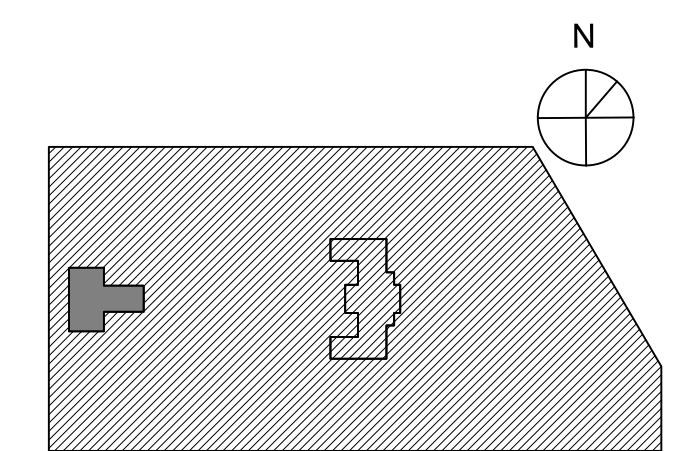


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PHILADELPHIA PENNSYLVANIA

PROJECT TITLE

KEY PLAN



DRAWING TITLE
Civil Demolition/Site Plan

PROJECT NO.
KMLX21003B

DATE
09/07/2022

SCALE
AS NOTED

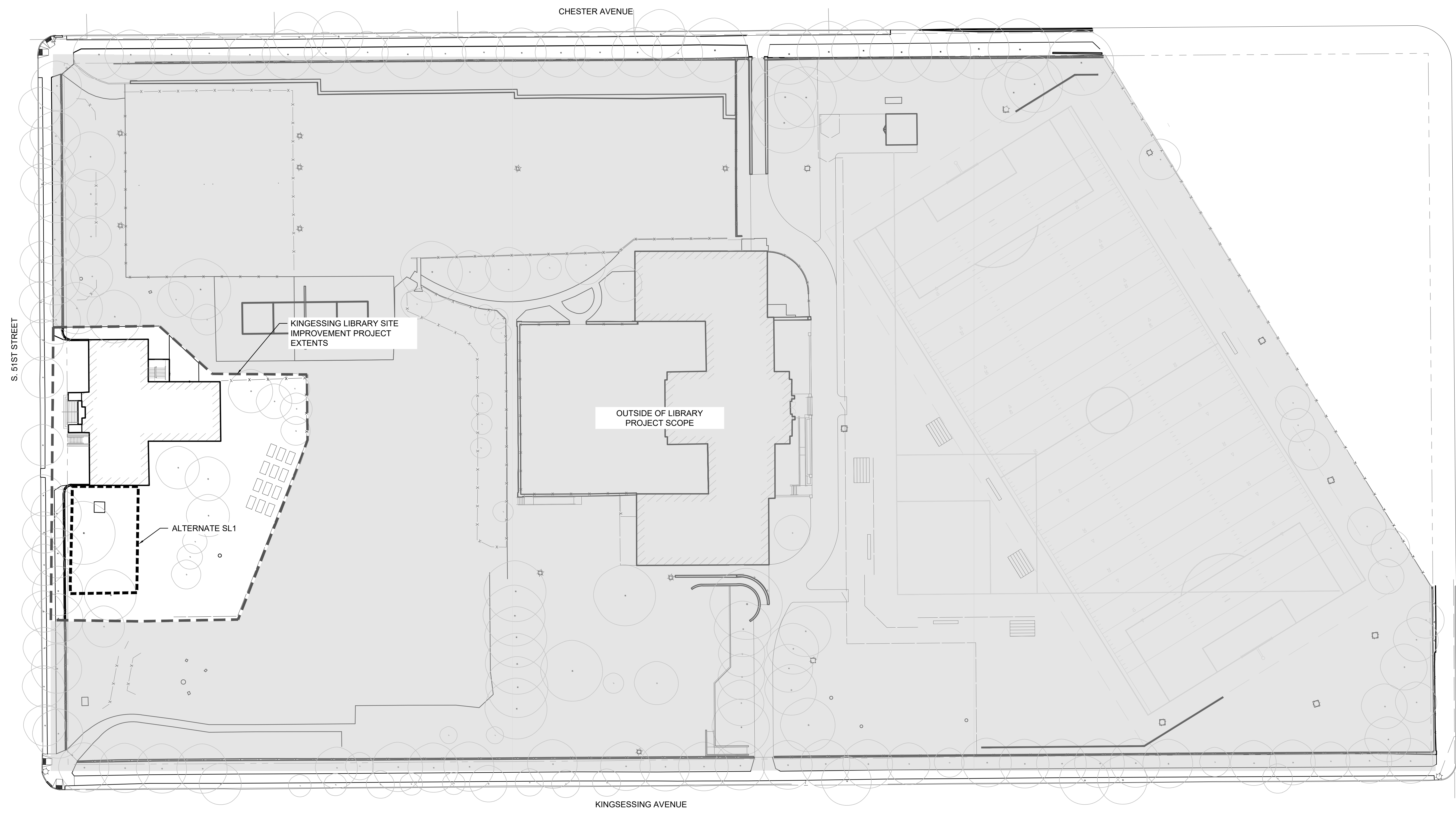
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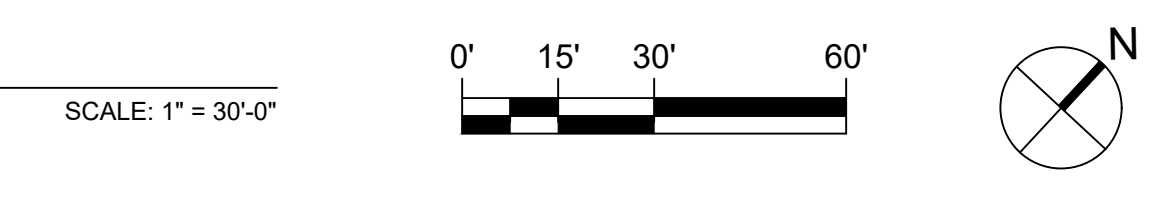
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DRAWING NO.
C-051-L

STAMP AREA



1 SITE CONTEXT - LIBRARY SITE IMPROVEMENT PROJECT EXTENTS



STAMP AREA

REVISIONS

ISSUE	DATE	DESCRIPTION
-	09/26/22	ISSUE FOR BID



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PROJECT COORDINATOR

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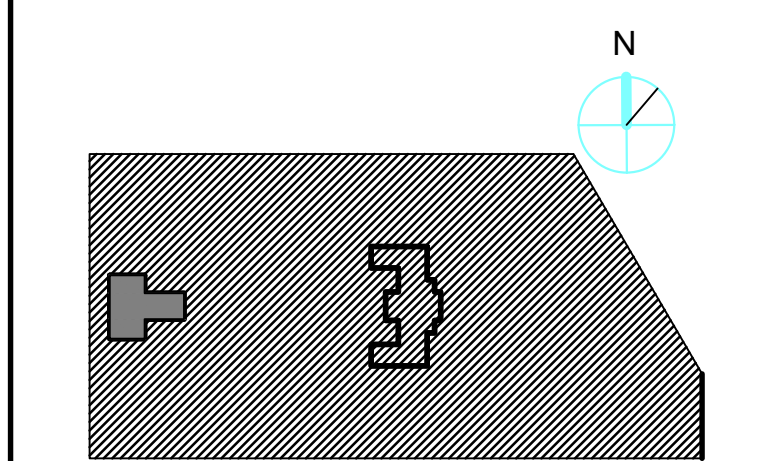


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PROJECT TITLE

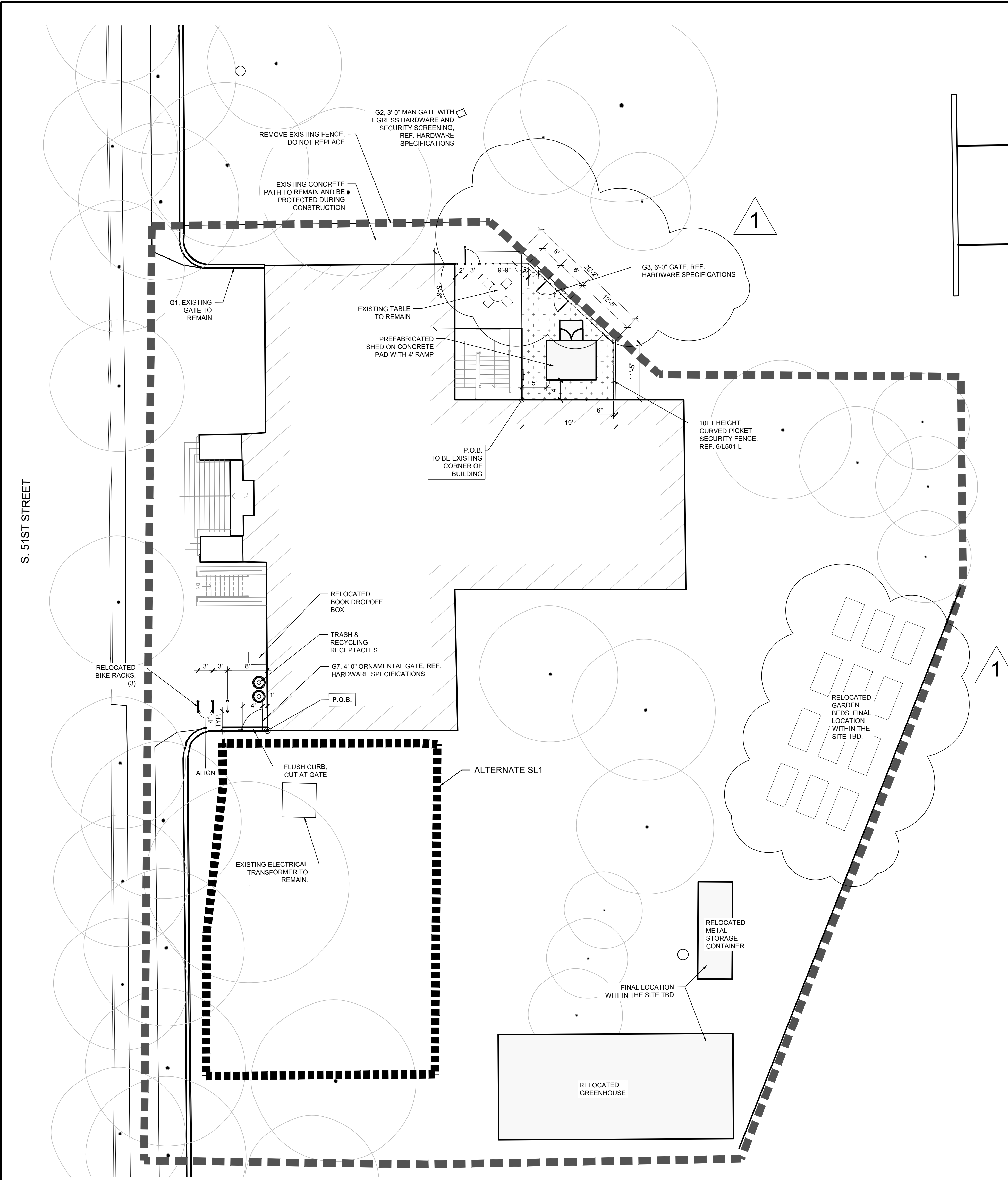
KEY PLAN



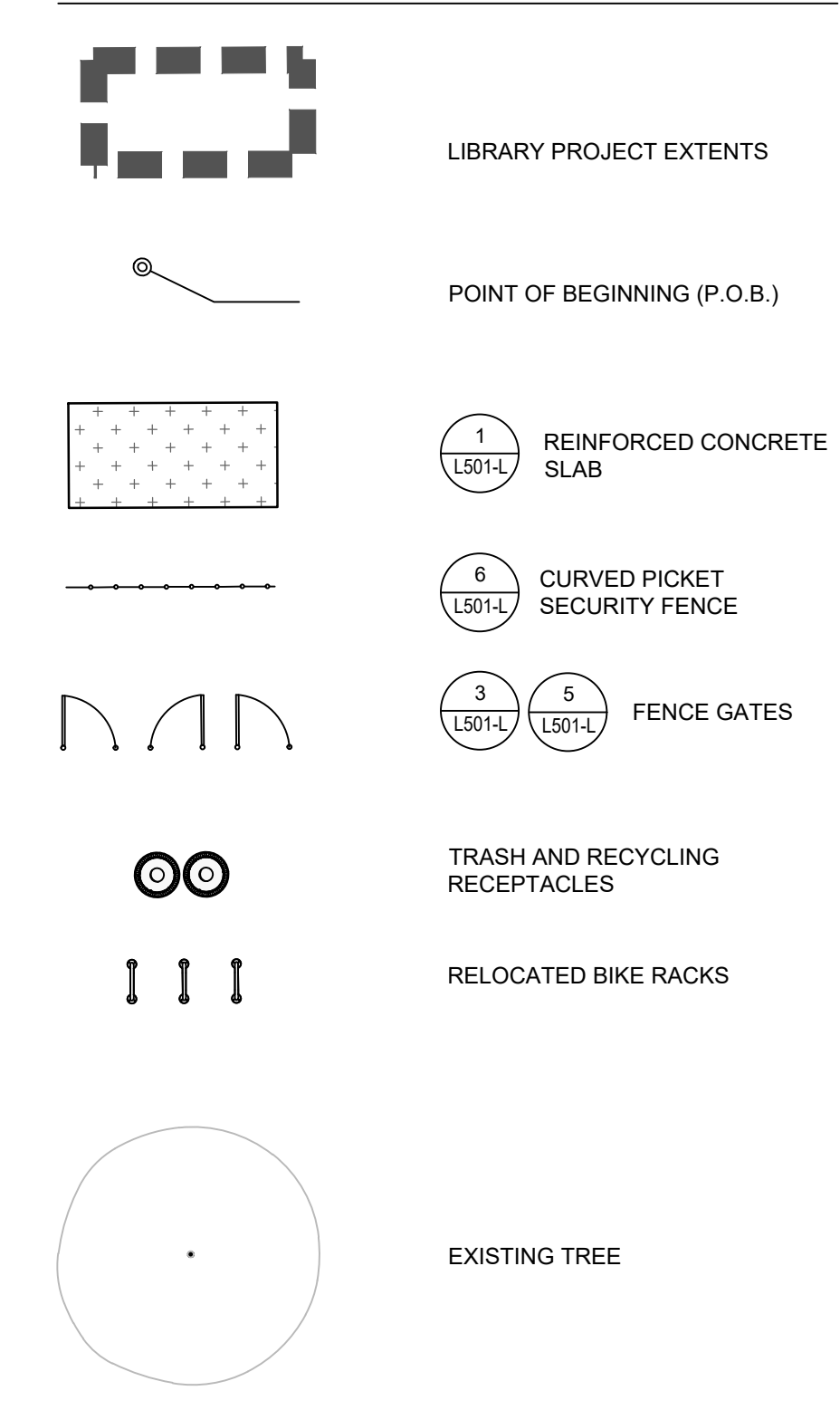
DRAWING TITLE
SITE CONTEXT PLAN

PROJECT NO.	21070	DRAWING NO.	L100-L
DATE	09/27/2022		
SCALE	AS SHOWN		
DRAWN BY	JF		
CHECKED BY	SPS		

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



LEGEND:



SITE LAYOUT NOTES:

1. SITE SURVEY DATA WAS PROVIDED BY REBUILD TO SALT DESIGN STUDIO ON JANUARY 4, 2022.
2. ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REGULATIONS.
3. VERIFY DIMENSIONS AND ACCEPT CONDITIONS BEFORE PROCEEDING WITH ANY WORK. REPORT DISCREPANCIES TO LANDSCAPE ARCHITECT.
4. THESE CONSTRUCTION DOCUMENTS MAKE NO REPRESENTATIONS AS TO THE MEANS AND METHODS OF CONSTRUCTION.
5. DO NOT SCALE DRAWINGS. CONSULT LANDSCAPE ARCHITECT FOR ANSWERS TO ALL DIMENSIONAL QUESTIONS.
6. CONTACT UTILITY COMPANIES AS REQUIRED BY STATE AND LOCAL REGULATIONS BEFORE DIGGING TO LOCATE AND MARK EXISTING UTILITIES.
7. COORDINATE ALL UTILITY WORK WITH THE LOCATIONS AND FINAL GRADES OF ALL OTHER WORK AS SHOWN ON CIVIL ENGINEERING DRAWINGS. WHERE CONFLICTS OCCUR, NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF UTILITIES TO MAKE ADJUSTMENTS AS REQUIRED. IF NEW UTILITIES HAVE BEEN INSTALLED IN CONFLICT WITH CURBS, WALLS, PAVING, OR OTHER STRUCTURES AT DEPTHS TOO SHALLOW FOR PROPER COVER BENEATH NEW GRADES OR INCORRECT FINISHED GRADE, THEY SHALL BE ADJUSTED OR REMOVED AND REPLACED AS NECESSARY AT CONTRACTOR'S EXPENSE.
8. CONTRACTOR TO OBTAIN THE LANDSCAPE ARCHITECT'S APPROVAL OF LAYOUT OF ALL SITE IMPROVEMENTS PRIOR TO INSTALLATION.
9. DIMENSIONS ARE PROVIDED TO EDGE OF PAVEMENT, FRONT OF CURB, FACES OF WALLS, OR OBJECT CENTERLINE, UNLESS NOTED OTHERWISE.
10. ELEMENTS SHALL BE PARALLEL OR PERPENDICULAR, UNLESS NOTED OTHERWISE.
11. PROVIDE SLOPES ON PAVEMENT SURFACES AS INDICATED ON GRADING AND DRAINAGE PLAN TO ALLOW FOR POSITIVE DRAINAGE.
- 11.1. NO PONDING SHALL BE PERMITTED ON FINISHED GRADE OF SITE PAVEMENTS. AREAS WHERE PONDING OCCURS SHALL BE REGRADED AND REPAIRED AT CONTRACTOR'S EXPENSE.
12. GARDENS, HOOP HOUSE, AND STORAGE CONTAINER TO BE MOVED OR DISASSEMBLED AND STOCKPILED FOR LATER REUSE. ALL ITEMS TO BE REINSTALLED DURING REC CENTER CONSTRUCTION PROJECT. FINAL LOCATIONS TO BE DETERMINED WITHIN THE LIBRARY SITE BOUNDARY.

SITE MATERIALS NOTES:

1. UNLESS OTHERWISE NOTED, EXISTING CONCRETE PAVEMENT TO REMAIN.
2. EXPANSION JOINTS OCCUR AT EDGES OF ALL NEW PAVEMENTS AND EXISTING CONCRETE PAVEMENT.
3. COORDINATE INSTALLATION OF FURNISHING FOUNDATIONS PRIOR TO INSTALLING SITE PAVEMENTS.

SITE FURNISHING NOTES:

1. CONTRACTOR TO OBTAIN THE LANDSCAPE ARCHITECT'S APPROVAL OF LAYOUT OF ALL SITE FURNISHINGS PRIOR TO INSTALLATION.
2. DIMENSIONS ARE PROVIDED TO EDGE OF PAVEMENT, FACES OF WALLS, OR CENTERLINES OF OBJECTS, UNLESS NOTED OTHERWISE.
3. ELEMENTS SHALL BE PARALLEL OR PERPENDICULAR, UNLESS NOTED OTHERWISE.
4. SEE FURNISHINGS SCHEDULES, THIS SHEET, FOR QUANTITIES, PRODUCT, AND MANUFACTURER INFORMATION.
5. FOUNDATIONS FOR ALL FURNISHINGS AND EQUIPMENT SHALL BE LOCATED ON SITE AND REVIEWED IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. NO POURED-IN-PLACE SAFETY SURFACE SHALL BE INSTALLED UNTIL FOUNDATIONS FOR FURNISHINGS AND EQUIPMENT ARE INSTALLED.

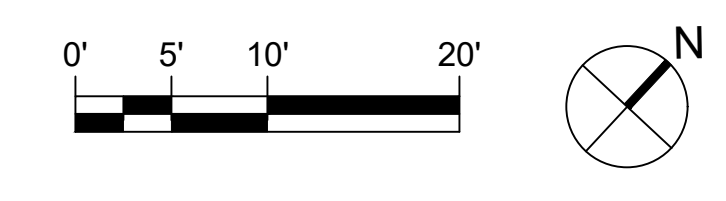
FURNISHINGS SCHEDULE:

ITEM	QTY	PRODUCT NAME & MODEL NUMBER	MANUFACTURER	OPTIONS, FINISHES & COLORS	INSTALLATION
LITTER RECEPTACLE	1	LAKESIDE LITTER	LANDSCAPE FORMS	GRASS DESIGN; SIDE OPEN; POWDERCOAT COLOR: GRASS	SURFACE MOUNT
RECYCLING RECEPTACLE	1	LAKESIDE RECYCLING	LANDSCAPE FORMS	GRASS DESIGN; TOP OPEN; POWDERCOAT COLOR: GRASS	SURFACE MOUNT
SHED	1	8X10 A-FRAME SHED KIT	AMISH BACKYARD STRUCTURES	SIDING COLOR: WHITE; TRIM COLOR: BLACK; SHINGLE ROOF: BLACK	PLACED ON REINFORCED CONCRETE PAD

1 SITE LAYOUT, MATERIALS, AND FURNISHING PLAN

STAMP AREA

SCALE: 1" = 10'-0"



REVISIONS

ISSUE	DATE	DESCRIPTION
1	09/26/22	ISSUE FOR BID



REVIEWED BY:
PROJECT COORDINATOR

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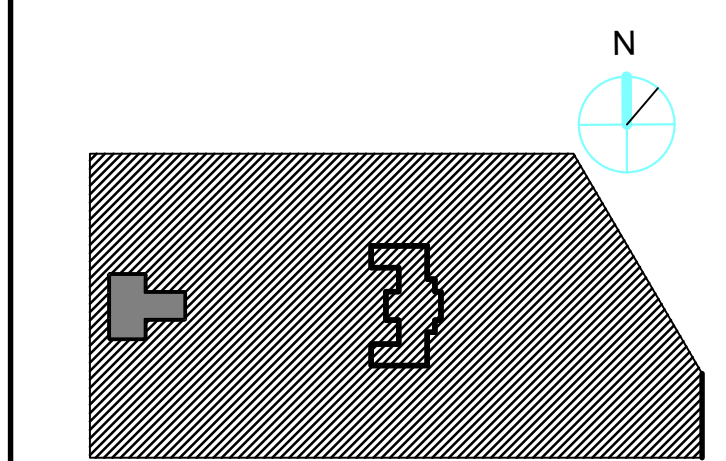


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PROJECT TITLE

KEY PLAN

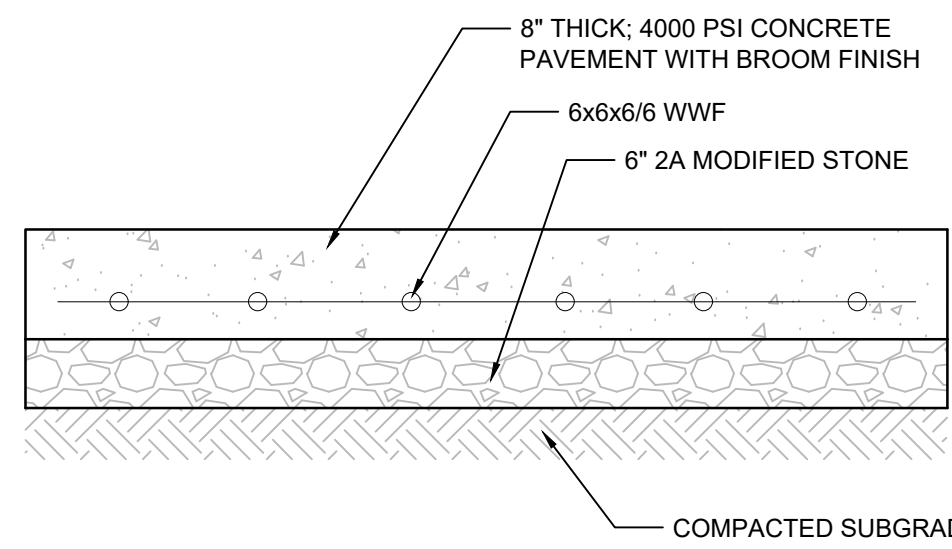


DRAWING TITLE

SITE LAYOUT, MATERIALS, AND FURNISHINGS

PROJECT NO.	21070	DRAWING NO.	L101-L
DATE	09/27/2022		
SCALE	AS SHOWN		
DRAWN BY	AF		
CHECKED BY	SPS		

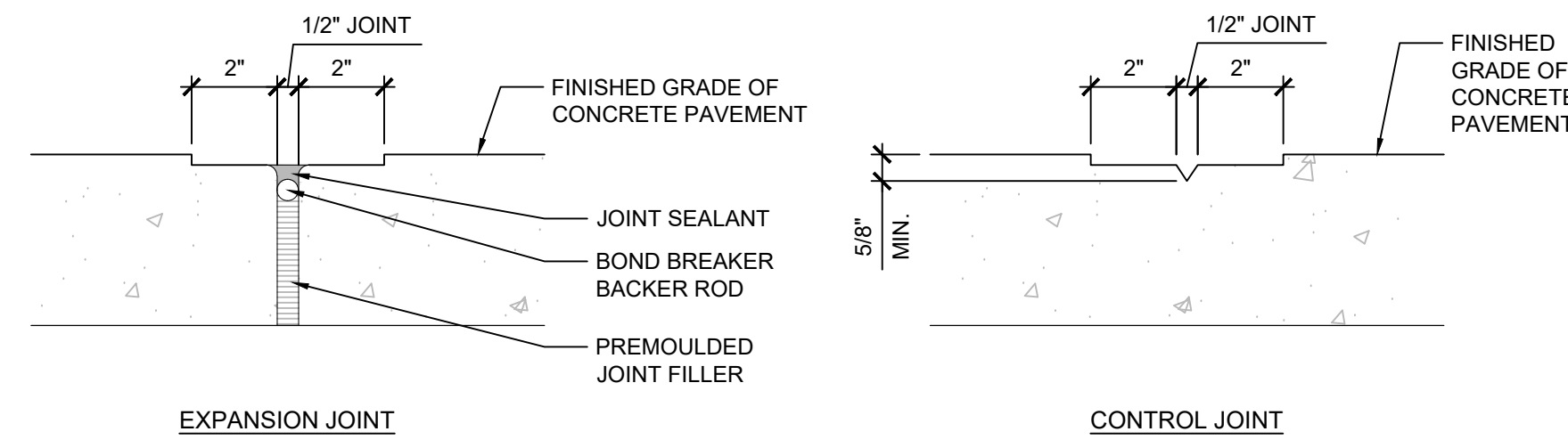
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



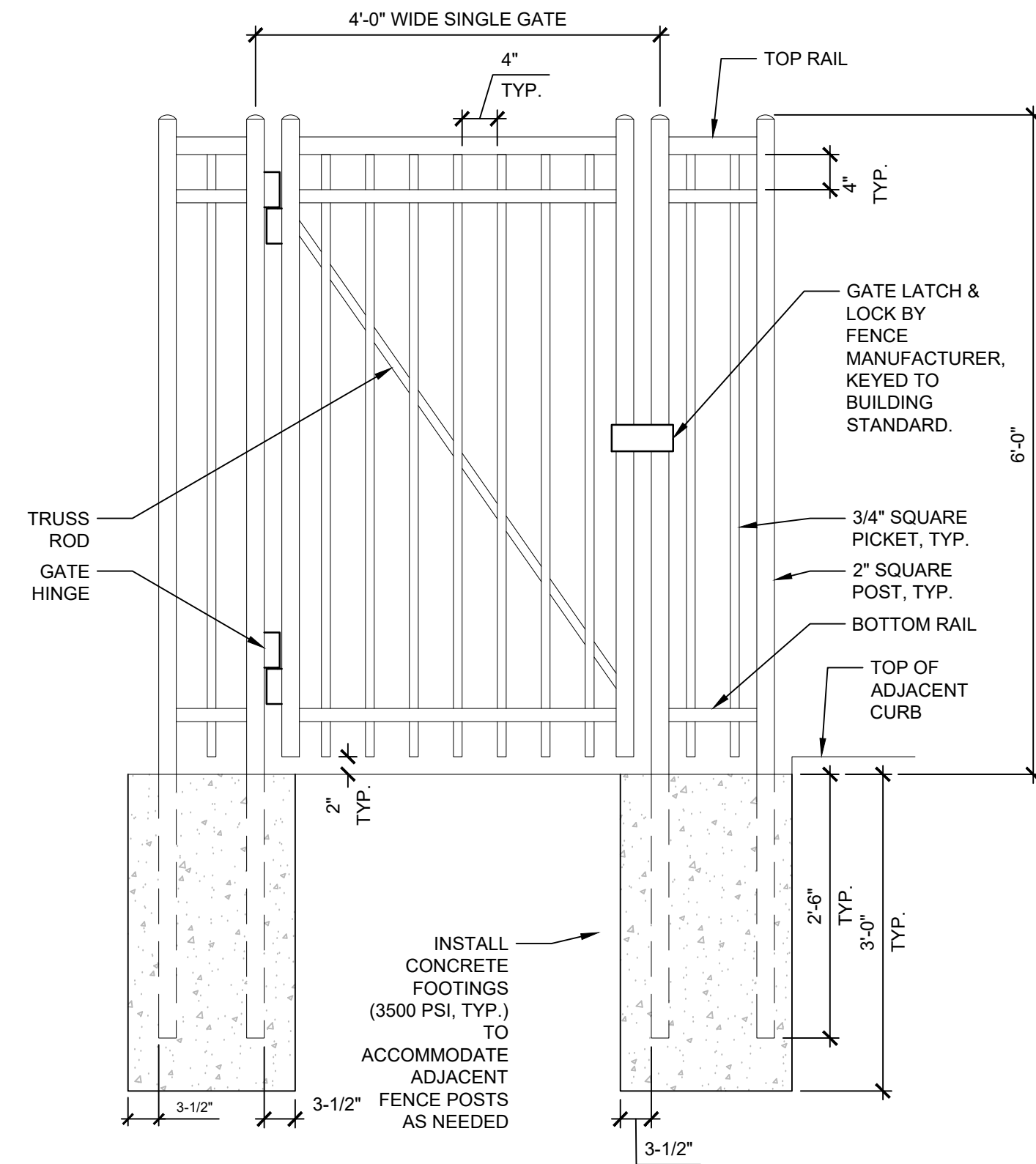
NOTE:
EXPANSION JOINTS SHALL BE PROVIDED AT EQUAL DISTANCES OF NOT MORE THAN 20' AND AT BUILDING WALL JOINTS SHALL BE FILLED WITH PREFORMED EXPANSION JOINT FILLER, 1/2" THICK, CONFORMING TO PENNSYLVANIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE JOINT SHALL BE RECESSED 1/4" FROM THE TOP AND FRONT OF CONCRETE SLAB.

1 REINFORCED CONCRETE SLAB
SCALE: 1"=1'-0"

- NOTES:**
- EXPANSION JOINTS TO OCCUR AT 10' O.C. MAX. AND WHERE CONCRETE PAVEMENT MEETS ALL CURBS, WALLS, EXISTING SITE ELEMENTS, AND WHERE SHOWN ON PLANS OR OTHER DETAILS.
 - SUBMIT PRODUCT DATA FOR JOINT FILLER AND WOVEN GEOTEXTILE TO LANDSCAPE ARCHITECT FOR APPROVAL.
 - TOOLED JOINT TO OCCUR AT EACH CONTROL JOINT AS SHOWN ON PLANS. TOOLING SHALL ALSO OCCUR AROUND ENTIRE PERIMETER OF CONCRETE PAVEMENT.

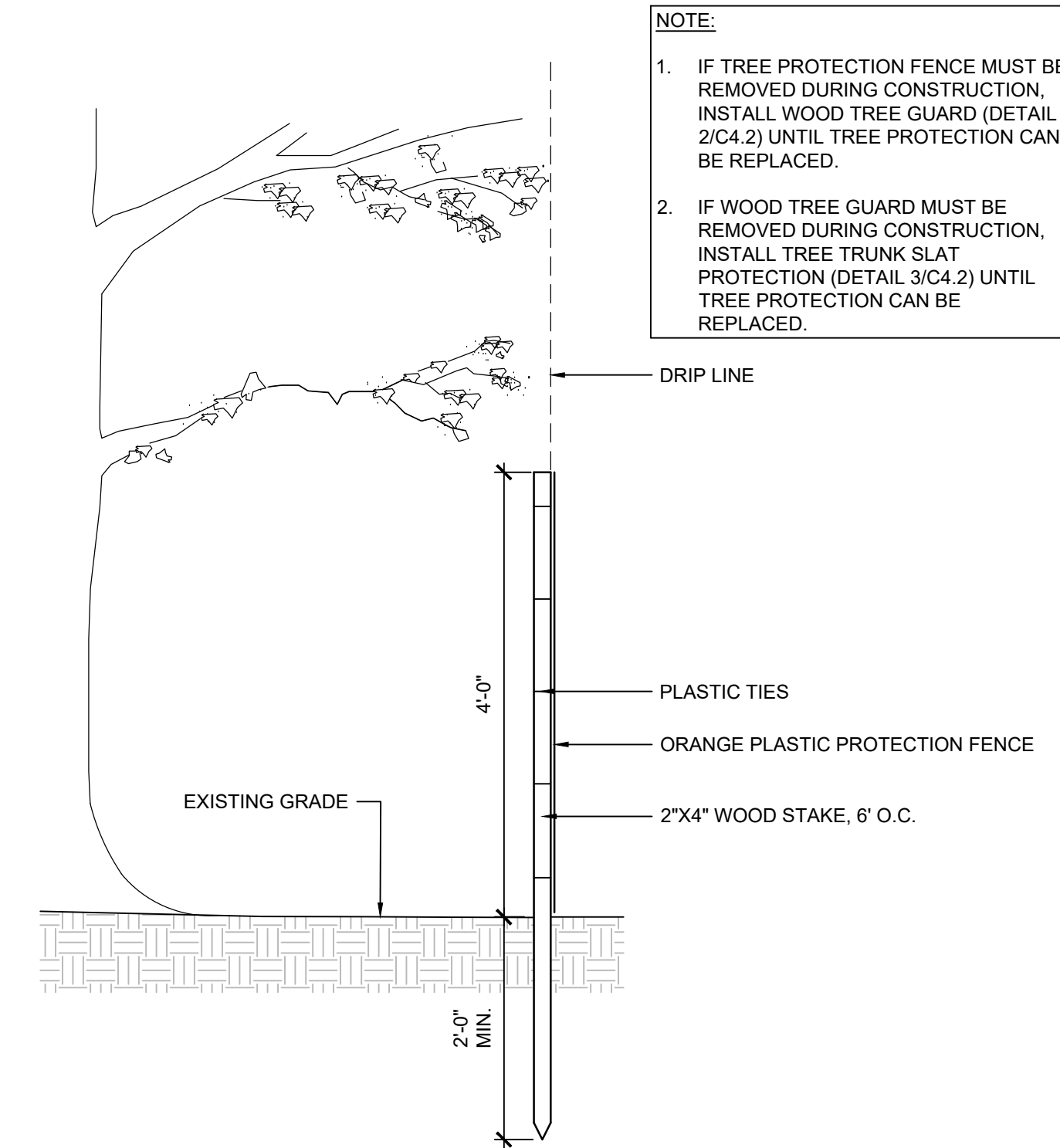


2 CONCRETE PAVEMENT JOINTS
SCALE: 3"=1'-0"



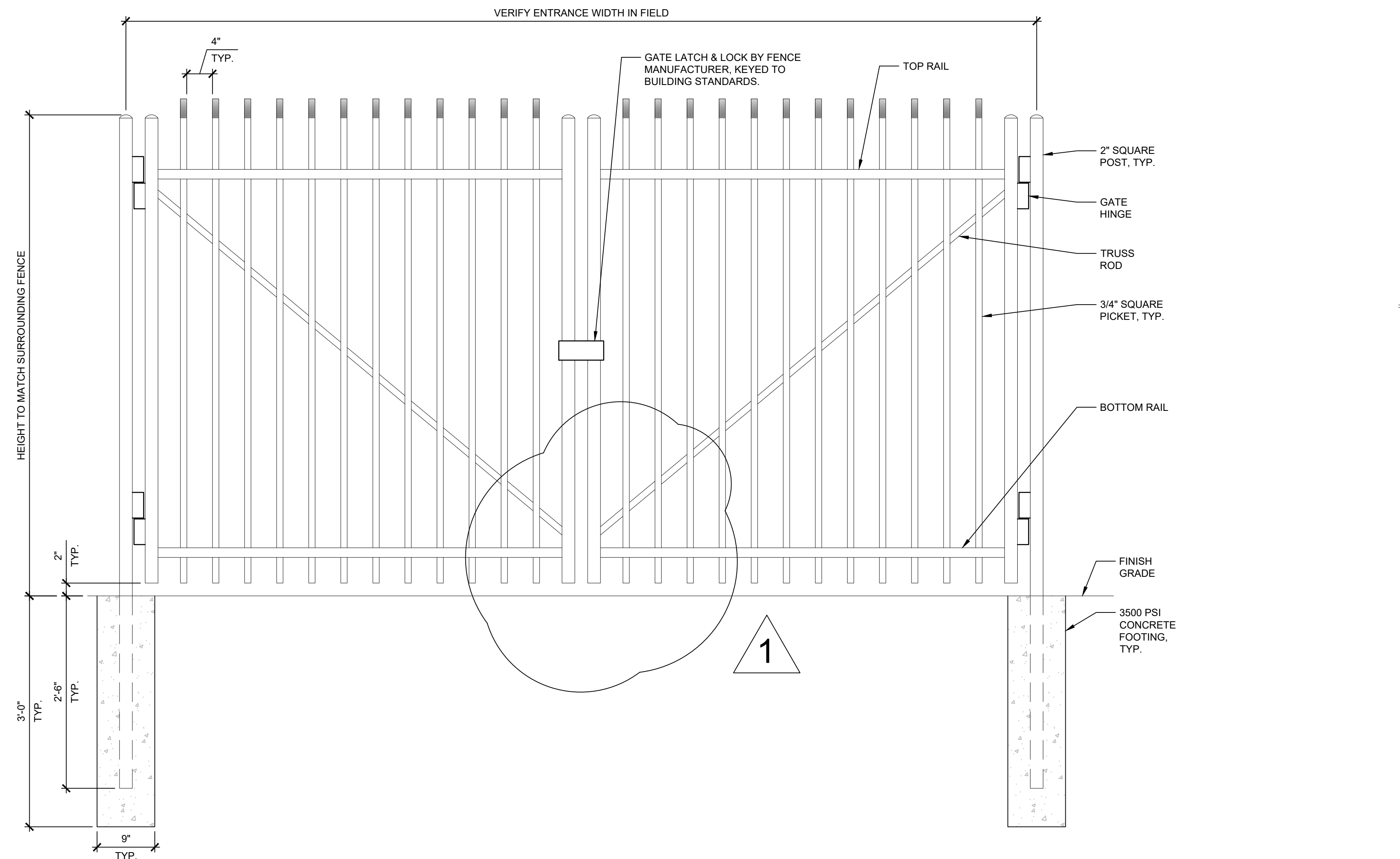
- NOTES:**
- CONTRACTOR TO VERIFY LAYOUT INFORMATION FOR FENCING AND GATE SHOWN ON DRAWINGS IN RELATION TO EXISTING STRUCTURES. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD.
 - CONTRACTOR TO SUBMIT PRODUCT DATA AND SHOP DRAWINGS OF ORNAMENTAL FENCE WITH SINGLE GATE PRIOR TO INSTALLATION FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.
 - SHOP DRAWINGS SHALL INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, POST SPACING, MOUNTING / INSTALLATION, ATTACHMENTS TO OTHER WORK, ACCESSORIES, AND HARDWARE AS NEEDED. SUBMITTAL SHALL INCLUDE ANALYSIS OF STRUCTURAL PERFORMANCE OF FENCING AND GATE FRAMEWORKS, SIGNED AND SEALED BY A LICENSED PROFESSIONAL STRUCTURAL ENGINEER IN THE STATE OF PENNSYLVANIA.
 - ALL POSTS, FRAMING, PICKETS, RAILS, AND ACCESSORIES SHALL BE POWDER COATED BLACK.
 - GATE HINGES SHALL PROVIDE 180-DEGREE INWARD AND OUTWARD SWING.
 - ADJUST GATES TO OPERATE SMOOTHLY, EASILY, QUIETLY, FREE OF BINDING, WARP, EXCESSIVE DEFLECTION, DISTORTION, NONALIGNMENT, MISPLACEMENT, DISRUPTION, OR MALFUNCTION THROUGHOUT ENTIRE OPERATIONS RANGE.
 - GATE LOCK SHALL BE BY FENCE MANUFACTURER, KEYED TO BUILDING STANDARDS.
 - CONFIRM LATCHES ENGAGE ACCURATELY AND SECURELY WITHOUT FORCING OR BINDING. LUBRICATE HARDWARE AND OTHER MOVING PARTS.
 - FENCE AND GATE SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

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

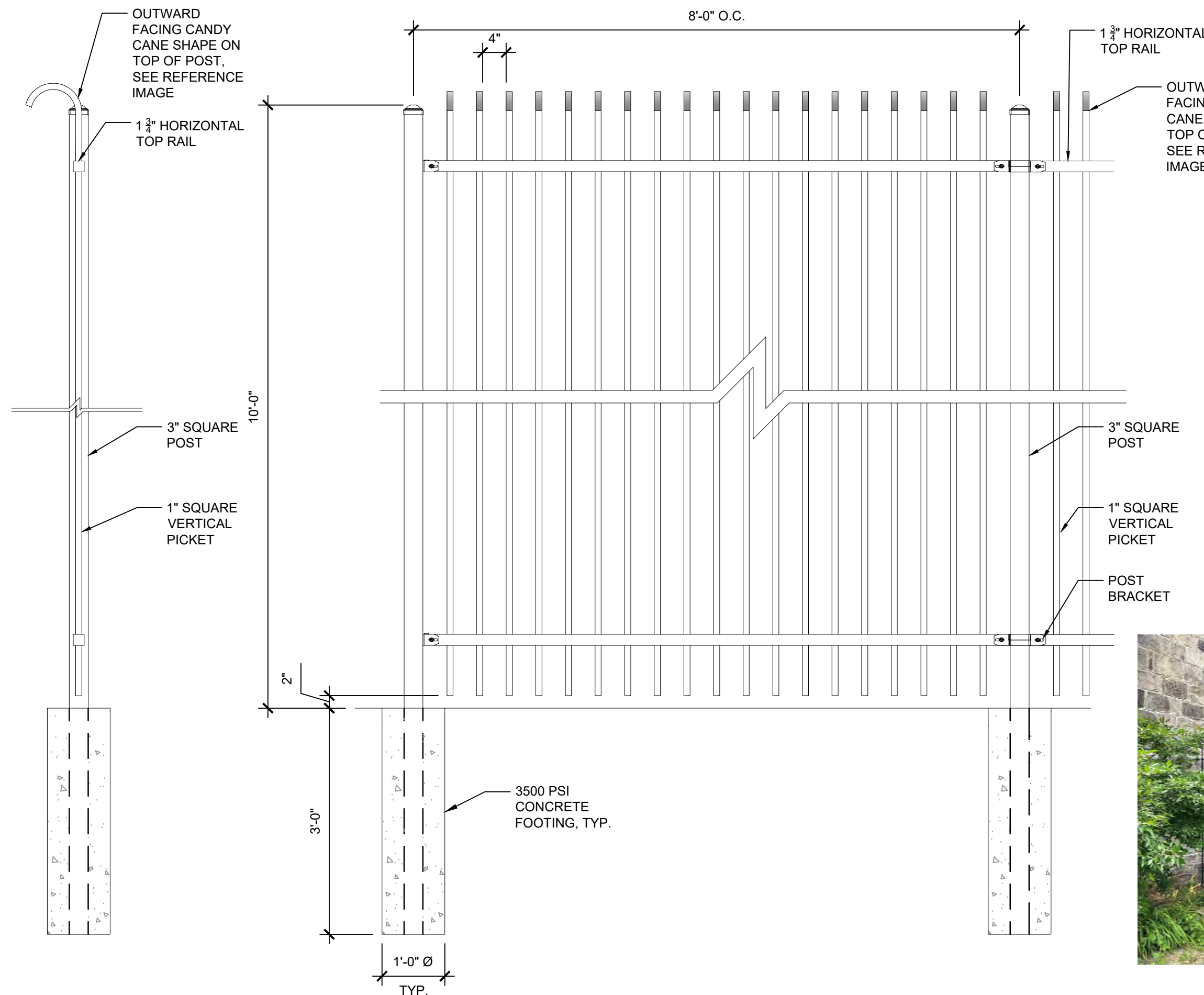


- NOTE:**
- IF TREE PROTECTION FENCE MUST BE REMOVED DURING CONSTRUCTION, INSTALL WOOD TREE GUARD (DETAIL 2(C) 2) UNTIL TREE PROTECTION CAN BE REPLACED.
 - IF WOOD TREE GUARD MUST BE REMOVED DURING CONSTRUCTION, INSTALL TREE TRUNK SLAT PROTECTION (DETAIL 3(C) 2) UNTIL TREE PROTECTION CAN BE REPLACED.

4 TREE PROTECTION FENCE
SCALE: 3/4"=1'-0"



5 CURVED PICKET SECURITY FENCE GATE
SCALE: 1"=1'-0"



6 CURVED PICKET SECURITY FENCE
SCALE: 3/4"=1'-0"

- GENERAL NOTES:**
- POSTS, RAILS, PICKETS AND HARDWARE SHALL BE BLACK.
 - FENCE MATERIALS SHALL BE ALUMINUM.
 - CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO INSTALLATION.
 - BASIS OF DESIGN TO BE SECURITY GUARD FENCE BY GUARDIAN FENCE COMPANY, LOCATED IN DELAWARE.
 - PHOTO FOR REFERENCE ONLY TO CONVEY FENCE DESIGN INTENT.



STAMP AREA

REVISIONS		
ISSUE	DATE	DESCRIPTION
1	09/26/22	ISSUE FOR BID



REVIEWED BY:
PROJECT COORDINATOR:
SEALS:



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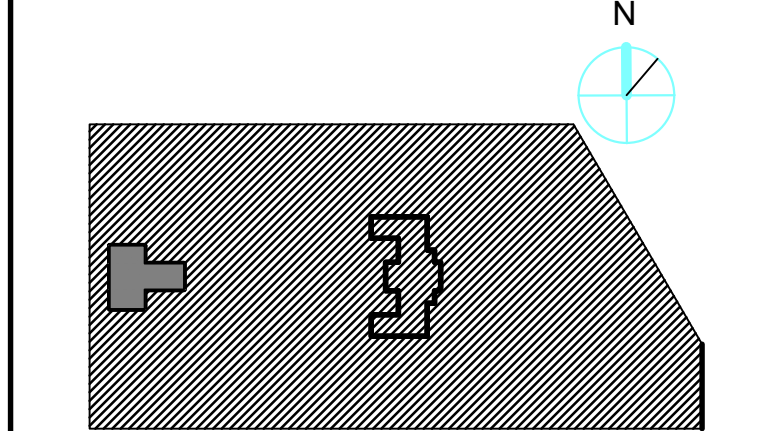


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PROJECT TITLE:

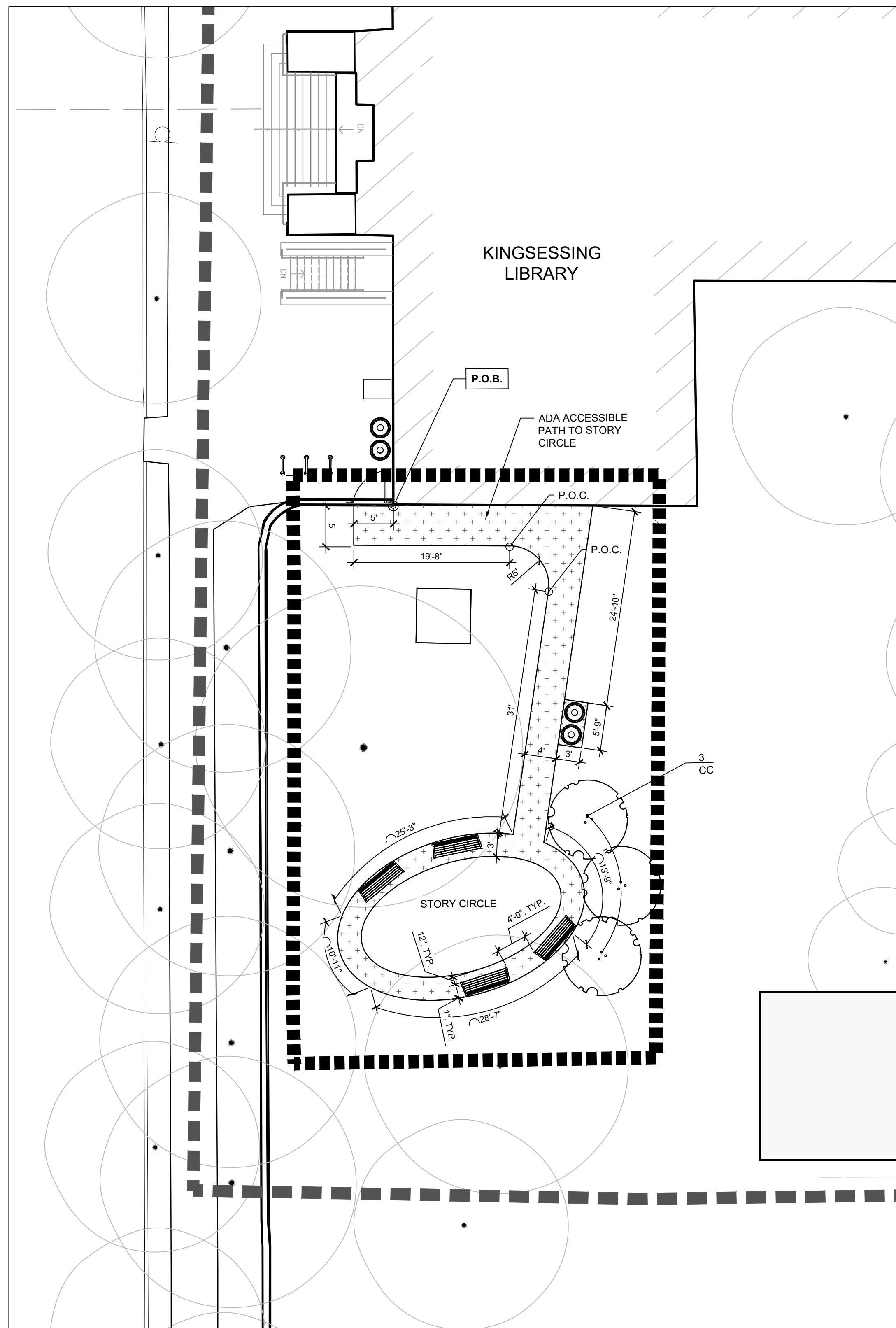
KEY PLAN:



SITE DETAILS

PROJECT NO. 21070	DRAWING NO. L501-L
DATE 09/27/2022	
SCALE AS SHOWN	
DRAWN BY AF, RH	
CHECKED BY SPS	

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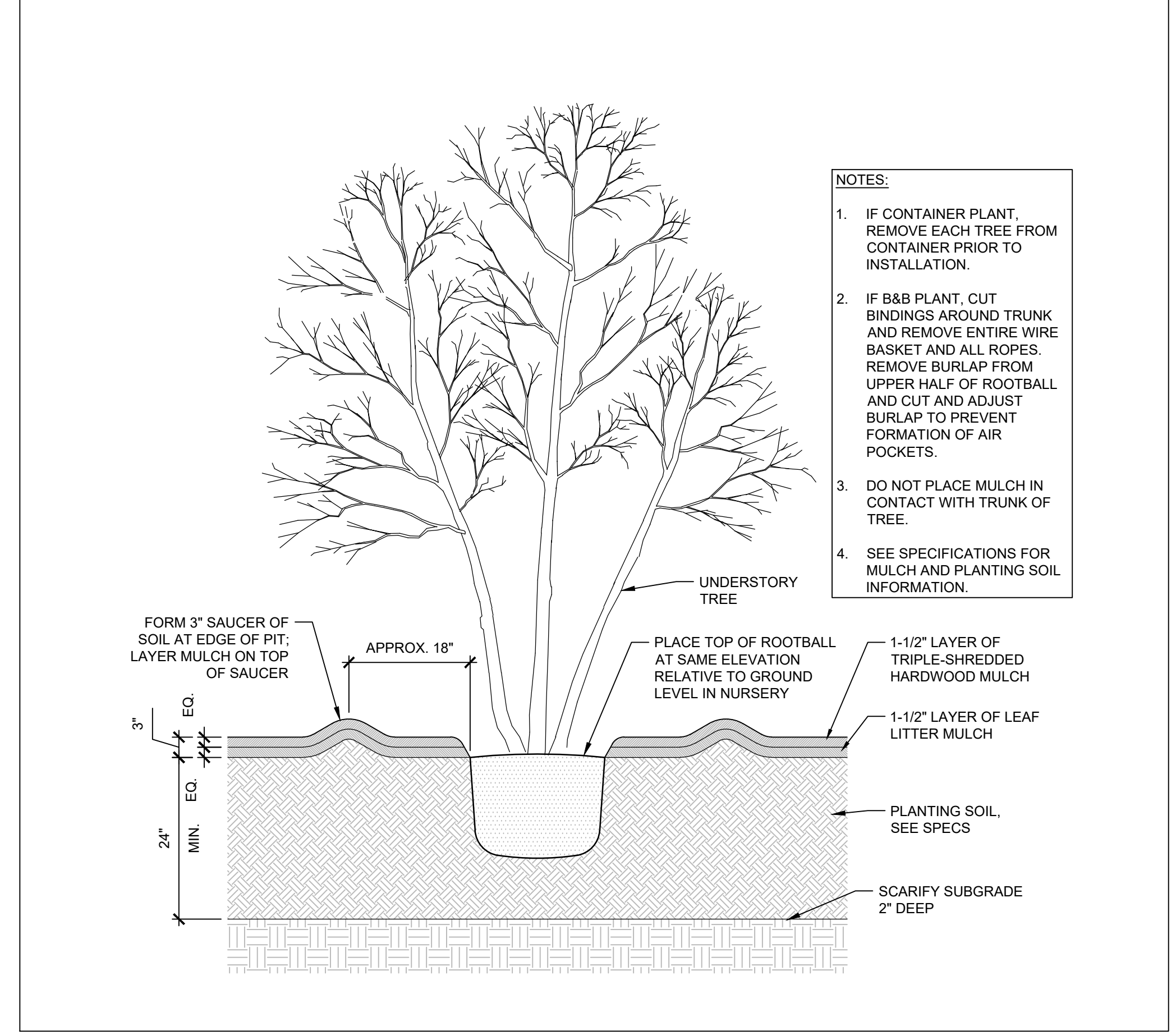
1 ALTERNATE SL1: STORY CIRCLE PLAN SCALE: 1" = 10'-0"

FURNISHING SCHEDULE:

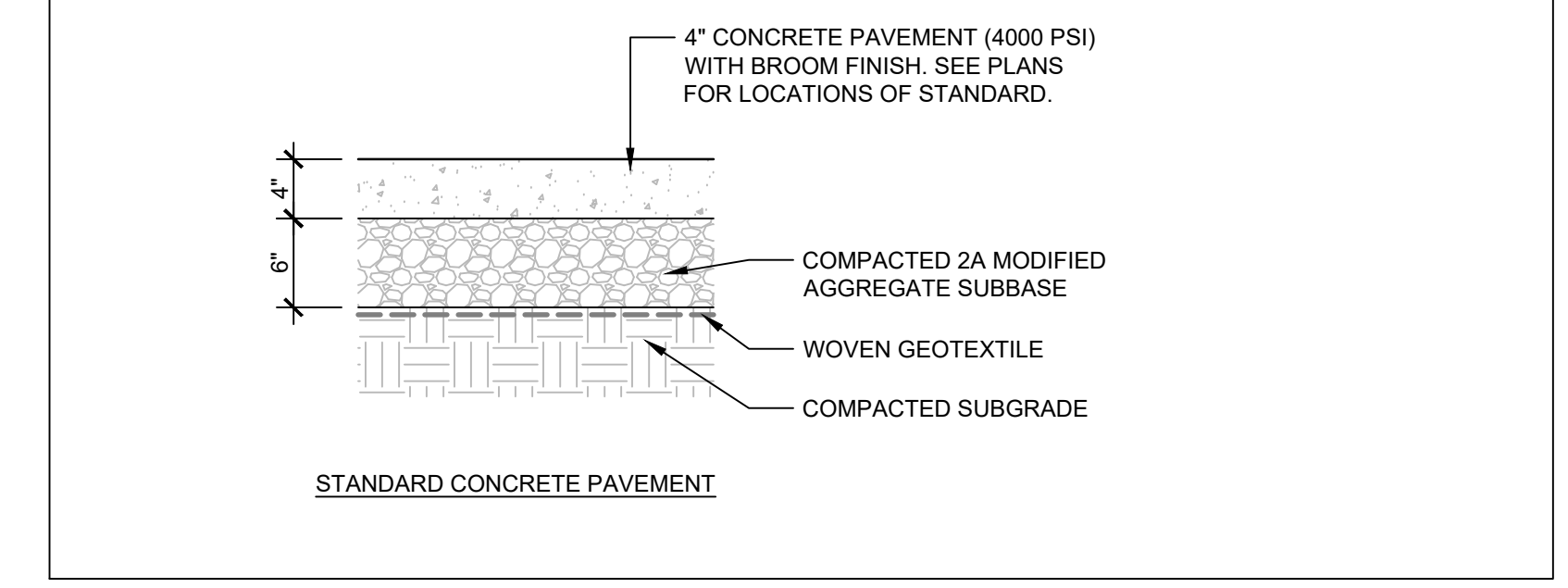
ITEM	QTY	PRODUCT NAME & MODEL NUMBER	MANUFACTURER	OPTIONS, FINISHES & COLORS	INSTALLATION
FIXED BACK BENCH	4	TRIO	FORMS+SURFACES	WOOD SLATS, POWDERCOAT COLOR: DEEP OCEAN TEXTURE	SURFACE MOUNT
LITTER RECEPTACLE	1	LAKESIDE LITTER	LANDSCAPE FORMS	GRASS DESIGN, SIDE OPEN; POWDERCOAT COLOR: GRASS	SURFACE MOUNT
RECYCLING RECEPTACLE	1	LAKESIDE RECYCLING	LANDSCAPE FORMS	GRASS DESIGN, TOP OPEN; POWDERCOAT COLOR: GRASS	SURFACE MOUNT

PLANTING SCHEDULE:

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING
CC	3	<i>Cercis canadensis</i>	Eastern Redbud	6'-8" HT.	B&B OR CONTAINER	AS SHOWN
3 TOTAL UNDERSTORY TREES						



2 UNDERSTORY TREE SCALE: 3/4" = 1'-0"



3 CONCRETE PAVEMENT SCALE: 1" = 1'-0"

ALTERNATE NOTES:

- SITE SURVEY DATA WAS PROVIDED BY REBUILD TO SALT DESIGN STUDIO ON JANUARY 04, 2022.
- ALTERNATES SHOWN SHALL BE PRICED OUT SEPARATELY FOR CLIENT ASSESSMENT.
- ALL CONSTRUCTION SHALL CONFORM TO CITY, STATE, AND FEDERAL REGULATIONS.
- CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND SUBTERRANEAN ELEMENTS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR RELOCATION INSTRUCTIONS IF A PLANT IS LOCATED WITHIN 3'-0" OF AN UNDERGROUND UTILITY.
- CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING OR CONTINUING WORK.

PLANTING NOTES:

- THERE WILL BE NO PLANT SUBSTITUTIONS, DELETIONS, OR ADDITIONS WITHOUT THE APPROVAL OF LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF SUBSOIL CONDITIONS SHOW EVIDENCE OF UNEXPECTED WATER RETENTION IN TREE PITS.
- CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES TO PREVENT SOIL LOSS AS INDICATED ON CIVIL ENGINEERING DRAWINGS.
- ALL IMPORTED PLANTING SOIL MUST BE TESTED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. SEE SPECIFICATIONS.
- SEE PLANT SCHEDULE FOR PLANT SIZES, QUANTITIES, SPECIES AND CONDITION.
- TREE LOCATIONS SHALL BE STAKED OR FLAGGED IN FIELD FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO STARTING PLANT INSTALLATION.
- ALL TREES SHALL HAVE AT LEAST 24" APPROVED PLANTING SOIL AROUND ROOTBALL. ALL SHRUBS SHALL HAVE AT LEAST 18" APPROVED PLANTING SOIL AROUND ROOTBALL.
- CONTRACTOR SHALL INSTALL IRRIGATION BAGS FOR ALL NEW UNDERSTORY TREES IMMEDIATELY UPON COMPLETION OF INSTALLATION. SEE SPECIFICATIONS.
- CONTRACTOR TO RESTORE AND REPAIR ALL DAMAGED TURFGRASS IN CONSTRUCTION AREA
- MULCH, COMPOST AND/OR LEAF LITTER IS TO BE INSTALLED AS INDICATED ON DETAILS AND IN SPECIFICATIONS.

MATERIALS NOTES:

- UNLESS OTHERWISE NOTED, EXISTING CONCRETE PAVEMENT TO REMAIN.
- EXPANSION JOINTS OCCUR AT EDGES OF ALL NEW PAVEMENTS AND EXISTING CONCRETE PAVEMENT.
- COORDINATE INSTALLATION OF FURNISHING FOUNDATIONS PRIOR TO INSTALLING SITE PAVEMENTS.
- BENCHES TO BE LAID OUT IN THE FIELD AND REVIEWED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

LAYOUT NOTES:

- CONTACT UTILITY COMPANIES AS REQUIRED BY STATE AND LOCAL REGULATIONS BEFORE DIGGING TO LOCATE AND MARK EXISTING UTILITIES.
- COORDINATE ALL UTILITY WORK WITH THE LOCATIONS AND FINAL GRADES OF ALL OTHER WORK AS SHOWN ON CIVIL ENGINEERING DRAWINGS. WHERE CONFLICTS OCCUR, NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF UTILITIES TO MAKE ADJUSTMENTS AS REQUIRED. IF NEW UTILITIES HAVE BEEN INSTALLED IN CONFLICT WITH CURBS, WALLS, PAVING, OR OTHER STRUCTURES AT DEPTHS TOO SHALLOW FOR PROPER COVER BENEATH NEW GRADES OR INCORRECT FINISHED GRADE, THEY SHALL BE ADJUSTED OR REMOVED AND REPLACED AS NECESSARY AT CONTRACTOR'S EXPENSE.
- CONTRACTOR TO OBTAIN THE LANDSCAPE ARCHITECT'S APPROVAL OF LAYOUT OF ALL SITE IMPROVEMENTS PRIOR TO INSTALLATION.
- DIMENSIONS ARE PROVIDED TO EDGE OF PAVEMENT, FRONT OF CURB, FACES OF WALLS, OR OBJECT CENTERLINE, UNLESS NOTED OTHERWISE.
- ELEMENTS SHALL BE PARALLEL OR PERPENDICULAR, UNLESS NOTED OTHERWISE.
- PROVIDE SLOPES ON PAVEMENT SURFACES AS INDICATED ON GRADING PLAN TO ALLOW FOR POSITIVE DRAINAGE. NO PONDING SHALL BE PERMITTED ON FINISHED GRADE OF SITE PAVEMENTS. AREAS WHERE PONDING OCCURS SHALL BE REGRADED AND REPAIRED AT CONTRACTOR'S EXPENSE.

LEGEND:

- CONCRETE PAVEMENT
- LIBRARY PROJECT EXTENTS
- FIXED BACK BENCH
- LITTER/RECYCLING RECEPTACLES
- UNDERSTORY TREE
- EXISTING TREE
- ADD ALTERNATE PROJECT EXTENTS
- P.O.B. POINT OF BEGINNING
- P.O.C. POINT OF CURVATURE

STAMP AREA

REVISIONS		
ISSUE	DATE	DESCRIPTION
-	09/26/22	ISSUE FOR BID



REVIEWED BY:
PROJECT COORDINATOR:
SEALS:



KELLY MAIELLO ARCHITECTS
1420 Walnut Street, 15th Floor
Philadelphia, PA 19102
www.kmarchitects.com

LANDSCAPE ARCHITECT:
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Philadelphia PA 19127
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M.E.P./F.P./SITE CIVIL ENGINEERS:
Pennoni Associates
1900 Market Street Suite 300
Philadelphia PA 19103
www.pennoni.com

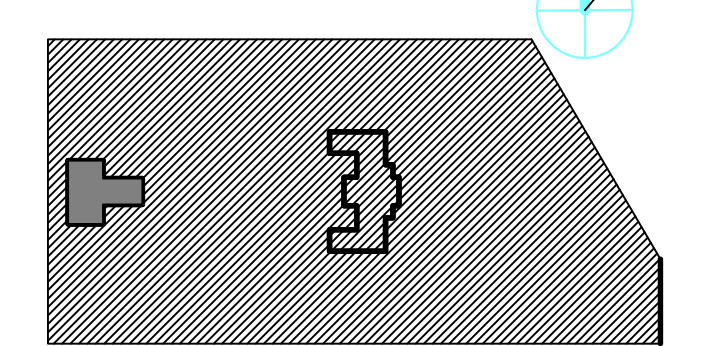
LEED CONSULTANT:
Verde Architecture Consulting
1635 Market Street Suite 1600
Philadelphia PA 19103



CITY OF PHILADELPHIA
FREE LIBRARY OF PHILADELPHIA
1901 VINE ST
PHILADELPHIA, PA 19103

PHILADELPHIA PENNSYLVANIA
PROJECT TITLE

KEY PLAN



DRAWING TITLE

ALTERNATE #1 PLAN

PROJECT NO. 21070	DRAWING NO. L801-L
DATE 09/07/2022	
SCALE AS SHOWN	
DRAWN BY AF, RH	
CHECKED BY SPS	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

GENERAL STRUCTURAL AND CONSTRUCTION NOTES

1.0 GENERAL

- 1. ALL WORK SHALL CONFORM TO THE '2018 INTERNATIONAL BUILDING CODE' AND TO ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
2. ALL CODES AND REGULATIONS REFERENCED IN THESE NOTES, INCLUDING SPECIFICATIONS REFERENCED WITHIN AND ALL FEDERAL, STATE, AND LOCAL REGULATIONS APPLY TO THE DESIGN, CONSTRUCTION, DEMOLITION, QUALITY CONTROL, AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST ADOPTED EDITIONS OF THE CODES AND STANDARDS.
3. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, SPECIFICATIONS, AND DETAILS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.
4. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED, AND PROVIDED AT NO ADDITIONAL COST. MINOR DETAILS OR INCIDENTAL ITEMS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR A PROPER AND COMPLETE INSTALLATION SHALL BE INCLUDED IN THE WORK.
5. JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL PROVIDE FOR DEWATERING AS REQUIRED DURING EXCAVATION AND CONSTRUCTION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. THE CONTRACTOR SHALL COORDINATE OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, AND DEPRESSIONS SHOWN ON THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE WEIGHT OF SUPERIMPOSED DEAD LOADS RESULTING FROM MEP EQUIPMENT INSTALLED IN THE FIELD DOES NOT EXCEED THE ALLOWABLE MEP LOADS DESIGNATED ON THE LOAD MAPS AND PLANS. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IF THE WEIGHT OF MEP EQUIPMENT EXCEEDS THAT SHOWN ON THE LOAD MAPS AND PLANS AND PROVIDE REINFORCING AS NECESSARY AT HIS OWN EXPENSE.
9. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY AND DRYWALL NON-LOAD BEARING PARTITIONS. PROVIDE SLIP CONNECTIONS THAT ALLOW VERTICAL MOVEMENT AT THE HEADS OF ALL SUCH PARTITIONS. CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE TOP OF THE WALLS LATERALLY FOR THE CODE REQUIRED LATERAL LOAD.
10. ALL COSTS OF INVESTIGATION, REDESIGN AND/OR RE-INSTALLATION DUE TO CONTRACTOR IMPROPER INSTALLATION OF STRUCTURAL ELEMENTS OR OTHER ITEMS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE.
11. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS, ARCHITECTURAL AND MECHANICAL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT PRIOR TO PERFORMING THE WORK.
12. THE CONTRACTOR SHALL VERIFY ALL EXISTING BUILDING INFORMATION SHOWN (DIMENSIONS, ELEVATIONS, ETC.) AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENT.
13. THE CONTRACTOR SHALL VERIFY AND/OR ESTABLISH ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. FAILURE TO NOTIFY ARCHITECT/ENGINEER OF UNSATISFACTORY CONDITIONS CONSTITUTES ACCEPTANCE OF UNSATISFACTORY CONDITIONS.
14. IF THE EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY AND PROVIDE A SKETCH OF THE CONDITION WITH HIS PROPOSED MODIFICATION OF THE DETAILS GIVEN ON THE CONTRACT DOCUMENTS. DO NOT COMMENCE WORK UNTIL CONDITION IS RESOLVED AND MODIFICATION IS APPROVED BY THE ARCHITECT.
15. WHERE ALTERATIONS INVOLVE THE EXISTING SUPPORTING STRUCTURE, THE CONTRACTOR SHALL PROVIDE SHORING AND PROTECTION REQUIRED TO ENSURE THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGINGS, BRACING, SHEETING, AND SHORING, ETC.
17. CONTRACTOR TO PROVIDE SHEETING, BRACING, AND UNDERPINNING AS NECESSARY TO PREVENT ANY LATERAL OR VERTICAL MOVEMENTS OF EXISTING BUILDINGS, STREETS, AND ANY EXISTING UTILITY LINES.
18. IN NO CASE SHALL HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0" FROM ANY FOUNDATION WALL. IF IT IS NECESSARY TO OPERATE SUCH EQUIPMENT CLOSER THAN 8'-0" TO THE WALL, THE CONTRACTOR SHALL BE THE SOLE RESPONSIBLE PARTY AND, AT HIS OWN EXPENSE, SHALL PROVIDE ADEQUATE SUPPORTS OR BRACE THE WALL TO WITHSTAND THE ADDITIONAL LOADS SUPERIMPOSED FROM SUCH EQUIPMENT.
19. NO BLASTING SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL.
20. SHOP DRAWINGS FOR ALL STRUCTURAL MATERIALS TO BE SUBMITTED TO ARCHITECT FOR REVIEW PRIOR TO THE START OF FABRICATION OR COMMENCEMENT OF WORK. REVIEW PERIOD SHALL BE A MINIMUM OF TWO (2) WEEKS.
21. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTALS AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
22. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL CONSTRUCTION CRITERIA, MATERIALS, AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
23. THE SHOP DRAWINGS SHALL INCLUDE DIMENSIONED FLOOR AND ROOF EDGES, OPENINGS AND SLEEVES AT ALL FLOORS REQUIRED FOR ALL TRADES.
24. THE DRAWINGS HAVE BEEN PRODUCED ENTIRELY ON PENNONI CADD SYSTEM. ANY OTHER LETTERING, LINES OR SYMBOLS, OTHER THAN PROFESSIONAL STAMPS AND SIGNATURES, HAVE BEEN MADE WITHOUT THE AUTHORIZATION OF PENNONI ARE INVALID.
25. THE STRUCTURAL DRAWINGS SHALL GOVERN THE WORK FOR ALL STRUCTURAL FEATURES, UNLESS NOTED OTHERWISE. THE ARCHITECTURAL DRAWINGS SHALL GOVERN THE WORK FOR ALL DIMENSIONS.
26. INSPECTION IS REQUIRED OF ALL CONSTRUCTION DELINEATED ON THE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS. THE OWNER SHALL EMPLOY A TESTING/INSPECTION AGENCY WHICH SHALL PROVIDE PERSONNEL WITH THE FOLLOWING MINIMUM QUALIFICATIONS:
A. CERTIFIED BY INSTITUTE OF CERTIFIED ENGINEERING TECHNICIANS, OR OTHER RECOGNIZED COMPARABLE ORGANIZATION, AND
B. FOR INSPECTION, SAMPLING, TESTING CONCRETE AND MASONRY: ACI CERTIFIED CONCRETE FIELD-TESTING TECHNICIAN, GRADE I; AND CONSTRUCTION INSPECTOR, LEVEL II.
27. STRUCTURAL STEEL INSPECTION: AWS CERTIFIED WELDING INSPECTOR.
28. SUBMIT PERIODIC REPORTS WITHIN ONE BUSINESS DAY AFTER RECEIPT BY THE CONTRACTOR TO ARCHITECT/ENGINEER AND THE CONSTRUCTION CODE OFFICE DURING CONSTRUCTION. SUBMIT FINAL INSPECTION REPORT SUMMARY FOR EACH DIVISION OF WORK, CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER, THAT INSPECTIONS WERE PERFORMED AND THAT WORK WAS PERFORMED IN ACCORDANCE WITH CONTRACT DOCUMENTS.
29. THE OWNER SHALL EMPLOY A TESTING AGENCY TO PROVIDE TESTING SERVICES AS INDICATED IN EACH SECTION OF THESE GENERAL NOTES.
30. ALL MATERIALS SHALL BE STORED TO PROTECT THEM FROM EXPOSURE TO THE ELEMENTS.

2.0 EARTHWORK

- 1. ENGINEERED (CONTROLLED COMPACTED) FILL WITHIN THE BUILDING AREA SHALL BE CONSTRUCTED PRIOR TO FOOTING (OR FILL CAP) EXCAVATION. SEE SPECIFICATIONS FOR REQUIREMENTS OF CONTROLLED COMPACTED FILL.
2. EXCAVATION SHALL BE PERFORMED SO AS NOT TO DISTURB EXISTING ADJACENT BUILDINGS, STREETS, AND UTILITY LINES. VERIFY LOCATION OF ALL UTILITIES PRIOR TO COMMENCEMENT OF WORK. HAND EXCAVATE AROUND UTILITIES AS REQUIRED.
3. SEE THE SPECIFICATIONS AND GEOTECHNICAL REPORT FOR EXCAVATION, BACKFILL AND PREPARATION OF THE FOUNDATION AND SLAB-ON-GRADE SUBGRADE, INCLUDING COMPACTION REQUIREMENTS.
4. SATISFACTORY FILL MATERIALS ARE THOSE COMPLYING WITH ASTM D2487, GROUPS GP, GW, GM, SM, SW, AND SP. ON SITE BORROW MATERIAL SHALL BE TESTED TO DETERMINE SUITABILITY FOR USE AS FILL MATERIAL.
5. COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DENSITY OF MODIFIED PROCTOR (ASTM D1557):
- UNDER BUILDING FOUNDATIONS - 98%
- UNDER BUILDING SLABS, STEPS, PAVEMENTS - 95%
6. REMOVE EXISTING VEGETATION, TOPSOIL, AND UNSATISFACTORY SOIL MATERIALS. PROOF ROOF SUBGRADE TO OBTAIN UNIFORMLY DENSIFIED SUBSTRATA PRIOR TO PLACING FILL MATERIAL EVENLY IN 8" THICK (MAXIMUM) LAYERS AND COMPACTING TO REQUIRED DENSITY.
7. THE OWNER SHALL RETAIN THE SERVICES OF A PROFESSIONAL GEOTECHNICAL ENGINEER, SUBJECT TO THE APPROVAL OF THE ARCHITECT, TO PERFORM SOIL TESTING AND INSPECTION. THE ENGINEER SHALL INSPECT THE SUBGRADE TO VERIFY BEARING LEVELS AND ENSURE THAT THE SAFE BEARING CAPACITY MEETS OR EXCEEDS THE DESIGN VALUE INDICATED BELOW. REPORTS SHALL BE SUBMITTED TO THE ARCHITECT OUTLINING THE WORK PERFORMED AND TEST RESULTS.
8. BACKFILL SHALL BE BROUGHT UP SIMULTANEOUSLY ON EACH SIDE OF WALLS AND GRADE BEAMS, WITH A GRADE DIFFERENCE NOT TO EXCEED 2'-0" AT ANY TIME.
9. DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL BASEMENT SLAB ON GRADE AND ALL FRAMED SLABS ARE IN PLACE AND HAVE ATTAINED THE SPECIFIED DESIGN STRENGTH. PROVIDE TEMPORARY SHORING WHERE REQUIRED.

STAMP AREA

3.0 FOUNDATIONS

- 1. FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING CAPACITY AND FOOTING ELEVATIONS ESTABLISHED BASED UPON ADJACENT SIMILAR SOIL CONDITIONS IN THE PROJECT VICINITY. A NEW SUBSURFACE INVESTIGATION REPORT, WITH FOUNDATION RECOMMENDATIONS, HAS NOT BEEN PROVIDED BY THE OWNER FOR THIS PROJECT AT THIS TIME. THE SOIL INFORMATION AND BEARING CAPACITY SHALL BE VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER DURING CONSTRUCTION.
2. FOOTINGS SHALL BEAR ON UNDISTURBED STRATUM OR ENGINEERED FILL WITH A MINIMUM BEARING CAPACITY OF 2,000 PSF USING TABLE 1002.2 AND ASSUMED SOIL TYPE OF SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, AND CLAYEY GRAVEL (SW, SP, SM, SC, GM AND GC).
3. FOOTINGS SHALL BEAR ON UNDISTURBED STRATUM OR ENGINEERED FILL WITH A MINIMUM BEARING CAPACITY OF 2,000 PSF.
4. PRIOR TO FOOTING CONCRETE PLACEMENT, THE FOOTING SUBGRADE SHALL BE APPROVED BY THE INSPECTING GEOTECHNICAL ENGINEER. IF CONDITIONS PROVE TO BE UNACCEPTABLE AT ELEVATIONS SHOWN, FOOTING BOTTOMS SHALL BE LOWERED TO ACCEPTABLE SUBGRADE MATERIAL. FILL OVER EXCAVATION WITH LEAN CONCRETE (2,500 PSI).
5. THE BEARING ELEVATIONS OF NEW FOOTINGS ADJACENT TO EXISTING FOOTINGS ARE TO MATCH THE ADJACENT EXISTING FOOTING BEARING ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS. SLABS ON GRADE SHALL BEAR ON MECHANICALLY COMPACTED SOIL CAPABLE OF SUPPORTING 150 PSF. DRAINAGE FILL UNDER SLABS SHALL BE COMPACTED GRAVEL OR CRUSHED STONE.
6. CONCRETE FOR FOUNDATIONS SHALL BE POURED ON THE SAME DAY THE SUBGRADE IS APPROVED BY THE GEOTECHNICAL ENGINEER.
7. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL.
8. PROVIDE A CONTINUOUS WATERSTOP AT ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS IN THE ELEVATOR PIT AND ALL OTHER PIT WALLS.
9. THE CONTRACTOR SHALL OBSERVE WATER CONDITIONS AT THE SITE AND TAKE THE NECESSARY PRECAUTIONS TO ENSURE THAT THE FOUNDATION EXCAVATIONS REMAIN DRY DURING CONSTRUCTION. ANY SHEETING OR SHORING REQUIRED FOR DEWATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. SOIL PARAMETERS:

4.0 SHEETING AND SHORING

- 1. SHEETING, SHORING, AND ASSOCIATED EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH OSHA GUIDELINES.
2. STRUCTURAL STEEL SOLDIER PILES AND RELATED MISCELLANEOUS FRAMING SHALL HAVE A MINIMUM YIELD STRESS OF 36,000 PSI. WELDING ELECTRODES SHALL BE E70.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

5.0 DEMOLITION NOTES

- 1. REMOVAL AS DESCRIBED HEREIN SHALL BE ACCOMPLISHED WITHOUT STORING ON THE FLOOR EXCESSIVE QUANTITIES OF ANY MATERIALS, RUBBISH, DIRT, DEBRIS, OR WASTE OF ANY SORT RESULTING FROM THE REMOVAL OPERATIONS ON THE FLOOR.
2. ALL DEBRIS SHALL BE REMOVED FROM THE CONSTRUCTION SITE DAILY.
3. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO MAINTAIN FREE PROTECTED ACCESS OF ALL TENANTS, SERVICE PERSONNEL AND THE PUBLIC THROUGH THE AREAS INVOLVED.
4. THE CONTRACTOR SHALL REMOVE ALL PIPE SLEEVES PROJECTING THROUGH SLAB, PATCH ALL PENETRATIONS, HOLES, ETC.
5. ALL PIPES AND CONDUITS IN WALLS THAT ARE TO BE DEMOLISHED ARE TO BE REMOVED AND/OR RELOCATED AS REQUIRED.
6. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES AND PERFORM ALL OPERATIONS REQUIRED FOR COMPLETE INTERIOR DEMOLITION AND RELATED WORK AS DESCRIBED AND SPECIFIED HEREIN, AND AS MAY BE REASONABLY IMPLIED AS NECESSARY TO COMPLETE WORK IN ALL RESPECTS.
7. JOBSITE INSPECTION MUST BE CONDUCTED TO EXAMINE EXISTING CONDITIONS, TO DETERMINE NATURE AND SCOPE OF WORK OR ANY DIFFICULTIES THAT MIGHT ARISE AT TIME OF WORK. IN ADDITION, EXAMINE ALL WORK THAT IS INTENDED TO REMAIN AS PART OF THE COMPLETED PROJECT AND REPORT ALL UNSATISFACTORY CONDITIONS TO ARCHITECT/ENGINEER PRIOR TO COMMENCEMENT OF WORK. EXERCISE EXTREME CARE DURING DEMOLITION SO AS NOT TO DAMAGE CONSTRUCTION AND OTHER STRUCTURES THAT ARE INTENDED TO REMAIN. ANYTHING DAMAGED AT WORK IS TO BE REPAIRED AND/OR REPLACED TO MATCH EXISTING CONSTRUCTION AT CONTRACTORS EXPENSE.
8. REFER TO DRAWINGS FOR EXISTING ITEMS/ SYSTEMS TO REMAIN.
9. CONTRACTOR TO PROVIDE DUST BARRIER FOR PROTECTION OF EXISTING AREAS TO REMAIN AS REQUIRED.
10. WHEN DEMOLITION TAKES PLACE, SHOULD ANY WORK AFFECT THE INTEGRITY OF THE STRUCTURE, WORK MUST STOP IMMEDIATELY AND ARCHITECT/ENGINEER NOTIFIED. UNDER NO CIRCUMSTANCES SHALL REINFORCING OF ANY KIND BE DAMAGED, CUT OR BROKEN.
11. THE GENERAL CONTRACTOR SHALL PROVIDE SUFFICIENT FRAMING FOR ALL WALL OPENINGS FOR DUCTWORK, RETURN AIR OPENINGS, ACCESS PANELS, AND BELOW GRADE CEILING HUNG CEILING. THESE ARE TO BE COORDINATED WITH H.V.A.C. ENGINEERING DRAWINGS AND THE GENERAL CONTRACTOR'S SHOP DRAWINGS AND THE GENERAL CONTRACTOR'S MECHANICAL CONTRACTOR'S SHOP DRAWINGS. ALL SPACERS SHALL BE PROPERLY SEALED FOR SOUNDPROOFING AND VIBRATION.
12. PRIOR TO DEMOLITION OF LOAD BEARING MEMBERS, SUPPORTED MEMBERS SHALL BE SHORED.

SURVEY REQUIREMENTS

- 1. BY BIDDING ON THIS PROJECT, THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR THE SURVEY REQUIREMENTS AS SHOWN ON THE CONTRACT DOCUMENTS.
2. A BID SUBMISSION THAT DOES NOT INCLUDE THE REQUIRED SURVEY REQUIREMENTS WILL RESULT IN THE REJECTION OF ANY AND ALL CONSTRUCTION PHASE SUBMISSIONS, RFPS, AND SHOP DRAWINGS.
3. ALL SURVEY WORK MUST BE PERFORMED PRIOR TO THE DEVELOPMENT OF THE SHOP DRAWINGS.
4. MODIFICATIONS TO THE CONTRACT DRAWINGS MAY BE REQUIRED, IF THE EXISTING STRUCTURE IS NOT IN CONFORMANCE WITH THE EXISTING DRAWINGS.
5. REFER TO INDIVIDUAL SHEETS "SURVEY NOTES" FOR ADDITIONAL REQUIREMENTS.
6. CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING TO DISCUSS REQUIREMENTS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
7. EXISTING DRAWINGS FOR THE ORIGINAL BUILDING ARE NOT AVAILABLE. ALL EXISTING CONDITION MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO DEVELOPING AND SUBMITTING SHOP DRAWINGS. REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ARCHITECT AND STRUCTURAL ENGINEER.

DELEGATED DESIGN / DEFERRED SUBMITTALS

- 1. ALL DESIGN REQUIREMENTS, LOADING, PERFORMANCE CRITERIA, SUBMISSION STANDARDS AND ANY OTHER APPLICABLE INFORMATION IS LOCATED IN THE GENERAL NOTES, DESIGN DATA, PLANS, SECTIONS, DETAILS AND SPECIFICATIONS (CONSTRUCTION DOCUMENTS) FOR THE DELEGATED DESIGN OF THE COMPONENTS NOTED. BY BIDDING ON THIS PROJECT, THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR THE DESIGN OF THE COMPONENTS DELEGATED BY THESE CONTRACT DOCUMENTS AND ACCEPTS THAT THERE IS ADEQUATE INFORMATION SHOWN ON THE CONTRACT DOCUMENTS TO PERFORM THE DELEGATED DESIGN.
2. A BID SUBMISSION THAT DOES NOT INCLUDE THE REQUIRED DELEGATED DESIGN WILL RESULT IN THE REJECTION OF ANY AND ALL CONSTRUCTION PHASE SUBMISSIONS, RFPS AND SHOP DRAWINGS.
3. THE ARCHITECTURAL AND STRUCTURAL DRAWINGS MAY SHOW DETAILS FOR DELEGATED DESIGN COMPONENTS, INCLUDING MINIMUM OR MAXIMUM ASSEMBLY REQUIREMENTS (I.E. DEPTH, GAGE, LENGTH, SPAN OR SPACING), OR SUGGESTED ATTACHMENT METHODS. THESE DETAILS AND INFORMATION ARE INTENDED TO BE SCHEMATIC IN NATURE, AND ARE NOT INTENDED TO BE USED FOR BID QUANTITIES. THE CONTRACTOR SHALL MAKE ALLOWANCES IN THEIR BID TO ACCOMMODATE THE COST OF THE ACTUAL ASSEMBLIES AFTER DELEGATED DESIGN IS COMPLETE.
4. THE DESIGN OF DELEGATED COMPONENTS IS THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER, WHO MUST BE REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS SHALL BEAR THIS ENGINEER'S SEAL AND SIGNATURE. THE ENGINEER MUST BE QUALIFIED TO DESIGN THE DESIGNATED ASSEMBLY AND MUST BE ABLE TO DEMONSTRATE PRIOR EXPERIENCE WITH THE DESIGN OF THE ASSEMBLY. REVIEW SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT REQUIREMENTS AS INDICATED ON THE DRAWINGS AND IN THE GENERAL NOTES.
5. THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, DRAWINGS AND CALCULATIONS FOR ALL PERFORMANCE ASSEMBLIES IDENTIFIED BELOW.
6. DELEGATED DESIGNS SHALL ALSO BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION AS DEFERRED SUBMITTALS AS PART OF THE PERMIT APPROVAL PROCESS.

DELEGATED DESIGNS/DEFERRED SUBMITTALS:

- A. THE MEP CONTRACTOR SHALL PROVIDE PRE-FABRICATED METAL OR WOOD ROOF CURBS, INCLUDING ANCHORAGE, BELOW ROOF TOP EQUIPMENT, WHERE EQUIPMENT SITS ON STEEL DUNNAGE. ALL ATTACHMENTS BETWEEN THE EQUIPMENT AND THE DUNNAGE SHALL BE PROVIDED BY THE MEP CONTRACTOR. ATTACHMENTS SHALL BE DESIGNED TO SUPPORT THE WEIGHT OF THE EQUIPMENT IN ADDITION TO ALL APPLICABLE LATERAL FORCES. REFER TO TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
B. METAL STAIRS, FENCES, AND METAL RAILINGS: DESIGNS SHALL TAKE INTO ACCOUNT ALL VERTICAL AND LATERAL LOADS REQUIRED BY APPLICABLE BUILDING CODES. WHERE HEADERS OR OTHER TYPES OF STRUCTURAL MEMBERS HAVE BEEN DESIGNATED BY THE STRUCTURAL ENGINEER OF RECORD TO SUPPORT THE STAIRS, THE CONNECTIONS FROM THE STAIRS SHALL BE DESIGNED SO THAT NO ECCENTRIC OR TORSIONAL FORCES ARE INDUCED IN THESE STRUCTURAL MEMBERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING HARDWARE AS REQUIRED BY THE STAIR DESIGN.
C. BRACING, SHEETING, SHORING, ETC.: REQUIRED TO INSURE THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDINGS OR NEW CONSTRUCTION, SIDEWALKS, UTILITIES, ETC. SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER ENGAGED BY THE CONTRACTOR. THE CONTRACTOR TO PROVIDE TEMPORARY SUPPORT OF EXPOSED UTILITIES WITHIN EXCAVATED AREAS. DETAILED SIGNED AND SEALED SHOP DRAWINGS SHALL BE PREPARED INDICATING ALL WORK TO BE PERFORMED. SUBMIT THE SHOP DRAWINGS IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS.
D. UNDERPINNING: THE GENERAL CONTRACTOR IS RESPONSIBLE FOR RETAINING THE SERVICES OF A LICENSED PROFESSIONAL STRUCTURAL AND GEOTECHNICAL ENGINEER TO ASSESS IF UNDERPINNING IS REQUIRED AND TO DESIGN/INSTALL ANY REQUIRED UNDERPINNING. THE CONTRACTOR IS RESPONSIBLE FOR ANY PRE-CONSTRUCTION SURVEYS AND FOLLOWING ALL LOCAL REGULATIONS, INCLUDING THE CITY OF PHILADELPHIA'S REQUIREMENTS TO UNDERPINNING DESIGN.
E. DEMOLITION SITE SAFETY: THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR RETAINING THE SERVICES OF A LICENSED PROFESSIONAL STRUCTURAL ENGINEER TO RENEW THE CONTRACTOR'S SITE SAFETY DEMOLITION PLAN. THE ENGINEER WILL ALSO ACT AS THE DPR-SI IN CHARGE OF DEMOLITION SPECIAL INSTRUCTIONS.

7.0 CAST-IN-PLACE CONCRETE

- 1. CONCRETE SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI-318), AND CONSTRUCTED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE 28-DAY STRENGTH OF 4,000 PSI. AIR ENTRAINMENT 4% TO 6% IN ALL EXPOSED CONCRETE WORK. MAXIMUM WATER/CEMENT RATIO OF 0.45.
3. REINFORCING STEEL - ASTM A615, GRADE 60.
4. EPOXY COATED REINFORCING STEEL - ASTM A775.
5. WELDED WIRE REINFORCEMENT (WWR) - ASTM A-185.
6. LEVELING GROUT SHALL BE NON-SHRINK, NON-METALLIC TYPE, FACTORY PRE-MIXED GROUT IN ACCORDANCE WITH CE-CRD-C621 OR ASTM C109, WITH A MINIMUM COMPRESSIVE 28-DAY STRENGTH OF 3,000 PSI.
7. REINFORCING STEEL CLEAR COVER SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

Table with 2 columns: REINFORCING STEEL IN CONCRETE CAST AGAINST SOIL, REINFORCING STEEL IN CONCRETE EXPOSED TO SOIL OR WEATHER. Rows include #5 BARS AND SMALLER (1 1/2"), #6 BARS AND LARGER (2"), SLAB AND WALL REINFORCING NOT EXPOSED TO SOIL OR WEATHER (3/4"), BEAM STIRRUPS, COLUMN TIES, AND HORIZONTAL REINFORCING IN SHEAR WALLS (1 1/2"), TOP REINFORCING IN PARKING LEVEL SLABS (1 1/2"), BOTTOM REINFORCING IN PARKING LEVEL SLABS (1").

NOTE: TOLERANCE FOR CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 117

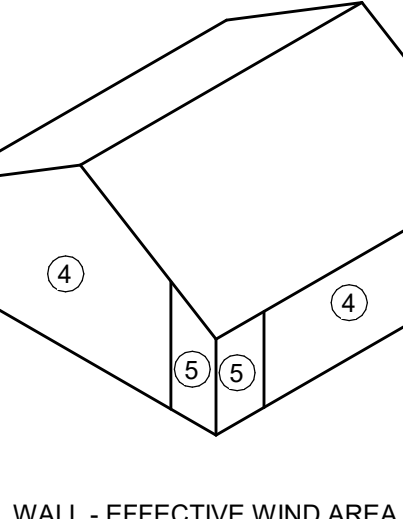
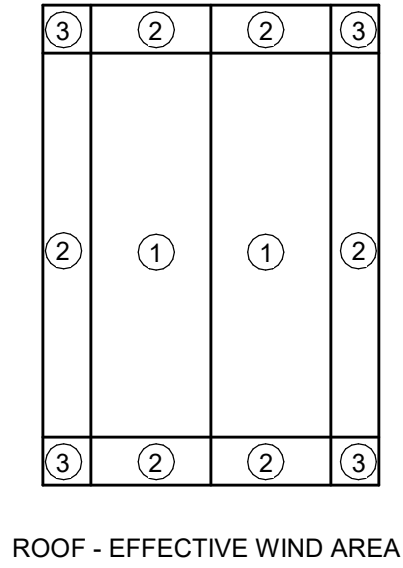
- 8. SUBMIT TO ARCHITECT/ENGINEER REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL AND MIX DESIGNS FOR REVIEW PRIOR TO PLACING ANY CONCRETE.
A. REINFORCING STEEL PLACING DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 314-92, "DETAILS AND DETAILING OF CONCRETE REINFORCING". THE PLACING DRAWINGS SHALL SHOW ALL INFORMATION NECESSARY TO FABRICATE AND PLACE THE REINFORCING STEEL.
B. THE SPACING OF ALL REINFORCING STEEL MUST BE COMPUTED BY THE REINFORCING STEEL DETAILER AND MUST BE INDICATED ON THE PLACING DRAWINGS. EXTENT ARROWS MUST BE USED TO CLEARLY INDICATE THE LOCATIONS WHERE GROUPS OF REINFORCING BARS ARE TO BE INSTALLED.
C. A LIST OF ALL APPLICABLE REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE INDICATED ON ALL REINFORCING STEEL PLACING DRAWINGS. PLACING DRAWINGS THAT DO NOT SHOW SUFFICIENT INFORMATION NEEDED TO PLACE THE REINFORCING STEEL WILL BE REJECTED.
9. ALL REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, PROVIDE PLASTIC TIPPED BOLSTERS AND CHAIRS AT ALL LOCATIONS WHERE THE CONCRETE SURFACE IS TO BE INSTALLED.
10. LAP WELDED WIRE REINFORCEMENT 200 (2) FULL WIRE SPACES AT SPLICES AND WIRE TOGETHER.
11. PROVIDE PLASTIC TIPPED BOLSTERS AND CHAIRS AT ALL LOCATIONS WHERE THE CONCRETE SURFACE IS TO BE INSTALLED.
12. PLACING OF CONCRETE SHALL NOT START UNTIL THE PLACEMENT OF REINFORCING HAS BEEN APPROVED BY THE INSPECTION AGENCY.
13. BONDING AGENT SHALL BE USED WHERE NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE. EPOXY ADHESIVE SHALL BE USED WHERE DOWELS ARE TO BE INSTALLED INTO EXISTING CONCRETE. SUBMIT MANUFACTURER INFORMATION FOR REVIEW.
14. NO SLEEVE SHALL BE PLACED THROUGH ANY CONCRETE ELEMENT UNLESS SHOWN ON THE APPROVED SHOP DRAWINGS OR SPECIFICALLY AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL SLOTS, PIPE SLEEVES, ETC. AS REQUIRED FOR MECHANICAL TRADES BEFORE CONCRETE IS PLACED.
15. PIPES OR CONDUITS PLACED IN SLABS SHALL NOT HAVE AN OUTSIDE DIAMETER LARGER THAN 1/3 THE SLAB THICKNESS AND SHALL NOT BE PLACED CLOSER THAN 3 DIAMETERS ON CENTER. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. NO CONDUITS SHALL BE PLACED IN SLABS WITHIN 12 INCHES OF COLUMN FACE OR FACE OF BEARING WALL. NO CONDUITS MAY BE PLACED IN EXTERIOR SLABS OR SLABS SUBJECTED TO FLOODING.
16. PRIOR TO PLACING CONCRETE, THE CONTRACTOR SHALL SUBMIT FOR REVIEW BY THE STRUCTURAL ENGINEER A CONCRETE POUR SCHEDULE SHOWING LOCATION OF ALL PROPOSED CONSTRUCTION JOINTS AND WATERSTOPS.
17. PRIOR TO CONCRETE PLACEMENT, THE CONTRACTOR SHALL SUBMIT TO THE STRUCTURAL ENGINEER FOR REVIEW, CONCRETE MIX DESIGNS PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS INDICATED IN THE GENERAL NOTES.
18. CONCRETE SHALL NOT BE PUMPED THROUGH ALUMINUM PIPES AND SHALL NOT BE PLACED IN CONTACT WITH ALUMINUM FORMS, MIXING DRUMS, BUGGIES, CHUTES, CONVEYORS OR OTHER EQUIPMENT MADE OF ALUMINUM.
19. ALL INSERTS AND SLEEVES SHALL BE CAST-IN-PLACE WHENEVER FEASIBLE. DRILLED OR POWDER DRIVEN FASTENERS WILL BE PERMITTED WHEN PROVEN TO THE SATISFACTION OF THE STRUCTURAL ENGINEER THAT THE FASTENERS WILL NOT SPALL THE CONCRETE AND HAVE THE SAME CAPACITY AS CAST-IN-PLACE INSERTS.
20. WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. HOLES SHALL BE BLOWN CLEAN PRIOR TO PLACING BOLTS OR ADHESIVE ANCHORS. CHAMFER ALL EXPOSED CONCRETE CORNERS UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
21. THE CONCRETE SLABS SHALL BE FINISHED FLAT AND LEVEL WITHIN TOLERANCE, TO THE ELEVATION INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONCRETE REQUIRED DUE TO FORMWORK, METAL DECK, AND FRAMING DEFLECTION TO ACHIEVE THIS FINISHED TOP OF SLAB ELEVATION. THE CONTRACTOR SHALL PROVIDE FOR A MINIMUM OF 5/8" AVERAGE THICKNESS FOR ADDITIONAL CONCRETE DURING PLACEMENT FOR ALL SLABS SUPPORTED AND FORMED ON STEEL DECK OVER THE ENTIRE FLOOR AREA. THE CONTRACTOR SHALL PROVIDE THE MEANS BY WHICH THE MAXIMUM AND MINIMUM CONCRETE SLAB THICKNESS CAN BE MONITORED AND VERIFIED DURING AND AFTER THE PLACING AND FINISHING OPERATIONS.
22. CONSTRUCTION JOINTS FOR MILD-REINFORCED CONCRETE SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF SPAN. PROPOSED CONSTRUCTION JOINT LOCATIONS SHALL BE SHOWN ON REINFORCING STEEL SHOP DRAWINGS. ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS, UNLESS OTHERWISE SHOWN. ALL REINFORCING IS TO BE CONTINUOUS THROUGH JOINTS.
23. CONSTRUCTION JOINTS FOR SLABS ON METAL DECK SHALL BE LOCATED MIDWAY BETWEEN BEAMS WHERE THE JOINT IS PARALLEL TO THE BEAM SPAN. JOINTS SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF SPAN WHERE THE JOINT IS PERPENDICULAR TO THE BEAM SPAN. ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS, UNLESS OTHERWISE SHOWN. ALL REINFORCING IS TO BE CONTINUOUS THROUGH JOINTS.
24. EARLY DRYING OUT OF CONCRETE, ESPECIALLY DURING THE FIRST 24 HOURS, SHALL BE CAREFULLY GUARDED AGAINST. ALL SURFACES SHALL BE MOIST CURED OR PROTECTED USING A MEMBRANE CURING AGENT APPLIED AS SOON AS FORMS ARE REMOVED. IF MEMBRANE CURING AGENT IS USED, EXERCISE CARE NOT TO DAMAGE COATING.
25. COLD WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI-308. HOT WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI-308R.
26. THROUGHOUT CONSTRUCTION, THE CONCRETE WORK SHALL BE ADEQUATELY PROTECTED AGAINST DAMAGE DUE TO EXCESSIVE LOADING, CONSTRUCTION EQUIPMENT, MATERIALS OR METHODS, ICE, RAIN, SNOW, EXCESSIVE HEAT, AND FREEZING TEMPERATURES.
27. PREPARE CONCRETE TEST CYLINDERS FROM EACH DAY'S POUR. CYLINDERS SHALL BE PROPERLY CURED AND STORED. SAMPLE FRESH CONCRETE IN ACCORDANCE WITH ASTM C172.
28. RETAIN LABORATORY TO PROVIDE TESTING SERVICE. SLUMP PER ASTM 143 AIR CONTENT PER ASTM C231 OR C173, CYLINDER TESTS PER ASTM C31 AND C39. ONE SET OF SIX (6) CYLINDERS FOR EACH 50 CUBIC YARDS FOR EACH MIX USED. REPORTS OF ALL TESTS TO BE SUBMITTED TO THE ARCHITECT.

LATERAL LOAD DESIGN: 2018 PHILADELPHIA BUILDING CODE / ASCE 7-16. WIND TABLE with columns: DESCRIPTION, SYMBOL, VALUE. Includes wind exposure category, internal pressure coefficient, seismic design category, and response modification factor.

FLOOR DESIGN LOADS TABLE with columns: DESCRIPTION, VALUE. Includes first floor at elevator - dead load (20 psf) and first floor at elevator - live load (100 psf).

SNOW LOAD TABLE with columns: DESCRIPTION, SYMBOL, VALUE. Includes ground snow load (Fg), snow exposure factor (Ce), snow load importance factor (Ia), thermal factor (Ct), snow slope factor (Cs), and roof snow load (Pr).

COMPONENT AND CLADDING (ULT) WIND PRESSURE (psf) TABLE. Includes wall pressure and roof effective wind area tables with columns for zone, effective wind area, roof/wall neg/pos.



REVISIONS

Table with columns: ISSUE, DATE, DESCRIPTION.

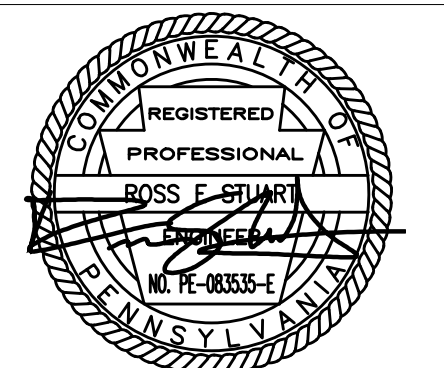
Table with columns: ISSUE, DATE, DESCRIPTION. Shows revisions 0 and 1.



REVIEWED BY:

PROJECT COORDINATOR

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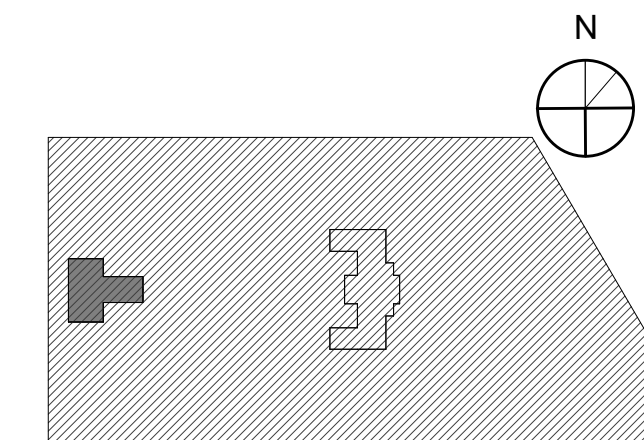


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STRUCTURAL GENERAL NOTES

PROJECT NO. 21070 DRAWING NO.

DATE 09/07/22

SCALE 1/2" = 1'-0"

DRAWN BY WZD/MB

CHECKED BY P/MB/MB

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

S001-L

REVISIONS

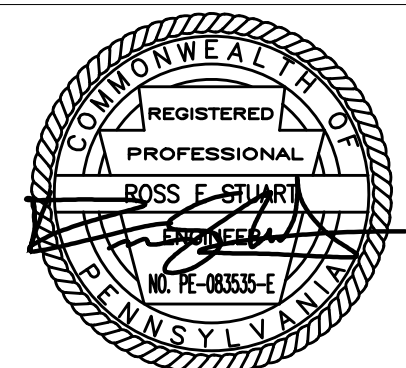
ISSUE	DATE	DESCRIPTION
0	09/07/22	ISSUE FOR BID
1	09/26/22	ISSUE FOR BID



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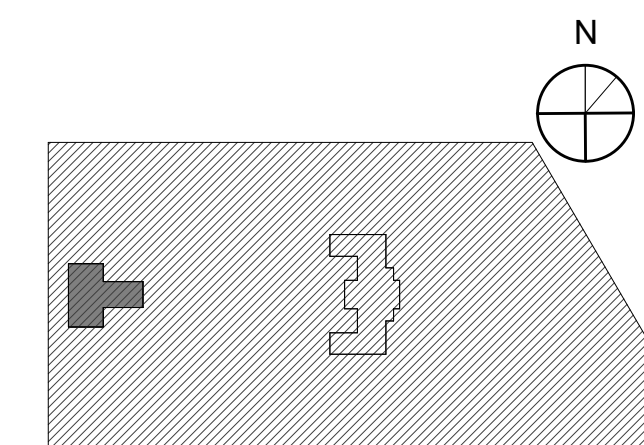


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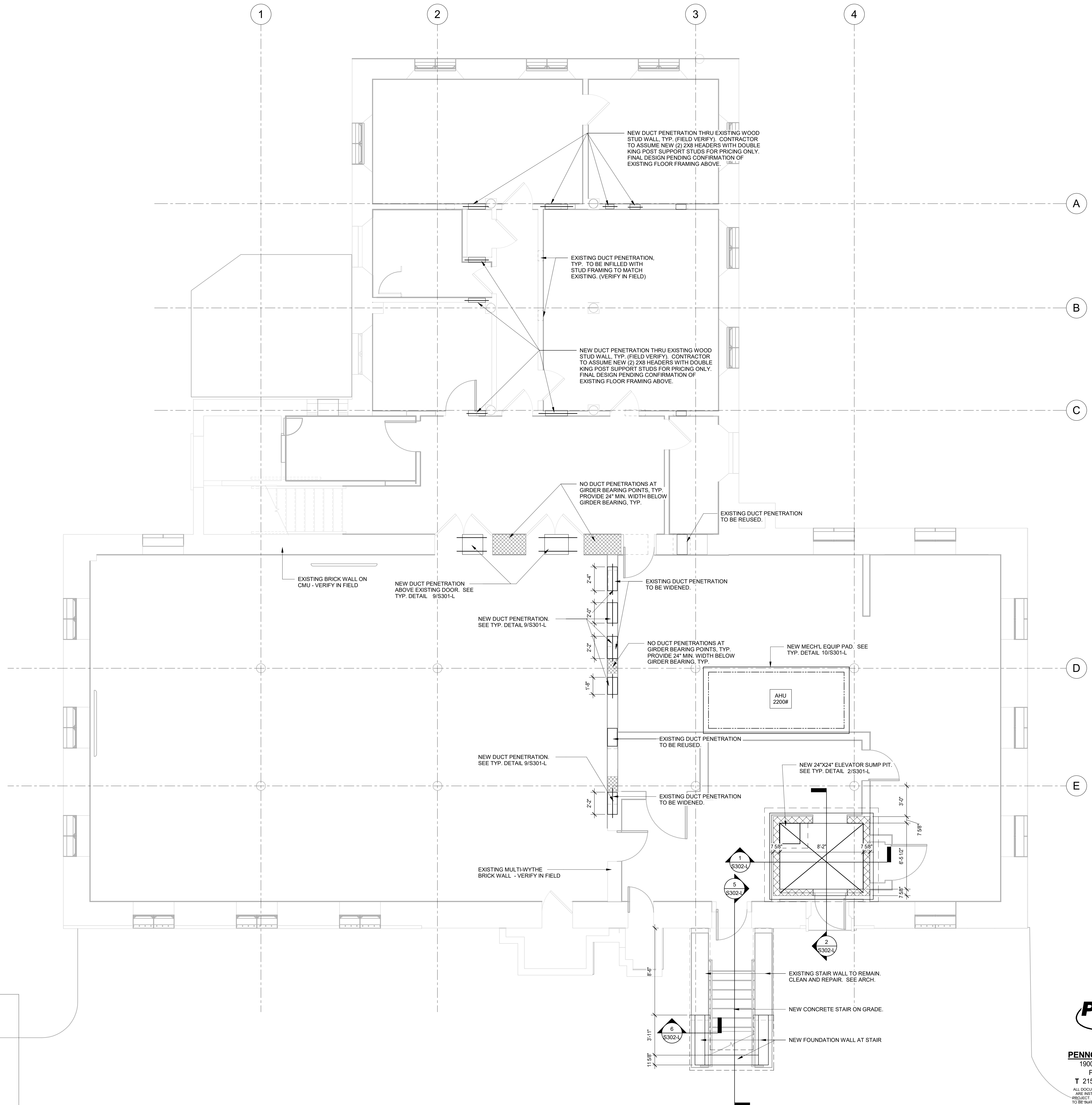
KEY PLAN



LOWER LEVEL FRAMING
PLAN

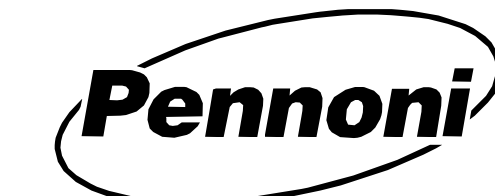
PROJECT NO.	21070	DRAWING NO.	S101-L
DATE	09/07/22		
SCALE	As Indicated		
DRAWN BY	WZG/AB		
CHECKED BY	PHD/AB		

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



- PLAN NOTES:**
- DATUM ELEVATION (0'-0") IS TOP OF EXISTING FIRST FLOOR SLAB.
 - GC TO COORDINATE FINAL DIMENSIONS WITH MANUFACTURER OR SUBCONTRACTOR.
 - SEE GENERAL STRUCTURAL NOTES FOR WORK INVOLVING MODIFICATION OF THE EXISTING STRUCTURE.
 - SEE ARCHITECTURAL DRAWINGS FOR DEMOLITION OF EXISTING CONSTRUCTION NOT SHOWN.
 - REF. STRUCTURAL DEMOLITION SHEETS FOR DEMOLITION SEQUENCE.

STAMP AREA



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1 LOWER LEVEL FRAMING PLAN
1/4" = 1'-0"

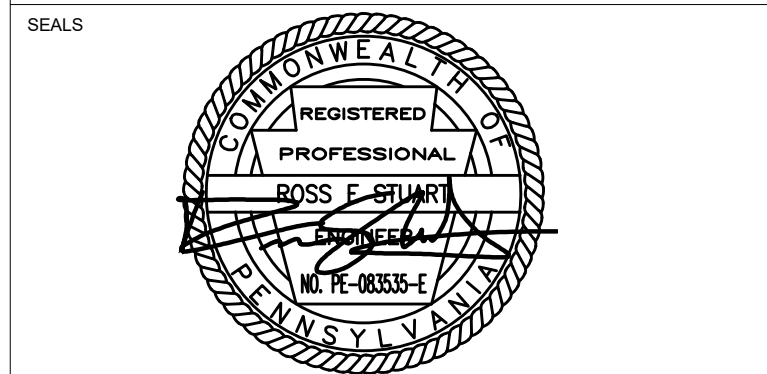


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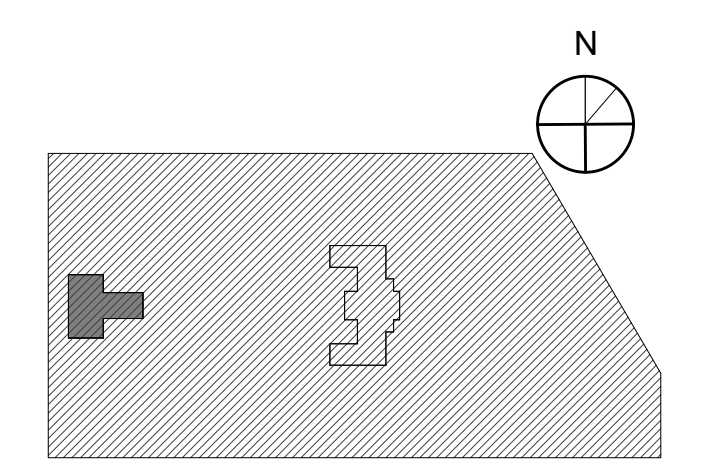


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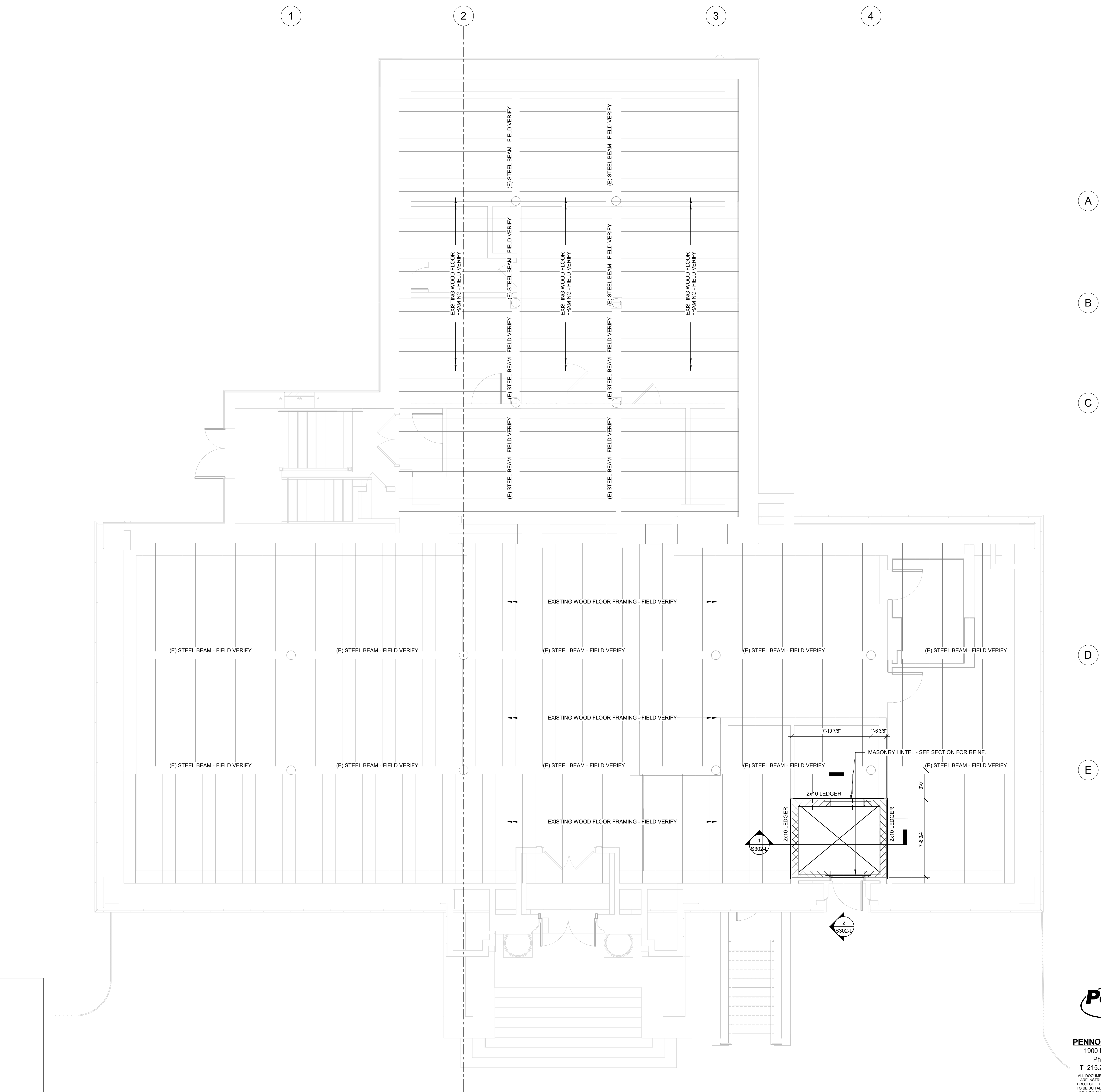


FIRST FLOOR FRAMING PLAN

PROJECT NO. **21070** DRAWING NO. **S102-L**

DATE 09/07/22
 SCALE As indicated
 DRAWN BY WZD/MS
 CHECKED BY PWD/MS

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



- PLAN NOTES:**
- DATUM ELEVATION (0'-0") IS TOP OF EXISTING FIRST FLOOR SLAB.
 - GO TO COORDINATE FINAL DIMENSIONS WITH MANUFACTURER OR SUBCONTRACTOR.
 - SEE GENERAL STRUCTURAL NOTES FOR WORK INVOLVING MODIFICATION OF THE EXISTING STRUCTURE.
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 - REF. STRUCTURAL DEMOLITION SHEETS FOR DEMOLITION SEQUENCE.

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FIRST FLOOR FRAMING PLAN
 1/4" = 1'-0"

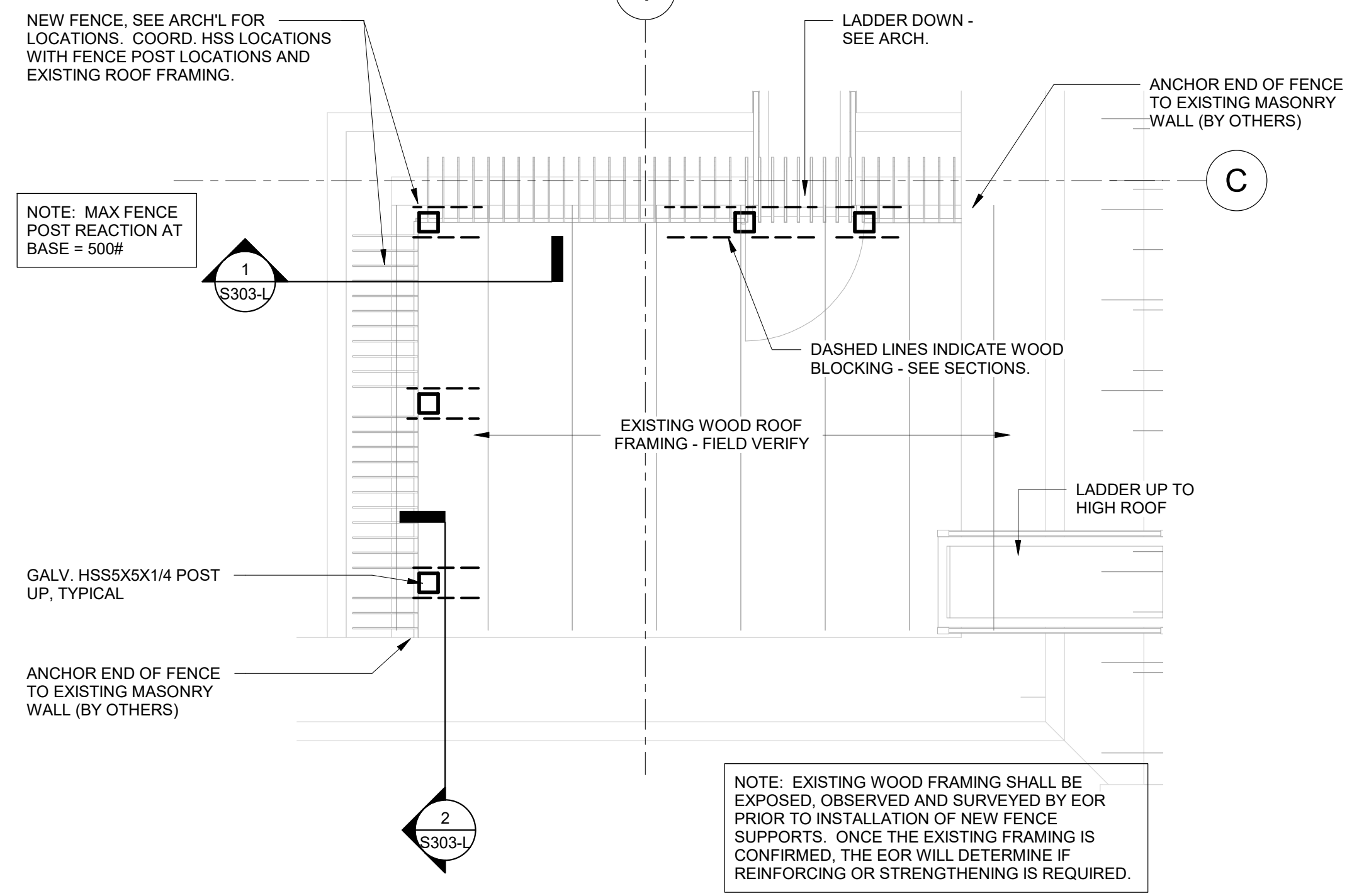


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2 ENLARGED PARTIAL ROOF PLAN
3/8" = 1'-0"

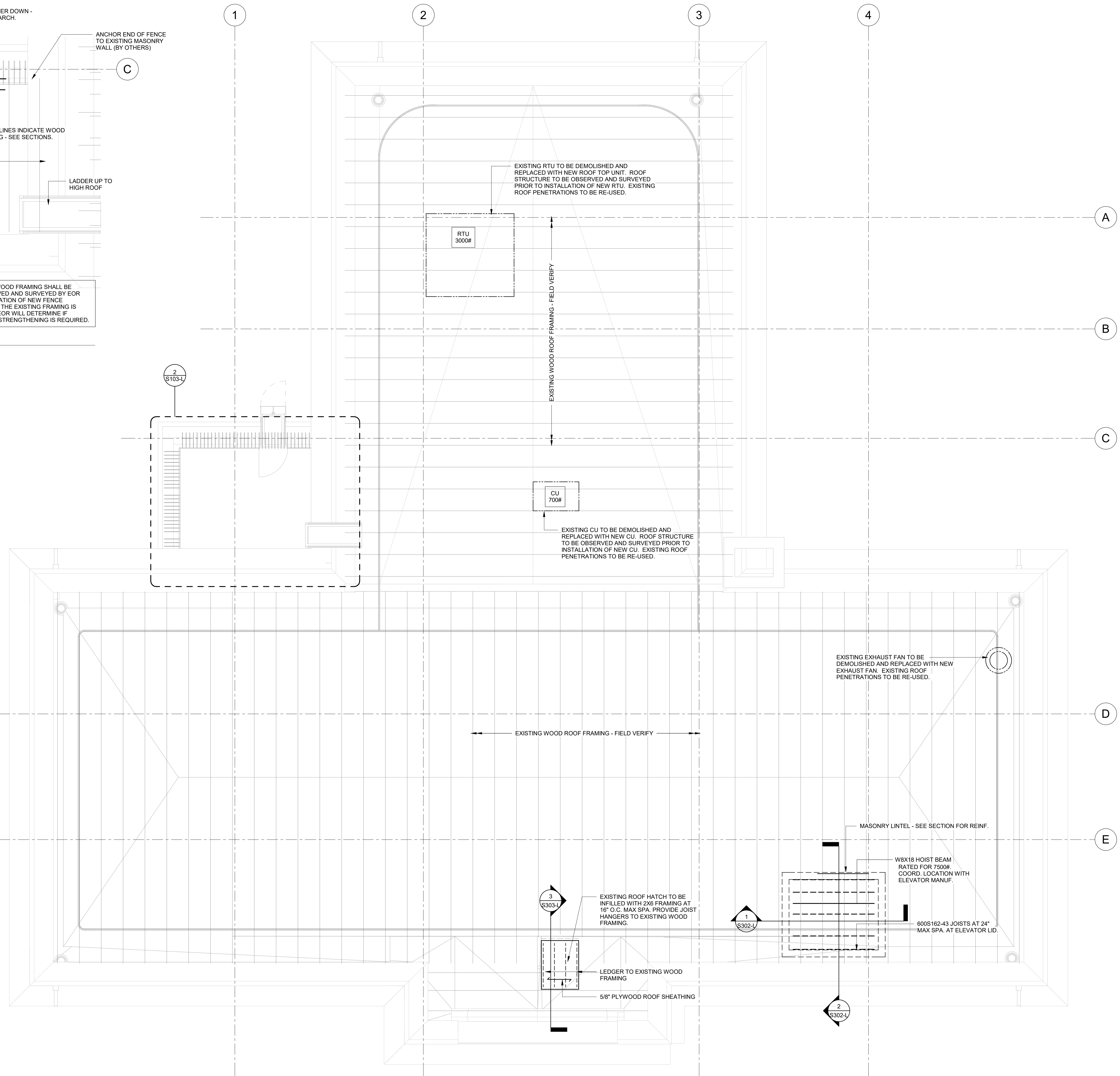
PLAN NOTES:

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1 ROOF FRAMING PLAN
1/4" = 1'-0"



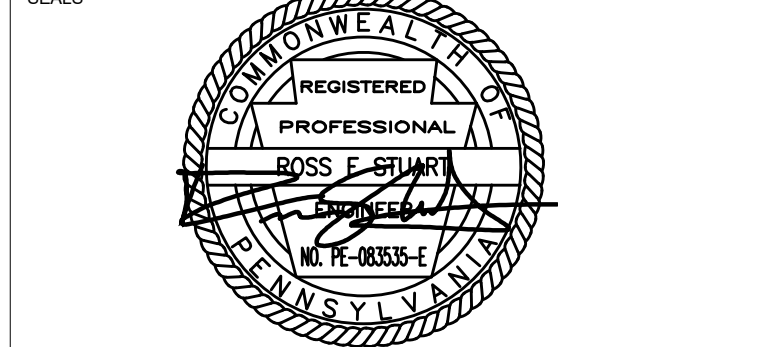
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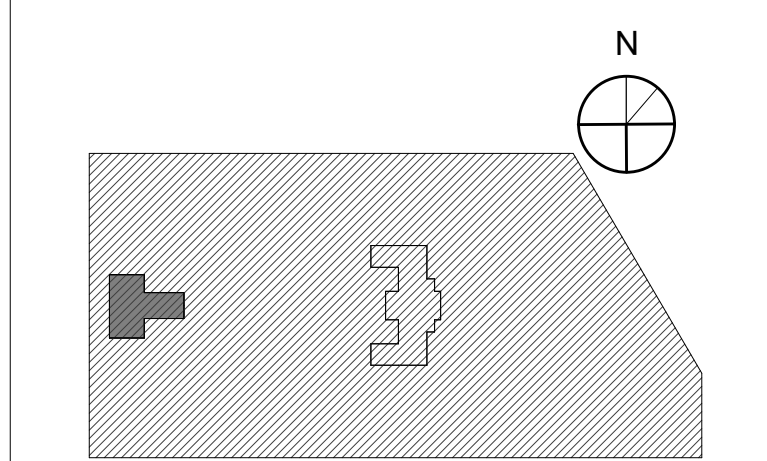


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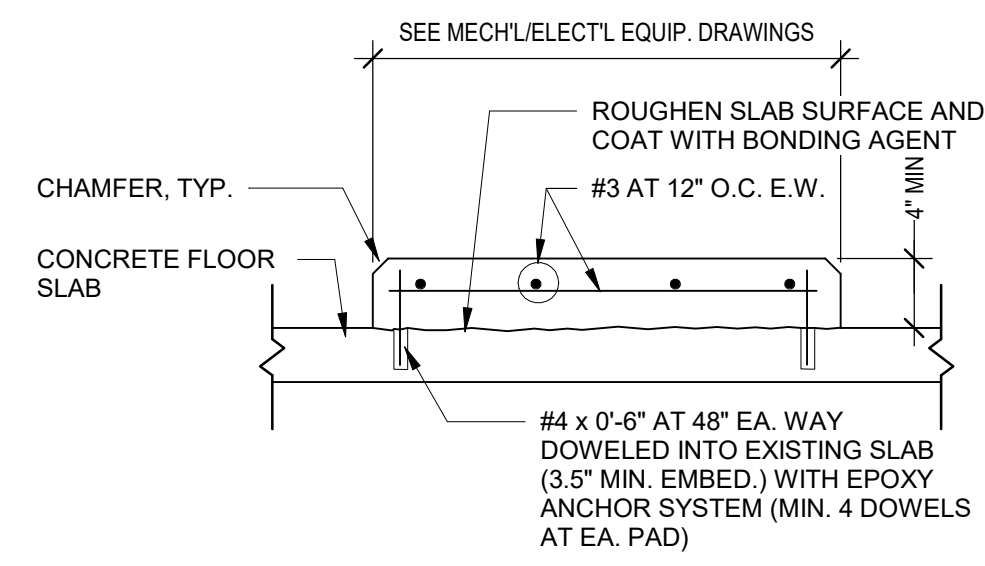


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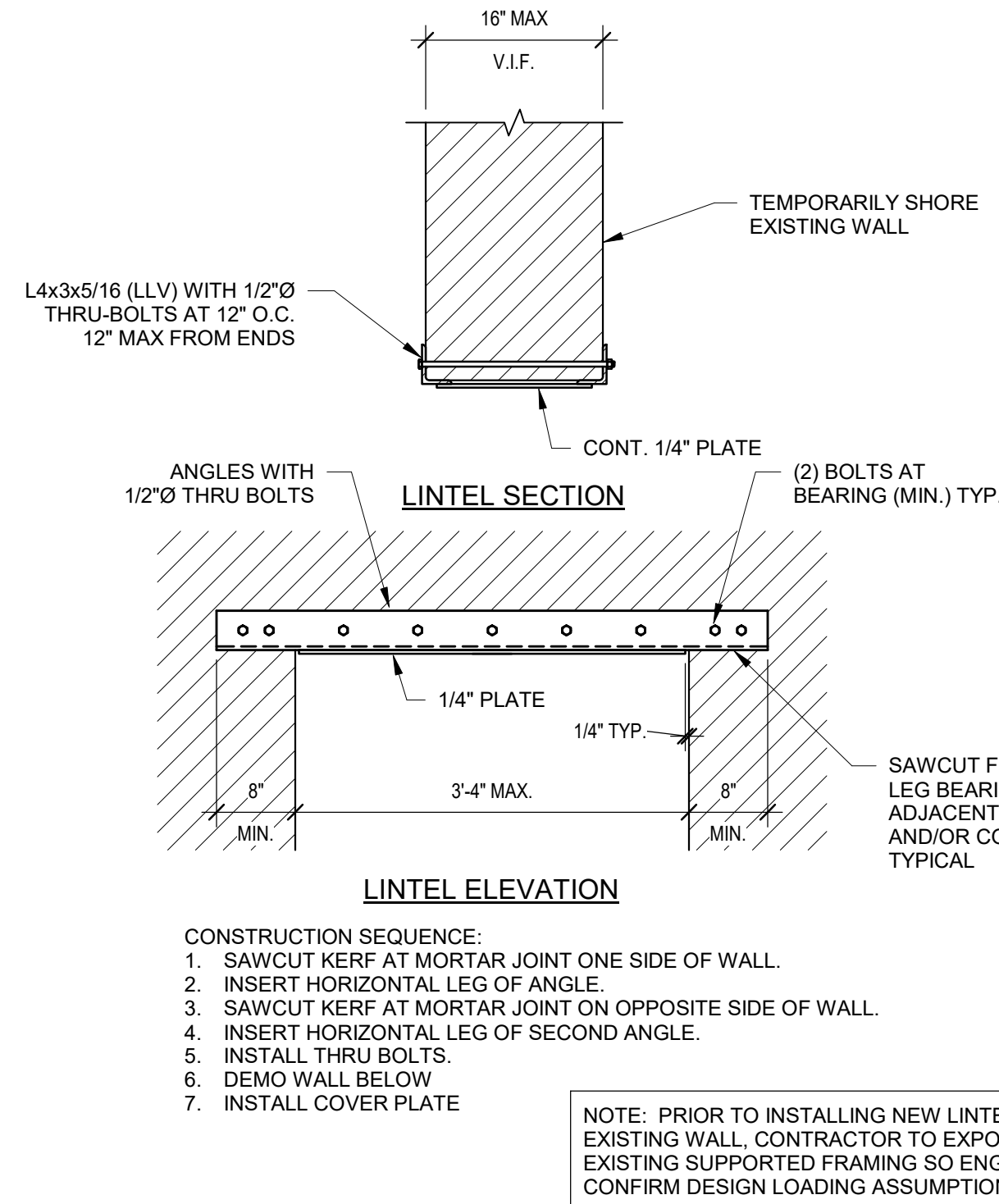
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SCALE	As indicated				
DRAWN BY	WZGNB				
CHECKED BY	PAMD8				

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



④ TYPICAL MECHANICAL EQUIPMENT PAD
3/4" = 1'-0"



⑤ TYPICAL NEW OPENING IN EXISTING MASONRY WALL DETAIL
3/4" = 1'-0"

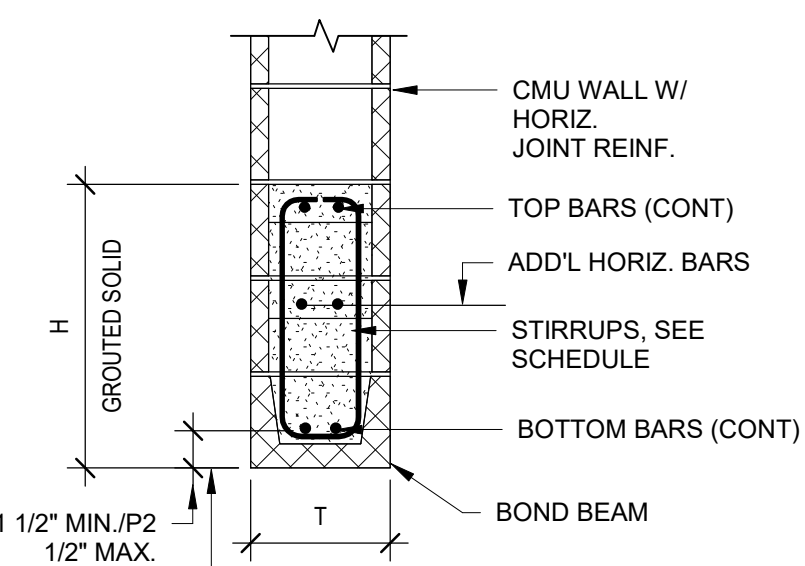
LINTEL SCHEDULE

- ML-1 (42" MAX OPENING): 16" DEEP, (1) #5 TOP AND BOT
- ML-2 (130" MAX OPENING): AT 8" WALLS: 24" DEEP, (2) #6 BOT, (2) #6 TOP, #3 STIRRUPS AT 9" O.C. ALTERNATE: W8X28
- ML-3 (172" MAX OPENING): 16" DEEP, (1) #5 TOP AND BOT

- NOTES:
1. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR LOCATIONS OF OPENINGS IN ALL CMU WALLS. FOR OPENINGS IN NON-STRUCTURAL CMU WALLS AND CMU VENEER, REFER TO THE LINTEL SCHEDULE NOTED IN GENERAL NOTES.
2. PROVIDE VERTICAL WALL REINFORCING AT ALL JAMBS PER TYPICAL DETAILS. CONTINUE VERTICAL WALL REINFORCING THROUGH BOND BEAM LINTELS.
3. PROVIDE 8" MINIMUM BEARING AT EACH END FOR BOND BEAM LINTELS.

④ TYPICAL MASONRY WALL LINTEL
3/4" = 1'-0"

⑥ MASONRY WALL BOND BEAM REINFORCING
3/4" = 1'-0"



MISCELLANEOUS BOND OR PRECAST MASONRY LINTEL SCHEDULE

WALL THICKNESS	MASONRY OPENING UP TO 6'-0"	MASONRY OPENING 6'-1" TO 8'-0"	MASONRY OPENING 8'-1" TO 10'-0"
6" WALL	6"x8" CONCRETE WITH (1) - #5 TOP AND BOTTOM		
8" WALL	8"x8" CONCRETE WITH (2) - #4 TOP AND BOTTOM OR 8"x16" BOND BEAM WITH (1) - #5 TOP AND BOTTOM	8"x8" CONCRETE WITH (2) - #4 TOP AND BOTTOM OR 8"x16" BOND BEAM WITH (1) - #5 TOP AND BOTTOM	8"x12" CONCRETE WITH (2) - #5 TOP AND BOTTOM OR 8"x16" BOND BEAM WITH (2) - #5 TOP AND BOTTOM

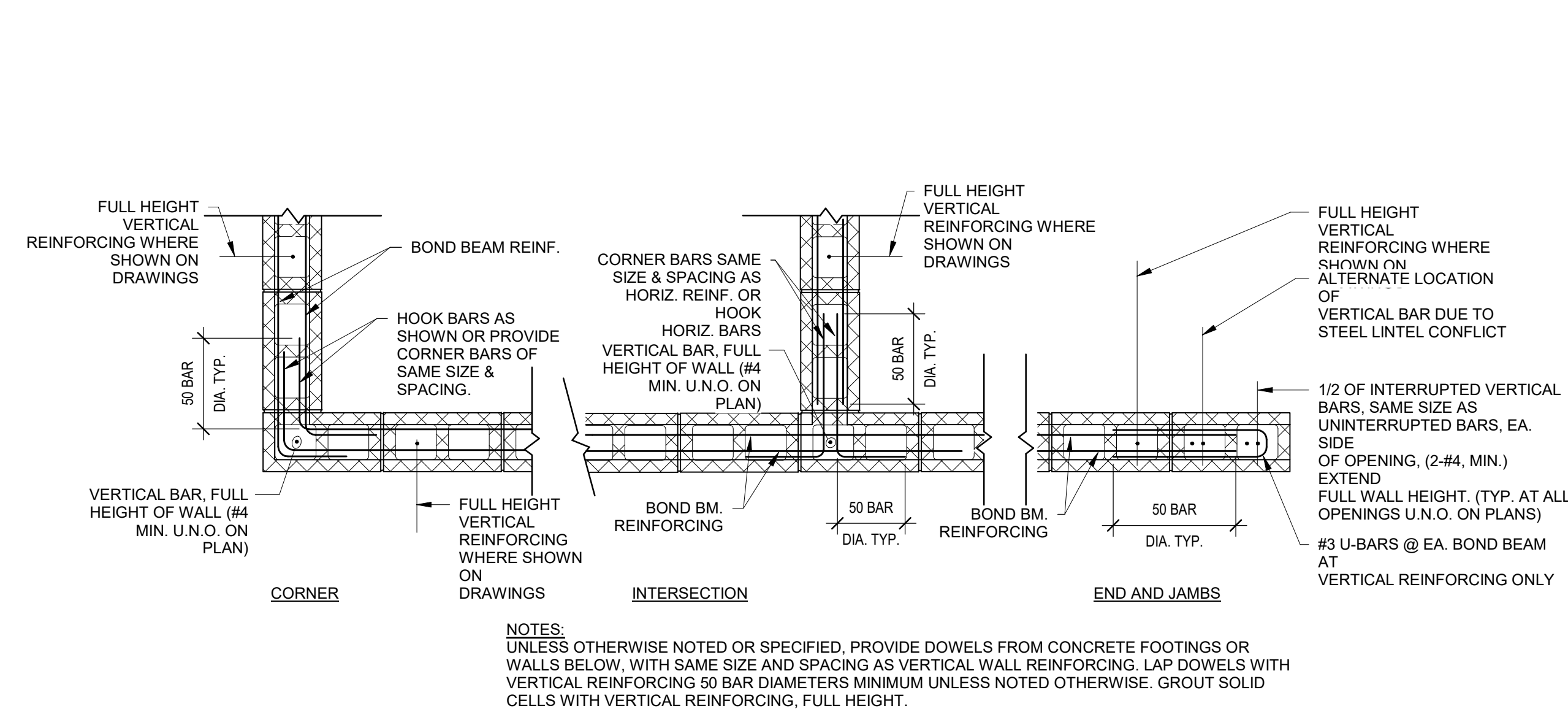
- NOTES:
1. PROVIDE MINIMUM 8" BEARING ON BRICK, SOLID OR GROUTED SOLID CONCRETE BLOCK.
2. REFER TO ARCH AND MECH DRAWINGS FOR LOCATION AND SIZE OF FOR NON-BEARING MASONRY WALL.

MISCELLANEOUS STEEL ANGLE MASONRY WALL LINTEL SCHEDULE

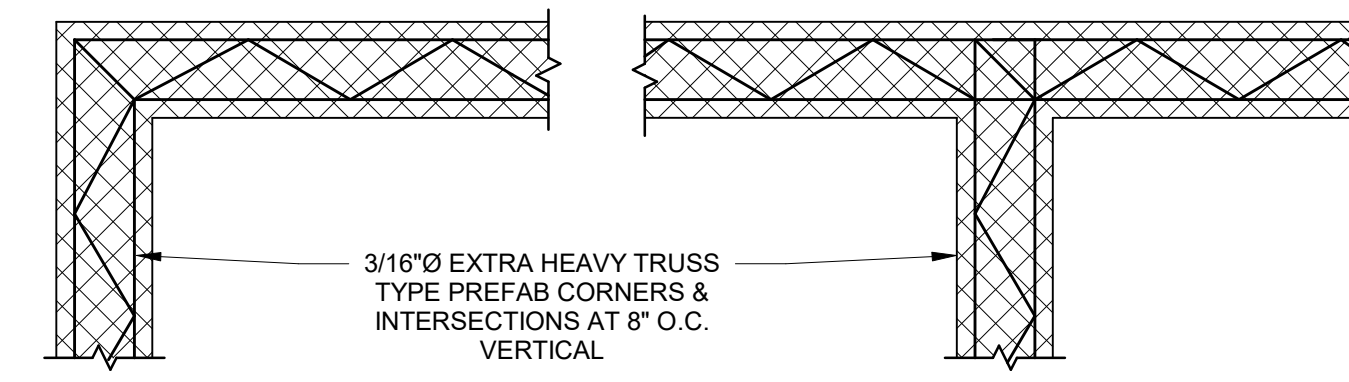
WALL THICKNESS	MASONRY OPENING UP TO 4'-0"	MASONRY OPENING 4'-1" TO 6'-0"	MASONRY OPENING 6'-1" TO 8'-0"
6" WALL	JL 3 1/2x2 1/2x5/16	JL 3 1/2x2 1/2x5/16	JL 3 1/2x2 1/2x3/8
8" WALL	JL 3 1/2x3 1/2x5/16	JL 4x3 1/2x5/16	JL 6x3 1/2x3/8

- NOTES:
1. REFER TO ARCH AND MECH DRAWINGS FOR LOCATION AND SIZE OF OPENINGS FOR NON-BEARING MASONRY WALLS.
2. PROVIDE MINIMUM 6" BEARING ON BRICK, SOLID OR GROUTED SOLID CONCRETE BLOCK, BUT NOT LESS THAN 1" OF BEARING PER FOOT OF SPAN.
3. ALL ANGLES LONG LEG VERTICAL.

⑦ TYPICAL DETAIL MISCELLANEOUS BOND OR PRECAST MASONRY LINTEL SCHEDULE
1/2" = 1'-0"

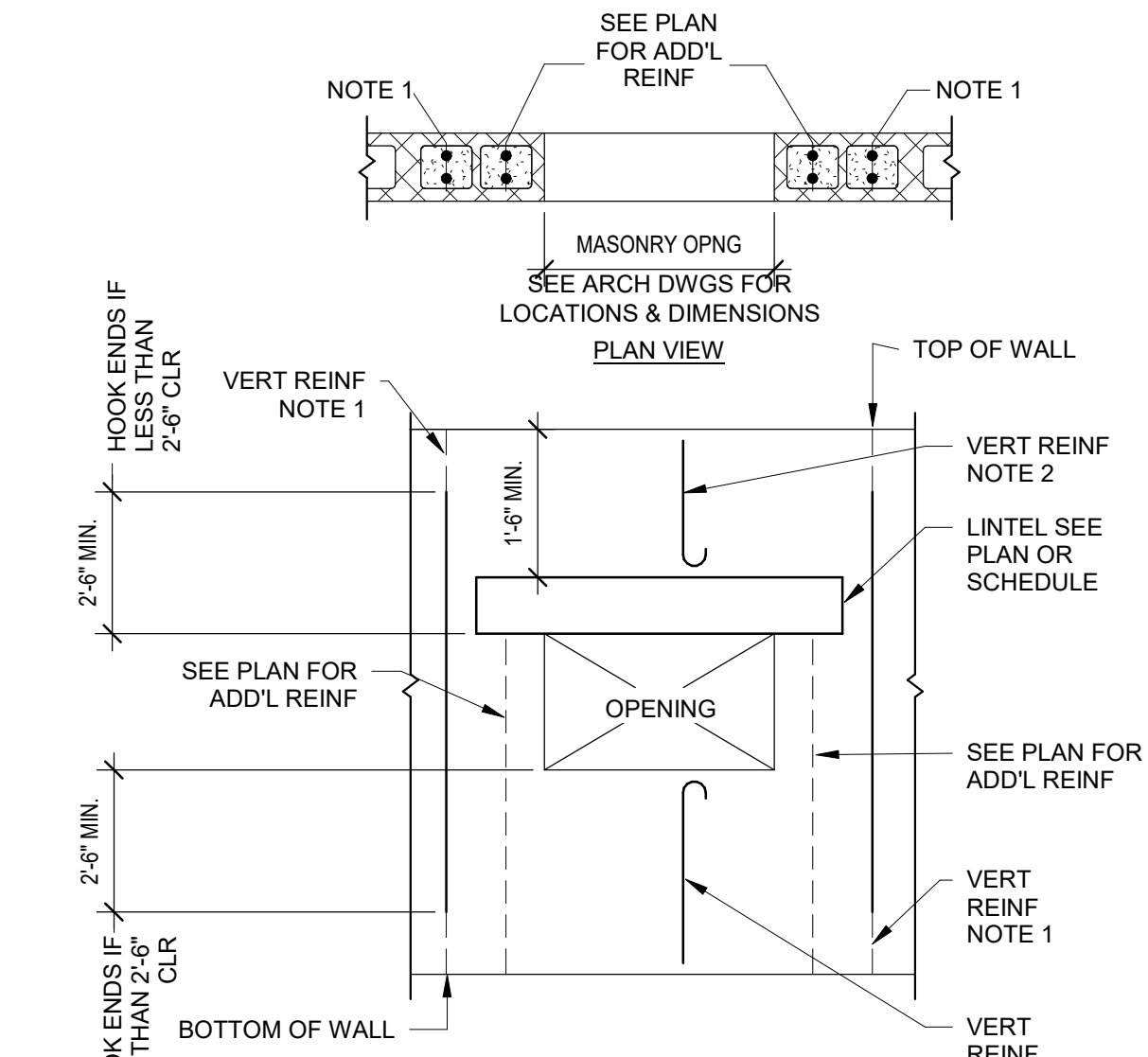


- NOTES:
UNLESS OTHERWISE NOTED OR SPECIFIED, PROVIDE DOWELS FROM CONCRETE FOOTINGS OR WALLS BELOW, WITH SAME SIZE AND SPACING AS VERTICAL WALL REINFORCING. LAP DOWELS WITH VERTICAL REINFORCING 50 BAR DIAMETERS MINIMUM UNLESS NOTED OTHERWISE. GROUT SOLID CELLS WITH VERTICAL REINFORCING, FULL HEIGHT.



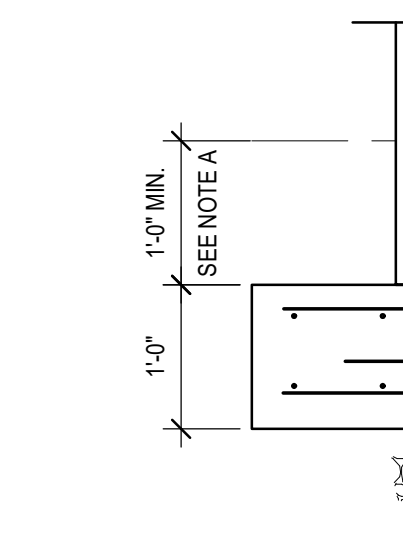
⑦ MASONRY WALL BOND BEAM REINFORCING
3/4" = 1'-0"

- NOTES:
CORNERS AND INTERSECTIONS UNLESS OTHERWISE NOTED OR SPECIFIED, AT POINTS WHERE CONCRETE MASONRY WALLS MEET OR INTERSECT, PLACE UNITS IN RUNNING BOND WITH ALTERNATE UNITS BEARING NOT LESS THAN 8 INCHES ON THE UNIT BELOW.



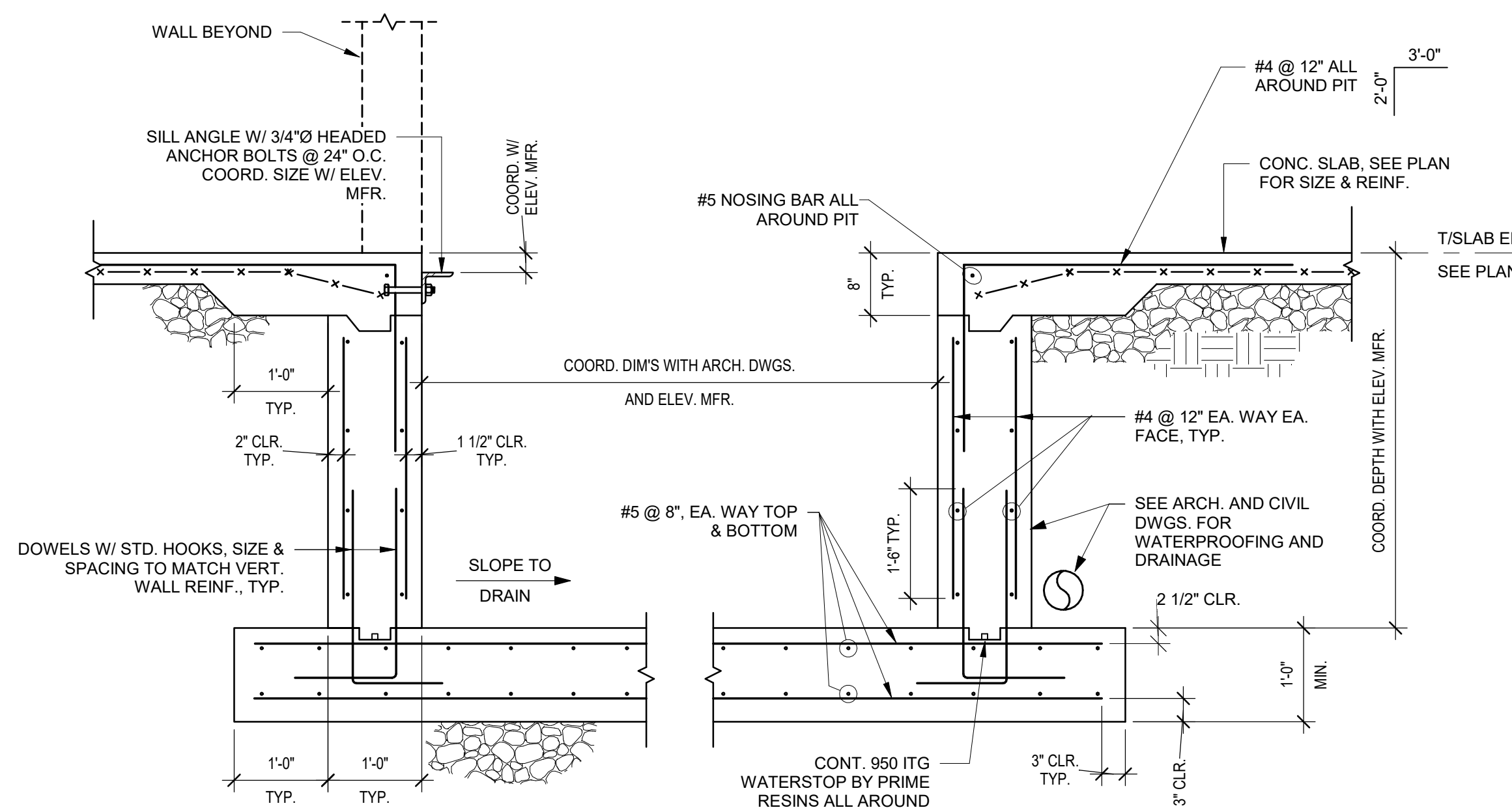
- NOTES:
1. REINFORCED WALL: ALL INTERRUPTED VERT. BARS SHALL BE COMPENSATED FOR BY ADDITIONAL BARS ON EACH SIDE OF OPENING FULL HEIGHT OF WALL. TOTAL AREA OF ADD'L BARS SHALL EQUAL AREA OF INTERRUPTED BARS. PROVIDE MIN (2) #5 EACH SIDE OF OPENING.
2. REINFORCED WALL: SIZE & SPACING OF REINFORCING INDICATED ON PLAN. PROVIDE HOOKED ENDS ON ALL DISCONTINUOUS BARS.

⑤ MASONRY WALL OPENING
1/2" = 1'-0"



- NOTES:
A. COORD. W/ ELEVATOR MFR. FOR MINIMUM SUMP PIT DIMENSIONS.
B. SEE ELEVATOR PIT DETAILS FOR ADD'L INFO NOT SHOWN.
C. SEE ARCH. & M.E.P. DWGS. FOR LOCATION OF SUMP PIT.

② ELEVATOR SUMP PIT
3/4" = 1'-0"



- NOTE:
1. REFER TO CONCRETE WALL CORNER DETAILS FOR ADD'L INFO.

① CONCRETE SINGLE ELEVATOR PIT DETAIL
3/4" = 1'-0"

EXISTING SLAB REMOVAL & REPLACEMENT NOTES
EXISTING CONCRETE SLABS ON GRADE SHALL BE SAWCUT AND REMOVED TO INSTALL NEW UTILITIES AND/OR FOUNDATIONS. REFER TO DRAWINGS OF THE VARIOUS TRADES FOR LOCATIONS. SLAB CUTTING SHALL RESULT IN A MAXIMUM SLOPE OF 1:1 FROM THE BOTTOM OF THE EXCAVATION TO THE EDGE OF THE REMAINING EXISTING SLAB. THE EXTENT OF SLAB REMOVAL MUST BE DETERMINED BY THE CONTRACTOR BASED UPON THE DEPTHS AND SIZES OF EXCAVATIONS. IN ANY LOCATION WHERE SLAB CUTTING RESULTS IN STRIPS OF EXISTING REMAINING SLABS LESS THAN 10 FEET WIDE, REMOVE THE SLAB BETWEEN THE ADJACENT CUTS. DO NOT CUT INTO OR DAMAGE ANY LOAD BEARING CONCRETE FOUNDATION.

AFTER INSTALLATION OF UTILITIES AND/OR FOUNDATIONS, BACKFILL AND COMPACT WITH APPROVED, ENGINEERED FILL OR WITH "CONTROLLED LOW STRENGTH MATERIAL (CLSM). CLSM SHALL HAVE A COMPRESSIVE STRENGTH OF A MINIMUM OF 50 120 PSI.

DRILL AND EPOXY GROUT #4 x 1'-0" L.G. REBAR AT MID-HEIGHT OF EXISTING SLAB. SPACE AT 2'-0" O.C. MAXIMUM AND EMBED 6 INCHES INTO EXISTING ADJACENT SLABS.

INSTALL NEW CONCRETE SLAB ON GRADE (THICKNESS TO MATCH EXISTING OR AS NOTED ON PLANS, 4" MIN.), REINFORCED WITH 6x6 W2.0xW2.0 WVR OVER 6" CRUSHED STONE. PROVIDE JOINTS IN SLABS PER TYPICAL DETAILS.

③ NEW EXISTING SLAB JOINT
3/4" = 1'-0"

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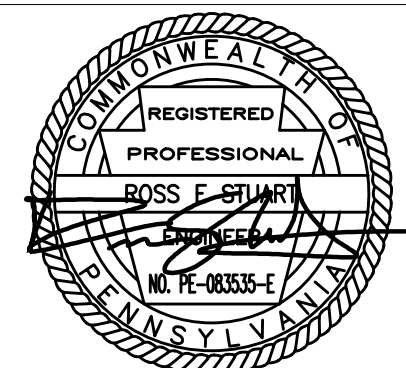
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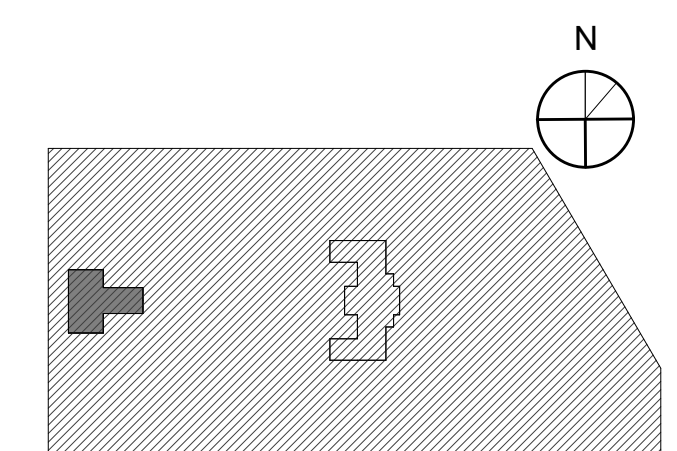


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PROJECT TITLE
KINGSESSING LIBRARY BUILDING RENOVATIONS AND SITE IMPROVEMENTS

KEY PLAN



DRAWING TITLE
REPAIR SECTIONS AND TYPICAL DETAILS

PROJECT NO. 21070 DRAWING NO.

DATE 09/07/22

SCALE As indicated

DRAWN BY WZDNB

CHECKED BY PNDAB

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



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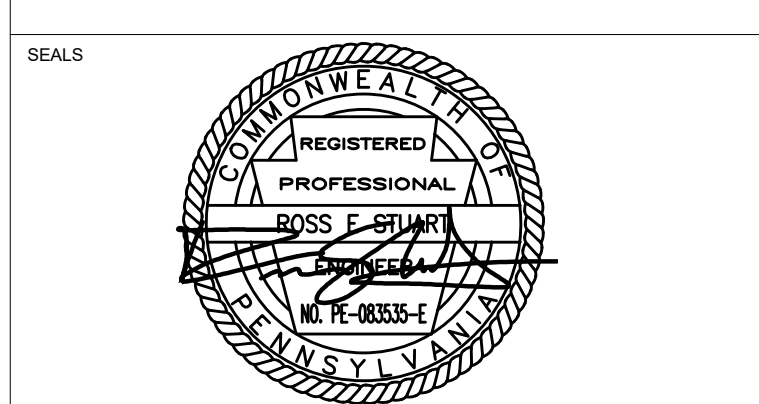
S301-L

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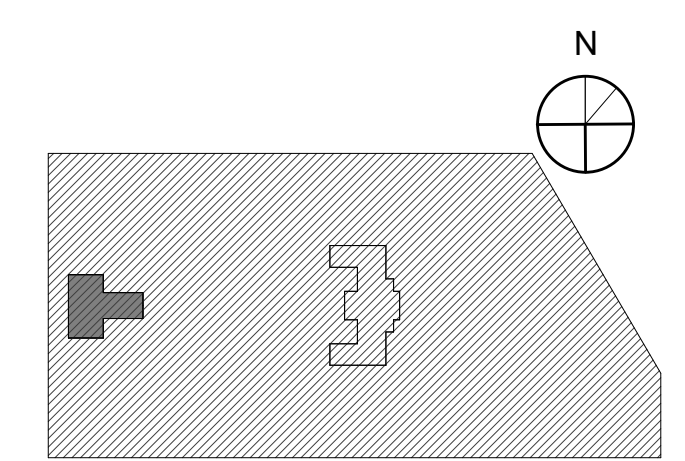


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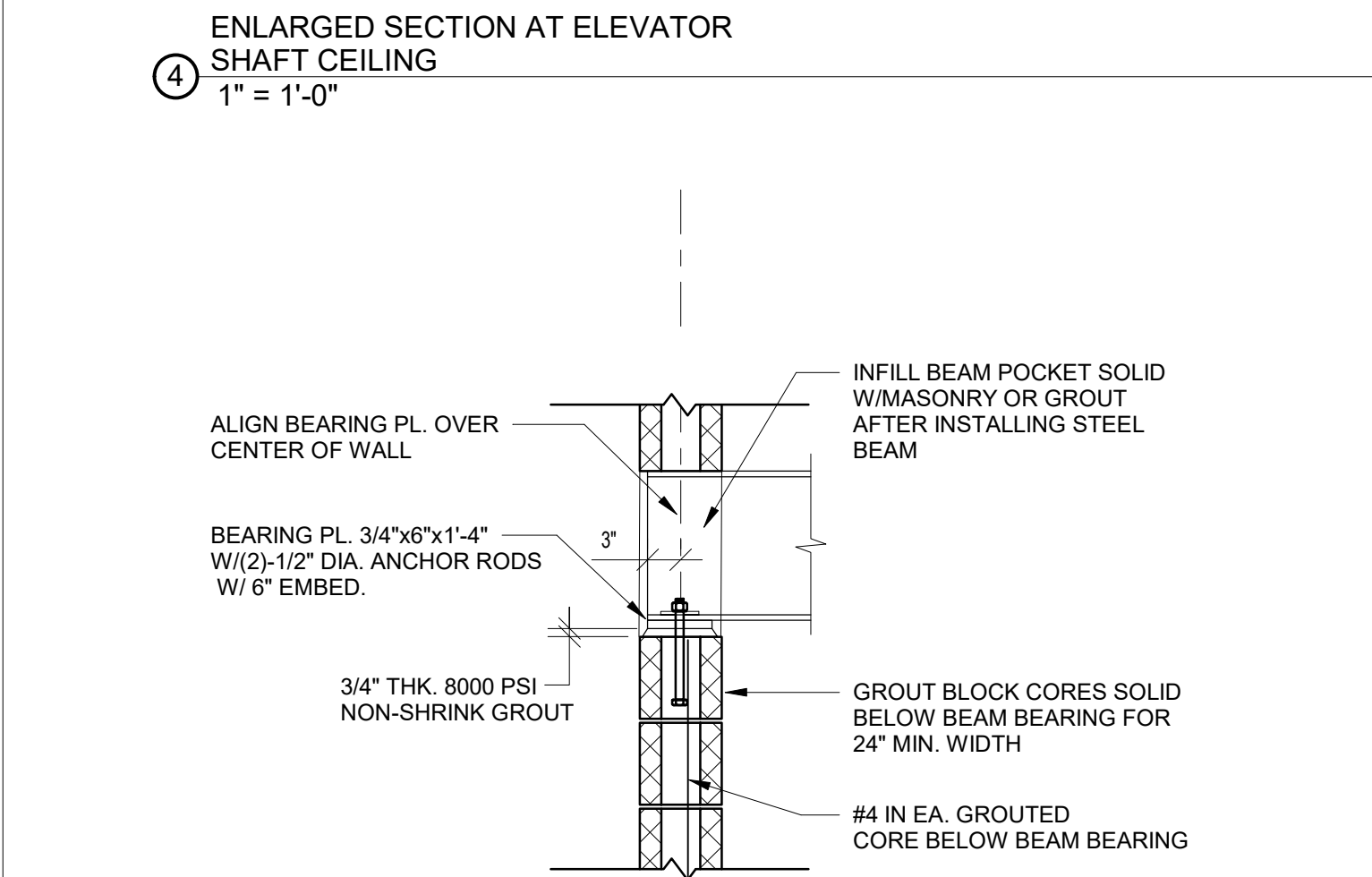
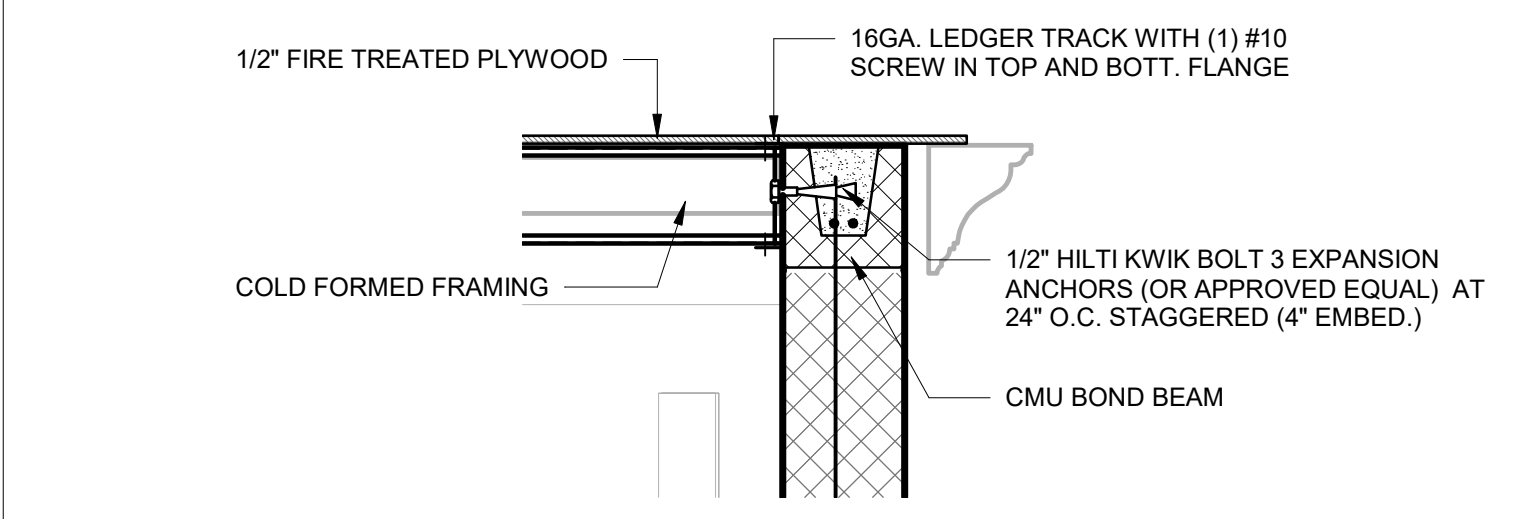
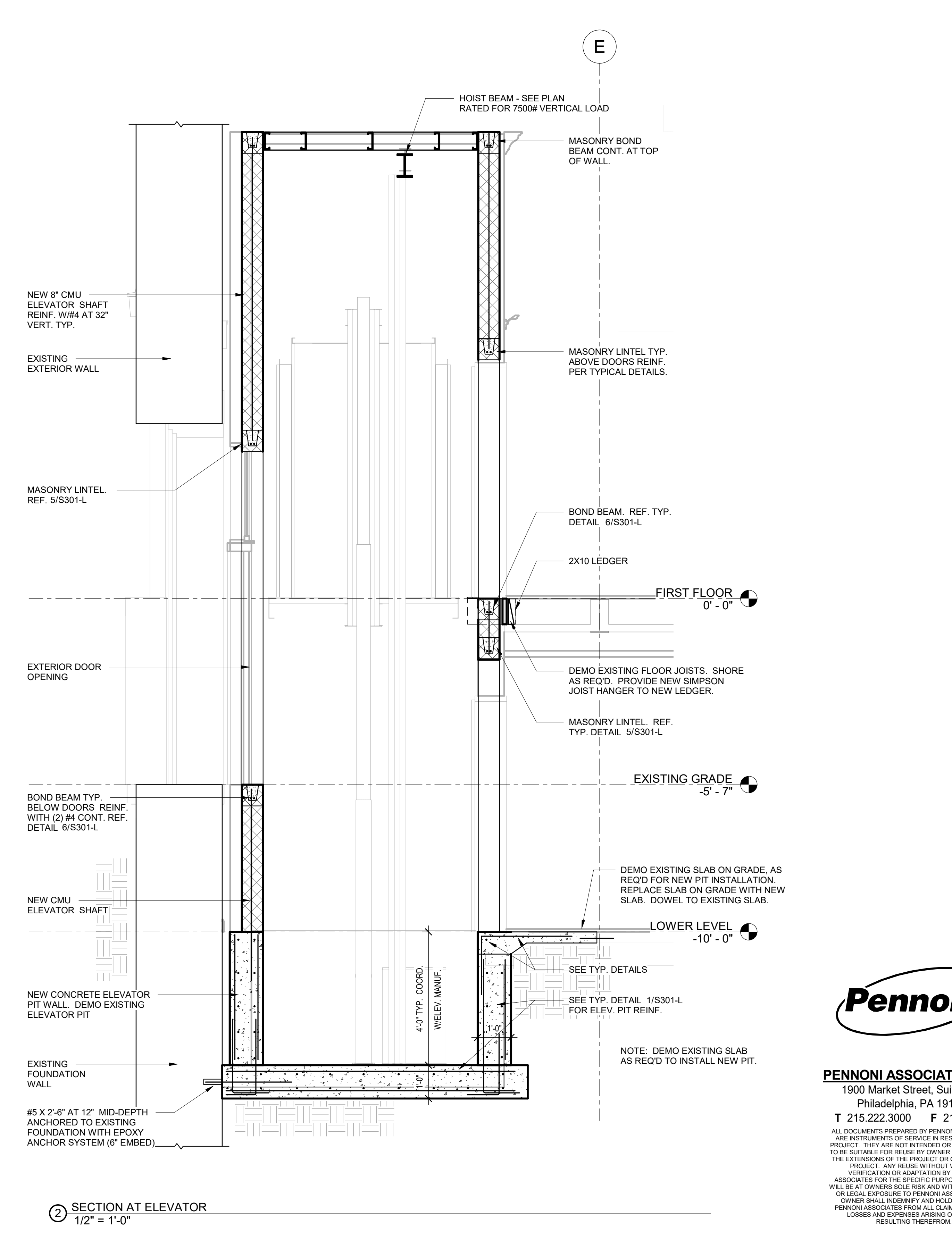
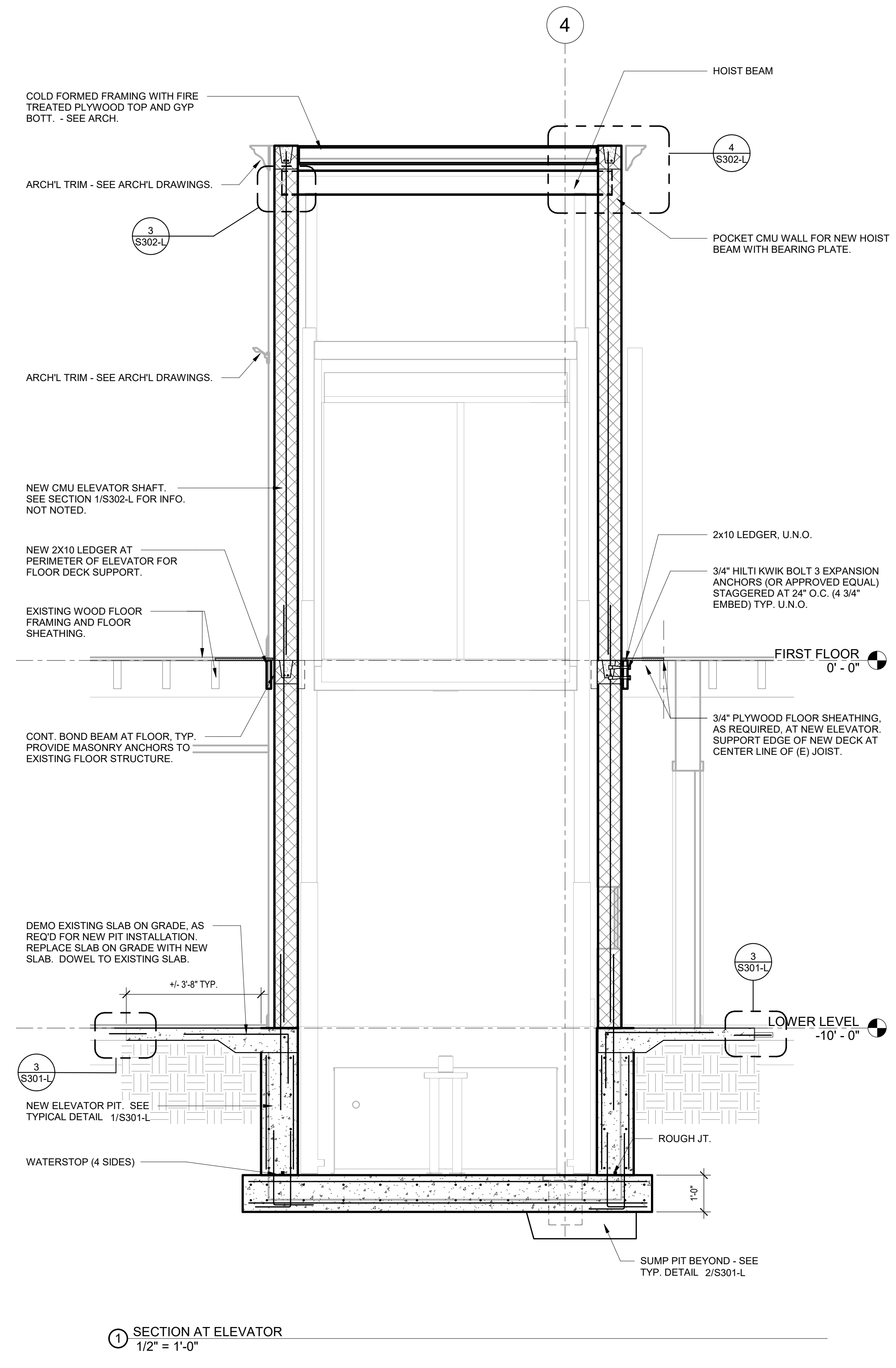
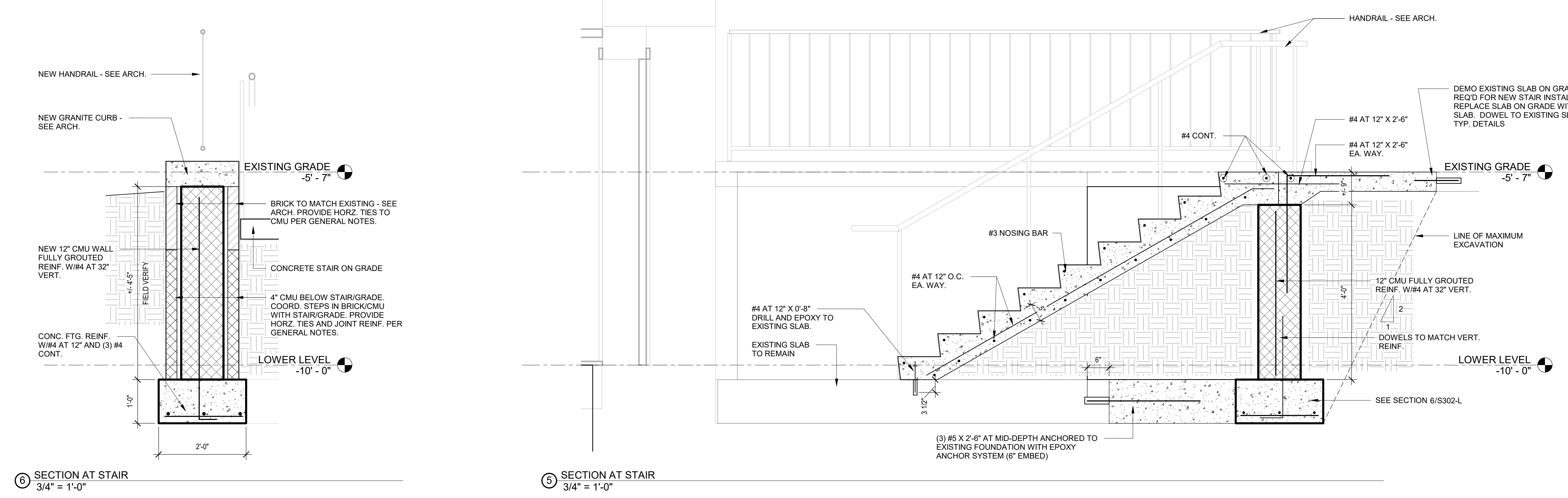
DRAWING TITLE
ELEVATOR AND STAIR SECTIONS

PROJECT NO. **21070** DRAWING NO.

DATE 09/07/22 **S302-L**

SCALE As indicated
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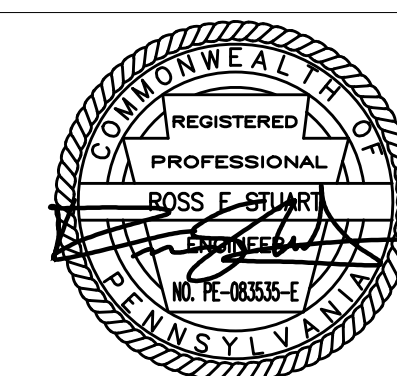
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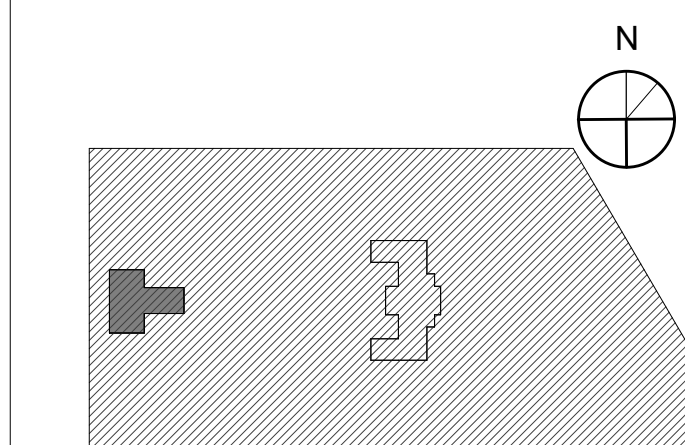


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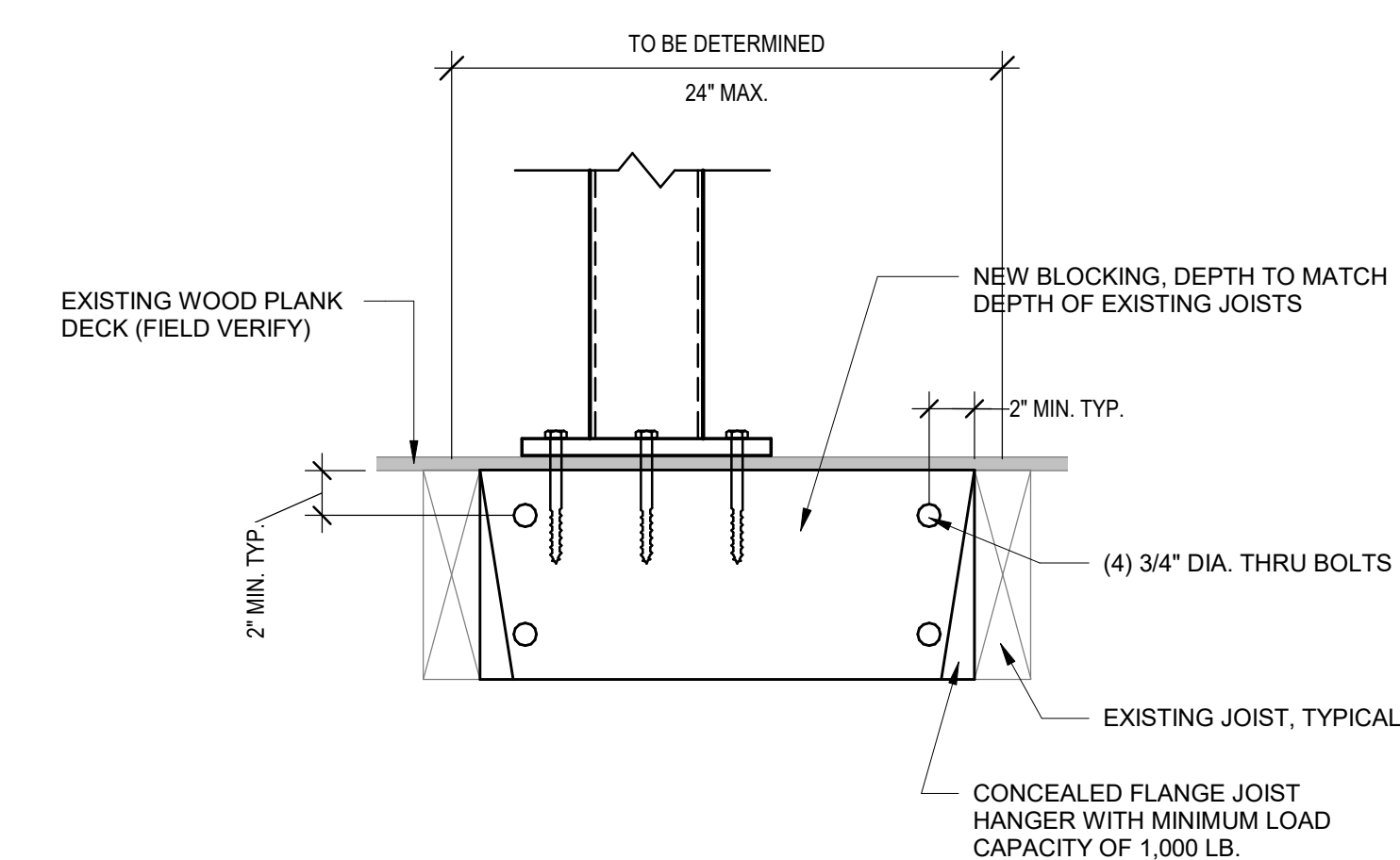
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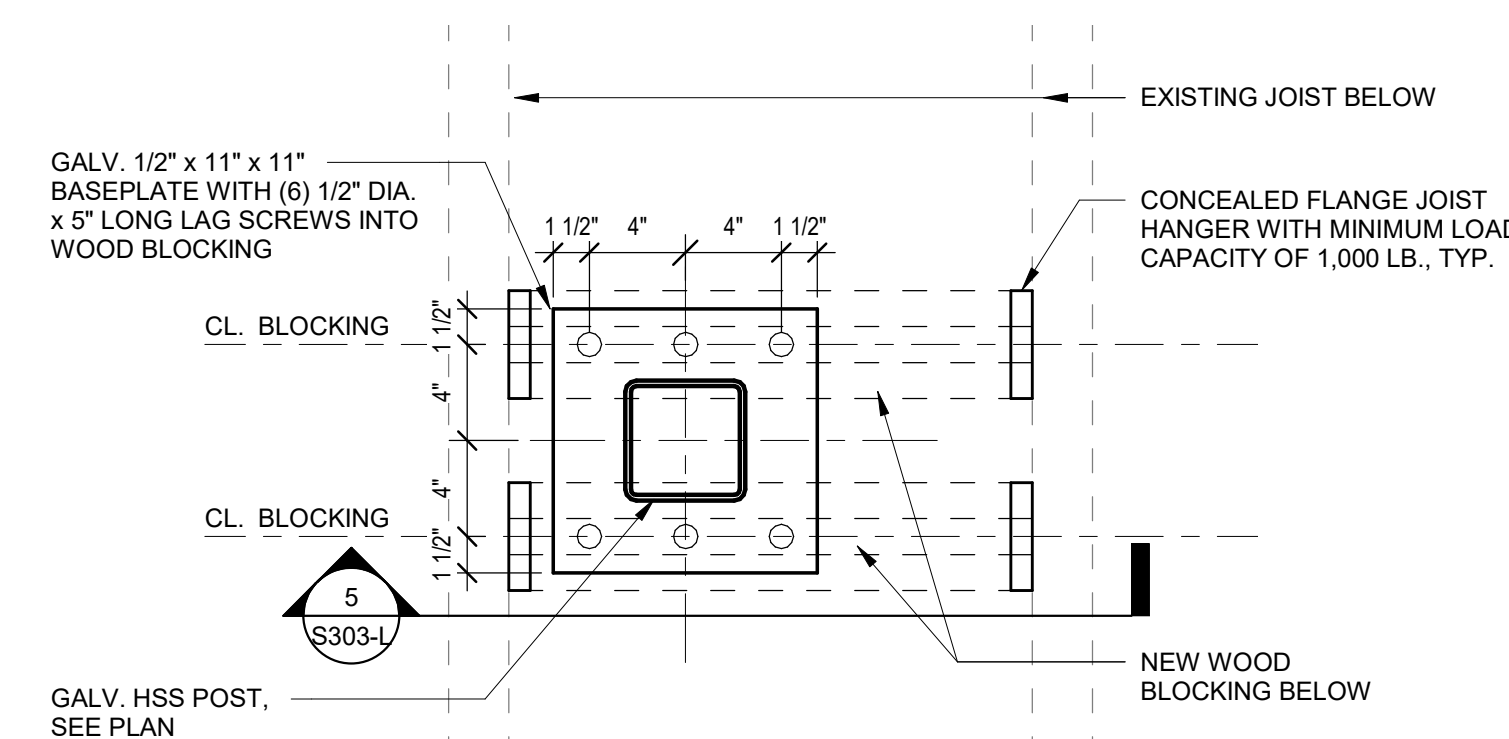


DRAWING TITLE
SECTIONS

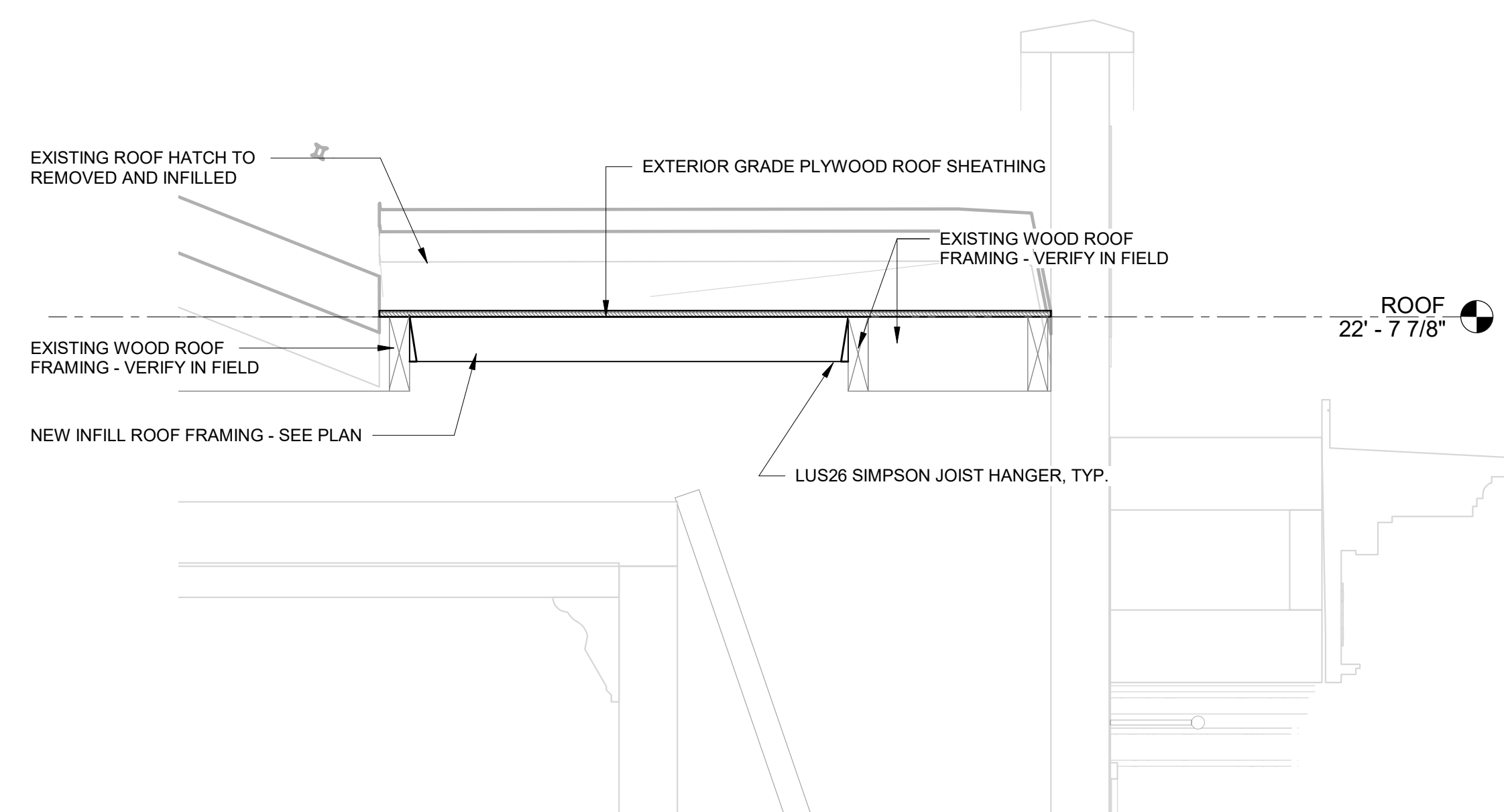
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DATE	09/07/22
SCALE	As indicated
DRAWN BY	WZD/AB
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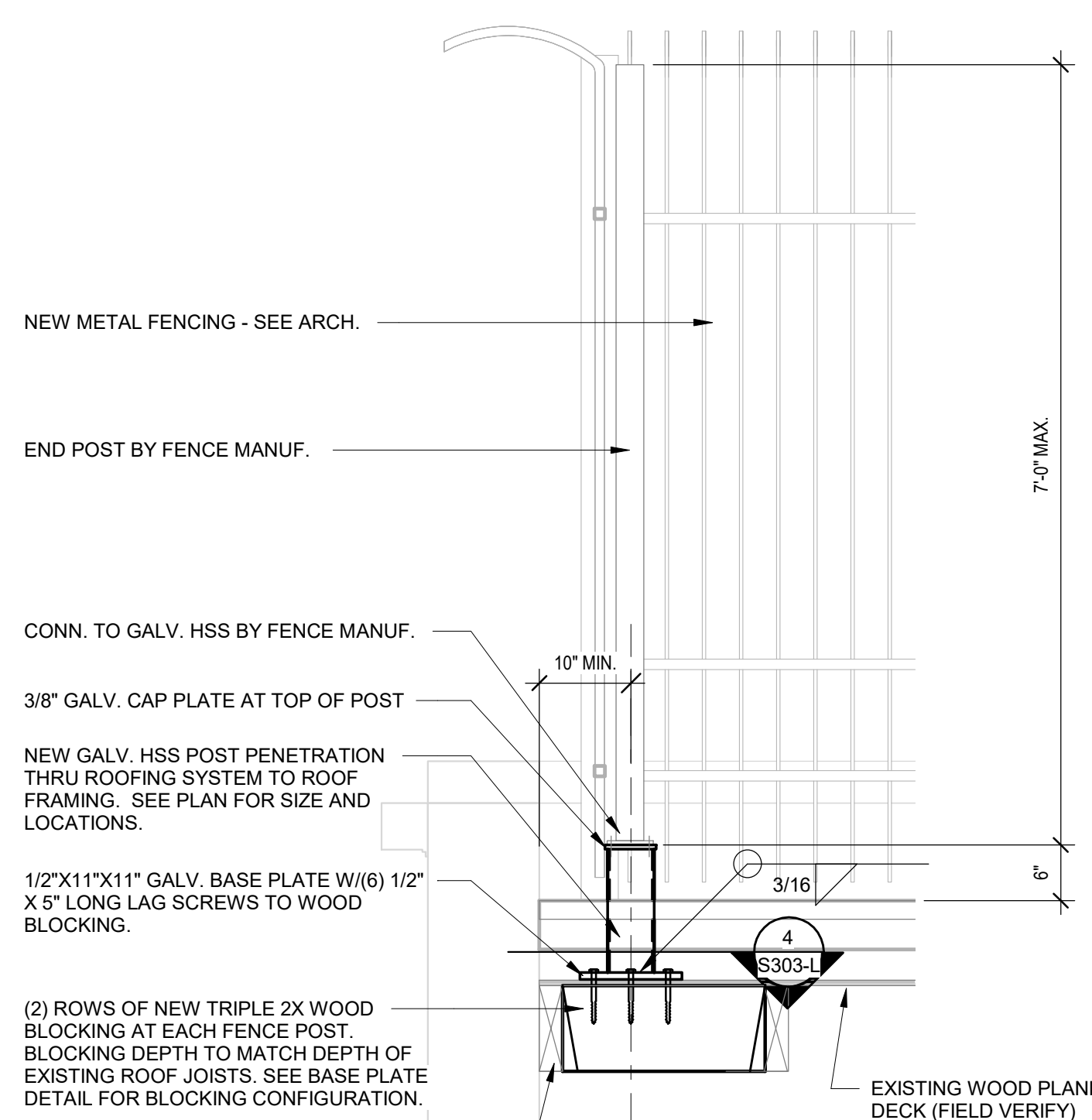
3 TYPICAL BLOCKING PLY FASTENING
DETAIL
1 1/2" = 1'-0"



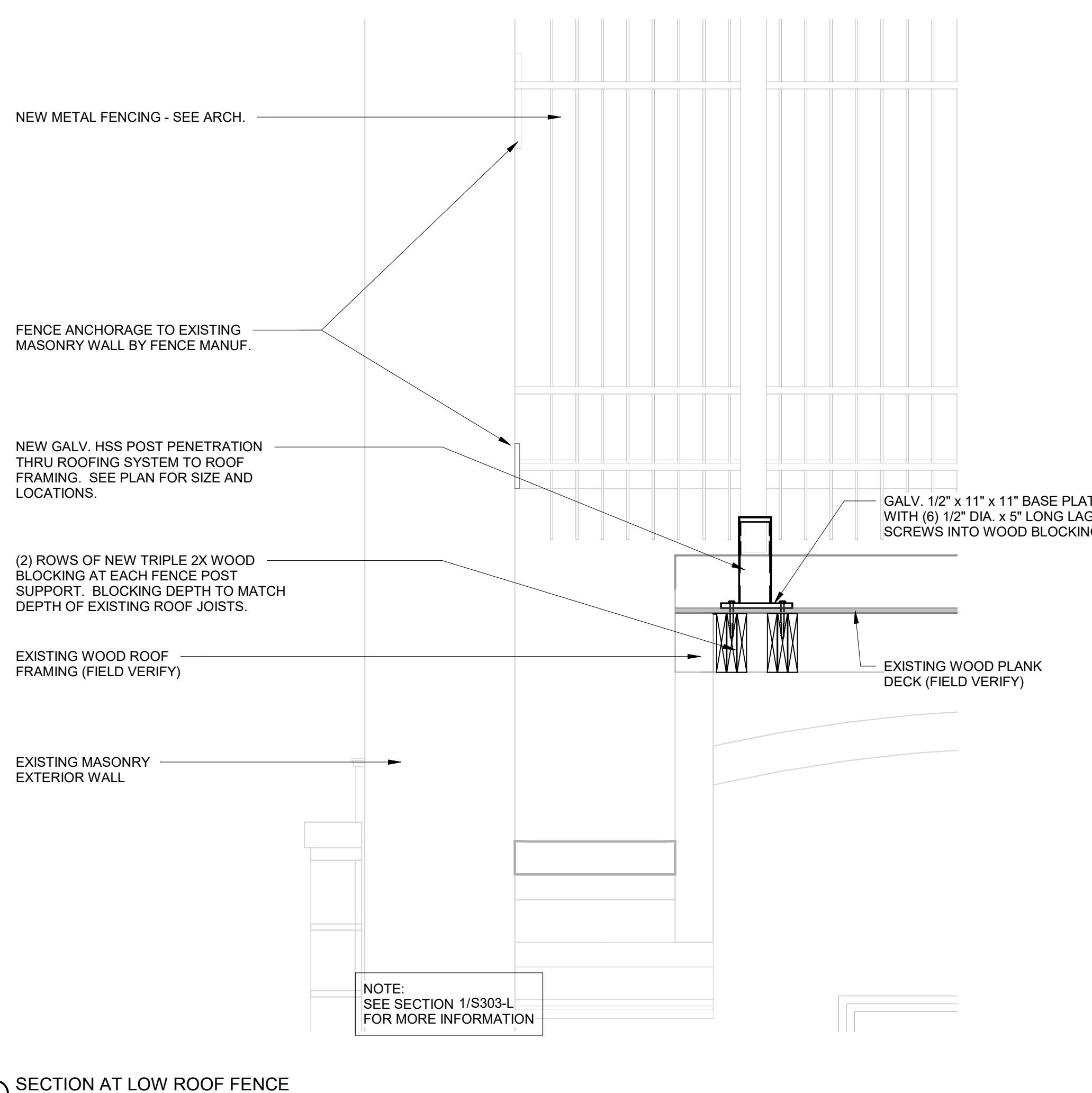
4 PLAN DETAIL AT BASE PLATE
1 1/2" = 1'-0"



3 SECTION AT ROOF INFILL
3/4" = 1'-0"



1 SECTION AT LOW ROOF FENCE
3/4" = 1'-0"



2 SECTION AT LOW ROOF FENCE
3/4" = 1'-0"



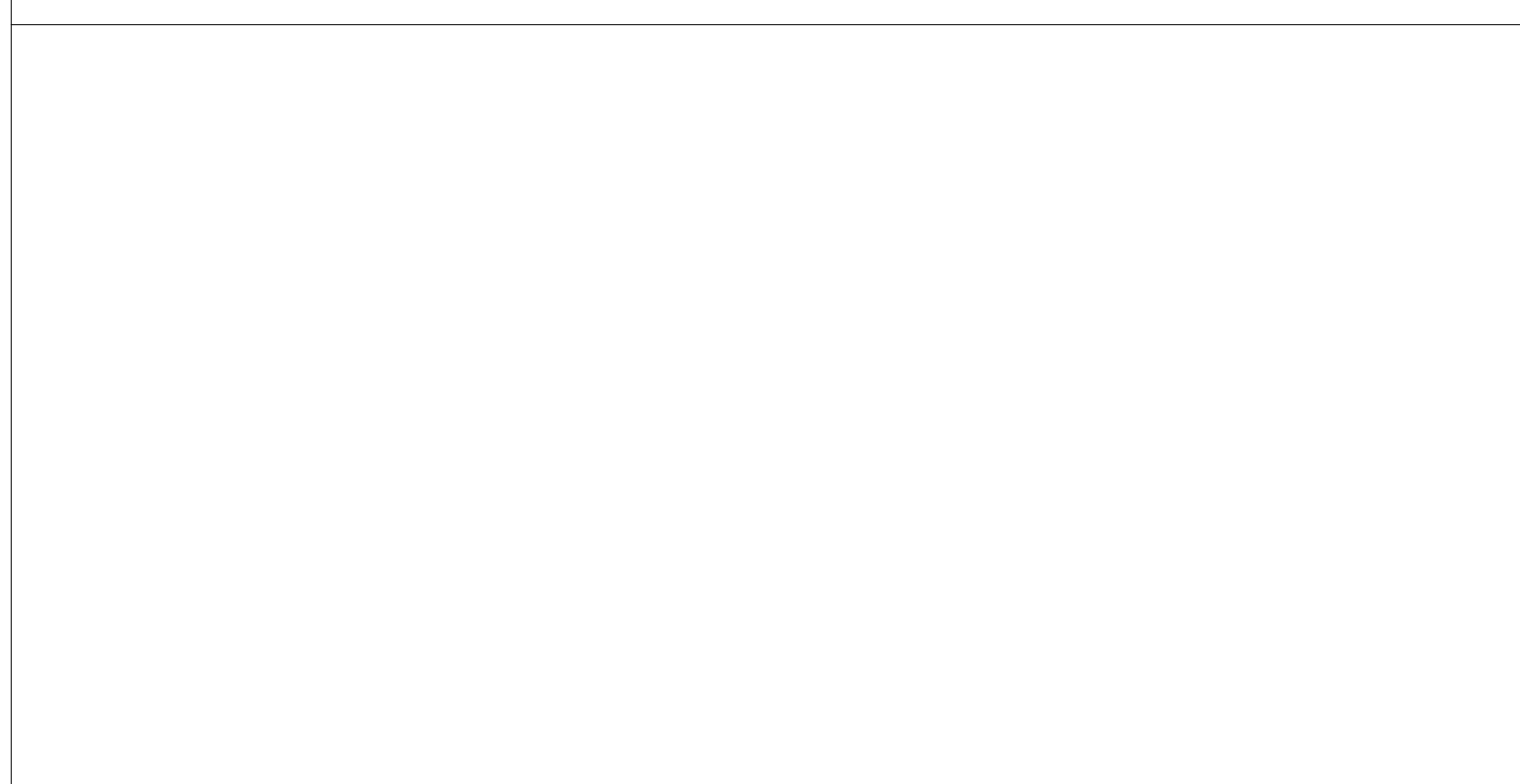
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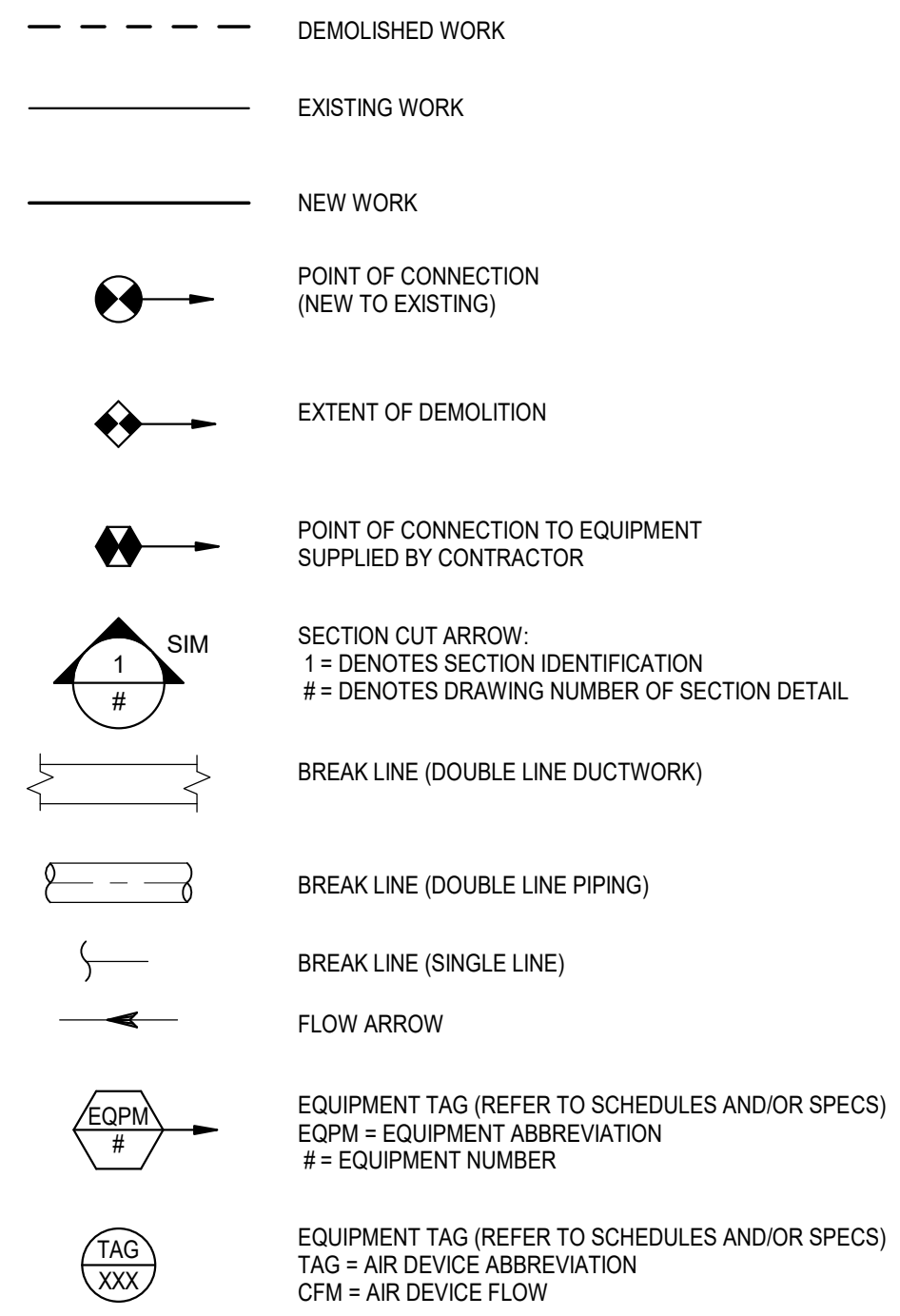
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NOTE:
SEE SECTION 1/S303-L
FOR MORE INFORMATION

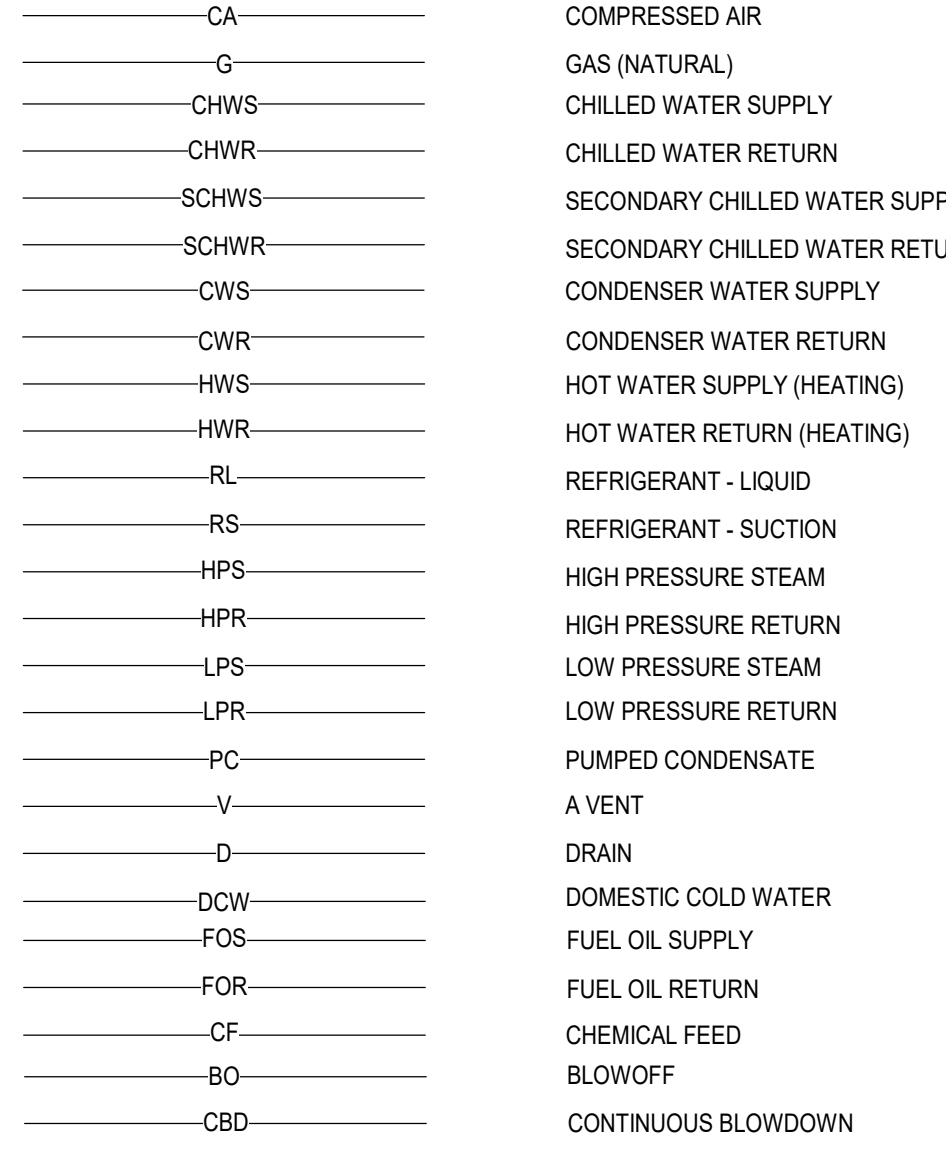
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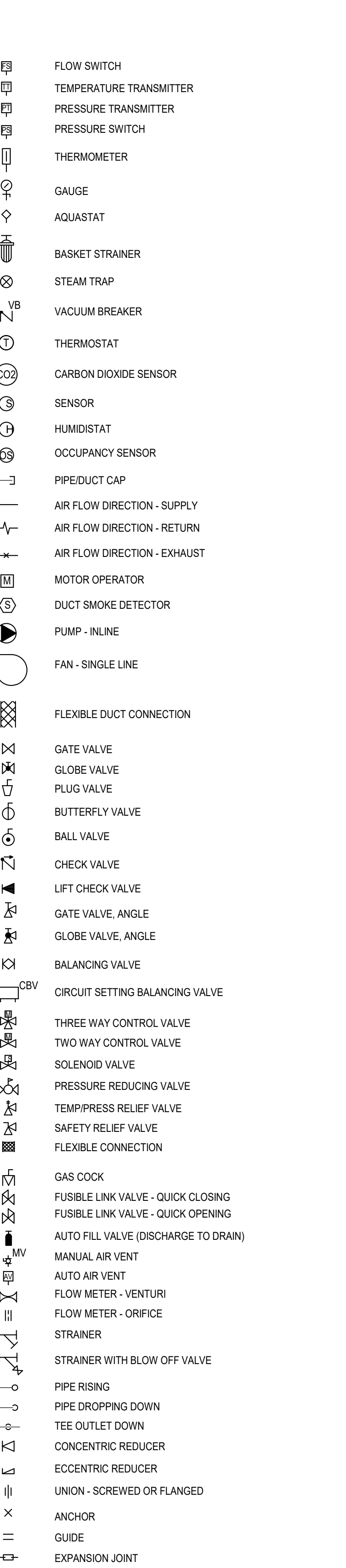
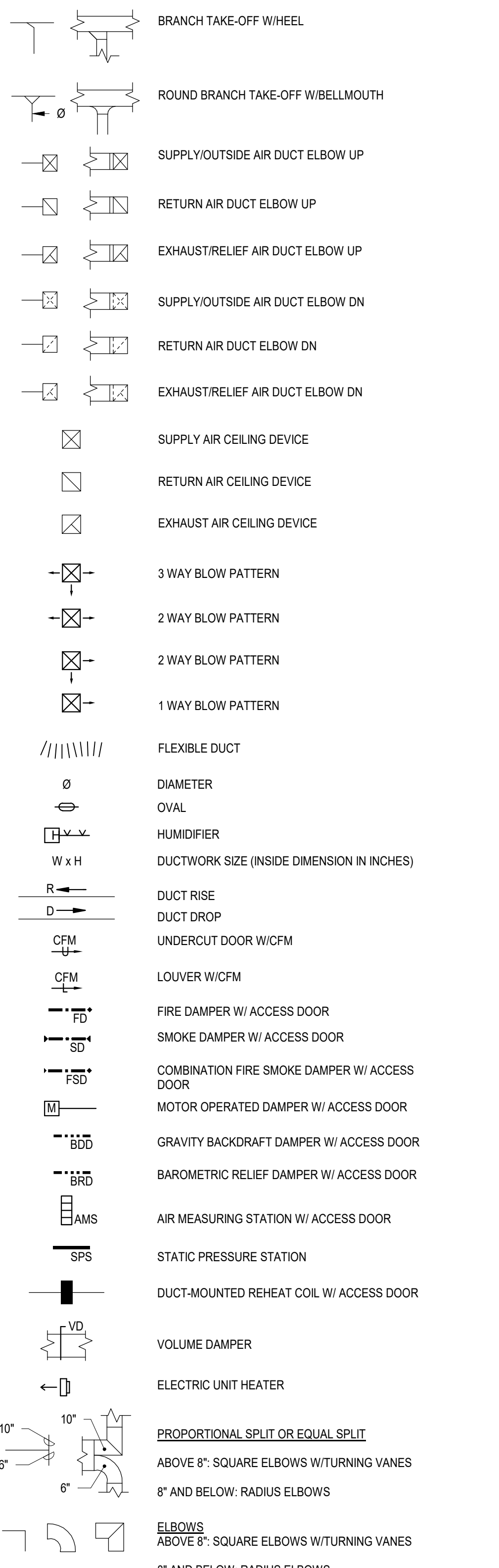
GENERAL SYMBOLS



LINE STYLES



MECHANICAL SYMBOLS



MECHANICAL ABBREVIATIONS

(D)	DEMOLISH	EM	EQUIPMENT MANUFACTURER	OA	OUTSIDE AIR
(E)	EXISTING	EMER	EMERGENCY	OAE	OUTSIDE AIR ENTHALPY
(ENT)	ENTERING	ENT	ENTERING	OAH	OUTSIDE AIR HUMIDITY
(M)	PROVIDED BY MANUFACTURER	ER	EXHAUST REGISTER	OAI	OUTSIDE AIR INTAKE
(N)	NEW	ERAD	ELECTRIC RADIATION	OAT	OUTSIDE AIR TEMPERATURE
(R)	RELOCATE	ERC	EXHAUST ENERGY RECOVERY COIL	OSD	OPPOSED BLADE DAMPER
AC	AIR CONDITIONING UNIT	ERU	ENERGY RECOVERY UNIT	OC	ON CENTER
ACC	AIR COOLED CONDENSER	ESP	EXTERNAL STATIC PRESSURE	OED	OPEN ENDED DUCT
ACCU	AIR COOLED CONDENSING UNIT	ET	EXPANSION TANK	CEM	ORIGINAL EQUIPMENT MANUFACTURER
ACFM	ACTUAL CUBIC FEET PER MINUTE	EV	EVAPORATIVE COOLER	OPER	OPERATING
AD	ACCESS DOOR	EWB	ENTERING WET BULB TEMPERATURE	OPNG	OPENING
ADJ	ADJUSTABLE	EWH	ELECTRIC WATER HEATER	P	PUMP
AF	AIRFOIL	EWT	ENTERING WATER TEMPERATURE	PBD	PARALLEL BLADE DAMPER
AFF	ABOVE FINISHED FLOOR	EXH	EXHAUST	PC	PUMPED CONDENSATE
AHU	AIR HANDLING UNIT	EXST	EXISTING	PD	PRESSURE DROP
AI	ANALOG INPUT	EXT	EXTERNAL	PFHX	PLATE & FRAME HEAT EXCHANGER
AL	ACOUSTICAL LINING	F	FILTER	PHC	PREHEAT COIL
AMB	AMBIENT	F&T	FLOAT AND THERMOSTATIC STEAM TRAP	PLN	PLENUM
AMS	AIR FLOW MEASURING STATION	FA	FACE AREA	POS	POSITION
AO	ANALOG OUTPUT	FB	FROM BELOW	PRESS	PRESSURE
AP	ACCESS PANEL	FAS	FIRE ALARM SYSTEM	PRV	PRESSURE REDUCING VALVE
APD	AIR PRESSURE DROP	FC	FORWARD CURVED	PSI	POUNDS PER SQUARE INCH
ARCH	ARCHITECTURAL	FD	FIRE DAMPER OR FLOOR DRAIN	PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
AS	AIR SEPARATOR	FL	FINAL	PSIG	POUNDS PER SQUARE INCH - GAUGE
ASC	APPLICATION SPECIFIC CONTROLLER	FLA	FULL LOAD AMPS	QUAN or QTY	QUANTITY
ATC	AUTOMATIC TEMPERATURE CONTROL	FLX	FLEXIBLE	R	RISE
AWG	AVERAGE WATER TEMPERATURE	FLR	FLOOR	RA	RETURN OR RELIEF AIR
B	BOILER	FLTR	FILTER	RAE	RETURN AIR ENTHALPY
BAS	BUILDING AUTOMATION SYSTEM	FM	FLOW METERING DEVICE	RAH	RETURN AIR HUMIDITY
BDD	BACKDRAFT DAMPER	FO	FUEL OIL	RAT	RETURN AIR TEMPERATURE
BDS	BLOWDOWN SEPARATOR	FOB	FUEL OIL BOTTOM	RCP	RADIANT CEILING PANEL
BFU	BOILER FEED UNIT	FOF	FUEL OIL FILL	REQ	REQUIRED
BHP	BRAKE HORSEPOWER OR BOILER HORSEPOWER	FOO	FUEL OIL OVERFLOW	RET	RETURN
BI	BIDIRECTIONAL INCLINED OR BINARY INPUT	FOP	FUEL OIL PUMP	REV	REVISION
BLD	BUILDING	FOT	FUEL OIL SUPPLY	RF	RETURN FAN
BO	BINARY OUTPUT	FPM	FEET PER MINUTE	RFOP	RETURN GRILLE
BOD	BOTTOM OF DUCT OR BASIS OF DESIGN	FPS	FEET PER SECOND	RH	RELIEF HOOD OR RELATIVE HUMIDITY
BOP	BOTTOM OF PIPE	FT	FINNED TUBE RADIATION	RHC	REHEAT COIL
BOT	BOTTOM	FTR	FINNED TUBE RADIATION	RHW	ROTARY HEAT WHEEL
BRD	BAROMETRIC RELIEF DAMPER	FUT	FUTURE	RLA	RUN LOAD AMPS
BTU	BRITISH THERMAL UNIT	FTU	FUTURE	RM	ROOM
BTU/H	BTU PER HOUR	GC	GALLONS CONNECTION	RR	RETURN REGISTER
C	CONNECTOR	GPH	GALLONS PER HOUR	RTU	ROOFTOP UNIT
CAP	CAPACITY	GPM	GALLONS PER MINUTE	RV	RELIEF VALVE
CAV	CONSTANT AIR VOLUME	SB	SECOND	SA	SUPPLY AIR
CB	CONCRETE BASE	SC	SELF CONTAINED UNIT	SB	STRUCTURAL BASE
CC	COOLING COIL	SD	SMOKE DAMPER OR DETECTOR	SCU	SELF CONTAINED UNIT
CCD	CAPPED CURB OPENING	SE	SECOND	SD	SMOKE DAMPER OR DETECTOR
CD	CEILING DIFFUSER	SEER	EFFICIENCY RATING	SE	SECOND
CFH	CUBIC FEET PER HOUR	SENS	SENSIBLE	SEER	EFFICIENCY RATING
CFM	CUBIC FEET PER MINUTE	SF	SUPPLY FAN	SENS	SENSIBLE
CH	CHILLER	SG	SUPPLY GRILLE	SI	SPRING HANGER
CI	COOLING	SH	SCREENED OPENING	SP	STATIC PRESSURE IN WG
CLG	CEILING COMPRESSOR	SPD	STEAM PRESSURE DROP	SR	SUPPLY REGISTER
CMR	COMPRESSOR	SRF	SUPPLY REGISTER	SRV	SUPPLY ENERGY RECOVERY COIL
CO	CLEAN OUT	ST	STEAM	ST	SAFETY RELIEF VALVE
COL	CONCENTRATION OR CONCRETE	STB	STANDBY	STF	SIDE-STREAM FILTER
CONC	CONCENTRATION OR CONCRETE	STM	STEAM	ST	SOUND ATTENUATOR
COND	CONDENSATE (STEAM COOLING COIL)	SUP	SUPPLY	STBY	STANDBY
CONN	CONNECTION	SUT	SURGE TANK	STN	STEAM
CONT	CONTINUATION	TA	TRANSFER AIR DUCT	SUP	SUPPLY
CP	CONDENSATE PUMP	TEC	TERMINAL EQUIPMENT CONTROLLER	SUR	SURGE TANK
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT	TF	TRANSFER FAN	TAD	TRANSFER AIR DUCT
CT	COOLING TOWER	TG	TRANSFER GRILLE	TEC	TERMINAL EQUIPMENT CONTROLLER
CU	CONDENSING UNIT	TH	THROUGH	TD	TOP OF DUCT
CUH	CABINET UNIT HEATER	TI	TIGHT TO STRUCTURE	TO	TOP OF PIPE
CV	COEFFICIENT OF CAPACITY	TP	TRANSFER PUMP	TP	TIGHT TO STRUCTURE
D	DRAIN	TSP	TOTAL STATIC PRESSURE	TYP	TYPICAL
DB	DRY BULB	TS	TIGHT TO STRUCTURE	UH	UNIT HEATER
DC	DRY COOLER	TSB	TIGHT TO STRUCTURE	UNO	UNLESS NOTED OTHERWISE
DD	DIRECT DIGITAL CONTROL	TV	TRANSFER VALVE	VAV	VARIABLE AIR VOLUME
DEFL	DEFLECTION	UW	UNITS	VDD	VOLUME DAMPER
DET	DETAIL	V	VELOCITY	VFD	VARIABLE FREQUENCY DRIVE
DI	DIAMETER	VIB	VIBRATION	VIB	VIBRATION
DISC	DISCONNECT	VIV	VARIABLE INLET VALVES	VTR	VENT THROUGH ROOF
DISCH	DISCHARGE	VV	VARIABLE VOLUME AND TEMPERATURE	W	WITH
DI	DIGITAL INPUT	W	WITH	W/O	WITHOUT
DN	DOWN	W	WITH	WB	WET BULB
DO	DIGITAL OUTPUT	W	WITH	WCU	WATER COOLED CONDENSING UNIT
DR	DRAIN	W	WITH	WG	WATER GAUGE
DS	DISCONNECT SWITCH	W	WITH	WHP	WATER SOURCE HEAT PUMP
DWG	DRAWINGS	W	WITH	WMS	WATER MESH SCREEN
EA	EXHAUST AIR OR EACH	W	WITH	WPD	WATER PRESSURE DROP
EAT	ENTERING AIR TEMPERATURE	W	WITH		
EC	ELECTRICAL CONTRACTOR	W	WITH		
EDH	ELECTRIC DUCT HEATER	W	WITH		
EDH	ELECTRIC DUCT HEATER	W	WITH		
EF	ELECTRIC FEED	W	WITH		
EG	EXHAUST GRILLE	W	WITH		
EJ	EXPANSION JOINT	W	WITH		
ELEC	ELECTRIC	W	WITH		
ELEV	ELEVATION	W	WITH		

GENERAL COMPLIANCE - PHL

DESIGN AND PERFORMANCE OF COMPONENTS AND METHODS SPECIFIED HEREIN SHALL COMPLY WITH THE LATEST ADOPTED VERSIONS OF THE STATE CODES, STANDARDS, AND MANUFACTURER'S RECOMMENDATIONS OF THE ENTITIES LISTED BELOW BUT NOT LIMITED TO:

IBC	2018 INTERNATIONAL BUILDING CODE
IFGC	2018 INTERNATIONAL FUEL GAS CODE
IMC	2018 INTERNATIONAL MECHANICAL CODE
IECC	2018 INTERNATIONAL ENERGY CONSERVATION CODE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
UL	UNDERWRITERS LABORATORIES, INC.
FM	FACTORY MUTUAL
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AMCA	AIR MOVING AND CONDITIONING ASSOCIATION
ARI	AMERICAN REFRIGERATION INSTITUTE
MSS	MANUFACTURER'S STANDARDIZATION SOCIETY OF THE VALVE AND FITTING INDUSTRY
PA CODE	COMMONWEALTH OF PENNSYLVANIA CODE

MECHANICAL DRAWING LIST	
SHEET NUMBER	DRAWING TITLE
MECHANICAL	
M-001-L	MECHANICAL INDEX SHEET
M-002-L	MECHANICAL NOTES
M-100-L	MECHANICAL DEMOLITION - BASEMENT
M-101-L	MECHANICAL DEMOLITION - FIRST FLOOR
M-102-L	MECHANICAL DEMOLITION - ROOF
M-200-L	MECHANICAL PROPOSED - BASEMENT
M-201-L	MECHANICAL PROPOSED - FIRST FLOOR
M-202-L	MECHANICAL PROPOSED - ROOF
M-300-L	MECHANICAL PARTIAL PLANS & SECTIONS
M-400-L	MECHANICAL CONTROL SEQUENCES
M-500-L	MECHANICAL SCHEDULES
M-501-L	MECHANICAL SCHEDULES
M-600-L	MECHANICAL DETAILS
M-601-L	MECHANICAL DETAILS
M-602-L	MECHANICAL DETAILS

REVISIONS

DATE	ISSUE	DESCRIPTION
09/07/22	0	ISSUE FOR BID



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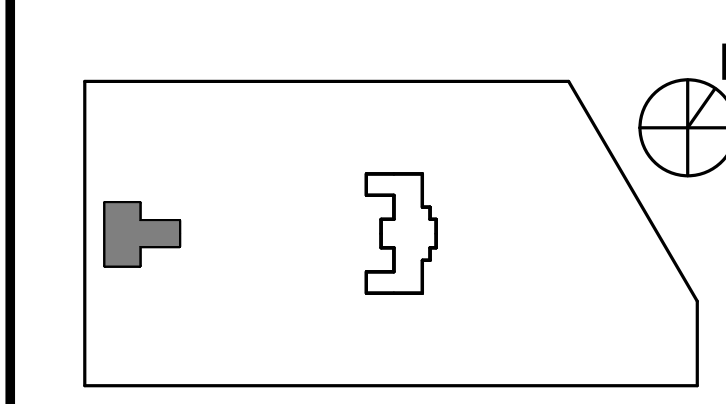
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PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS

KEY PLAN



DRAWING TITLE
MECHANICAL INDEX SHEET

PROJECT NO. KMLX21003 DRAWING NO.

DATE 09/07/2022 **M-001-L**

SCALE AS NOTED

DRAWN BY: ELP

CHECKED BY: RHC

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

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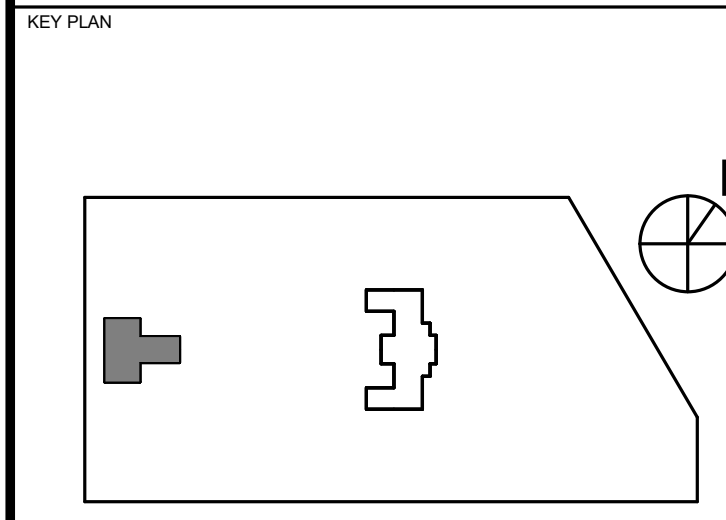
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DRAWING TITLE
MECHANICAL PROPOSED - BASEMENT

PROJECT NO. KMLX21003	DRAWING NO. M-200-L
DATE 09/07/2022	SCALE AS NOTED
DRAWN BY: ELP	CHECKED BY: RHG

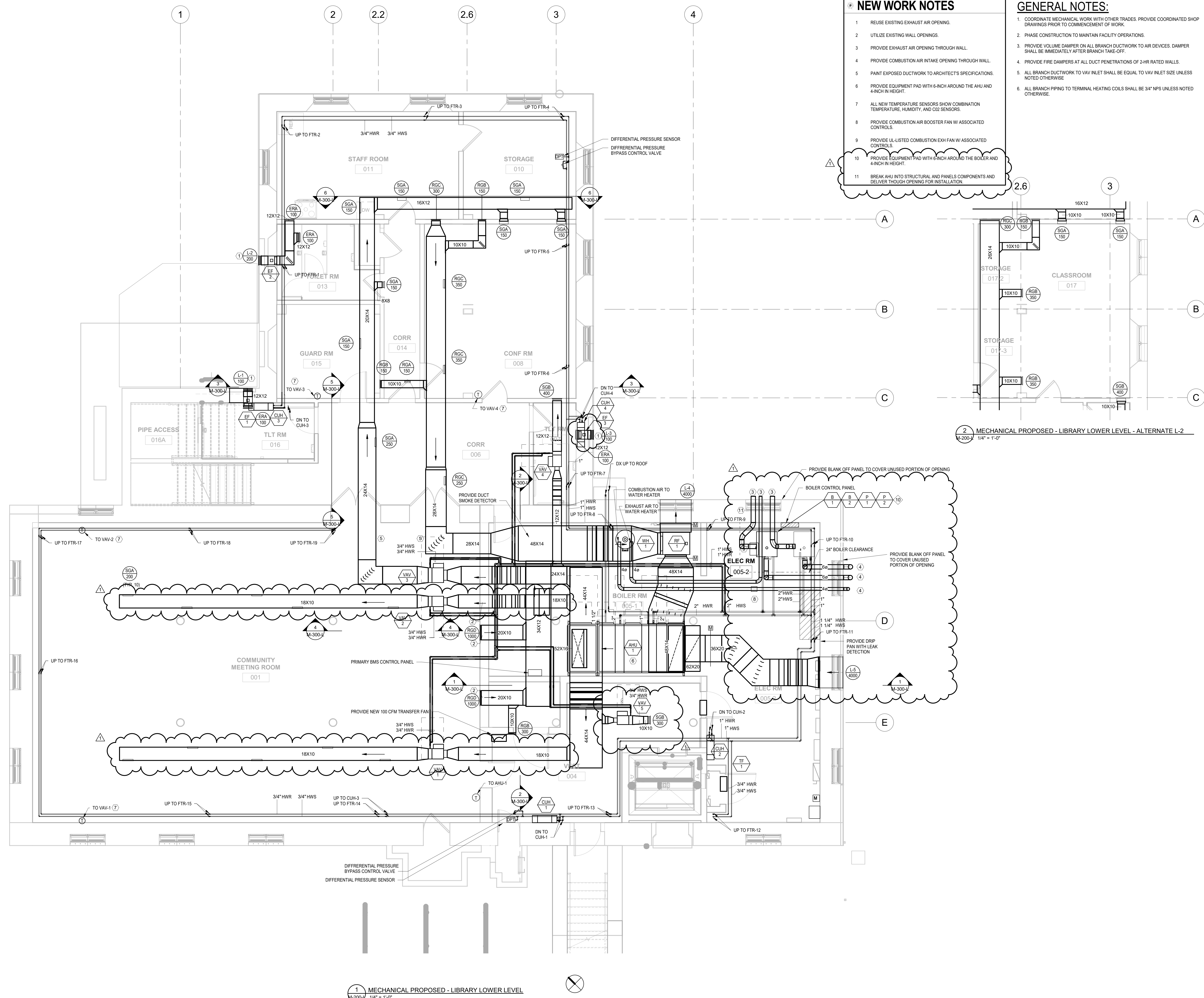
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

NEW WORK NOTES

- 1 REUSE EXISTING EXHAUST AIR OPENING.
- 2 UTILIZE EXISTING WALL OPENINGS.
- 3 PROVIDE EXHAUST AIR OPENING THROUGH WALL.
- 4 PROVIDE COMBUSTION AIR INTAKE OPENING THROUGH WALL.
- 5 PAINT EXPOSED DUCTWORK TO ARCHITECT'S SPECIFICATIONS.
- 6 PROVIDE EQUIPMENT PAD WITH 6-INCH AROUND THE AHU AND 4-INCH IN HEIGHT.
- 7 ALL NEW TEMPERATURE SENSORS SHOW COMBINATION TEMPERATURE, HUMIDITY, AND CO2 SENSORS.
- 8 PROVIDE COMBUSTION AIR BOOSTER FAN W/ ASSOCIATED CONTROLS.
- 9 PROVIDE UL-LISTED COMBUSTION EXH FAN W/ ASSOCIATED CONTROLS.
- 10 PROVIDE EQUIPMENT PAD WITH 6-INCH AROUND THE BOILER AND 4-INCH IN HEIGHT.
- 11 BREAK AHU INTO STRUCTURAL AND PANELS COMPONENTS AND DELIVER THROUGH OPENING FOR INSTALLATION.

GENERAL NOTES:

1. COORDINATE MECHANICAL WORK WITH OTHER TRADES. PROVIDE COORDINATED SHOP DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
2. PHASE CONSTRUCTION TO MAINTAIN FACILITY OPERATIONS.
3. PROVIDE VOLUME DAMPER ON ALL BRANCH DUCTWORK TO AIR DEVICES. DAMPER SHALL BE IMMEDIATELY AFTER BRANCH TAKE-OFF.
4. PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS OF 2-HR RATED WALLS.
5. ALL BRANCH DUCTWORK TO VAV INLET SHALL BE EQUAL TO VAV INLET SIZE UNLESS NOTED OTHERWISE.
6. ALL BRANCH PIPING TO TERMINAL HEATING COILS SHALL BE 3/4" NPS UNLESS NOTED OTHERWISE.



2 MECHANICAL PROPOSED - LIBRARY LOWER LEVEL - ALTERNATE L-2
1/4" = 1'-0"

1 MECHANICAL PROPOSED - LIBRARY LOWER LEVEL
1/4" = 1'-0"

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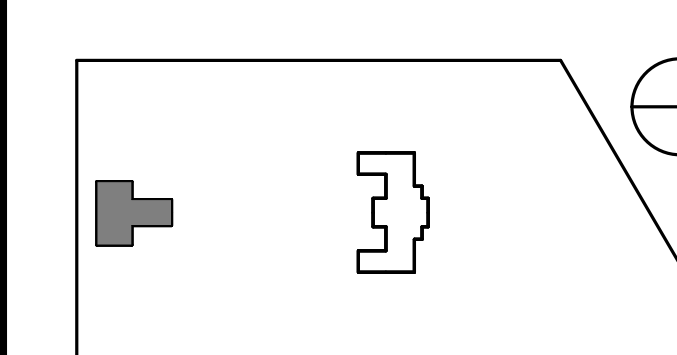
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PROJECT TITLE
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KEY PLAN



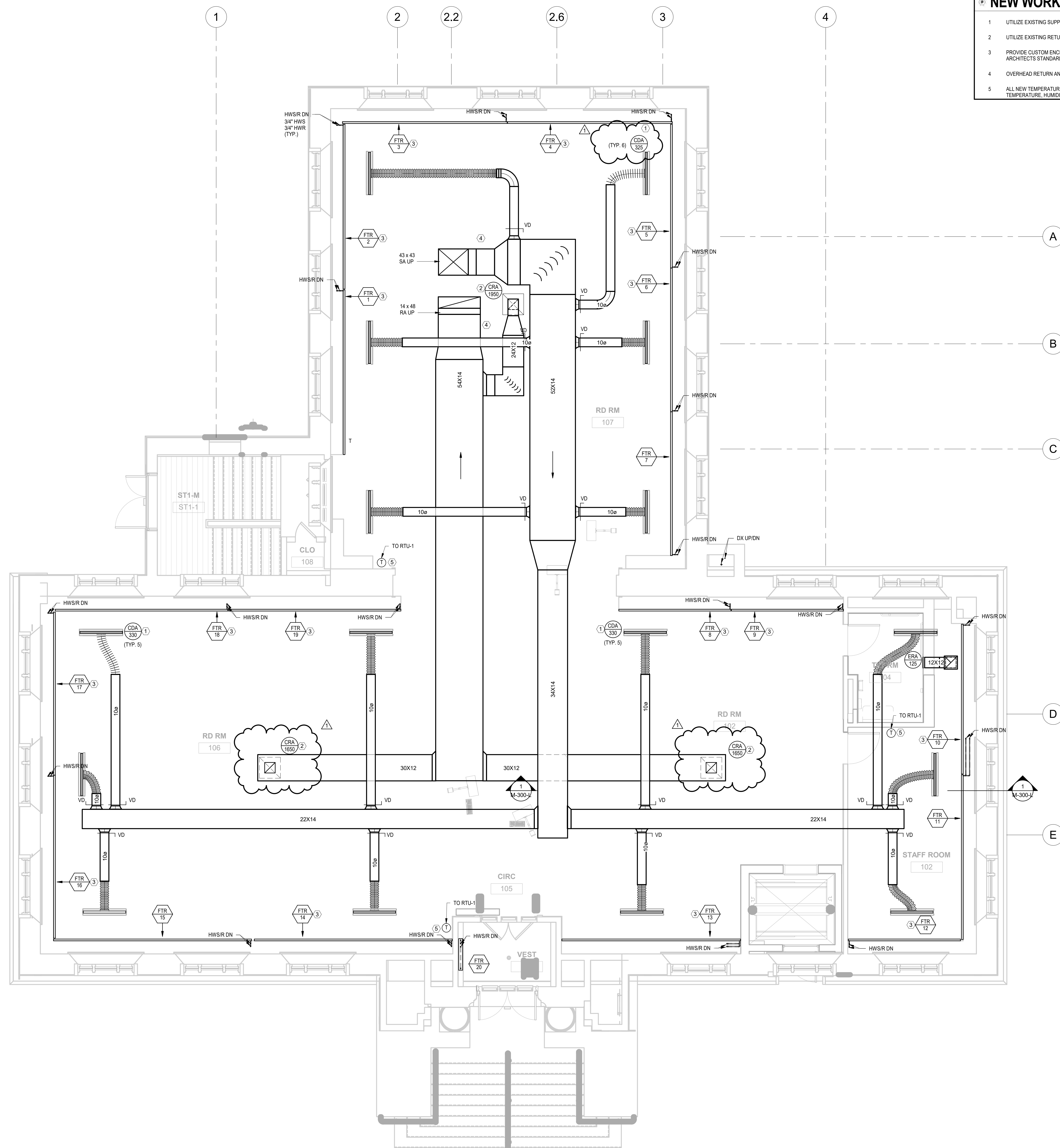
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MECHANICAL PROPOSED - FIRST FLOOR

PROJECT NO. KMLX21003	DRAWING NO. M-201-L
DATE 09/07/2022	SCALE AS NOTED
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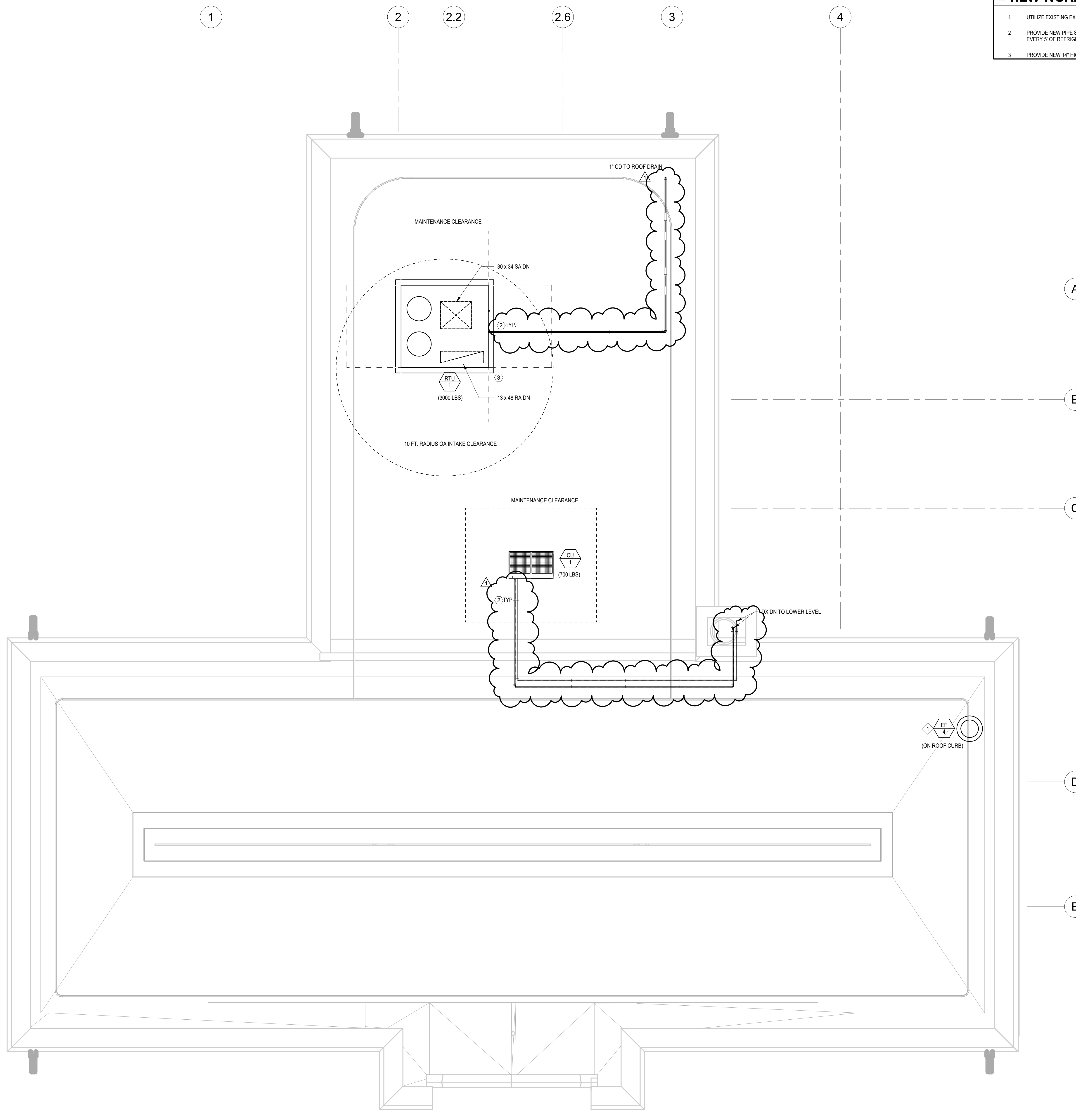
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

- NEW WORK NOTES**
- UTILIZE EXISTING SUPPLY AIR CEILING OPENINGS.
 - UTILIZE EXISTING RETURN AIR CEILING OPENINGS.
 - PROVIDE CUSTOM ENCLOSURE IN ACCORDANCE WITH THE ARCHITECTS STANDARDS.
 - OVERHEAD RETURN AND SUPPLY DUCT IN ATTIC SPACE.
 - ALL NEW TEMPERATURE SENSORS SHOW COMBINATION TEMPERATURE, HUMIDITY, AND CO2 SENSORS.

- GENERAL NOTES:**
- COORDINATE MECHANICAL WORK WITH OTHER TRADES. PROVIDE COORDINATED SHOP DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
 - PHASE CONSTRUCTION TO MAINTAIN FACILITY OPERATIONS.
 - PRIOR TO RELEASE OF ANY HVAC EQUIPMENT FOR FABRICATION, FIELD VERIFY DIMENSIONS AND SUBMIT SHOP DRAWINGS TO A/E FOR REVIEW IDENTIFYING INSTALLATION, IDENTIFY ANY FIELD DIMENSION ISSUES TO A/E TEAM AS SOON AS THEY ARE REALIZED.
 - THE HVAC MECHANICAL CONTRACTOR SHALL DO THE WORK IN ACCORDANCE TO THE LATEST LOCAL AND NATIONAL CODE AND STANDARD.
 - THE HVAC CONTRACTOR SHALL VERIFY THE ACTUAL LOCATION PRIOR TO INSTALLATION AND REPORT ANY TYPE OF OBSTACLE TO PROJECT MANAGER OR ENGINEER FOR CONSULTATION.
 - THE HVAC CONTRACTOR SHALL SUBMIT A COPY OF EQUIPMENT SUBMITTAL TO PENNONI MECHANICAL TEAM FOR APPROVAL PRIOR TO PURCHASE ORDER.
 - AIR BALANCING CONTRACTOR SHALL BALANCE THE ENTIRE SYSTEM IN ACCORDANCE TO THE PROVIDED AIR FLOW DATA.
 - AIR BALANCING CONTRACTOR SHALL PROVIDE A FULL BALANCING REPORT TO PENNONI MECHANICAL TEAM FOR REVIEW AND APPROVAL.
 - PROVIDE VOLUME DAMPER ON ALL BRANCH DUCTWORK TO AIR DEVICES. DAMPER SHALL BE IMMEDIATELY AFTER BRANCH TAKE-OFF.
 - PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS OF 2-HR RATED WALLS.
 - ALL BRANCH DUCTWORK TO VAV INLET SHALL BE EQUAL TO VAV INLET SIZE UNLESS NOTED OTHERWISE.
 - ALL BRANCH PIPING TO TERMINAL HEATING COILS SHALL BE 3/4" NPS UNLESS NOTED OTHERWISE.



1 MECHANICAL PROPOSED - LIBRARY FIRST FLOOR
M-201-L 1/4" = 1'-0"



- NEW WORK NOTES**
- UTILIZE EXISTING EXHAUST FAN OPENING.
 - PROVIDE NEW PIPE SUPPORTS SIMILAR TO MIRO MODEL 1.5 FOR EVERY 5' OF REFRIGERANT PIPING.
 - PROVIDE NEW 14" HIGH EQUIPMENT PAD 6" AROUND RTU.

- GENERAL NOTES:**
- COORDINATE MECHANICAL WORK WITH OTHER TRADES. PROVIDE COORDINATED SHOP DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
 - PHASE CONSTRUCTION TO MAINTAIN FACILITY OPERATIONS.
 - PRIOR TO RELEASE OF ANY HVAC EQUIPMENT FOR FABRICATION, FIELD VERIFY DIMENSIONS AND SUBMIT SHOP DRAWINGS TO A/E FOR REVIEW IDENTIFYING INSTALLATION, IDENTIFY ANY FIELD DIMENSION ISSUES TO A/E TEAM AS SOON AS THEY ARE REALIZED.
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 - PROVIDE VOLUME DAMPER ON ALL BRANCH DUCTWORK TO AIR DEVICES. DAMPER SHALL BE IMMEDIATELY AFTER BRANCH TAKE-OFF.
 - PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS OF 2-HR RATED WALLS.
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 - ALL BRANCH PIPING TO TERMINAL HEATING COILS SHALL BE 3/4" NPS UNLESS NOTED OTHERWISE.

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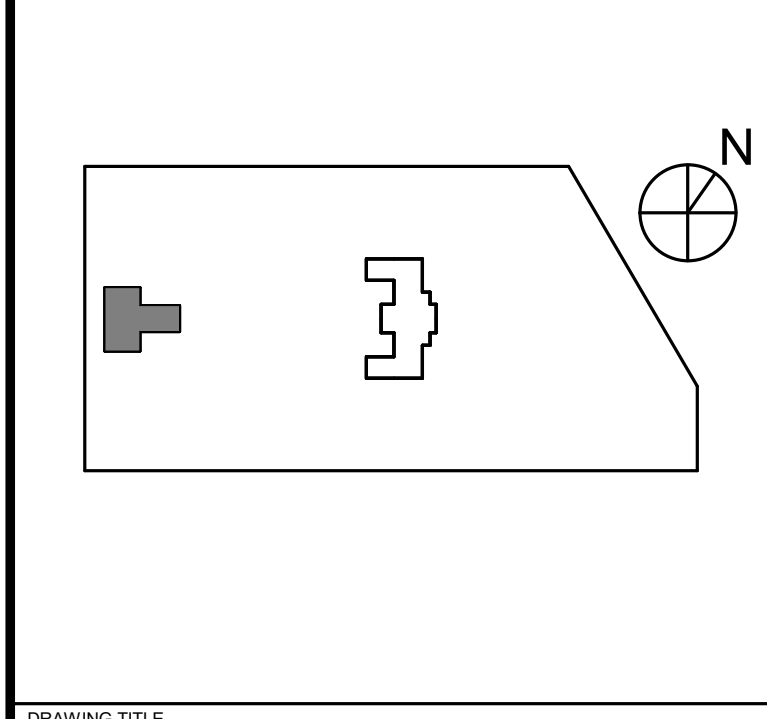
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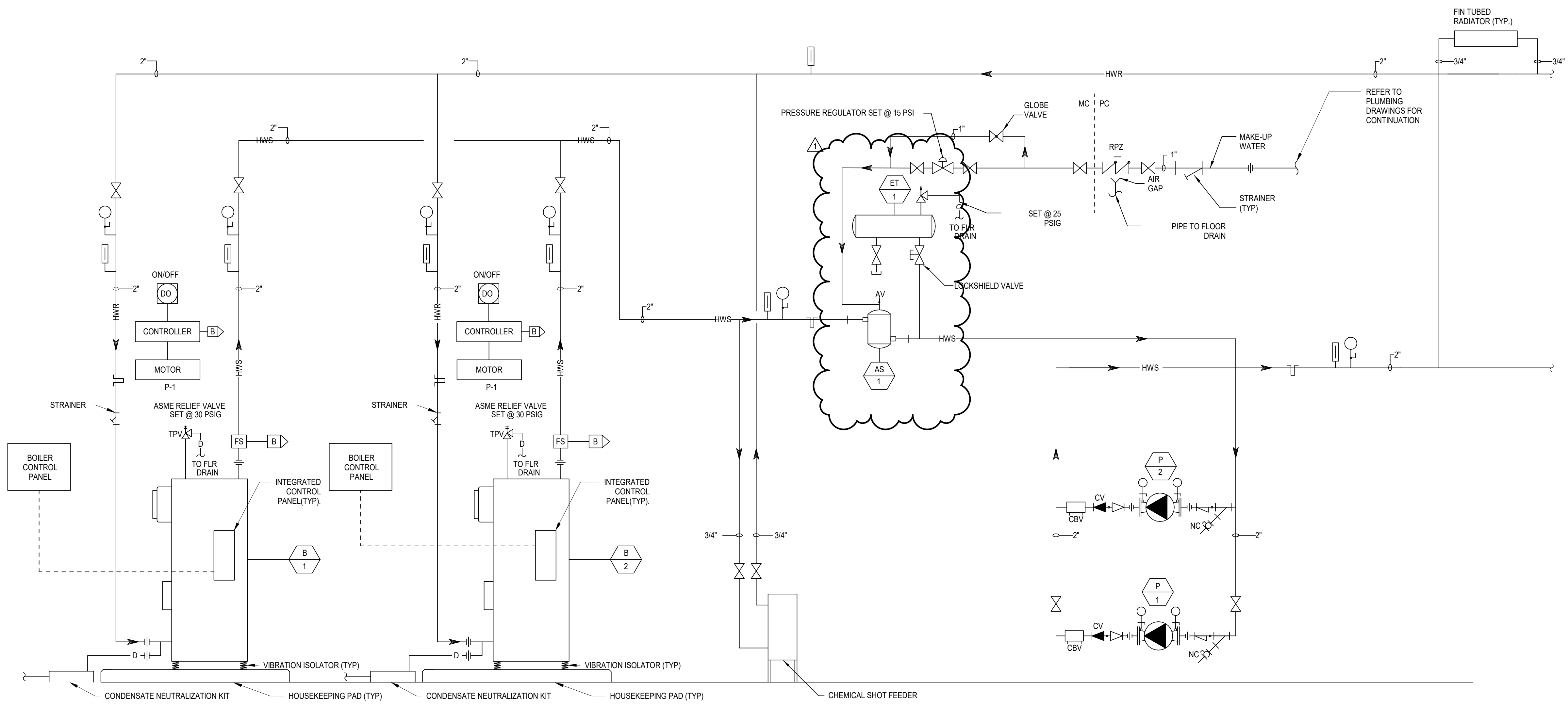
PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS



DRAWING TITLE
MECHANICAL PROPOSED - ROOF

PROJECT NO. KMLX21003	DRAWING NO. M-202-L
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1 HOT WATER FLOW DIAGRAM
1-400-L NOT TO SCALE

NOTES:
1. BOILER DIAGRAM FOR REFERENCE ONLY. PROVIDE INTEGRATION FROM THE EXISTING BOILER DDC CONTROL PANEL TO THE NEW BMS SYSTEM.

HOT WATER BOILER (B-1, B-2, P-1 AND P-2)

- A. SCOPE OF WORK - PROVIDE DDC CONTROLS INTERFACE WITH FACTORY BOILER CONTROL PANEL AND MEET THE SEQUENCES OUTLINED BELOW.
- B. **BOILER ENABLED** - THE BOILER SHALL BE ENABLED AND OPERATE ON A TEMPERATURE RESET SCHEDULE OR VIA MANUAL COMMAND OR BASED ON THE OUTSIDE AIR TEMPERATURE SCHEDULE OUTLINED BELOW:
 OADB > 60 DEG F (ADJ.): DISABLED
 OADB = 60 DEG F (ADJ.): ENABLE - SUPPLY WATER TEMP = 120 DEG F (ADJ.)
 OADB = 50 DEG F (ADJ.): ENABLE - SUPPLY WATER TEMP = 100 DEG F (ADJ.)
 OADB < 50 DEG F (ADJ.): ENABLE - SUPPLY WATER TEMP = 80 DEG F (ADJ.)
 TEMPERATURE RESET SHALL BE ON A LINEAR SCALE FOR TEMPERATURES BETWEEN THE UPPER AND LOWER LIMIT
 WHEN ENABLED, THE LEAD BOILER AND ASSOCIATED PUMP SHALL BE ENERGIZED AS OUTLINED BELOW. THE LEAD BOILER/PUMP WILL BE THE PAIRING WITH THE FEWEST RUNTIME HOURS.
 ON A COMMAND TO START, THE PUMP SHALL ENERGIZE AND BOILER ISOLATION VALVES WILL OPEN. WHEN FLOW IS PROVEN THROUGH THE BOILER VIA PRESSURE DIFFERENTIAL SENSORS, THE BOILER'S GAS BURNERS WILL BE FIRED AND THE BOILER CONTROLS MODULATE TO MAINTAIN SETPOINT TEMPERATURE IN ACCORDANCE WITH THE RESET SCHEDULE AND ITS INTERNAL CONTROLS.

- C. **DISABLED MODE** - THE BOILER SYSTEM WILL BE DISABLED VIA MANUAL COMMAND OR OADB SCHEDULE. WHEN DISABLED ALL PUMPS WILL BE DE-ENERGIZED, THE BOILER BURNER WILL BE DE-ENERGIZED AND ALL ASSOCIATED CONTROL VALVE IN THE BOILER PLANT WILL CLOSE.

DOMESTIC WATER HEATER COMBUSTION AIR AND FLUE EXHAUST SYSTEMS

- A. SCOPE OF WORK - PROVIDE DDC CONTROLS TO MEET THE SEQUENCES OUTLINED BELOW.
- B. **ENABLED MODE** - THE COMBUSTION AIR SUPPLY FAN AND FLUE EXHAUST FAN SHALL BE ENABLED VIA INTEGRAL UL-LISTED FAN CONTROLS TO OPERATE WHENEVER THE DOMESTIC WATER HEATER IS ENABLED.
- C. **DISABLED MODE** - WHEN DISABLED, VIA MANUAL COMMAND FROM THE BMS, THE COMBUSTION AIR SUPPLY FAN AND FLUE EXHAUST FAN SHALL DE-ENERGIZE AND THE ASSOCIATED ISOLATION DAMPER SHALL CLOSE.
- D. PROVIDE ALL POINTS IDENTIFIED ON THE ASSOCIATED TABLE TO THE BMS GRAPHIC.

AIR HANDLING UNIT - HYDRONIC HEATING AND DX COOLING - MULTI-ZONE (AHU-1)

- A. SCOPE OF WORK - PROVIDE DDC CONTROLS TO MEET THE SEQUENCES OUTLINED BELOW.
- B. **FIRE ALARM INTERFACE** - PROVIDE RELAY FOR CONNECTION TO FIRE ALARM SYSTEM. UPON DETECTION OF FIRE ANYWHERE IN THE BUILDING, THE HVAC SYSTEMS WILL BE SHUTDOWN AND ASSOCIATED DAMPERS WILL BE CLOSED.
- C. **OCCUPIED MODE** - THE AHU SHALL BE ENABLED VIA MANUAL COMMAND FROM THE BMS AND RUN CONTINUOUSLY. HEATING AND COOLING MODE WILL BE DETERMINED VIA THE BOILER IS DISABLED VIA BOILER TEMPERATURE RESET CONTROLS.
 WHEN ENABLED, THE SUPPLY FAN VFD SHALL RAMP FIRST TO MINIMUM SPEED AND THEN THE VFD SHALL MODULATE FAN SPEED TO MAINTAIN SETPOINT DISCHARGE STATIC PRESSURE OF 2 INWG (ADJ.).
COOLING - WHEN IN COOLING MODE, THE HOT WATER CONTROL VALVE SHALL REMAIN CLOSED AND THE DX COMPRESSORS SHALL MODULATE TO MAINTAIN 55 DEG F (ADJ.) SUPPLY AIR DISCHARGE AIR TEMPERATURE.
HEATING - WHEN IN HEATING MODE, THE DX COMPRESSORS SHALL REMAIN CLOSED AND THE HOT WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN 52 DEG F (ADJ.) SUPPLY AIR DISCHARGE AIR TEMPERATURE.
DEMAND CONTROL VENTILATION - THE BMS SHALL MODULATE THE OA DAMPER POSITION TO MAINTAIN A MINIMUM CO2 LEVEL OF 800 PPM IN THE RETURN AIR. DURING OCCUPIED PERIODS, THE BMS CONTROLS SHALL ALLOW THE OA DAMPER TO MODULATE TO 50% OF THE DESIGN SETPOINT.
ECONOMIZER - ECONOMIZER MODE SHALL BE AVAILABLE WHENEVER THE OUTSIDE AIR ENTHALPY IS LESS THAN THE AIR HANDLING UNIT RETURN/EXHAUST AIR ENTHALPY. WHEN IN ECONOMIZER BOTH THE DX COMPRESSORS AND THE HOT WATER CONTROL VALVES WILL REMAIN CLOSED AND THE RETURN, RELIEF AND OUTSIDE AIR DAMPERS SHALL MODULATE TO MAINTAIN SETPOINT SUPPLY AIR DISCHARGE TEMPERATURE OF 55 DEG F (ADJ.)
 RETURN FAN - THE RETURN FAN SHALL RUN WHENEVER AHU-1 IS COMMANDED TO ENERGIZE. THE VFD SHALL MODULATE TO PROVIDE RETURN AIR IN ACCORDANCE WITH THE FOLLOWING EQUATION:
 RETURN AIRFLOW = SUPPLY AIRFLOW - 400 CFM (ADJ.)
 UNOCCUPIED MODE - THE FAN WILL DE-ENERGIZE AND THE HOT WATER CONTROL VALVES AND DX COMPRESSORS WILL SHUT DOWN. ALL ASSOCIATED DAMPERS WILL CLOSE. UPON A CALL FOR COOLING OR HEATING IN ACCORDANCE WITH THE OCCUPIED/UNOCCUPIED SCHEDULE, THE FAN SHALL ENERGIZE TO MINIMUM SPEED AND THE HOT WATER VALVE AND DX COMPRESSORS WILL MODULATE TO MAINTAIN UNOCCUPIED SETBACK SPACE TEMPERATURE.
 A VAV ZONE COMMAND TO COOLING OR HEATING IN ACCORDANCE WITH THEIR OCCUPIED/ UNOCCUPIED SCHEDULE SHALL CAUSE THE AHU FAN AND RETURN FAN TO ENERGIZE, BUT KEEP OA AND RELIEF DAMPERS CLOSED.
 FREEZE PROTECTION - A FREEZESTAT WILL BE LOCATED DOWNSTREAM OF THE HOT WATER COIL AND UPSTREAM OF THE DX COMPRESSORS. SHOULD THE FREEZESTAT TRIP, SUPPLY FAN AND RETURN FAN WILL DE-ENERGIZE. THE DX COMPRESSORS SHALL CLOSE. THE OUTSIDE AIR DAMPER SHALL CLOSE, AND THE HOT WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN 45 DEG F IN THE AHU CABINET. A SIGNAL WILL BE ALARMED TO THE BMS.

- G. HIGH DISCHARGE AND LOW SUCTION STATIC PRESSURE - IN THE EVENT OF A HIGH DISCHARGE PRESSURE OR A LOW SUCTION PRESSURE ALARM, THE SUPPLY AND RETURN FANS WILL DE-ENERGIZE AND AN ALARM SENT TO THE BMS.
- H. PROVIDE ALL POINTS AND ALARMS IDENTIFIED ON THE ASSOCIATED TABLE TO THE BMS GRAPHIC.

VARIABLE AIR VOLUME (VAV) BOXES WITH HOT WATER REHEAT

- A. SCOPE OF WORK - PROVIDE DDC CONTROLS TO MEET THE SEQUENCES OUTLINED BELOW.
- B. **VAV BOXES** SHALL BE ENABLED VIA A MANUAL COMMAND AND OPERATE CONTINUOUSLY. VAV BOXES SHALL MAINTAIN THE FOLLOWING TEMPERATURE SETPOINTS:
 COOLING OCCUPIED: 75 DEG F (ADJ.)
 COOLING UNOCCUPIED: 80 DEG F (ADJ.)
 HEATING OCCUPIED: 98 DEG F (ADJ.)
 HEATING UNOCCUPIED: 60 DEG F (ADJ.)
 THE VAV BOX AIR DAMPER SHALL MODULATE TO MAINTAIN SPACE SETPOINT TEMPERATURE. UPON A FALL IN SPACE TEMPERATURE BELOW SETPOINT, THE BOX DAMPER SHALL MODULATE CLOSED TO THE MINIMUM CFM SETPOINT (ADJ.) UPON A FURTHER FALL IN SPACE TEMPERATURE, THE BOX DAMPER SHALL REMAIN AT MINIMUM POSITION AND THE HOT WATER REHEAT VALVE SHALL MODULATE AS NECESSARY TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.
 UPON A RISE IN SPACE TEMPERATURE, THE HOT WATER REHEAT VALVE SHALL CLOSE. UPON A FURTHER RISE IN SPACE TEMPERATURE, THE BOX DAMPER SHALL MODULATE FROM THE MINIMUM TO THE MAXIMUM CFM SETTING AS NECESSARY TO MAINTAIN THE CFM SETPOINT AS RESET BY THE SPACE TEMPERATURE.
 THE MINIMUM AND MAXIMUM CFM SETTINGS SHALL BE THOSE SCHEDULED ON THE MECHANICAL EQUIPMENT SCHEDULES. BOTH MAXIMUM AND MINIMUM SETPOINT SHALL BE ADJUSTABLE FROM THE BMS.
- C. **DISABLED MODE** UPON MANUAL COMMAND, THE VAV BOX DAMPER SHALL CLOSE AND THE REHEAT VALVE SHALL REMAIN CLOSED.
- D. THE BMS SHALL SHOW ALL POINTS IDENTIFIED ON THE ASSOCIATED TABLE

AIR HANDLING UNIT - DX COOLING AND GAS HEAT - SINGLE-ZONE (RTU-1)

- A. SCOPE OF WORK - PROVIDE DDC CONTROLS TO MEET THE SEQUENCES OUTLINED BELOW.
- B. **FIRE ALARM INTERFACE** - PROVIDE RELAY FOR CONNECTION TO FIRE ALARM SYSTEM. UPON DETECTION OF FIRE ANYWHERE IN THE BUILDING, THE HVAC SYSTEMS WILL BE SHUTDOWN AND ASSOCIATED DAMPERS WILL BE CLOSED.
 COOLING MODE: WHEN OA TEMPERATURE IS 55 DEG F (ADJ.) AND HIGHER
 HEATING MODE: WHEN OA TEMPERATURE IS 50 DEG F (ADJ.) AND LOWER
 WHEN ENABLED THE SUPPLY FAN SHALL VFD SHALL RAMP FIRST TO MINIMUM SPEED AND THEN THE VFD SHALL MODULATE FAN SPEED TO MAINTAIN SETPOINT SPACE AIR TEMPERATURE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE AND THE SEQUENCES BELOW:
 COOLING MODE OCCUPIED: 75 DEG F (ADJ.)
 COOLING MODE HUMIDITY OCCUPIED: 50% RH
 COOLING MODE UNOCCUPIED: 80 DEG F (ADJ.)
 HEATING MODE OCCUPIED: 70 DEG F (ADJ.)
 HEATING MODE UNOCCUPIED: 65 DEG F (ADJ.)
 SPACE TEMPERATURE SHALL BE DETERMINED BY AVERAGING THE SPACE TEMPERATURE SENSORS THROUGHOUT THE SPACE.
COOLING MODE - WHEN IN COOLING MODE THE GAS BURNER SHALL REMAIN OFF AND THE DX COMPRESSORS WILL MODULATE TO MAINTAIN 55 DEG F (ADJ.) AND THE SUPPLY FAN SHALL MODULATE BETWEEN MINIMUM CFM (PER VENTILATION TABLES) AND 100% FAN SPEED TO MAINTAIN THE SETPOINT TEMPERATURE AND HUMIDITY.
HEATING MODE - UPON A CALL FOR SPACE HEATING, THE SUPPLY FAN SHALL FIRST MODULATE TO MINIMUM POSITION WHILE MAINTAINING 55 DEG F DISCHARGE AIR SETPOINT. IF THE FAN IS AT MINIMUM SPEED AND THERE IS STILL A CALL FOR SPACE HEATING, THE DX COMPRESSOR AND HOT GAS REHEAT WILL MODULATE PROPORTIONALLY. IF THE FAN IS AT MINIMUM SPEED AND THE DX COMPRESSOR IS OFF, THE GAS BURNER WILL MODULATE TO MAINTAIN HEATING MODE SPACE SETPOINT TEMPERATURE.
DEMAND CONTROL VENTILATION - THE BMS SHALL MODULATE THE OA DAMPER POSITION TO MAINTAIN A MINIMUM CO2 LEVEL OF 800 PPM IN THE SPACE. DURING OCCUPIED PERIODS, THE BMS CONTROLS SHALL ALLOW THE OA DAMPER TO MODULATE TO 50% OF THE DESIGN SETPOINT.
ECONOMIZER - ECONOMIZER MODE SHALL BE AVAILABLE WHENEVER THE OUTSIDE AIR ENTHALPY IS LESS THAN THE AIR HANDLING UNIT RETURN/EXHAUST AIR ENTHALPY. WHEN IN ECONOMIZER BOTH THE DX COMPRESSOR AND THE GAS BURNER WILL REMAIN CLOSED AND THE RETURN AND OUTSIDE AIR DAMPERS SHALL MODULATE TO MAINTAIN SETPOINT SUPPLY AIR TEMPERATURE OF 55 DEG F (ADJ.)
 UNOCCUPIED MODE - THE FAN WILL DE-ENERGIZE AND THE DX COMPRESSOR AND GAS BURNER WILL SHUT DOWN. ALL ASSOCIATED DAMPERS WILL CLOSE. UPON A CALL FOR COOLING OR HEATING IN ACCORDANCE WITH THE OCCUPIED/UNOCCUPIED SCHEDULE, THE FAN SHALL ENERGIZE TO MINIMUM SPEED AND THE DX COMPRESSOR OR GAS BURNER WILL MODULATE TO MAINTAIN UNOCCUPIED SETBACK SPACE TEMPERATURE. OUTSIDE AIR DAMPERS AND RELIEF DAMPERS WILL REMAIN CLOSED. POWER EXHAUST WILL REMAIN DE-ENERGIZED.
 PROVIDE ALL POINTS AND ALARMS IDENTIFIED ON THE ASSOCIATED TABLE TO THE BMS GRAPHIC.

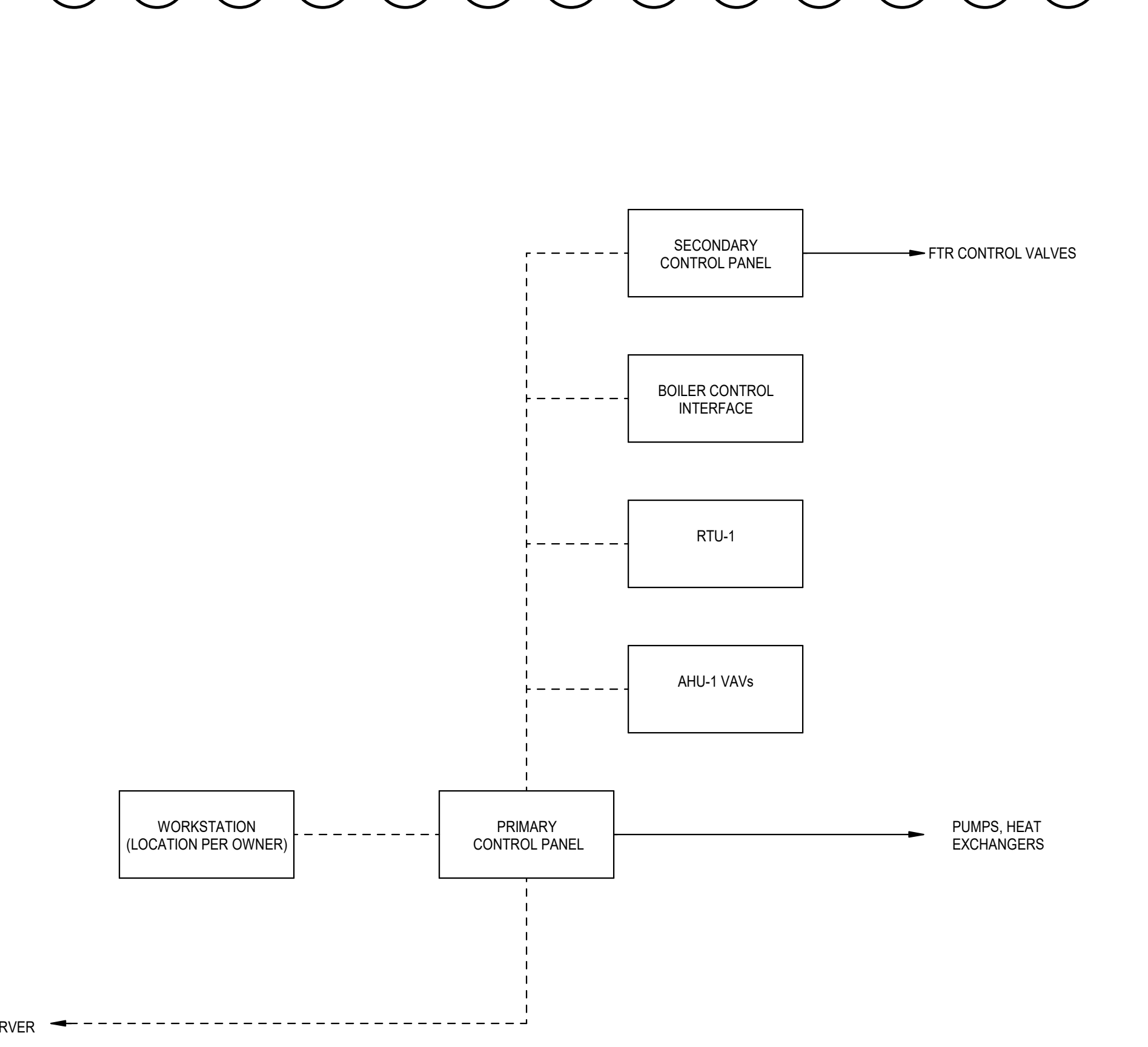
EXHAUST FANS - CONSTANT VOLUME (EF-1 THRU EF-4)

- A. SCOPE OF WORK - PROVIDE DDC CONTROLS TO MEET THE SEQUENCES OUTLINED BELOW.
- B. **ENABLED MODE** - EXHAUST FANS SHALL BE ENABLED VIA OCCUPANCY SENSOR IN THE ROOM. WHEN ENABLED, THE ASSOCIATED FANS SHALL ENERGIZE AND WILL REMAIN ENERGIZED FOR 5 MINUTES AFTER OCCUPANCY IS DETECTED.
- C. PROVIDE ALL POINTS AND ALARMS IDENTIFIED ON THE ASSOCIATED TABLE TO THE BMS GRAPHIC.

UNIT HEATERS (CUH-1 THRU CUH-3)

- A. SCOPE OF WORK - UNIT HEATERS WILL BE PROVIDED WITH NEW DDC CONTROLS AND END DEVICES BY THE ATC CONTRACTOR TO EXECUTE THE BELOW SEQUENCE OF OPERATIONS
- B. **ENABLED MODE** - UNIT HEATERS SHALL BE ENABLED VIA MANUAL COMMAND FROM THE BMS AND RUN CONTINUOUSLY.
- C. **DISABLED MODE** - UNIT HEATERS SHALL BE DISABLED VIA MANUAL COMMAND FROM THE INTERNAL CONTROLS.

KINGSESSING LIBRARY BMS DATA POINTS LIST		
POINT NAME	POINT NAME	POINT NAME
OA TEMPERATURE	OA TEMPERATURE	OUTSIDE AIR TEMPERATURE
OA ENTHALPY	OA ENTHALPY	BOILER ENABLED
OA DAMPER COMMAND	OA DAMPER COMMAND	BOILER RUN HOURS
RA DAMPER COMMAND	RA DAMPER COMMAND	BOILER ISOLATION VALVE COMMAND
GAS BURNER COMMAND	RELIEF DAMPER COMMAND	BOILER ISOLATION VALVE FEEDBACK
COOLING COIL DISCHARGE AIR TEMPERATURE	HOT WATER VALVE COMMAND	BOILER CIRCULATOR COMMAND
DX COIL COMPRESSOR COMMAND	COOLING COIL DISCHARGE AIR TEMPERATURE	BOILER CIRCULATOR STATUS
DX COIL COMPRESSOR STATUS	DX COIL COMPRESSOR COMMAND	BOILER ENTERING WATER TEMP
SUPPLY FAN STATUS	DX COIL COMPRESSOR STATUS	BOILER ENTERING WATER TEMP SETPOINT
SUPPLY FAN SPEED	SUPPLY FAN STATUS	BOILER LEAVING WATER TEMP
SUPPLY FAN DISCHARGE STATIC	SUPPLY FAN SPEED	BOILER LEAVING WATER TEMP SETPOINT
POWER EXHAUST FAN SPEED	SUPPLY FAN DISCHARGE STATIC	GAS BURNER FIRING RATE
RETURN FAN STATUS	RETURN FAN STATUS	BOILER CONTROL PANEL COMMUNICATION STATUS
SUPPLY AIRFLOW	RETURN FAN SPEED	LAST DIAGNOSTIC
SPACE TEMPERATURE (EACH)	RETURN FAN DISCHARGE STATIC	HIGH WATER TEMPERATURE ALARM (10 DEG F ABOVE SETPOINT)
SPACE TEMPERATURE (AVERAGE)	RETURN CO2 LEVEL (PPM) (AVERAGE)	LOW WATER TEMPERATURE ALARM (10 DEG F BELOW SETPOINT)
SPACE TEMPERATURE (SETPOINT)	RETURN CO2 LEVEL (SETPOINT)	PUMP RUN HOURS
SPACE AVERAGE LOW TEMPERATURE ALARM	RETURN HIGH CO2 LEVEL ALARM	PUMP DIFFERENTIAL PRESSURE
SPACE AVERAGE HIGH TEMPERATURE ALARM	DEMAND CONTROL VENTILATION ENABLE	PUMP VFD START/STOP
SPACE HUMIDITY (AVERAGE)	DEMAND CONTROL VENTILATION STATUS	PUMP VFD STATUS
SPACE HUMIDITY SETPOINT	ECONOMIZER ENABLE	PUMP VFD SPEED
SPACE HIGH HUMIDITY ALARM	ECONOMIZER STATUS	PUMP VFD ALARM
SPACE CO2 LEVEL (PPM) (AVERAGE)		BOILER BURNER ALARM
SPACE CO2 LEVEL (SETPOINT)		
SPACE HIGH CO2 LEVEL ALARM	VAV AIRFLOW (EACH VAV)	SPACE TEMPERATURE (INTERLOCK TO ASSOC AHURTU)
SPACE PRESSURE	VAV DAMPER COMMAND (EACH VAV)	SPACE TEMPERATURE (SETPOINT)
DEMAND CONTROL VENTILATION ENABLE	VAV REHEAT CONTROL VALVE COMMAND (EA VAV)	HOT WATER VALVE COMMAND
DEMAND CONTROL VENTILATION STATUS	SPACE TEMPERATURE (EACH VAV)	
ECONOMIZER ENABLE	SPACE TEMPERATURE (SETPOINT) (EACH VAV)	
ECONOMIZER STATUS	SPACE LOW TEMPERATURE ALARM (EACH VAV)	EXHAUST FAN STATUS
	SPACE HIGH TEMPERATURE ALARM (EACH VAV)	EXHAUST DAMPER
		EXHAUST DAMPER (POSITION)



2 BMS NETWORK DIAGRAM
1-400-L NOT TO SCALE

- CONTROLS DRAWINGS NOTES:**
- PROVIDE NEW BACNET-COMPATIBLE (ASHRAE 135) DDC CONTROL SYSTEM FOR ALL NEW EQUIPMENT SPECIFIED AND ALL EXISTING EQUIPMENT IDENTIFIED ON THE DOCUMENTS.
 - PROVIDE BMS GRAPHICS FOR ALL SYSTEMS IDENTIFIED TO BE CONNECTED TO THE BMS SYSTEM.
 - THIS DRAWING IS FOR REFERENCE ONLY. NOT ALL REQUIRED CONTROLLERS AND DEVICES ARE SHOWN. PROVIDE THE QUANTITY OF SUPERVISORY CONTROLLERS SHOWN AT A MINIMUM. ADDITIONAL DEVICES SHALL BE PROVIDED AS REQUIRED TO ACCOMMODATE TOTAL POINT CONTROL.
 - PROVIDE ALLOWANCE FOR (5) ADDITIONAL HW CONTROL VALVES FOR RADIATORS AND COILS NOT IDENTIFIED ON PLANS.
 - EXISTING CONTROLS COMPRESSORS AND ELECTRICAL FRONT-ENDS ARE TO BE DE-COMMISSIONED AND EXISTING PNEUMATIC TUBING AND WIRING BE ABANDONED.

REVISIONS

DATE	ISSUE	DESCRIPTION
08/29/22	1	ISSUE FOR BID
08/17/22	0	ISSUE FOR BID



REVIEWED BY:
PROJECT COORDINATOR

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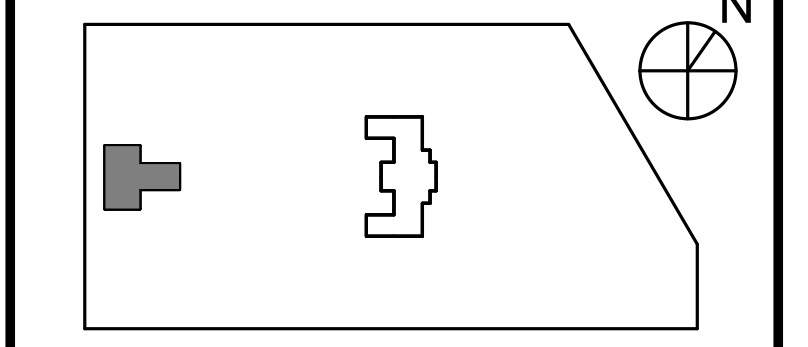
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PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS

KEY PLAN



DRAWING TITLE
MECHANICAL CONTROLS SEQUENCES

PROJECT NO. KLMLX21003	DRAWING NO. M-400-L
DATE 08/07/2022	SCALE AS NOTED
DRAWN BY: ELP	CHECKED BY: RHC
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.	

LOUVER SCHEDULE												
UNIT NO.	MANUFACTURER	DESCRIPTION	MODEL/TYPE	SIZE(INCHES)	CFM	FREE AREA (SQ. FT.)	FREE AREA VELOCITY (FPM)	PRESSURE DROP (IN. WG)	TYPE OF FRAME AND MOUNTING	MOUNTING HEIGHT	SERVICE	REMARKS
L-1	GREENHECK	STATIONARY LOUVER	ESJ-202-12x12	12x12x2	100	0.2	431	0.03	CHANNEL	5'-8"	TOILET ROOM 018 EXHAUST	-
L-2	GREENHECK	STATIONARY LOUVER	EEO-401-12x12	12x12x4	200	0.3	841	0.06	CHANNEL	7'-8"	STAFF ROOM 011, TOILET ROOM 013	-
L-3	GREENHECK	STATIONARY LOUVER	ESJ-202-12x12	12x12x2	100	0.2	431	0.03	CHANNEL	5'-8"	TOILET ROOM 007 EXHAUST	-
L-4	RUSKIN	STATIONARY LOUVER	ELF375-42X36	42x36x4	4000	5.28	750	0.12	CHANNEL	5'-3"	AHU-1 RELIEF AIR	-
L-5	RUSKIN	STATIONARY LOUVER	ELF375-42X36	42x36x4	4000	5.28	750	0.1	CHANNEL	5'-3"	AHU-1 OUTSIDE AIR INTAKE	-

VAV TERMINAL BOX SCHEDULE																	
UNIT NO.	SERVICE	INLET SIZE	CFM		SP (INWG)		NOISE (NC)		REHEAT COIL					OPER. UNIT WEIGHT (LBS)	BASIS OF DESIGN: MANUFACTURER AND MODEL NO.	REMARKS	
			MIN.	MAX.	INLET	DOWNSTREAM	DISCHARGE	RADIATED	CAPACITY (MBH)	EAT (DEG F)	LAT (DEG F)	GPM	EWT (DEG F)				LWT (DEG F)
VAV-1	BASEMENT	9 7/8"	500	1,000	0.75	0.5	-	-	16.2	55	85	1.1	160	130	250	DAIKIN MQTH510	SEE NOTES
VAV-2	BASEMENT	9 7/8"	500	1,000	0.75	0.5	-	-	16.2	55	85	1.1	160	130	250	DAIKIN MQTH510	SEE NOTES
VAV-3	BASEMENT	13 7/8"	875	1,750	0.75	0.5	-	-	28.4	55	85	1.9	160	130	250	DAIKIN MQTH514	SEE NOTES
VAV-4	BASEMENT	5 7/8"	200	400	0.75	0.5	-	-	6.5	55	85	0.4	160	130	250	DAIKIN MQTH506	SEE NOTES
VAV-5	BASEMENT	5 7/8"	200	400	0.75	0.5	-	-	6.5	55	85	0.4	160	130	250	DAIKIN MQTH506	SEE NOTES

- NOTES:
1. PROVIDE VAV BOXES WITH PRSSURE INDEPENDENT CONTROLS.
2. PROVIDE VAV BOS WITH 1/2" CLOSED CELL FOAM INTERNAL LINER
3. INLET PRESSURE PROVIDED FOR DISCHARGE AND RADIATED NOISE CALCULATIONS.

DUCT CONSTRUCTION AND INSULATION SCHEDULE									
DUCT SECTION	SERVICE	OUTSIDE AIR		SUPPLY AIR		RETURN AIR		EXHAUST AIR	
		FROM:	LOUVER	AHU/RTU	SPACE OR PLENUM	SPACE OR PLENUM	SPACE OR PLENUM	SPACE OR PLENUM	SPACE OR PLENUM
TO:	AHU	GRD	AHU	FAN	FAN	FAN	FAN	FAN	FAN
PRESSURE CLASSIFICATION:		+/- 2.0" H2O		+/- 4.0" H2O		+/- 2.0" H2O		+/- 2.0" H2O	
SMACNA CLASSIFICATION:		A		A		A		A	
OUTER WALL MATERIAL:		G90 GALVANIZED STEEL		G90 GALVANIZED STEEL		G90 GALVANIZED STEEL		G90 GALVANIZED STEEL	
INNER WALL MATERIAL:		-		-		-		-	
DUCT AIR TEMPERATURE:		ALL TEMPS.		ALL TEMPS.		ALL TEMPS.		ALL TEMPS.	
EXTERIOR INSULATION	TYPE:	FIBERGLASS (1.5 PCF)		FIBERGLASS (1.5 PCF)		FIBERGLASS (1.5 PCF)		FIBERGLASS (1.5 PCF)	
THICKNESS:		3" THK (MIN R8 INSTALLED)		2" THK (MIN R8 INSTALLED)		2" THK (MIN R8 INSTALLED)		2" THK (MIN R8 INSTALLED)	
VAPOR BARRIER:		FRK		FRK		FRK		FRK	
INTERNAL LINER	TYPE:	-		-		-		-	
DENSITY:		-		-		-		-	
REMARKS:									

- NOTES:
1. ALL DUCTWORK SHALL BE MINIMUM 24 GAUGE.
2. CONSTRUCT DUCTWORK TO SMACNA STANDARDS.
3. INSULATION ASSEMBLY SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 AND UL 723.
4. ACOUSTIC LINER SIMILAR TO DUCTMATE POLYARMOR WHERE NOTED ON DRAWING.

PIPE CONSTRUCTION AND INSULATION SCHEDULE							
SERVICE	HOT WATER		CONDENSATE DRAIN		REFRIGERANT		
	INDOORS		INDOORS / OUTDOORS		INDOORS / OUTDOORS		
LOCATION TEMPERATURE	120-200 F		42-58 F		42-58 F		
PIPE MATERIALS	PIPE SIZE	MATERIAL/JOINTS	PIPE SIZE	MATERIAL/JOINTS	PIPE SIZE	MATERIAL/JOINTS	
	3/4" - 2"	ASTM B88 HARD-DRAWN TYPE L COPPER/ANSI B16.22 SOLDER 95/5TA SOLDERED	3/4" - 2"	ASTM B88 HARD-DRAWN TYPE L COPPER/ANSI B16.22 SOLDER 95/5TA SOLDERED	3/4" - 2"	PER MANUFACTURER REQUIREMENT	
	2 1/2" & UP	ASTM A53 SCH 40 SEAMLESS STEEL/ANSI B16.9 BUTT WELD	2 1/2" & UP	ASTM A53 SCH 40 SEAMLESS STEEL/ANSI B16.9 BUTT WELD	2 1/2" & UP	PER MANUFACTURER REQUIREMENT	
MAX OPERATING PRESSURE	150 PSIG		150 PSIG		PER MANUFACTURER REQUIREMENT		
SEAMLESS/ERV	SEAMLESS		SEAMLESS		PER MANUFACTURER REQUIREMENT		
PIPE INSULATION	PIPE SIZE	INSULATION THICKNESS	PIPE SIZE	INSULATION THICKNESS	PIPE SIZE	INSULATION THICKNESS	
	3/4" - 1"	1 1/2"	3/4" - 1"	1" OUTDOOR / 2" OUTDOOR	3/4" - 1 1/2"	1" OUTDOOR / 2" OUTDOOR	
	1 1/2" - 4"	2"	1 1/4" - 2"	1" OUTDOOR / 2" OUTDOOR	2" - 4"	1" OUTDOOR / 2" OUTDOOR	
INSULATION TYPE	MOLDED FIBERGLASS		MOLDED FIBERGLASS		FLEXIBLE ELASTOMERIC/ ARMAFLEX		
JACKET	ASJ		ASJ		ASJ INDOOR/ ASJ W/ UV PROTECTION OUTDOORS		
WEATHERPROOFING	NONE		NONE		NONE		
MAXIMUM K-VALUE	Kmax = 0.27 AT 175 DEG F		Kmax = 0.21 AT 75 DEG F MEAN TEMP		Kmax = 0.27		
PIPE VALVES	PIPE SIZE	ISOLATION/THRITTLE	PIPE SIZE	ISOLATION/THRITTLE	PIPE SIZE	ISOLATION/THRITTLE	
	3/4" - 2"	BALL VALVE/BALL VALVE	3/4" - 2"	BALL VALVE/BALL VALVE	3/4" - 2"	PER MANUFACTURER REQUIREMENT	
	2-1/2" & UP	BUTTERFLY VALVE/BALL VALVE	2-1/2" & UP	BUTTERFLY VALVE/BALL VALVE	2-1/2" & UP	PER MANUFACTURER REQUIREMENT	
REMARKS	SEE NOTES		SEE NOTES		SEE NOTES		

- NOTES:
1. MECHANICAL FITTINGS SIMILAR TO VEGA PRO-PRESS ARE ACCEPTABLE FOR TERMINAL UNIT BRANCH PIPING REPLACEMENT.
2. PROVIDE HEAT TRACING FOR ALL EXPOSED PIPE ON THE ROOF. HEAT TRACING SHALL BE SIMILAR TO CHROMALOX SRL AT 5 WATTS PER LINEAR FOOT.
3. FOR EXPOSED OUTDOOR HYDRONIC PIPING, MIN INSULATION THICKNESS SHALL BE 1 INCH LARGER THAN FOR INDOOR HYDRONIC PIPING. PROVIDE ALUMINUM JACKET (MIN 0.016 IN) TO ALL EXPOSED OUTDOOR HYDRONIC PIPING.

VAV TERMINAL BOX SCHEDULE																	
UNIT NO.	SERVICE	INLET SIZE	CFM		SP (INWG)		NOISE (NC)		REHEAT COIL					OPER. UNIT WEIGHT (LBS)	BASIS OF DESIGN: MANUFACTURER AND MODEL NO.	REMARKS	
			MIN.	MAX.	INLET	DOWNSTREAM	DISCHARGE	RADIATED	CAPACITY (MBH)	EAT (DEG F)	LAT (DEG F)	GPM	EWT (DEG F)				LWT (DEG F)
VAV-1	BASEMENT	9 7/8"	500	1,000	0.75	0.5	-	-	16.2	55	85	1.1	160	130	250	DAIKIN MQTH510	SEE NOTES
VAV-2	BASEMENT	9 7/8"	500	1,000	0.75	0.5	-	-	16.2	55	85	1.1	160	130	250	DAIKIN MQTH510	SEE NOTES
VAV-3	BASEMENT	13 7/8"	875	1,750	0.75	0.5	-	-	28.4	55	85	1.9	160	130	250	DAIKIN MQTH510	SEE NOTES
VAV-4	BASEMENT	5 7/8"	300	600	0.75	0.5	-	-	9.7	55	85	0.6	160	130	250	DAIKIN MQTH514	SEE NOTES

- NOTES:
1. PROVIDE VAV BOXES WITH PRSSURE INDEPENDENT CONTROLS.
2. PROVIDE VAV BOS WITH 1/2" CLOSED CELL FOAM INTERNAL LINER
3. INLET PRESSURE PROVIDED FOR DISCHARGE AND RADIATED NOISE CALCULATIONS.

AIR SEPERATOR SCHEDULE								
UNIT NO.	LOCATION	SERVICE	DESIGN FLOW (CFM)	MAX PD (INWG)	WORKING PRESS. (PSIG)	OPER. WEIGHT (LBS.)	BASIS OF DESIGN: MANUFACTURER & MODEL NO.	REMARKS
AS-1	MER	HW	30	2	150	100	ARMSTRONG VDT200	-

EXPANSION TANK SCHEDULE												
UNIT NO.	LOCATION	SERVICE	SYSTEM TYPE	ACTUAL VOLUME (GAL.)	ACCEPT. VOLUME (GAL.)	HEIGHT (FT.-IN.)	DIAMETER (FT.-IN.)	WORKING PRESS. (PSIG)	SYSTEM OPER. TEMP.(F)	OPER. WEIGHT (LBS.)	BASIS OF DESIGN: MANUFACTURER & MODEL NO.	REMARKS
ET-1	MER	HW	DIAPHRAGM	53	53	38"	24"	150	150	500	ARMSTRONG A-200L	SEE NOTES

- NOTES:
1. PROVIDE MINIMUM 12 PSIG PRECHARGE. FIELD ADJUST FOR SYSTEM NEEDS.

UNIT HEATER SCHEDULE																
UNIT NO.	LOCATION	SERVICE	SYSTEM TYPE	AIRFLOW (CFM)	HEATING COIL						MHP	VPHHZ	OPER. UNIT WEIGHT (LBS)	BASIS OF DESIGN: MANUFACTURER AND MODEL NO.	REMARKS	
					MBH	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	GPM						MAX PD (FTHD)
CUH-1	LOWER LEVEL	VESTIBULE 004	VERTICAL	200	24	50	90	160	110	1.0	5.0	1.0 FLA	1201/80	150	RITTLING RW	SEE NOTES
CUH-2	LOWER LEVEL	ELEC RM 005-2	VERTICAL	200	24	50	90	160	110	1.0	5.0	1.0 FLA	1201/80	150	RITTLING RW	SEE NOTES
CUH-3	LOWER LEVEL	TLT RM 016	VERTICAL	200	24	50	90	160	110	1.0	5.0	1.0 FLA	1201/80	150	RITTLING RW	SEE NOTES
CUH-4	LOWER LEVEL	TLT RM 007	VERTICAL	200	24	50	90	160	110	1.0	5.0	1.0 FLA	1201/80	150	RITTLING RW	SEE NOTES

- NOTES:
1. PROVIDE UNITS WITH COIL CONNECTION KITS.
2. PROVIDE UNITS WITH INTEGRAL CONTROLS.

REVISIONS

DATE	ISSUE	DESCRIPTION
08/29/22	1	ISSUE FOR BID
08/07/22	0	ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR

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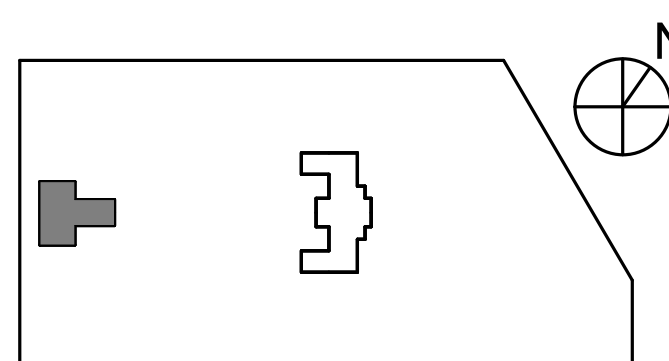
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PROJECT TITLE

**KINGESSING BUILDING
AND SITE
IMPROVEMENTS**

KEY PLAN



DRAWING TITLE

MECHANICAL SCHEDULES

PROJECT NO.

DRAWING NO.

KLMLX21003

M-501-L

DATE

08/07/2022

SCALE

AS NOTED

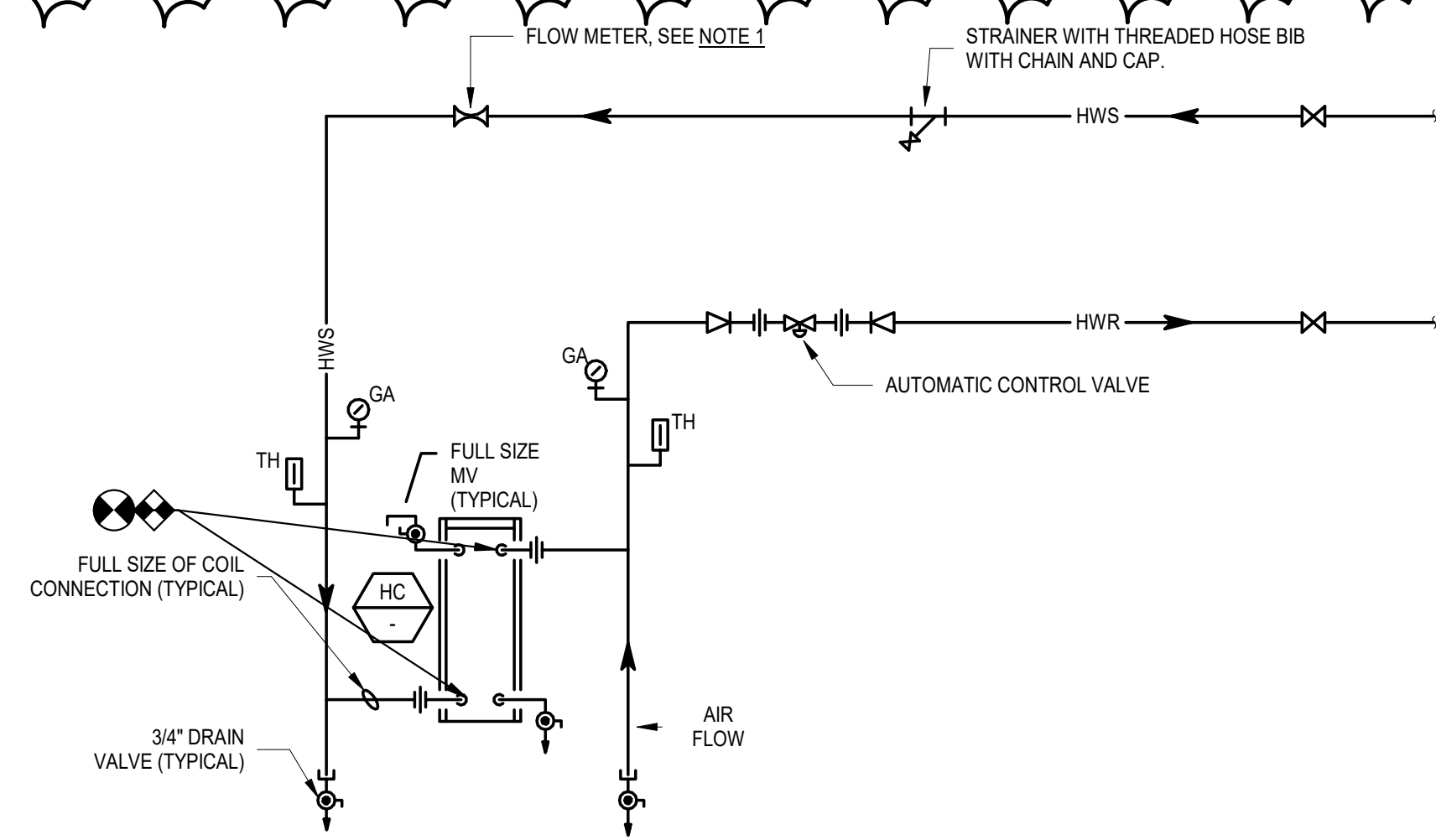
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Author

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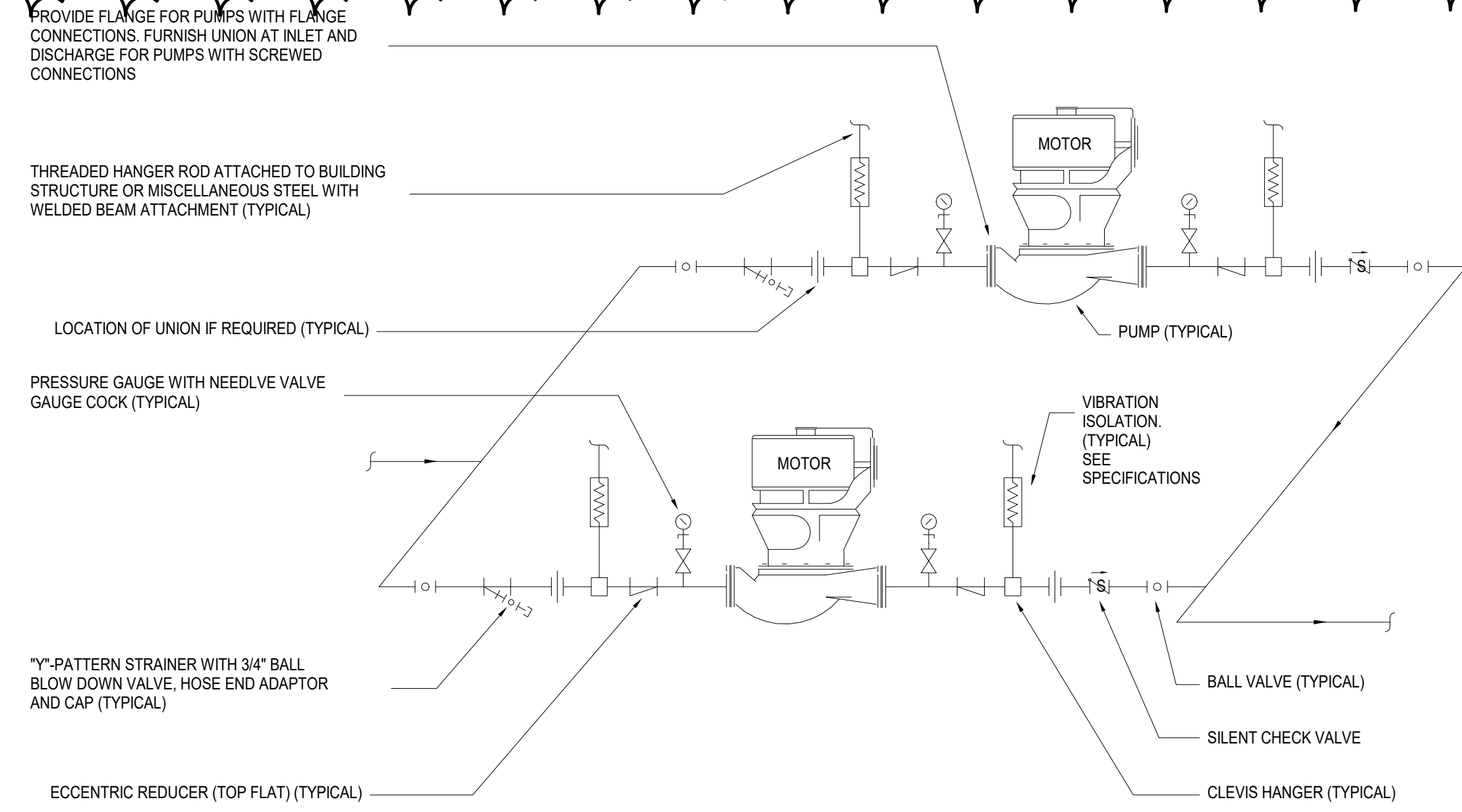
Approver

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE WRITTEN BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

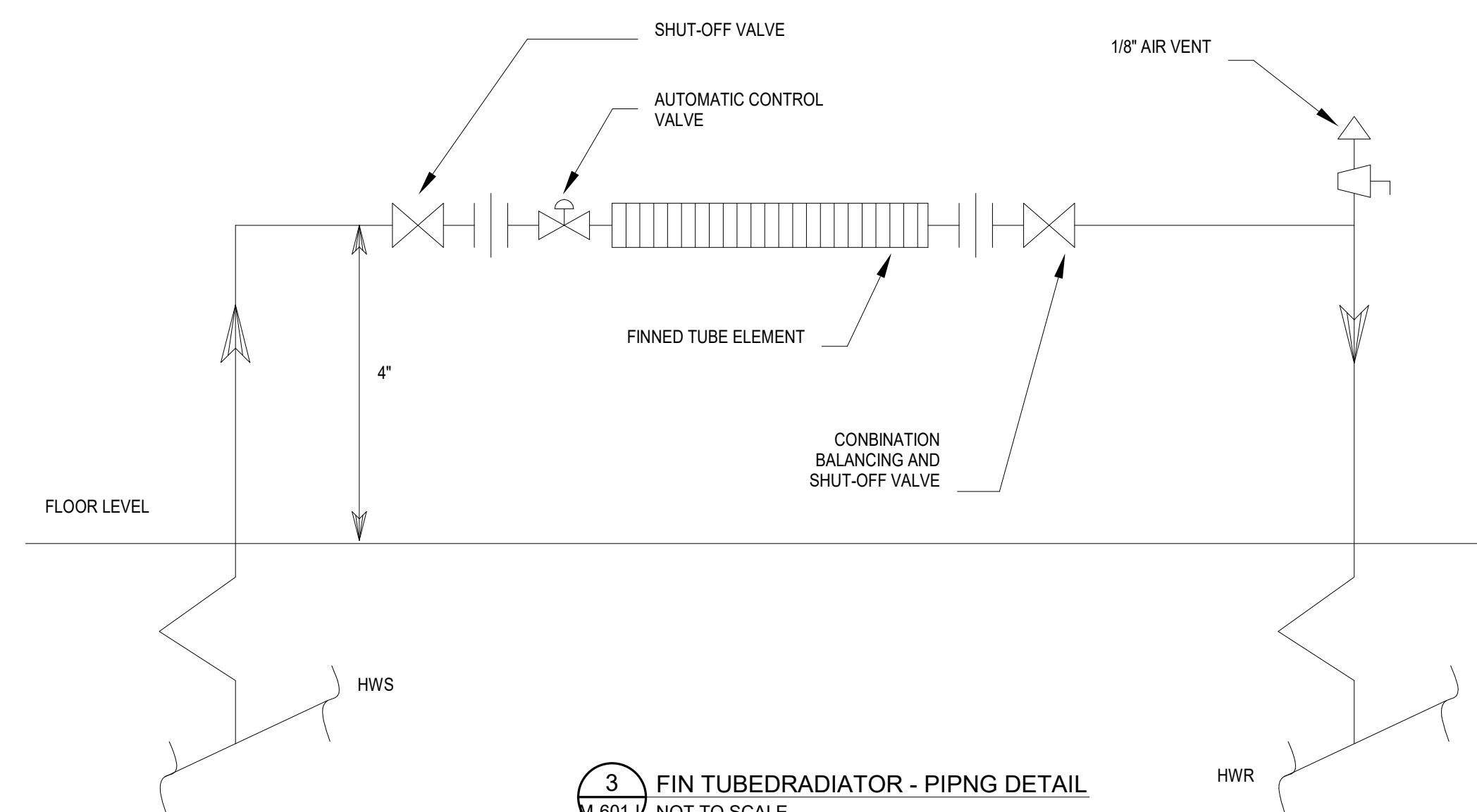


1 HOT WATER COIL PIPING DETAIL
M-601-L NOT TO SCALE

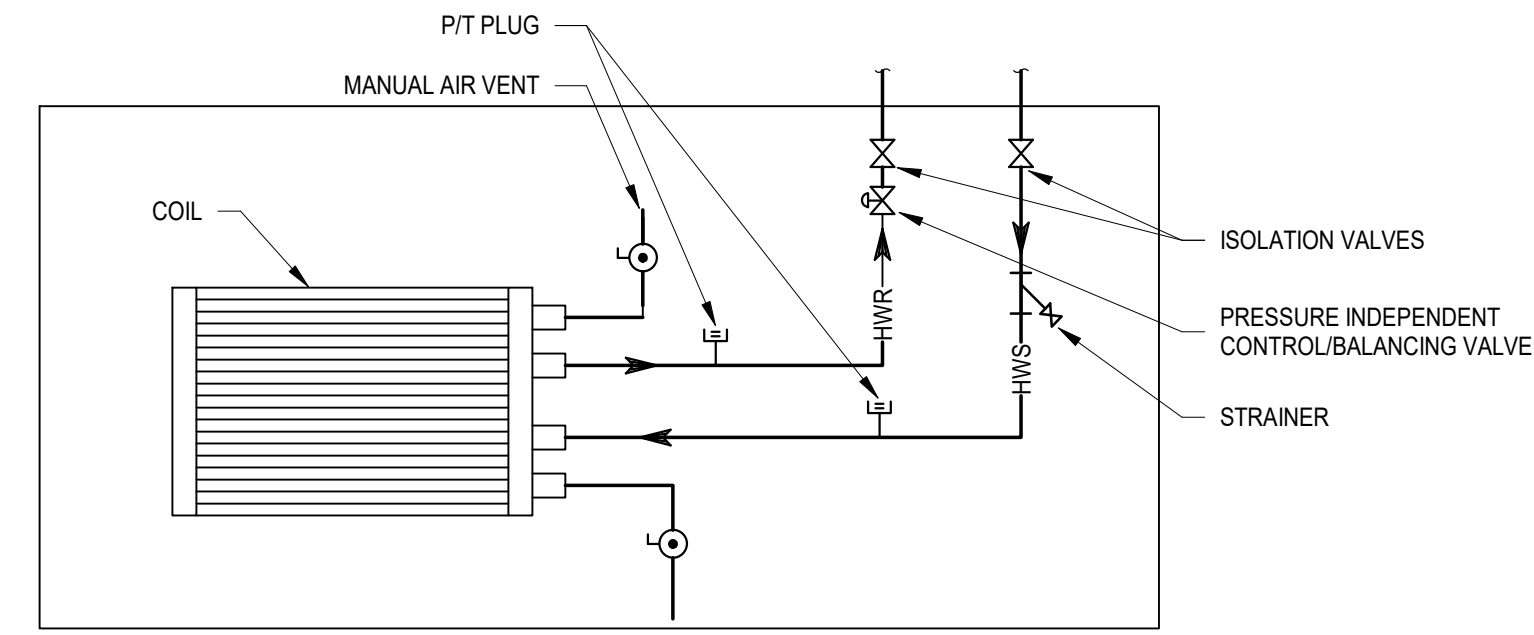
- NOTES:
- REFER TO VALVE SPECIFICATION AND PIPE SCHEDULES FOR MATERIALS AS VALVE TYPES.
 - INSTALL BALANCING VALVE WITH INLET AND OUTLET STRAIGHT PIPE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
 - INSTALL PIPING COUNTER FLOW TO AIRFLOW.



2 IN-LINE PUMPS, IN PARALLEL HORIZONTAL, SUSPENDED INSTALLATION
M-601-L 12" = 1'-0"

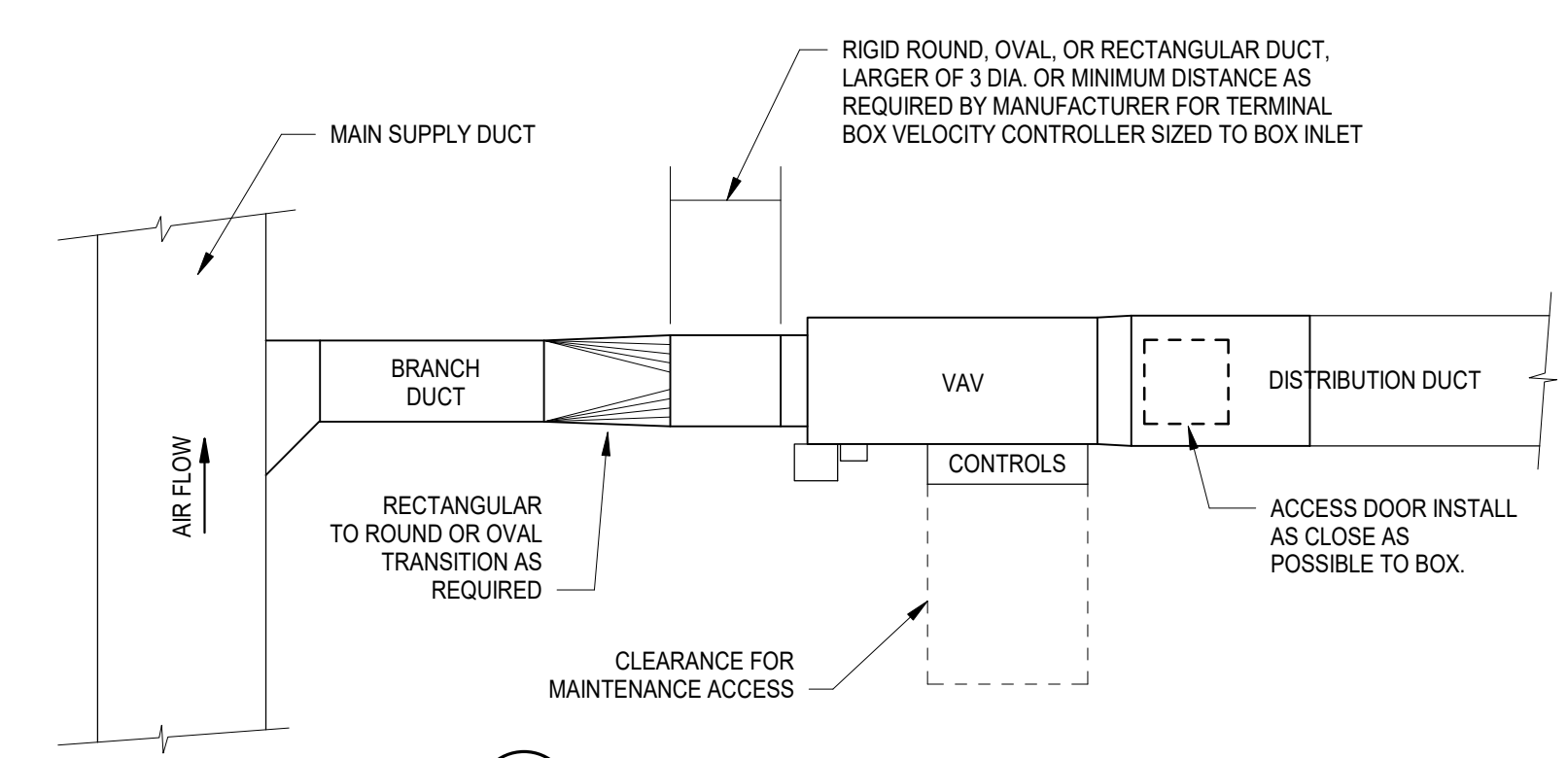


3 FIN TUBE RADIATOR - PIPING DETAIL
M-601-L NOT TO SCALE



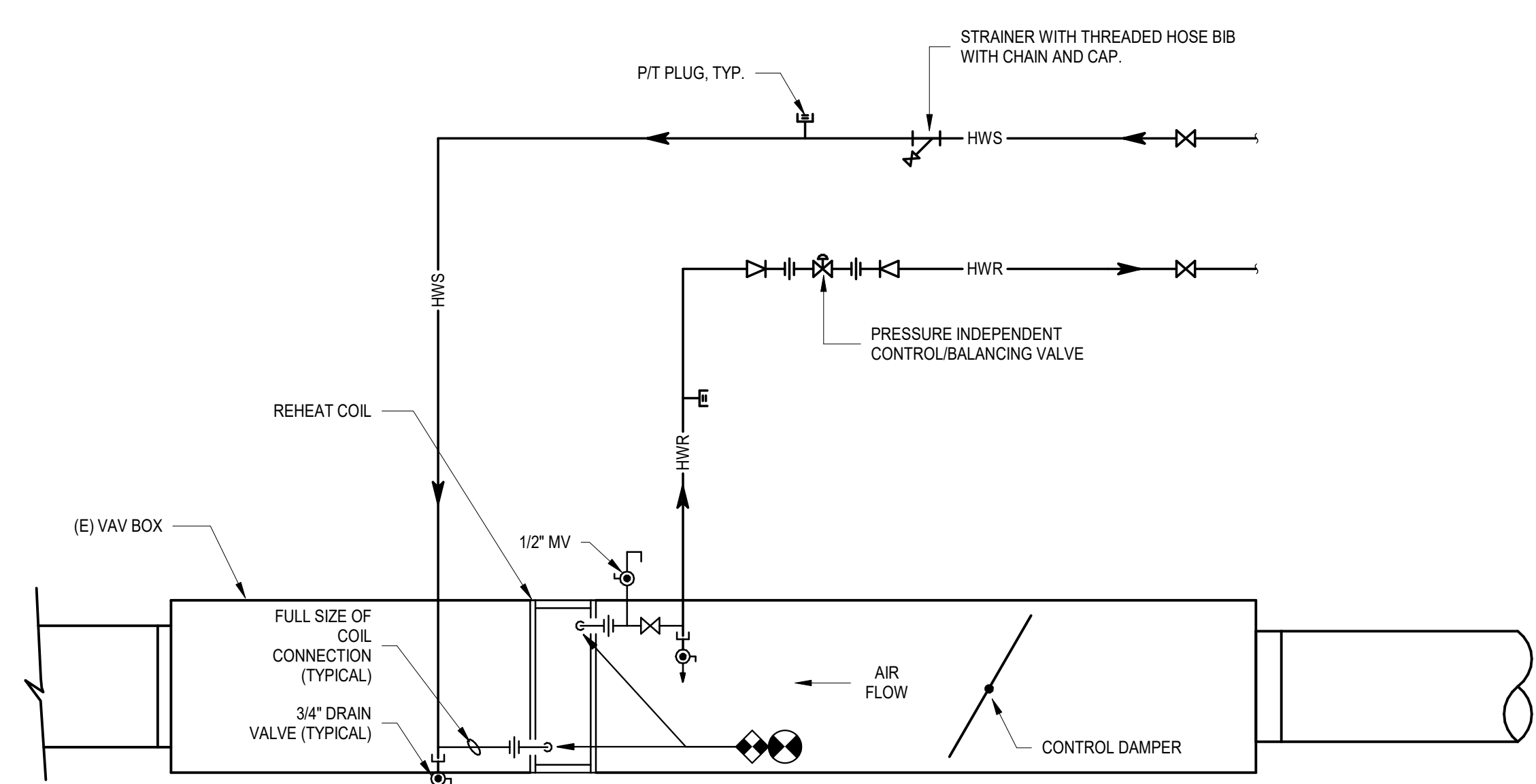
4 CABINET UNIT HEATER PIPING DETAIL
M-601-L NOT TO SCALE

- NOTES:
- REFER TO VALVE SPECIFICATION AND PIPE SCHEDULES FOR MATERIALS AS VALVE TYPES.
 - INSTALL BALANCING VALVE WITH INLET AND OUTLET STRAIGHT PIPE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
 - INSTALL PIPING COUNTER FLOW TO AIRFLOW.



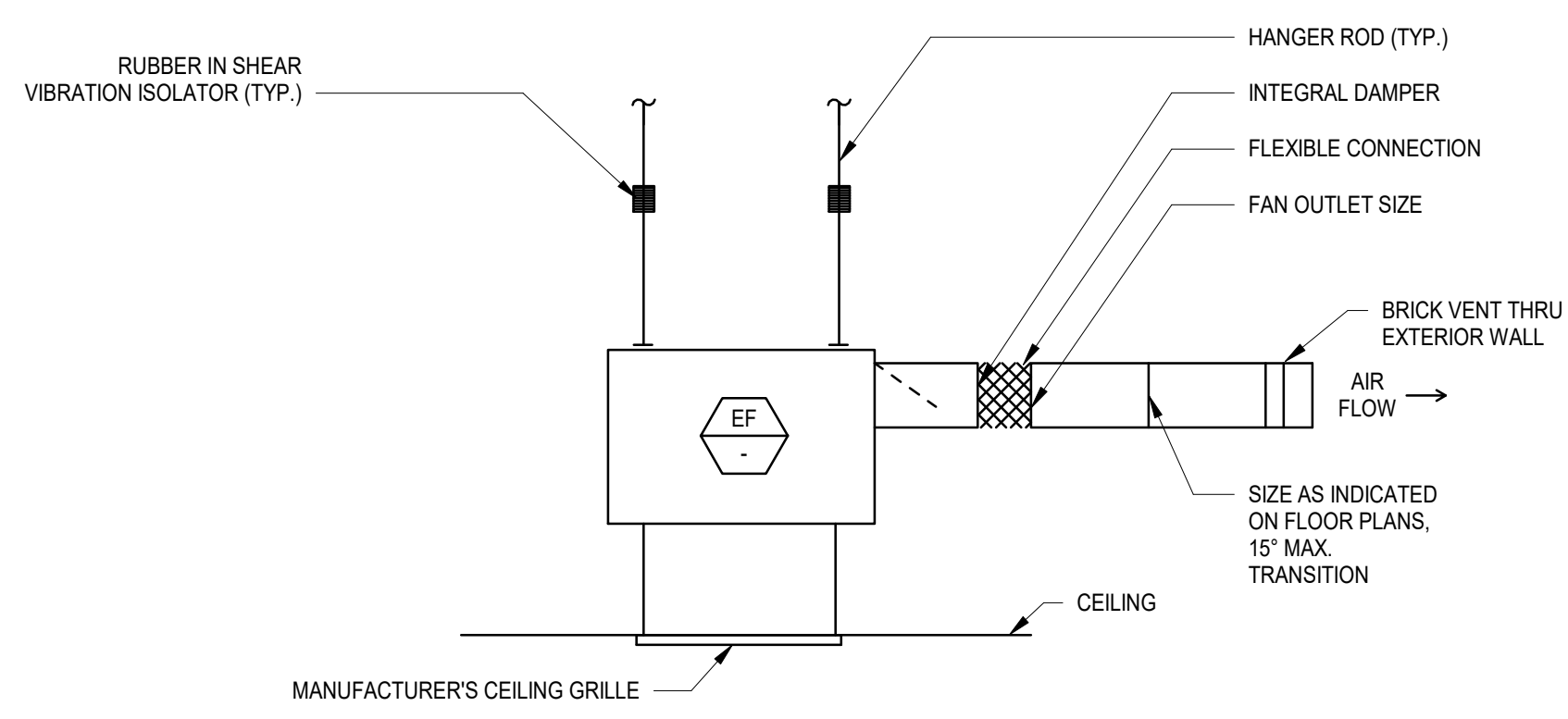
5 VAV BOX DUCT CONNECTION DETAIL
M-601-L NOT TO SCALE

- NOTE:
- PROVIDE INTERNAL LINER 15'-0" DOWNSTREAM OF VAV DISCHARGE. INTERNAL LINER SHALL BE SIMILAR TO CERTAINTEE TOUGHGARD.

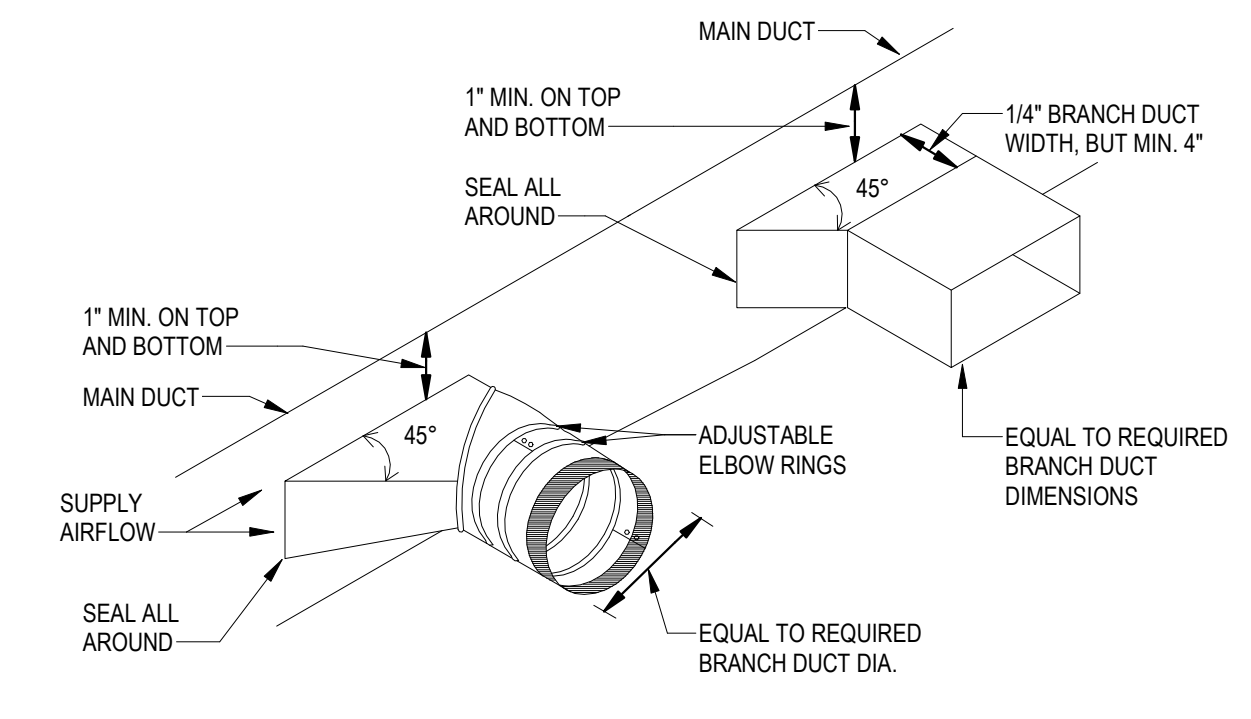


6 VAV COIL PIPING DETAIL
M-601-L NOT TO SCALE

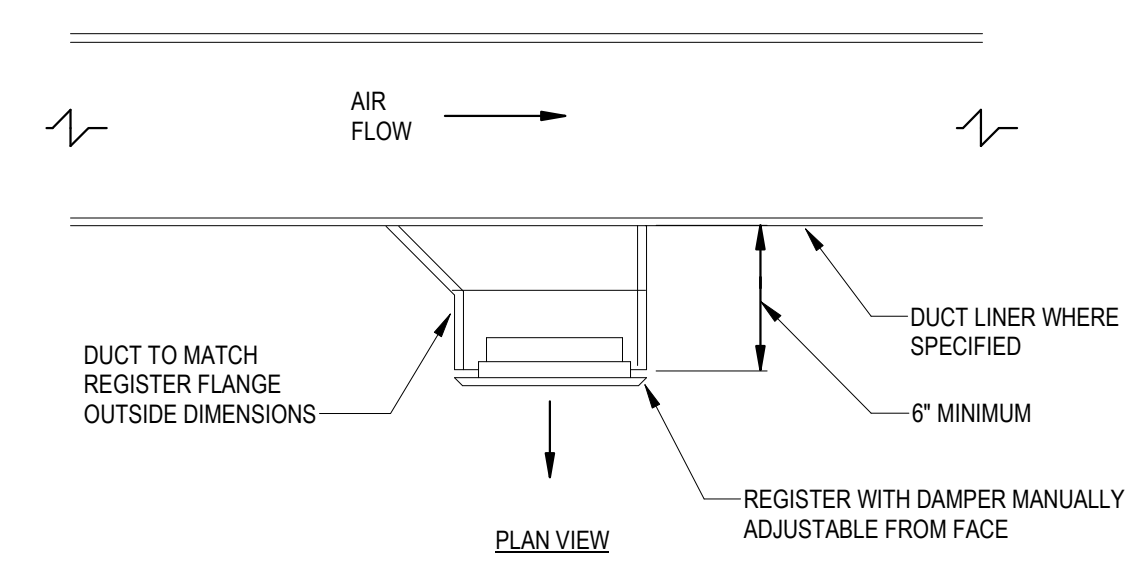
- NOTES:
- REFER TO VALVE SPECIFICATION AND PIPE SCHEDULES FOR MATERIALS AS VALVE TYPES.
 - INSTALL BALANCING VALVE WITH INLET AND OUTLET STRAIGHT PIPE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
 - INSTALL PIPING COUNTER FLOW TO AIRFLOW.



7 CEILING MOUNTED FAN
M-601-L NOT TO SCALE



8 TYPICAL BRANCH TAKEOFF FITTING DETAIL
M-601-L NOT TO SCALE



9 TYPICAL DUCT MOUNTED REGISTER (RECTANGULAR DUCT)
M-601-L NOT TO SCALE

REVISIONS		
DATE	ISSUE	DESCRIPTION
08/29/22	1	ISSUE FOR BID
08/07/22	0	ISSUE FOR BID



REVIEWED BY:
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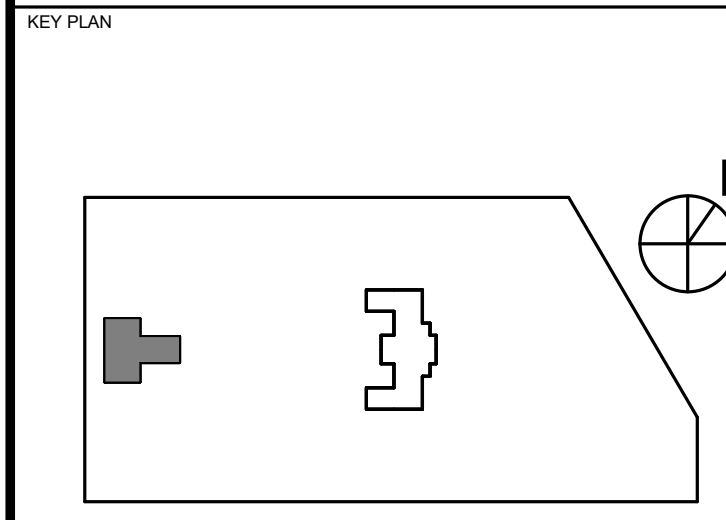
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PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS



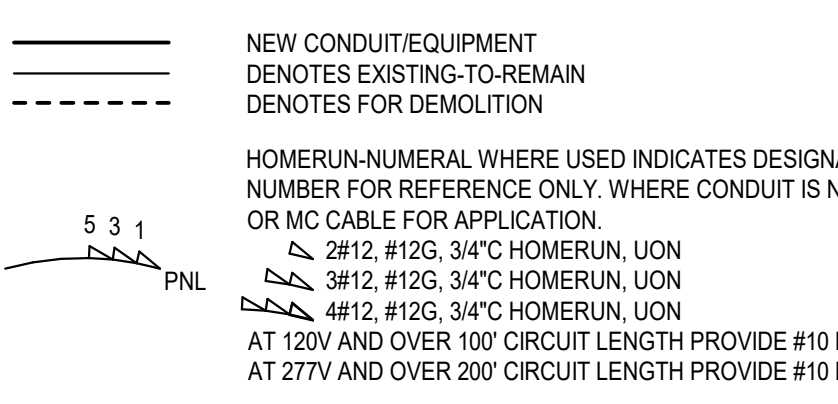
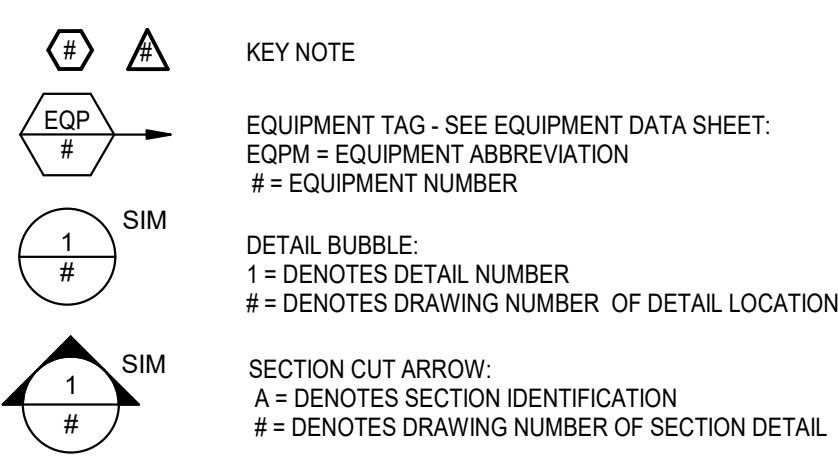
DRAWING TITLE
MECHANICAL DETAILS

PROJECT NO. KMLX21003	DRAWING NO. M-601-L
DATE 09/07/2022	SCALE AS NOTED
DRAWN BY: Author	CHECKED BY: Approver

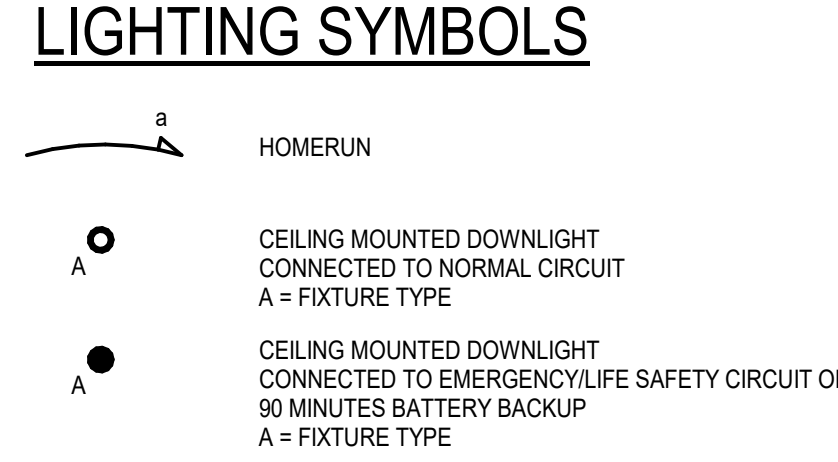
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

GENERAL SYMBOLS

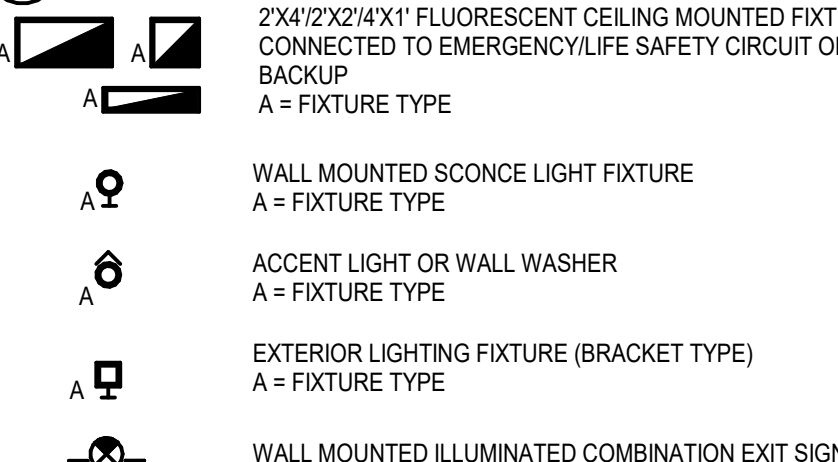
(NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT)



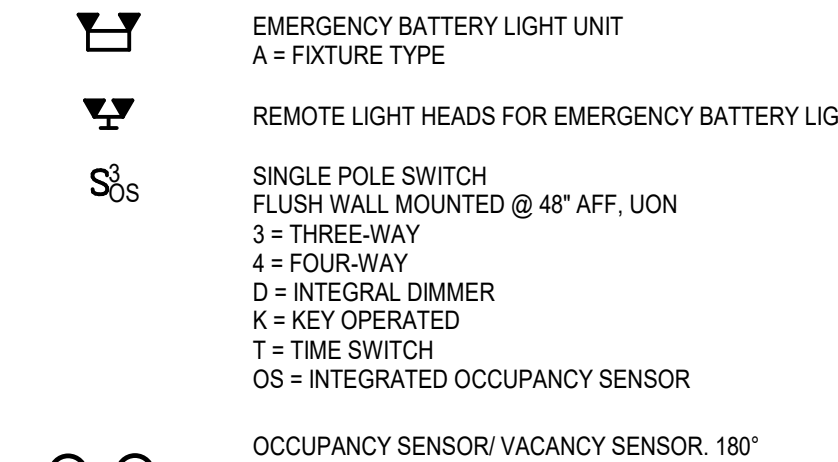
POWER SYMBOLS



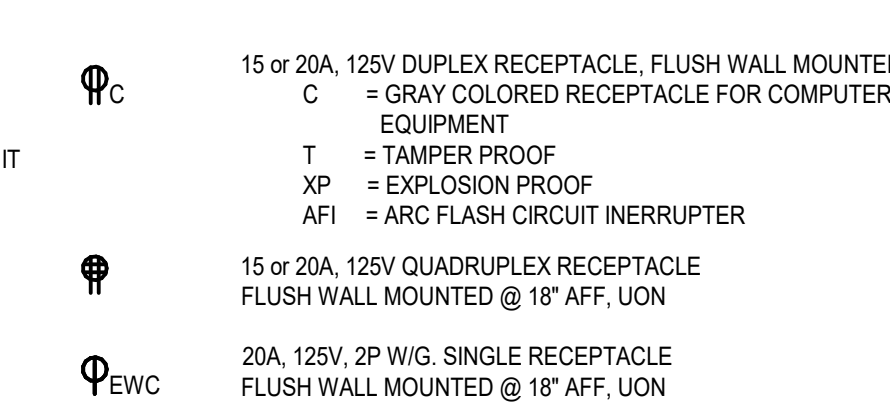
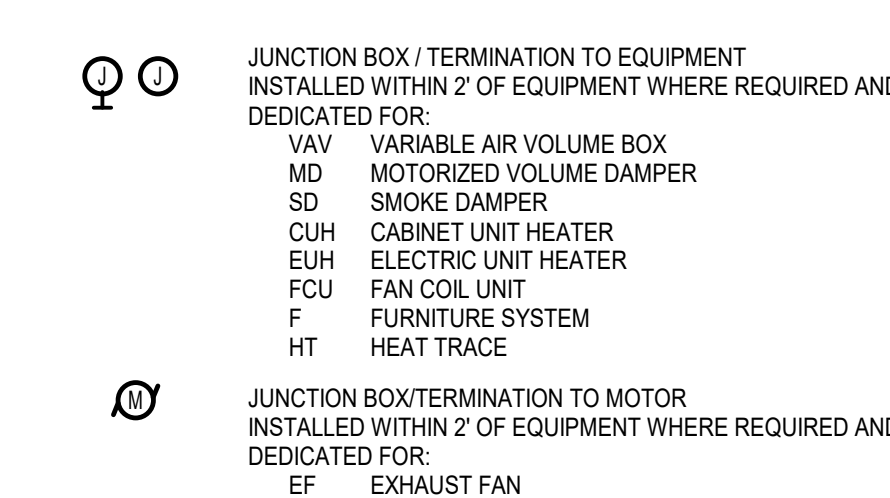
LIGHTING SYMBOLS



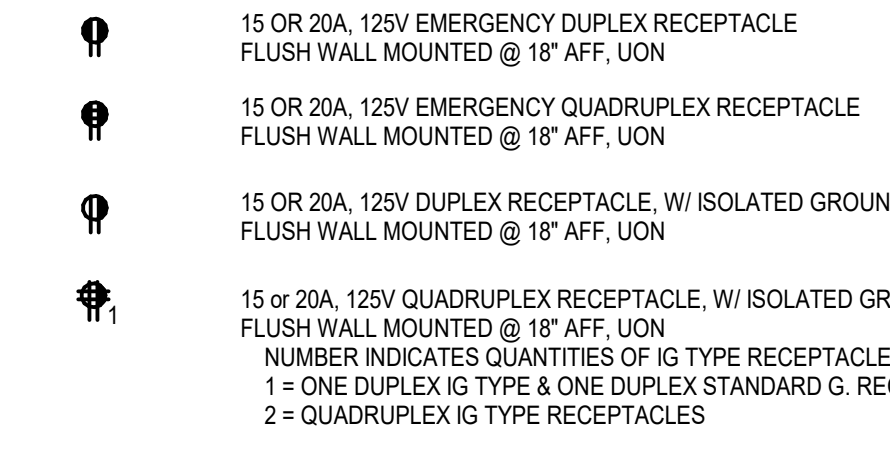
ABBREVIATIONS



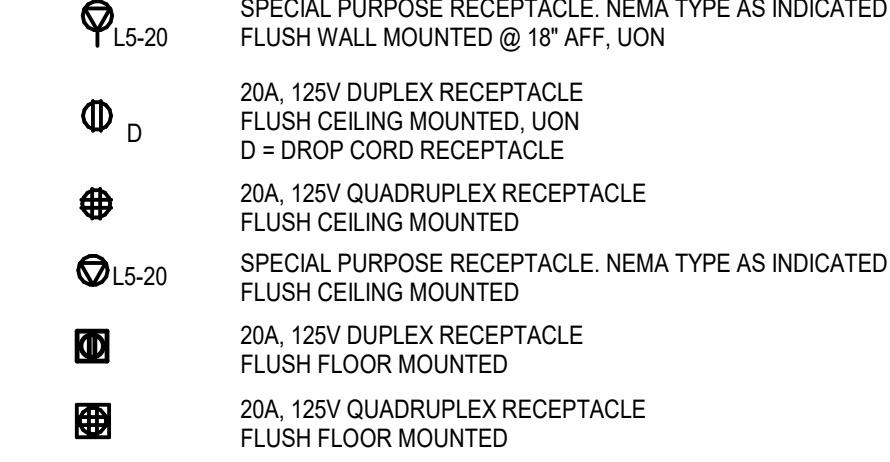
SINGLE LINE SYMBOLS



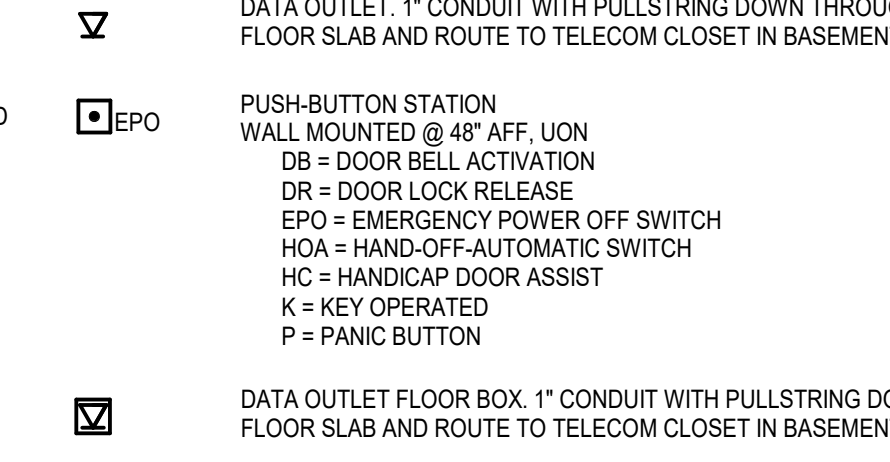
GENERAL NOTES



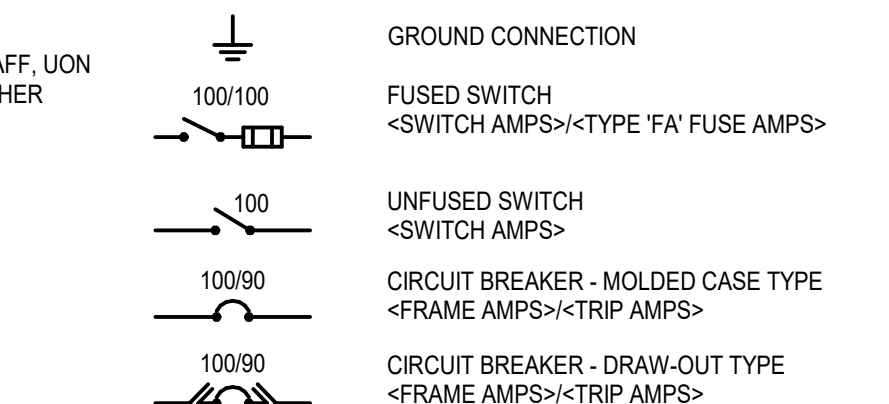
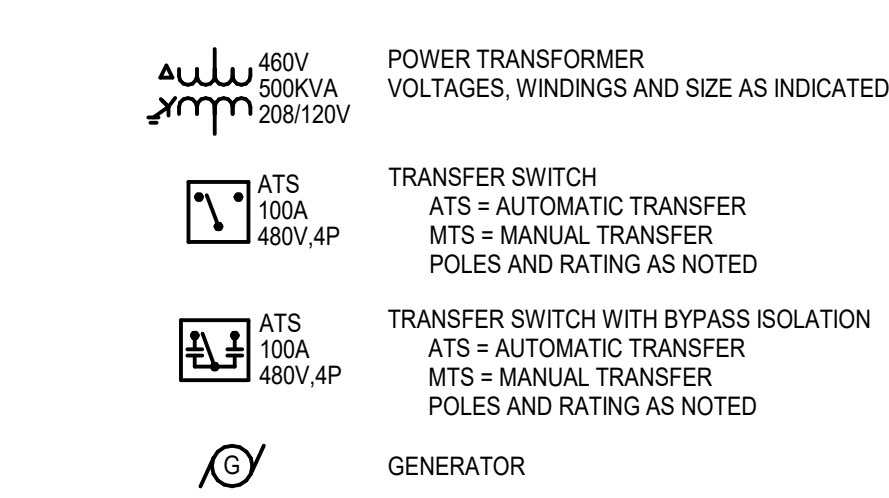
DEMOLITION NOTES



GENERAL ELECTRICAL NOTES



GENERAL NOTES



SPECIFICATIONS

1. GENERAL

- A. THE "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION," AS DOCUMENT A201, LATEST EDITION, AND THESE SPECIFICATIONS AS AN ADDENDUM ARE PART OF THIS CONTRACT.
- B. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIAL WHICH VIOLATES ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.
- C. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHERE NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN FROM BUILDING OWNER AND TENANT AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.
- D. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES, WHICH INVOLVE EXTRA COST, SHALL NOT BE MADE WITHOUT APPROVAL.
- E. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PAVEMENTS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE STORED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.
- F. PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THE BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF CONDUIT AND EQUIPMENT. PROVIDE EQUIPMENT CURBS AS REQUIRED.
- G. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PRECEDATED ON THE BASIS OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, THE CONTRACTOR SHALL INSTALL WORK DURING OVERTIME HOURS AND THE ADDITIONAL COST THEREOF SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.
- H. UNLESS OTHERWISE SPECIFICALLY NOTED OR SPECIFIED, INCLUDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, PARTITIONS AND OTHER MATERIALS IN THE EXISTING BUILDING. THE CONTRACTOR SHALL RESTORE THESE AREAS TO ORIGINAL CONDITION.
- I. ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.
- J. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF THE EXISTING BUILDING, EQUIPMENT, ETC., WHICH AFFECT THIS WORK, AND THE ACCESS TO SUCH SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. THE CONTRACTOR WILL BE CONSIDERED TO INDICATE ANY DISCREPANCIES BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS PRIOR TO SUBMITTAL OF BID. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION. THE ON-SITE INSPECTION SHALL VERIFY EXISTING CONDUIT (SIZES, CLEARANCES, ETC.) AND CONDITIONS.
- K. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD-HARMLESS CLAUSE FOR OWNER AND ENGINEER.
- L. ANY AND ALL EXPENSES INCURRED BY THESE EQUIPMENT MANUFACTURERS' REPRESENTATIVES RELATED TO THIS PROJECT, SHALL BE BORNE BY THE ELECTRICAL CONTRACTOR.
- M. THE FINAL ACCEPTANCE SHALL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, TESTED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.
2. SCOPE OF WORK
- A. SCOPE OF WORK SHALL CONSIST OF PROVIDING LABOR, MATERIALS, EQUIPMENT, SERVICES AND FEES NECESSARY FOR COMPLETE AND SAFE INSTALLATION IN CONFORMITY WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL OTHER APPLICABLE INDUSTRY, NATIONAL AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.
- B. ALL DRAWINGS, PLANS, DETAILS, SPECIFICATIONS AND SPECIFICATION ADDENDA ARE MADE PART OF THIS CONTRACT AND SHALL APPLY TO ALL WORK UNDER THE CONTRACT UNLESS OTHERWISE AMENDED, MODIFIED, SUPPLEMENTED OR SPECIFIED HEREIN.
- C. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OF ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES BY OWNER INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.
- D. THE CONTRACTOR SHALL ARRANGE FOR INSPECTION AND TESTS OF ANY OR ALL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.
3. SHOP DRAWINGS
- A. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT, CONTRACTOR SHALL PROVIDE COMPLETE SETS OF COORDINATED SHOP DRAWINGS OF ALL NEW AND EXISTING EQUIPMENT, INDICATING CAPACITY, DIMENSIONS AND SEQUENCE OF OPERATION FOR WRITTEN APPROVAL BY THE ARCHITECT AND ENGINEER.
- B. INDICATE ON EACH SHOP DRAWINGS SUBMITTED:
- PROJECT NAME AND LOCATION
 - NAME OF ARCHITECT AND ENGINEER
 - ITEM IDENTIFICATION
 - APPROVAL STAMP OF PRIME CONTRACTOR
- C. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:
- SWITCHES
 - FUSES
 - CIRCUIT BREAKERS
 - PANELBOARDS (INCLUDING DIMENSIONS, SCHEDULES, AND CATALOG CUTS)
 - TRANSFORMERS
 - WIRINGWAYS
 - WIRE AND CABLE
 - WALL SWITCHES
 - INSERTION RECEPTACLES
 - MOMENTARY CONTACT SWITCHES
 - TIME SWITCHES
 - TRANSFER SWITCHES
 - SURFACE METAL RACEWAY
 - LIGHTING FIXTURES
- D. AS-BUILT DRAWINGS AND EQUIPMENT OPERATIONAL INSTRUCTIONS
- A. UPON COMPLETION AND ACCEPTANCE OF WORK, CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS AND EQUIPMENT MANUALS AND DEMONSTRATE TO THE OWNER THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT.
- B. THESE INSTRUCTIONS SHALL BE TYPED ON 8 1/2" X 11" PAPER AND BOUND IN THREE RING BINDERS WITH CLEAR ACETATE COVERS. CONTRACTOR SHALL GIVE THREE COPIES OF THE INSTRUCTIONS TO THE OWNER AND ONE COPY TO THE ENGINEER.
- C. THE INSTRUCTION BOOKLET SHALL BEAR THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE PROJECT, ARCHITECT AND ENGINEER.
- D. REPRODUCE ALL "AS-BUILT" DRAWINGS SHALL BE PREPARED IN THE FORM OF RED LINE MARKUPS.

2. GENERAL PROVISIONS FOR ELECTRICAL WORK

- A. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES, WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," "SHALL BE," "FURNISH," "PROVIDE," "A," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.
- B. DEFINITIONS
- "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED.
 - "INSTALL": TO ERECT, MOUNT AND CONNECT COMPLETE WITH RELATED ACCESSORIES.
 - "FURNISH" OR "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES.
 - "WORK": LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION.
 - "WIRING": RACEWAY, FITTINGS, WIRE, BOXES AND RELATED ITEMS.
 - "CONCEALED": EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS, IN TRENCHES, IN CRAWL SPACES, OR IN ENCLOSURES.
 - "EXPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE.
 - "SIMILAR" OR "EQUAL": EQUAL IN MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.
- C. GENERAL
- PANEL, JUNCTION AND PULL BOXES SHALL BE LOCATED CLEAR OF OTHER TRADES. SUPPORT BOXES FROM BUILDING STRUCTURE, INDEPENDENT OF CONDUIT. FLOOR-TO-CEILING CHANNELS FOR MOUNTING ON DRYWALL AND LIGHTWEIGHT CONSTRUCTION. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILINGS SHALL BE CONCEALED. CONCEALED CHANNELS CREATED BY REMOVAL OF FIXTURE. SECURE TO BLACK IRON SUPPORT. MOTOR TERMINAL BOXES: COORDINATE WITH MOTOR BRANCH CIRCUIT AND WIRING; ADD BOX VOLUME WHERE REQUIRED.
 - THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EQUIPMENT WITH ARCHITECTURAL DRAWINGS. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS. ALLOW FOR OVERHEAD PIPES, DUCTS, AND MECHANICAL EQUIPMENT. VERIFY LOCATIONS THROUGH HUNG AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS, AND THE LIKE, AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSES TO THE OWNER.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL WIRING FOR EQUIPMENT FURNISHED BY OTHERS, AS SHOWN ON DRAWINGS. COORDINATE WITH ALL OTHER TRADES OR DETAILS FOR INSTALLATION. THE TERM "WIRING" AS USED HEREIN, INCLUDES BUT IS NOT LIMITED TO, FURNISHING AND INSTALLING CONDUIT, WIRE, JUNCTION BOXES, DISCONNECTS AND MAKING CONNECTIONS. CONTRACTOR SHALL CHECK ALL MECHANICAL, MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT TO BE INSTALLED BY OTHERS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER WIRING AND NECESSARY ELECTRICAL ADJUSTMENTS TO EQUIPMENT TO CONFORM TO SPECIFIED REQUIREMENTS OF THE EQUIPMENT.
 - QUALITY ASSURANCE
 - QUALITY AND GAUGE OF MATERIALS: NEW, BEST OF THEIR RESPECTIVE KINDS, FREE FROM DEFECTS AND LISTED BY UNDERWRITERS LABORATORIES, INC. OR OTHER NATIONALLY APPROVED TESTING AGENCY, AND BEARING APPROVED MATERIALS AND EQUIPMENT OF SIMILAR APPLICATION SHALL BE OF SAME MANUFACTURER, EXCEPT AS NOTED.
 - ON COMPLETION OF THE WORK, THE ENTIRE WIRING SYSTEM SHALL BE ENTIRELY FREE FROM GROUNDS, SHORT CIRCUITS, OPENS, OVERLOADS AND IMPROPER VOLTAGES. THROUGHOUT TEST SHALL BE MADE. FURNISH ALL LABOR AND MATERIALS AND INSTRUMENTS.
 - GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.
- D. PRODUCT DELIVERY, STORAGE AND HANDLING
- MOVING OF EQUIPMENT: WHERE NECESSARY, SHIP IN CARTED SECTIONS OF SIZE TO PERMIT PASSING THROUGH AVAILABLE SPACES.
- F. MATERIALS
- NAMEPLATES: PROVIDE BLACK LAMICOID SHEET WITH 3/4" WHITE LETTERING, FASTENED WITH EPOXY CEMENT FOR EACH DISCONNECT SWITCH, CIRCUIT BREAKER, PANEL, CABINET, TRANSFORMER, ENCLOSURE, MOTOR CONTROLLER AND THE LIKE. NAMEPLATES SHALL DESCRIBE THE NAME AND NUMBER OF EACH COMPONENT.
 - CABLE TAGS: TAG EACH CONDUCTOR PASSING THROUGH SPLICE OR PULL BOX WITH A WHITE TAG, INDICATING POINT OF ORIGIN AND TERMINATION OF THE CIRCUIT.
 - INSERTS AND SUPPORTS
 - INSERTS: STEEL, SLOTTED TYPE, FACTORY PAINTED.
 - SINGLE ROD: SIMILAR TO GRINNELL FIG. 281.
 - MULTI-ROD: SIMILAR TO FEEE AND MASON SERIES 9000 WITH END CAPS AND CLOSURE STRIPS.
 - CLIP FORM NAILS FLUSH WITH SURFACES.
 - MAXIMUM LOADING 75% OF RATING.
 - SUPPORTS FROM BUILDING CONSTRUCTION: INSERTS, BEAM CLAMPS, STEEL FISHPAILS (IN CONCRETE FILL ONLY), CANTILEVER BRACKETS OR OTHER MEANS, SUBMIT FOR REVIEW. - GROUPED LINES AND SERVICES: TRAPEZE HANGERS OF BOLTED ANGLES OR CHANNELS.
 - WHERE BUILDING CONSTRUCTION IS INADEQUATE: PROVIDE ADDITIONAL FRAMING. SUBMIT FOR REVIEW.
- G. PAINT SHALL BE THE BEST GRADE FOR ITS PURPOSE. DELIVER IN ORIGINAL SEALED CONTAINERS AND APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. COLORS SHALL BE AS SELECTED BY ARCHITECT OR ENGINEER. UTILIZE GALVANIZED IRON PRIMER ON PANEL AND PULL BOXES. AFTER FABRICATION, UTILIZE HOT DIPPED GALVANIZED OR DIPPED IN ZINC CHROMATE FOR: OUTLET BOXES, JUNCTION BOXES, CONDUIT HANGERS, RODS, INSERTS AND SUPPORTS, RED LEAD OR ZINC CHROMATE WITH FINISH TO MATCH SURROUNDINGS SHALL BE USED FOR MARKED SURFACES OF STEEL EQUIPMENT AND RACEWAYS. A FIELD-APPLIED ZINC CHROMATE PRIMER COAT SHALL BE UTILIZED FOR STEEL OR IRONWORK.
- H. BRUSH AND CLEAN WORK PRIOR TO CONCEALING, PAINTING AND ACCEPTANCE. PAINTED EXPOSED WORK SOILED OR DAMAGED, CLEAN AND REPAIR TO MATCH ADJOINING WORK BEFORE FINAL ACCEPTANCE. REMOVE DEBRIS FROM INSIDE AND OUTSIDE OF MATERIAL AND EQUIPMENT.
- I. LOW-VOLTAGE DISTRIBUTION EQUIPMENT
- ALL EQUIPMENT SHALL CONFORM TO NEMA, ANSI AND IEEE
 - DISCONNECT SWITCHES SHALL BE FUSED OR NON-FUSED AS NOTED. VOLTAGE SHALL BE AS REQUIRED. SWITCHES SHALL BE HEAVY DUTY, EXCEPT AS NOTED, AND HORSEPOWER RATED FOR MOTOR LOADS. TOGGLE TYPE SWITCHES SHALL BE NON-FUSED, LOAD BREAK, HAVING MAXIMUM RATINGS OF 20A AT 60V AND 30A AT 240V. THROUGH POLE SWITCHES SHALL BE SIMILAR TO EATON ARROW HART #808F. THREE-POLE SWITCHES SHALL BE SIMILAR TO EATON ARROW HART #7810F.
 - KNIFE-BLADE TYPE SWITCHES SHALL BE LOAD BREAK, QUICK-MAKE-QUICK-BREAK, UL CLASS R UP TO 60A, MAXIMUM RATING EXCEPT AS NOTED SHALL BE 10A, AND MAXIMUM LENGTHS PROVIDED. SWITCHES SHALL BE SIMILAR TO GENERAL ELECTRIC QMR. ALL SWITCH ENCLOSURES SHALL BE DEAD FRONT, NEMA TYPE 1, EXCEPT AS NOTED.
 - FUSES: DUAL ELEMENT FUSES FOR MOTOR LOADS SHALL BE TIME DELAY HAVING A MAXIMUM RATINGS OF 600A AT REQUIRED VOLTAGE. 200AIC FUSES SHALL BE SIMILAR TO LITMTRON FUSETRON FRN OR FR5 (UL CLASS R). CURRENT LIMITING FUSES SHALL BE UTILIZED FOR OTHER LOADS. 200AIC FUSES SHALL BE SIMILAR TO LITMTRON FR5, OR KTU (UL CLASS R UP TO 60A, CLASS I OVER 60A). ALL FUSES SHALL BE PROVIDED BY SAME MANUFACTURER. PROVIDE 1 SPARE MATCHING FUSE FOR EACH SET OF 3.

3. CIRCUIT BREAKERS, MOLDED CASE BREAKERS SHALL BE THERMAL-MAGNETIC, QUICK-MAKE-QUICK-BREAK, BOLT-ON TYPE, MANUALLY OPERATED WITH INSULATED TRIP-FREE HANDLE. MULTIPOLAR TYPE BREAKERS SHALL CONTAIN INTERNAL TRIP BAR. TERMINALS SHALL BE SUITABLE FOR COPPER OR ALUMINUM CABLE. FURNISH AUXILIARY DEVICES WHERE REQUIRED FOR SHUNT TRIPPING, OPEN AND CLOSE MOTOR OPERATOR AND SHUNT TRIPPING. ENCLOSURES SHALL BE DEAD FRONT, NEMA TYPE 1, AS NOTED. CIRCUIT BREAKERS TO BE INSTALLED IN ENCLOSED ALUMINUM RACKS, SHALL HAVE MANUFACTURER, TYPE AND A.I.C. RATINGS PRESENTLY IN USE, FRAMES, IC AND INTERCHANGEABLE TRIPS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:

- 120V, 100A FRAME: 10,000A, 1 POLE
 - 240V, 100A FRAME: 18,000A, 2 AND 3 POLES
 - 240V, 200A FRAME: 50,000A, 2 AND 3 POLES
 - 277V, 100A FRAME: 14,000A, 1 POLE
 - 480V, 100A FRAME: 20,00A, 2 AND 3 POLES
- E. DISTRIBUTION PANELS: SWITCHING UNITS SHALL BE 3 PHASE, 4 WIRE CIRCUIT BREAKER TYPE UNLESS OTHERWISE NOTED ON PANEL SCHEDULES. BUS BARS SHALL BE HARD DRAWN COPPER, MINIMUM 98% CONDUCTIVITY. SILVER OR TIN-PLATED JONTS. CABINETS SHALL BE GALVANIZED SHEET STEEL, BACK BOX, WITH DOOR AND TRIM AND LAPPED AND WELDED CORNERS. HARDWARE SHALL BE CHROME-PLATED WITH FLUSH LOCK/CLATCH HANDLE ASSEMBLY (UP TO 48" HIGH DOORS) OR VALLT HANDLE, LOCK AND SPOUT CATCH (LARGER THAN 48" HIGH DOORS). HINGES SHALL BE SEMI-CONCEALED, 5-KNUCKLE STEEL WITH NONFERROUS PINS, 180° OPENING, LOCATED A MAXIMUM 28" ON CENTERS. PROVIDE RIBBER CLAMPS AT EACH PANEL. GUTTER SPACES FOR LIGHTING PANELS SHALL BE 5/4" SIDES, TOP AND BOTTOM. DIRECTORY HOLDER SHALL BE METAL FRAME WITH CLEAR PLASTIC TRANSPARENT COVER. A TYPE TERMINAL LIST INDICATING FEEDER CABLE AND CONDUIT SIZE, CIRCUIT NUMBERS, OUTLETS SUPPLIED AND THEIR LOCATIONS SHALL BE PROVIDED.
- F. TRANSFORMERS SHALL BE OPEN-VENTILATED, DRY TYPE, CLASS H INSULATION, 115°C TEMPERATURE RISE AND WINDINGS SHALL BE COPPER. PRIMARY AND SECONDARY VOLTAGES SHALL BE NOTED. PRIMARY TAPS (6 - 2-1/2% TAPS, 2 ABOVE AND 4 BELOW RATED VOLTAGE) SHALL BE PROVIDED. ADJUST FOR REQUIRED VOLTAGE. PROVIDE K RATING AND SHIELDING AS SHOWN ON DRAWINGS.
- G. BALANCE THE LOAD OVER PHASES WHEN NEW CIRCUITS ARE ADDED TO NEW OR EXISTING PANELS. PROVIDE RIBBER CLAMPS AT EACH REQUIRED. DOUBLE LUGGING SHALL NOT BE PERMITTED. MOUNTING HEIGHT SHALL BE A MAXIMUM OF 6'-0" FROM FLOOR TO TOP SWITCH BRANCH CIRCUIT AND WIRING; ADD BOX VOLUME WHERE CIRCUITING IS CHANGED.
- H. TESTS: OPEN AND CLOSE LOAD BREAK SWITCHING DEVICES UNDER LOAD.
8. SURGE PROTECTION DEVICES
- THE INDIVIDUAL SURGE PROTECTION DEVICE (SPD) UNITS SHALL BE UL LISTED UNDER UL 1449 STANDARD FOR TRANSIENT VOLTAGE SURGE SUPPRESSIONS AND THE SURGE RATINGS AND SHORT CIRCUIT CAPACITY RATING SHALL BE PERMANENTLY AFFIXED TO THE COVER OF SPD. THE UNIT SHALL SHOW COMPLIANT LISTED TO UL 1283 STANDARD FOR EMI/RFI FILTERS.
 - SYSTEM DESCRIPTION
 - THE SPD/FILTER SHALL BE CONSTRUCTED USING MULTIPLE SURGE CURRENT DIVERSION ARRAYS OF METAL OXIDE VARISTORS (MOV), MATCHED TO 1% VARIANCE. THE ARRAY SHALL CONSIST OF MULTIPLE GAP-LESS METAL OXIDE VARISTORS, WITH EACH MOV INDIVIDUALLY FUSED. THE ARRAYS SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER, WHICH ENSURES MOV SURGE CURRENT SHARING. NO GAS TUBES, SILICON AVALANCHE DIODES OR SELENIUM PLATE RECTIFIERS SHALL BE USED. THE STATUS OF EACH ARRAY SHALL BE CONTINUOUSLY MONITORED AND A GREEN LED SHALL BE ILLUMINATED IF THE ARRAY IS IN FULL WORKING ORDER. ALL PROTECTION MOVING, INCLUDING N-G, SHALL BE CLOSELY MONITORED AND INTERNALLY FUSED, FOR COMPLIANCE TO NEC ARTICLE 110.9, 110.10 AND 280.22.
 - BASIS OF DESIGN (MINIMUM RATING TO BE 40 KA - L4, 40 KA - L4, 40 KA - LN).
 - LIBERT CATALOG NOS.
 - ACV 20810 FOR 208V, 3Ø, 3W+G
 - ACV 120Y111RKE FOR 208Y/120V, 3Ø, 4W+G
 - ACV 48Y110 FOR 480V, 3Ø, 3W+G
 - ACV 277Y111RKE FOR 480Y/277V, 3Ø, 4W+G
 - WARRANTY
 - THE MANUFACTURER SHALL PROVIDE A LIMITED FIVE YEAR WARRANTY FROM THE DATE OF SHIPPING AGAINST FAILURE WHEN INSTALLED IN COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION, UL LISTING REQUIREMENTS, AND ANY APPLICABLE NATIONAL OR LOCAL ELECTRICAL CODES. MANUFACTURER SHALL MAKE AVAILABLE FOR CONSULTATION, (LOCAL, NATIONAL) ENGINEERING SERVICE SUPPORT. - MANUFACTURER
 - LIBERT ACV SERIES OR APPROVED EQUAL BY CURRENT TECHNOLOGY OR INNOVATIVE TECHNOLOGY.
- F. ACCESSORIES
- UNIT STATUS INDICATORS
 - THE UNIT SHALL HAVE AN INTEGRAL STATUS CIRCUIT THAT MONITORS THE OPERATIONAL STATUS OF ALL MODES OF PROTECTION, INCLUDING LINE TO NEUTRAL, LINE TO GROUND AND NEUTRAL TO GROUND. NO MANUAL TESTING IS REQUIRED TO CONFIRM THE INTEGRITY OF THE SUPPRESSION AND FILTER SYSTEMS. IF THE SYSTEM DOES FAIL, THE GREEN LED LIGHT WILL GO OUT AND THE RED LED LIGHT WILL BE LIT.
9. GROUNDING
- AN EQUIPMENT-GROUNDING CONDUCTOR, COMMONLY DESCRIBED AS A "GREEN WIRE" SHALL BE PROVIDED FOR ALL BRANCH CIRCUITS PROTECTED BY OVERCURRENT DEVICES OR GROUNDING BRANCH CIRCUITS. "GREEN GROUND" WIRE SHALL ALSO BE PROVIDED FOR FLEXIBLE CONDUIT AND MOTOR CIRCUITS.
 - PROVIDE RACEWAYS CONTINUITY TESTS OF RESISTANCE OF FEEDER CONDUITS FROM SERVICE TO POINT OF FINAL DISTRIBUTION USING 1 CONDUCTOR RETURN, MAXIMUM RESISTANCE SHALL BE 25 OHMS.
 - MAINTAIN GROUNDING CONTINUITY OF INTERRUPTED METALLIC RACEWAYS WITH GROUNDING OR FLEXIBLE CONDUIT FOR FEEDERS AND MOTOR TERMINAL CONNECTIONS.
10. RACEWAYS
- CONDUIT & FITTINGS
 - RIGID METAL CONDUIT (RMC/RGS):
 - RIGID-WEIGHT PIPE, GALVANIZED STEEL, THREADED
 - PERMITTED FOR FEEDERS AND BRANCH CIRCUITS. PAINT MALE THREADS OF FIELD-THREADED CONDUIT WITH GRAPHTITE-BASED PIPE COMPOUND AND GROUT AT JOINT ENDS. TOUCH UP MARKED SURFACES AND FIELD-OUT THREADS, CRC-COLOR GALVANIZED.
 - FITTINGS: NONSLIP, THREADED, STEEL OR MALLEABLE IRON. ZINC DIE CAST NOT PERMITTED.
 - ELECTROMETALLIC TUBING (EMT):
 - THIN WALL PIPE, GALVANIZED, THREADESS.
 - PERMITTED FOR FEEDERS AND BRANCH CIRCUITS, IN DRY LOCATIONS, DRY WALLS, HUNG CEILINGS, HOLLOW BLOCK WALLS, PANEL SPACES. EMT SHALL NOT BE PERMITTED IN RAISED FLOORS.
 - FITTINGS: COMPRESSION TYPE 2" AND UNDER, SET SCREW TYPE 2-1/2" AND LARGER, GALVANIZED RIGID STEEL ELBOWS, 2" OR LARGER.
 - FLEXIBLE METAL CONDUIT (FMC):
 - CONTINUOUS SINGLE STRIP, GALVANIZED.
 - PERMITTED FOR SHORT CONNECTIONS WHERE RIGID CONDUIT IS IMPRACTICAL. FROM OUTLET BOX TO RECESSED LIGHTING FIXTURE. PROVIDE MINIMUM 4" AND MAXIMUM 6" LENGTHS FOR FINAL CONNECTION TO MOTOR TERMINAL BOX, TRANSFORMER AND OTHER VIBRATING EQUIPMENT. PROVIDE WITH POLY-GRYV, SHEATHING CONDUIT.
 - MINIMUM LENGTH: 18" WITH BLACK, CONNECT GROUND CONDUCTOR TO ENCLOSURE OR RACEWAY AT EACH END. PROVIDE EXPANSION JOINT CROSSINGS, CROSS AT RIGHT ANGLES AND ANCHOR ENDS.
 - FITTINGS: ANGLE WEDGE TYPE WITH INSULATED THROAT
 - WIREWAYS: WIRE SHALL BE AS NOTED, MINIMUM #16 GAUGE STEEL WITH GROUND CONTINUITY. FINISH SHALL BE BAKED ENAMEL. COVERS SHALL BE SCREW-ON.

4. ACCESSORIES

- BUSHINGS: METALLIC INSULATED TYPE.
- EXPANSION FITTINGS SHALL BE INSTALLED AT RIGHT ANGLES WITH CLIP JOINT CENTERED IN EXPANSION JOINT. PROVIDE A LENGTH OF RUN IN ACCORDANCE WITH MANUFACTURER'S DIMENSIONS. PRESET FITTINGS SHALL ALLOW FOR TEMPERATURE VARIATION.
- BOXES

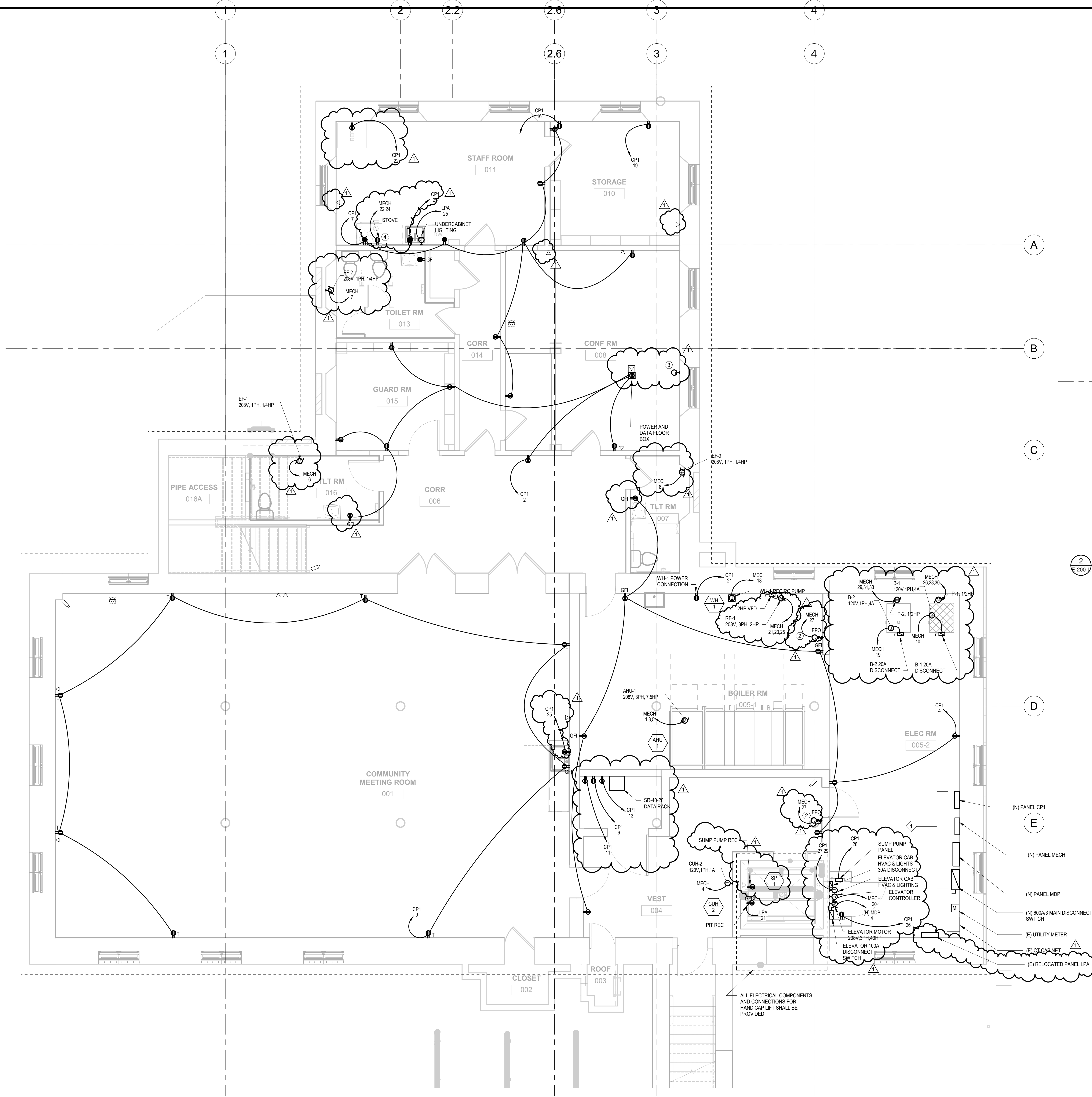
 - OUTLET BOXES, EXCEPT AS OTHERWISE REQUIRED BY CONSTRUCTION, DEVICES OR WIRING, BOXES SHALL BE STAMPED STEEL, 4" SQUARE OR OCTAGON FOR FIXTURES, BOXES ABOVE CEILING SHALL BE 1-1/2" DEEP. BOXES IN CEILING OR SLAB SHALL BE 3" DEEP. BOXES IN WALL FOR FIXTURES SHALL BE 3-3/4" DEEP. BOXES IN WALL FOR RECEPTACLES AND SWITCHES SHALL BE 1-1/2" DEEP. FURNISH WITH RAISED COVERS AND FIXTURE STUDS WHERE REQUIRED.
 - WITHOUT FIXTURE OR DEVICE: FURNISH BLANK COVER, OFFSET BACK-TO-BACK OUTLETS WITH MINIMUM 6" SEPARATION.
 - ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. OUTLET BOXES SHALL BE SET SQUARE AND TRUE WITH BUILDING FINISH. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP-IRON OR GROUT IN WITH MASONRY. PROVIDE BARRIERS BETWEEN SWITCHES CONNECTED TO DIFFERENT VOLTAGES.
 - GROUND FAULT INTERRUPTER WITH SELF-PROTECTION AND LED INDICATOR LIGHT. PROVIDE SIMILAR TO: FR5 #001, HUBBELL #6301L, LEVITON #8984-HGI
 - JUNCTION AND PULL BOXES: GALVANIZED SHEET STEEL, WITH SCREW-ON COVERS, EXCEPT AS NOTED. FURNISH WITH INSULATED SUPPORTS FOR CABLES. LOCATIONS SHALL BE AS NOTED OR REQUIRED AND ACCESSIBLE.
 - PANEL, JUNCTION AND PULL BOXES SHALL BE LOCATED CLEAR OF OTHER TRADES. CONCEAL JUNCTION AND PULL BOXES IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. BOXES SHALL BE ACCESSIBLE. SUPPORT BOXES FROM BUILDING STRUCTURE, INDEPENDENT OF CONDUIT. PROVIDE FLOOR-TO-CEILING CHANNELS FOR MOUNTING ON DRYWALL AND LIGHTWEIGHT CONSTRUCTION. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILINGS SHALL BE CONCEALED. CONCEALED CHANNELS CREATED BY REMOVAL OF FIXTURE. SECURE TO BLACK IRON OR GALVANIZED STEEL CHANNEL SUPPORT. MOTOR TERMINAL BOXES: COORDINATE WITH MOTOR BRANCH CIRCUIT CONDUIT AND WIRING; ADD BOX VOLUME WHERE REQUIRED.

- SUPPORT

 - PROVIDE RACEWAY SUPPORT UTILIZING CEILING TRAPEZE, STRAPHANGERS, OR WALL BRACKETS. PROVIDE U-BOLTS AT EACH FLOOR LEVEL OF RISER RACEWAYS AND CONNECTED TO ACCEPTABLE SUPPORTS. PROVIDE RISER CLAMPS AT EACH FLOOR LEVEL OF RISER RACEWAYS AND RESTING ON SLAB.
 - REINFORCED THERMOPLASTIC BY SAME MANUFACTURER OF DEVICES.

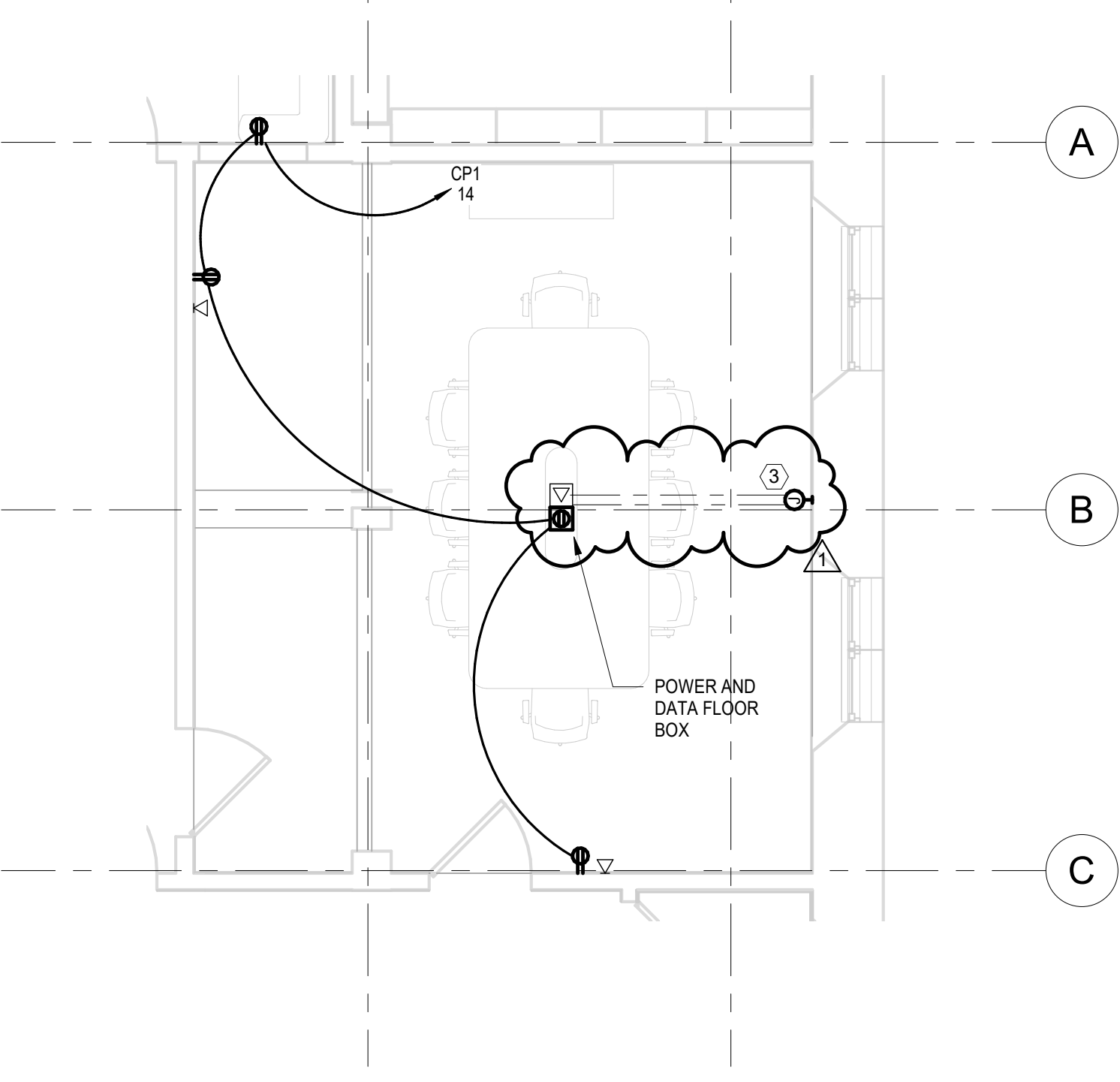
- LIGHTING FIXTURES

 - MANUFACTURE AND INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH NEC ARTICLE 410.
 - PROVIDE ALL LIGHTING FIXTURES INDICATED, COMPLETE WITH LUMPS. INCLUDE ALL INTERIOR LIGHTING FIXTURES, AND ALL EXTERIOR FIXTURES MOUNTED ON THE BUILDING.
 - FURNISH ALL PLASTER FRAMES OR DRY WALL AND DELIVER TO PROJECT SITE FOR INSTALLATION UNDER FINISHES, DIVISION 9.
 - USE FIXTURES CONFORMING TO UL STANDARDS, AND BEARING UL LABEL AND UNION LABEL.
 - PROVIDE APPROPRIATE MOUNTING ACCESSORIES FOR EACH FIXTURE, COMPATIBLE WITH THE VARIOUS STRUCTURAL CONDITIONS THAT WILL BE ENCOUNTERED. PROVIDE FASTENING CLIPS (EARTHQUAKE CLIPS) FOR LIGHTING FIXTURES THAT ARE SUPPORTED FROM FRAMING MEMBERS OF SUSPENDED CEILINGS.
 - ASSEMBLE WIRE AND INSTALL ALL LIGHTING FIXTURES AT THEIR RESPECTIVE OUTLETS AS INDICATED AND ASSUME RESPONSIBILITY FOR THEIR CONDITION UNDER ACCEPTANCE BY OWNER. INSTALL PROPER LAMPS IN EACH FIXTURE.
 - GITURE CONNECTIONS TO BRANCH CIRCUITS SHALL BE MADE USING STRANDED WIRE WITH INSULATION TEMPERATURE RATING EQUAL TO OR HIGHER THAN THAT OF THE WIRE. USE THE WIRE OR SPECIFIED BY FUTURE MANUFACTURER. FIXTURES ARE TO BE CONNECTED TO BRANCH CIRCUITS VIA JUNCTION BOX USING FLEXIBLE CONDUIT NO GREATER THAN 6".
 - NOTE THAT SPECIFICATIONS FOR RECESSED FIXTURES GENERALLY REQUIRE THE USE OF MODULAR ACCESSORIES AND THAT EACH FIXTURE TYPE MAY BE USED IN SEVERAL DIFFERENT CEILINGS, SUCH AS LAY-IN EXPOSED GRID, CONCEALED SPLINE TILE, OR DRYWALL. VERIFY MOUNTING DETAILS FOR EACH SPACE BEFORE ORDERING FIXTURES SO THAT PROPER QUANTITIES FOR EACH CONDITION WILL BE DELIVERED IN TIME TO AVOID CONSTRUCTION DELAYS.
 - SECURELY FASTEN LIGHTING FIXTURES TO FRAMING MEMBERS OF SUSPENDED CEILING WITH FASTENING CLIPS, AS SPECIFIED. CLIP EACH FIXTURE TO ALL ADJOINING FRAMING MEMBERS TO PREVENT MOVEMENT OF THE MEMBERS AWAY FROM THE FIXTURES.
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 - NOTE THAT SPECIFICATIONS FOR RECESSED FIXTURES GENERALLY REQUIRE THE USE OF MODULAR ACCESSORIES AND THAT EACH FIXTURE TYPE MAY BE USED IN SEVERAL DIFFERENT CEILINGS, SUCH AS LAY-IN EXPOSED GRID, CONCEALED SPLINE TILE, OR DRYWALL. VERIFY MOUNTING DETAILS FOR EACH SPACE BEFORE ORDERING FIXTURES SO THAT PROPER QUANTITIES FOR EACH CONDITION WILL BE DELIVERED IN TIME TO AVOID CONSTRUCTION DELAYS.
 - INSURELY FASTEN LIGHTING FIXTURES TO FR



NEW WORK NOTES

- 1 PROVIDE NEW REPLACEMENT, 600A, 120/208V, 3P, 4W MAIN ELECTRICAL SERVICE COMPLETE WITH NEW CONDUIT AND WIRING.
- 2 INSTALL EMERGENCY POWER OFF (EPO) BUTTON TO SHUT DOWN POWER TO THE BOILERS. WIRE EPO'S IN SERIES SUCH THAT OPERATION OF EITHER BUTTON WILL TRIP BOTH BOILERS VIA SHUNT TRIP BREAKERS.
- 3 PROVIDE JUNCTION BOX FOR SPLICE TO CONNECT IN FLOOR. EMBEDDED 1" DEEP, RUN RECEPTACLE POWER AND DATA WIRING THROUGH CONNECTRAC TO FLOOR BOX BELOW TABLE.
- 4 CONTRACTOR TO PROVIDE MATCHING 40A, 208V PLUG AND RECEPTACLE FOR STOVE/OVEN.



1 ELECTRICAL PROPOSED POWER - LIBRARY LOWER LEVEL
E-200-L 1/4" = 1'-0"

REVISIONS		
DATE	ISSUE	DESCRIPTION
09/29/22	1	ISSUE FOR BID
09/27/22	0	ISSUE FOR BID



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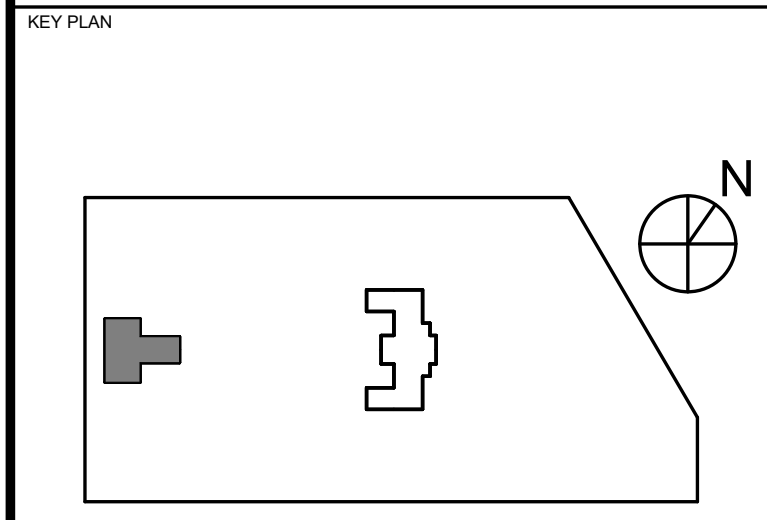
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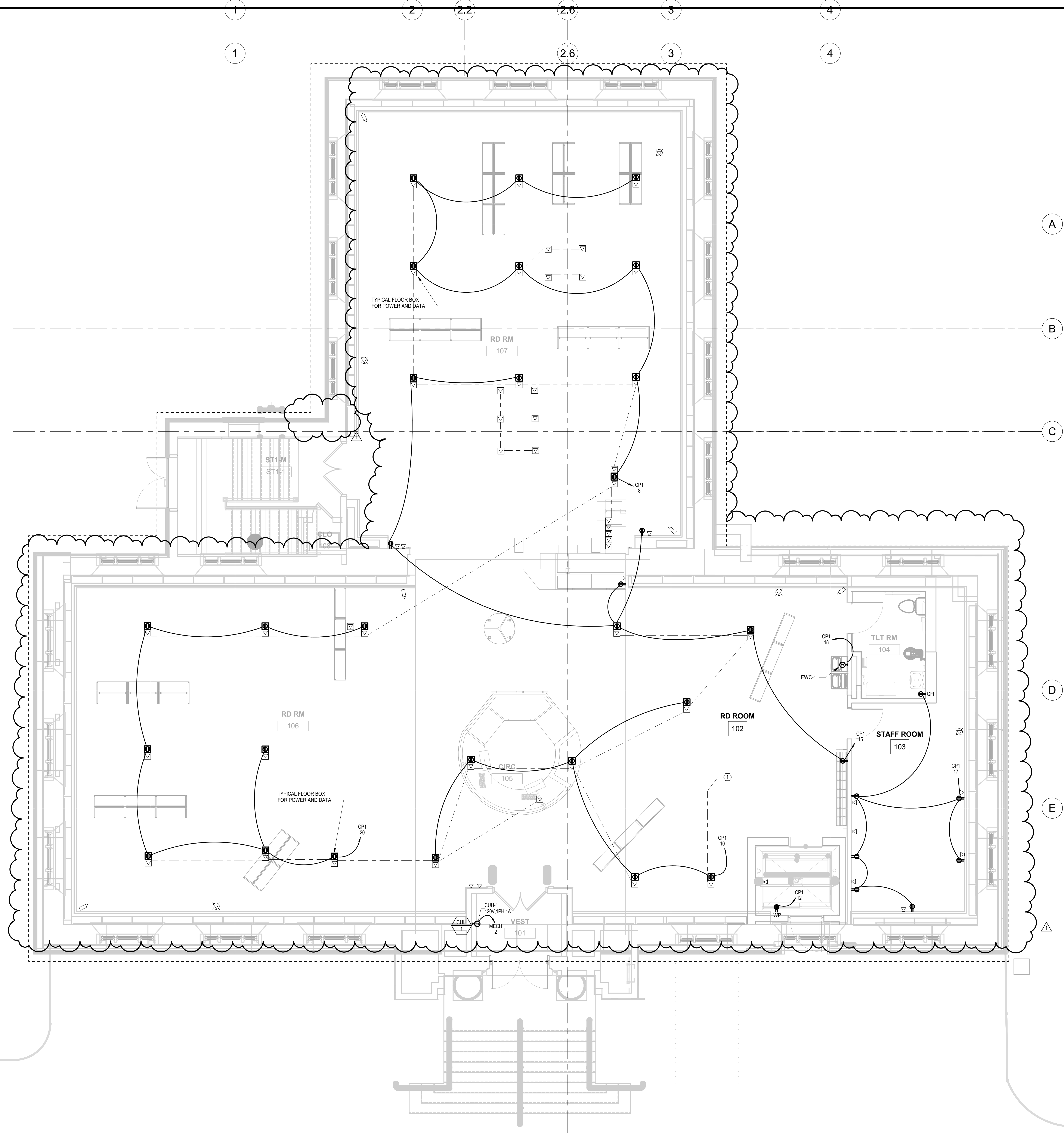
PROJECT TITLE
**KINGSESSING BUILDING
AND SITE
IMPROVEMENTS**



DRAWING TITLE
**ELECTRICAL PROPOSED
POWER - BASEMENT**

PROJECT NO. KMLX21003	DRAWING NO. E-200-L
DATE 09/07/2022	SCALE AS NOTED
DRAWN BY: NSL	CHECKED BY: RHC

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



NEW WORK NOTES

1 RUN 1" DATA CONDUIT UNDER FLOOR IN BASEMENT CEILING BETWEEN FLOOR BOXES TO TELECOM CLOSET IN BASEMENT AND CAP 6" INTO ROOM.

REVISIONS		
DATE	ISSUE	DESCRIPTION
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09/07/22	0	ISSUE FOR BID



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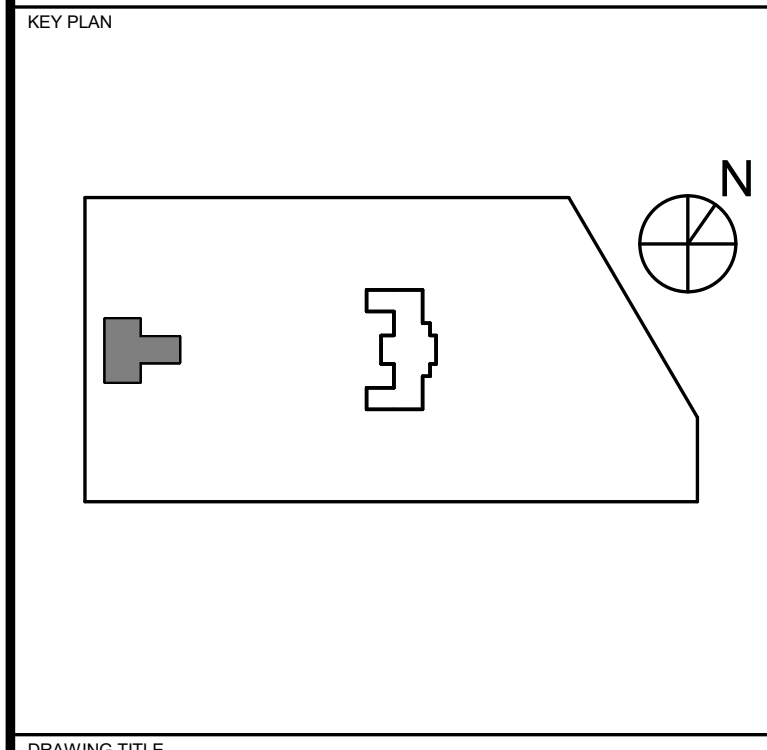
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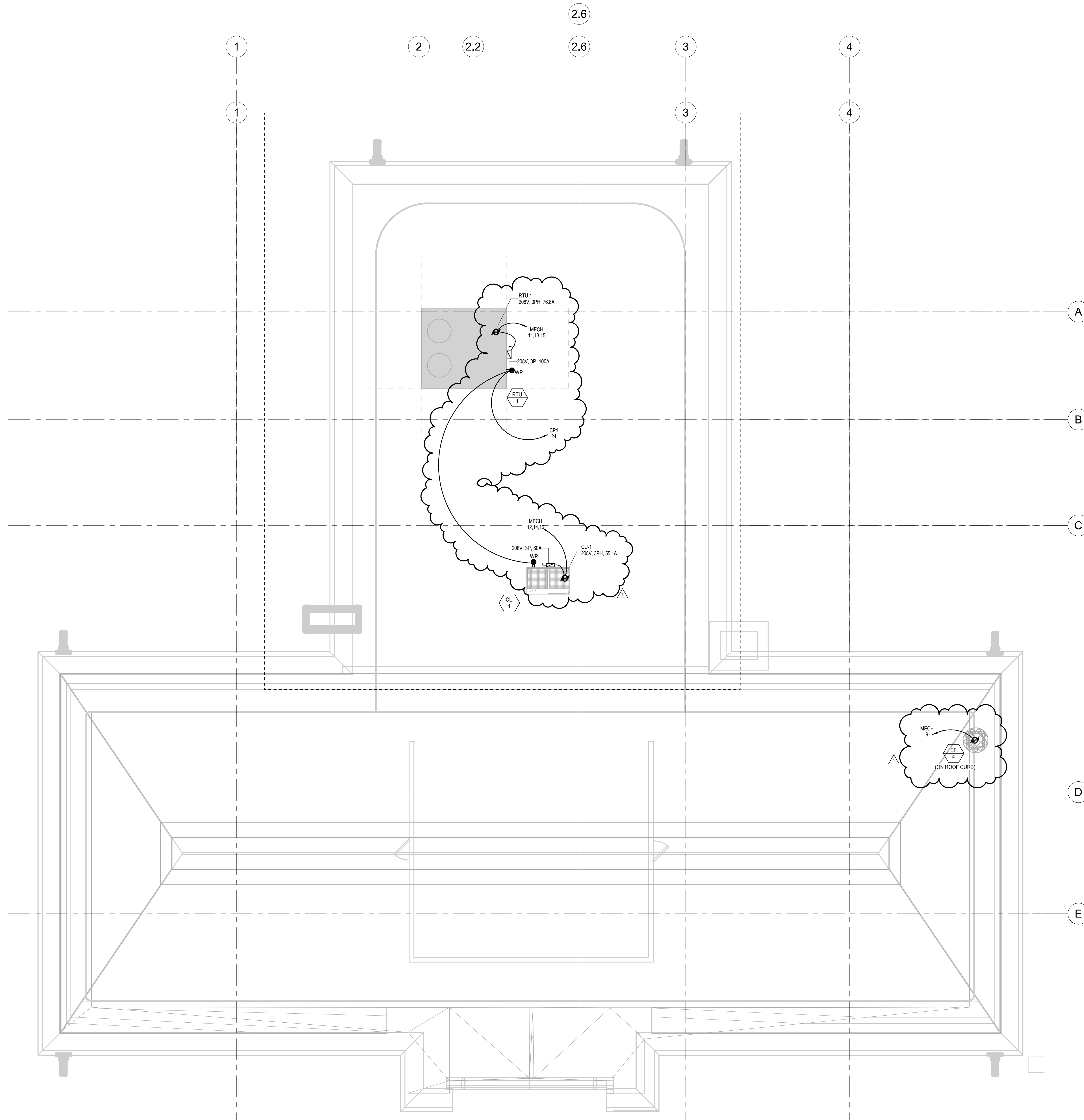


DRAWING TITLE
ELECTRICAL PROPOSED POWER - FIRST FLOOR

PROJECT NO. KMLX21003	DRAWING NO. E-201-L
DATE 09/07/2022	SCALE AS NOTED
DRAWN BY: NSL	CHECKED BY: RHC

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

1 ELECTRICAL PROPOSED POWER - LIBRARY FIRST FLOOR
 E-201-L 1/4" = 1'-0"



1 ELECTRICAL PROPOSED POWER - LIBRARY ROOF
E-203-L 1/4" = 1'-0"

REVISIONS		
DATE	ISSUE	DESCRIPTION
09/29/22	1	ISSUE FOR BID
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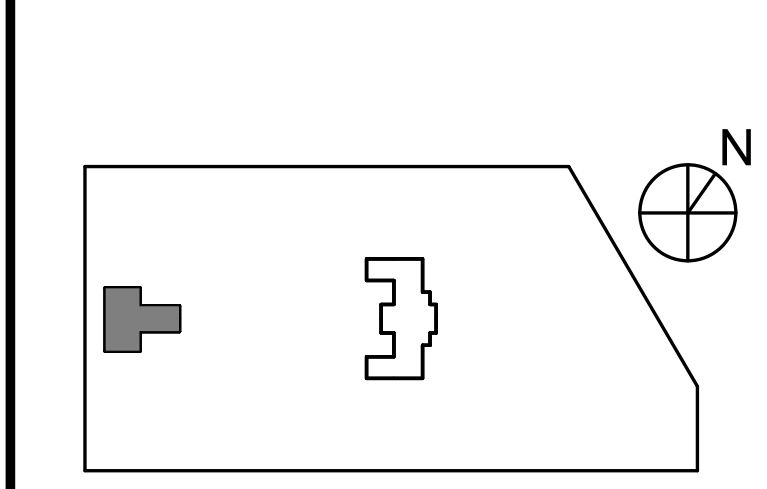
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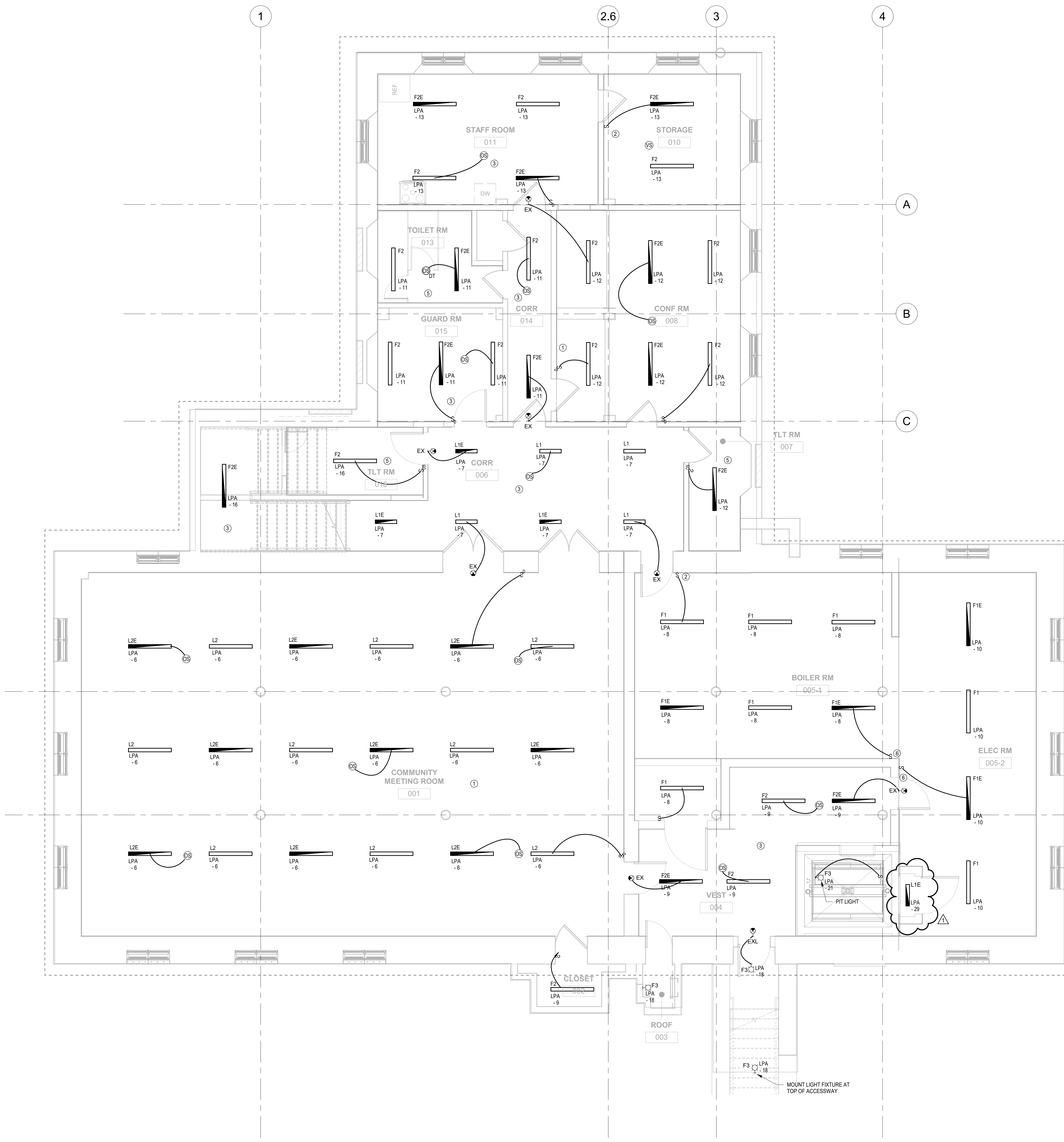
PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS



DRAWING TITLE
ELECTRICAL PROPOSED POWER - ROOF

PROJECT NO. KMLX21003	DRAWING NO. E-203-L
DATE 09/07/2022	
SCALE AS NOTED	
DRAWN BY: NSL	
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NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

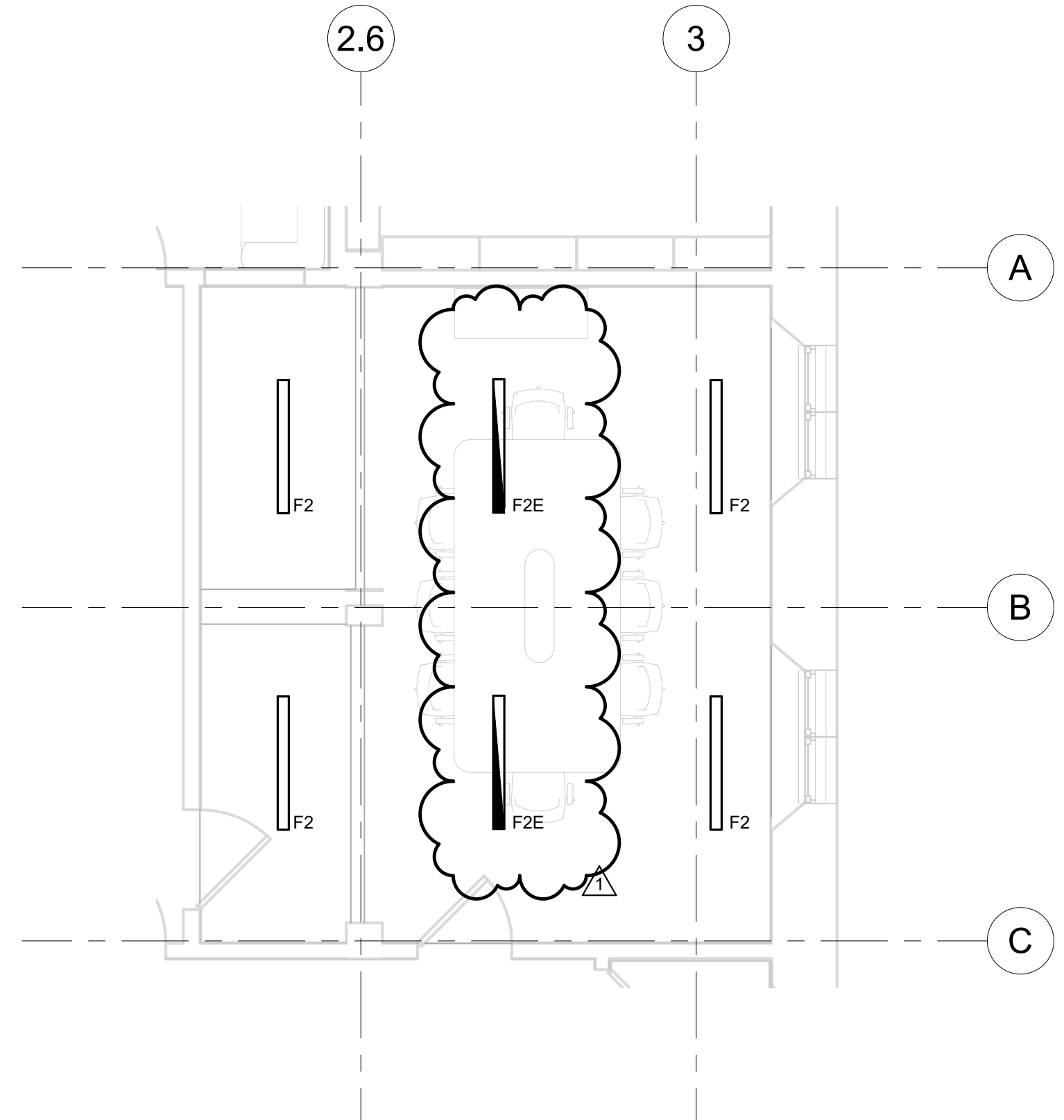


GENERAL NOTES

1. LIGHTING CONTROLS SHALL BE OF AUTOMATIC TYPE FOR NON-UTILITY SPACES.
2. LIGHTING CONTROLS FOR UTILITY SPACES SHALL BE NON-AUTOMATIC (TOGGLE-TYPE)
3. EMERGENCY LIGHTING SHALL BE VIA EMERGENCY BATTERY UNIT INTEGRAL TO SELECTED LIGHT FIXTURE(S).
4. EXIT SIGNS AND BATTERY UNITS SHALL BE CIRCUITED AHEAD OF THE LIGHTING CONTROLS

④ LIGHTING CONTROL NOTES

- ① MANUAL SWITCH ON WITH 30-70% DIMMABLE LIGHTS AND AUTO OFF AFTER 20 MINUTES OF VACANCY.
- ② LOCAL SWITCH TURNS ON 100% OF LIGHTS. VACANCY SENSOR SHALL AUTOMATICALLY TURN OFF LIGHTS AFTER 20 MINUTES VACANCY.
- ③ CORRIDOR/LOBBY/STAIRWAY/OPEN AREA LIGHTING WITH LOCAL TIMELOCK FOR AUTOMATIC SCHEDULED ON/OFF. DURING OFF HOURS OCCUPANCY SENSOR TURNS ON 100% LIGHTS REDUCE POWER 50% AFTER 20 MINUTES VACANCY.
- ④ MANUAL SWITCH ON. LIGHTS SHALL TURN OFF AFTER 20 MINUTES OF ALL OCCUPANTS LEAVING SPACE.
- ⑤ OCCUPANCY SENSOR TURNS ON 100% OF LIGHTS. LIGHTS SHALL TURN OFF AFTER 20 MINUTES OF ALL OCCUPANTS LEAVING SPACE.
- ⑥ MANUAL SWITCH TURNS 'ON/OFF' ALL LIGHTS IN AREA.



② ELECTRICAL PROPOSED LIGHTING - LIBRARY LOWER LEVEL - ALTERNATE L-2
E-300-L 1/4" = 1'-0"

① ELECTRICAL PROPOSED LIGHTING - LIBRARY LOWER LEVEL
E-300-L 1/4" = 1'-0"

REVISIONS

DATE	ISSUE	DESCRIPTION
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PROJECT COORDINATOR

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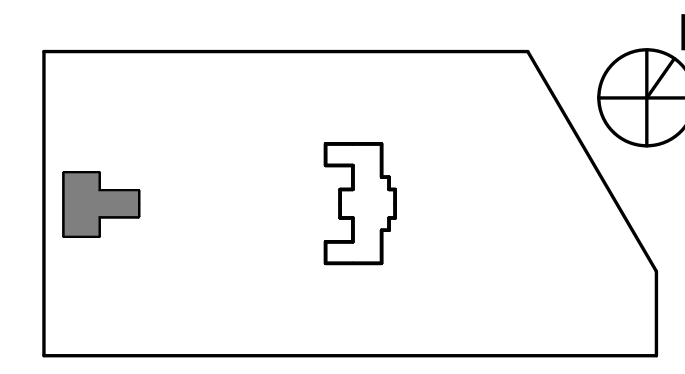
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PROJECT TITLE
**KINGSESSING BUILDING
AND SITE
IMPROVEMENTS**

KEY PLAN



DRAWING TITLE
**ELECTRICAL PROPOSED
LIGHTING - BASEMENT**

PROJECT NO: KMLX21003 DRAWING NO: _____

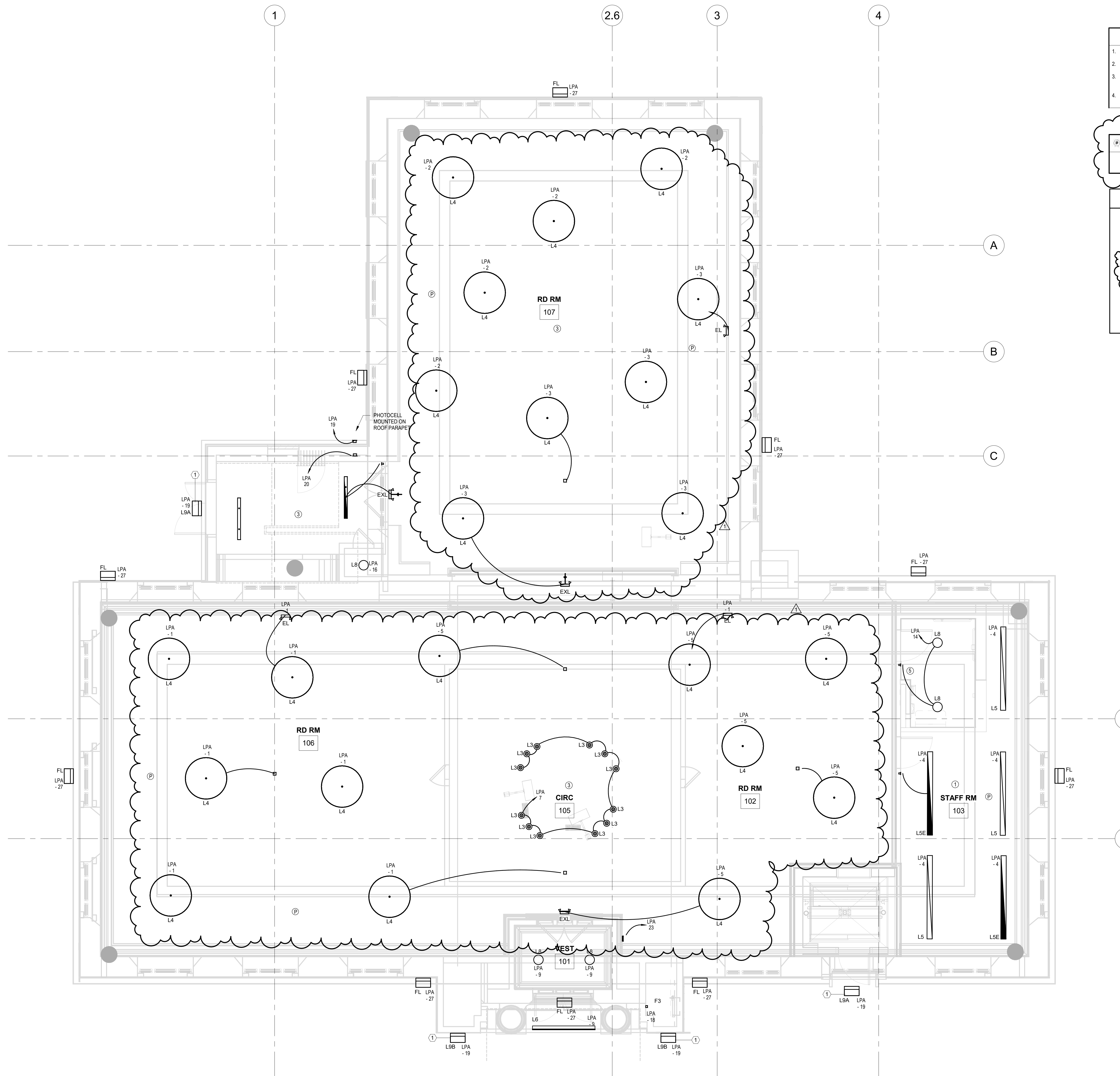
DATE: 09/07/2022 **E-300-L**

SCALE: AS NOTED

DRAWN BY: NSL

CHECKED BY: JR

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



GENERAL NOTES

1. LIGHTING CONTROLS SHALL BE OF AUTOMATIC TYPE FOR NON-UTILITY SPACES.
2. LIGHTING CONTROLS FOR UTILITY SPACES SHALL BE NON-AUTOMATIC (TOGGLE-TYPE)
3. EMERGENCY LIGHTING SHALL BE VIA EMERGENCY BATTERY UNIT INTEGRAL TO SELECTED LIGHT FIXTURE(S).
4. EXIT SIGNS AND BATTERY UNITS SHALL BE CIRCUITED AHEAD OF THE LIGHTING CONTROLS

NEW WORK NOTES

1. EXTERIOR LIGHTS ON CIRCUIT LPA-15 SHALL BE INDIVIDUALLY CONTROLLED BY INTEGRAL PHOTOCELLS.

LIGHTING CONTROL NOTES

1. MANUAL SWITCH ON WITH 30-70% DIMMABLE LIGHTS AND AUTO OFF AFTER 20 MINUTES OF VACANCY. ROOM SHALL BE PROVIDED WITH AUTOMATIC DAYLIGHT RESPONSE BASED ON NATURAL LIGHTING LEVEL.
2. LOCAL SWITCH TURNS ON 100% OF LIGHTS. VACANCY SENSOR SHALL AUTOMATICALLY TURN OFF LIGHTS AFTER 20 MINUTES VACANCY.
3. CORRIDOR/LOBBY/STARWAY/OPEN AREA LIGHTING WITH LOCAL TIMECLOCK FOR AUTOMATIC SCHEDULED ON/OFF. DURING OFF HOURS, OCCUPANCY SENSOR TURNS ON 100% AND LIGHTS REDUCE POWER 50% AFTER 20 MINUTES VACANCY. LOBBY/OPEN AREA LIGHTING SHALL BE PROVIDED WITH AUTOMATIC DAYLIGHT RESPONSE TO REDUCE LIGHT LEVEL BASED ON NATURAL LIGHTING LEVEL.
4. MANUAL SWITCH ON LIGHTS SHALL TURN OFF AFTER 20 MINUTES OF ALL OCCUPANTS LEAVING SPACE. LIGHTS WILL TURN OFF WITH AUTOMATIC DAYLIGHT RESPONSE TO REDUCE LIGHT LEVEL BASED ON NATURAL LIGHTING LEVEL.
5. OCCUPANCY SENSOR TURNS ON 100% OF LIGHTS. LIGHTS SHALL TURN OFF AFTER 20 MINUTES OF ALL OCCUPANTS LEAVING SPACE.

2 L-FIRST FLOOR
E-301-L 1/4" = 1'-0"

REVISIONS		
DATE	ISSUE	DESCRIPTION
09/29/22	1	ISSUE FOR BID
09/27/22	0	ISSUE FOR BID



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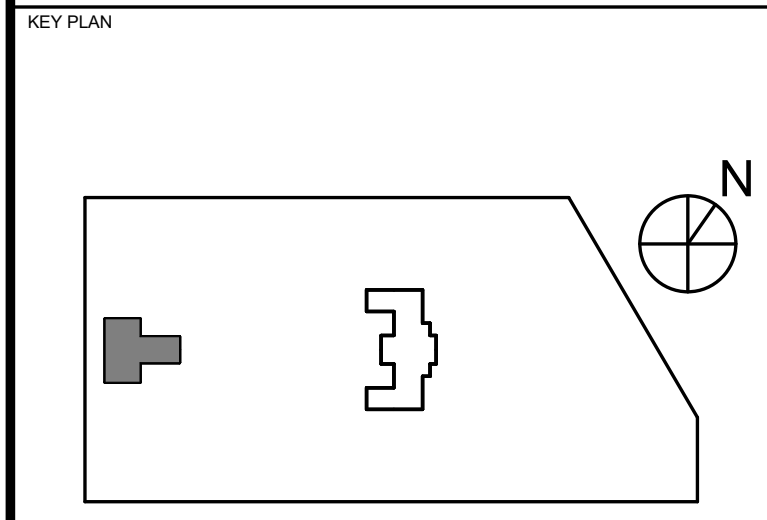
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PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS

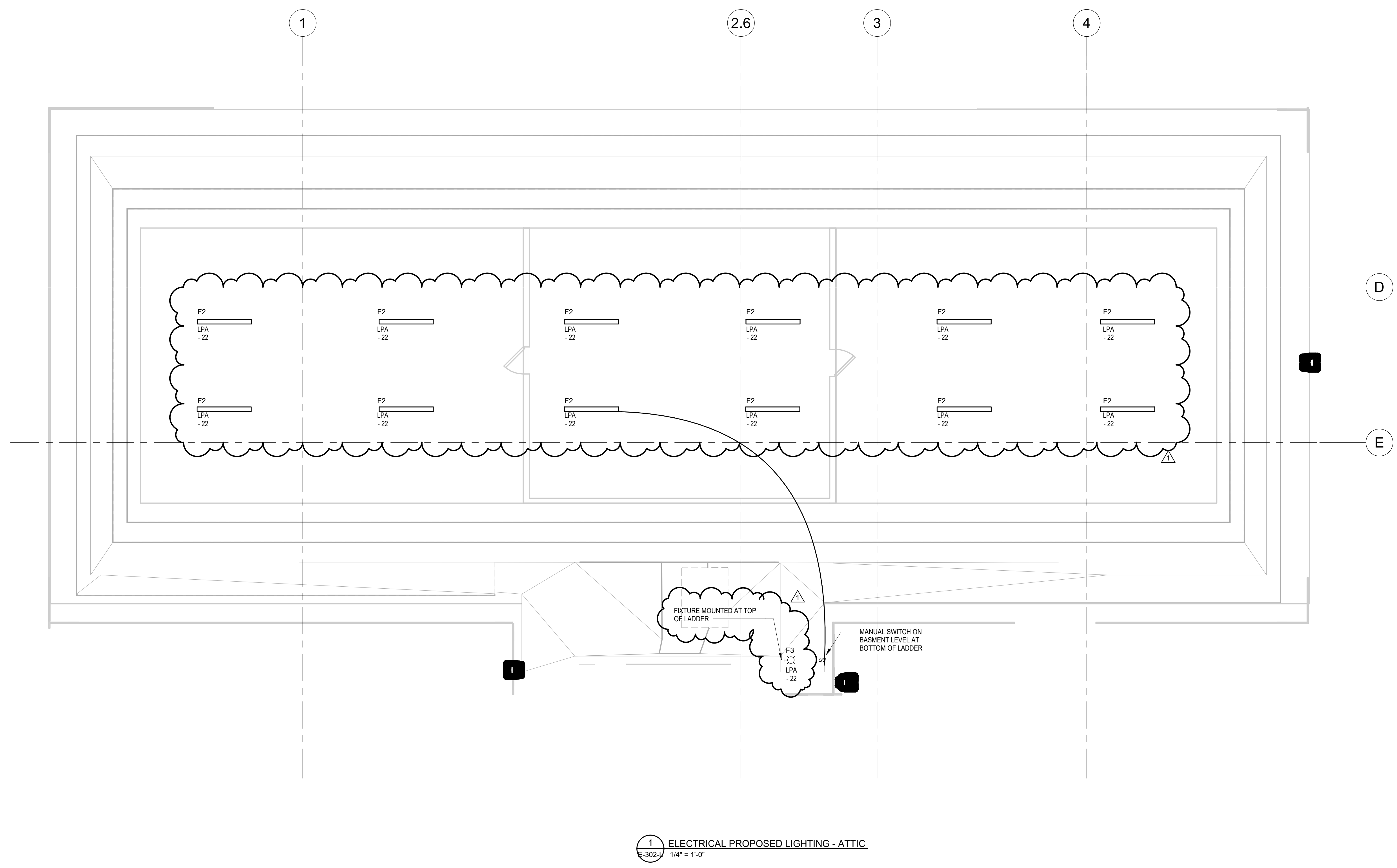


DRAWING TITLE
ELECTRICAL PROPOSED LIGHTING - FIRST FLOOR

PROJECT NO. KMLX21003	DRAWING NO. E-301-L
DATE 09/07/2022	SCALE AS NOTED
DRAWN BY: NSL	CHECKED BY: JR

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

GENERAL NOTES
 1. REPLACE IN KIND ELECTRICAL EQUIPMENT REMOVED DURING DEMOLITION INCLUDING ALL RECEPTACLES, CONDUIT, LIGHTING FIXTURES, AND SWITCHES.



REVISIONS		
DATE	ISSUE	DESCRIPTION
09/29/22	1	ISSUE FOR BID
09/07/22	0	ISSUE FOR BID



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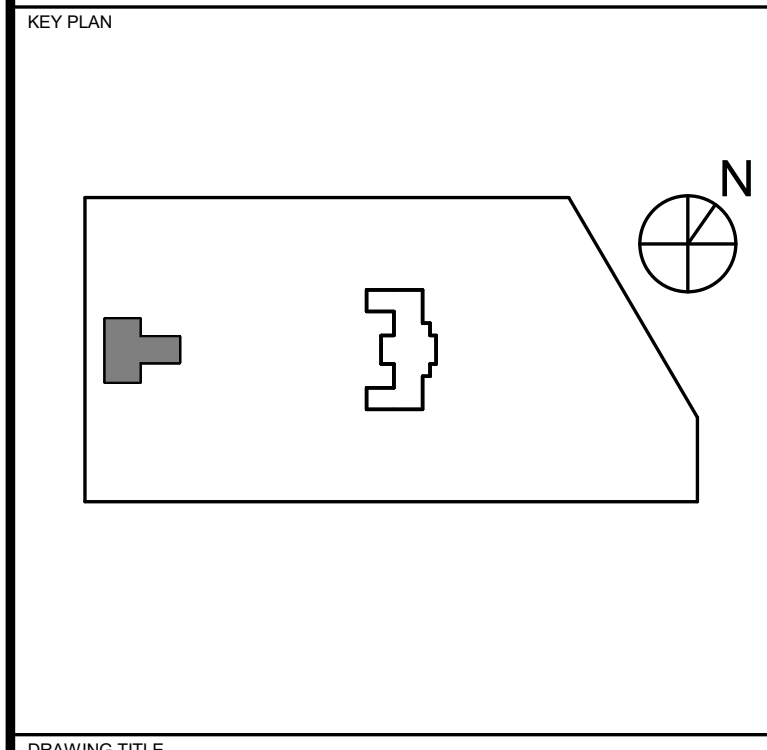
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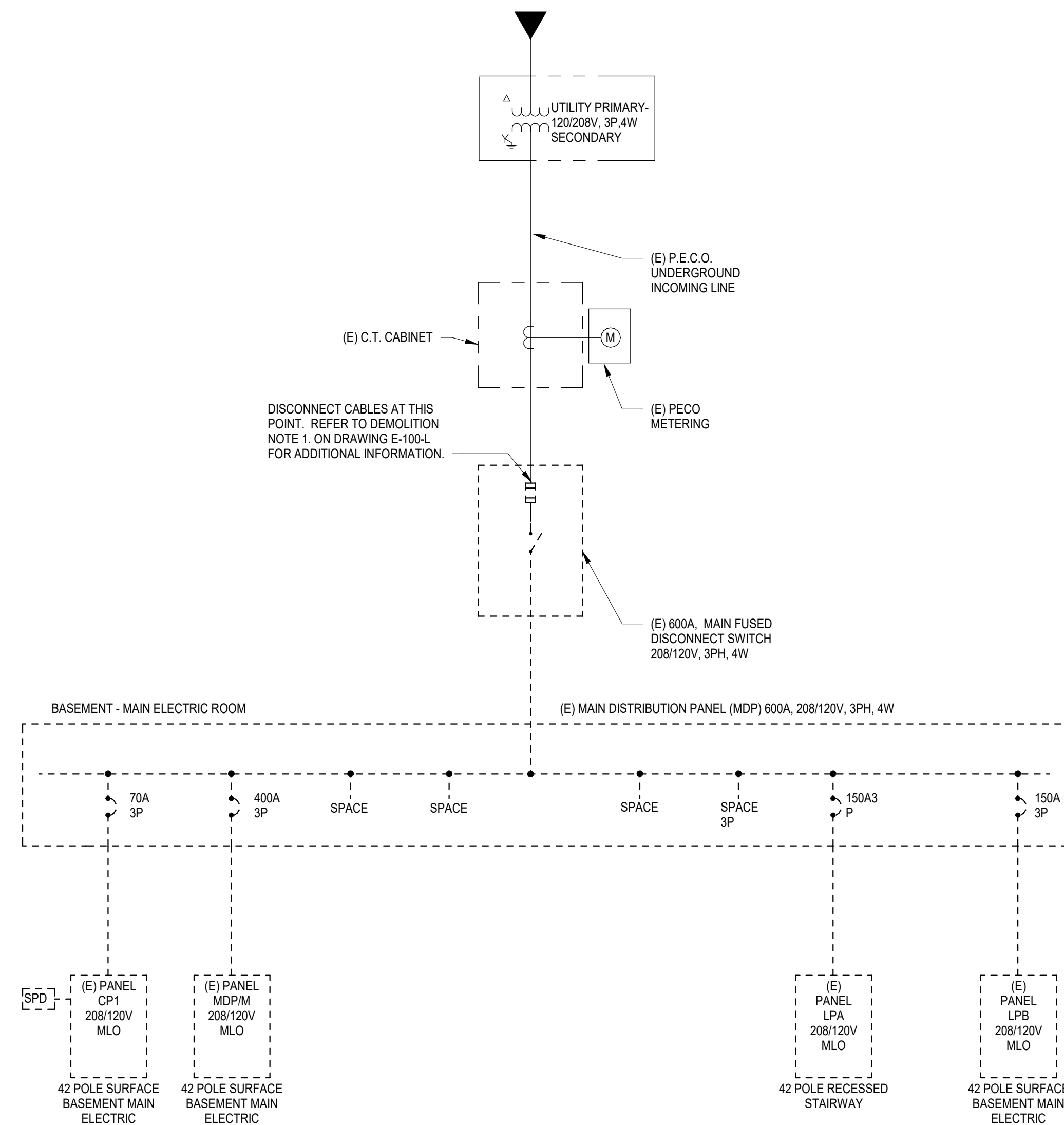
PROJECT TITLE
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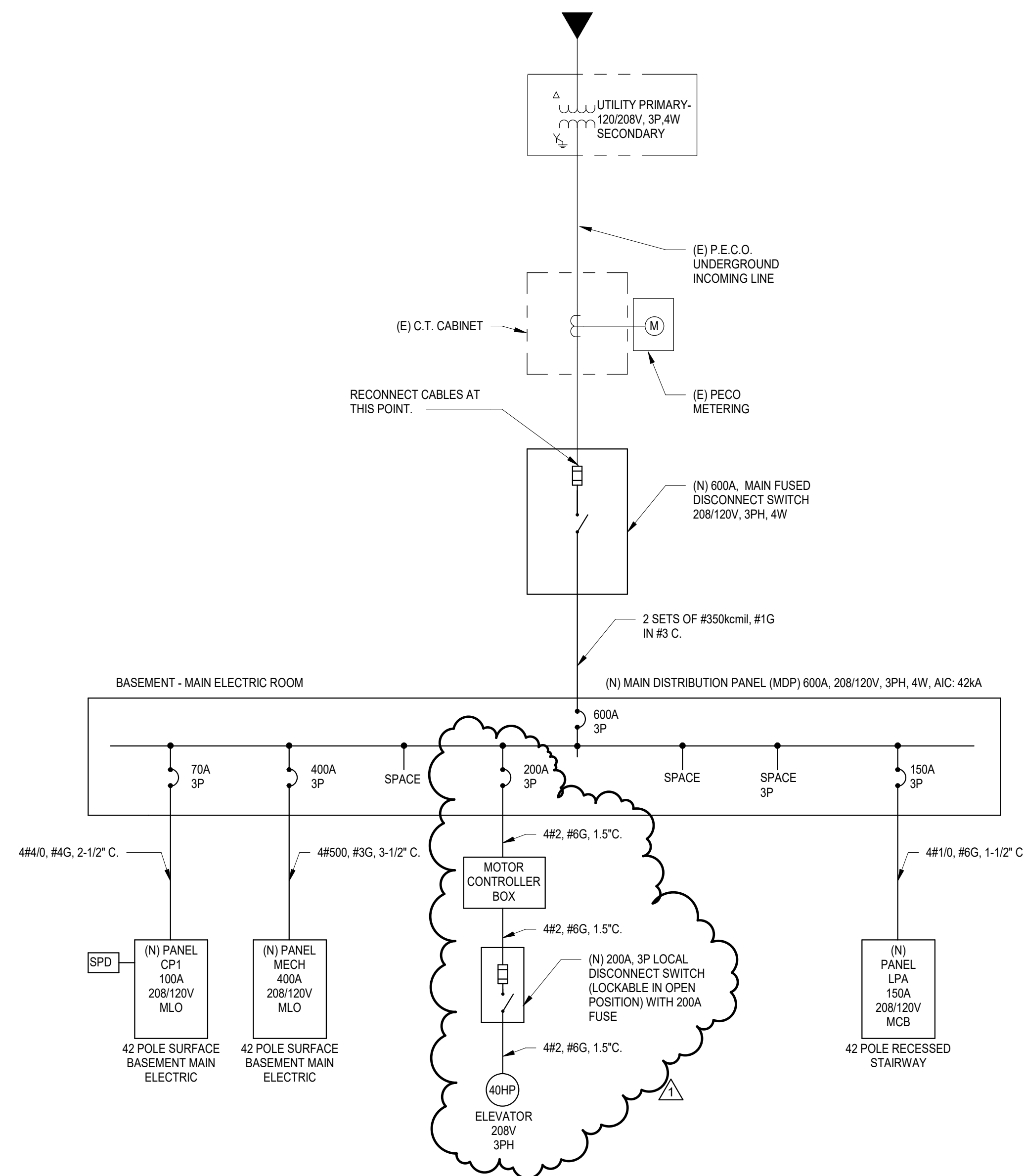
DRAWING TITLE
ELECTRICAL PROPOSED LIGHTING - ATTIC

PROJECT NO. KMLX21003	DRAWING NO. E-302-L
DATE 09/07/2022	
SCALE AS NOTED	
DRAWN BY: Author	
CHECKED BY: Approver	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



1 ELECTRICAL SINGLE LINE DIAGRAM-L EXISTING
E-400-L
N.T.S.



2 ELECTRICAL SINGLE LINE DIAGRAM-L PROPOSED
E-400-L
N.T.S.

REVISIONS

DATE	ISSUE	DESCRIPTION
09/29/22	1	ISSUE FOR BID
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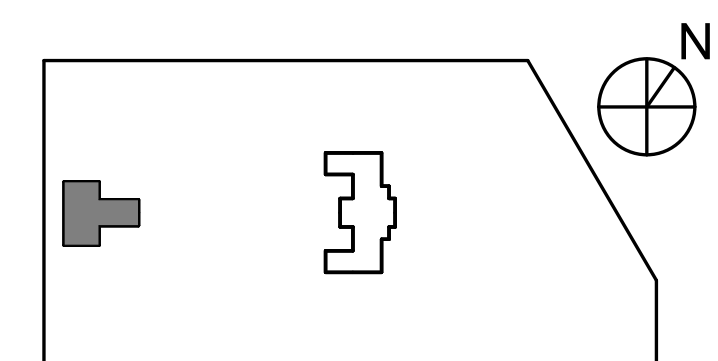
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PROJECT TITLE
**KINGSESSING BUILDING
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IMPROVEMENTS**

KEY PLAN



DRAWING TITLE
**ELECTRICAL SINGLE-LINE
DIAGRAMS**

PROJECT NO. KMLX21003 DRAWING NO.

DATE 09/07/2022 **E-400-L**

SCALE AS NOTED

DRAWN BY: NSL

CHECKED BY: JR

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

Panel: CP1

LOCATION: ELEC RM 005-2		VOLTS: 120/208 Wye		GROUND BUS: 100 A COPPER		BUS: 100 A COPPER	
SUPPLIED FROM: (N) MDP		PHASES: 3		ISOLATED GROUND: MAIN: 100 A MLO		AIC: 42KA	
FEEDER SIZE: Refer to Power Riser Diagram		WIRES: 4		ISOLATED GROUND: AIC: 42KA		LUGS:	
MANUFACTURER: REFER TO SPECIFICATIONS		MOUNTING: SURFACE		NEUTRAL: 100%		LUGS:	

CKT	CIRCUIT DESCRIPTION	WIRE SIZE	TRIP	POLES	A	B	C	POLES	TRIP	WIRE SIZE	CIRCUIT DESCRIPTION	CKT	
1	(E) SURGE SUPPRESSION	20	2	0.0	1.4	0.0	1.4	1	20	2#12#12G	RECS: GUARD RM, CONF RM...	2	
3	(E) TVSS	20	1					1	20	2#12#12G	RECS: BOILER RM, ELEC RM, 004	4	
5	RECS: BASEMENT STAFF RM 011	2#12#12G	20	1	1.6	1.4		1	20	2#12#12G	DEDICATED REC. TELECOM RM	6	
7	RECS: MEETING RM 003	2#12#12G	20	1		1.4	1.1	1	20	2#12#12G	RECS: READING RM 107	8	
9	DEDICATED REC. TELECOM RM	2#12#12G	20	1			0.2	0.2	1	20	2#12#12G	REC: READING RM 102	10
11	DEDICATED REC. TELECOM RM	2#12#12G	20	1	0.2	0.0		1	20	2#12#12G	REC: ELEVATOR	12	
13	RECS: READING RM 107 & LOBBY	2#12#12G	20	1		1.4	0.2	1	20	2#12#12G	(E) ADT FIRE ALARM PANEL	14	
15	RECS: 1ST FLR STAFF ROOM	2#12#12G	20	1			1.3	0.2	1	20	2#12#12G	REC: STAFF RM 011 FRIDGE	16
17	REC: STAFF RM 011 FUTURE...	2#12#12G	20	1	0.2	1.4		1	20	2#12#12G	EW-C: 1: FIRST FLOOR	18	
19	REC: HOT WATER HEATER	2#12#12G	20	1			0.2	0.2	1	20	2#12#12G	REC: READING RM 106	20
21	REC: GARBAGE DISPOSALS, RM...	2#12#12G	20	1	0.4	0.2		1	20	2#12#12G	REFRIG: STAFF RM 011	22	
23	ELEVATOR CAB HVAC & LIGHTING	2#12#12G	20	2			0.1		1	20	2#12#12G	RECS: ROOFTOP	24
25								1	20	2#12#12G	REC: ELEVATOR MACHINE RM	26	
27								1	20	2#12#12G	SUMP PUMP CONTROL PNL...	28	
29													30
31													32
33													34
35													36
37													38
39													40
41													42

LOAD CLASSIFICATION	CONNECTED...	DEMAND...	DEMAND LOAD	TOTAL CONNECTED LOAD:	15 kVA	43 A
Other	0.54 kVA	100%	0.54 kVA	TOTAL DEMAND LOAD:	13 kVA	36 A
POWER	0 kVA	0%	0 kVA	TOTAL DEMAND PLUS 25%:	16.263 kVA	45 A
RECEPTACLE	14.94 kVA	83%	12.47 kVA			

NOTE: ELEVATOR CIRCUIT SIZE IS PENDING FINAL ELEVATOR VENDOR CIRCUIT REQUIREMENTS

Panel: LPA

LOCATION: ST1-M ST11-1		VOLTS: 120/208 Wye		GROUND BUS: 150 A COPPER		BUS: 150 A COPPER	
SUPPLIED FROM: (N) MDP		PHASES: 3		ISOLATED GROUND: MAIN: 150 A		AIC: 22KA	
FEEDER SIZE: Refer to Power Riser Diagram		WIRES: 4		ISOLATED GROUND: AIC: 22KA		LUGS:	
MANUFACTURER: REFER TO SPECIFICATIONS		MOUNTING: SURFACE		NEUTRAL: 100%		LUGS:	

CKT	CIRCUIT DESCRIPTION	WIRE SIZE	TRIP	POLES	A	B	C	POLES	TRIP	WIRE SIZE	CIRCUIT DESCRIPTION	CKT	
1	PENDANT LIGHTS: 1ST FLOOR	2#12#12G	20	1	1.5	1.1		1	20	2#12#12G	PENDANT LIGHTS: 1ST FLOOR	2	
3	PENDANT LIGHTS: 1ST FLOOR	2#12#12G	20	1		1.1	0.3	1	20	2#12#12G	LINEAR FIXTURES: STAFF ROOM	4	
5	PENDANT LIGHTS: 1ST FLOOR	2#12#12G	20	1			1.3	0.7	1	20	2#12#12G	LIGHTS: BASEMENT MEETING RM	6
7	14" PENDANT LIGHTS: 1ST FLOOR	2#12#12G	20	1	0.2	0.1		1	20	2#12#12G	LIGHTS: BOILER ROOM	8	
9	LIGHTS: 1ST FLOOR ENTRANCE	2#12#12G	20	1		3.9	0.2	1	20	2#12#12G	LIGHTS: ELECTRIC AL ROOM	10	
11	LIGHTS: BASEMENT CORR 06	2#12#12G	20	1			0.1	0.1	1	20	2#12#12G	LIGHTS: CONFERENCE RM 008...	12
13	LIGHTS: BASEMENT VESTIBULE	2#12#12G	20	1	0.1	3.8		1	20	2#12#12G	LIGHTS: 1ST FLR OFFICE	14	
15	LIGHTS: ROOMS 013, 014, 015, 016	2#12#12G	20	1		0.1	1.9	1	20	2#12#12G	LIGHTS: STAIRWELL	16	
17	LIGHTS: STAFF ROOM, STORAGE	2#12#12G	20	1			0.1	0.1	1	20	2#12#12G	LIGHTS: ROOF ACCESS...	18
19	LIGHTS: EXTERIOR WALL PACKS	2#12#12G	20	1	0.1	0.0		1	20	2#12#12G	LIGHTING - INTERIOR	20	
21	LIGHT: ELEVATOR	2#12#12G	20	1		0.2	0.3	1	20	2#12#12G	LIGHTS: ATTIC	22	
23	CONTROL PANEL: LIGHTS	2#12#12G	20	1			0.0	0.0					24
25	LIGHTING: UNDERCABINET, RM...	2#12#12G	20	1	0.2	0.0		3	30		SURGE PROTECTIVE DEVICE	26	
27	FLOOD LIGHTS: ROOF PARAPET	2#12#12G	20	1		0.4	0.0					28	
29	LIGHTING - INTERIOR	2#12#12G	20	1			0.0	0.0			SPACE	30	
31	SPACE				0.0	0.0					SPACE	32	
33	SPACE				0.0	0.0					SPACE	34	
35	SPACE				0.0	0.0					SPACE	36	
37	SPACE				0.0	0.0					SPACE	38	
39	SPACE				0.0	0.0					SPACE	40	
41	SPACE				0.0	0.0					SPACE	42	

LOAD CLASSIFICATION	CONNECTED...	DEMAND...	DEMAND LOAD	TOTAL CONNECTED LOAD:	18 kVA	49 A
Lighting	4.8 kVA	100%	4.8 kVA	TOTAL DEMAND LOAD:	21 kVA	57 A
Lighting - Dwelling Unit	0.62 kVA	100%	0.62 kVA	TOTAL DEMAND PLUS 25%:	25.847 kVA	72 A
LIGHTING - EXTERIOR	0.55 kVA	125%	0.688 kVA			
Other	0.18 kVA	100%	0.18 kVA			
RECEPTACLE	0.18 kVA	100%	0.18 kVA			
Lighting - Interior	11.676 kVA	125%	14.595 kVA			

NOTE: SPD UNIT INCLUDED INTEGRAL TO PANELBOARD
EATON CAT # SPD-150-20P-C-2A

Dist. Panel: (N) MDP

LOCATION: ELEC RM 005-2		VOLTS: 120/208 Wye		GROUND: 600 A		BUS: 600 A	
SUPPLIED FROM: (N) MDP		PHASES: 3		ISOLATED GROUND: MAINS: 600 A		AIC: 65 KA	
FEEDER SIZE: Refer to Power Riser Diagram		WIRES: 4		ISOLATED GROUND: AIC: 65 KA		LUGS:	
MANUFACTURER/MOD...:		MOUNTING:		NEUTRAL:		ARC FLASH:	

CKT	DESCRIPTION	WIRE SIZE	FRAME	TRIP	POLES	LOAD	CONNECTED AMPS PLUS 25%	REMARKS
1	PANEL: CP1	3-#4, 1-#4, 1-#8	400 A	70 A	3	15 kVA	54 A	
2	PANEL: MECH	2 runs of 3-#250...	400 A	400 A	3	83 kVA	289 A	
3	PANEL: LPA	3-#30, 1-#30, 1-#6	400 A	150 A	3	18 kVA	61 A	
4	ELEVATOR MOTOR	3-#250, 1-#250, 1-#6	400 A	200 A	3	43 kVA	150 A	
5	SPACE					0 kVA	--	
6	SPACE					0 kVA	--	
7	SPACE					0 kVA	--	
8	SPACE					0 kVA	--	
9	SPACE					0 kVA	--	
10	SPACE					0 kVA	--	
11	SPACE					0 kVA	--	
12	SPACE					0 kVA	--	
13	SPACE					0 kVA	--	
14	SPACE					0 kVA	--	
15	SPACE					0 kVA	--	
16								
17								
18								
19								
20								

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	TOTAL CONNECTED LOAD:	159 kVA	441 A
HEATING	0.12 kVA	100%	0.12 kVA	TOTAL DEMAND LOAD:	165 kVA	459 A
Lighting	4.8 kVA	100%	4.8 kVA	TOTAL DEMAND PLUS 25%:	206.659 kVA	574 A
Lighting - Dwelling Unit	0.62 kVA	100%	0.62 kVA			
LIGHTING - EXTERIOR	0.55 kVA	125%	0.688 kVA			
Motor	27.678 kVA	122%	33.873 kVA			
Other	53.805 kVA	100%	53.805 kVA			
POWER	0.96 kVA	100%	0.96 kVA			
RECEPTACLE	15.12 kVA	83%	12.56 kVA			
HVAC	44.693 kVA	100%	44.693 kVA			
Lighting - Interior	11.676 kVA	125%	14.595 kVA			

NOTE: ELEVATOR CIRCUIT SIZE IS PENDING FINAL ELEVATOR VENDOR CIRCUIT REQUIREMENTS

Panel: MECH

LOCATION: ELEC RM 005-2		VOLTS: 120/208 Wye		GROUND BUS: 400 A COPPER		BUS: 400 A COPPER	
SUPPLIED FROM: (N) MDP		PHASES: 3		ISOLATED GROUND: MAIN: 400 A MLO		AIC: 42KA	
FEEDER SIZE: Refer to Power Riser Diagram		WIRES: 4		ISOLATED GROUND: AIC: 42KA		LUGS:	
MANUFACTURER: REFER TO SPECIFICATIONS		MOUNTING: SURFACE		NEUTRAL: 100%		LUGS:	

CKT	CIRCUIT DESCRIPTION	WIRE SIZE	TRIP	POLES	A	B	C	POLES	TRIP	WIRE SIZE	CIRCUIT DESCRIPTION	CKT	
1	AHU-1: BASEMENT	3#8
G	35	3	2.9	0.1		1	20	2#12#12G	CUH-1: 1ST FLR VESTIBULE	2	
3						2.9	0.1		1	20	2#12#12G	CUH-2: BASEMENT VESTIBULE	4
5							2.9	0.7	1	20	2#12#12G	EF-1: BASEMENT BR 016	6
7	EF-2: BASEMENT BR 013	2#12#12G	20	1	0.7	0.1		1	20	2#12#12G	EF-3: BASEMENT BR 007	8	
9	EF-4: ON ROOF FOR TLT RM 104	2#12#12G	20	1			0.2	0.5	1	15'	2#12#12G	B-1: ELEC ROOM	10
11							11.5	8.3					12
13	RTU-1: ROOF	3#2G	110	3	11.5	8.3		3	60	3#6
G	CU-1: ROOF	14	
15						11.5	8.3					16	
17	REC: ELEVATOR SUMP PUMP	2#12#12G	20	1			0.9	0.1	1	20	2#12#12G	WATER HEATER PUMP	18
19	B-2: ELEC ROOM	2#12#12G	15'	1	0.5	0.2		1	20	2#12#12G	ELEVATOR CONTROLLER	20	
21							0.9	3.1					22
23	RF-1: MECH RM	3#12#12G	20	3			0.9	3.1	2	40	2#6
G	REC: STOVE/OVEN STAFF RM 011	24
25							0.9	0.3					26
27	BOILER EPO CIRCUIT	2#12#12G	20	1			0.4	0.3	3	20	3#12#12G	P-1: ELEC RM	28
29								0.3	0.3				30
31	P-2: ELEC RM	3#12#12G	20	3	0.3	0.0			--	--	SPACE	32	
33							0.3	0.0	--	--	SPACE	34	
35	SPARE						0.0	0.0	--	--	SPACE	36	
37	SPARE						0.0	0.0	--	--	SPACE	38	
39	SPARE						0.0	0.0	--	--	SPACE	40	
41	SPARE						0.0	0.0	--	--	SPACE	42	

LOAD CLASSIFICATION	CONNECTED...	DEMAND...	DEMAND LOAD	TOTAL CONNECTED LOAD:	83 kVA	231 A
HEATING	0.12 kVA	100%	0.12 kVA	TOTAL DEMAND LOAD:	90 kVA	248 A
Motor	27.678 kVA	122%	33.873 kVA	TOTAL DEMAND PLUS 25%:	111.875...	311 A
Other	9.854 kVA	100%	9.854 kVA			
POWER	0.96 kVA	100%	0.96 kVA			
HVAC	44.693 kVA	100%	44.693 kVA			

NOTE: * = SHUNT TRIP BREAKER

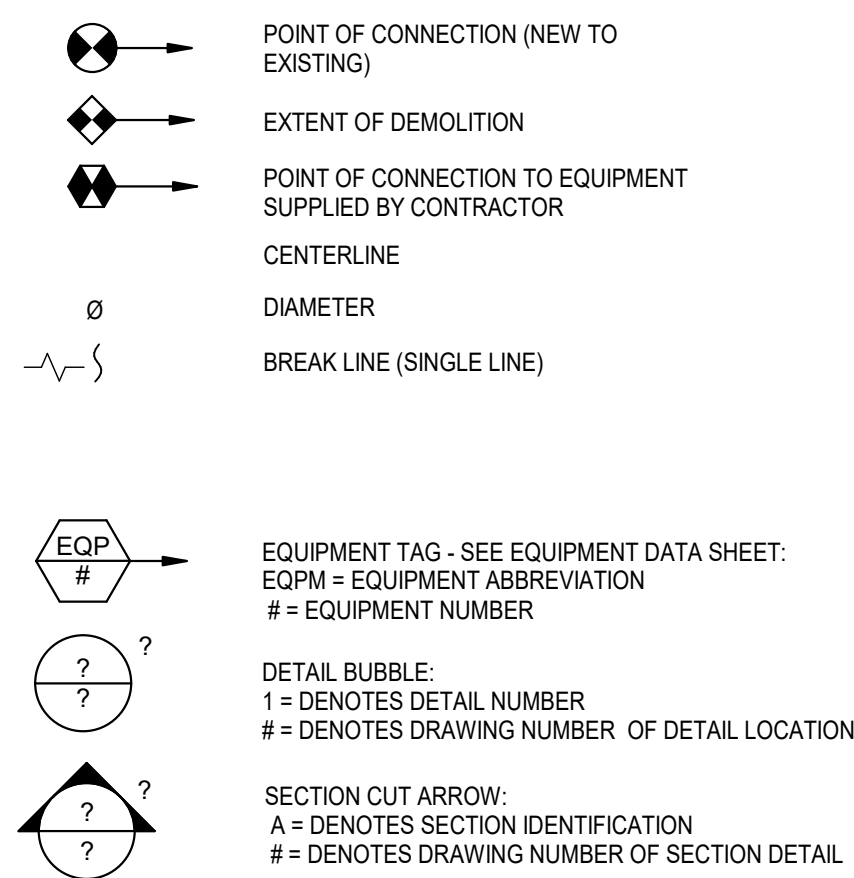
LIGHTING FIXTURE SCHEDULE

LABEL	CATALOG NUMBER	DESCRIPTION	MANUFACTURER	LUMENS	COLOR TEMP	TYPE	WATTAGE	MOUNTING
F1	LCL4-40HL-EU	4' LONG LED HIGH LUMEN STRIPLIGHT SUSPENDED 6"	COLUMBIA	6494	4000K	LED	52	SUSPENDED
F2	6L-S-D-4-04-SOF-C1-40K-D065-D01-1C-UNV	4' LONG LED LOW LUMEN STRIPLIGHT SUSPENDED 6"	LITE CONTROL	2600	4000K	LED	22	SURFACE
F2E	6L-S-D-4-04-SOF-C1-40K-D065-D01-1C-UNV-EF	4' LONG LED LOW LUMEN STRIPLIGHT SUSPENDED 6" EMERGENCY	LITE CONTROL	2600	4000K	LED	22	SUSPENDED
F3	VWGL-2	VAPORTITE WALL MOUNTED LED	HUBBELL LIGHTING	2722	4000K	LED	20	WALL
L1	CLX-L24-1500LM-SEF-WDL-MVOLT-GZ10-40K-80CRI-SKGYB	2' LONG CHAIN MOUNTED INDUSTRIAL FIXTURE, SMOKE GRAY FINISH	LITHONIA	1500	4000K	LED	11	SUSPENDED

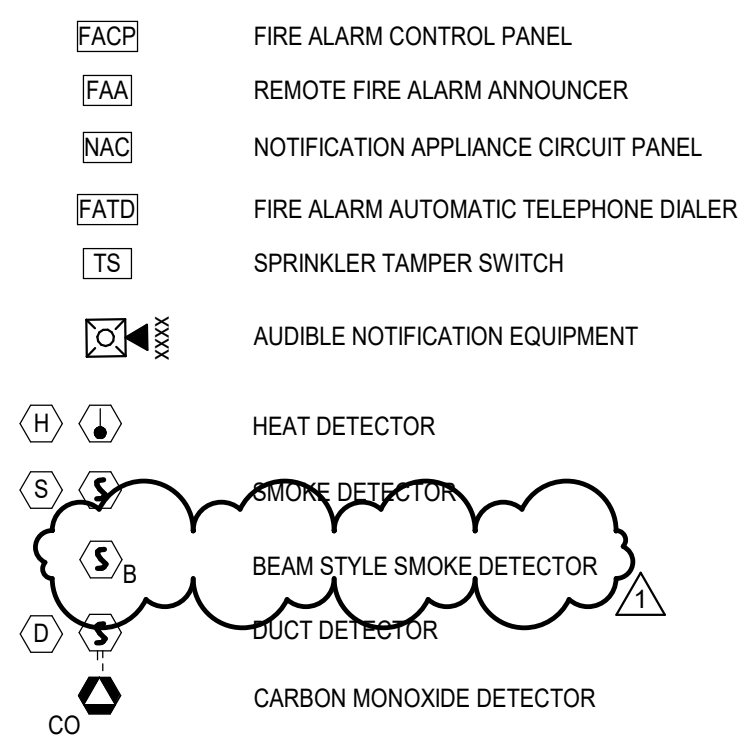
GENERAL NOTES

- RENOVATE EXISTING FIRE ALARM CONTROL PANEL AND DEVICES IN AREAS UNDER CONSTRUCTION INDICATED ON THE DOCUMENTS TO PROVIDE A COMPLETE AND FUNCTIONING FIRE ALARM CONTROL SYSTEM. COORDINATE MODIFICATIONS WITH EXISTING FIRE ALARM VENDOR. (FORTRESS PROTECTION, (856) 424-3000)
- COORDINATE LOCATIONS OF FIRE/SMOKE DAMPERS, DUCT DETECTORS AND REQUIRED SMOKE DETECTORS WITH THE HEATING VENTILATION AND AIR CONDITIONING DOCUMENTS FOR LOCATION AND QUANTITY OF DEVICES.
- MODIFY EXISTING FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA72, MANUFACTURER'S RECOMMENDATIONS, ALL APPLICABLE LOCAL BUILDING CODES AND OWNER'S INSURANCE UNDERWRITER'S REQUIREMENTS.
- FIRE ALARM SYSTEM MATERIALS SHALL BE UL LISTED AND FM GLOBAL APPROVED.
- COORDINATE THE INSTALL OF FIRE ALARM DEVICES AND WIRING WITH ALL TRADES AND DRAWINGS PRIOR TO COMMENCING INSTALLATION.
- THE CONTRACTOR SHALL CONTACT THE BUILDING ENGINEER AND BUILDING OWNER, TO ARRANGE ACCEPTANCE OF CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL OBTAIN IN WRITTEN FORM AN ACCEPTANCE OF THE CONSTRUCTION SCHEDULE FOR DEMOLITION AND NEW WORK. THE EXISTING FIRE ALARM SYSTEM DURING THE ENTIRE CONSTRUCTION WORK MUST BE OPERATIONAL. REMOVAL OF OLD DEVICES OR RELOCATION AND RECONNECTION SHALL BE COMPLETED ONE DAY BEFORE SCHEDULED TEST. PROVIDE FIRE WATCHMAN FOR ANY PERIOD OF TIME WHEN THE EXISTING FIRE ALARM SYSTEM IS DOWN WHILE THE BUILDING IS OCCUPIED. ARRANGE FOR TEST AND ACCEPTANCE IN SUCH A WAY THAT THERE WILL BE NO EXTENDED TIME INTERVAL BETWEEN COMPLETION OF CONSTRUCTION AND FIRE ALARM TEST AND APPROVAL.
- MINIMUM CONDUIT SIZE FOR BRANCH FIRE ALARM CIRCUIT SHALL BE 3/4".
- PROVIDE ALL SYSTEM COMPONENTS REQUIRED. PROVIDE COMPONENTS OF THE SAME MANUFACTURER AND MODEL NUMBERS COMPLIANT WITH THE EXISTING FIRE ALARM SYSTEM AS NOTED IN THESE DOCUMENTS.
- INSTALL, TEST AND OBTAIN FIRE MARSHAL APPROVAL OF RENOVATED FIRE ALARM SYSTEM.
- MODIFY EXISTING FIRE ALARM SYSTEM TO MEET AND EXCEED REQUIREMENTS SHOWN IN THESE CONSTRUCTION DOCUMENTS.
- THE SYSTEM SHALL BE CONTINUOUSLY ELECTRICALLY SUPERVISED AGAINST FAILURE OF ANY COMPONENTS, APPLIANCES, WIRING, SWITCHES, ELECTRICAL CONTACTS, ETC. FIRE ALARM CONTRACTOR SHALL DETECT OPEN, SHORTS, ETC. WHICH IMPAIR THE FUNCTION OF THE SYSTEM. BOTH A VISUAL AND AUDIBLE TROUBLE SIGNAL SHALL OPERATE AT THE FIRE ALARM CONTROL PANEL AND FIRE ALARM ANNUNCIATOR PANEL. FIRE ALARM CONTROL PANEL SHALL COMMUNICATE TO CENTRAL STATION VIA COMMUNICATION LINE.
- PROVIDE MINIMUM BATTERY BACKUP FOR FIRE ALARM SYSTEMS AS REQUIRED BY LOCAL CODES AND IN ACCORDANCE WITH NFPA 72.
- NUMBER OF CONDUCTORS, SIZE, TYPE AND COLOR CODE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. INSTALL PER MANUFACTURER'S WIRING DIAGRAMS.
- ALL WIRING SHALL BE INSTALLED IN METALLIC TUBING OR METAL CONDUITS. THE INSTALLATION SHALL BE IN A MANNER WHICH WILL AFFORD THE MAXIMUM PROTECTION AGAINST THE EFFECTS OF FIRE AND OTHER PHYSICAL OR ACCIDENTAL DAMAGE. WIRING SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.
- POWER SUPPLY AND FIRE ALARM CIRCUIT CONDUCTORS SHALL BE PERMITTED IN THE SAME CABLE, RACEWAY, JUNCTION BOX OR ENCLOSURE ONLY WHERE CONNECTED TO THE SAME EQUIPMENT.
- PROVIDE DUCT SMOKE DETECTORS IN THE AHU RETURN AIR DUCTS AND/OR IN SUPPLY AIR AS INDICATED ON MECHANICAL DRAWINGS AND/OR FIRE ALARM DRAWINGS. PROVIDE INTERLOCK WITH EACH AHU'S SUPPLY AIR FAN MOTOR STARTER AND/OR THE RETURN AIR FAN STARTERS TO SHUT DOWN FANS ON INITIATION OF DUCT SMOKE DETECTOR OR ALARM SIGNAL. ACTIVATION OF DUCT SMOKE DETECTOR SHALL SEND SIGNAL TO FIRE ALARM SYSTEM. ALL DUCT SMOKE DETECTORS INSTALLED NOT IN DIRECT VIEW OR READILY ACCESSIBLE LOCATION SHALL BE INSTALLED WITH REMOTE LED INDICATOR AND TEST FEATURES. THE REMOTE LED INDICATOR WITH TEST SHALL BE INSTALLED ON THE CEILING DIRECTLY BELOW RESPECTIVE DUCT SMOKE DETECTOR OR ON THE WALL WITH DIRECTORY OR PLAN OF SMOKE DETECTOR LOCATION WHERE THERE IS NO CEILING. THE DUCT SMOKE DETECTOR SHALL BE PROGRAMMABLE TO PROVIDE A SUPERVISORY SIGNAL.
- ALL HEAT DETECTORS SHALL BE OF THE FIXED TEMPERATURE TYPE. HEAT DETECTORS INSTALLED IN NORMALLY LOCKED ROOMS SHALL BE PROVIDED WITH A REMOTE LED INDICATOR. THE REMOTE LED INDICATOR SHALL BE INSTALLED ON THE WALL NEAR ACCESS DOOR WITH DIRECTORY OR PLAN OF HEAT DETECTOR LOCATION.
- ALL FIRE ALARM SYSTEM FIELD RELAYS CONTROLLING OR DEACTIVATING ANY DEDICATED SECURITY DEVICES OR POWER CONTROLS DEVICES SHALL BE INSTALLED WITHIN 3 FEET OF THE CONTROL DEVICE.
- THE FOLLOWING SPECIFICATIONS APPLY TO ALL VISUAL ALARMS:
 - THE LAMP SHALL BE A XENON STROBE TYPE OR EQUIVALENT
 - THE COLOR SHALL BE CLEAR OR NOMINAL WHITE (IE UNFILTERED OR CLEAR FILTERED WHITE LIGHT)
 - THE MAXIMUM PULSE DURATION SHALL BE TWO-TENTHS OF ONE SECOND (0.2 SECONDS) WITH A MAXIMUM DUTY CYCLE OF 40 PERCENT. THE PULSE DURATION IS DEFINED AS THE TIME INTERVAL BETWEEN INITIAL AND FINAL POINTS OF 10 PERCENT OF MAXIMUM LIGHT.
 - THE INTENSITY WILL BE ADJUSTABLE BETWEEN 15 AND 110 CANDELA AS REQUIRED.
 - THE FLASH RATE SHALL BE A MINIMUM OF 1 HZ AND A MAXIMUM OF 3HZ.
- REINSTALL AREA SMOKE DETECTORS AS SHOWN ON FLOOR PLANS.
- COORDINATE WORK WITH ELECTRICAL, MECHANICAL OR PLUMBING EQUIPMENT SCHEDULED TO BE INTERLOCKED WITH THE MODIFIED EXISTING FIRE ALARM SYSTEM. PROVIDE ALL RE-PROGRAMMING REQUIRED.
- THE SYSTEM SHALL BE INSTALLED SO THAT TROUBLE CAN BE READILY TRACED TO A SPECIFIC FLOOR AND/OR DEVICE.
- PROVIDE AND ARRANGE THE AUDIBLE AND VISUAL ANNUNCIATION DEVICE CIRCUITS SO THERE SHALL BE A MINIMUM OF TWO CIRCUITS PER ZONE ON EVERY FLOOR AND THAT LOSS OF ONE CIRCUIT WILL NOT AFFECT MORE THAN 50% OF THE DEVICES IN A ZONE.
- MINIMUM CONDUIT SIZE FOR BRANCH FIRE ALARM CIRCUITS SHALL BE 3/4" EMT WITH COMPRESSION FITTINGS. ALL FA WIRING CONDUITS AND FITTINGS MUST BE RED OR PAINTED RED.
- LINE VOLTAGE CIRCUITS AND LOW VOLTAGE CIRCUITS SHALL RUN IN SEPARATE CONDUITS.
- ALL FIRE ALARM CABINETS AND TERMINAL BOXES SHALL BE PAINTED RED.
- PROVIDE ALL SYSTEM COMPONENTS AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY THE MANUFACTURER TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- ALL FIRE ALARM STROBES IN OPEN AREAS, GARAGES, CORRIDORS, LOBBIES AND RETAIL AREAS SHALL BE SYNCHRONIZED SO THE TOTAL FREQUENCY WILL NOT EXCEED 3HZ IN ANY SINGLE AREA OF VIEW.
- FIRE ALARM CIRCUIT AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE NEC.
- SUBMITTAL FOR FIRE ALARM SHOP DRAWINGS SHALL INCLUDE POINTS LIST WITH ALL ADDRESSES WRITTEN ON THE DRAWINGS (RISER AND FLOOR PLAN) NEXT TO EVERY DEVICE.
- RENOVATED FIRE ALARM MATRIX SHALL MATCH EXISTING.
- FIRE ALARM ABANDONED CABLES SHALL BE REMOVED.
- ALL WIRING SHALL BE COLOR CODED AND LABELED IN EVERY TERMINATION BOX.
- WIRING/CONDUCTOR MATERIAL SHALL BE SOLID OR STRANDED COPPER ONLY.
- NON-POWER LIMITED FIRE ALARM CIRCUIT TYPES NPLFP, NPLFR AND NPLF SHALL NOT BE INSTALLED EXPOSED IN DUCTS OR PLENUMS. THE CABLE TYPE NPLFP MAY BE USED ABOVE SUSPENDED CEILINGS.
- CABLES INSTALLED IN VERTICAL RUNS PENETRATING MORE THAN ONE FLOOR SHALL BE TYPE NPLFR. CABLE SHALL BE SUITABLE FOR RISER OR PLENUM USE.
- VERTICAL CABLE SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 18".
- RUNS IN METAL CONDUIT OR RNC PASSING THROUGH A FLOOR OR WALL TO THE HEIGHT OF 7' ABOVE THE FLOOR SHALL BE ADEQUATELY PROTECTED FROM PHYSICAL DAMAGE BY THE BUILDING STRUCTURE OR SOLID METAL GUARD.
- FIRE ALARM WIRING SHALL COMPLY WITH NEC 760 130(B). PLENUM RATED FIRE ALARM WIRING OUTSIDE OF CONDUIT IS ACCEPTABLE IN THE CEILING SPACES ABOVE THE OFFICE. FA WIRING SHALL BE IN CONDUIT IN EXPOSED AREAS.
- CONNECT REINSTALLED AND NEW FIRE ALARM DEVICES TO THE EXISTING ZONE WITHIN THAT AREA OF WORK.
- ALL FIRE ALARM DEVICES SHALL BE LOCATED IN CENTER OF CEILING TILES UNLESS NOTED OTHERWISE AND APPROVED.
- BEFORE ANY WORK STARTS, SUBMIT AND OBTAIN APPROVAL FROM THE AUTHORITY HAVING JURISDICTION (AHJ) OF THE INFORMATION, DATA, CALCULATIONS, DRAWINGS AND CATALOG CUTS AS REQUIRED BY NFPA 72 AND OTHER REQUIREMENTS AS MAY BE PROMULGATED BY AHJ.
- PROVIDE ALL SYSTEM COMPONENTS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED BY THE MANUFACTURER.
- PROVIDE DEDICATED 120V, 1PH, 20A CIRCUITS FOR EACH EXTENDER FIRE ALARM PANEL.
- PROVIDE 120V, 20A, 1Ø CIRCUITS TO FEED FACP. DERIVE CIRCUITS FROM EMERGENCY POWER SOURCE AS SHOWN ON THE DRAWING.
- WHERE THERE ARE A NUMBER OF POWER REQUIRING DEVICES, SUCH AS SMOKE DETECTORS, FAN RELAYS, DOOR HOLDERS, STROBE LIGHTS AND SMOKE DAMPER OPERATORS INSTALLED IN A CIRCUIT, GROUP IN NUMBERS SO POWER REQUIRED DOES NOT EXCEED 80% OF MANUFACTURER'S POWER SUPPLY RATING. PROVIDE EXTRA CAPACITY OF POWER SUPPLIES REQUIRED TO FULFILL THAT REQUIREMENT. IN ADDITION PROVIDE EXTRA BRANCH WIRING OR LARGER SIZE WIRING TO ALLEVIATE VOLTAGE DROP. INSTALL ALL DEVICES IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- ALL WIRING CONNECTIONS SHALL BE MADE IN TERMINATION CABINETS OR FA DEVICE JUNCTION BOX ONLY. WIRING SPLICES OR T-TAPS ARE NOT ALLOWED.
- END OF LINE RESISTOR WHERE USED SHALL BE INSTALLED IN THE FLOOR TERMINAL CABINET. END OF LINE RESISTOR SHALL BE ADEQUATELY LABELED TO DISTINGUISH FROM OTHER COMPONENTS OF THE FA SYSTEM. THE WIRING CONNECTION SHALL BE POINT TO POINT FROM DEVICE TO DEVICE.
- ALL SMOKE DETECTORS INSTALLED IN NORMALLY LOCKED ROOMS SHALL BE PROVIDED WITH THE REMOTE LED INDICATOR. THE REMOTE LED INDICATOR SHALL BE INSTALLED ON THE WALL NEAR ACCESS DOOR WITH DIRECTORY OR PLAN OF SMOKE DETECTOR LOCATION.
- AREA SMOKE DETECTORS SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS.
- REFER TO FIRE ALARM SYSTEM MATRIX FOR SEQUENCE OF OPERATION.
- COORDINATE WORK WITH ALL ELECTRICAL, MECHANICAL, OR PLUMBING EQUIPMENT SCHEDULED TO BE INTERLOCK WITH THE NEW FIRE ALARM SYSTEM.
- PROVIDE REQUIRED CLEARANCE AROUND THE PANELS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND NEC.
- THE FIRE ALARM SYSTEM SHALL BE DESIGNED AND INSTALLED SO ANY DAMAGE TO ANY TERMINAL UNIT WILL NOT RENDER MORE THAN ONE CIRCUIT LIMITED TO THE SINGLE ZONE OF THE ELEMENT INOPERATIVE. NO MORE THAN 50% OF FIRE ALARM DEVICES CAN BE INOPERABLE PER ZONE UPON THE CIRCUIT FAILURE.
- PROVIDE 1" CONDUIT FROM FACP TO ELEVATOR MACHINE ROOM FOR CONTROL SIGNAL AND FIRE ALARM INTERFACE. PROVIDE WIRING PER EQUIPMENT SUPPLIER.
- PROVIDE MINIMUM 3/4" CONDUIT AND REQUIRED WIRING FROM FIRE ALARM CONTROL PANEL TO ACCESS CONTROL SYSTEM FOR FIRE ALARM INTERFACE WITH ELECTRIC DOOR LOCKS. ALL STAIR AND OTHER ELECTRIC DOOR LOCKS IN THE PATH OF THE EGRESS SHALL UNLOCK SIMULTANEOUSLY UPON ACTIVATION OF THE FIRE ALARM SYSTEM OR UPON LOSS OF PRIMARY POWER TO THE FIRE ALARM SYSTEM. PROVIDE CONDUIT AND CONTROL WIRING PER EQUIPMENT SUPPLIER REQUIREMENTS. PROVIDE ALL REQUIRED RELAYS, TRANSFORMERS, POWER SUPPLIES AND ALL OTHER DEVICES TO AFFECT AN INTERFACE BETWEEN THE FIRE ALARM AND SECURITY SYSTEM. AN AUXILIARY RELAY CONNECTED TO FIRE ALARM SYSTEM TO UNLOCK DESIGNATED DOORS SHALL BE LOCATED WITHIN 3' OF THE CONTROL DEVICE.
- PROVIDE MINIMUM 3/4" CONDUIT AND REQUIRED WIRING FROM FIRE ALARM CONTROL PANEL TO DOOR HOLDER CONTROLLER FOR FIRE ALARM INTERFACE. PROVIDE CONDUIT AND CONTROL WIRING PER EQUIPMENT SUPPLIER REQUIREMENTS. ALL DOOR HOLDERS SHALL BE RELEASE SIMULTANEOUSLY UPON ACTIVATION OF THE FIRE ALARM SYSTEM. PROVIDE SMOKE DETECTOR AT EACH SMOKE DOOR WHERE SHOWN ON THE DRAWING. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED RELAYS, TRANSFORMERS, POWER SUPPLIES AND ALL OTHER DEVICES TO AFFECT AN INTERFACE. AN AUXILIARY RELAY CONNECTED TO FIRE ALARM SYSTEM SHALL BE LOCATED WITHIN 3' OF CONTROL DEVICE.
- PROVIDE MINIMUM 3/4" CONDUIT AND REQUIRED WIRING FROM FIRE ALARM CONTROL PANEL TO HVAC SHUTDOWN EQUIPMENT FOR FIRE ALARM INTERFACE. PROVIDE CONDUIT AND WIRING PER EQUIPMENT SUPPLIER REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED RELAYS, TRANSFORMERS, POWER SUPPLIES AND ALL OTHER DEVICES TO AFFECT AN INTERFACE BETWEEN THE FIRE ALARM SYSTEM AND BUILDING MANAGEMENT SYSTEM. AN AUXILIARY RELAY CONNECTED TO THE FIRE ALARM SYSTEM SHALL BE LOCATED WITHIN 3' OF THE CENTRAL DEVICE.
- PROVIDE EXTERIOR HORN AND VISUAL DEVICE ON EXTERIOR OF THE BUILDING AT LOCATION OF FIRE DEPARTMENT ACCESS. COORDINATE EXACT LOCATION WITH DIRECTOR OF FACILITIES AND FIRE MARSHALL.

GENERAL SYMBOLS



FIRE ALARM SYMBOLS



FIRE ALARM DRAWING LIST	
SHEET NUMBER	DRAWING TITLE
FA001-L	FIRE ALARM INDEX SHEET
FA100-L	FIRE ALARM DEMOLITION - BASEMENT
FA101-L	FIRE ALARM DEMOLITION - FIRST FLOOR
FA200-L	FIRE ALARM PROPOSED - BASEMENT
FA201-L	FIRE ALARM PROPOSED - FIRST FLOOR
FA202-L	FIRE ALARM PROPOSED - ATTIC
FA300-L	FIRE ALARM RISER AND MATRIX

REVISIONS

DATE	ISSUE	DESCRIPTION
09/29/22	1	ISSUE FOR BID
09/07/22	0	ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR

SEAL:



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Philadelphia PA 19103



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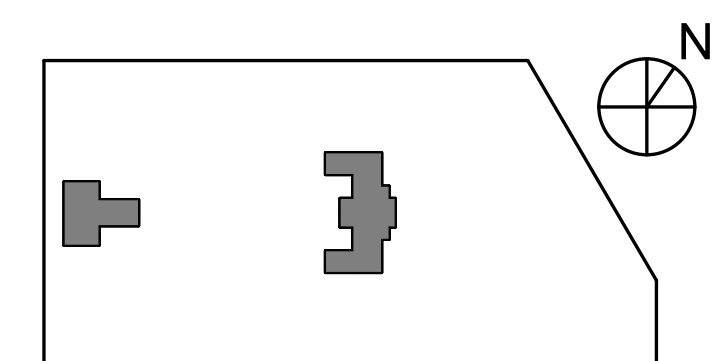
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PROJECT TITLE

**KINGESSING BUILDING
AND SITE
IMPROVEMENTS**

KEY PLAN



DRAWING TITLE

FIRE ALARM INDEX SHEET

PROJECT NO.

KLMLX21003

DATE

09/07/2022

SCALE

AS NOTED

DRAWN BY:

NSL

CHECKED BY:

JR

NOTE:

ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

FA001-L

REVISIONS		
DATE	ISSUE	DESCRIPTION
09/29/22	1	ISSUE FOR BID
09/07/22	0	ISSUE FOR BID

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE TO VISIT THE PROJECT SITE AND VERIFY ALL QUANTITIES AND LOCATIONS OF ALL EQUIPMENT AND DEVICES THAT ARE TO BE DEMOLISHED PRIOR TO BID. REFER TO DEMOLITION NOTES FOR ADDITIONAL INFORMATION.
- REUSE ANY EXISTING CONDUIT IF EQUIPMENT OR DEVICE IS REPLACED IN KIND - MATCH SURFACE NEW FINISH PATCH AND MATCH FINAL SURFACE FINISHES WHERE EQUIPMENT IS REMOVED IN ITS ENTIRETY.

DEMOLITION NOTES

- EXISTING FIRE ALARM DEVICES SHALL REMAIN IN PLACE IN THIS AREA.
- DISCONNECT AND REMOVE EXISTING FIRE ALARM NOTIFICATION DEVICES.



REVIEWED BY:
PROJECT COORDINATOR:
SEALS:



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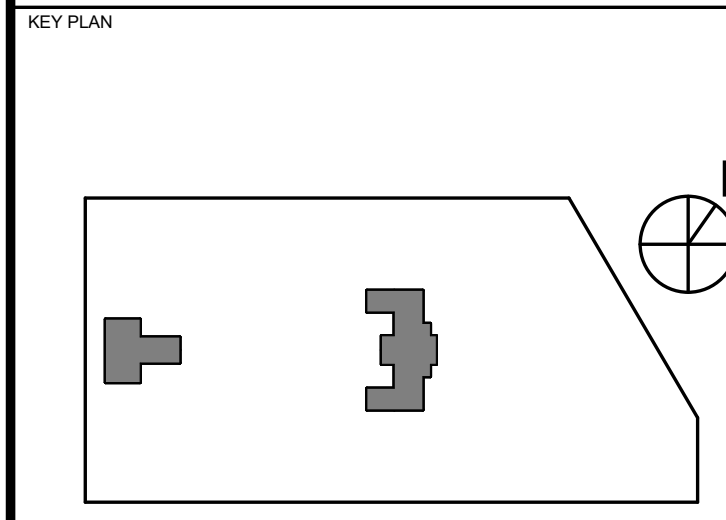
M.E.P./F.P./SITE CIVIL ENGINEERS:
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LEED CONSULTANT:
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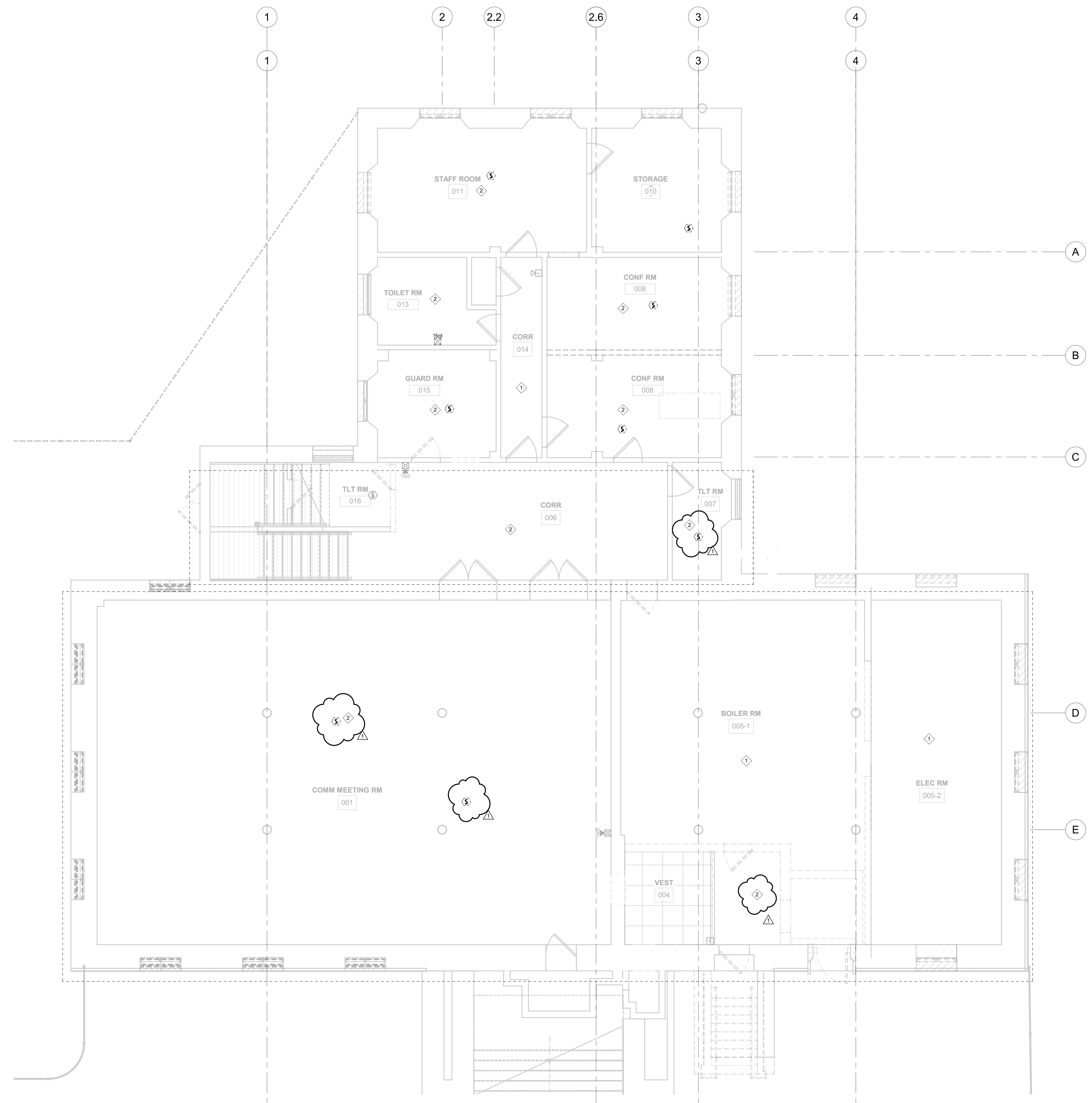
PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS



DRAWING TITLE
FIRE ALARM DEMOLITION - BASEMENT

PROJECT NO. KMLX21003	DRAWING NO. FA100-L
DATE 09/07/2022	
SCALE AS NOTED	
DRAWN BY: NSL	
CHECKED BY: JR	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE TO VISIT THE PROJECT SITE AND VERIFY ALL QUANTITIES AND LOCATIONS OF ALL EQUIPMENT AND DEVICES THAT ARE TO BE DEMOLISHED PRIOR TO BID. REFER TO DEMOLITION NOTES FOR ADDITIONAL INFORMATION.
- REUSE ANY EXISTING CONDUIT IF EQUIPMENT OR DEVICE IS REPLACED IN KIND - MATCH SURFACE NEW FINISH. PATCH AND MATCH FINAL SURFACE FINISHES WHERE EQUIPMENT IS REMOVED IN ITS ENTIRETY.
- EXISTING FIRE ALARM DEVICES AND EQUIPMENT TO REMAIN. COORDINATE EXISTING FIRE ALARM EQUIPMENT AND DEVICE LOCATIONS WITH NEW WORK LAYOUT. PROVIDE ADJUSTMENTS AS REQUIRED.

REVISIONS		
DATE	ISSUE	DESCRIPTION
09/29/22	1	ISSUE FOR BID
09/07/22	0	ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR:

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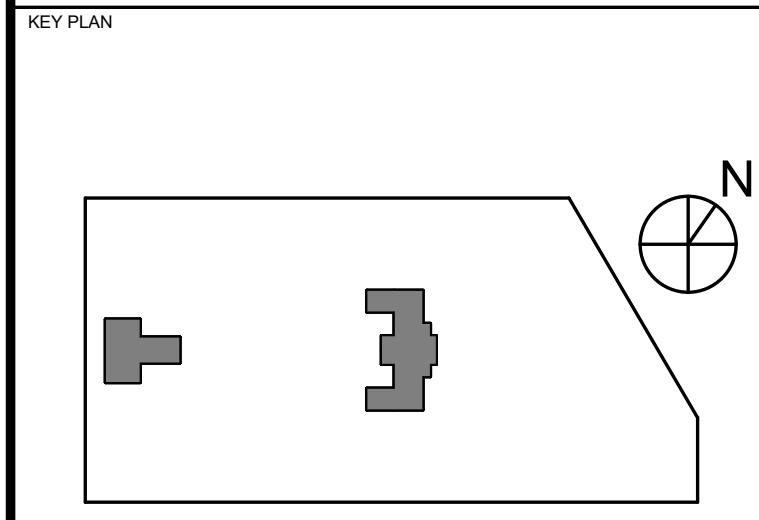
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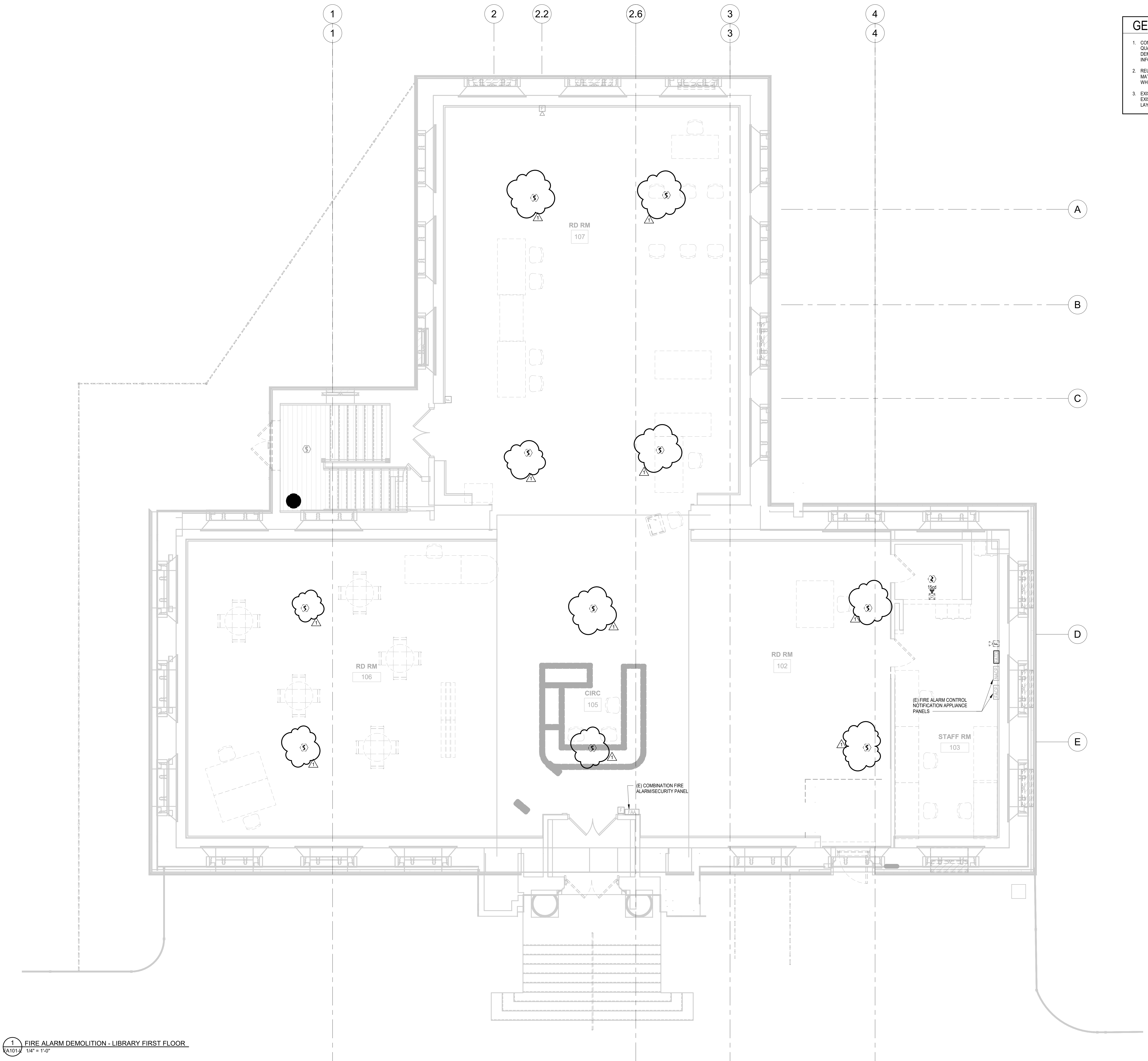
PROJECT TITLE
**KINGSESSING BUILDING
 AND SITE
 IMPROVEMENTS**



DRAWING TITLE
**FIRE ALARM DEMOLITION
 - FIRST FLOOR**

PROJECT NO. KMLX21003	DRAWING NO. FA101-L
DATE 09/07/2022	
SCALE AS NOTED	
DRAWN BY: NS	
CHECKED BY: JR	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



1 FIRE ALARM DEMOLITION - LIBRARY FIRST FLOOR
 FA101-L
 1/4" = 1'-0"

1 2 2.2 2.6 3 4
 1 3 4

GENERAL NOTES

- EXISTING FIRE ALARM DEVICES AND EQUIPMENT TO REMAIN. COORDINATE EXISTING FIRE ALARM EQUIPMENT AND DEVICE LOCATIONS WITH NEW WORK LAYOUT. PROVIDE ADJUSTMENTS AS REQUIRED.
- ALL NEW FIRE ALARM DEVICES TO BE COMPATIBLE WITH EXISTING FORTRESS PROTECTION SYSTEM. CONTACT FORTRESS PROTECTION AT (856) 424-3000 FOR COMPATIBLE DEVICES.

REVISIONS		
DATE	ISSUE	DESCRIPTION
09/29/22	1	ISSUE FOR BID
09/07/22	0	ISSUE FOR BID



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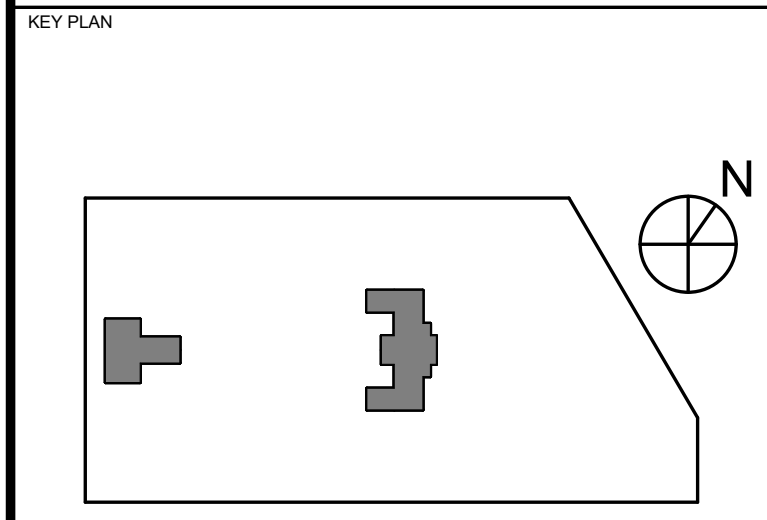
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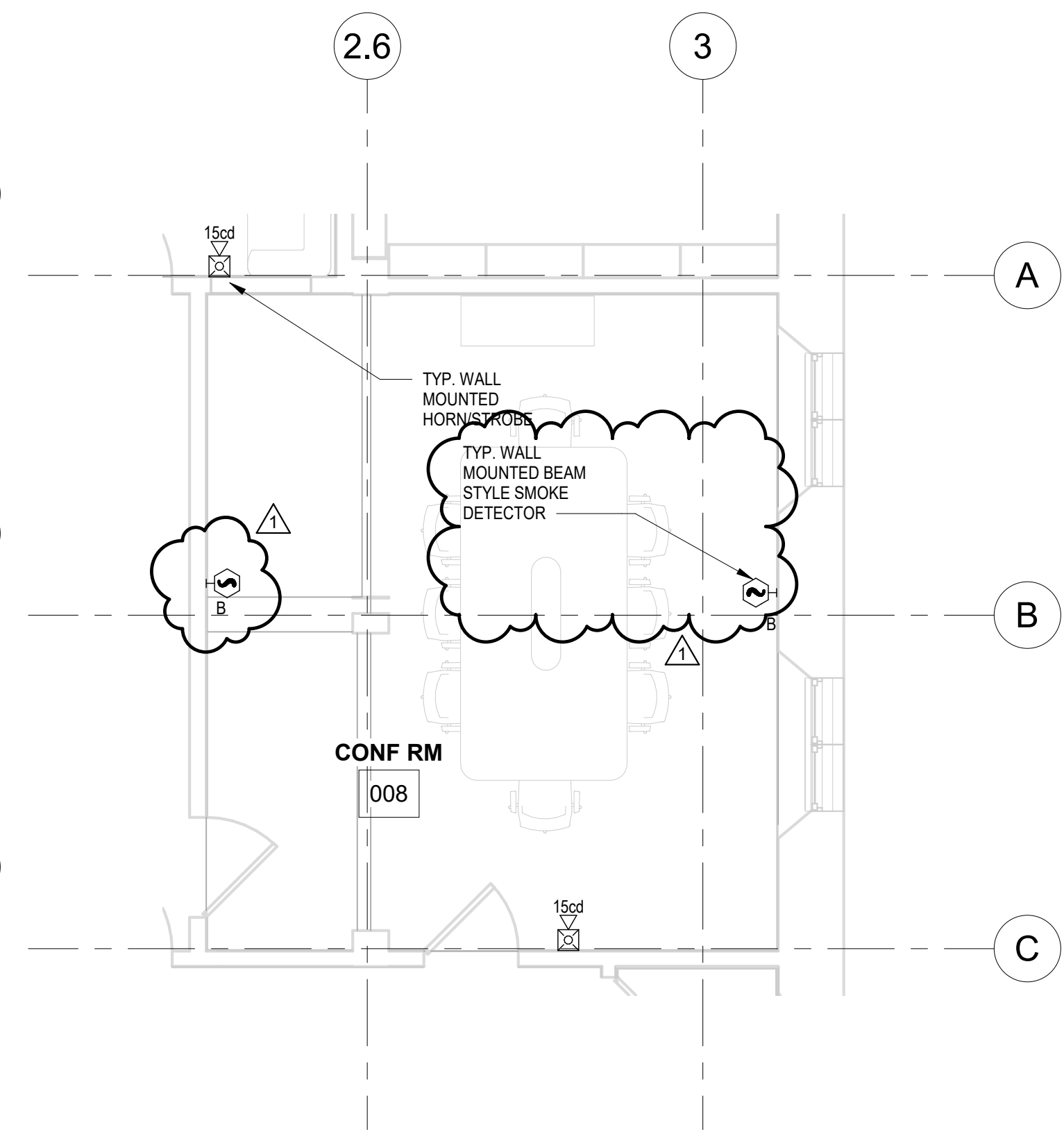
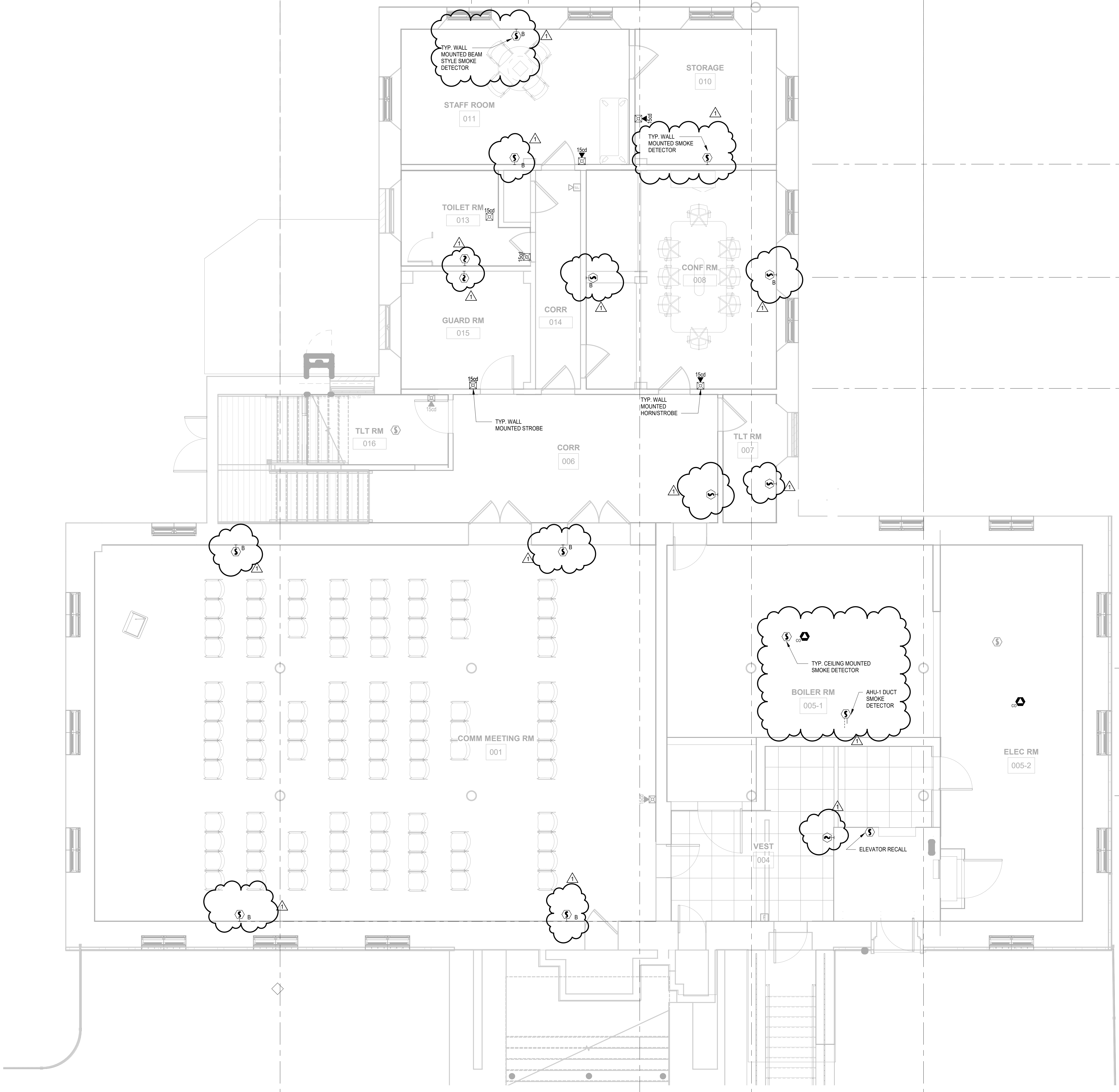
PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS



DRAWING TITLE
FIRE ALARM PROPOSED - BASEMENT

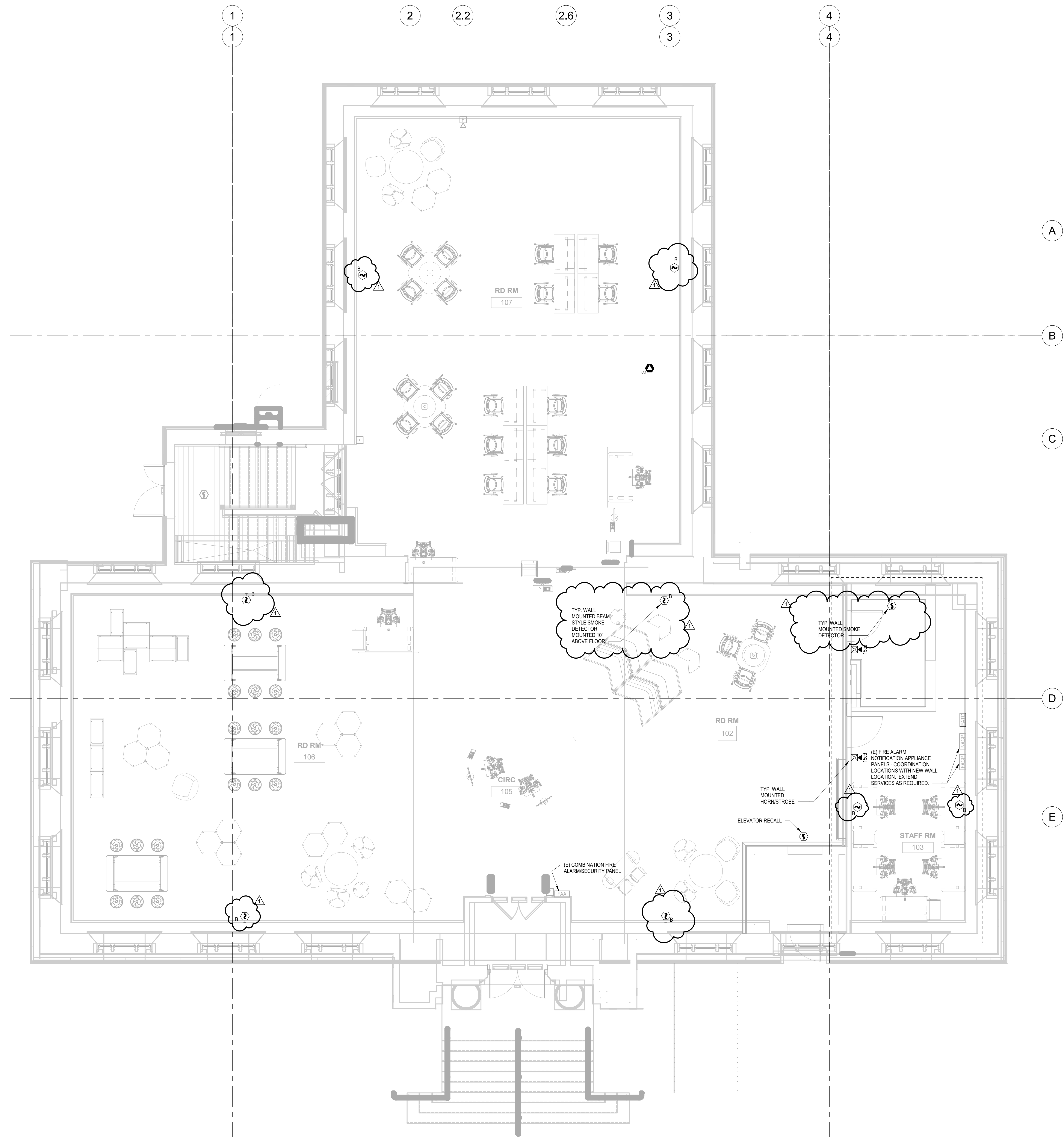
PROJECT NO. KMLX21003	DRAWING NO. FA200-L
DATE 09/07/2022	SCALE AS NOTED
DRAWN BY: NSL	CHECKED BY: JR

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



2 FIRE ALARM PROPOSED - LIBRARY LOWER LEVEL - ALTERNATE L-2
 FA200-L 1/4" = 1'-0"

1 FIRE ALARM PROPOSED - LIBRARY LOWER LEVEL
 FA200-L 1/4" = 1'-0"



GENERAL NOTES

- EXISTING FIRE ALARM DEVICES AND EQUIPMENT TO REMAIN. COORDINATE EXISTING FIRE ALARM EQUIPMENT AND DEVICE LOCATIONS WITH NEW WORK LAYOUT. PROVIDE ADJUSTMENTS AS REQUIRED.
- ALL NEW FIRE ALARM DEVICES TO BE COMPATIBLE WITH EXISTING FORTRESS PROTECTION SYSTEM. CONTACT FORTRESS PROTECTION AT (856) 424-3000 FOR COMPATIBLE DEVICES

REVISIONS		
DATE	ISSUE	DESCRIPTION
09/29/22	1	ISSUE FOR BID
09/07/22	0	ISSUE FOR BID



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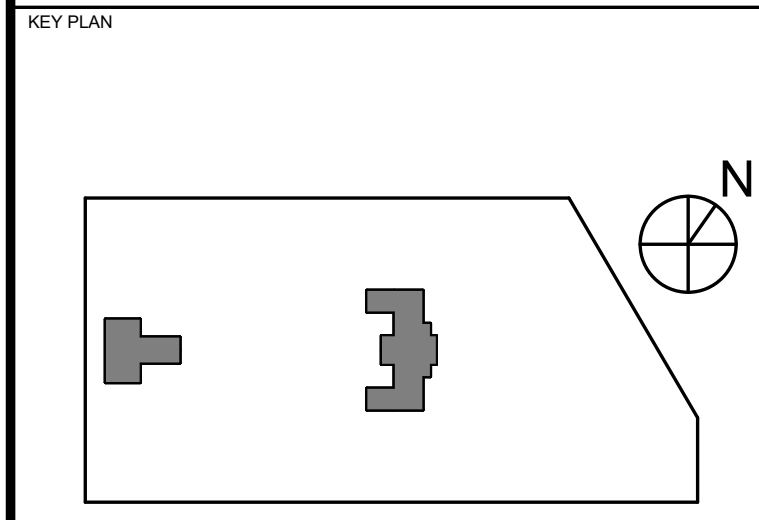
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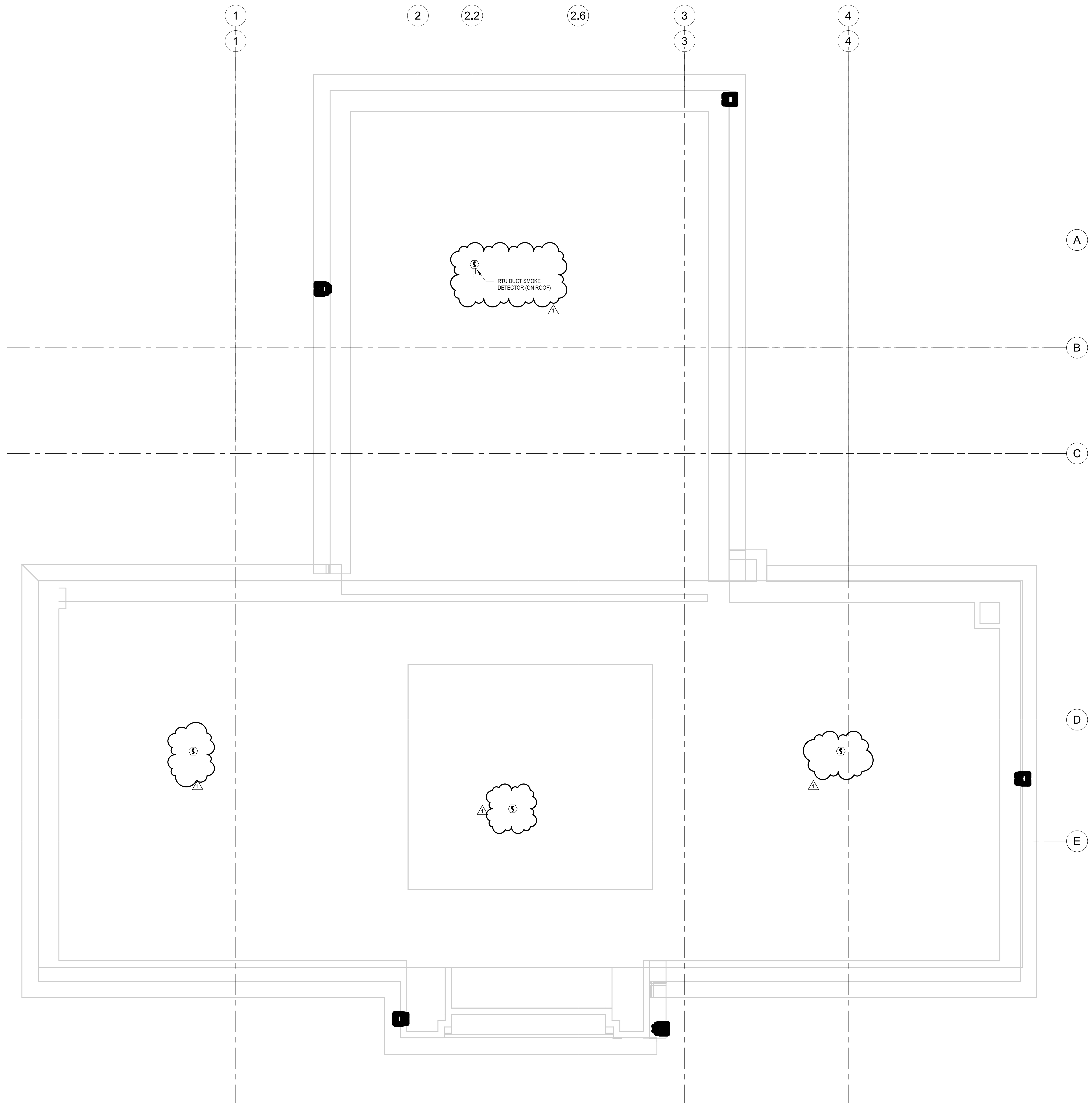
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PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS



DRAWING TITLE
FIRE ALARM PROPOSED - FIRST FLOOR

PROJECT NO. KMLX21003	DRAWING NO. FA201-L
DATE 09/07/2022	SCALE AS NOTED
DRAWN BY: NSL	CHECKED BY: JR
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.	



GENERAL NOTES

1. IF EXISTING FIRE ALARM SYSTEM IS NOT PRESENT WITHIN ATTIC SPACE, PROVIDE AND INSTALL NEW SMOKE DETECTORS AND TIE INTO EXISTING FIRE ALARM SYSTEM.

REVISIONS		
DATE	ISSUE	DESCRIPTION
09/29/22	1	ISSUE FOR BID
09/07/22	0	ISSUE FOR BID



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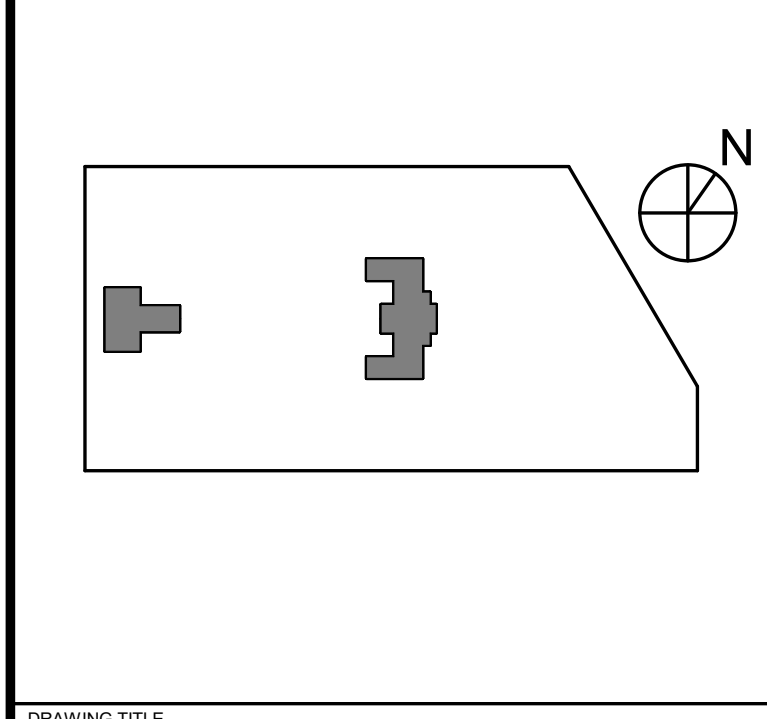
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PROJECT TITLE
**KINGSESSING BUILDING
 AND SITE
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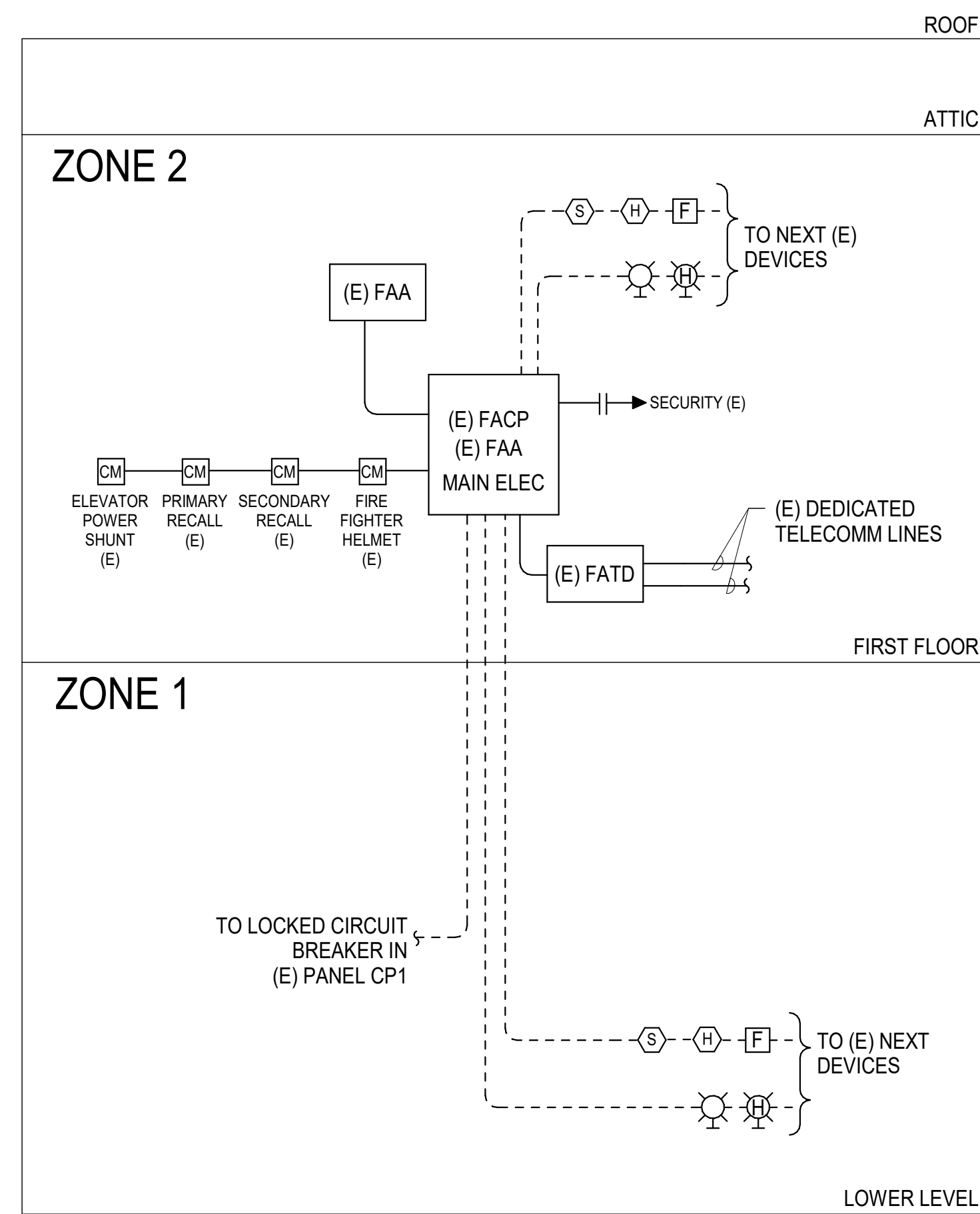


DRAWING TITLE
**FIRE ALARM PROPOSED -
 ATTIC**

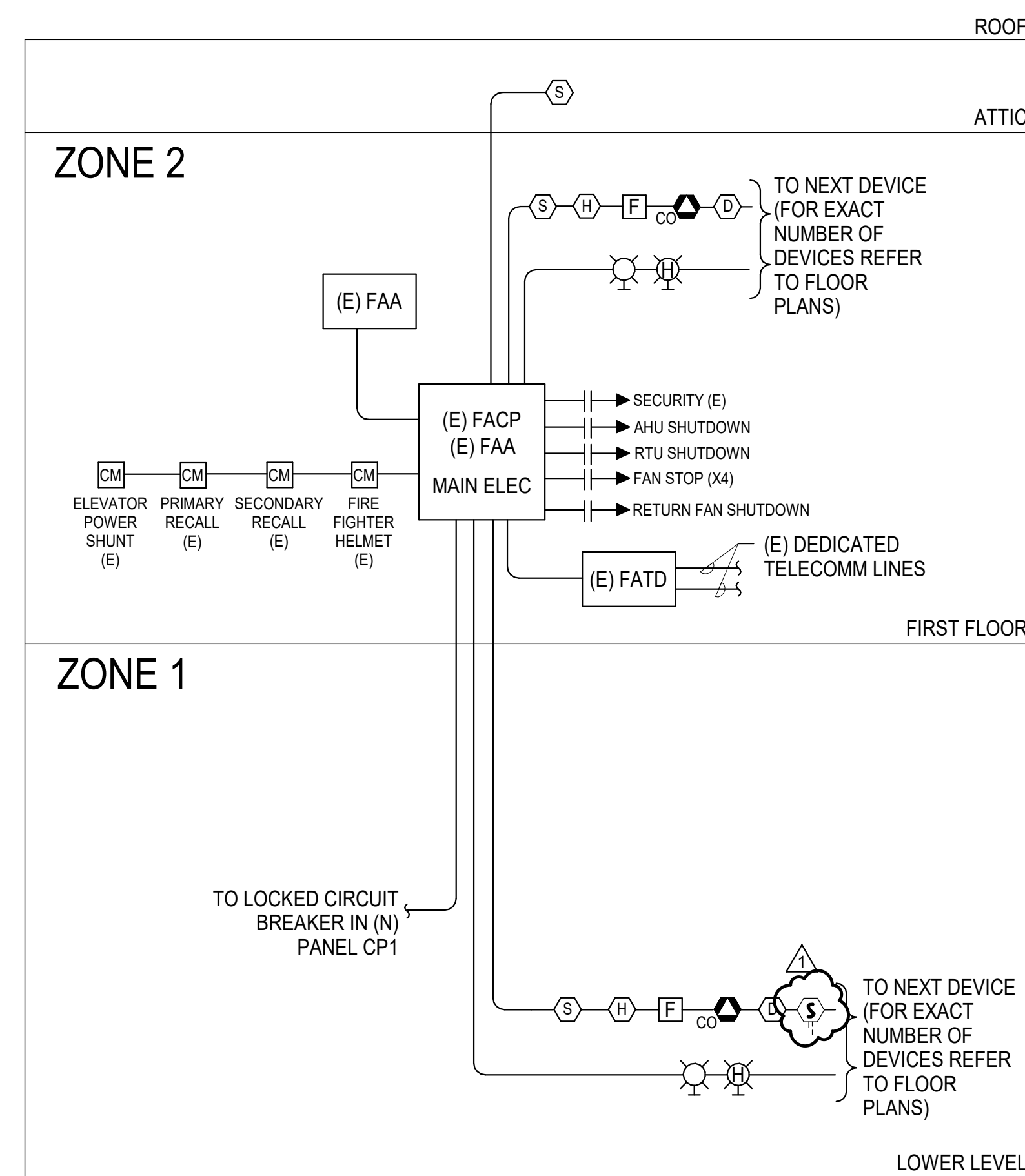
PROJECT NO. KMLX21003	DRAWING NO. FA202-L
DATE 09/07/2022	
SCALE AS NOTED	
DRAWN BY: Author	
CHECKED BY: Approver	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

1 FIRE ALARM PROPOSED - ATTIC
 KA202-L 1/4" = 1'-0"



1 FIRE ALARM RISER DIAGRAM-L EXISTING
FA300 NOT TO SCALE



2 FIRE ALARM RISER DIAGRAM-L PROPOSED
FA300 NOT TO SCALE

LOCATIONS	EVENT OR DEVICE	TROUBLE ANNUNCIATION			NOTIFICATION			CONTROL
		ANNUNCIATION	NOTIFICATION	CONTROL	ANNUNCIATION	NOTIFICATION	CONTROL	
EVERYWHERE	ANY SYSTEM MALFUNCTION	o	o		o	o	o	
	MANUAL PULL STATION		o	o	o	o	o	
	SMOKE/HEAT DETECTOR		o	o	o	o	o	
AIR HANDLING UNITS	CO DETECTOR		o	o	o	o	o	
	DUCT DETECTOR		o	o	o	o	o	o

3 FIRE ALARM MATRIX
FA300 NOT TO SCALE

REVISIONS

DATE	ISSUE	DESCRIPTION
09/29/22	1	ISSUE FOR BID
09/27/22	0	ISSUE FOR BID



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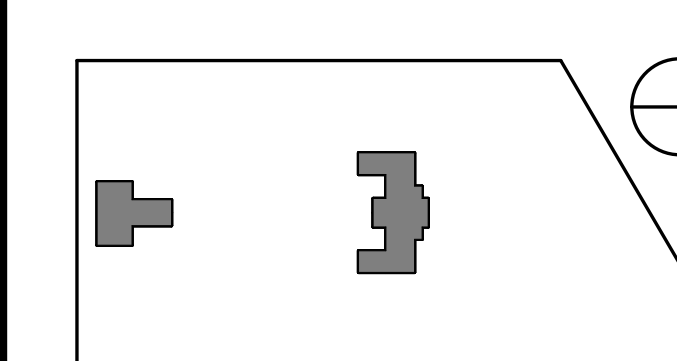
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PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS

KEY PLAN



DRAWING TITLE
FIRE ALARM RISER AND MATRIX

PROJECT NO. KMLX21003	DRAWING NO. FA300-L
DATE 09/07/2022	SCALE AS NOTED
DRAWN BY: Author	CHECKED BY: Approver

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

GENERAL SYMBOLS

	POINT OF CONNECTION (NEW TO EXISTING)
	EXTENT OF DEMOLITION
	POINT OF CONNECTION TO EQUIPMENT SUPPLIED BY CONTRACTOR
	CENTERLINE
	DIAMETER
	BREAK LINE (SINGLE LINE)
	EQUIPMENT TAG - SEE EQUIPMENT DATA SHEET. EOPM = EQUIPMENT ABBREVIATION # = EQUIPMENT NUMBER
	DETAIL BUBBLE: 1 = DENOTES DETAIL NUMBER # = DENOTES DRAWING NUMBER OF DETAIL LOCATION
	SECTION CUT ARROW: A = DENOTES SECTION IDENTIFICATION # = DENOTES DRAWING NUMBER OF SECTION DETAIL
	DRAINAGE RISER/ IDENTIFIER: S#V = WASTE STACK X = NUMBER
	SUPPLY PIPING RISER OR ROOM IDENTIFIER: CW = SERVICE TYPE X = NUMBER

LINE STYLES

	SANITARY PIPING
	VENT PIPING
	RAIN WATER CONDUCTOR
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	NATURAL GAS PIPING
	PUMP DISCHARGE PIPING
	INDIRECT WASTE PIPING
	MEDICAL AIR PIPING
	MEDICAL VACUUM PIPING
	MEDICAL OXYGEN PIPING

PLUMBING SYMBOLS

	SHUT-OFF VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	VACUUM RELIEF VALVE
	BALANCING VALVE
	T&P RELIEF VALVE (ANGLE VALVE)
	MIXING VALVE
	CHECK VALVE
	UNION
	GAS COCK
	BACKFLOW PREVENTER
	WATER HAMMER ARRESTOR
	CAPPED END
	FLOOR CLEANOUT
	FLOOR DRAIN
	ROOF DRAIN
	WALL & BELOW FLOOR CLEANOUT
	PIPE DROP AND RISE
	PIPE UP AND DOWN
	PRESSURE GAUGE
	THERMOMETER
	RECIRCULATING PUMP
	WALL HYDRANT
	HOSE BIBB
	WATER METER
	GAS METER

PLUMBING ABBREVIATIONS

AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
ABV	ABOVE
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BLW	BELOW
BWV	BACKWATER VALVE
CLG	CEILING
CONN	CONNECTION
CONT	COLD WATER
CW	COLD WATER
DF	DRINKING FOUNTAIN
DA	DIAMETER
DFU	DRAINAGE FIXTURE UNIT
DN	DOWN
EA	EACH
EL	ELEVATION
EQ	EQUAL
EWC	ELECTRIC WATER COOLER
(E)	EXISTING
EXIST	EXISTING
EX	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FLR	FLOOR
FW	FILTERED WATER
G	GAS
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
GCO	GRADE CLEANOUT
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
INV	INVERT
IW	INDIRECT WASTE
IE	INVERT ELEVATION
LAV	LAVATORY
LDR	LEADER
MAX	MAXIMUM
MGAP	MEDICAL GAS ALARM PANEL
MGVZ	MEDICAL GAS ZONE VALVE BOX
MIN	MINIMUM
MR	MOP RECEPTOR
MS	MOP SINK
MV	MIXING VALVE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NC	NOT IN CONTRACT
OFD	OVER FLOW ROOF DRAIN
PRV	PRESSURE REDUCING VALVE
RD	ROOF DRAIN
REC	RECOVERY
RPZV	REDUCED PRESSURE ZONE VALVE
(R)	REMOVE
(RE)	RELOCATE EXISTING
RWC	RAIN WATER CONDUCTOR
S	SANITARY
SH	SHOWER
SK	SINK
SP	SUMP PUMP
SS	SOIL STACK
SSK	SERVICE SINK
ST	STORM WATER
SW	SOFT WATER
TP	TRAP PRIMER
TW	TEMPERED WATER
UR	URNAL
V	VENT
VTR	VENT THRU ROOF
VST	VENT STACK
W	WASTE
WO	WITHOUT
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WFU	WATER SUPPLY FIXTURE UNITS
WH	WALL HYDRANT
WS	WASTE STACK

PLUMBING GENERAL NOTES

PLUMBING SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES INDICATED ON THIS DRAWING ARE TYPICAL. PLUMBING DRAWINGS MAY NOT INDICATE ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS DRAWING.

SAFETY REQUIREMENTS

- THE PLUMBING CONTRACTOR SHALL ABIDE AND ENFORCE ALL SAFETY RULES AND REGULATIONS SET FORTH BY THE OWNER. ALL WORKERS AND SUPERVISORS MUST ATTAIN SAFETY TRAINING CLASSES (IF APPLICABLE). THE CONTRACTOR SHALL BE RESPONSIBLE TO FOLLOW ALL VERBAL INSTRUCTIONS GIVEN BY OWNERS REPRESENTATIVES.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WARNING SIGNS, RIGGING, HANDLING AND PROTECTION OF MATERIAL. ALL EQUIPMENT MATERIALS SHALL BE NEW AND WITHOUT BLEMISHES OR DEFECTS. ALL EQUIPMENT INSTALLED SHALL BEAR THE LABEL OF THE APPROVING AGENCY.

GENERAL REQUIREMENTS

- SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES INDICATED ON THIS DRAWING ARE TYPICAL. DRAWINGS MAY NOT INDICATE ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS DRAWING.
- GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS.
- THE TERM "PROVIDE" MEANS "FURNISH AND INSTALL".
- ABIDE AND ENFORCE ALL SAFETY RULES AND REGULATIONS SET FORTH BY THE OWNER. ALL WORKERS AND SUPERVISORS MUST ATTAIN SAFETY TRAINING CLASSES (IF APPLICABLE). BE RESPONSIBLE TO FOLLOW ALL VERBAL INSTRUCTIONS GIVEN BY OWNERS REPRESENTATIVES.
- THE SUBMISSION OF A BID BY THE CONTRACTOR IS NOTIFICATION THAT THE CONTRACTOR HAS TOTALLY FAMILIARIZED HIMSELF WITH THE CONTRACTING CONDITIONS AND EXISTING SITE CONDITIONS AND HAS AGREED TO PROVIDE THE NECESSARY LABOR AND MATERIAL FOR THE COMPLETE INSTALLATION OF EACH SYSTEM IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST PRACTICES OF THE INDUSTRY AND IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.
- THESE DRAWINGS ARE PRESENTED TO THE CONTRACTOR WITH THE UNDERSTANDING THAT THE CONTRACTOR IS AN EXPERT AND COMPETENT IN THE PREPARATION OF CONTRACT BID PRICES ON THE BASIS OF INFORMATION SUCH AS IS CONTAINED IN THESE DOCUMENTS. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION AND IN COMPLETE CONFORMANCE WITH ALL APPLICABLE CODES, RULES, AND REGULATIONS. MINOR ITEMS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK AND IN THE PROPOSAL THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFOR SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO DEPARTURES SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER.
- VISIT THE SITE AND ADJOINING AREAS AND EXAMINE THE EXISTING CONDITIONS TO BECOME FAMILIAR WITH THEM AND TO DETERMINE THE DIFFICULTIES WHICH WILL AFFECT THE EXECUTION OF THE WORK OF THIS CONTRACT. THIS CONTRACTOR SHALL PERFORM THIS PRIOR TO THE SUBMISSION OF HIS PROPOSAL. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
- VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE ARCHITECT/ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.
- THE DRAWINGS INDICATE ARRANGEMENTS AND APPROXIMATE SIZES AND RELATIVE LOCATIONS OF PRINCIPAL APPARATUS, EQUIPMENT, DEVICES, AND SERVICES TO BE PROVIDED. DRAWINGS ARE DIAGRAMMATIC AND ARE A GRAPHIC REPRESENTATION OF CONTRACT REQUIREMENTS TO THE BEST AVAILABLE STANDARDS AT THE SCALE INDICATED.
- LAYOUT OF EQUIPMENT INDICATED ON THE DRAWINGS SHALL BE CHECKED AND COMPARED AGAINST ALL DRAWINGS AND SPECIFICATIONS OF ALL TRADES AND EXACT LOCATIONS DETERMINED. SHOP DRAWINGS OF SUCH EQUIPMENT, WHERE PHYSICAL INTERFERENCES OCCUR, CONSULT WITH ENGINEER AND PREPARE DATED, DIMENSIONED DRAWINGS COORDINATED WITH ALL OTHER TRADES WORKING IN THIS AREA AND CORRECTING SUCH INTERFERENCE.
- SCHEDULE WORK IN ACCORDANCE WITH THE CONSTRUCTION SCHEDULE SO THAT ALL WORK CAN BE INSTALLED WITHOUT DELAYING THE PROJECT. ALL WORK RELATED TO SHUTDOWN OF EXISTING SERVICES SHALL BE PERFORMED AT THE HOURS DESIGNATED BY THE OWNER WITH ALL ASSOCIATED COSTS BORNE BY THE CONTRACTOR AT NO COST TO THE OWNER. PROVIDE ANY TEMPORARY FACILITIES REQUIRED TO PERMIT THE OWNER'S USE OF EXISTING FACILITIES AND SYSTEMS TO REMAIN UNDISTURBED. COORDINATE ALL WORK, INCLUDING ALL SHUTDOWNS THAT AFFECT SYSTEMS AND/OR PORTIONS OF THE BUILDING THAT MUST REMAIN IN OPERATION, WITH THE OWNER AND ALL OTHER CONTRACTORS.
- SECURE AND PAY ALL FEES, LICENSES, INSPECTIONS, AND PERMITS PERTAINING TO THE CONTRACT. SUBMIT TO OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM APPROVED INSPECTION AGENCY.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- BE RESPONSIBLE FOR WORKMENS IDENTIFICATION AND BADGING, SAFETY AND FIRE PROTECTION, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.
- BE RESPONSIBLE FOR ALL RIGGING, HANDLING, AND PROTECTION OF MATERIALS. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT. ALL EQUIPMENT INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY.
- PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT, AND TRANSFER TO POINT OF INSTALLATION FOR ALL FURNISHED ITEMS.
- WHERE CONDUIT, CABLES, DUCTWORK, OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE PENETRATION SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO MAINTAIN THE UL LISTED FIRE RATING OF THE PENETRATED WALL OR FLOOR.
- BE RESPONSIBLE FOR ALL SLAB OPENINGS, WALL OPENINGS, BEAM PENETRATIONS, AND CORING AS IT RELATES TO HIS WORK. SUBMIT SIZE AND LOCATION FOR REVIEW AND APPROVAL.
- ALL EXTERIOR WALL OPENINGS SHALL BE SLEEVED, PROPERLY CAULKED, AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR.
- COORDINATE ROOF PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS. CONTRACTOR TO NOTIFY OWNER PRIOR TO STARTING WORK TO VERIFY COMPLIANCE WITH BOND AND WARRANTY OF EXISTING ROOF.
- RESTORE EXISTING SYSTEMS, DEVICES, FINISHED, ETC. DAMAGED OR ALTERED BY WORK TO ACCEPTABLE CONDITIONS AS DETERMINED BY THE OWNER, ARCHITECT, AND/OR ENGINEER. EXISTING SYSTEMS AND SERVICES THAT ARE TEMPORARILY DISCONNECTED BUT ARE TO REMAIN IN USE SHALL BE PERMANENTLY RECONNECTED AND RETURNED TO PROPER OPERATION.
- SUBMIT A SCHEDULE OF SUBMITTALS PRIOR TO SUBMITTING ANY SHOP DRAWINGS, ETC. FOR THIS PROJECT, INCLUDING THE ANTICIPATED DATE OF EACH SUBMISSION. CONTRACTORS SHALL SUBMIT FOUR (4) SETS OF COMPLETE SHOP DRAWINGS AND CATALOG CUTS, WIRING DIAGRAMS AND ASSOCIATED DATA TO THE ENGINEER FOR APPROVAL PRIOR TO PURCHASING EQUIPMENT OR STARTING ANY WORK. CONTRACTOR SHALL SUBMIT FOUR (4) PRINTS OF ALL PIPING AND DUCTWORK FIELD INSTALLATION DRAWINGS FOR EACH SYSTEM TO BE INSTALLED. ENGINEER SHALL RETAIN TWO (2) COPIES FOR RECORD AND RETURN TWO (2) COPIES TO CONTRACTOR VIA CONTRACTUAL REQUIREMENTS. ANY WORK INSTALLED OR EQUIPMENT PURCHASED PRIOR TO RECEIPT OF ENGINEER APPROVED SHOP DRAWINGS THAT REQUIRES CHANGES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- SUBMIT CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS TO BE PROVIDED. REVIEW AND APPROVE ALL SHOP DRAWINGS. NO SUBMISSION WILL BE ACCEPTED WITHOUT THE SIGNED APPROVAL OF THE CONTRACTOR. CHECK AND VERIFY ALL FIELD MEASUREMENTS.
- UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL SUPPLY THE ENGINEER WITH ONE (1) COMPLETE SET OF AS-BUILT DRAWINGS IN ELECTRONIC AUTOCAD SOFTWARE FORMAT AT CONTRACTOR'S EXPENSE AND THREE (3) COMPLETE BOUND COPIES OF OPERATION AND MAINTENANCE MANUALS. THESE SHALL BE PROVIDED TO THE OWNER AT CONTRACTOR'S EXPENSE. CONTRACTOR SHALL INSTRUCT THE OWNER'S PERSONNEL WITH REGARD TO THE PROPER OPERATION OF ALL SYSTEMS TO THE SATISFACTION OF THE OWNER.
- NOTIFY ENGINEER OF COMPLETION OF ALL WORK, INDICATING THE CONTRACTOR IS READY FOR THE ENGINEER TO PERFORM THE FINAL PUNCHLIST INSPECTION.
- OBTAIN THE SERVICES OF AN INDEPENDENT ABC OR NEBB CERTIFIED BALANCING CONTRACTOR TO ADJUST EQUIPMENT TO ACHIEVE DESIGN AIR AND WATER FLOWS. ALL REQUIRED MEASURED PARAMETERS SHALL BE PRESENTED IN THE BALANCING REPORTS IN ORDER TO PROPERLY EVALUATE THE PERFORMANCE AND CAPACITY AT THE EQUIPMENT. BELTS AND SHEAVES SHALL BE REPLACED AS REQUIRED.
- SUBMIT COPIES OF THE AIR BALANCE REPORT TO THE ENGINEER FOR APPROVAL. UPON APPROVAL, TWO COPIES SHALL BE TURNED OVER TO THE OWNER AND ONE COPY SHALL BE SUBMITTED TO THE TOWNSHIP INSPECTOR AT OR PRIOR TO FINAL INSPECTION.
- UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED, ALL WORK FURNISHED UNDER THE CONTRACT SHALL BE GUARANTEED AGAINST ANY AND ALL DEFECTS IN WORKMANSHIP AND/OR MATERIALS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE INSTALLATION. ANY DEFECTS OF WORKMANSHIP DEVELOPING DURING THIS PERIOD SHALL BE REMEDIED AND ANY DEFECTIVE MATERIAL REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.
- PREPARE FULLY DIMENSIONED FIELD SHEET METAL AND PIPING INSTALLATION DRAWINGS (MIN. 1/4"=1'-0" SCALE). THESE DRAWINGS SHALL BE FORWARDED TO ALL CONTRACTORS. EACH CONTRACTOR SHALL SUBSEQUENTLY IN SUCCESSION DELINEATE HIS RESPECTIVE WORK ON THESE COORDINATION DRAWINGS. WHEN ALL WORK HAS BEEN PROPERLY SHOWN ON THE COORDINATION DRAWINGS AND ALL CONTRACTORS AGREE THAT THEIR RESPECTIVE WORK CAN BE INSTALLED AND WILL PROPERLY FIT TOGETHER, THEY SHALL SO ACKNOWLEDGE BY ENDORSING THE DRAWINGS(S). ANY WORK DONE PRIOR TO COMPLETION OF ABOVE COORDINATION PROCESS FOUND IN CONFLICT SHALL BE REMOVED AND REPLACED AT THE RESPECTIVE CONTRACTOR'S EXPENSE.
- INSTALLED SYSTEMS SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT SOUND OR VIBRATION THAT IS OBJECTABLE TO THE ENGINEER, ARCHITECT, OR THE OWNER. OBJECTABLE SOUND OR VIBRATION CONDITIONS DUE TO WORKMANSHIP SHALL BE CORRECTED IN APPROVED MANNER BY THE CONTRACTOR AT HIS EXPENSE.
- UPON COMPLETION OF ALL UNFINISHED OR FAULTY WORK NOTED IN ENGINEER FINAL PUNCH LIST, SUBMIT TO THE ENGINEER IN WRITING A LETTER OF COMPLETION CERTIFYING THAT ALL PUNCH LIST ITEMS HAVE BEEN COMPLETED AND ALL AS-BUILTS, MANUALS, ETC. HAVE BEEN SUBMITTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SLAB AND WALL OPENINGS, BEAM PENETRATIONS AND CORING DRILLING AS IT RELATES TO HIS WORK. PLUMBING CONTRACTOR SHALL SUBMIT SIZE AND LOCATION OF ALL SLAB AND WALL OPENINGS AND BEAM PENETRATIONS, AND COR DRILLING TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.
- EFFECTIVELY PROTECT ALL MATERIAL AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE DAMAGED ITEMS AT NO ADDITIONAL COST TO OWNER.
- REFERENCED MANUFACTURERS DENOTES A MINIMUM ACCEPTABLE LEVEL OF QUALITY AND IS NOT INTENDED TO PREVENT SUBMISSION OF EQUIVALENT EQUIPMENT.
- ALL WORK BEING INSTALLED IN AIR PLENUM SPACES MUST BE INSTALLED WITH PLENUM RATED MATERIAL. ANY EXISTING NON-PLENUM RATED PLUMBING PIPE LOCATED WITHIN THESE PLENUM RATED AREAS SHALL BE WRAPPED WITH A PLENUM RATED PIPE WRAPPING MATERIAL.

PROJECT COORDINATION

- THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND COORDINATING ALL WORK WITH ALL TRADES.
- COORDINATE THE INSTALLATION OF ALL WORK WITH THE LOCAL UTILITIES AND OTHER BUILDING TRADES. THE CONTRACTOR SHALL INFORM THE OWNER IN WRITING WHEN HE INTENDS TO SCHEDULE WORK WHICH INVOLVES EXISTING SYSTEMS AND/OR UTILITIES. NOTICE SHALL BE GIVEN ONE WEEK PRIOR TO THE ANTICIPATED WORK. THE CONTRACTOR MUST RECEIVE APPROVAL FROM THE OWNER PRIOR TO PERFORMING SUCH WORK.
- PLUMBING WORK SHALL BE DONE AT SUCH A TIME AND MANNER THAT WILL LEAST INTERFERE WITH THE MAINTENANCE AND OPERATION OF THE SITE AND OR BUILDING ACTIVITIES. PROVISIONS SHALL BE MADE TO PERMIT THE USE OF ALL EXISTING PIPING SYSTEMS AT ALL TIMES. PROVIDE TEMPORARY FACILITIES TO SECURE THESE CONDITIONS AND REMOVE SUCH TEMPORARY FACILITIES WHEN NO LONGER REQUIRED.
- COORDINATE PLUMBING SYSTEM SHUT DOWN REQUIREMENTS WITH OWNER.
- WHERE SHUTDOWN PERIODS CANNOT BE OF A DURATION TO ACCOMMODATE THE NEW WORK, THE CONTRACTOR SHALL PERFORM THE WORK IN A SERIES OF PRE-PLANNED STAGES OF MINIMAL ALLOWABLE SHUTDOWN PERIODS. PROVIDE TEMPORARY FACILITIES TO ALLOW REUSE OF SERVICES BETWEEN WORKING STAGES.
- THE CONTRACTOR SHALL FURNISH A SCHEDULE INDICATING HIS PORTION OF TIME, WITHIN OVERALL SCHEDULE, REQUIRED TO COMPLETE THE WORK IN CONJUNCTION WITH ALL TRADES.
- DURING THE CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR SHALL COORDINATE WITH BUILDING REPRESENTATIVES THE TEMPORARY SHUTDOWN OR CAPPING OF ANY PLUMBING SYSTEMS.
- CONTRACTOR SHALL PROVIDE THE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT AND TRANSFER TO POINT OF INSTALLATION OWNER FURNISHED ITEMS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SLAB AND WALL OPENINGS, BEAM PENETRATIONS AND CORING DRILLING AS IT RELATES TO HIS WORK. PLUMBING CONTRACTOR SHALL SUBMIT SIZE AND LOCATION TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.

GENERAL COMPLIANCE - PA

- ALL PLUMBING MATERIAL, FIXTURES AND EQUIPMENT SHALL BE LISTED BY THE FOLLOWING APPLICABLE STANDARDS:
 - 2018 PHILADELPHIA PLUMBING CODE
 - 2018 INTERNATIONAL FUEL GAS CODE
 - 2018 INTERNATIONAL BUILDING CODE
 - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
 - AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
 - AMERICAN SOCIETY FOR TESTING MATERIAL (ASTM)
 - AMERICAN WATER WORKS ASSOCIATION (AWWA)
 - CAST IRON SOIL PIPE (CISP)
 - MANUFACTURING STANDARDIZATION SOCIETY (MSS)
 - NATIONAL FIRE ASSOCIATION (NFPA)
 - NATIONAL SANITATION FOUNDATION (NSF)
 - UNDERWRITERS LABORATORIES (UL)

PROTECTION OF WORK

- EFFECTIVELY PROTECT ALL MATERIAL AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE DAMAGED ITEMS AT NO ADDITIONAL COST TO OWNER.

REVISIONS

DATE	ISSUE	DESCRIPTION
09/07/22	0	ISSUE FOR BID



REVIEWED BY:	
PROJECT COORDINATOR:	
SEALS:	



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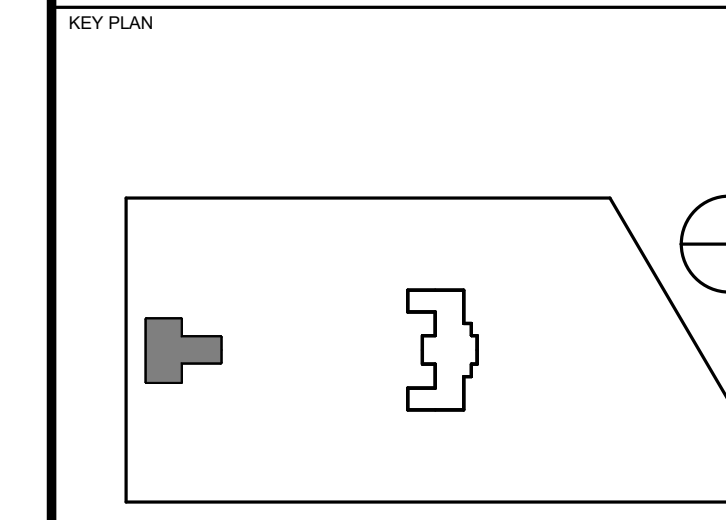
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PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS



DRAWING TITLE
PLUMBING INDEX SHEET

PROJECT NO.	KLMLX21003	DRAWING NO.	
DATE	09/07/2022		
SCALE	AS NOTED		
DRAWN BY:	LJP		
CHECKED BY:	RHC		
NOTE:	ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.		

ISSUE FOR BID
NOT FOR CONSTRUCTION
09/07/22

PLUMBING DRAWING LIST	
SHEET NUMBER	DRAWING TITLE
PLUMBING	
P-001-L	PLUMBING INDEX SHEET
P-100-L	PLUMBING DEMOLITION - BASEMENT
P-101-L	PLUMBING DEMOLITION - FIRST FLOOR
P-102-L	PLUMBING DEMOLITION - ROOF
P-200-L	PLUMBING DRAINAGE PROPOSED - BASEMENT
P-201-L	PLUMBING DRAINAGE PROPOSED - FIRST FLOOR
P-202-L	PLUMBING DRAINAGE PROPOSED - ROOF
P-300-L	PLUMBING SUPPLY PROPOSED - BASEMENT
P-301-L	PLUMBING SUPPLY PROPOSED - FIRST FLOOR
P-302-L	PLUMBING SUPPLY PROPOSED - ROOF PLAN
P-400-L	PLUMBING RISER DIAGRAMS
P-500-L	PLUMBING SCHEDULES
P-600-L	PLUMBING DETAILS

REVISIONS		
DATE	ISSUE	DESCRIPTION
08/29/22	1	ADDENDUM #1
09/07/22	0	ISSUE FOR BID



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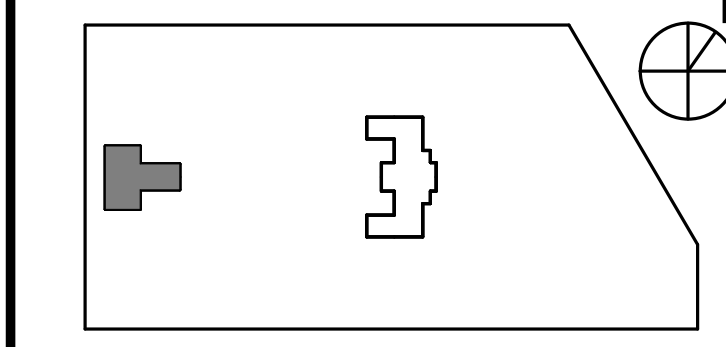
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PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS

KEY PLAN



DRAWING TITLE
PLUMBING DEMOLITION - BASEMENT

PROJECT NO. KMLX21003	DRAWING NO. P-100-L
DATE 09/07/2022	SCALE AS NOTED
DRAWN BY: LJP	CHECKED BY: RHC

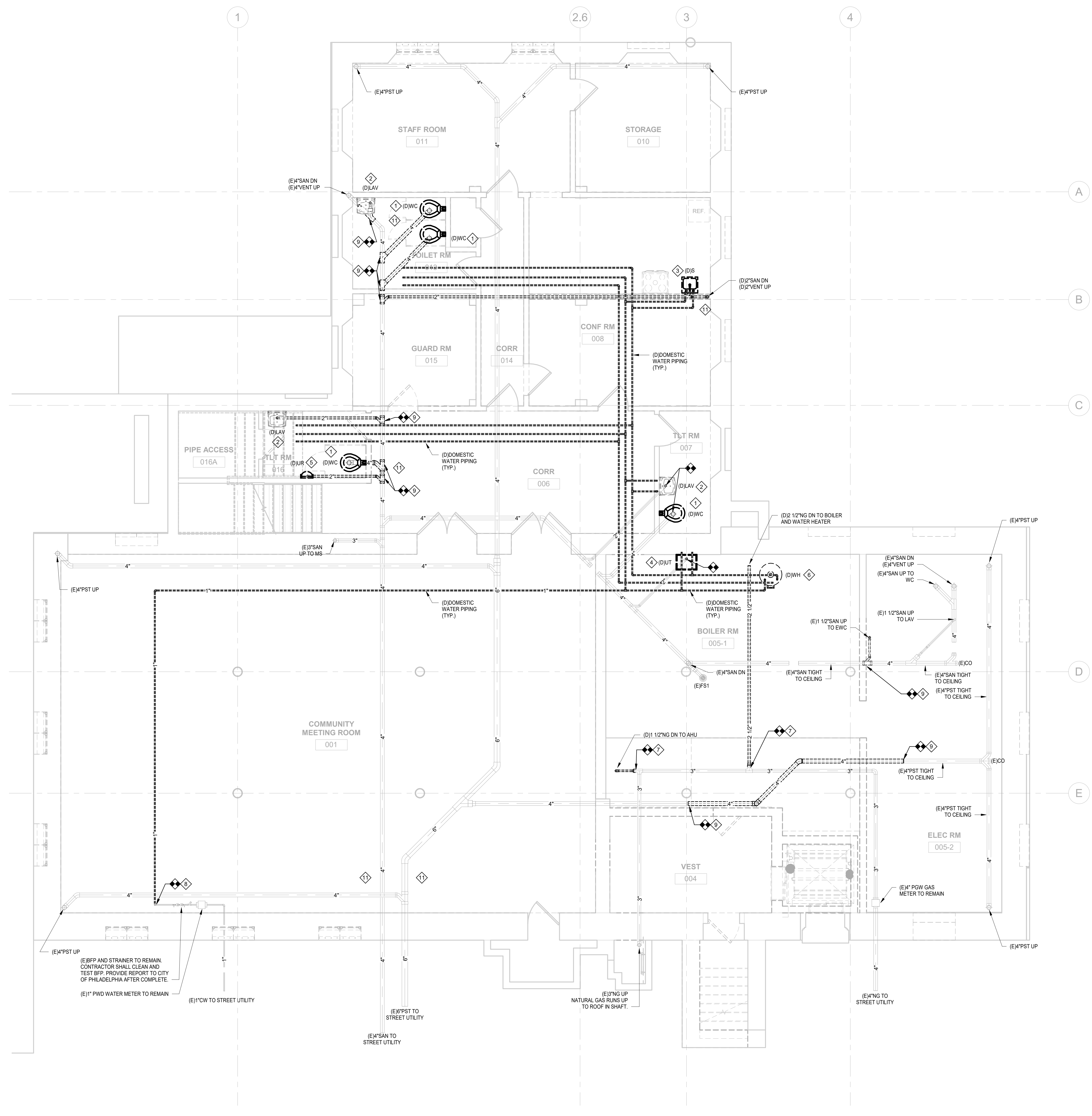
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

PLUMBING NOTES:

- REFER TO P-001-L FOR PLUMBING NOTES, LEGENDS AND ABBREVIATIONS.
- REFER TO SCHEDULES AND PLUMBING DETAILS PERTAINING TO THIS PROJECT.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPING, VALVES, & APPURTENANCES TO PROVIDE A COMPLETE WORKING SYSTEM.
- ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.
- ALL PENETRATIONS OF FIRE RATED CONSTRUCTION SHALL MAINTAIN THE FIRE RATING OF THE ASSEMBLY AS PER THE INTERNATIONAL BUILDING CODE.
- COORDINATE ELECTRICAL INSTALLATION WITH ELECTRICAL DESIGN DRAWINGS.
- ALL SANITARY AND STORM PIPING OF 4" IN SIZE OR GREATER SHALL BE PITCHED AT 1/8" SLOPE UNLESS OTHERWISE NOTED.
- ALL SANITARY AND STORM PIPING OF 3" IN SIZE OR SMALLER SHALL BE PITCHED AT 1/4" SLOPE UNLESS OTHERWISE NOTED.
- ALL VALVES AND CLEANOUTS SHALL BE INSTALLED AS ACCESSIBLE WITH ADEQUATELY SIZED ACCESS DOORS.
- PROVIDE SURSEAL, 80/100 OR EQUAL TRAP PRIMER FOR FLOOR DRAINS.
- ALL DOMESTIC WATER PIPING SHALL BE INSTALLED WITHIN THE THERMAL ENVELOPE OF THE BUILDING.
- ALL PIPING IS CONSIDERED TO BE NEW UNLESS OTHERWISE IDENTIFIED AS EXISTING TO REMAIN OR TO BE DEMOLISHED.

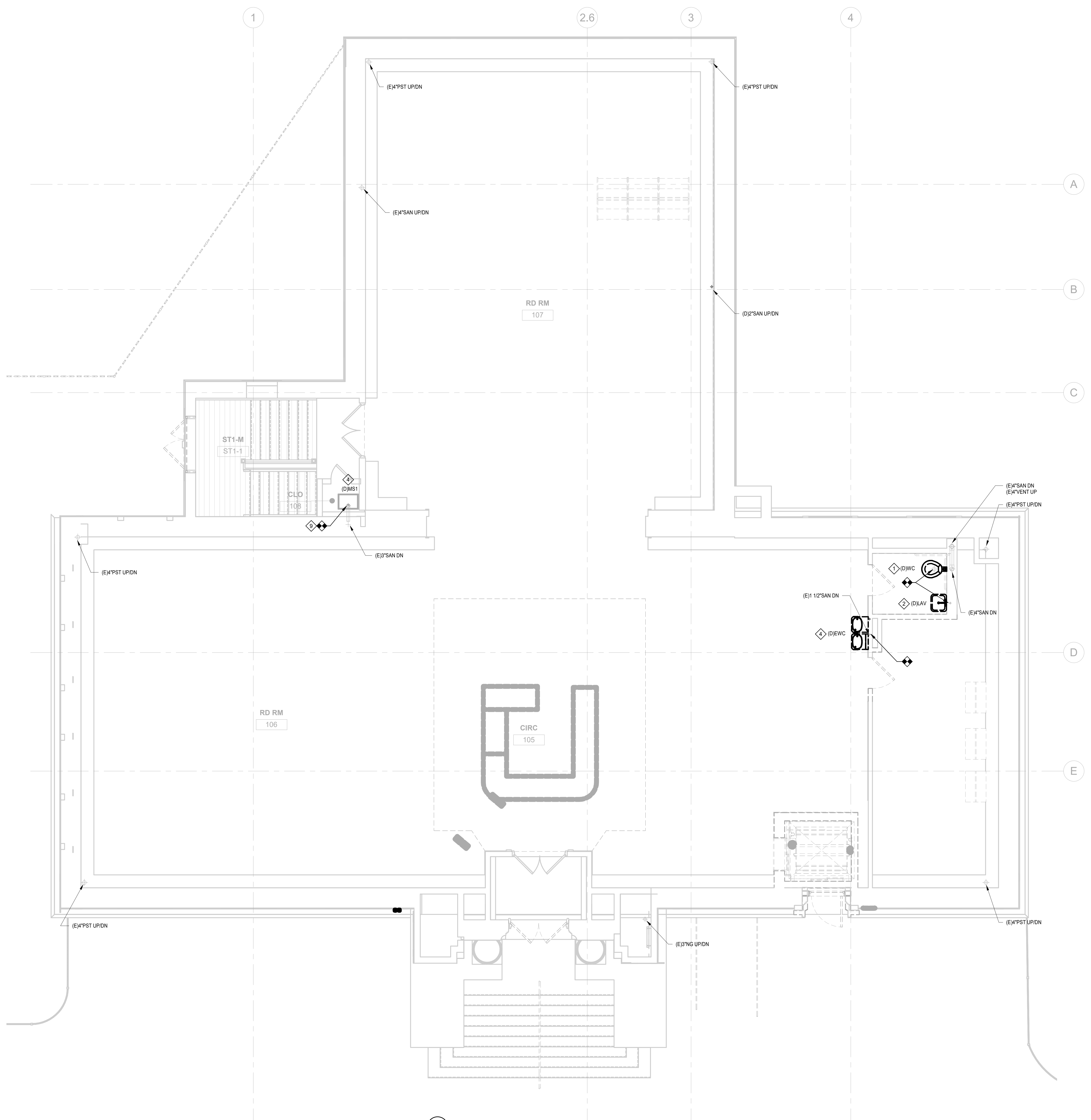
DEMOLITION KEYNOTES:

- DISCONNECT AND REMOVE EXISTING WATER CLOSET FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
- DISCONNECT AND REMOVE EXISTING LAVATORY FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
- DISCONNECT AND REMOVE EXISTING KITCHEN SINK FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
- DISCONNECT AND REMOVE EXISTING UTILITY SINK/ELECTRIC WATER COOLER FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
- DISCONNECT AND REMOVE EXISTING URINAL FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
- DISCONNECT AND REMOVE EXISTING WATER HEATER EQUIPMENT IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, TRAPS, HANGERS AND SUPPORTS.
- DISCONNECT AND REMOVE ALL NATURAL GAS PIPING TO POINT INDICATED ON PLANS IN ITS ENTIRETY, BUT NOT LIMITED TO PIPING, FITTINGS, VALVES, AND SUPPORTS.
- DISCONNECT AND REMOVE ALL DOMESTIC WATER PIPING IN THE ENTIRE BUILDING INCLUDING WATER METER AND WATER SERVICE PIPING LOCATED IN THE BASEMENT. THIS INCLUDES DOMESTIC HOT AND COLD WATER PIPING, FITTINGS, VALVES AND SUPPORTS.
- DISCONNECT AND REMOVE SANITARY/VENT OR STORM PIPING TO POINTS INDICATED ON DRAWING OR IN ITS ENTIRETY, BUT NOT LIMITED TO PIPING, FITTINGS, TRAPS, AND SUPPORTS.
- PLUMBING CONTRACTOR SHALL ABANDON PIPING IN PLACE OR BE RESPONSIBLE FOR EXISTING SLAB REMOVAL, TRENCHING, BACKFILLING AND PROVIDING NEW SLAB. THE CONTRACTOR SHALL MATCH NEW FLOORING WITH EXISTING OR PROPOSED FINISHED FLOOR. CONTRACTOR SHALL TRENCH ALL AREAS WHERE PIPING IS IDENTIFIED TO BE REMOVED. REFER TO TRENCHING, EXCAVATION, AND BACKFILLING SPECIFICATIONS.
- PRIOR TO CONSTRUCTION START THE CONTRACTOR SHALL SCOPE WITH CAMERA ALL OF THE DRAINAGE LINES (SANITARY AND STORM) TO IDENTIFY THE ROUTING OF PIPING BELOW THE SLAB. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH FLOOR PLAN HIGHLIGHTED ROUTINGS. THE DEMOLITION OF SLAB AND PIPING BELOW SLAB SHALL NOT START TILL PLANS ARE PROVIDED TO THE ENGINEER.
- DISCONNECT AND REMOVE EXISTING ROOF DRAIN IN ITS ENTIRETY, BUT NOT LIMITED TO DRAIN, STRAINER, AND SUPPORTS.



1 PLUMBING DEMOLITION - LIBRARY LOWER LEVEL
1/4" = 1'-0"

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PLUMBING NOTES:

1. REFER TO P-101-L FOR PLUMBING NOTES, LEGENDS AND ABBREVIATIONS.
2. REFER TO SCHEDULES AND PLUMBING DETAILS PERTAINING TO THIS PROJECT.
3. CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPING, VALVES, & APPURTENANCES TO PROVIDE A COMPLETE WORKING SYSTEM.
4. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.
5. ALL PENETRATIONS OF FIRE RATED CONSTRUCTION SHALL MAINTAIN THE FIRE RATING OF THE ASSEMBLY AS PER THE INTERNATIONAL BUILDING CODE.
6. COORDINATE ELECTRICAL INSTALLATION WITH ELECTRICAL DESIGN DRAWINGS.
7. ALL SANITARY AND STORM PIPING OF 4" IN SIZE OR GREATER SHALL BE PITCHED AT 1/8" SLOPE UNLESS OTHERWISE NOTED.
8. ALL SANITARY AND STORM PIPING OF 3" IN SIZE OR SMALLER SHALL BE PITCHED AT 1/4" SLOPE UNLESS OTHERWISE NOTED.
9. ALL VALVES AND CLEANOUTS SHALL BE INSTALLED AS ACCESSIBLE WITH ADEQUATELY SIZED ACCESS DOORS.
10. PROVIDE SURSEAL, 40MM OR EQUAL TRAP PRIMER FOR FLOOR DRAINS.
11. ALL DOMESTIC WATER PIPING SHALL BE INSTALLED WITHIN THE THERMAL ENVELOPE OF THE BUILDING.
12. ALL PIPING IS CONSIDERED TO BE NEW UNLESS OTHERWISE IDENTIFIED AS EXISTING TO REMAIN OR TO BE DEMOLISHED.

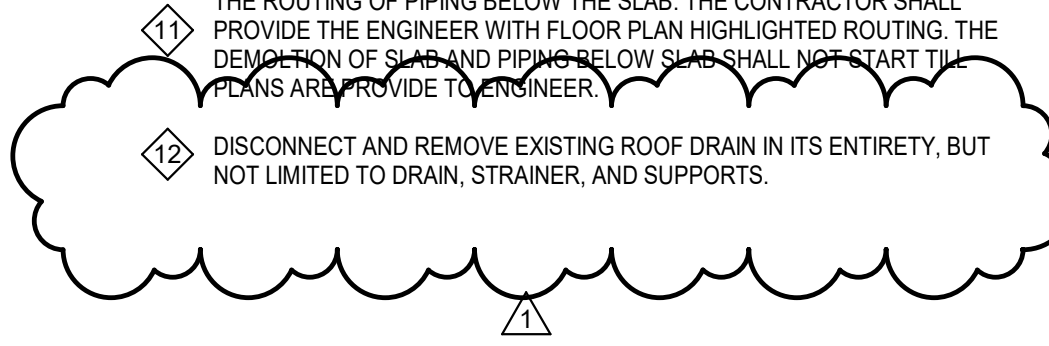
DEMOLITION KEYNOTES:

1. DISCONNECT AND REMOVE EXISTING WATER CLOSET FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
2. DISCONNECT AND REMOVE EXISTING LAVATORY FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
3. DISCONNECT AND REMOVE EXISTING KITCHEN SINK FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
4. DISCONNECT AND REMOVE EXISTING UTILITY SINK/ELECTRIC WATER COOLER FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
5. DISCONNECT AND REMOVE EXISTING URINAL FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
6. DISCONNECT AND REMOVE EXISTING WATER HEATER EQUIPMENT IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, TRAPS, HANGERS AND SUPPORTS.
7. DISCONNECT AND REMOVE ALL NATURAL GAS PIPING TO POINT INDICATED ON PLANS IN ITS ENTIRETY, BUT NOT LIMITED TO PIPING, FITTINGS, VALVES, AND SUPPORTS.
8. DISCONNECT AND REMOVE ALL DOMESTIC WATER PIPING IN THE ENTIRE BUILDING INCLUDING WATER METER AND WATER SERVICE PIPING LOCATED IN THE BASEMENT. THIS INCLUDES DOMESTIC HOT AND COLD WATER PIPING, FITTINGS, VALVES AND SUPPORTS.
9. DISCONNECT AND REMOVE SANITARY VENT OR STORM PIPING TO POINTS INDICATED ON DRAWING OR IN ITS ENTIRETY, BUT NOT LIMITED TO PIPING, FITTINGS, TRAPS, AND SUPPORTS.

PLUMBING CONTRACTOR SHALL ABANDON PIPING IN PLACE OR BE RESPONSIBLE FOR EXISTING SLAB REMOVAL, TRENCHING, BACKFILLING AND PROVIDING NEW SLAB. THE CONTRACTOR SHALL MATCH NEW FLOORING WITH EXISTING OR PROPOSED FINISHED FLOOR. CONTRACTOR SHALL TRENCH IN ALL AREAS WHERE PIPING IS IDENTIFIED TO BE REMOVED. REFER TO TRENCHING, EXCAVATION, AND BACKFILLING SPECIFICATIONS.

PRIOR TO CONSTRUCTION START THE CONTRACTOR SHALL SCOPE WITH CAMERA ALL OF THE DRAINAGE LINES (SANITARY AND STORM) TO IDENTIFY THE ROUTING OF PIPING BELOW THE SLAB. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH FLOOR PLAN HIGHLIGHTED ROUTINGS. THE DEMOLITION OF SLAB AND PIPING BELOW SLAB SHALL NOT START UNTIL THIS AREA IS PROVIDED TO ENGINEER.

10. DISCONNECT AND REMOVE EXISTING ROOF DRAIN IN ITS ENTIRETY, BUT NOT LIMITED TO DRAIN, STRAINER, AND SUPPORTS.



1 PLUMBING DEMOLITION - LIBRARY FIRST FLOOR
R-101-L 1/4" = 1'-0"

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09/07/22

REVISIONS		
DATE	ISSUE	DESCRIPTION
09/29/22	1	ADDENDUM #1
09/07/22	0	ISSUE FOR BID



REVIEWED BY:
PROJECT COORDINATOR:
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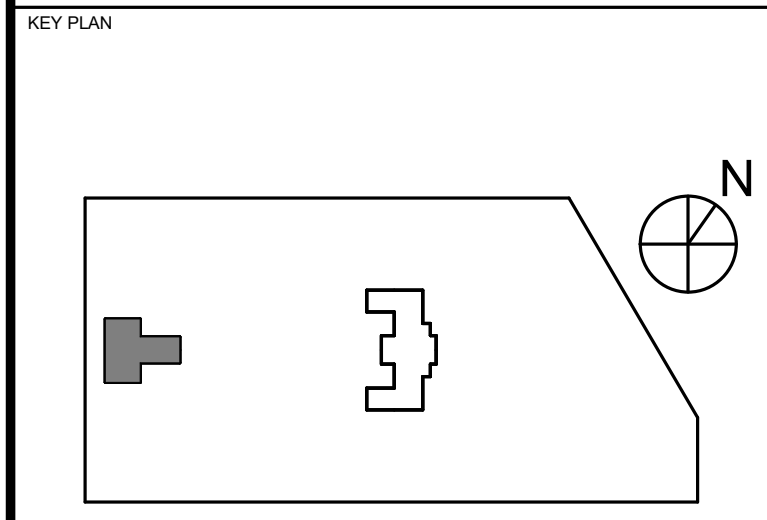
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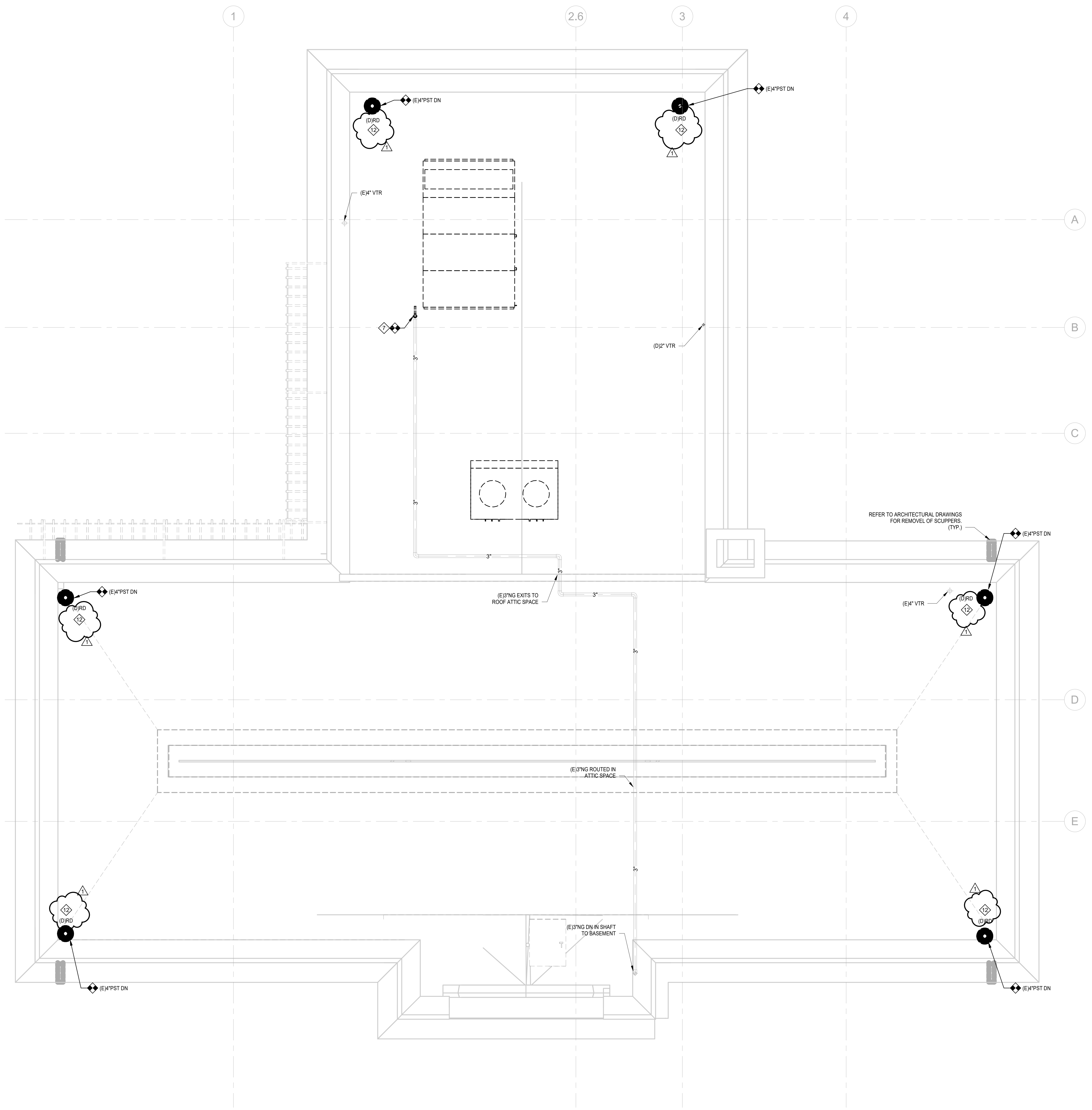
PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS



DRAWING TITLE
PLUMBING DEMOLITION - FIRST FLOOR

PROJECT NO. KMLX21003	DRAWING NO. P-101-L
DATE 09/07/2022	
SCALE AS NOTED	
DRAWN BY: LJP	
CHECKED BY: RHC	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



PLUMBING NOTES:

1. REFER TO P-102-L FOR PLUMBING NOTES, LEGENDS AND ABBREVIATIONS.
2. REFER TO SCHEDULES AND PLUMBING DETAILS PERTAINING TO THIS PROJECT.
3. CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPING, VALVES, & APPURTENANCES TO PROVIDE A COMPLETE WORKING SYSTEM.
4. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SHALL MAINTAIN ALL CLEARANCES (INSTALLATION AND MAINTENANCE) AS NOTED WITHIN THE WRITTEN INSTRUCTIONS.
5. ALL PENETRATIONS OF FIRE RATED CONSTRUCTION SHALL MAINTAIN THE FIRE RATING OF THE ASSEMBLY AS PER THE INTERNATIONAL BUILDING CODE.
6. COORDINATE ELECTRICAL INSTALLATION WITH ELECTRICAL DESIGN DRAWINGS.
7. ALL SANITARY AND STORM PIPING OF 4" IN SIZE OR GREATER SHALL BE PITCHED AT 1/8" SLOPE UNLESS OTHERWISE NOTED.
8. ALL SANITARY AND STORM PIPING OF 3" IN SIZE OR SMALLER SHALL BE PITCHED AT 1/4" SLOPE UNLESS OTHERWISE NOTED.
9. ALL VALVES AND CLEANOUTS SHALL BE INSTALLED AS ACCESSIBLE WITH ADEQUATELY SIZED ACCESS DOORS.
10. PROVIDE SURSEAL, 80/100 OR EQUAL TRAP PRIMER FOR FLOOR DRAINS.
11. ALL DOMESTIC WATER PIPING SHALL BE INSTALLED WITHIN THE THERMAL ENVELOPE OF THE BUILDING.
12. ALL PIPING IS CONSIDERED TO BE NEW UNLESS OTHERWISE IDENTIFIED AS EXISTING TO REMAIN OR TO BE DEMOLISHED.

DEMOLITION KEYNOTES:

- 1 DISCONNECT AND REMOVE EXISTING WATER CLOSET FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
- 2 DISCONNECT AND REMOVE EXISTING LAVATORY FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
- 3 DISCONNECT AND REMOVE EXISTING KITCHEN SINK FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
- 4 DISCONNECT AND REMOVE EXISTING UTILITY SINK/ELECTRIC WATER COOLER FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
- 5 DISCONNECT AND REMOVE EXISTING URINAL FIXTURE IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, DRAINAGE PIPING, TRAPS, HANGERS AND SUPPORTS.
- 6 DISCONNECT AND REMOVE EXISTING WATER HEATER EQUIPMENT IN ITS ENTIRETY, BUT NOT LIMITED TO FIXTURE, SUPPLY PIPING, TRAPS, HANGERS AND SUPPORTS.
- 7 DISCONNECT AND REMOVE ALL NATURAL GAS PIPING TO POINT INDICATED ON PLANS IN ITS ENTIRETY, BUT NOT LIMITED TO PIPING, FITTINGS, VALVES, AND SUPPORTS.
- 8 DISCONNECT AND REMOVE ALL DOMESTIC WATER PIPING IN THE ENTIRE BUILDING INCLUDING WATER METER AND WATER SERVICE PIPING LOCATED IN THE BASEMENT. THIS INCLUDES DOMESTIC HOT AND COLD WATER PIPING, FITTINGS, VALVES AND SUPPORTS.
- 9 DISCONNECT AND REMOVE SANITARY/VENT OR STORM PIPING TO POINTS INDICATED ON DRAWING OR IN ITS ENTIRETY, BUT NOT LIMITED TO PIPING, FITTINGS, TRAPS, AND SUPPORTS.
- 10 PLUMBING CONTRACTOR SHALL ABANDON PIPING IN PLACE OR BE RESPONSIBLE FOR EXISTING SLAB REMOVAL, TRENCHING, BACKFILLING AND PROVIDING NEW SLAB. THE CONTRACTOR SHALL MATCH NEW FLOORING WITH EXISTING OR PROPOSED FINISHED FLOOR. CONTRACTOR SHALL TRENCH IN ALL AREAS WHERE PIPING IS IDENTIFIED TO BE REMOVED. REFER TO TRENCHING, EXCAVATION, AND BACKFILLING SPECIFICATIONS.
- 11 PRIOR TO CONSTRUCTION START THE CONTRACTOR SHALL SCOPE WITH CAMERA ALL OF THE DRAINAGE LINES (SANITARY AND STORM) TO IDENTIFY THE ROUTING OF PIPING BELOW THE SLAB. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH FLOOR PLAN HIGHLIGHTED ROUTINGS. THE DEMOLITION OF SLAB AND PIPING BELOW SLAB SHALL NOT START TILL PLANS ARE PROVIDED TO ENGINEER.
- 12 DISCONNECT AND REMOVE EXISTING ROOF DRAIN IN ITS ENTIRETY, BUT NOT LIMITED TO DRAIN, STRAINER, AND SUPPORTS.

REVISIONS		
DATE	ISSUE	DESCRIPTION
09/29/22	1	ADDENDUM #1
09/07/22	0	ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR:

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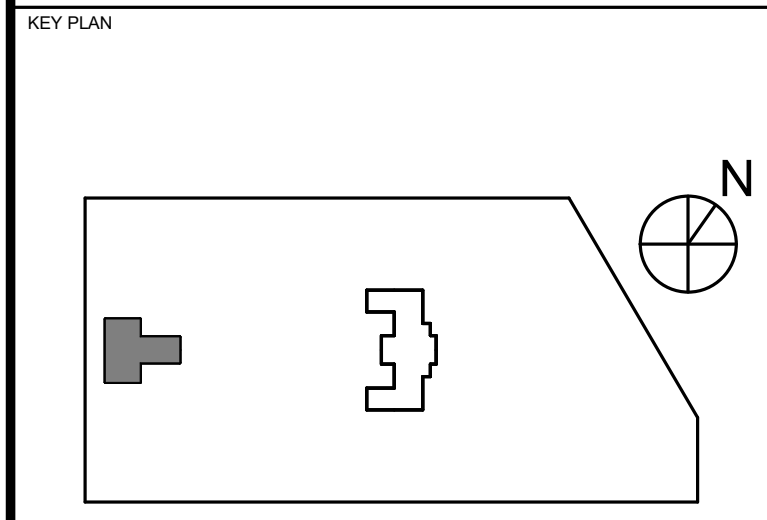
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PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS

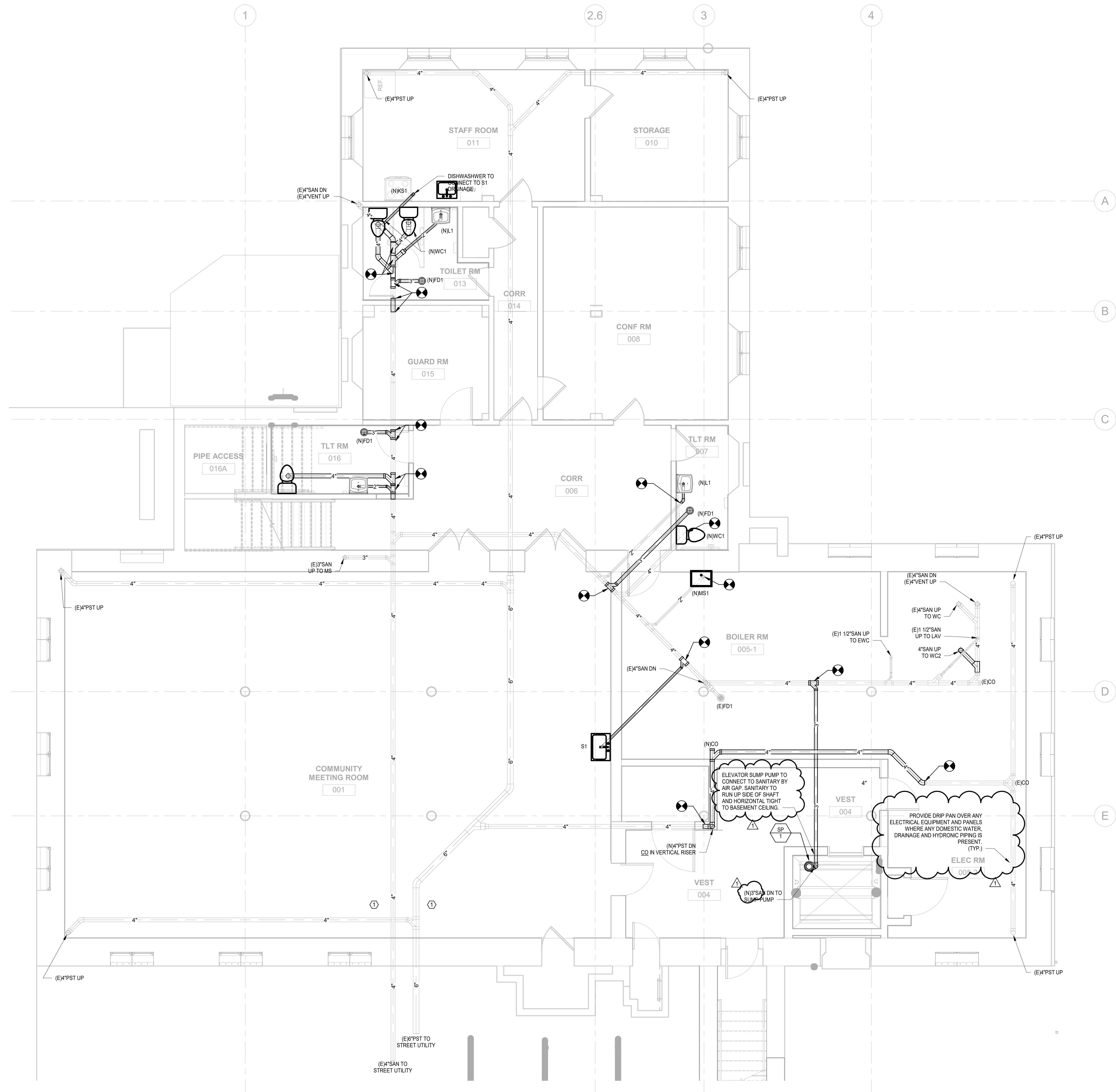


DRAWING TITLE
PLUMBING DEMOLITION - ROOF

PROJECT NO. KMLX21003	DRAWING NO. P-102-L
DATE 09/07/2022	
SCALE AS NOTED	
DRAWN BY: LJP	
CHECKED BY: RHG	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

ISSUE FOR BID
NOT FOR CONSTRUCTION
09/07/22



PLUMBING NOTES:

1. REFER TO P-0.1 FOR PLUMBING NOTES, LEGENDS AND ABBREVIATIONS.
2. REFER TO SCHEDULES AND PLUMBING DETAILS PERTAINING TO THIS PROJECT.
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5. ALL PENETRATIONS OF FIRE RATED CONSTRUCTION SHALL MAINTAIN THE FIRE RATING OF THE ASSEMBLY AS PER THE INTERNATIONAL BUILDING CODE.
6. COORDINATE ELECTRICAL INSTALLATION WITH ELECTRICAL DESIGN DRAWINGS.
7. ALL SANITARY AND STORM PIPING OF 4" IN SIZE OR GREATER SHALL BE PITCHED AT 1/8" SLOPE UNLESS OTHERWISE NOTED.
8. ALL SANITARY AND STORM PIPING OF 3" IN SIZE OR SMALLER SHALL BE PITCHED AT 1/4" SLOPE UNLESS OTHERWISE NOTED.
9. ALL VALVES AND CLEANOUTS SHALL BE INSTALLED AS ACCESSIBLE WITH ADEQUATELY SIZED ACCESS DOORS.
10. PROVIDE SURESEAL #9742 OR EQUAL TRAP PRIMER FOR FLOOR DRAINS.
11. ALL DOMESTIC WATER PIPING SHALL BE INSTALLED WITHIN THE THERMAL ENVELOPE OF THE BUILDING.
12. ALL PIPING IS CONSIDERED TO BE NEW UNLESS OTHERWISE IDENTIFIED AS EXISTING TO REMAIN OR TO BE DEMOLISHED.

NEW WORK KEYNOTES:

1. PRIOR TO CONSTRUCTION START THE CONTRACTOR SHALL SCOPE WITH CAMERA ALL OF THE DRAINAGE LINES (SANITARY AND STORM) TO IDENTIFY THE ROUTING OF PIPING BELOW THE SLAB. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH FLOOR PLAN HIGHLIGHTED ROUTING. THE DEMOLITION OF SLAB AND PIPING BELOW SLAB SHALL NOT START TILL PLANS ARE PROVIDED TO ENGINEER.

1 PLUMBING PROPOSED DRAINAGE - LIBRARY LOWER LEVEL
2-200-1 1/4" = 1'-0"

**ISSUE FOR BID
NOT FOR CONSTRUCTION
09/07/22**

REVISIONS

DATE	ISSUE	DESCRIPTION
08/29/22	1	ADDENDUM #1
09/07/22	0	ISSUE FOR BID



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PROJECT COORDINATOR

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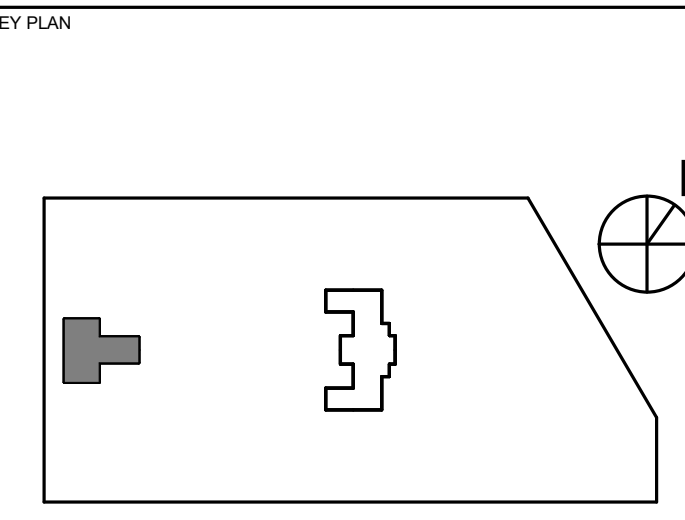
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PROJECT TITLE
**KINGESSING BUILDING
AND SITE
IMPROVEMENTS**



DRAWING TITLE
**PLUMBING DRAINAGE
PROPOSED - BASEMENT**

PROJECT NO. KMLX21003	DRAWING NO. P-200-L
DATE 09/07/2022	SCALE AS NOTED
DRAWN BY: LJP	CHECKED BY: RHG

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

REVISIONS

DATE	ISSUE	DESCRIPTION
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08/07/22	0	ISSUE FOR BID



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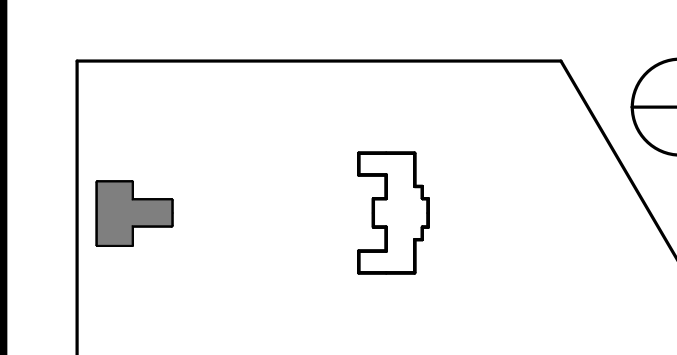
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PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS

KEY PLAN



DRAWING TITLE
PLUMBING DRAINAGE PROPOSED - FIRST FLOOR

PROJECT NO. KMLX21003	DRAWING NO. P-201-L
DATE 09/07/2022	
SCALE AS NOTED	
DRAWN BY LJP	
CHECKED BY RHG	

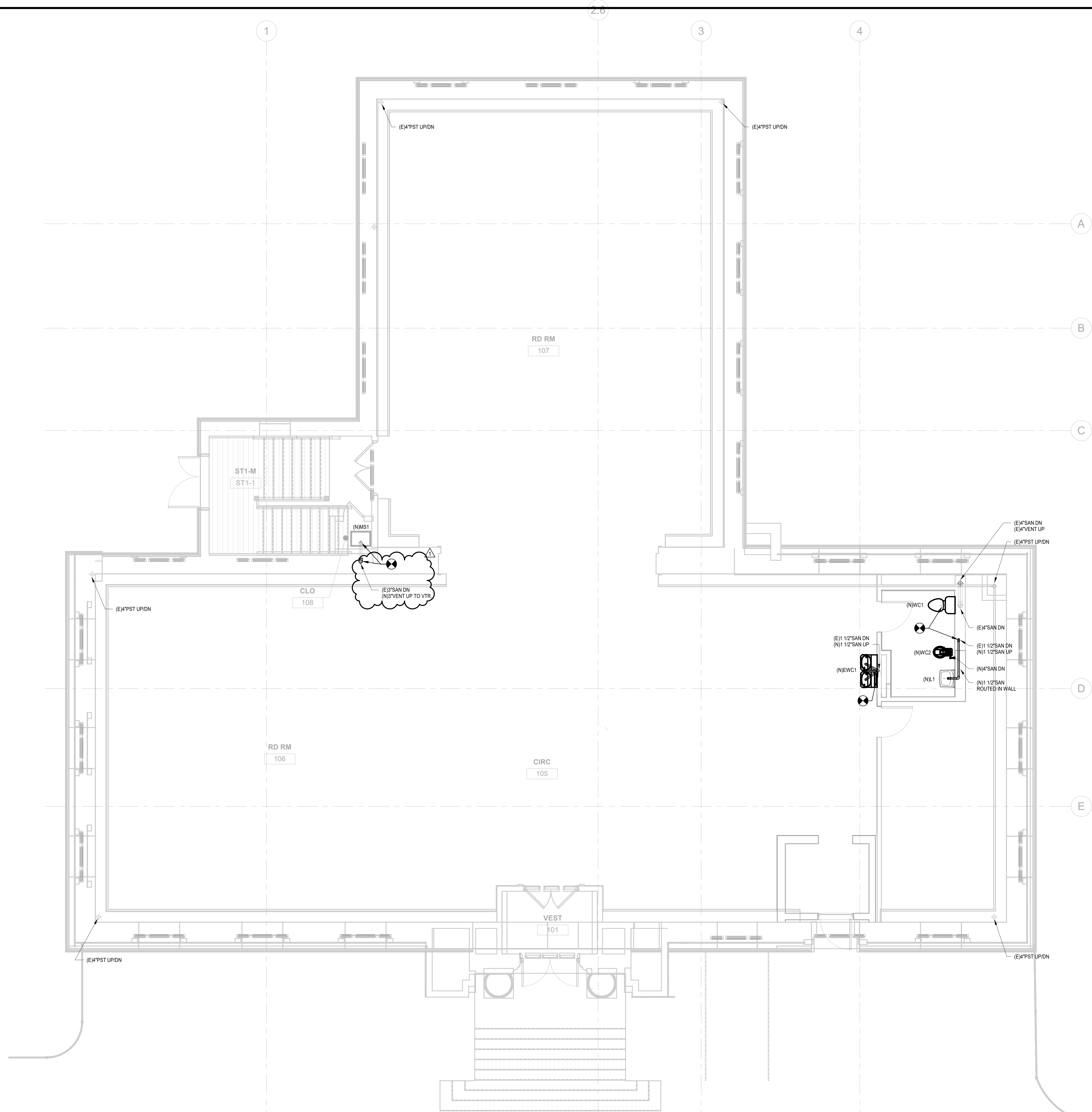
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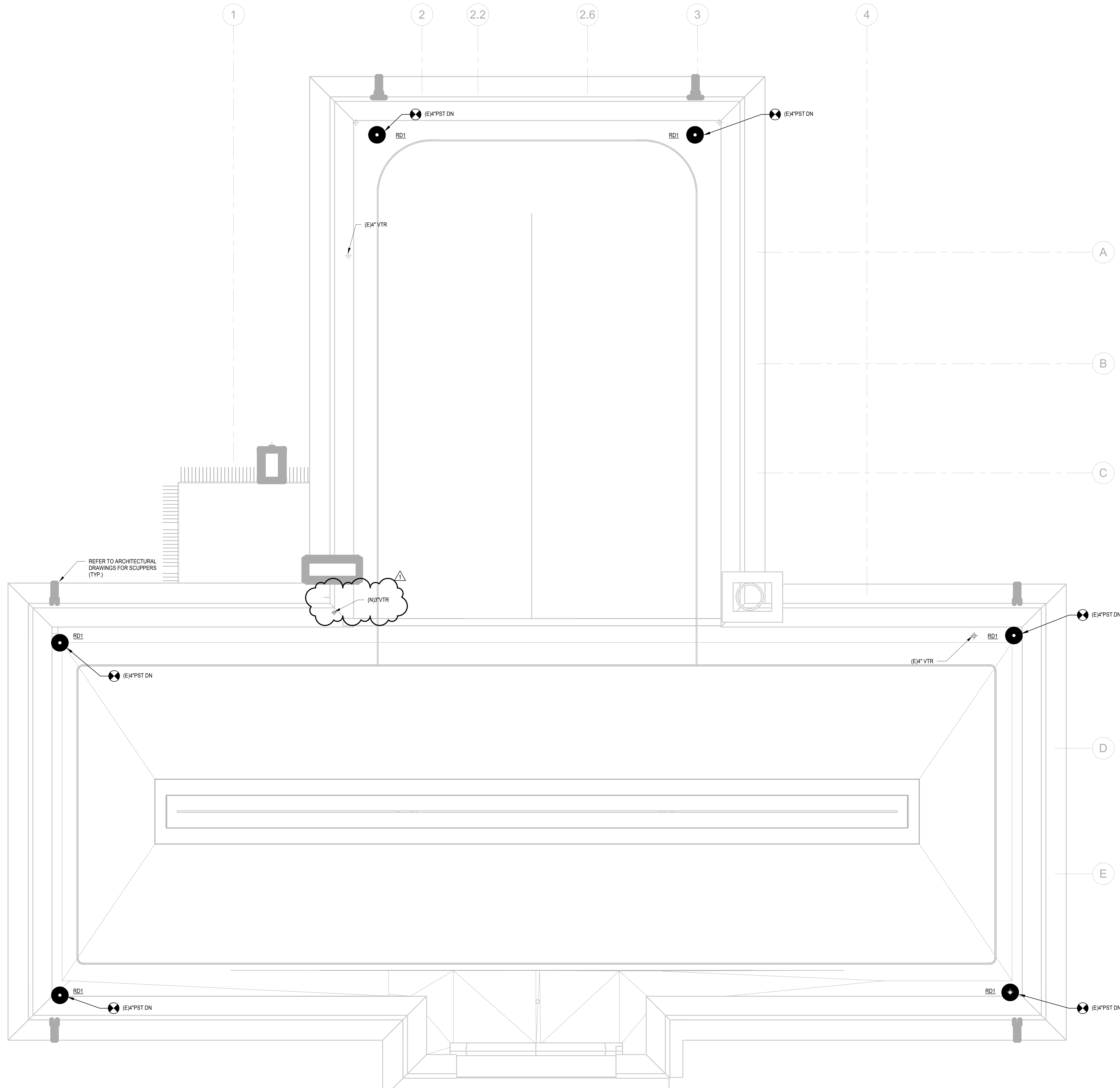
NEW WORK KEYNOTES:

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1 PLUMBING PROPOSED DRAINAGE - LIBRARY FIRST FLOOR
1/4" = 1'-0"

**ISSUE FOR BID
NOT FOR CONSTRUCTION
09/07/22**



PLUMBING NOTES:

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REFER TO ARCHITECTURAL DRAWINGS FOR SCUPPERS (TYP.)

① PLUMBING PROPOSED DRAINAGE - LIBRARY ROOF
2-2021 1/4" = 1'-0"

**ISSUE FOR BID
NOT FOR CONSTRUCTION
09/07/22**

REVISIONS

DATE	ISSUE	DESCRIPTION
09/29/22	1	ADDENDUM #1
09/07/22	0	ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR

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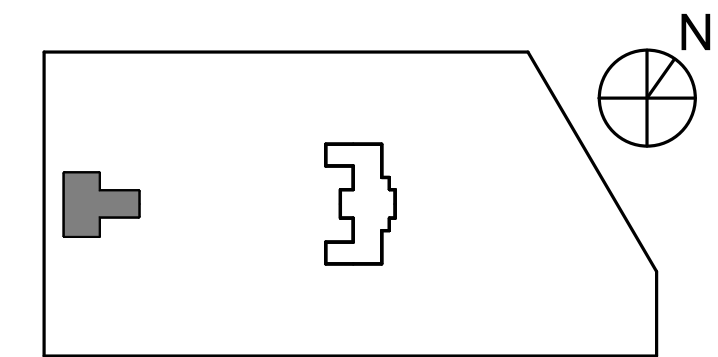
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PROJECT TITLE
**KINGSESSING BUILDING
AND SITE
IMPROVEMENTS**

KEY PLAN



DRAWING TITLE
**PLUMBING DRAINAGE
PROPOSED - ROOF**

PROJECT NO.	DRAWING NO.
KLMLX21003	P-202-L
DATE	09/07/2022
SCALE	AS NOTED
DRAWN BY:	LJP
CHECKED BY:	RHG

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

REVISIONS		
DATE	ISSUE	DESCRIPTION
08/29/22	1	ADDENDUM #1
09/07/22	0	ISSUE FOR BID



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PROJECT COORDINATOR:
SEALS:



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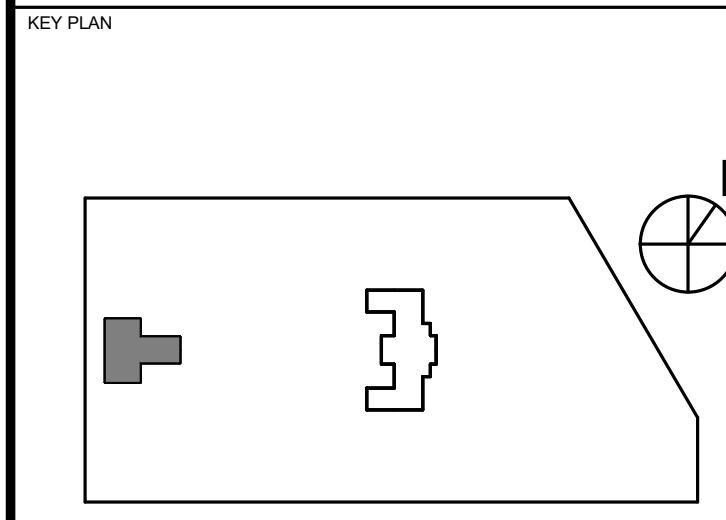
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PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS



DRAWING TITLE
PLUMBING SUPPLY PROPOSED - BASEMENT

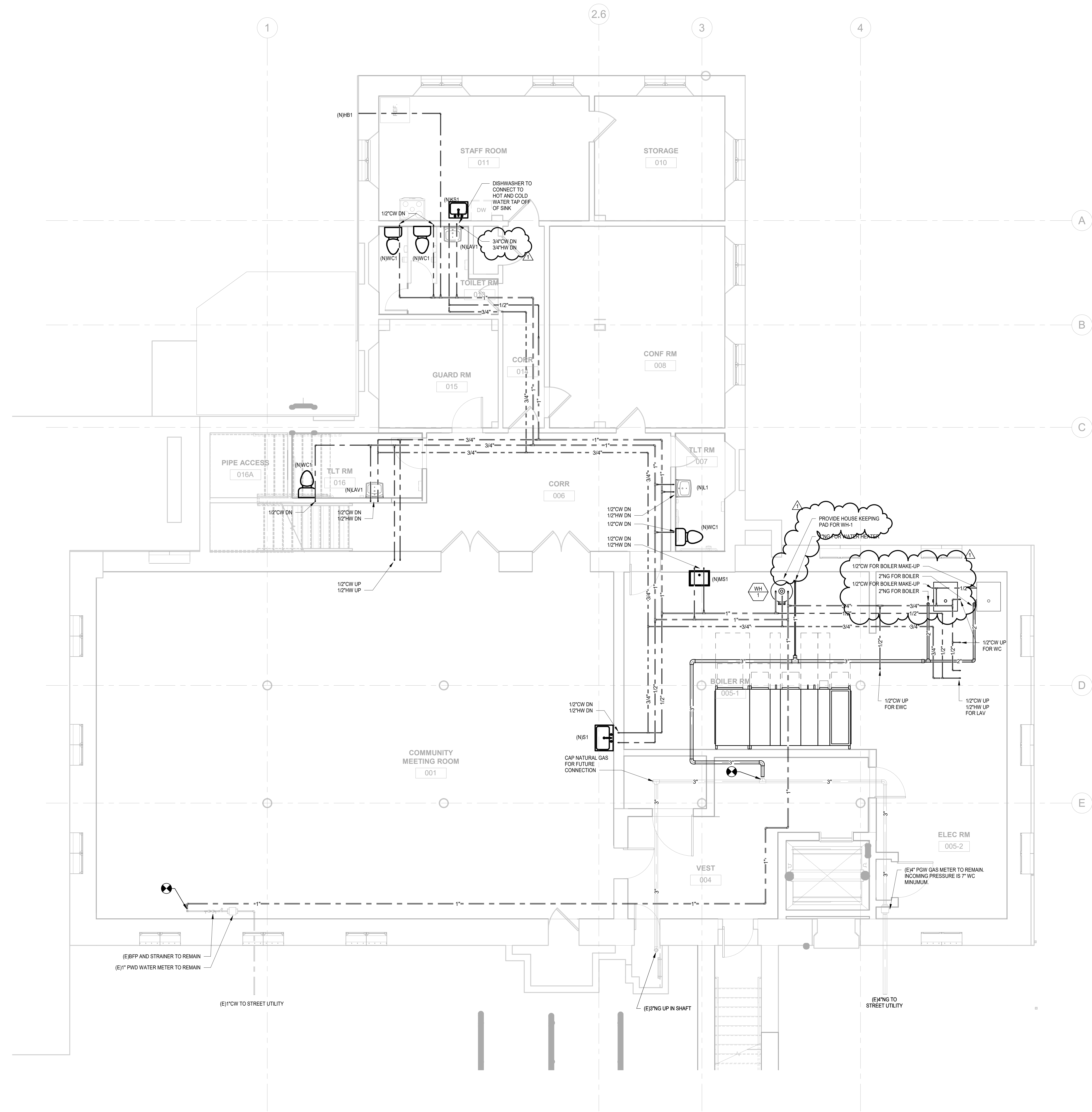
PROJECT NO. KMLX21003	DRAWING NO. P-300-L
DATE 09/07/2022	SCALE AS NOTED
DRAWN BY: LJP	CHECKED BY: RHC
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.	

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NEW WORK KEYNOTES:

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NOT FOR CONSTRUCTION
09/07/22**

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REVISIONS		
DATE	ISSUE	DESCRIPTION
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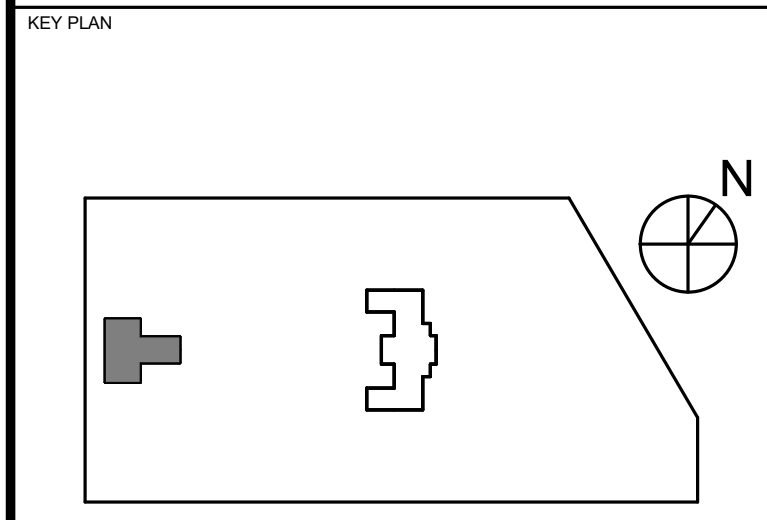
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PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS

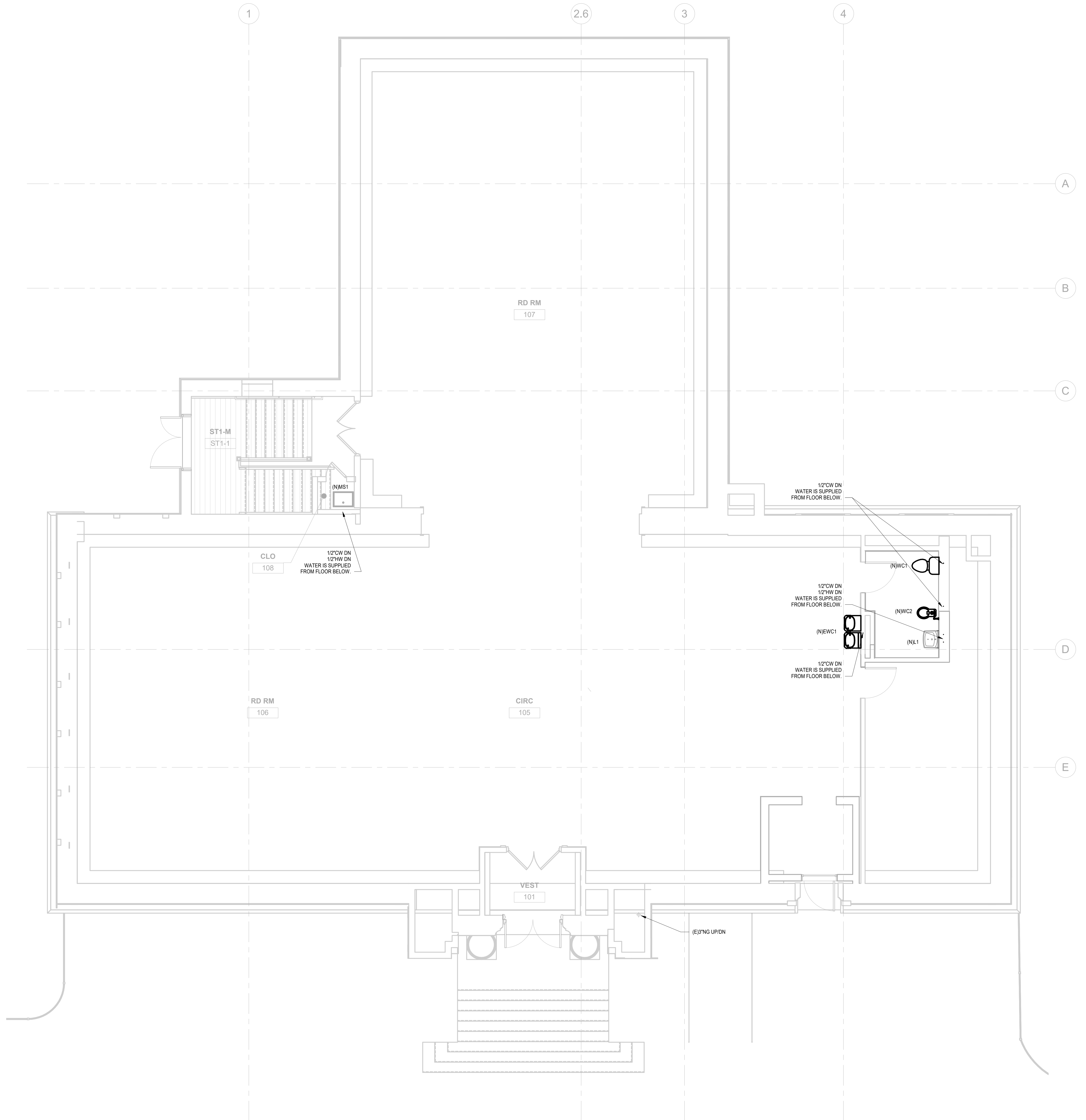


DRAWING TITLE
PLUMBING SUPPLY PROPOSED - FIRST FLOOR

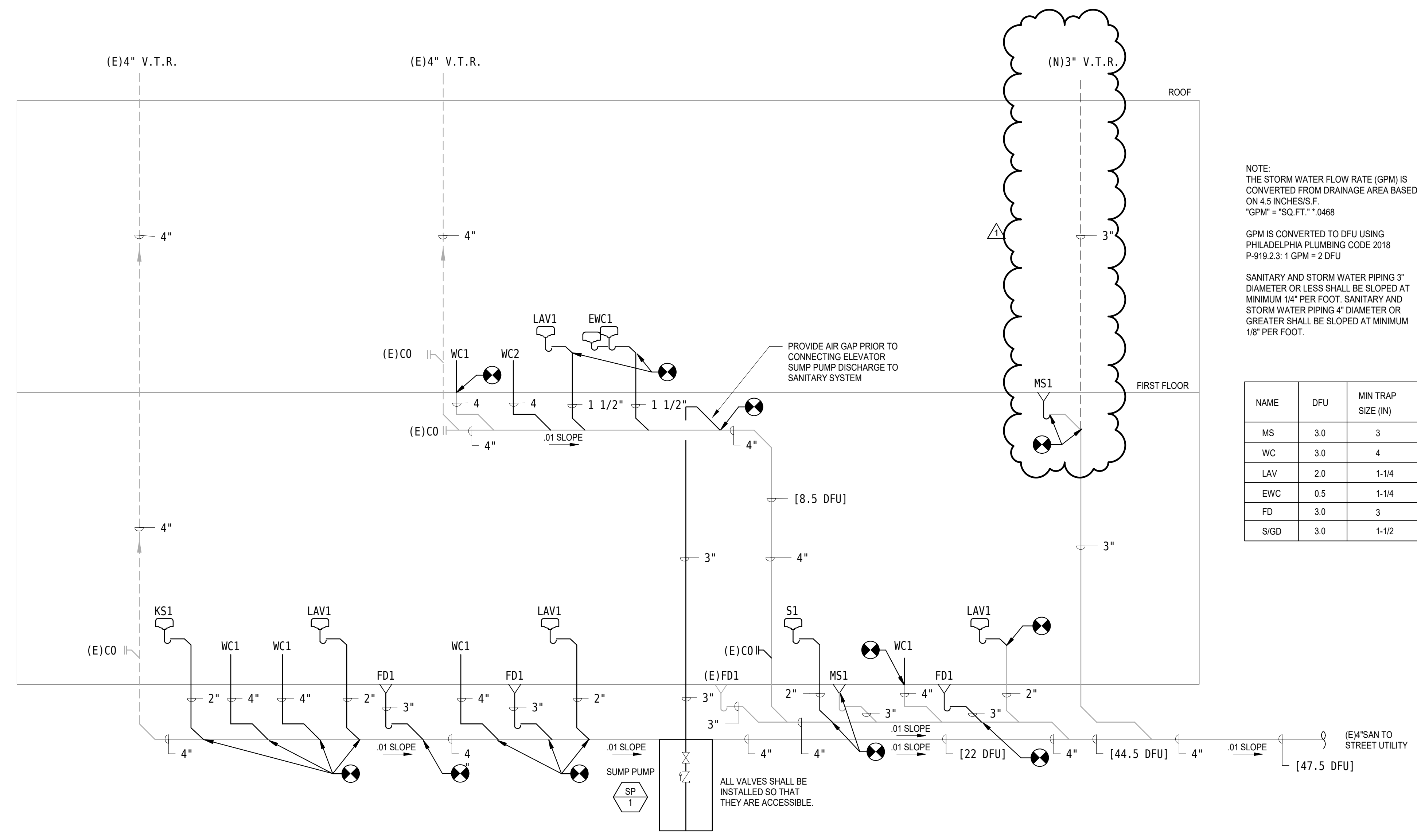
PROJECT NO. KMLX21003	DRAWING NO. P-301-L
DATE 09/07/2022	SCALE AS NOTED
DRAWN BY: LJP	CHECKED BY: RHG

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

**ISSUE FOR BID
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09/07/22**



1 PLUMBING PROPOSED SUPPLY - LIBRARY FIRST FLOOR
P-301-L 1/4" = 1'-0"



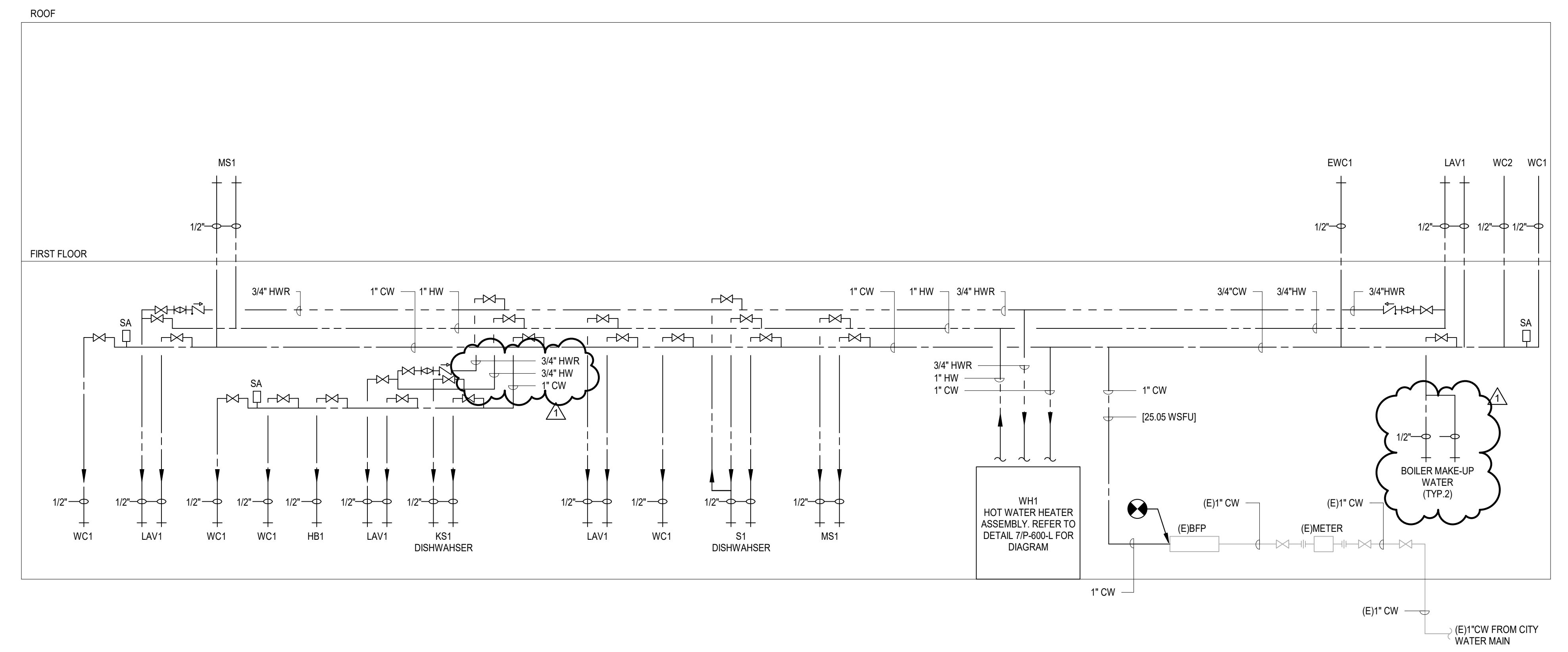
NOTE:
 THE STORM WATER FLOW RATE (GPM) IS CONVERTED FROM DRAINAGE AREA BASED ON 4.5 INCHES'S.F.
 *GPM = "SQ.F.T." * .0468

GPM IS CONVERTED TO DFU USING PHILADELPHIA PLUMBING CODE 2019 P-919.2.3: 1 GPM = 2 DFU

SANITARY AND STORM WATER PIPING 3" DIAMETER OR LESS SHALL BE SLOPED AT MINIMUM 1/4" PER FOOT. SANITARY AND STORM WATER PIPING 4" DIAMETER OR GREATER SHALL BE SLOPED AT MINIMUM 1/8" PER FOOT.

NAME	DFU	MIN TRAP SIZE (IN)
MS	3.0	3
WC	3.0	4
LAV	2.0	1-1/4
EWC	0.5	1-1/4
FD	3.0	3
SGD	3.0	1-1/2

2 SANITARY RISER DIAGRAM - B
 P-400-L
 12" = 1'-0"



GENERAL NOTES:
 1. CONTRACTOR SHALL TEST WATER PRESSURE FROM STREET TO BUILDING. CONTRACTOR SHALL PROVIDE BOOSTER PUMP SET FOR BUILDING COLD WATER PIPING AS REQUIRED.
 2. ALL DOMESTIC WATER SHALL BE INSTALLED WITHIN BUILDING THERMAL ENVELOPE.

NAME	WFU		
	COLD	HOT	TOTAL
S	1.0	1.0	1.4
DW	-	1.4	1.4
LAV	0.5	0.5	0.7
WC	2.2	-	2.2
MS	2.0	2.0	3.0
EWC	0.25	-	0.25
NFHB	2.5	-	2.5

1 DOMESTIC WATER RISER DIAGRAM
 P-400-L
 12" = 1'-0"

REVISIONS		
DATE	ISSUE	DESCRIPTION
08/28/22	1	ADDENDUM #1
08/07/22	0	ISSUE FOR BID



REVIEWED BY:
 PROJECT COORDINATOR:
 SEALS:



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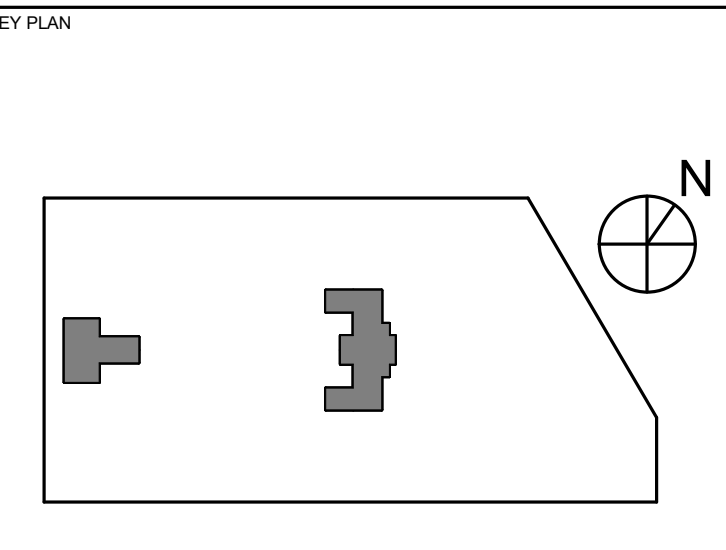
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PROJECT TITLE
KINGSESSING BUILDING AND SITE IMPROVEMENTS



DRAWING TITLE
PLUMBING RISER DIAGRAMS

PROJECT NO. KMLX21003	DRAWING NO. P-400-L
DATE 09/07/2022	SCALE AS NOTED
DRAWN BY: Author	CHECKED BY: Approver

**ISSUE FOR BID
 NOT FOR CONSTRUCTION
 09/07/22**

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

PLUMBING FIXTURE SCHEDULE

NO.	DESCRIPTION	FIXTURES		ROUGH IN'S					SUPPORTS, CARRIERS		ACCESSORIES AND OR NOTES
		MANUFACTURER	MODEL NO.	W	SAN	V	CW	HW	TYPE	MFR & MODEL NO.	SUPPLIES, DRAINS, TRAPS, TOILET SEATS ETC.
WC1	WATER CLOSET	AMERICAN STANDARD	EDGEMERE 204AA.104		4"	2"	1 1/2"	-	FLOOR MOUNTED		VITREOUS CHINA, ELONGATED FLOOR MOUNTED WATER CLOSET WITH 1.28 GPF. TANK TYPE. CONTRACTOR TO PROVIDE MANUAL ONLY FLUSH AND AMERICAN STANDARD ELONGATED SEAT 5901101.020.
WC2	WATER CLOSET	AMERICAN STANDARD	BABY DEVORO 3128.001		4"	2"	1 1/2"	-	FLOOR MOUNTED		VITREOUS CHINA, ELONGATED FLOOR MOUNTED WATER CLOSET WITH 1.28 GPF. TANK TYPE. CONTRACTOR TO PROVIDE MANUAL ONLY FLUSH AND AMERICAN STANDARD ELONGATED SEAT 5901101.020.
L1	LAVATORY	AMERICAN STANDARD	LUCERNE 0355.012.020		1 1/2"	1 1/2"	1 1/2"	1 1/2"	WALL MOUNTED	J.R. SMITH	VITREOUS CHINA, RECTANGLE WALL MOUNT LAVATORY WITH OVERFLOW. (20"x18") CONTRACTOR TO PROVIDE HANGERS. CONTRACTOR TO PROVIDE AMERICAN STANDARD RELIANT 3 7385.003 FAUCET WITH 0.5 GPM. CHROME. CENTER SET, SINGLE HANDLE, MANUAL FAUCET ONLY. ASSE 1070 VALVE TO BE INCLUDED.
MS1	MOP SINK	MUSTEE	63M		3"	1 1/2"	1 1/2"	-	FLOOR MOUNTED		FLOOR MOUNTED, 24" X 24" HIGH, LUBRICATOR, CLEANER, AND DISINFECTION PURPOSES. COMPLETE WITH SERVICE SINK FAUCET #63.800A, HOSE AND HOSE HOLDER #65.700 AND MOP HANGER #63.600 ATTACHED TO 3'X24" S.S. WALL PLATE, BUMPERS #61.401 AND FORWARD WALL GUARDS #67.524.
EW1	ELECTRIC WATER COOLER	OASIS	PG88BFSL		1 1/2"	1 1/2"	1 1/2"	-	WALL HUNG	MANUFACTURE RECOMMENDED	REFRIGERATED DRINKING FOUNTAIN WITH MECHANICAL ACTIVATION SPORTS BOTTLE FILLER, B.LEVEL, ADA, 8 GPH, NON-FILTERED. PROVIDE GREYSTONE FINISH.
HB1	HOSE BIBB	J.R. SMITH	5509QT		1/2"	-	-	-	WALL HUNG		BACKFLOW PREVENTER, STAINLESS STEEL CASE AND KEY OPERATED
S1	SINK	AMERICAN STANDARD	18SB.9301800T.075		1 1/2"	1 1/2"	1 1/2"	1 1/2"	COUNTERTOP MOUNTED		31x18 SINGLE BOWL STAINLESS STEEL SINK, 1 HOLE, AMERICAN STANDARD 4931.380.002 PULL DOWN KITCHEN FAUCET, 7. PROVIDE PROFLO P/F107 P-TRAP, PROFLO STRAINER PF 142SS, PROFLO P/F107B100 DRAIN EXTENSION AND PROFLO PFXCA232CL12 SUPPLY KIT. PROVIDE KITCHEN SINK WITH GARBAGE DISPOSAL, MANUAL FAUCET ONLY.
KS1	SINK	AMERICAN STANDARD	18SB.10321800.075		1 1/2"	1 1/2"	1 1/2"	1 1/2"	COUNTERTOP MOUNTED		23x18 SINGLE BOWL STAINLESS STEEL SINK, 1 HOLE, AMERICAN STANDARD 4931.380.002 PULL DOWN KITCHEN FAUCET, 7. PROVIDE PROFLO P/F107 P-TRAP, PROFLO STRAINER PF 142SS, PROFLO P/F107B100 DRAIN EXTENSION AND PROFLO PFXCA232CL12 SUPPLY KIT. PROVIDE KITCHEN SINK WITH GARBAGE DISPOSAL, REFER TO ARCHITECT DRAWINGS, MANUAL FAUCET ONLY.

PLUMBING SPECIALTY EQUIPMENT SCHEDULE

NO.	DESCRIPTION	FIXTURES		SERVICE CONNECTION					REMARKS OR NOTES
		MANUFACTURER	MODEL NO.	W	SAN	V	CW	HW	SUPPLIES, DRAINS, TRAPS, TOILET SEATS ETC.
RD1	ROOF DRAIN	J.R. SMITH	1005Y-C-CIDG		4"				GALVANIZED CAST IRON BODY WITH GALVANIZED CAST IRON DOME, NO HUB OUTLET, 15 1/4" DIA, LOW PROFILE DOME.
FD1	FLOOR DRAIN	J.R. SMITH	2005Y-A-P050		3"	1 1/2"			ROUND TOP, CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD.
FCO	FLOOR CLEANOUT	J.R. SMITH	4020 SERIES		AS NOTED				CAST IRON BODY WITH ROUND ADJUSTABLE SCORATED SECURED ROUND NICKEL BRONZE TOP.
WCO	WALL CLEANOUT	J.R. SMITH	4710 SERIES		AS NOTED				STAINLESS STEEL SHALLOW COVER WITH CENTER SCREW.
SA1	SHOCK ABSORBER	JOSAM	#75001-S		AS NOTED				SHOCK ABSORBER WITH WROUGHT COPPER SHELL, HYDRO-PNEUMATIC AIR CUSHION, TRIPLE O-RING SEALED PISTON, WROUGHT COPPER ADAPTER, AND MALE THREADED CONNECTION

PIPE MATERIAL SCHEDULE

SYMBOL	SYSTEM DESCRIPTION	PIPING SIZE	PIPING MATERIAL	FITTINGS	PIPING JOINTS	MFR & MODEL NO.	INSULATION	LISTINGS & REQUIREMENTS
SAN	SANITARY WASTE BELOW GRADE	2" & LARGER	CAST IRON SOIL PIPE - HUB & SPIGOT	HUB & SPIGOT	LEAD AND OAKUM	TYLER	NO	CISPI 310, ASTM A74 & C564
V	SANITARY VENT BELOW GRADE	2" & LARGER	CAST IRON SOIL PIPE - HUB & SPIGOT	HUB & SPIGOT	LEAD AND OAKUM	TYLER	NO	CISPI 310, ASTM A74 & C564
CW	DOMESTIC COLD WATER BELOW GRADE	3" & SMALLER	HARD DRAWN TYPE "L" CU TUBE	WROUGHT SOCKET	LEAD FREE SOLDER	MUELLER INDUSTRIES	NO	CISPI 310, ASTM A888
SAN	SANITARY WASTE ABOVE GRADE	1 1/2" & LARGER	CAST IRON SOIL PIPE - HUBLESS	DWV HUBLESS	STN STL CLAMP	TYLER	NO	CISPI 310, ASTM A888
V	SANITARY VENT ABOVE GRADE	1 1/2" & LARGER	CAST IRON SOIL PIPE - HUBLESS	DWV HUBLESS	STN STL CLAMP	TYLER	NO	CISPI 310, ASTM A888
CW	DOMESTIC COLD WATER ABOVE GRADE	3" & SMALLER	HARD DRAWN TYPE "L" CU TUBE	WROUGHT SOCKET	LEAD FREE SOLDER	MUELLER INDUSTRIES	YES	ASTM 888
CW	DOMESTIC COLD WATER UNDERGROUND	3" & SMALLER	SOFT DRAWN TYPE "K" CU TUBE	WROUGHT SOCKET	LEAD FREE SOLDER	MUELLER INDUSTRIES	YES	ASTM 888
HW	DOMESTIC HOT WATER ABOVE GRADE	3" & SMALLER	HARD DRAWN TYPE "L" CU TUBE	WROUGHT SOCKET	LEAD FREE SOLDER	MUELLER INDUSTRIES	YES	ASTM 888
NG	NATURAL GAS	3" & SMALLER	BLACK STEEL SCH. 40 - ASTM A-106, GRADE B	MALLEABLE IRON	THREADED	MUELLER INDUSTRIES	NO	ASTM A53
NG	NATURAL GAS	4" & LARGER	BLACK STEEL SCH. 40 - ASTM A-106, GRADE B	BLACK STEEL	WELDED	MUELLER INDUSTRIES	NO	ASTM A53
PST	STORM WATER ABOVE GRADE	1 1/2" & LARGER	CAST IRON SOIL PIPE - HUBLESS	DWV HUBLESS	STN STL CLAMP	TYLER	NO	CISPI 310, ASTM A888
PST	STORM WATER BELOW GRADE	2" & LARGER	CAST IRON SOIL PIPE - HUB & SPIGOT	HUB & SPIGOT	STN STL CLAMP	TYLER	NO	CISPI 310, ASTM A74 & C564

- NOTES:
- CONTRACTOR SHALL FOLLOW ALL REQUIRED LISTINGS & MANUFACTURES INSTALLATION REQUIREMENTS IN ORDER TO MAINTAIN ALL WARRANTIES.
 - JOIN HUBLESS CAST IRON SOIL PIPING AND FITTINGS ACCORDING TO CISPI 301 AND CISPI'S "CAST IRON SOIL PIPE AND FITTING HANDBOOK" FOR HUBLESS-COUPLING JOINTS.
 - HUBLESS COUPLINGS SHALL BE, HEAVY-DUTY, CLASS 1, ATSM C-1540, ALL STAINLESS STEEL, NEOPRENE GASKET, 3/8" HEX-HEAD SCREW & 80 lbs. INSTALLATION TORQUE.

WATER HEATER SCHEDULE

FIXTURE	MANUFACTURER AND MODEL NO.	STORAGE CAPACITY (GALLONS)	RECOVERY CAPACITY	REQUIREMENTS	APPROXIMATE DIMENSIONS	LOCATION
WH1	MFR: BRADFORD WHITE MODEL NO: EF-100T-199E-3N(A)	100	GPH: 261 CFH: 199 VOLT: 120 PHASE: 1Ø	HEIGHT: 60"	WIDTH: 28-1/4"	BASEMENT

* EQUIPPED WITH A FACTORY INSTALLED T&P RELIEF VALVE

SUMP PUMP SCHEDULE

FIXTURE	MANUFACTURER AND MODEL NO.	SYSTEM CAPACITY	PUMP		MOTOR				NOTES
			SUCTION PRESSURE	DISCHARGE PRESSURE	# OF MOTORS	MOTOR HP	MOTOR RPM	VPHHZ	
SP1	STANCOR SE-50	50 GPM	-	20 FT HD	1	1/2	3800	120/1/60	PUMP SHALL BE OIL MINDER OR INCLUDE FEATURE TO SHUTOFF IN DETECTION OF OIL, PROVIDE CHECK VALVE.

PIPE INSULATION SCHEDULE

MANUFACTURER	SYSTEM	INSULATION SYSTEM DESCRIPTION
JOHNS MANSVILLE OR APPROVED EQUAL	DOMESTIC WATER	INSULATE HOT, HOT WATER RETURN AND COLD WATER PIPING WITH JOHNS MANSVILLE'S "MICRO-LOK" HP ALL SERVICE (ASJ) VAPOR-RETARDER JACKET WITH A SELF-SEALING LOGITUDINAL CLOSURE LAP (SSL) AND BUTT JOINTS & FITTINGS WITH INSULATED FITTINGS BOPPERS AND LOW TEMPERATURE FIBER GLASS INSULATED INSERTS WITH PVDF TAPE PER MANUFACTURER'S RECOMMENDATIONS.

NOTE: IDENTIFY ALL PIPING WITH DIRECTION OF FLOW AND FLUID TYPE WITH PIPE MARKERS & FLOW ARROWS PER ANSI/ASHA COLOR CODE. MANUFACTURER SHALL BE: SETON IDENTIFICATION PRODUCTS OR APPROVED EQUAL.

HANGER SCHEDULE

STEEL PIPE SIZE	SPACING OF SUPPORTS
1/2"	6'-0"
1/2" to 1"	8'-0"
1 1/4" & LARGER	10'-0"

REVISIONS

DATE	ISSUE	DESCRIPTION
08/29/22	1	ADDENDUM #1
08/07/22	0	ISSUE FOR BID



REVIEWED BY:

PROJECT COORDINATOR:

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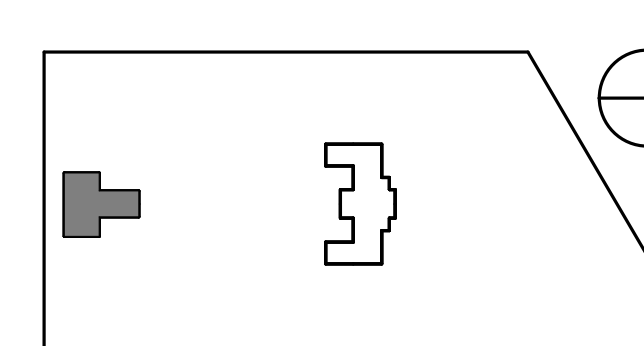
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PROJECT TITLE

KINGSESSING BUILDING AND SITE IMPROVEMENTS

KEY PLAN



DRAWING TITLE

PLUMBING SCHEDULES

PROJECT NO.

KLMLX21003

DATE

09/07/2022

SCALE

AS NOTED

DRAWN BY:

LJP

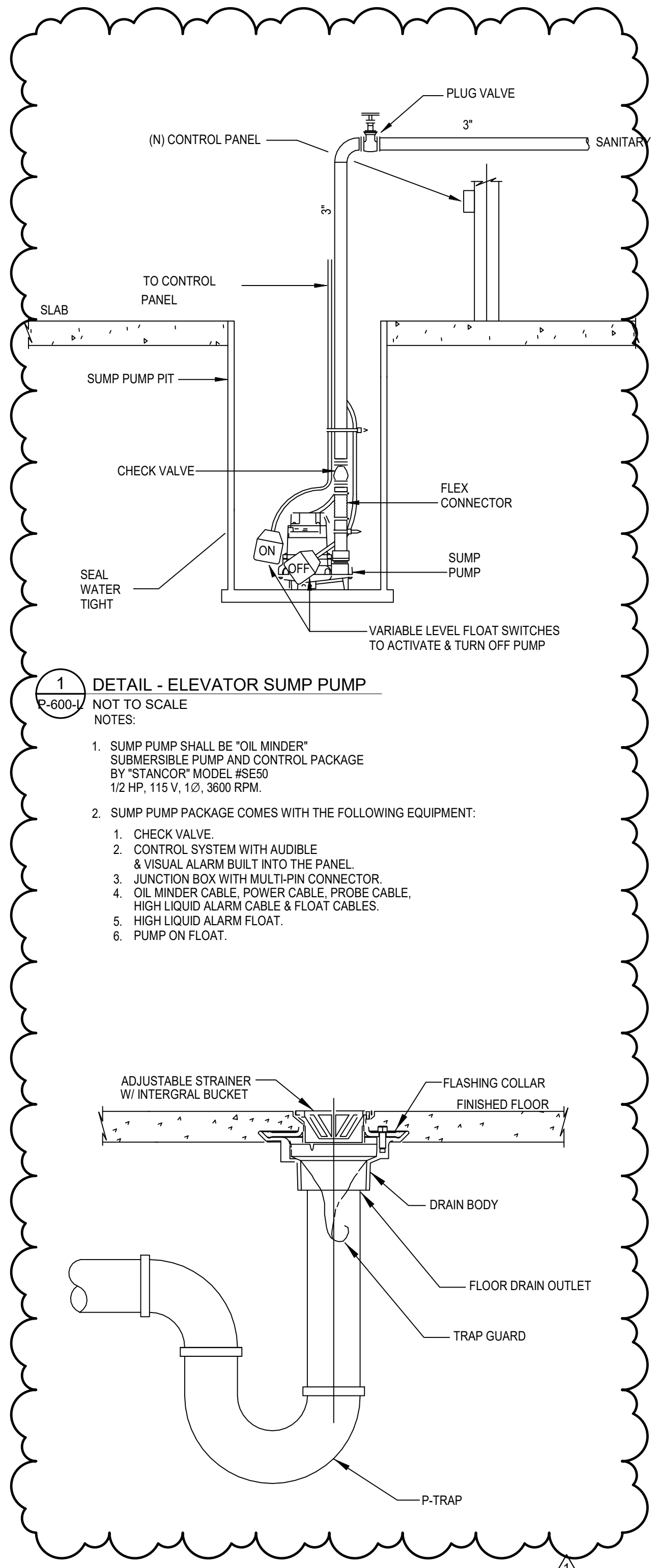
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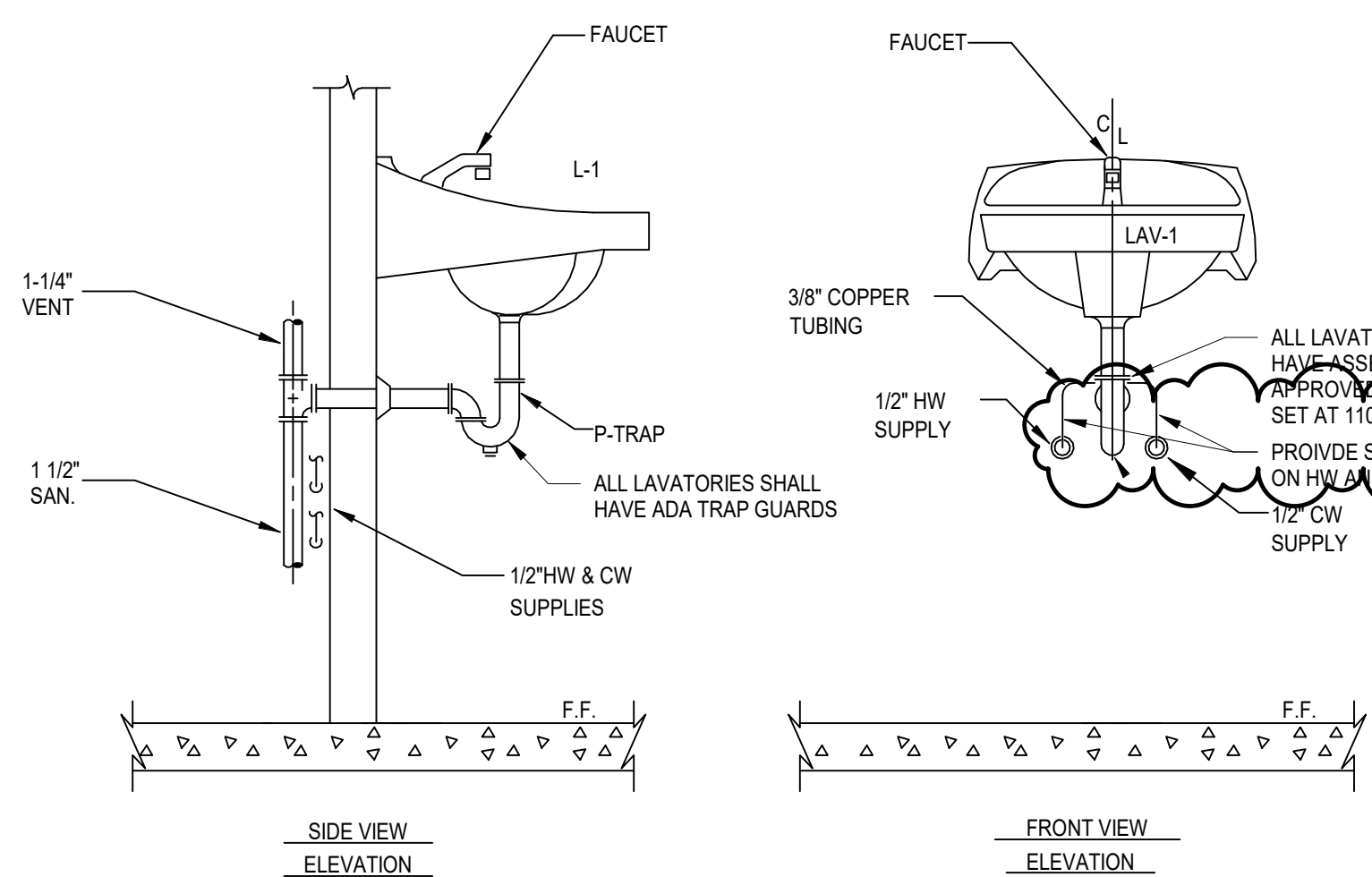
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NOT FOR CONSTRUCTION
09/07/22**

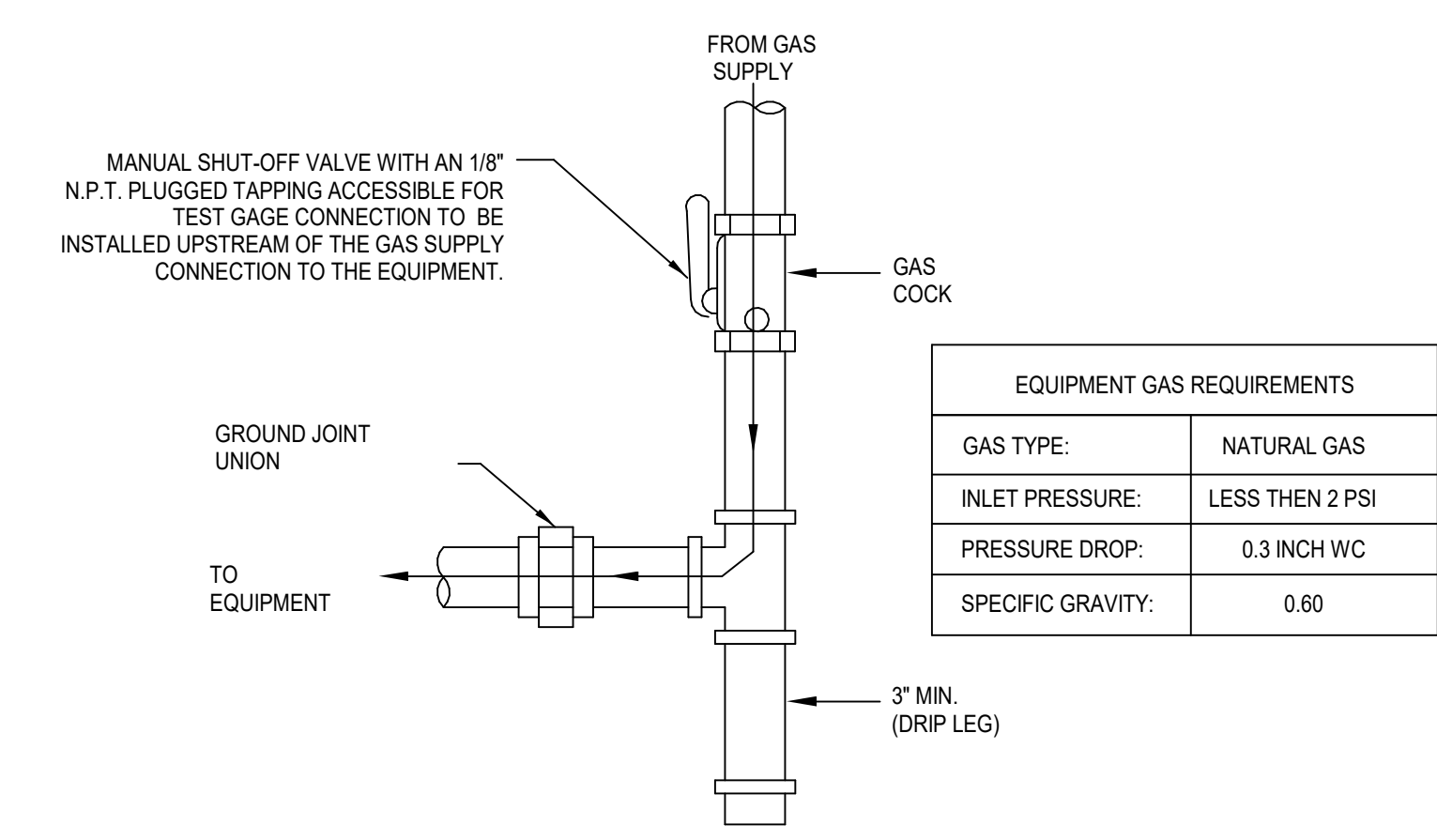
P-500-L



1 **DETAIL - ELEVATOR SUMP PUMP**
 NOT TO SCALE
 NOTES:
 1. SUMP PUMP SHALL BE "OIL MINDER" SUBMERSIBLE PUMP AND CONTROL PACKAGE BY "STANGOR" MODEL #SE50 1/2 HP, 115 V, 10, 3000 RPM.
 2. SUMP PUMP PACKAGE COMES WITH THE FOLLOWING EQUIPMENT:
 1. CHECK VALVE.
 2. CONTROL SYSTEM WITH AUDIBLE & VISUAL ALARM BUILT INTO THE PANEL.
 3. JUNCTION BOX WITH MULTISPIN CONNECTOR.
 4. OIL MINDER CABLE, POWER CABLE, PROBE CABLE, HIGH LIQUID ALARM CABLE & FLOAT CABLES.
 5. HIGH LIQUID ALARM FLOAT.
 6. PUMP ON FLOAT.

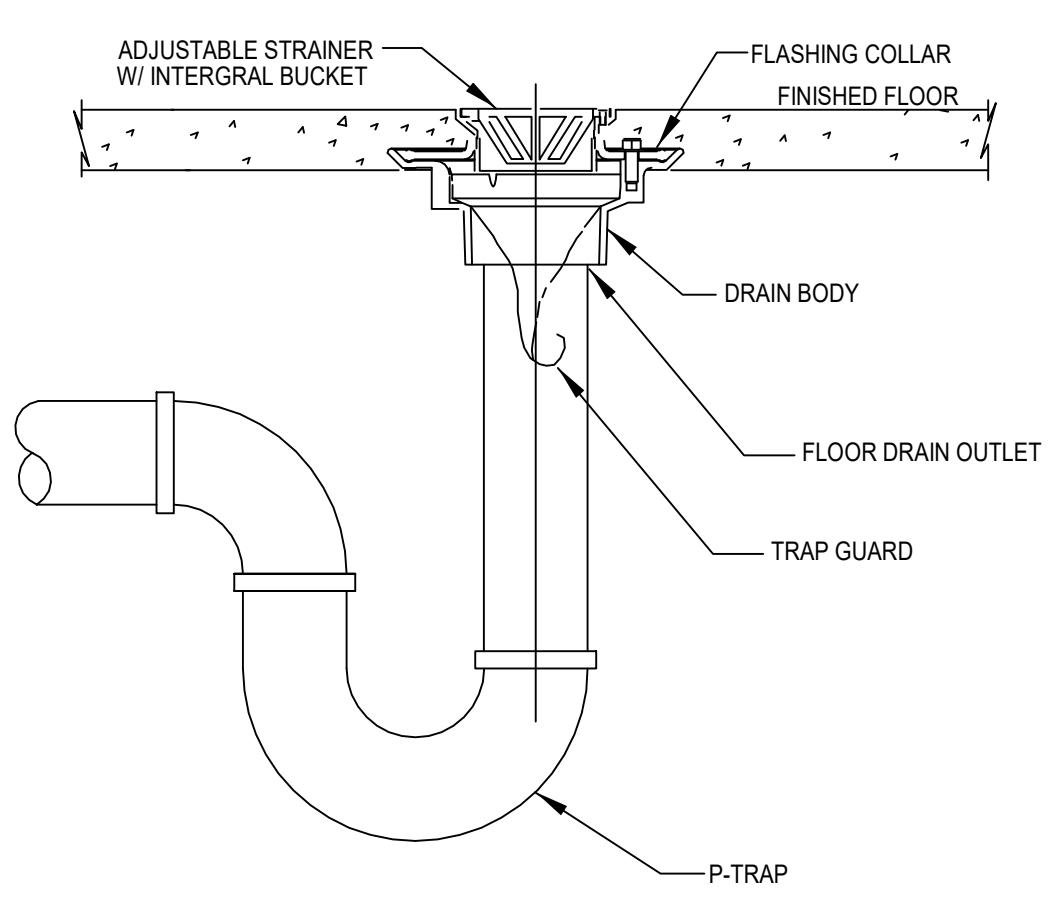


2 **DETAIL - LAVATORY**
 NOT TO SCALE
 NOTE:
 1. PLUMBING CONTRACTOR TO PROVIDE & INSTALL ALL NEEDED PIPING, FITTINGS, TAIL PIECE, WATER SUPPLIES AND SHUT OFF VALVES FOR A COMPLETE AND FUNCTIONAL SYSTEM.

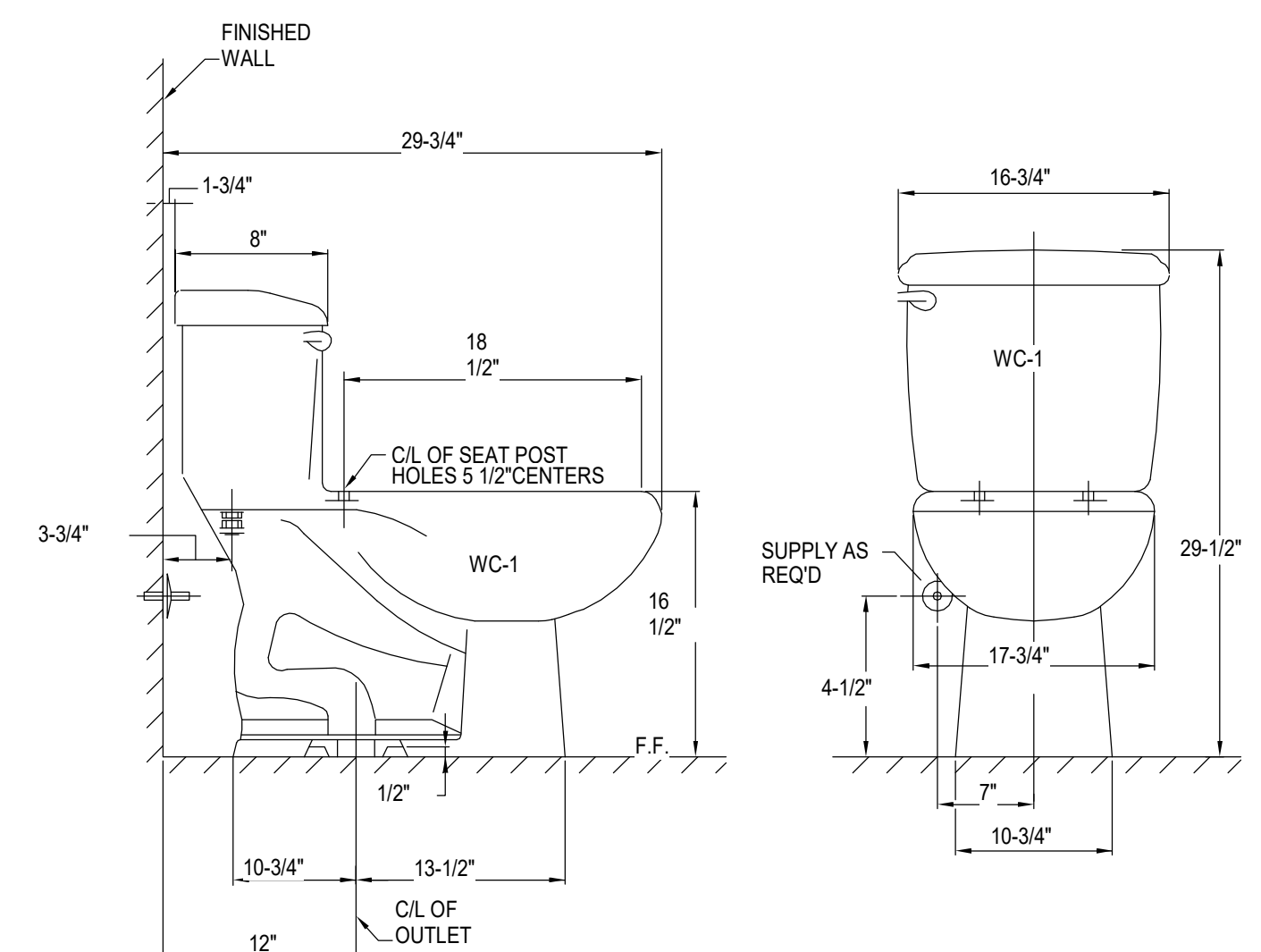


3 **DETAIL - NATURAL GAS SEDIMENT TRAP**
 NOT TO SCALE
 NOTE:
 1. PLUMBING CONTRACTOR TO VERIFY THE GAS PRESSURE BEING SUPPLIED BY NATURAL GAS AUTHORITY AND IF REQUIRED, CONTRACTOR WILL FURNISH IN-LINE TYPE PRESSURE REGULATORS AT EQUIPMENT.

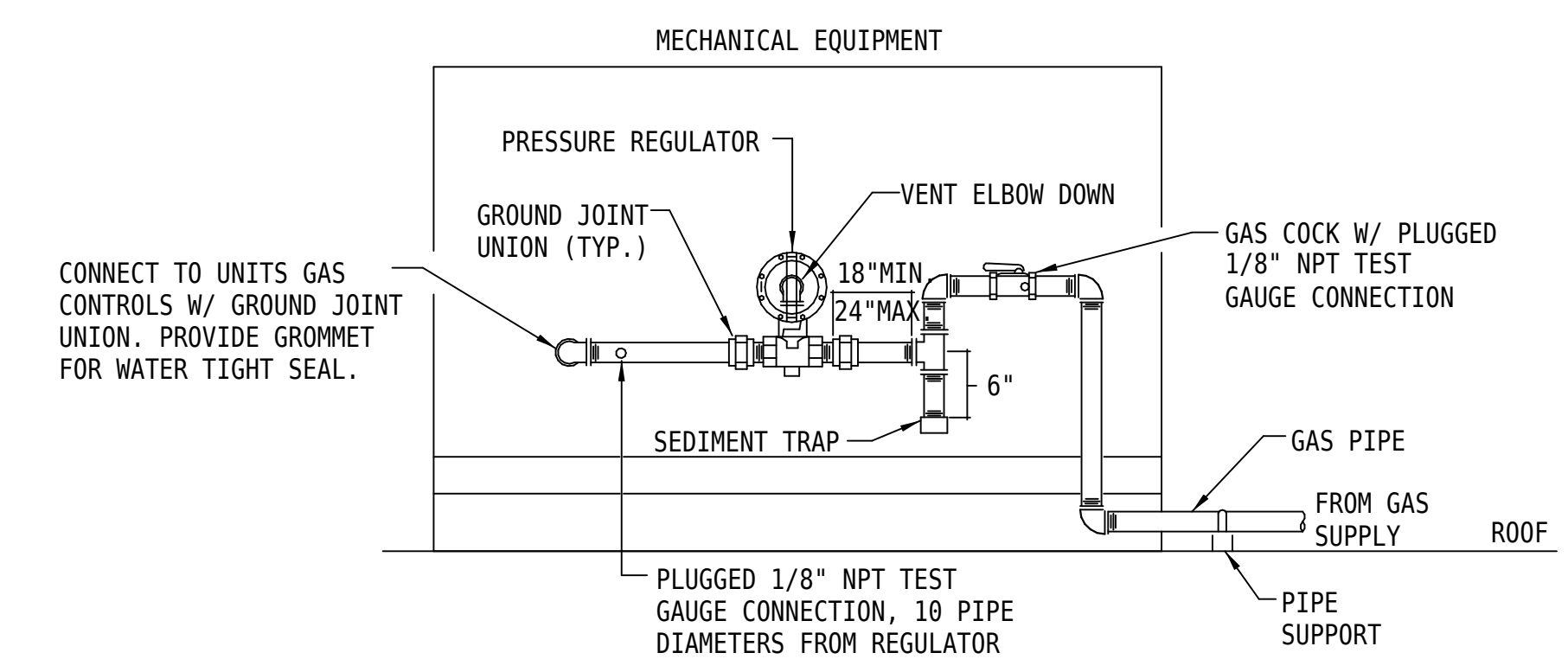
EQUIPMENT GAS REQUIREMENTS	
GAS TYPE:	NATURAL GAS
INLET PRESSURE:	LESS THEN 2 PSI
PRESSURE DROP:	0.3 INCH WC
SPECIFIC GRAVITY:	0.60



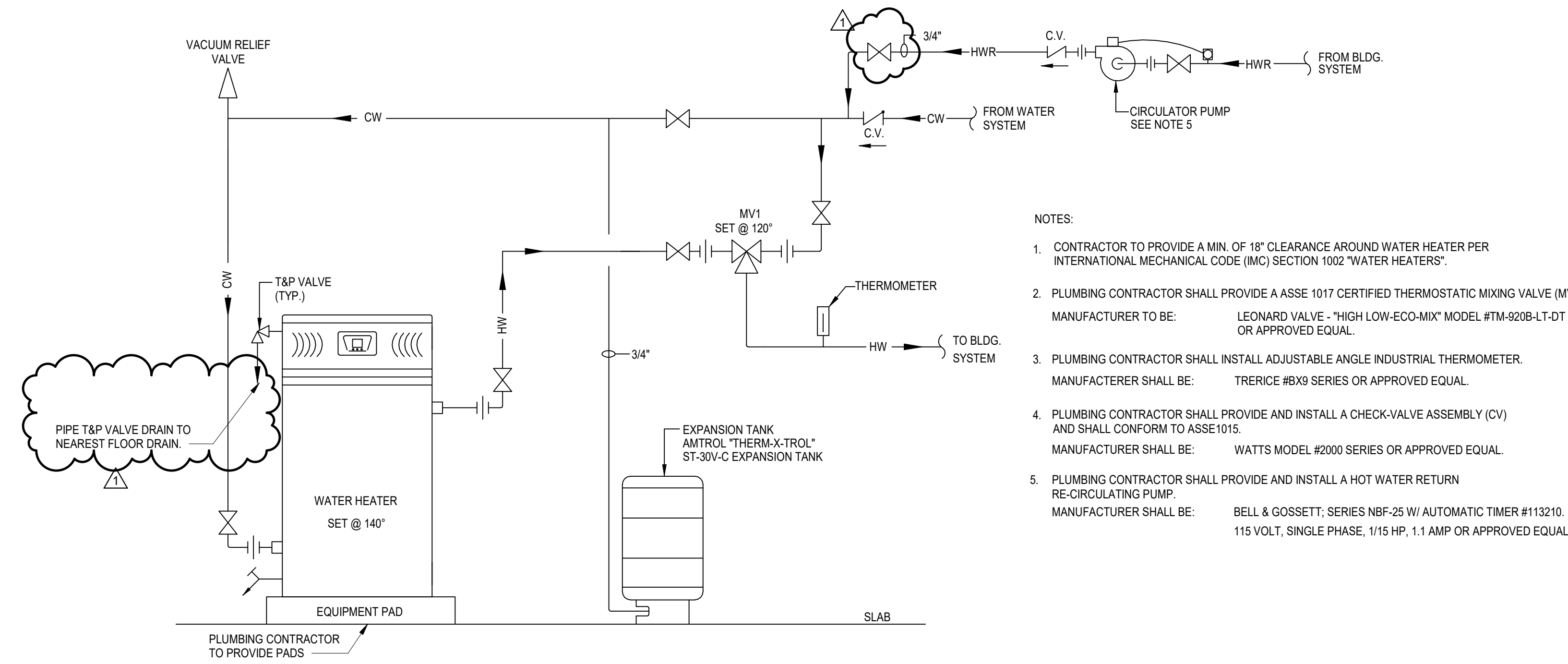
4 **DETAIL - FLOOR DRAIN TRAP PRIMER**
 NOT TO SCALE



5 **DETAIL - WATER CLOSET**
 NOT TO SCALE

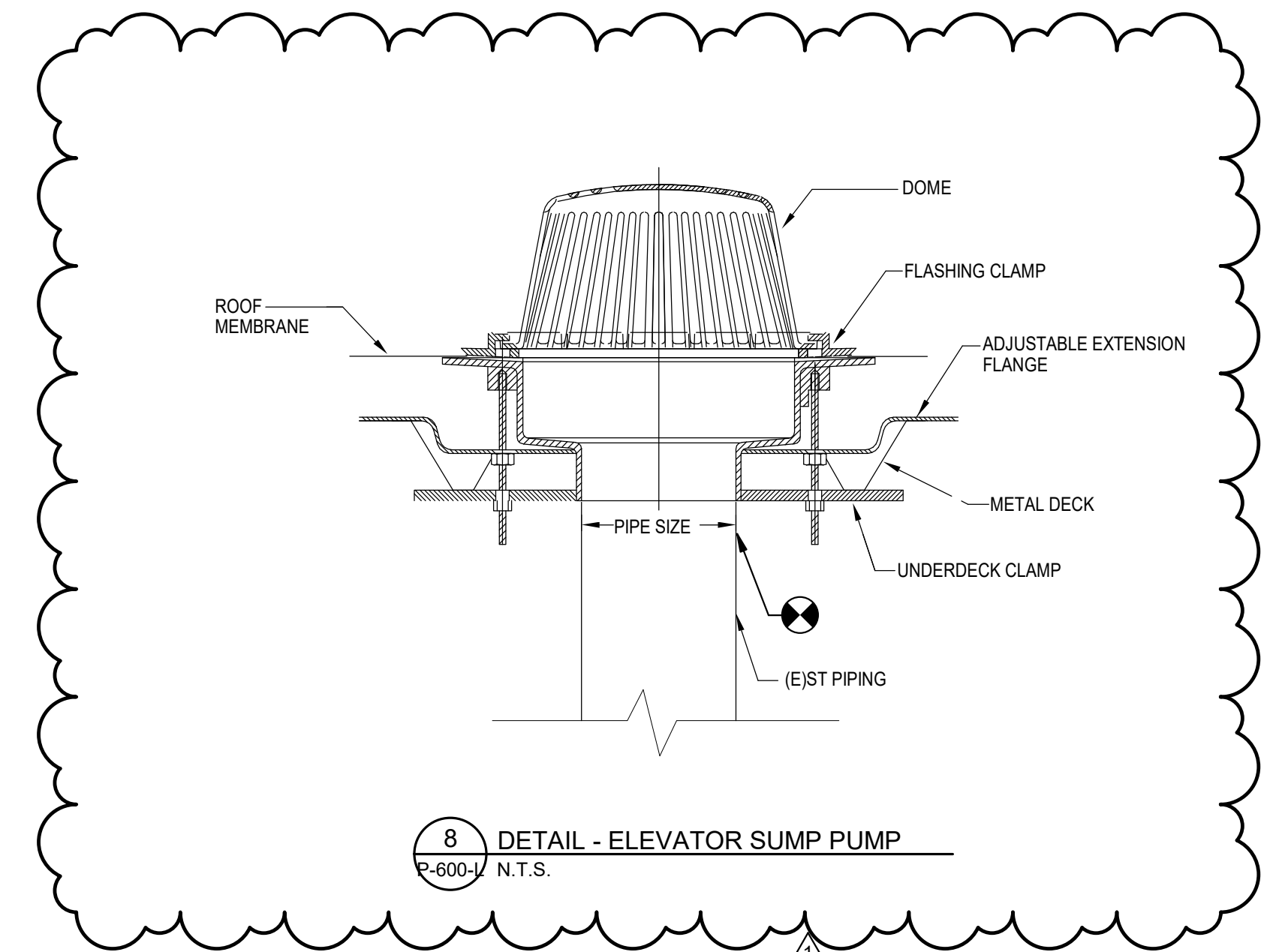


6 **DETAIL - NATURAL GAS CONNECTION TO EQUIPMENT**
 NOT TO SCALE
 NOTES:
 1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PERTAINING TO THE NEW WORK PORTION OF THIS PROJECT. CONTRACTOR SHALL NOTIFY OWNERS REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES BETWEEN CONTRACT DRAWINGS AND EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
 2. CONTRACTOR TO BE RESPONSIBLE FOR ALL SLAB AND WALL OPENINGS. CONTRACTOR TO COORDINATE WITH ALL TRADE PROFESSIONAL IN FIELD.
 3. IDENTIFY ALL NEW PIPING WITH DIRECTION OF FLOW AND FLUID TYPE WITH PIPE MARKERS & FLOW ARROWS PER ANSI/OSHA COLOR CODE. MANUFACTURER SHALL BE: SETON IDENTIFICATION PRODUCTS OR APPROVED EQUAL.
 4. FOR PIPE SIZES NOT SHOWN, REFER TO SINGLE RISER DIAGRAMS ON DRAWING P500.
 5. GALVANIZED METAL SHIELDS SHALL BE APPLIED BETWEEN HANGER OR SUPPORT AND THE PIPE INSULATION. SHIELDS SHALL BE FORMED TO FIT THE INSULATION AND SHALL EXTEND UP TO THE CENTERLINE OF THE PIPE AND THE LENGTH SPECIFIED FOR THE INSULATION HANGER INSERT LESS 4" TO ALLOW FOR VAPOR RETARDING BUTT JOINTS ON EACH SIDE OF THE SHIELDS.



7 **DETAIL - TYPICAL WATER HEAT WITH HOT WATER RECIRCULATION**
 NOT TO SCALE

NOTES:
 1. CONTRACTOR TO PROVIDE A MIN. OF 18" CLEARANCE AROUND WATER HEATER PER INTERNATIONAL MECHANICAL CODE (MCC) SECTION 1002 "WATER HEATERS".
 2. PLUMBING CONTRACTOR SHALL PROVIDE A ASSE 1017 CERTIFIED THERMOSTATIC MIXING VALVE (MV). MANUFACTURER TO BE: LEONARD VALVE - "HIGH LOW-ECO-MIX" MODEL #TM-820B-LT-DT OR APPROVED EQUAL.
 3. PLUMBING CONTRACTOR SHALL INSTALL ADJUSTABLE ANGLE INDUSTRIAL THERMOMETER. MANUFACTURER SHALL BE: TRERICE #BX9 SERIES OR APPROVED EQUAL.
 4. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL A CHECK-VALVE ASSEMBLY (CV) AND SHALL CONFORM TO ASSE1015. MANUFACTURER SHALL BE: WATTS MODEL #2000 SERIES OR APPROVED EQUAL.
 5. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL A HOT WATER RETURN RE-CIRCULATING PUMP. MANUFACTURER SHALL BE: BELL & GOSSETT, SERIES NBF-25 W/ AUTOMATIC TIMER #113210. 115 VOLT, SINGLE PHASE, 1/15 HP, 1.1 AMP OR APPROVED EQUAL.



8 **DETAIL - ELEVATOR SUMP PUMP**
 N.T.S.

REVISIONS		
DATE	ISSUE	DESCRIPTION
08/29/22	1	ADDENDUM #1
09/07/22	0	ISSUE FOR BID



REVIEWED BY:
 PROJECT COORDINATOR:
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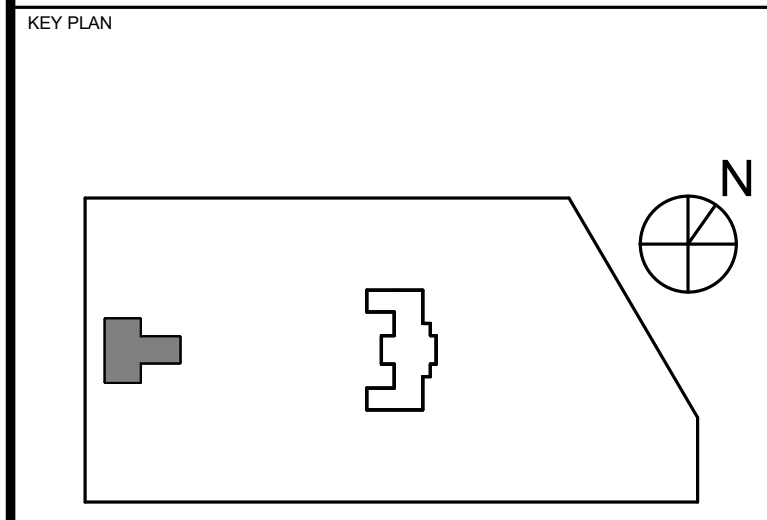


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 PHILADELPHIA PENNSYLVANIA

PROJECT TITLE
KINGESSING BUILDING AND SITE IMPROVEMENTS



DRAWING TITLE
PLUMBING DETAILS

PROJECT NO. KMLX21003	DRAWING NO. P-600-L
DATE 09/07/2022	SCALE AS NOTED
DRAWN BY LJP	CHECKED BY RHC
NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.	

ISSUE FOR BID
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09/07/22

GENERAL NOTES

- THESE DRAWINGS DESCRIBE THE GENERAL REQUIREMENTS FOR THE INSTALLATION OF TELECOMMUNICATIONS STRUCTURED CABLING SYSTEM, PUBLIC ADDRESS SYSTEM, AND SECURITY SYSTEM WITHIN THE FACILITIES OF KINGSESSING LIBRARY & REC CENTER (KWC). THE PROJECT INCLUDES FURNISHING, INSTALLATION AND TESTING OF THE COMPONENTS FOR THE OUTSIDE PLANT STRUCTURED CABLING AS DESCRIBED HEREIN AND IN THE SPECIFICATIONS.
- PRIOR TO ACCEPTANCE OF THE INSTALLATION, ALL SYSTEMS SHALL BE TESTED, AND OPERATED TO DEMONSTRATE TO THE OWNER, OR DESIGNATED REPRESENTATIVE, THAT THE INSTALLATION AND PERFORMANCE OF THESE SYSTEMS AND/OR PARTS THEREOF CONFORM TO THE DESIGN INTENT.
- CONTRACT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE, DESIGN INTENT, AND GENERAL ARRANGEMENT ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES INCLUDING RESOLUTION OF FIELD CONFLICTS THAT MAY ARISE.
- CONTRACTOR SHALL BE RESPONSIBLE TO FIELD LOCATE AND IDENTIFY ALL EXISTING UTILITIES AND CONDITIONS IN THE CONSTRUCTION AREA, WHETHER INDICATED ON DRAWINGS OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO EXISTING UTILITIES, CABLES AND/OR FACILITIES DAMAGED DURING CONSTRUCTION. NO REIMBURSEMENT WILL BE ALLOWED FOR REPAIR AND/OR REPLACEMENT OF DAMAGED FACILITIES/UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF UNDERGROUND UTILITIES WHICH PASS THROUGH THE CONSTRUCTION AREA BUT ARE NOT PART OF THE CONSTRUCTION SCOPE OF WORK. THE CONTRACTOR SHALL ENSURE THESE CABLES ARE PROTECTED AND THE SYSTEMS STAY FUNCTIONAL TO WHICH THEY ARE CONNECTED.
- THE INTEGRATION OF EXISTING SYSTEMS IS WORK OF A COMPLEX NATURE WHICH WILL REQUIRE ACCURATE PLANNING, CAREFUL PREPARATION AND EXECUTION. ATTENTION TO DETAIL AND CLOSE SUPERVISION BY THE CONTRACTOR, THE CONTRACTOR SHALL BE REQUIRED TO DO THIS WORK IN FULL COOPERATION WITH ALL SYSTEM INTEGRATORS AND SUBJECT TO SCHEDULING ARRANGED TO MINIMIZE DISRUPTION OF NORMAL ACTIVITIES OF THE REST OF THE AIRPORT. PHASING OF ALL WORK SHALL BE DONE IN COORDINATION WITH THE CONSTRUCTION PHASING PLAN OR AS INSTRUCTED BY THE CM.
- ALL CABLING, VAULTS, DEVICES AND BOXES INSTALLED SHALL BE TAGGED AND/OR MARKED AS IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- WHERE UTILITIES, SYSTEMS, SWITCHES, PANELS, POWER SUPPLIES, ROUTERS AND/OR SERVICES REQUIRE SHUTDOWN, IN THE MAIN TERMINAL, FOR THE WORK TO BE PERFORMED, NOTIFY THE CM AND OWNER, REQUESTS FOR SYSTEMS SHUTDOWNS SHALL BE SUBMITTED TO THE OWNER, IN WRITING, A MIN. OF 1 WEEK PRIOR TO THE SCHEDULED SHUTDOWN. THE REQUEST MUST INCLUDE ALL SYSTEMS TO BE AFFECTED AND THE EXPECTED DISRUPTION DURATIONS.
- ALL MATERIALS SHALL COMPLY WITH APPLICABLE CODES, ORDINANCES AND REGULATIONS AND APPLICABLE CONTRACT SPECIFICATIONS.
- PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, INCIDENTALS, METHODS AND SERVICES REQUIRED TO INSTALL ALL WORK INDICATED COMPLETELY AND IN FULL OPERATION.
- ALL WORK SHALL BE IN CONFORMANCE WITH THE LATEST AND ALL APPLICABLE LAWS, CODES, AND REGULATIONS ADOPTED BY MUNICIPAL, COUNTY, STATE, FEDERAL, AUTHORITIES, UTILITY COMPANIES, INSURANCE AGENCIES AND OTHER AUTHORITIES HAVING JURISDICTION OVER THE WORK, INCLUDING CURRENT ENVIRONMENTAL REGULATIONS, AND SHALL COMPLY WITH THE APPLICABLE LOCAL ELECTRICAL CODES, LATEST ADOPTED EDITION OF THE NEC AND ANY APPLICABLE INDUSTRIAL CODES: NECA, NEC, NESC, NFPA, IEEE, ANSITIA, NORTH CAROLINA AND LOCAL CODES.
- THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION FOR A PERIOD OF ONE YEAR (OR AS CONTRACTUALLY OBLIGATED) FROM THE DATE OF ACCEPTANCE OF THE SYSTEMS AS A WHOLE. ANY DEFECTS IN WORKMANSHIP, MATERIALS, MALFUNCTION OF EQUIPMENT OR UNSATISFACTORY PERFORMANCE, AND ALL OTHER WORK OR PARTS OF THE BUILDING DAMAGED THEREBY, AS A RESULT OF WORK OF THE PROJECT BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PAY ALL REPAIR COSTS ACCORDINGLY WITHOUT ADDITIONAL COSTS TO THE OWNER.
- UNLESS OTHERWISE NOTED, ALL PARTS, EQUIPMENT, AND MATERIALS SHALL BE NEW AND SHALL BE SAME AND/OR UL APPROVED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING CABLING. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR FURNISHING AND INSTALLING CONDUIT FROM ALL EQUIPMENT DEVICE LOCATIONS TO DESIGNATED TERMINATION ROOMS. ALL NEW CABLING SHALL BE INSTALLED IN CONDUIT UNLESS OTHERWISE NOTED.
- ALL OSP CABLING SHALL BE INSTALLED IN CONCRETE ENCASED SCHEDULE 40 PVC OR RGS CONDUIT AS INDICATED IN DRAWINGS AND SPECS AND IN FABRIC INNERDUCT. ALL VERTICAL ELBOWS AND TRANSITIONS FROM UNDERGROUND TO ABOVE GROUND SHALL BE RGS. ALL SPARE CONDUITS SHALL CONTAIN FABRIC INTERDUCT AND/OR A PULL STRING AS INDICATED. PRIMARY AND SECONDARY BACKBONE CABLING SHALL NOT SHARE A PHYSICAL PATHWAY.
- CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT AS INDICATED ON THE PLANS.
- INSTALLATION OF CATEGORY 6A CABLE SHALL BE IN ACCORDANCE WITH TIA GUIDELINES. CABLE INSTALLATION AND TERMINATIONS THAT DO NOT COMPLY SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - THE MAXIMUM PULLING TENSION FOR A SINGLE CABLE SHALL NOT EXCEED 25 POUNDS.
 - THE MINIMUM BENDING RADIUS OF THE CABLE SHALL NOT BE LESS THAN 4X THE OUTSIDE DIAMETER OF THE CABLE.
 - THE CABLE SHALL BE INSTALLED WITHOUT KINKS OR TWISTS AND THE APPLICATION OF CABLE TIES SHALL NOT DEFORM THE CABLE BUNDLE. CONDUITS SHALL TRANSITION INTO CABLE TRAYS USING CONDUIT END BELLS. NO CABLE SHALL BE INSTALLED OVER ROUGH CONDUIT EDGES IN ANY TRANSITION.
 - STRIP BACK ONLY AS MUCH CABLE JACKET AS IS REQUIRED TO TERMINATE THE CABLE. CABLE PAIRS SHALL NOT BE UNTWISTED MORE THAN 1/2 INCH.
 - CABLES SHALL BE TESTED PER THE SPECIFICATIONS, CABLES WHICH DO NOT PASS TESTS SHALL BE REPLACED, OR RECTIFIED BY THE CONTRACTOR AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL NOT INSTALL ANY NEW CATEGORY 6A OR HIGHER DATA CABLE AT LENGTHS GREATER THAN 90 METERS FROM PATCH PANEL TO OUTLET BOX. THE CONTRACTOR SHALL BRING ANY CONDITIONS EXCEEDING THE CABLE LIMIT DISTANCE TO THE ENGINEERS ATTENTION.
- INSTALLATION OF FIBER OPTIC CABLES SHALL BE IN ACCORDANCE WITH TIA GUIDELINES. CABLE INSTALLATION AND TERMINATIONS THAT DO NOT COMPLY SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - THE BEND RADIUS FOR HORIZONTAL OPTICAL FIBER CABLE SHALL NOT BE LESS THAN 1 INCH UNDER NO-LOAD CONDITIONS. WHEN UNDER A MAXIMUM TENSILE LOAD OF 50 LB, THE BEND RADIUS SHALL NOT BE LESS THAN 2 INCHES.
 - THE BEND RADIUS FOR FIBER BACKBONE SHALL NOT BE LESS THAN THAT RECOMMENDED BY THE MANUFACTURER IF NO RECOMMENDATION IS KNOWN, THEN THE APPLIED BEND RADIUS SHALL NOT BE LESS THAN 12 TIMES THE CABLE OUTSIDE DIAMETER UNDER NO-LOAD CONDITIONS AND NOT LESS THAN 15 TIMES THE CABLE OUTSIDE DIAMETER WHEN THE CABLE IS UNDER TENSILE LOAD.
 - THE BEND RADIUS FOR OUTSIDE PLANT OPTICAL FIBER BACKBONE CABLE SHALL NOT BE LESS THAN THAT RECOMMENDED BY THE MANUFACTURER IF NO RECOMMENDATION IS KNOWN, THEN THE APPLIED BEND RADIUS SHALL NOT BE LESS THAN 10 TIMES THE CABLE OUTSIDE DIAMETER NO-LOAD CONDITIONS AND NOT LESS THAN 20 TIMES THE CABLE OUTSIDE DIAMETER WHEN THE CABLE IS UNDER A TENSILE LOAD.
- ALL OUTSIDE PLANT COPPER CABLES SHALL INCLUDE A MINIMUM OF TWO SERVICE LOOPS IN ALL VAULTS, MANHOLES, HANDHOLES OR JUNCTION BOXES EQUIVALENT TO TWO PERIMETERS OF THE STRUCTURE THE CABLE IS PASSING THROUGH, UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR TO COORDINATE ALL UNDERGROUND UTILITY ROUTINGS. KEEP A MINIMUM OF 6-IN CLEAR FROM ALL FOUNDATIONS IN PLAN
- CONTRACTOR TO COORDINATE UNDERGROUND UTILITY TO BE A MINIMUM OF 3' CLEAR BELOW THE BASE OF THE GRADE BEAMS WHEN PASSING BENEATH

ABBREVIATIONS:

AC	ALTERNATE CURRENT
ACP	ACCESS CONTROL PANEL
ACS	ACCESS CONTROL SYSTEM
AFG	ABOVE FINISHED GRADE
AMP	AMPLIFIER
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISH CEILING
BHS	BAGGAGE HANDLING SYSTEM
C	CONDUIT
CL	CENTER LINE
CLR	CLEAR
CM	CONSTRUCTION MANAGER
CMP	PLENUM CABLE
CMR	RISER CABLE
CT	CABLE TRAY
CV	COMMUNICATIONS VAULT
DAS	DISTRIBUTED ANTENNA SYSTEM
DC	DIRECT CURRENT
EMT	ELECTRICAL METALLIC TUBING
FOC	FIBER OPTIC CABLE
FOFP	FIBER OPTIC PATCH PANEL
G.C.	GENERAL CONTRACTOR
GRND	GROUND
GT	GROUND TRANSPORTATION
HORIZ	HORIZONTALLY
ID	IDENTIFICATION
IDC	INSULATION DISPLACEMENT CONTACT
IDF	INTERMEDIATE DISTRIBUTION FRAME
ISP	INSIDE PLANT CABLE
IT	INFORMATION TECHNOLOGY
JB	JUNCTION BOX
LAN	LOCAL AREA NETWORK
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MIN	MINIMUM
NOT	NOT TO SCALE
NTS	NATIONAL ELECTRIC CODE
OSP	OUTSIDE PLANT CABLE
PBB	PASSENGER BOARDING BRIDGE
PS	PASSENGER GATE
SOC	RIGID GALVANIZED STEEL SYSTEM ON CHIP
SCS	STRUCTURED CABLING SYSTEM
SMFO	SINGLE MODE FIBER OPTIC CABLE
STP	SHIELDED TWISTED PAIR
SUSP	SUSPENDED
T	TERMINAL
TBD	TO BE DETERMINED
TELECOM	TELECOMMUNICATIONS
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TO	TELECOMMUNICATION OUTLET
TR	TELECOMMUNICATIONS ROOM
TR	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VS	VEHICLE GATE
W/	WITH
WF	WALL FIELD

OUTLET: TYPES & CABLING

SYMBOL	DESCRIPTION
▼ TAG #	VOICE/DATA OUTLET # DENOTES THE NUMBER OF CABLES. REFER TO SCS TAG LEGEND FOR TAG DETAILS.
▽ TAG #	DATA OUTLET # DENOTES THE NUMBER OF CABLES. REFER TO SCS TAG LEGEND FOR TAG DETAILS.
▼ TAG #	VOICE OUTLET # DENOTES THE NUMBER OF CABLES. REFER TO SCS TAG LEGEND FOR TAG DETAILS.
▽ TAG #	FIBER OUTLET # DENOTES THE NUMBER OF CABLES. REFER TO SCS TAG LEGEND FOR TAG DETAILS.
TAG#	WALL MOUNTED FIBER ENCLOSURE PROVIDE MIN 1" CONDUITS FROM ADEQUATELY SIZED WALL ENCLOSURE TO NEAREST TELECOM ROOM. TERMINATE IN FIBER OPTIC PATCH PANEL IN CABINET. # DENOTES STRAND COUNT. REFER TO SCS TAG LEGEND FOR TAG DETAILS.

OUTLET: MOUNTING LEGEND

SYMBOL	DESCRIPTION
▼	WALL MOUNTED OUTLET
▽	PROVIDE 4-4-11/16"W x 4-11/16"H x 2-1/2" DEEP DOUBLE GANG BACK BOX, DOUBLE GANG PLASTER RING AND MINIMUM 1" CONDUIT FROM EACH OUTLET TO NEAREST ZONED TELECOM PATHWAY OR TR UON. OUTLET SHALL BE MOUNTED AT 18" AFF, UON.
▽	SURFACE MOUNTED OUTLET
▽	PROVIDE 4-4-11/16"W x 4-11/16"H x 2-1/2" DEEP DOUBLE GANG SURFACE MOUNT BACK BOX, DOUBLE GANG PLASTER RING AND MINIMUM 1" CONDUIT FROM EACH OUTLET TO NEAREST ZONED TELECOM PATHWAY OR TR UON. OUTLET SHALL BE MOUNTED AT 18" AFF, UON.
○	CEILING MOUNTED OUTLET
○	PROVIDE 4-4-11/16"W x 4-11/16"H x 2-1/2" DEEP DOUBLE GANG BACK BOX AND MINIMUM 1" CONDUIT FROM EACH OUTLET TO NEAREST ZONED TELECOM PATHWAY OR TR UON. OUTLETS SHALL BE MOUNTED ON UNDERSIDE OF STRUCTURE UON.
▽	FURNITURE FEED OUTLET
▽	PROVIDE 1-1/2" CONDUIT TO EACH FURNITURE FEED POINT FROM NEAREST ZONED TELECOM PATHWAY OR TR UON. PROVIDE 4-4-11/16"W x 4-11/16"H x 2-1/2" DEEP DOUBLE GANG BACK BOX FOR EACH OUTLET SHOWN. COORDINATE MOUNTING WITH ELECTRICAL DRAWINGS.

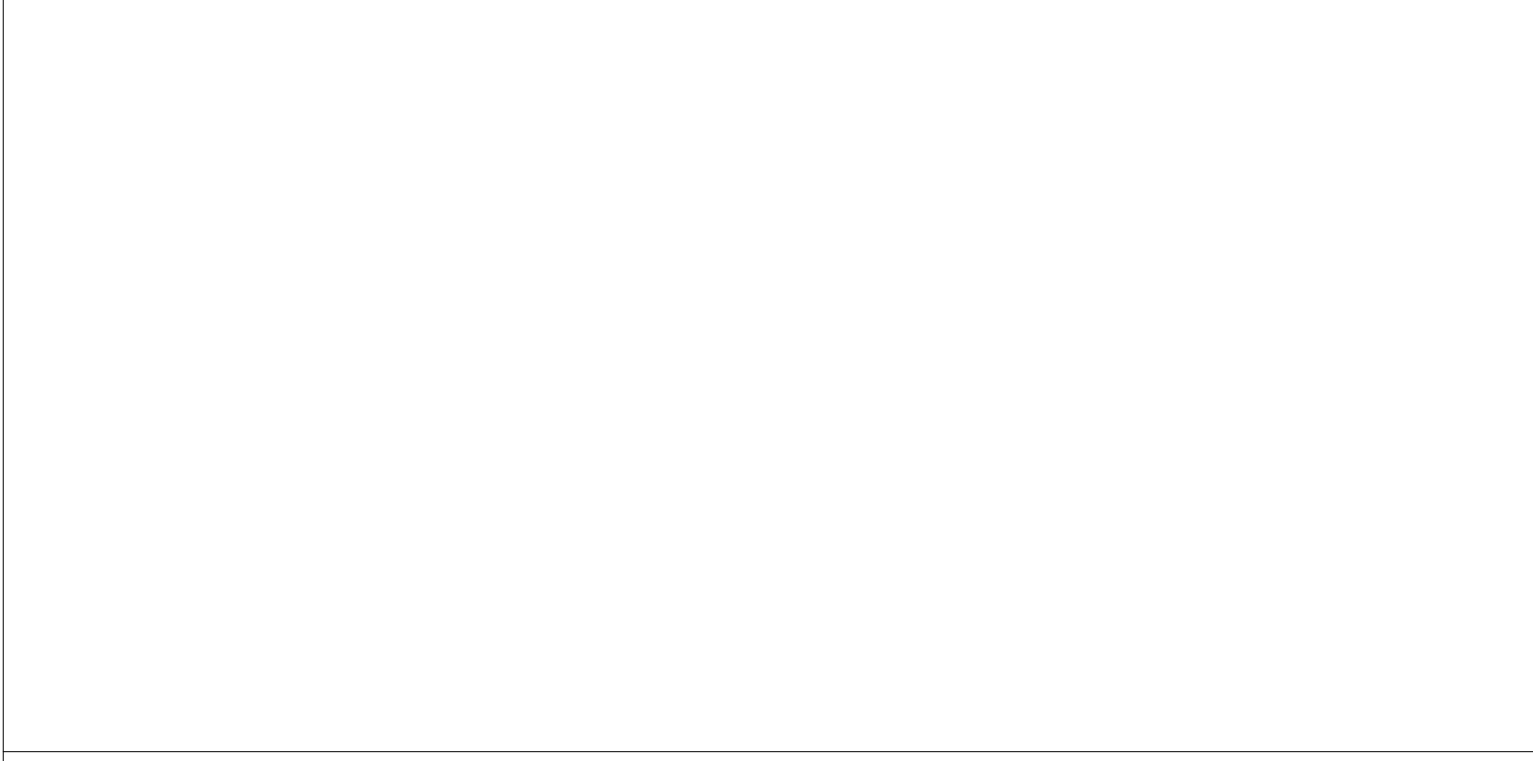
OUTLET: SYSTEM ID LEGEND

ID (X)	DESCRIPTION
(NONE)	STANDARD DATA OUTLET PROVIDE 4-PAIR UTP CATEGORY 6A CABLES X = DENOTES CABLE QTY.
AP	WIRELESS ACCESS POINT PROVIDE (1) 4-PAIR UTP CATEGORY 6A CABLE, UON. MOUNTING REQUIREMENTS: - CEILING: ON NEAREST STRUCTURAL ELEMENT ABOVE ACCESSIBLE CEILINGS - WALL: AT 1' 0" BFC TYPICAL BUT NOT MORE THAN 10' 0" AFF.
CCTV	CLOSED-CIRCUIT TELEVISION REFER TO SECURITY DRAWINGS FOR LOCATIONS, QUANTITIES AND MOUNTING DETAILS. PROVIDE (1) 4-PAIR UTP CATEGORY 6 CABLE, UON. MOUNTING REQUIREMENTS: - CEILING: ON NEAREST STRUCTURAL ELEMENT ABOVE ACCESSIBLE CEILINGS - WALL: AT 1' 0" BFC TYPICAL BUT NOT MORE THAN 10' 0" AFF.

PATHWAYS & MISCELLANEOUS

SYMBOL	DESCRIPTION
TXXX #	DETAIL REFERENCE: # = DETAIL NUMBER; XXXX = DRAWING NUMBER
	LADDER STYLE CABLE TRAY
—	SLEEVE / CONDUIT END
—	CONDUIT OR SLEEVE GOING UP
—	CONDUIT OR SLEEVE GOING DOWN
○	CONDUIT GOING THROUGH
—	TELECOM SPACES/ROOM OUTLINE
T-ZONE TR-#	TELECOM ZONE SERVED BY EITHER TR OR ER/TR # = TR (OR ER/TR) NUMBER
□	PULL BOX LL = LOWER LEVEL FF = FIRST FLOOR

STAMP AREA



REVISIONS

ISSUE	DATE	DESCRIPTION



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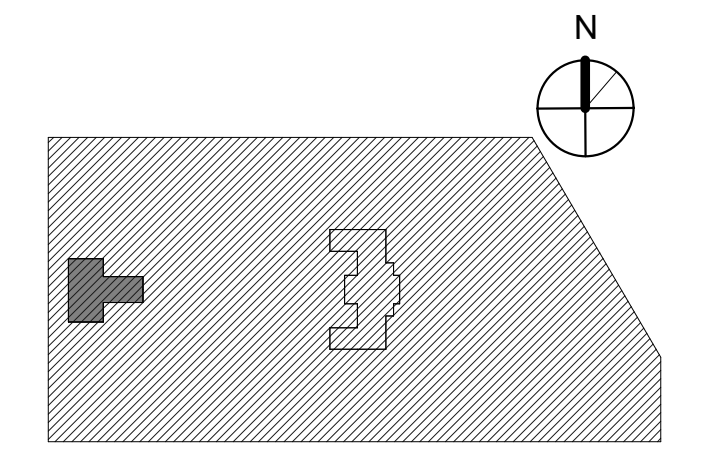


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KINGSESSING LIBRARY BUILDING RENOVATIONS AND SITE IMPROVEMENTS

KEY PLAN



DRAWING TITLE
TELECOM GENERAL NOTES, ABBREVIATIONS & SYMBOLS

PROJECT NO. 21070 DRAWING NO.

DATE 09/26/22

SCALE 12" = 1'-0"

DRAWN BY DK

CHECKED BY EH

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.

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09/26/22

T001-L

GENERAL NOTES:

1. ALL END DEVICES SHALL BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.
2. ALL CABLES SHALL BE RAN IN CONDUIT UON, ALL CONDUIT SHALL BE EMT AND NO LARGER THAN 2".
3. PAINT ALL CONDUIT AND PULL BOXES TO MATCH SURROUNDINGS.
4. COORDINATE FLOOR BOX PLACEMENT WITH ELECTRICAL DRAWINGS FOR POWER.

KEYED NOTES: (K)

1. RUN CABLES FROM FLOOR BOX TO CABLE TERMINATION FACE PPOINT IN FURNITURE CABLE TROUGH.
2. RUN CONDUIT ALONG TOP OF SHELVES, TURN UP TO DEVICES.
3. ROUTE CONDUIT UP ALONG THE SIDE AND TOP OF VESITUBLE. TURN CONDUIT INTO ROOF ACCESS CHASE.
4. RUN CONDUITS HORIZANTALLY ALONG FLOOR AROUND PERIMETER OF ROOM. TURN UP TO TERMINATION POINTS.

REVISIONS

ISSUE	DATE	DESCRIPTION
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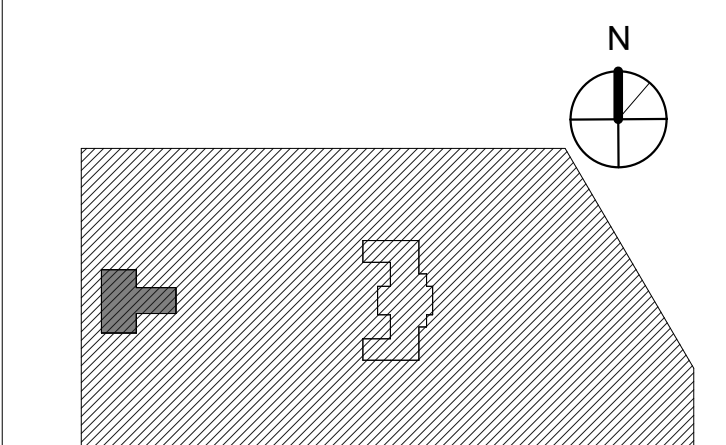


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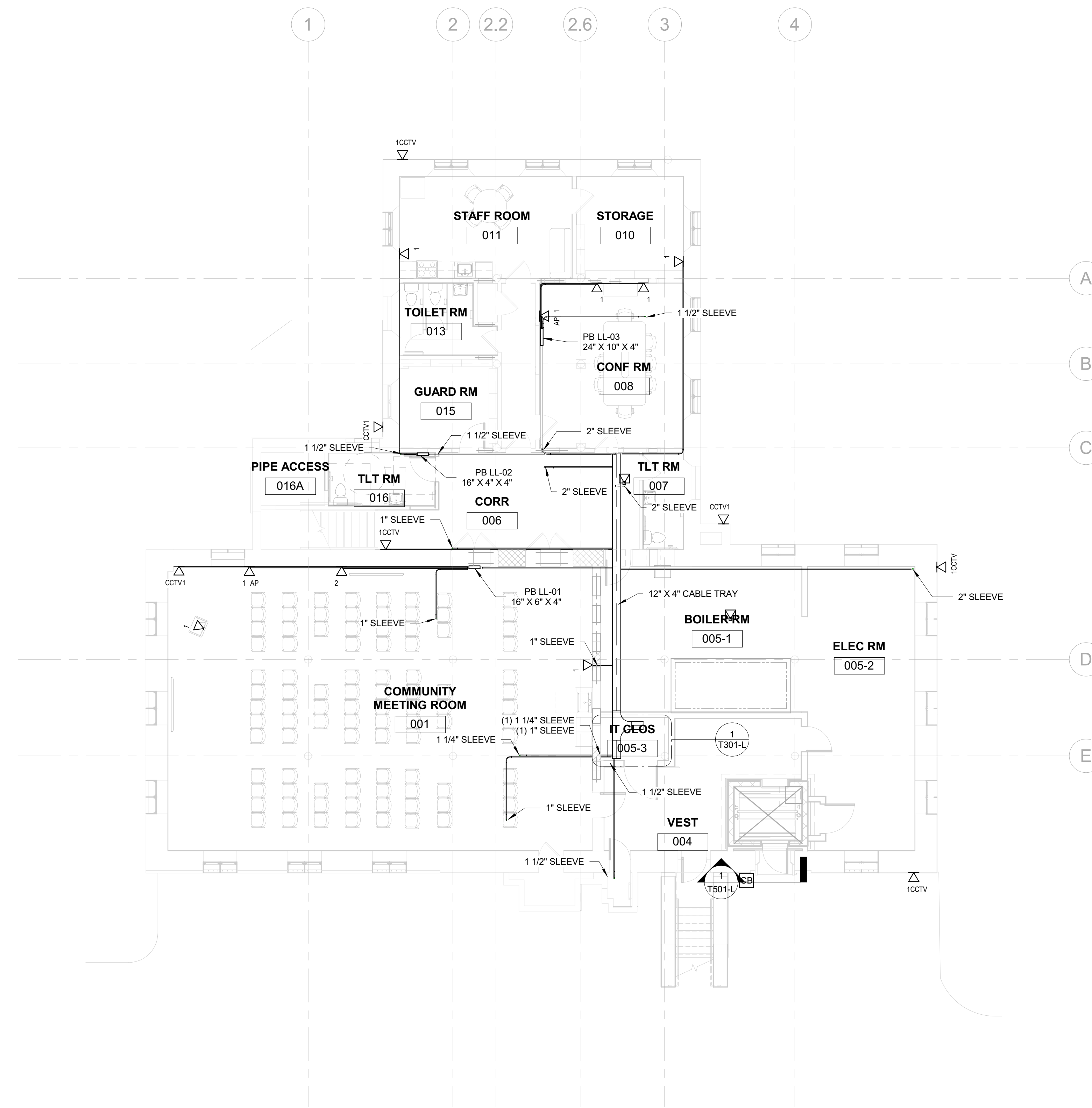
KEY PLAN



DRAWING TITLE
**TELECOM - NEW WORK
PLAN - LOWER LEVEL**

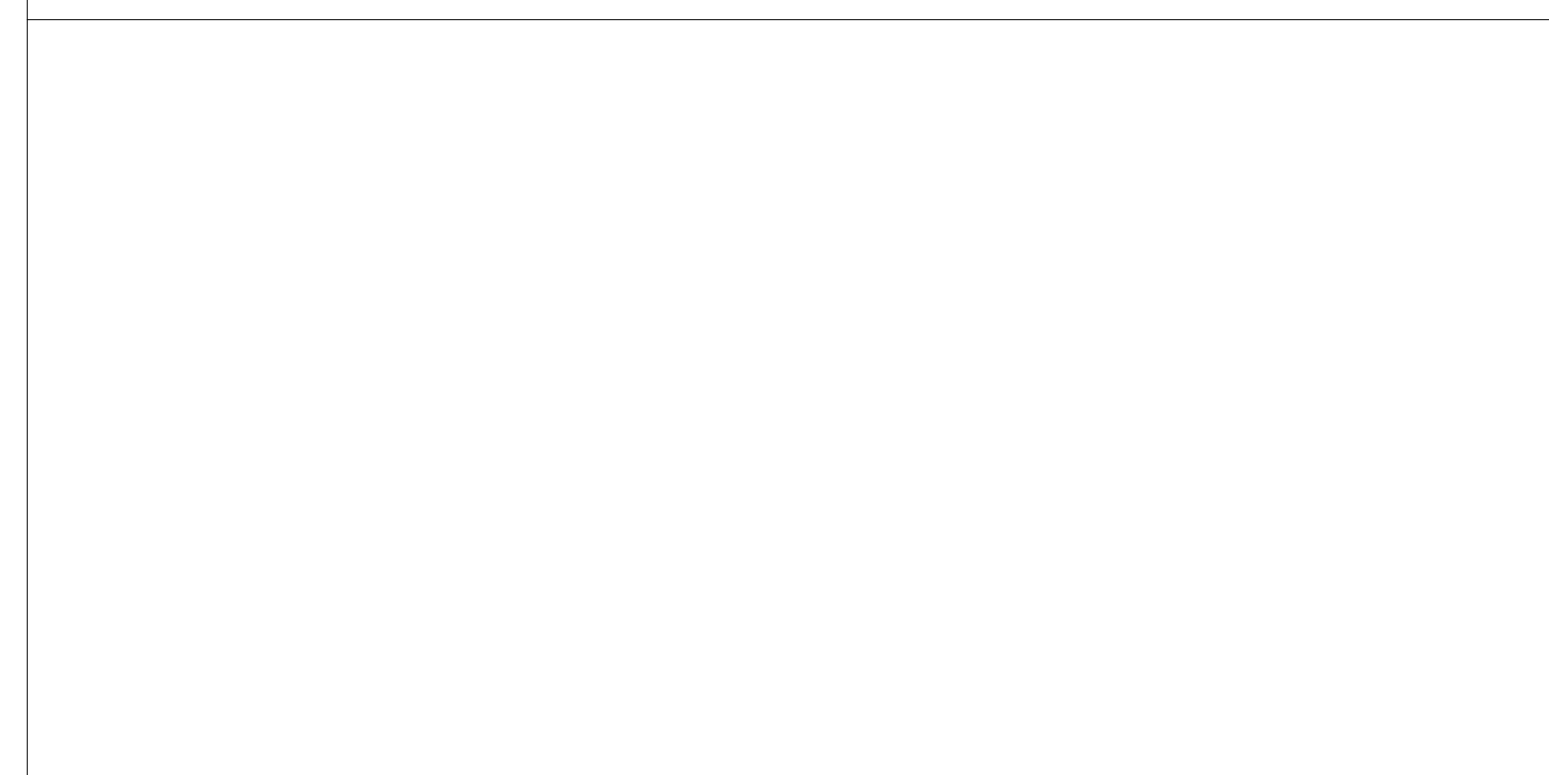
PROJECT NO. 21070	DRAWING NO. T101-L
DATE 09/26/22	
SCALE As indicated	
DRAWN BY DK	
CHECKED BY EH	

NOTE: ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE SITE BEFORE PROCEEDING WITH THE WORK.



① TELECOM FLOOR PLAN - LOWER LEVEL
1/8" = 1'-0"

STAMP AREA



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- GENERAL NOTES:**
1. ALL END DEVICES SHALL BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.
 2. ALL CABLES SHALL BE RAN IN CONDUIT UNON. ALL CONDUIT SHALL BE EMT AND NO LARGER THAN 2".
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 4. COORDINATE FLOOR BOX PLACEMENT WITH ELECTRICAL DRAWINGS FOR POWER.
- KEYED NOTES: (K)**
1. RUN CABLES FROM FLOOR BOX TO CABLE TERMINATION FACE POINT IN FURNITURE CABLE TROUGH.
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 4. RUN CONDUITS HORIZANTALLY ALONG FLOOR AROUND PERIMETER OF ROOM. TURN UP TO TERMINATION POINTS.

REVISIONS		
ISSUE	DATE	DESCRIPTION



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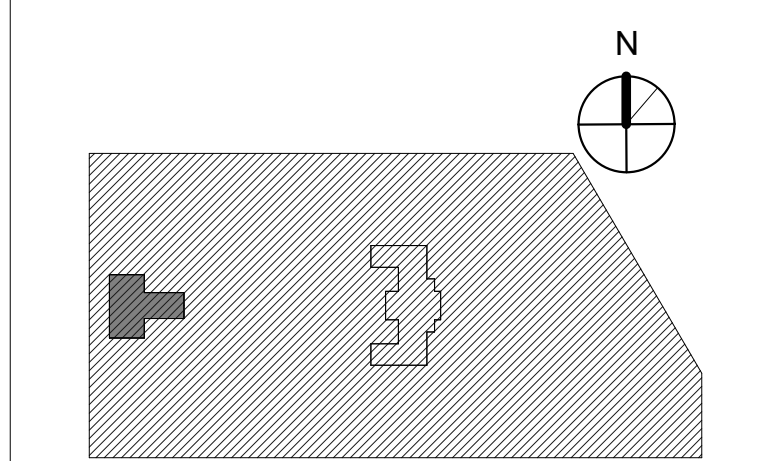


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PROJECT TITLE
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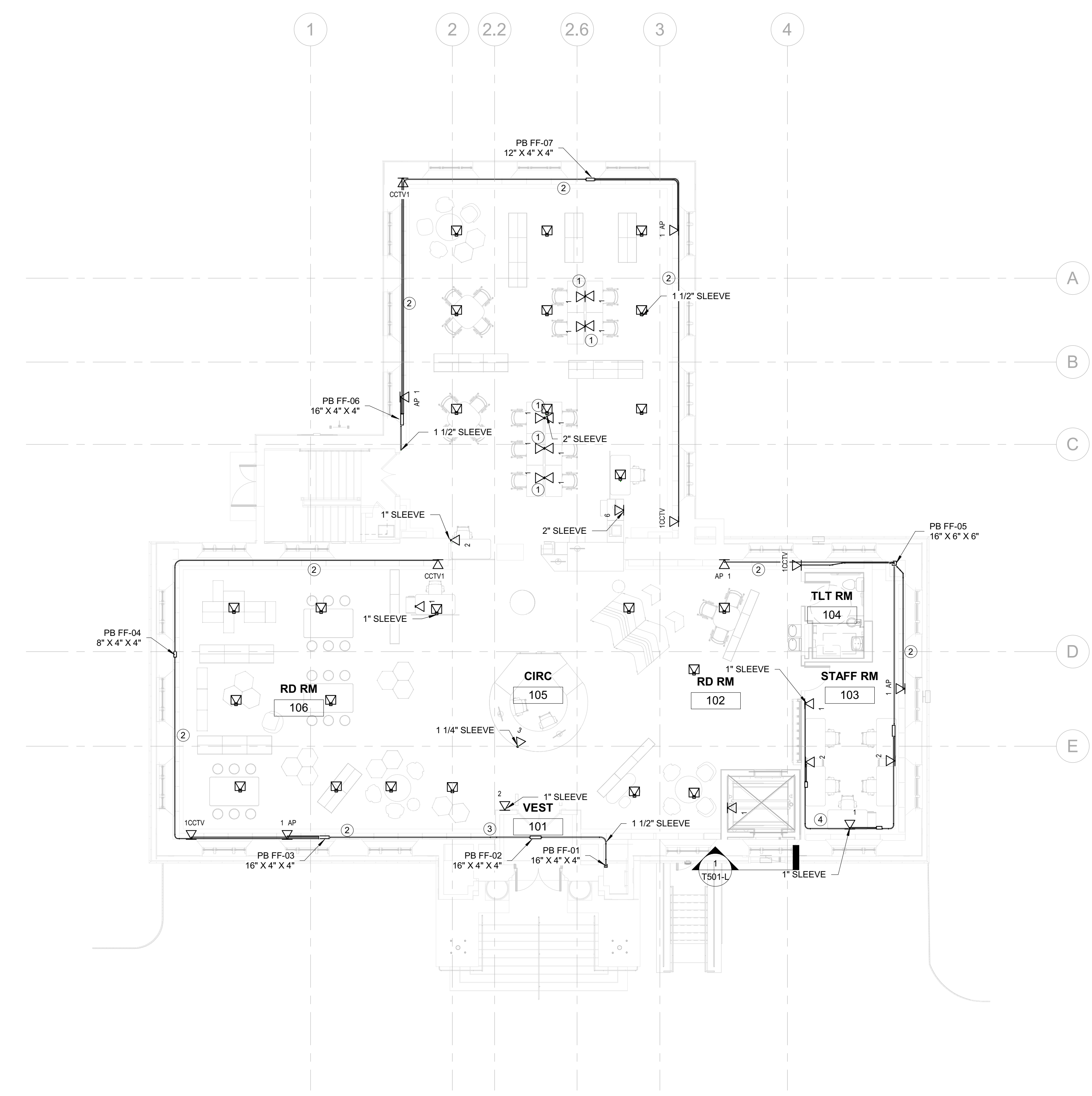
KEY PLAN



DRAWING TITLE
**TELECOM - NEW WORK
PLAN - FIRST FLOOR**

PROJECT NO. 21070	DRAWING NO. T102-L
DATE 09/26/22	
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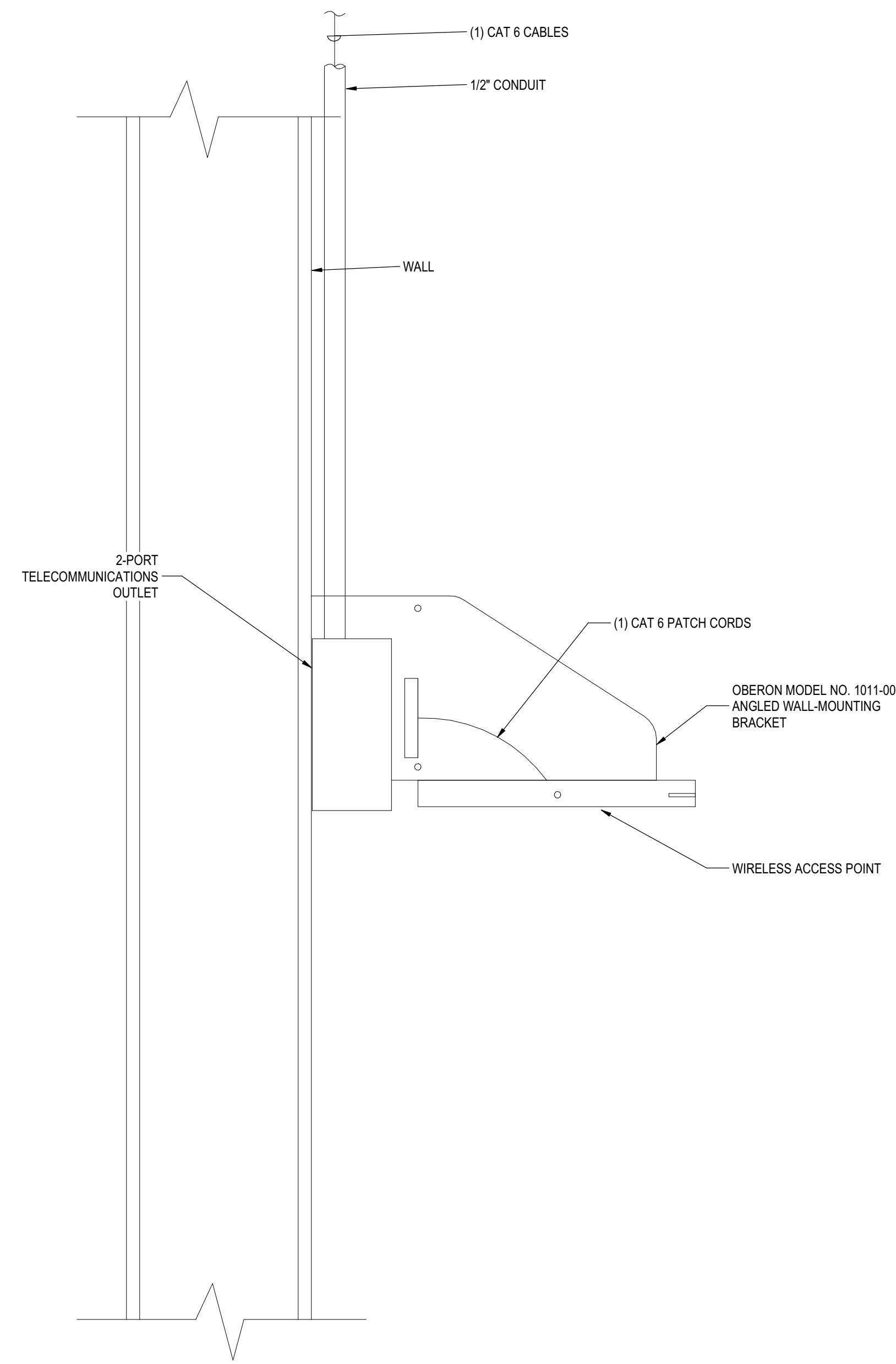
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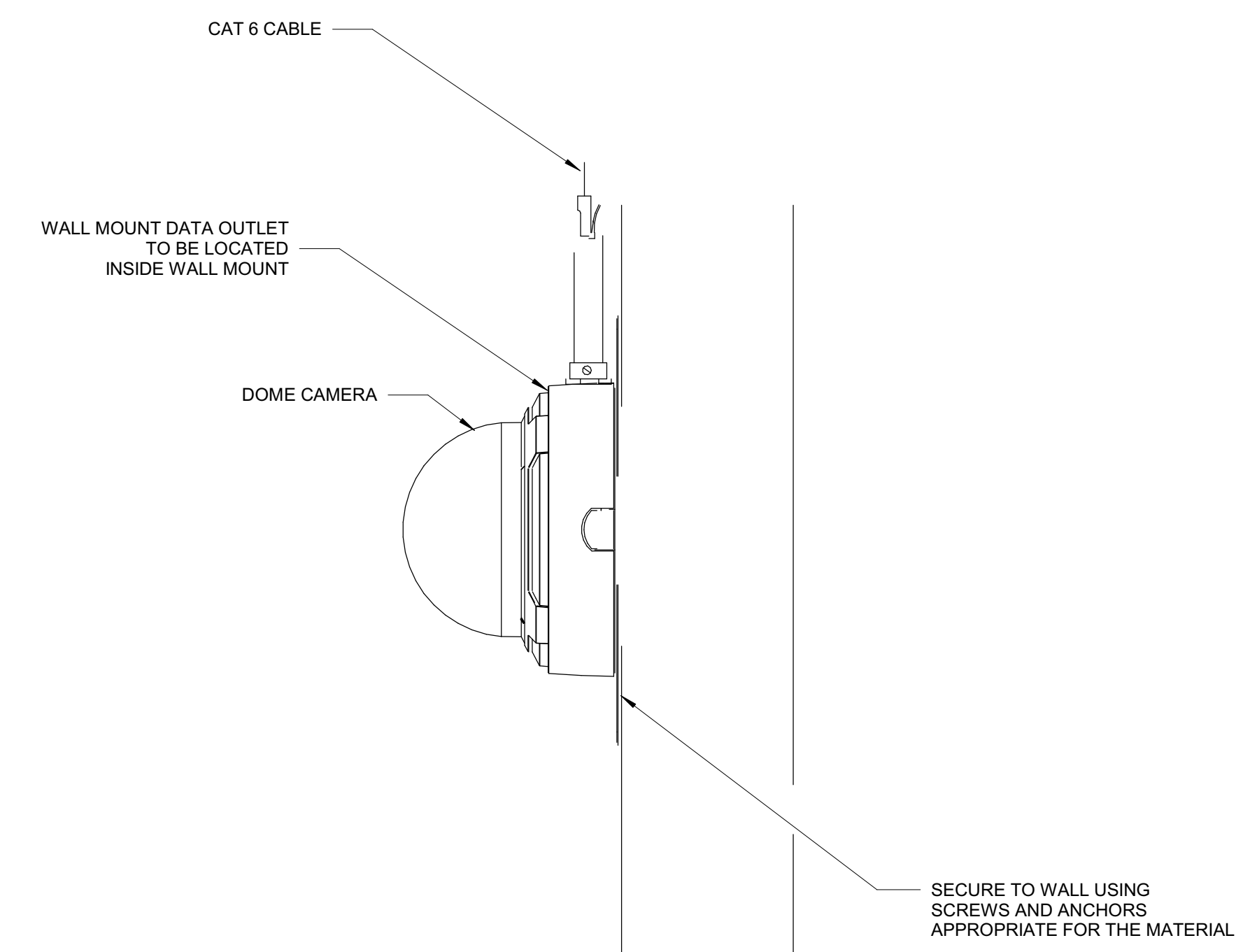
1 TELECOM FLOOR PLAN - FIRST FLOOR
1/8" = 1'-0"

STAMP AREA

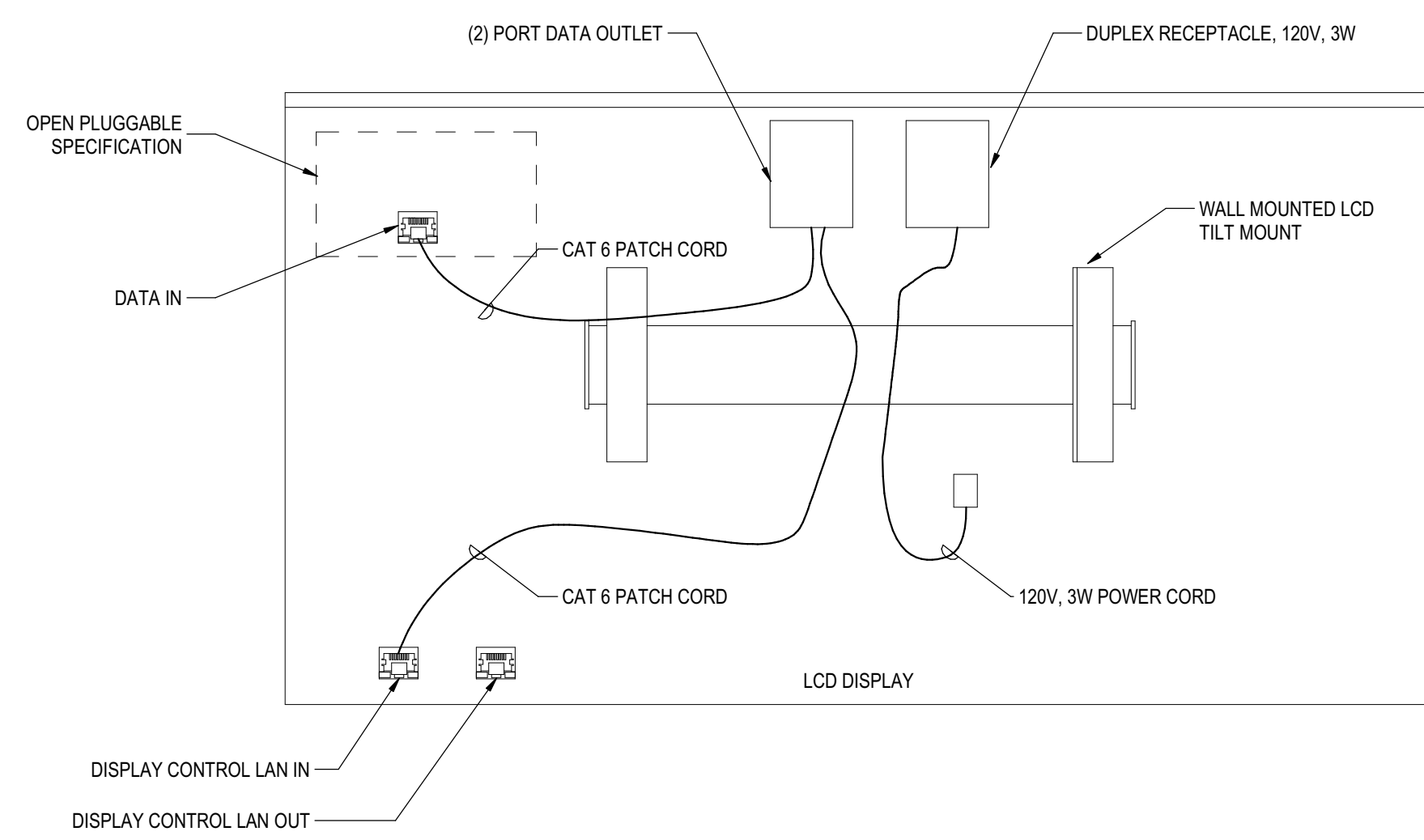
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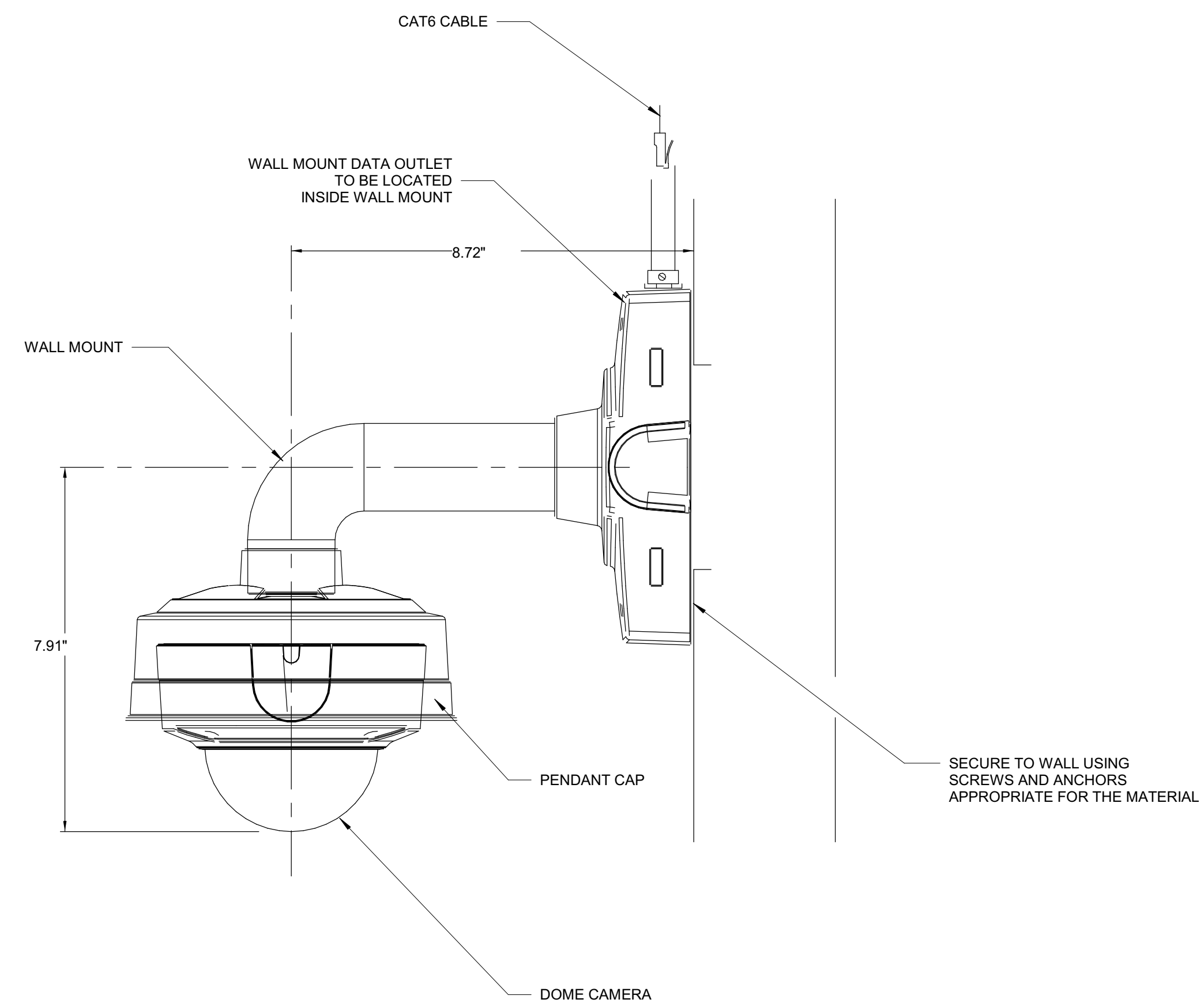
1 TYPICAL INDOOR, OMNIDIRECTIONAL, WALL-MOUNTED WIRELESS ACCESS POINT (WAP) N.T.S.



2 TYPICAL INDOOR CAMERA WALL MOUNT N.T.S.



4 WALL MOUNTED - TILT MOUNT LCD SCREEN N.T.S.



3 TYPICAL OUTDOOR CAMERA WALL PENDANT MOUNT N.T.S.

REVISIONS

ISSUE	DATE	DESCRIPTION
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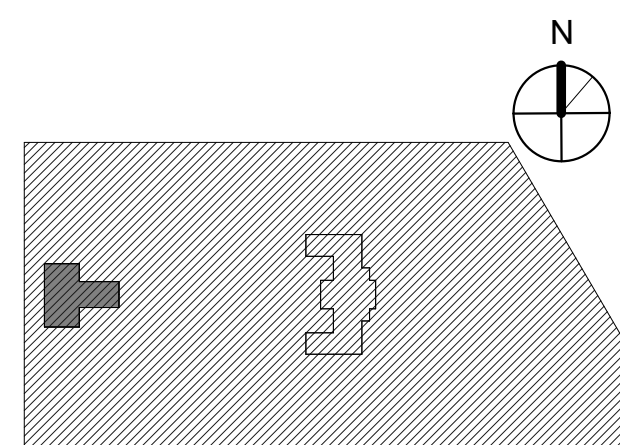


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KEY PLAN



DRAWING TITLE
TELECOM - DETAILS

PROJECT NO. 21070	DRAWING NO. T401-L
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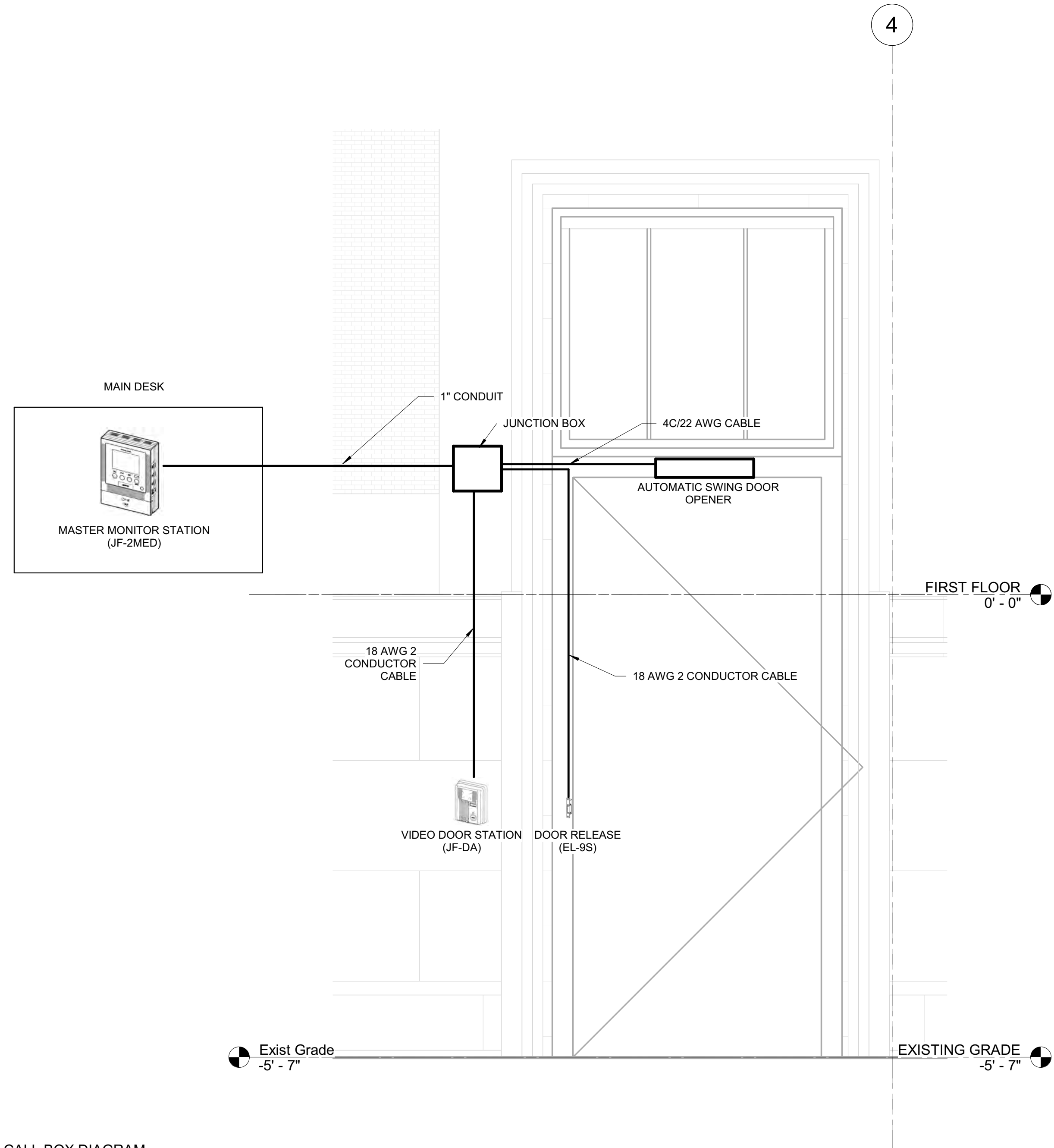
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STAMP AREA

NOTES:

- DESIGN BASED ON AIPHONE HANDS-FREE COLO VIDEO INTERCOM.



1 ELEVATOR DOOR CALL BOX DIAGRAM
N.T.S.

STAMP AREA



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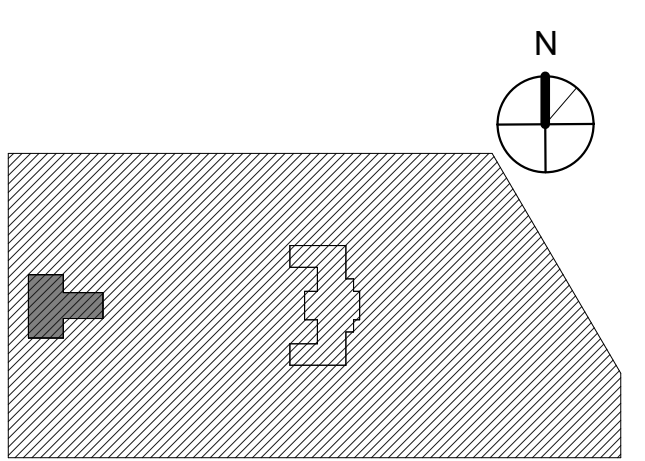


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DRAWING TITLE
TELECOM - DIAGRAMS

PROJECT NO. 21070	DRAWING NO.
DATE 09/26/22	T501-L
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