

QUAD NMAA: ESTABLISH CAFE AT SACKLER PAVILION

NATIONAL MUSEUM OF ASIAN ART (NMAA)
12TH AND INDEPENDENCE AVE SW

SF PROJECT NUMBER: 2209110

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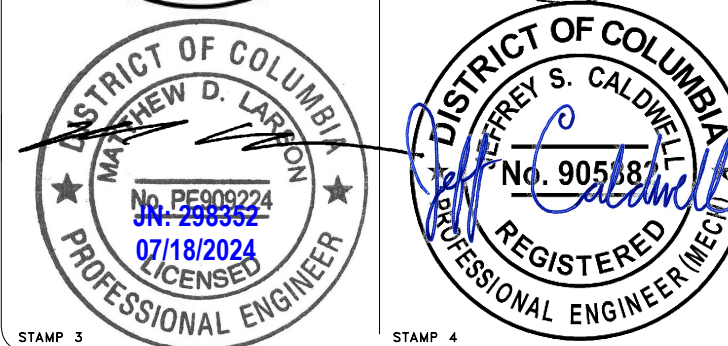
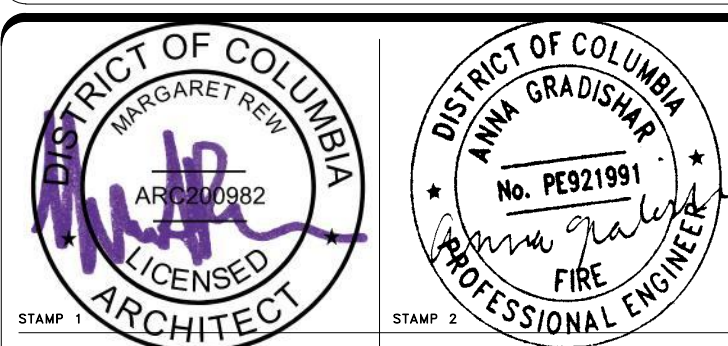
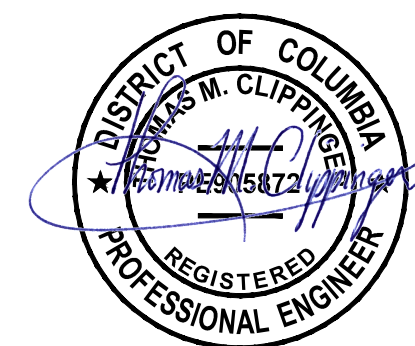
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FOR CONSTRUCTION

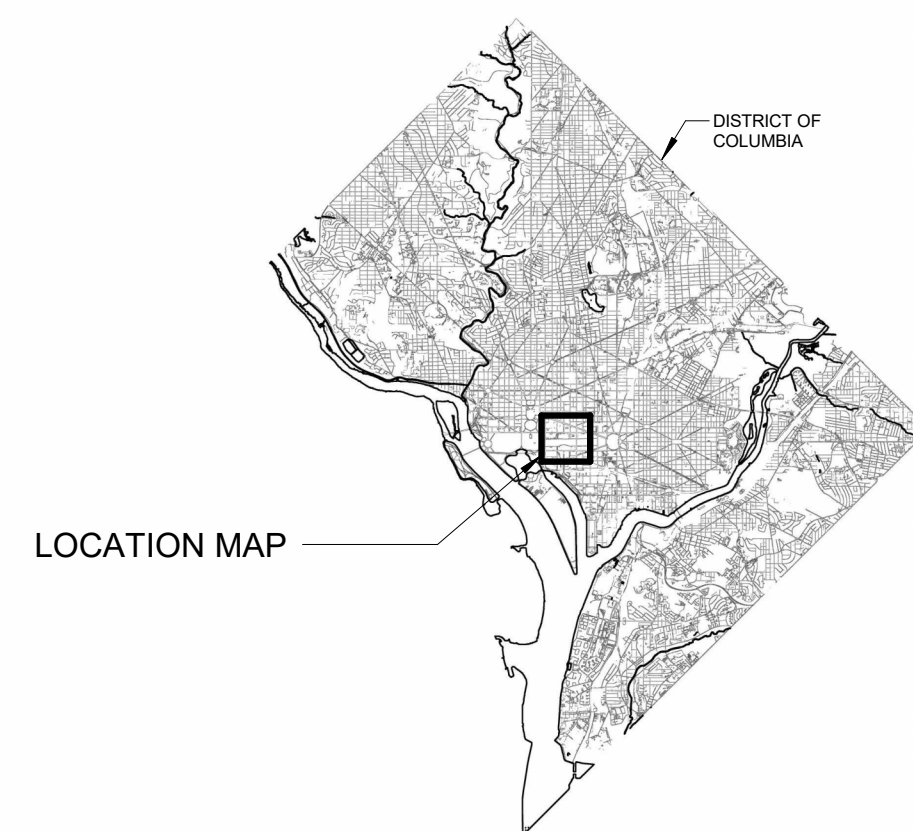


SMITHSONIAN FACILITIES
APPROVAL BLOCK

DM: _____
DESIGN CHIEF: _____
R.E.: _____
OPPM: _____
OFM&R: _____
OSHEM: _____
OPS: _____
THIS PROJECT IS APPROVED AS BEING IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF SMITHSONIAN INSTITUTION DIRECTIVE 410.

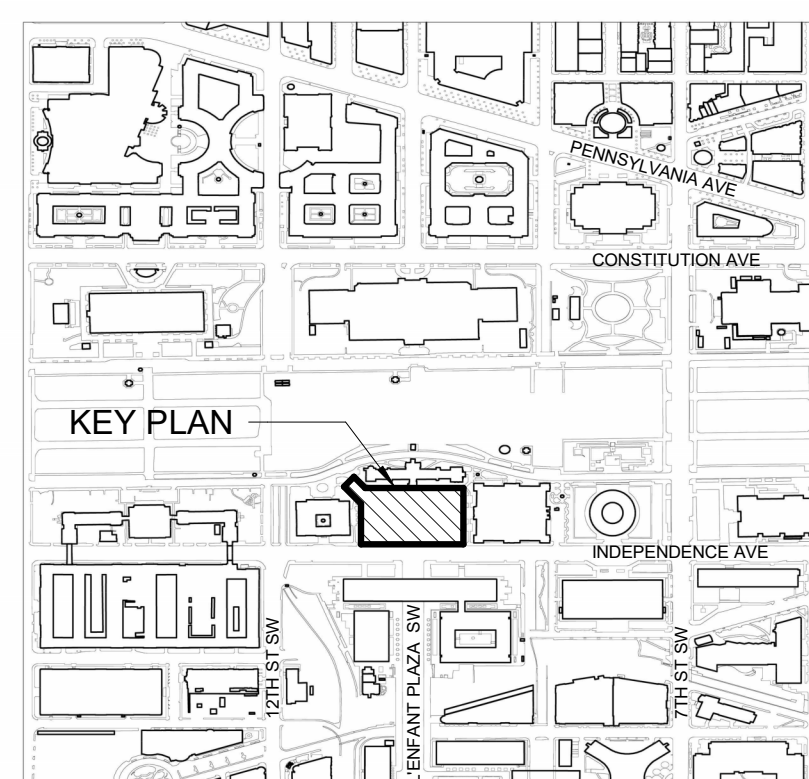
MICHAEL J. CARRANCHO, P.E., ASSOCIATE DIRECTOR, OEDC

VICINITY MAP



LOCATION MAP

LOCATION MAP



KEY PLAN

INDEX OF DRAWINGS

DRAWING NAME		DRAWING TITLE		DRAWING NAME		DRAWING TITLE		DRAWING NAME		DRAWING TITLE	
DISCIPLINE	TYPE SEQUENCE			DISCIPLINE	TYPE SEQUENCE			DISCIPLINE	TYPE SEQUENCE		
G-001		COVER SHEET		MD-401		HVAC PART PLAN - DEMOLITION		EP104PP		POWER PLAN BASEMENT B2	
S-001		STRUCTURAL GENERAL NOTES		M-101		HVAC FLOOR PLAN		EP105PP		POWER PLAN BASEMENT B3	
S-002		STRUCTURAL GENERAL NOTES		M-102		HVAC FLOOR PLANS		ET101CP		SYSTEMS PLAN GROUND	
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S-102		STRUCTURAL PAVILION LEVEL FLOOR PLAN		M-501		HVAC DETAILS		E-501DT		ELECTRICAL DETAILS	
S-401		STRUCTURAL COATROOM 0015 ENLARGED PLAN AND DETAILS		P-001		PLUMBING LEGEND		E-502DT		ELECTRICAL DETAILS	
S-501		STRUCTURAL DETAILS		PD-101		PLUMBING FLOOR PLAN - DEMOLITION		E-503DT		ELECTRICAL DETAILS	
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MD-103		HVAC FLOOR PLAN - DEMOLITION		EP102PP		POWER PLAN MEZZANINE					
MD-104		HVAC FLOOR PLAN - DEMOLITION		EP103PP		POWER PLAN BASEMENT B1					

DATE	07/18/24	SUBMISSION	Final Construction Documents
REVISION #	DATE	DESCRIPTION	



BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	COVER SHEET
WORKING STAFF	DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____
SHEET NO.	G - 001
1 of 103	DISCIPLINE TYPE SEQUENCE DRAWING TITLE

CODES AND STANDARDS

- WHERE CODES AND STANDARDS ARE REFERENCED IN THE CONTRACT DOCUMENTS, THEY SHALL BE THE LATEST EDITIONS, UNLESS NOTED OTHERWISE.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF 2021 INTERNATIONAL BUILDING CODE (IBC) INCLUDING REFERENCE STANDARDS, ADDENDA AND APPENDICES.
- IN ADDITION, THE FOLLOWING CODES, STANDARDS AND SPECIFICATIONS SHALL APPLY WHERE MORE STRINGENT AND AS MODIFIED BY THE BUILDING CODE:
 - A. ACI 318-19: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY.
 - B. AISC: STEEL CONSTRUCTION MANUAL, 15TH EDITION.
 - C. AISC 303-10: CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES.
 - D. ANSIAISC 341-16: SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS.
 - E. ANSIAISC 358-16/s1-18: PREQUALIFIED CONNECTIONS FOR SPECIAL AND INTERMEDIATE STEEL MOMENT FRAMES FOR SEISMIC APPLICATIONS.
 - F. ANSIAISC 360-16: SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.
 - G. AISI S100-16(2020) W/ S2-20: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
 - H. ASCE 7-16 W/ SUPP. NO.1: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
 - I. AWS D1.1/D1.1M:2010: STRUCTURAL WELDING CODE-STEEL.
 - J. AWS D1.3/D1.3M:2008: STRUCTURAL WELDING CODE - SHEET STEEL.
 - K. AWS D1.4/D1.4M:2018: STRUCTURAL WELDING CODE - REINFORCING STEEL.
 - L. AWS D1.8/D1.8M:2009: STRUCTURAL WELDING CODE - SEISMIC SUPPLEMENT.
 - M. ACI 530-11: BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
 - N. RCSC-2009: SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.
 - O. SSPC: THE SOCIETY FOR PROTECTIVE COATINGS STANDARDS.
- THE ASTM STANDARDS REFERRED TO IN THE DRAWINGS AND SPECIFICATIONS AND USED IN DESIGN ARE THOSE INCLUDED AS REFERENCED STANDARDS TO THE PROJECT GOVERNING CODE(S). WHERE AN ASTM STANDARD HAS SUBSEQUENTLY BEEN REVISED, CONSTRUCTION SHALL COMPLY WITH BOTH THE LATEST EDITION OF THAT STANDARD AND THE EDITION OF THAT STANDARD REFERENCED IN DESIGN. WHERE IT IS NOT POSSIBLE TO SATISFY THE REQUIREMENTS OF BOTH EDITIONS OF THE STANDARDS DUE TO A CONFLICT BETWEEN THEM, NOTIFY THE ARCHITECT AND ENGINEER BEFORE PROCEEDING.

TEMPORARY WORK

- ALL TEMPORARY WORK SHALL BE DESIGNED, INSTALLED AND CARRIED OUT BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT GOVERNING CODE(S).
- THE DRAWINGS INDICATE THE COMPLETED STRUCTURE. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ALL TEMPORARY MEASURES NECESSARY FOR ERECTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE PROPER SHORING AND BRACING WHEREVER NECESSARY. ALL TEMPORARY SHORING/BRACING SHALL BE DESIGNED BY A CIVIL AND/OR STRUCTURAL ENGINEER REGISTERED IN DISTRICT OF COLUMBIA.
- THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE SHORING DRAWINGS AND CALCULATIONS TO THE AUTHORITY HAVING JURISDICTION AS REQUIRED.
- CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LIVE LOADS PER SQUARE FOOT AS SHOWN ON THE DRAWINGS. PROVIDE SHORING AND/OR BRACING WHERE THE STRUCTURE HAS NOT ATTAINED ITS DESIGN STRENGTH.

EXISTING CONDITIONS

- THIS PROJECT IS THE RENOVATION OF AN EXISTING STRUCTURE.
- THE EXISTING CONDITION INFORMATION USED IN THIS DESIGN IS BASED ON THE FOLLOWING DOCUMENTS:
 - A. THE INFORMATION SHOWN HEREIN, SPECIFICALLY SLAB THICKNESS, SLAB RIB THICKNESS, DROP PANEL THICKNESS, BEAM SIZES, COLUMN SIZES, AND FRAMING LAYOUT IS OBTAINED FROM THE EXISTING STRUCTURAL DRAWINGS PREPARED BY EWELL W. FINLEY, P.C. AND MUESER RUTLEDGE JOHNSTON AND DESIGNED, DATED 04/13/1983.
- THE CONTRACTOR SHALL REVIEW ALL EXISTING DOCUMENTS AVAILABLE FROM THE COFR PRIOR TO STARTING THE WORK, IN SUPPORT OF A COMPLETE UNDERSTANDING OF THE EXISTING CONDITIONS.
- EXISTING STRUCTURE PLANS, SECTIONS AND DETAILS SHOWN IN STRUCTURAL DRAWINGS ARE TAKEN FROM THE ORIGINAL DESIGN DOCUMENTS AND MAY NOT ACCURATELY REPRESENT CURRENT EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY ALL INFORMATION RELATED TO THE EXISTING STRUCTURE BY INSPECTION AND OR BY SURVEY PRIOR TO DOING ANY WORK.
- ASSUMPTIONS FOR THE STRENGTH OF THE EXISTING STRUCTURAL CONCRETE AND REINFORCEMENT ARE AS SHOWN IN THE ORIGINAL DESIGN DOCUMENTS, AND WE HAVE ASSUMED THE STRENGTHS ARE NOTED ON THE EXISTING DRAWINGS REFLECT THE AS-CONSTRUCTED CONDITION.

EXISTING STRUCTURAL ELEMENT	STRENGTH VALUES PER ORIGINAL DESIGN
CONCRETE WAFFLE SLAB	$f_c = 4000$ PSI
SOLID CONCRETE SLAB	$f_c = 4000$ PSI
ASTM A615 GRADE 60 REINFORCING BARS	$F_y = 60$ KSI

- THE TOTAL LOAD ON THE EXISTING STRUCTURE INCLUDING ANY ADDITIONAL NEW LOAD SHALL NOT EXCEED THE DESIGN LIVE LOADS PER SQUARE FOOT AS SHOWN ON THE ORIGINAL DRAWINGS.

LOAD TYPE	APPLICABLE LEVELS	VALUES PER ORIGINAL DESIGN
LIVE LOAD	ALL LEVELS	100 PSF
SUPER IMPOSED DEAD LOAD	PAVILION FLOOR AREA	40 PSF

DEMOLITION

- THE TERMS "DEMOLISH", "DECONSTRUCTION" AND "REMOVE" ARE USED INTERCHANGEABLY IN THESE DRAWINGS. IN EACH AND EVERY CASE, THESE TERMS SHALL MEAN "DECONSTRUCT/EXCAVATE AND REMOVE DEBRIS RESULTING FROM DECONSTRUCTION/EXCAVATION."
- THE CONTRACTOR SHALL NOTIFY ALL LOCAL AGENCIES HAVING JURISDICTION, AND SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS REQUIRED FOR THE DEMOLITION AND REMOVAL OF THE DEBRIS RESULTING FROM THE DEMOLITION.
- ERECT AND MAINTAIN DUST-PROOF BARRIERS TO PREVENT THE SPREAD OF DUST AND FUMES AND PROVIDE MEANS FOR EFFECTIVE DUST CONTROL.
- THE USE OF EXPLOSIVES IS NOT PERMITTED.
- REMOVE ALL DEMOLISHED MATERIAL FROM THE SITE PROMPTLY.
- IF SAFETY OR INTEGRITY OF STRUCTURAL SYSTEM APPEARS TO BE ENDANGERED, CEASE OPERATIONS IMMEDIATELY AND NOTIFY THE COFR, PROPERLY BRACE AND SUPPORT STRUCTURE BEFORE RESUMING OPERATIONS.
- NO DEMOLITION MACHINES OR DEMOLITION DEBRIS IS TO BE SUPPORTED BY EXISTING STRUCTURES TO REMAIN WITHOUT EVALUATION BY CONTRACTOR.
- WHERE CONCRETE SLAB DEMOLITION OCCURS ADJACENT TO STRUCTURE TO REMAIN, SLAB IS TO BE SAWCUT OVER FULL DEPTH OF SLAB, UOIN IN DEMOLITION OR NEW WORK SECTION. CORE DRILL CORNERS PRIOR TO SAWCUTTING. DO NOT OVERCUT CORNERS.
- CORE DRILLING OF BEAMS AND COLUMNS IS NOT ALLOWED. ALL CORE DRILLS REQUIRE APPROVAL OF ENGINEER PRIOR TO CORING. CONTRACTOR TO PROVIDE GPR SCANS OF ALL CORES TO COFR FOR REVIEW.

DELEGATED DESIGN

- BUILDING COMPONENTS THAT HAVE BEEN DEFINED AS DELEGATED DESIGN COMPONENTS PER THE DRAWINGS AND/OR PROJECT SPECIFICATION INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
 - A. FIBER-REINFORCED POLYMER DESIGN
 - B. STEEL CONNECTIONS
- THE CONTRACTOR IS REQUIRED TO SUBMIT DRAWINGS AND CALCULATIONS (STAMPED AND SIGNED BY A LICENSED ENGINEER LICENSED IN THE DISTRICT OF COLUMBIA) FOR ALL SUCH COMPONENTS TO THE BUILDING OFFICIAL. THESE COMPONENTS SHALL NOT BE INSTALLED UNTIL THE COMPONENT DESIGN HAS BEEN APPROVED.
- THE COMPONENT DESIGNER SHALL BE RESPONSIBLE FOR THAT COMPONENT'S CONFORMANCE TO THE CODE AND ALL DESIGN CRITERIA INDICATED IN THE CONSTRUCTION DOCUMENTS AND ALL NECESSARY CONNECTIONS NOT SPECIFICALLY SHOWN IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- COMPONENT DESIGN SHALL BE SUBMITTED TO THE DESIGN TEAM FOR REVIEW OF GENERAL CONFORMANCE WITH DESIGN CRITERIA. SUBMITTALS TO THE DESIGN TEAM SHALL BE STAMPED AND SIGNED BY A LICENSED ENGINEER AND SHALL INCLUDE THE FOLLOWING:
 - A. DRAWINGS WHICH INDICATE THE MAGNITUDE, DIRECTION, AND LOCATION OF ALL LOADS IMPOSED ON THE PRIMARY STRUCTURE
 - B. CONNECTION DETAILS THAT SHOW HOW THE COMPONENT IS CONNECTED TO THE PRIMARY STRUCTURE
 - C. DESIGN CALCULATION DEMONSTRATING CONFORMANCE WITH CODE REQUIREMENTS AND DESIGN CRITERIA. CALCULATIONS SHALL CLEARLY INDICATE A COMPLETE LOAD PATH FOR BOTH THE VERTICAL AND LATERAL LOADS TO THE PRIMARY STRUCTURE

SUBMITTALS

- CONTRACTOR SHALL REFER TO SECTION 013300 DIVISION 1 OF THE GENERAL REQUIREMENTS SPECIFICATION FOR THE PROCEDURES OF ALL SUBMITTALS IN ADDITION TO THE REQUIREMENTS LISTED BELOW.
- THE CONTRACTOR SHALL PREPARE AND MAINTAIN A SUBMITTAL REVIEW SCHEDULE, CLEARLY INDICATING THE NUMBER AND TYPE OF SUBMITTALS ISSUED TO THE DESIGN TEAM EACH WEEK.
- SUBMITTALS SHALL BE ISSUED TO THE DESIGN TEAM IN THE ORDER IN WHICH REVIEWS ARE REQUIRED BY THE CONTRACTOR. THE DESIGN TEAM WILL ONLY REVIEW SUBMITTALS IN THE ORDER IN WHICH THEY WERE RECEIVED.
- SUBSTITUTION REQUESTS, REMEDIAL WORKS FOR FIELD CONDITIONS, REMEDIAL WORKS FOR CONTRACTOR ERRORS, AND SIMILAR CONDITIONS SHALL BE AGREED BY THE DESIGN TEAM IN WRITING PRIOR TO THEIR ISSUANCE BY THE CONTRACTOR AS A SUBMITTAL.
- ONLY SUBMITTALS REQUIRED BY THESE SPECIFICATIONS, AS WELL AS ANY ADDITIONAL SUBMITTALS AGREED TO IN WRITING, SHALL BE REVIEWED BY THE DESIGN TEAM.
- THE DESIGN TEAM RESERVES THE RIGHT TO REJECT SUBMITTALS IF ANY OF THE REQUIREMENTS STATED IN THIS SECTION ARE NOT MET.
- THE CONTRACTOR UNDERSTANDS THAT AN ORDERLY SUBMITTAL PROCESS, MEETING THE CONDITIONS STATED IN THIS SECTION, IS A PRE-REQUISITE FOR THE DESIGN TEAM TO MEET THE AGREED SUBMITTAL REVIEW PERIODS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED BY A DRO OR CSE INCLUDING REGISTRATION NUMBER AS REQUIRED BY THE SPECIFICATIONS, FOR ENGINEER'S APPROVAL.
- ONLY SHOP DRAWINGS MARKED "NO EXCEPTIONS TAKEN", "REVISE AS NOTED" OR "SEE COMMENTS NOTED" MAY BE USED BY CONTRACTOR IN THE WORK. SHOP DRAWINGS MARKED "REJECTED" OR "RESUBMIT FOR REVIEW" SHALL BE CORRECTED AND COMPLETED AS REQUIRED AND RESUBMITTED TO THE ARCHITECT AND REVIEWED BY THE ARCHITECT BEFORE THEY ARE USED IN THE WORK.
- THE REVIEW PERIOD FOR SUBMITTALS AND SHOP DRAWINGS SHALL BE 21 CALENDAR DAYS FROM RECEIPT OF SUBMITTAL OR SHOP DRAWING
- THE REVIEW PERIOD FOR REQUESTS FOR INFORMATION SHALL BE 7 CALENDAR DAYS FROM RECEIPT OF REQUEST FOR INFORMATION.

STRUCTURAL STEEL

STRUCTURAL STEEL MEMBERS SHALL CONFORM TO THE FOLLOWING UNLESS NOTED OTHERWISE:

SHAPE	GRADE	YIELD STRENGTH F_y (KSI)
WIDE FLANGE SHAPES	ASTM A992	50
BAR	ASTM A36	36
L PROFILE	ASTM A572 GR 50	50
PLATES	ASTM A572 GR 50	50

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:
 - A. ALL ERECTION AIDS.
 - B. STEELWORK ERECTION SEQUENCE. IN DETERMINING THE ERECTION SEQUENCE THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO MINIMIZE THE EFFECTS OF TEMPERATURE CHANGES AND DIFFERENTIAL TEMPERATURE EFFECTS (SUCH AS EXPOSURE TO STRONG SUN ON ONE SIDE OF THE BUILDING) WHILE MEETING AISC ACCEPTABLE ERECTION TOLERANCES.
- THE CONTRACTOR SHALL SUBMIT DETAILED, COORDINATED AND CHECKED SHOP DRAWINGS FOR ALL STRUCTURAL STEEL MEMBERS AND CONNECTIONS TO THE ARCHITECT FOR REVIEW PRIOR TO THE START OF FABRICATION AND ERECTION.
- STRUCTURAL AND ARCHITECTURAL STEEL PERMANENTLY EXPOSED TO WEATHER SHALL BE CORROSION PROTECTED BY BEING HOT-DIPPED GALVANIZED AND/OR SUITABLY PRIMED AND PAINTED AS SHOWN ON ARCHITECTURAL DRAWINGS AND PER PROJECT SPECIFICATIONS.
- CUTTING AND DRILLING OF STRUCTURAL STEEL MEMBERS IN THE FIELD IS NOT PERMITTED UNLESS OTHERWISE NOTED OR INSTRUCTED.
- NO OPENINGS AND/OR PENETRATIONS SHALL BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY SHOWN AND DETAILED ON THE STRUCTURAL DRAWINGS.

STRUCTURAL STEEL WELDING

- ALL WELDING SHALL BE DONE BY AWS CERTIFIED WELDERS.
- SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS.
- WELDS SHALL BE MADE USING LOW-HYDROGEN ELECTRODES WITH MINIMUM TENSILE STRENGTH OF 70 KSI (E70XX ELECTRODES) UNLESS NOTED OTHERWISE.
- WELD LENGTHS CALLED FOR ON DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE LENGTH OF WELD IS NOT SHOWN IT SHALL BE THE FULL LENGTH OF JOINT.
- ALL GROOVE AND BUTT WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) WELDS UNLESS NOTED OTHERWISE.
- ALL PARTIAL PENETRATION GROOVE WELD SIZES SHOWN ON THE DRAWINGS REFER TO THE EFFECTIVE THROAT THICKNESS.
- FILLET WELD SIZES SHOWN ON DRAWINGS ARE MINIMUM SIZES. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON PLATE THICKNESS. THE MINIMUM FILLET WELD SIZE SHALL BE 3/16".
- PROJECT SPECIFIC WELDING PROCEDURE SPECIFICATION (WPS) FOR ALL SHOP AND FIELD WELDS ON THE PROJECT SHALL BE SUBMITTED FOR REVIEW AND ACCEPTANCE PRIOR TO STARTING FABRICATION OR ERECTION. THE WPS SHALL BE SUBMITTED TO OWNER'S TESTING LAB FOR REVIEW AND ACCEPTANCE PRIOR TO BEING SUBMITTED TO THE ARCHITECT.
- THE CONTRACTOR SHALL DETERMINE THE SEQUENCE AND PROCEDURES OF WELDING TO MINIMIZE THE EFFECT WELD SHRINKAGE, RESIDUAL STRESSES AND TO MAINTAIN ERECTION TOLERANCES.
- ALL STEEL EXPOSED TO WEATHER SHALL HAVE ADDITIONAL SEAL WELDING TO PROTECT THE MEMBERS (PIPES, TUBES, BUILT-UPS) AND THE CONNECTIONS FROM MOISTURE INFILTRATION. THESE ADDITIONAL SEAL WELDS SHALL BE SHOWN ON SHOP DRAWINGS.

FIBER-REINFORCED POLYMER NOTES

- SUBMIT PRODUCT DATA FOR FRP PRODUCT. INCLUDE AN ICC REPORT, COMPLIANT WITH IBC 2021.
- PROVIDE A TEST REPORT FOR CLASS 1 FLAME & SMOKE PER ASTM E84.
- PROVIDE INSTALLATION AND MAINTENANCE PROCEDURES FOR EACH PRODUCT RECOMMENDED.
- THE MANUFACTURER SHALL CLEARLY DEFINE THE ADHESIVE RESIN WORKING TIME. ANY BATCH THAT EXCEEDS THE BATCH LIFE SHALL NOT BE USED.
- SURFACE BONDED FRP SHALL BE INSTALLED BY A CERTIFIED APPLICATOR WITH WRITTEN CONSENT FROM A MANUFACTURER THAT THE CONTRACTOR HAS BEEN TRAINED.
- SUBMIT DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE DISTRICT OF COLUMBIA. DESIGN SHALL BE BASED ON PERFORMANCE CRITERIA DEFINED IN THESE DRAWINGS. THE DESIGN OF THE FRP SYSTEM SHALL BE BASED ON PUBLISHED DESIGN VALUES CONSISTENT WITH LONG TERM DURABILITY EXPOSURE TESTING. FRP DESIGN VALUES MUST BE LOWER THAN THE CALCULATED MEAN VALUES DETERMINED FROM THE TEST RESULTS RECEIVED FROM THE ASTM D3039 FIELD TEST SPECIMENS.
- WORKING DRAWINGS SHALL DETAIL TYPE, LOCATION, DIMENSION, NUMBER OF LAYERS, AND ORIENTATION OF ALL FRP MATERIALS AND COATINGS TO BE INSTALLED.
- PRODUCT SHALL COMPLY WITH ASTM D3039.
- PERFORM IN-SITU TESTING PER ASTM D7522 AND/OR ASTM D4541 IN ADDITION TO LABORATORY TESTING.
- PERFORM TENSION TESTS PER ASTM D3039. TEST A MINIMUM OF 15% OF ALL SAMPLES AS PER ICC AC178. IF ONE COUPON FAILS, SPECIMENS FROM THE SAME 12"x12" SAMPLE WILL BE TESTED. IF THESE SPECIMENS ALSO FAIL, THE OTHER 12"x12" SAMPLE FROM THE SAME "SAMPLE BATCH" WILL BE TESTED. IF THIS SAMPLE ALSO FAILS, THE REMAINING "SAMPLE" BATCH FOR THAT DAY WILL BE TESTED AND APPROPRIATE REMEDIATION SHALL BE TAKEN TO ENSURE INTEGRITY OF THE SYSTEM AT LOCATION FROM THE FAILED "SAMPLE BATCH" IN ADDITION, M 25% OF THE REMAINING SAMPLES SHALL BE TESTED BY THE SAME CRITERIA AS PER ICC AC178.
- INJECT OF BACK FILL WITH EPOXY SMALL VOIDS AND BUBBLES LESS THAN 3" IN DIAMETER. VOIDS AND DELAMINATIONS 6" IN DIAMETER OR AN AREA 5'x5' OR GREATER SHALL BE REPORTED TO THE ENGINEER OF RECORD ALONG WITH A REMEDIATION PLAN.
- MAKE GOOD AT NO COST TO THE OWNER, ANY DAMAGE TO THE NEW OR EXISTING STRUCTURES, PROPERTY OR SERVICES CAUSED BY THE INSTALLATION AND TESTING OF THE FRP COMPOSITE.

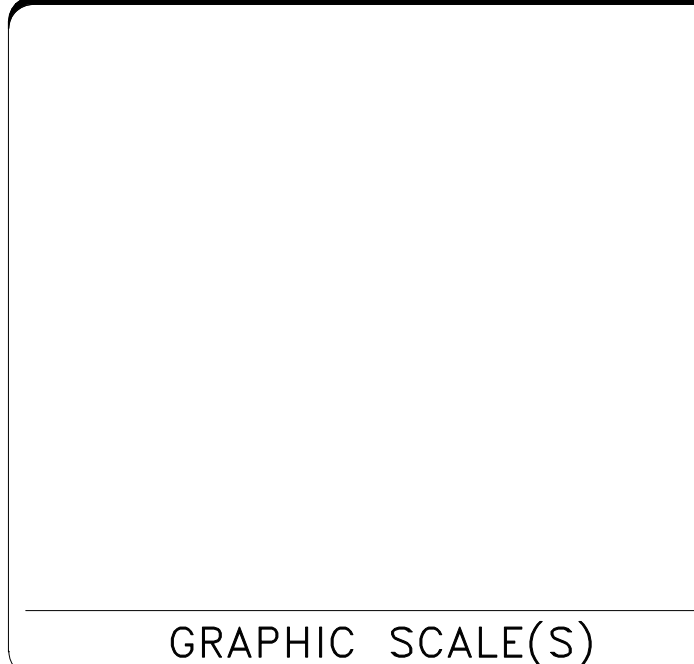
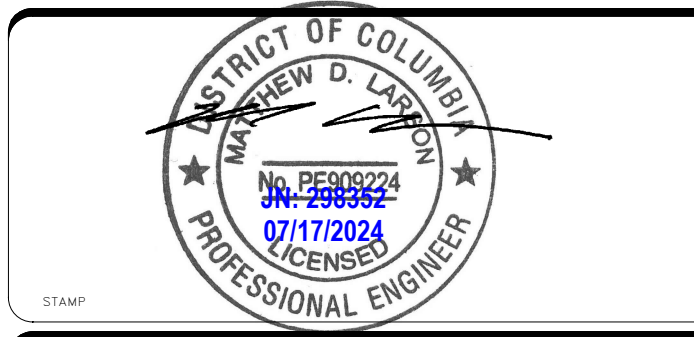
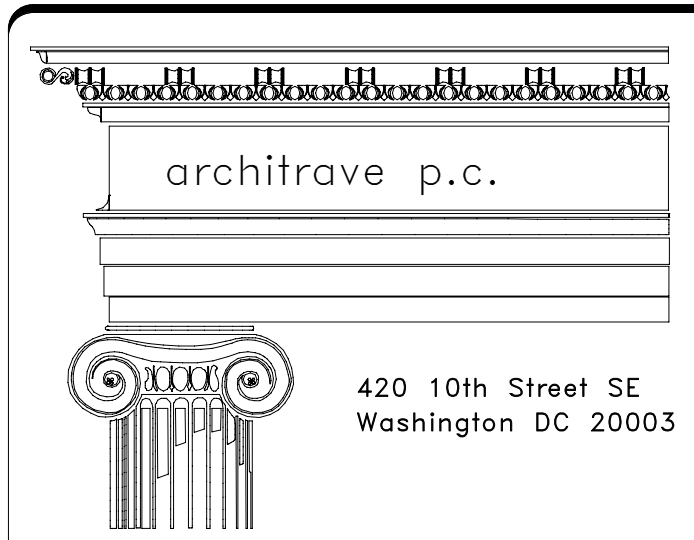
LIGHT-GAUGE METAL

- DESIGN LOADS PER GENERAL NOTES SHOWN ON STRUCTURAL DRAWINGS. MAXIMUM DEFLECTION OF L360 TYPICAL STEEL STUDS AND TRACKS SHALL BE BY A CURRENT MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) AND SHALL CONFORM TO:
 - A. FOR 16 GAUGE AND HEAVIER: ASTM A568/A568M OR ASTM A570/A570M, HOT DIPPED GALVANIZED WITH G-60 COATING IN ACCORDANCE WITH ASTM A653/A653M, WITH MINIMUM YIELD STRENGTH OF 50KSI
- THE SECTION DESIGNATIONS THAT ARE USED TO CALL OUT METAL STUD MEMBERS ARE PER ICC REPORT DEVELOPED BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). THE MINIMUM SECTION PROPERTIES OF METAL STUD SECTIONS SHALL BE IN ACCORDANCE WITH THIS ICC REPORT. USE THE FOLLOWING EXTERIOR METAL STUDS UNLESS OTHERWISE NOTED ON DRAWINGS:
 - A. STUDS: 6" S-SECTIONS WITH MINIMUM GAUGE OF 18 GA (0.0428") AND MINIMUM FLANGE WIDTH OF 1'-58". MINIMUM SPACING OF 16" OC (SSMA DESIGNATION 60S162-XX). FACTORY PUNCH-OUTS IN STUDS SHALL BE IN ACCORDANCE WITH THE ICC REPORT INCLUDING THE SIZE, SPACING, AND LOCATION WITH RESPECT TO THE END OF MEMBER. USE HEAVIER STUDS WHERE REQUIRED BY DESIGN.
 - B. SHEET METAL SCREWS (SMS): SELF-DRILLING, FLAT PAN HEAD SCREWS. MINIMUM SCREW SPACING AND EDGE DISTANCES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND THE ICC REPORT BUT NOT LESS THAN 3 DIAMETERS. EXPOSED THREADS ON SCREW TYPE CONNECTIONS SHOULD EXTEND A MINIMUM OF 3 THREADS. SMS SHALL BE ITW BULDEX'S "HI-LO AND S-12 FASTENERS"; THE RAWLPLUG CO., INC.'S "RAWL SELF-DRILLING SCREWS"; UNITED STATES GYPSUM CO.'S "USG SCREWS; TYPE S-12 PAN HEAD"; OR APPROVED EQUAL. SMS SHALL HAVE SHALL HAVE A CURRENT ICC REPORT.
- POWDER-DRIVEN FASTENER (PDF): TEMPERED STEEL PINS SHALL BE DOME HEAD TYPE WITH A 0.145-SHANK DIAMETER WITH A SPECIAL CORROSIVE-RESISTANT PLATING OR COATING. PINS SHALL HAVE GUIDE WASHERS TO ACCURATELY CONTROL THE PENETRATION INTO STRUCTURE. PROVIDE A MINIMUM EMBEDMENT INTO CONCRETE OF 1.5". MINIMUM SPACING AND EDGE DISTANCES OF PINS SHALL BE IN ACCORDANCE WITH THE PDF'S ICC REPORT BUT SHALL NOT BE LESS THAN THE FOLLOWING: IN CONCRETE PROVIDE A MINIMUM SPACING OF 4" AND MINIMUM EDGE DISTANCE OF 3". IN STEEL PROVIDE A MINIMUM SPACING OF 1.5" AND MINIMUM EDGE DISTANCE OF 0.5". INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND THE ICC REPORT. PDF'S SHALL BE HILTI POWDER-ACTUATED FASTENER, OR APPROVED EQUAL. ALL PDF'S SHALL HAVE A CURRENT ICC REPORT.
- WEDGE BOLTS / EXPANSION BOLTS: PER PROJECT GENERAL NOTES OR APPROVED EQUAL. USE DIAMETER AND EMBEDMENT AS INDICATED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. ALL EXPANSION BOLTS SHALL HAVE A CURRENT ICC REPORT.
- EPOXY ANCHORS: PER PROJECT GENERAL NOTES OR APPROVED EQUAL. ANCHOR ROD MATERIAL SHALL BE ASTM A306. USE DIAMETER AND EMBEDMENT AS INDICATED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. ALL EPOXY ANCHORS SHALL HAVE A CURRENT ICC REPORT.
- MACHINE BOLTS (MB): ASTM A307 BOLTS
- LIGHT GAUGE STEEL CONNECTORS CALLED OUT ON THE DRAWINGS REFER TO CONNECTORS BY STEEL NETWORK INC. OR BY SIMPSON STRONG-TIE COMPANY, INC. (ICC). INSTALL CONNECTORS IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS, AND CURRENT ICC REPORT.
- WELDING OF LIGHT GAUGE MATERIAL SHALL BE IN ACCORDANCE WITH AWS D1.3
- ALL FIELD CUTTING OF STUDS MUST BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF COLD-FORMED MEMBERS IS UNACCEPTABLE.
- ALL STUDS SHALL BE ATTACHED BY SCREWS OR WELDS U.N.O WIRE TYING OF FRAMING COMPONENT IS NOT PERMITTED.
- OPENINGS IN STUD WEBS OTHER THAN STANDARD HOLES PUNCHED BY THE MANUFACTURERS ARE PROHIBITED UNLESS SPECIFICALLY DETAILED. OPENINGS OR CUTS IN STUD OR TRACK FLANGES ARE NOT ALLOWED.
- WHEN PUNCHED HOLES IN STUDS ARE PRESENT LOCATE SCREWS SUCH THAT MINIMUM OF 1.5 DIAMETERS FROM SCREW TO PUNCHOUT IS PROVIDED.
- SCREW SHALL HAVE A VALID ICC REPORT.

SCREW THREADS SHALL TAP INTO AND SHALL ENGAGE THE ENTIRE THICKNESS OF ALL PIECES BEING JOINED, AND NOT LESS THAN THREE COMPLETE THREADS SHALL PENETRATE BEYOND THE METAL JOINED. SELF-DRILLING SCREWS MAY BE USED PROVIDED THE DRILL POINT IS SIZED SO DRILLING IS COMPLETED BEFORE THE LEAD THREADS OF THE SCREW BEGIN ENGAGING METAL. WHERE THE DRAWINGS CALL FOR A SCREW SIZE THAT DOES NOT HAVE A DRILL POINT OF SUFFICIENT LENGTH, INCREASE THE SCREW SIZE TO COMPLY WITH THESE REQUIREMENTS. PRE-DRILLED HOLE DIAMETERS SHALL NOT EXCEED THE DIAMETER OF THE DRILL POINT FOR ANY SELF DRILLING SCREWS PROPOSED. OVER-SIZED PRE-DRILLED HOLES ARE NOT PERMITTED. THE DISTANCE BETWEEN FASTENERS SHALL NOT BE LESS THAN 3 DIAMETERS. THE DISTANCE FROM CENTER OF FASTENER TO THE EDGE OF ANY PART SHALL NOT BE LESS THAN 1.5 DIAMETERS.

- ALL STEEL STUDS AND TRACKS SHALL BE MANUFACTURED BY A STEEL STUD MANUFACTURER ASSOCIATION (SSMA) MEMBER, A CERTIFIED STEEL STUD ASSOCIATION (CSSA) MEMBER, OR A STEEL FRAMING INDUSTRY ASSOCIATION (SFI) MEMBER, UNLESS NOTED OTHERWISE. THE STEEL STUDS AND TRACKS SHALL ALSO CONFORM TO THE 2012 NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS.

STRUCTURAL SHEET LIST	
SHEET NUMBER	SHEET NAME
S-001	STRUCTURAL GENERAL NOTES
S-002	STRUCTURAL GENERAL NOTES
S-100	STRUCTURAL B2 LEVEL FLOOR PLAN
S-101	STRUCTURAL B1 AND MEZZANINE LEVEL FLOOR PLAN
S-102	STRUCTURAL PAVILION LEVEL FLOOR PLAN
S-401	STRUCTURAL COATROOM 0015 ENLARGED PLAN AND DETAILS
S-501	STRUCTURAL DETAILS



DATE	REVISION
07/18/24	Final Construction Documents



PROJECT NAME	NMAA	
ADDRESS	12th and Independence Avenue, SW, Washington DC	
PROJECT TITLE	Cafe at Sackler Pavilion	
SF PROJECT NUMBER	2209110	
A/E PROJECT NUMBER	F13CC10197	
DRAWING TITLE	STRUCTURAL GENERAL NOTES	
WORKING STAFF	AH AH ET	
DESIGNED BY	DRAWN BY	CHECKED BY
SHEET NO.	S - 0 0 1	
2 of 103	DISCIPLINE	TYPE SEQUENCE DRAWING TYPE

SPECIAL INSPECTIONS

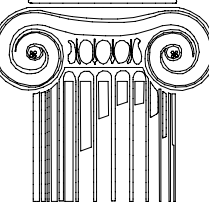
1. SPECIAL INSPECTIONS SHALL BE PROVIDED BY SI'S INDEPENDENT TESTING AGENCY IN ACCORDANCE WITH THE PROJECT CODE, ALL APPLICABLE LOCAL ORDINANCES AND THE PROJECT SPECIFICATIONS.
2. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.
3. THIS WORK IS TO BE PERFORMED BY A SPECIAL INSPECTOR WHO IS CERTIFIED BY THE BUILDING OFFICIAL TO PERFORM THE SPECIFIED TYPES OF INSPECTIONS AND TESTS.
4. THE SPECIAL INSPECTOR SHALL SEND REPORTS TO THE BUILDING OFFICIAL, INSPECTOR OF RECORD, ARCHITECT, ENGINEER, CONTRACTOR AND OWNER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
5. WHEN WORK IS DONE TO THE SATISFACTION OF THE INSPECTOR AND BUILDING OFFICIAL, THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING THAT, TO THE BEST OF THEIR KNOWLEDGE, THE WORK WAS COMPLETED IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODES.
6. FOR THIS PROJECT SPECIAL INSPECTION OF THE FOLLOWING STRUCTURAL RELATED CONSTRUCTION ACTIVITIES IS REQUIRED.
 - A. PENETRATIONS ON EXISTING STRUCTURAL REINFORCED CONCRETE MEMBERS AND STRENGTHENING MEASURES, IF ANY.
 - B. STRUCTURAL STEEL (INCLUDING DETAILS AND FIELD/SHOW WELDING)

REQUIRED INSPECTIONS AND TESTS OF STRUCTURAL STEEL CONSTRUCTION			
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:			
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	-	X	
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	-	X	
2. INSPECTION OF HIGH-STRENGTH BOLTING:			
A. SNUG-TIGHT JOINTS	-	X	
B. PRE-TENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION	-	X	
C. PRE-TENSIONED AND SLIP-CRITICAL JOINTS USING TORN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION	X	-	
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD FORMED STEEL DECK:			
A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	-	X	
B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	-	X	
C. MANUFACTURER'S CERTIFIED MILL TEST REPORTS	-	X	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:			
A. IDENTIFICATION OF MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	-	-	
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	-	-	
5. INSPECTION OF WELDING FOR STRUCTURAL STEEL, COLD-FORMED STEEL, AND COLD-FORMED STEEL DECK:			
A. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	X	-	
B. MULTI-PASS FILLET WELDS	X	-	
C. SINGLE-PASS FILLET WELDS > 5/16"	X	-	
D. PLUG AND SLOT WELDS	X	-	
E. SINGLE-PASS FILLET WELDS ≤ 5/16"	-	X	
F. FLOOR AND ROOF DECK WELDS	-	X	
G. COLD-FORMED STEEL WELDS	-	X	
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:			
A. DETAILS SUCH AS BRACING AND STIFFENING	-	X	
B. MEMBER LOCATIONS	-	X	
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	-	X	
D. FLOOR AND ROOF DECK LAPS	-	X	

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT				
2. REINFORCING BAR WELDING:				
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706;	-	-	-	-
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND	-	-	-	-
C. INSPECT ALL OTHER WELDS	-	-	-	-
3. INSPECT ANCHORS CAST IN CONCRETE				
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:				
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	-	ACI 318: 17.8.2.4	-
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4A	-	X	ACI 318: 17.8.2	-
5. VERIFY USE OF REQUIRED DESIGN MIX				
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE				
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES				
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES				
9. INSPECT PRESTRESSED CONCRETE FOR:				
A. APPLICATION OF PRESTRESSING FORCES; AND	-	-	-	-
B. GROUTING OF BONDED PRESTRESSING TENDONS	-	-	-	-
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.				
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAM AND STRUCTURAL SLABS				
12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED				

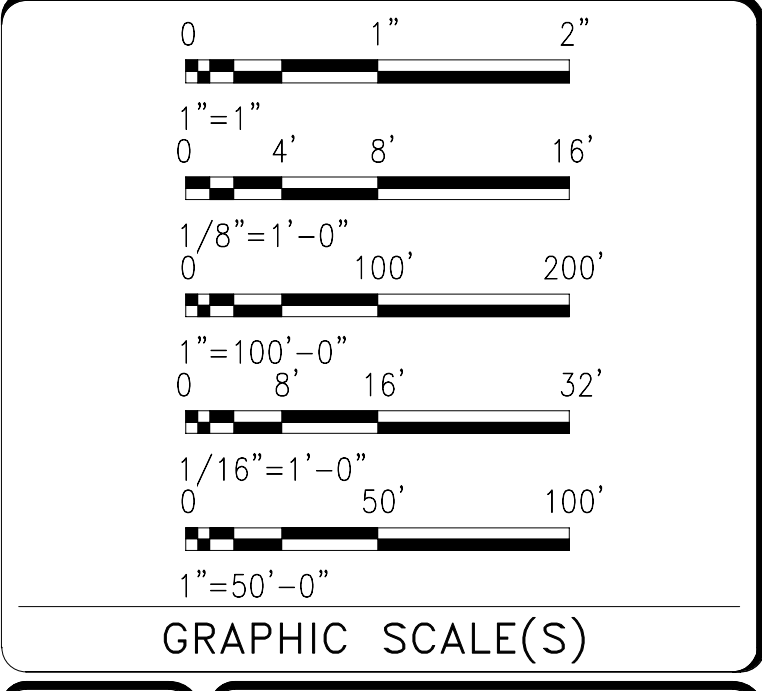
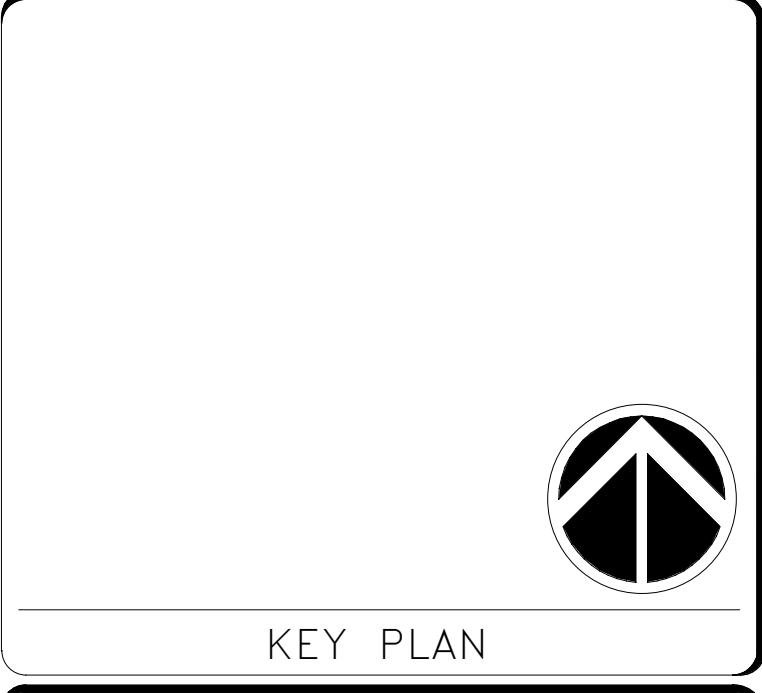
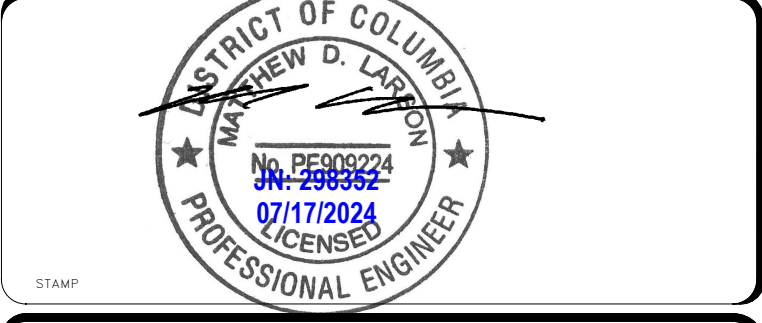
DRAWING ABBREVIATIONS	
SYMBOL	DESCRIPTION
CFRP	CARBON-FIBER REINFORCED POLYMER
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE
E	EXISTING
GPR	GROUND PENETRATION RADAR
L	LENGTH
MISC	MISCELLANEOUS
PL	PLATE
REF	REFERENCE
SI	SMITHSONIAN INSTITUTION
TYP	TYPICAL
W	WIDTH

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420 10th Street SE
Washington DC 20003

NOT FOR CONSTRUCTION



DATE	REVISION	
07/18/24	Final Construction Documents	
REVISION #	DATE	REVISION DESCRIPTION
1	06/24/24	ISSUE CONSTRUCTION DOCUMENTS
2	07/18/24	FINAL CONSTRUCTION DOCUMENTS



Smithsonian Institution

Smithsonian Facilities
600 Maryland Avenue S.W., Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA												
ADDRESS	12th and Independence Avenue, SW, Washington DC												
PROJECT TITLE	Cafe at Sackler Pavilion												
SF PROJECT NUMBER	2209110												
A/E PROJECT NUMBER	F13CC 10197												
DRAWING TITLE	STRUCTURAL GENERAL NOTES												
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>AH</td> <td>AH</td> <td>ET</td> </tr> <tr> <td>DRAWN BY</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> <td></td> <td></td> </tr> </table>	DESIGNED BY	AH	AH	ET	DRAWN BY				CHECKED BY			
DESIGNED BY	AH	AH	ET										
DRAWN BY													
CHECKED BY													

SHEET NO. 3 of 103

S - 0 0 2

DISCIPLINE TYPE SEQUENCE DRAWING TYPE

LEGEND	
SYMBOL	DESCRIPTION
	FLOOR DEMOLITION

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420 10th Street SE
Washington DC 20003

DISTRICT OF COLUMBIA
NEW D. LAYTON
No. PE000224
07/17/2024
LICENSED
PROFESSIONAL ENGINEER

KEY PLAN

0 2' 4' 8'
1/4" = 1'-0"

GRAPHIC SCALE(S)

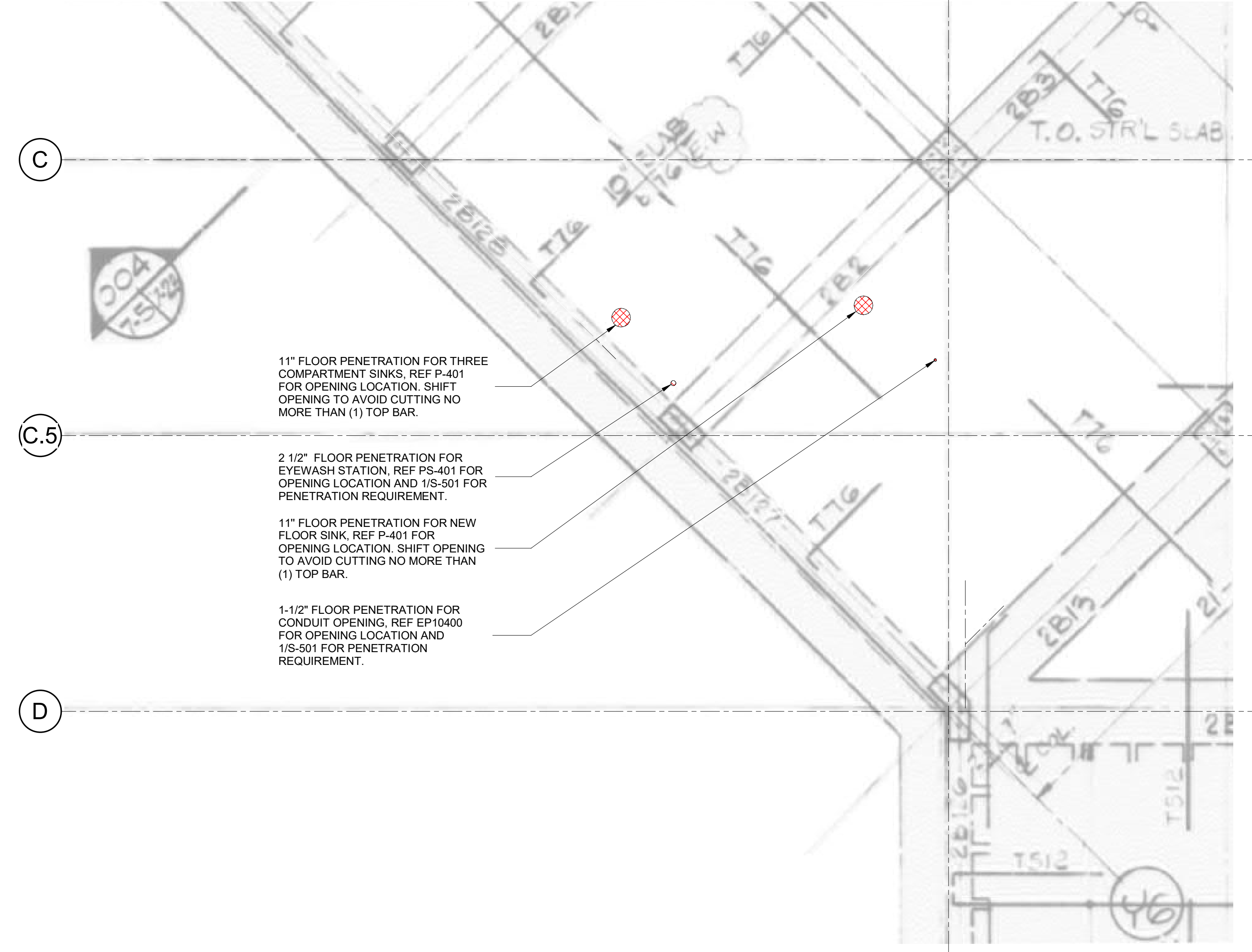
DATE 07/18/24	REVISION Final Construction Documents
REVISION # DATE	REVISION DESCRIPTION

Smithsonian Institution

Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

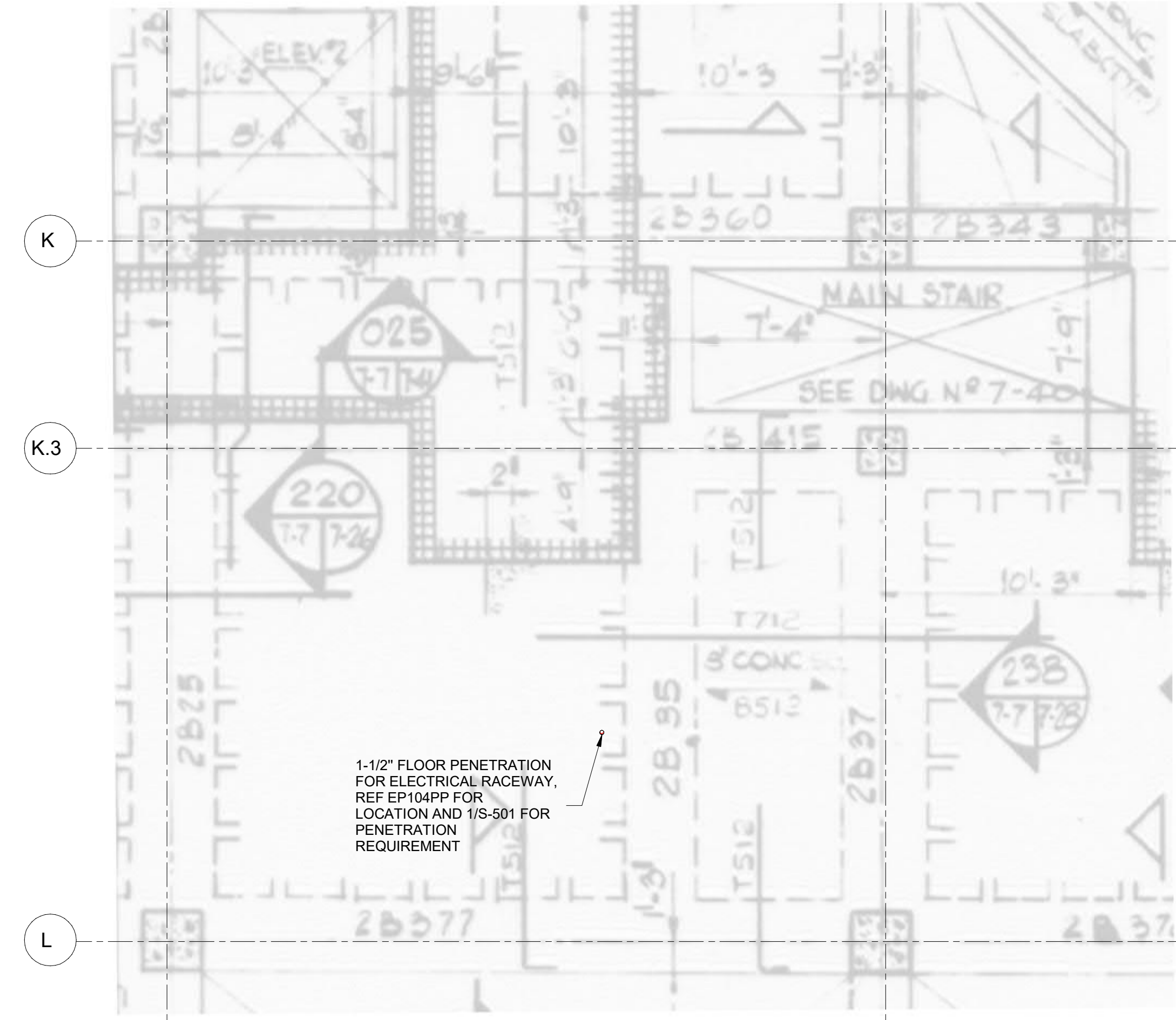
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ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	Cafe at Sackler Pavilion
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	F13CC10197
DRAWING TITLE	STRUCTURAL B2 LEVEL FLOOR PLAN
WORKING STAFF	AH AH ET
DESIGNED BY	DRAWN BY
CHECKED BY	

SHEET NO.	S-100
4 of 103	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

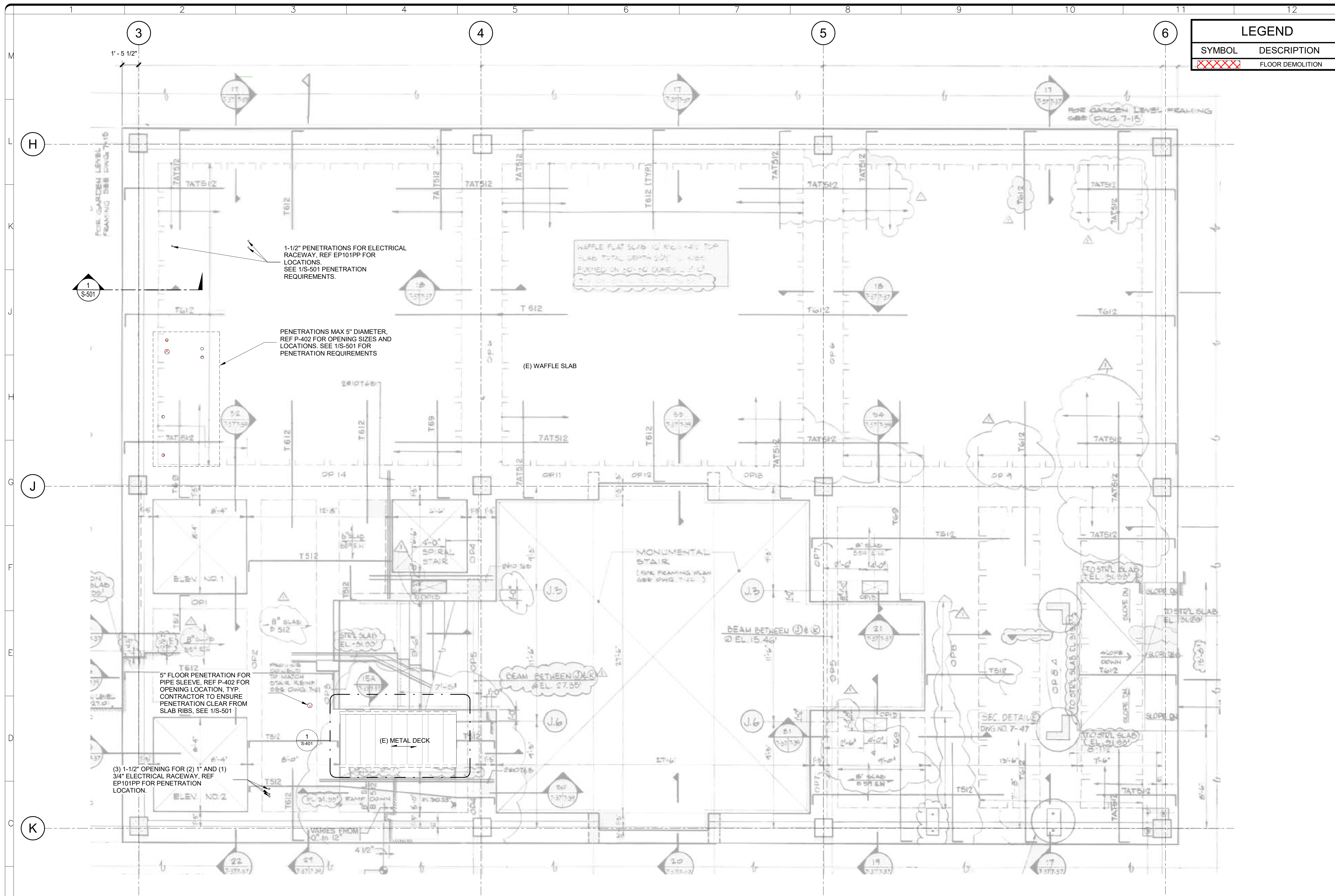


1 B2 LEVEL - KITCHEN 2020
1/4" = 1'-0"

NOTES:
1. BACKGROUND DRAWING REFERENCE: SMITHSONIAN/SOUTH QUADRANGLE BUILDING 7-5A SECOND BASEMENT - 1 AND 7-7 SECOND BASEMENT - 3, DATED 07/13/83.
2. ALL PENETRATIONS SHALL CLEAR THE (E) BEAM NEARBY. CONTRACTOR SHALL PERFORM GPR SCANS AT ALL PENETRATIONS PRIOR TO ANY PENETRATION WORK. SEE DETAIL 1/S-501 AND 2/S-501 FOR ACCEPTABLE PENETRATION REQUIREMENTS.

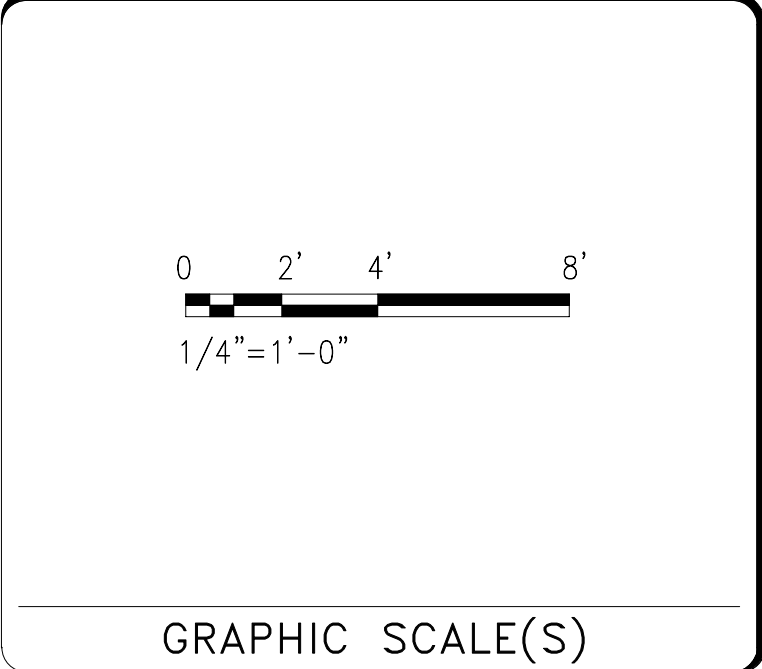
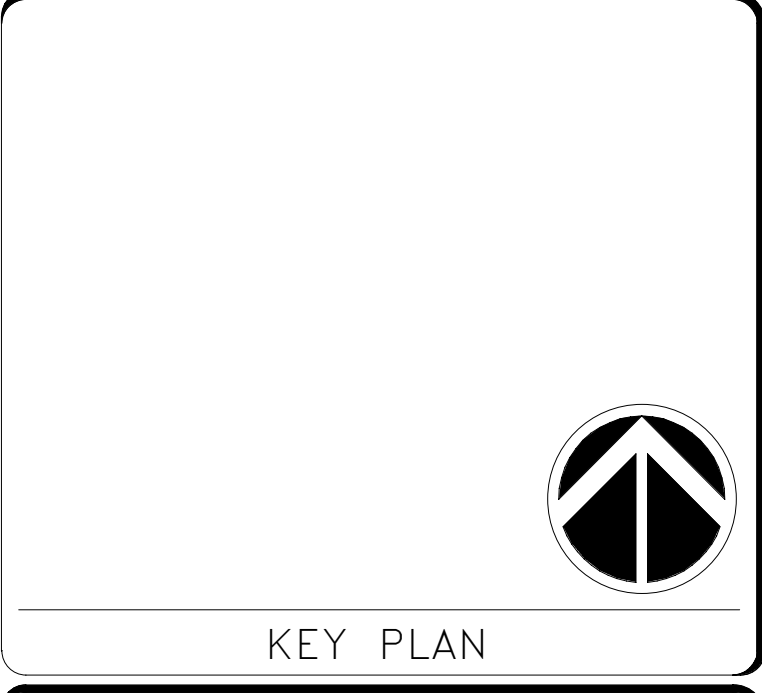
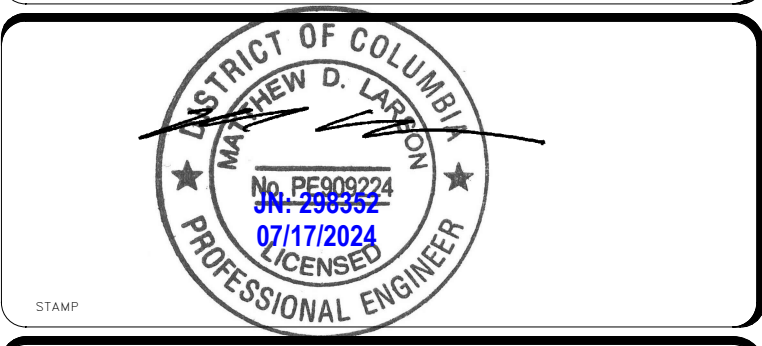


2 B2 LEVEL - CASHROOM 2087A
1/4" = 1'-0"



LEGEND	
SYMBOL	DESCRIPTION
	FLOOR DEMOLITION

architrave p.c.
 420 10th Street SE
 Washington DC 20003



DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	DESCRIPTION	

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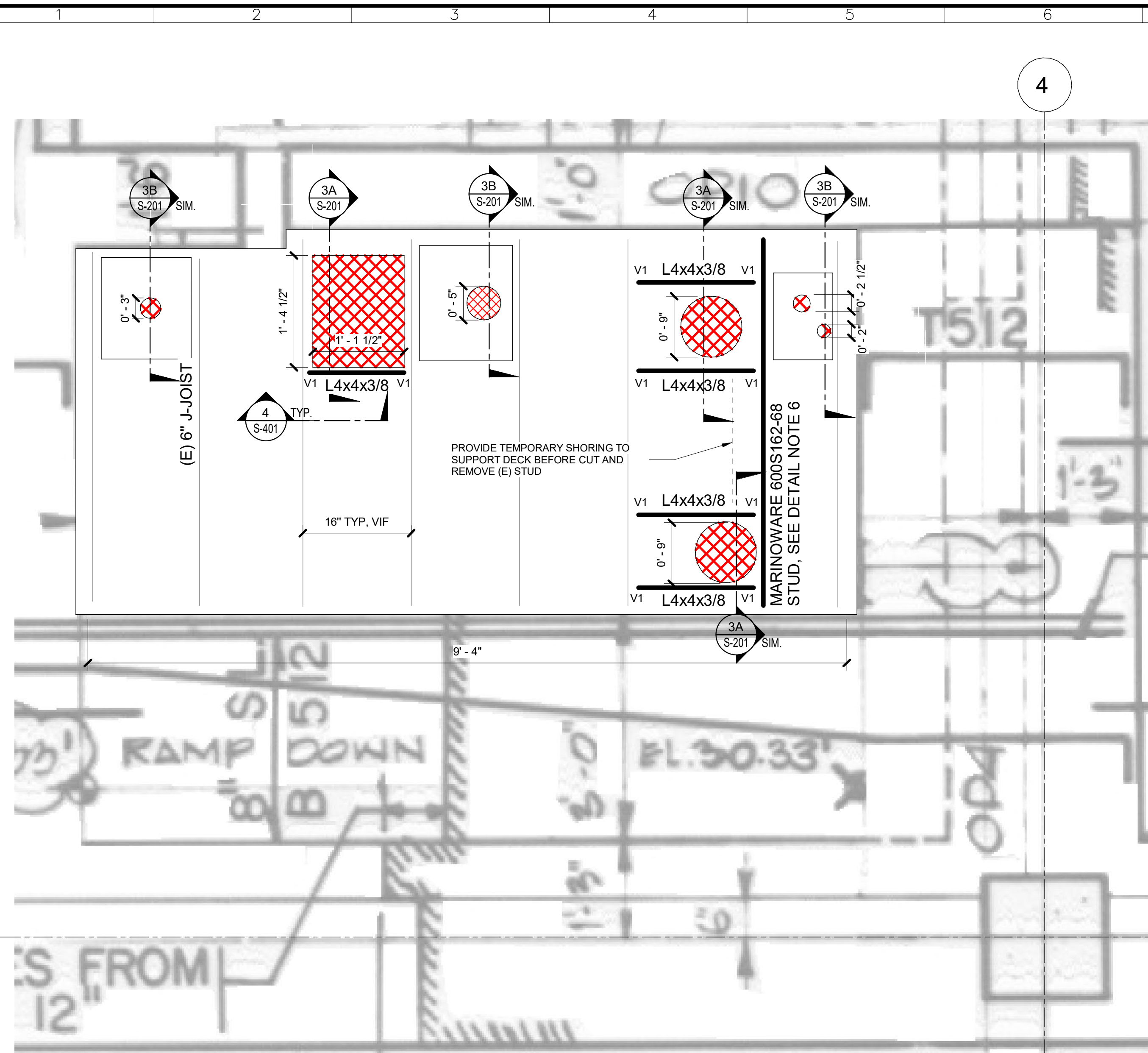
BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	Cafe at Sackler Pavilion
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	F13CC10197
DRAWING TITLE	STRUCTURAL PAVILION LEVEL FLOOR PLAN
WORKING STAFF	AH AH ET
DESIGNED BY	DRAWN BY
CHECKED BY	

SHEET NO.	S-102
6 of 103	

1 GROUND LEVEL - SACKLER PAVILION
 1/4" = 1'-0"

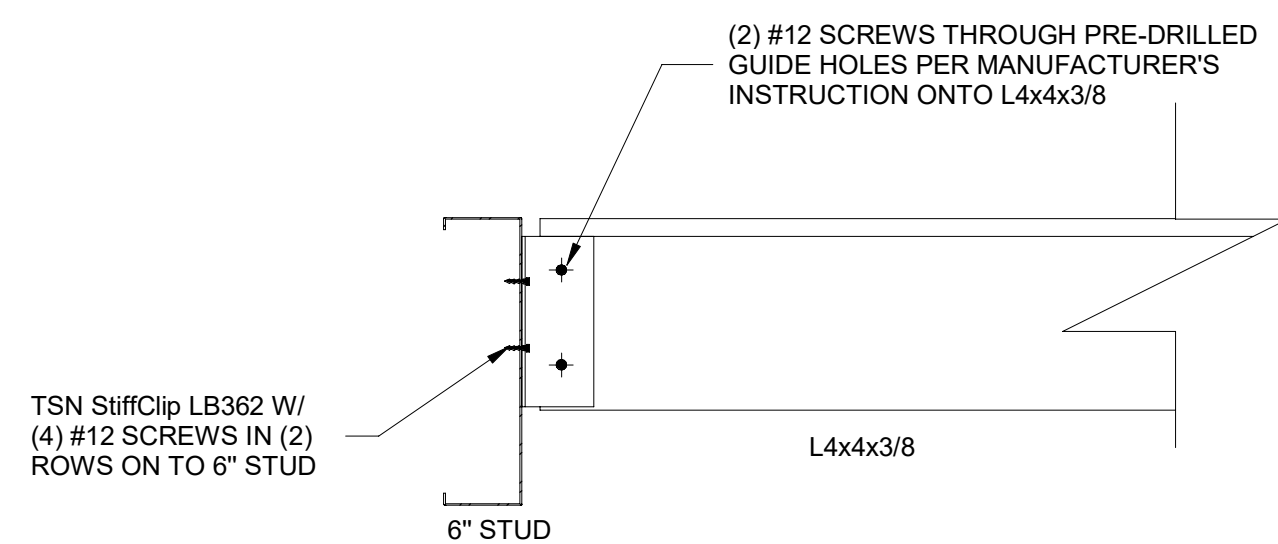
- NOTES:
- BACKGROUND DRAWING REFERENCE: SMITHSONIAN/SOUTH QUADRANGLE BUILDING 7-37A ORIENTAL PAVILION - 1, DATED 07/13/83.
 - ALL PENETRATIONS SHALL CLEAR THE (E) BEAM NEARBY. CONTRACTOR SHALL PERFORM GPR SCANS AT ALL PENETRATIONS PRIOR TO ANY PENETRATION WORK. SEE DETAIL 1/S-501 AND 2/S-501 FOR ACCEPTABLE PENETRATION REQUIREMENTS.

7/17/2024 2:29:28 PM S-102 BY Approver Final Construction Documents

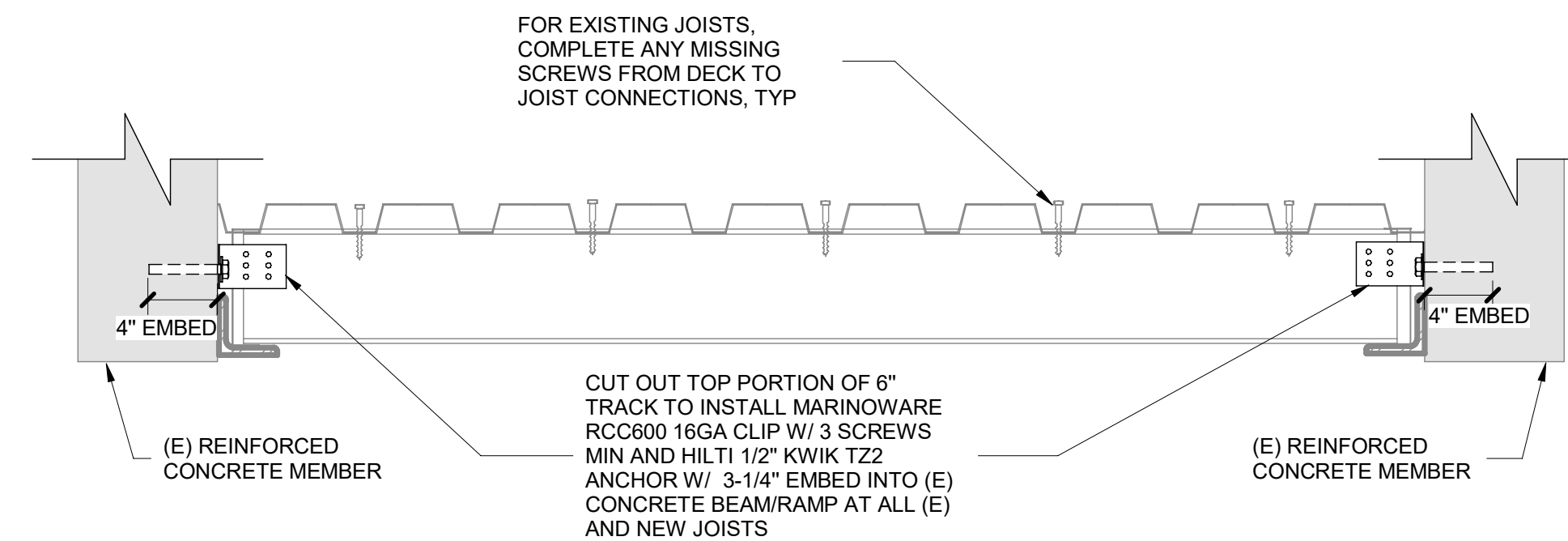


- NOTE:
1. ANY CLUSTERED OPENINGS LESS THAN 4" CLEAR DISTANCE ARE CONSIDERED AS ONE LARGE OPENING AND THE REINFORCING SCHEME CHOSEN SHOULD BE BASED ON THAT LARGE SIZE.
 2. NO REINFORCING REQUIRED FOR PENETRATION WHERE DIM IS 2" OR LESS IN THE DIRECTION PERPENDICULAR TO THE DECK SPAN & MIN 6" CLEAR TO ADJACENT UNREINFORCED OPENINGS OR CONCRETE EDGE OR DECK EDGES.
 3. IF (E) JOIST INTERFERE WITH OPENING, CONTRACTOR TO SUBMIT OPENING LAYOUT WITH ACCURATELY DIMENSIONED OPENING LOCATION RELATIVE TO (E) JOIST, (E) FIELD VERIFIED JOIST SIZE AND DIMENSION, CUT JOIST TO OTHER (E) JOIST SPACING, DECK LAYOUT AT THE OPENING LOCATION, AND CLOSEST ADJACENT FLUTES ON EACH SIDE OF OPENING OR TO COTR FOR REVIEW.
 4. INSTALL REINFORCING PRIOR TO CUTTING OPENINGS WHEREVER FEASIBLE.
 5. CONTRACTOR SHALL REFER TO MEP DRAWING FOR ALL OPENING LOCATIONS.
 6. V1 = 0.5 KIPS (SERVICE LOAD).
 7. CONTRACTOR'S OPTION TO SUBSTITUTE EQUIVALENT PRODUCT AND SUBMIT TO COTR FOR REVIEW.

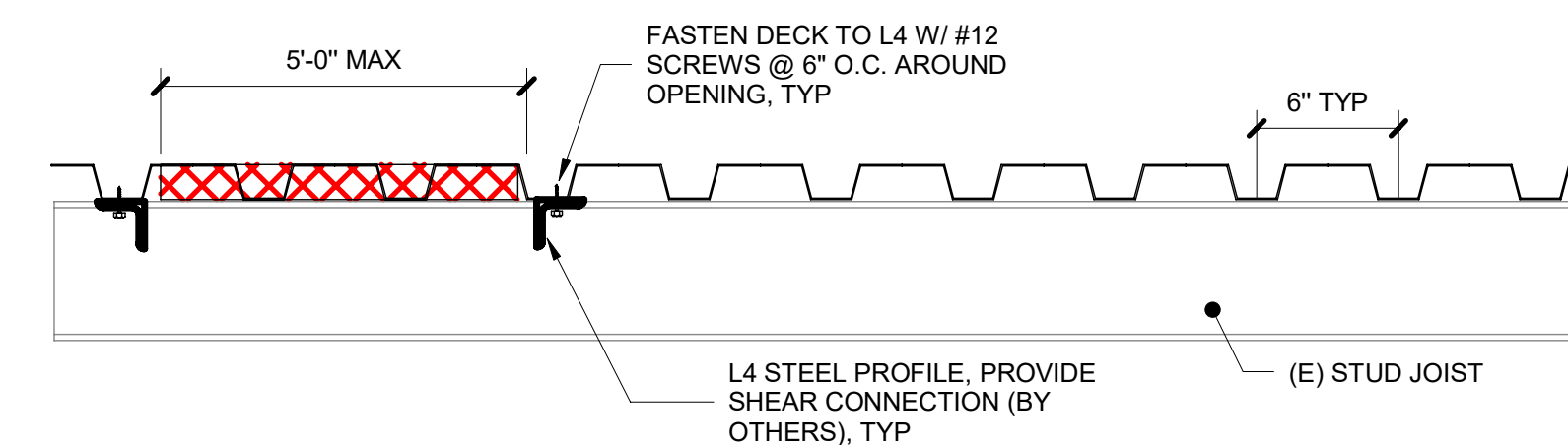
1 ENLARGED EXISTING INFILLED DECK AREA
1" = 1'-0"



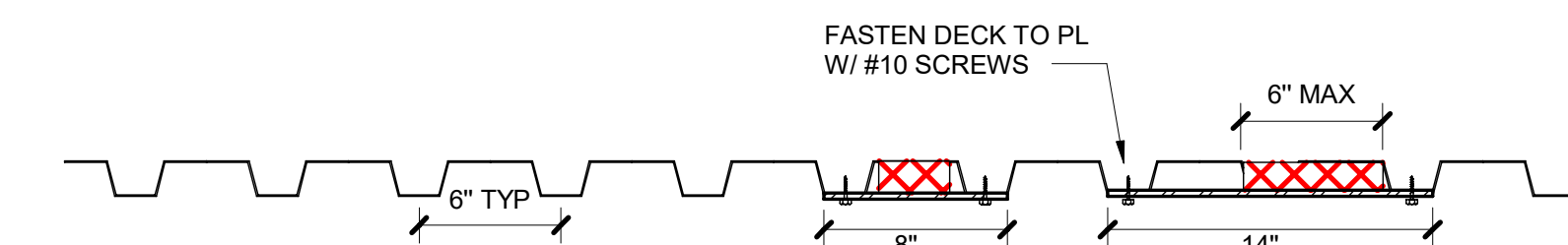
4 TYPICAL ANGLE TO STUD SHEAR CONNECTION
3" = 1'-0"



2 TYPICAL DECK JOIST CONNECTION REINFORCEMENT
NTS



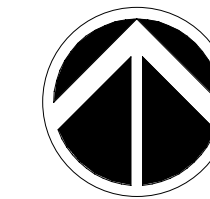
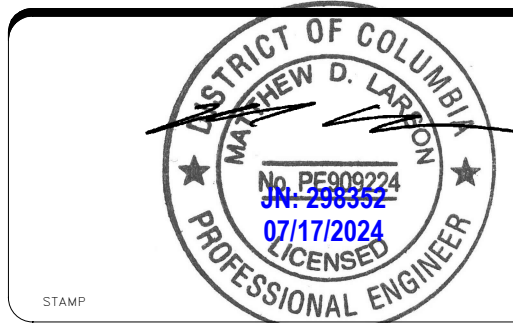
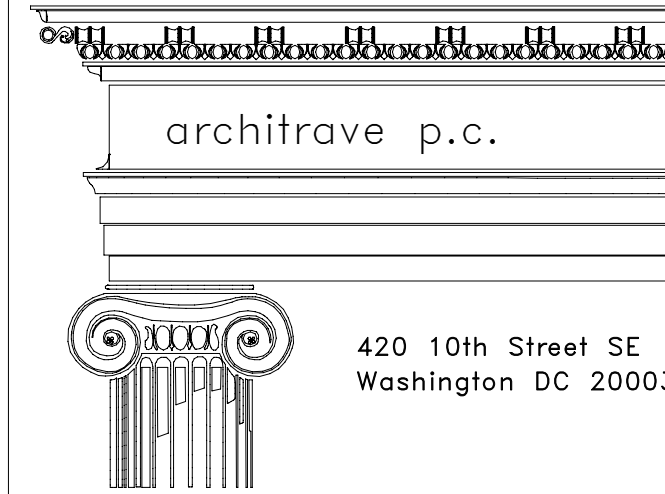
3A LARGE DECK OPENING (GREATER THAN 10" X 10") (a)
NTS



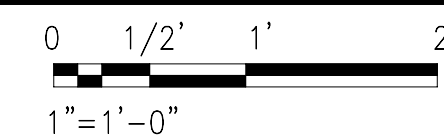
- NOTE:
1. ANY OPENINGS LESS THAN OR EQUAL TO 3" SHALL MISS THE DECK FLUTES.
 2. PROVIDE PLATES WITH 1 SCREW THROUGH ADJACENT FLUTE ON EACH SIDE OF OPENING FOR OPENINGS LARGER THAN 3" BUT LESS THAN 6".

3B SMALL DECK OPENING (LESS THAN OR EQUAL TO 6" X 6") (b)
NTS

LEGEND	
SYMBOL	DESCRIPTION
	FLOOR DEMOLITION

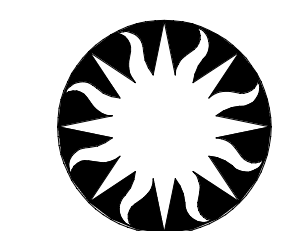


KEY PLAN



GRAPHIC SCALE(S)

DATE 07/18/24	REVISION
REVISION # DATE	REVISION DESCRIPTION



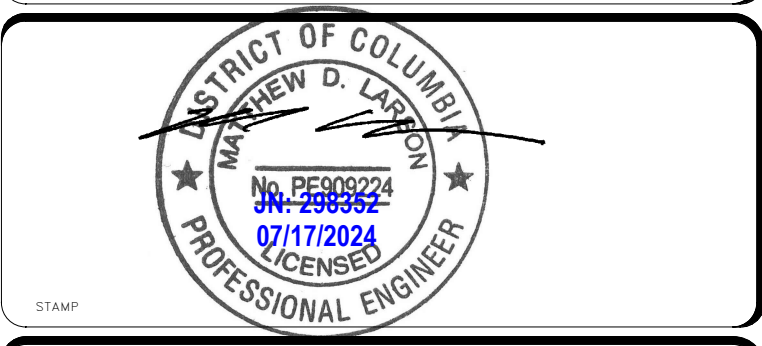
Smithsonian Institution

Smithsonian Facilities
600 Maryland Avenue S.W., Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	Cafe at Sackler Pavilion
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	F13CC10197
DRAWING TITLE	STRUCTURAL COATROOM 0015 ENLARGED PLAN AND DETAILS
WORKING STAFF	AH AH ET
DESIGNED BY	DRAWN BY
CHECKED BY	
SHEET NO.	S-401
7 of 103	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

LEGEND	
SYMBOL	DESCRIPTION
XXXXXX	FLOOR DEMOLITION

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 420 10th Street SE
 Washington DC 20003



KEY PLAN

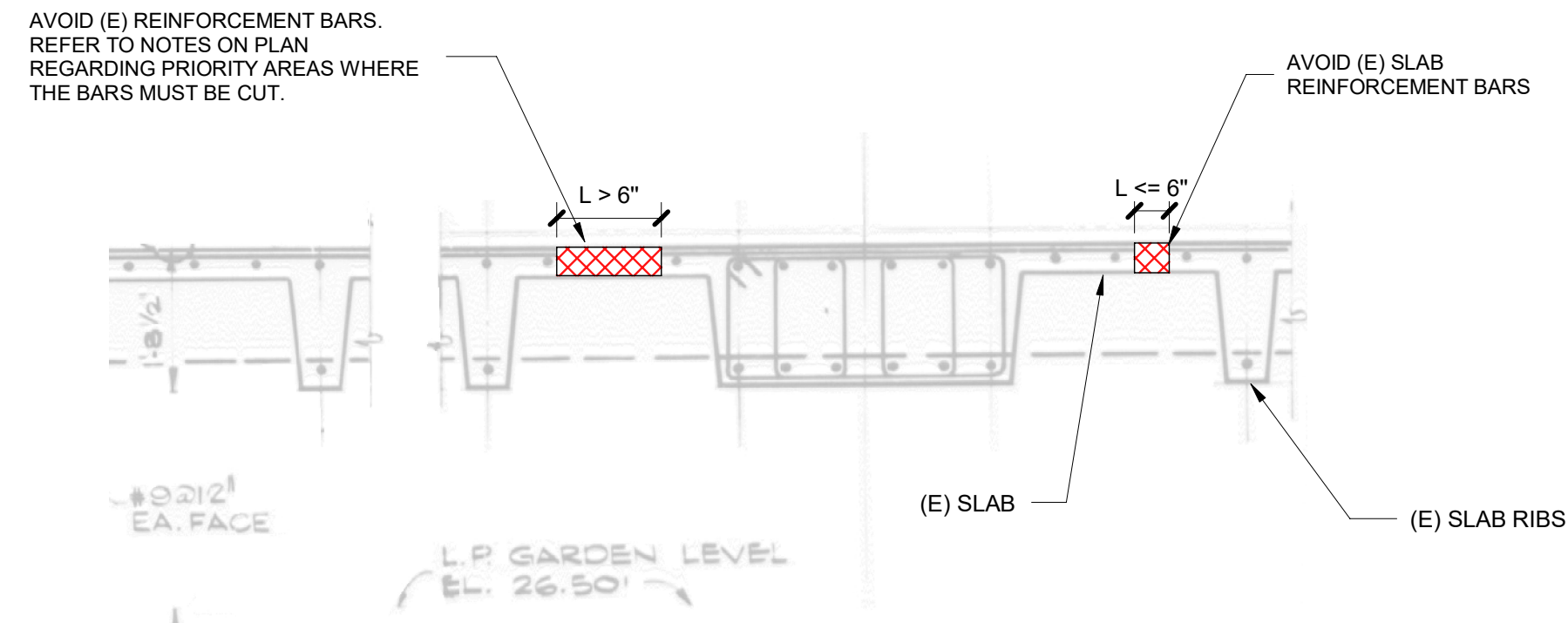
GRAPHIC SCALE(S)

DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	REVISION DESCRIPTION	

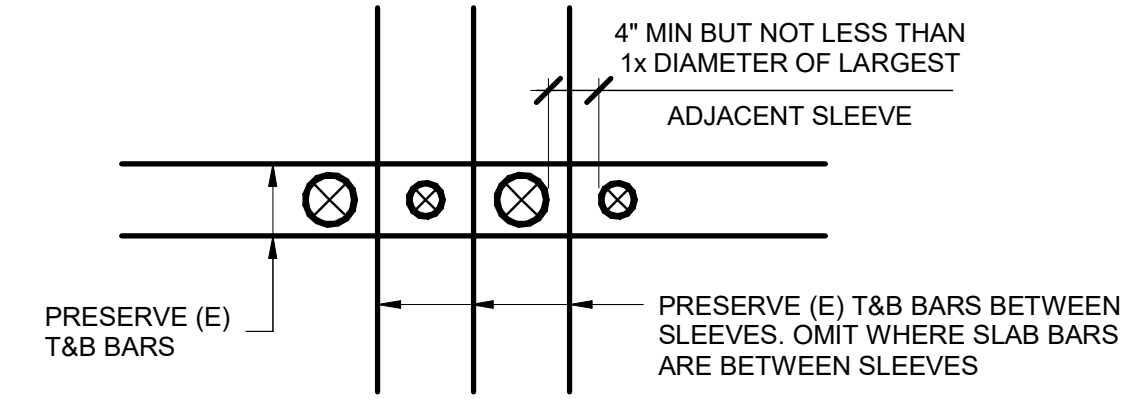
Smithsonian Institution
 Smithsonian Facilities
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	NMAA												
ADDRESS	12th and Independence Avenue, SW, Washington DC												
PROJECT TITLE	Cafe at Sackler Pavilion												
SF PROJECT NUMBER	2209110												
A/E PROJECT NUMBER	F13CC10197												
DRAWING TITLE	STRUCTURAL DETAILS												
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>AH</td> <td>AH</td> <td>ET</td> </tr> <tr> <td>DRAWN BY</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> <td></td> <td></td> </tr> </table>	DESIGNED BY	AH	AH	ET	DRAWN BY				CHECKED BY			
DESIGNED BY	AH	AH	ET										
DRAWN BY													
CHECKED BY													

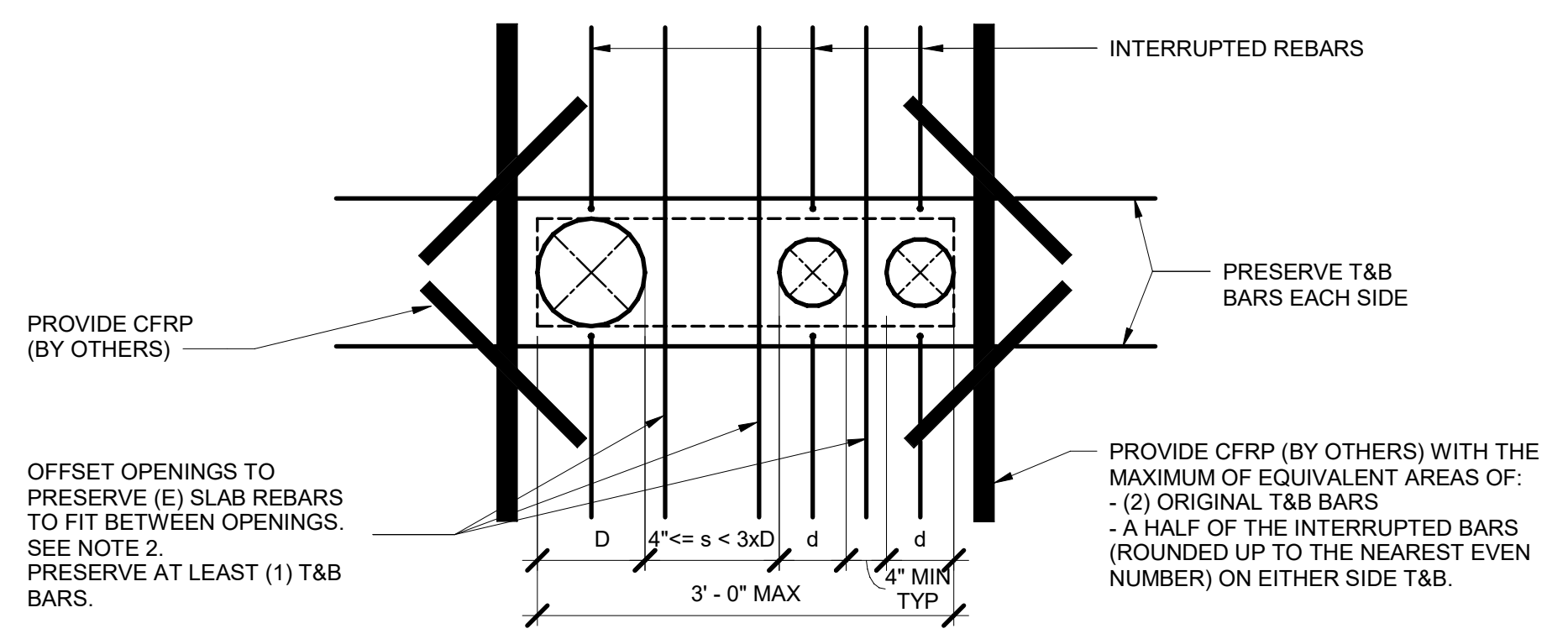
SHEET NO.	S-501
8 of 103	



3 TYPICAL PENETRATION LOCATIONS FOR EXISITNG RIBBED SLAB
 NTS



1 OPNGS ≤ 6" DIA AND WITH SPACING LARGER THAN 1x DIA AND 4"
 NTS



2 OPNGS ≤ 6" WITH SPACING LESS THAN 1x DIA OR 4"
 NTS

- NOTE:
- SEE SIZES AND LOCATIONS OF PENETRATIONS IN PLANS.
 - ALL PENETRATIONS SHALL CLEAR THE RIB OF THE SLAB AND CLEAR FROM ANY BEAM.
 - CONTRACTOR SHALL PERFORM GPR SCANS AT ALL PROPOSED PENETRATION LOCATIONS PRIOR TO ANY PENETRATION WORK AND REVIEW GPR SCAN RESULTS AND SHIFT THE OPENINGS PER 1/S-501 AS REQUIRED.
 - ANY PENETRATION THAT DOES NOT SATISFY THE REQUIRED CLEAR DISTANCE PER 1/S-501 SHALL BE CONSIDERED AS ONE LARGE OPENING.
 - WHERE INSTRUCTIONS AND REQUIREMENTS IN PLAN DRAWINGS AND DETAIL 1/S-501 ARE NOT APPLICABLE, CONTRACTOR'S OPTION TO SUBMIT GPR SCANS VIA RFI PER REQUIRED OR PROVIDE CFRP REINFORCEMENT (BY OTHERS) WITH EQUIVALENT TRIM REBAR AROUND LARGE OPENINGS PER 2/S-501. ANY SUBMITTED GPR SCAN RESULT VIA RFI SHALL INCLUDE A PROPOSED PENETRATION LOCATION SHIFT WITH GPR SCAN RESULTS OF IDENTIFIED AND LOCATED TOP OR BOTTOM REBARS, DIMENSIONED OPENINGS FROM GRID, DESIRED PENETRATION(S) SIZE AND LAYOUT, EXISTING ADJACENT PENETRATION SIZES AND LAYOUT, WAFFLE RIB OR BEAM LOCATION LAYOUT IF NEARBY IN THE SUBMISSION TO COTR FOR REVIEW.
 - SEE CONCRETE GENERAL NOTES FOR MINIMUM COVER OF 3/4" FOR INTERIOR AND 1-1/2" FOR EXTERIOR AND OTHER DETAILING REQUIREMENTS.
 - CONTRACTOR SHALL COORDINATE OPENING SIZES & LOCATION WITH COTR. SHOW ALL OPENINGS IN SHOP DRAWINGS.
 - BACKGROUND DRAWING REFERENCE: SMITHSONIAN/SOUTH QUADRANGLE BUILDING 7-37A ORIENTAL PAVILION -1, DATED 07/13/83.

DRAWING ABBREVIATIONS

A	CLASS A DOOR	S	SCHEDULE	ARCHITECTURAL/INTERIORS
A/E	ARCHITECT/ENGINEER	SCHED	SCHEDULE	EP - ENLARGED PLAN
ACS DR	ACCESS DOOR	SF	SQUARE FOOT (FEET)	CP - CEILING PLAN
ACS PNL	ACCESS PANEL	SI	SMITHSONIAN INSTITUTION	RP - FURNITURE PLAN
ACT	ACOUSTICAL CEILING TILE	SIM	SIMILAR	NP - FINISH PLANS
ADA	AMERICANS WITH DISABILITIES ACT	SPEC	SPECIFICATION	CIVIL
AFF	ABOVE FINISHED FLOOR	ST	STAIRS	EP - ENVIRONMENTAL PLAN
B	CLASS B DOOR	STOR	STORAGE	GP - GRADING PLAN
BD	BOARD	SUSP	SUSPENDED	RP - ROAD/TOPOGRAPHIC PLAN
BOD	BASIS OF DESIGN	THK	THICKNESS	SV - SURVEY
BOH	BACK OF HOUSE	TN	TRUE NORTH	UP - UTILITY PLAN
C	CLASS C DOOR	TOS	TOP OF SLAB	STRUCTURAL
CD	CONSTRUCTION DOCUMENTS	TYP	TYPICAL	FP - FRAMING PLAN
CLG	CEILING	U	UNLESS NOTED OTHERWISE	NP - FOUNDATION PLAN
CLG HT	CEILING HEIGHT	V	VINYL COMPOSITION FLOOR TILE	FIRE - PROTECTION
CORR	CORRIDOR	VCT	VINYL COMPOSITION FLOOR TILE	VP - EVACUATION PLAN
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE			KP - SPRINKLER PLAN
CH	CHANNEL			MECHANICAL
D	DEPTH			CP - CONTROL PLAN
D LABEL	CLASS D DOOR			HP - HVAC - DUCTWORK PLAN
DEMO	DEMOLITION			PP - PIPING PLAN
DET	DETAIL			PLUMBING
DIST	DISTANCE			PP - PLUMBING PLAN
DOC	DOCUMENT			ELECTRICAL
DR	DOOR			CP - COMMUNICATION
E	CLASS E DOOR			GP - GROUNDING
EL	ELEVATION			LP - LIGHTING
ETR	EXISTING TO REMAIN			PP - POWER
EXST	EXISTING			
F	FLOOR			
FLR	FLOOR			
FRMG	FRAMING			
FT	FEET			
FRP	FIBERGLASS REINFORCED PANELS			
G	GALVANIZED			
GALV	GALVANIZED			
GWB	GYPSON WALL BOARD			
GYP	GYPSON			
H	HEIGHT			
HT	HEIGHT			
I	INTERNATIONAL BUILDING CODE			
IBC	INTERNATIONAL BUILDING CODE			
INSUL	INSULATION			
INT	INTERIOR			
L	LIGHT GAUGE METAL FRAME			
LGMF	LIGHT GAUGE METAL FRAME			
M	MATERIAL			
MATL	MATERIAL			
MIN	MINIMUM, MINUTE			
MNFR	MANUFACTURER			
MTL	METAL			
N	NORTH			
NA	NOT APPLICABLE			
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION			
NIC	NOT IN CONTRACT			
NMAI	NATIONAL MUSEUM OF THE AMERICAN INDIAN			
NO	NUMBER			
NOM	NOMINAL			
NTS	NOT TO SCALE			
O	OVERALL			
OA	OVERALL			
OC	ON CENTER			
ORIG	ORIGINAL			
P	PLYWOOD			
PLYWD	PLYWOOD			
PT	PAINT			
Q	QUANTITY			
QTY	QUANTITY			
R	ROUGH AND READY			
RB	RESILIENT BASE			
RCP	REFLECTED CEILING PLAN			
REF	REFERENCE			
REQ	REQUIRE			
RESIL	RESILIENT			
RM	ROOM			
R&R	ROUGH AND READY			

INDEX OF DRAWINGS

NUMBERING SYSTEM:

SHEET NUMBERING SYSTEM

FILE NAMING SYSTEM

DISCIPLINE CODE

SHEET TYPE

SHEET SEQUENCE (#WITHIN SERIES)

DRAWING TYPE CODE

SF PROJECT NUMBER

DISCIPLINE CODE

SHEET TYPE

SHEET SEQUENCE (# WITHIN SERIES)

DRAWING TYPE CODE

FILE TYPE

ANNOTATION CALLOUTS/DRAWING SYMBOLS

INTERIOR ELEVATION MARK

SECTION MARK

DETAIL PLAN MARK

ROOM TAG

NORTH ARROW

SPOT ELEVATION

DEMO KEYNOTE

NEW WORK KEYNOTE

WALL TYPE

GRID / COLUMN LINE DESIGNATOR

EQUIPMENT NUMBER

DOOR NUMBER

REVISION TAG

FINISH TAG

CEILING TAG

OUT OF SCOPE

INDICATES EXISTING CONDITIONS PHOTO LOCATION

SEE SPECIFICATION SECTION 022000 FOR PHOTOGRAPHS

DEMOLISH OR REMOVE AND REINSTALL AS NOTED

PATCH FLOOR TO MATCH EXISTING.

LEGEND

MATERIALS & SYMBOLS

CEILING SYMBOLS

RETURN AIR GRILLE

SUPPLY AIR GRILLE

EXHAUST AIR GRILLE

EXIT LIGHT

DEFINITIONS

- A. DEMO: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE.
- B. INSTALL: UNLOAD, TEMPORARY STORE, UNPACK, ASSEMBLE, ERECT, PLACE, ANCHOR, APPLY WORK TO DIMENSION, FINISH, CURE, PROTECT, CLEAN, AND SIMILAR OPERATIONS AT PROJECT SITE.
- C. PROVIDE: SUPPLY AND DELIVER TO PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS.
- D. REMOVE AND SALVAGE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND DELIVER WHERE DIRECTED BY ARCHITECT.
- E. REPLACE: DEMO EXISTING AND PROVIDE NEW.
- F. REMOVE AND REINSTALL: DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE FOR REUSE, AND REINSTALL WHERE INDICATED.
- G. RECYCLE: DETACH ITEM FROM EXISTING CONSTRUCTION AND DISPOSE OF IT AT APPROVED COLLECTION SITE. DO NOT REUSE ON-SITE UNLESS SPECIFICALLY DIRECTED TO DO SO.

BUILDING SUMMARY

PROJECT INFORMATION

PROJECT NAME: CAFE AT SACKLER PAVILION

ADDRESS: 12TH AND INDEPENDENCE AVE. SW, WASHINGTON DC

PROPOSED USE OF SPACE: CAFE

APPLICABLE CODES

- BUILDING CODE: IBC 2021 - LIFE SAFETY CODE: NFPA 101, 2021

- ELECTRICAL: NFPA 70 2021 - ACCESSIBILITY CODE: SCAAD (ADAAG & ABA)

- FIRE CODE: NFPA 13 & NFPA 72 2019 & IFC 2021 - ENERGY CODE: IECC 2021

BUILDING PLANNING

OCCUPANCY: MUSEUM, ASSEMBLY A

REQUIRED FIRE SEPARATION: 1-HR / FLOOR, CEILING, WALLS

TYPE OF CONSTRUCTION

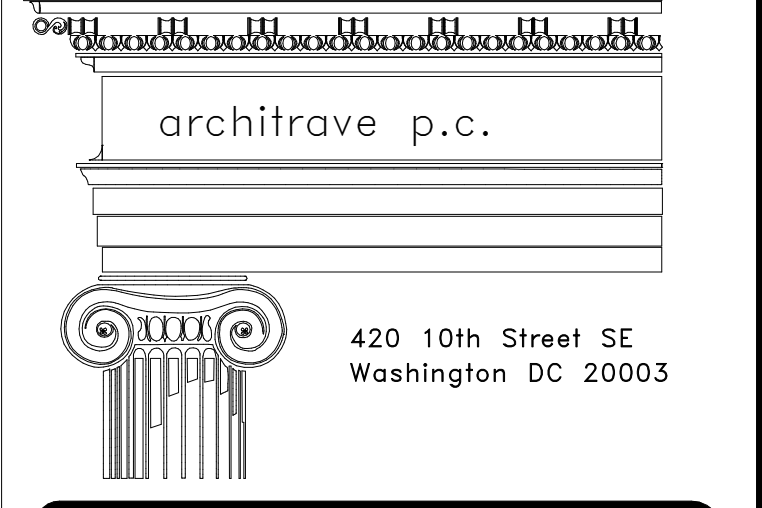
CONSTRUCTION TYPE: 1B (ORIG. BOCA) / 1-A (IBC)

FIRE PROTECTION SYSTEMS

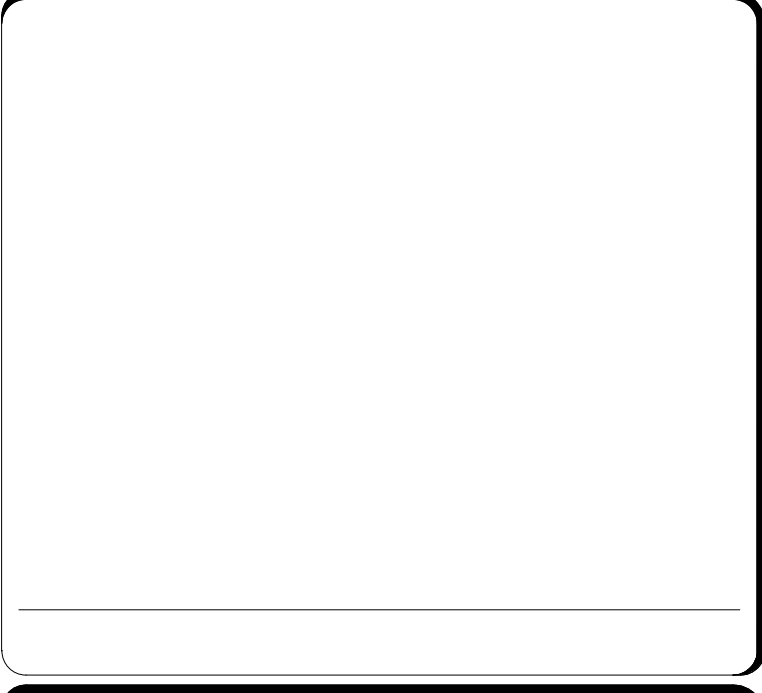
THE BUILDING IS FULLY SPRINKLERED

GENERAL NOTES

- DO NOT SCALE DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK.
- PROVIDE ALL WORK ON THIS PROJECT IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS.
- ALL ITEMS ARE EXISTING UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN FEET-INCHES UNLESS OTHERWISE NOTED.
- THE DRAWINGS HAVE BEEN DEVELOPED THROUGH USE OF EXISTING BUILDING DRAWINGS AND FIELD OBSERVATION. BEFORE STARTING WORK, REVIEW EXISTING BUILDING DRAWINGS AND IMMEDIATELY BRING ANY CONDITION CHANGE OR INFORMATION FOUND TO BE DIFFERENT THAN SHOWN TO THE ATTENTION OF THE COTR.
- VERIFY ALL NEW CONSTRUCTION INSTALLED IN EXISTING FABRIC IS STRUCTURALLY SOUND AND ABLE TO SUPPORT ITS OWN WEIGHT, AS WELL AS THE WEIGHT OF ITEMS IT IS DESIGNED TO CARRY.
- DO NOT STACK MATERIALS IN SUCH A MANNER THAT CREATES CONCENTRATED LOADS.
- FULLY COORDINATE ALL WORK BETWEEN DISCIPLINES. MAINTAIN EGRESS PATHS THROUGH BUILDING AT ALL TIMES THE BUILDING IS OCCUPIED.
- PERFORM NO ON-SITE DEMOLITION WORK UNTIL ALL SUBMITTAL INFORMATION HAS BEEN SUBMITTED AND APPROVED.
- HAZARDOUS MATERIALS ARE NOT EXPECTED TO BE ENCOUNTERED IN THE WORK. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED DURING THE WORK, STOP WORK IMMEDIATELY AND NOTIFY COTR. HAZARDOUS MATERIALS WILL BE REMOVED BY SI UNDER A SEPARATE CONTRACT.
- WHEN WORK REQUIRES DISTURBANCE OF ORIGINAL BUILDING FABRIC FINISHES OR ASSEMBLIES, PATCH, REPAIR AND/OR REPAIR ASSEMBLIES USING MATERIAL AND METHODS IDENTICAL TO THE ORIGINAL INSTALLATIONS AND CREATE A FINISH CONDITION INDISTINGUISHABLE FROM ORIGINAL CONDITION.
- PAINT ALL NEW OR REPAIRED GWB WALLS AND DOORS IN WORK AREA.
- COORDINATE WITH OPS BEFORE REMOVING ANY DOORS WITH SECURITY. SLEEVE PIPES AND/OR APPLY FIRE SEALANT FOR ALL PENETRATIONS
- "PROVIDE" MEANS "SUPPLY AND INSTALL"



FOR CONSTRUCTION

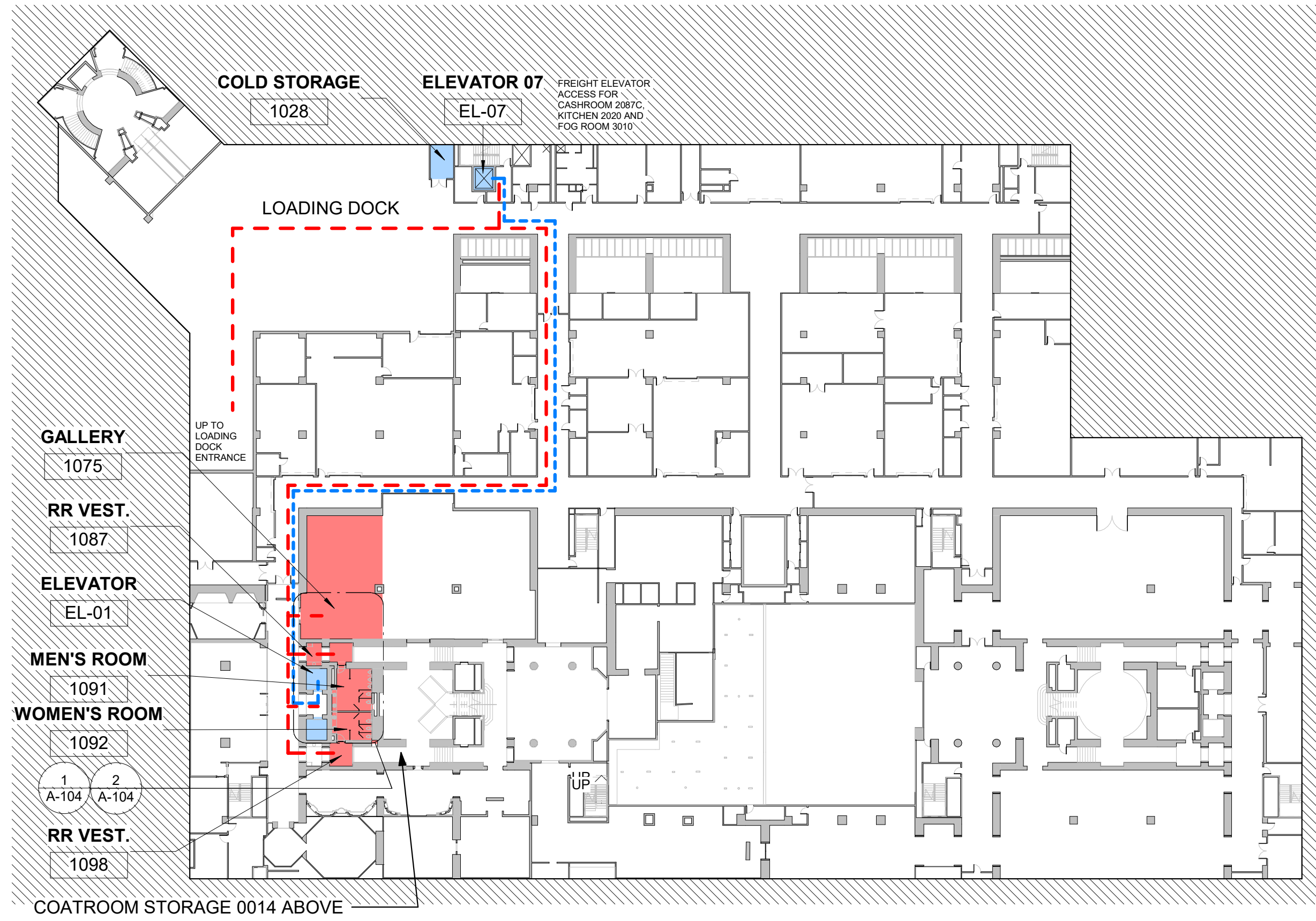


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REVISION #	DATE	REVISION DESCRIPTION	

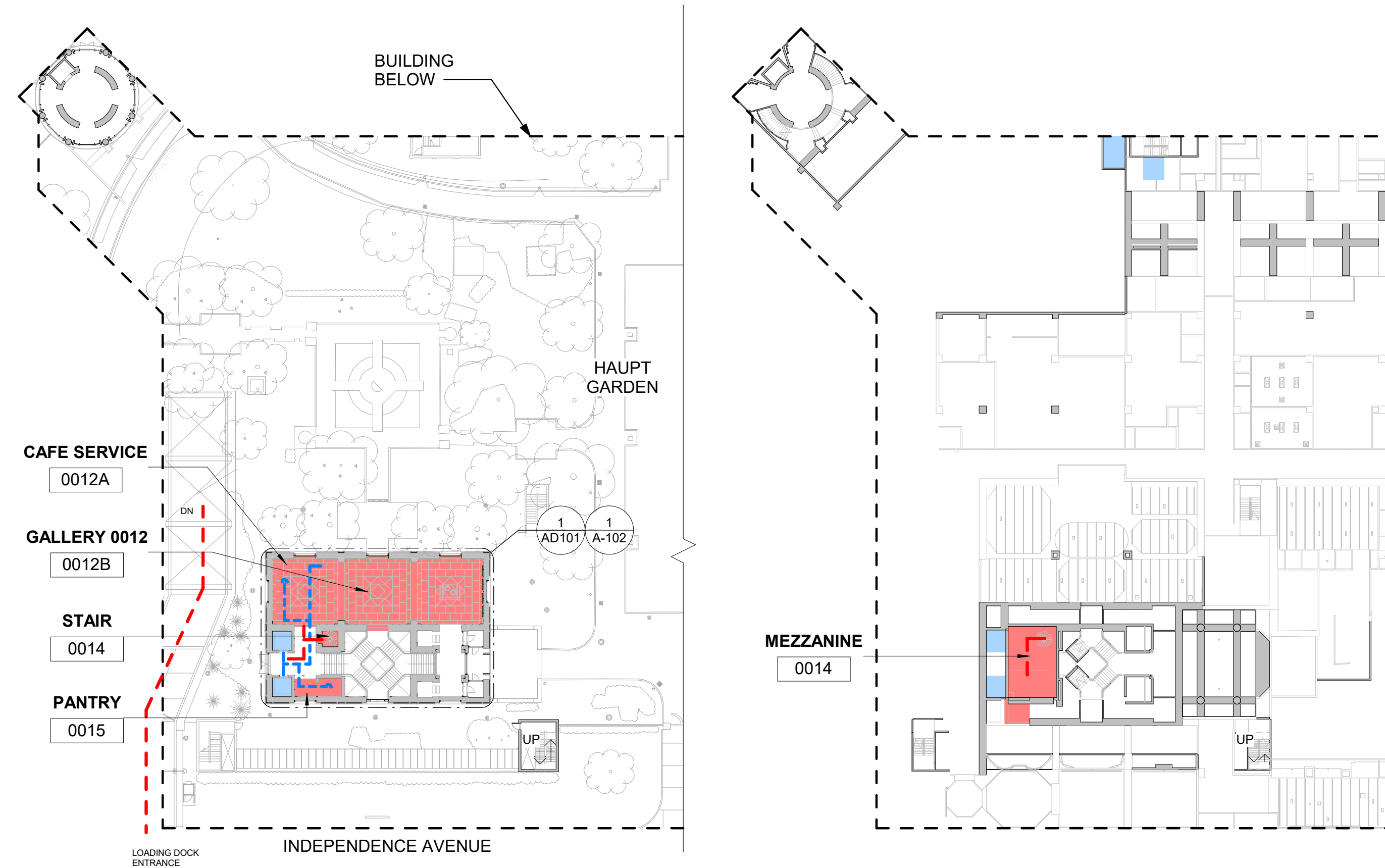


BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	SYMBOLS AND ABBREVIATIONS
WORKING STAFF	N/A N/A N/A
DESIGNED BY	DRAWN BY
CHECKED BY	

SHEET NO. **A-001**
9 of 103



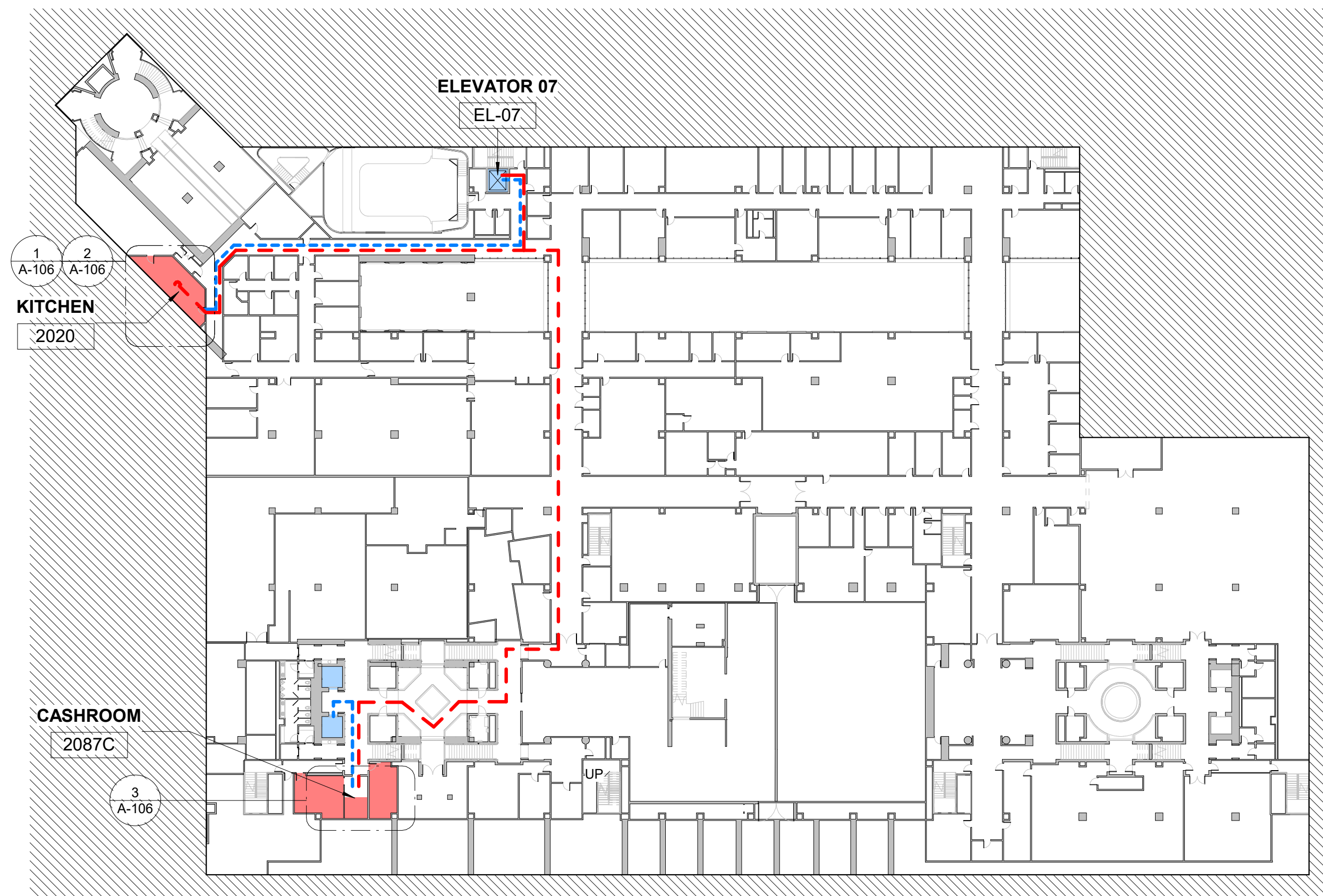
5 OVERALL PLAN - B1 LEVEL
SCALE = 1" = 40'-0"



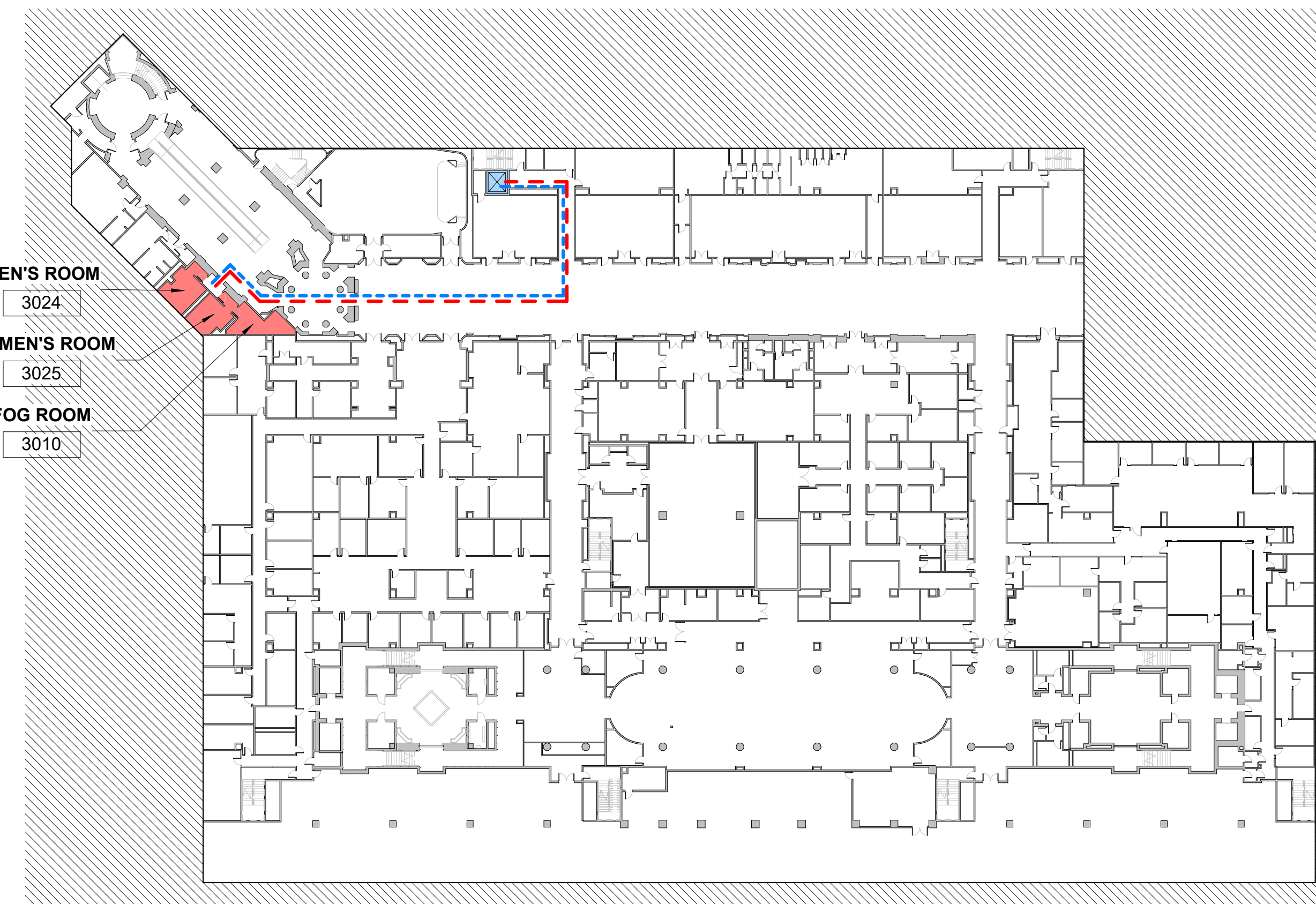
4 OVERALL PLAN - GROUND LEVEL
SCALE = 1" = 40'-0"

3 OVERALL PLAN - MEZZANINE
SCALE = 1" = 40'-0"

- CAFE ACCESS
- CAFE SOW
- OPERATIONS PATH
- CONTRACTOR ACCESS PATH



2 OVERALL PLAN - B2 LEVEL
SCALE = 1" = 40'-0"



1 OVERALL PLAN - B3 LEVEL
SCALE = 1" = 40'-0"

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420 10th Street SE
Washington DC 20003

FOR CONSTRUCTION

MARGARET REMY
APR 130982
LICENSED ARCHITECT

LEVEL G

KEY PLAN

0 20' 40' 80'
1" = 40'-0"

GRAPHIC SCALE(S)

DATE	SUBMISSION
07/18/24	Final Construction Documents
REVISION #	DATE

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600 Maryland Avenue S.W., Suite 5001
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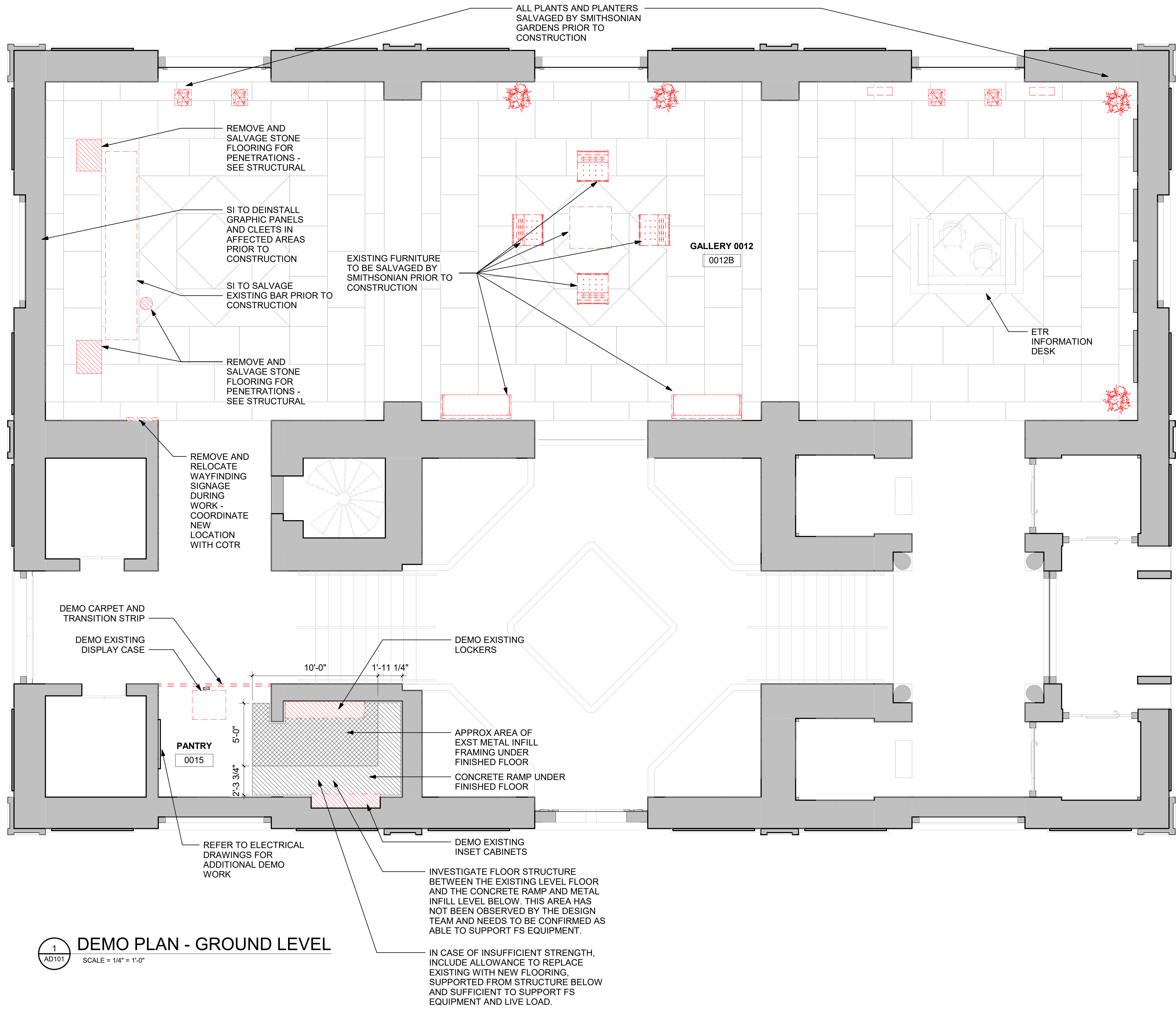
BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	OVERALL ACCESS PLANS SACKLER PAVILION EXISTING FACILITY
WORKING STAFF	DESIGNED BY: N/A DRAWN BY: N/A CHECKED BY: N/A

SHEET NO. **A - 0 0 2**

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7/18/2024 7:11:06 PM
A-002 BY Approver 07/18/24 Final Construction Documents

7/18/2024 7:11:35 PM
AD101 BY Approver 07/18/24 Final Construction Documents



1 DEMO PLAN - GROUND LEVEL
SCALE = 1/4" = 1'-0"

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FOR CONSTRUCTION

DISTRICT OF COLUMBIA
MARGARET REW
ARCHITECT
LICENSED ARCHITECT

LEVEL G

KEY PLAN

0 4' 8' 16'
1/8" = 1'-0"

GRAPHIC SCALE(S)

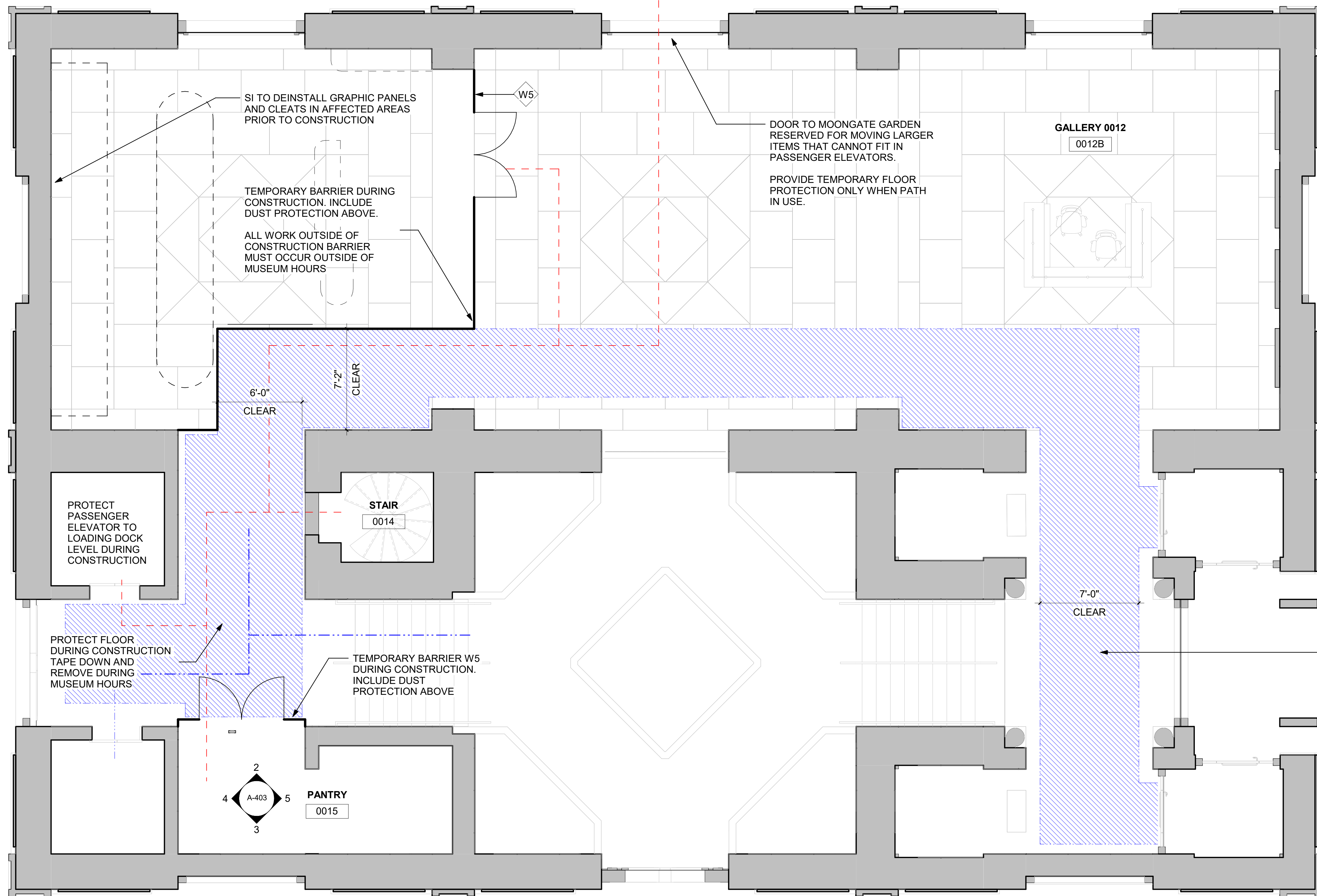
DATE	07/18/24	SUBMISSION	Final Construction Documents
REVISION #	DATE	DESCRIPTION	

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Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	DEMO PLAN - GROUND
WORKING STAFF	N/A NN MR

SHEET NO.	AD101
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A-101 BY Approver 07/18/24 Final Construction Documents

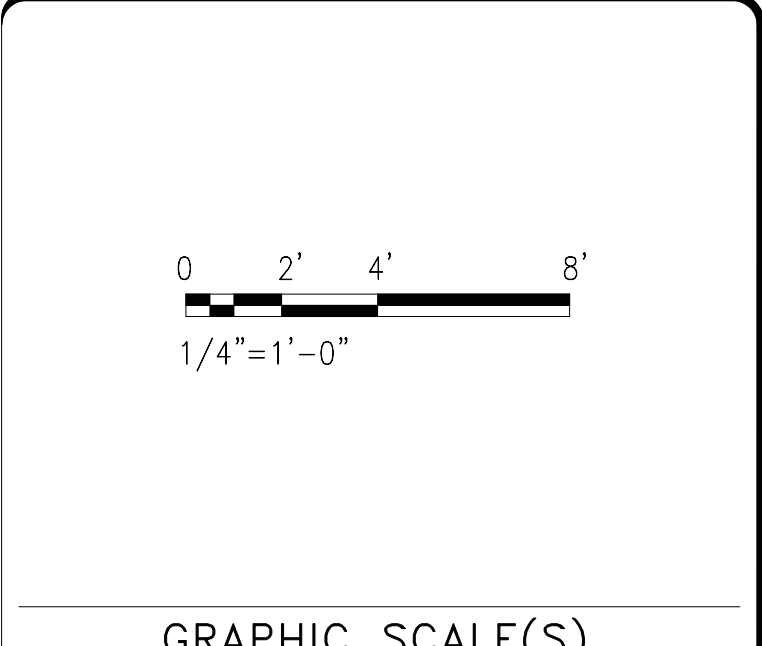
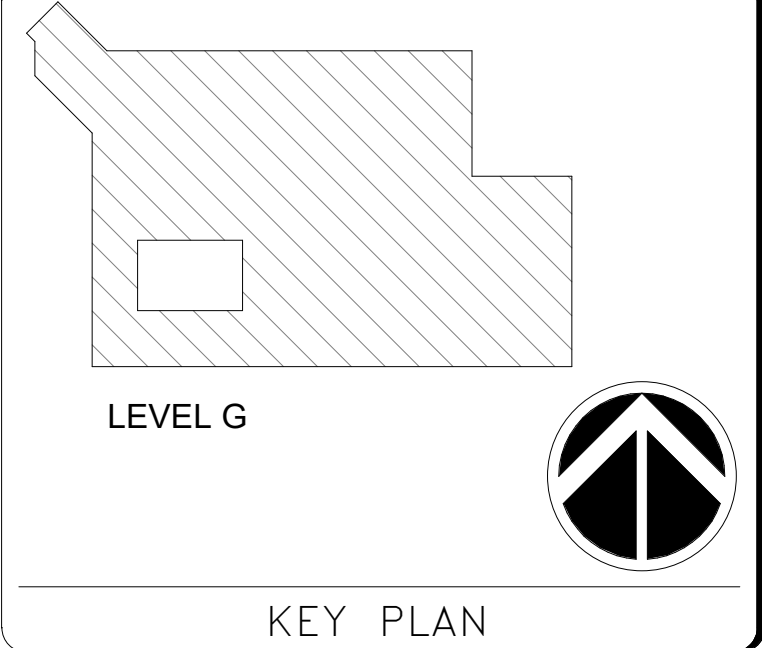


1 ACCESS PLAN - GROUND LEVEL
SCALE = 1/4" = 1'-0"

--- CONTRACTOR ACCESS PATH
- - - PUBLIC ROUTE

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Washington DC 20003

FOR CONSTRUCTION

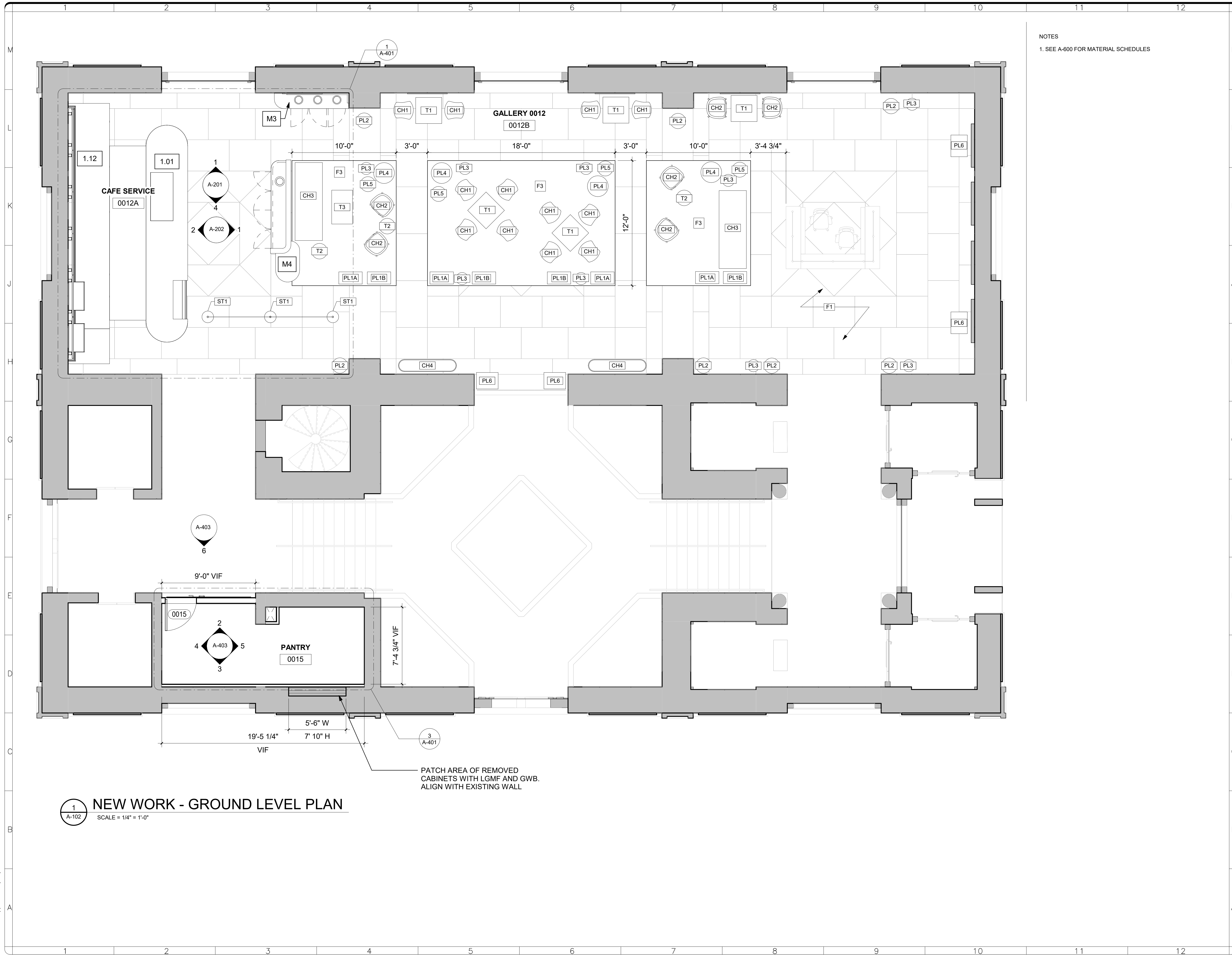


DATE	07/18/24	REVISION #	1
DESCRIPTION	Final Construction Documents	REVISION #	2
DATE		REVISION #	3
DESCRIPTION		REVISION #	4
DATE		REVISION #	5
DESCRIPTION		REVISION #	6

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BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	ACCESS PLAN - GROUND LEVEL
WORKING STAFF	DESIGNED BY: N/A, DRAWN BY: N/A, CHECKED BY: N/A

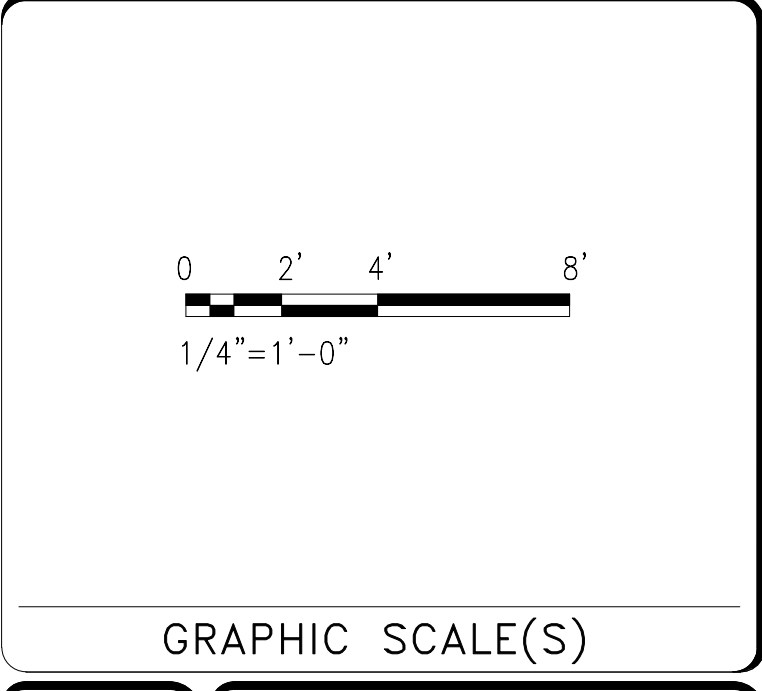
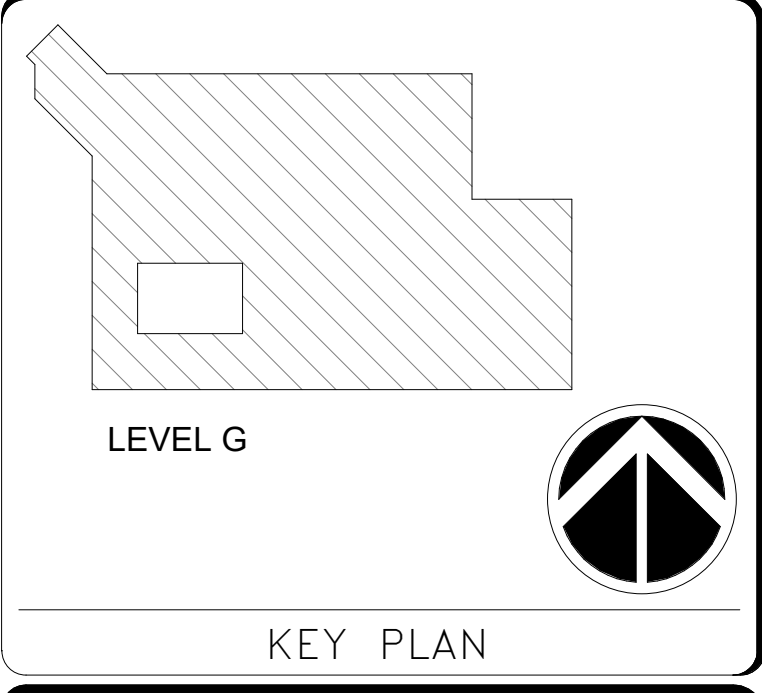
SHEET NO. **A - 101**
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NOTES
1. SEE A-600 FOR MATERIAL SCHEDULES

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DATE	07/18/24	SUBMISSION	Final Construction Documents
REVISION #	DATE	DESCRIPTION	

Smithsonian Institution

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600 Maryland Avenue S.W., Suite 5001
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BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	NEW WORK PLAN - GROUND LEVEL
WORKING STAFF	N/A NN MR
DESIGNED BY	DRAWN BY
CHECKED BY	

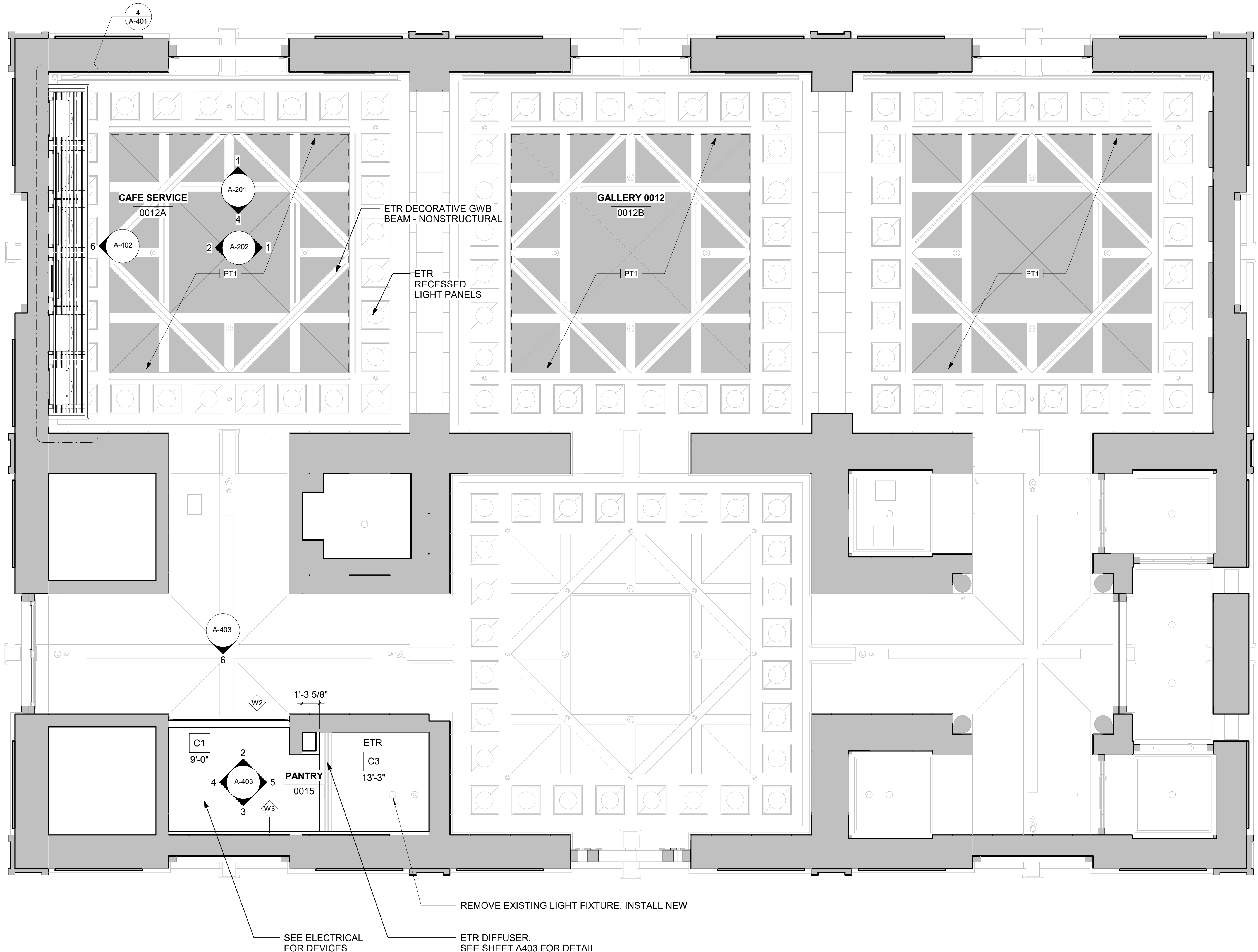
SHEET NO.	A - 102
13 of 103	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

1 NEW WORK - GROUND LEVEL PLAN
SCALE = 1/4" = 1'-0"

PATCH AREA OF REMOVED CABINETS WITH LGMF AND GWB. ALIGN WITH EXISTING WALL

7/18/2024 7:11:07 PM
A-102 BY Approver 07/18/24 Final Construction Documents

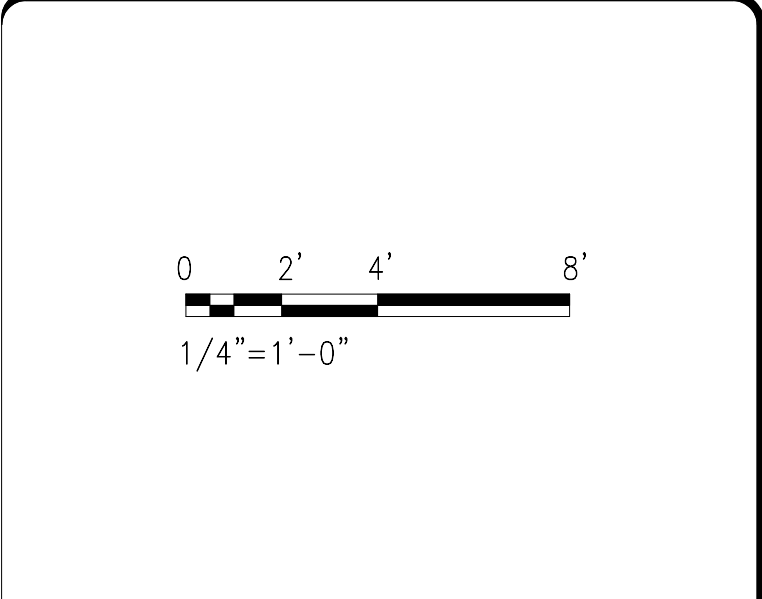
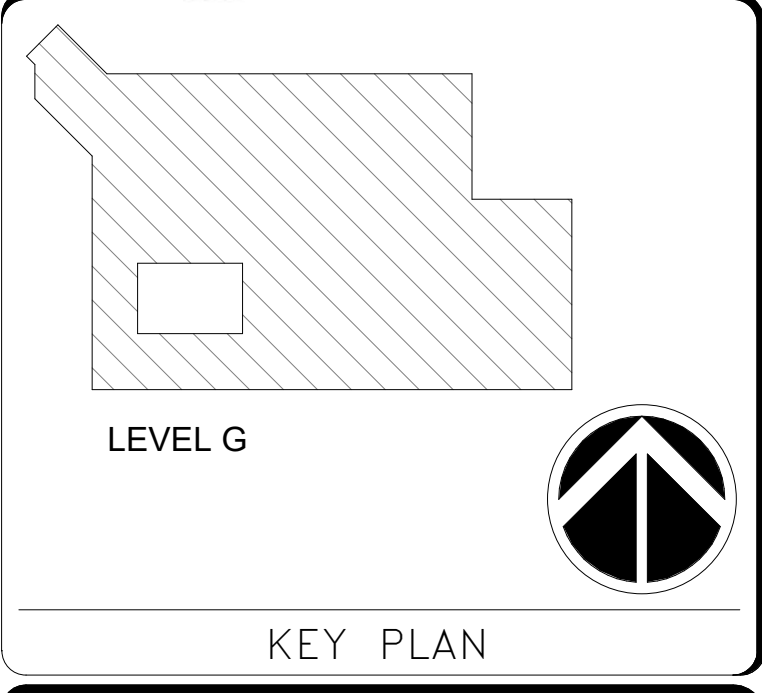
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A-103 BY Approver 07/18/24 Final Construction Documents



1 NEW WORK - GROUND LEVEL RCP
A-103 SCALE = 1/4" = 1'-0"

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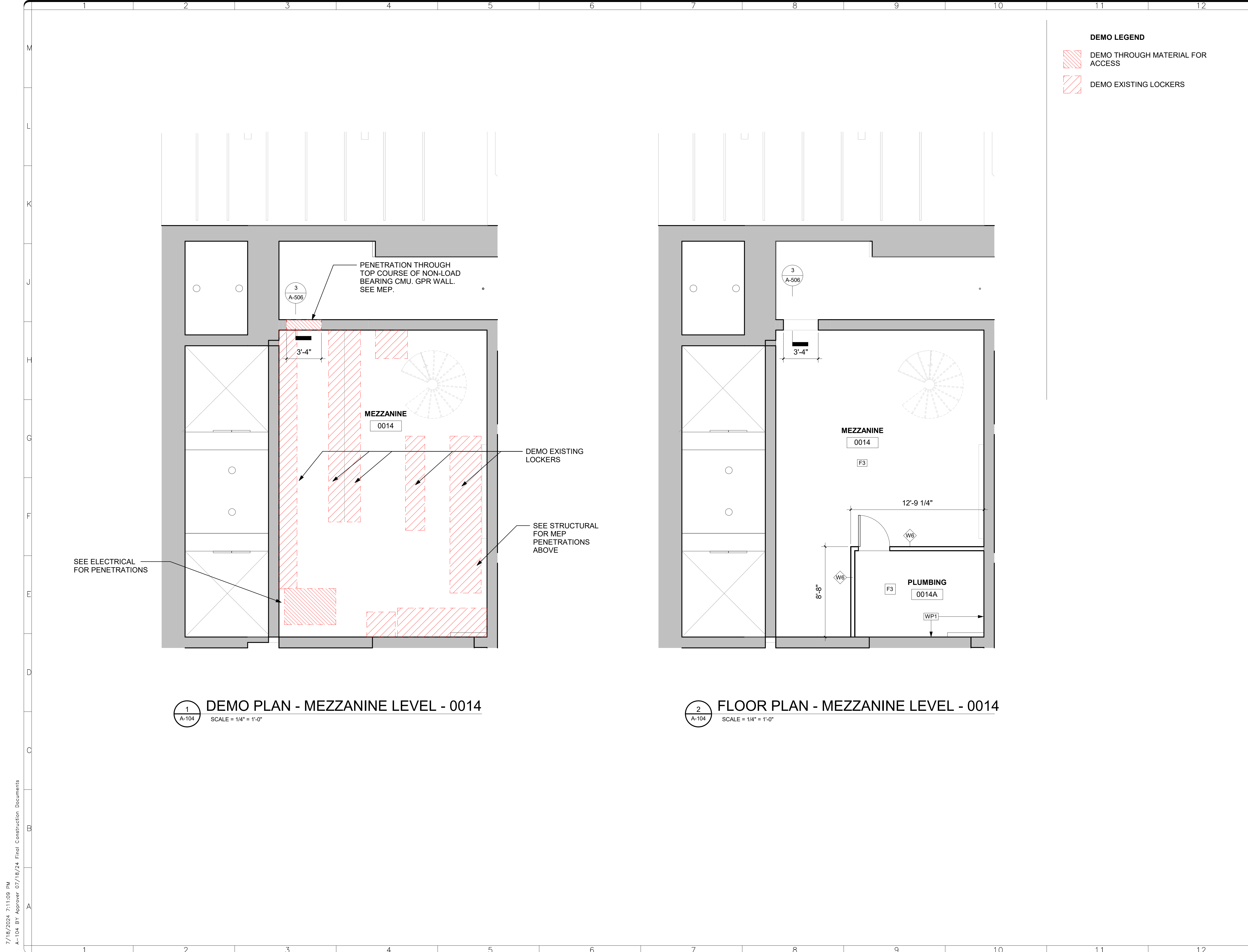


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SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	NEW WORK RCP - GROUND LEVEL
WORKING STAFF	N/A NN MR

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DEMO LEGEND

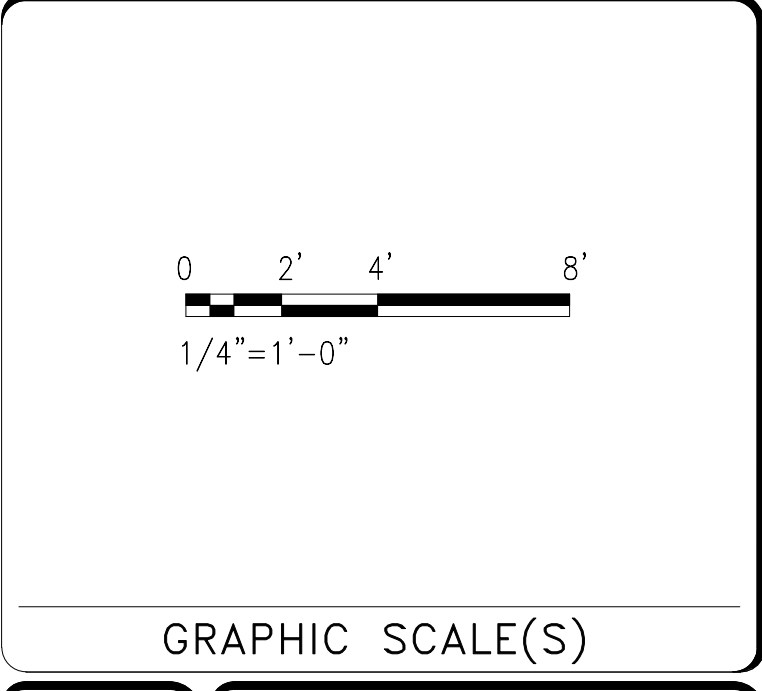
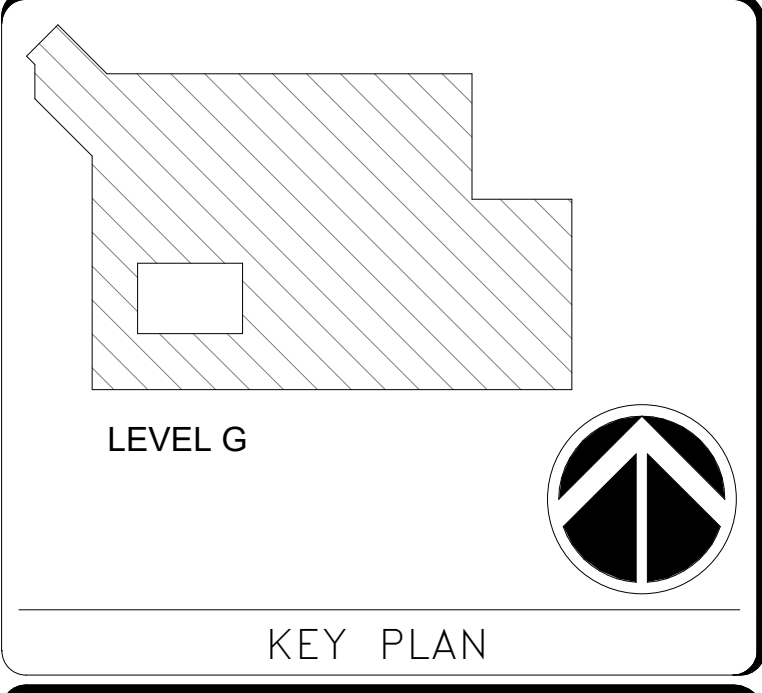
DEMO THROUGH MATERIAL FOR ACCESS

DEMO EXISTING LOCKERS

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Washington DC 20003

FOR CONSTRUCTION



DATE	07/18/24	SUBMISSION	Final Construction Documents
REVISION #	DATE	DESCRIPTION	

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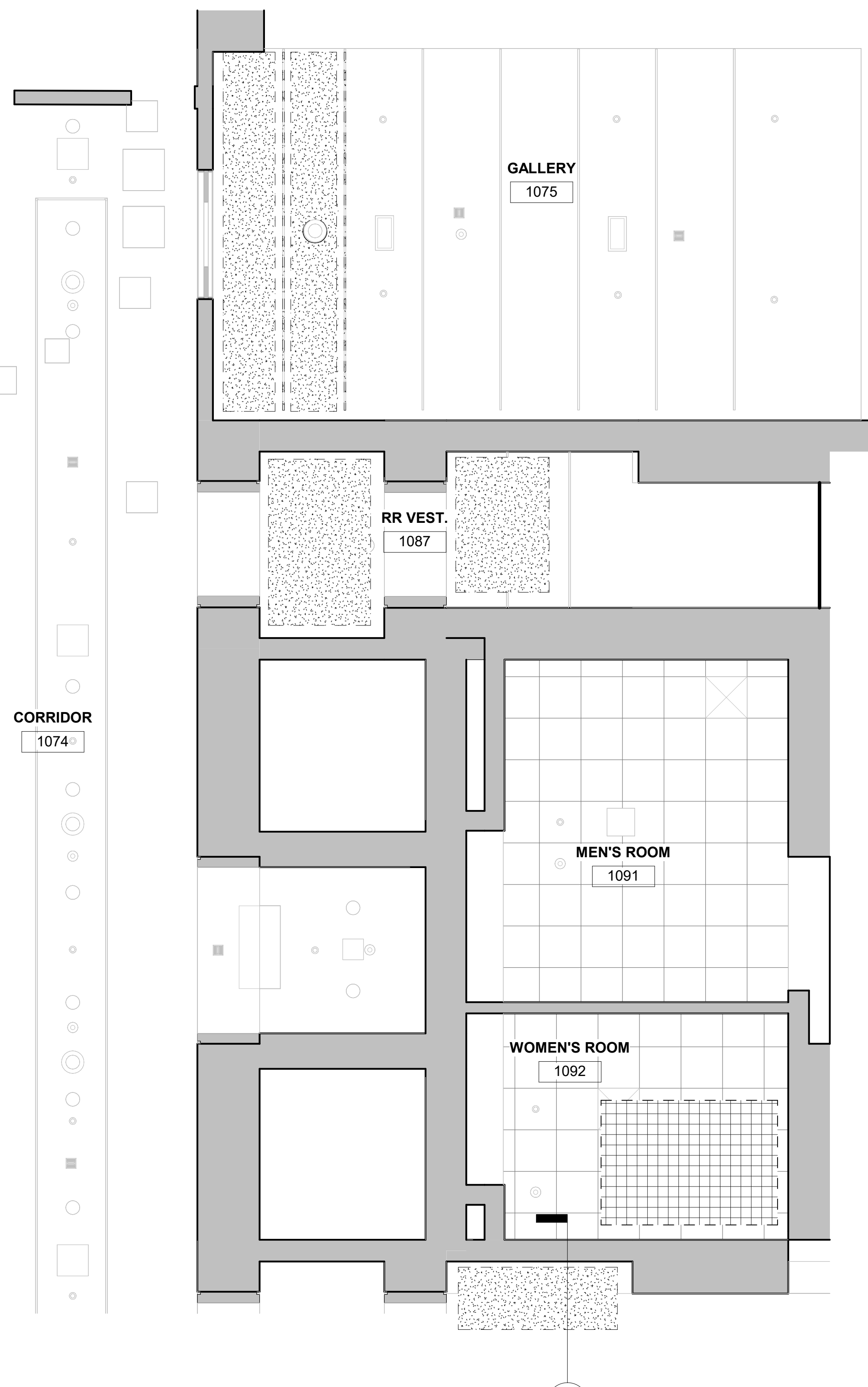
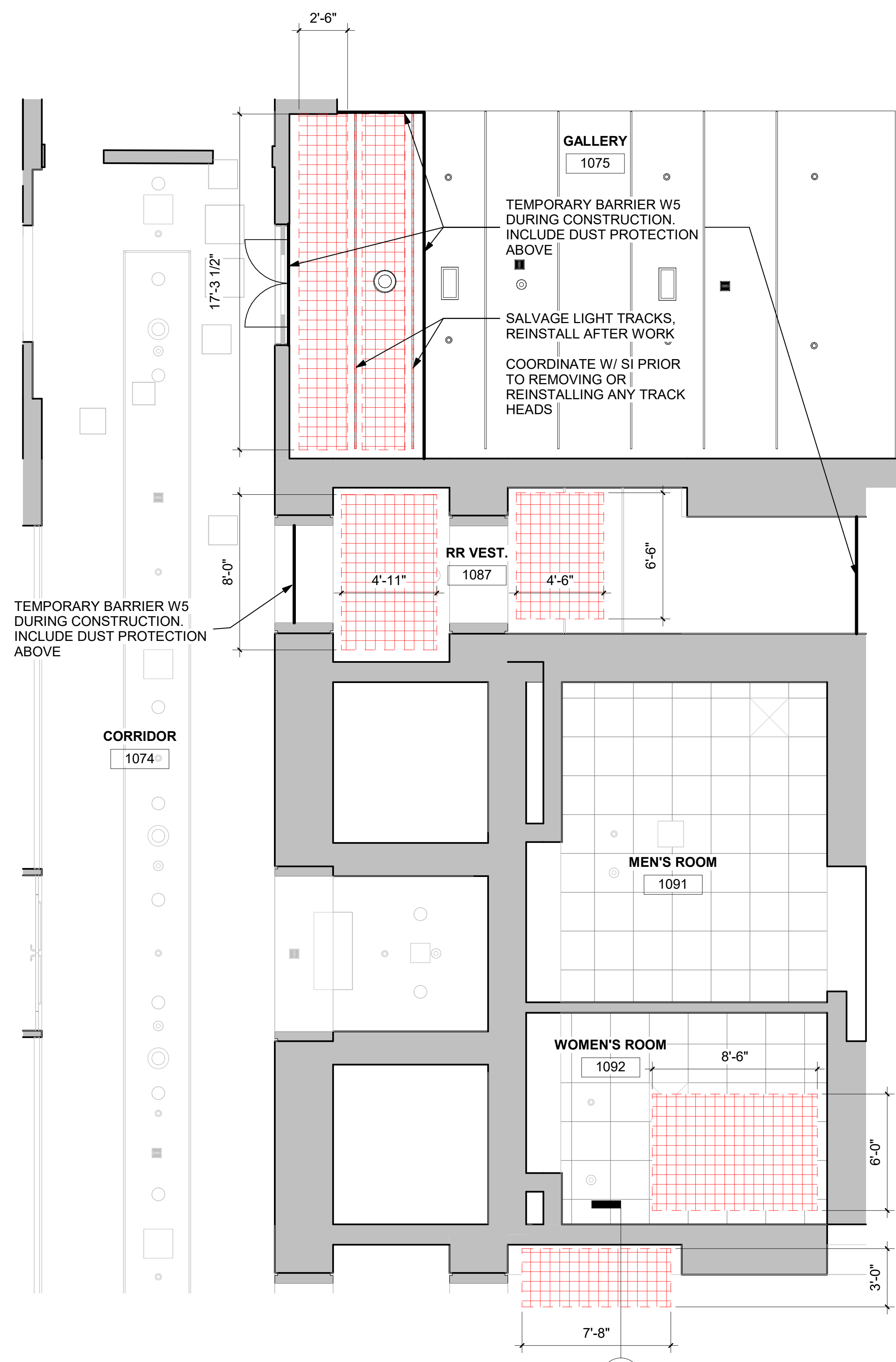
Smithsonian Facilities
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BUILDING NAME	NMAA												
ADDRESS	12th and Independence Avenue, SW, Washington DC												
PROJECT TITLE	CAFE AT SACKLER PAVILION												
SF PROJECT NUMBER	2209110												
A/E PROJECT NUMBER	1401.54												
DRAWING TITLE	DEMO/NEW WORK PLANS - MEZZANINE												
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>N/A</td> <td>NN</td> <td>MR</td> </tr> <tr> <td>DRAWN BY</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> <td></td> <td></td> </tr> </table>	DESIGNED BY	N/A	NN	MR	DRAWN BY				CHECKED BY			
DESIGNED BY	N/A	NN	MR										
DRAWN BY													
CHECKED BY													

SHEET NO. **A-104**
15 of 103

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A-104 BY Approver 07/18/24 Final Construction Documents

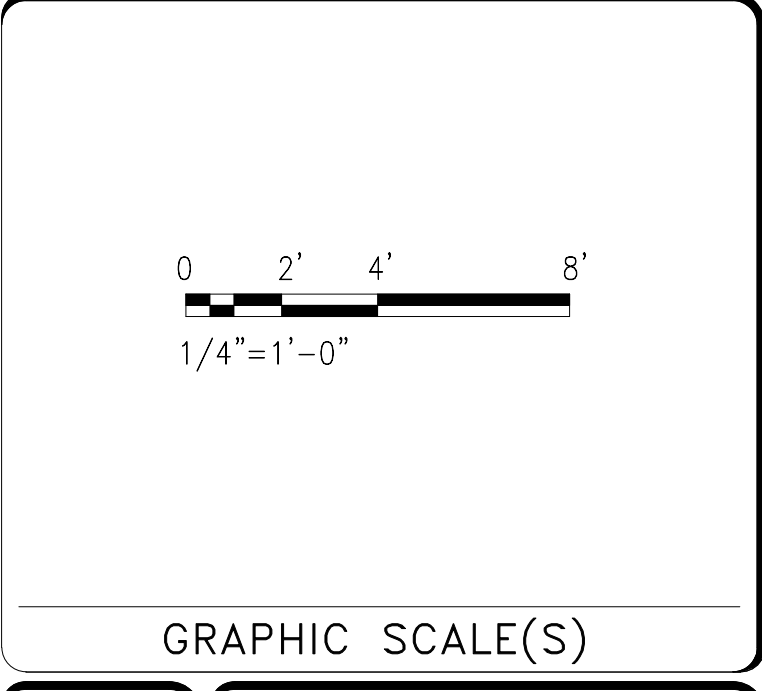
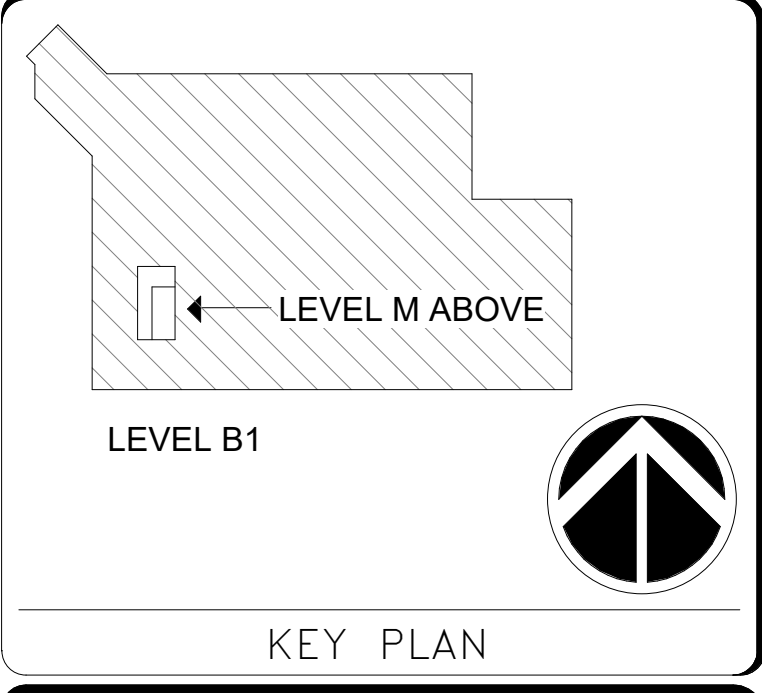
7/18/2024 10:56:35 PM
A-105 BY Approver 07/18/24 Final Construction Documents



- DEMO LEGEND**
- REMOVE FOR MEP PLENUM ACCESS
 - INSTALL NEW GWB CEILING TO MATCH
 - REINSTALL ACOUSTIC CEILING TILES

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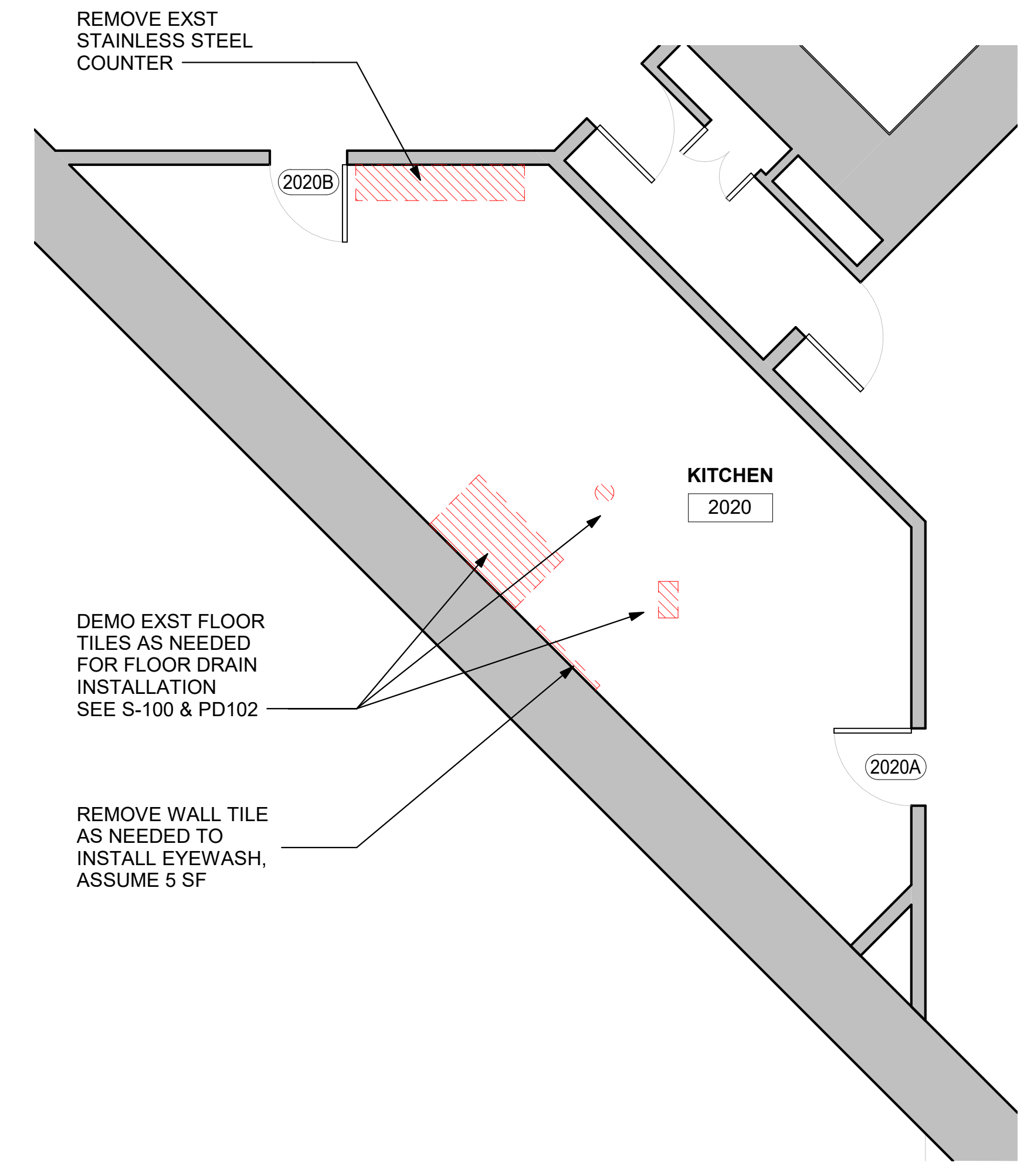


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REVISION #	DATE	DESCRIPTION	

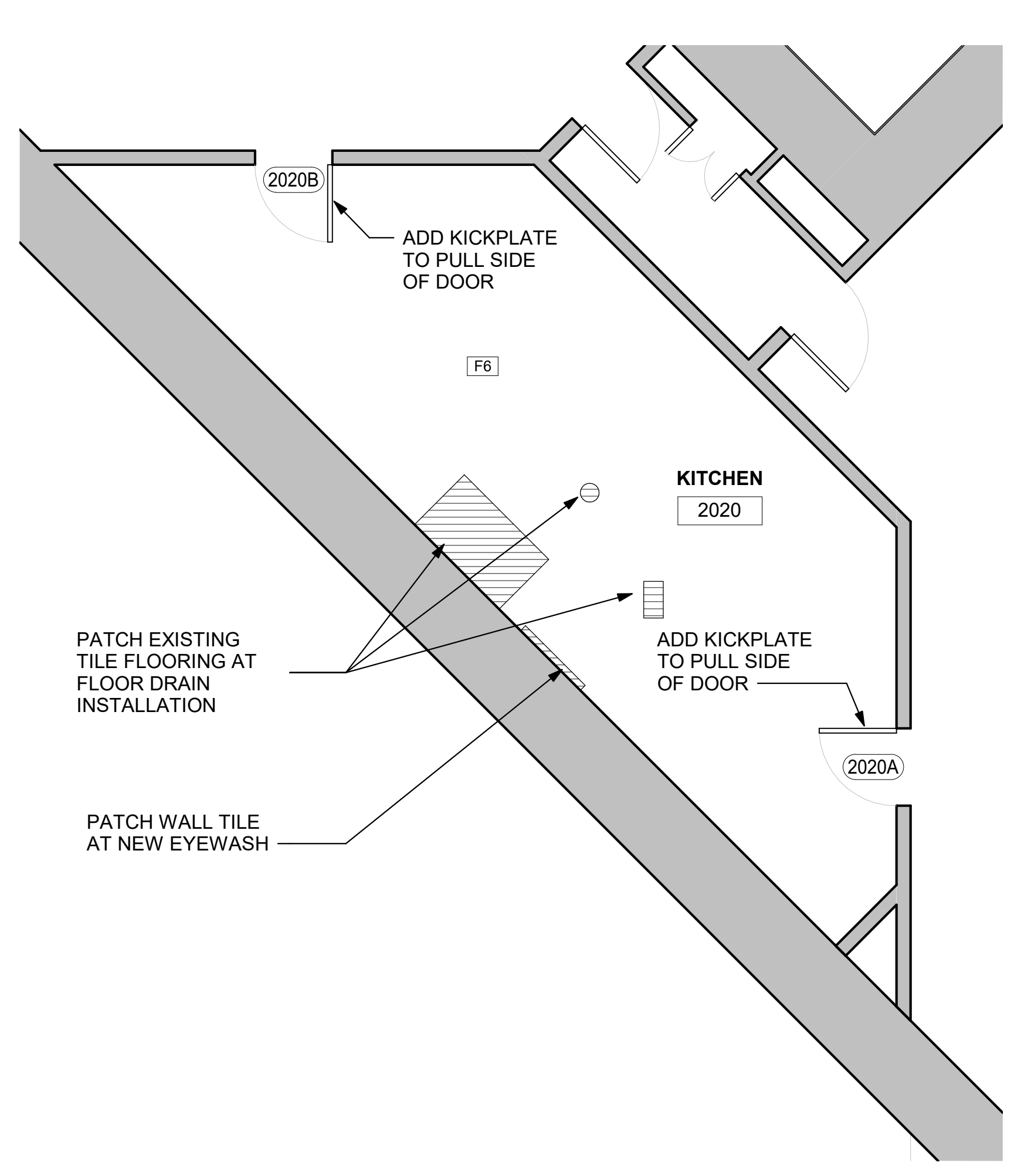
Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	DEMO/NEW WORK PLANS - B1 LEVEL
WORKING STAFF	DESIGNED BY: N/A, DRAWN BY: MR, CHECKED BY: MR
SHEET NO.	A - 105

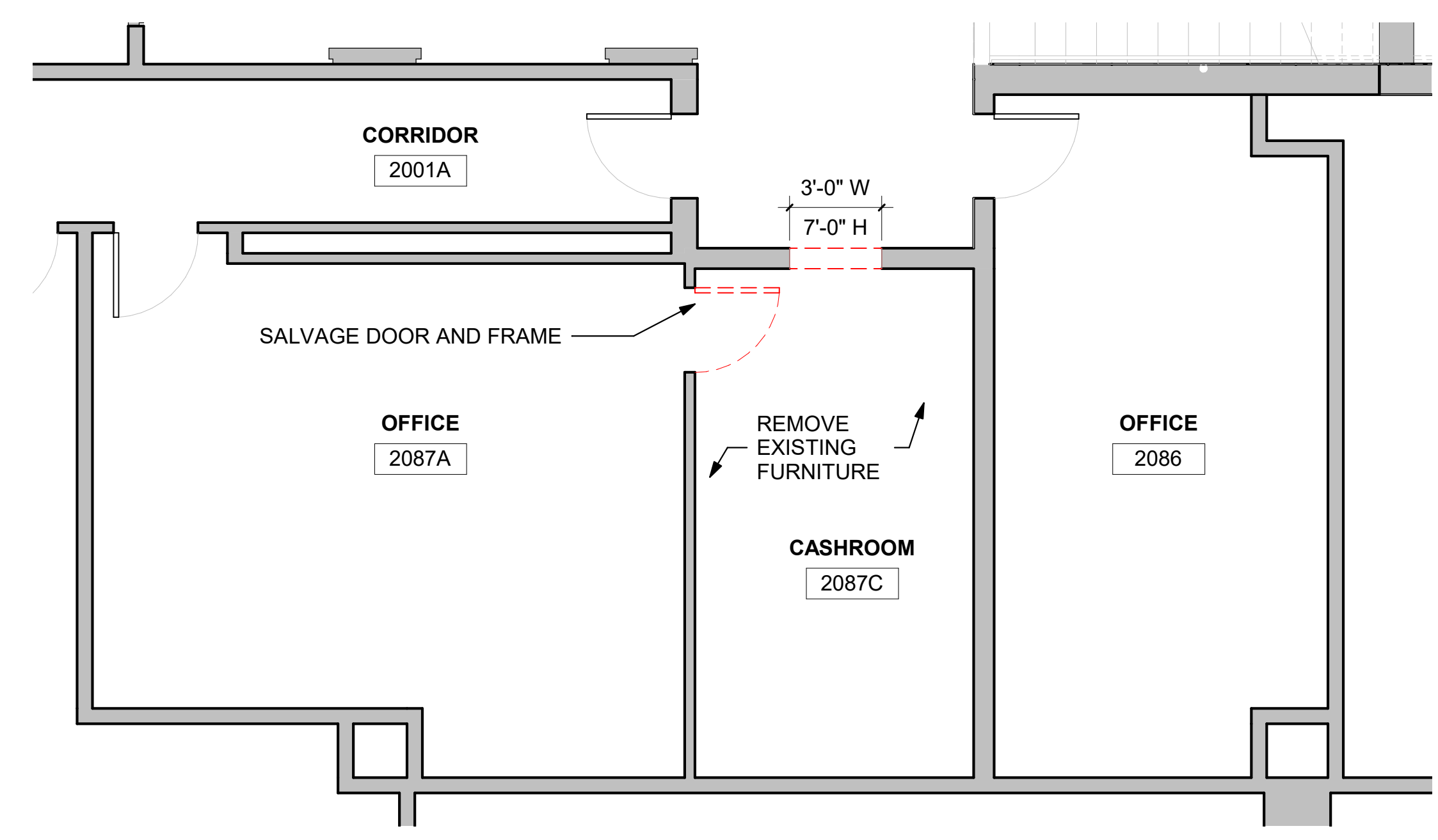
1 DEMO PLAN - B2 LEVEL - KITCHEN 2020
SCALE = 1/4" = 1'-0"



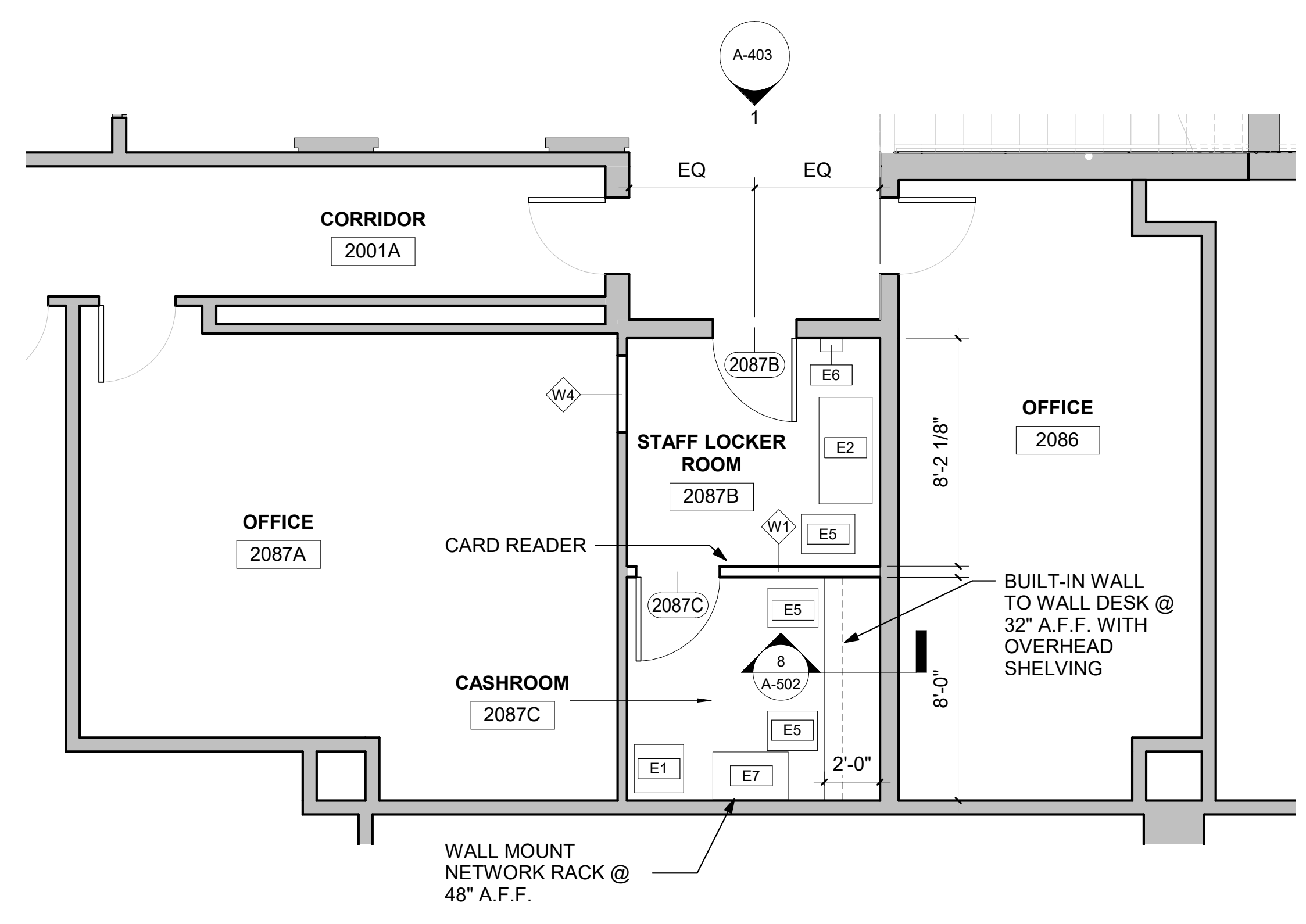
2 FLOOR PLAN - B2 LEVEL - KITCHEN 2020
SCALE = 1/4" = 1'-0"



3 DEMO PLAN - B2 LEVEL - CASHROOM 2087
SCALE = 1/4" = 1'-0"



4 FLOOR PLAN - B2 LEVEL - CASHROOM 2087
SCALE = 1/4" = 1'-0"



NOTES
1. SEE A-600 FOR MATERIAL SCHEDULES

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FOR CONSTRUCTION

DISTRICT OF COLUMBIA
MARGARET REW
ARCHITECT
LICENSED ARCHITECT

LEVEL B2

KEY PLAN

0 2' 4' 8'
1/4" = 1'-0"

GRAPHIC SCALE(S)

DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	DESCRIPTION	

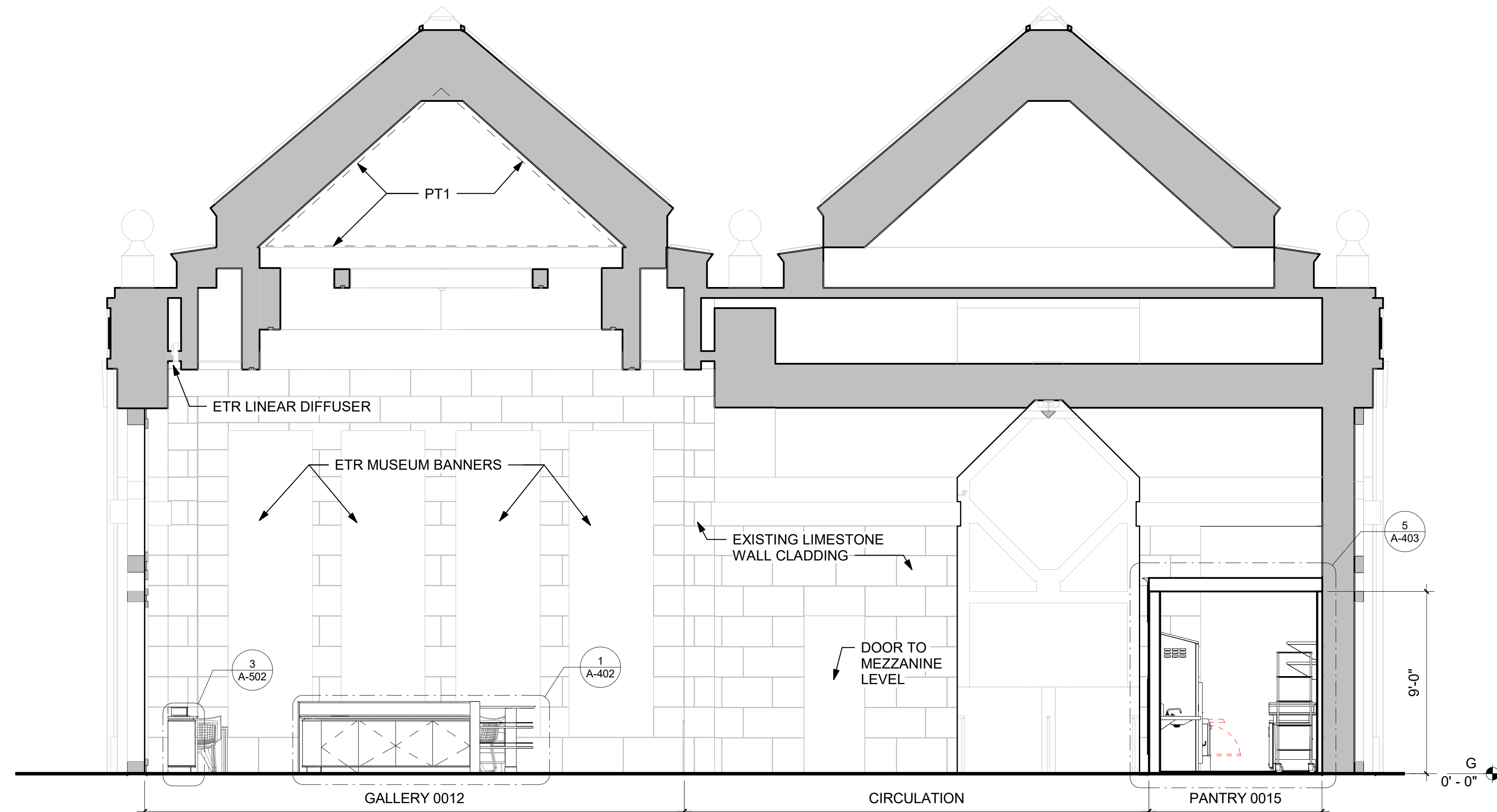
Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	DEMO/NEW WORK PLANS - B2 LEVEL
WORKING STAFF	DESIGNED BY: N/A DRAWN BY: NN CHECKED BY: MR

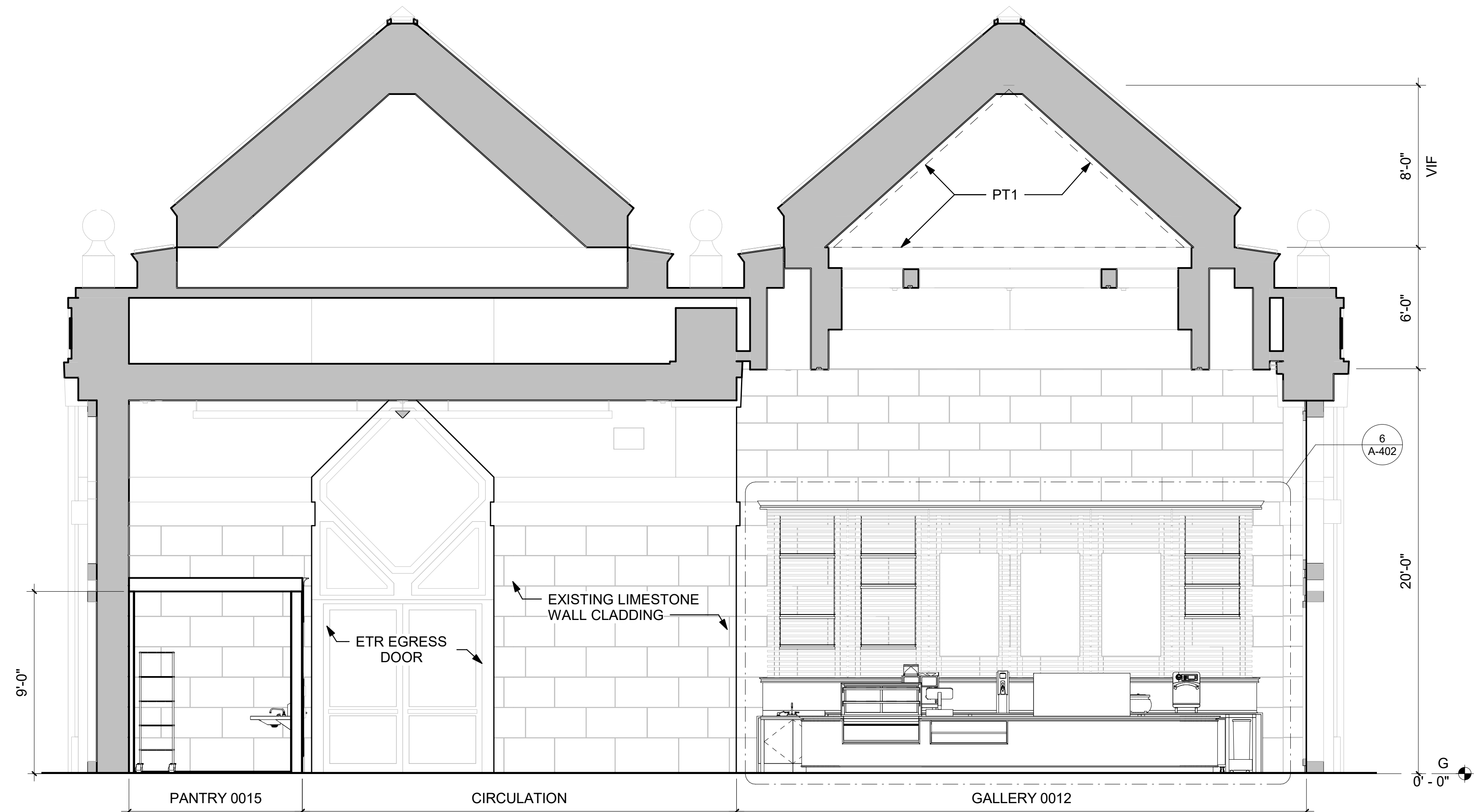
SHEET NO. **A-106**
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7/18/2024 7:11:10 PM
A-106 BY: Approver 07/18/24 Final Construction Documents

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A-202 BY Approver 07/18/24 Final Construction Documents



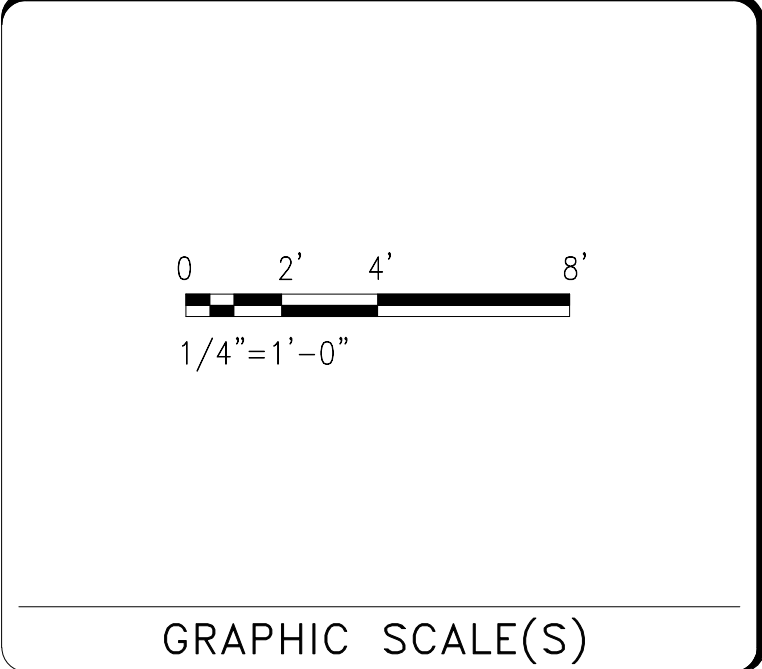
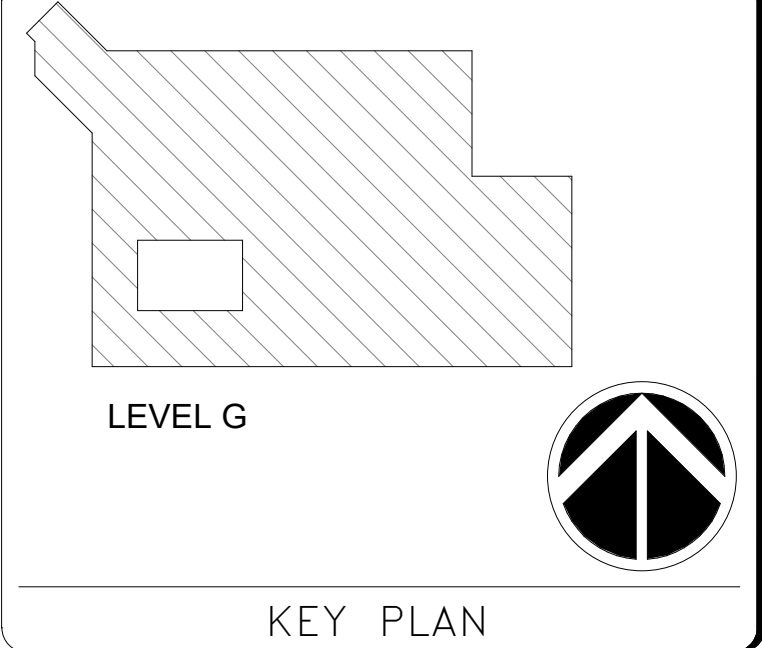
1 INTERIOR ELEVATION - CAFE EAST
SCALE = 1/4" = 1'-0"



2 INTERIOR ELEVATION - CAFE WEST
SCALE = 1/4" = 1'-0"

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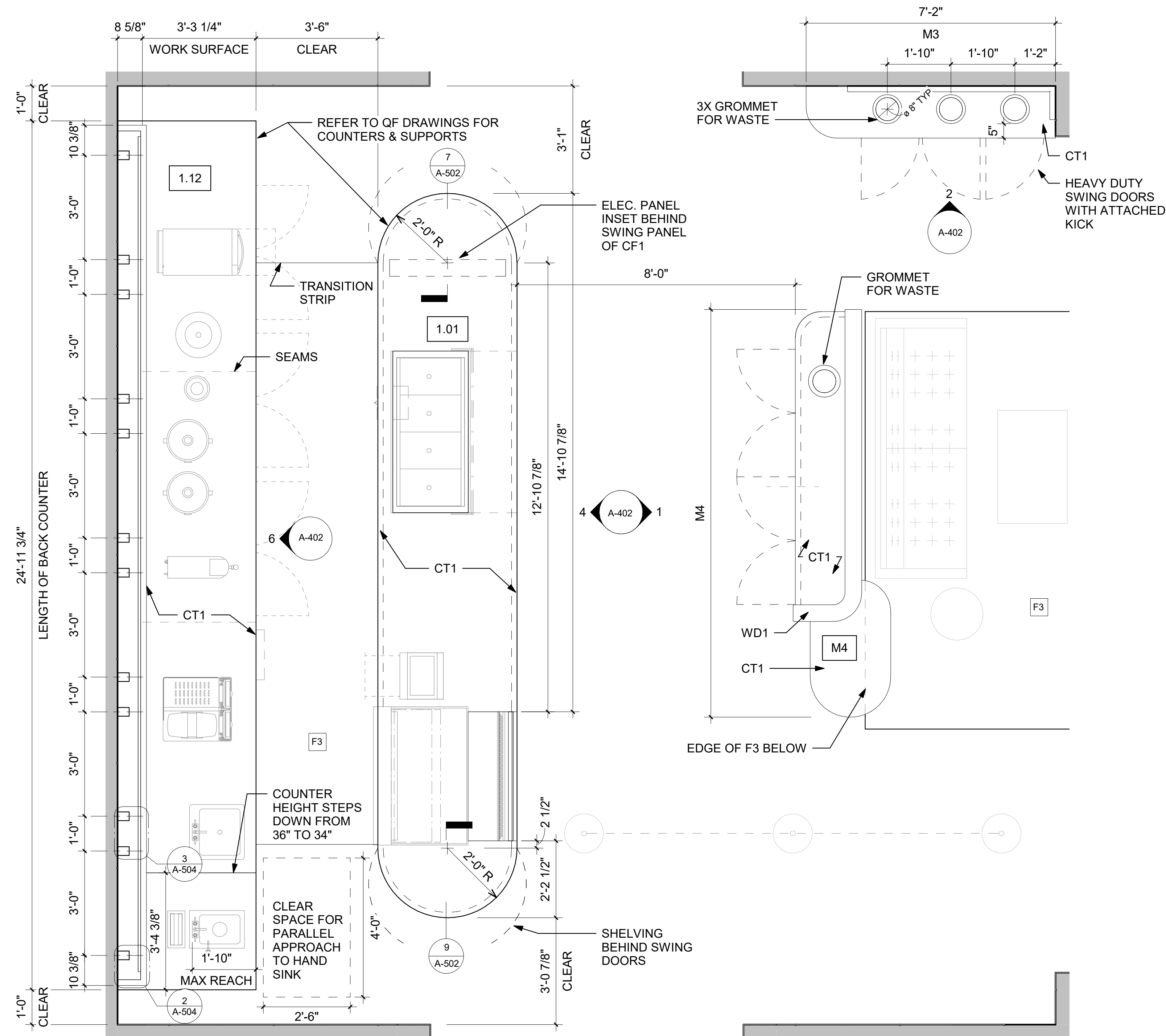


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REVISION #	DATE	DESCRIPTION	

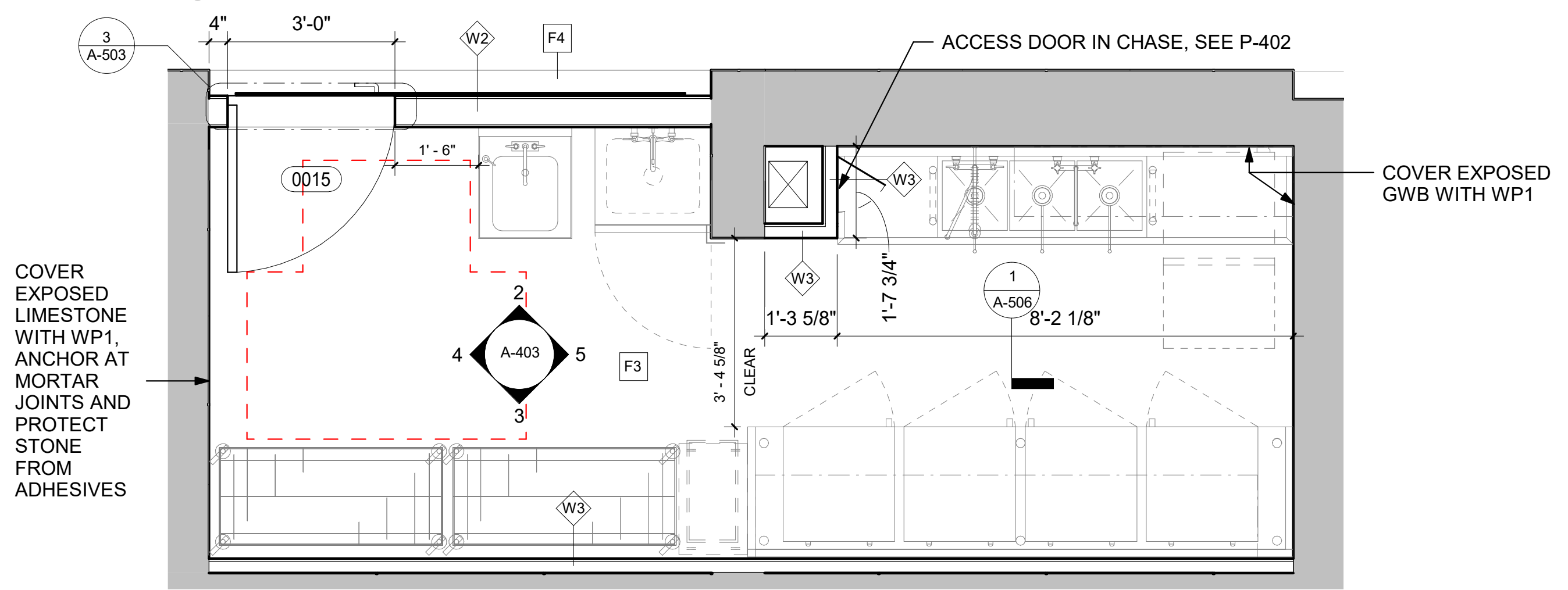
Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W., Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
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WORKING STAFF	MR NN MR
DESIGNED BY	MR
DRAWN BY	NN
CHECKED BY	MR

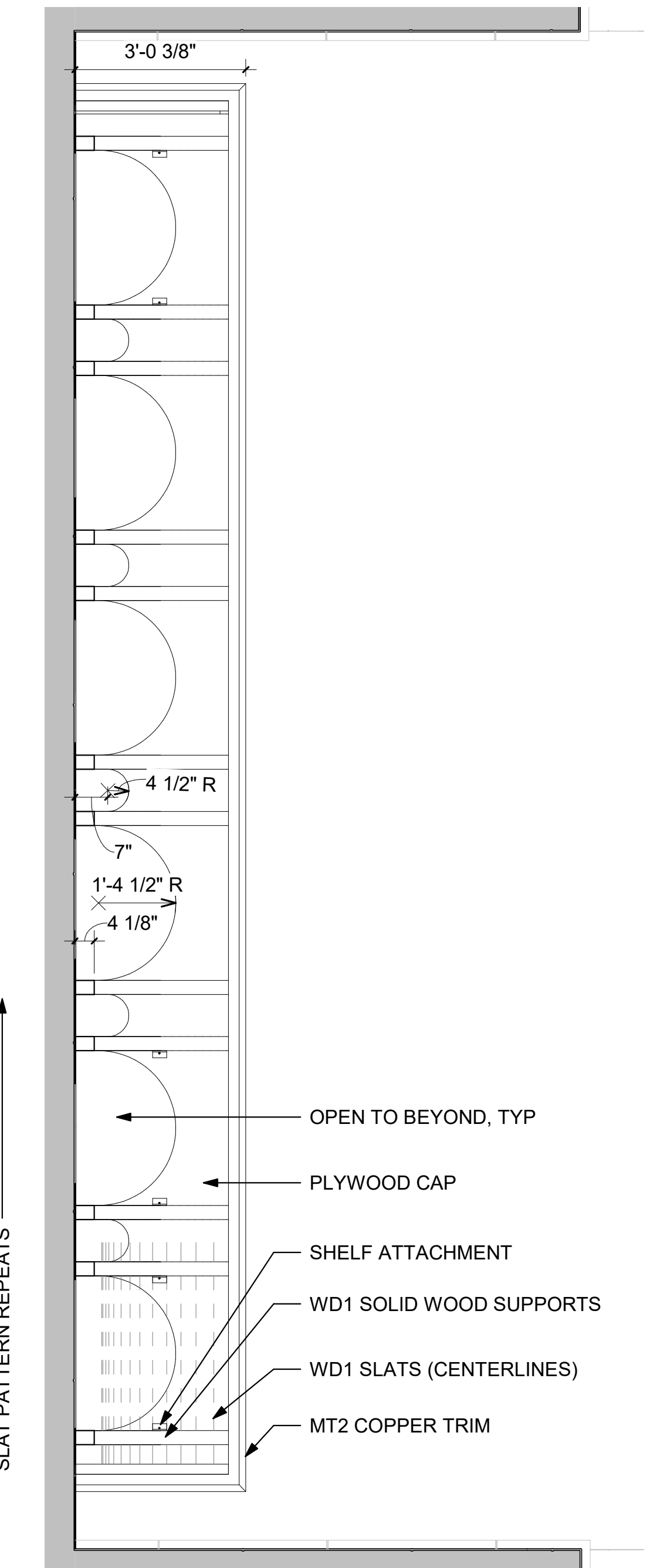
SHEET NO. A-202
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1 GALLERY 0012 - COUNTER PLANS
SCALE = 1/2" = 1'-0"

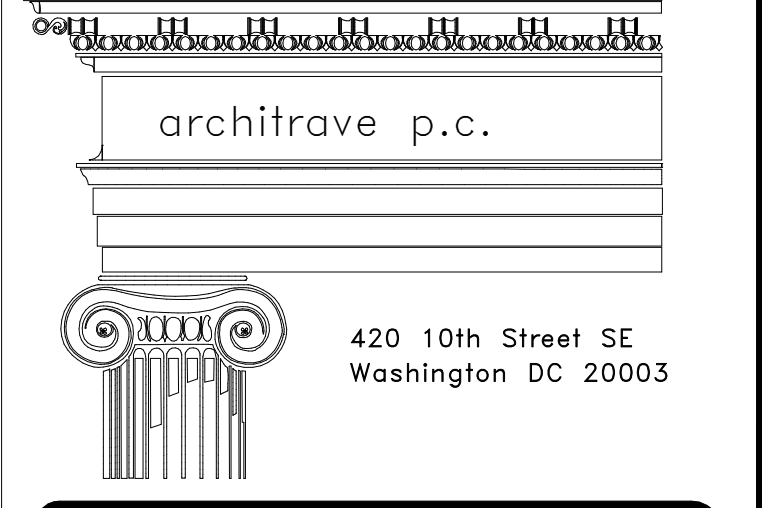


3 PANTRY 0015 DETAIL PLAN
SCALE = 1/2" = 1'-0"

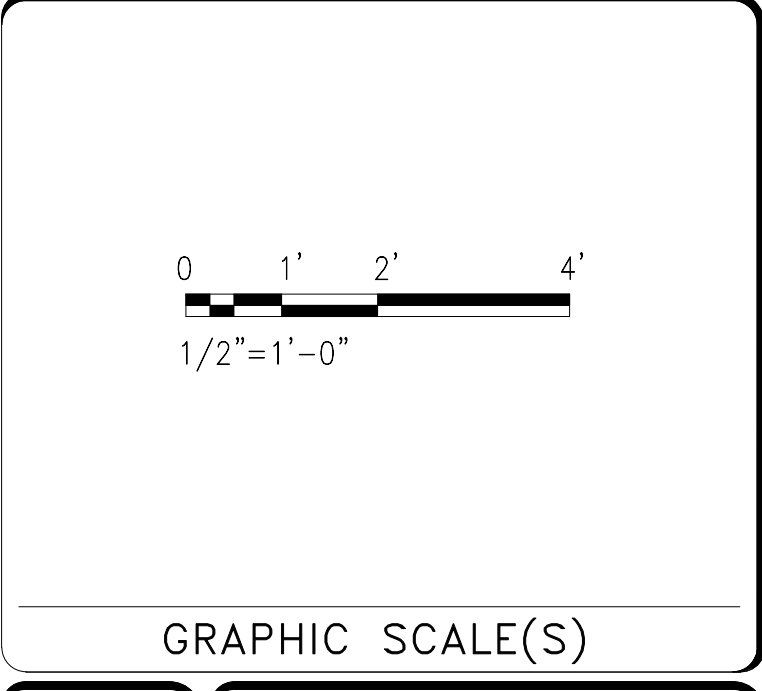
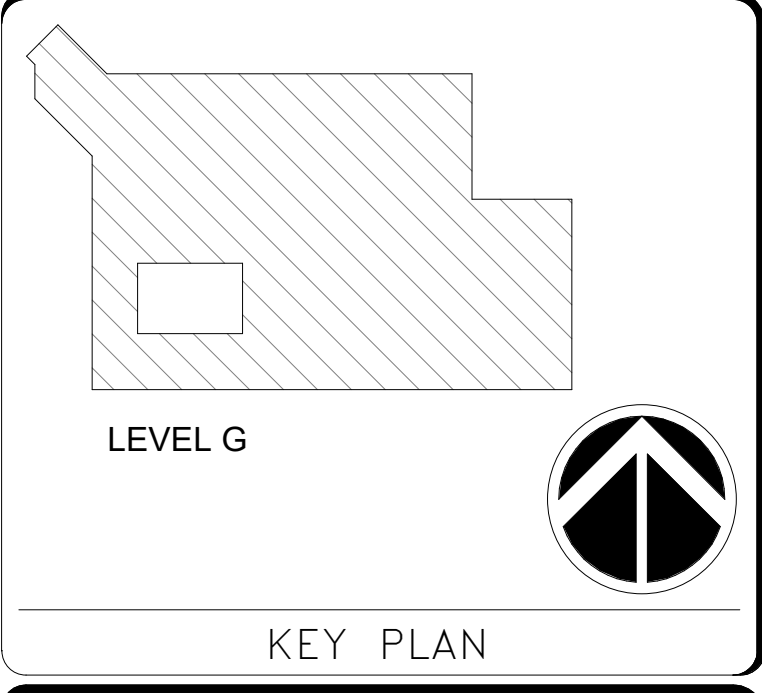


4 GALLERY 0012 - CAFE RCP
SCALE = 1/2" = 1'-0"

NOTES
1. SEE A-600 FOR MATERIAL SCHEDULES
2. SEE FOOD SERVICE SHEETS FOR EQUIPMENT LABELS



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DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	REVISION DESCRIPTION	

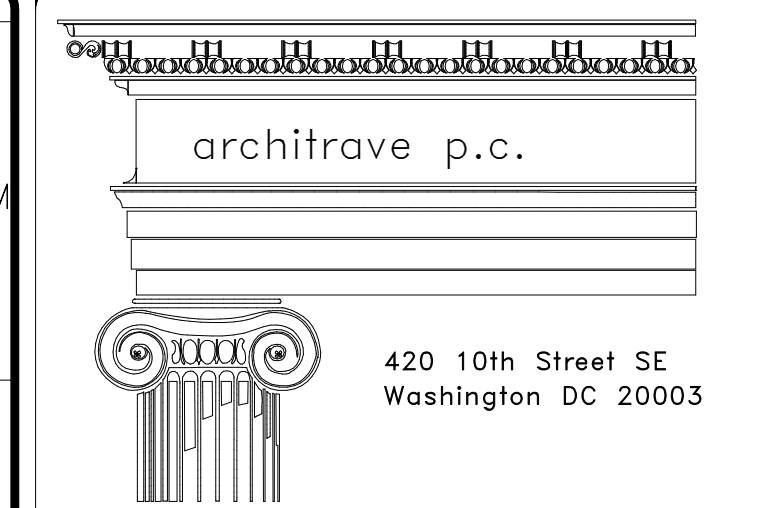


BUILDING NAME	NMAA												
ADDRESS	12th and Independence Avenue, SW, Washington DC												
PROJECT TITLE	CAFE AT SACKLER PAVILION												
SF PROJECT NUMBER	2209110												
A/E PROJECT NUMBER	1401.54												
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DESIGNED BY	NN	NN	MR										
DRAWN BY													
CHECKED BY													

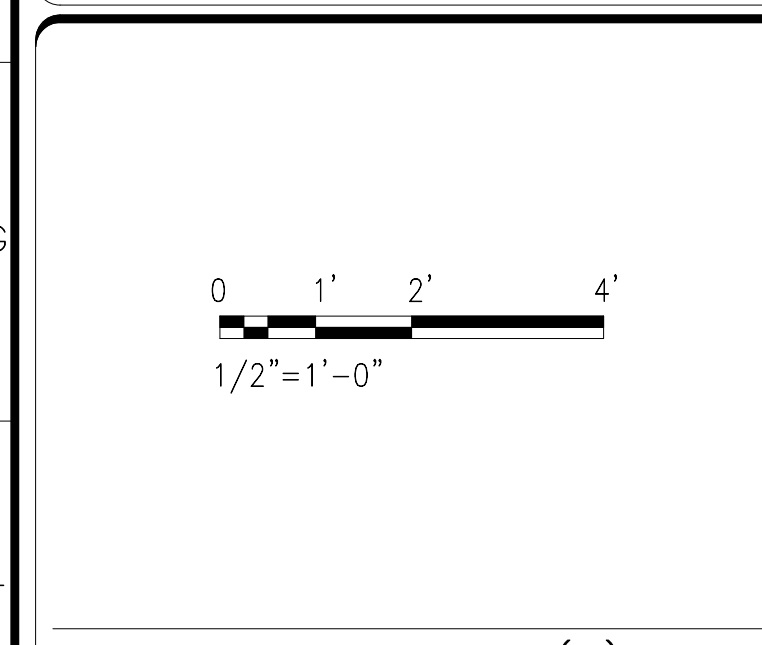
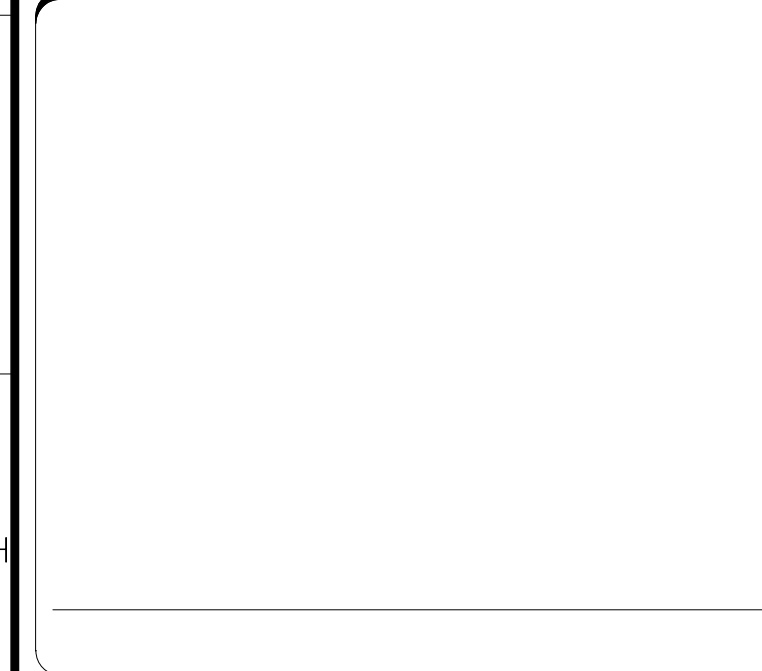
SHEET NO. **A-401**
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A-401 BY Approver 07/18/24 Final Construction Documents

NOTES
 1. SEE A-600 FOR MATERIAL SCHEDULES
 2. SEE FOOD SERVICE SHEETS FOR EQUIPMENT LABELS



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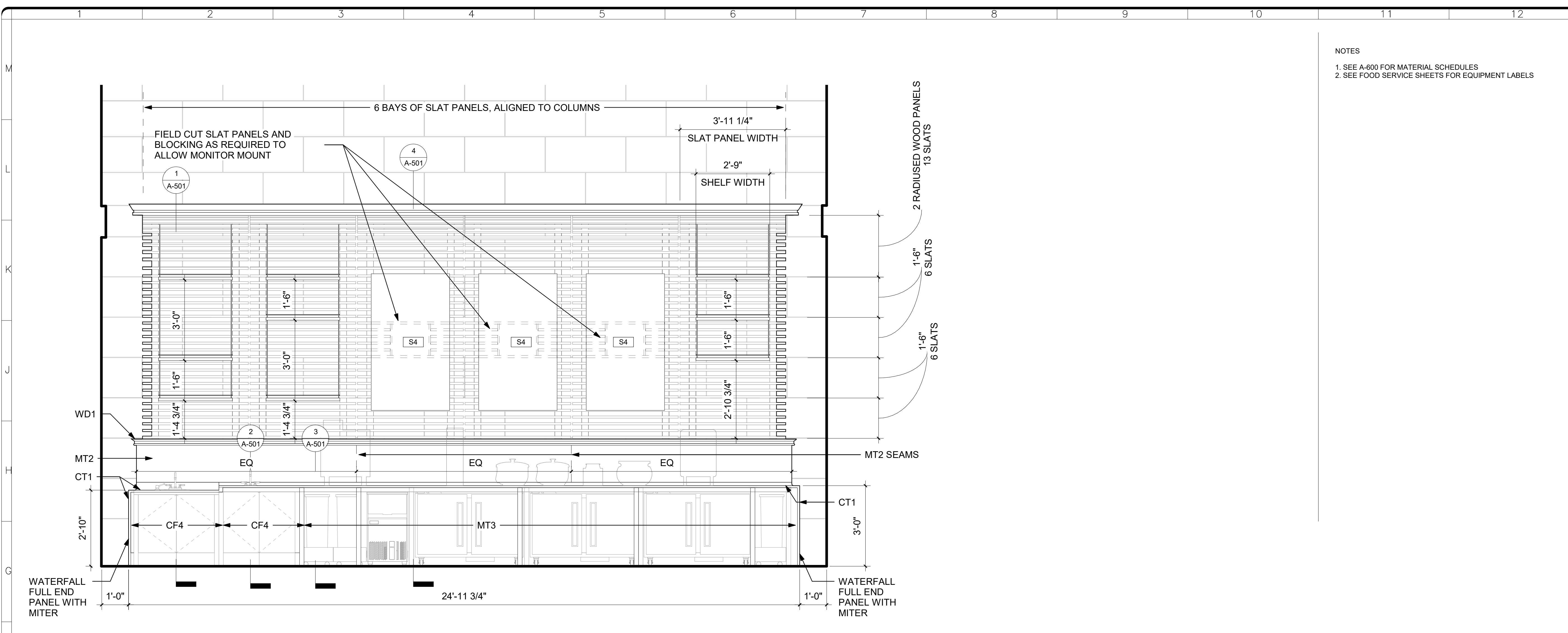


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REVISION #	DATE	REVISION DESCRIPTION	

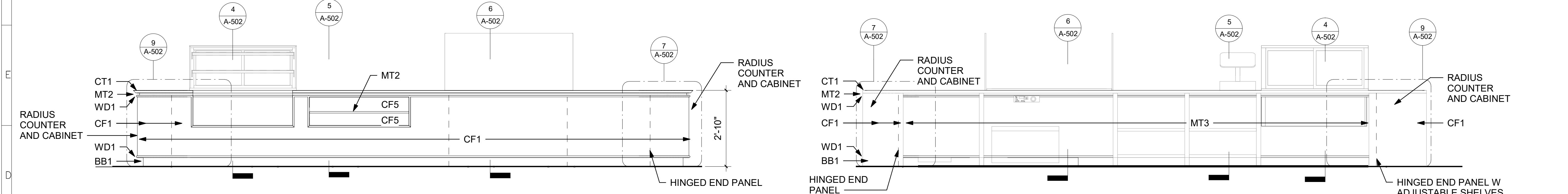
Smithsonian Institution
 Smithsonian Facilities
 600 Maryland Avenue S.W., Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	ENLARGED ELEVATIONS - CAFE
WORKING STAFF	MR NN MR

SHEET NO.	A-402
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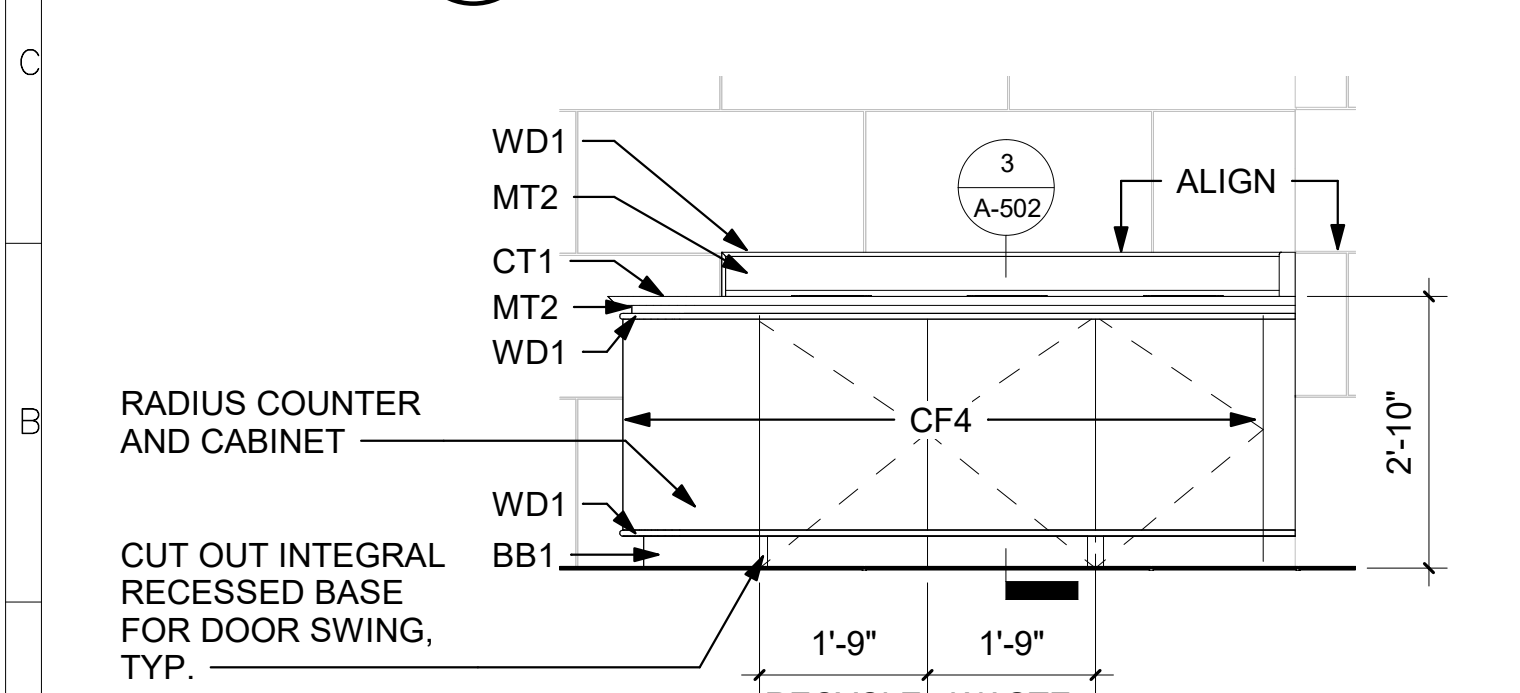


6 CAFE WEST WALL ELEVATION
 SCALE = 1/2" = 1'-0"

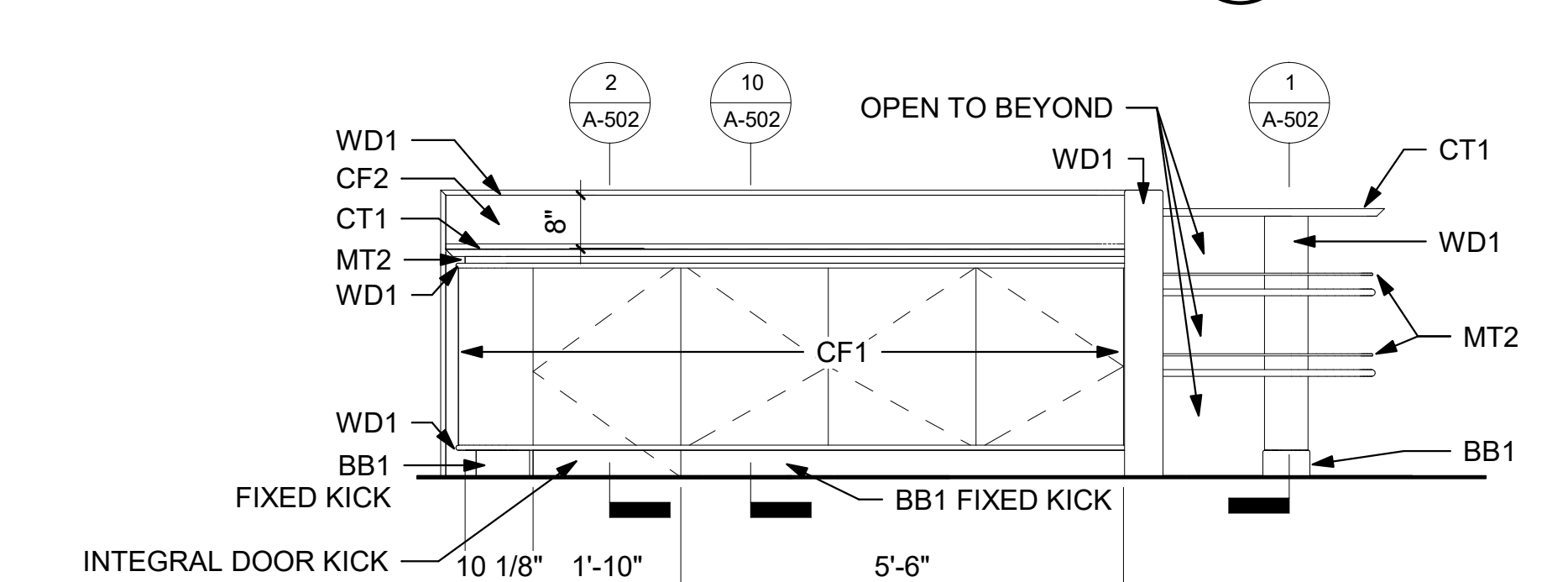


4 FRONT ELEVATION @ 1.01 SERVING COUNTER
 SCALE = 1/2" = 1'-0"

3 BACK ELEVATION @ 1.01 SERVING COUNTER
 SCALE = 1/2" = 1'-0"



2 ELEVATION @ M3 WASTE
 SCALE = 1/2" = 1'-0"



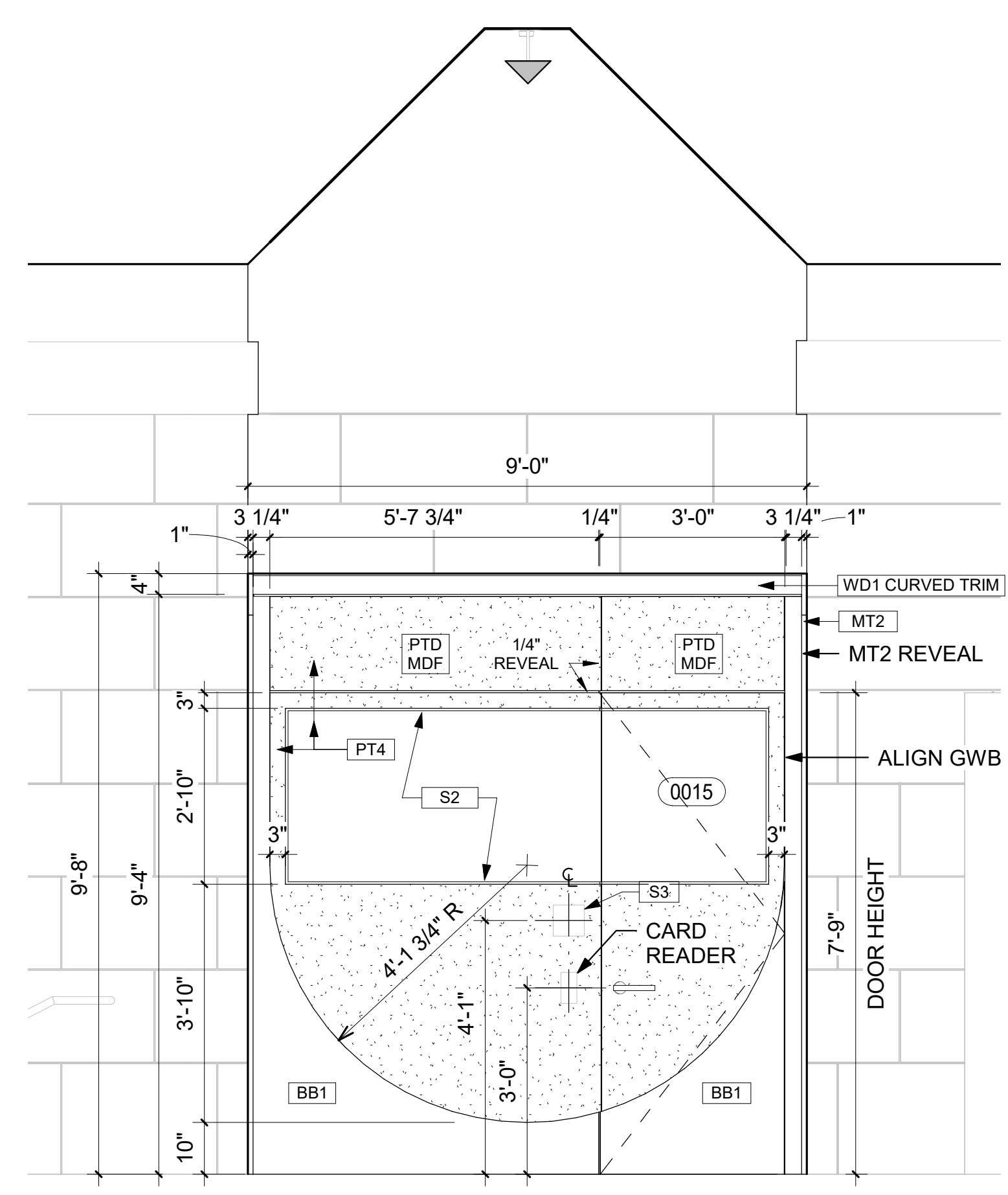
1 ELEVATION @ M4 CONDIMENTS + STORE
 SCALE = 1/2" = 1'-0"

7/18/2024 7:11:23 PM A-402 BY Approver 07/18/24 Final Construction Documents

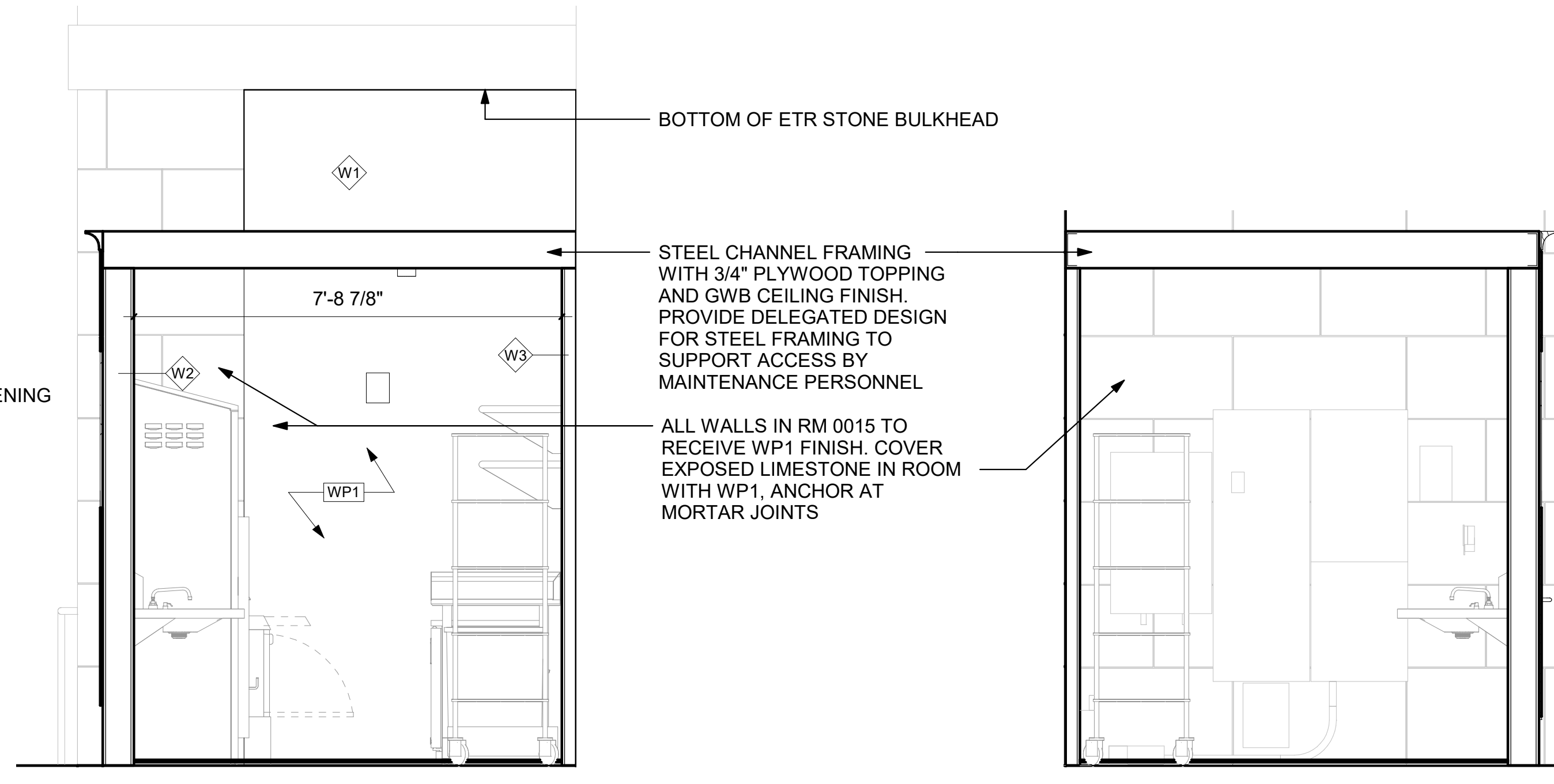
NOTES
 1. SEE A-600 FOR MATERIAL SCHEDULES
 2. SEE FOOD SERVICE SHEETS FOR EQUIPMENT INFORMATION

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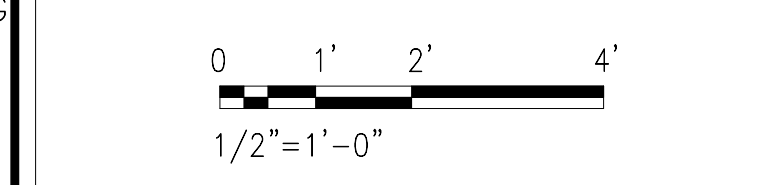


**6 PANTRY 0015 ELEVATION
 NEW WALL FROM CORRIDOR**
 SCALE = 1/2" = 1'-0"



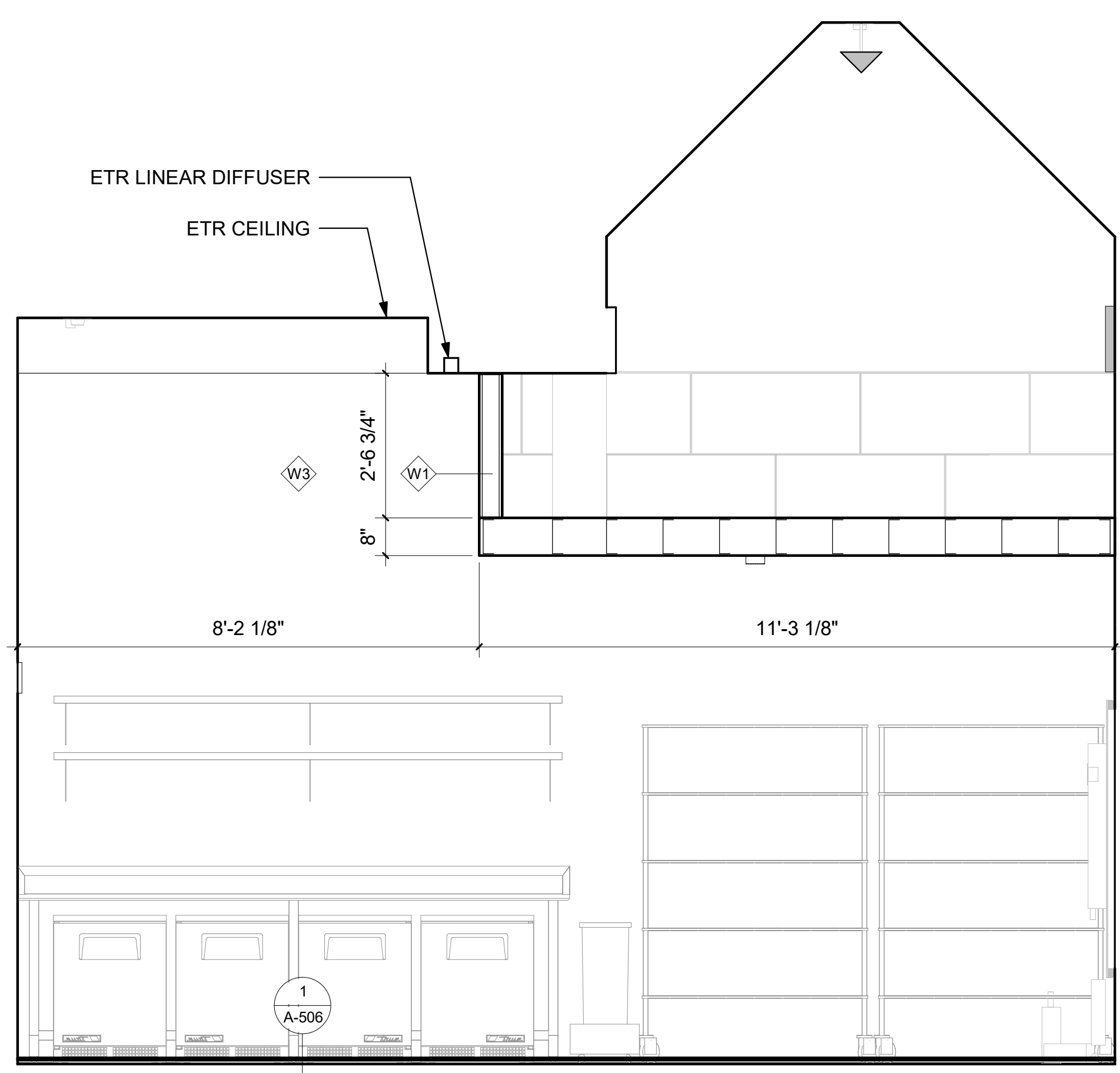
5 PANTRY 0015 EAST ELEVATION
 SCALE = 1/2" = 1'-0"

4 PANTRY 0015 WEST ELEVATION
 SCALE = 1/2" = 1'-0"

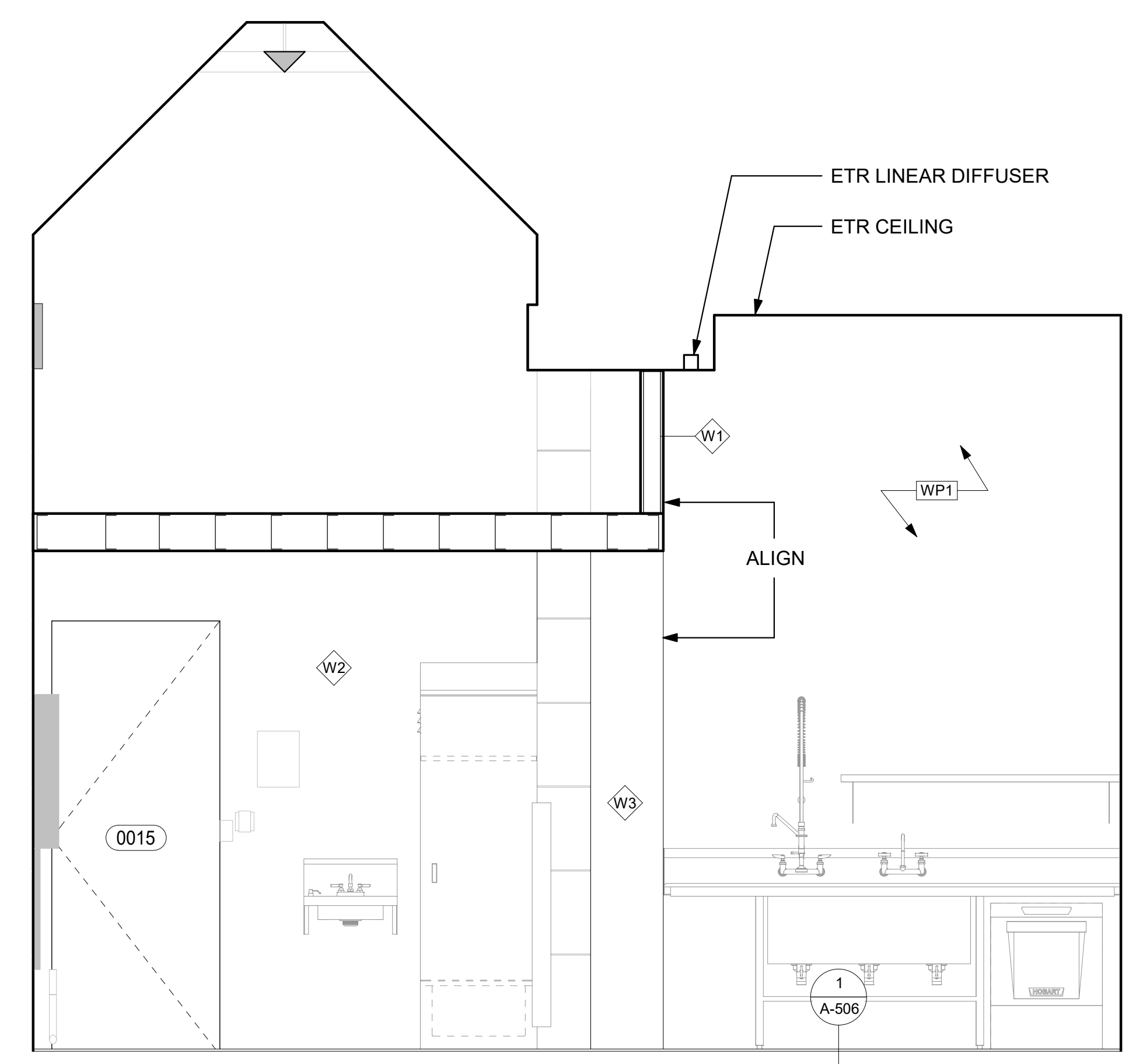


GRAPHIC SCALE(S)

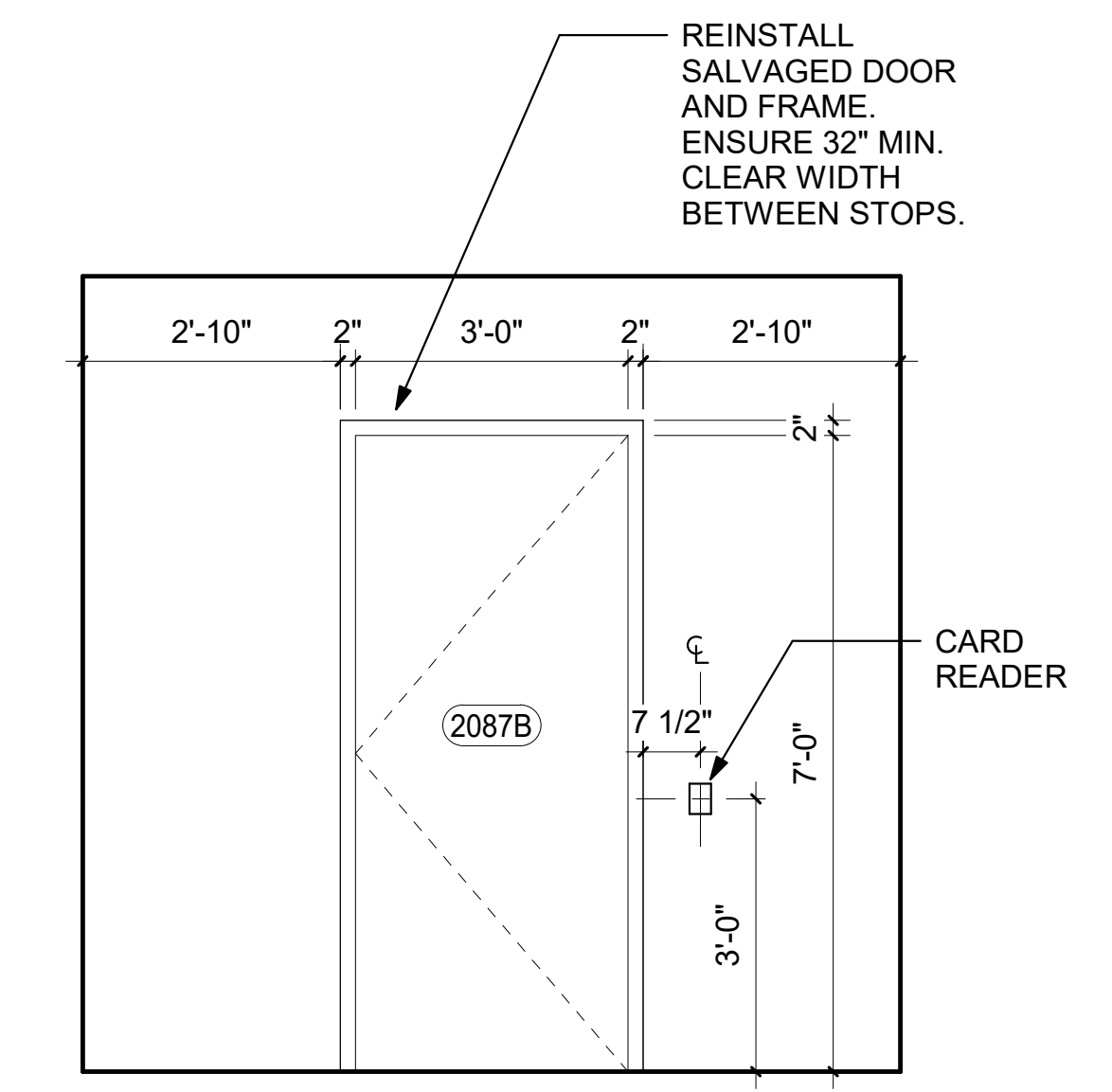
DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	DESCRIPTION	



3 PANTRY 0015 SOUTH ELEVATION
 SCALE = 1/2" = 1'-0"



2 PANTRY 0015 NORTH ELEVATION
 SCALE = 1/2" = 1'-0"



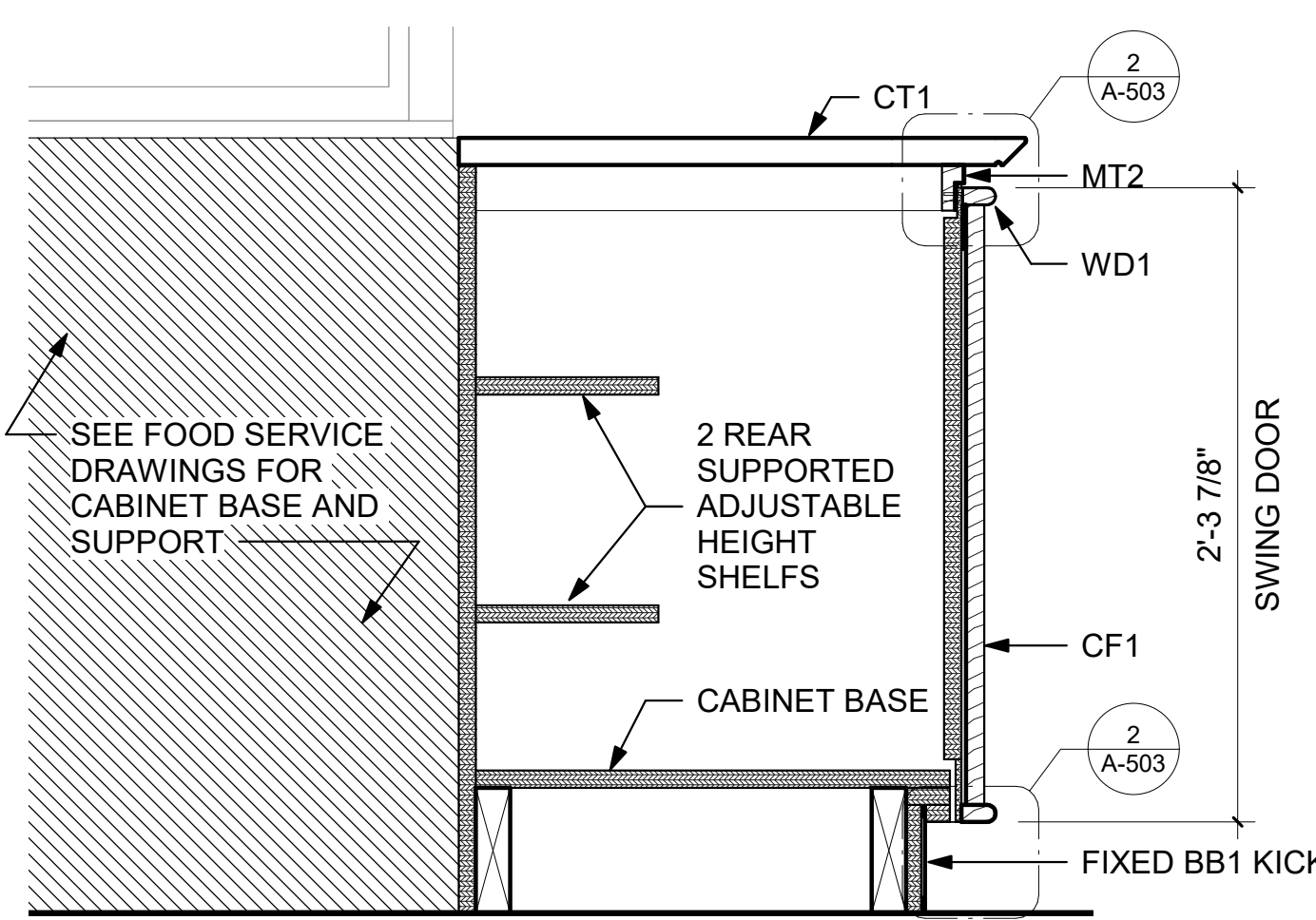
1 CASHROOM 2087A ELEVATION
 SCALE = 1/2" = 1'-0"

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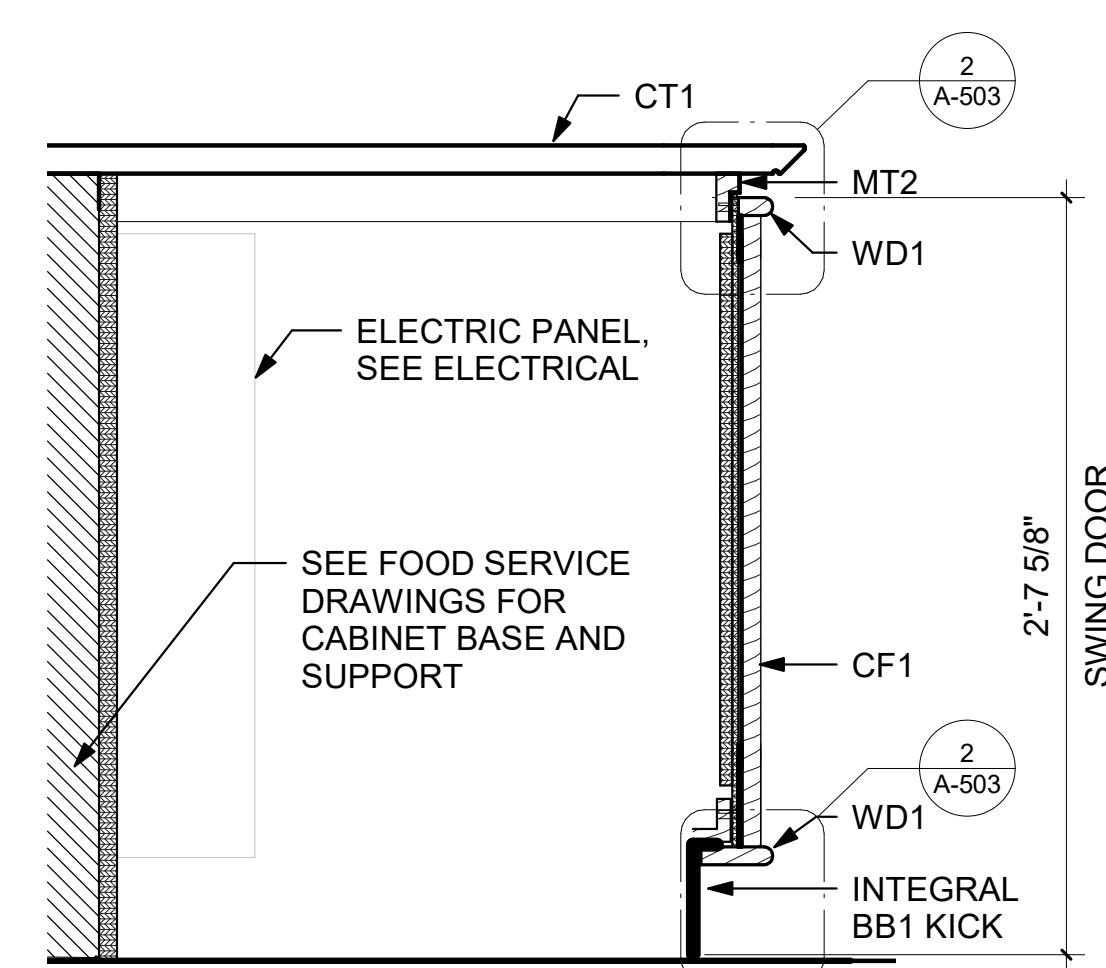
BUILDING NAME	NMAA												
ADDRESS	12th and Independence Avenue, SW, Washington DC												
PROJECT TITLE	CAFE AT SACKLER PAVILION												
SF PROJECT NUMBER	2209110												
A/E PROJECT NUMBER	1401.54												
DRAWING TITLE	ENLARGED ELEVATIONS - BOH												
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>NN</td> <td>NN</td> <td>MR</td> </tr> <tr> <td>DRAWN BY</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> <td></td> <td></td> </tr> </table>	DESIGNED BY	NN	NN	MR	DRAWN BY				CHECKED BY			
DESIGNED BY	NN	NN	MR										
DRAWN BY													
CHECKED BY													

SHEET NO. **A-403**
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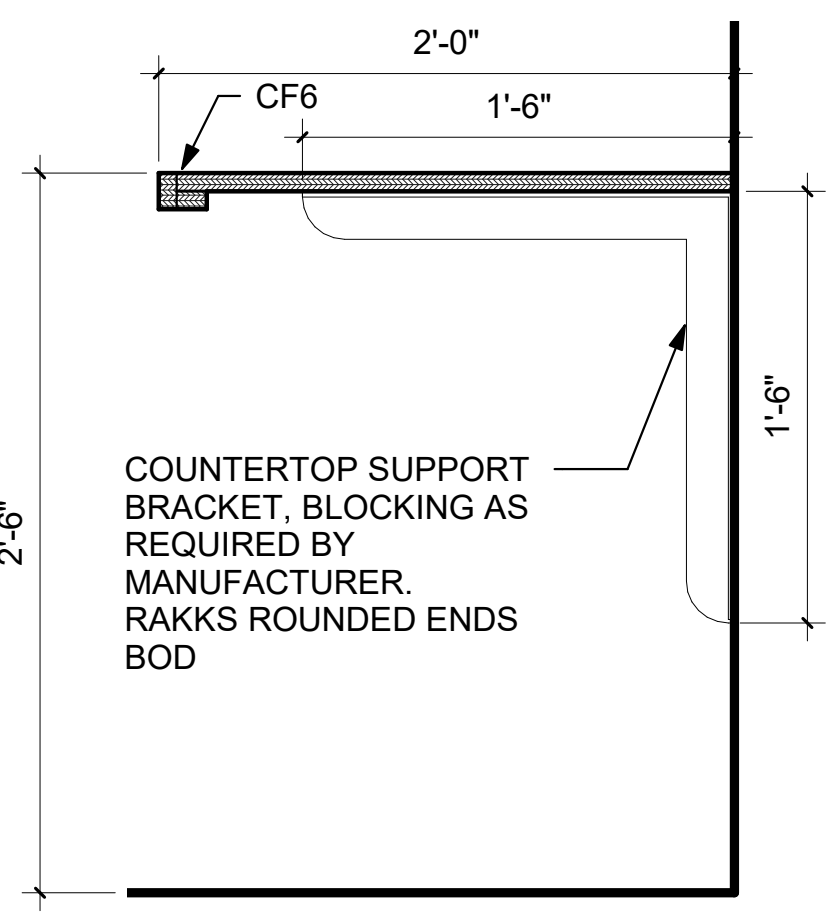
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9 1.01 - SECTION AT SOUTH DOOR
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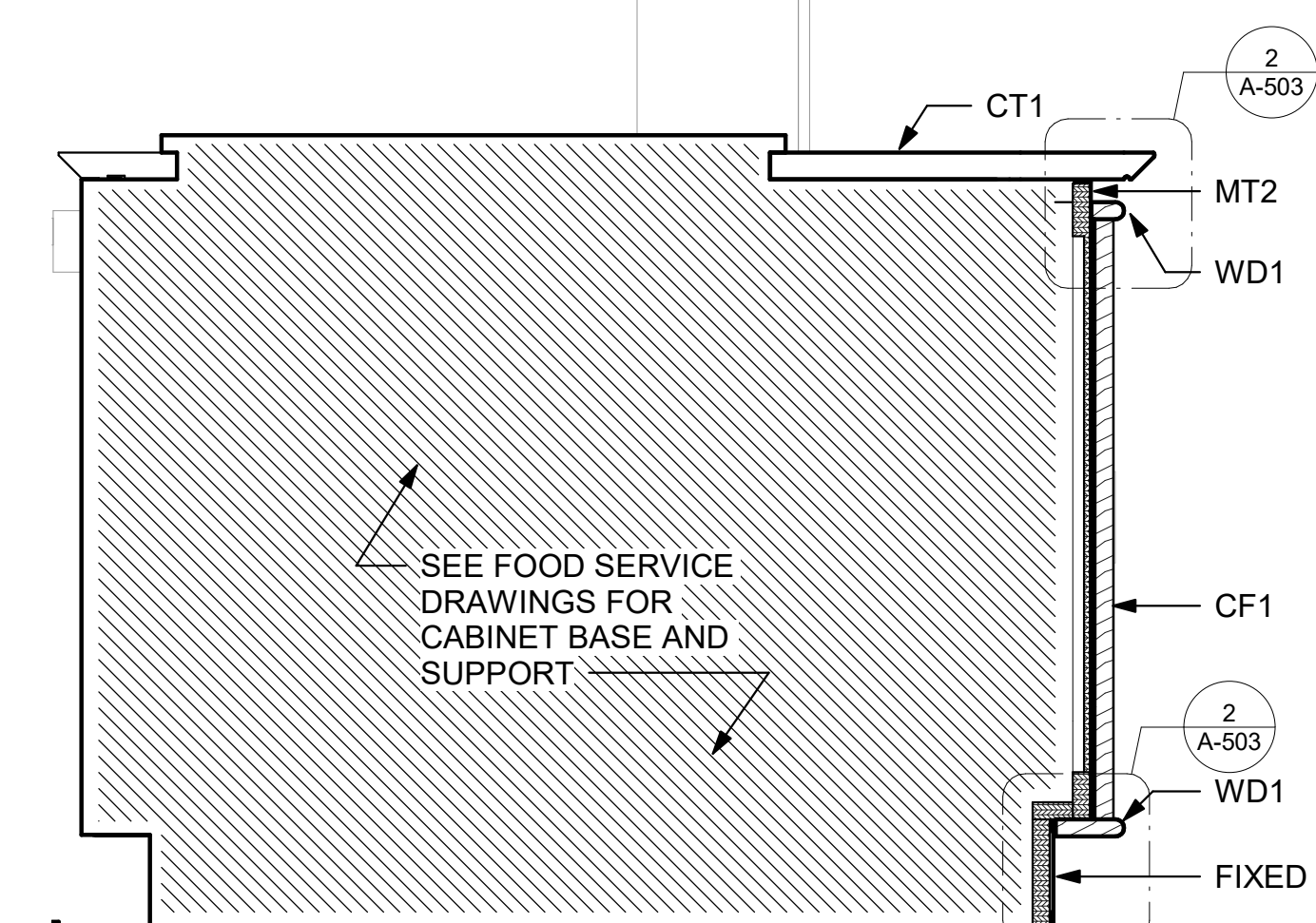


7 1.01 - SECTION AT NORTH DOOR
A-401/A-502 SCALE = 1 1/2" = 1'-0"

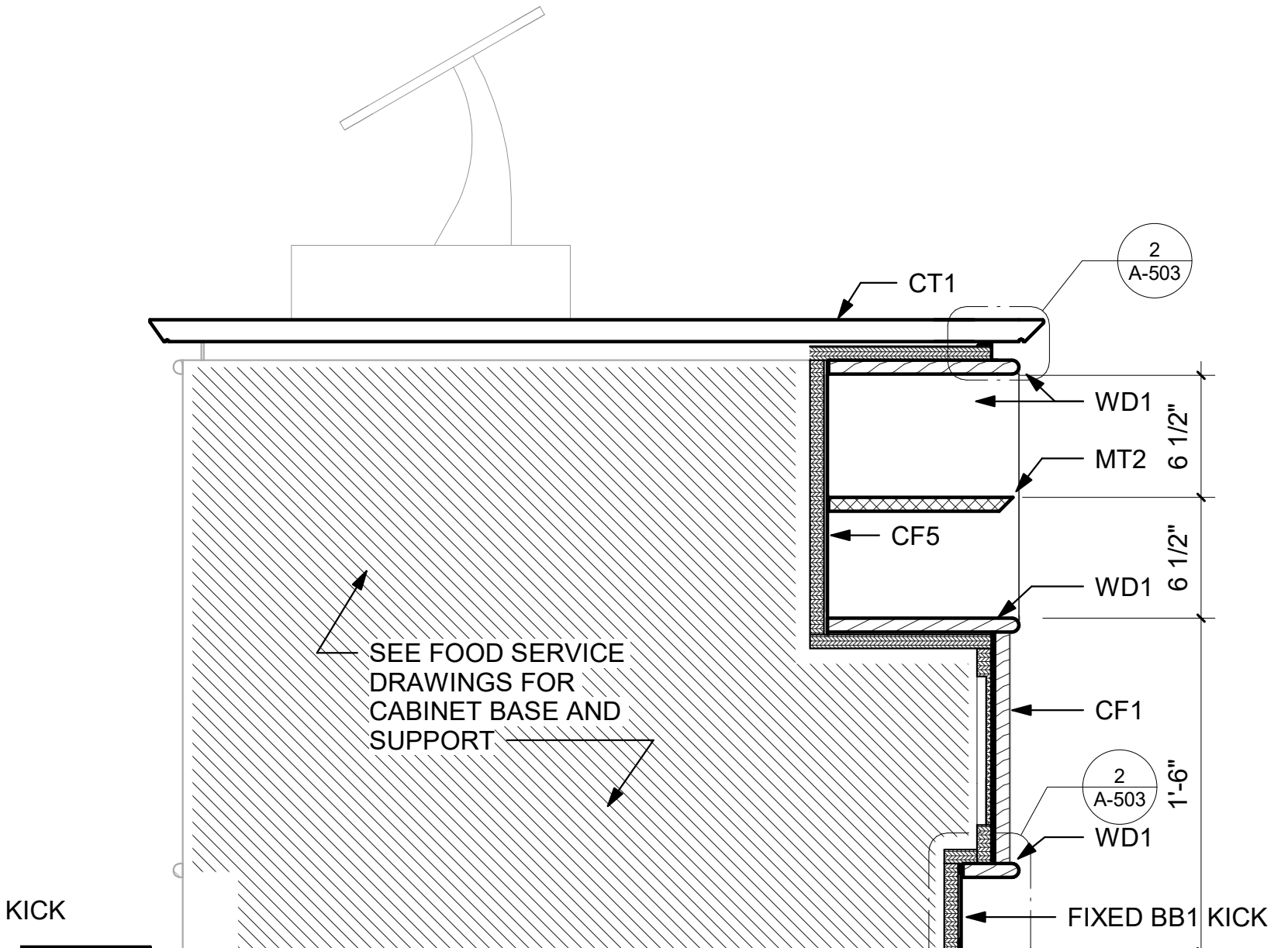


8 CASHROOM DESK
A-108/A-502 SCALE = 1 1/2" = 1'-0"

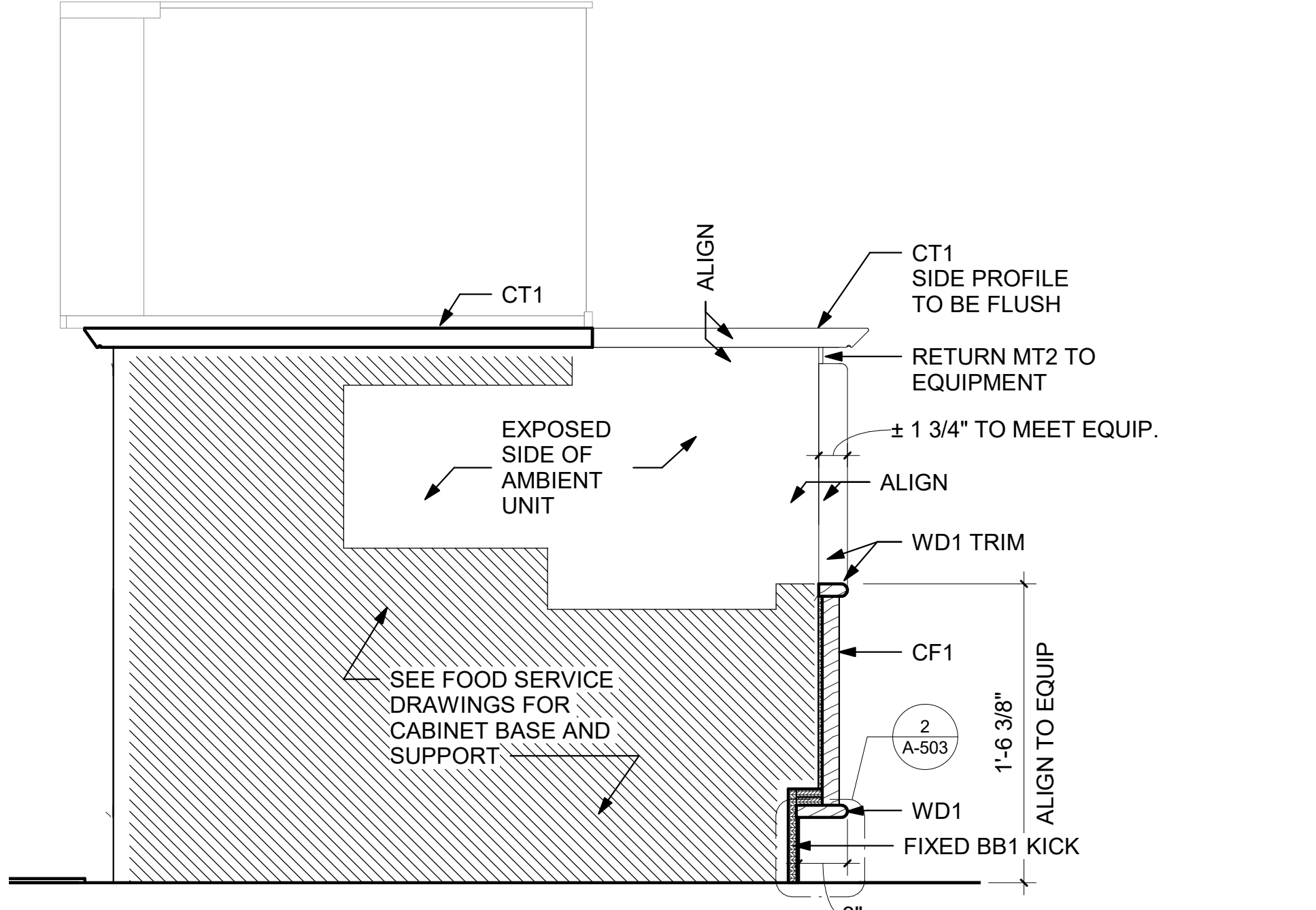
- TYPICAL MILLWORK NOTES:**
1. SEALANT AT ALL JOINTS OR SEAMS BETWEEN MATERIALS LESS THAN 1/4", UNLESS NOTED AS REVEAL.
 2. ALL FASTENERS NOT SPECIFICALLY IDENTIFIED ARE TO BE CONCEALED OR BLIND
 3. ALL GLUE COMPOSITES ARE TO BE BOTH BISCUITS AND GLUE. NO ELEMENTS TO RELY SOLELY ON ADHESIVES.
 4. INSTALL SHELVES TO BE PLUM AND LEVEL RELATIVE TO THE SPACE AND EACH OTHER. REVIEW INSTALL WITH COTR PRIOR TO USING LOCTITE OR OTHER NON-REVERSIBLE THREAD TREATMENTS.
 5. ALL VISIBLE FASTENERS, NUTS, WASHERS, AND MSC MTL HARDWARE TO BE COPPER UNLESS OTHERWISE NOTED.
 6. INCLUDED HARDWARE MATERIAL SCHEDULE IN THE MILLWORK SHOP DRAWING
 7. ANCHORS SHOWN FOR DESIGN INTENT AND BIDDING. FINAL SELECTION IS THE RESPONSIBILITY OF MILLWORK DELEGATED DESIGN PACKAGE



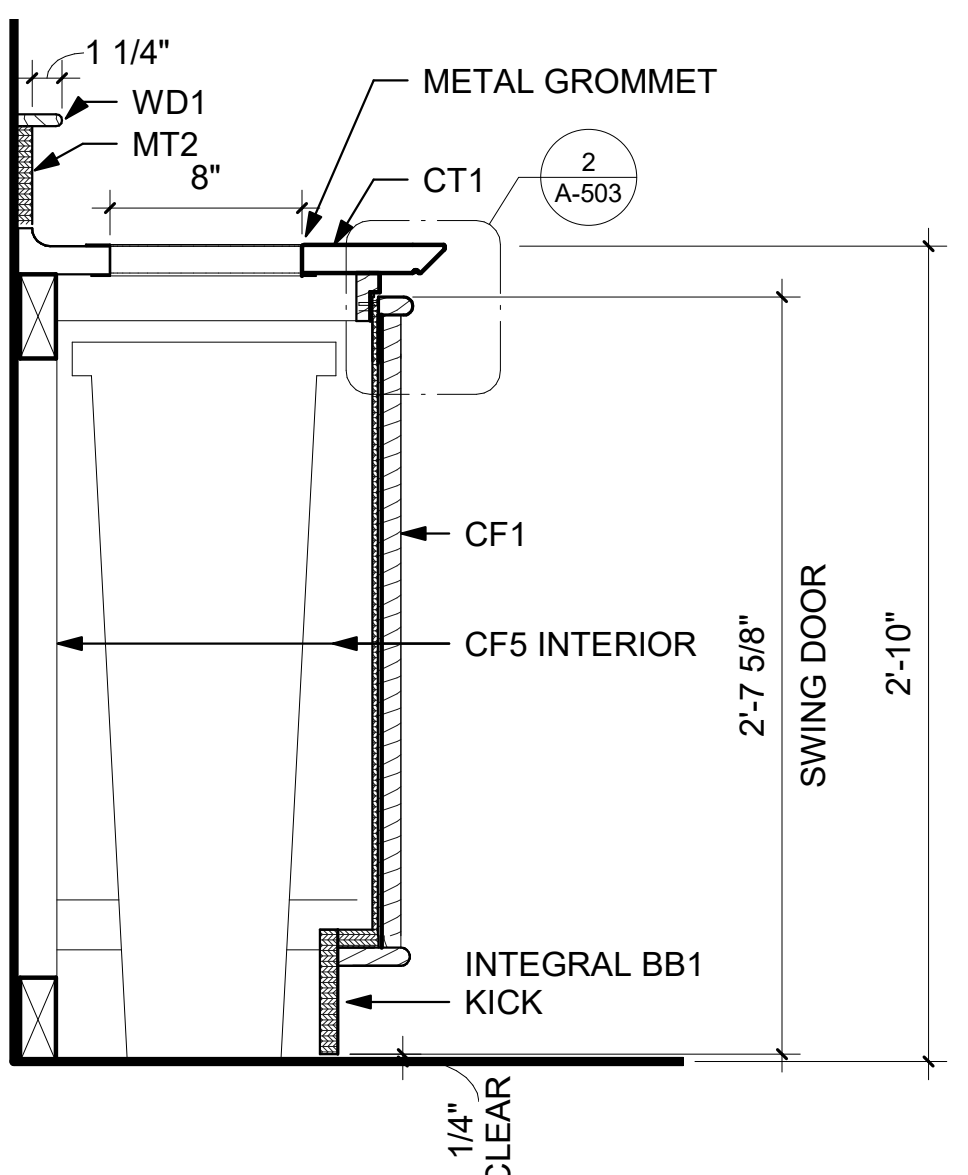
6 1.01 - SECTION AT FOOD WELLS
A-402/A-502 SCALE = 1 1/2" = 1'-0"



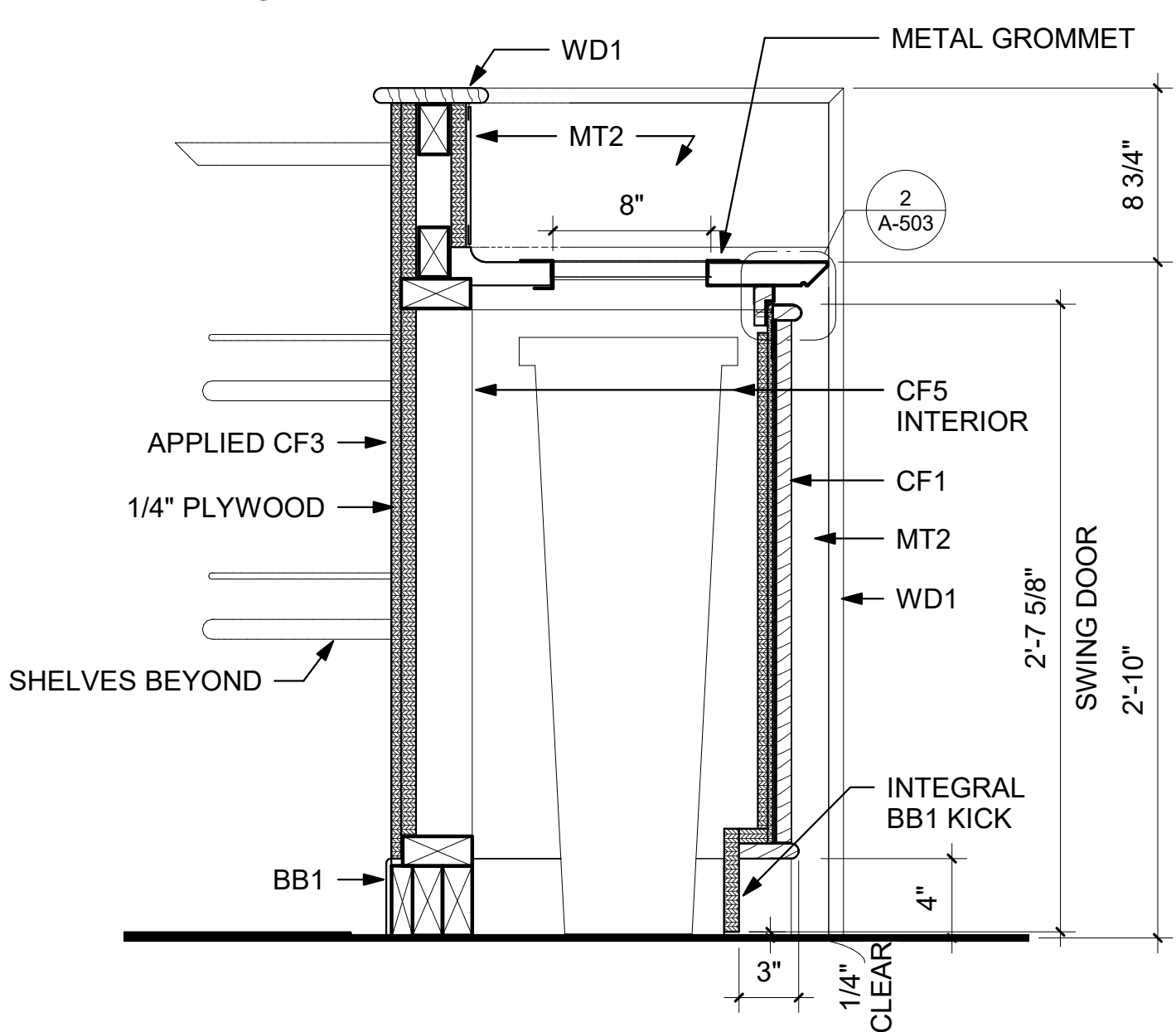
5 1.01 - SECTION AT GRAB AND GO
A-402/A-502 SCALE = 1 1/2" = 1'-0"



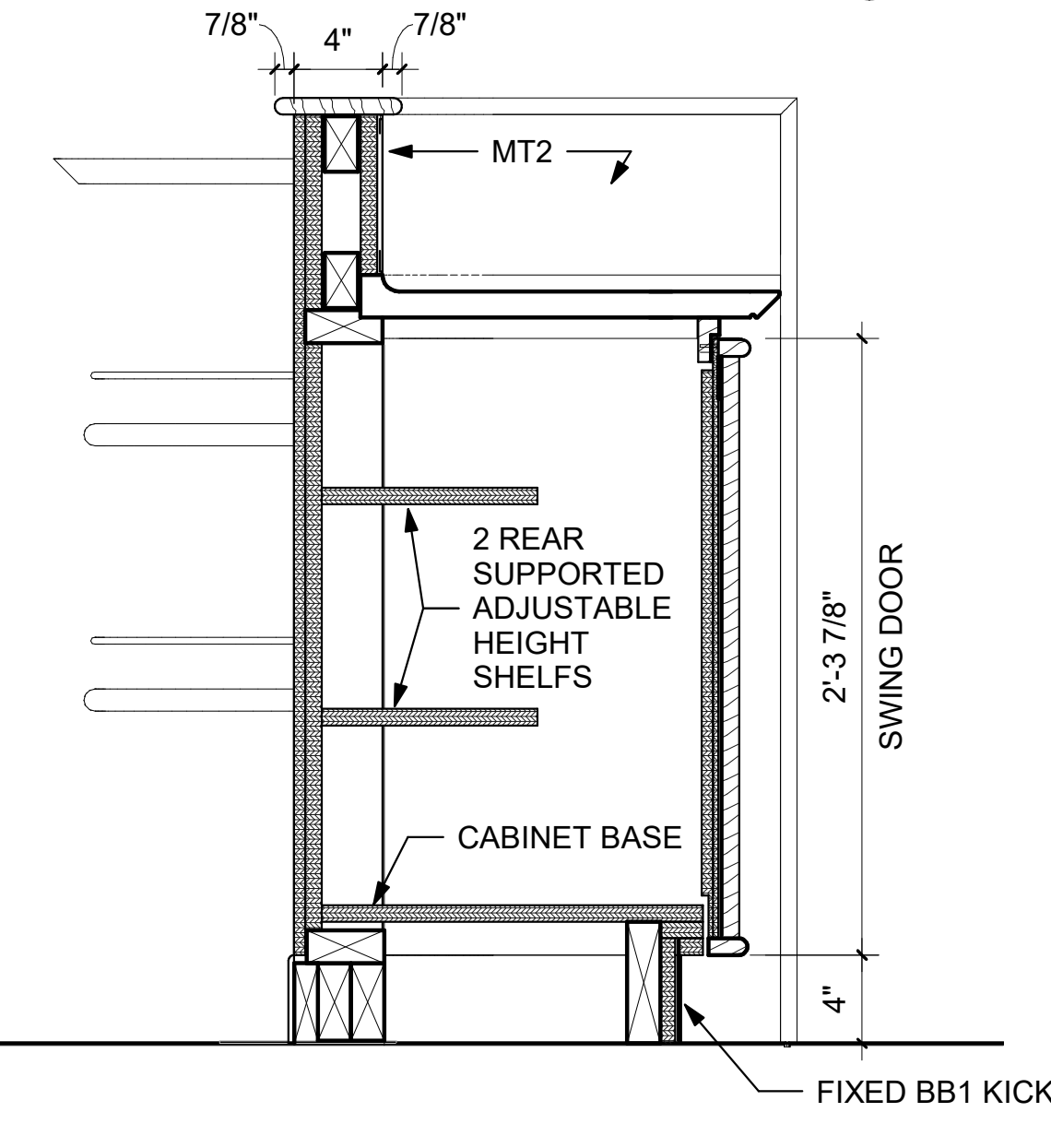
4 1.01 - SECTION AT AMBIENT UNIT
A-402/A-502 SCALE = 1 1/2" = 1'-0"



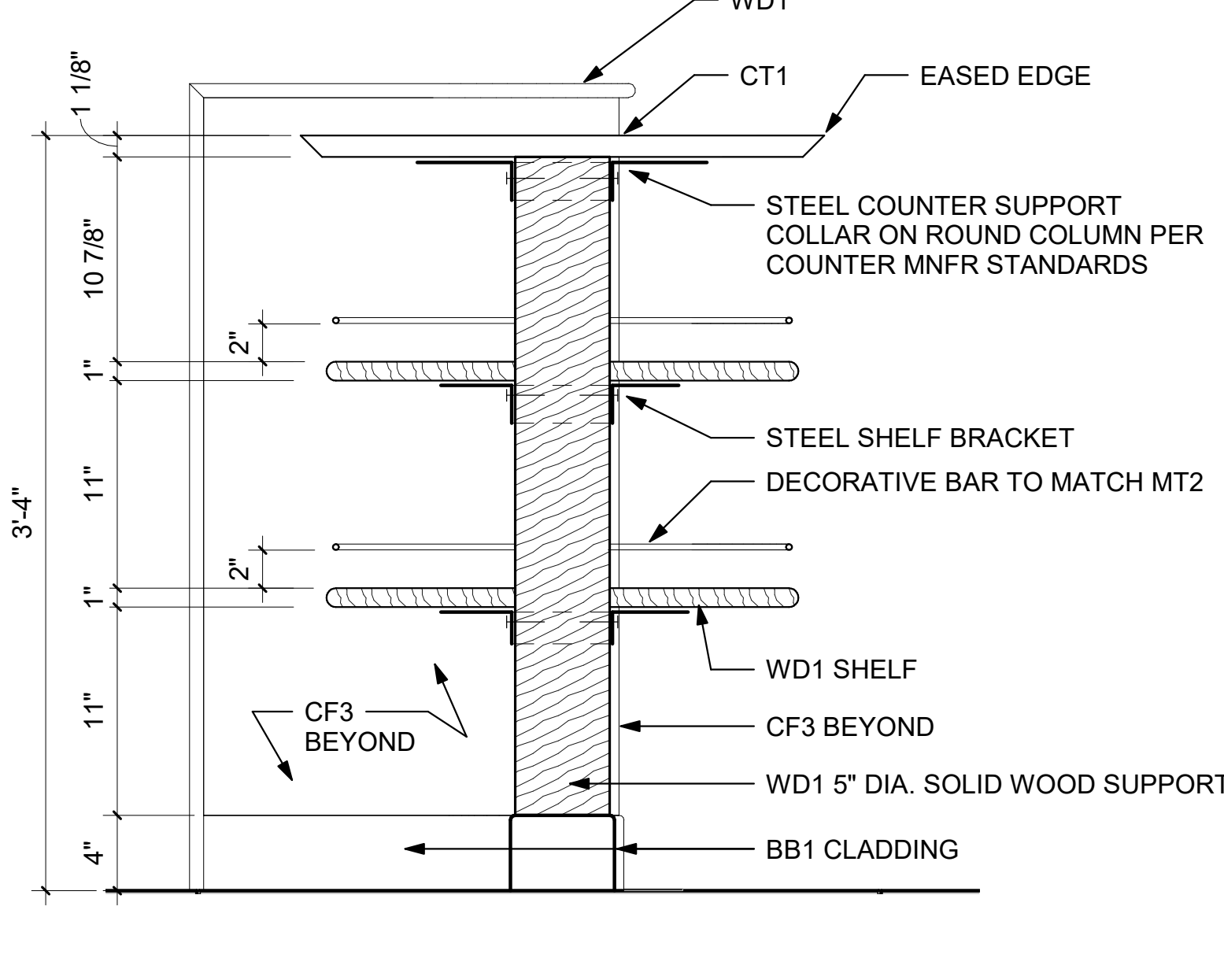
3 M3 - WASTE COUNTER SECTION
A-202/A-502 SCALE = 1 1/2" = 1'-0"



2 M4 - CONDIMENTS SECTION A
A-201/A-502 SCALE = 1 1/2" = 1'-0"



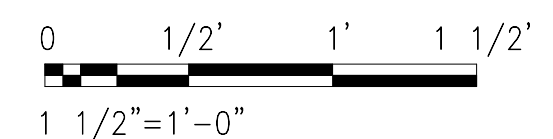
10 M4 - CONDIMENTS SECTION B
A-402/A-502 SCALE = 1 1/2" = 1'-0"



1 M4 - CONDIMENTS SECTION C - STORE
A-402/A-502 SCALE = 1 1/2" = 1'-0"



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GRAPHIC SCALE(S)

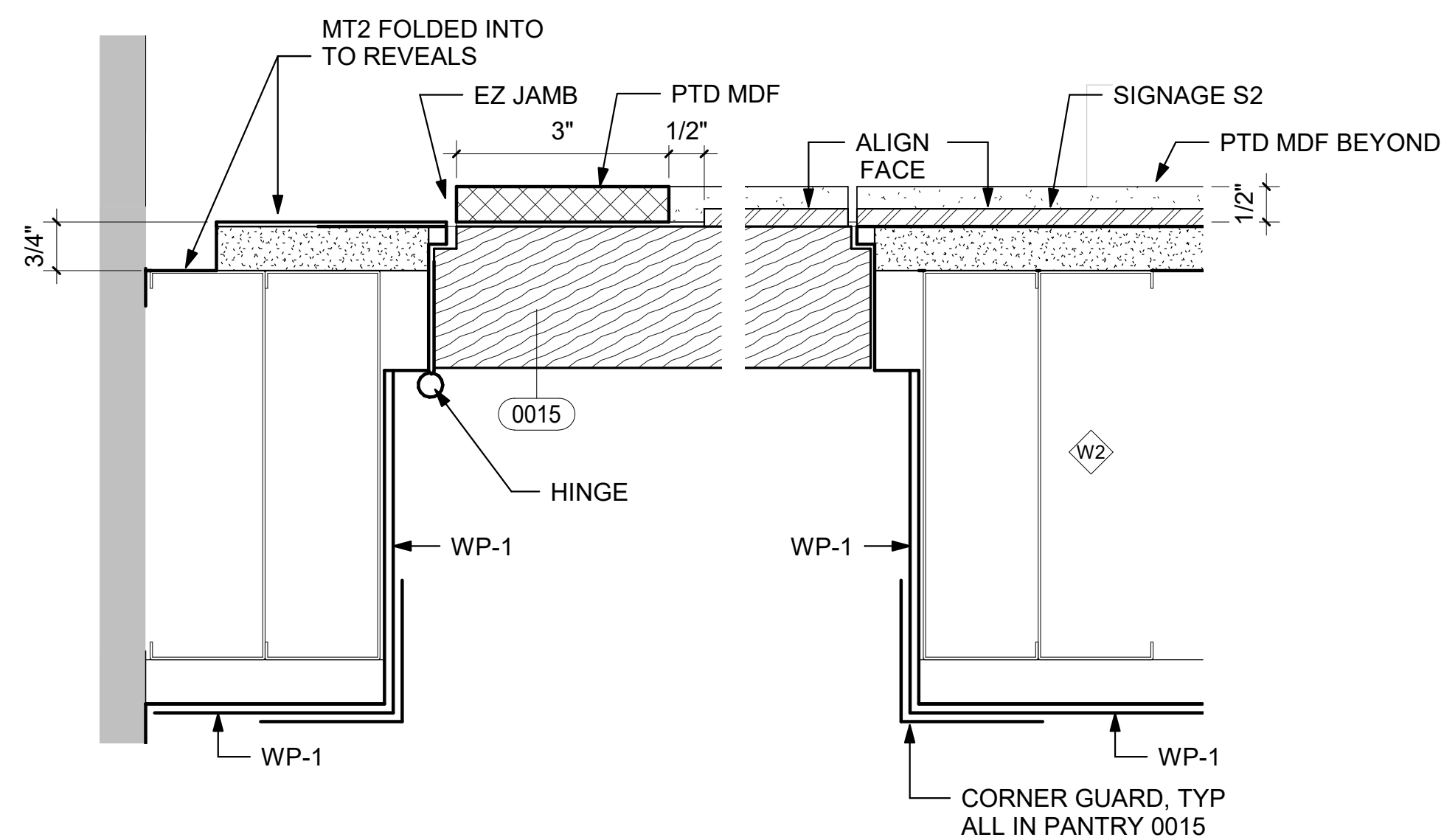
DATE	07/18/24	REVISION #	1
DESCRIPTION	Final Construction Documents	REVISION DESCRIPTION	



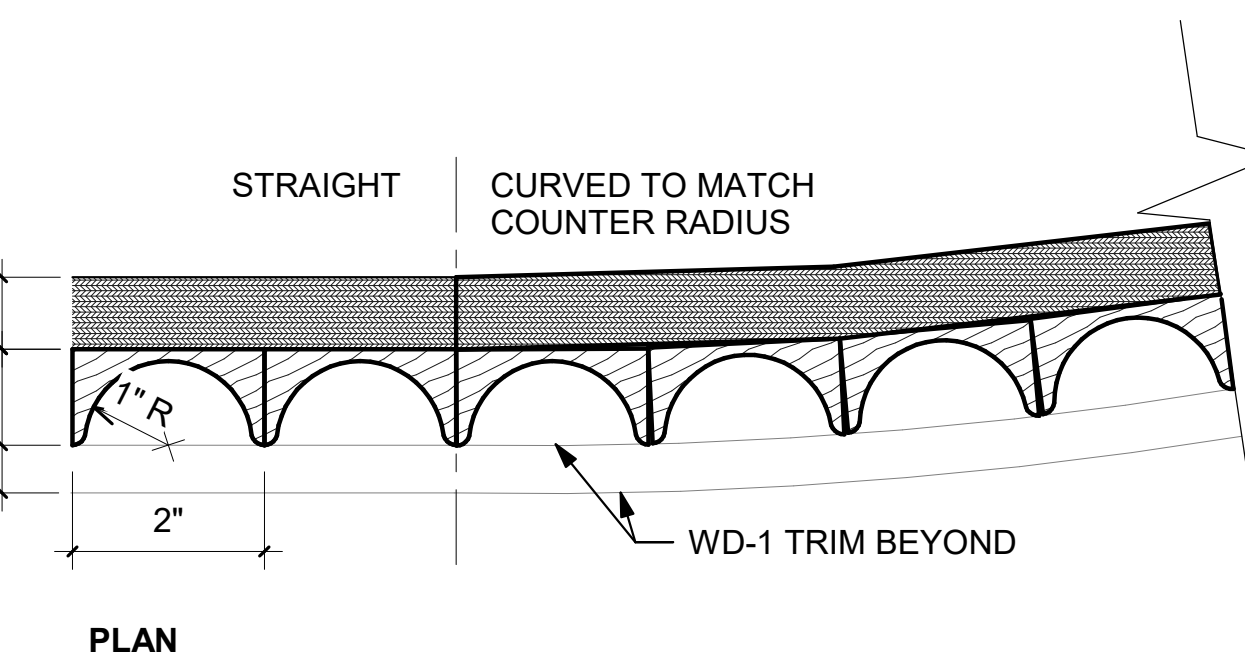
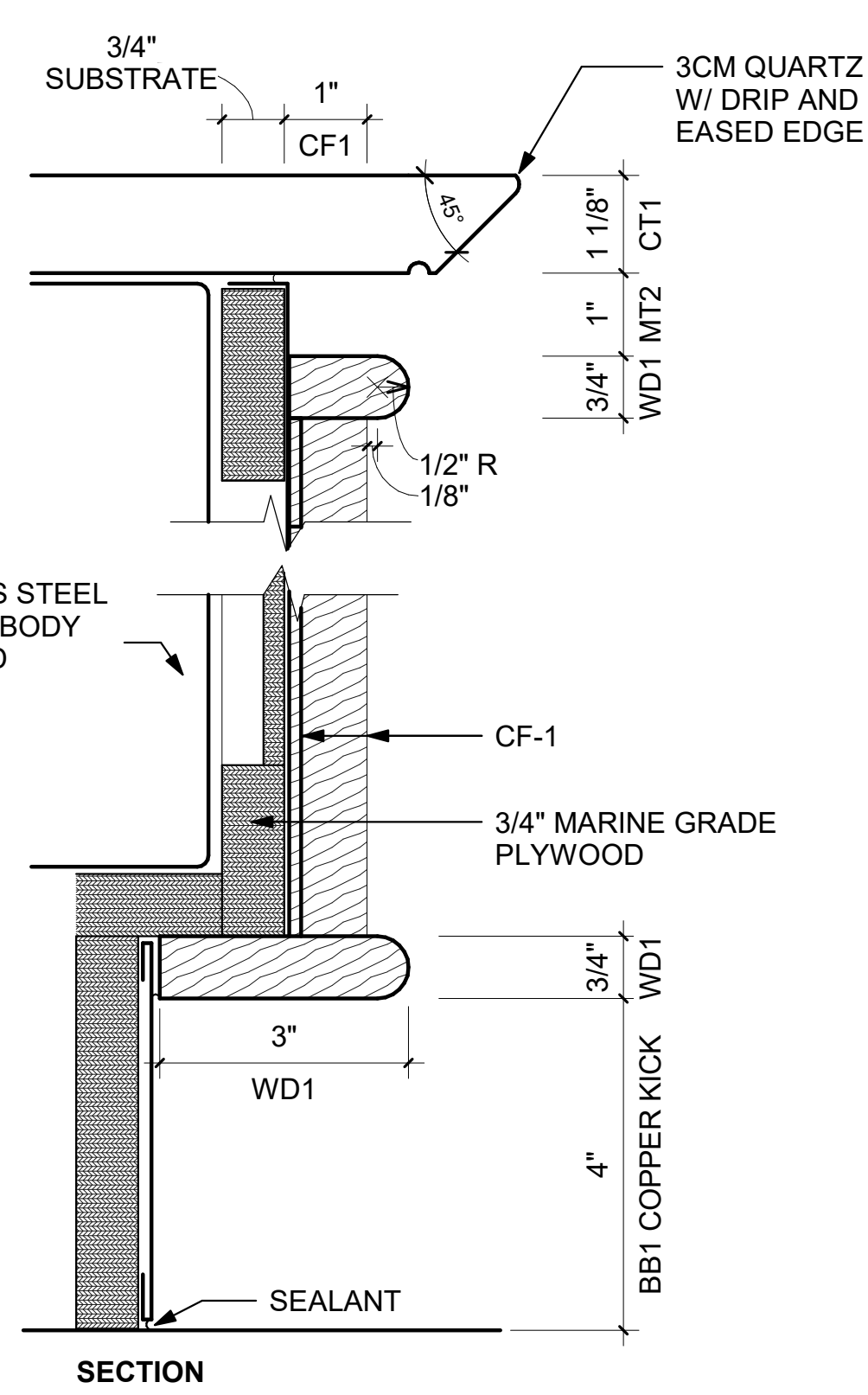
BUILDING NAME	NMAA						
ADDRESS	12th and Independence Avenue, SW, Washington DC						
PROJECT TITLE	CAFE AT SACKLER PAVILION						
SF PROJECT NUMBER	2209110						
A/E PROJECT NUMBER	1401.54						
DRAWING TITLE	MILLWORK SECTIONS - CAFE						
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>NN</td> <td>DRAWN BY</td> <td>NN</td> <td>CHECKED BY</td> <td>MR</td> </tr> </table>	DESIGNED BY	NN	DRAWN BY	NN	CHECKED BY	MR
DESIGNED BY	NN	DRAWN BY	NN	CHECKED BY	MR		

SHEET NO. **A-502**
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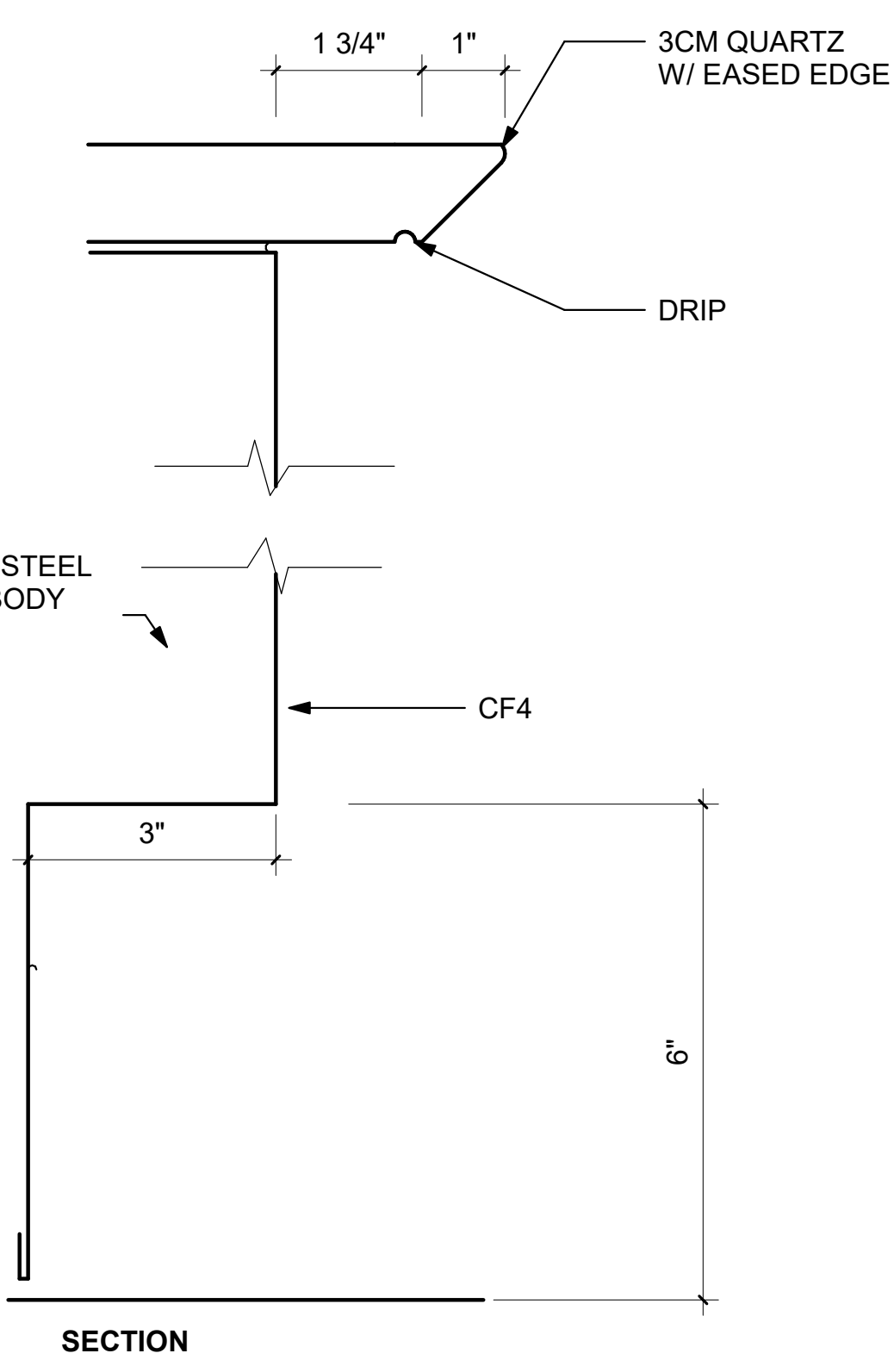
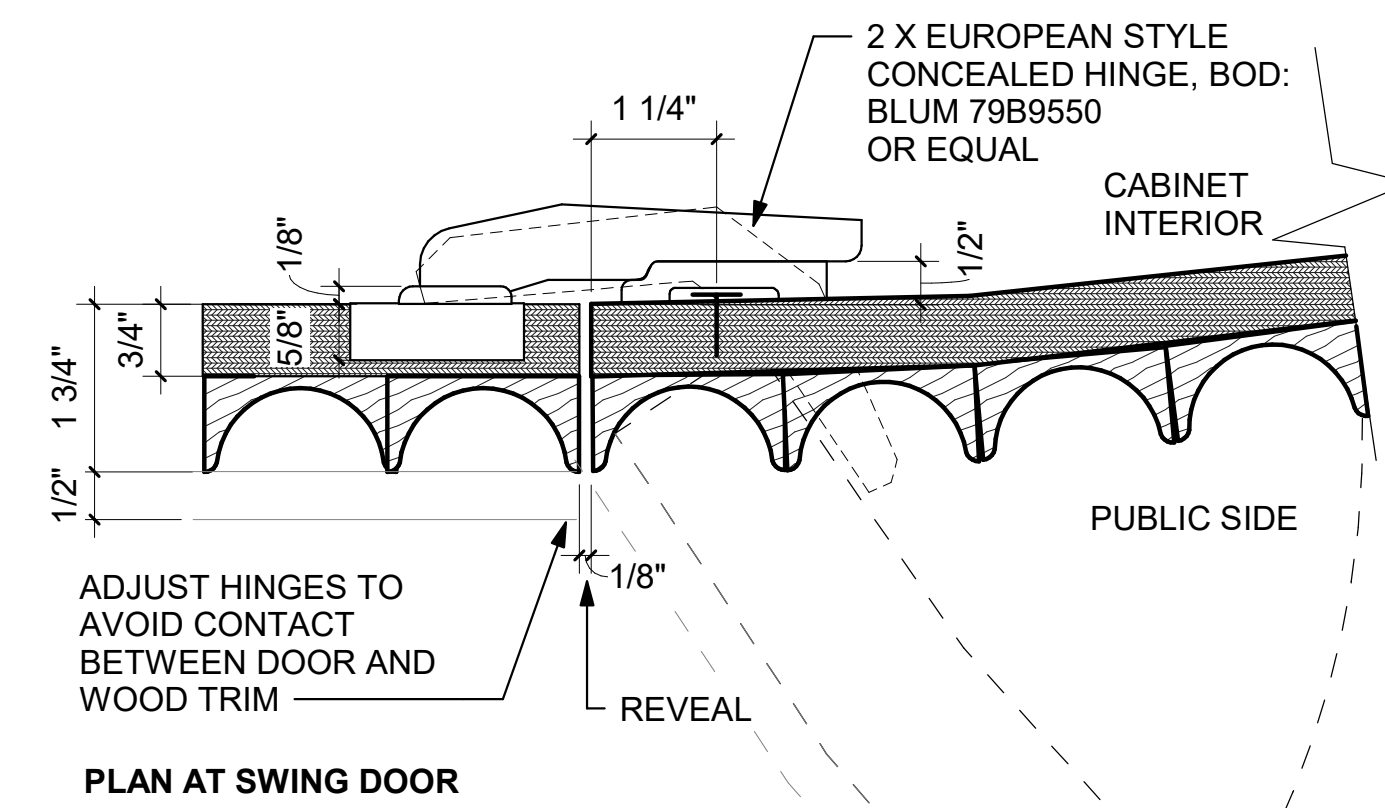
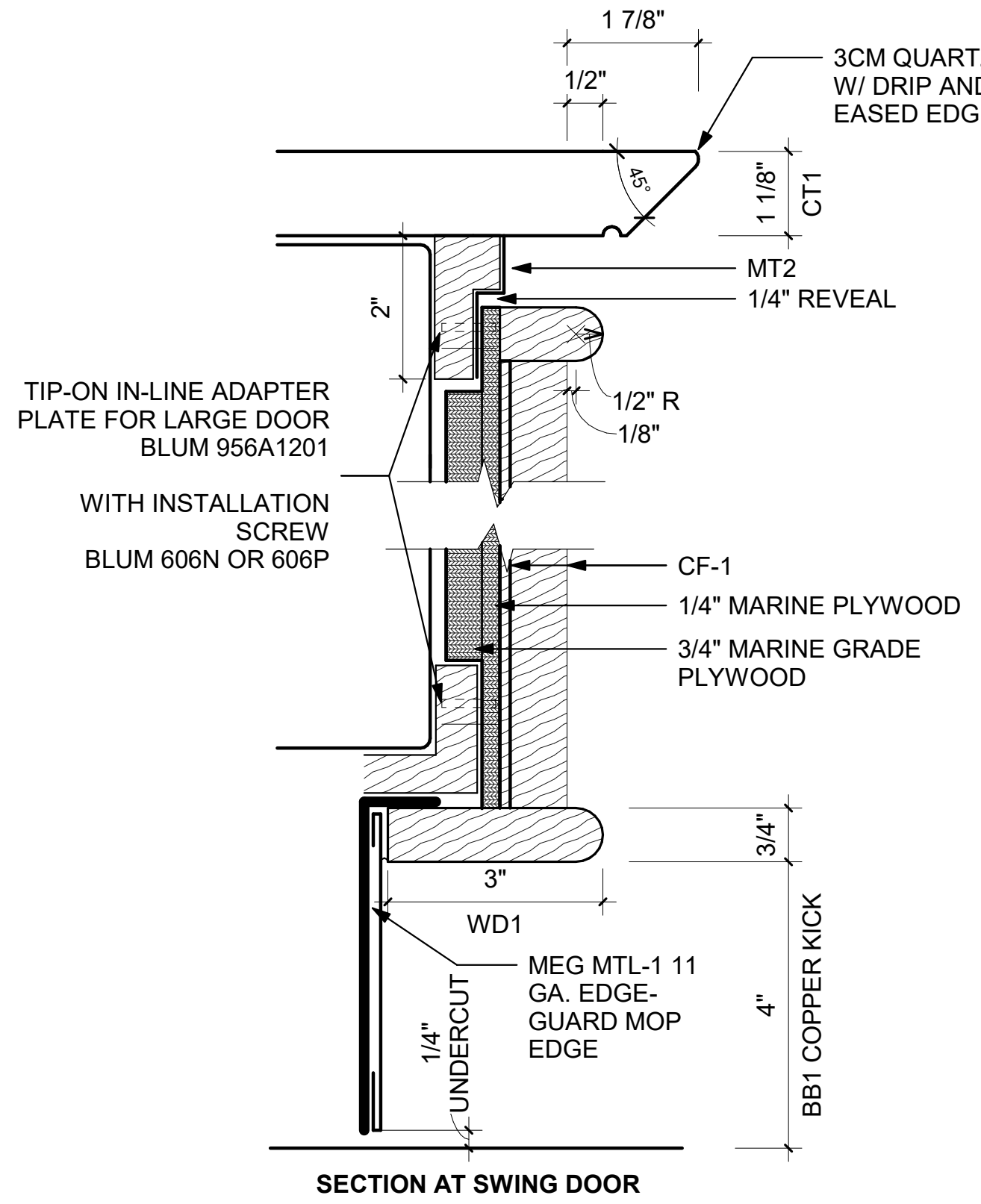
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3 PANTRY DOOR 0015 JAMB
SCALE = 6" = 1'-0"

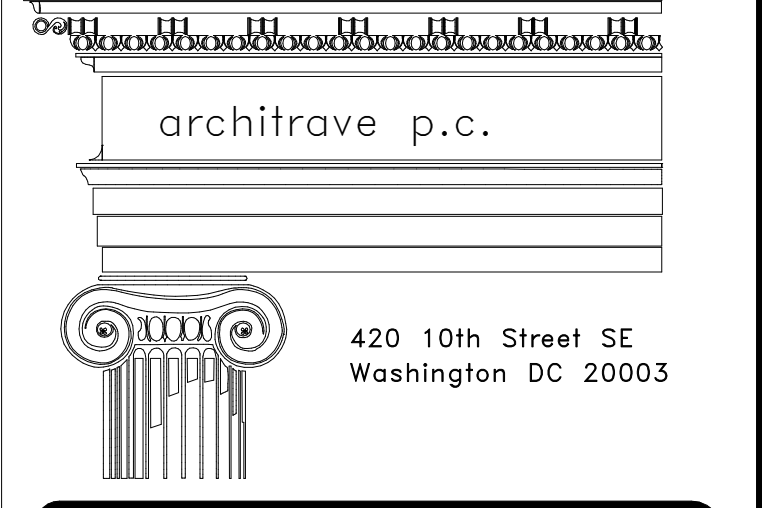


2 CF1 DETAILS
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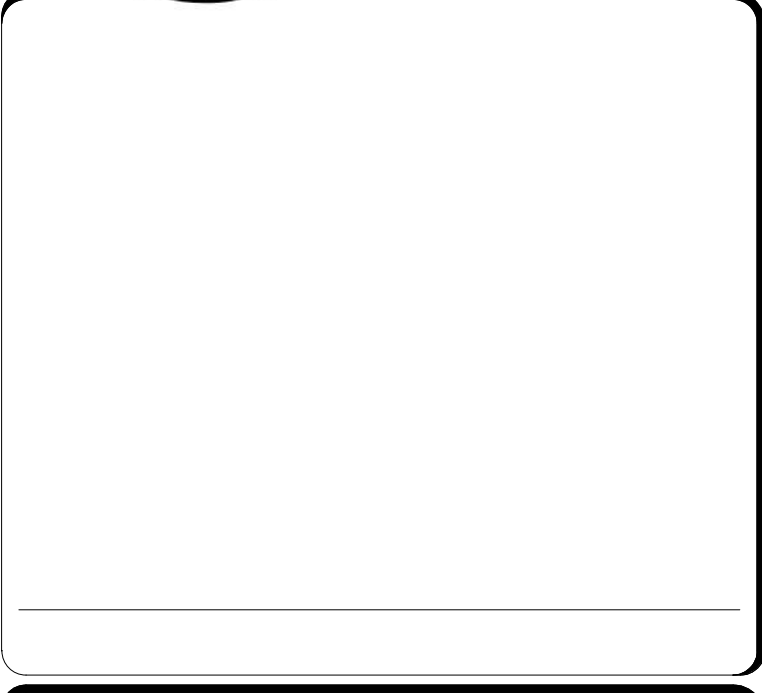


1 CF4 DETAILS
SCALE = 6" = 1'-0"

1. MANUFACTURER RECOMMENDS TEST TRIAL FOR HINGE INSTALLED ON DOORS THICKER THAN 3/4"
2. FOR CABINET DOORS TALLER THAN 40" OR HEAVIER IN WEIGHT 3 HINGES ARE NEEDED FOR INSTALLATION



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GRAPHIC SCALE(S)

DATE	07/18/24
REVISION #	1
REVISION DESCRIPTION	Final Construction Documents

DATE	07/18/24
REVISION #	1
REVISION DESCRIPTION	Final Construction Documents

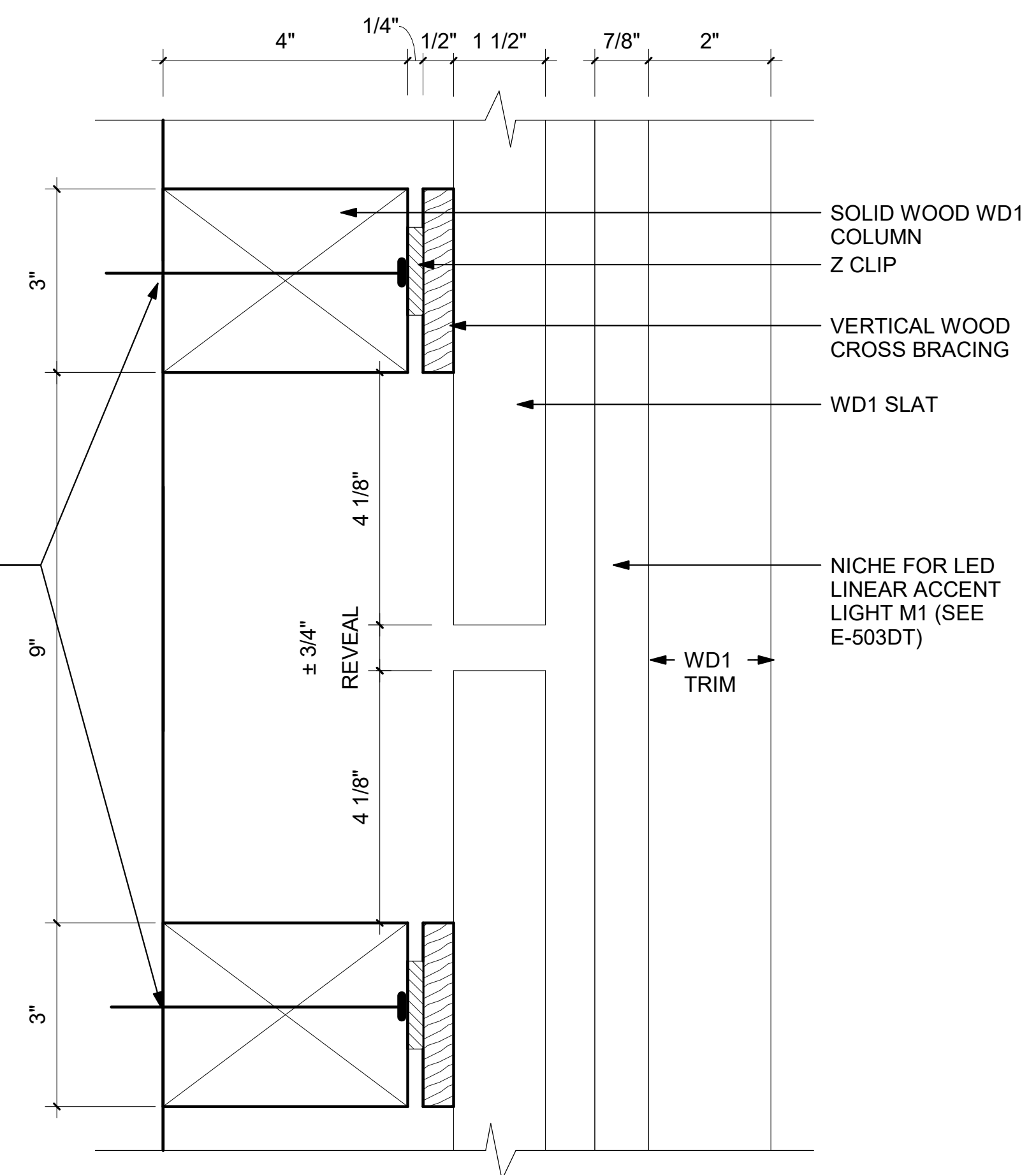


BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	MILLWORK DETAILS
WORKING STAFF	MR NN MR

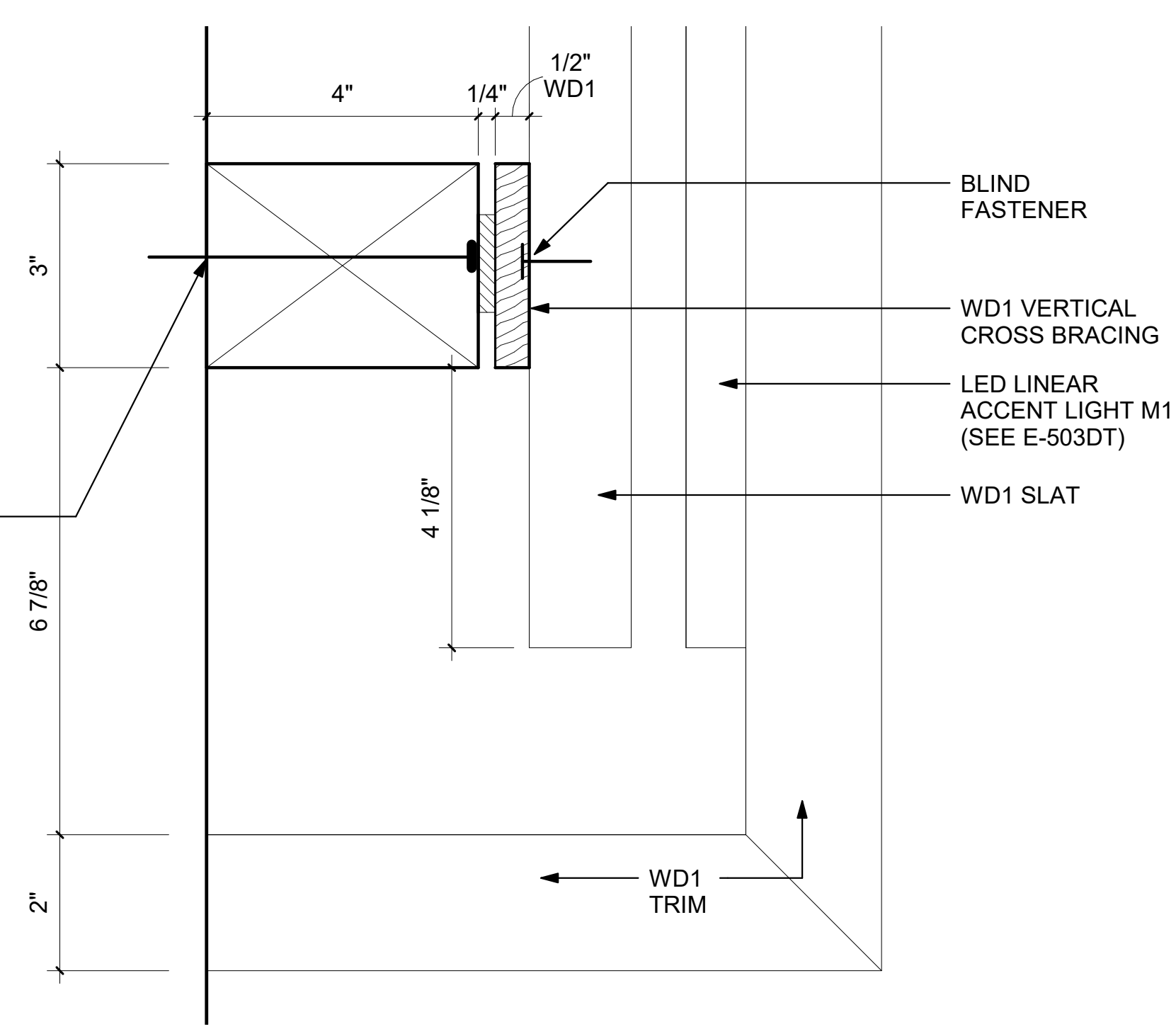
SHEET NO.	A-503
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3 BACK WALL TYP COLUMN PLAN DETAIL
SCALE = 6" = 1'-0"



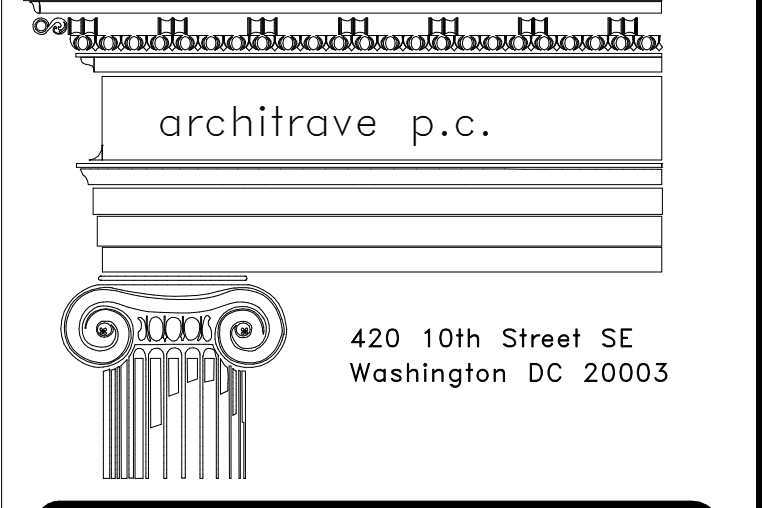
2 BACK WALL COLUMN PLAN DETAIL @ CORNER
SCALE = 6" = 1'-0"

TYPICAL MILLWORK NOTES:

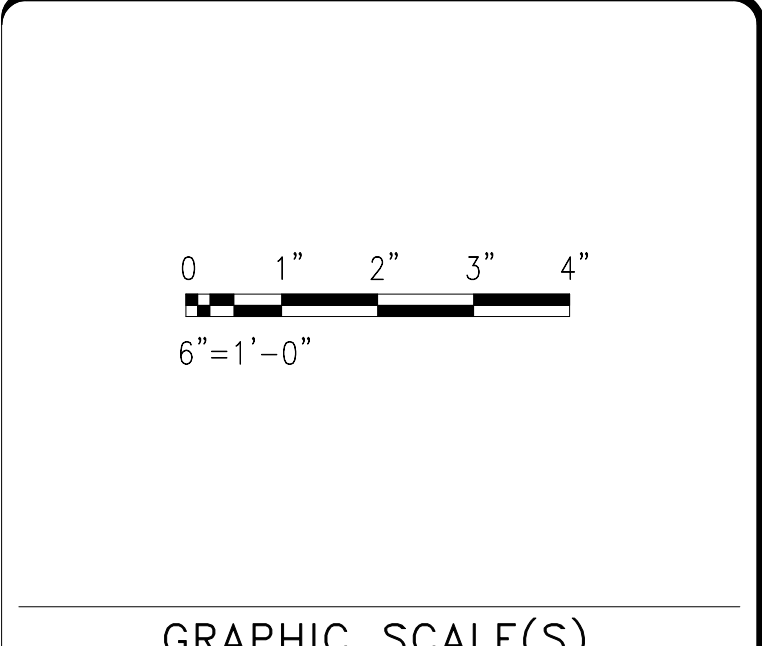
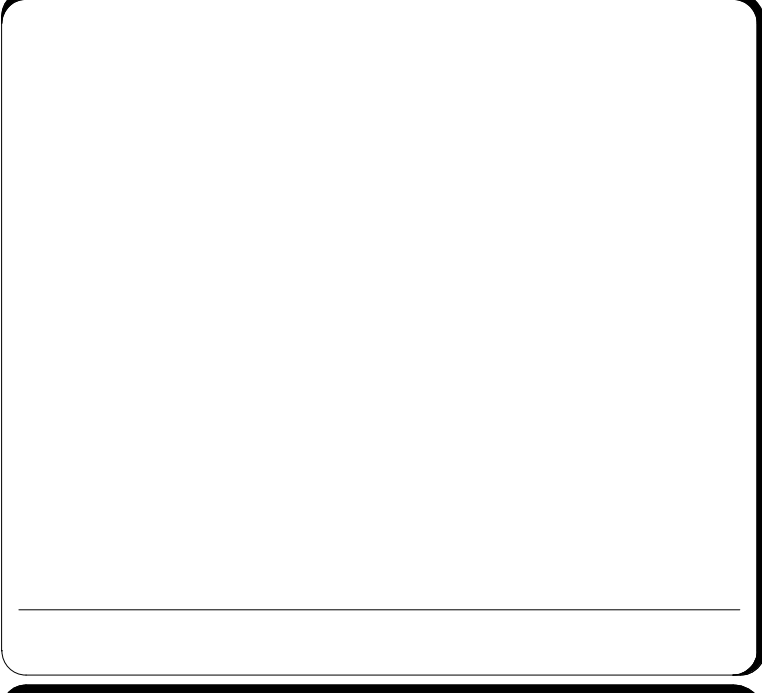
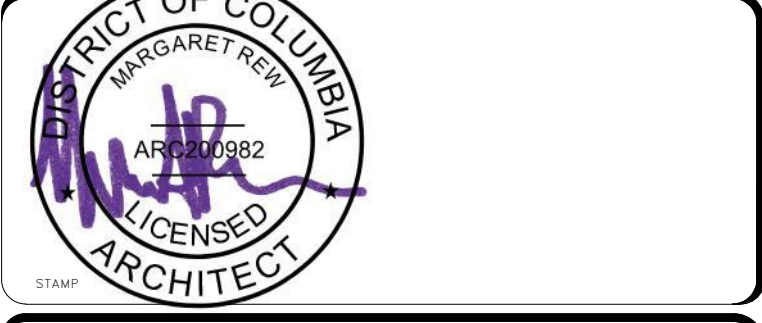
1. SEALANT AT ALL JOINTS OR SEAMS BETWEEN MATERIALS LESS THAN 1/4", UNLESS NOTED AS REVEAL.
2. ALL FASTENERS NOT SPECIFICALLY IDENTIFIED ARE TO BE CONCEALED OR BLIND
3. ALL GLUE COMPOSITES ARE TO BE BOTH BISCUITS AND GLUE. NO ELEMENTS TO RELY SOLELY ON ADHESIVES.
4. INSTALL SHELVES TO BE PLUMB AND LEVEL RELATIVE TO THE SPACE AND EACH OTHER. REVIEW INSTALL WITH COTR PRIOR TO USING LOCTITE OR OTHER NON-REVERSIBLE THREAD TREATMENTS.
5. ALL VISIBLE FASTENERS, NUTS, WASHERS, AND MSC MTL HARDWARE TO BE COPPER UNLESS OTHERWISE NOTED.
6. INCLUDED HARDWARE MATERIAL SCHEDULE IN THE MILLWORK SHOP DRAWING
7. ANCHORS SHOWN FOR DESIGN INTENT AND BIDDING. FINAL SELECTION IS THE RESPONSIBILITY OF MILLWORK DELEGATED DESIGN PACKAGE

GPR AND ANCHORING NOTES:

1. LAYOUT LOCATIONS OF ALL PROPOSED ANCHOR POINTS WITH PAINTER'S TAPE FULL SCALE ON-SITE.
2. GPR ALL PROPOSED ANCHOR POINT LOCATIONS AND MARK ON THE WALL WITH TAPE OR CHALK ANY CONFLICTS, LABEL AND DOCUMENT EACH CONFLICT.
3. NOTIFY COTR OF ANY CLIPS/ REBAR OR OTHER OBSCURED ELEMENTS THAT WOULD IMPEDE EFFECTIVE ANCHORING.



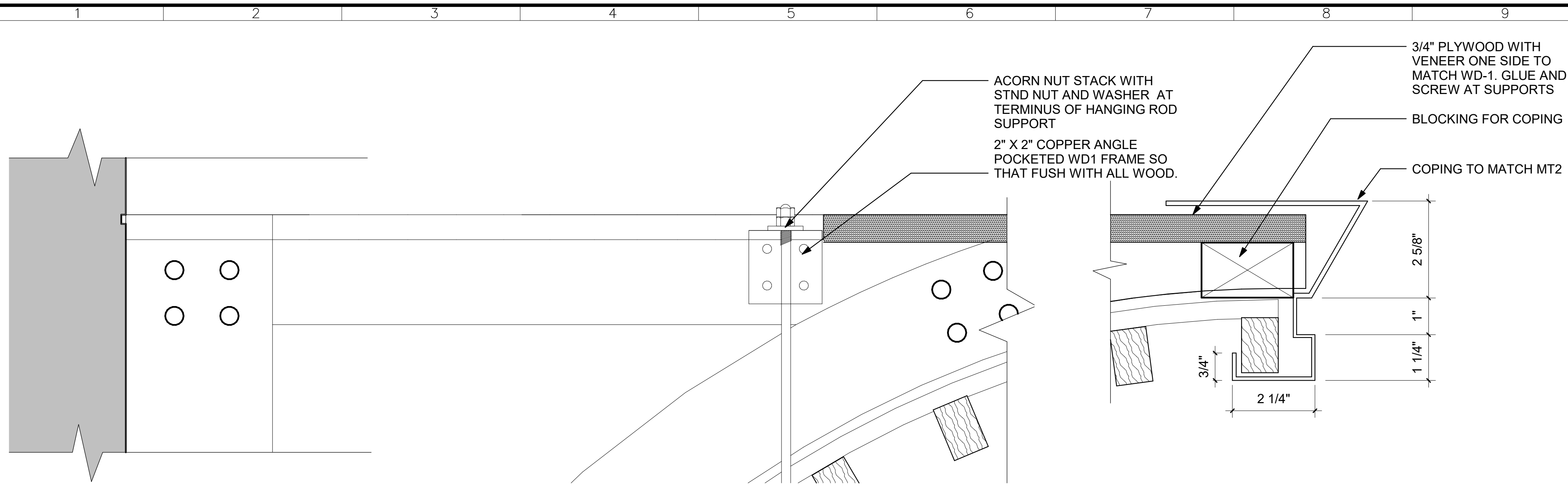
FOR CONSTRUCTION



DATE	SUBMISSION
07/18/24	Final Construction Documents
REVISION # DATE	REVISION DESCRIPTION

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	MILLWORK DETAILS
WORKING STAFF	Designer Author Checker

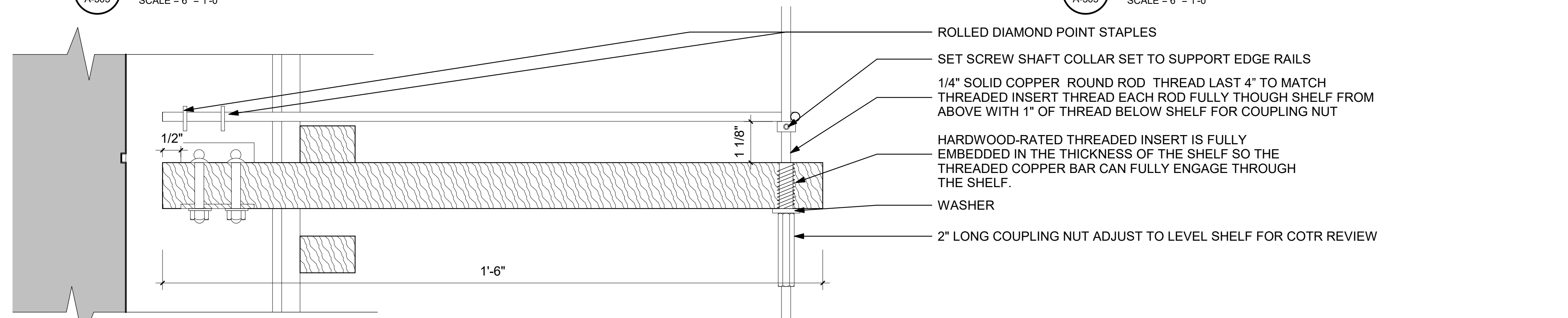
SHEET NO. **A - 504**
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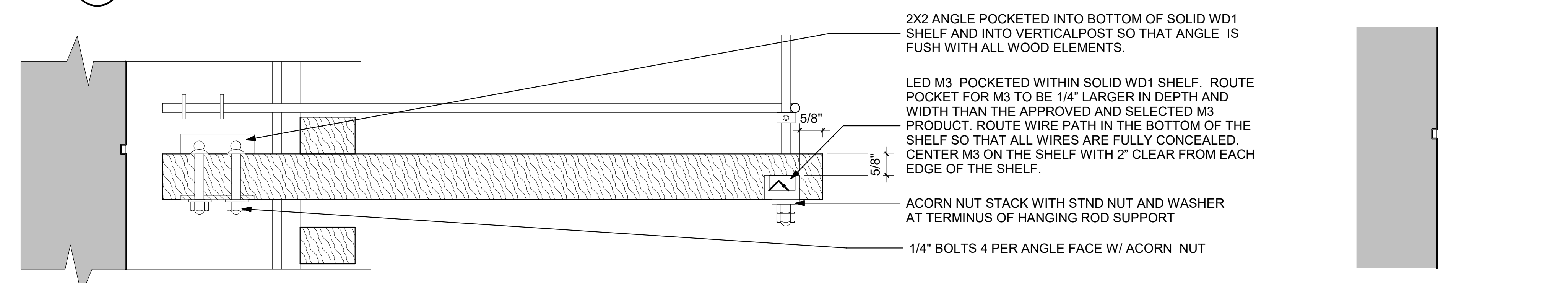
- TYPICAL MILLWORK NOTES:**
- SEALANT AT ALL JOINTS OR SEAMS BETWEEN MATERIALS LESS THAN 1/4", UNLESS NOTED AS REVEAL.
 - ALL FASTENERS NOT SPECIFICALLY IDENTIFIED ARE TO BE CONCEALED OR BLIND
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 - INSTALL SHELVES TO BE PLUM AND LEVEL RELATIVE TO THE SPACE AND EACH OTHER. REVIEW INSTALL WITH COTR PRIOR TO USING LOCTITE OR OTHER NON-REVERSIBLE THREAD TREATMENTS.
 - ALL VISIBLE FASTENERS, NUTS, WASHERS, AND MSC MTL HARDWARE TO BE COPPER UNLESS OTHERWISE NOTED.
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 - ANCHORS SHOWN FOR DESIGN INTENT AND BIDDING. FINAL SELECTION IS THE RESPONSIBILITY OF MILLWORK DELEGATED DESIGN PACKAGE

1 PLYWOOD SHELF SUPPORT CONNECTION
SCALE = 6" = 1'-0"

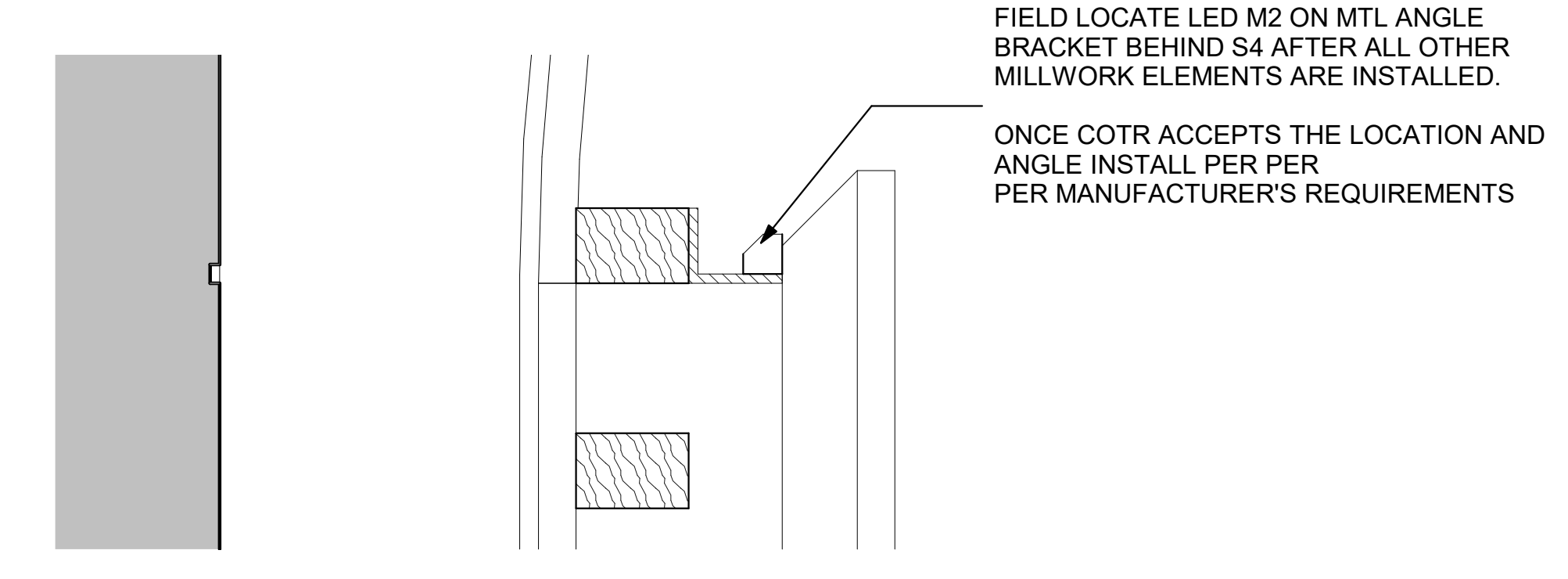
2 BACK WALL CAP DETAIL
SCALE = 6" = 1'-0"



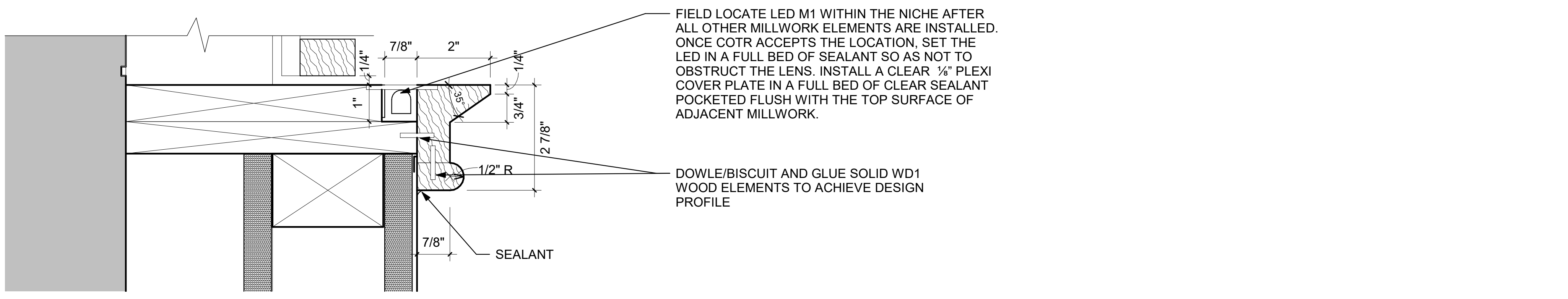
3 TYP. MID SHELF DETAIL CUT AT HANGING ROD SUPPORT
SCALE = 6" = 1'-0"



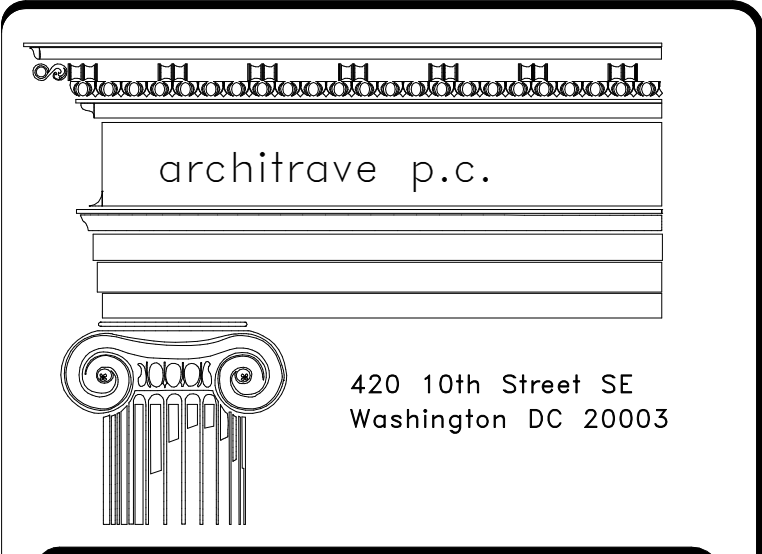
5 BOTTOM SHELF DETAIL CUT AT LED
SCALE = 6" = 1'-0"



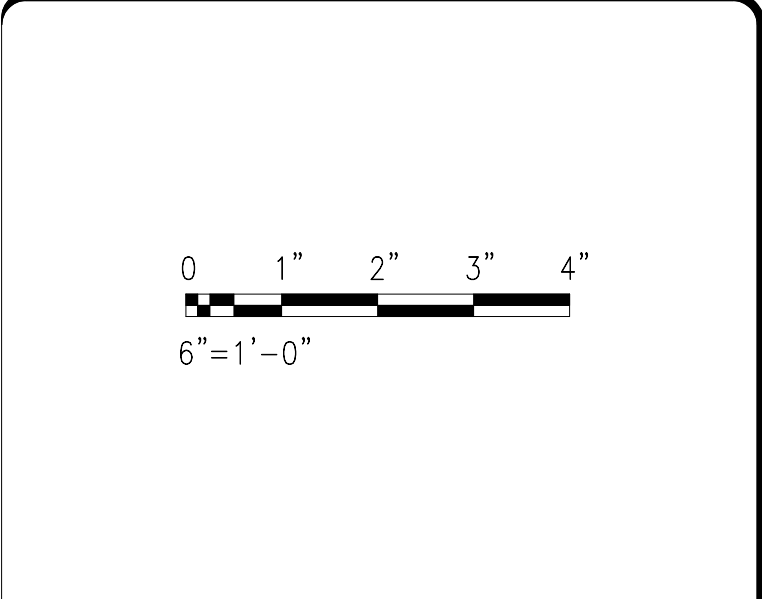
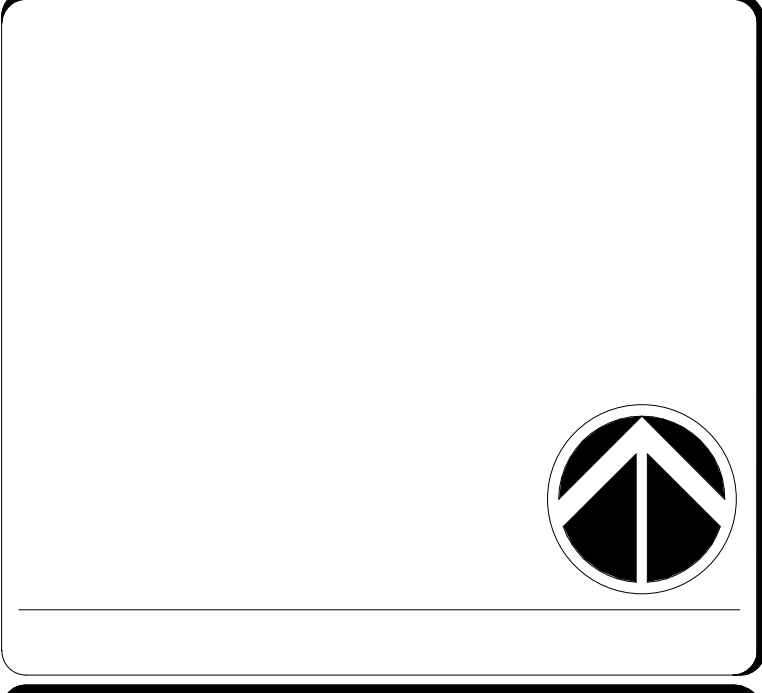
4 LED LINEAR ACCENT LIGHTS ON BLOCKING
SCALE = 6" = 1'-0"



6 BACKSPLASH CAP DETAIL
SCALE = 6" = 1'-0"



FOR CONSTRUCTION

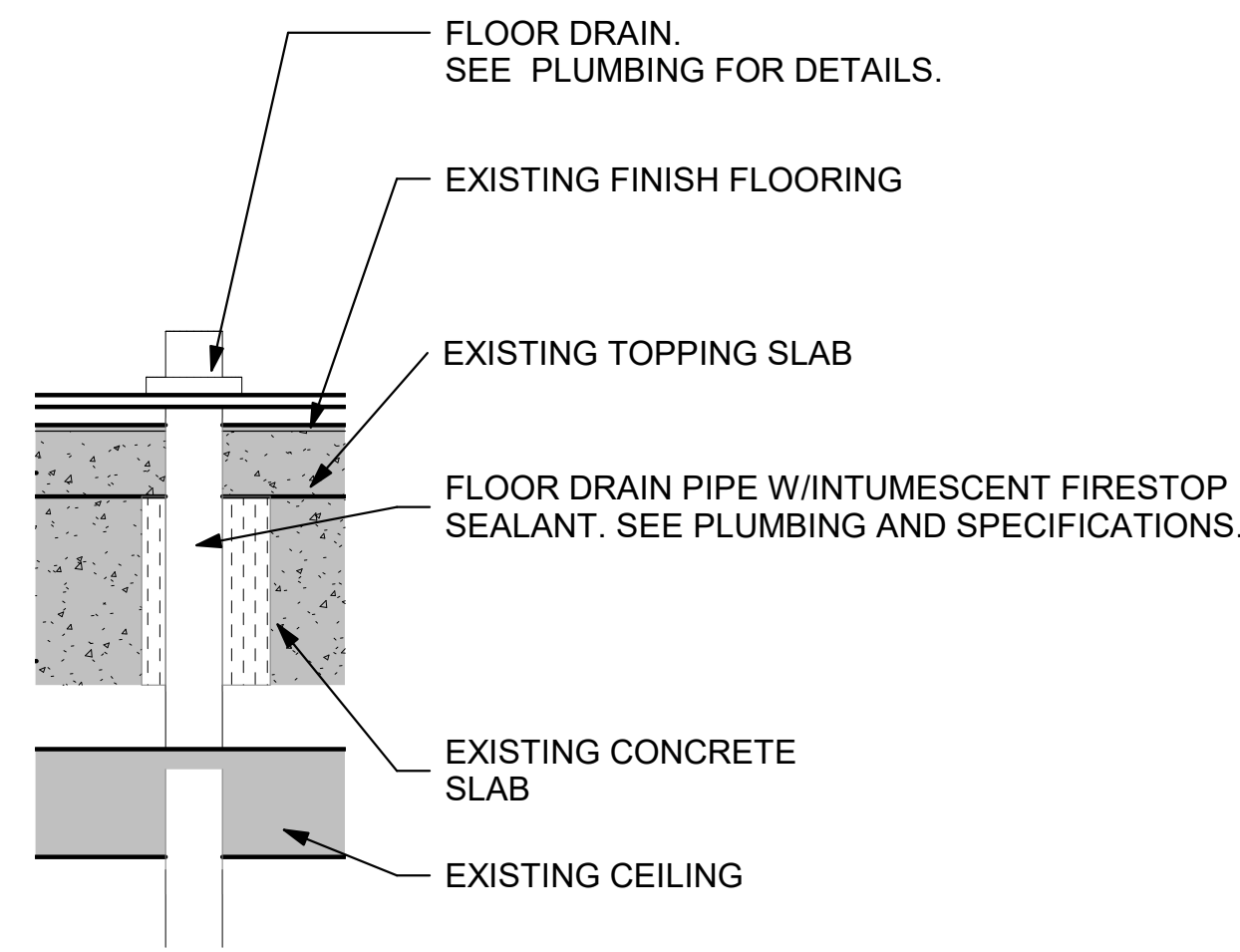


DATE	07/18/24	REVISION	Final Construction Documents
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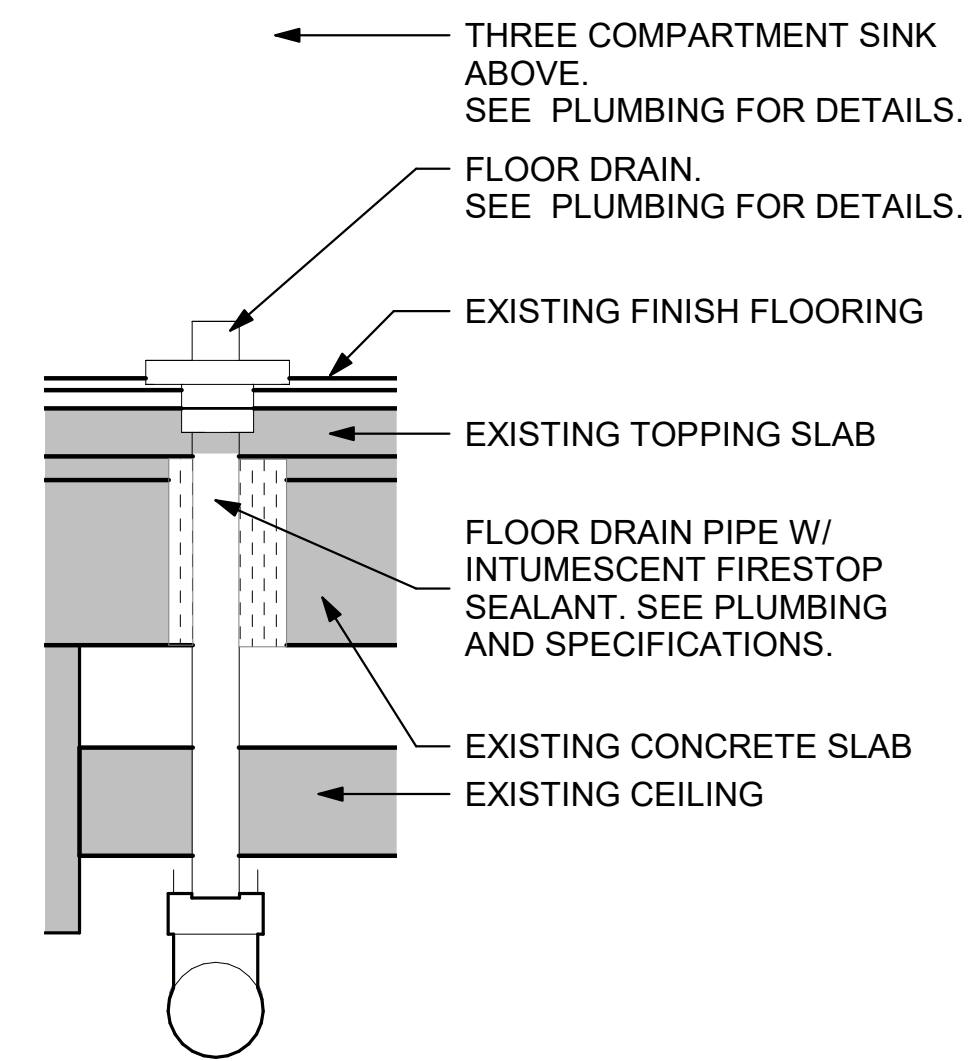
Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	MILLWORK DETAILS
WORKING STAFF	Designer Author Checker
	DESIGNED BY DRAWN BY CHECKED BY

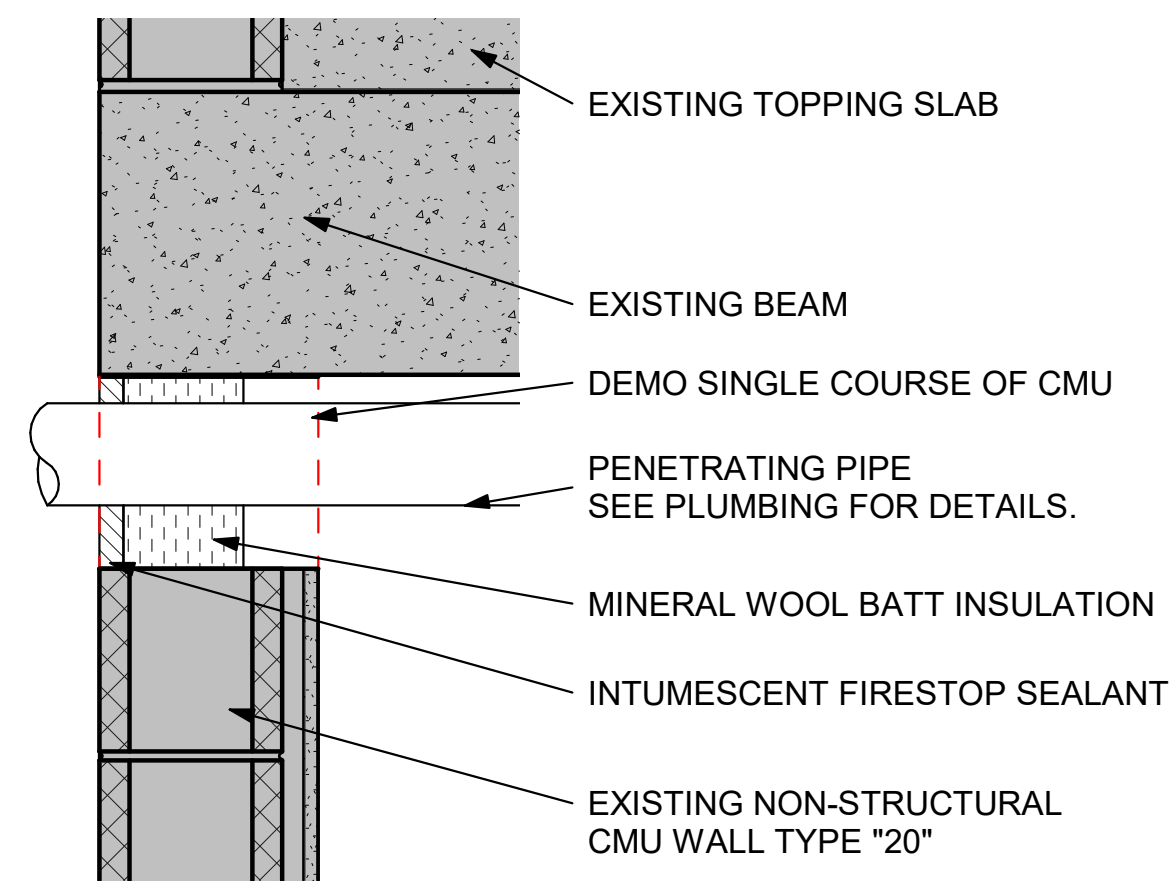
SHEET NO. **A-505**
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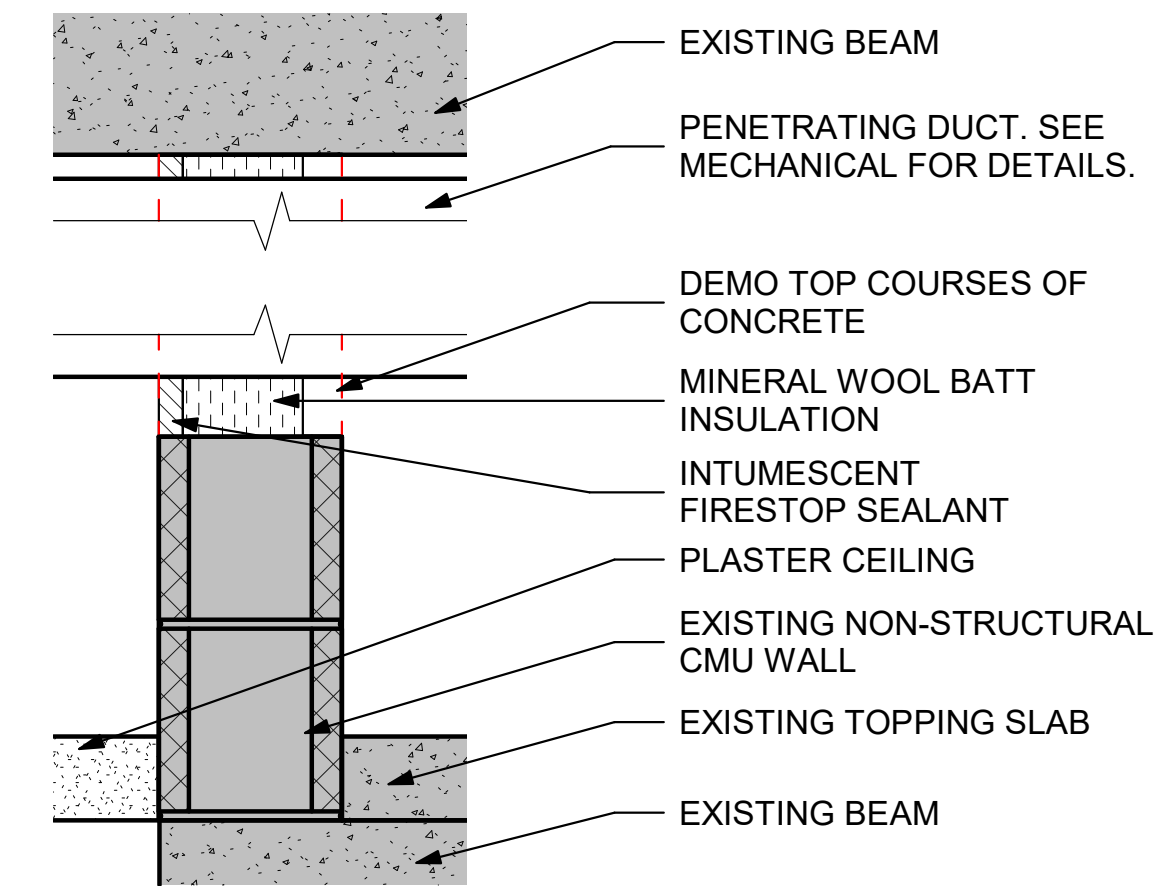
1 SECTION @ FLOOR DRAIN FD-D
A-506 SCALE = 1 1/2" = 1'-0"



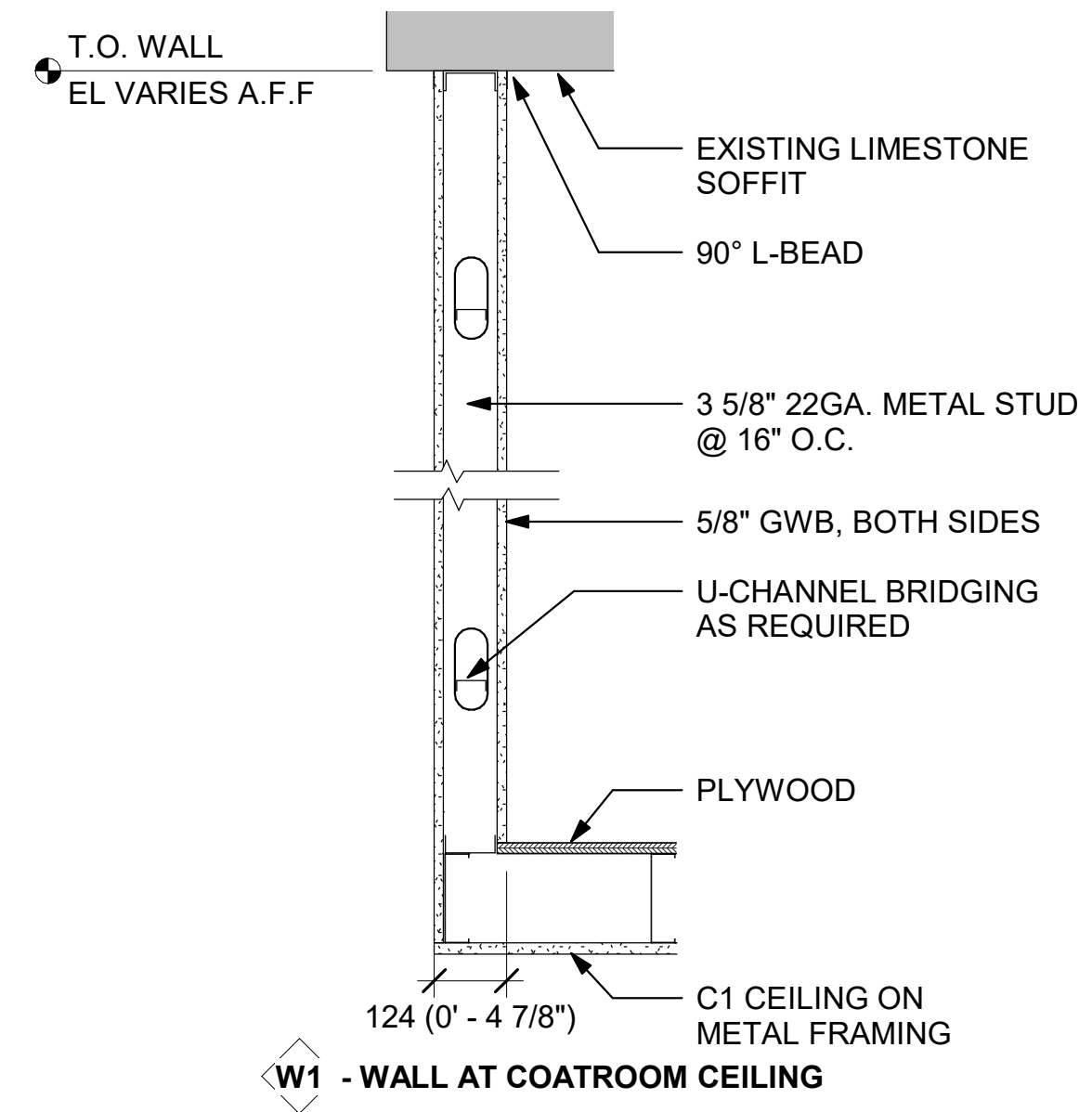
2 SECTION @ FLOOR DRAIN FS-B
A-506 SCALE = 1 1/2" = 1'-0"



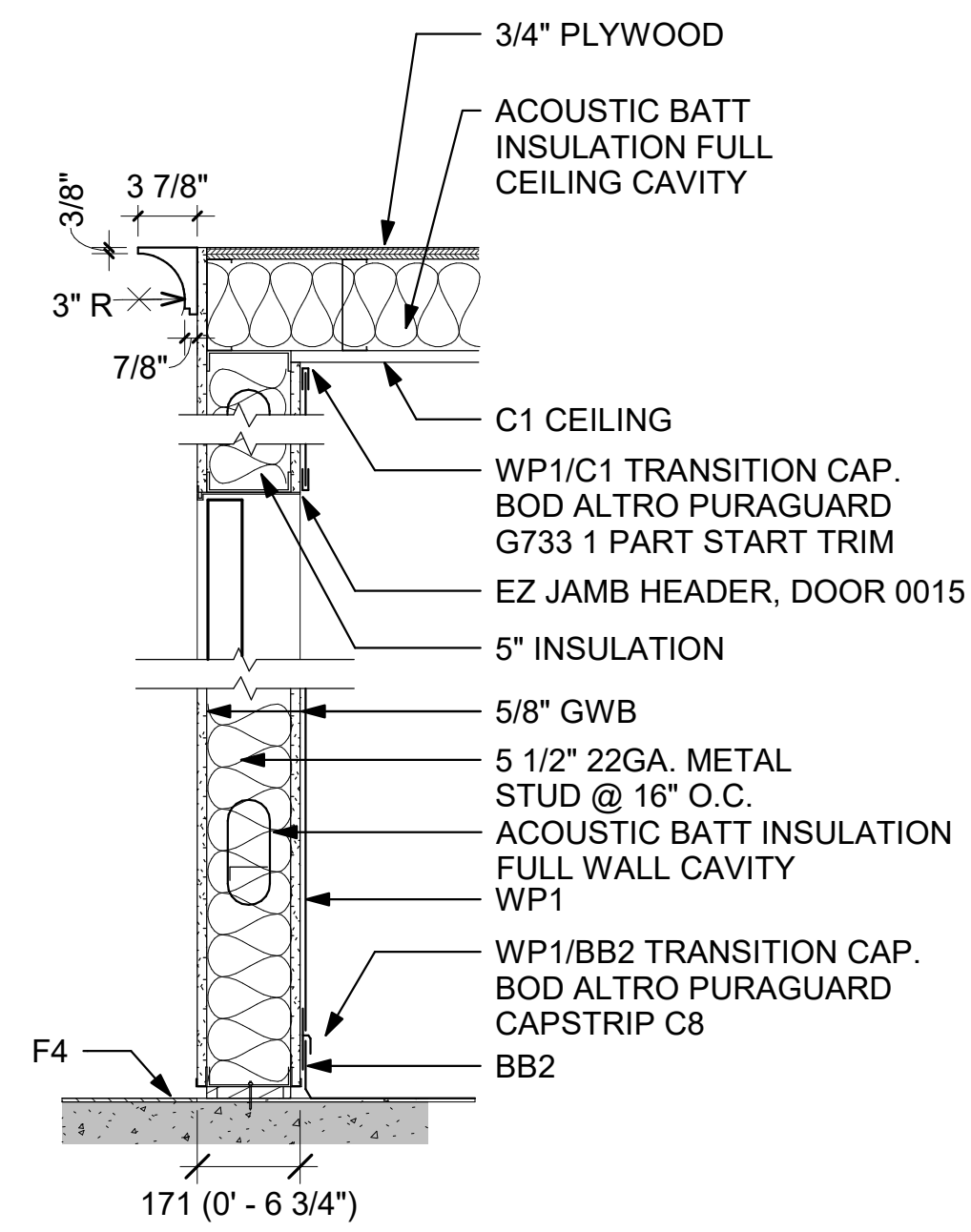
3 SECTION @ MEZZ. PENETRATION
A-506 SCALE = 1 1/2" = 1'-0"



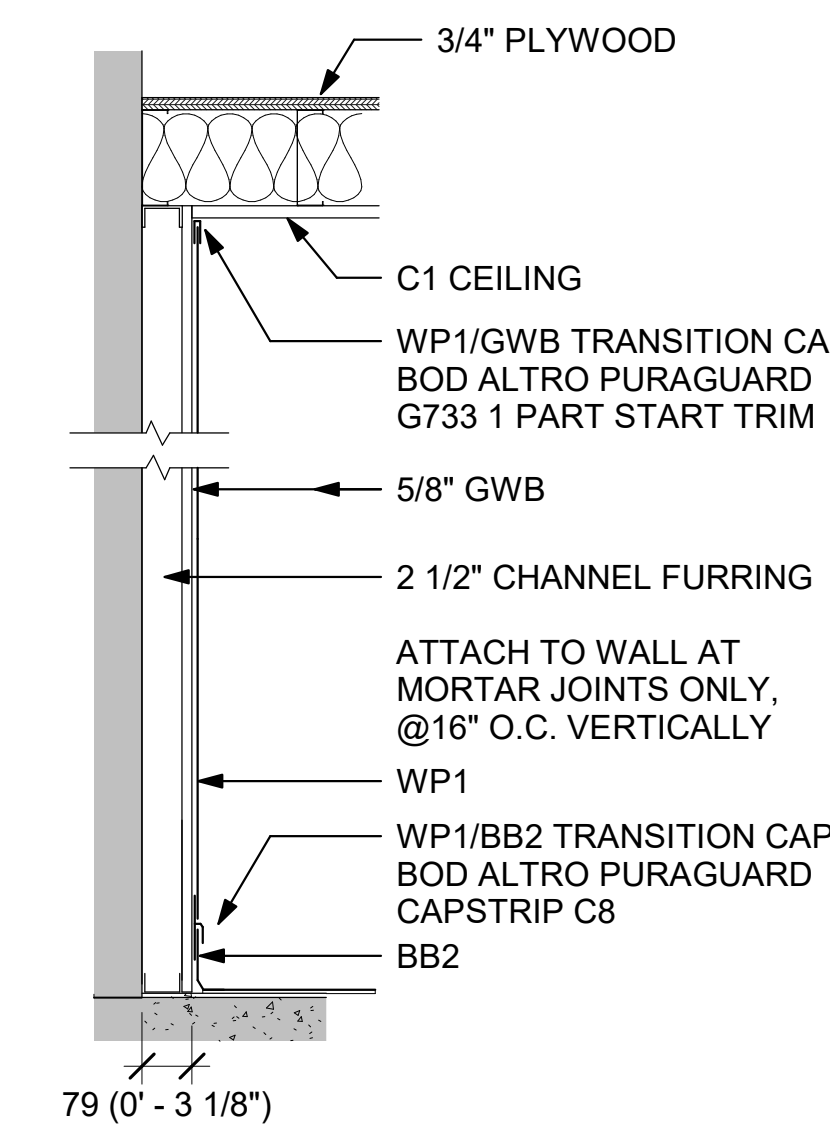
4 SECTION @ MEZZ. PENETRATION
A-506 SCALE = 1 1/2" = 1'-0"



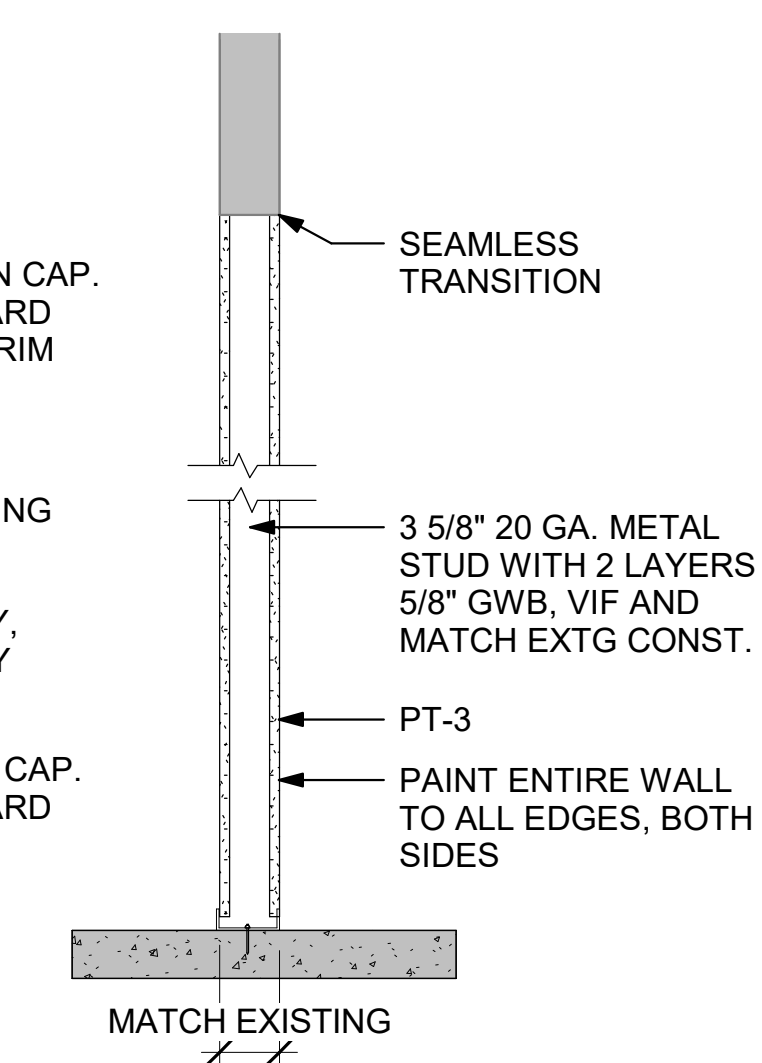
W1 - WALL AT COATROOM CEILING



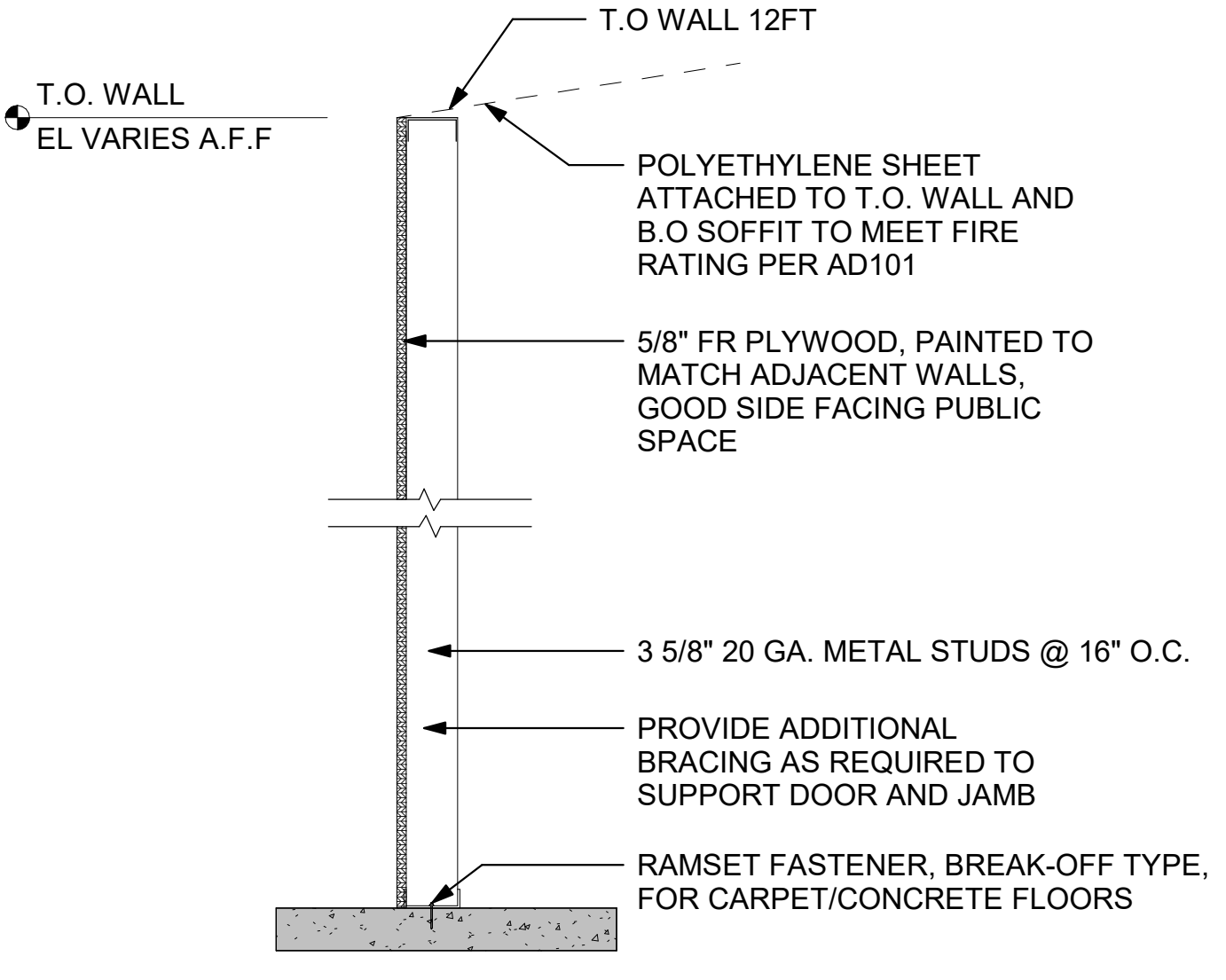
W2 - PLUMBING WALL AT COATROOM



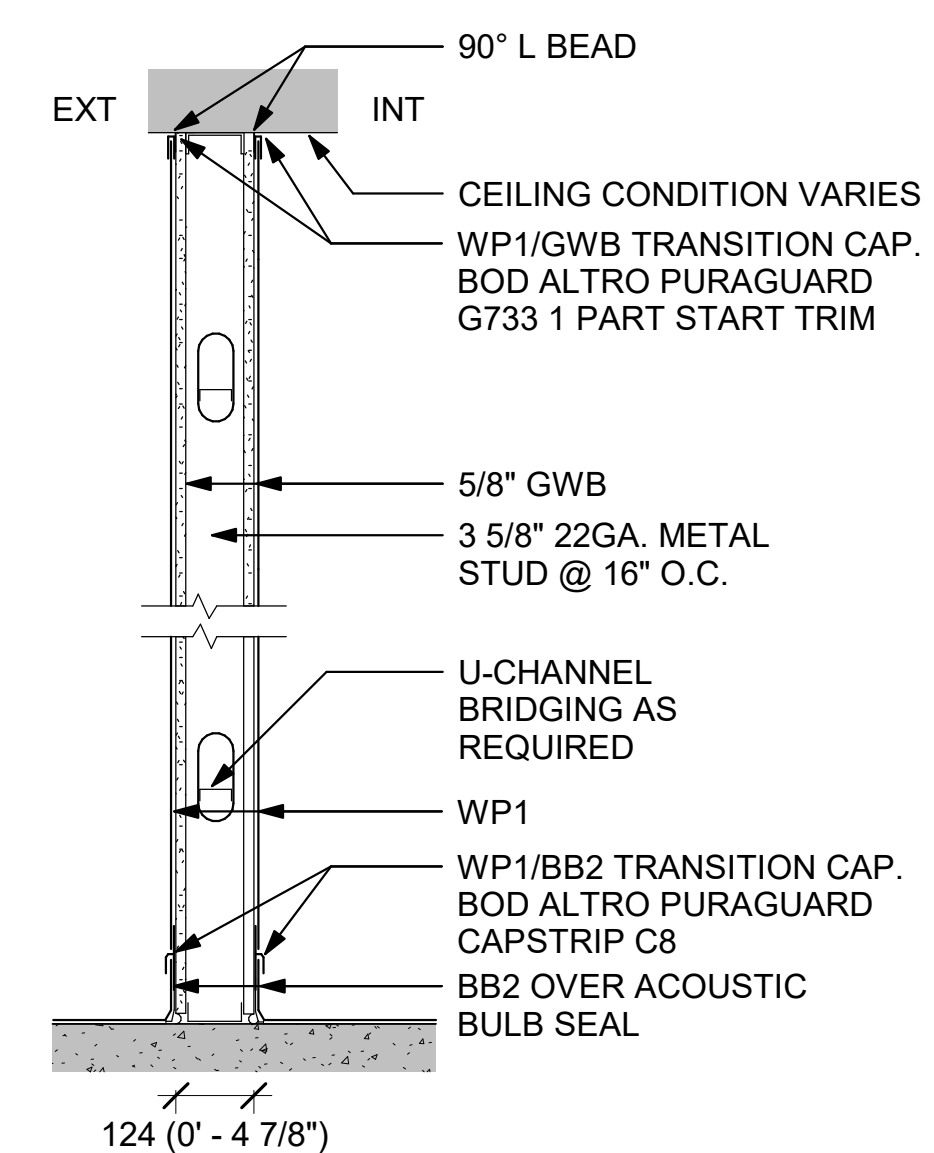
W3 - ONE SIDED WALL FURRING AT COATROOM



W4 - INFILL WALL AT CASHROOM



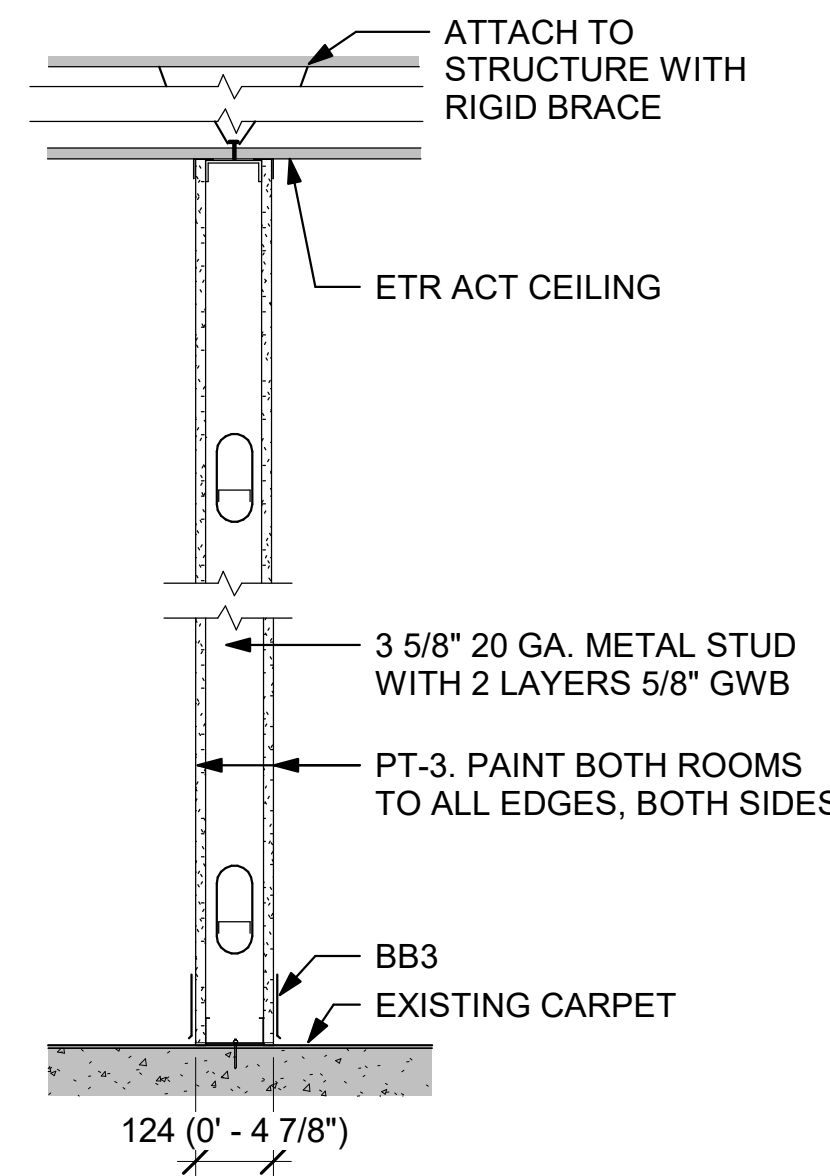
W5 - TYPICAL TEMPORARY BARRIER



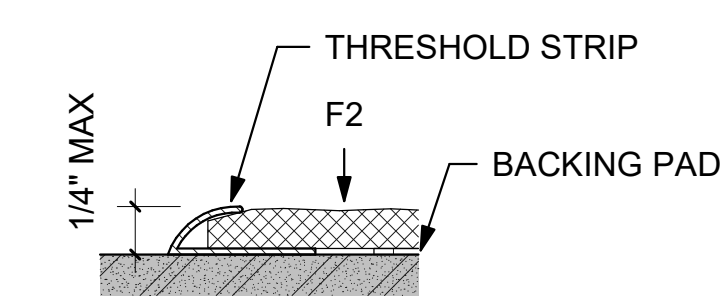
W6 - WALL AT PLUMBING ROOM



W7 - NOT USED



W8 - NEW WALL AT CASHROOM



5 CARPET TILE TRANSITION
A-506 SCALE = 12" = 1'-0"

6 WALL TYPES
A-506 SCALE = 1" = 1'-0"

architrave p.c.
420 10th Street SE
Washington DC 20003

FOR CONSTRUCTION

DISTRICT OF COLUMBIA
MARGARET REED
ARCHITECT
LICENSED ARCHITECT

KEY PLAN

GRAPHIC SCALE(S)

0 1" 2"
1"=1"
0 1/2" 1' 2'
1"=1'-0"
0 1' 2' 4'
1/2"=1'-0"

DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	DESCRIPTION	

Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA									
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PROJECT TITLE	CAFE AT SACKLER PAVILION									
SF PROJECT NUMBER	2209110									
A/E PROJECT NUMBER	1401.54									
DRAWING TITLE	PENETRATION DETAILS & WALL TYPES									
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>NN</td> <td>MR</td> </tr> <tr> <td>DRAWN BY</td> <td>NN</td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> <td></td> </tr> </table>	DESIGNED BY	NN	MR	DRAWN BY	NN		CHECKED BY		
DESIGNED BY	NN	MR								
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SHEET NO.	A-506									
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MILLWORK SCHEDULE		
TAG	DESCRIPTION	FURNISHED BY
1.01	SERVING COUNTER	COUNTER FABRICATOR
1.12	BACK COUNTER	COUNTER FABRICATOR
M3	WASTE/UTENSILS	MILLWORK CONTRACTOR
M4	CONDIMENT AND DISPLAY	MILLWORK CONTRACTOR

FURNITURE SCHEDULE					
COUNT	TAG	DESCRIPTION	BASIS OF DESIGN		FINISHES
			MNFR	MODEL	
12	CH1	CAFE CHAIR	Knoll, Inc.	BERTOIA SIDE CHAIR	420C, BACKPAD AND SEAT CUSHION
6	CH2	LOUNGE CHAIR	DAVIS	TOTE CHAIR WITH HANDLE	
2	CH3	SOFA	Knoll, Inc.	FLORENCE KNOLL SOFA	
2	CH4	BENCH	COR	BERTOIA BENCH	410Y, OUTDOOR TEAK
1	E1	SAFE	AMERICAN SECURITY	AM SERIES HOME SECURITY SAFE	DEEP BLUE TEXTURED PAINT FINISH
1	E2	LOCKERS	ULINE	6 VENTILATED DOUBLE TIER LOCKERS, 3 WIDE	
1	E4	DESK	KI FURNITURE KNOWLEDGE	TOGGLE DESK, RECTANGULAR TOP ADJUSTABLE C-LEG BASE. 24" X 72"	SILVER
3	E5	CHAIR	KI FURNITURE KNOWLEDGE	ALTUS MESH TASK CHAIR - 24/7	
1	E6	TIME CLOCK	-	-	BY VENDOR. CONTRACTOR TO PROVIDE POWER, DATA, AND IPAD WALL MOUNT BRACKET.
1	E7	NETWORK RACK	-	-	
4	PL1A	PLANTER	ARCHITECTURAL SUPPLEMENTS	LOW FOSSIL FUEL FIBERGLASS PLANTERS	IRON CLAD
4	PL1B	PLANTER	ARCHITECTURAL SUPPLEMENTS	LOW FOSSIL FUEL FIBERGLASS PLANTERS	IRON CLAD
7	PL2	PLANTER	CAPITOL GARDEN	TULIP VASE, 80 CM HT	DELPHI WHITE
9	PL3	PLANTER	CAPITOL GARDEN	TULIP CASE, 60 CM HT	DELPHI WHITE
4	PL4	PLANTER	CAPITOL GARDEN	MEDITERRANEAN, 72 CM HT	BRONZE
4	PL5	PLANTER	CAPITOL GARDEN	MEDITERRANEAN, 56 CM HT	DELPHI WHITE
4	PL6	PLANTER	CAPITOL GARDEN	TAJ TANK, 72 CM HT	BRONZE
3	ST1	STANCHION	ART DISPLAY	Q-CORD RETRACTABLE BARRIER POLE	STAINLESS STEEL
5	T1	SQUARE TABLE (30" HEIGHT)	Knoll, Inc.	MIES VAN DER ROHE BARCELONA TABLE	
3	T2	SIDE TABLE (18" HEIGHT)	Knoll, Inc.	HAIRPIN STACKING TABLE	
1	T3	COFFEE TABLE	Knoll, Inc.	GIRARD	

DOOR SCHEDULE									
DOOR NUMBER	WIDTH	HEIGHT	THICKNESS	FIRE RATING	MATERIAL	FINISH	Frame Type	HARDWARE #	COMMENTS
0014A	3' - 0"	7' - 0"	1 3/4"	N/A	HM	PTD	STANDARD	3	DOOR TO NEW FOG INTERCEPTOR ROOM
0015	3' - 0"	7' - 9"	2 1/4"	N/A	HM	PTD	SEAMLESS	1	BOD: EZY JAMB SEAMLESS INSWING DOOR FRAME, RH
2020A	2' - 9"	6' - 11"	N/A	N/A				N/A	ETR DOOR ADD KICKPLATE
2020B	2' - 9"	6' - 11"	N/A	N/A				N/A	ETR DOOR ADD KICKPLATE
2087B	3' - 0"	7' - 0"	2"	N/A	HM	PTD	STANDARD	2	INSTALL SALVAGED DOOR & FRAME, NEW HARDWARE. 2 WIDE VIEW PEEPHOLES AT 59" AFF AND 40" AFF.
2087C	3' - 0"	7' - 0"	2"	N/A	HM	PTD	STANDARD	2	NEW INTERNAL DOOR AT CASHROOM. 2 WIDE VIEW PEEPHOLES AT 59" AFF AND 40" AFF

FIRE PENETRATION SCHEDULE						
WALLS						
WALL TYPES	WALL CONSTRUCTION	FIRE RATING OF...	REQ TEMP RATINGS	PENETRATING...	BOD UL NUMBER	REMARKS
20	CMU	NR	NR	1/2" (15) CW, 1/2" (15) HW, 1/2" (15) HWR 3/4" (20) RO, A/D 16"x10"	HI/PF 120-11	2, 3

FLOORS						
FLOOR SLAB	DESCRIPTION	FIRE RATING	REQ TEMP RATING	PENETRATING...	BOD UL NUMBER	REMARKS
CONCRETE	8-10" SLAB	SEE NOTE, TYP.	SEE NOTE, TYP.	FLOOR DRAIN	HI/PF 120-11	1, 2
CONCRETE	8-10" SLAB	SEE NOTE, TYP.	SEE NOTE, TYP.	PIPE SLEEVE	HI/PF 120-11	1, 2
CONCRETE	8-10" SLAB	SEE NOTE, TYP.	SEE NOTE, TYP.	ELECTRICAL...	HI/PF 120-11	1, 2
CONCRETE	WAFFLE SLAB	SEE NOTE, TYP.	SEE NOTE, TYP.	ELECTRICAL...	HI/PF 120-11	1, 2
CONCRETE	WAFFLE SLAB	SEE NOTE, TYP.	SEE NOTE, TYP.	PIPE	HI/PF 120-11	1, 2
CONCRETE	SLAB ON GRADE	SEE NOTE, TYP.	SEE NOTE, TYP.	SAN. PIPE	HI/PF 120-11	1, 2
DECKING	METAL DECKING INFILL	SEE NOTE, TYP.	SEE NOTE, TYP.	DUCTS	HI/PF 120-11	1, 2
DECKING	METAL DECKING INFILL	SEE NOTE, TYP.	SEE NOTE, TYP.	FLOOR DRAIN	HI/PF 120-11	1, 2

FIRE STOPPING NOTES:

- ARCHITECTURAL FLOOR PLANS ARE PROVIDED FOR REFERENCE TO INDICATE KNOWN LOCATIONS OF EXISTING FIRE-RATED WALLS. SEE MECHANICAL, ELECTRICAL AND FIRE ALARM DRAWINGS FOR AREAS OF WORK.
- WALL TYPES INDICATED BY NUMBERS ON THE THE FLOOR PLANS CORRESPOND TO WALL TYPES INDICATED ON THE BUILDING'S RECORD CONSTRUCTION DOCUMENTS DATED 01/26/83. SEE SHEET A504 FOR DETAILS FOR REFERENCE.
- VERIFY ACTUAL EXISTING CONDITIONS IN FIELD.
- AT ALL NEW OR ALTERED PENETRATIONS THROUGH FIRE-RATED WALLS OR NEWLY ABANDONED PENETRATIONS THROUGH FIRE-RATED WALLS PROVIDE FIRESTOPPING WITH A RATING EQUAL TO WALL BEING PENETRATED AND COMPLYING WITH THE REQUIREMENTS OF A UL-LISTED THROUGH-PENETRATION FIRESTOPPING DESIGN. SEE SCHEDULE OF BASIS-OF-DESIGN UL DESIGNS, THIS SHEET, FOR USE AT SELECTED WALL TYPES.
- AT ALL NEW OR ALTERED PENETRATIONS THROUGH FLOOR SLABS OF NEWLY ABANDONED PENETRATIONS THROUGH FLOOR SLABS PROVIDE FIRESTOPPING COMPLYING WITH THE REQUIREMENTS OF A UL-LISTED THROUGH PENETRATION FIRESTOPPING ASSEMBLIES FOR SLAB PENETRATIONS ARE TO ASSUME A TWO-HOUR FIRE RATING AND A TWO-HOUR TEMPERATURE RISE RATING UNTIL THE MINIMUM IS VERIFIED BY COTR. SEE SPECIFICATION SECTION *078413 - PENETRATION FIRESTOPPING* FOR ADDITIONAL REQUIREMENTS.

KEYED REMARKS:

- MAINTAIN EXISTING FIRE RATING. ASSUME TWO HOUR FIRE-RATING MINIMUM REQUIREMENT TO BE VERIFIED WITH COTR.
- BASIS OF DESIGN IS BASED ON USE OF PRODUCTS OF THE HILTI COMPANY. PROVIDE INDICATED DESIGN OF OTHER UL-LISTED DESIGN OF SAME RATING AND COMPLYING WITH WALL OR FLOOR TYPE USING PRODUCTS OF A DIFFERENT MANUFACTURER.
- PENETRATIONS TO BE INFILLED TO MAINTAIN EXISTING FIRE RATING.

MATERIAL SCHEDULE

FLOORS
 F1 - EXIST. GRANITE, SEAL AND POLISH
 F2 - CARPET TILES (BOD SHAW TRU COLOURS, CACTUS 68370, WITH ATTACHED CUSHION, ABA TRANSITION STRIP AND REMOVABLE ADHESIVE AT CORNERS ONLY)
 F3 - BOH VINYL SHEET GOOD WITH INTEGRAL BASE (BOD ALTRO STRONGHOLD 30, ABYSS K3001)
 F4 - COPPER THRESHOLD
 F5 - 3' X 10' PROTECTIVE RUBBER ANTI-FATIGUE NON-SLIP WORK MAT WITH DRAINAGE HOLES AND BEVELED EDGE
 F6 - INFILL TILE FLOORING TO MATCH EXISTING

CEILINGS
 C1 - BOH HARD CEILING (GWB WITH VINYL SURFACE - MUST BE CLEANABLE, SMOOTH, NON-POROUS, NON-FIBERGLASS)
 C2 - BOH ETR ACT. REPLACE DAMAGED OR DIRTY TILES, APPROX 25% OF TILES. (BOD ARMSTRONG TEGULAR 2X4, WHITE).

WALLS
 PT1 - PAINTED SURFACE UNDER DOME (BOD BM, GREEN)
 PT2 - BOH WALLS (BOD BM, WHITE)
 PT3 - BOH WALLS, MATCH EXISTING (BOD BM, WHITE)
 PT4 - BOH WALL, PUBLIC FACE (BOD BM, GREY)
 WP1 - FIBERGLASS REINFORCED PLASTIC WITH START AND EDGE STRIP AND INTEGRAL CORNERS (BOD ALTRO PURAGUARD, SEA SALT)

BASE
 BB1 - COPPER METAL KICK
 BB2 - BOH INTEGRAL VINYL BASE (SEE BOD FOR F3)
 BB3 - 4" VINYL BASE

MILLWORK
 CT1 - 3CM SOLID SURFACE COUNTERTOP WITH INTEGRAL BACKSPLASH (BOD CORIAN QUARTZ, BEIGE ROYALE)

CF1 - 2" Ø SOLID WOOD INVERTED TAMBOUR WITH TRANSPARENT WOOD SEALER (WALNUT)
 CF2 - SATURATED HIGH GLOSS LACQUER ON ABUSE RESISTANT GWB (GREEN)
 CF3 - TYPE III DECORATIVE VINYL GRAPHIC WALL COVERING
 CF4 - STAINLESS STEEL WITH POWDERCOAT (BOD RPI, CUSTOM RAL TBD)
 CF5 - PLASTIC LAMINATE (BLACK)
 CF6 - PLASTIC LAMINATE (WILSONART PLAN ALABASTER D432)

WD1 - SOLID WOOD WITH TRANSPARENT FOOD GRADE SEALER (WALNUT)

MT1 - NOT USED
 MT2 - SHEET METAL WITH FOOD GRADE SILICONE SEALER (COPPER)
 MT3 - STAINLESS STEEL (POLISHED)

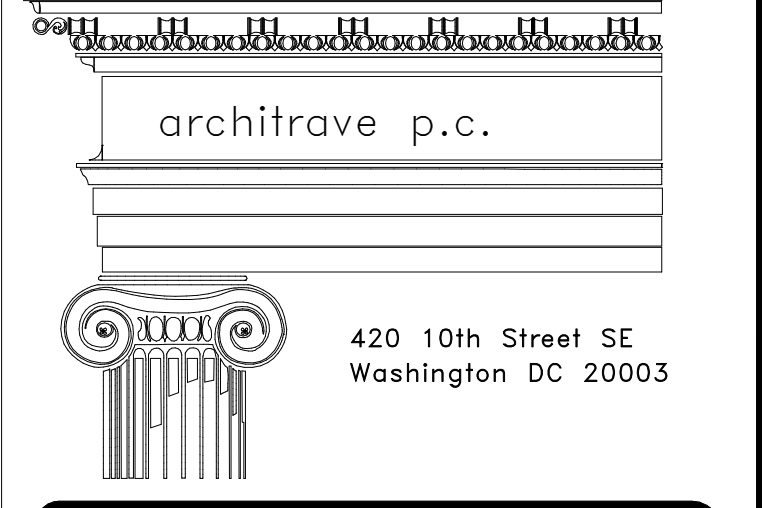
SIGNAGE
 S1 - CAFE SIGN, ABS WITH VINYL ADHESIVE GRAPHIC
 S2 - WAYFINDING SIGN, ABS WITH VINYL ADHESIVE GRAPHIC
 S3 - ROOM SIGNS, ABS W RAISED LETTERS AND BRAILLE
 S4 - 70 INCH DIGITAL MENU MONITOR (PROVIDED BY SI, INSTALLED BY CONTRACTOR)

HARDWARE SCHEDULE

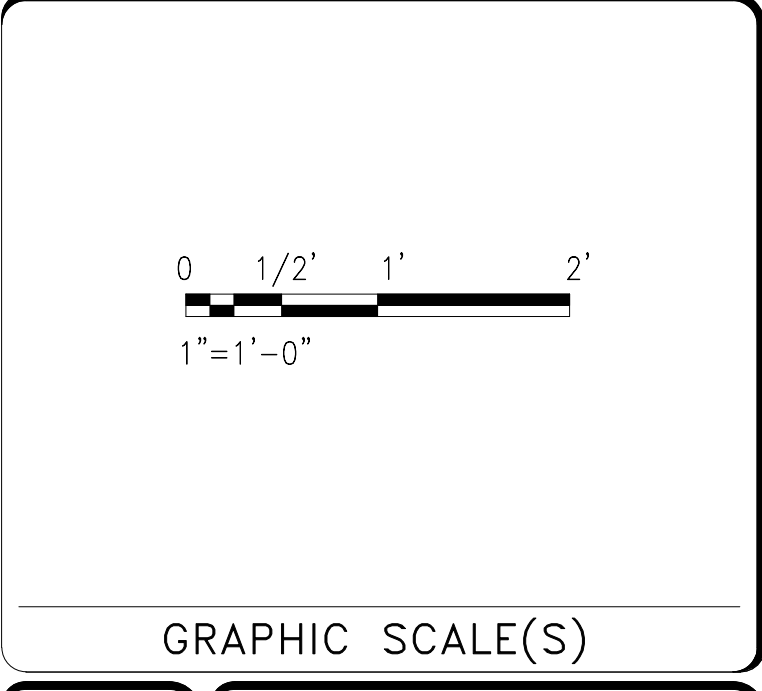
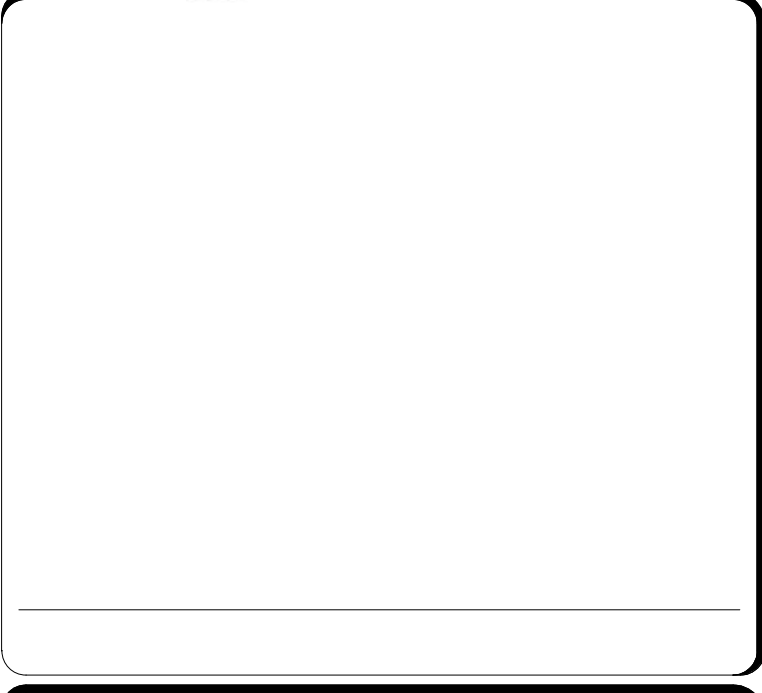
#1 - COATROOM @ GROUND LEVEL
 FUNCTION: STOREROOM
 3 HEAVY DUTY FULL MORTISE BUTT HINGES: BB1279-4.5X4.5 NRP. HAGER. FINISH: 626.
 1 ELECTRIFIED MORTISE LOCK W CUSTOM BLDG LEVER HANDLE: BOD SCHLAGE L9092EU (FINISH PER BLDG STANDARD)
 1 STRIKE
 1 CLOSER W HOLD OPEN OPTION PULL SIDE MOUNTED (BOD LCN 3130, FINISH)
 1 EPT POWER TRANSFER
 1 KICKPLATE
 1 CARD READER

#2 - CASHROOM @ B2 LEVEL
 FUNCTION: OFFICE LOCK
 SECURITY REQUIREMENTS: DOOR SHALL BE ELECTRICALLY LOCKED (FAIL SECURE WITH INTEGRATED REQUESTED TO EXIT. THE OUTSIDE KNOB/LEVER IS CONTINUOUSLY LOCKED. LATCHED BOLT IS RETRACTED BY KEY OUTSIDE OR BY KNOB/LEVER INSIDE. ELECTRONICALLY CONTROLLED SWITCH ALLOWS OUTSIDE KNOB/LEVER INSIDE. ELECTRONICALLY CONTROLLED SWITCH ALLOWS OUTSIDE KNOB/LEVER TO RETRACT LATCH-BOLT. AUXILIARY LATCH (ALSO KNOWN AS DOUBLE LATCH. DEADLOCKS LATCH-BOLTS WHEN DOOR IS CLOSED. INSIDE KNOB/LEVER IS ALWAYS FREE FOR IMMEDIATE EXIT. A MICRO-SWITCH POSITIONED INSIDE THE LOCK CASE (INTEGRATED REQUEST-TO-EXIT DEVICE) IS ACTIVATED WHEN THE INSIDE KNOB/LEVER IS ROTATED.
 3 HEAVY DUTY FULL MORTISE BUTT HINGES: BB1279-4.5X4.5 NRP. HAGER. FINISH: 626.
 1 ELECTRIFIED MORTISE LOCK W CUSTOM BLDG LEVER HANDLE: BOD SCHLAGE L9092EU (FINISH PER BLDG STANDARD)
 1 STRIKE (FINISH TO MATCH LOCKSET)
 1 CLOSER W HOLD OPEN OPTION PULL SIDE MOUNTED (BOD LCN 3130, FINISH)
 1 EPT POWER TRANSFER
 CARD READER

#3 - FOG ROOM @ MEZZANINE LEVEL
 FUNCTION: STOREROOM LOCK
 3 HEAVY DUTY FULL MORTISE BUTT HINGES: BB1279-4.5X4.5 NRP. HAGER. FINISH: 626.
 1 MORTISE LOCK W CUSTOM BLDG LEVER HANDLE: BOD SCHLAGE L9080 ANSI F07 (FINISH PER BLDG STANDARD)
 1 STRIKE
 1 CLOSER W HOLD OPEN OPTION PULL SIDE MOUNTED (BOD LCN 3130, FINISH)



FOR CONSTRUCTION



DATE	07/18/24	SUBMISSION	Final Construction Documents
REVISION #	DATE	REVISION DESCRIPTION	



DESIGNED NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	SCHEDULES
WORKING STAFF	DESIGNED BY: N/A, DRAWN BY: NN, CHECKED BY: MR

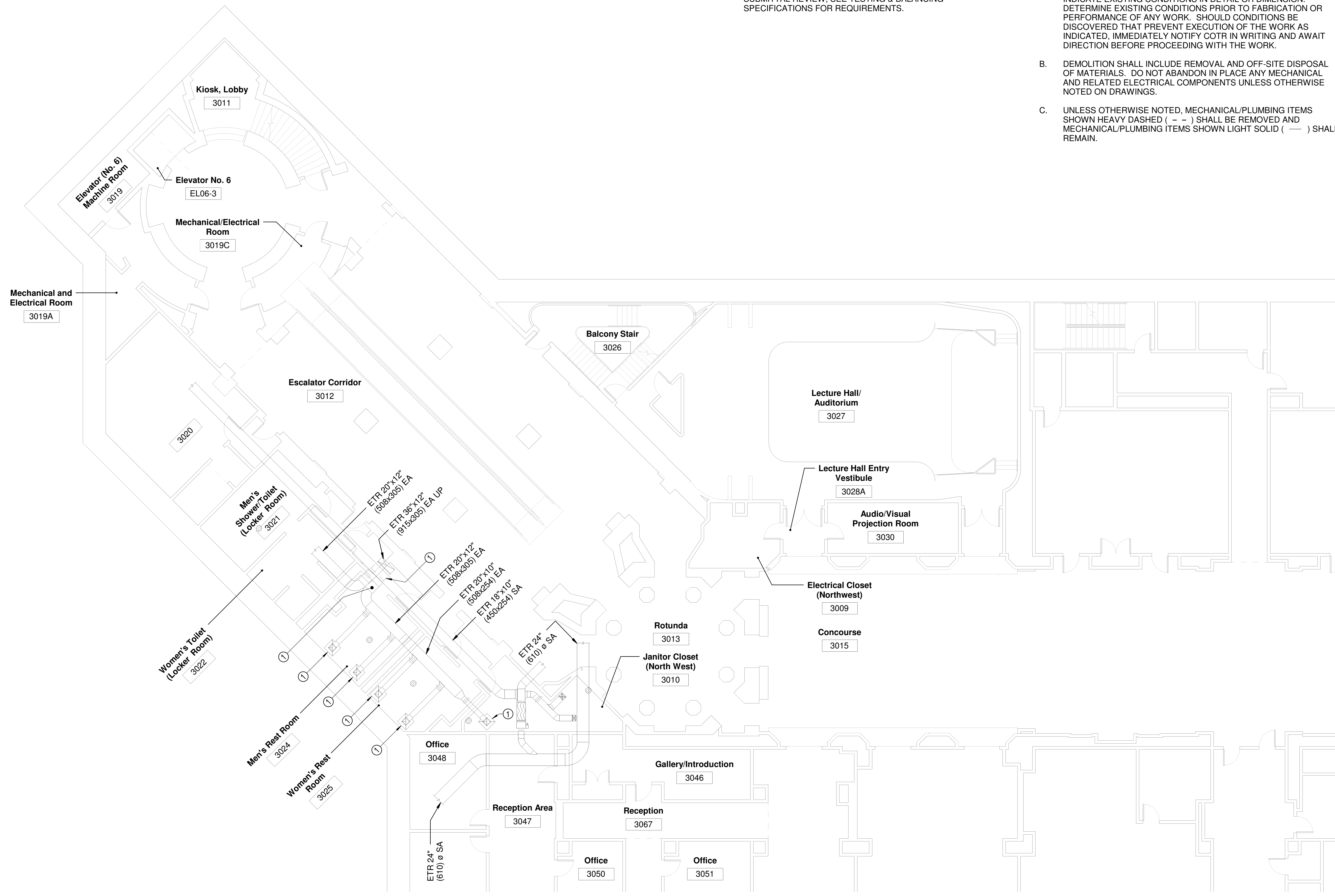
SHEET NO.	A - 600
30 of 103	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

SPECIFIC NOTES:

- ① MEASURE AND RECORD EXISTING AIRFLOW PRIOR TO CONSTRUCTION. PROVIDE AIRFLOW MEASUREMENTS TO COTR FOR REVIEW. TAB REVIEW SHALL BE SUBMITTED AS A SUBMITTAL REVIEW. SEE TESTING & BALANCING SPECIFICATIONS FOR REQUIREMENTS.

GENERAL NOTES:

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY MECHANICAL AND RELATED ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- C. UNLESS OTHERWISE NOTED, MECHANICAL/PLUMBING ITEMS SHOWN HEAVY DASHED (- -) SHALL BE REMOVED AND MECHANICAL/PLUMBING ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.



B3 LEVEL HVAC DEMOLITION FLOOR PLAN

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

1
MD101

architrave p.c.
420 10th Street SE
Washington DC 20003

FOR CONSTRUCTION

James Posey Associates
Mechanical & Electrical Consulting Engineers
1155 Red Run Boulevard, Suite 310
Baltimore, Maryland 21117
tel 410-265-0100
jamesposey.com

DISTRICT OF COLUMBIA
No. 905
REGISTERED PROFESSIONAL ENGINEER

LEVEL B3

KEY PLAN

0 4' 8' 16'

1/8" = 1'-0"

GRAPHIC SCALE(S)

DATE	07/18/24	REVISION	Final Construction Documents
REVISION #		REVISION DESCRIPTION	

Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W., Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA	
ADDRESS	12th and Independence Avenue, SW, Washington DC	
PROJECT TITLE	CAFE AT SACKLER PAVILION	
SF PROJECT NUMBER	2209110	
A/E PROJECT NUMBER	1401.54	
DRAWING TITLE	HVAC FLOOR PLAN - DEMOLITION	
WORKING STAFF	ZMH DKR JSC	
DESIGNED BY	DRAWN BY	CHECKED BY

SHEET NO.	MD 101
32 of 103	

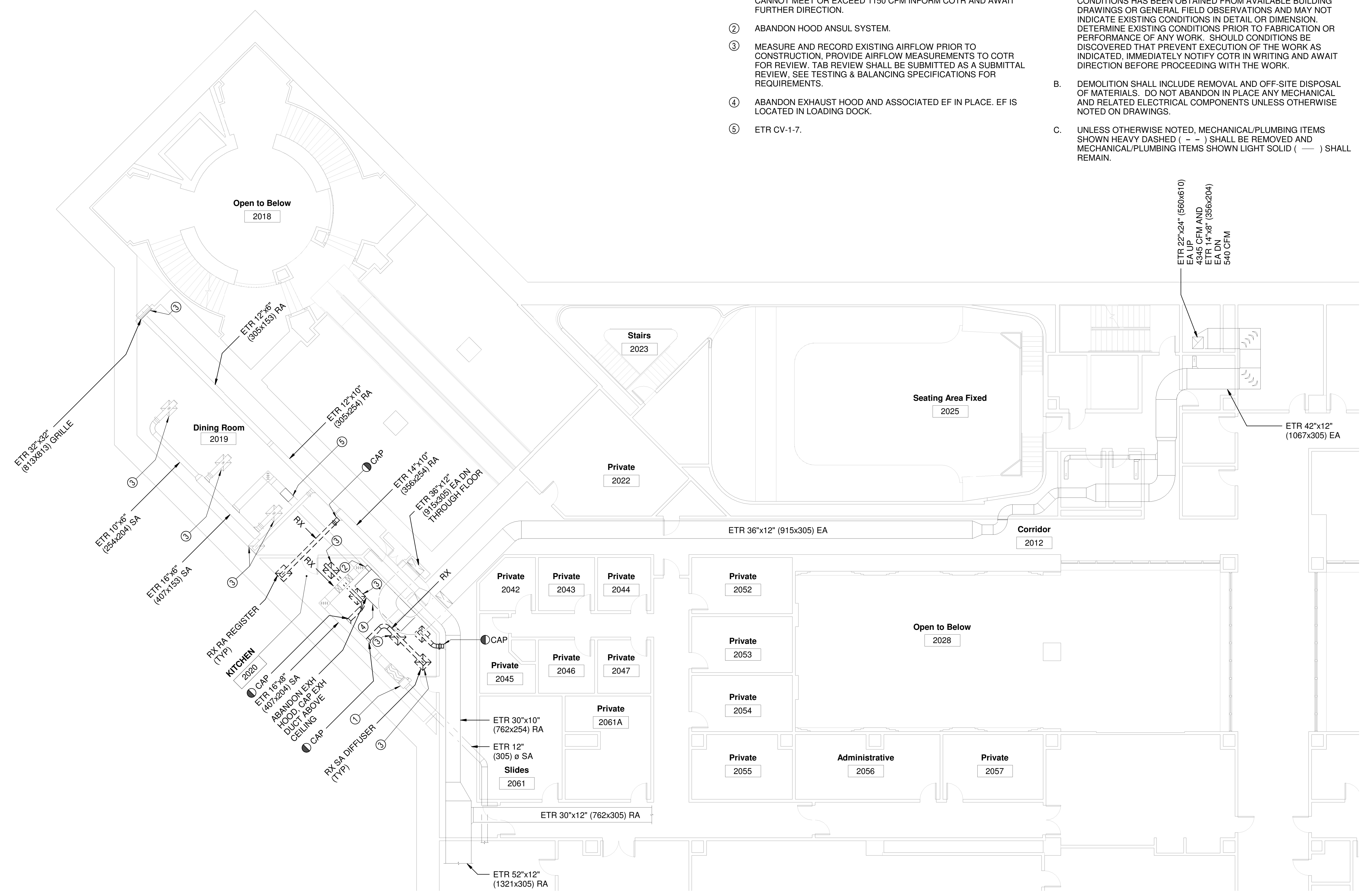
7/18/2024 6:51:27 AM MD101 BY Approver 07/18/24 Final Construction Documents

SPECIFIC NOTES:

- ① CONFIRM ETR BOX CAN MEET OR EXCEED 1150 CFM. IF ETR BOX CANNOT MEET OR EXCEED 1150 CFM INFORM COTR AND AWAIT FURTHER DIRECTION.
- ② ABANDON HOOD ANSUL SYSTEM.
- ③ MEASURE AND RECORD EXISTING AIRFLOW PRIOR TO CONSTRUCTION. PROVIDE AIRFLOW MEASUREMENTS TO COTR FOR REVIEW. TAB REVIEW SHALL BE SUBMITTED AS A SUBMITTAL REVIEW. SEE TESTING & BALANCING SPECIFICATIONS FOR REQUIREMENTS.
- ④ ABANDON EXHAUST HOOD AND ASSOCIATED EF IN PLACE. EF IS LOCATED IN LOADING DOCK.
- ⑤ ETR CV-1-7.

GENERAL NOTES:

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
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- C. UNLESS OTHERWISE NOTED, MECHANICAL/PLUMBING ITEMS SHOWN HEAVY DASHED (- -) SHALL BE REMOVED AND MECHANICAL/PLUMBING ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.



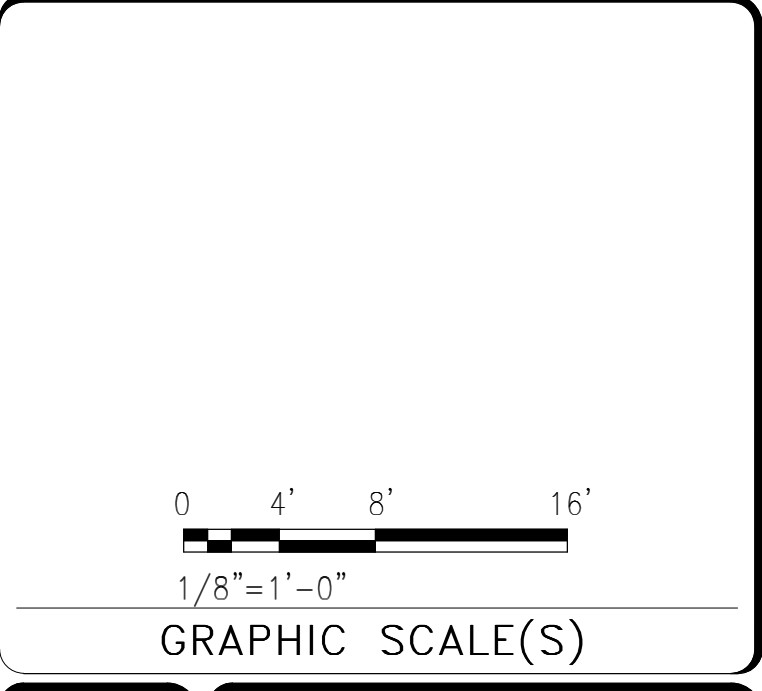
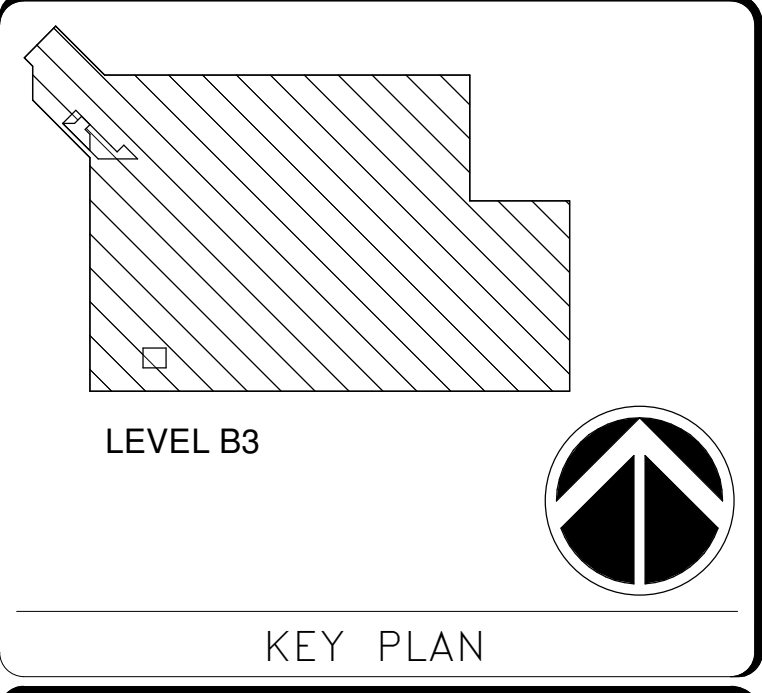
B2 LEVEL HVAC DEMOLITION FLOOR PLAN
SCALE = 1/8" = 1'-0"

architrave p.c.
420 10th Street SE
Washington DC 20003

FOR CONSTRUCTION

James Posey Associates
Mechanical & Electrical Consulting Engineers
1155 Red Run Boulevard, Suite 310
Baltimore, Maryland 21117
tel 410-265-0100
jamesposey.com

DISTRICT OF COLUMBIA
No. 90528
REGISTERED PROFESSIONAL ENGINEER (MECH)



DATE	07/18/24	REVISION	Final Construction Documents
DESIGNER	ZMH	DATE	
REVISION #		REVISION DESCRIPTION	

Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W., Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	HVAC FLOOR PLAN - DEMOLITION
WORKING STAFF	ZMH DKR JSC
DESIGNED BY	ZMH
DRAWN BY	DKR
CHECKED BY	JSC

SHEET NO.	MD 102
33 of 103	

7/18/2024 6:51:29 AM MD102 BY Approver 07/18/24 Final Construction Documents

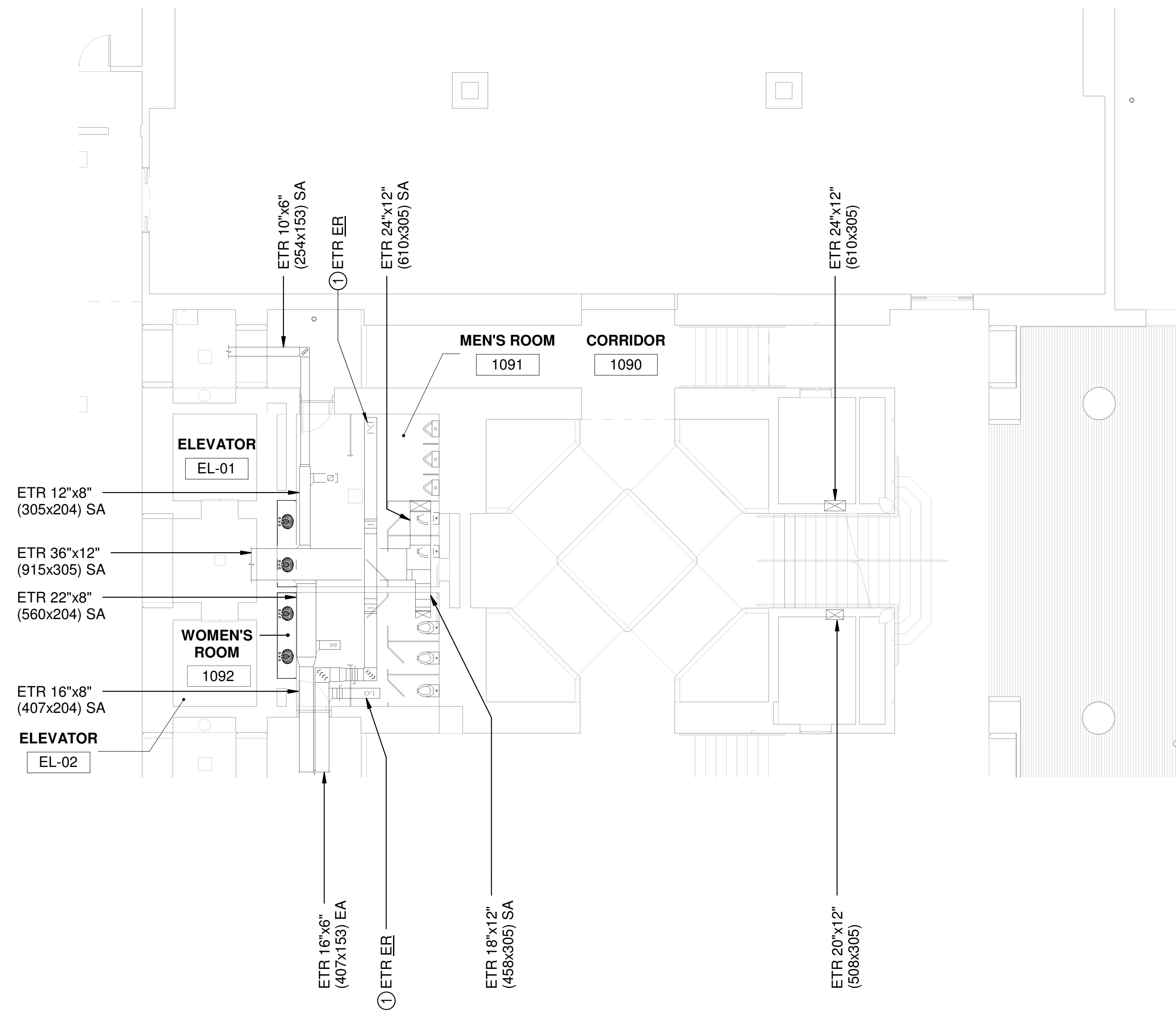
1 MD102

SPECIFIC NOTES:

- ① MEASURE AND RECORD EXISTING AIRFLOW PRIOR TO CONSTRUCTION, PROVIDE AIRFLOW MEASUREMENTS TO COTR FOR REVIEW. TAB REVIEW SHALL BE SUBMITTED AS A SUBMITTAL REVIEW, SEE TESTING & BALANCING SPECIFICATIONS FOR REQUIREMENTS.

GENERAL NOTES:

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY MECHANICAL AND RELATED ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- C. UNLESS OTHERWISE NOTED, MECHANICAL/PLUMBING ITEMS SHOWN HEAVY DASHED (- -) SHALL BE REMOVED AND MECHANICAL/PLUMBING ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.



B1 LEVEL HVAC DEMOLITION FLOOR PLAN
SCALE = 1/8" = 1'-0"

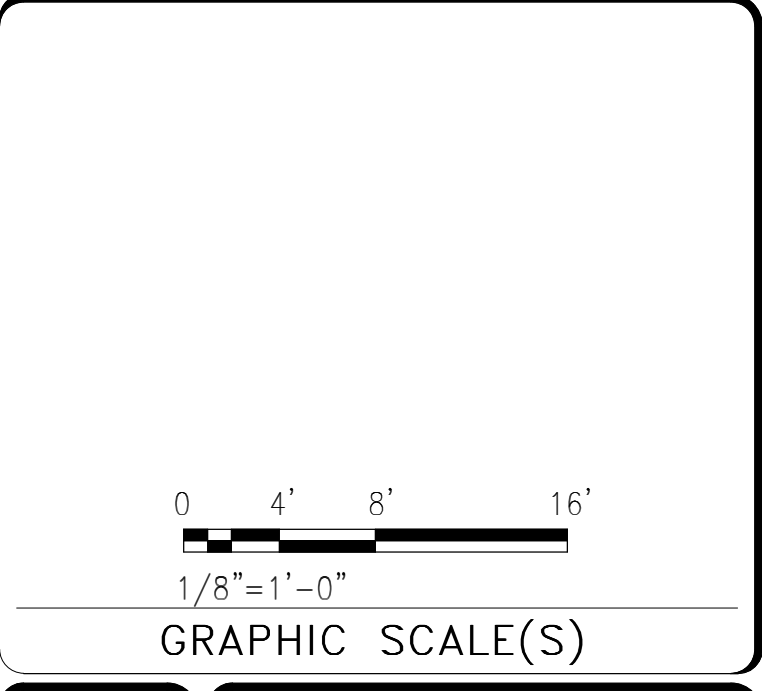
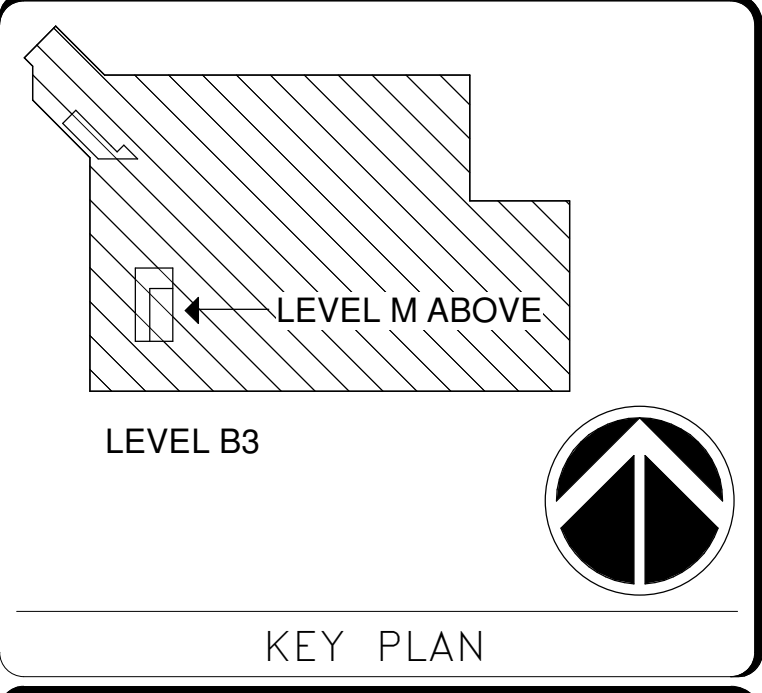
7/18/2024 6:51:31 AM MD103 BY Approver 07/18/24 Final Construction Documents

architrave p.c.
420 10th Street SE
Washington DC 20003

FOR CONSTRUCTION

James Posey Associates
Mechanical & Electrical Consulting Engineers
1155 Red Run Boulevard, Suite 310
Baltimore, Maryland 21117
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jamesposey.com

DISTRICT OF COLUMBIA
No. 905287
REGISTERED PROFESSIONAL ENGINEER



DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	REVISION DESCRIPTION	

Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W., Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	HVAC FLOOR PLAN - DEMOLITION
WORKING STAFF	ZMH DKR JSC
DESIGNED BY	DRAWN BY
CHECKED BY	

SHEET NO.	MD 103
34 of 103	

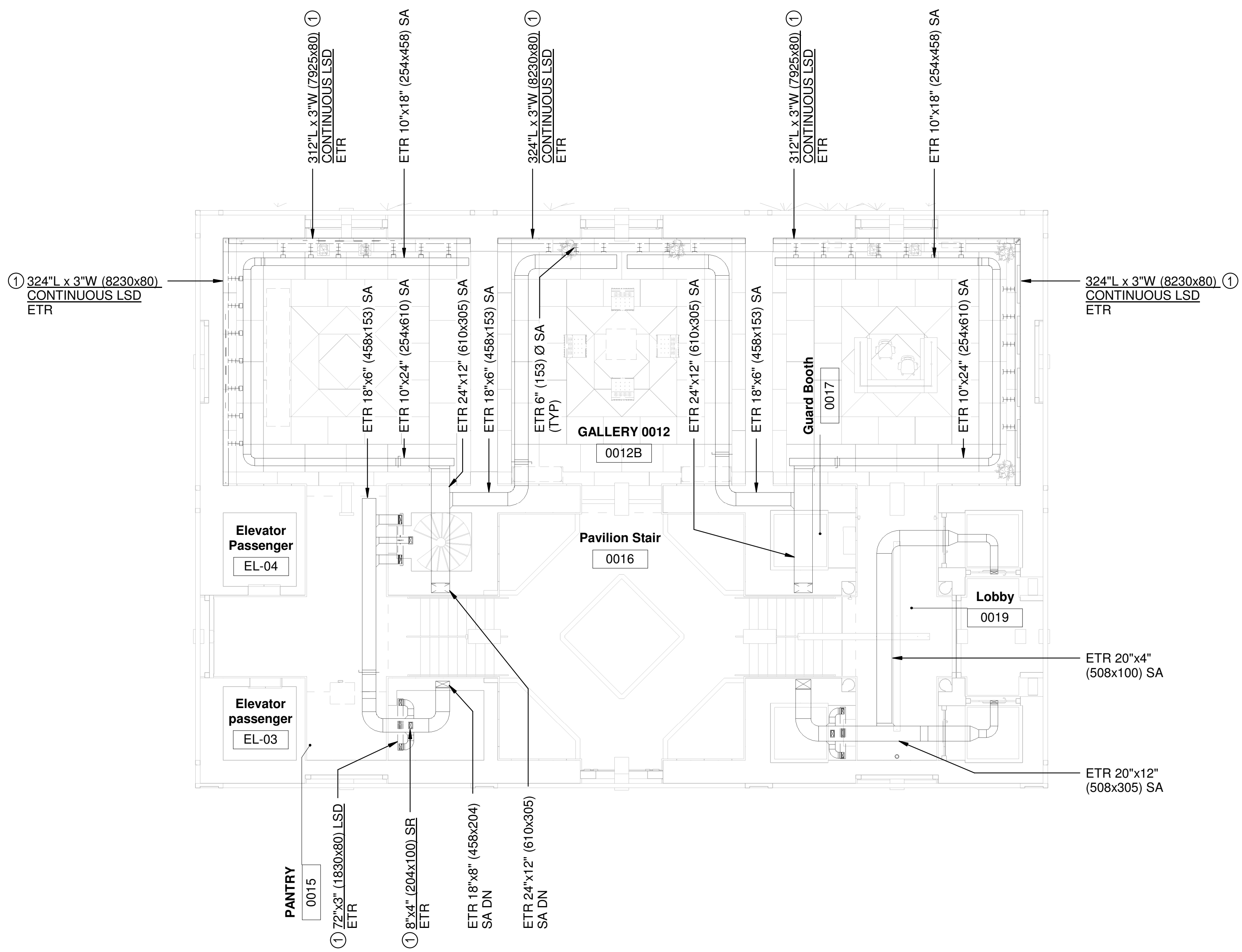
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MD104 BY Approver 07/18/24 Final Construction Documents

SPECIFIC NOTES:

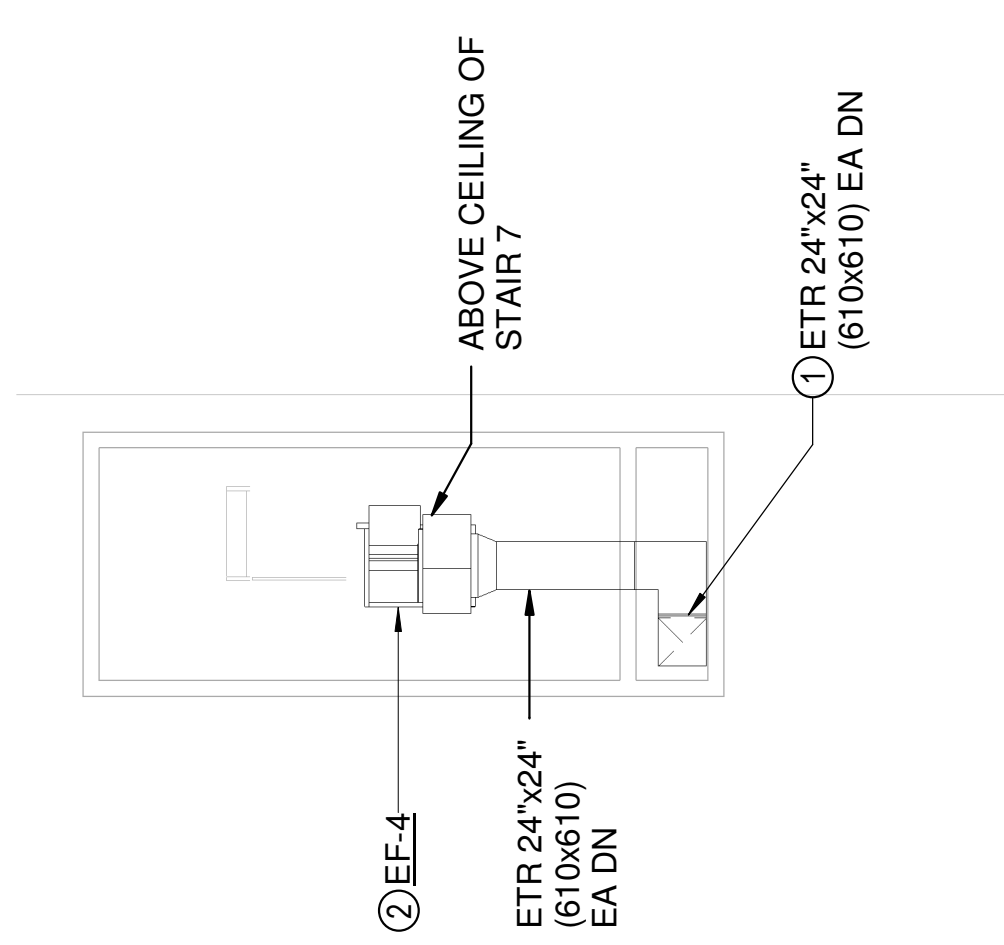
- ① PROVIDE DUCT TRAVERSE TO MEASURE AND RECORD AIRFLOW PRIOR TO ANY WORK BEING PERFORMED. THE CONTRACTOR SHALL COORDINATE WITH COTR TO ESTABLISH WHEN THE MEASUREMENT WILL OCCUR. SEE SPECIFICATIONS SECTION "230593 TESTING, ADJUSTING, & BALANCING". PROVIDE AND INSTALL PLUGS FOR SHEET METAL PORT HOLES MADE TO TRAVERSE AIRFLOW, IN MOST CASES METAL PORT HOLES ALREADY EXIST, UTILIZE EXISTING HOLES. PROVIDE NEW PORT HOLES AS REQUIRED.
- ② CONTRACTOR TO PERFORM COMPLETE AIR BALANCE REPORT FOR ETR EF. CONFIRM STATIC PRESSURE AND AIRFLOW. PROVIDE EXISTING FAN CURVE. CONTRACTOR SHALL SUBMIT REPORT TO COTR FOR REVIEW. ANALYSIS SHALL BE PERFORMED PRIOR TO ANY DEMOLITION WORK.
- ③ CONFIRM FLEXIBLE CONNECTIONS TO FAN HAVE BEEN REPLACED. IMMEDIATELY ALERT COTR IF DUCTWORK HAS NOT BEEN REPLACED.

GENERAL NOTES:

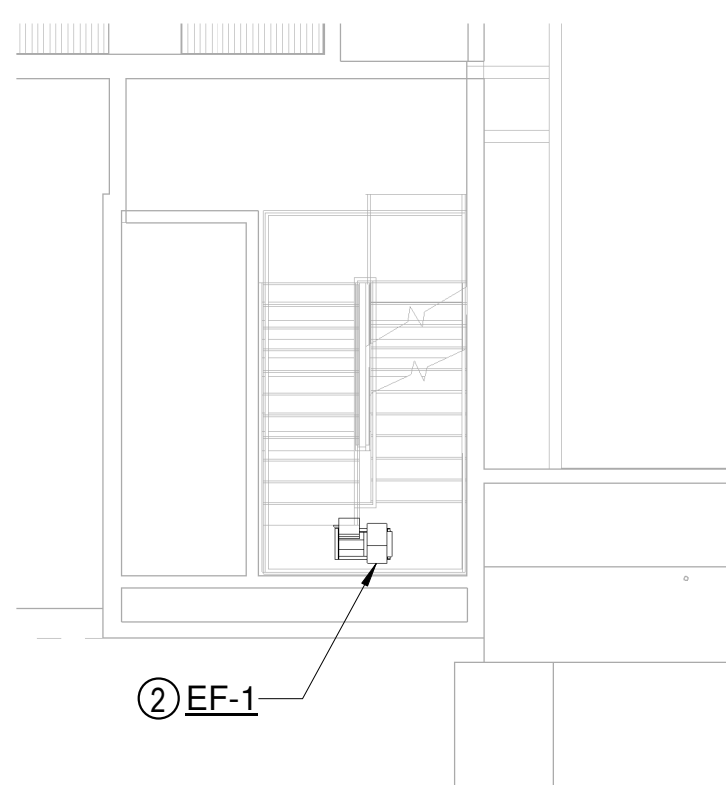
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY MECHANICAL AND RELATED ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- C. UNLESS OTHERWISE NOTED, MECHANICAL/PLUMBING ITEMS SHOWN HEAVY DASHED (- -) SHALL BE REMOVED AND MECHANICAL/PLUMBING ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.



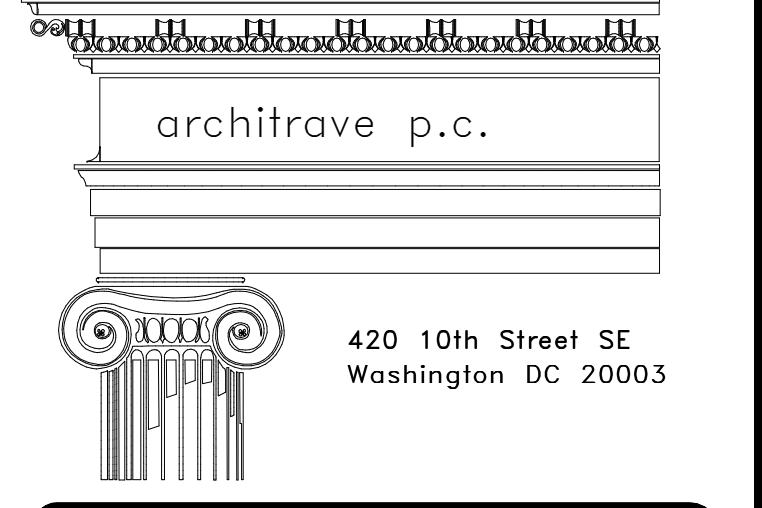
GROUND LEVEL HVAC DEMOLITION FLOOR PLAN
SCALE = 1/8" = 1'-0"



STAIR 7 HVAC DEMOLITION PLAN
SCALE = 1/8" = 1'-0"

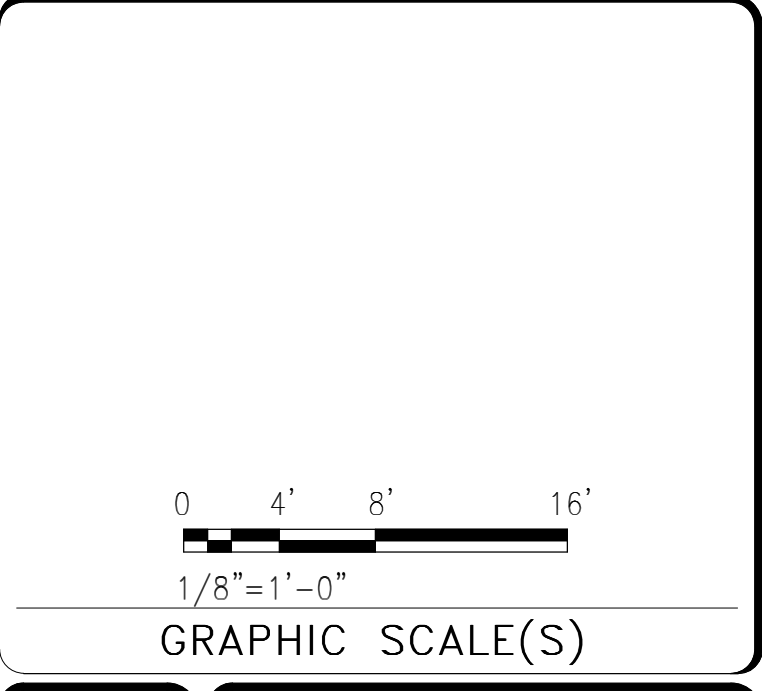
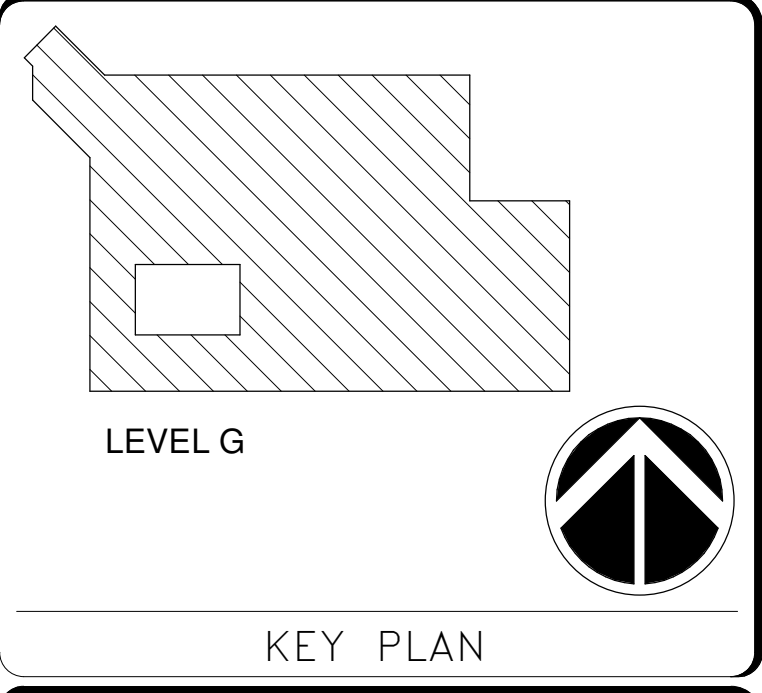


STAIR 2 HVAC DEMOLITION PLAN
SCALE = 1/8" = 1'-0"



FOR CONSTRUCTION

James Posey Associates
Mechanical & Electrical Consulting Engineers
1155 Red Run Boulevard, Suite 310
Baltimore, Maryland 21117
tel 410-265-0100
jamesposey.com
1949

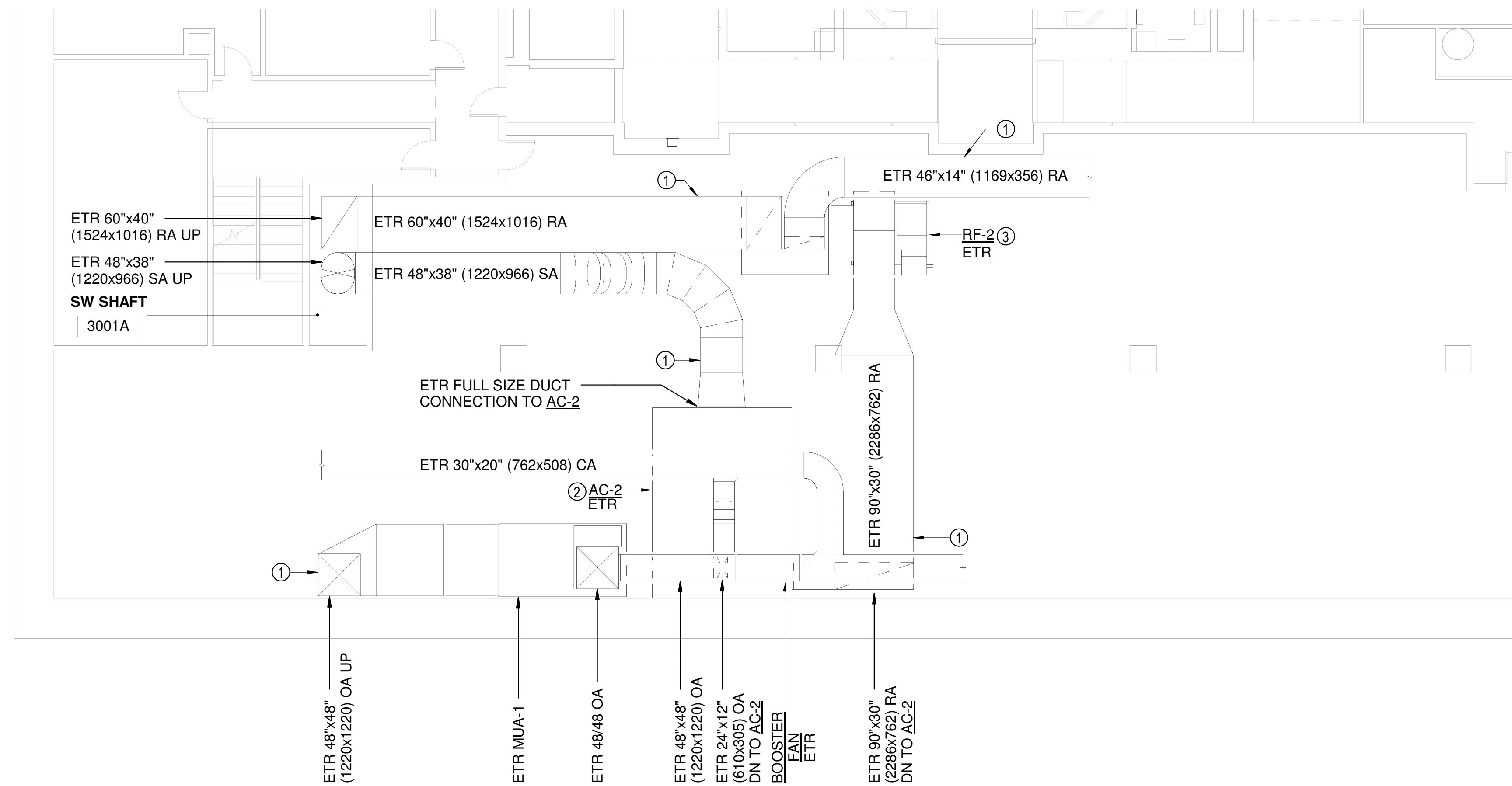


DATE	07/18/24	REVISION	Final Construction Documents
DESIGNER	ZMH	CHECKED	DKR
DRAWN	DKR	DATE	
DATE		DESCRIPTION	

Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W., Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	HVAC FLOOR PLANS - DEMOLITION
WORKING STAFF	ZMH DKR JSC
DESIGNED BY	ZMH
DRAWN BY	DKR
CHECKED BY	JSC

SHEET NO. **MD 104**
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1
WD401

B3 LEVEL HVAC DEMOLITION PART PLAN

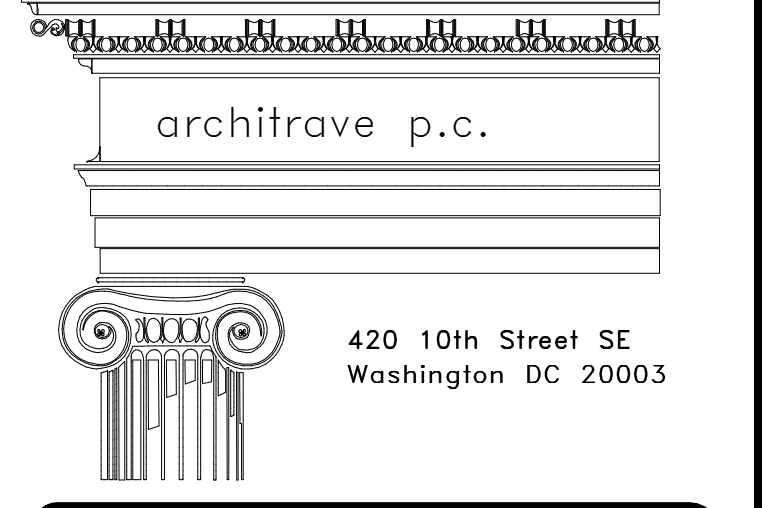
SCALE = 1/8" = 1'-0"

GENERAL NOTES:

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. DO NOT LOCATE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.

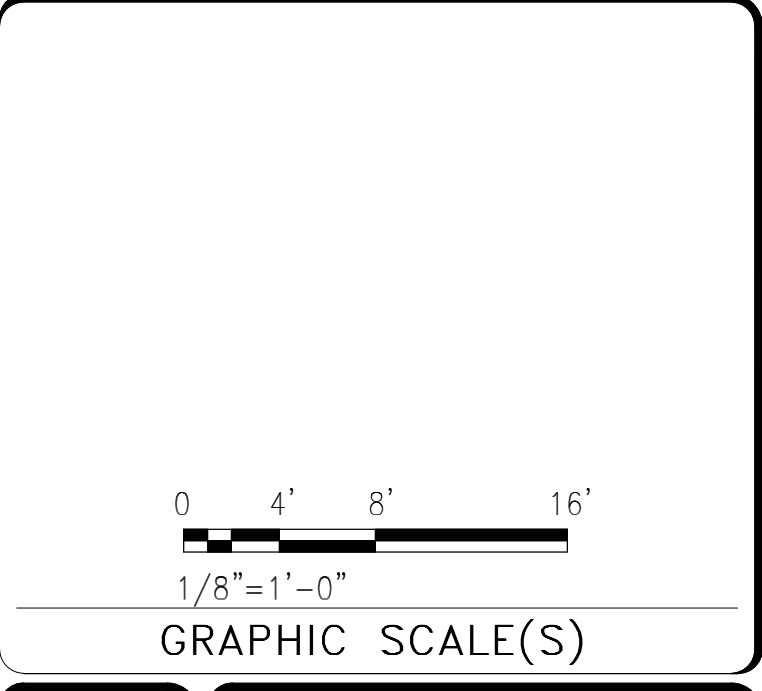
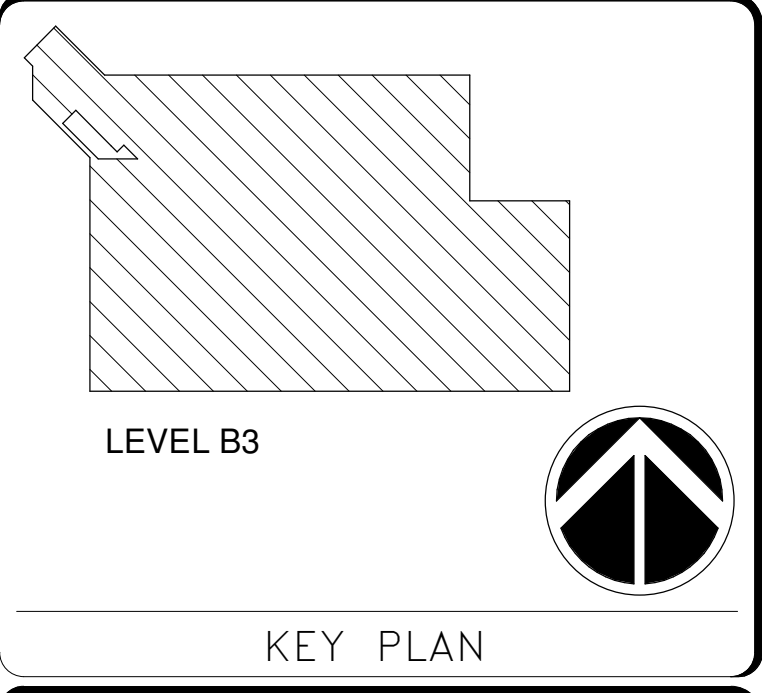
SPECIFIC NOTES:

- ① PROVIDE DUCT TRAVERSE TO MEASURE AND RECORD AIRFLOW PRIOR TO ANY WORK BEING PERFORMED. THE CONTRACTOR SHALL COORDINATE WITH COTR TO ESTABLISH WHEN THE MEASUREMENT WILL OCCUR. SEE SPECIFICATIONS SECTION "230593 TESTING, ADJUSTING, & BALANCING". PROVIDE AND INSTALL PLUGS FOR SHEET METAL PORT HOLES MADE TO TRAVERSE AIRFLOW. IN MOST CASES METAL PORT HOLES ALREADY EXIST. UTILIZE EXISTING HOLES. PROVIDE NEW PORT HOLES AS REQUIRED.
- ② CONTRACTOR TO PERFORM COMPLETE AIR & WATER BALANCE REPORT FOR ETR AC-2. CONFIRM TSP, ESP, CFM, CHILLED WATER FLOW, HEATING WATER FLOW & VELOCITIES ACROSS BOTH COILS. CONTRACTOR SHALL SUBMIT REPORT TO COTR FOR REVIEW. ANALYSIS SHALL BE PERFORMED PRIOR TO ANY DEMOLITION WORK.
- ③ CONTRACTOR TO PERFORM COMPLETE AIR BALANCE REPORT FOR FAN. CONFIRM STATIC PRESSURE AND AIRFLOW, PROVIDE EXISTING FAN CURVE. CONTRACTOR SHALL SUBMIT REPORT TO COTR FOR REVIEW. ANALYSIS SHALL BE PERFORMED PRIOR TO ANY DEMOLITION WORK.



FOR CONSTRUCTION

James Posey Associates
 Mechanical & Electrical Consulting Engineers
 1155 Red Run Boulevard, Suite 310
 Baltimore, Maryland 21117
 tel 410-265-0100
 jamesposey.com
 12/08



DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	REVISION DESCRIPTION	

Smithsonian Institution

Smithsonian Facilities
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	HVAC PART PLAN - DEMOLITION
WORKING STAFF	ZMH DKR JSC
DESIGNED BY	DRAWN BY
CHECKED BY	

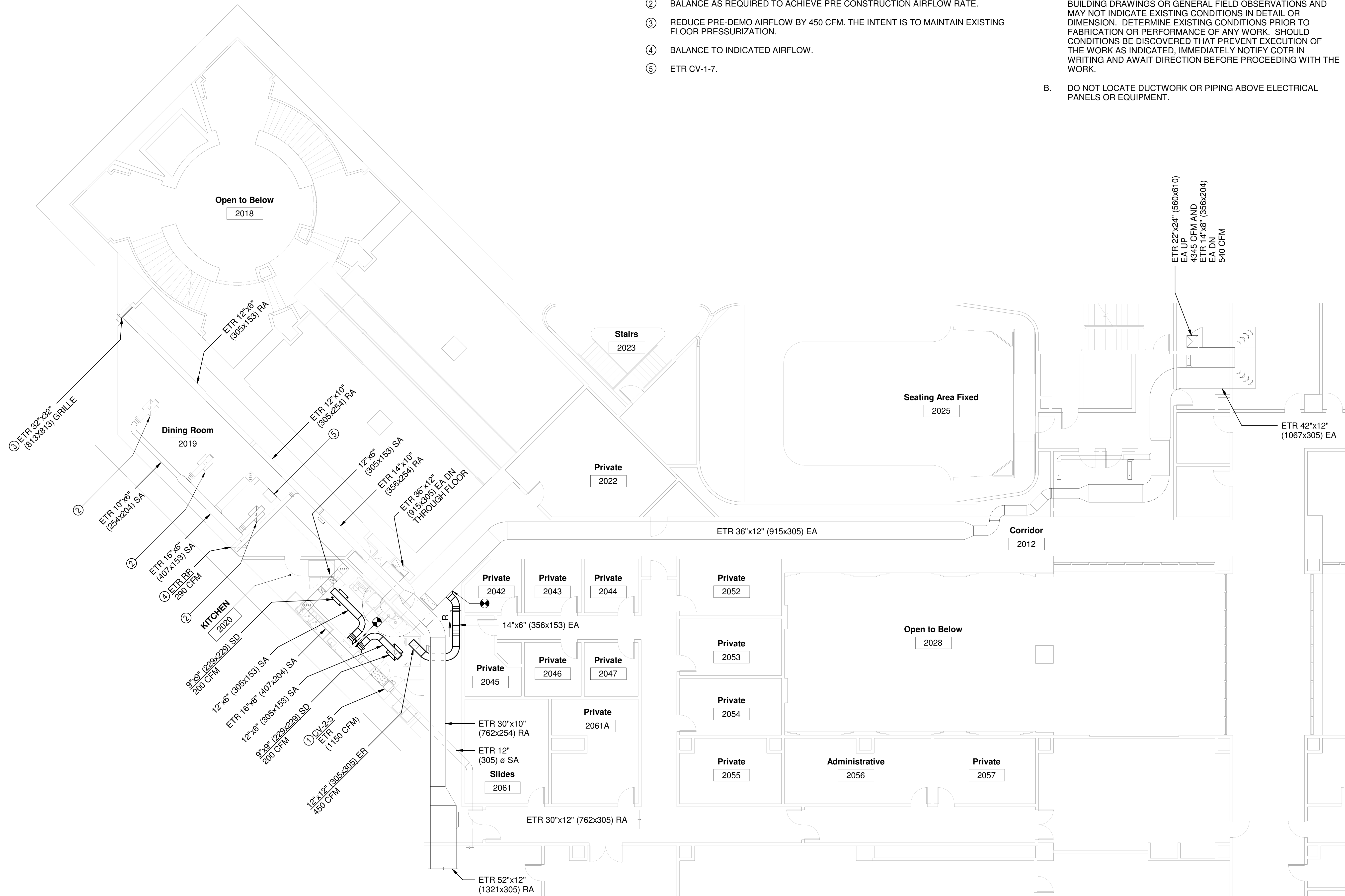
SHEET NO. MD 4 0 1
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SPECIFIC NOTES:

- ① EXISTING TERMINAL UNIT WITH HYDRONIC HEATING COIL. BALANCE TO CFM NOTED.
- ② BALANCE AS REQUIRED TO ACHIEVE PRE CONSTRUCTION AIRFLOW RATE.
- ③ REDUCE PRE-DEMO AIRFLOW BY 450 CFM. THE INTENT IS TO MAINTAIN EXISTING FLOOR PRESSURIZATION.
- ④ BALANCE TO INDICATED AIRFLOW.
- ⑤ ETR CV-1-7.

GENERAL NOTES:

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
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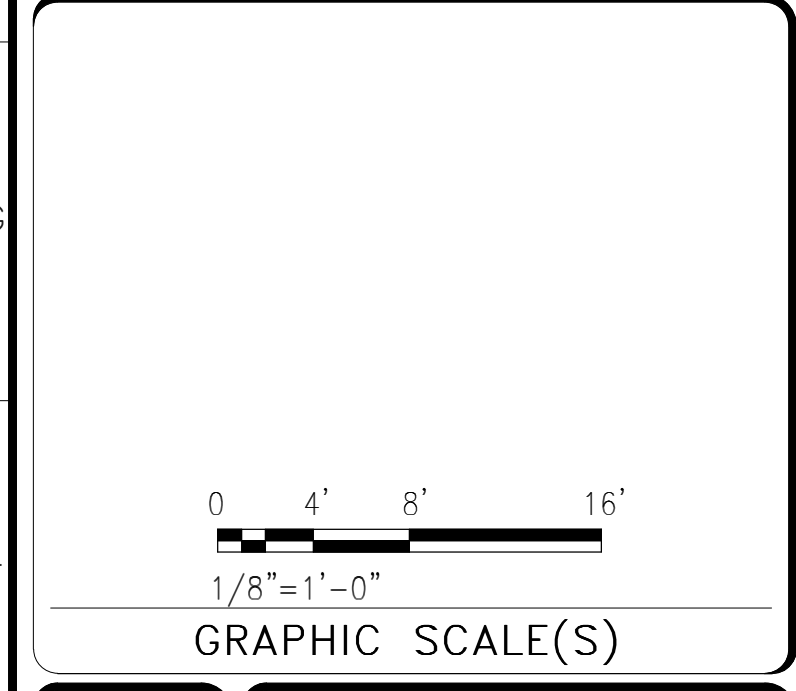
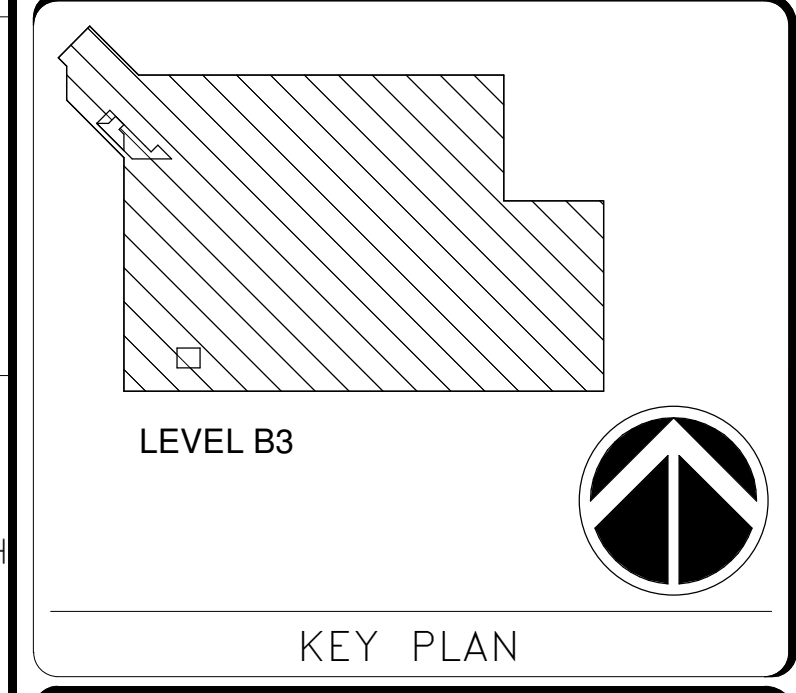
B2 LEVEL HVAC FLOOR PLAN
SCALE = 1/8" = 1'-0"

architrave p.c.
420 10th Street SE
Washington DC 20003

FOR CONSTRUCTION

James Posey Associates
Mechanical & Electrical Consulting Engineers
1155 Red Run Boulevard, Suite 310
Baltimore, Maryland 21117
tel 410-265-6100
jamesposey.com

DISTRICT OF COLUMBIA
No. 9058
REGISTERED PROFESSIONAL ENGINEER (MECH)



DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	REVISION DESCRIPTION	

Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W., Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	HVAC FLOOR PLAN
WORKING STAFF	ZMH DKR JSC
DESIGNED BY	ZMH
DRAWN BY	DKR
CHECKED BY	JSC

SHEET NO.	M - 102
38 of 103	

7/18/2024 6:51:20 AM M-102 BY Approver 07/18/24 Final Construction Documents

1
M-102

SPECIFIC NOTES:

- ① BALANCE TO INDICATED AIRFLOW.

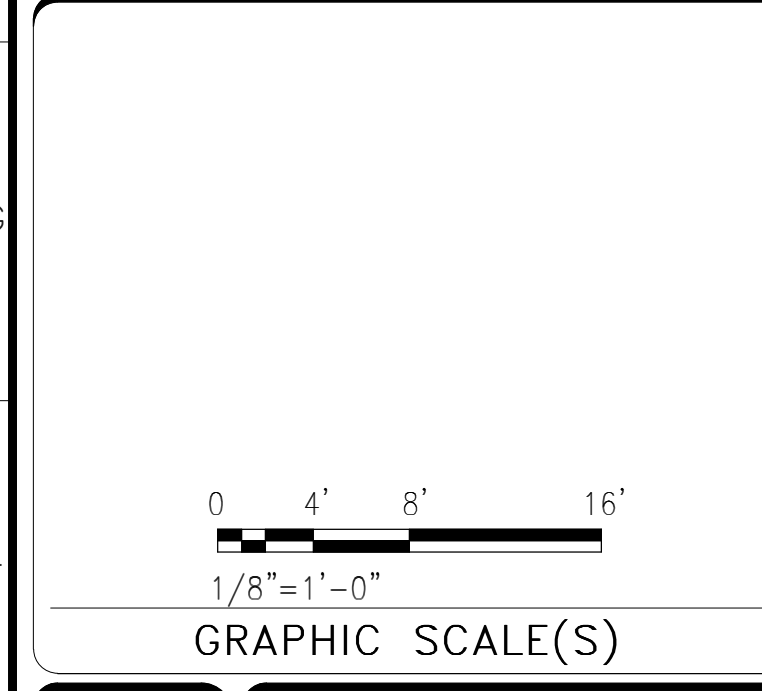
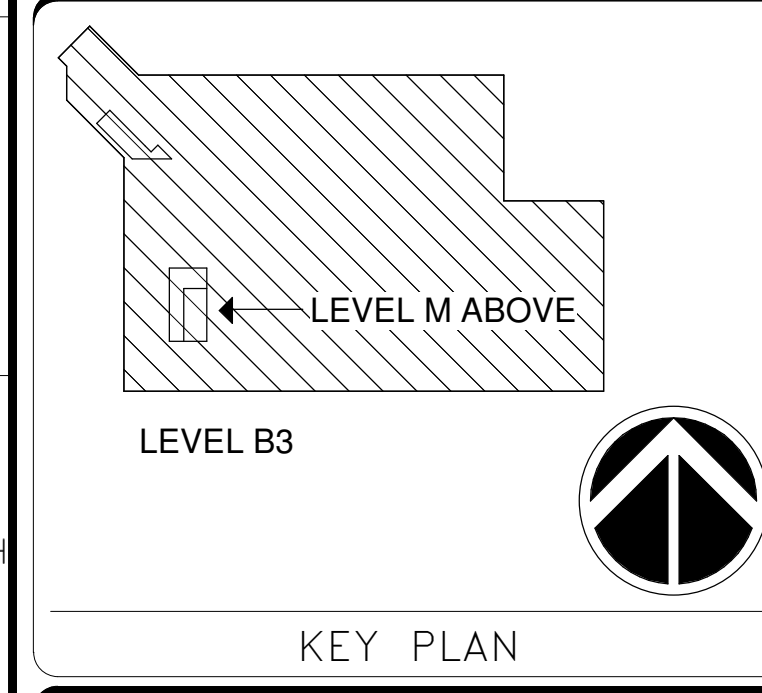
GENERAL NOTES:

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FOR CONSTRUCTION

James Posey Associates
 Mechanical & Electrical Consulting Engineers
 1155 Red Run Boulevard, Suite 310
 Baltimore, Maryland 21117
 tel 410-265-6100
 jamesposey.com
 12/20/07

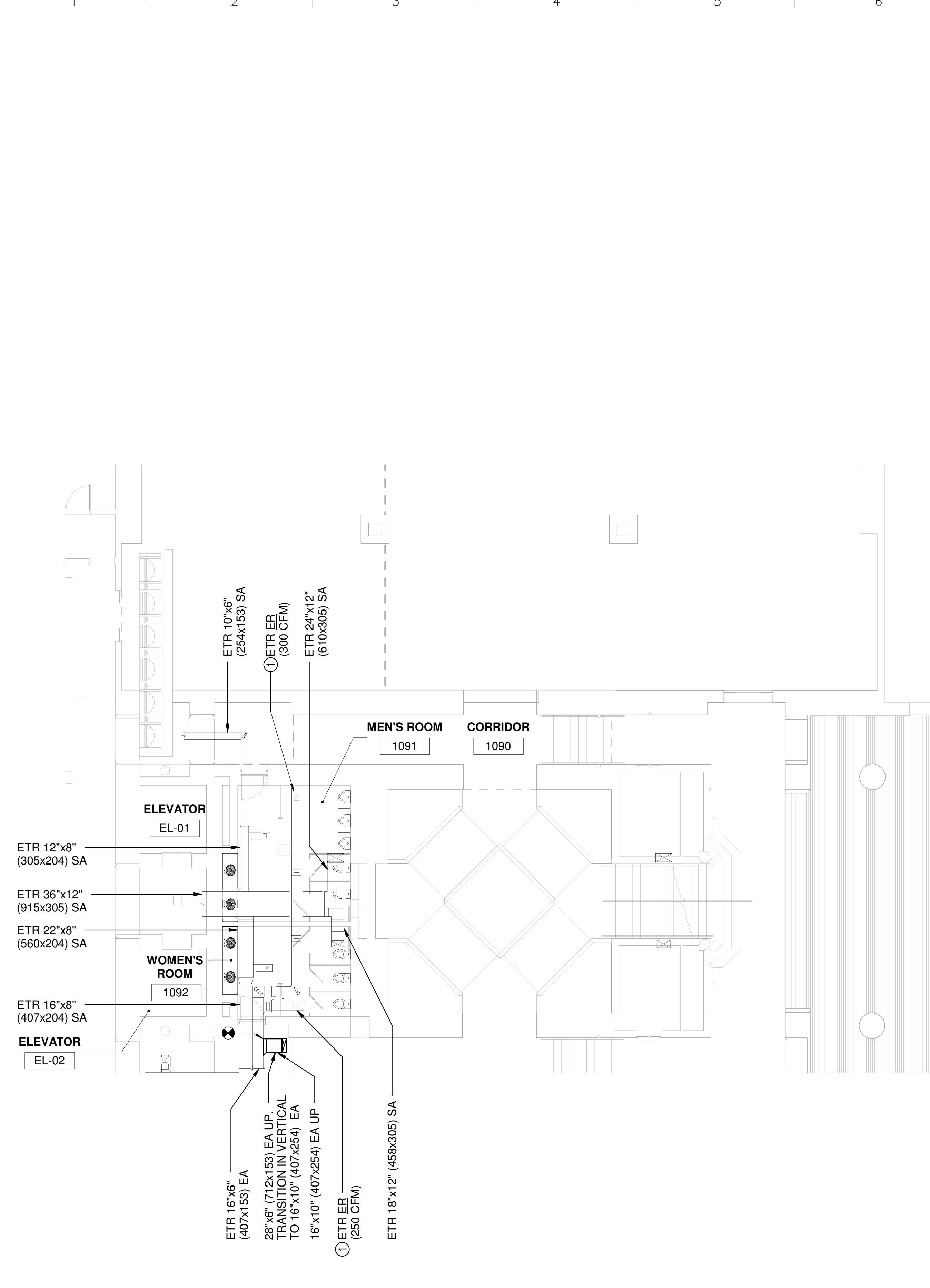


DATE	07/18/24	DESCRIPTION	Final Construction Documents
VERSION #		REVISION DESCRIPTION	

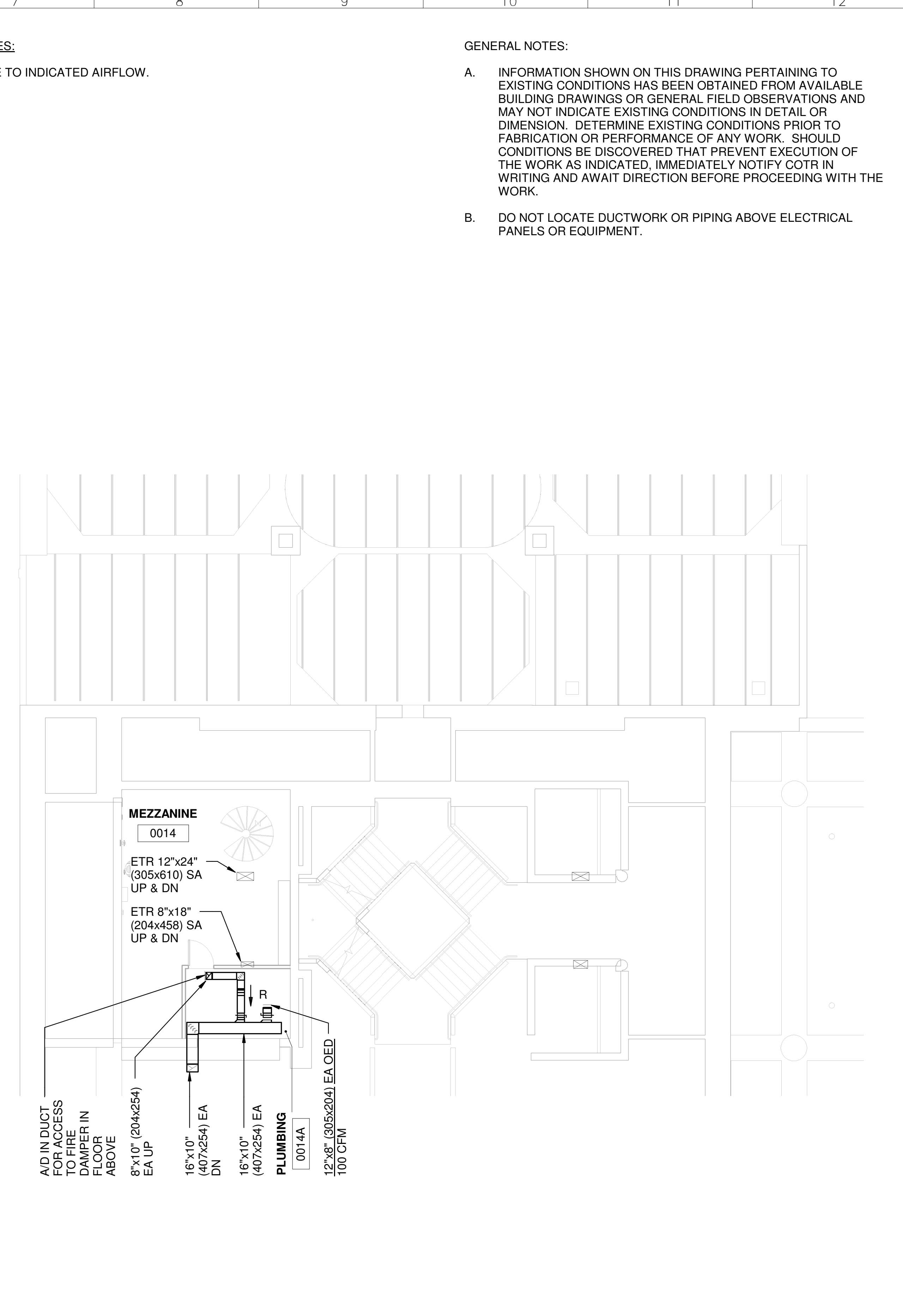
Smithsonian Institution
 Smithsonian Facilities
 600 Maryland Avenue S.W., Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	HVAC FLOOR PLANS
WORKING STAFF	ZMH DKR JSC
DESIGNED BY	ZMH
DRAWN BY	DKR
CHECKED BY	JSC

SHEET NO. **M-103**
 39 of 103



B1 LEVEL HVAC FLOOR PLAN
 SCALE = 1/8" = 1'-0"



MEZZANINE HVAC FLOOR PLAN
 SCALE = 1/8" = 1'-0"

7/18/2024 6:51:22 AM M-103 BY Approver 07/18/24 Final Construction Documents

SPECIFIC NOTES:

- ① MOUNT BOTTOM OF GRILLE 84" (2134) AFF.

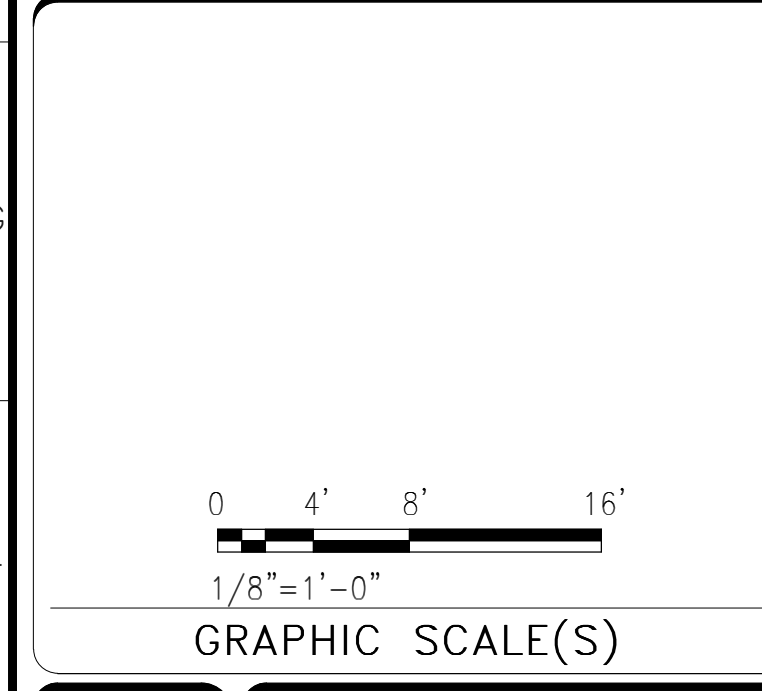
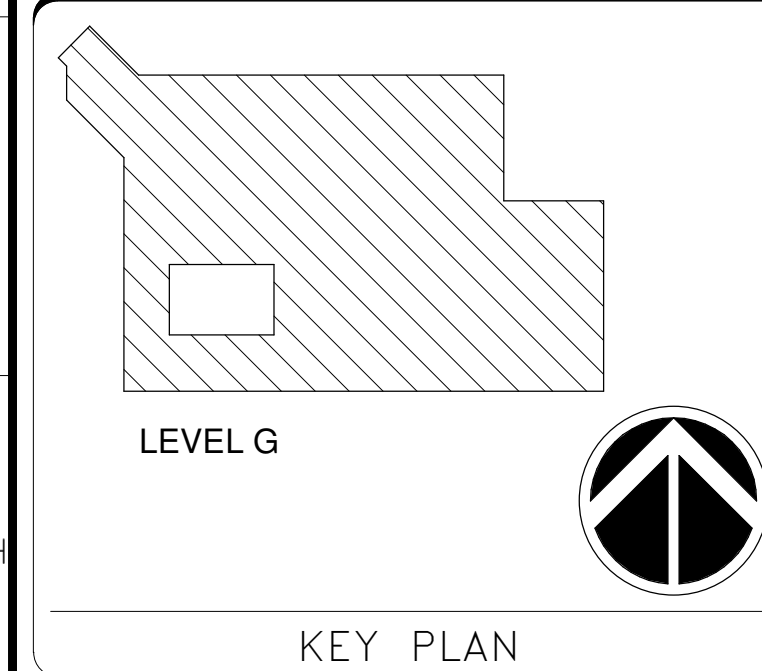
GENERAL NOTES:

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. DO NOT LOCATE DUCTWORK OR PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.



FOR CONSTRUCTION

James Posey Associates
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 1155 Red Run Boulevard, Suite 310
 Baltimore, Maryland 21117
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 jamesposey.com
 12/2007

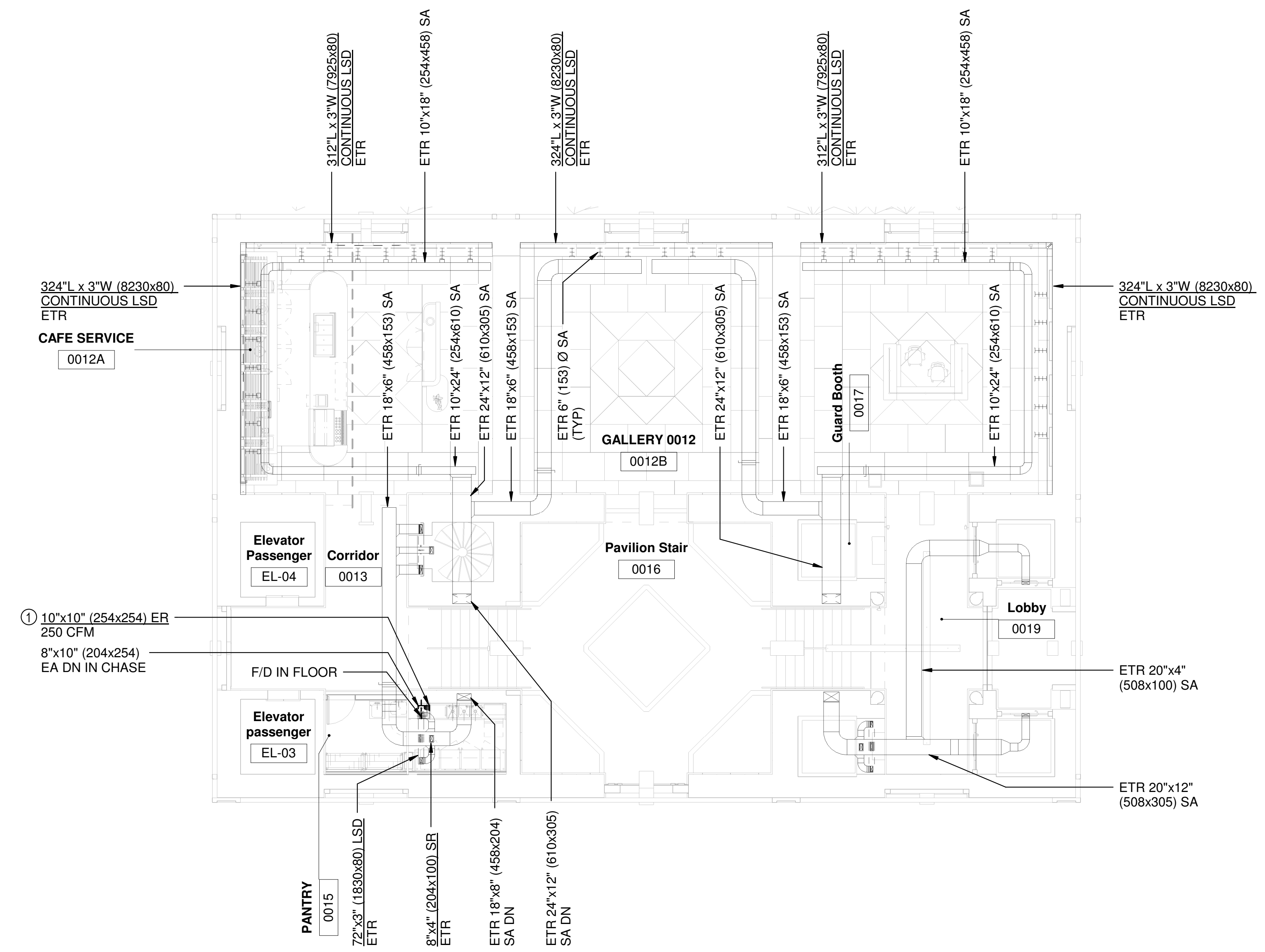


DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	REVISION DESCRIPTION	

Smithsonian Institution
 Smithsonian Facilities
 600 Maryland Avenue S.W., Suite 5001
 Washington, DC 20024-2520

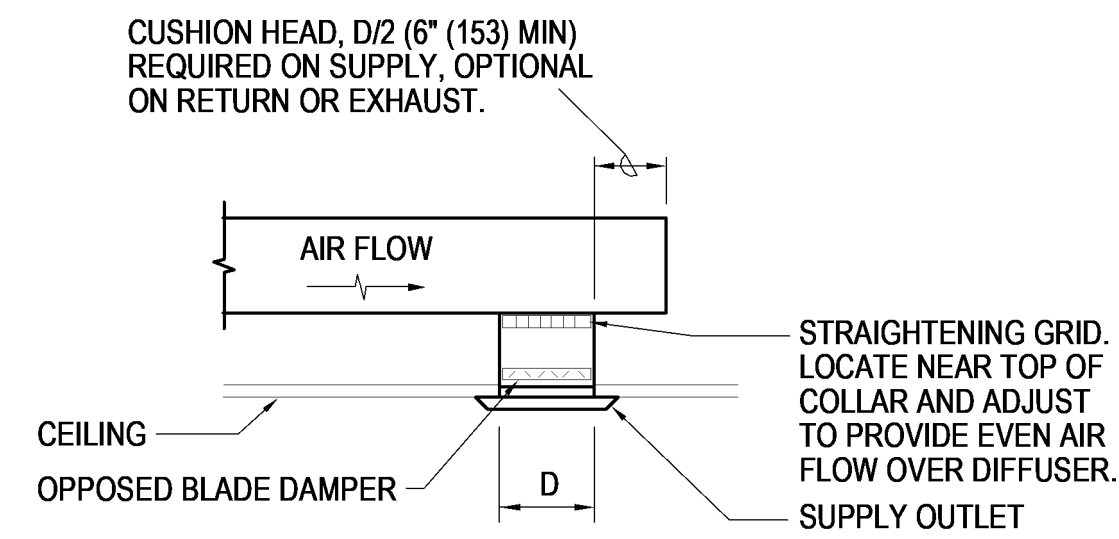
BUILDING NAME	NMAA	
ADDRESS	12th and Independence Avenue, SW, Washington DC	
PROJECT TITLE	CAFE AT SACKLER PAVILION	
SF PROJECT NUMBER	2209110	
A/E PROJECT NUMBER	1401.54	
DRAWING TITLE	HVAC FLOOR PLAN	
WORKING STAFF	ZMH DKR JSC	
DESIGNED BY	DRAWN BY	CHECKED BY

SHEET NO.	M - 104
40 of 103	

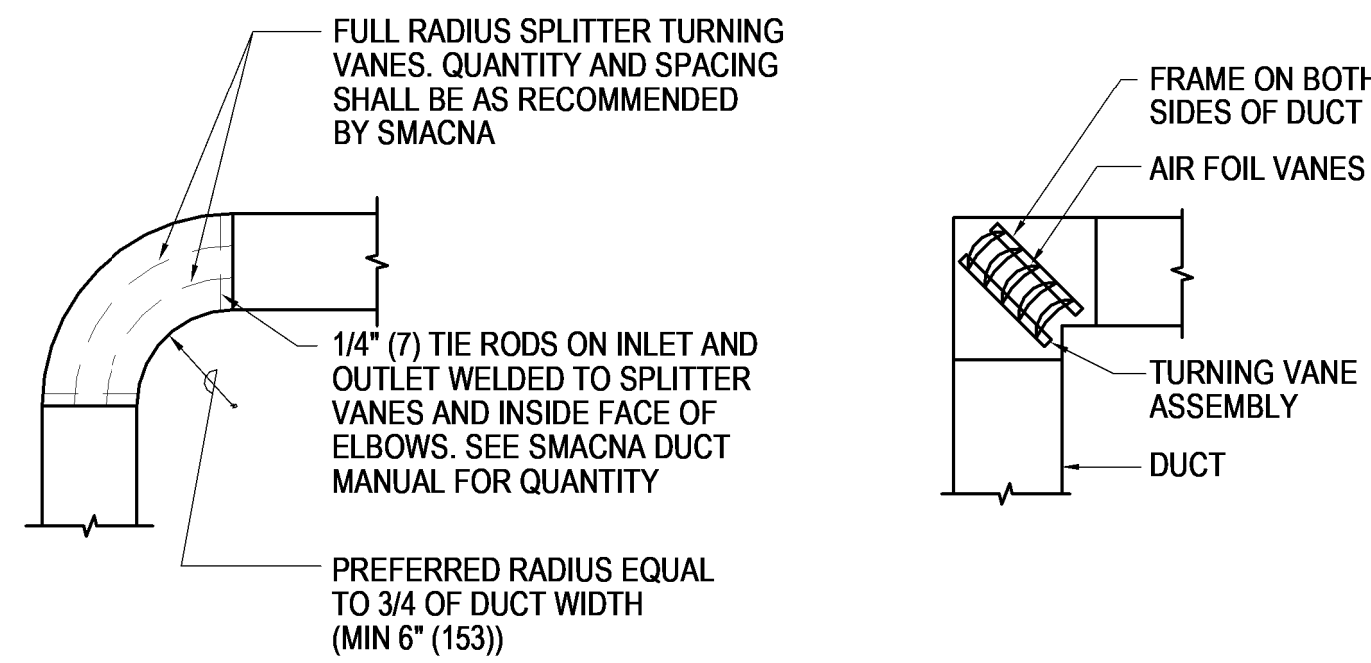


GROUND LEVEL HVAC FLOOR PLAN
 SCALE = 1/8" = 1'-0"

① M-104



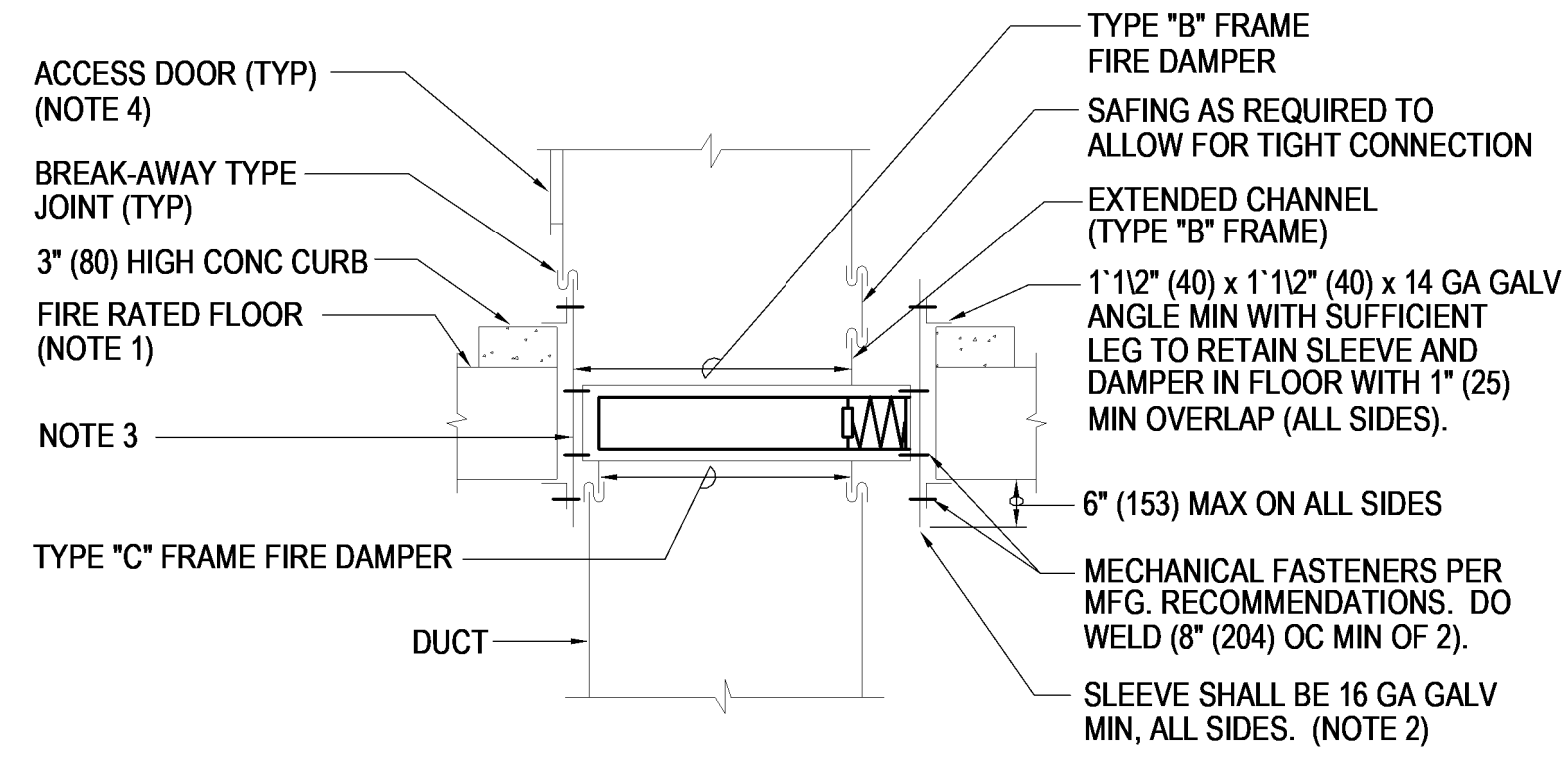
SUPPLY OUTLET LOCATED AT END OF RUN



RADIUS TYPE ELBOW

SQUARE TYPE ELBOW

DETAIL 1
M-501
TYPICAL DUCT DETAILS
NOT TO SCALE

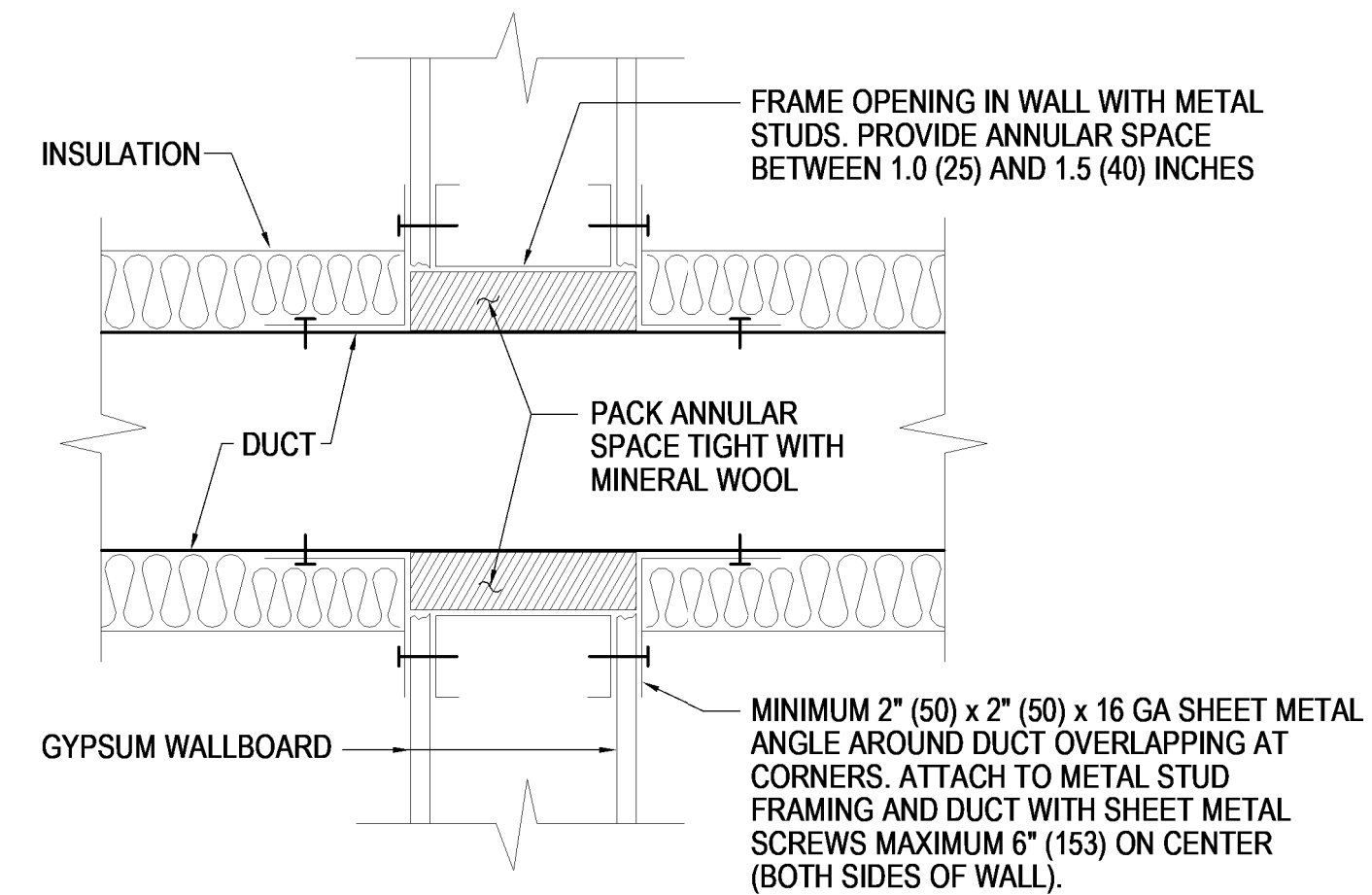


SUPPLY AIR & OUTSIDE AIR SHALL BE TYPE "C" FRAME (ILLUSTRATED ON BOTTOM CONNECTION TO DAMPER)
RETURN AIR & EXHAUST AIR SHALL BE TYPE "B" FRAME (ILLUSTRATED ON TOP CONNECTION TO DAMPER)

NOTES:

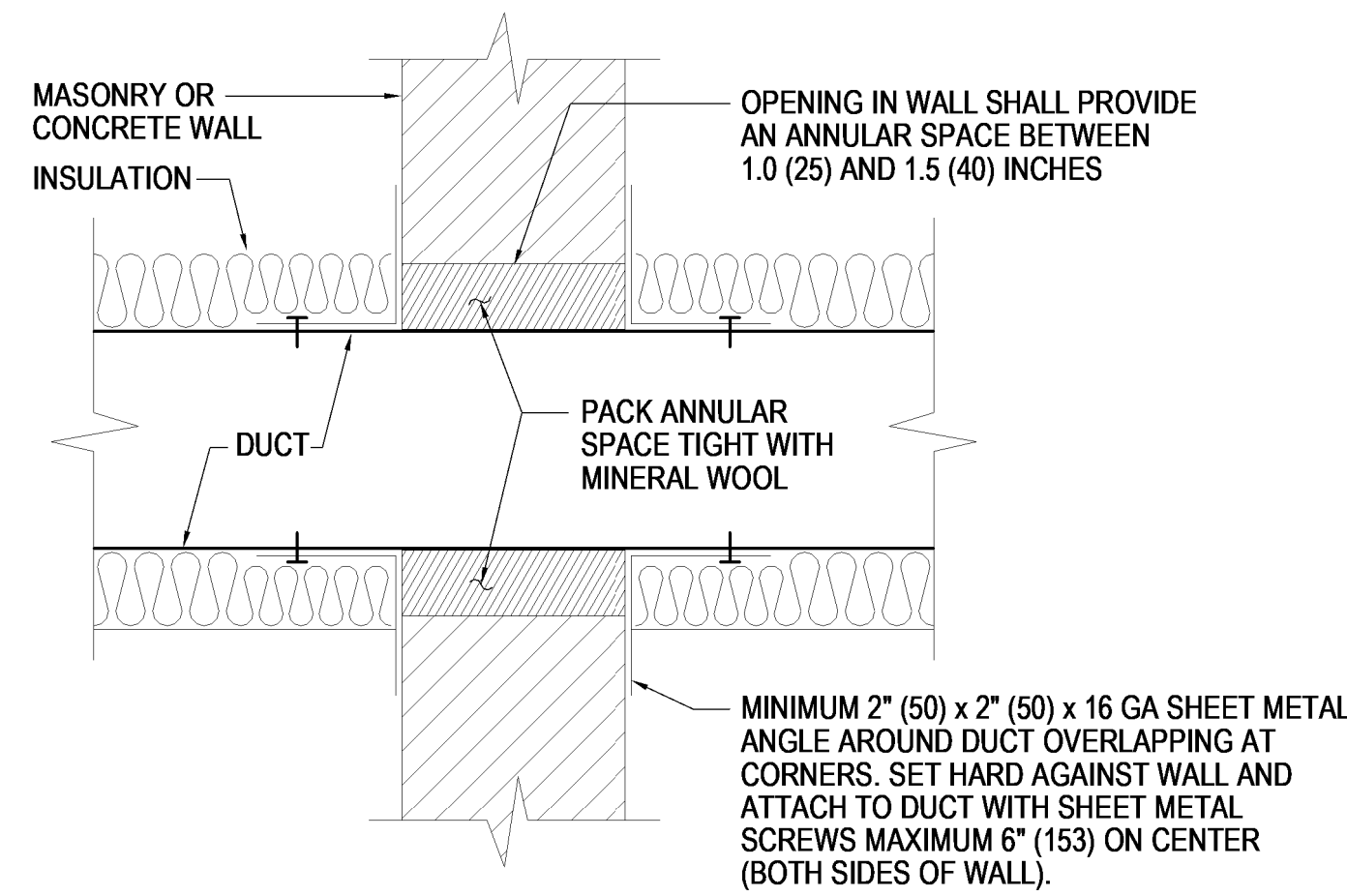
1. FIRE DAMPERS ARE AN INTEGRAL PART OF THE FIRE RATED FLOOR.
2. DAMPERS LARGER THAN 36" (915) W OR 24" (610) H SHALL HAVE 14 GA GALV SLEEVES.
3. OPENING IN FLOOR SHALL BE WITHIN MANUFACTURER'S RECOMMENDATIONS FOR MIN AND MAX CLEARANCE.
4. PROVIDE ACCESS DOOR FOR EACH PANEL OF MULTI-PANEL FIRE DAMPER INSTALLATION.

DETAIL 2
M-501
TYPICAL FIRE DAMPER INSTALLATION IN FLOOR
NOT TO SCALE



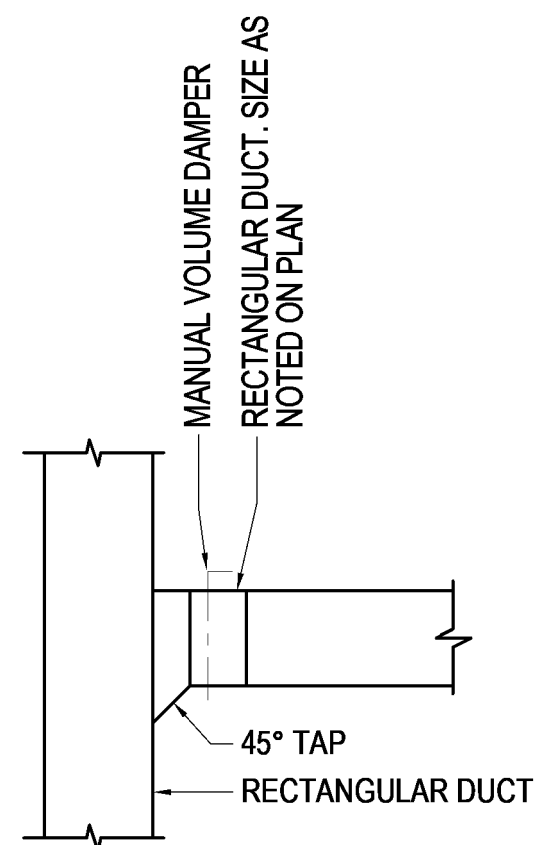
NOTE: THIS DETAIL IS A MINIMUM REQUIREMENT. CONTRACTOR SHALL VERIFY THAT LOCAL AUTHORITIES HAVING JURISDICTION ACCEPT THIS CONSTRUCTION, OR MAKE THE REQUIRED REVISIONS WHERE REQUIREMENTS ARE MORE STRINGENT.

DETAIL 3
M-501
DUCT PENETRATION THROUGH STUD WALL WITH FIRE RATING 1.0 HOUR OR LESS WITHOUT FIRE DAMPER
NOT TO SCALE



NOTE: THIS DETAIL IS A MINIMUM REQUIREMENT. CONTRACTOR SHALL VERIFY THAT LOCAL AUTHORITIES HAVING JURISDICTION ACCEPT THIS CONSTRUCTION, OR MAKE THE REQUIRED REVISIONS WHERE REQUIREMENTS ARE MORE STRINGENT.

DETAIL 4
M-501
DUCT PENETRATION THROUGH MASONRY OR CONCRETE WALL WITH FIRE RATING 1.0 HOUR OR LESS AND WITHOUT FIRE DAMPER
NOT TO SCALE



DETAIL 5
M-501
BRANCH DUCT CONNECTION TO MAIN
NOT TO SCALE

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12/01/07

DISTRICT OF COLUMBIA
No. 9058
REGISTERED PROFESSIONAL ENGINEER (MECH)

KEY PLAN

GRAPHIC SCALE(S)

DATE	07/18/24	Revision	Final Construction Documents
Revision #	DATE	Revision Description	

Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W., Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	HVAC DETAILS
WORKING STAFF	Designer Author Checker

SHEET NO. 41 of 103
M-501
DISCIPLINE TYPE SEQUENCE DRAWING TYPE

7/18/2024 6:51:35 AM
P-001 BY Approver 07/18/24 Final Construction Documents

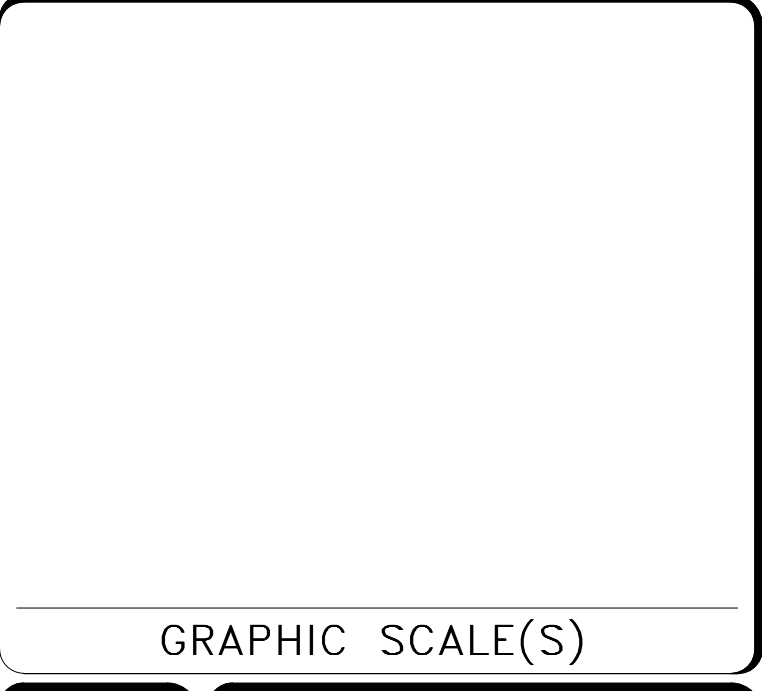
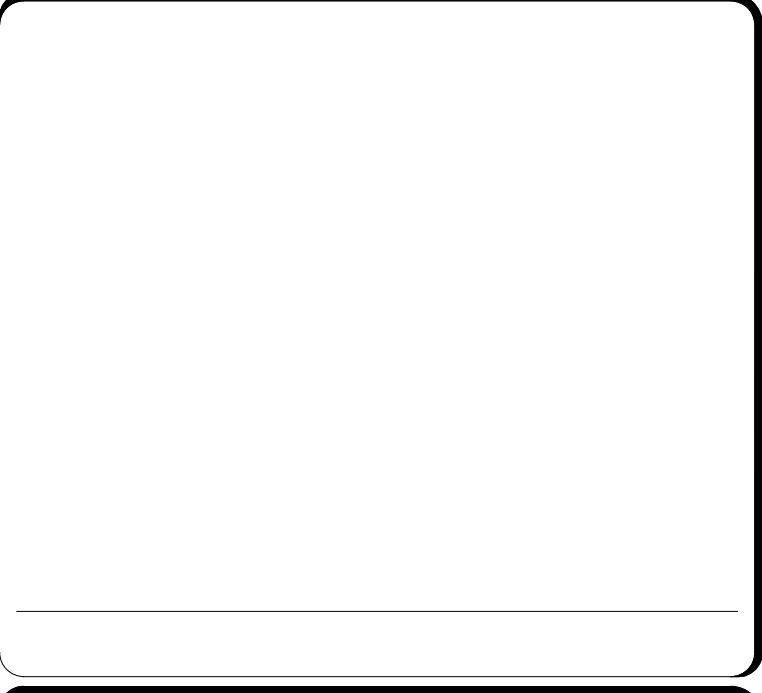
GENERAL			PIPE FITTINGS AND VALVES			PLUMBING		
SYMBOL	ABBR.	TYPE OF PIPE	SYMBOL	ABBR.	ITEM	SYMBOL	ABBR.	ITEM
	--	DETAIL OR DIAGRAM NO. 3 SHOWN ON DRAWING NO. 9		--	PIPE CAP OR PLUG		SAN	SOIL, WASTE, OR SANITARY PIPE
	--	DETAIL OR DIAGRAM NO. 3 SHOWN ON DRAWING NO. 9 REFERENCED ON DRAWING NO. 8		--	PIPE UP		VP	VENT PIPE
	--	POINT OF CONNECTION, NEW TO EXISTING		--	PIPE DOWN		CW	DOMESTIC COLD WATER PIPE
	--	DEMOLITION WORK TERMINATION POINT		--	UNION		D	DRAIN PIPE
	--	SYMBOL FOR SPECIFIC NOTE. NOTE APPLIES TO DRAWING ON WHICH IT OCCURS.		--	FLANGED PIPE CONNECTION		RO	REVERSE OSMOSIS PIPE
		INDICATES DIAMETER		--	CONCENTRIC REDUCER		HW	DOMESTIC HOT WATER PIPE
AAV		AIR ADMITTANCE VALVE		--	ECCENTRIC REDUCER		HWR	DOMESTIC HOT WATER RETURN PIPE
ABV		ABOVE		--	FLOW DIRECTION ARROW		NG	NATURAL GAS PIPE
ADA		AMERICAN DISABILITIES ACT		--	STRAINER		IW	INDIRECT WASTE PIPE
AFF		ABOVE FINISHED FLOOR		SOV	SHUT-OFF VALVE		FOG	FATS / OILS / GREASE WASTE PIPE
ANSI		AMERICAN NATIONAL STANDARDS INSTITUTE			VALVE IN VERTICAL PIPE		TP	TRAP PRIMING PIPE
ARCH		ARCHITECTURAL		BV	BALANCING VALVE		TW	DOMESTIC TEMPERED WATER PIPE
ASSE		AMERICAN SOCIETY OF SANITARY ENGINEERS			2-WAY AUTOMATIC TEMPERATURE CONTROL (ATC) VALVE		CO	CLEANOUT
ASSOC		ASSOCIATED			THERMOMETER (NUMERALS INDICATE GRADUATION RANGE)		FD	FLOOR DRAIN
BOP		BOTTOM OF PIPE			PRESSURE GAUGE (NUMERALS INDICATE GRADUATION RANGE)		FS	FLOOR SINK
BTM		BOTTOM		CV	CHECK VALVE; (ARROWHEAD INDICATES DIRECTION OF FLOW)			
°C		CELSIUS		HB	HOSE BIBB			
CLG		CEILING		WHA	WATER HAMMER ARRESTER			
CMU		CONCRETE MASONRY UNIT		BFP	BACKFLOW PREVENTER			
CONC		CONCRETE						
CONN		CONNECT, CONNECTION						
CONTN		CONTINUATION						
COTR		CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE						
DEG		DEGREES						
DFU		DRAINAGE FIXTURE UNIT						
DIA		DIAMETER						
DHWET		DOMESTIC WATER EXPANSION TANK						
DN		DOWN						
DWG		DRAWING						
DWH		DOMESTIC WATER HEATER						
ELEC		ELECTRICAL						
ELEV		ELEVATION OR ELEVATOR						
ETMV		EMERGENCY THERMOSTATIC MIXING VALVE						
ETR		EXISTING TO REMAIN						
EX		EXISTING						
°F		FAHRENHEIT						
FD		FLOOR DRAIN						
FL		FLOOR						
FOG		FATS / OILS / GREASE						
FS		FLOOR SINK						
FT		FEET						
GAL		GALLON						
GPH		GALLONS PER HOUR						
GPM		GALLONS PER MINUTE						
GPR		GROUND PENETRATION RADAR						
H		HEIGHT						
KG		KILOGRAM						
KG/HR		KILOGRAM PER HOUR						
KPA		KILOPASCALS						
KW		KILOWATT						
IN		INCH, INCHES						
L		LENGTH						
LB(S)		POUND(S)						
LBS/HR		POUNDS PER HOUR						
LPH		LITERS PER HOUR						
LPM		LITERS PER MINUTE						
L/S		LITERS PER SECOND						
M		METER						
MAX		MAXIMUM						
MIN		MINIMUM						
MM		MILLIMETER						
MNPT		MALE NATIONAL PIPE THREAD						
MTD		MOUNTED						
NSF		NATIONAL SANITATION FOUNDATION						
PSIG		POUNDS PER SQUARE INCH GAUGE						
PSI		POUNDS PER SQUARE INCH						
RX		REMOVE EXISTING						
SAN (P)		SANITARY (PUMPED)						
SI		SMITHSONIAN INSTITUTION						
SQ		SQUARE						
S/S		STAINLESS STEEL						
THRU		THROUGH						
TMV		THERMOSTATIC MIXING VALVE						
TYP		TYPICAL						
VERT		VERTICAL						
W		WIDTH						
W/		WITH						

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FOR CONSTRUCTION

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12/01



DATE	07/18/24	REVISION	Final Construction Documents
REVISION #		REVISION DESCRIPTION	

Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	PLUMBING LEGEND
WORKING STAFF	TGS DKR JSC
DESIGNED BY	TGS
DRAWN BY	DKR
CHECKED BY	JSC

SHEET NO.	P - 001
42 of 103	

SPECIFIC NOTES (CONTINUED):

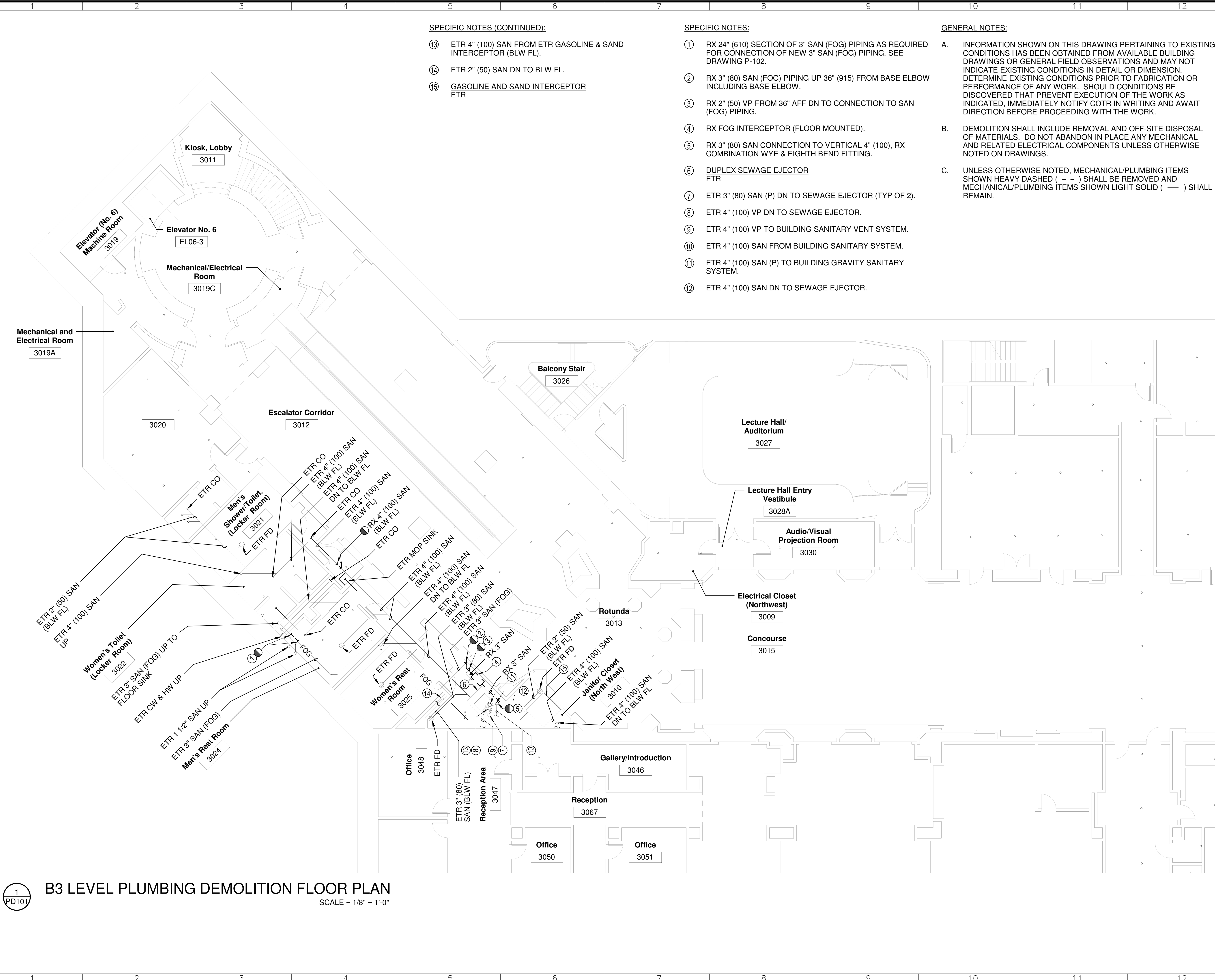
- ⑬ ETR 4" (100) SAN FROM ETR GASOLINE & SAND INTERCEPTOR (BLW FL).
- ⑭ ETR 2" (50) SAN DN TO BLW FL.
- ⑮ GASOLINE AND SAND INTERCEPTOR ETR

SPECIFIC NOTES:

- ① RX 24" (610) SECTION OF 3" SAN (FOG) PIPING AS REQUIRED FOR CONNECTION OF NEW 3" SAN (FOG) PIPING. SEE DRAWING P-102.
- ② RX 3" (80) SAN (FOG) PIPING UP 36" (915) FROM BASE ELBOW INCLUDING BASE ELBOW.
- ③ RX 2" (50) VP FROM 36" AFF DN TO CONNECTION TO SAN (FOG) PIPING.
- ④ RX FOG INTERCEPTOR (FLOOR MOUNTED).
- ⑤ RX 3" (80) SAN CONNECTION TO VERTICAL 4" (100), RX COMBINATION WYE & EIGHTH BEND FITTING.
- ⑥ DUPLEX SEWAGE EJECTOR ETR
- ⑦ ETR 3" (80) SAN (P) DN TO SEWAGE EJECTOR (TYP OF 2).
- ⑧ ETR 4" (100) VP DN TO SEWAGE EJECTOR.
- ⑨ ETR 4" (100) VP TO BUILDING SANITARY VENT SYSTEM.
- ⑩ ETR 4" (100) SAN FROM BUILDING SANITARY SYSTEM.
- ⑪ ETR 4" (100) SAN (P) TO BUILDING GRAVITY SANITARY SYSTEM.
- ⑫ ETR 4" (100) SAN DN TO SEWAGE EJECTOR.

GENERAL NOTES:

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- B. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY MECHANICAL AND RELATED ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- C. UNLESS OTHERWISE NOTED, MECHANICAL/PLUMBING ITEMS SHOWN HEAVY DASHED (- -) SHALL BE REMOVED AND MECHANICAL/PLUMBING ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.



B3 LEVEL PLUMBING DEMOLITION FLOOR PLAN
 SCALE = 1/8" = 1'-0"

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LEVEL B3
 KEY PLAN

0 4' 8' 16'
 1/8" = 1'-0"
 GRAPHIC SCALE(S)

DATE	07/18/24	REVISION	Final Construction Documents
DESIGNER		DESCRIPTION	
DRAWN		CHECKED	

Smithsonian Institution
 Smithsonian Facilities
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	PLUMBING FLOOR PLAN - DEMOLITION
WORKING STAFF	TGS DKR JSC
SHEET NO.	PD101
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7/18/2024 6:52:02 AM PD101 BY Approver 07/18/24 Final Construction Documents

SPECIFIC NOTES:

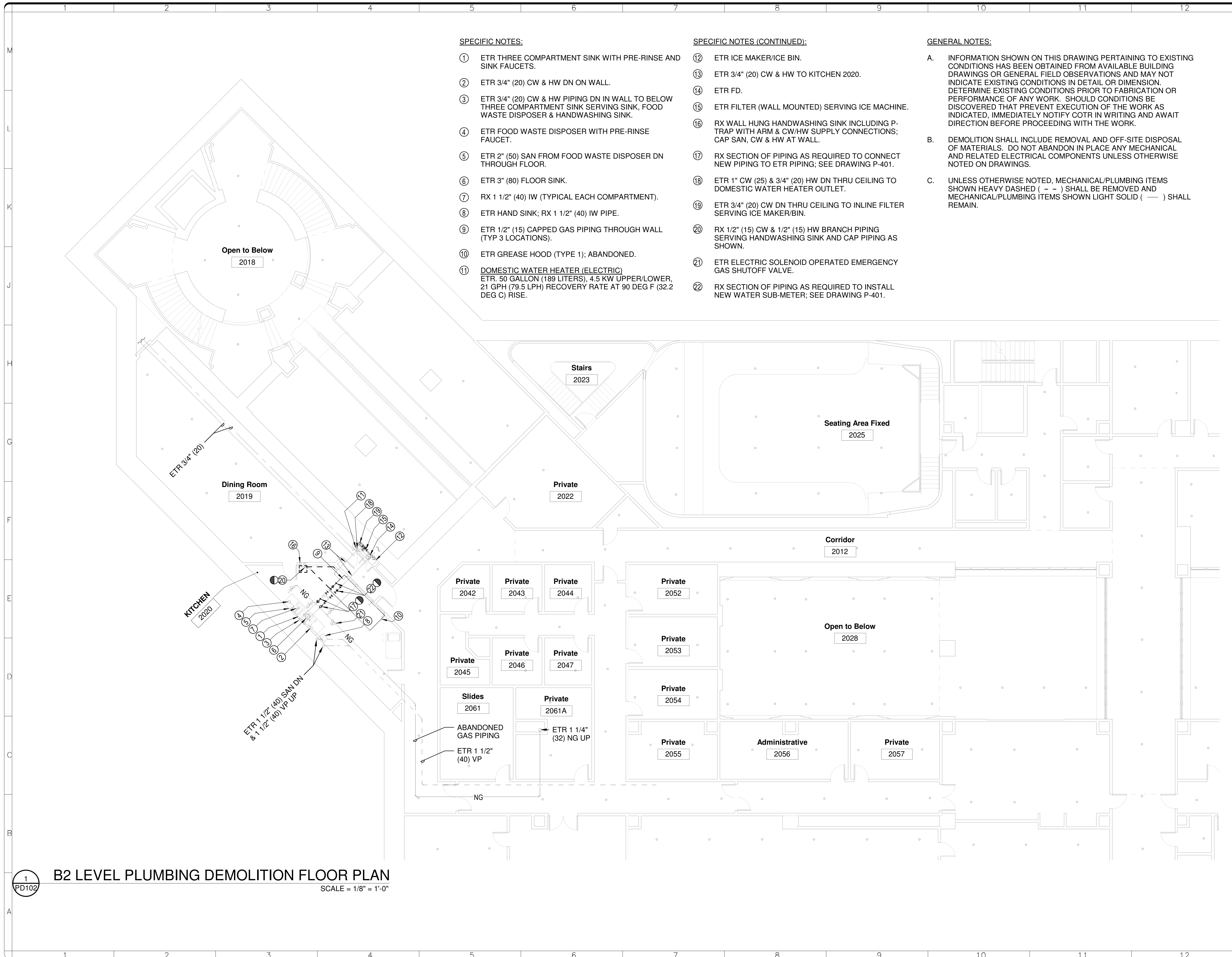
- ① ETR THREE COMPARTMENT SINK WITH PRE-RINSE AND SINK FAUCETS.
- ② ETR 3/4" (20) CW & HW DN ON WALL.
- ③ ETR 3/4" (20) CW & HW PIPING DN IN WALL TO BELOW THREE COMPARTMENT SINK SERVING SINK, FOOD WASTE DISPOSER & HANDWASHING SINK.
- ④ ETR FOOD WASTE DISPOSER WITH PRE-RINSE FAUCET.
- ⑤ ETR 2" (50) SAN FROM FOOD WASTE DISPOSER DN THROUGH FLOOR.
- ⑥ ETR 3" (80) FLOOR SINK.
- ⑦ RX 1 1/2" (40) IW (TYPICAL EACH COMPARTMENT).
- ⑧ ETR HAND SINK; RX 1 1/2" (40) IW PIPE.
- ⑨ ETR 1/2" (15) CAPPED GAS PIPING THROUGH WALL (TYP 3 LOCATIONS).
- ⑩ ETR GREASE HOOD (TYPE 1); ABANDONED.
- ⑪ DOMESTIC WATER HEATER (ELECTRIC) ETR. 50 GALLON (189 LITERS), 4.5 KW UPPER/LOWER, 21 GPH (79.5 LPH) RECOVERY RATE AT 90 DEG F (32.2 DEG C) RISE.

SPECIFIC NOTES (CONTINUED):

- ⑫ ETR ICE MAKER/ICE BIN.
- ⑬ ETR 3/4" (20) CW & HW TO KITCHEN 2020.
- ⑭ ETR FD.
- ⑮ ETR FILTER (WALL MOUNTED) SERVING ICE MACHINE.
- ⑯ RX WALL HUNG HANDWASHING SINK INCLUDING P-TRAP WITH ARM & CW/HW SUPPLY CONNECTIONS; CAP SAN, CW & HW AT WALL.
- ⑰ RX SECTION OF PIPING AS REQUIRED TO CONNECT NEW PIPING TO ETR PIPING; SEE DRAWING P-401.
- ⑱ ETR 1" CW (25) & 3/4" (20) HW DN THRU CEILING TO DOMESTIC WATER HEATER OUTLET.
- ⑲ ETR 3/4" (20) CW DN THRU CEILING TO INLINE FILTER SERVING ICE MAKER/BIN.
- ⑳ RX 1/2" (15) CW & 1/2" (15) HW BRANCH PIPING SERVING HANDWASHING SINK AND CAP PIPING AS SHOWN.
- ㉑ ETR ELECTRIC SOLENOID OPERATED EMERGENCY GAS SHUTOFF VALVE.
- ㉒ RX SECTION OF PIPING AS REQUIRED TO INSTALL NEW WATER SUB-METER; SEE DRAWING P-401.

GENERAL NOTES:

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- B. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY MECHANICAL AND RELATED ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- C. UNLESS OTHERWISE NOTED, MECHANICAL/PLUMBING ITEMS SHOWN HEAVY DASHED (- -) SHALL BE REMOVED AND MECHANICAL/PLUMBING ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.

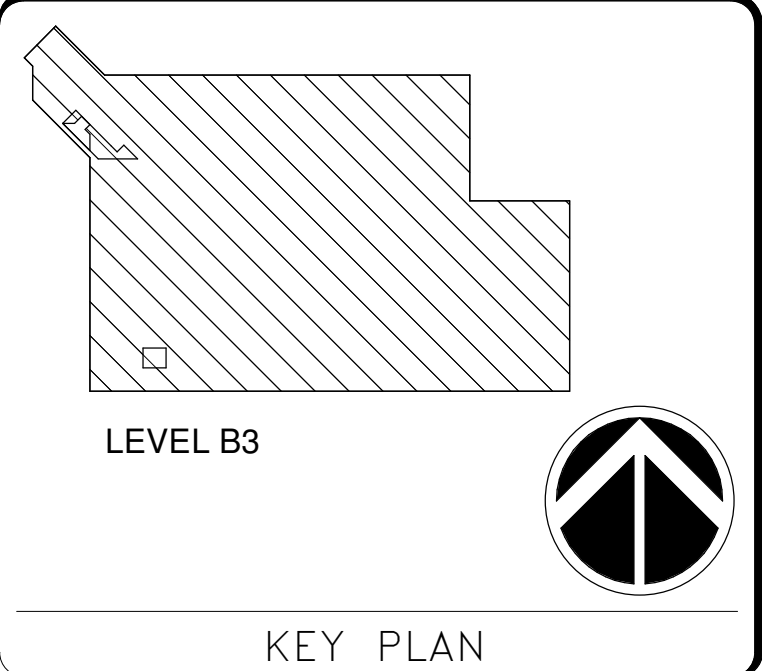


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FOR CONSTRUCTION

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 jamesposey.com
 12/2017

DISTRICT OF COLUMBIA
 REGISTERED PROFESSIONAL ENGINEER
 No. 90528



0 4' 8' 16'
 1/8" = 1'-0"
 GRAPHIC SCALE(S)

DATE	07/18/24	REVISION	Final Construction Documents
REVISION #		DATE	
REVISION DESCRIPTION			

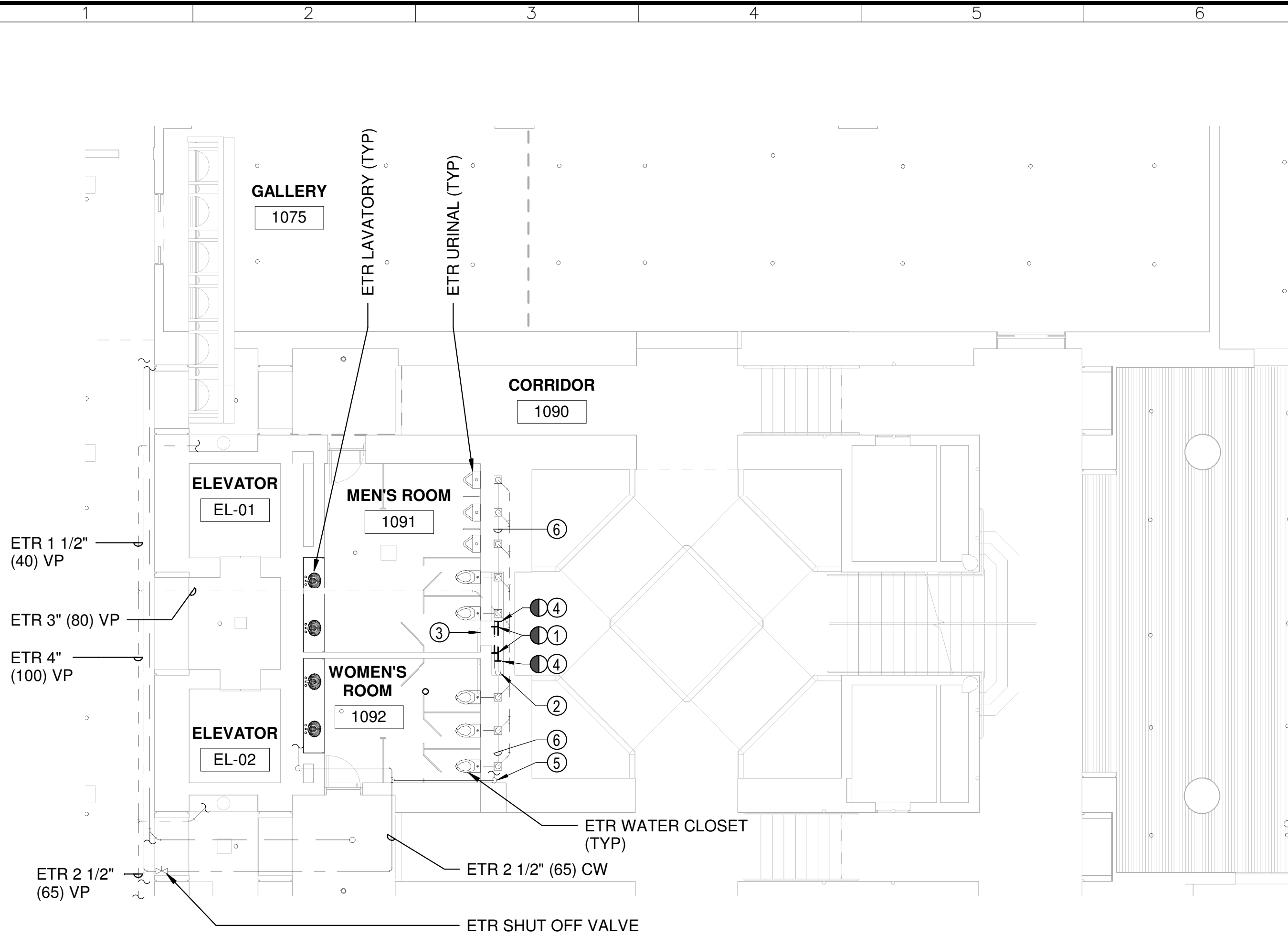
Smithsonian Institution
 Smithsonian Facilities
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	PLUMBING FLOOR PLAN - DEMOLITION
WORKING STAFF	TGS DKR JSC
DESIGNED BY	TGS
DRAWN BY	DKR
CHECKED BY	JSC

SHEET NO. PD102
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7/18/2024 6:52:05 AM PD102 BY Approver 07/18/24 Final Construction Documents

B2 LEVEL PLUMBING DEMOLITION FLOOR PLAN
 SCALE = 1/8" = 1'-0"



B1 LEVEL PLUMBING DEMOLITION FLOOR PLAN
 SCALE = 1/8" = 1'-0"

GENERAL NOTES:

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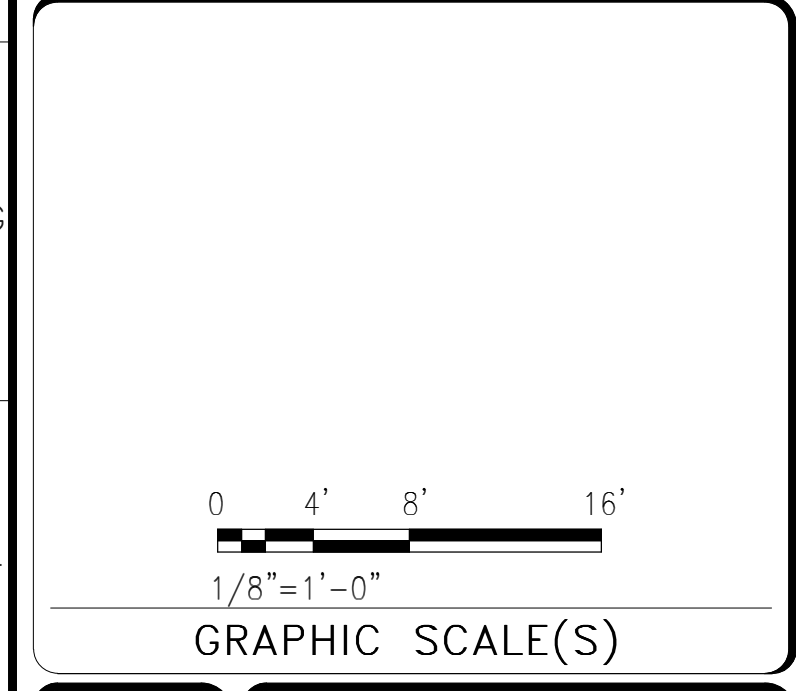
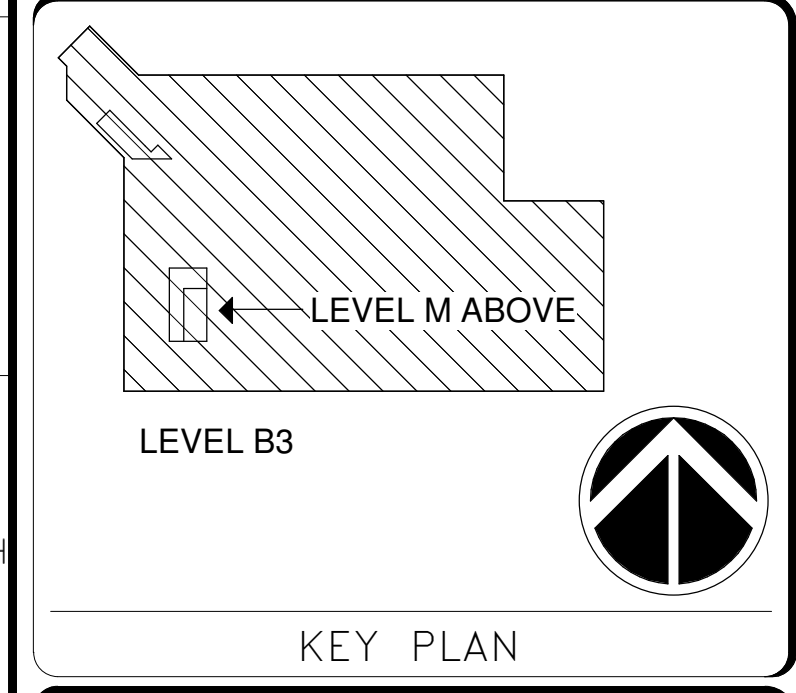
SPECIFIC NOTES:

- ① RX SECTION OF 4" (100) SAN BETWEEN WATER CLOSET CARRIER AND CONNECTION TO WYE FITTING THAT TURNS HORIZONTAL PIPING TO VERTICAL.
- ② ETR 4" (100) SAN DN THROUGH FLOOR.
- ③ ETR 24"x24" (610x610) ACCESS DOOR NEAR FLOOR TO BE UTILIZED FOR ACCESS FOR DEMOLITION AND NEW WORK.
- ④ RX 12" (305) SECTION OF 2" (50) CW PIPING AS REQUIRED TO CONNECT NEW 1 1/4" (32) CW PIPING. SEE DRAWING P-103.
- ⑤ ETR 2 1/2" (65) CW DN TO SERVE PLUMBING FIXTURES.
- ⑥ ETR 4" (100) SAN ABOVE FLOOR IN CHASE.

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 Washington DC 20003

FOR CONSTRUCTION

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 12/05

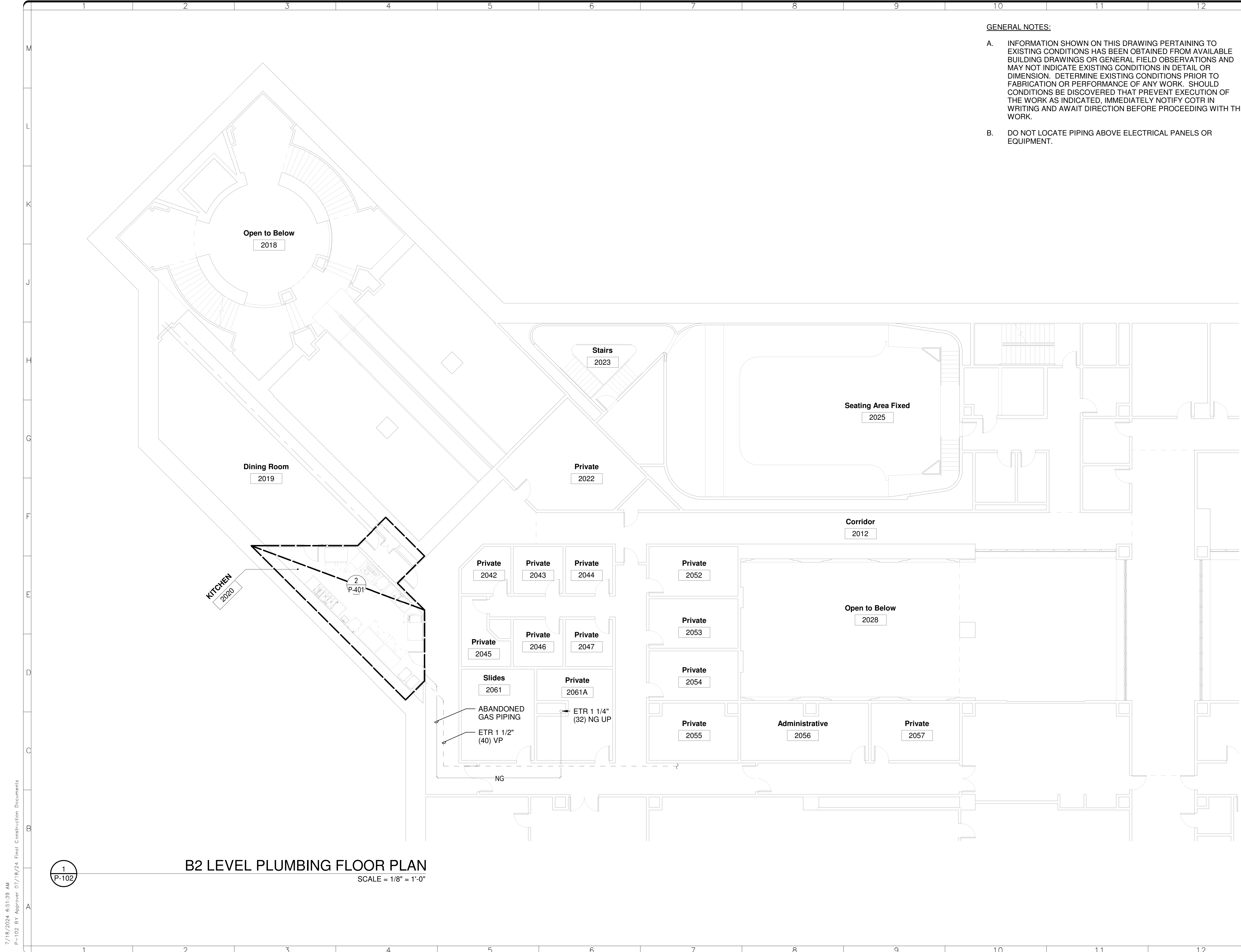


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SF PROJECT NUMBER	2209110
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DRAWING TITLE	PLUMBING FLOOR PLAN – DEMOLITION
WORKING STAFF	TGS DKR JSC
DESIGNED BY	DRAWN BY
CHECKED BY	

SHEET NO.	PD103
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GENERAL NOTES:

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. DO NOT LOCATE PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.

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FOR CONSTRUCTION

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tel 410-265-6100
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LEVEL B3

KEY PLAN

0 4' 8' 16'

1/8" = 1'-0"

GRAPHIC SCALE(S)

DATE	DESCRIPTION
07/18/24	Final Construction Documents
REVISION #	REVISION DESCRIPTION

Smithsonian Institution

Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

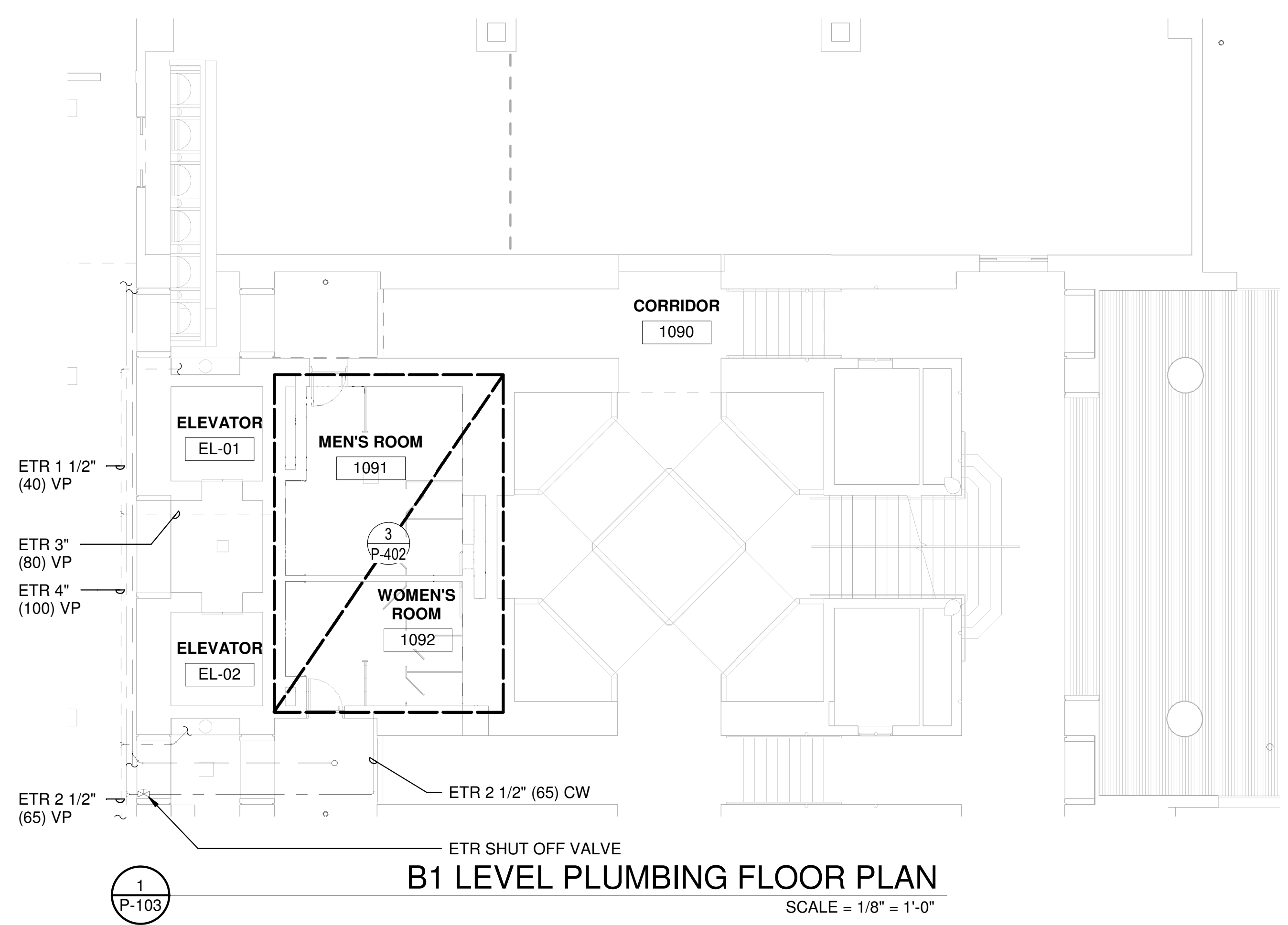
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ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	PLUMBING FLOOR PLAN
WORKING STAFF	TGS DKR JSC
DESIGNED BY	DRAWN BY
CHECKED BY	

SHEET NO. P-102
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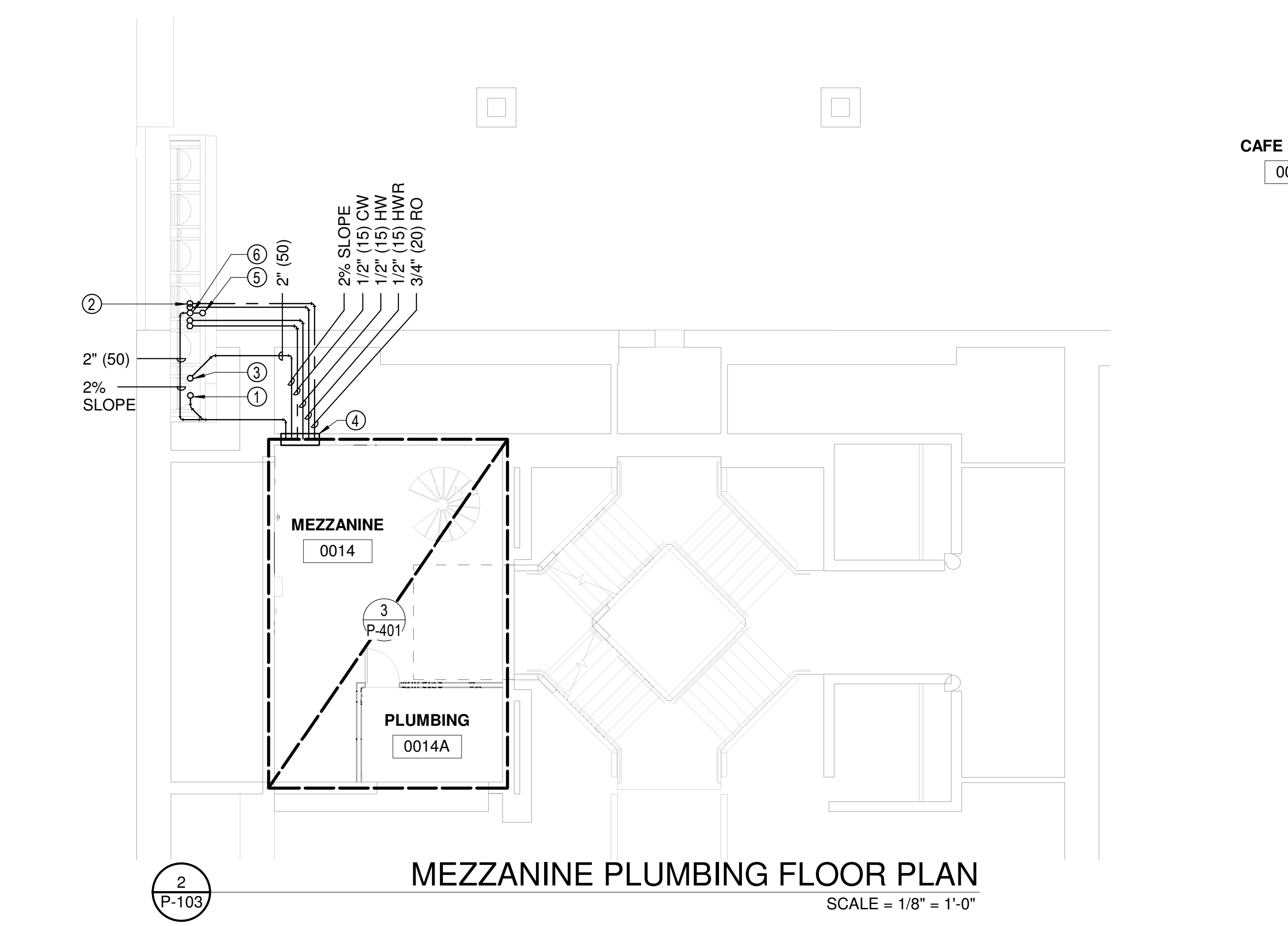
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B2 LEVEL PLUMBING FLOOR PLAN
SCALE = 1/8" = 1'-0"

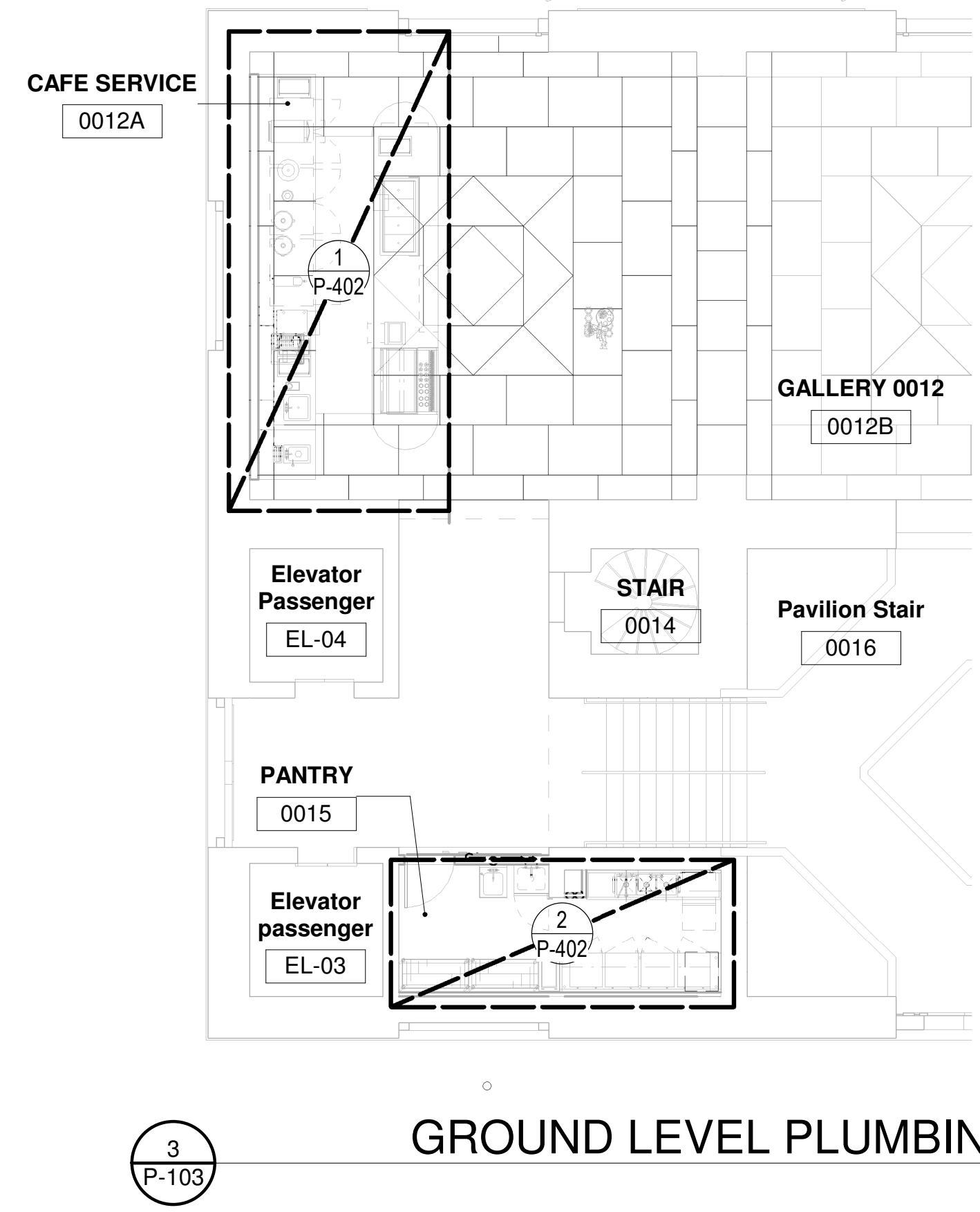
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 P-103 BY Approver 07/18/24 Final Construction Documents



B1 LEVEL PLUMBING FLOOR PLAN
 SCALE = 1/8" = 1'-0"



MEZZANINE PLUMBING FLOOR PLAN
 SCALE = 1/8" = 1'-0"



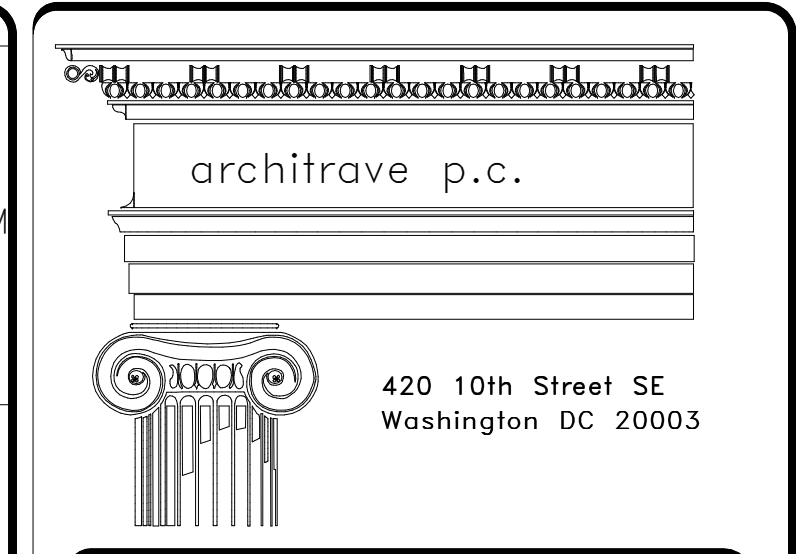
GROUND LEVEL PLUMBING FLOOR PLAN
 SCALE = 1/8" = 1'-0"

GENERAL NOTES:

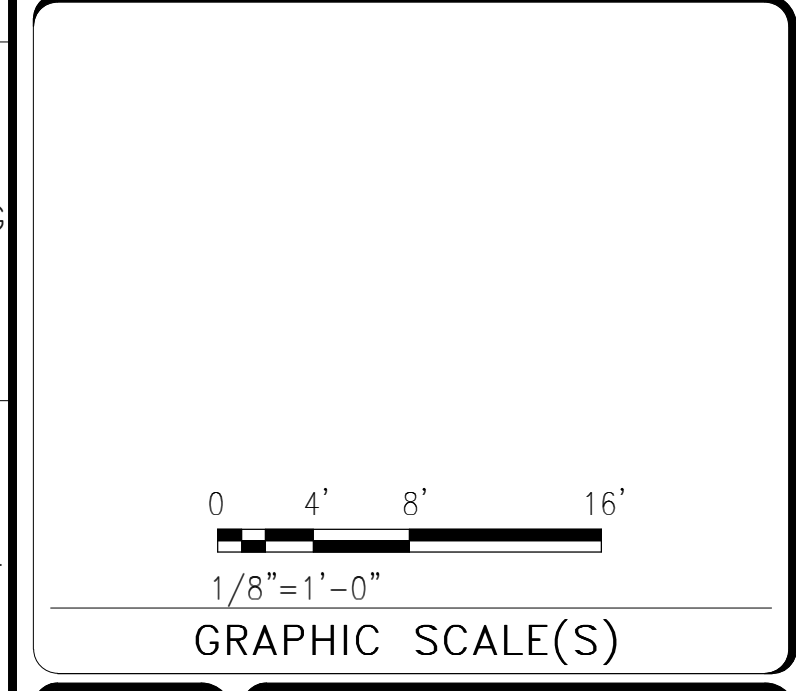
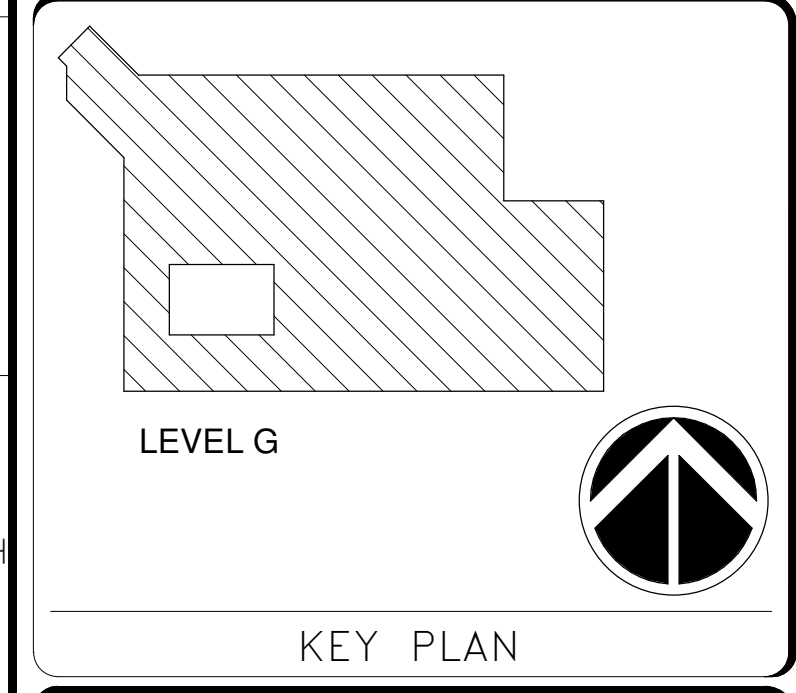
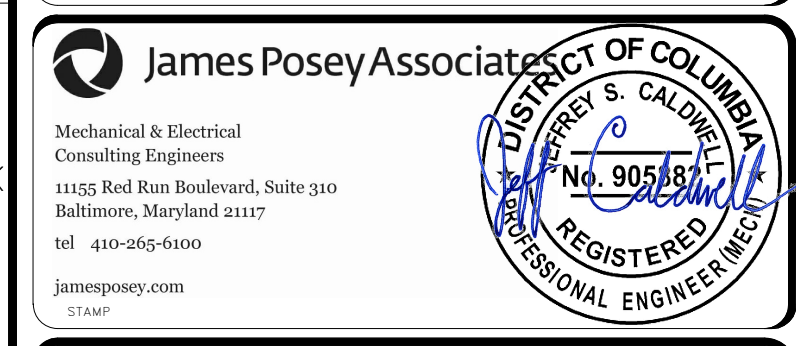
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- B. DO NOT LOCATE PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.
- C. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF FLOOR PENETRATIONS AND FIRESTOPPING REQUIREMENTS.

SPECIFIC NOTES:

- ① 2" (50) SAN UP THRU FL INSIDE 3" (80) PIPE SLEEVE. PENETRATION LOCATION IS PRELIMINARY. EXACT POSITION TO BE COORDINATED AFTER GPR SCAN OF FLOOR IS COMPLETED.
- ② 1/2" (15) CW, 1/2" (15) HW, 1/2" (15) HWR & 3/4" (20) RO UP THROUGH FLOOR INSIDE 5" (125) DIAMETER PIPE SLEEVE. PROVIDE 1/2" (15) ELASTOMERIC INSULATION ON PIPING AS REQUIRED TO MINIMIZE PIPE SLEEVE DIAMETER.
- ③ 2" (50) SAN (FOG) UP THRU FLOOR INSIDE 3" (80) PIPE SLEEVE ASSOCIATED WITH P-TRAP AND OPEN SITE DRAIN SERVING WORK SINK AND ESPRESSO MACHINE AT GROUND FLOOR LEVEL. PENETRATION LOCATION IS PRELIMINARY. EXACT POSITION TO BE COORDINATED AFTER GPR SCAN OF FLOOR IS COMPLETED.
- ④ LOCATION AND ARRANGEMENT OF PIPING SHOWN IS PREFERRED; EXACT LOCATION WILL DEPEND UPON RESULTS OF GROUND PENETRATION RADAR TO DETERMINE IF THERE IS ANY VERTICAL STRUCTURAL REINFORCEMENT WITHIN CMU CORES. PIPING SHALL NOT PENETRATE THROUGH GROUT LINES OR CMU CORES THAT HAVE VERTICAL STRUCTURAL REINFORCING.
- ⑤ 1 1/2" (40) VP UP THRU FLOOR INSIDE 2 1/2" (65) PIPE SLEEVE ASSOCIATED WITH SANITARY OPEN SITE DRAIN SERVING ICE MACHINE AT GROUND FLOOR LEVEL.
- ⑥ 2" (50) SAN UP THRU FLOOR INSIDE 3" (80) PIPE SLEEVE ASSOCIATED WITH SANITARY OPEN SITE DRAIN SERVING ICE MACHINE AT GROUND FLOOR LEVEL.



FOR CONSTRUCTION

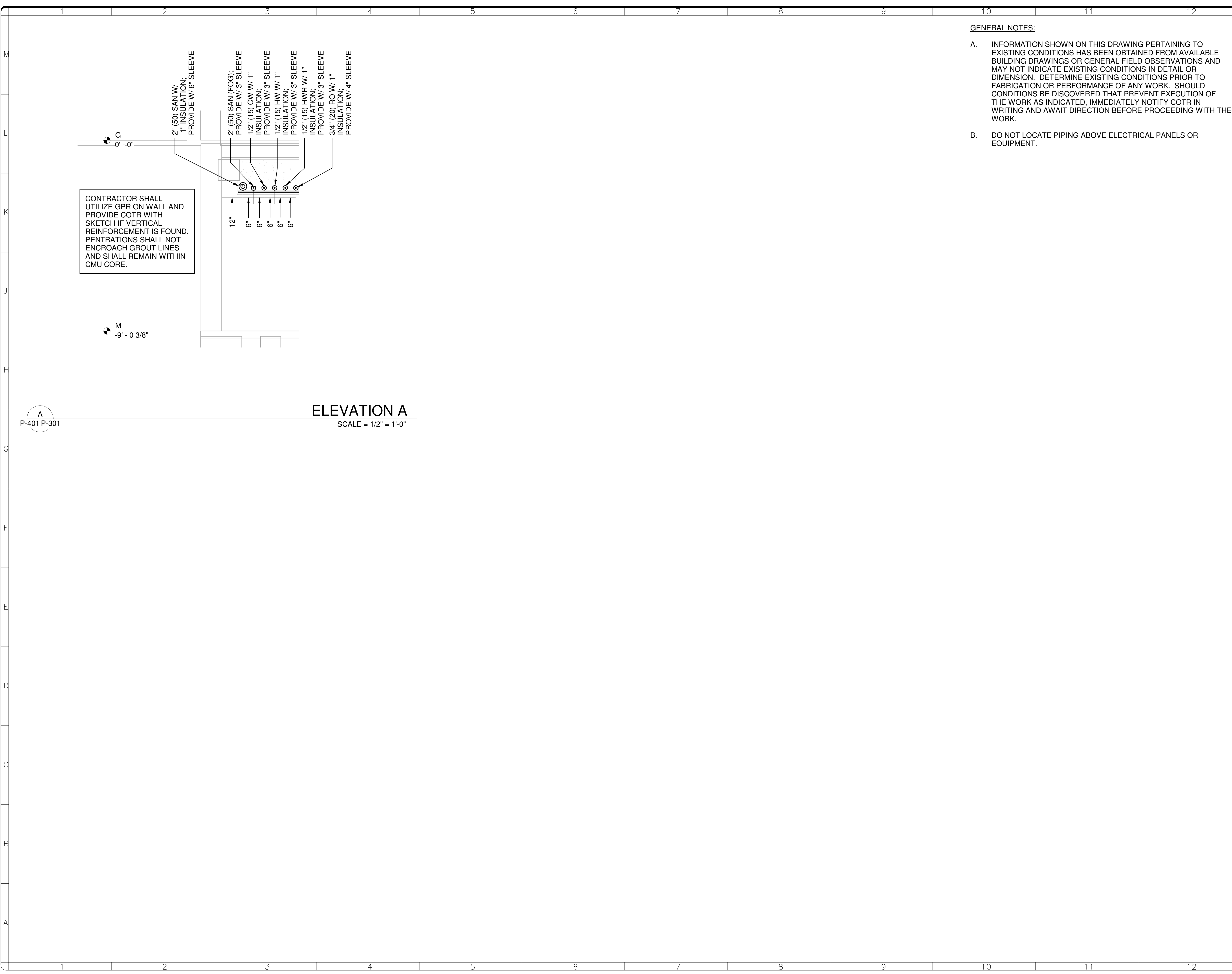


DATE	07/18/24	REVISION	Final Construction Documents
REVISION #		REVISION DESCRIPTION	



BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	PLUMBING FLOOR PLANS
WORKING STAFF	TGS DKR JSC
SHEET NO.	P-103
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- GENERAL NOTES:**
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 - B. DO NOT LOCATE PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.

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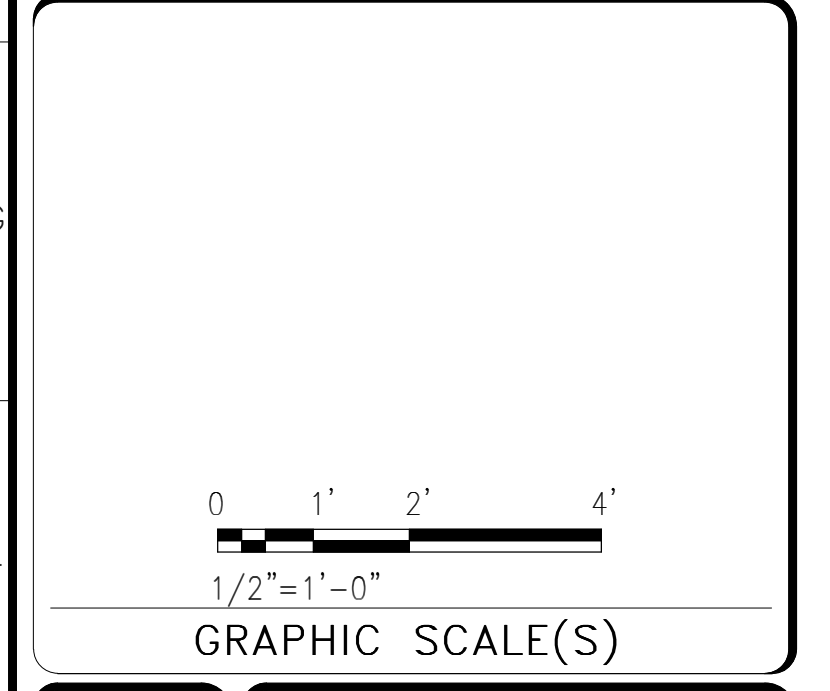
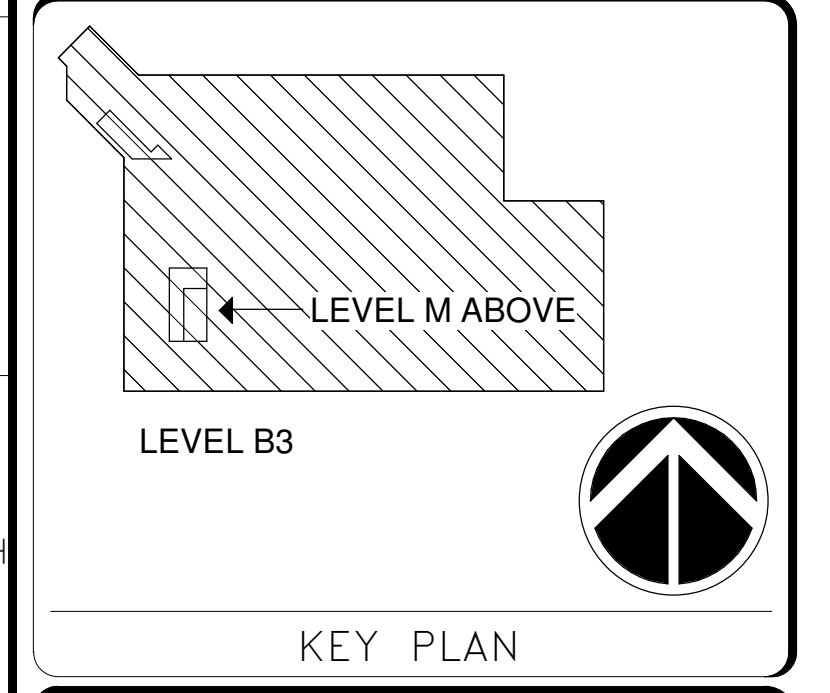
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Washington DC 20003

FOR CONSTRUCTION

James Posey Associates

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1155 Red Run Boulevard, Suite 310
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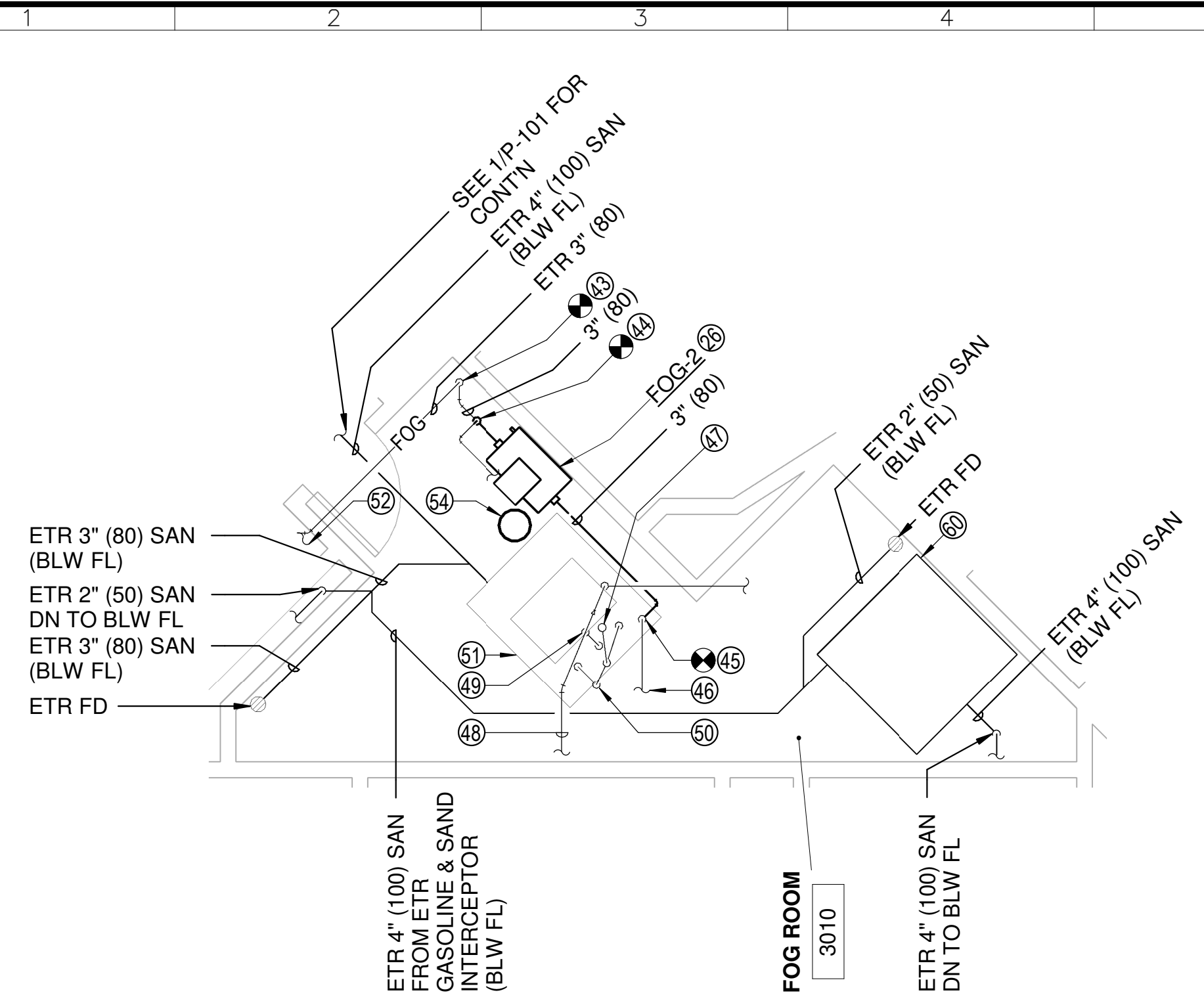


DATE	07/18/24	Revision	Final Construction Documents
Revision #		Revision Description	

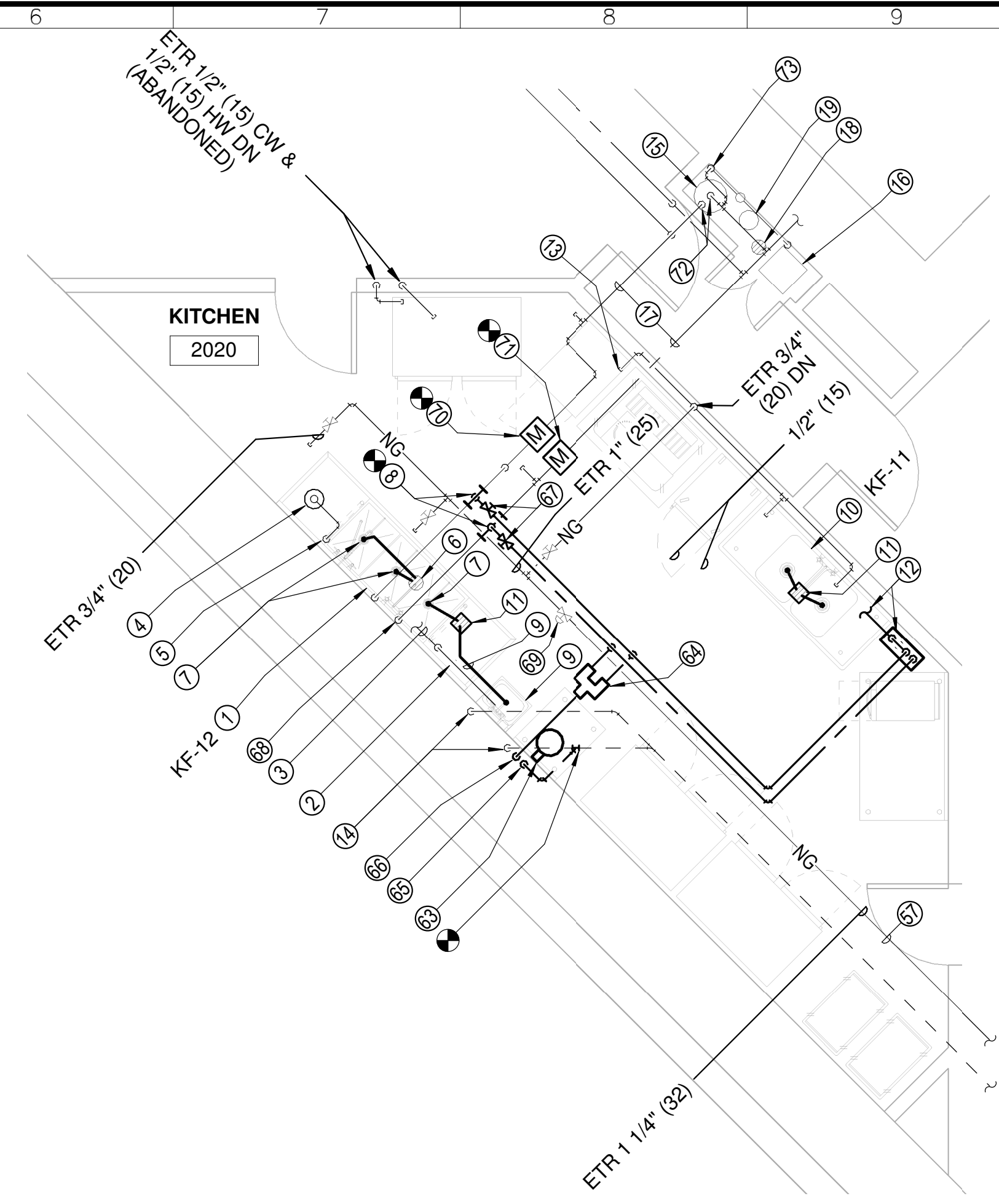
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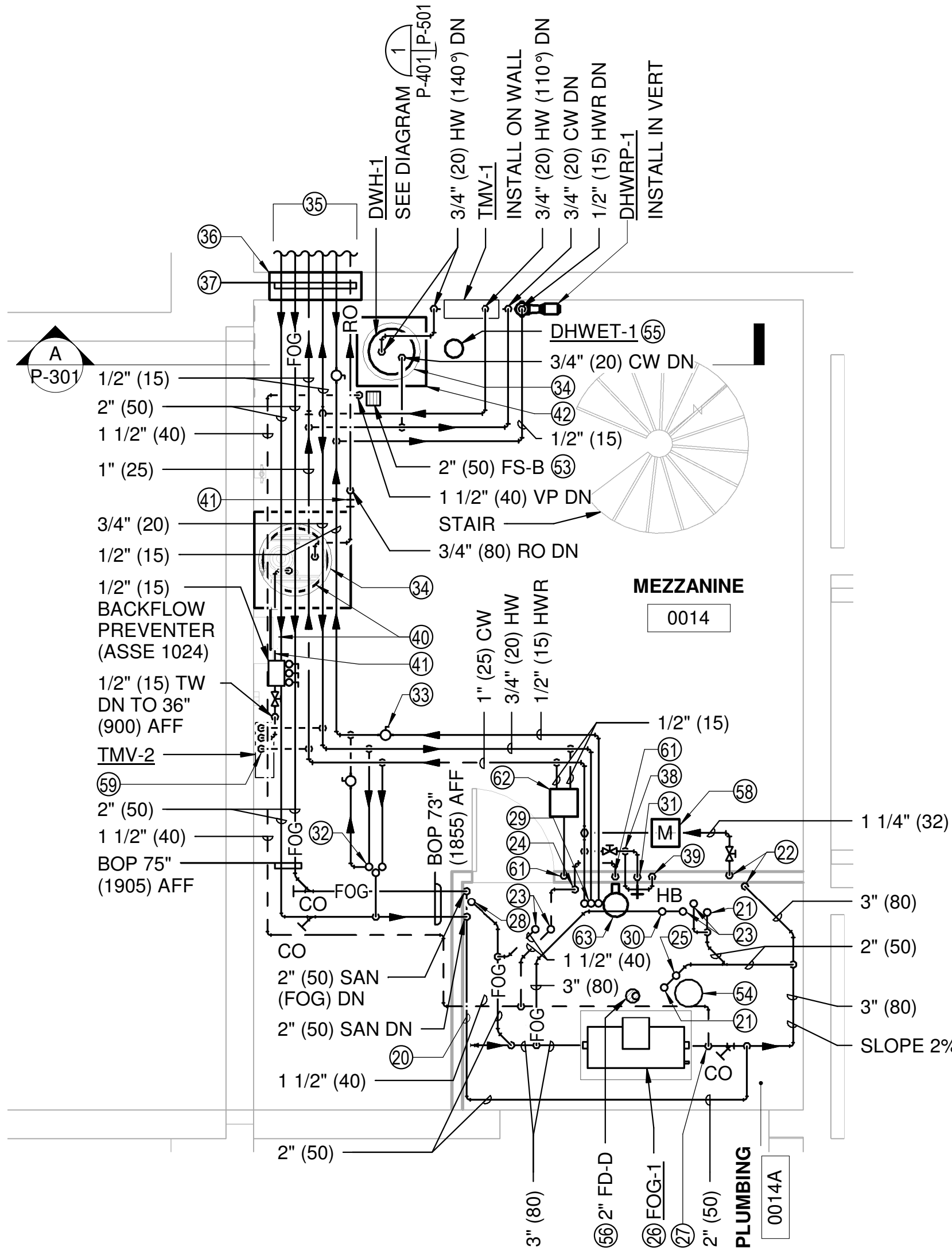
BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	PLUMBING SECTIONS
WORKING STAFF	TGS DKR JSC
DESIGNED BY	TGS
DRAWN BY	DKR
CHECKED BY	JSC
SHEET NO.	P-301
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B3 LEVEL PLUMBING PART PLAN
SCALE = 1/4" = 1'-0"



B2 LEVEL PLUMBING PART PLAN
SCALE = 1/4" = 1'-0"



MEZZANINE PLUMBING PART PLAN
SCALE = 1/4" = 1'-0"

GENERAL NOTES:

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B. DO NOT LOCATE PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.

C. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF FLOOR PENETRATIONS AND FIRESTOPPING REQUIREMENTS.

SPECIFIC NOTES:

- ① ETR THREE COMPARTMENT SINK WITH PRE-RINSE AND SINK FAUCETS.
- ② ETR 3/4" (20) CW & HW DN ON WALL.
- ③ ETR 3/4" (20) CW & HW PIPING BELOW THREE COMPARTMENT SINK SERVING SINK AND FOOD WASTE DISPOSER; CLEAN PIPING.
- ④ ETR FOOD WASTE DISPOSER WITH PRE-RINSE FAUCET. RECOMMISSION EQUIPMENT & MAKE OPERATIONAL.
- ⑤ ETR 2" (50) SAN FROM FOOD WASTE DISPOSER DN THROUGH FLOOR. CLEAN PIPING.
- ⑥ ETR 3" (80) FLOOR SINK; CLEAN FLOOR SINK.
- ⑦ 1 1/2" (40) IW (TYPICAL EACH COMPARTMENT); TERMINATE INDIVIDUALLY OVER FLOOR SINKS.
- ⑧ CONNECT 1/2" (15) CW & HW TO EX 3/4" (20) CW & HW ABV CLG.
- ⑨ ETR HAND SINK; CLEAN HAND SINK & PROVIDE 1 1/2" (40) IW OVER TO NEW FLOOR SINK & TERMINATE W/ AIR GAP.
- ⑩ TWO COMPARTMENT SINK; PROVIDE 1 1/2" (40) IW (TYPICAL EACH COMPARTMENT) & TERMINATE INDIVIDUALLY OVER FLOOR SINK. SEE KITCHEN DWGS.
- ⑪ 3" (80) FS-A. SEE DETAIL $\frac{4}{P-401|P-504}$
- ⑫ 1/2" (15) CW & HW DN ON WALL TO 18" (450) AFF. EXTEND PIPING 8" FROM SURFACE OF WALL BELOW TWO COMPARTMENT SINK, AND CONNECT TO INLETS ON SINK FAUCET CONNECTION. PROVIDE SHUT OFF VALVES. PROVIDE 18 GAUGE S/S SHROUD AROUND VERTICAL PIPING. DO NOT INSULATE PIPING EXTERNAL OF SHROUD.
- ⑬ ETR 1/2" (15) CAPPED GAS PIPING THROUGH WALL (TYP 3 LOCATIONS).
- ⑭ ETR 1 1/2" (40) SAN DN & 1 1/2" (40) VP UP.
- ⑮ DOMESTIC WATER HEATER (ELECTRIC) ETR. 50 GALLON (189 LITERS), 4.5 KW UPPER/LOWER, 21 GPH (79.5 LPH) RECOVERY RATE AT 90 DEG F (32.2 DEG C) RISE.
- ⑯ ETR ICE MAKER/ICE BIN.
- ⑰ ETR 3/4" (20) HW & 3/4" (20) CW TO KITCHEN 2020.
- ⑱ ETR FD.
- ⑲ ETR WATER FILTER (WALL MOUNTED) SERVING ICE MACHINE.
- ⑳ 2" (50) SAN ABOVE 2" (50) SAN (FOG) BLW, INSTALL TIGHT AGAINST WALL (SLOPE 2%).
- ㉑ 2" (50) SAN UP TO FLOOR DRAIN AT GROUND LEVEL.
- ㉒ 3" (80) SAN & 1 1/4" (32) CW DN THROUGH FLOOR INSIDE 4" (100) & 5" (125) DIAMETER PIPE SLEEVES RESPECTIVELY INTO ACCESSIBLE PIPE CHASE AT B1 LEVEL.
- ㉓ 1 1/2" (40) VP UP THRU FLOOR INSIDE 2 1/2" (65) PIPE SLEEVE.
- ㉔ 1 1/2" (40) VP DN THRU FL INSIDE 2 1/2" (65) PIPE SLEEVE.
- ㉕ 1 1/2" (40) VP WITH AIR ADMITTANCE VALVE; INSTALL AS HIGH AS POSSIBLE.
- ㉖ FATS/OILS/GREASE INTERCEPTOR FOG-1 / FOG-2 SEE DETAIL $\frac{2}{P-401|P-501}$
- ㉗ 1 1/2" (40) VP DN.
- ㉘ 2" (50) SAN (FOG) UP TO MOP BASIN CABINET DRAIN OUTLET.
- ㉙ 3/4" (20) CW, 3/4" (20) HW & 1/2" HWR (15) UP THROUGH FLOOR INSIDE 4" (100) DIAMETER PIPE SLEEVE.
- ㉚ 3" (80) SAN (FOG) UP TO FLOOR SINK AT GROUND LEVEL.
- ㉛ 1/2" CW (15) DN IN WALL TO 18" AFF. PROVIDE HOSE BIB.
- ㉜ 1 1/2" (40) SAN, 1/2" (15) CW & 1/2" (15) HW UP THRU FLOOR INSIDE 5" (125) PIPE SLEEVE.
- ㉝ BALANCING VALVE (TYP); BALANCE TO 0.5 GPM (1.9 LPM).

SPECIFIC NOTES (CONTINUED):

- ㉞ SEE DWG P-101 FOR CONT'N.
- ㉟ SEE DETAIL $\frac{1}{P-401|P-504}$
- ㊱ 5 GALLON FOG BUCKET.
- ㊲ SUPPORT FROM BOTTOM OF STRUCTURE.
- ㊳ SEE DETAIL $\frac{2}{P-401|P-504}$
- ㊴ FOLLOW GAS PIPING MAIN BACK TO NEXT BRANCH TAKEOFF BEYOND KITCHEN 2020. DISCONNECT PIPING DOWNSTREAM OF BRANCH PIPE AT FIRST FITTING, AND CAP BOTH ENDS. ISOLATE MAIN AND PURGE GAS FROM PIPING PRIOR TO DISCONNECTING PIPING AND CAPPING.
- ㊵ BOTTOM OF PIPE 81" (2058) AFF. CONTRACTOR SHALL INSTALL PIPING ABOVE EXISTING RACEWAY. SEE SECTION VIEW $\frac{1}{P-401|P-301}$
- ㊶ AUTOMATIC TRAP PRIMING SYSTEM; SEE DETAIL $\frac{2}{P-401|P-505}$
- ㊷ 1/2" (15) TP PIPING DN THRU FLOOR INSIDE 2" (50) PIPE SLEEVE. INSTALL PIPING IN CEILING BELOW AND CONNECT TO TRAP PRIMER CONNECTION ON P-TRAP ASSOCIATED WITH FLOOR DRAIN IN FOG INTERCEPTOR ROOM.
- ㊸ REVERSE OSMOSIS (RO) FILTRATION SYSTEM; SEE KITCHEN DWGS.
- ㊹ POINT OF CONTRACTOR'S CONNECTION TO PACKAGED RO FILTRATION SYSTEM. SEE KITCHEN DRAWINGS.
- ㊺ 4" (100) HIGH CONCRETE HOUSEKEEPING PAD; SEE DETAIL $\frac{1}{P-401|P-503}$
- ㊻ CONNECT 3" (80) SAN (FOG) TO ETR 3" (80) SAN (FOG) IN VERTICAL APPROXIMATELY 42" (1050) AFF.
- ㊼ CONNECT 2" (50) VP TO ETR 2" (50) VP IN VERTICAL APPROXIMATELY 36" (900) AFF.
- ㊽ CONNECT 3" (80) SAN TO ETR 4" (100) SAN. PROVIDE COMBINATION WYE AND EIGHTH BEND FITTING.
- ㊾ ETR 4" (100) SAN FROM BUILDING'S SANITARY SYSTEM.
- ㊿ ETR 4" (100) PUMPED SANITARY UP TO BUILDING'S GRAVITY SANITARY SYSTEM.
- 1 ETR 4" (100) VP TO ETR DUPLEX SEWAGE EJECTOR.
- 2 ETR 4" (100) VP UP TO BUILDING'S SANITARY VENT SYSTEM.
- 3 ETR 4" (100) SAN (P) DN TO ETR SEWAGE EJECTOR.
- 4 SEWAGE EJECTOR (DUPLEX) ETR

SPECIFIC NOTES (CONTINUED):

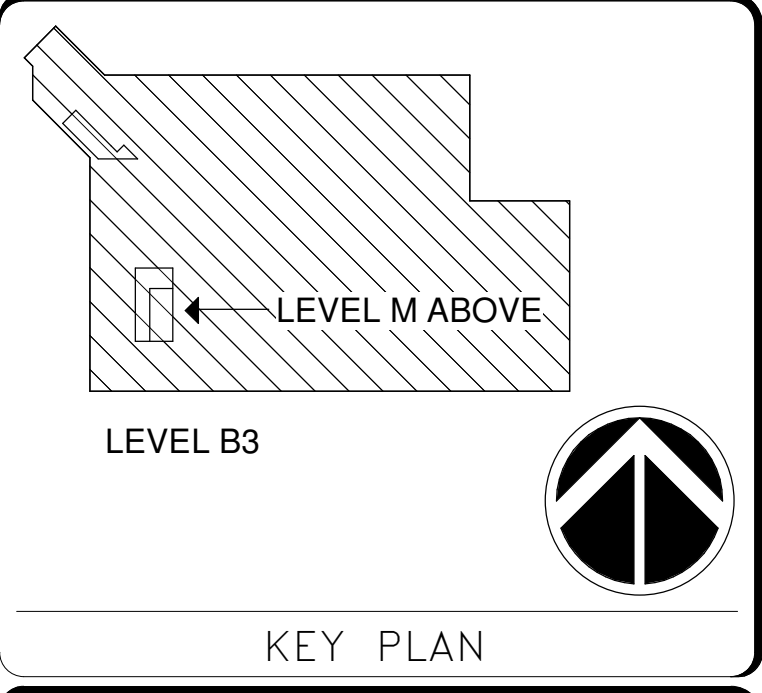
- 5 30" (750) DIA. BY 2 1/2" (65) DEEP EMERGENCY DRAIN PAN. EMERGENCY DRAIN PAN SHALL BE HOLDRITE QUICK PAN SERIES OR APPROVED EQUAL.
- 6 2" (50) SAN, 2" (50) SAN (FOG), 1/2" (15) CW, 1/2" (15) HW, 1/2" (15) HWR & 3/4" (20) RO; SEE DWG P-103 FOR CONT'N.
- 7 LOCATION AND ARRANGEMENT OF PIPING SHOWN IS PREFERRED; EXACT LOCATION WILL DEPEND UPON RESULTS OF GROUND PENETRATION RADAR TO DETERMINE IF THERE IS ANY VERTICAL STRUCTURAL REINFORCEMENT WITHIN CMU CORES. PIPING SHALL NOT PENETRATE THROUGH GROUT LINES OR CMU CORES THAT HAVE VERTICAL STRUCTURAL REINFORCING.
- 8 PROVIDE TENANT WATER BILLING METER WM-1 AND CONNECT TO DATA ACQUISITION SERVER MZ LOCATED AT MEZZANINE LEVEL. SEE DIAGRAM ON E-601DG.
- 9 1/2" (15) HW, 1/2" (15) TW & 1/2" (15) CW DN TO TMV-2
- 10 GASOLINE AND SAND INTERCEPTOR ETR
- 11 1/2" (15) TW DN, 1 1/2" (40) SAN DN & 1 1/2" (40) VP UP. 1 1/2" (40) SAN DN THRU FL INSIDE 2 1/2" (65) PIPE SLEEVE.
- 12 EMERGENCY THERMOSTATIC MIXING VALVE (ASSE 1071); INSTALL AS HIGH AS POSSIBLE & SET TEMPERATURE TO 80°F (26.7°C).
- 13 EMERGENCY EYEWASH MOUNTED ON WALL; INSTALL TO BE ADA COMPLIANT.
- 14 EMERGENCY THERMOSTATIC MIXING VALVE (ASSE 1071); INSTALL ABOVE CEILING IN ACCESSIBLE LOCATION.
- 15 1 1/2" (40) SAN DN THRU FL INSIDE 2 1/2" (65) PIPE SLEEVE & 1 1/2" (40) VP UP.
- 16 1/2" (15) TW DN; CONNECT TO INLET ON EYEWASH.
- 17 LOCK VALVES IN OPEN POSITION & PROVIDE TAG INDICATING VALVES SERVE EMERGENCY EQUIPMENT.

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FOR CONSTRUCTION

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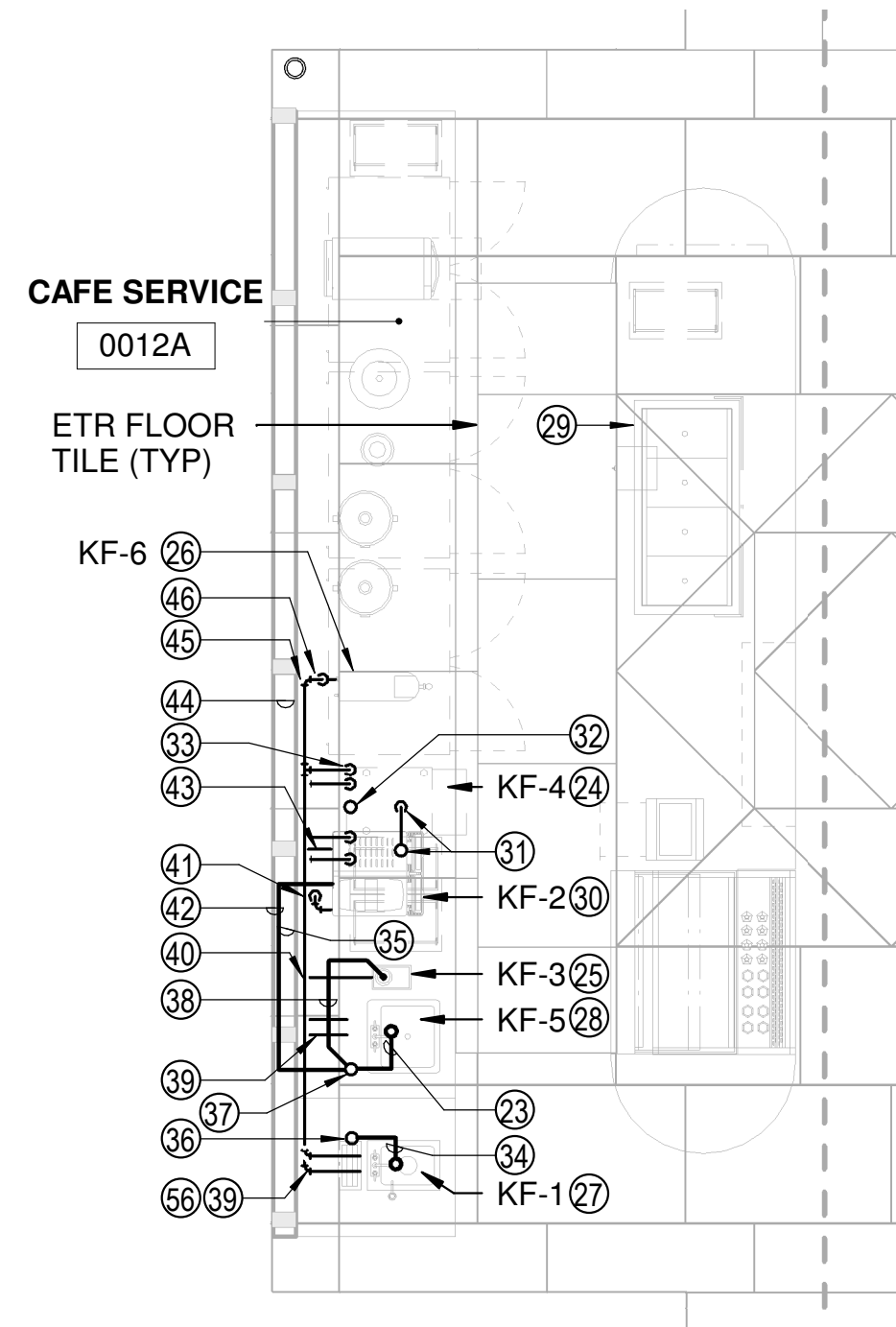
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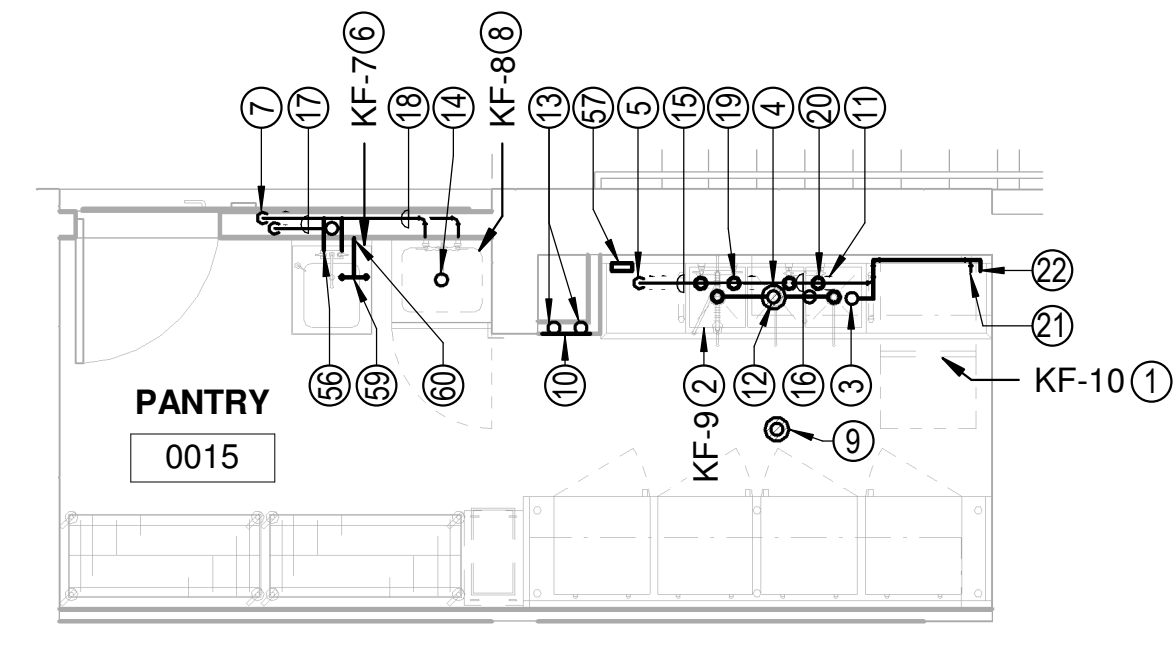
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DRAWING TITLE	PLUMBING PART PLANS
WORKING STAFF	TGS DKR JSC
DESIGNED BY	TGS
DRAWN BY	DKR
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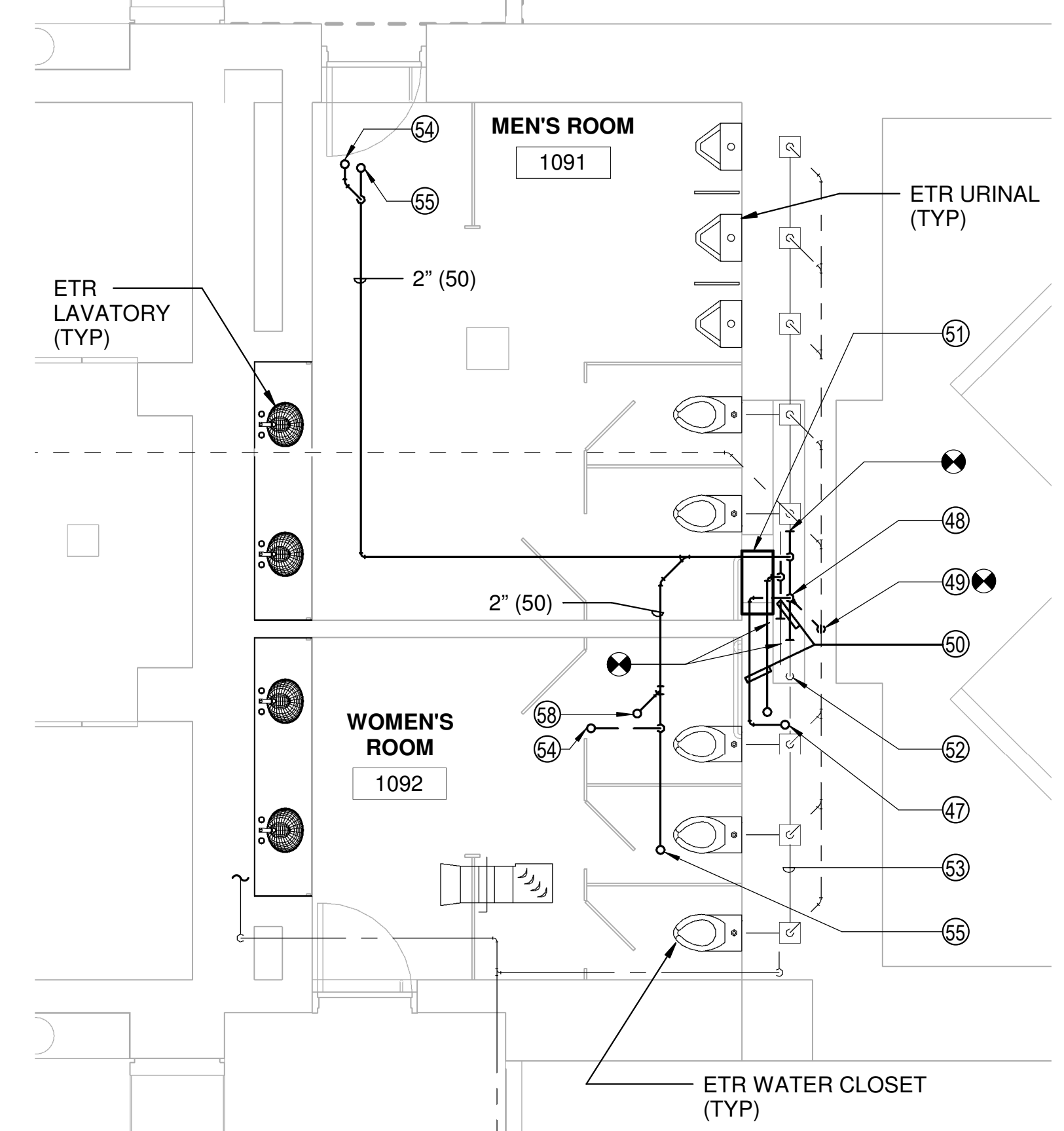
SHEET NO.	P-401
50 of 103	



1
P-402
GROUND LEVEL PLUMBING PART PLAN
SCALE = 1/4" = 1'-0"



2
P-402
GROUND LEVEL PLUMBING PART PLAN
SCALE = 1/4" = 1'-0"



3
P-402
B1 LEVEL PLUMBING PART PLAN
SCALE = 1/4" = 1'-0"

SPECIFIC NOTES (CONTINUED):

60 EMERGENCY THERMOSTATIC MIXING VALVE INSTALLED INSIDE SHROUD OF HANDWASHING SINK. PROVIDE INDIVIDUAL ANGLE SUPPLY STOPS ON CW/HW PIPING SERVING EMERGENCY THERMOSTATIC MIXING VALVE.

SPECIFIC NOTES (CONTINUED):

42 1" (25) SAN (FOG) IW IN CHASE; TERMINATE BY AIR GAP TO 4" (100) OPEN SITE DRAIN.

43 RO INLINE SHUTOFF VALVE INSTALL 8" (200) AFF. INSTALL FLEXIBLE S/S BRAIDED HOSE FURNISHED WITH ICE MAKER AND MAKE ALL FINAL CONNECTIONS.

44 1/2" (15) RO IN CHASE.

45 RO INLINE SHUTOFF VALVE; INSTALL 24" (600) AFF.

46 1/2" (15) RO DN THRU COUNTERTOP W/ GROMMET. MAKE FINAL CONNECTION TO HOT WATER DISPENSER.

47 1 1/4" (32) CW & 3" (80) SAN UP TO MEZZANINE LEVEL. CONNECT TO EX 2" (50) CW & 4" (100) SAN IN PIPE CHASE.

48 PRIOR TO CONNECTING 3" (80) SAN TO NEW 4" (100) SAN PROVIDE FITTINGS IN ORDER TO FACILITATE THE ADDITION OF 3" (80) RUNNING TRAP IN THE FUTURE.

49 1 1/2" (40) VP UP, CONNECT TO 3" (80) SAN NEAR BASE & CONNECT TO EX 3" (80) SAN VP IN CHASE ASSOC. WITH WATER CLOSETS.

50 PIPING INSTALLED INSIDE ACCESSIBLE PIPE CHASE.

51 ETR 24"x24" (600x600) ACCESS DOOR NEAR FLOOR TO BE UTILIZED TO ACCESS PIPE CHASE TO MAKE NEW TO EXISTING PIPING CONNECTIONS.

52 ETR 4" (100) SAN DN THRU FLOOR.

53 ETR 4" (100) SAN ABOVE FLOOR IN PIPE CHASE.

54 1 1/2" (40) VP UP THRU FLOOR INSIDE 2 1/2" (65) PIPE SLEEVE.

55 2" (50) SAN UP TO FLOOR DRAIN AT MEZZANINE LEVEL.

56 PROVIDE INDIVIDUAL TMV (ASSE 1070) AND SET AT 100 DEG F.

57 INLINE AUTOMATIC TRAP PRIMING SYSTEM MOUNTED ON WALL BELOW THREE COMPARTMENT SINK; SEE DETAILS 2, 3.

58 1 1/2" (40) SAN UP THRU FLOOR INSIDE 2 1/2" (65) PIPE SLEEVE TO EMERGENCY EYEWASH.

59 EMERGENCY EYEWASH BACKSPASH MOUNTED, PULL-DOWN ACTIVATED, ADA COMPLIANT INSTALLATION.

SPECIFIC NOTES (CONTINUED):

28 WORK SINK; SEE KITCHEN DWGS.

29 COLD FOOD WELL; SEE KITCHEN DWGS. SPECIFIED WITH CONDENSATE EVAPORATOR.

30 ESPRESSO MACHINE, COUNTER MOUNTED; SEE KITCHEN DWGS. SEE DETAIL 4.

31 1 1/2" (40) VP DN THRU FLOOR INSIDE 2 1/2" (65) PIPE SLEEVE ASSOCIATED WITH SANITARY SERVING ICE MACHINE. TERMINATE WITH AIR ADMITTANCE VALVE ON SIDE OF ICE MACHINE.

32 2" (50) SAN DN THRU FLOOR INSIDE 3" (80) PIPE SLEEVE ASSOCIATED WITH SANITARY OPEN SITE DRAIN SERVING ICE MACHINE. SEE DETAIL 1.

33 1/2" (15) CW, 1/2" (15) HW, 1/2" (15) HWR & 3/4" (20) RO DN THROUGH FLOOR INSIDE 5" (125) DIAMETER PIPE SLEEVE.

34 1 1/2" (40) SAN IW; TERMINATE BY AIR GAP TO 3" (80) OPEN SITE DRAIN.

35 1/2" (15) CW, 1/2" (15) HW, 1/2" (15) HWR & 3/4" (20) CW (F) IN CHASE WALL BEHIND CULINARY CASEWORK; INSTALL IN STACKED ARRANGEMENT. SUPPORT PIPING FROM STUDS.

36 2" (50) SAN DN THRU FLOOR INSIDE 3" (80) PIPE SLEEVE ASSOCIATED WITH P-TRAP AND 4" (100) OPEN SITE DRAIN SERVING HANDWASHING SINK. SEE DETAIL 3.

37 2" (50) SAN (FOG) DN THRU FLOOR INSIDE 3" (80) PIPE SLEEVE ASSOCIATED WITH P-TRAP AND 4" (100) OPEN SITE DRAIN SERVING WORK SINK, ESPRESSO MACHINE & COUNTERTOP RINSER. SEE DETAIL 3.

38 1/2" (15) SAN (FOG) IW PIPE; TERMINATE BY AIR GAP TO 4" (100) OPEN SITE DRAIN.

39 CW/HW SUPPLY STOPS. INSTALL 18" (457) AFF. PROVIDE FLEXIBLE S/S BRAIDED HOSE (LENGTH AND FITTINGS AS REQUIRED) AND MAKE FINAL CONNECTION TO SINK FAUCET.

40 CW SUPPLY STOP. INSTALL 18" (457) AFF. PROVIDE 3/8" (10) INLINE BFP (ASSE 1024) AND MAKE FINAL CONNECTION TO COUNTERTOP RINSER.

41 3/8" (10) RO & 1" (25) SAN (FOG) IW DN THRU COUNTERTOP W/ GROMMET. MAKE FINAL CONNECTIONS TO ESPRESSO MACHINE.

GENERAL NOTES:

A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

B. DO NOT LOCATE PIPING ABOVE ELECTRICAL PANELS OR EQUIPMENT.

C. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF FLOOR PENETRATIONS AND FIRESTOPPING REQUIREMENTS.

D. IN AREA OF THE PROPOSED CAFE PROVIDE GROUND PENETRATION RADAR OF THE FLOOR STRUCTURE AND SUBMIT FINDINGS IN THE FORM OF A SCALED DRAWING TO COTR FOR REVIEW. PLAN SHALL INCLUDE OUTLINE OF STRUCTURE BELOW INCLUDING THE EXISTING TILE WORK. NO PENETRATIONS OF THE FLOOR SHALL OCCUR UNTIL COTR HAS REVIEWED AND PROVIDED COMMENT.

SPECIFIC NOTES:

1 UNDERCOUNTER DISHWASHER; SEE DETAIL 4. (SEE KITCHEN DWGS). P-402|P-501

2 THREE COMPARTMENT SINK; SEE DETAIL 3. (SEE KITCHEN DWGS). P-402|P-501

3 18" (458) STANDPIPE; SEE DETAIL 4. P-402|P-501

4 3" (80) FS-B; SAN (FOG); SEE DETAIL 3. P-402|P-503

5 3/4" (20) CW, 3/4" (20) HW, 1/2" (15) HWR & 1/2" (15) TP DOWN THROUGH FLOOR INSIDE 5" (125) DIAMETER PIPE SLEEVE.

6 HAND SINK (WALL MOUNTED); SEE KITCHEN DWGS.

7 1 1/2" (40) SAN, 1/2" (15) CW & 1/2" (15) HW DN THRU FLOOR INSIDE 5" (125) PIPE SLEEVE. 1 1/2" (40) VP UP, TERMINATE ABOVE CEILING WITH AIR ADMITTANCE VALVE.

8 MOP BASIN CABINET W/ 2" (50) SAN OUTLET ON BTM; SEE KITCHEN DWGS.

9 2" (50) FD-C; SEE DETAIL 4. P-402|P-503

10 LOUVERED WALL ACCESS PANEL 12"x12" (300x300); INSTALL BTM OF PANEL 18" (450) AFF.

11 1 1/2" (40) VP DN THRU FLOOR INSIDE 2 1/2" (65) PIPE SLEEVE ASSOCIATED WITH SANITARY PIPING SERVING DISHWASHER. TERMINATE WITH AIR ADMITTANCE VALVE 6" (150) AFF.

12 3" (80) SAN (FOG) DN.

13 1 1/2" (40) VP DN THRU FLOOR INSIDE 2 1/2" (65) PIPE SLEEVE. 1 1/2" (40) VP UP, TERMINATE 24" (600) AFF WITH AIR ADMITTANCE VALVE LOCATED BEHIND 12"x12" (300x300) LOUVERED ACCESS PANEL IN WALL.

14 2" (50) SAN (FOG) DN.

15 3/4" (20) CW, 3/4" (20) HW & 1/2" (15) HWR INSTALL IN STACKED ARRANGEMENT ALONG WALL SUPPORTED FROM FLOOR. MAINTAIN MIN. 8" (203) FROM WALL TO PIPING AS REQUIRED FOR CLEANING WALL AND PIPING. (DO NOT INSULATE PIPING).

16 1 1/2" (40) SAN (FOG) IW PIPING TERMINATE BY AIR GAP TO FLOOR SINK; TYP OF 3.

17 1 1/2" (40) SAN, 1/2" (15) CW & 1/2" (15) HW IN WALL.

18 1/2" (15) CW & 1/2" (15) HW IN WALL TO MOP BASIN FAUCET.

19 1/2" (15) CW & 1/2" (15) HW UP TO PRE-RINSE FAUCET W/ ADD-ON FAUCET.

20 1/2" (15) CW & 1/2" (15) HW UP TO SWING FAUCET.

21 DISHWASHER CW INLET; INSTALL 6 FT (1830) FLEXIBLE WATER SUPPLY HOSE FURNISHED W/ DISHWASHER.

22 DISHWASHER WASTE OUTLET; INSTALL 6 FT (1830) FLEXIBLE DRAIN HOSE FURNISHED W/ DISHWASHER.

23 1 1/2" (40) SAN (FOG) IW; TERMINATE BY AIR GAP TO 4" (100) OPEN SITE DRAIN.

24 UNDERCOUNTER ICEMAKER; SEE DETAIL 1. (SEE KITCHEN DWGS). P-402|P-502

25 COUNTERTOP RINSER; SEE DETAIL 2. (SEE KITCHEN DWGS). P-402|P-502

26 HOT WATER DISPENSER; SEE DETAIL 3. (SEE KITCHEN DWGS). P-402|P-502

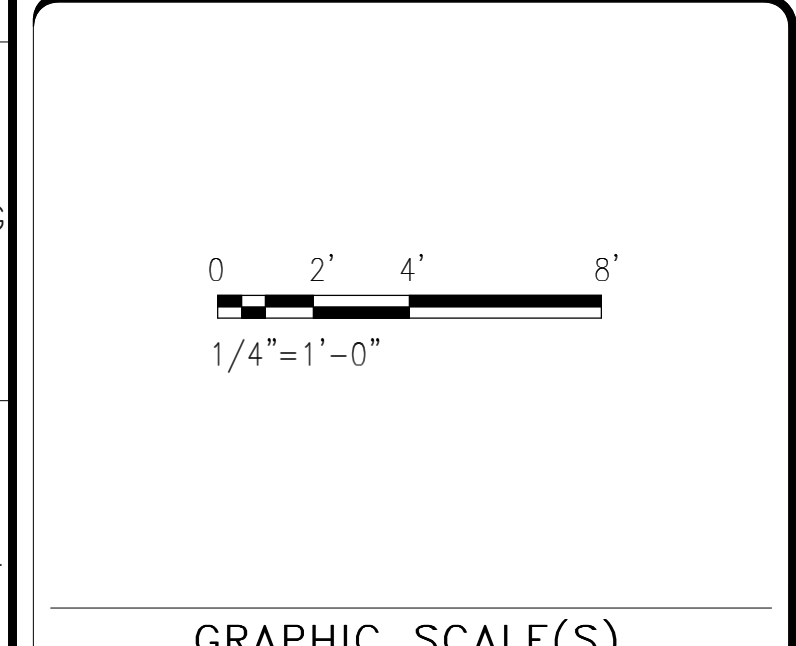
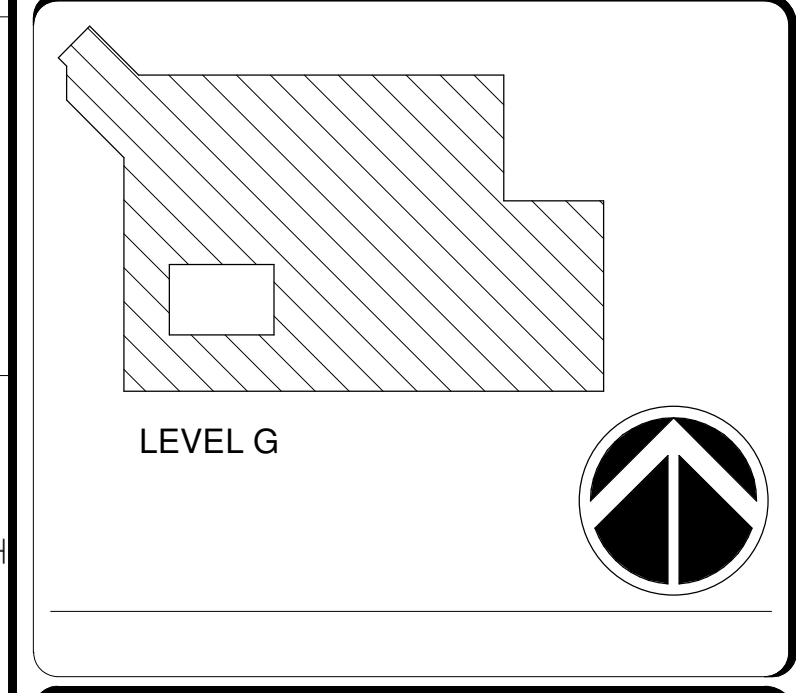
27 HAND SINK; SEE KITCHEN DWGS.

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FOR CONSTRUCTION

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DISTRICT OF COLUMBIA
REGISTERED PROFESSIONAL ENGINEER
No. 90588



DATE	07/18/24	REVISION	Final Construction Documents
REVISION #		REVISION DESCRIPTION	

Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	PLUMBING PART PLANS
WORKING STAFF	TGS DKR JSC
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NOTES:

- THIS DIAGRAM IS DIAGRAMMATIC AND PIPING ARRANGEMENT ON FLOOR PLAN MAY BE DIFFERENT. ALL VALVES AND APPURTENANCES SHOWN IN THIS DIAGRAM DO NOT APPEAR ON THE FLOOR PLAN, PROVIDE ALL SHOWN PER DIAGRAM.
- ARRANGE THERMOSTATIC MIXING VALVE, RECIRCULATION PUMP, AND ASSOCIATED VALVES & GAUGES ON WALL OR EQUIPMENT BACKBOARD ACCORDING TO DIAGRAM. MAXIMUM HEIGHT OF ANY VALVES OR GAUGES SHALL BE 72" (1830) ABV FINISHED FLOOR.
- MIXING VALVE SHALL BE INSTALLED AND BALANCED ACCORDING TO MANUFACTURER'S REQUIREMENTS.
- SHUTOFF VALVE ON LINE CONNECTING SYSTEM EXPANSION TANK SHALL HAVE LOCK, VALVE SHALL BE LOCKED IN THE OPEN POSITION.
- WATER HEATER SHALL BE FURNISHED WITH PRESSURE & TEMPERATURE RELIEF VALVE; INSTALL IN FIELD.
- WATER HEATER SHALL BE FURNISHED WITH MAIN DRAIN VALVE; INSTALL IN FIELD.
- WATER HEATER SHALL BE SECURED TO CONCRETE HOUSEKEEPING PAD PER MANUFACTURER'S INSTRUCTIONS.
- SUPPORT FROM UNDERSIDE OF STRUCTURE OR STRAP TO ADJACENT WALL.
- FLOODSAFE WATER DETECTOR SHUTOFF WATTS LFWDSP-L OR APPROVED EQUAL. SYSTEM SHUTS OFF WATER SUPPLY AND ELECTRIC TO WATER HEATER. CONNECT TO BUILDING AUTOMATION SYSTEM.
- 1/2" (15) DRAIN PIPING FROM RO RILTHER AND 1" (25) DRAIN FROM RO STORAGE TANK EMERGENCY DRAIN PAN SHOWN FOR INFORMATIONAL PURPOSES ONLY.
- 30 INCH BY 2 1/2" DEEP (750 BY 65) EMERGENCY DRAIN PAN WITH 1" (25) EMERGENCY DRAIN SHALL BE HOLDRITE QUICK PAN SERIES OR APPROVED EQUAL.
- ALL DRAINS SHALL BE HARD-PIPED TO FLOOR SINK, AND TERMINATED WITH AIR GAP.

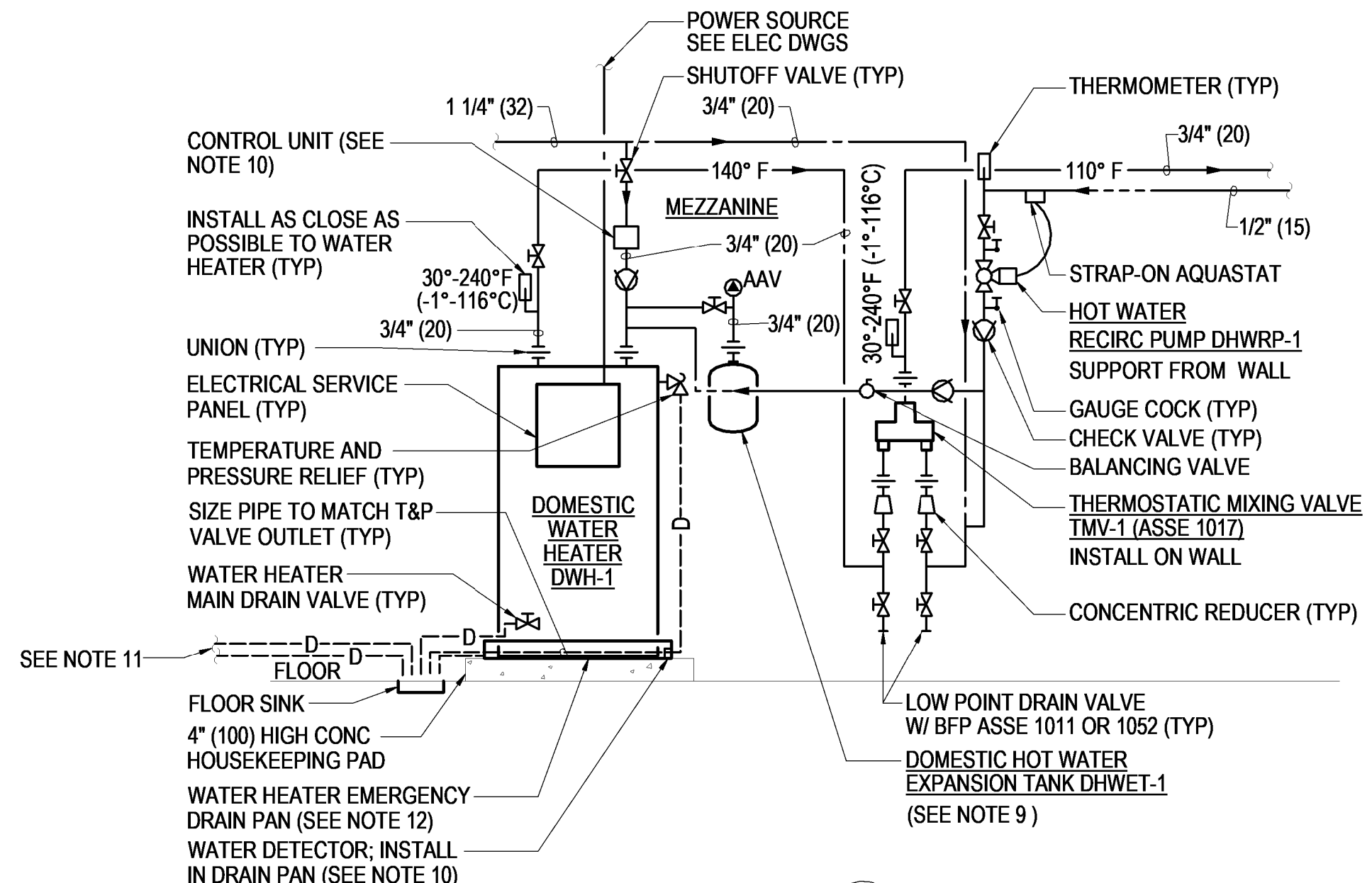
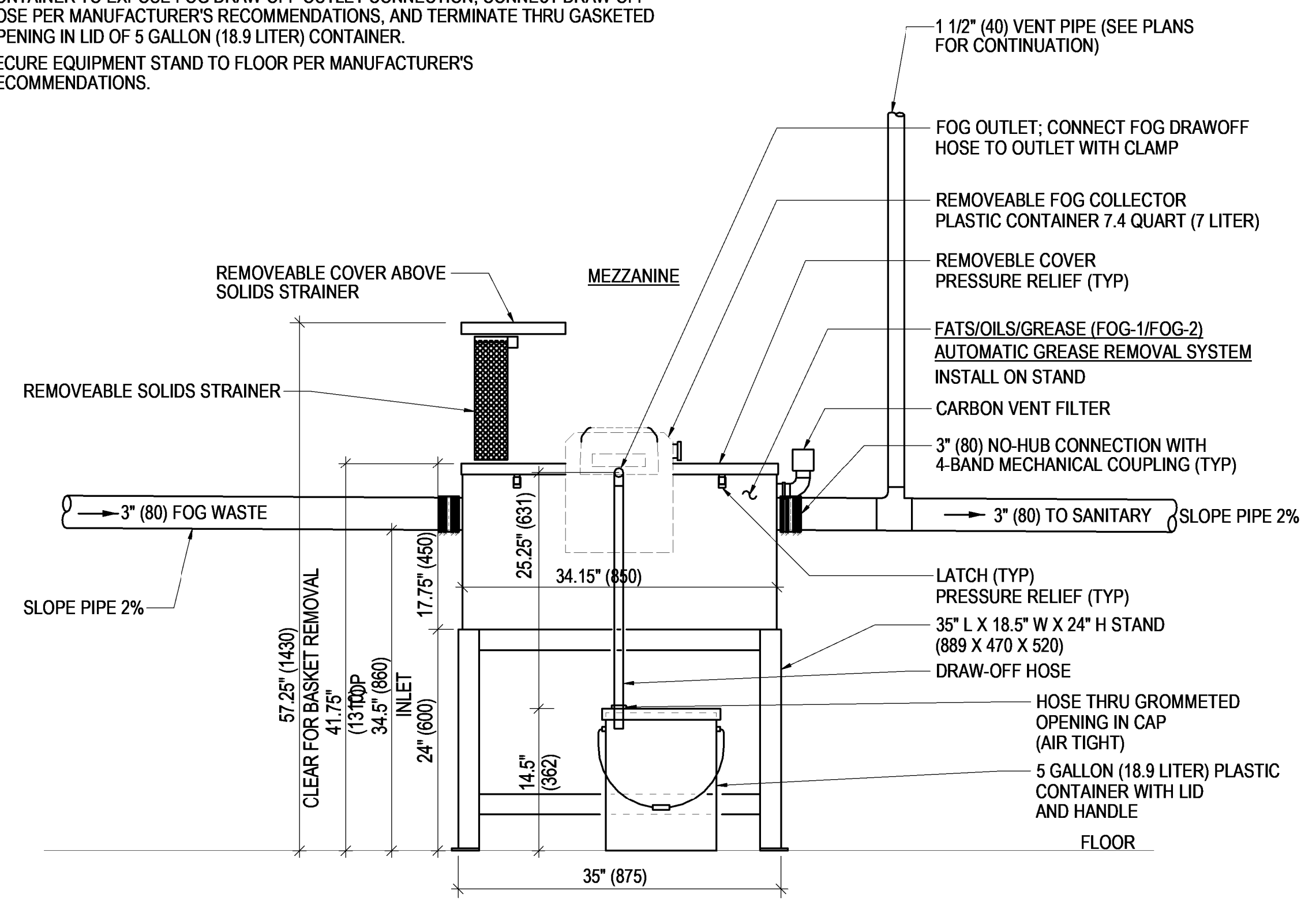


DIAGRAM 1
DOMESTIC WATER HEATER PIPING & ACCESSORIES
NOT TO SCALE

NOTES:

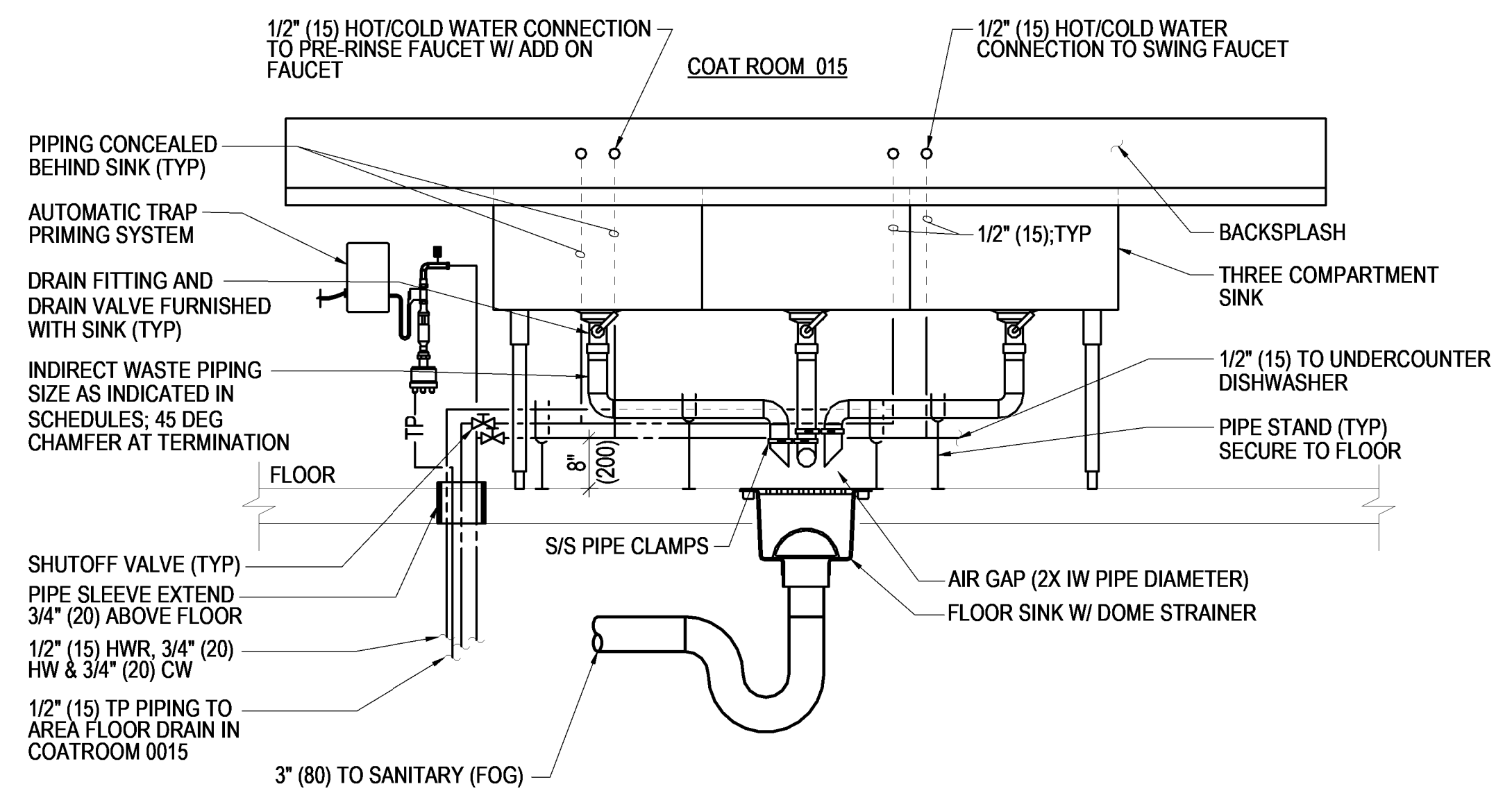
- INSTALL PER EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
- PROVIDE EQUIPMENT MANUFACTURER'S DRAW-OFF HOSE KIT SH-3-KIT. REMOVE SIDE CONTAINER TO EXPOSE FOG DRAW-OFF OUTLET CONNECTION, CONNECT DRAW-OFF HOSE PER MANUFACTURER'S RECOMMENDATIONS, AND TERMINATE THRU GASKETED OPENING IN LID OF 5 GALLON (18.9 LITER) CONTAINER.
- SECURE EQUIPMENT STAND TO FLOOR PER MANUFACTURER'S RECOMMENDATIONS.



DETAIL 2
FATS/OILS/GREASE INTERCEPTOR - EQUIPMENT AND PIPING INSTALLATION
NOT TO SCALE

NOTES:

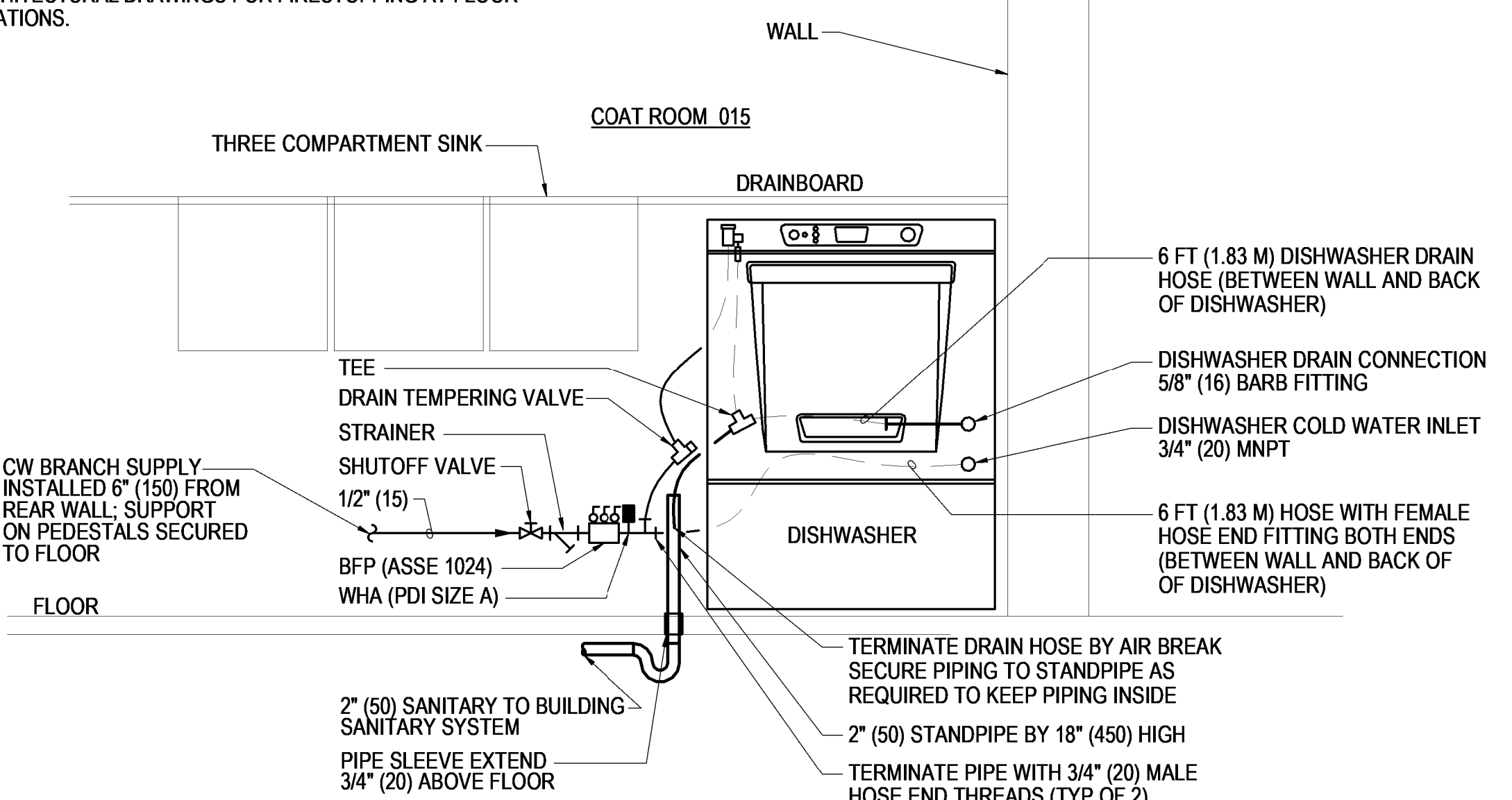
- INSTALL PER EQUIPMENT MANUFACTURERS INSTRUCTIONS.
- SUPPORT WATER SUPPLY PIPING FROM FLOOR WITH PIPE STANDS LOCATED 6" (150) TO CENTERLINE FROM WALL AS REQUIRED FOR HOUSEKEEPING.
- SEE ARCHITECTURAL DRAWINGS FOR FIRESTOPPING AT FLOOR PENETRATIONS.
- DO NOT INSULATE PIPING ABOVE FLOOR.
- EXPOSED SANITARY PIPING SHALL BE COPPER DWV.
- PROVIDE ALL NECESSARY FITTINGS REQUIRED TO CONNECT WATER AND DRAIN PIPING TO FAUCETS.
- COORDINATE PIPING INSTALLATION WITH CROSS MEMBER SUPPORTS BETWEEN PEDESTAL LEGS.



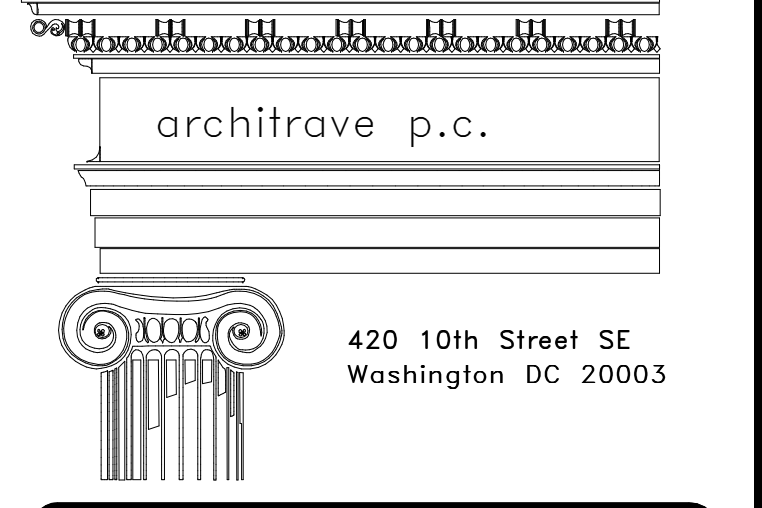
DETAIL 3
THREE COMPARTMENT SINK PIPING INSTALLATION
NOT TO SCALE

NOTES:

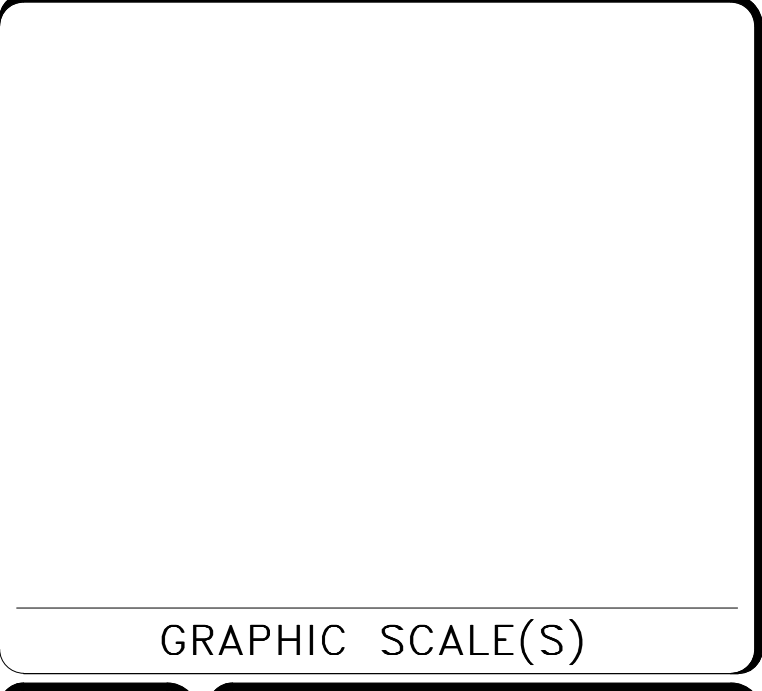
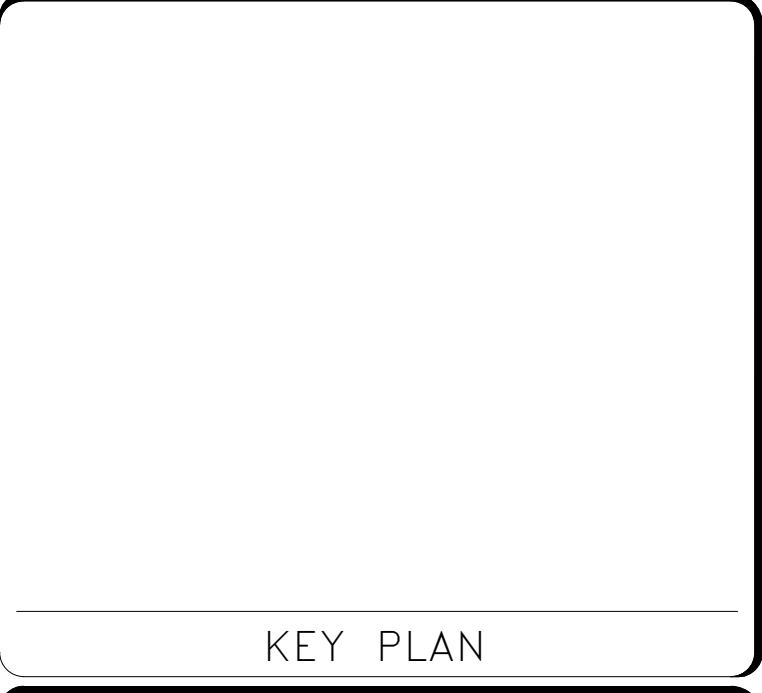
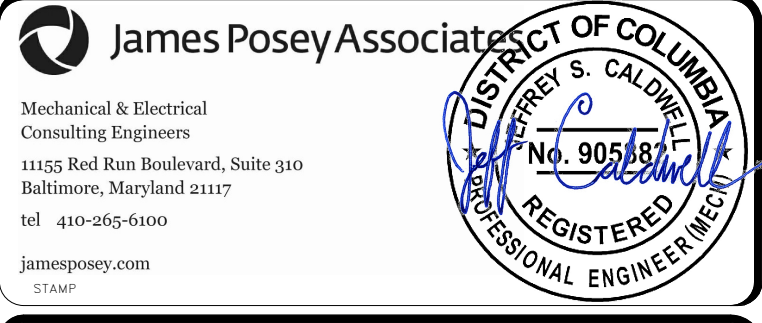
- INSTALL PER EQUIPMENT MANUFACTURERS INSTRUCTIONS.
- EQUIPMENT FURNISHED WITH SUPPLY AND DRAIN HOSES; INSTALL IN FIELD.
- DISHWASHER SHALL BE PROVIDED WITH MANUFACTURER'S FURNISHED DRAIN TEMPERING KIT THAT INCLUDES TEMPERING VALVE, BACKFLOW PREVENTER, AND ALL NECESSARY HOSES AND CLAMPS.
- SUPPORT COLD WATER SUPPLY PIPING FROM FLOOR WITH PIPE STANDS LOCATED 6" (150) TO CENTERLINE FROM WALL AS REQUIRED FOR HOUSEKEEPING.
- DISHWASHER HAS INTERNAL BACKFLOW PREVENTION. BACKFLOW PREVENTER SHOWN EXTERNAL OF DISHWASHER ONLY REQUIRED IF DIRECTED BY SI.
- SEE ARCHITECTURAL DRAWINGS FOR FIRESTOPPING AT FLOOR PENETRATIONS.
- DO NOT INSULATE PIPING.
- EXPOSED SANITARY PIPING SHALL BE COPPER DWV. TRANSITION OF PIPING MATERIALS SHALL OCCUR BELOW FLOOR.



DETAIL 4
UNDERCOUNTER DISHWASHER PIPING INSTALLATION
NOT TO SCALE



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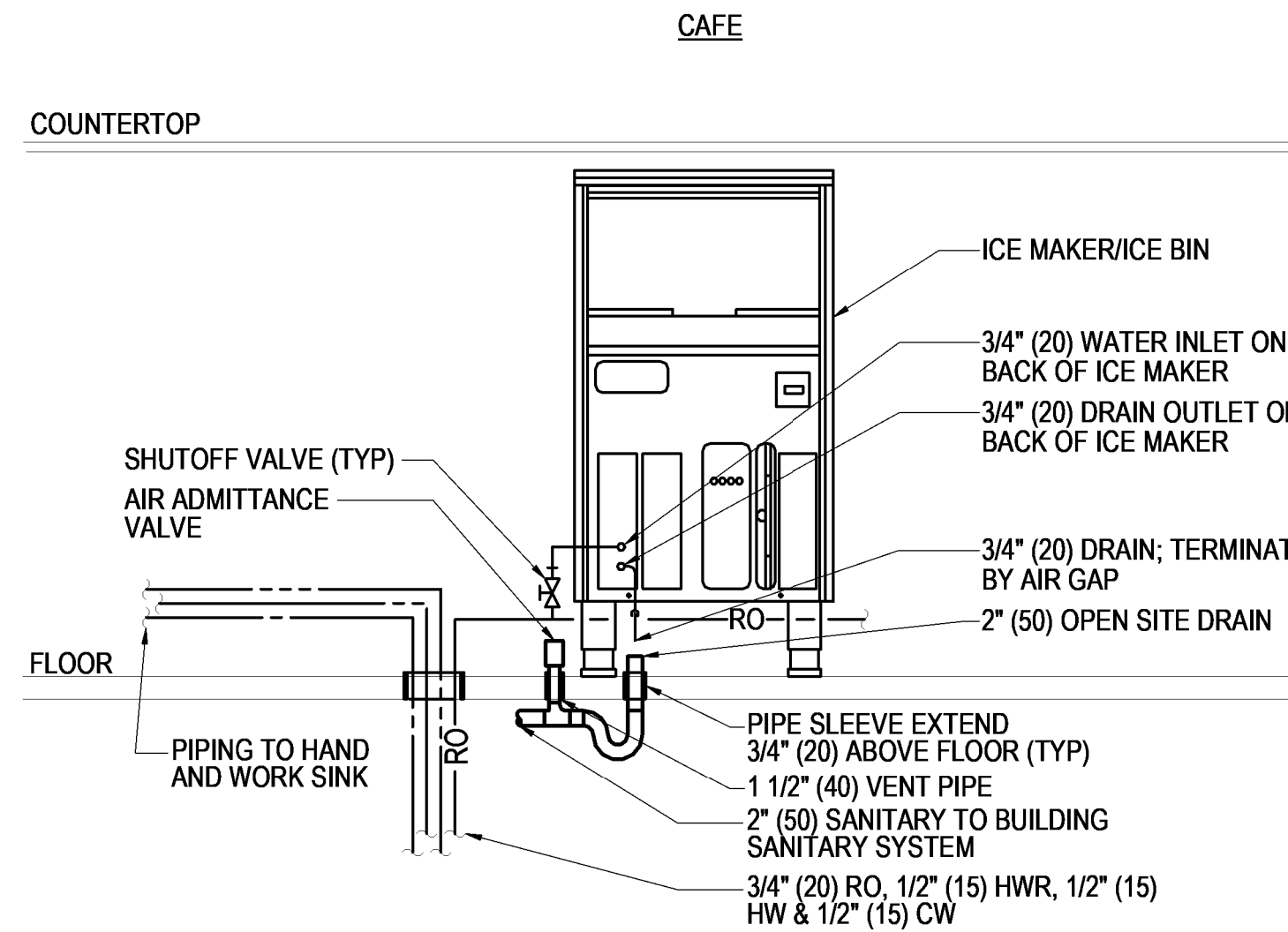


BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	PLUMBING DETAILS
WORKING STAFF	TGS DKR JSC

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NOTES:

1. INSTALL PER EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
2. SUPPORT WATER SUPPLY PIPING FROM FLOOR WITH PIPE STANDS LOCATED 6" (150) TO CENTERLINE FROM WALL AS REQUIRED FOR HOUSEKEEPING.
3. ICE MAKER HAS INTERNAL BACKFLOW PREVENTION, BACKFLOW PREVENTER SHOWN EXTERNAL OF DISHWASHER ONLY REQUIRED IF DIRECTED BY SI.
4. SEE ARCHITECTURAL DRAWINGS FOR FIRESTOPPING AT FLOOR PENETRATIONS.
5. ICE MAKER DRAIN PIPING SHALL BE TYPE L OR K COPPER TUBING.
6. DO NOT INSULATE PIPING.
7. SEE ARCHITECTURAL DRAWINGS FOR FIRESTOPPING AT FLOOR PENETRATIONS.
8. EXPOSED SANITARY PIPING SHALL BE COPPER DWV, TRANSITION PIPING MATERIALS SHALL OCCUR BELOW FLOOR.
9. PROVIDE ALL NECESSARY FITTINGS REQUIRED TO CONNECT WATER AND DRAIN PIPING TO ICE MAKER.



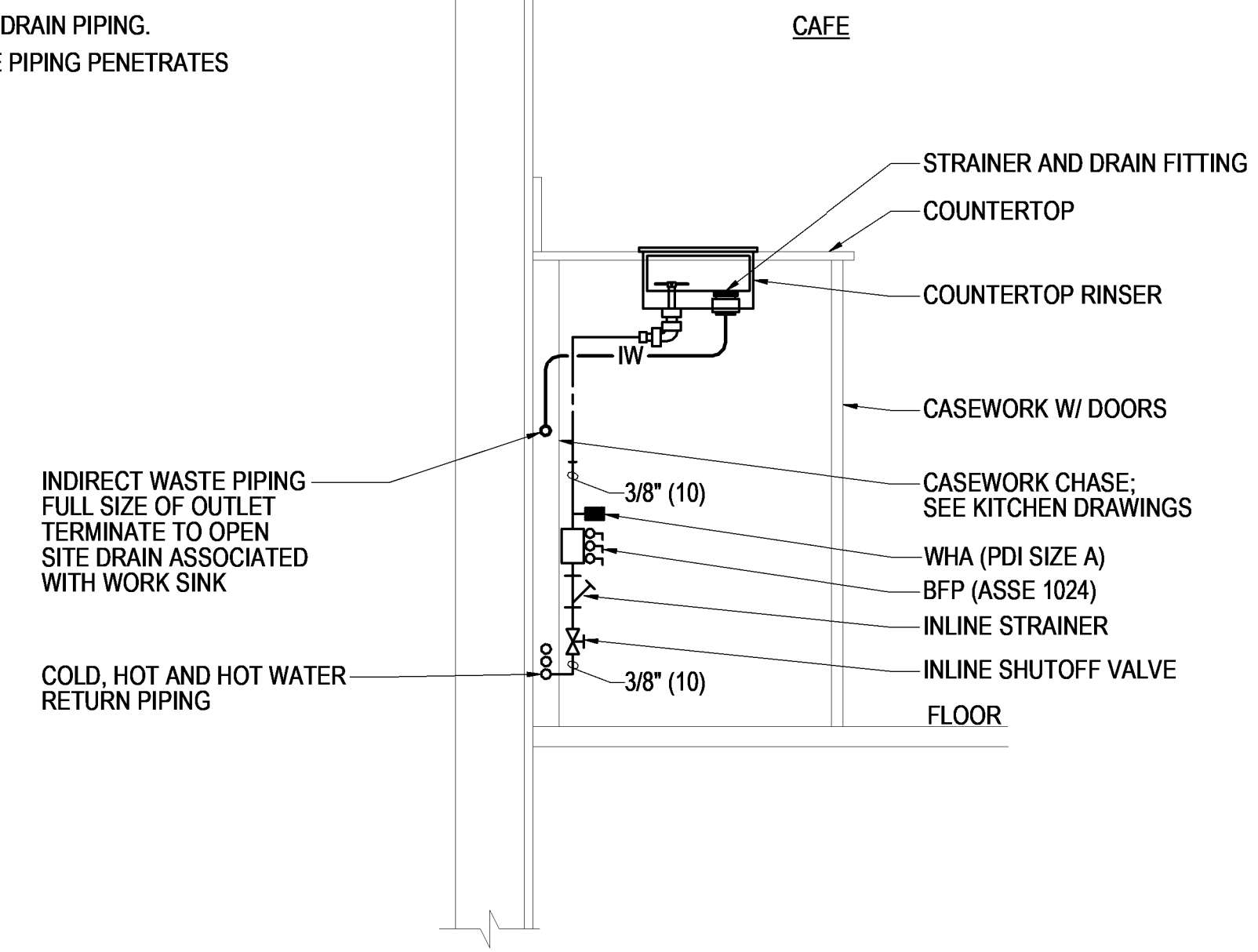
DETAIL 1
P-502

UNDERCOUNTER ICE MAKER/ICE BIN PIPING INSTALLATION

NOT TO SCALE

NOTES:

1. INSTALL PER EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
2. SUPPORT WATER SUPPLY AND DRAIN PIPING FROM STUDS FORMING CHASE BEHIND CASEWORK.
3. WATER SUPPLY FITTINGS FURNISHED WITH COUNTERTOP RINSER.
4. STRAINER, DRAIN FITTING AND TAILPIECE FURNISHED WITH COUNTERTOP RINSER.
5. PROVIDE MANUFACTURER'S RECOMMENDED WATER SUPPLY TUBING AND NECESSARY FITTINGS TO MAKE CONNECTIONS TO FIXTURE SUPPLY PIPING AND WATER INLET.
6. EXPOSED SANITARY PIPING SHALL BE COPPER TYPE L OR K.
7. INSULATE WATER SUPPLY AND DRAIN PIPING.
8. PROVIDE ESCUTCHEON WHERE PIPING PENETRATES CASEWORK.



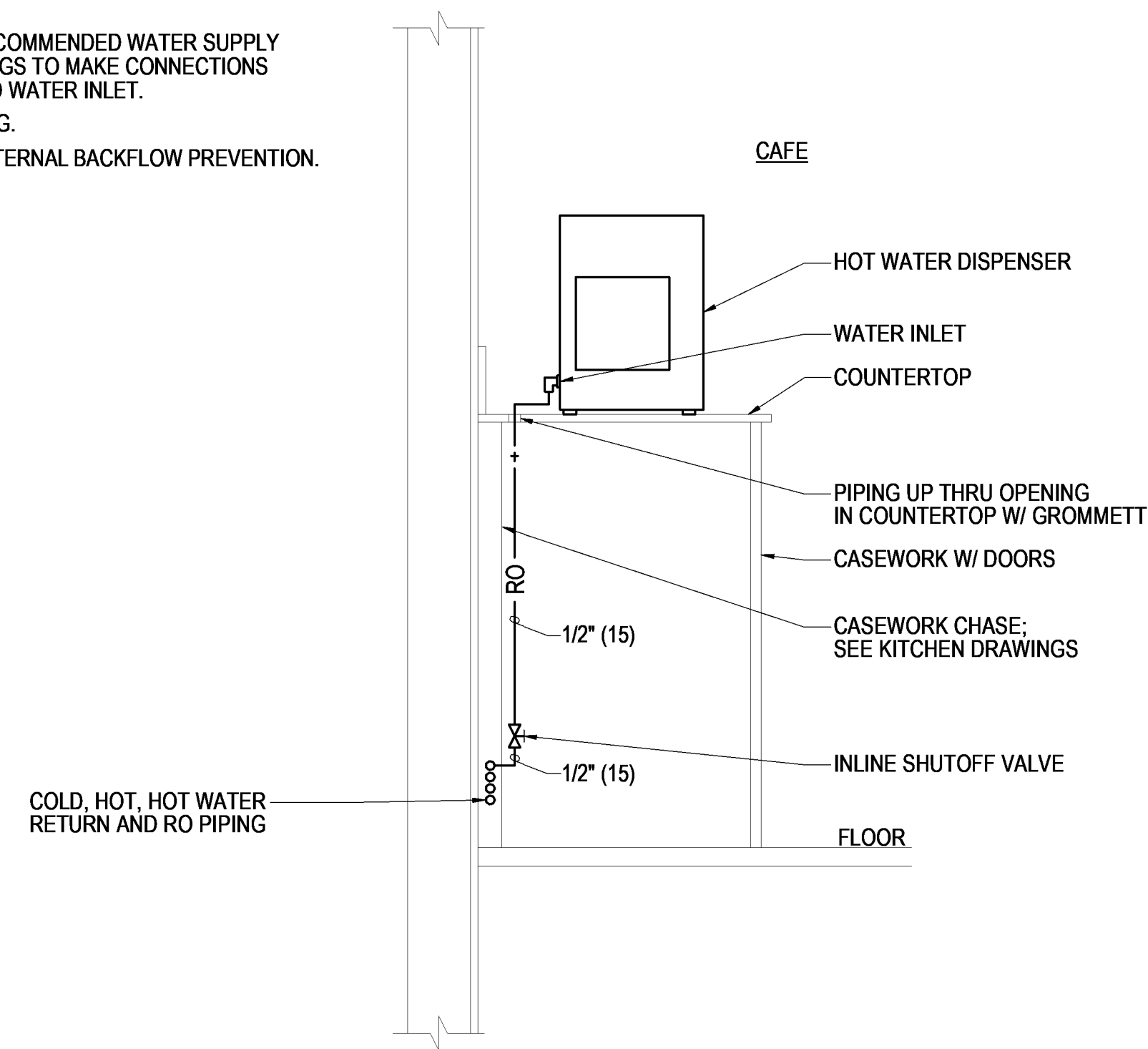
DETAIL 2
P-502

COUNTERTOP RINSER PIPING INSTALLATION

NOT TO SCALE

NOTES:

1. INSTALL PER EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
2. SUPPORT WATER SUPPLY AND DRAIN PIPING FROM STUDS FORMING CHASE BEHIND CASEWORK.
3. WATER SUPPLY FITTINGS FURNISHED WITH HOT WATER DISPENSER.
4. PROVIDE MANUFACTURER'S RECOMMENDED WATER SUPPLY TUBING AND NECESSARY FITTINGS TO MAKE CONNECTIONS TO FIXTURE SUPPLY PIPING AND WATER INLET.
5. INSULATE WATER SUPPLY PIPING.
6. HOT WATER DISPENSER HAS INTERNAL BACKFLOW PREVENTION.



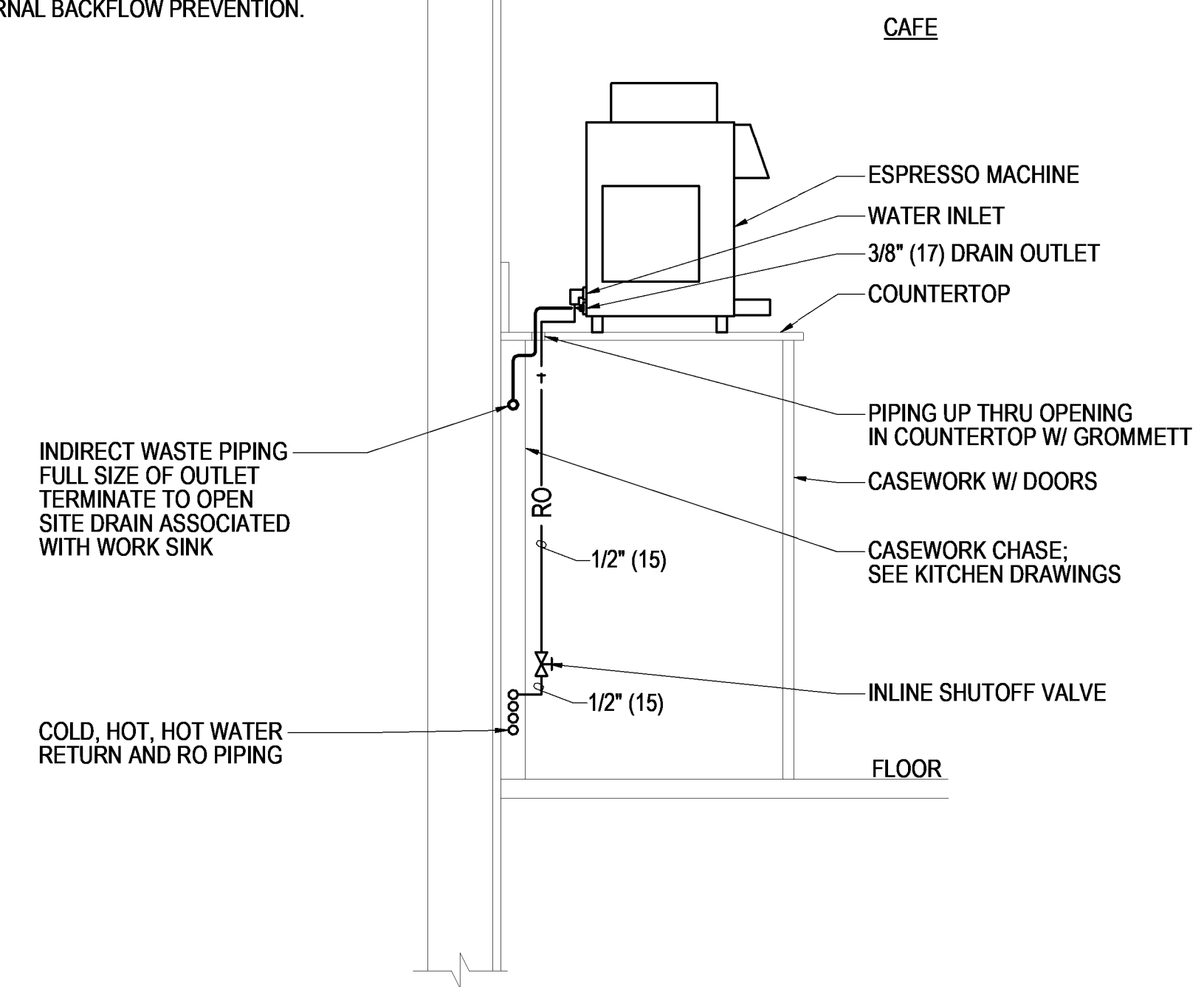
DETAIL 3
P-502

HOT WATER DISPENSER PIPING INSTALLATION

NOT TO SCALE

NOTES:

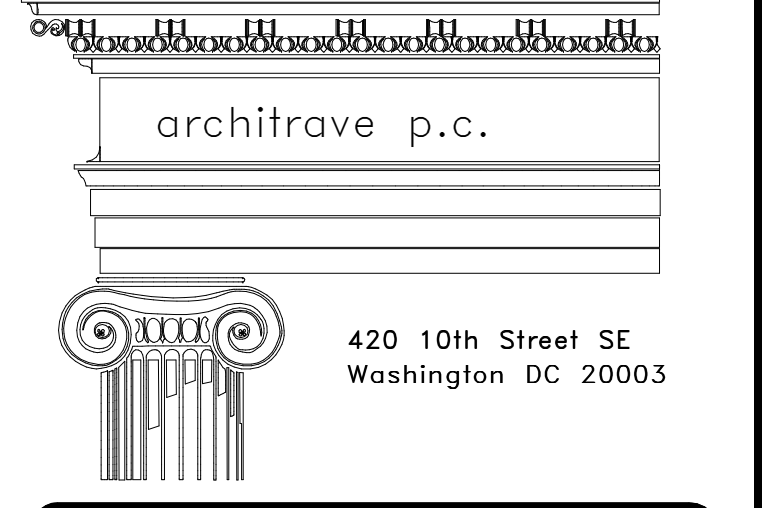
1. INSTALL PER EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
2. SUPPORT WATER SUPPLY AND DRAIN PIPING FROM STUDS FORMING CHASE BEHIND CASEWORK.
3. PROVIDE MANUFACTURER'S RECOMMENDED WATER SUPPLY TUBING AND NECESSARY FITTINGS TO MAKE CONNECTIONS TO FIXTURE SUPPLY PIPING AND WATER INLET.
4. INSULATE WATER SUPPLY PIPING.
5. ESPRESSO MACHINE HAS INTERNAL BACKFLOW PREVENTION.



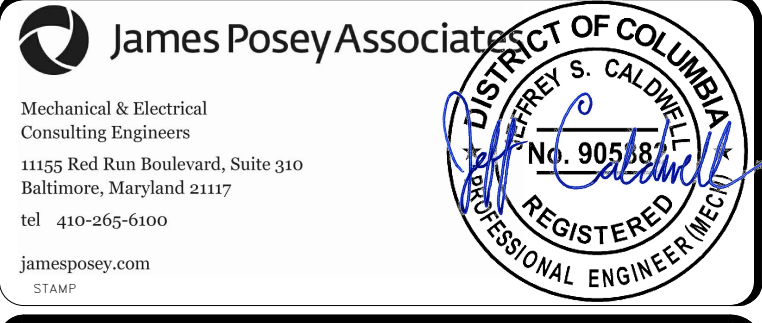
DETAIL 4
P-502

ESPRESSO MACHINE PIPING INSTALLATION

NOT TO SCALE



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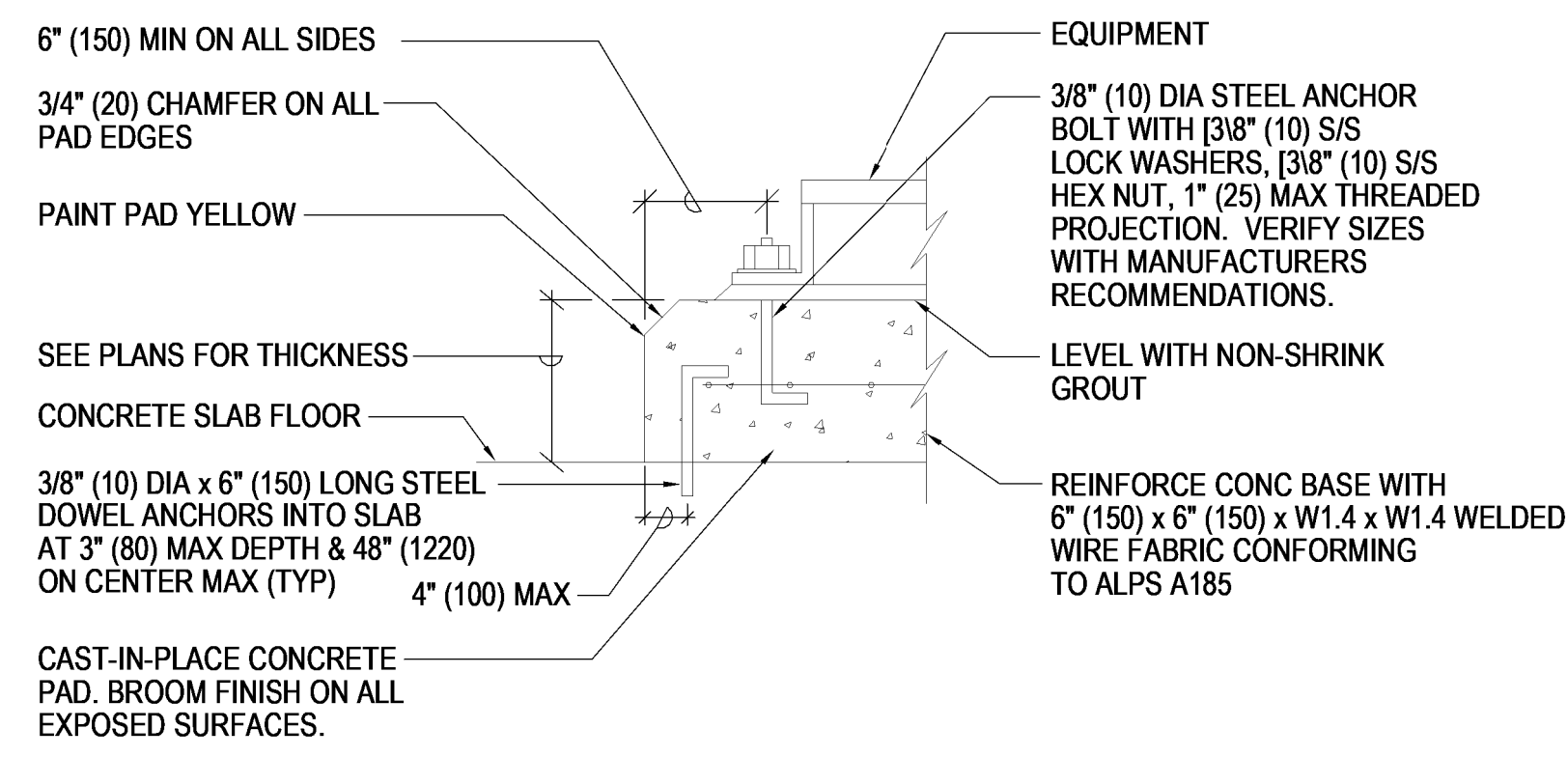
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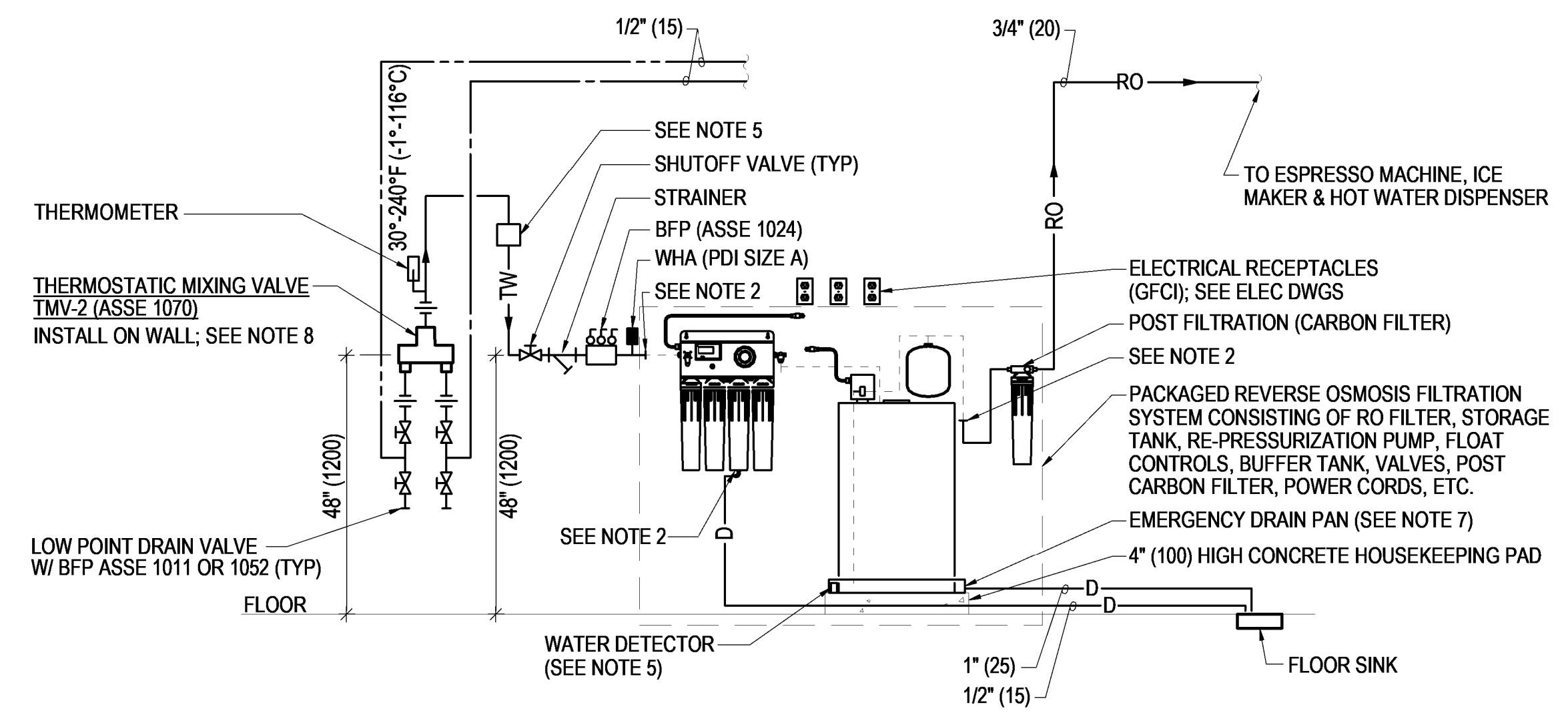
BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	PLUMBING DETAILS
WORKING STAFF	TGS DKR JSC

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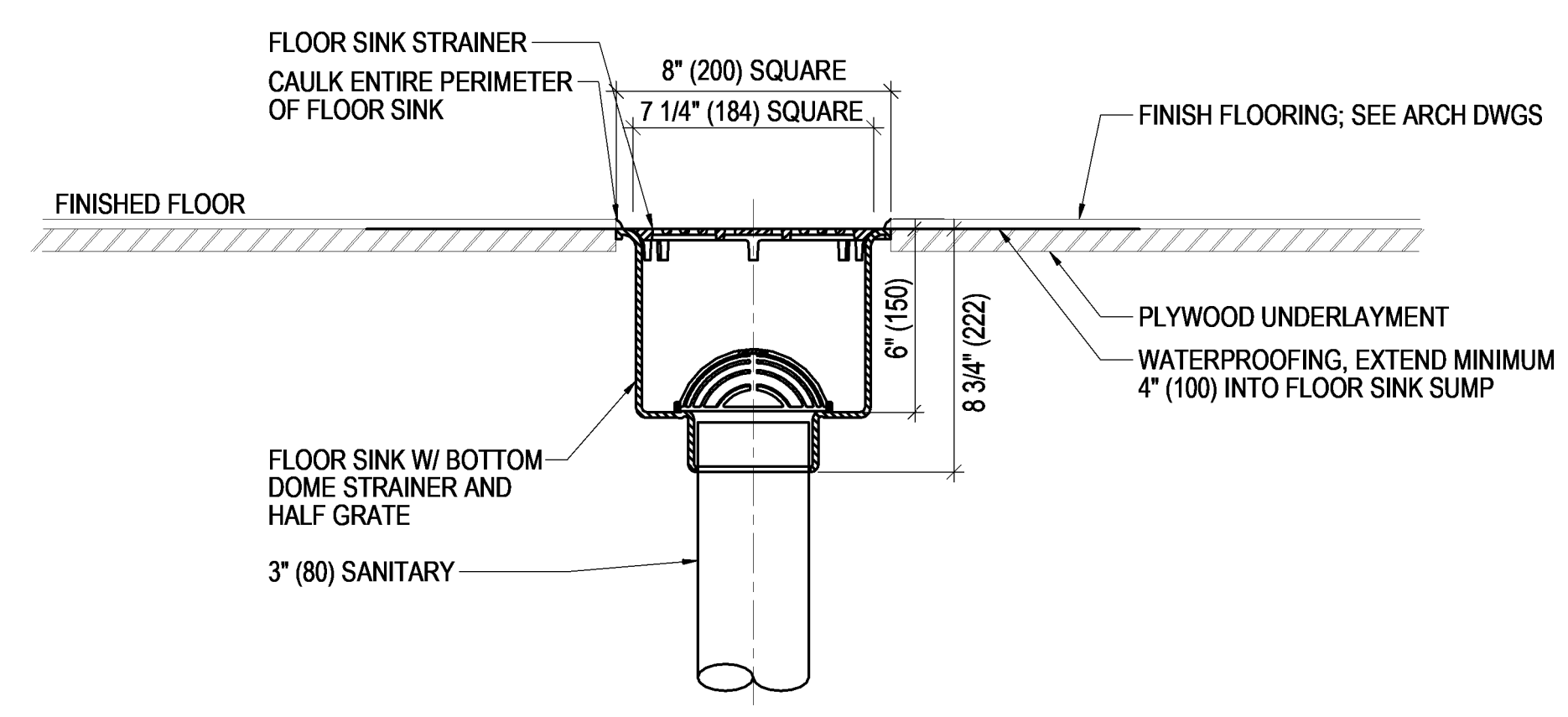


DETAIL 1
TYPICAL CONCRETE HOUSEKEEPING PAD
 NOT TO SCALE

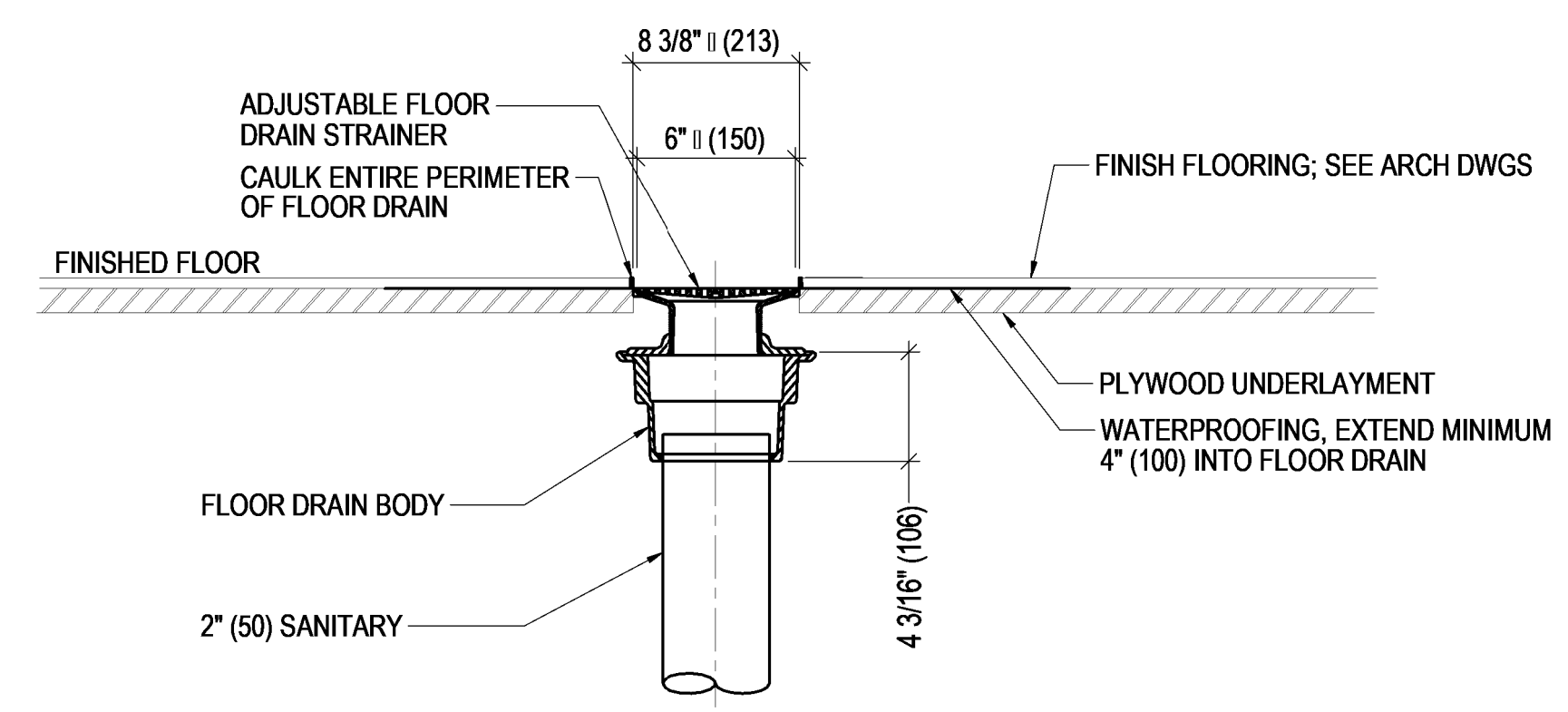
- NOTES:**
1. INSTALL PER EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
 2. POINT OF CONNECTION TO PACKAGED REVERSE OSMOSIS STORAGE TANK AND RE-PRESSURIZATION SYSTEM.
 3. REFER TO KITCHEN DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION PERTAINING TO REVERSE OSMOSIS FILTRATION SYSTEM.
 4. SECURE PIPING AND APPURTENANCES INCLUDING RO FILTER FROM WALL.
 5. FLOODSAFE WATER DETECTOR SHUTOFF WATTS LFWDS-SP-L OR APPROVED EQUAL. SYSTEM SHUTS OFF WATER SUPPLY TO RO FILTRATION SYSTEM.
 6. REVERSE OSMOSIS DISTRIBUTION PIPING AND FITTINGS SHALL BE STAINLESS STEEL.
 7. 30 INCH BY 2 1/2" DEEP (750 BY 65) EMERGENCY DRAIN PAN WITH 1" (25) EMERGENCY DRAIN SHALL BE HOLDRITE QUICK PAN SERIES OR APPROVED EQUAL.
 8. SET OUTLET TEMPERATURE TO 77 DEGREES FAHRENHEIT, 25 DEGREES CELCIUS.



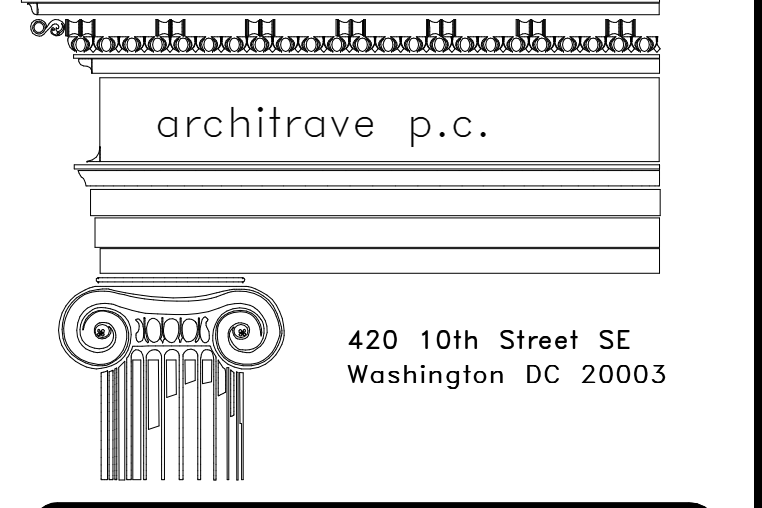
DETAIL 2
REVERSE OSMOSIS FILTRATION SYSTEM - PIPING INSTALLATION
 NOT TO SCALE



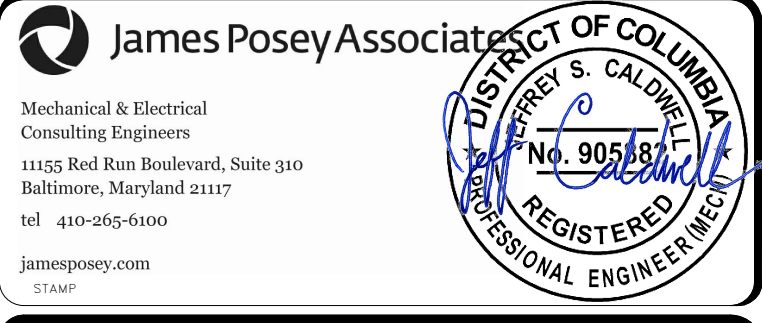
DETAIL 3
FLOOR SINK INSTALLATION AT COAT ROOM 0015
 NOT TO SCALE



DETAIL 4
FLOOR DRAIN INSTALLATION AT COAT ROOM 0015
 NOT TO SCALE



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KEY PLAN

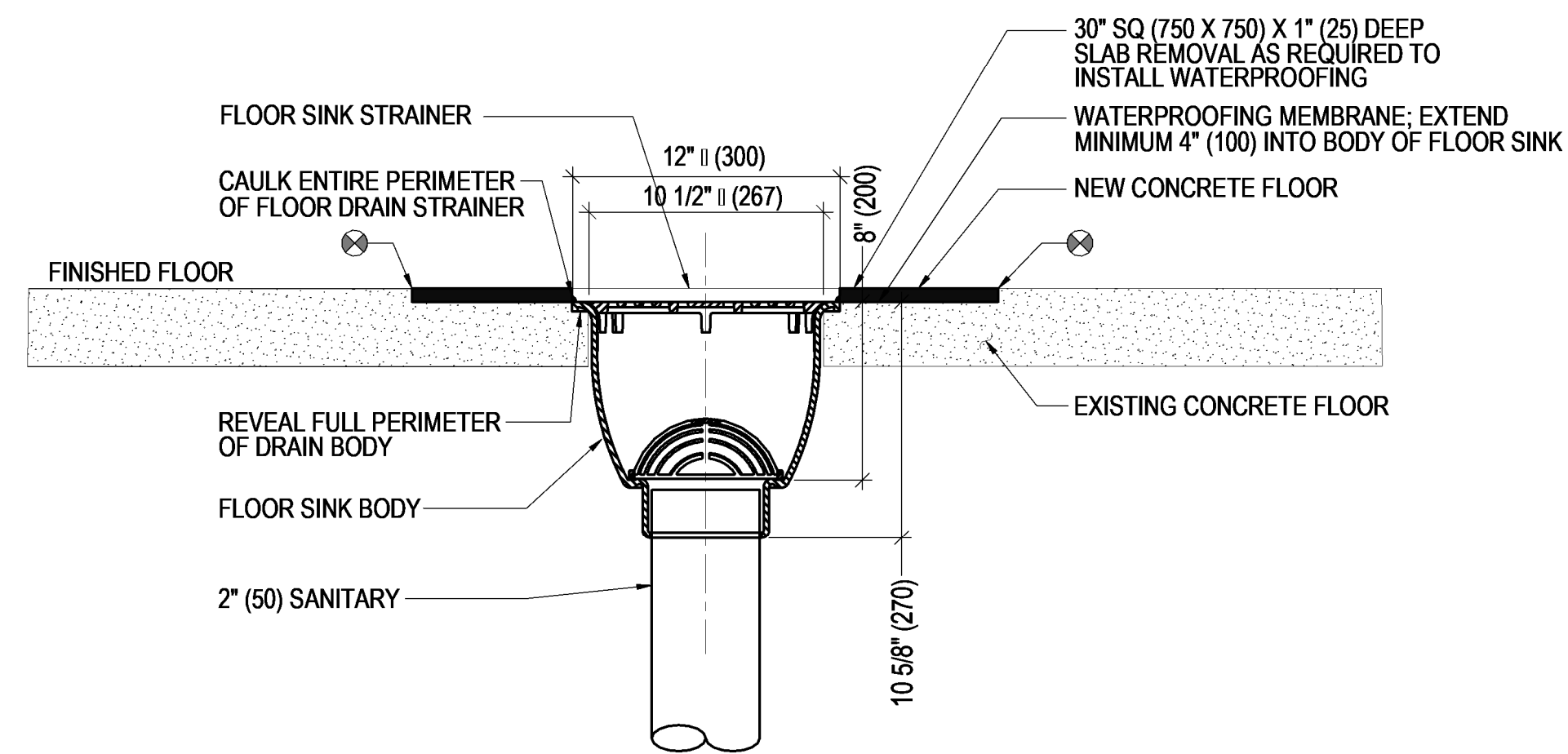
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ISSUE #		ISSUE DESCRIPTION	

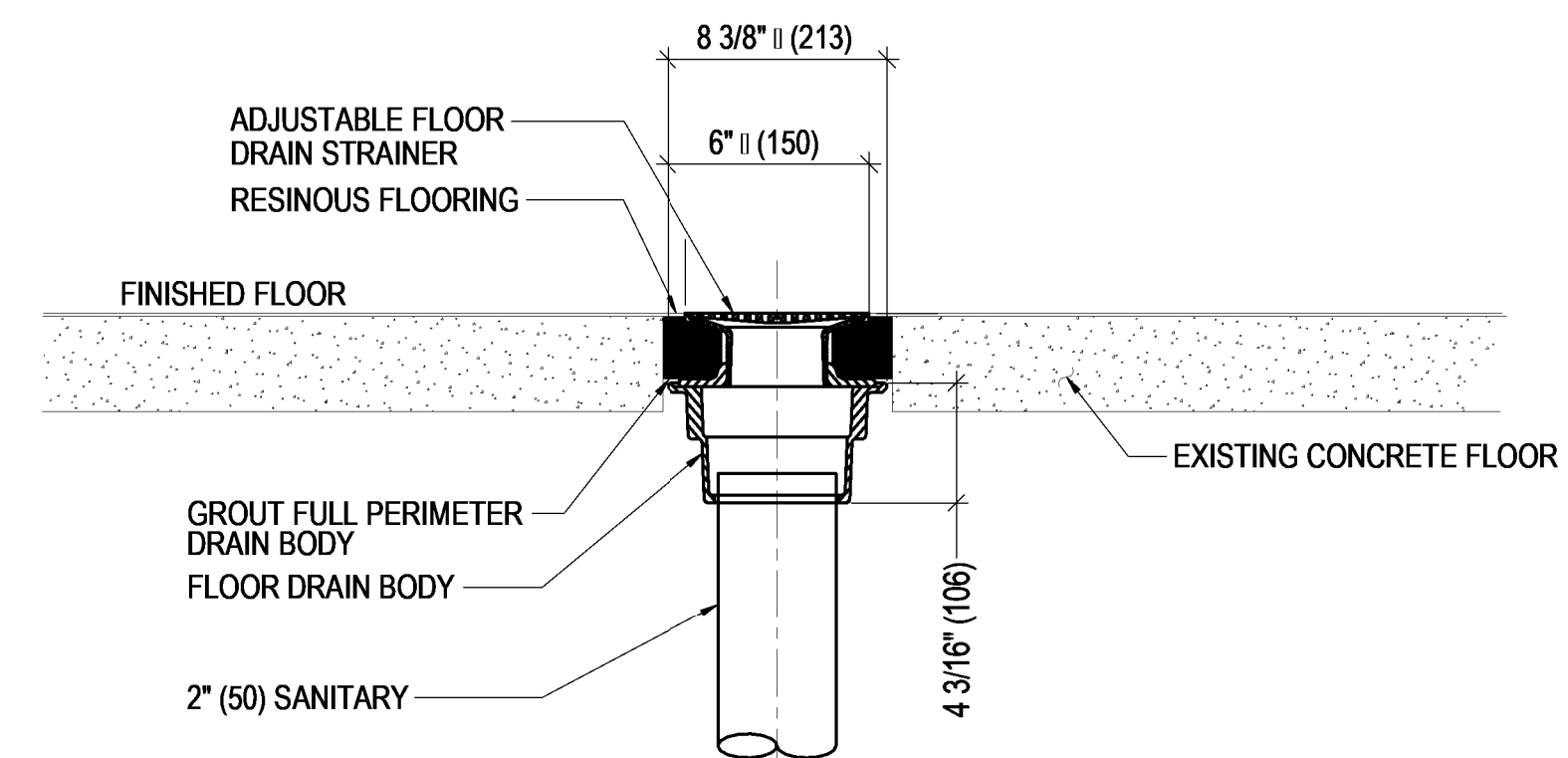


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SF PROJECT NUMBER	2209110	
A/E PROJECT NUMBER	1401.54	
DRAWING TITLE	PLUMBING DETAILS	
WORKING STAFF	TGS DKR JSC	
DESIGNED BY	DRAWN BY	CHECKED BY

SHEET NO. **P-503**
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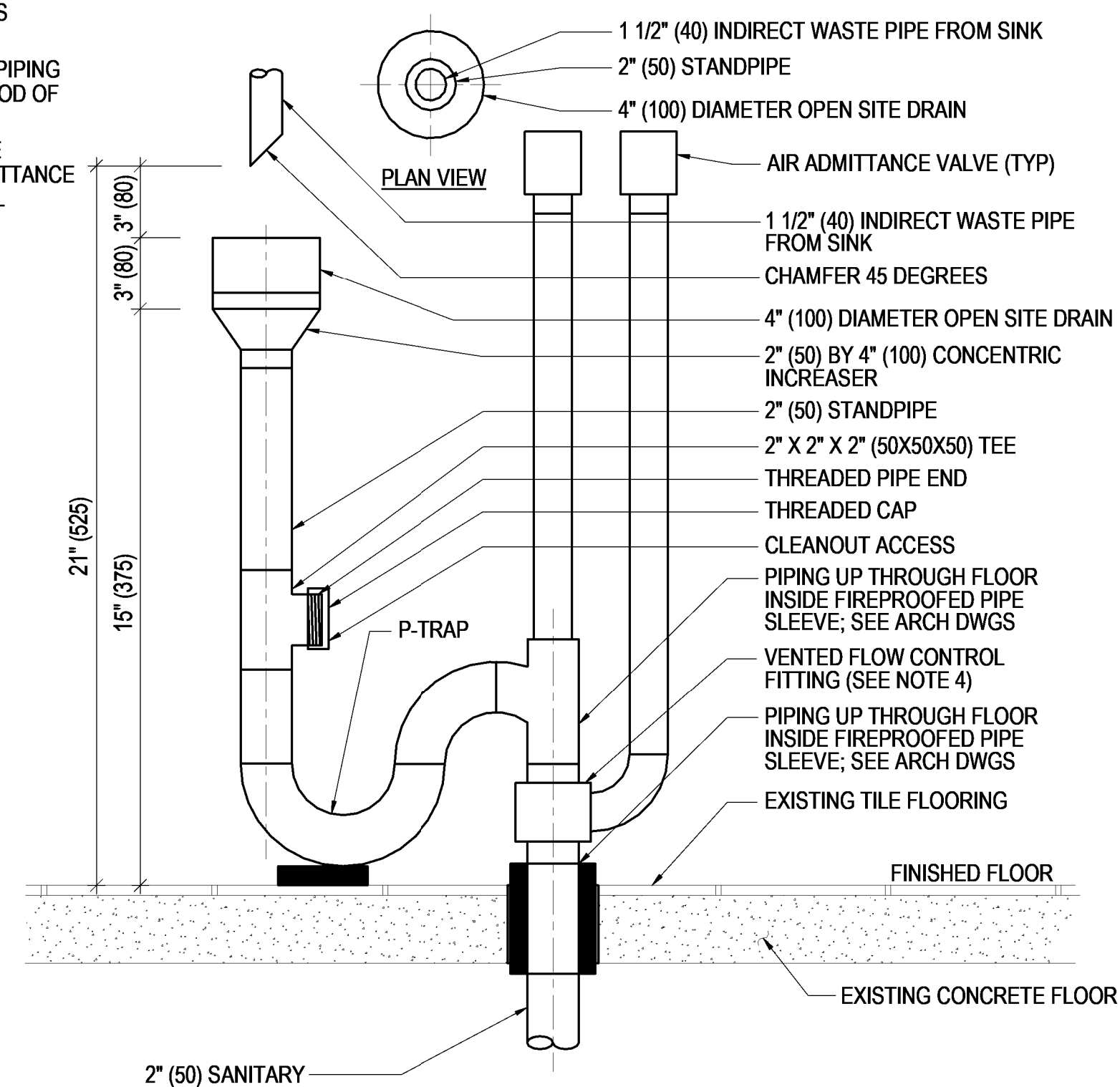


DETAIL 1
FLOOR SINK INSTALLATION AT MEZZANINE MECHANICAL ROOM
 NOT TO SCALE

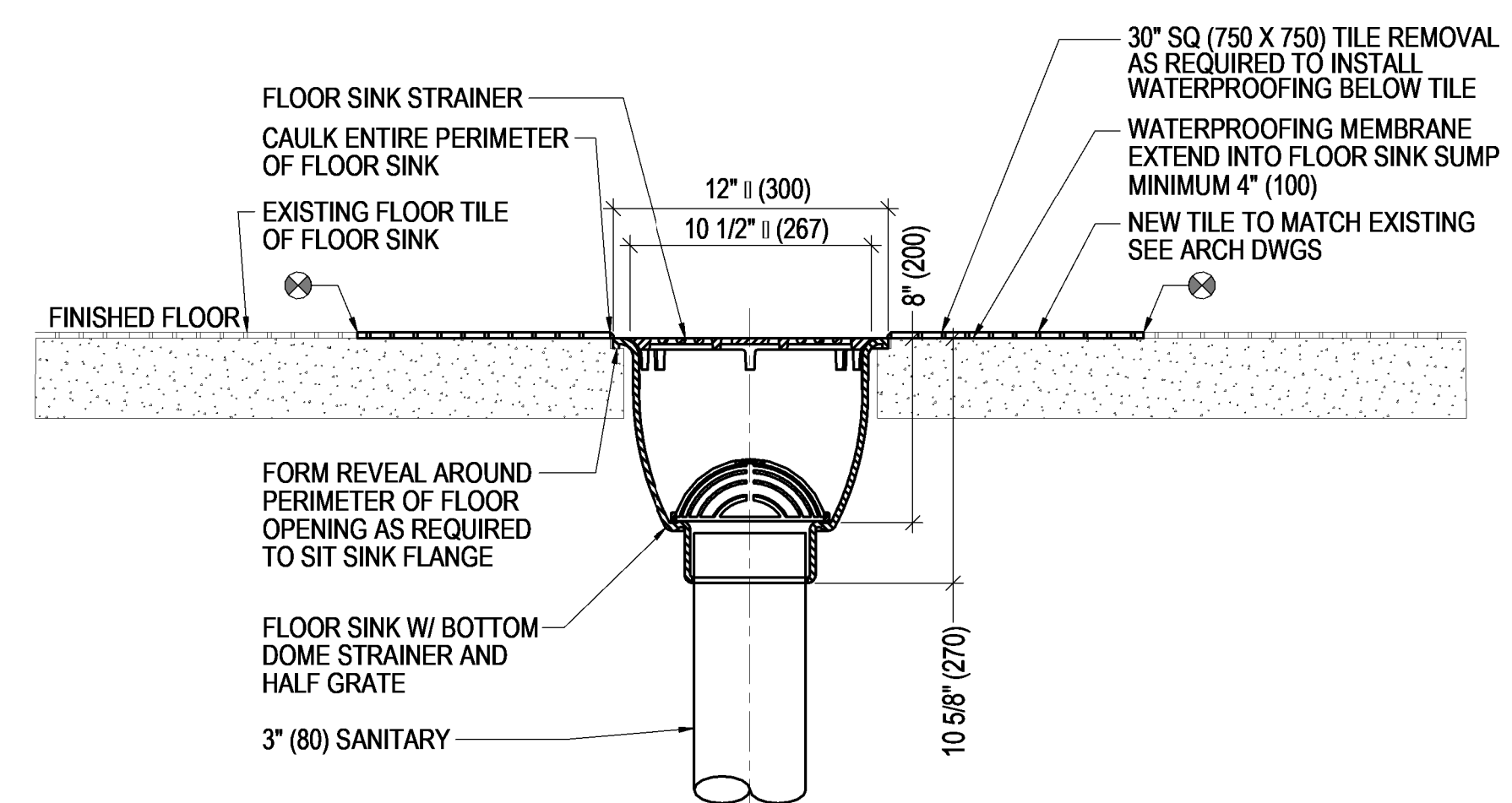


DETAIL 2
FLOOR DRAIN INSTALLATION AT FOG INTERCEPTOR ROOM
 NOT TO SCALE

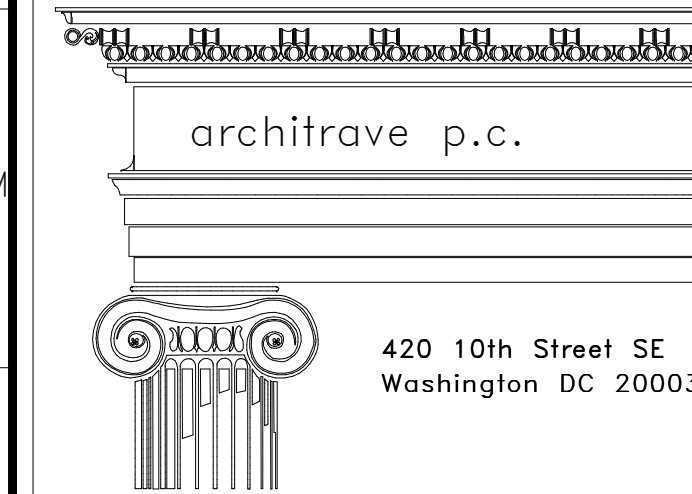
- NOTES:**
1. PIPING SHALL BE COPPER DWV WITH SOLDERED JOINTS.
 2. INDIRECT WASTE PIPING FROM SINKS SHALL BE CENTERED DIRECTLY ON CENTERLINE OF OPEN SITE DRAIN AS REQUIRED TO REDUCE SPLASHING.
 3. TRAP SHALL SIT ON FLOOR ON RUBBER PAD, AND PIPING SECURED TO INSIDE OF CABINET. CONFIRM METHOD OF SECUREMENT IN FABRICATION DRAWINGS.
 4. PROVIDE VENTED FLOW CONTROL FITTING WHERE INDICATED ON RISER DIAGRAM. INSTALL AIR ADMITTANCE VALVE ON PIPE ASSOCIATED WITH FLOW CONTROL IN LIEU OF ALTERNATE LOCATION SHOWN.



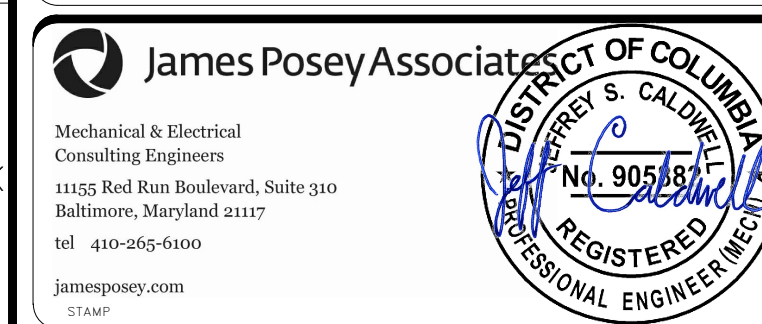
DETAIL 3
OPEN SITE DRAIN PIPING INSTALLATION
 NOT TO SCALE



DETAIL 4
FLOOR SINK INSTALLATION AT KITCHEN 2020
 NOT TO SCALE



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GRAPHIC SCALE(S)

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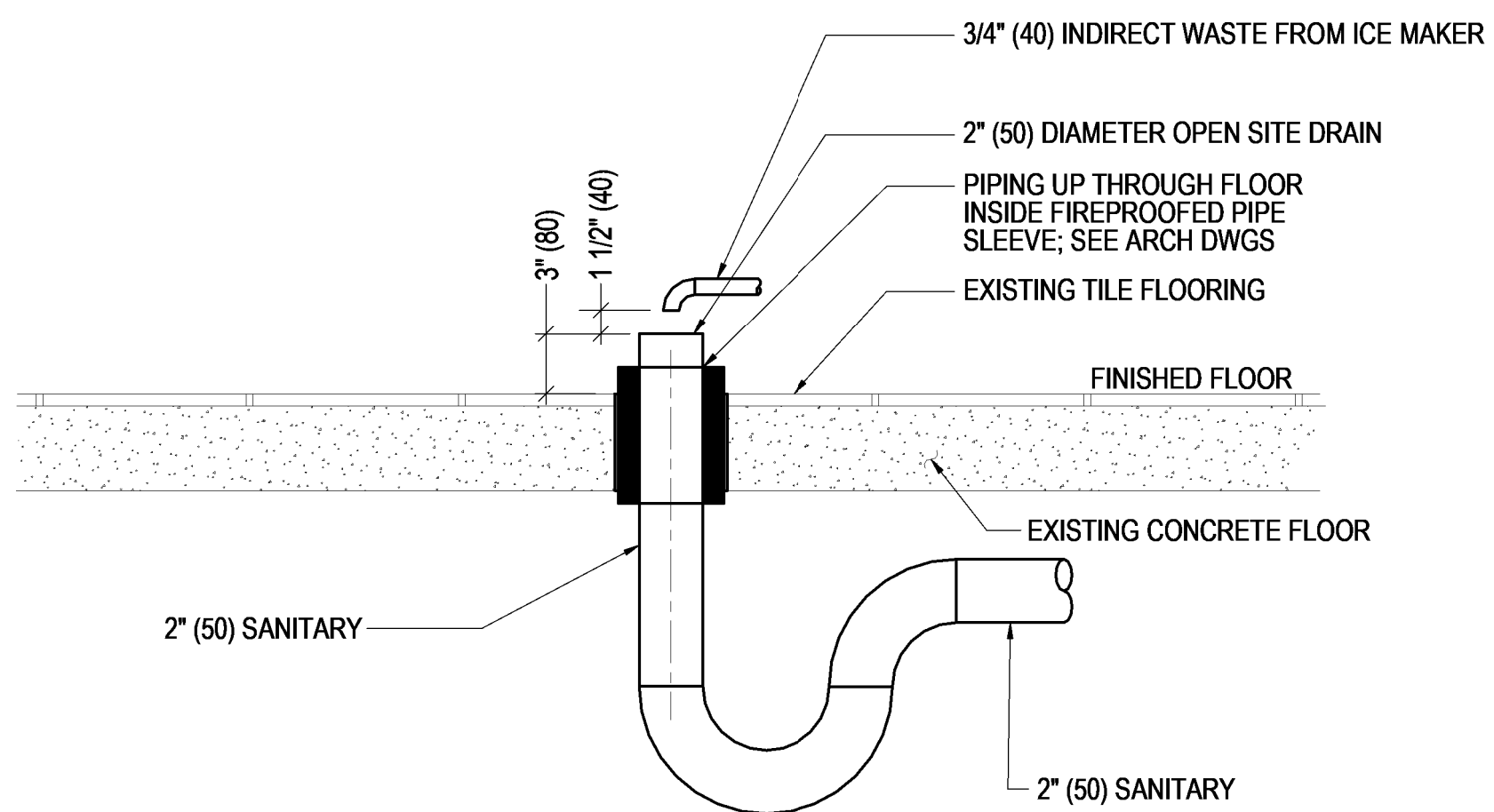
Smithsonian Facilities
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	NMAA	
ADDRESS	12th and Independence Avenue, SW, Washington DC	
PROJECT TITLE	CAFE AT SACKLER PAVILION	
SF PROJECT NUMBER	2209110	
A/E PROJECT NUMBER	1401.54	
DRAWING TITLE	PLUMBING DETAILS	
WORKING STAFF	TGS DKR JSC	
DESIGNED BY	DRAWN BY	CHECKED BY

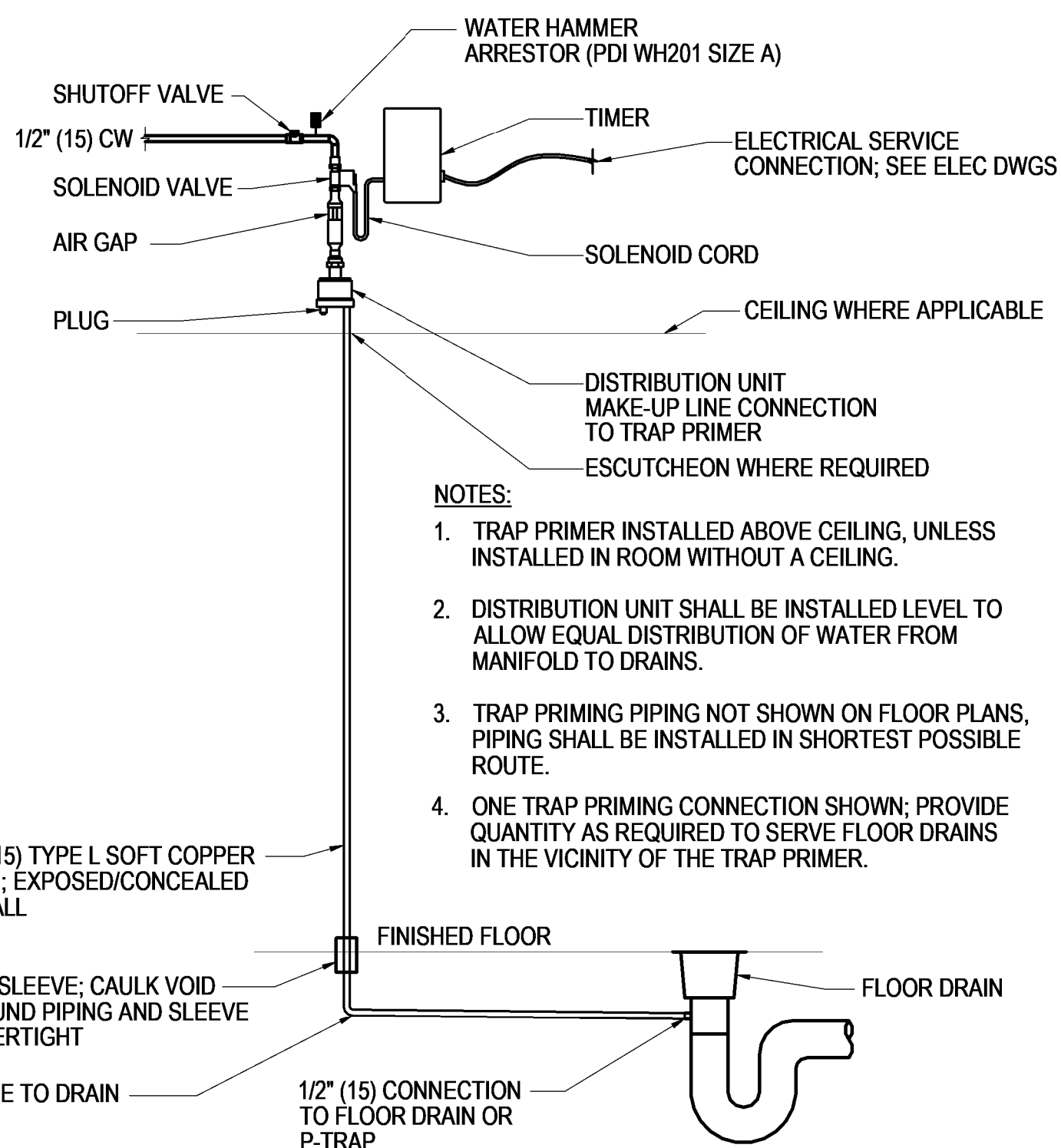
SHEET NO. P-504
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NOTES:

1. PIPING SHALL BE COPPER DWV WITH SOLDERED JOINTS.
2. INDIRECT WASTE PIPING FROM EQUIPMENT SHALL BE CENTERED DIRECTLY ON CENTERLINE OF OPEN SITE DRAIN AS REQUIRED TO REDUCE SPLASHING.
3. WASTE PIPING BELOW FLOOR SHALL BE INSULATED.



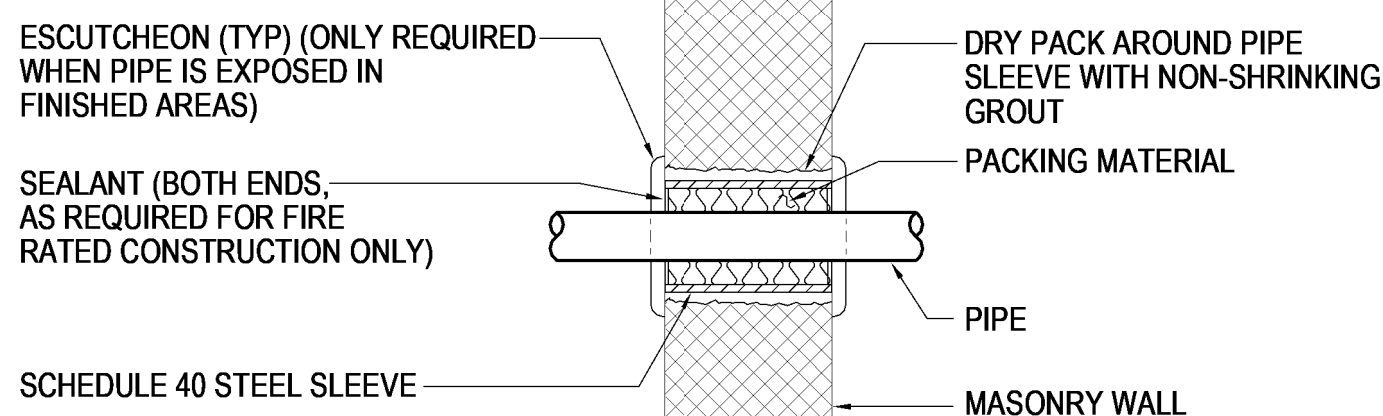
DETAIL 1
P-505
OPEN SITE DRAIN PIPING INSTALLATION
NOT TO SCALE



NOTES:

1. TRAP PRIMER INSTALLED ABOVE CEILING, UNLESS INSTALLED IN ROOM WITHOUT A CEILING.
2. DISTRIBUTION UNIT SHALL BE INSTALLED LEVEL TO ALLOW EQUAL DISTRIBUTION OF WATER FROM MANIFOLD TO DRAINS.
3. TRAP PRIMING PIPING NOT SHOWN ON FLOOR PLANS, PIPING SHALL BE INSTALLED IN SHORTEST POSSIBLE ROUTE.
4. ONE TRAP PRIMING CONNECTION SHOWN; PROVIDE QUANTITY AS REQUIRED TO SERVE FLOOR DRAINS IN THE VICINITY OF THE TRAP PRIMER.

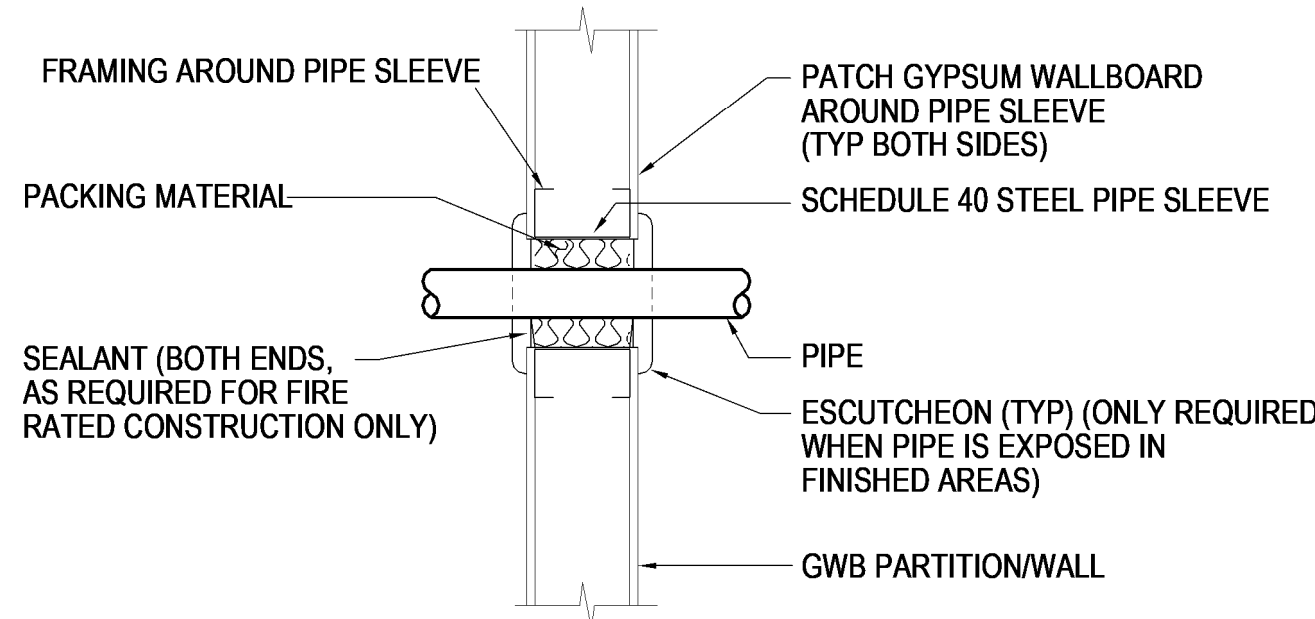
DETAIL 2
P-505
AUTOMATIC TRAP PRIMING SYSTEM INSTALLATION
NOT TO SCALE



NOTES:

- THIS DETAIL APPLIES TO BOTH INSULATED AND NON-INSULATED PIPE.
- FOR FIRE RATED CONSTRUCTION PROVIDE APPROPRIATE APPROVED THROUGH-PENETRATION FIRESTOP ASSEMBLY TO MAINTAIN THE FIRE RATING OF THE WALL ASSEMBLY.

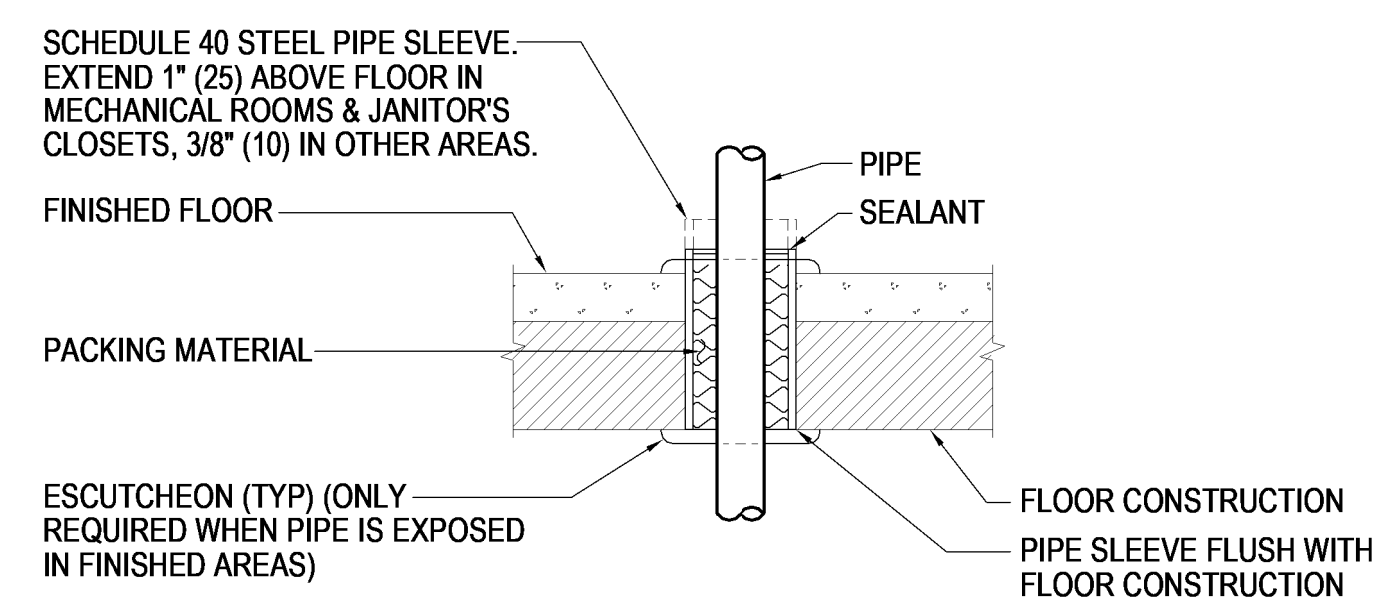
DETAIL 3
P-505
PIPE THROUGH INTERIOR MASONRY WALL
NOT TO SCALE



NOTES:

- THIS DETAIL APPLIES TO BOTH INSULATED AND NON-INSULATED PIPE.
- FOR FIRE RATED CONSTRUCTION PROVIDE APPROPRIATE APPROVED THROUGH-PENETRATION FIRESTOP ASSEMBLY TO MAINTAIN THE FIRE RATING OF THE WALL ASSEMBLY.

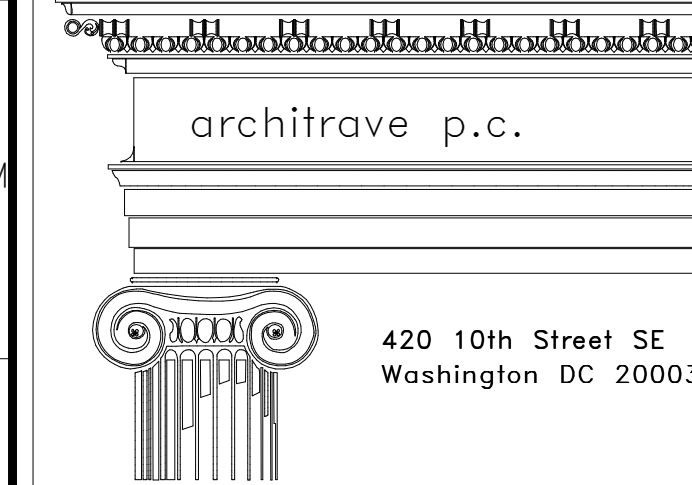
DETAIL 4
P-505
**PIPE THROUGH INTERIOR METAL/WOOD STUD
GWB PARTITION OR WALL**
NOT TO SCALE



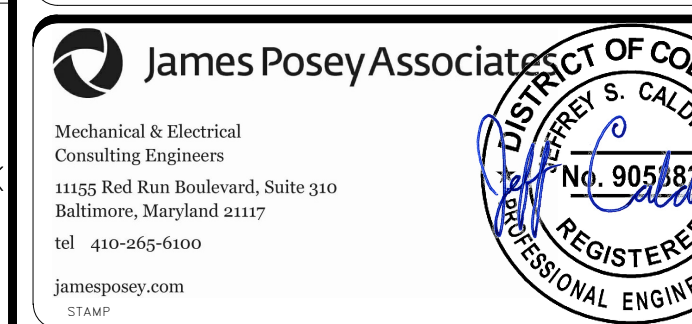
NOTES:

- THIS DETAIL APPLIES TO BOTH INSULATED AND NON-INSULATED PIPE.
- FOR FIRE RATED CONSTRUCTION, PROVIDE APPROPRIATE APPROVED THROUGH-PENETRATION FIRESTOP ASSEMBLY TO MAINTAIN THE FIRE RATING OF THE FLOOR ASSEMBLY.

DETAIL 5
P-505
PIPE THROUGH FLOOR
NOT TO SCALE



FOR CONSTRUCTION



KEY PLAN

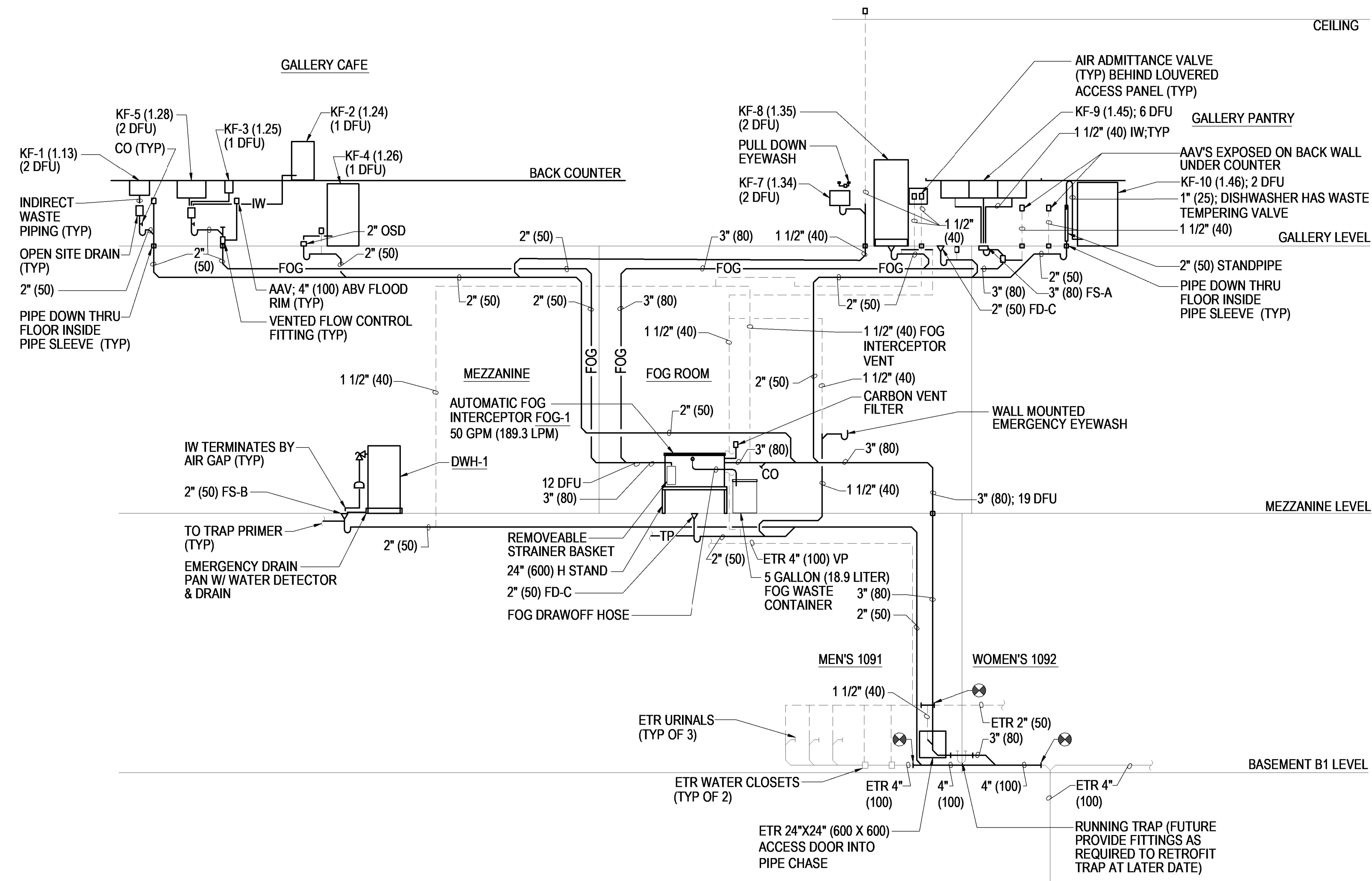
GRAPHIC SCALE(S)

DATE	07/18/24	Revision	Final Construction Documents
Revision #	DATE	Revision Description	



BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	PLUMBING DETAILS
WORKING STAFF	TGS DKR JSC
SHEET NO.	P-505
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 P-506 BY Approver 07/18/24 Final Construction Documents



SANITARY AND VENT RISER DIAGRAM
 NOT TO SCALE

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 420 10th Street SE
 Washington DC 20003

FOR CONSTRUCTION

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 1155 Red Run Boulevard, Suite 310
 Baltimore, Maryland 21117
 tel 410-251-0100
 jamesposey.com
 03400

KEY PLAN

GRAPHIC SCALE(S)

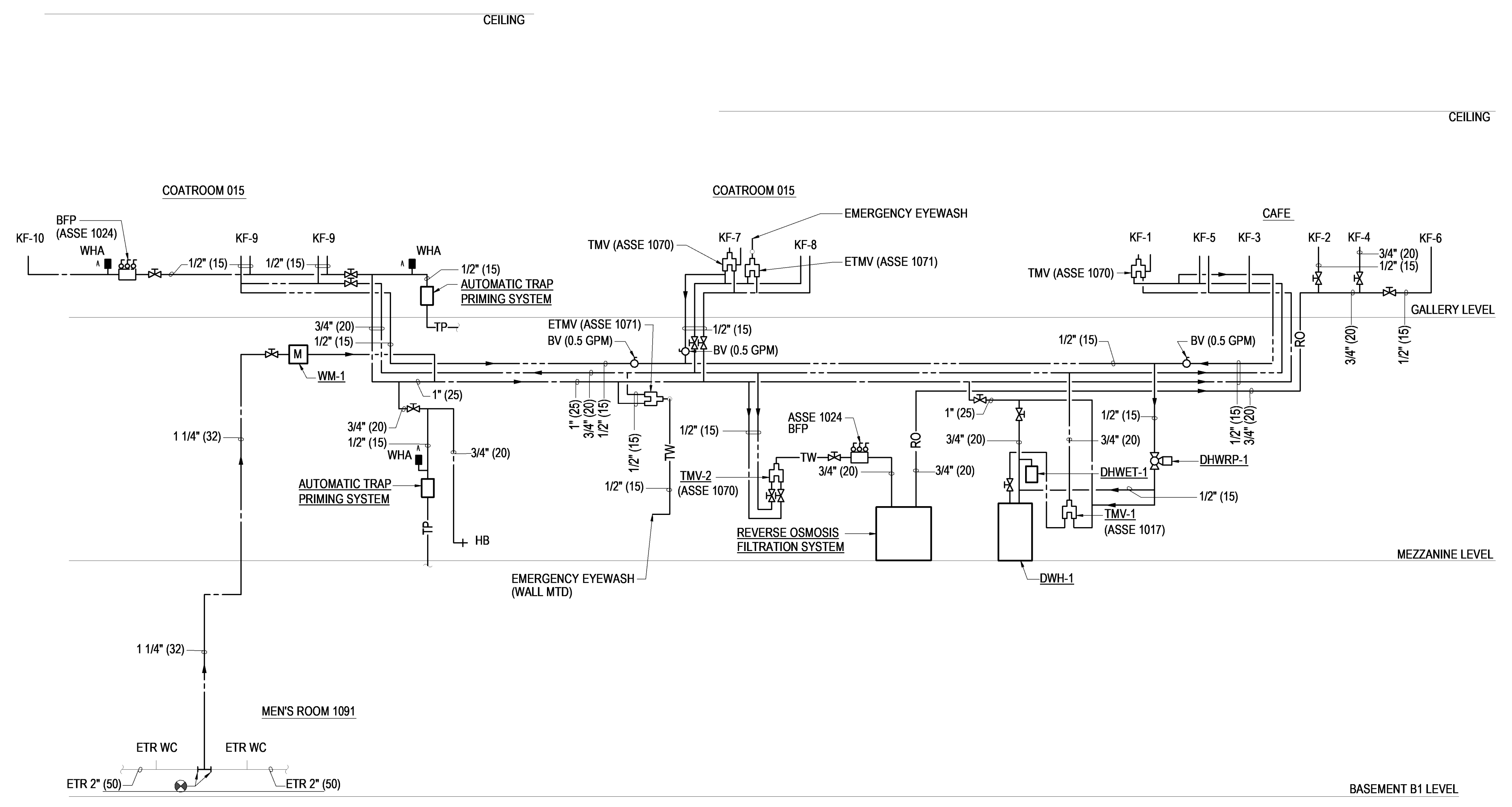
DATE	07/18/24	REVISION	Final Construction Documents
REVISION #		REVISION DESCRIPTION	

Smithsonian Institution
 Smithsonian Facilities
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

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PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	PLUMBING DIAGRAMS
WORKING STAFF	TGS DKR JSC
DESIGNED BY	TGS
DRAWN BY	DKR
CHECKED BY	JSC

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DOMESTIC WATER RISER DIAGRAM
 NOT TO SCALE

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 REGISTERED PROFESSIONAL ENGINEER

KEY PLAN

GRAPHIC SCALE(S)

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REVISION DESCRIPTION			

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DRAWING TITLE	PLUMBING DIAGRAMS
WORKING STAFF	TGS DKR JSC
DESIGNED BY	DRAWN BY
CHECKED BY	

SHEET NO. P-508
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ELECTRIC WATER HEATER SCHEDULE

DESIGNATION	AREA SERVED	LOCATION	TYPE	STORAGE CAPACITY GAL (LITER)	RECOVERY AT 37.8°C TEMP RISE GPH (LPH)	NO. OF ELEMENTS AND KW RATINGS	ELECTRICAL		BASIS OF DESIGN	NOTES
							VOLTS/PHASE	AMPS		
DWH-1	GALLERY LEVEL CAFÉ	MEZZANINE	STORAGE	30 (113.6)	32 (123)	2 AT 4 KW	208Y1	38.5	A.O. SMITH DEL-30-8	1,2,3

NOTES:
 1. RECOVERY RATE SHOWN FOR SIMULTANEOUS OPERATION OF HEATING ELEMENTS.
 2. RECOMMENDED STORAGE TEMPERATURE 60 C (140 DEG F) AND DELIVERY TEMPERATURE IS 43.33 C (110 DEG F), SET WATER HEATER T-STAT PER SI REQUIREMENTS.
 3. HOT WATER DISTRIBUTION FROM WATER HEATER IS PROTECTED BY A MASTER THERMOSTATIC MIXING VALVE (ASSE 1017).

THERMOSTATIC MIXING VALVE SCHEDULE

DESIGNATION	LOCATION	SERVICE	TYPE	HW INLET IN (MM)	CW INLET IN (MM)	TEMPERED WATER OUTLET IN (MM)	MIN FLOW GPM (LPM)	PEAK FLOW GPM (LPM)	PRESSURE DROP AT MAX FLOW PSI (KPA)	HW INLET °F (°C)	TEMPERED OUTLET °F (°C)	BASIS OF DESIGN	NOTES
TMV-2	MEZZANINE	REVERSE OSMOSIS WATER FILTRATION SYSTEM	ASSE 1070	1/2 (15)	1/2 (15)	1/2 (15)	0.5 (1.89)	2.5 (9.5)	10 (69)	120 (48.9)	77 (25)	LAWLER MODEL 310-SC1	1

NOTES:
 1. PROVIDE WITH THREADED INLET.
 2. HOT WATER SUPPLY TEMPERATURE TO FIXTURES NOTED IN SCHEDULE IS RECOMMENDED, THERMOSTATIC MIXING VALVE ADJUSTED TO TEMPERATURE PER SI REQUIREMENTS.

FATS/OILS/GREASE INTERCEPTOR

DESIGNATION	AREA SERVED	LOCATION	TYPE	FLOW RATING GPM (L/S)	NUMBER OF SKIMMING WHEELS	SKIMMING RATE LBS/HR (KG/HR)	FOG RETENTION CAPACITY LBS (KG)	INTERNAL SOLIDS STRAINER CAPACITY GAL (LITER)	INLET/OUTLET CONNECTIONS INCHES (MM)	EXTERNAL FOG COLLECTOR CAPACITY GAL (LITER)	PHYSICAL ATTRIBUTES L X W X H INCHES (MM)	NON-OPERATIONAL WEIGHT LBS (KG)	ELECTRICAL		BASIS OF DESIGN	NOTES
													VOLTS/PHASE	AMPS		
FOG-1	GALLERY CAFÉ	MEZZANINE	AUTOMATIC GREASE RECOVERY UNIT	50 (3.15)	1	9 (4.1)	108.4 (49.2)	2.5 (9.5)	3 (80)	5 (18.9)	34.15 X 17.85 X 21.86 (867.4 X 453.4 X 553.3)	70 (31.8)	115/1	10.2	THERMACO W-500-IS	1,2,3,4,5,6,7,8
FOG-2	KITCHEN 2020	MECH RM 3010	AUTOMATIC GREASE RECOVERY UNIT	50 (3.15)	1	9 (4.1)	108.4 (49.2)	2.5 (9.5)	3 (80)	5 (18.9)	34.15 X 17.85 X 21.86 (867.4 X 453.4 X 553.3)	70 (31.8)	115/1	10.2	THERMACO W-500-IS	1,2,3,4,5,6,7,8

NOTES:
 1. FULLY AUTOMATIC WITH SELF CLEANING CYCLE.
 2. DIGITAL CONTROL USER INTERFACE.
 3. CONSTRUCTED OF CORROSION RESISTANT MATERIALS, STAINLESS STEEL EXTERIOR WITH LATCHABLE ACCESS LID, INTERIOR ROTATIONALLY MOLDED POLYETHYLENE.
 4. INTERNAL ELECTRIC HEATING ELEMENT.
 5. NO HUB INLET/OUTLET.
 6. 8 FOOT (2.4 M) THREE PRONG ELECTRICAL GROUNDING POWER CORD.
 7. INTEGRAL EXTERNAL 7.4 QUART (7L) CAPACITY FOG COLLECTOR SHALL BE REMOVED FROM INTERCEPTOR FOG OUTLET IN FIELD AND FLEXIBLE HOSE AND CLAMP INSTALLED ON FOG OUTLET AND TERMINATED IN 5 GAL (18.9 L) BUCKET.
 8. INSTALLED ON 24" (600) HIGH STAND.

WATER SUBMETER SCHEDULE

DESIG	LOCATION	INSTALLED ON	TYPE	INLET/OUTLET SIZE IN (MM)	CONN TYPE	PEAK DESIGN FLOW GPM (L/S)	NORMAL OPERATING RANGE GPM (L/S)	LOW FLOW GPM (L/S)	PRESSURE DROP AT PEAK FLOW PSI (KPA)	ACCURRACY AT LOW FLOW (%)	DESIGN OPERATING TEMP RANGE F (C)	MAX OPERATING TEMP F (C)	MAX OPERATING PRESS PSI (KPA)	LAY LENGTH IN (MM)	BASIS OF DESIGN	NOTES
WM-1	MEZZANINE	DOMESTIC COLD WATER	POSITIVE DISPLACEMENT	5/8 X 3/4 (16 X 200)	MALE NPT	20 (1.26)	0.5-25 (0.032-1.58)	0.25 (0.016)	6 (41.37)	98.5	35-80 (1.67-26.67)	80	150 (1034.21)	7.5 (191)	BADGERMETER RECORDALL MODEL M25	1
WM-2	KITCHEN 2020	DOMESTIC COLD WATER	POSITIVE DISPLACEMENT	5/8 X 3/4 (16 X 200)	MALE NPT	10 (0.63)	0.5-25 (0.032-1.58)	0.25 (0.016)	2.5 (17.23)	98.5	35-80 (1.67-26.67)	80	150 (1034.21)	7.5 (191)	BADGERMETER RECORDALL MODEL M25	1
WM-3	KITCHEN 2020	DOMESTIC HOT WATER	POSITIVE DISPLACEMENT	5/8 X 3/4 (16 X 200)	MALE NPT	10 (0.63)	0.5-25 (0.032-1.58)	0.25 (0.016)	2.5 (17.23)	98.5	35-120 (1.67-39)	120	150 (1034.21)	7.5 (191)	BADGERMETER RECORDALL MODEL M25	1

NOTES:
 1. METER SHALL BE ANS/INSE 61 LEAD FREE.
 2. METERS CHAMBER AND DISC MATERIAL SHALL BE COMPATIBLE FOR USE WITH DOMESTIC WATER AT TEMPERATURE NOTED.

DOMESTIC WATER EXPANSION TANKS

DESIGNATION	SERVICE	LOCATION	MINIMUM ACCEPTANCE VOLUME GAL (LITER)	TOTAL TANK VOLUME GAL (LITER)	ACCEPTANCE FACTOR	SYSTEM VOLUME GAL (LITER)	SYSTEM PRESSURE PSI (KPA)	MAXIMUM ALLOWABLE SYSTEM WORKING PRESSURE PSI (KPA)	SYSTEM TEMPERATURE DELTA DEG F (C)	TANK DIMENSIONS DIA X HEIGHT IN X IN (MM X MM)	MAXIMUM TANK WORKING PRESSURE PSIG (KPA)	FACTORY PRECHARGE PSIG (KPA)	MAXIMUM TANK OPERATING TEMPERATURE F (C)	BASIS OF DESIGN	NOTES
DWET-1	DWH-1	MEZZANINE	0.9 (3.6)	2 (8)	0.45	40 (152)	55 (379.2)	100 (689)	100 (37.8)	8 X 12.5 (200 X 320)	150 (1034)	40 (276)	200 (93.3)	AMTROL ST-5	1,2

NOTES:
 1. NSF/ANSI 61/NSF 372 HEAVY DUTY BUTYL DIAGHRAGM.
 2. ADJUST TANK PRESSURE TO SYSTEM OPERATING PRESSURE IN FIELD.

DRAIN SCHEDULE

DESIGNATION	TYPE	SERVICE	BODY IN (MM)	STRAINER IN (MM)	BASIS OF DESIGN	NOTES
FS-A	FLOOR SINK	KITCHEN	12" (305) DIAMETER X 8" (203) DEEP	10.5" (267) DIAMETER	ZURN Z1950	1,2,3,4
FS-B	FLOOR SINK	KITCHEN/MECHANICAL	8" (200) X 8" (200) X 6" (150) DEEP	7.25" (185) SQUARE	ZURN Z1910	1,2,3,4
FD-C	FLOOR DRAIN	AREA	8.375" (213) DIAMETER X 7.5" (191) DEEP	5.5" (138) DIAMETER	ZURN Z415B	2,5

NOTES:
 1. FLOOR SINKS TAKE INDIRECT WASTE FROM DOMESTIC PLUMBING FIXTURES ONLY.
 2. CONFIRM TYPE OF CONNECTION WITH SI-COTR.
 3. SEDIMENT BUCKET.
 4. HALF GRATE.
 5. DRAIN SERVED BY AUTOMATIC TRAP PRIMING SYSTEM.

KITCHEN FIXTURE ROUGH-IN SCHEDULE

DESIGNATION	KITCHEN DWG REFERENCE	FIXTURE DESCRIPTION	MOUNTING	ROUGH-IN CONNECTIONS INCHES (MM)					NOTES
				CW	HW	VP	DW SAN	IW SAN	
KF-1	1.13	HAND SINK	COUNTER	1/2 (15)	1/2 (15)	-	-	1 1/2 (40)	1,2,3,10,11
KF-2	1.24	ESPRESSO MACHINE	COUNTER	1/2 (15)	-	-	-	2 (50)	1,2,6
KF-3	1.25	COUNTERTOP RINSER	COUNTER	1/2 (15)	-	-	-	1/2 (15)	1,2,6
KF-4	1.26	ICE MAKER	FLOOR	3/4 (20)	-	-	-	3/4 (20)	1,2
KF-5	1.28	WORK SINK	COUNTER	1/2 (15)	1/2 (15)	-	-	1 1/2 (40)	1,2,6,10,11
KF-6	1.29	HOT WATER DISPENSER	COUNTER	1/2 (15)	-	-	-	-	1,2
KF-7	1.34	HAND SINK (ADA)	WALL	1/2 (15)	1/2 (15)	1 1/2 (40)	1 1/2 (40)	-	1,2,3,10,11
KF-8	1.35/1.36	MOP SINK	FLOOR	1/2 (15)	1/2 (15)	1 1/2 (40)	2 (50)	-	1,2,4,6
KF-9	1.45/1.47/1.48	THREE COMPARTMENT SINK	FLOOR	1/2 (15)	1/2 (15)	-	-	1 1/2 (40)	1,2,5,6
KF-10	1.46	DISHWASHER, UNDERCOUNTER	FLOOR	3/4 (20)	-	-	-	3/4 (20)	1,2
KF-11	2.08/2.08A	TWO COMPARTMENT SINK	FLOOR	1/2 (15)	1/2 (15)	-	-	1 1/2 (40)	1,2,5
KF-12		ETR THREE COMPARTMENT SINK	FLOOR	-	-	-	-	1 1/2 (40)	5,7,8,9

NOTES:
 1. REFER TO KITCHEN DRAWING QF-103 FOR ADDITIONAL INFORMATION.
 2. SIZES INDICATED FOR WATER SUPPLIES ARE ROUGH-IN REQUIREMENTS, AND MAY NOT BE THE SAME SIZE OF THE FIXTURE INLET CONNECTION.
 3. HAND SINK SHALL BE SUPPLIED TEMPERED WATER THROUGH A THERMOSTATIC WATER MIXING VALVE (ASSE 1070); SET AT 100°F (38°C).
 4. FAUCET HAS NO FLOW RESTRICTOR.
 5. EACH SINK COMPARTMENT DRAINS INDEPENDENTLY TO FLOOR SINK WITH AIR GAP.
 6. WASTE FROM FIXTURE PASSES THRU FATS/OILS/GREASE INTERCEPTOR.
 7. PROVIDE SINK WITH NEW INDIRECT WASTE PIPING.
 8. SINKS FAUCETS ARE EXISTING TO REMAIN.
 9. SINKS FOOD WASTE DISPOSER IS EXISTING TO REMAIN.
 10. PROVIDE ANGLE SUPPLY STOPS CHICAGO MODEL STB-21-11-AB OR APPROVED EQUAL.
 11. PROVIDE FLEXIBLE STAINLESS STEEL BRAIDED HOSE, LENGTH AS REQUIRED TO CONNECT SUPPLY STOPS TO ACCESSORIES AND FAUCET INLETS.

DOMESTIC HOT WATER RECIRCULATING PUMPS

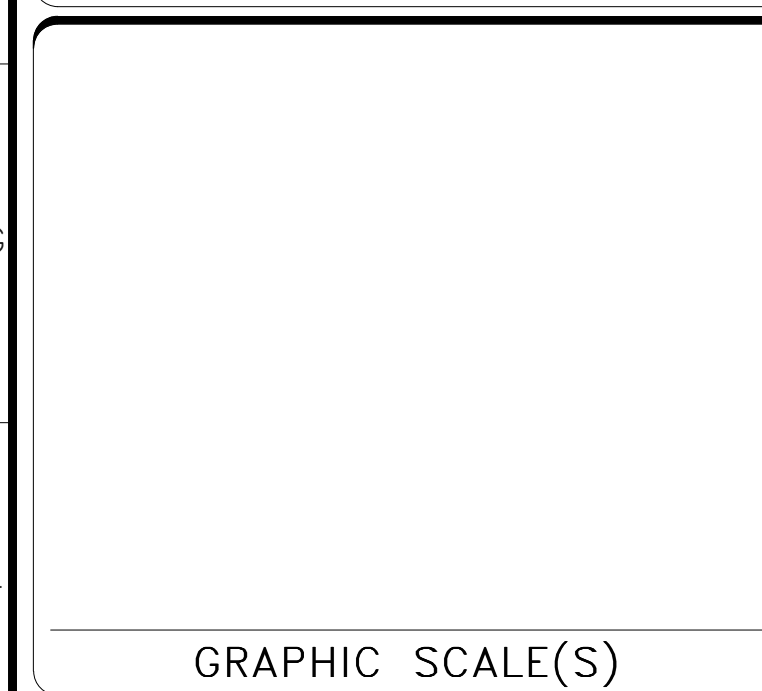
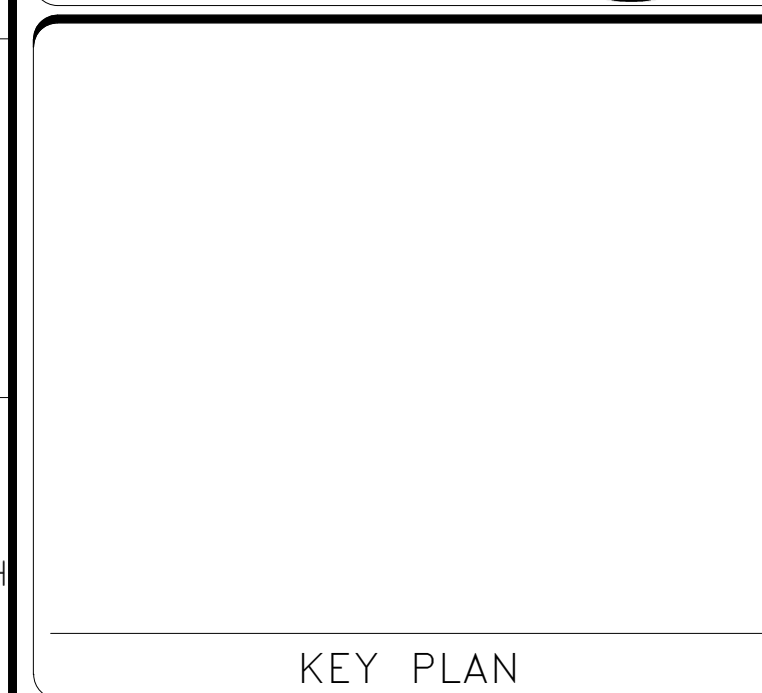
DESIG	SERVICE	SYSTEM	LOCATION	FLOW RATE GPM (L/S)	TOTAL HEAD FT (M)	SUCTION/DISCHARGE SIZE IN (MM)	MOTOR		VOLTS/PHASE	MANUFACTURER AND MODEL NUMBER	NOTES
							HP	RPM			
DHWCP-1	DWH-1	110	MEZZANINE	1.5 (0.095)	12 (3.66)	0.75 (20)	1/25	3250	110/1	TACO 008	1,2

NOTES:
 1. POWER FOR PUMP SERVED FROM LOCKABLE SWITCH MOUNTED ON WALL ADJACENT TO PUMP.
 2. PUMP FURNISHED WITH DISCHARGE CHECK VALVE.



FOR CONSTRUCTION

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SHEET NO.	P-601
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ELECTRICAL SYMBOLS AND ABBREVIATIONS

DEMOLITION	
	REMOVE EXISTING SAFETY SWITCH (DISCONNECT) AND ASSOCIATED WIRING TO SOURCE
	REMOVE EXISTING TRANSFORMER AND ASSOCIATED WIRING TO SOURCE
	REMOVE EXISTING SIMPLEX RECEPTACLE AND ASSOCIATED WIRING TO SOURCE UNLESS OTHERWISE NOTED.
	REMOVE EXISTING DUPLEX RECEPTACLE AND ASSOCIATED WIRING TO SOURCE UNLESS OTHERWISE NOTED.
	REMOVE EXISTING WALL SWITCH AND ASSOCIATED WIRING TO SOURCE UNLESS OTHERWISE NOTED.
	REMOVE EXISTING LIGHT TRACK AND COMPONENTS. EXISTING WIRING ABOVE CEILING IS TO REMAIN. MAKE WIRING SAFE. PROTECT CONTINUITY TO LOADS OUTSIDE THE DEMOLITION AREA.
	REMOVE EXISTING DOWNLIGHT. PROTECT FOR REUSE. EXISTING WIRING ABOVE CEILING IS TO REMAIN. MAKE WIRING SAFE. PROTECT CONTINUITY TO LOADS OUTSIDE THE DEMOLITION AREA.
	REMOVE EXISTING MOTION DETECTOR. PROTECT WIRING ABOVE CEILING FOR REUSE. PROVIDE CONTINUITY WIRING AND PROGRAMMING AS NEEDED TO MAINTAIN REMAINING SYSTEM IN OPERATION.
	REMOVE EXISTING SURFACE- OR WALL-MOUNTED 4' FLUORESCENT LUMINAIRE. MAKE EXISTING-TO-REMAIN WIRING (IF ANY) SAFE FOR REUSE.
	REMOVE EXISTING FIRE ALARM CEILING-MOUNTED DEVICE. PROTECT FOR REUSE. EXISTING WIRING ABOVE CEILING IS TO REMAIN. MAKE WIRING SAFE. PROTECT CONTINUITY TO DEVICES OUTSIDE THE DEMOLITION AREA.

EXISTING TO REMAIN	
	EXISTING RACEWAY AND WIRING TO REMAIN.
	EXISTING TO REMAIN HOME RUN TO PANELBOARD
	EXISTING TO REMAIN WIRING EMBEDDED IN SLAB OR IN LEVEL BELOW'S CEILING SPACE
	EXISTING TO REMAIN RECEPTACLE.
	EXISTING TO REMAIN FIRE ALARM SYSTEM AUDIO SIGNAL WITH STROBE.
	EXISTING TO REMAIN FIRE ALARM STROBE.
	EXISTING TO REMAIN FIRE ALARM SPEAKER.
	EXISTING TO REMAIN FIRE ALARM SMOKE DETECTOR CEILING-MOUNTED.
	EXISTING TO REMAIN FIRE ALARM CONTROL MODULE
	EXISTING TO REMAIN TELECOMMUNICATIONS OUTLET AND CABLE
	EXISTING TO REMAIN LIGHT TRACK. NUMBER INDICATES LENGTH IN FEET.
	EXISTING TO REMAIN LIGHT TRACK ON EMERGENCY CIRCUIT.
	EXISTING TO REMAIN DOWNLIGHT
	EXISTING TO REMAIN 2' X 4' GRID-MOUNTED LUMINAIRE
	EXISTING TO REMAIN 4' WALL-MOUNTED LUMINAIRE
	EXISTING TO REMAIN 4' SURFACE-MOUNTED LUMINAIRE
	ANY OF THE ABOVE LUMINAIRES ON EMERGENCY POWER
	EXISTING TO REMAIN TOGGLE SWITCH ON WALL
	EXISTING TO REMAIN CONNECTION TO EQUIPMENT.
	EXISTING ELECTRICAL PANELBOARD 120/208-VOLT, SURFACE MOUNTED.
	EXISTING TO REMAIN SPECIAL RECEPTACLE AS INDICATED.
	EXISTING TO REMAIN FLOOR BOX. NOTE- REMOVE EXISTING COVER AND SCREWS. PROVIDE NEW BRASS COVER MATCHING ORIGINAL.
	EXISTING TO REMAIN BELL
	EXISTING TO REMAIN CLOCK RECEPTACLE
	EXISTING TO REMAIN MOTOR CONNECTION
	EXISTING TO REMAIN JUNCTION BOX, CEILING- OR WALL-MOUNTED
	EXISTING TO REMAIN TRANSFORMER
	EXISTING TO REMAIN DISCONNECT/SAFETY SWITCH
	EXISTING TO REMAIN ENCLOSED CIRCUIT BREAKER.
	EXISTING TO REMAIN COMBINATION MOTOR STARTER / DISCONNECT SWITCH

LIGHTING	
	WALL SWITCH & OCCUPANCY SENSOR WITH MANUAL ON/OFF TOGGLE BUTTON, 48" ABOVE FINISHED FLOOR.
	FURNISH NEW TRACK HEAD, TYPE AS INDICATED, FOR EXISTING LIGHT TRACK. SMITHSONIAN WILL INSTALL TRACK HEAD.
	TRACK HEAD AS ABOVE, INSTALLED IN TRACK ON EMERGENCY CIRCUIT.
	CEILING OUTLET WITH 2' X 2' LED LUMINAIRE ON EMERGENCY CIRCUIT, TYPE AS DESIGNATED.
	REINSTALL DOWNLIGHT PREVIOUSLY REMOVED. CONNECT TO EXISTING TO REMAIN WIRING AS NEEDED TO RESTORE ORIGINAL OPERATION. CLEAN LUMINAIRE.
	CEILING-MOUNTED EXIT SIGN WITH OR WITHOUT DIRECTIONAL ARROWS AS INDICATED. SHADED AREA INDICATES STENCIL FACE.
	EMERGENCY BATTERY LIGHTING UNIT, WALL-MOUNTED, 7'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED, TYPE AS INDICATED.
	CEILING OUTLET AND LED LUMINAIRE, TYPE AS DESIGNATED.
	WALL OUTLET AND LED LUMINAIRE, TYPE AS DESIGNATED.
	LUMINAIRE AS ABOVE, ON EMERGENCY CIRCUIT.

POWER	
	SPECIAL OUTLET OR CONNECTION TO EQUIPMENT AS NOTED
	DUPLEX GROUNDING TYPE CONVENIENCE RECEPTACLE EIGHTEEN INCHES ABOVE FINISHED GRADE UNLESS OTHERWISE INDICATED, GROUND-FAULT CIRCUIT INTERRUPTER TYPE.
	DUPLEX GROUNDING TYPE CONVENIENCE RECEPTACLE FORTY-EIGHT INCHES ABOVE FINISHED GRADE UNLESS OTHERWISE INDICATED, GROUND-FAULT CIRCUIT INTERRUPTER TYPE.
	DUPLEX GROUNDING TYPE CONVENIENCE RECEPTACLE, EIGHTEEN INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED, ON EMERGENCY OR STANDBY POWER CIRCUIT.
	NEMA 6-30R RECEPTACLE OUTLET FORTY INCHES ABOVE FINISHED FLOOR.
	ELECTRIC LATCH POWER CONNECTION. SEE H1/E502DT AND D3/E601DG. CONNECT TO EXISTING SECURITY POWER SUPPLY PANEL VIA CARD READER/ROOM CONTROLLER.
	ELECTRIC HINGE TO ALLOW ELECTRIC LOCK CABLE TO PASS FROM DOOR FRAME INTO DOOR.
	SURGE PROTECTIVE DEVICE

WIRING	
	WIRING. NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS LESS GROUND(S). WHERE NO HASH MARKS APPEAR, TWO CONDUCTORS PLUS GROUND(S) ARE IMPLIED.
	LOW-VOLTAGE WIRING
	WIRING EMBEDDED IN SLAB OR RUN IN CEILING SPACE OF FLOOR BELOW.
	HOMERUN TO PANELBOARD. NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS LESS GROUND(S). WHERE NO HASH MARKS APPEAR, TWO CONDUCTORS PLUS GROUND(S) ARE IMPLIED.
	WIRING UP
	WIRING DOWN
	RACEWAY STUB. PROVIDE BUSHING.
	WIRING CONTINUES
	JUNCTION BOX

NOTES	
A.	PRIOR TO ROUGH-IN, VERIFY EXACT LOCATION OF SPECIALTY WIRING DEVICES WITH EQUIPMENT SPECIFIED UNDER OTHER DIVISIONS OR SUPPLIED BY GOVERNMENT.
B.	MOUNTING HEIGHTS ARE TO THE CENTER OF DEVICES, AND TO THE UNDERSIDES OF LUMINAIRES, UNLESS OTHERWISE NOTED.

ABBREVIATIONS	
A, AMP	AMPERES
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
C	CONDUIT OR OTHER RACEWAY
C/T	CURRENT TRANSFORMER
CAT	UNSHIELDED TWISTED PAIR ETHERNET CABLE OF THE ANSITIA-565 CATEGORY INDICATED (E.G., 'CAT-5' IS CATEGORY 5 CABLE)
CONT	CONTINUATION
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE
DEMO	DEMOLITION
DIST	DISTRIBUTION
DWH	DOMESTIC WATER HEATER
E	EAST
EBU	EMERGENCY BATTERY UNIT
EC	EMPTY RACEWAY WITH PULL ROPE
ELEC	ELECTRIC, ELECTRICAL
EMER	EMERGENCY
ETR	EXISTING TO REMAIN
FOG	FATS, OILS, AND GREASES
HP	HORSEPOWER
KVA	KILOVOLT-AMPERES
LED	LIGHT-EMITTING DIODE
LTG	LIGHTING
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM
MM	MILLIMETER
N	NORTH
NEC	NATIONAL ELECTRICAL CODE
OCIO	PHYSICAL ACCESS CONTROL SYSTEM (SMITHSONIAN) OFFICE OF THE CHIEF INFORMATION OFFICER
PCAS	POWER MONITOR
PM	POINT OF SALE
POS	POINT OF SALE
RECIRC	RECIRCULATING
REX	REQUEST TO EXIT
RS	RECOMMENDED STANDARD (A TIA STANDARD)
RX	REMOVE EXISTING
S	SOUTH
SPD	SURGE PROTECTIVE DEVICE
SS	STAINLESS STEEL, STAINLESS-STEEL
SWC	SECURITY WIRE CLOSET
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
UC	UNDER COUNTER
UON	UNLESS OTHERWISE NOTED
VA	VOLT-AMPERES
VEST	VESTIBULE(S)
VOIP	VOICE OVER INTERNET PROTOCOL
W	WATT, WEST
WIRING	CONDUCTORS, WITH ASSOCIATED RACEWAY OR CABLE
XFMR	TRANSFORMER

SYSTEMS	
	CARD READER, 48" ABOVE GRADE. SEE H1/E502DT AND D3/E601DG.
	DOOR POSITION SWITCH. SEE H1/E502DT AND D3/E601DG.
	LOCAL SOUNDER FOR ACCESS CONTROL, 84" ABOVE FINISHED FLOOR. SEE H1/E502DT AND D3/E601DG.
	REQUEST TO EXIT SENSOR. SEE H1/E502DT AND D3/E601DG.
	SECURITY CAMERA. PROVIDE CAT-6 CABLE IN 3/4" ELECTRICAL METALLIC TUBING FROM CAMERA TO CASH ROOM. IN PUBLIC SPACES, CONCEAL RACEWAY IN WALLS AND ABOVE CEILINGS. CUT AND PATCH FINISHES AS NEEDED TO INSTALL RACEWAY. INSIDE CASH ROOM, CONNECT CABLE TO APPROPRIATE EQUIPMENT IN CASH ROOM NETWORK RACK.
	CATEGORY SIX DATA JACK WITH CABLE BACK TO NETWORK EQUIPMENT.
	SECURITY MOTION DETECTOR, 360-DEGREE, CEILING-MOUNTED. PROVIDE NEW OR REINSTALL UNIT PREVIOUSLY REMOVED AT SAME LOCATION AS APPROPRIATE.
	HOLD-UP BUTTON, FORTY-EIGHT INCHES ABOVE FINISHED FLOOR.

**UNITS OF MEASURE:
UNITED STATES CUSTOMARY SYSTEM
TO INTERNATIONAL SYSTEM**

ONE HORSEPOWER EQUALS 746 WATTS.
ONE INCH EQUALS 25.4 MILLIMETERS.
ONE FOOT EQUALS 304.8 MILLIMETERS.

INDEX OF DRAWINGS	
NUMBER	NAME
E-001	SYMBOLS AND ABBREVIATIONS
ED101DP	ELECTRICAL DEMOLITION GROUND
ED102DP	ELECTRICAL DEMOLITION MEZZANINE & LOADING DOCK
ED103DP	ELECTRICAL DEMOLITION BASEMENTS
EP101PP	POWER PLAN GROUND
EP102PP	POWER PLAN MEZZANINE
EP103PP	POWER PLAN BASEMENT B1
EP104PP	POWER PLAN BASEMENT B2
EP105PP	POWER PLAN BASEMENT B3
EL101LP	LIGHTING PLAN GROUND
EL102LP	LIGHTING PLAN MEZZANINE
EL103LP	LIGHTING PLAN BASEMENTS
ET101CP	SYSTEMS PLAN GROUND
ET102CP	SYSTEMS PLAN MEZZANINE
ET103CP	SYSTEMS PLAN BASEMENTS
E-501DT	ELECTRICAL DETAILS
E-502DT	ELECTRICAL DETAILS
E-503DT	ELECTRICAL DETAILS
E-601DG	ELECTRICAL DIAGRAMS
E-602SH	PANEL SCHEDULES
E-603DG	ELECTRICAL DIAGRAMS
E-604DG	ELECTRICAL DIAGRAMS & SCHEDULES
FA101FP	FIRE ALARM PLANS

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jamesposey.com
12/08

KEY PLAN

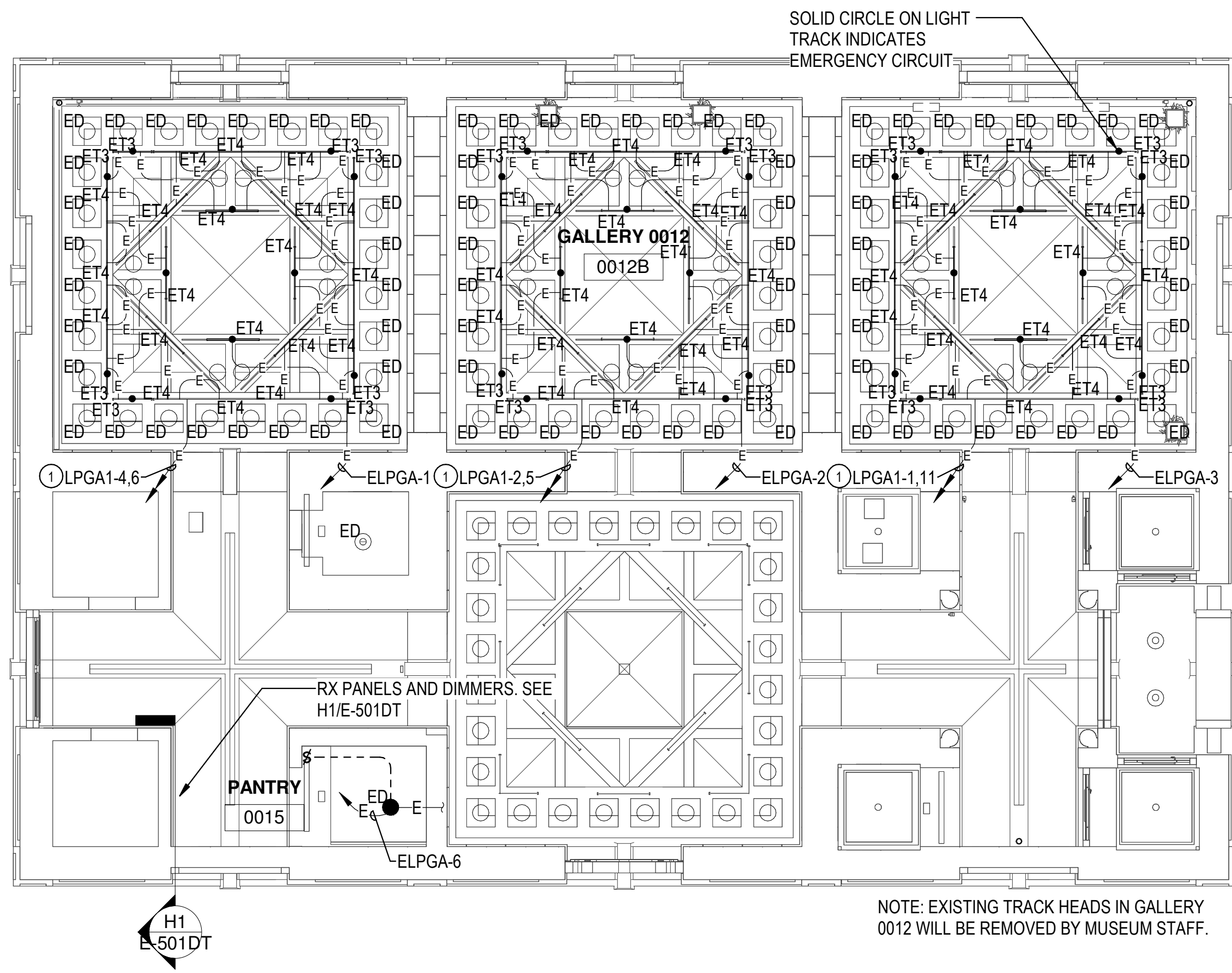
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DATE 07/18/24	REVISION Final Construction Documents
REVISION # DATE	REVISION DESCRIPTION

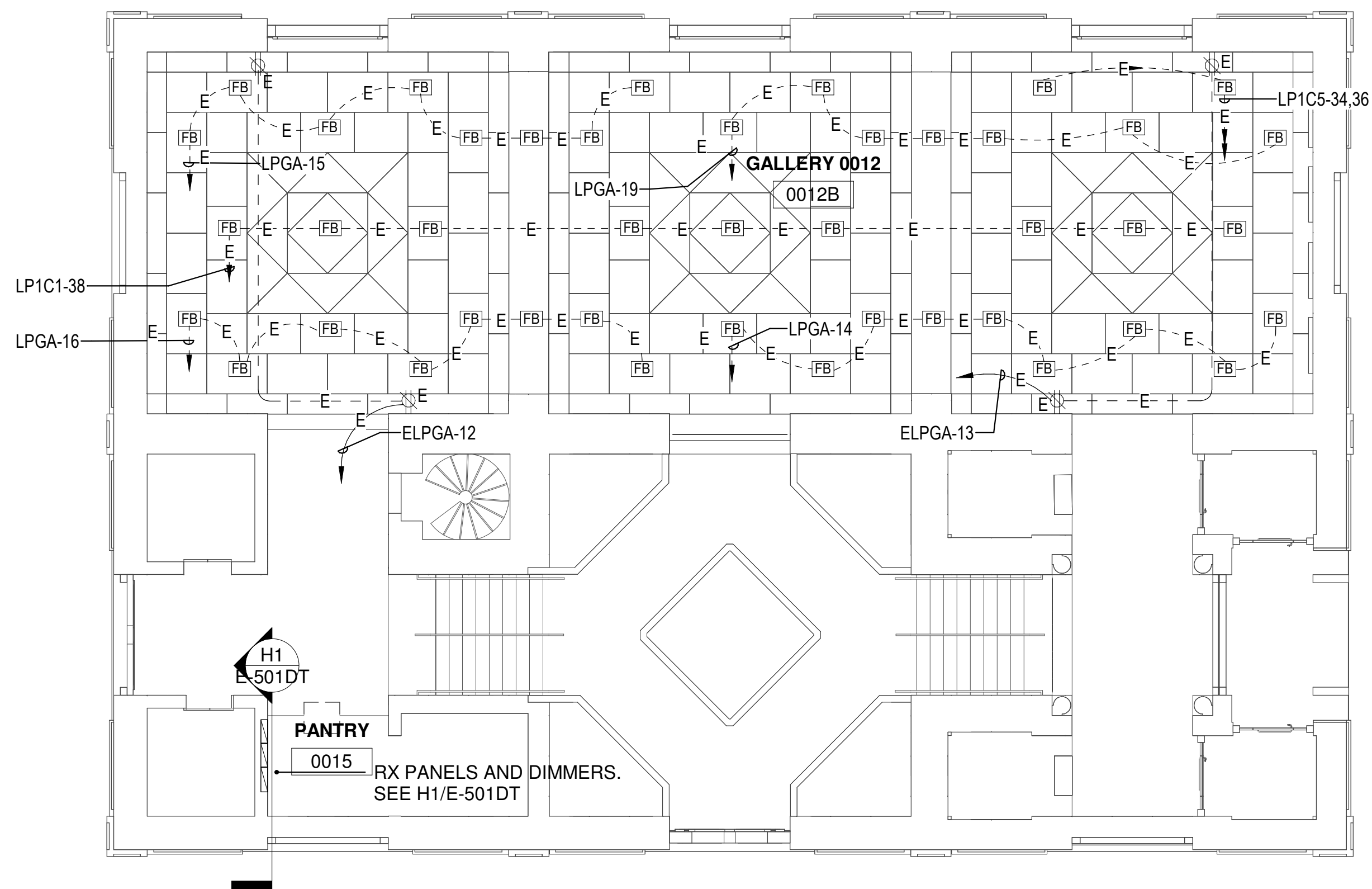
**Smithsonian
Institution**
Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	SYMBOLS AND ABBREVIATIONS

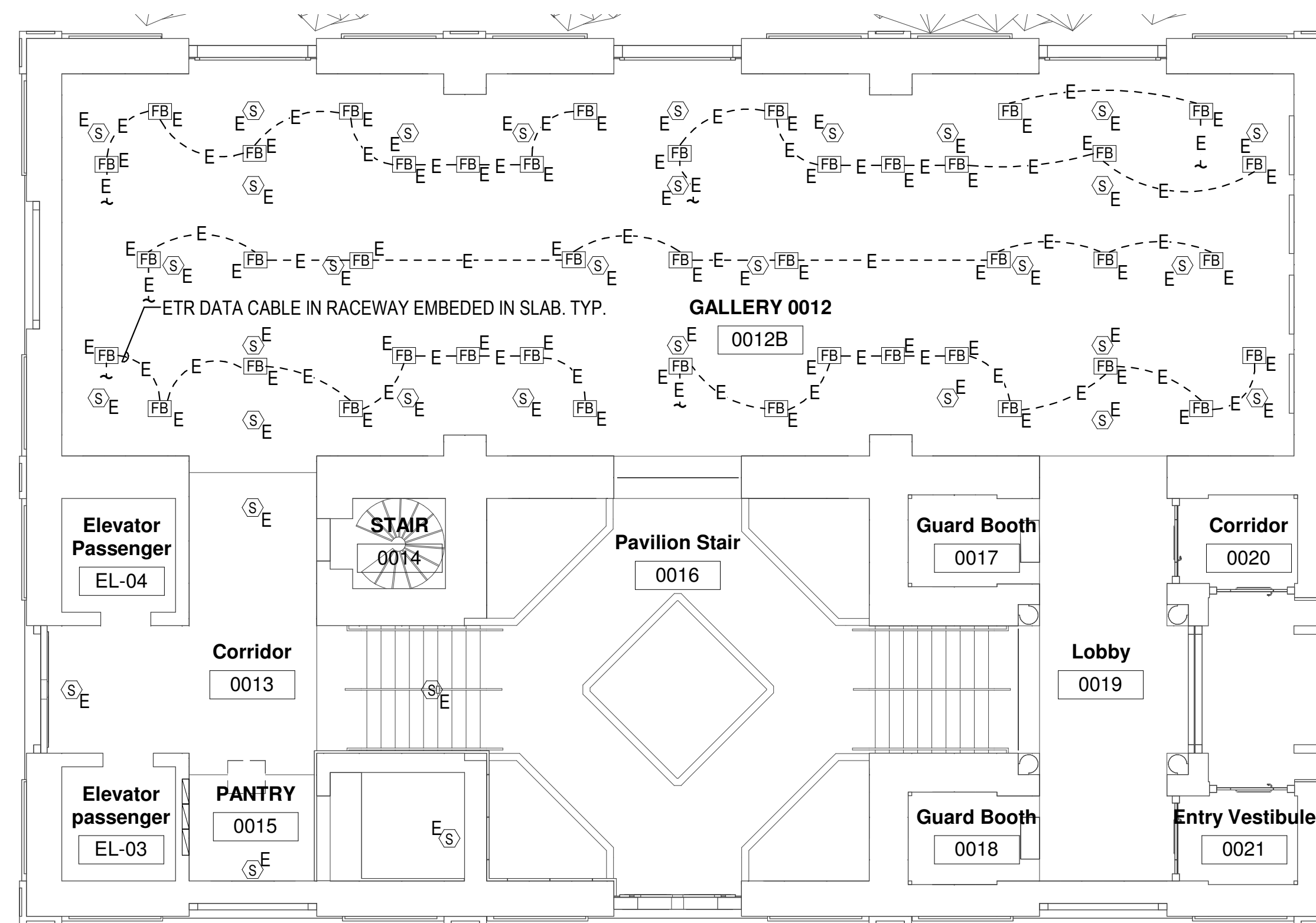
WORKING STAFF	MRH	MRH	TMC
DESIGNED BY	DRAWN BY	CHECKED BY	
SHEET NO.	E - 001		
61 of 103	DISCIPLINE	TYPE	SEQUENCE DRAWING TYPE



G1 LIGHTING DEMO PLAN-PAVILION
 ED101DP SCALE = 1/8" = 1'-0"



A1 POWER DEMO PLAN-PAVILION
 ED101DP SCALE = 1/8" = 1'-0"



G7 SYSTEMS DEMO PLAN PAVILION
 ED101DP SCALE = 1/8" = 1'-0"

GENERAL NOTES:

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE COIR IN WRITING AND Awaiting DIRECTION BEFORE PROCEEDING WITH THE WORK. LOCATIONS OF EXISTING TO REMAIN WIRING ARE DIAGRAMMATIC. VERIFY LOCATION IN FIELD.
- B. DEMOLITION INCLUDES REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- C. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.
- D. MAKE CONTINUOUS ANY EXISTING CIRCUITS INTERRUPTED BY DEMOLITION BUT WHICH ARE TO REMAIN.
- E. WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, EXTEND EXISTING WIRE AND RACEWAY TO NEW LOCATION AS REQUIRED.
- F. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE BLANK COVER PLATES FOR DEVICES REMOVED.

SPECIFIC NOTES:

- ① RECORD DRAWINGS SHOW ONE NORMAL TRACK LIGHTING CIRCUIT PER BAY. SCHEDULE FOR EXISTING DRAWING LPGA1 SHOWS TWO NORMAL TRACK LIGHTING CIRCUITS PER BAY. VERIFY AND NOTE CORRECT CIRCUIT DESIGNATIONS ON RECORD DRAWINGS.

architrave p.c.

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 tel 410-265-6000
 jamesposey.com
 03/08

REGISTERED PROFESSIONAL ENGINEER

LEVEL G

KEY PLAN

0 32' 64'

1/32" = 1'-0"

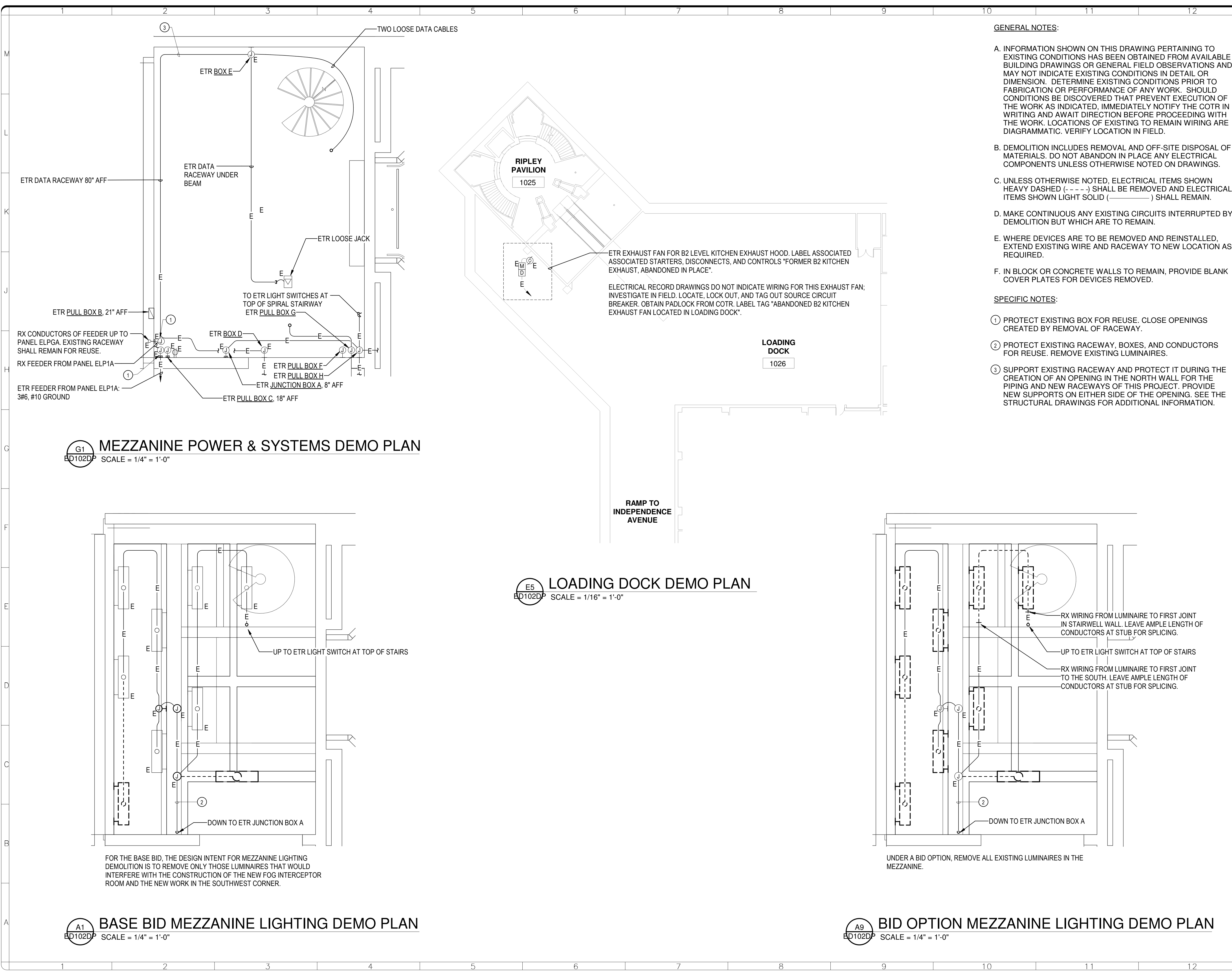
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DATE	07/18/24	REVISION	
DESCRIPTION	Final Construction Documents		
REVISION #	DATE	DESCRIPTION	

Smithsonian Institution

Smithsonian Facilities
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	ELECTRICAL DEMOLITION GROUND
WORKING STAFF	MRH MRH TMC
SHEET NO.	ED101DP
62 of 103	DISCIPLINE TYPE SEQUENCE DRAWING TYPE



G1 MEZZANINE POWER & SYSTEMS DEMO PLAN
 ED102DP SCALE = 1/4" = 1'-0"

E5 LOADING DOCK DEMO PLAN
 ED102DP SCALE = 1/16" = 1'-0"

A1 BASE BID MEZZANINE LIGHTING DEMO PLAN
 ED102DP SCALE = 1/4" = 1'-0"

A9 BID OPTION MEZZANINE LIGHTING DEMO PLAN
 ED102DP SCALE = 1/4" = 1'-0"

GENERAL NOTES:

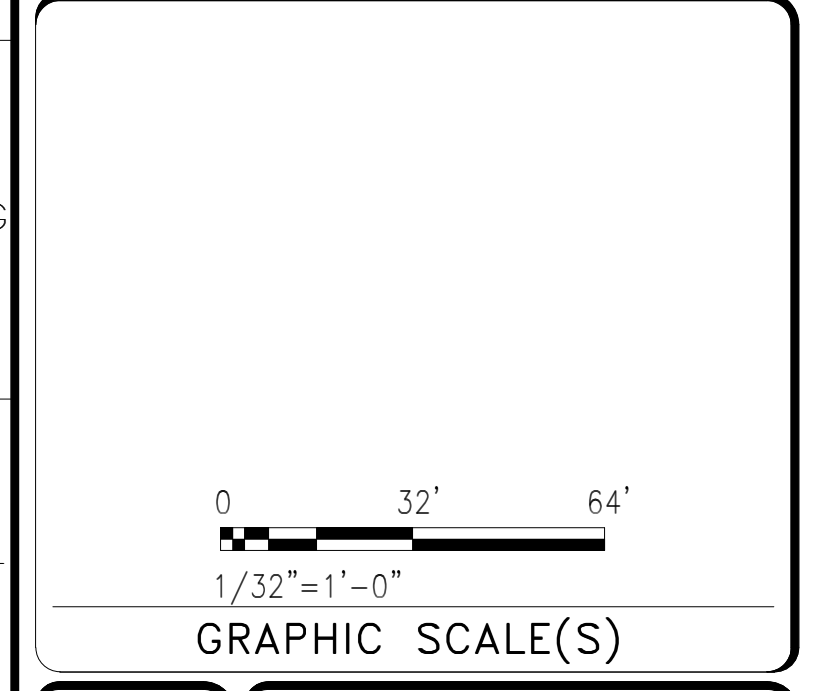
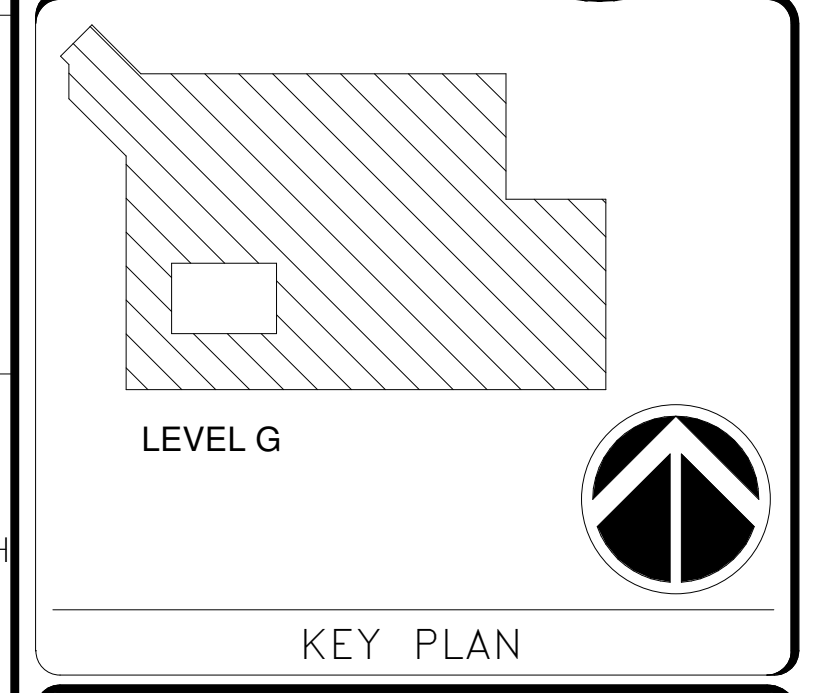
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK. LOCATIONS OF EXISTING TO REMAIN WIRING ARE DIAGRAMMATIC. VERIFY LOCATION IN FIELD.
 - B. DEMOLITION INCLUDES REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
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 - E. WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, EXTEND EXISTING WIRE AND RACEWAY TO NEW LOCATION AS REQUIRED.
 - F. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE BLANK COVER PLATES FOR DEVICES REMOVED.
- SPECIFIC NOTES:**
- PROTECT EXISTING BOX FOR REUSE. CLOSE OPENINGS CREATED BY REMOVAL OF RACEWAY.
 - PROTECT EXISTING RACEWAY, BOXES, AND CONDUCTORS FOR REUSE. REMOVE EXISTING LUMINAIRES.
 - SUPPORT EXISTING RACEWAY AND PROTECT IT DURING THE CREATION OF AN OPENING IN THE NORTH WALL FOR THE PIPING AND NEW RACEWAYS OF THIS PROJECT. PROVIDE NEW SUPPORTS ON EITHER SIDE OF THE OPENING. SEE THE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

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REGISTERED PROFESSIONAL ENGINEER

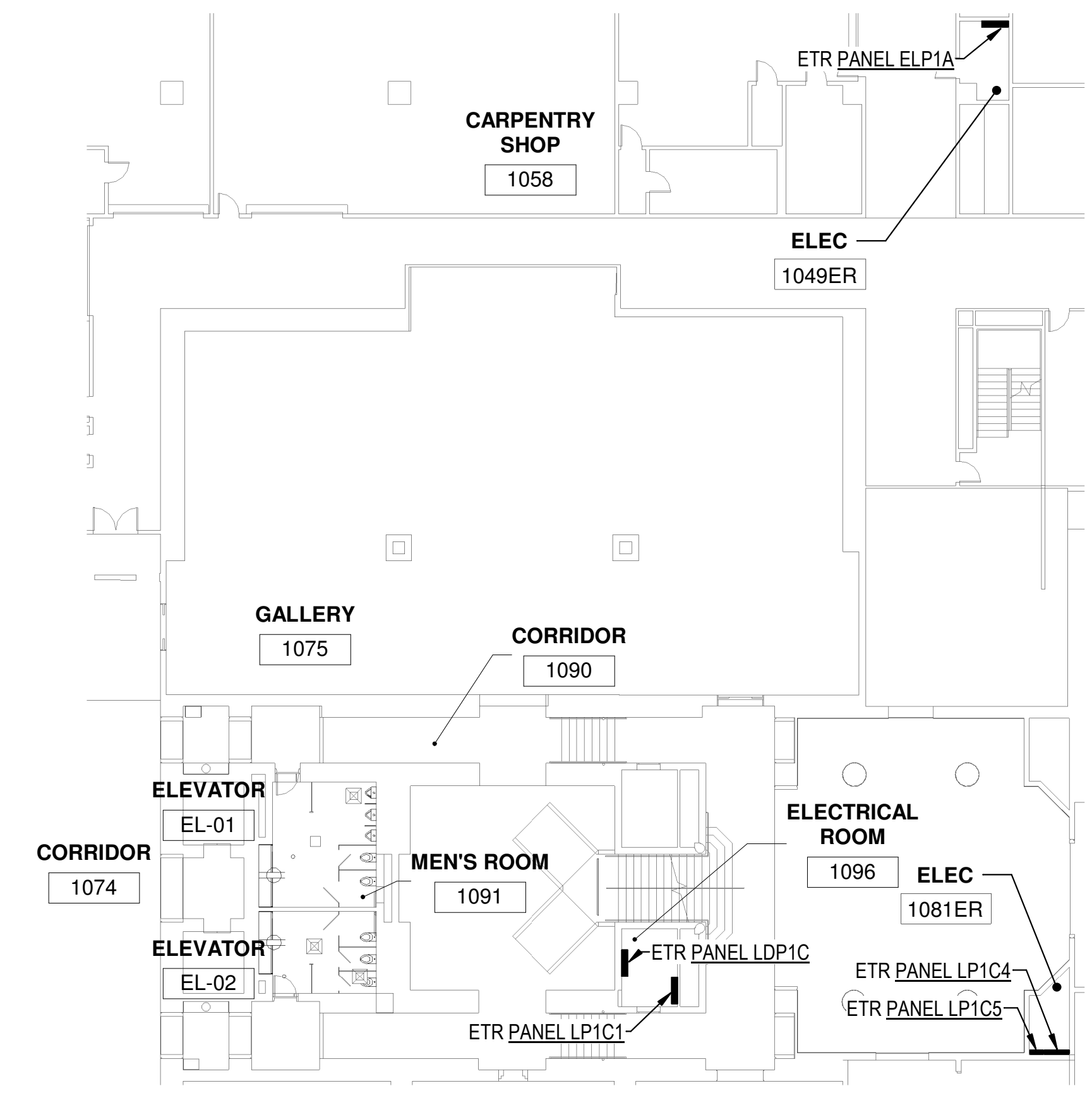


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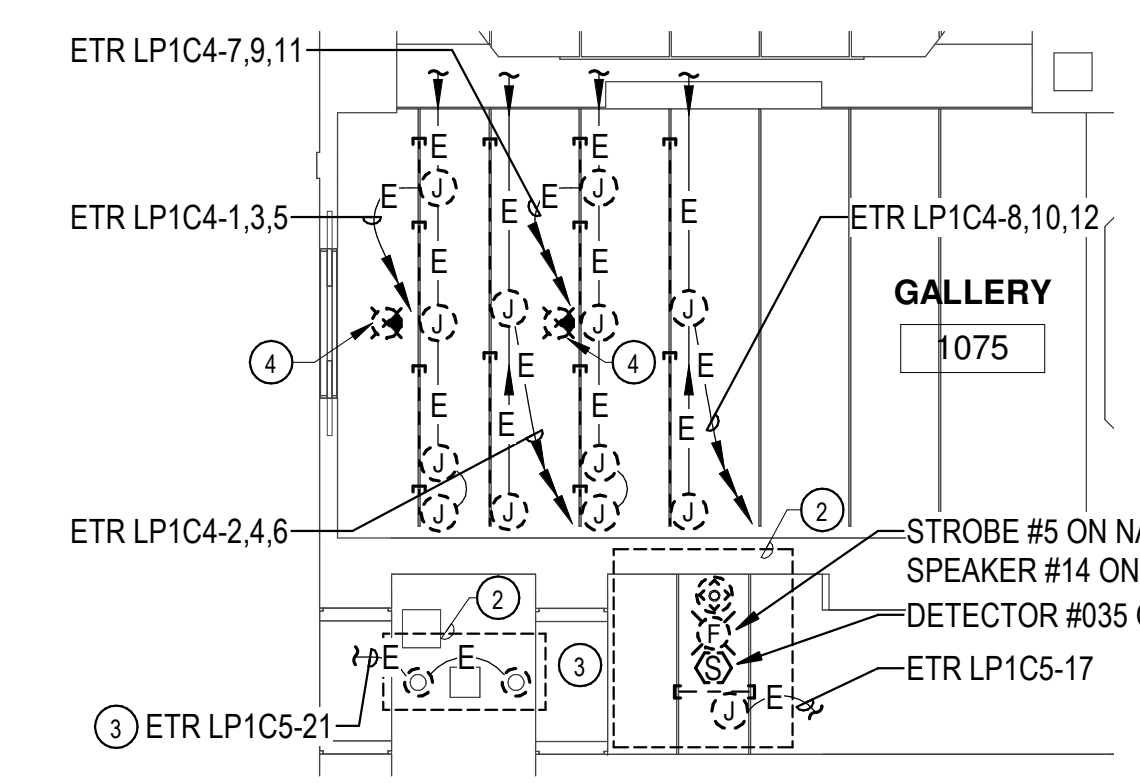
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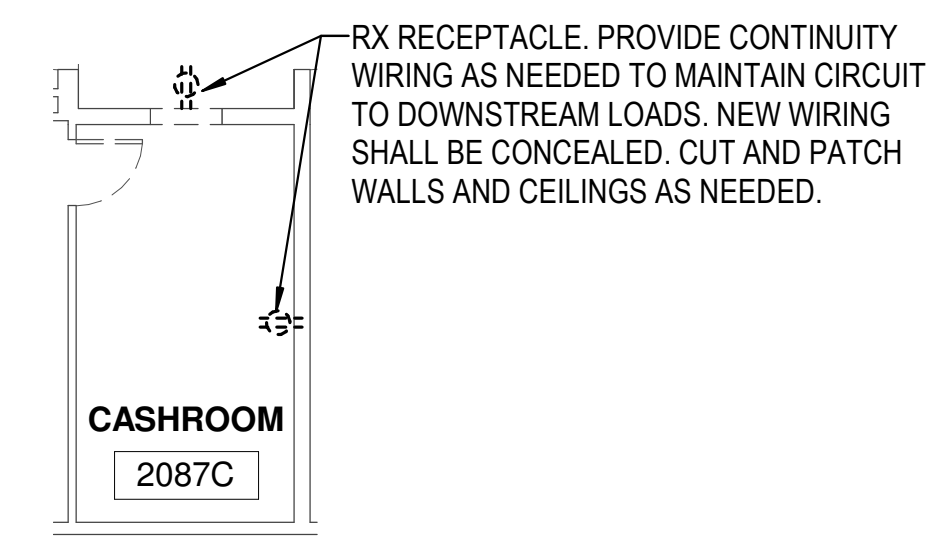
BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	ELECTRICAL DEMOLITION MEZZANINE & LOADING DOCK
WORKING STAFF	MRH MRH TMC
DESIGNED BY	MRH
DRAWN BY	MRH
CHECKED BY	TMC
SHEET NO.	ED102DP
63 of 103	



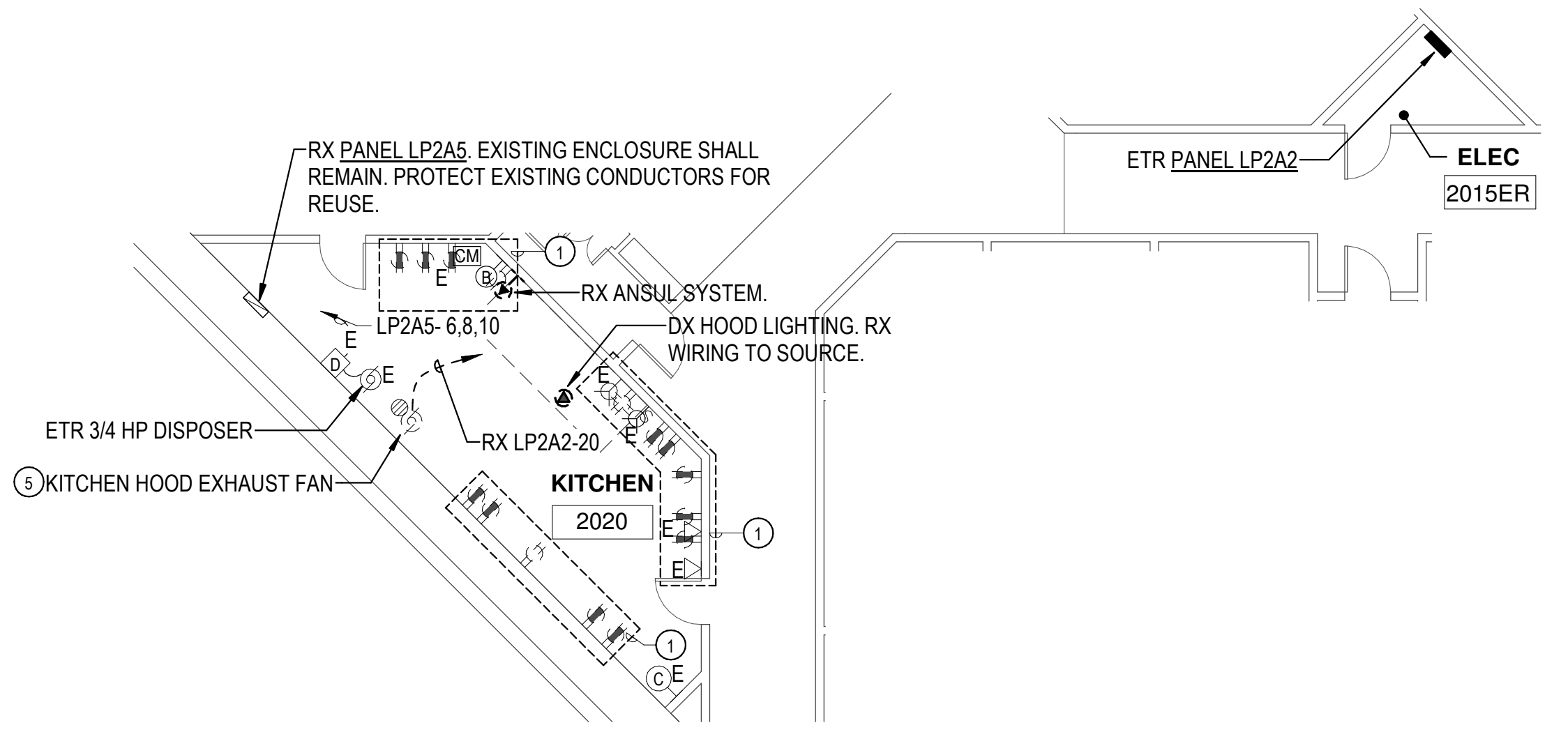
G1 POWER DEMOLITION PLAN B1 LEVEL
 ED103DP SCALE = 1/16" = 1'-0"



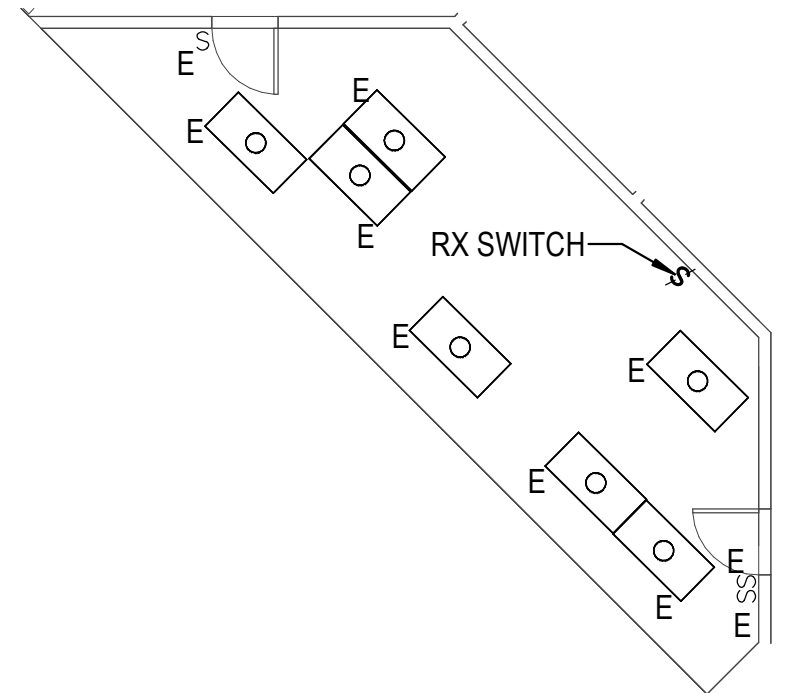
D1 LIGHTING DEMOLITION PLAN B1 LEVEL
 ED103DP SCALE = 1/8" = 1'-0"



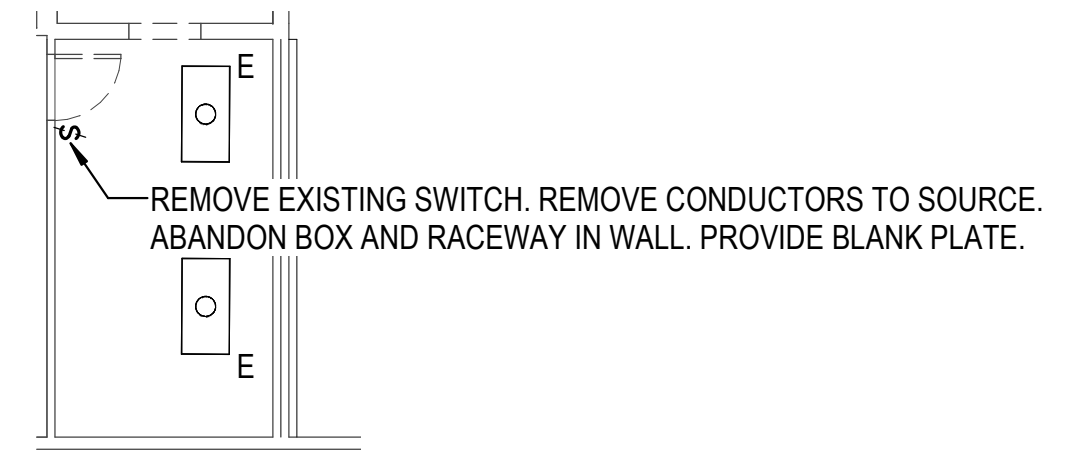
A1 POWER DEMO PLAN B2 CASH ROOM
 ED103DP SCALE = 1/8" = 1'-0"



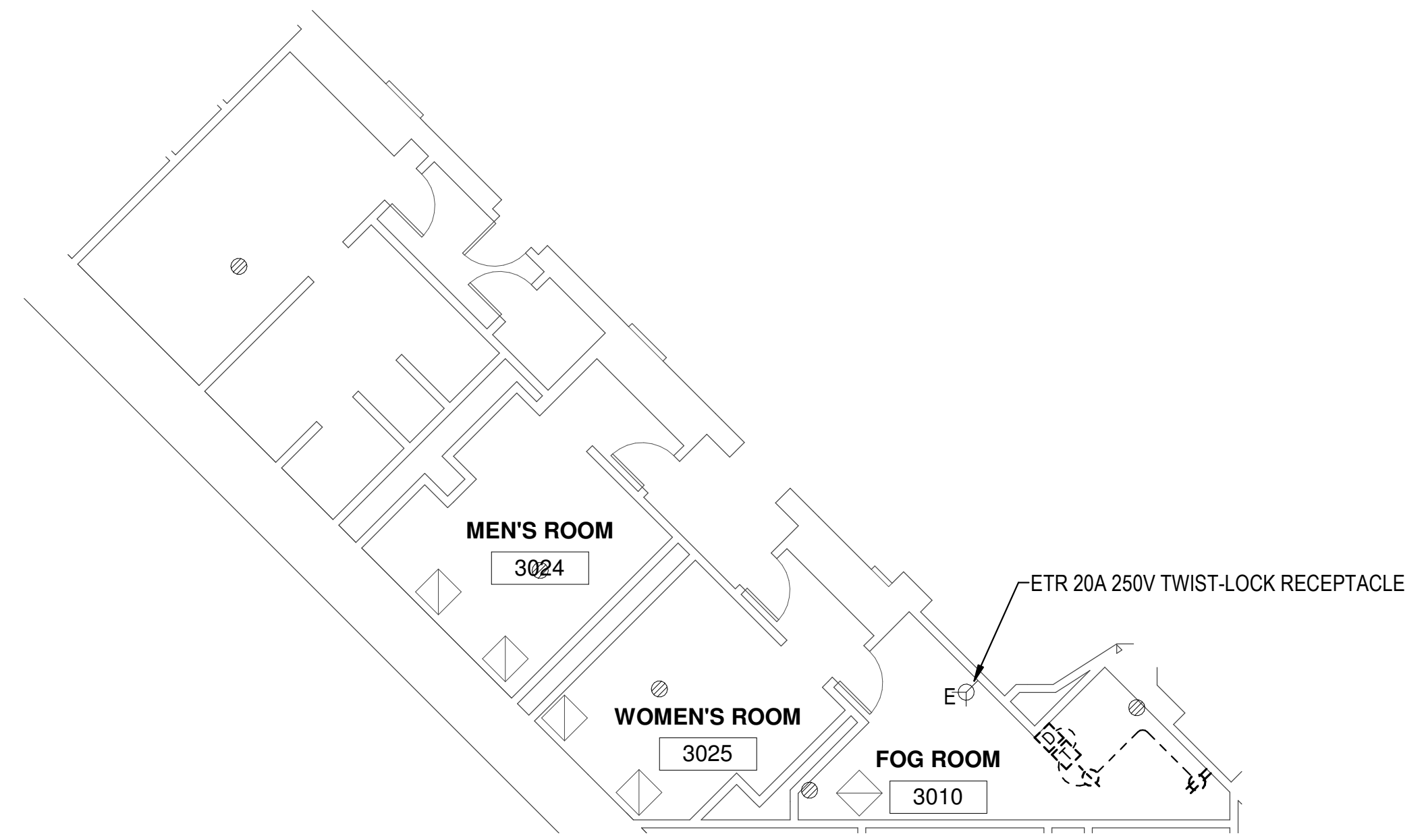
J7 POWER DEMOLITION PLAN B2 KITCHEN
 ED103DP SCALE = 1/8" = 1'-0"



G7 LIGHTING DEMOLITION PLAN B2 KITCHEN
 ED103DP SCALE = 1/8" = 1'-0"



E7 LIGHTING DEMOLITION PLAN B2 CASH ROOM
 ED103DP SCALE = 1/8" = 1'-0"



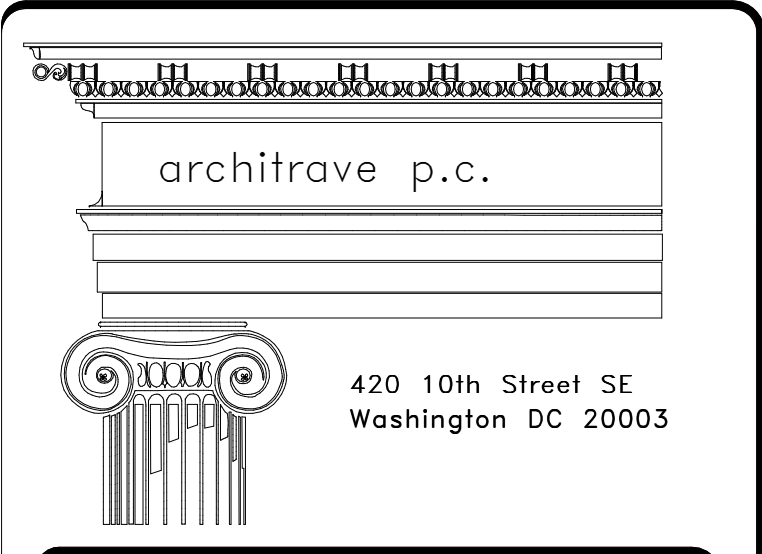
A7 POWER DEMOLITION PLAN B3 LEVEL
 ED103DP SCALE = 1/8" = 1'-0"

GENERAL NOTES:

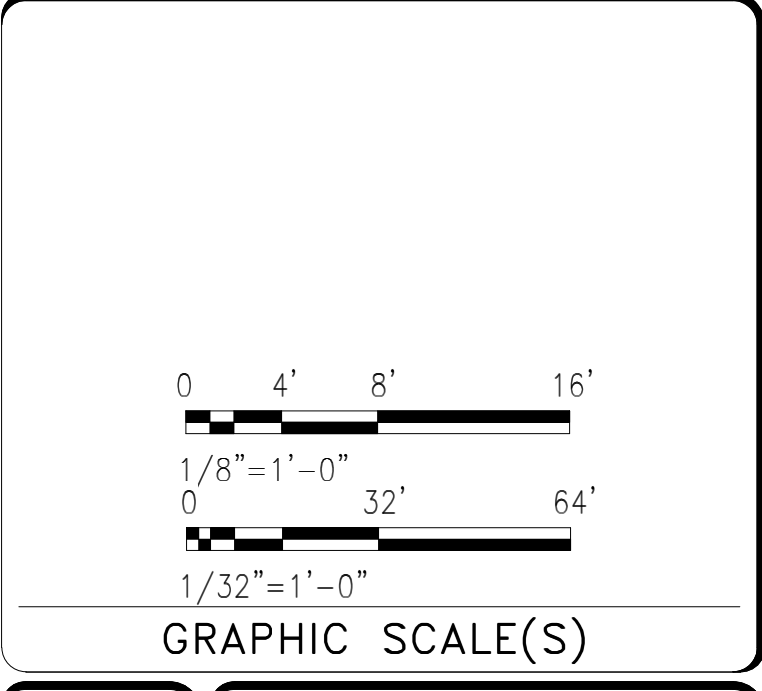
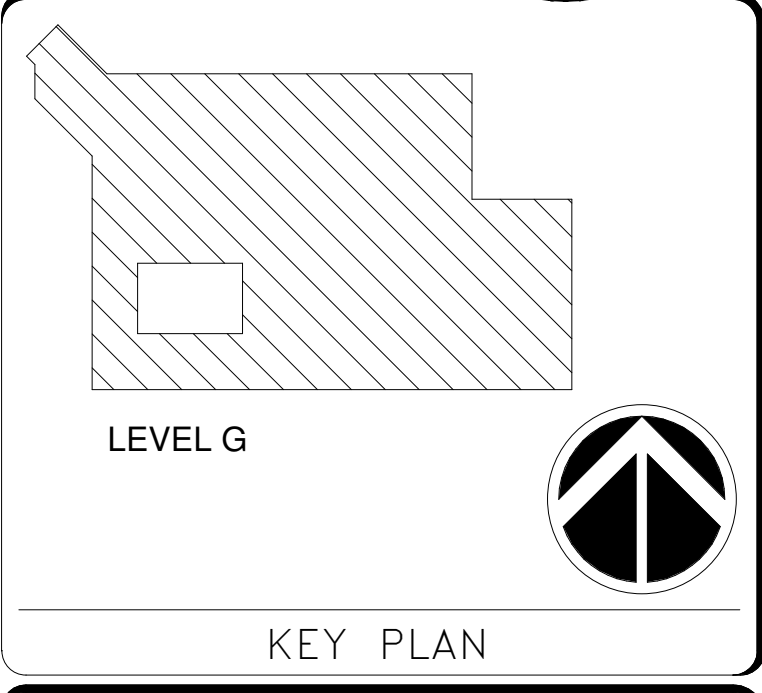
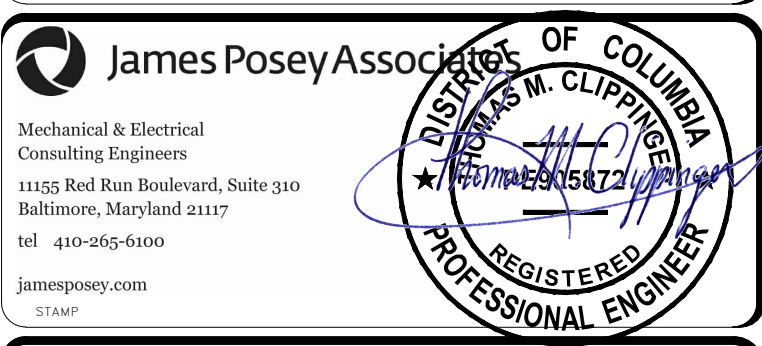
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE CONTRACTOR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK. LOCATIONS OF EXISTING TO REMAIN WIRING ARE DIAGRAMMATIC. VERIFY LOCATION IN FIELD.
- B. DEMOLITION INCLUDES REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- C. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.
- D. MAKE CONTINUOUS ANY EXISTING CIRCUITS INTERRUPTED BY DEMOLITION BUT WHICH ARE TO REMAIN.
- E. WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, EXTEND EXISTING WIRE AND RACEWAY TO NEW LOCATION AS REQUIRED.
- F. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE BLANK COVER PLATES FOR DEVICES REMOVED.

SPECIFIC NOTES:

- ① REMOVE EXISTING NEMA 5-15R AND NEMA 5-20R DUPLEX RECEPTACLES. REMOVE EXISTING WALL PLATES, OUTLET BOXES AND CONDUCTORS SHALL REMAIN FOR REUSE.
- ② AFTER SMITHSONIAN HAS REMOVED ANY EXISTING TRACK HEADS, REMOVE REMAINING EXISTING LUMINAIRES. REMOVE EXISTING LIGHT TRACK, FIRE ALARM DEVICES, AND MOTION DETECTORS. SAVE FOR REUSE. EXISTING WIRING ABOVE CEILING IS TO REMAIN. MAKE SAFE AND PROTECT CONTINUITY TO OTHER LOADS ON CIRCUIT INDICATED.
- ③ CIRCUIT NUMBER IS BASED ON THE RECORD DRAWINGS. CONFIRM.
- ④ REMOVE EXISTING EXIT SIGN AND SAVE FOR REUSE. EXISTING WIRING ABOVE CEILING IS TO REMAIN. MAKE SAFE AND PROTECT CONTINUITY TO OTHER LOADS ON CIRCUIT. CIRCUIT IS ELP1A-30 PER THE RECORD DRAWINGS.
- ⑤ LOCATION OF FAN IS DIAGRAMMATIC. AVAILABLE RECORD DRAWINGS DO NOT INDICATE LOCATION OF EXHAUST FAN FOR KITCHEN HOOD. RECORD DRAWINGS DO INDICATE FAN IS SERVED BY CIRCUIT LP2A2-20. LOCATE EXISTING FAN AND DISCONNECT FROM ITS CIRCUIT. REMOVE EXISTING ASSOCIATED ELECTRICAL DEVICES. REMOVE EXISTING WIRING FROM FAN TO SOURCE. LEAVE CIRCUIT BREAKER IN THE OFF POSITION, AND UPDATE PANELBOARD SCHEDULE TO INDICATE CIRCUIT BREAKER IS SPARE.



FOR CONSTRUCTION

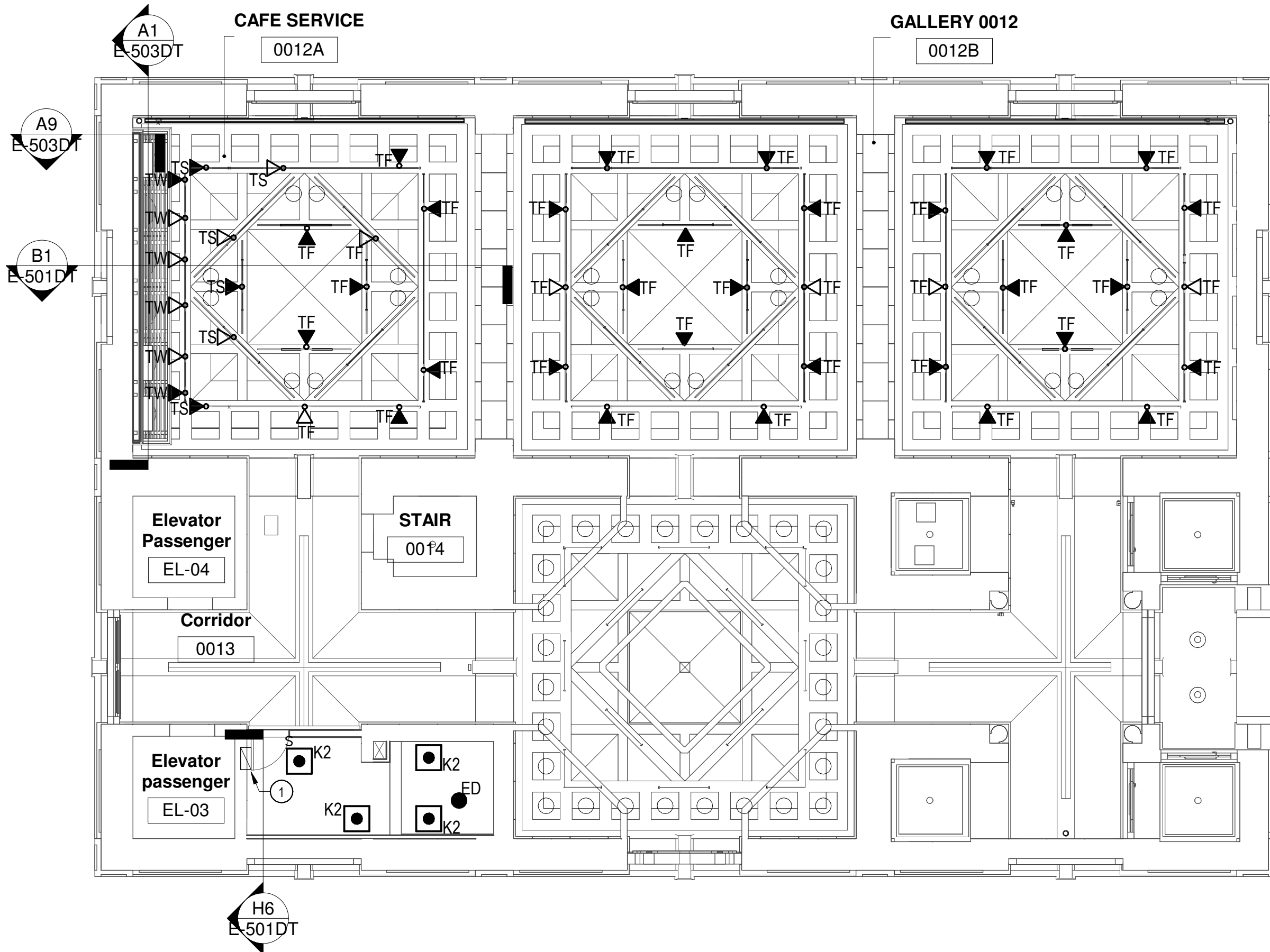


DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	DESCRIPTION	

BUILDING NAME	NMAA												
ADDRESS	12th and Independence Avenue, SW, Washington DC												
PROJECT TITLE	CAFE AT SACKLER PAVILION												
SF PROJECT NUMBER	2209110												
A/E PROJECT NUMBER	1401.54												
DRAWING TITLE	ELECTRICAL DEMOLITION BASEMENTS												
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>MRH</td> <td>MRH</td> <td>TMC</td> </tr> <tr> <td>DRAWN BY</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> <td></td> <td></td> </tr> </table>	DESIGNED BY	MRH	MRH	TMC	DRAWN BY				CHECKED BY			
DESIGNED BY	MRH	MRH	TMC										
DRAWN BY													
CHECKED BY													
SHEET NO.	ED103DP												
64 of 103													

THIS DRAWING SHOWS EXISTING LIGHT TRACKS (WITHOUT IDENTIFICATION) IN THE GALLERY BUT NO OTHER EXISTING LUMINAIRES IN THE GALLERY BECAUSE THEY ARE NOT RELEVANT TO THIS PROJECT.

MUSEUM STAFF WILL INSTALL AND AIM TRACK HEADS AS FOLLOWS: AIM TYPE TF TRACK HEADS STRAIGHT DOWN, AIM TYPE TS AND TYPE TW TRACK HEADS, THEN RE- AIM AS NECESSARY. THE DESIGN INTENT IS TO ADJUST AIM TO ILLUMINATE WORK COUNTERS WITH TYPE TS TRACK HEADS AND TO ILLUMINATE WEST WALL WITH TYPE TW TRACK HEADS.

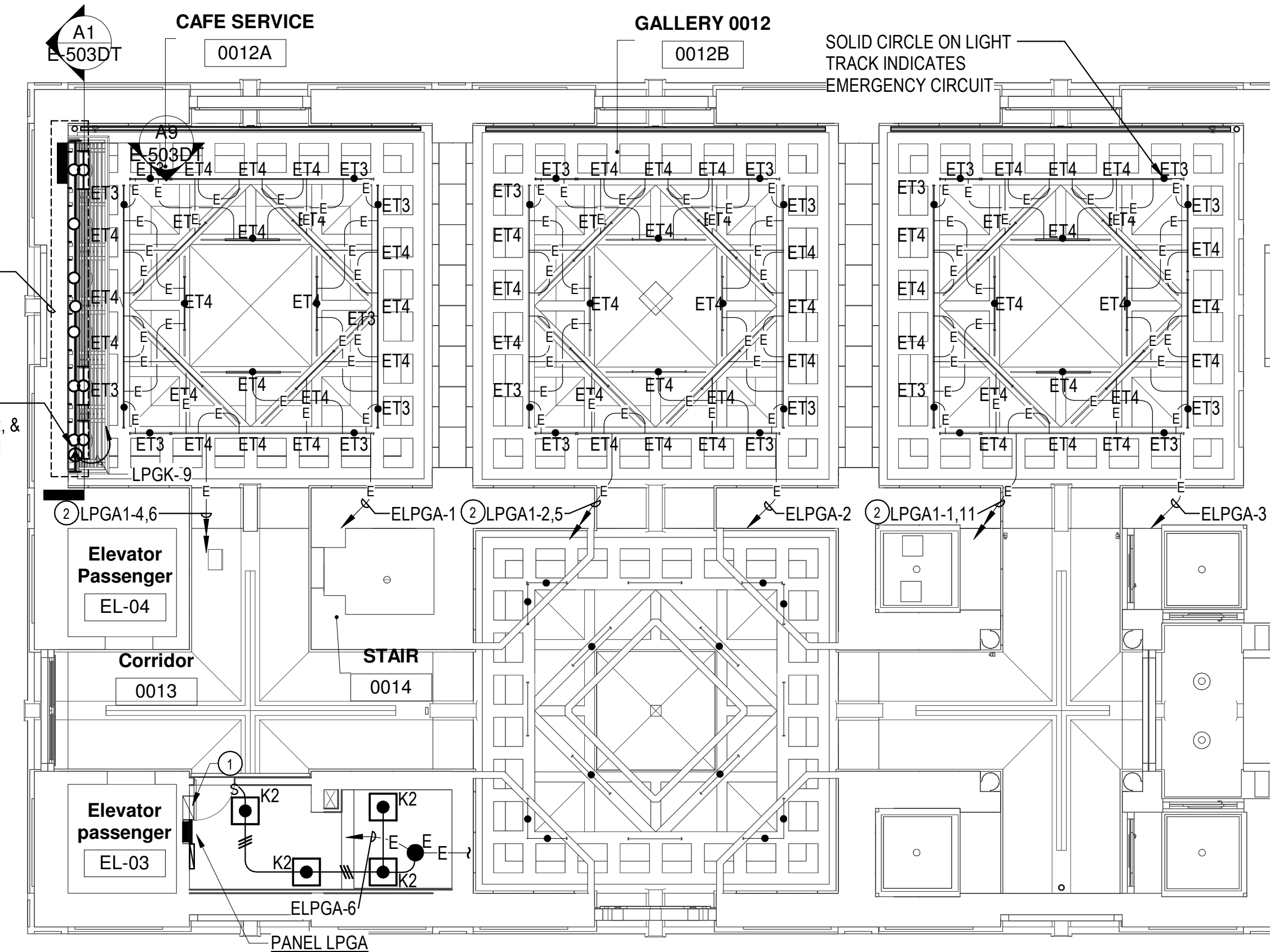


C3
EL101LP
GROUND LEVEL LIGHTING PLAN
SCALE = 1/8" = 1'-0"

THIS DRAWING SHOWS EXISTING LIGHT TRACKS AND WEST WALL MILLWORK LUMINAIRES BUT NO OTHER EXISTING LUMINAIRES IN THE CAFE SERVICE AND GALLERY BECAUSE THEY ARE NOT RELEVANT TO THIS PROJECT.

SEE ELEVATION A1 AND DETAIL A9 ON E503DT FOR LUMINAIRE TYPES M1, M2, AND M3

DRIVERS, POWER SUPPLIES, AND BLUE TOOTH INTERFACE(S) FOR TYPES M1, M2, & M3 LUMINAIRES. CLASS 2 CABLING FROM DRIVERS TO LUMINAIRES NOT SHOWN.



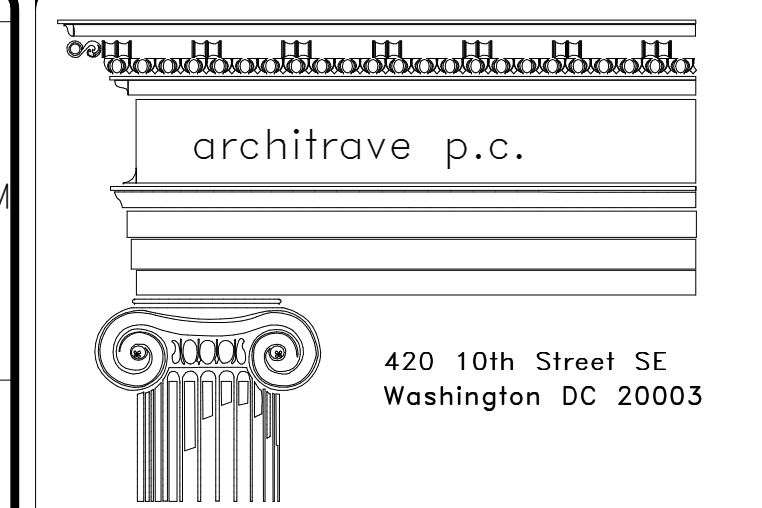
C8
EL101LP
GROUND LEVEL LIGHTING CIRCUIT PLAN
SCALE = 1/8" = 1'-0"

GENERAL NOTES:

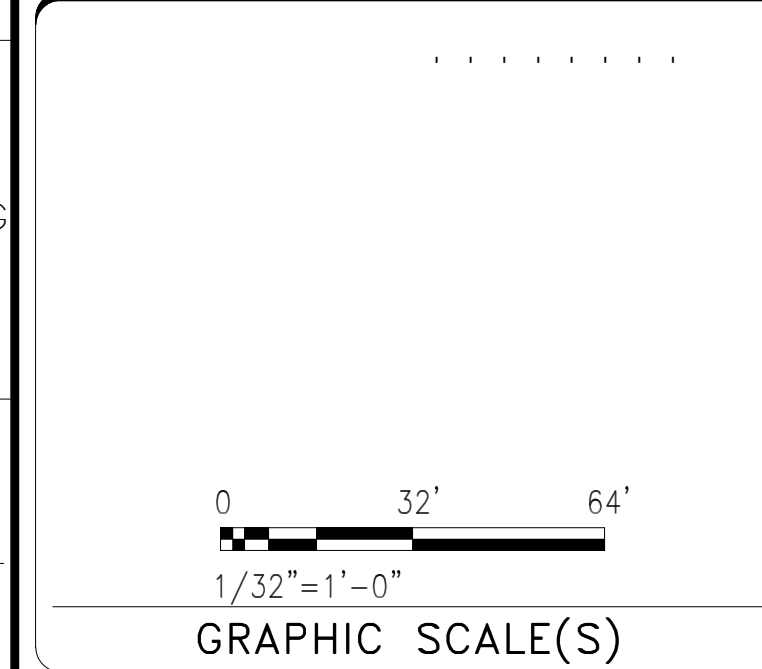
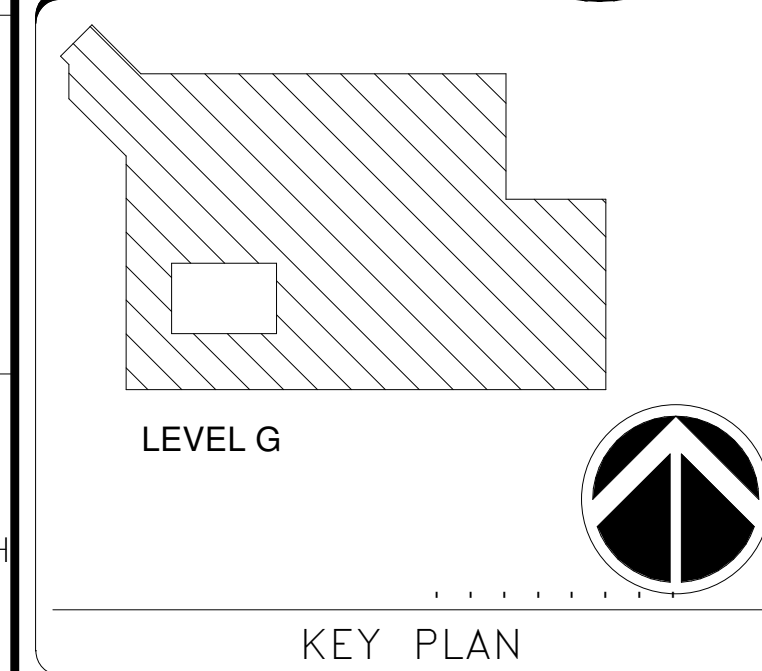
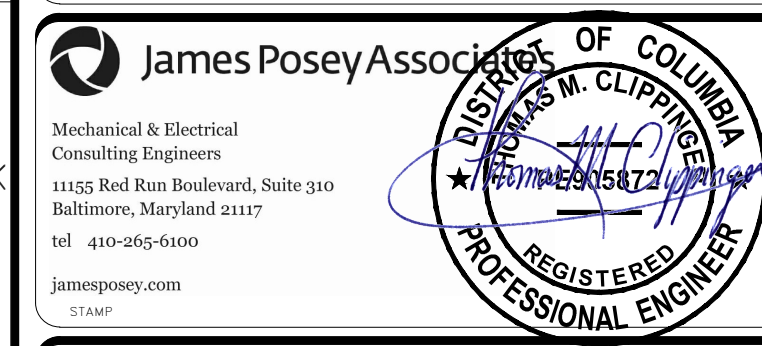
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SPECIFIC NOTES:

- 1 SPLICE BOX SB1 WITH EXISTING TO REMAIN DIMMER CABINET BELOW. SEE ELEVATION H6/E501DT. CAFE LIGHTING CONTROLLER TSC. MOUNT FLUSH IN COVER OF SPLICE BOX SB1.
- 2 EXISTING TO REMAIN WIRING TO NEW PANEL LPGA, PROVIDE ADDITIONAL CONDUCTORS AS NEEDED TO COMPLETE CIRCUIT. IF NEW CIRCUIT NUMBERS ARE DIFFERENT THAN WHAT IS INDICATED ON THIS DRAWING, NOTE CORRECT CIRCUIT NUMBERS IN PANELBOARD CIRCUIT DIRECTORY AND ON RECORD DRAWINGS.



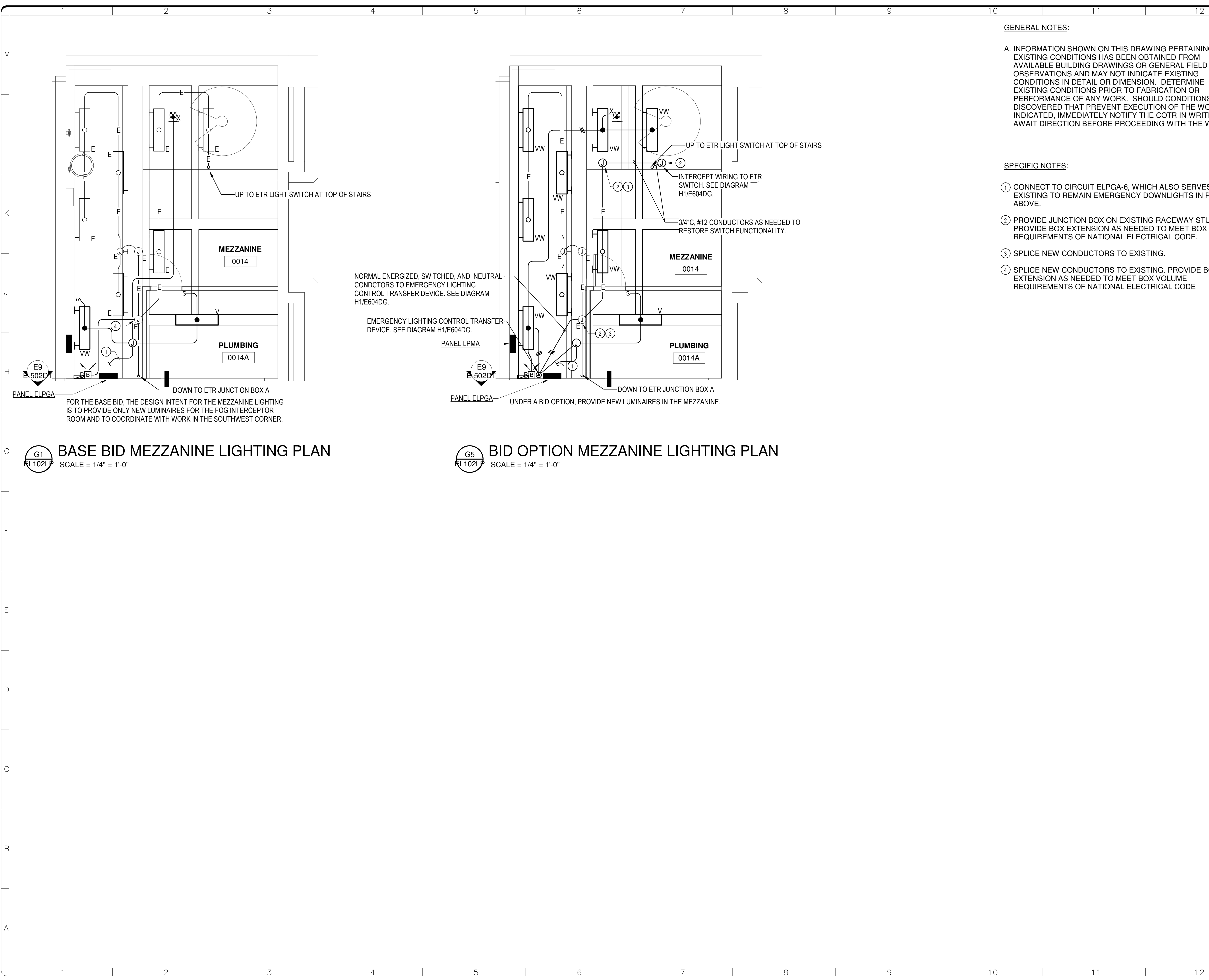
FOR CONSTRUCTION



DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	REVISION DESCRIPTION	



BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	LIGHTING PLAN GROUND
WORKING STAFF	MRH (DESIGNED BY), MRH (DRAWN BY), TMC (CHECKED BY)
SHEET NO.	EL101LP
65 of 103	



GENERAL NOTES:

A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

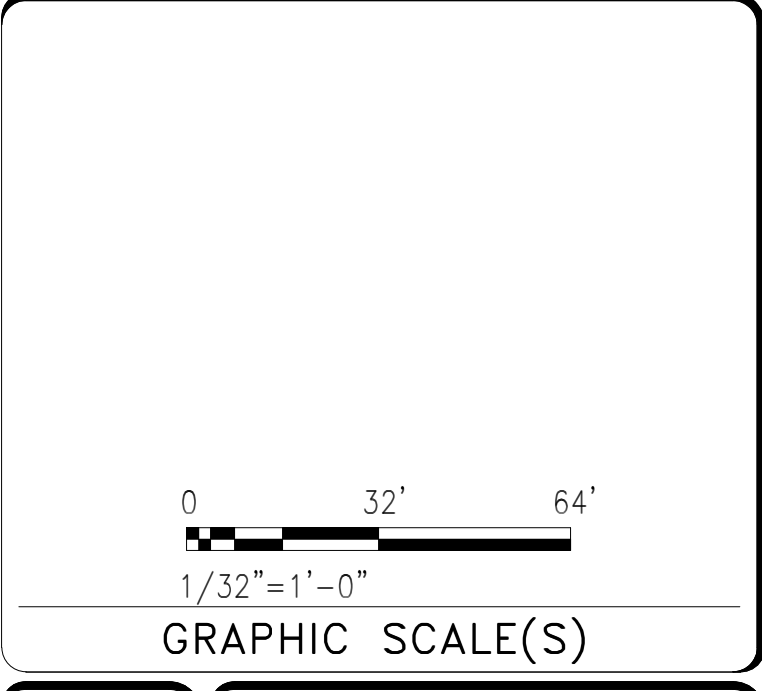
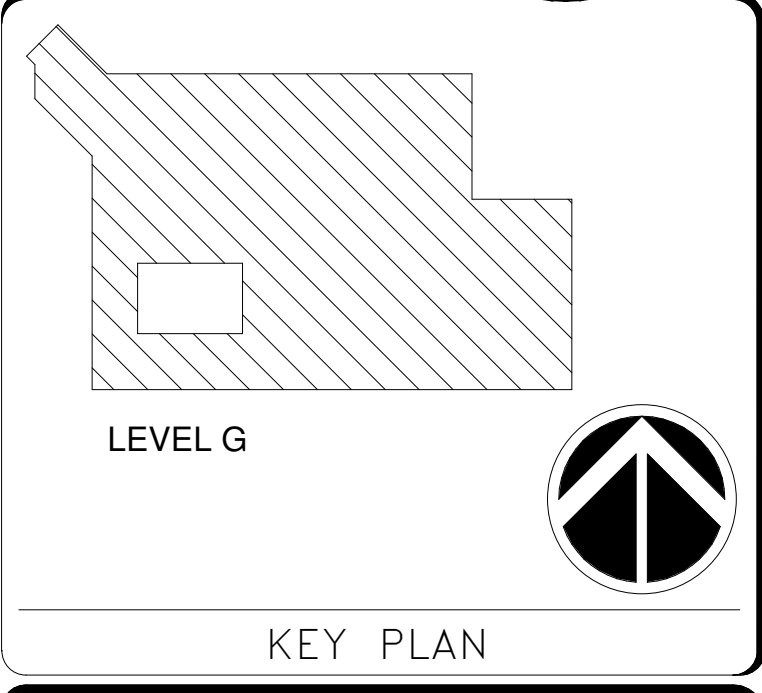
SPECIFIC NOTES:

- ① CONNECT TO CIRCUIT ELPGA-6, WHICH ALSO SERVES EXISTING TO REMAIN EMERGENCY DOWNLIGHTS IN PAVILION ABOVE.
- ② PROVIDE JUNCTION BOX ON EXISTING RACEWAY STUB. PROVIDE BOX EXTENSION AS NEEDED TO MEET BOX VOLUME REQUIREMENTS OF NATIONAL ELECTRICAL CODE.
- ③ SPLICE NEW CONDUCTORS TO EXISTING.
- ④ SPLICE NEW CONDUCTORS TO EXISTING. PROVIDE BOX EXTENSION AS NEEDED TO MEET BOX VOLUME REQUIREMENTS OF NATIONAL ELECTRICAL CODE.

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Washington DC 20003

FOR CONSTRUCTION

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Mechanical & Electrical Consulting Engineers
1155 Red Run Boulevard, Suite 310
Baltimore, Maryland 21117
tel 410-269-6000
jamesposey.com



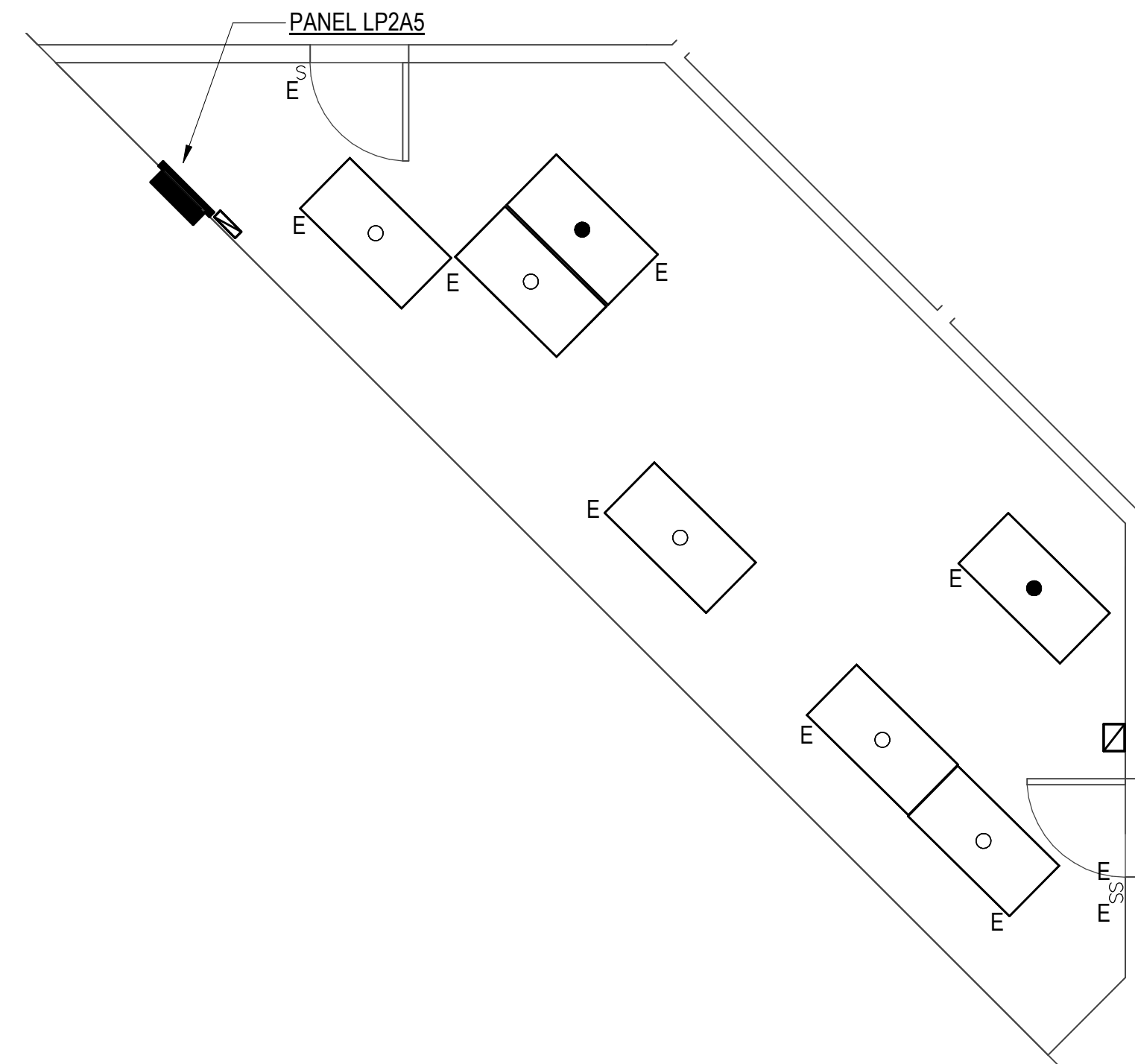
DATE	SUBMISSION
07/18/24	Final Construction Documents
REVISION # DATE	REVISION DESCRIPTION

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Washington, DC 20024-2520

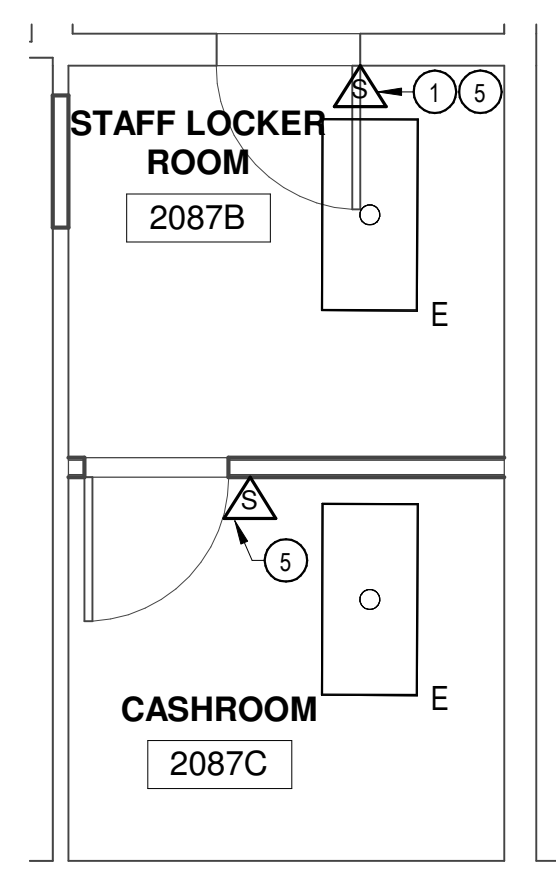
BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	LIGHTING PLAN MEZZANINE
WORKING STAFF	MRH MRH TMC
DESIGNED BY	DRAWN BY
CHECKED BY	

SHEET NO. **EL102LP**
66 of 103

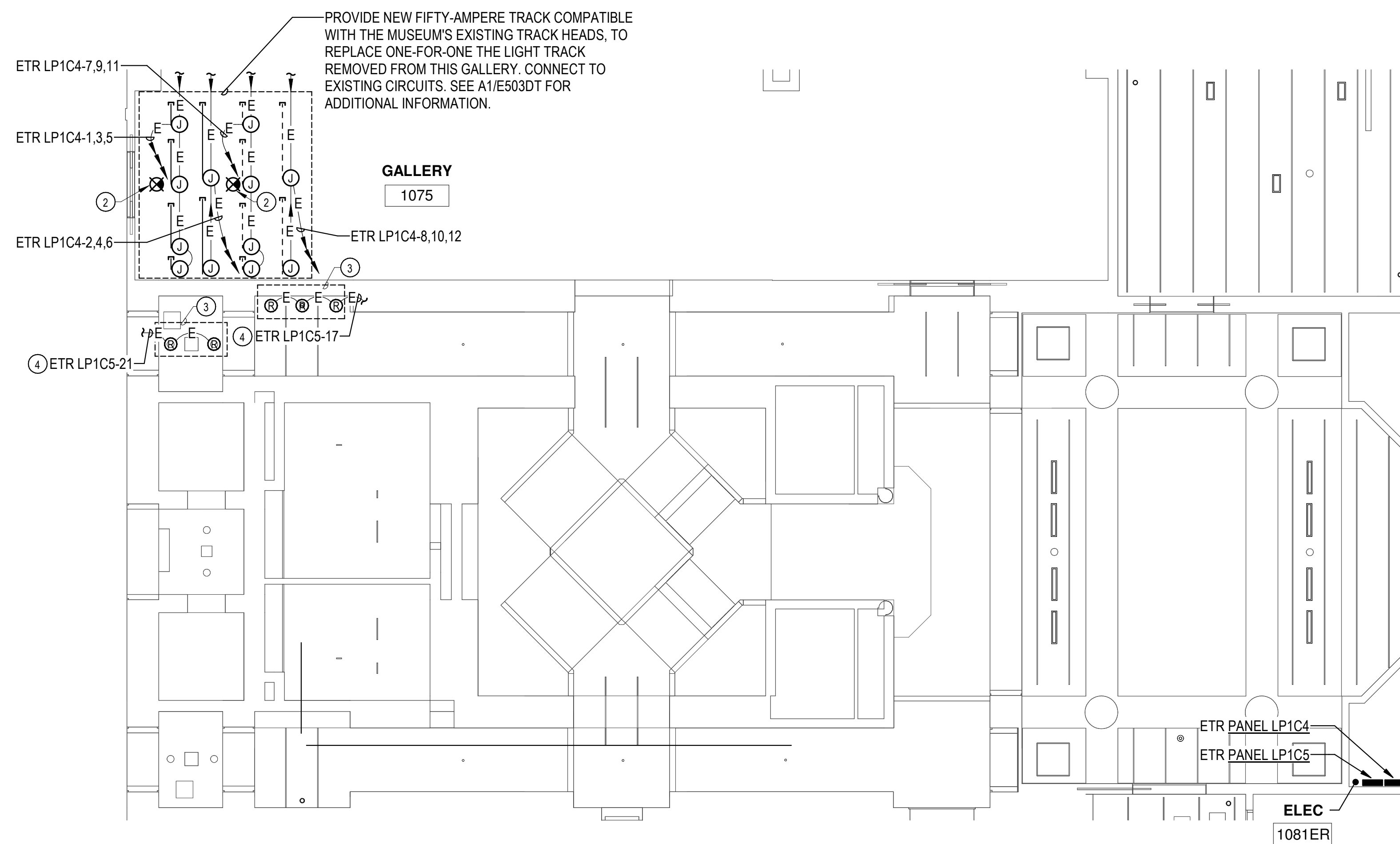
DISCIPLINE TYPE SEQUENCE DRAWING TYPE



B2 LIGHTING PLAN
 SCALE = 1/4" = 1'-0"



CASH ROOM LIGHTING PLAN
 SCALE = 1/4" = 1'-0"



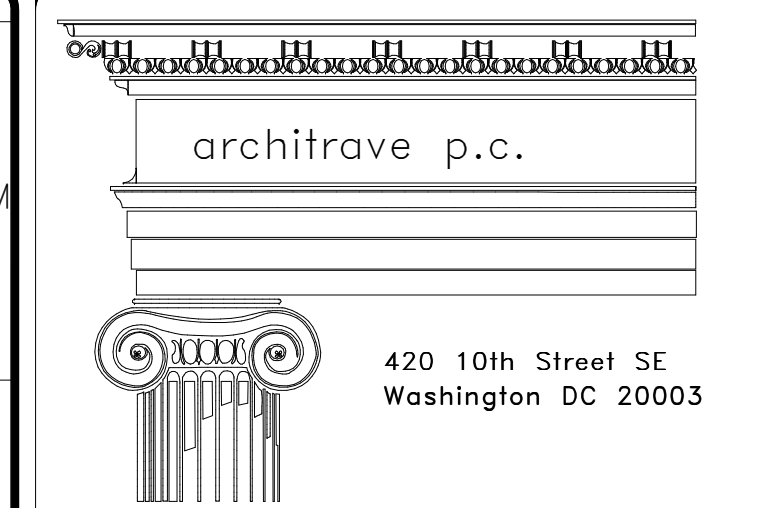
B1 LIGHTING PLAN
 SCALE = 1/8" = 1'-0"

GENERAL NOTES:

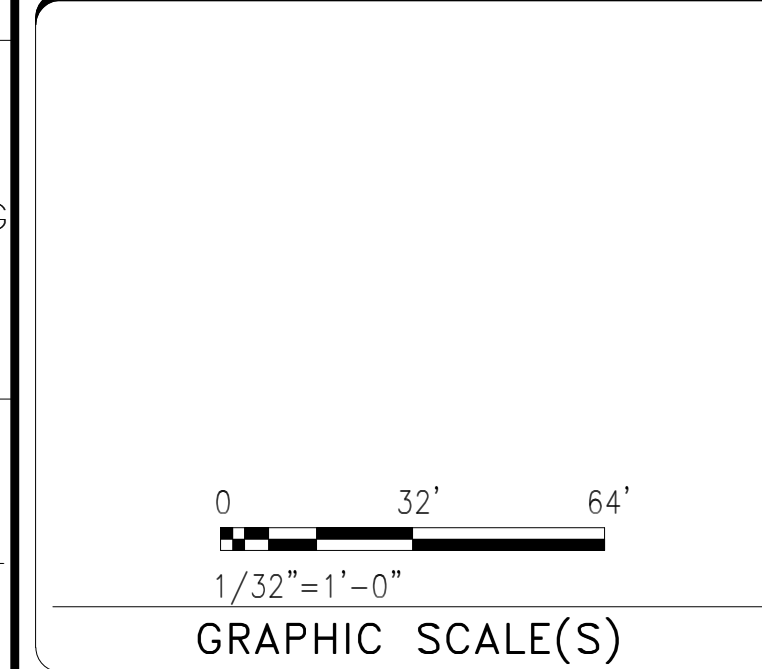
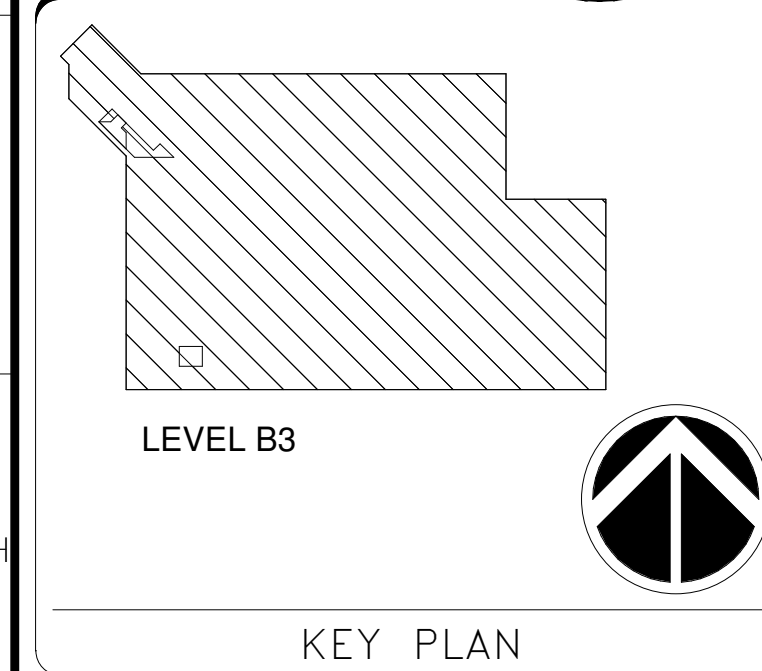
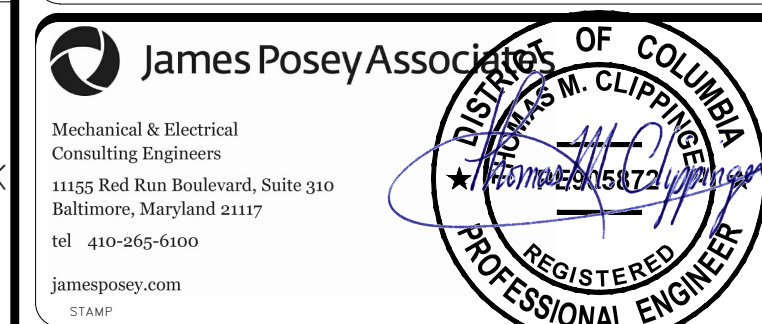
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SPECIFIC NOTES:

- 1 CUT AND PATCH WALL AS NECESSARY TO INSTALL COMBINATION WALL SWITCH & OCCUPANCY SENSOR.
- 2 INSTALL EXIT SIGN PREVIOUSLY REMOVED AT THIS LOCATION. CONNECT TO EXISTING WIRING ABOVE CEILING PREVIOUSLY SERVING SIGN. PROTECT CONTINUITY TO OTHER LOADS ON CIRCUIT. CIRCUIT IS ELP1A-30 PER THE RECORD DRAWINGS. DOCUMENT CIRCUIT ON THIS PROJECT'S RECORD DRAWINGS.
- 3 INSTALL LUMINAIRES PREVIOUSLY REMOVED AT THIS LOCATION. CONNECT TO EXISTING WIRING ABOVE CEILING PREVIOUSLY SERVING LUMINAIRES. PROTECT CONTINUITY TO OTHER LOADS ON CIRCUIT INDICATED. DOCUMENT CIRCUIT ON THIS PROJECT'S RECORD DRAWINGS.
- 4 CIRCUIT NUMBER IS BASED ON THE RECORD DRAWINGS. CONFIRM.
- 5 PROVIDE WIRING NEEDED TO ALLOW DEVICE TO CONTROL THE LIGHTING IN THE ROOM.



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BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	LIGHTING PLAN BASEMENTS
WORKING STAFF	MRH MRH TMC

SHEET NO. **EL103LP**
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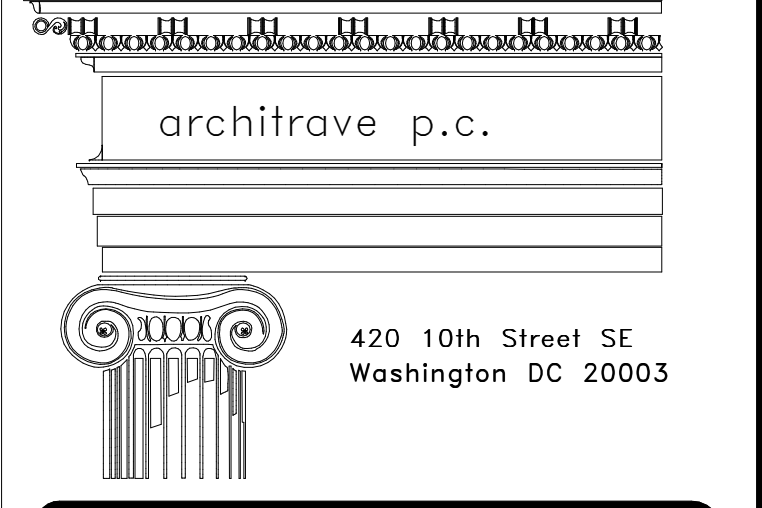
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GENERAL NOTES:

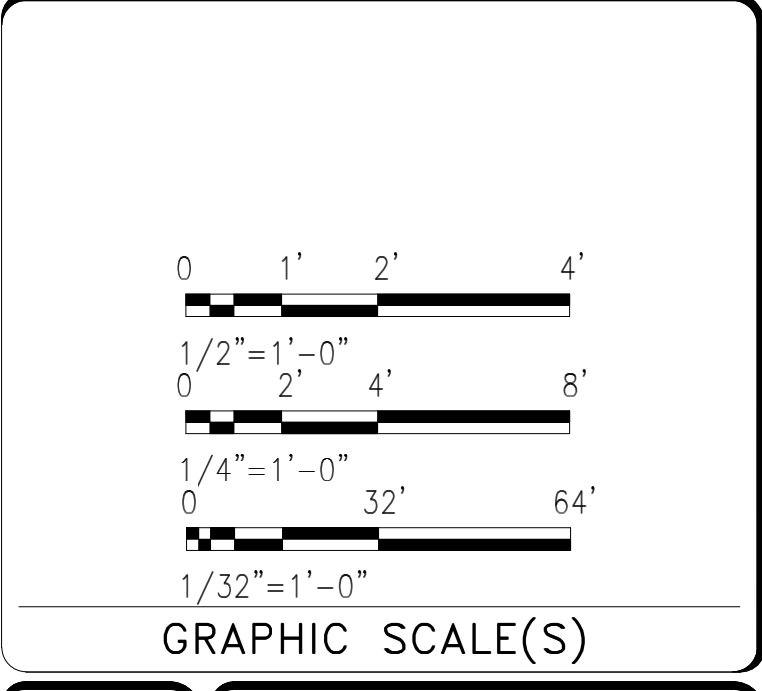
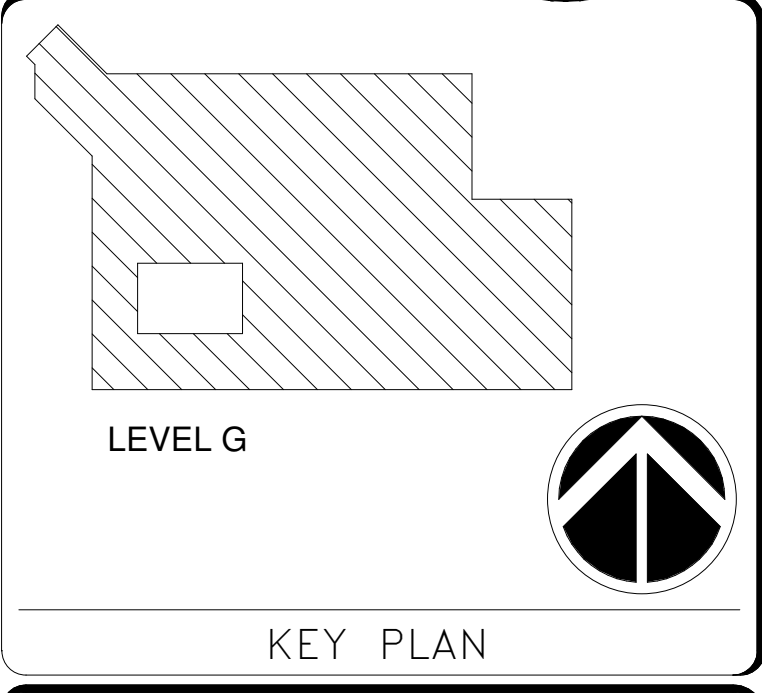
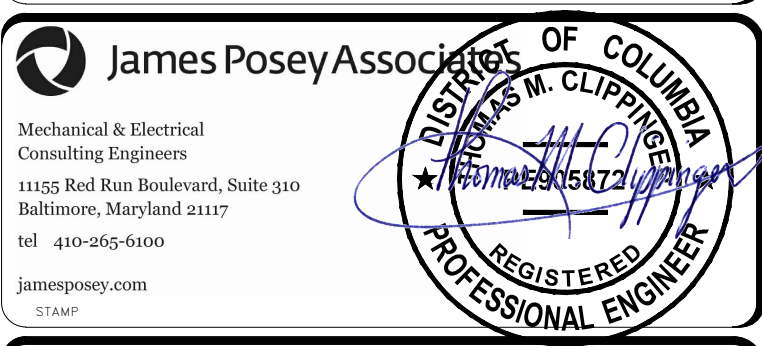
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SPECIFIC NOTES:

- 1 POWER METER SC BELOW PANEL LPGA.
- 2 PROVIDE NEW PANELBOARD INTERIOR IN EXISTING ENCLOSURE. PROVIDE CUSTOM COVER. CONNECT TO EXISTING TO REMAIN FEEDER. CONNECT EXISTING TO REMAIN CIRCUIT CONDUCTORS TO NEW CIRCUIT BREAKERS.
- 3 SPLICE BOX SB1. SEE DETAIL G1/E-501DT. PROVIDE NEW WIRING TO CIRCUIT BREAKERS IN PANEL LPGA. USE TERMINAL STRIPS FOR SPLICES. RACEWAYS FOR NEW PANEL LPGA CIRCUITS SHALL TERMINATE IN SIDES OF COVER.
- 4 TWO-SECTION PANEL MOUNTED IN SIDE OF COUNTER. PROVIDE CUSTOM ACCESS PANEL IN END OF CAFE COUNTER TO CONCEAL PANELBOARD.
- 5 EXISTING TO REMAIN FLOOR BOX (TYPICAL UNLESS OTHERWISE NOTED). PROVIDE NEW #12 CONDUCTORS, RECEPTACLES, GASKETS, AND BRASS COVERS AS NEEDED TO RESTORE FLOOR OUTLET TO ORIGINAL OPERATION.
- 6 PROVIDE ARC FAULT CIRCUIT INTERRUPTER(S) BETWEEN CIRCUIT BREAKER(S) IN PANEL LP1C1 (IN THE FIRST BASEMENT LEVEL) AND THE FLOOR OUTLETS IN THE GROUND FLOOR.
- 7 NEMA L6-30R RECEPTACLE FOR ESPRESSO MACHINE. MOUNT FOUR INCHES BELOW COUNTERTOP.
- 8 NEMA 6-30R RECEPTACLE FOR RAPID COOK OVEN. MOUNT EIGHT INCHES ABOVE COUNTERTOP.
- 9 SPLICE BOX SB2 WITH LIGHTING CONTROLS (BLUETOOTH CONTROLLER, BLUETOOTH GATEWAY, GATEWAY POWER SUPPLY, AND FIRE ALARM INTERFACE) ABOVE IN LIGHTING CABINET SC. SEE ELEVATION H6/E501DT.
- 10 4" X 4" X 2-1/8"D. MOUNT TO BACK OF COUNTER, 6" ABOVE COUNTER FLOOR. LABEL "SPARE RACEWAY TO PANEL LPGK".
- 11 EXISTING TO REMAIN FLOOR BOX IN CAFE WORKSPACE. PROVIDE NEW #12 CONDUCTORS, GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLES, GASKETS, AND BRASS COVERS AS NEEDED TO RESTORE FLOOR OUTLET TO ORIGINAL OPERATION.
- 12 1/2" METAL-CLAD CABLE TO RECEPTACLE AT OTHER END OF COUNTER.
- 13 PROVIDE FACEPLATE WITH ONE RECEPTACLE LABELED "REFRIGERATED CASE"; THE OTHER, "CONDENSATE PAN HEAT".



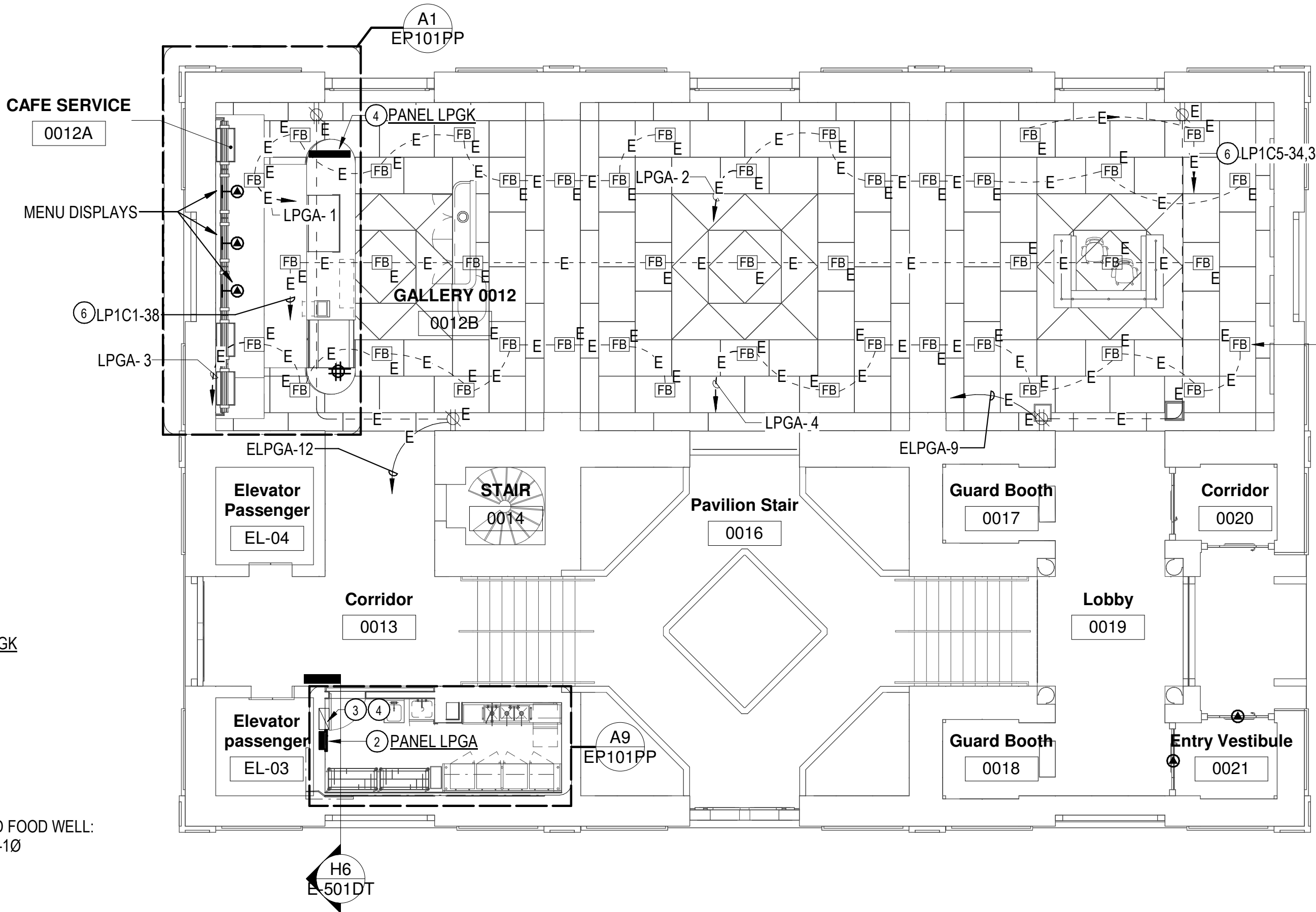
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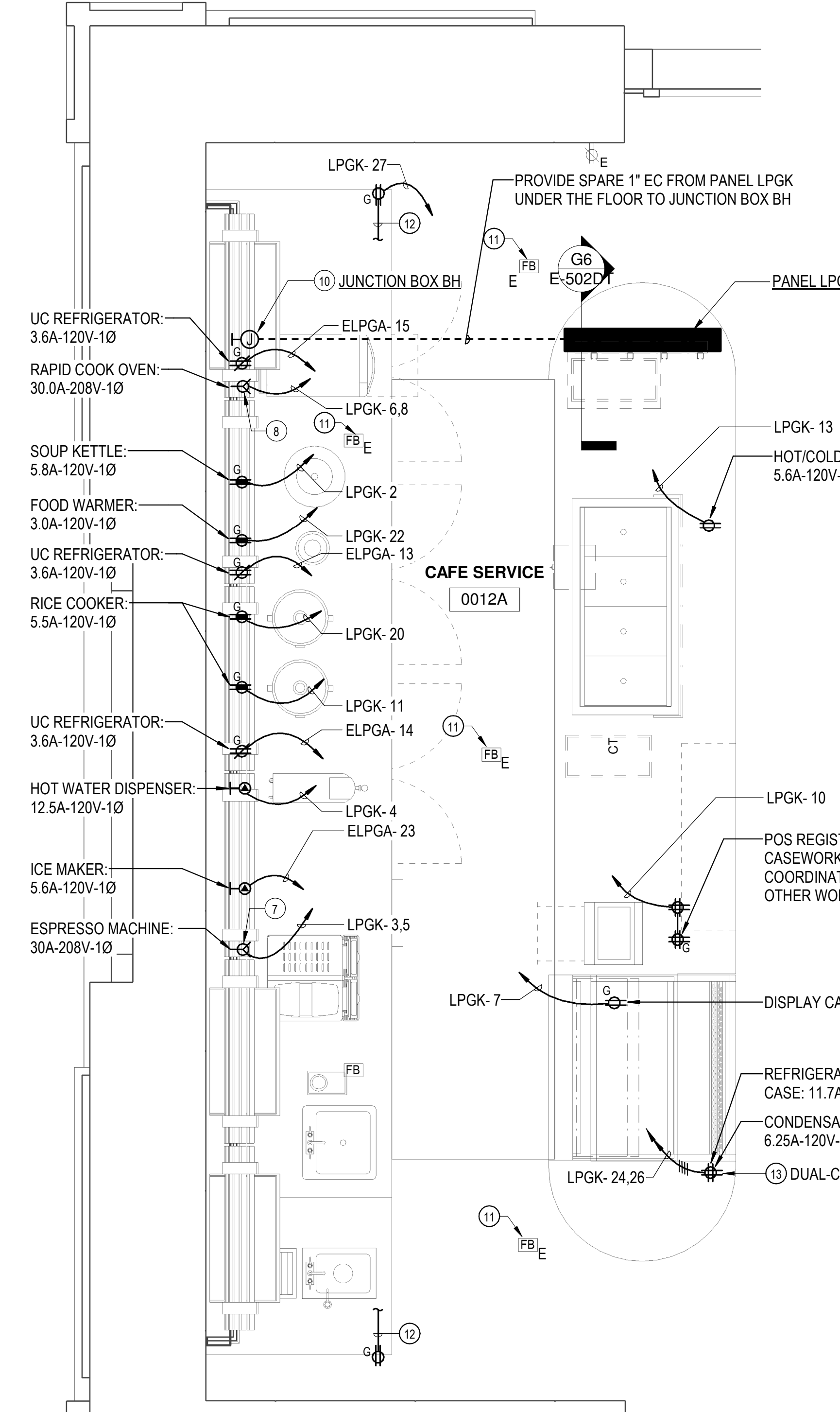
DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	REVISION DESCRIPTION	

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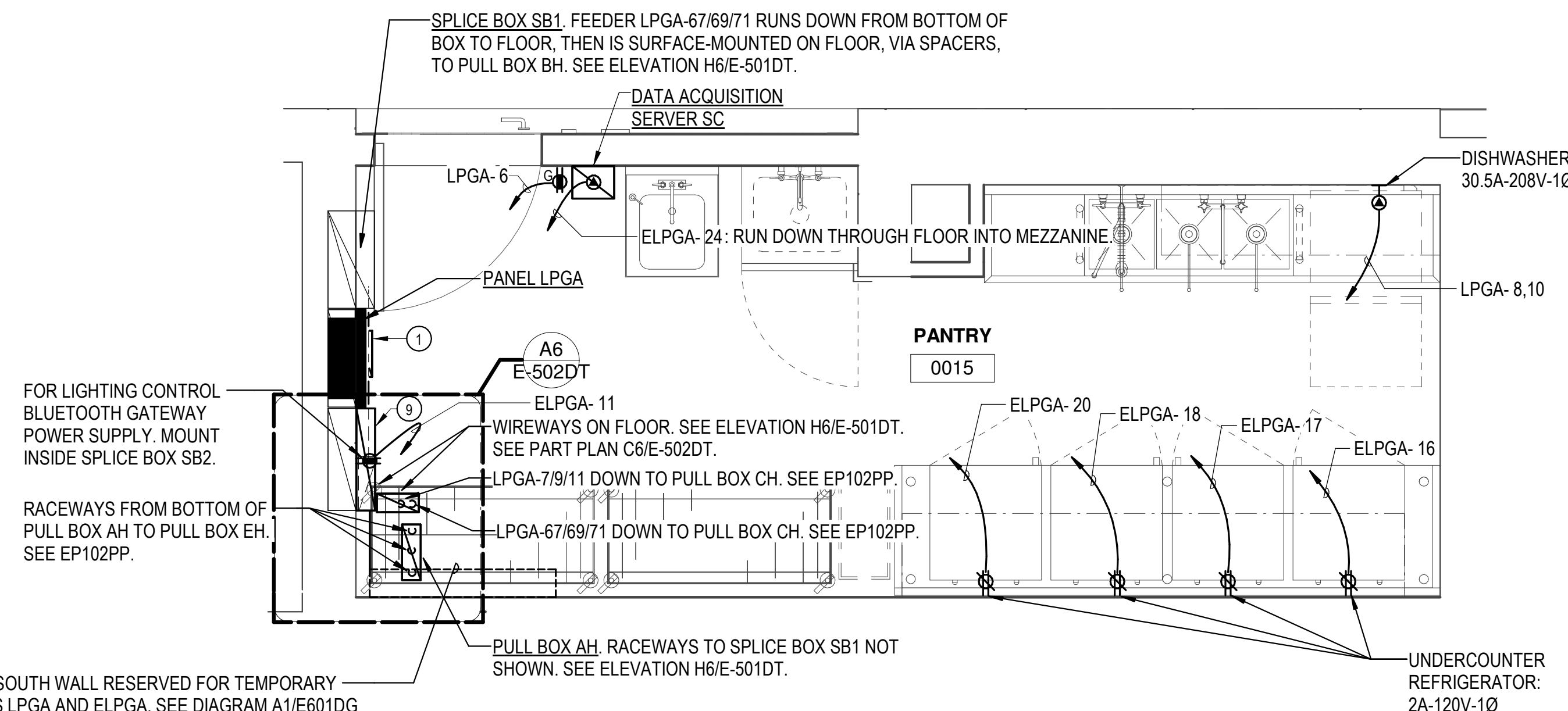
DESIGNED NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	POWER PLAN GROUND
WORKING STAFF	MRH MRH TMC
SHEET NO.	68 of 103
DISCIPLINE	TYPE SEQUENCE DRAWING TYPE



GROUND LEVEL POWER PLAN
SCALE = 1/8" = 1'-0"

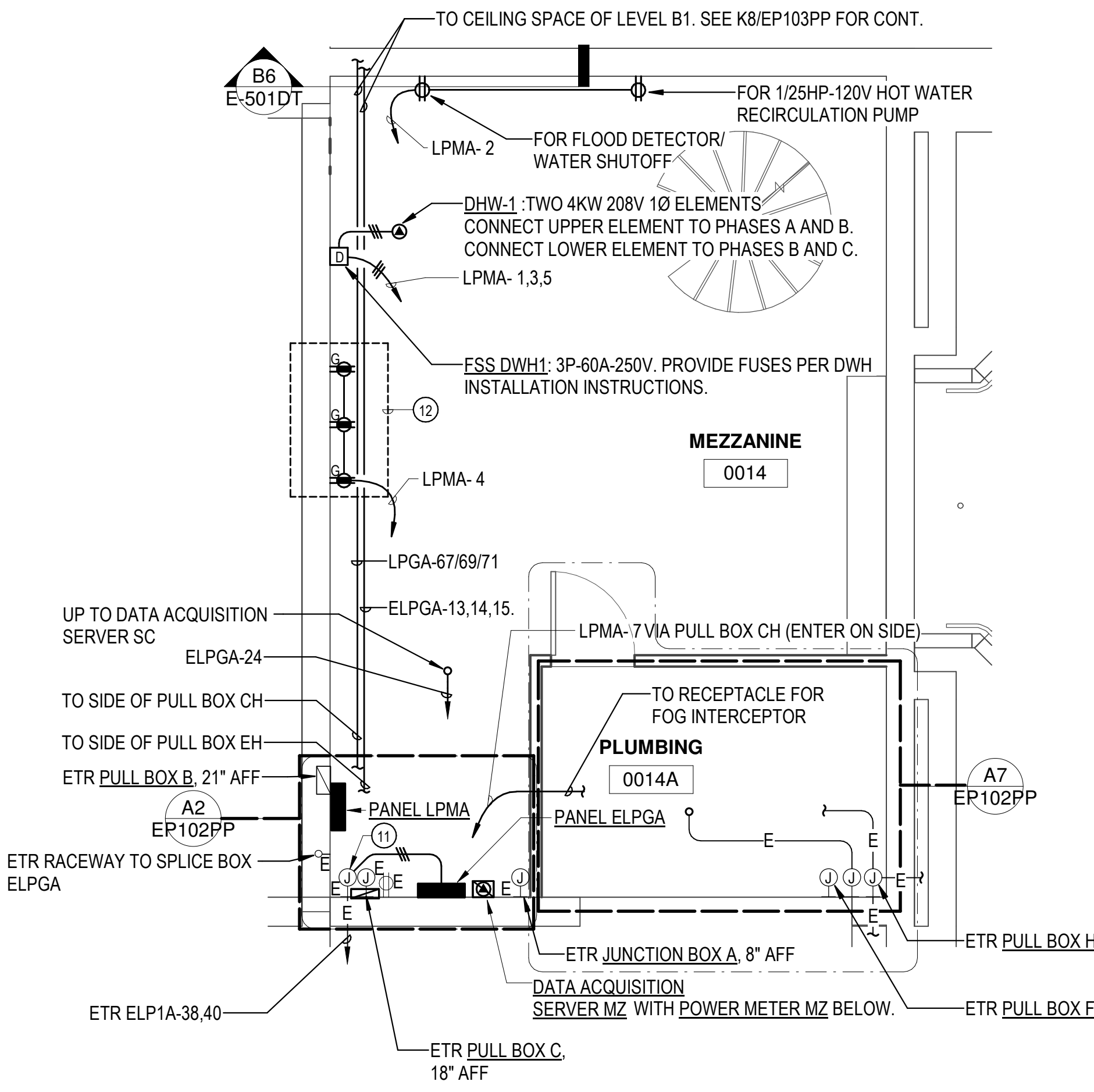


POWER PLAN COUNTERS
SCALE = 1/2" = 1'-0"

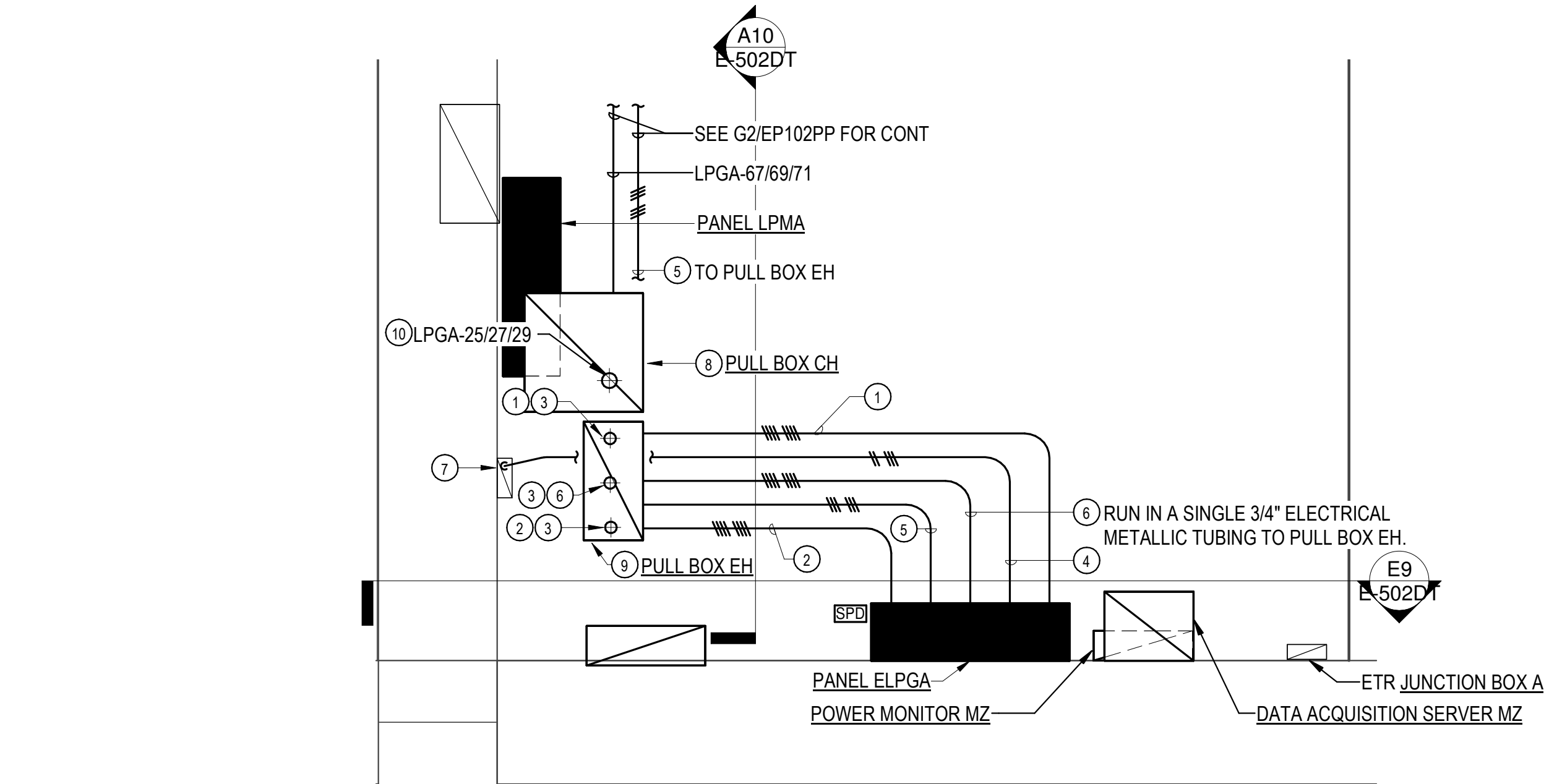


POWER PLAN PANTRY
SCALE = 1/2" = 1'-0"

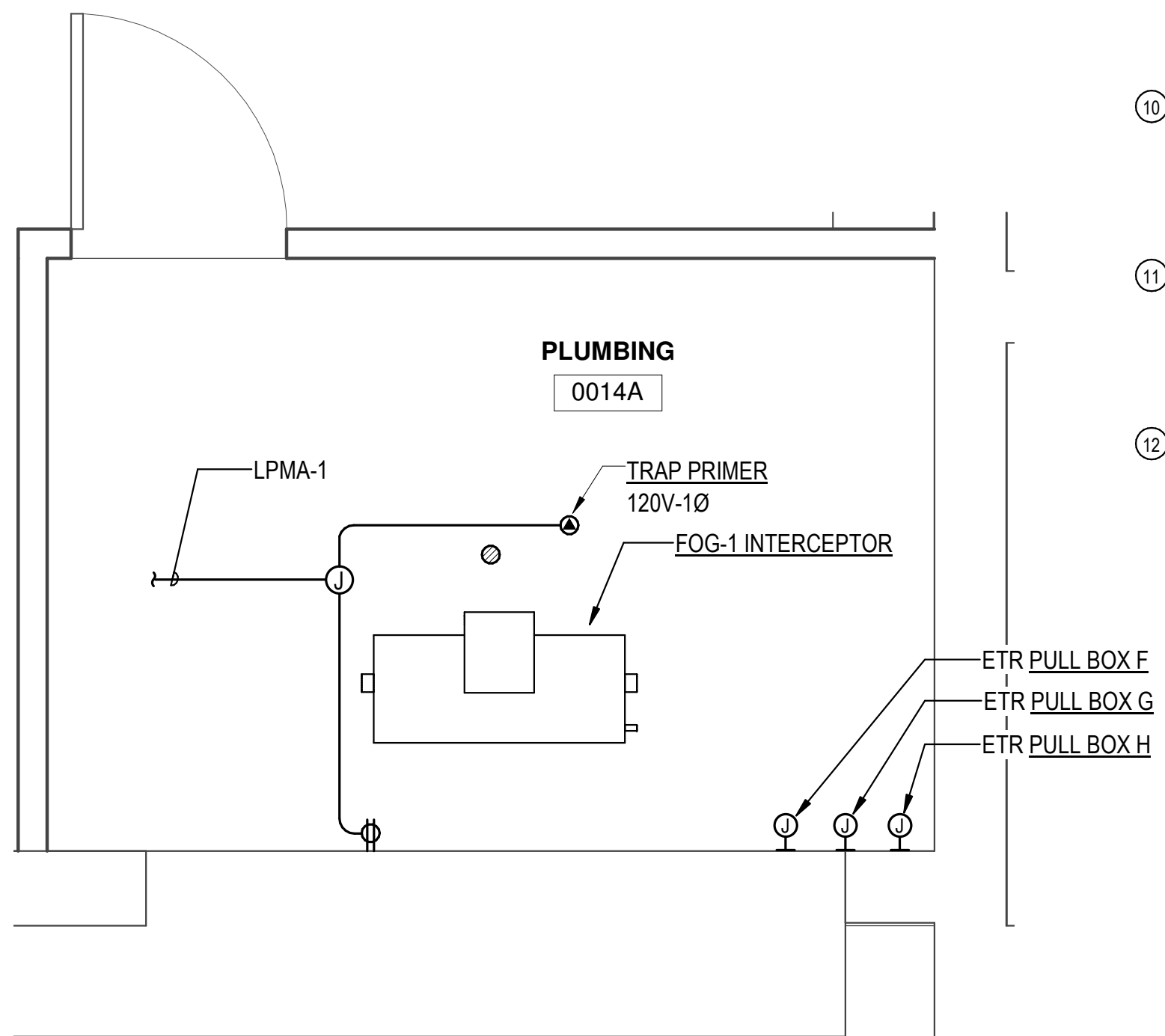
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G2 MEZZANINE POWER PLAN
 EP102PP SCALE = 1/4" = 1'-0"



A2 MEZZANINE SW CORNER POWER
 EP102PP SCALE = 1" = 1'-0"



A7 PLUMBING 0014A POWER
 EP102PP SCALE = 1/2" = 1'-0"

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SPECIFIC NOTES:

- 1 CIRCUITS ELPGA-1, 3, 5, AND 7: FOUR #10 ENERGIZED CONDUCTORS, FOUR #10 NEUTRAL CONDUCTORS, AND ONE #12 EQUIPMENT GROUNDING CONDUCTOR IN A SINGLE 1" EMT. RUN THROUGH PULL BOX EH.
- 2 CIRCUITS ELPGA-2, 4, 6, AND 9: FOUR #10 ENERGIZED CONDUCTORS, FOUR #10 NEUTRAL CONDUCTORS, AND ONE #12 EQUIPMENT GROUNDING CONDUCTOR IN A SINGLE 1" EMT. RUN THROUGH PULL BOX EH.
- 3 1" STAINLESS STEEL ELECTRICAL METALLIC TUBING RACEWAY UP TO PULL BOX AH IN PANTRY. SEE A9/EP101PP. LOCATION OF RACEWAY UP THROUGH SLAB IS DIAGRAMMATIC. COORDINATE WITH LOCATION OF BEAMS. PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO WORK.
- 4 CIRCUITS ELPGA-8/10 AND ELPGA-12. PROVIDE 3#6 FOR ELPGA-8/10. PROVIDE TWO #12 FOR ELPGA-12. PROVIDE ONE COMMON #10 EQUIPMENT GROUNDING CONDUCTOR. PROVIDE 3/4" ELECTRICAL METALLIC TUBING TO EXISTING-TO-REMAIN JUNCTION BOX. DO NOT RUN THROUGH PULL BOX EH.
- 5 ELPGA-13, 14, 15, AND 25 IN ONE 3/4" ELECTRICAL METALLIC TUBING.
- 6 CIRCUIT ELPGA-11, 16, 17, 18, AND 20. RUN THROUGH PULL BOX EH.
- 7 EXISTING PULL BOX FORMERLY FOR ELP1A-38/40. LABEL BOX WITH NAMES OF NEW CIRCUITS. DO NOT SPLICE CONDUCTORS IN BOX. PROVIDE CONTINUOUS CONDUCTORS FOR ELPGA-8/10 AND ELPGA-12 FROM PANEL ELPGA TO SPLICE BOX SB2 THROUGH EXISTING-TO-REMAIN PULL BOX AND IN-WALL RACEWAY.
- 8 PULL BOX CH: ONE FOOT X ONE FOOT X ONE FOOT. FRONT FACES EAST. MOUNT UNDER BEAM. SEE ELEVATION A10/E502DT.
- 9 PULL BOX EH: ONE FOOT HIGH X ONE FOOT WIDE X SIX INCHES DEEP. FRONT FACES EAST. MOUNT ON METAL CHANNEL SUPPORTED FROM STRUCTURE. LABEL BOX WITH NAMES OF CIRCUITS. DO NOT SPLICE CONDUCTORS IN BOX. PROVIDE CONTINUOUS CONDUCTORS FOR ELPGA-8/10 AND ELPGA-12 FROM PANEL ELPGA TO SPLICE BOX SB2 THROUGH PULL BOX EH, EXISTING-TO-REMAIN PULL BOX AND IN-WALL RACEWAY.
- 10 UP TO WIREWAY BH2 IN PANTRY. SEE A9/EP101PP. USE STAINLESS-STEEL ELECTRICAL METALLIC TUBING. LOCATION OF RACEWAY UP THROUGH SLAB IS DIAGRAMMATIC. COORDINATE WITH LOCATION OF BEAMS. PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO WORK.
- 11 SPLICE NEW CONDUCTORS (3#4, #8 EQUIPMENT GROUNDING CONDUCTOR) TO EXISTING. REMOVE LOCKNUT FOR RACEWAY ENTERING BOX FROM THE SOUTH, AND REPLACE WITH A BONDING BUSHING. BOND BOX TO BUSHING WITH #8 EQUIPMENT GROUNDING CONDUCTOR.
- 12 RECEPTACLES FOR REVERSE OSMOSIS EQUIPMENT. PROVIDE THREE GROUND-FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLES SPACED TWO FEET APART, FORTY-EIGHT INCHES ABOVE FLOOR. COORDINATE LOCATION WITH REVERSE OSMOSIS EQUIPMENT.

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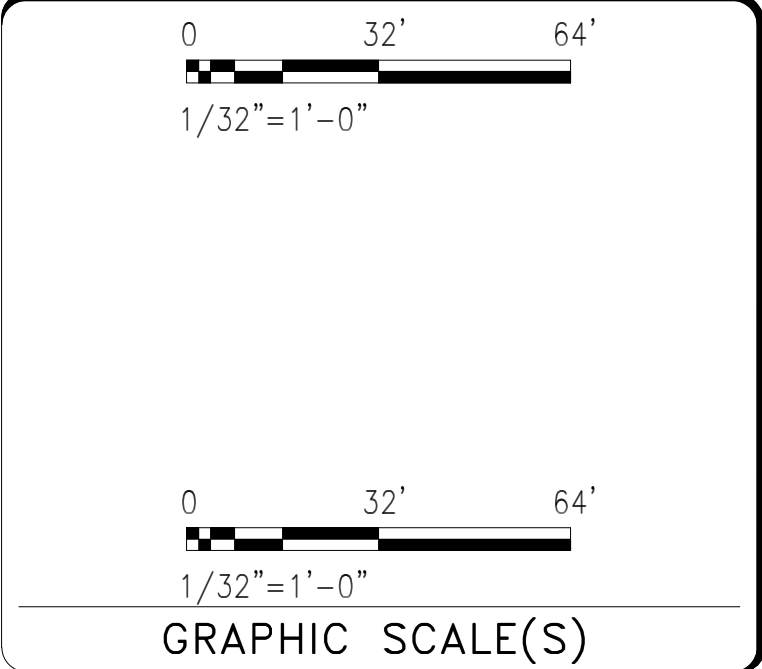
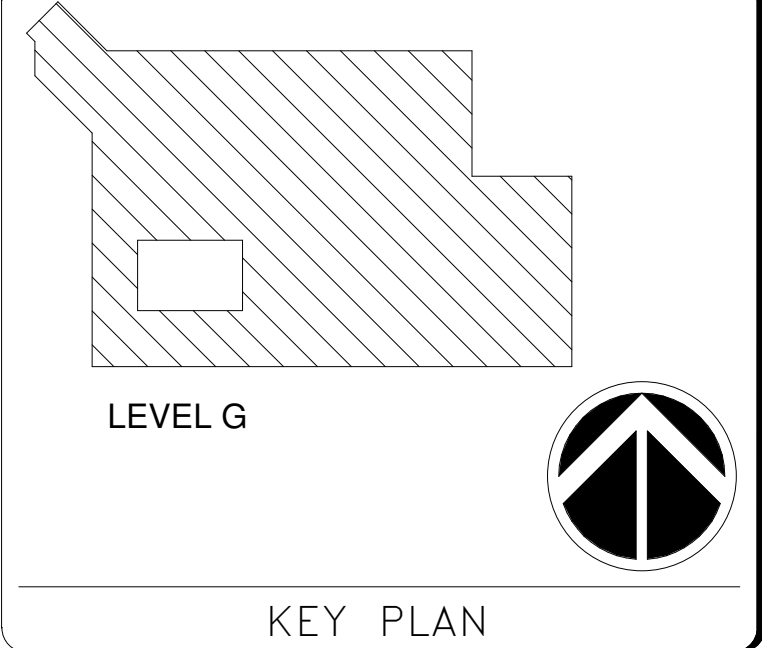
420 10th Street SE
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FOR CONSTRUCTION

James Posey Associates OF COLUMBIA

Mechanical & Electrical Consulting Engineers
 11455 Red Run Boulevard, Suite 310
 Baltimore, Maryland 21117
 tel 410-269-6000
 jamesposey.com

REGISTERED PROFESSIONAL ENGINEER



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REVISION #	DATE	REVISION DESCRIPTION	

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BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	POWER PLAN MEZZANINE
WORKING STAFF	MRH MRH TMC
DESIGNED BY	MRH
DRAWN BY	MRH
CHECKED BY	TMC

SHEET NO. EP102PP
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GENERAL NOTES:

A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

SPECIFIC NOTES:

- ① PANEL IS A FEDERAL PACIFIC BDP-MSP TYPE, 800A, 120/208-VOLT, 3-Ø 4W. PROVIDE FEDERAL PACIFIC 3P100A CIRCUIT BREAKER, MODEL # NEJH233100, WITH DOCUMENTATION THAT IT IS RECONDITIONED AND SUITABLE FOR USE. PROVIDE MOUNTING HARDWARE AS NEEDED TO INSTALL CIRCUIT BREAKER IN PANEL. LABEL "PANEL LPMA". CONNECT TO FEEDER LPMA.
- ② FEEDER LPMA: 4#3, #8 EQUIPMENT GROUNDING CONDUCTOR, 1-1/4" ELECTRICAL METALIC TUBING, BETWEEN PANEL LDPC1 AND FUSE BOX LPMA.
- ③ FUSE BOX LPMA. PROVIDE JUNCTION BOX WITH THREE-POLE FUSE BLOCK FOR SIXTY-AMPERE 250-VOLT FUSES. PROVIDE THREE SIXTY-AMPERE FUSES. CONNECT TO FEEDER LPMA. LABEL BOX "FUSE BOX LPMA: SIXTY-AMPERE FUSES".
- ④ FEEDER LPMA: METAL-CLAD (MC) CABLE: FOUR #3, #6 EQUIPMENT GROUNDING CONDUCTOR. CONNECT TO FUSE BOX LPMA AND PANEL LPMA.

PANEL ELP1A

PANEL IS A FEDERAL PACIFIC NQLP TYPE, 225A, 120/208-VOLT, 3-Ø 4W. PANEL USES WESTINGHOUSE BAB CIRCUIT BREAKERS. EXISTING CIRCUIT BREAKER ELP1A-38.40 SUPPLIES THE FEEDER TO PANEL ELPGA. THE CIRCUIT BREAKER IS A TWO-POLE SIXTY-AMPERE BAB MODEL. THE CONDUCTORS ARE 3#6 AND A #10 EQUIPMENT GROUNDING CONDUCTOR.

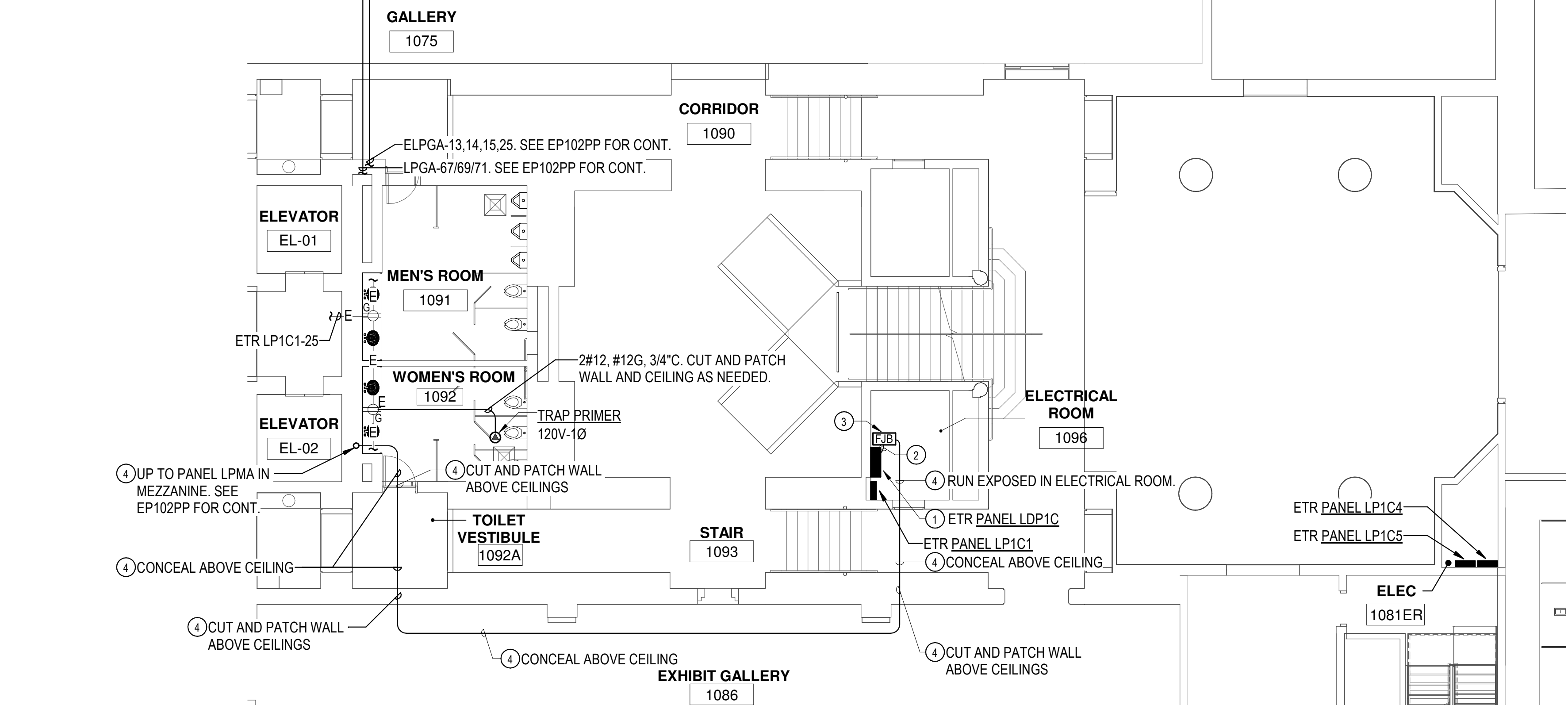
REMOVE THE EXISTING CIRCUIT BREAKER. PROVIDE A TWO-POLE EIGHTY-AMPERE CIRCUIT BREAKER TO FIT THE EXISTING BUS. HAVE A NATIONALLY-RECOGNIZED TESTING LABORATORY ACCEPTABLE TO OSHM LIST THE INSTALLATION. CONNECT THE TWO EXISTING PHASE WIRES TO THE CIRCUIT BREAKER'S OUTPUT TERMINALS.

REMOVE THE ASSOCIATED RACEWAY'S LOCKNUT AND REPLACE IT WITH A GROUNDING BUSHING. BOND THE BUSHING TO THE PANELBOARD'S GROUND BUS WITH A #8 WIRE.

GENERAL ROUTE OF PANEL LPKG AND ELPGA BRANCH CIRCUITS FROM PANEL TO BACK COUNTER. CUT AND PATCH CEILING AS NEEDED TO INSTALL WIRING.

UP TO PANEL LPKG IN CAFE FRONT COUNTER.

UP TO PULL BOX CF IN CAFE FRONT COUNTER.

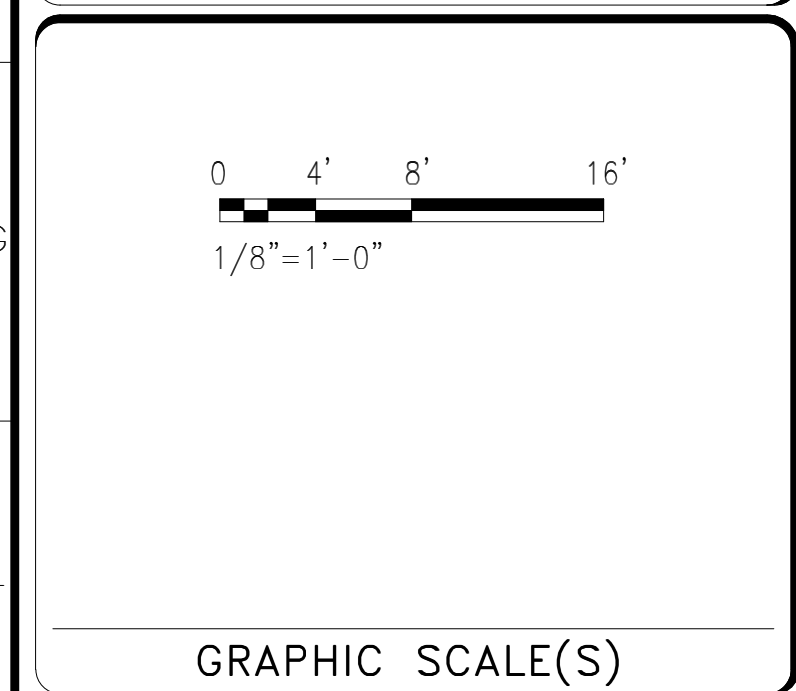
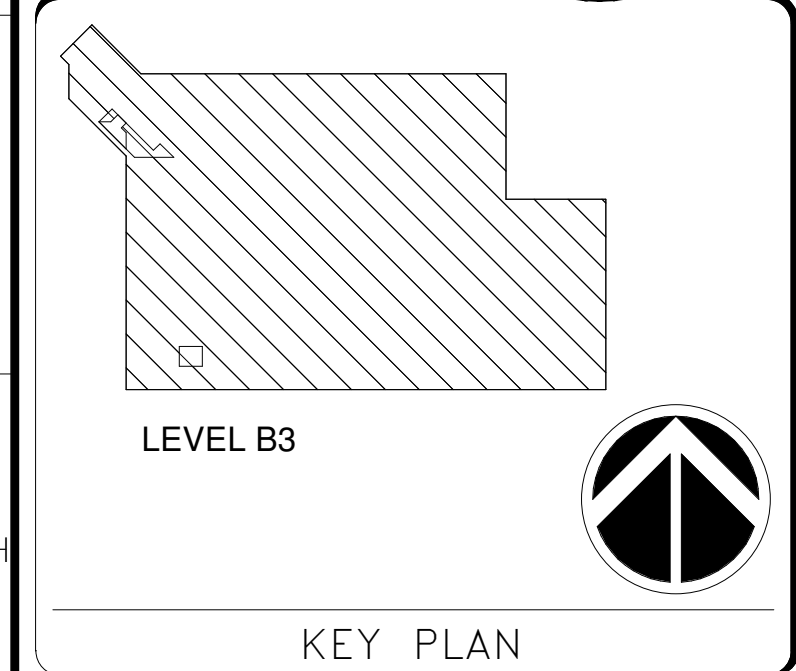


A1 B1 POWER PLAN
SCALE = 1/8" = 1'-0"

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Washington DC 20003

FOR CONSTRUCTION

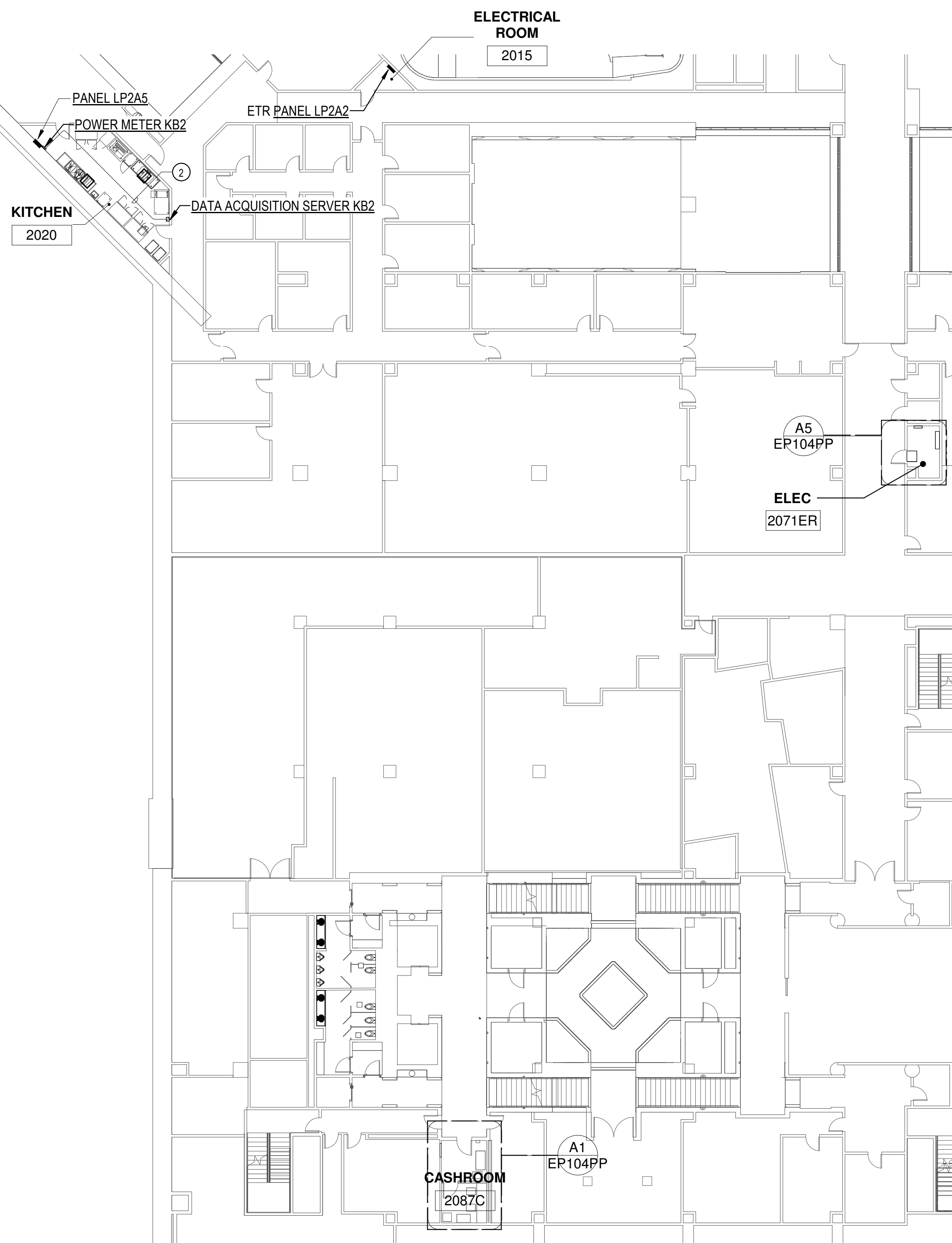
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Mechanical & Electrical Consulting Engineers
1155 Red Rod Boulevard, Suite 310
Baltimore, Maryland 21117
tel 410-265-6000
jamesposey.com



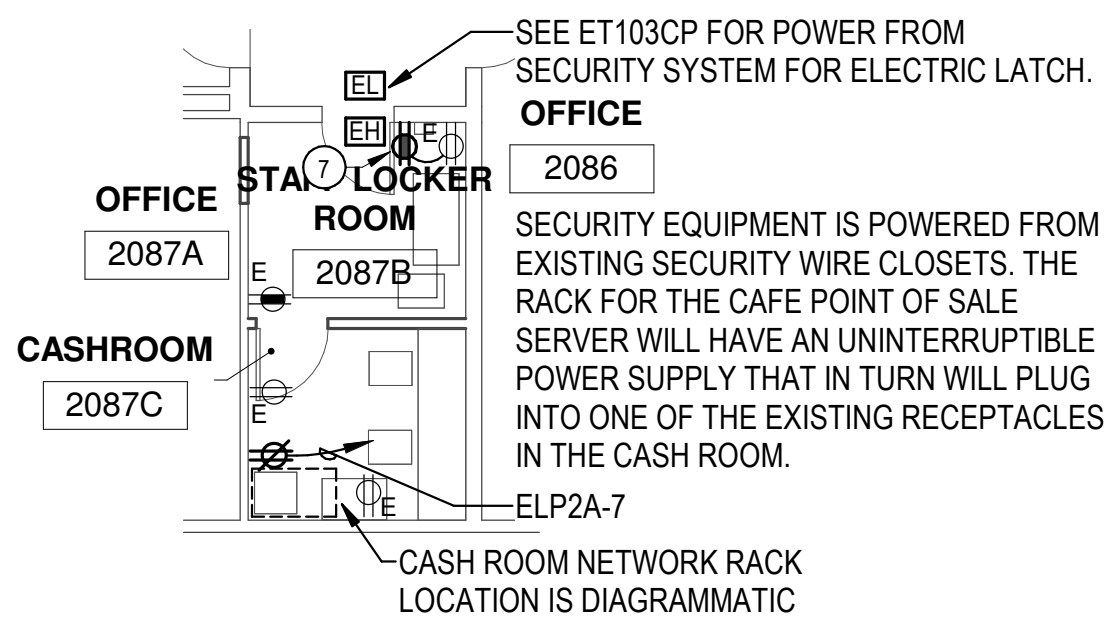
DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	DESCRIPTION	

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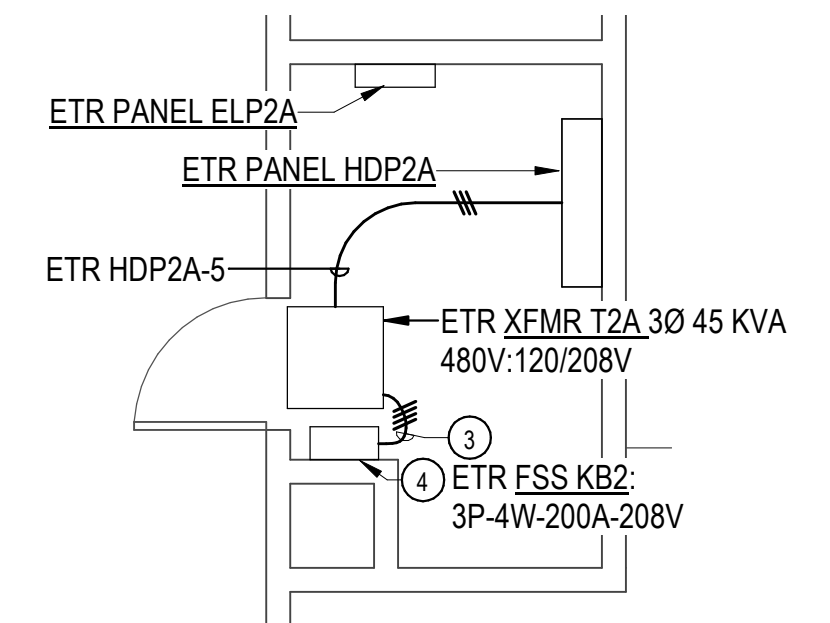
BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	POWER PLAN BASEMENT B1
WORKING STAFF	MRH MRH TMC
SHEET NO.	70 of 103



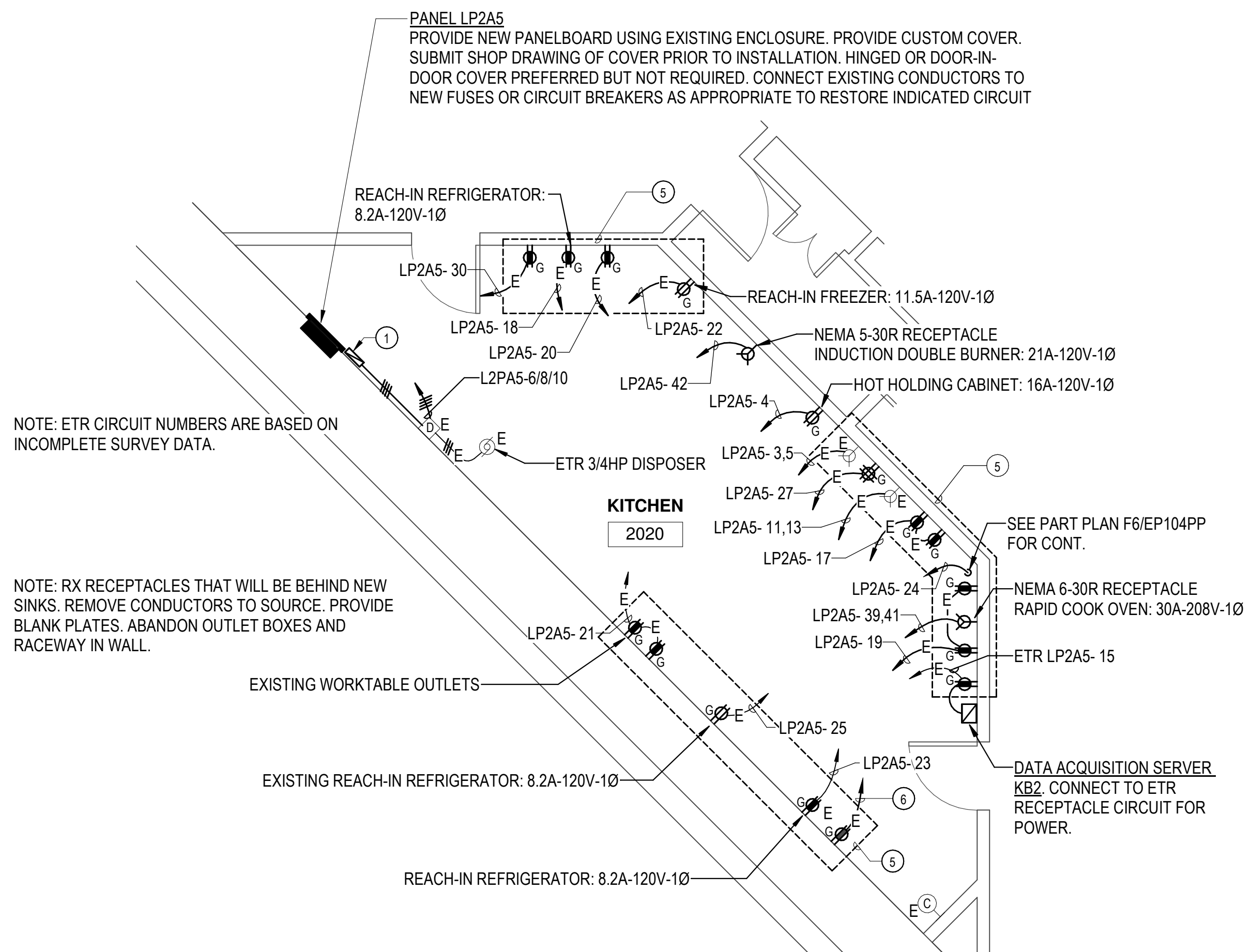
D1 B2 POWER LOCATOR PLAN
 EP104PP SCALE = 1/16" = 1'-0"



A1 POWER PLAN B2 LEVEL CASH ROOM
 EP104PP SCALE = 1/8" = 1'-0"



A5 ELEC ROOM 2071ER
 EP104PP SCALE = 1/4" = 1'-0"



A7 B2 POWER PLAN - KITCHEN
 EP104PP SCALE = 1/4" = 1'-0"

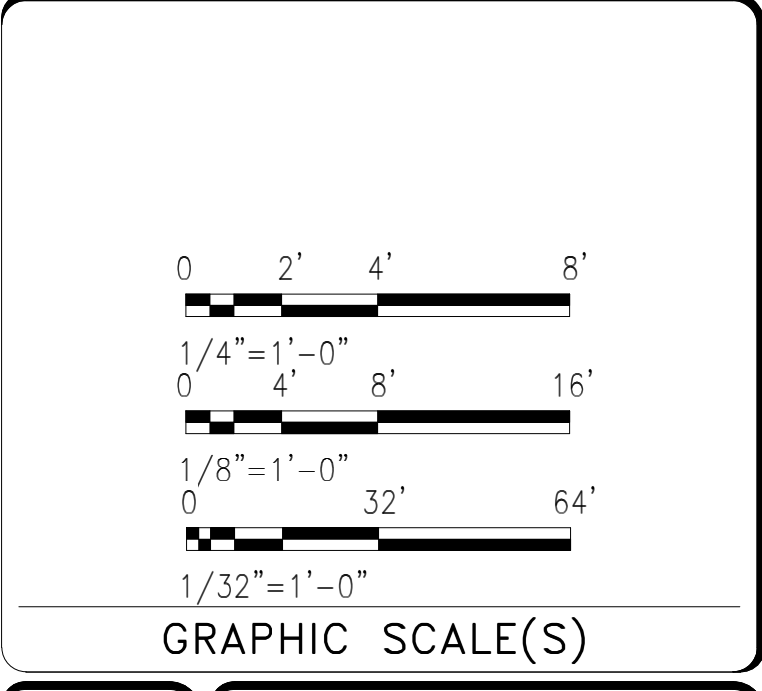
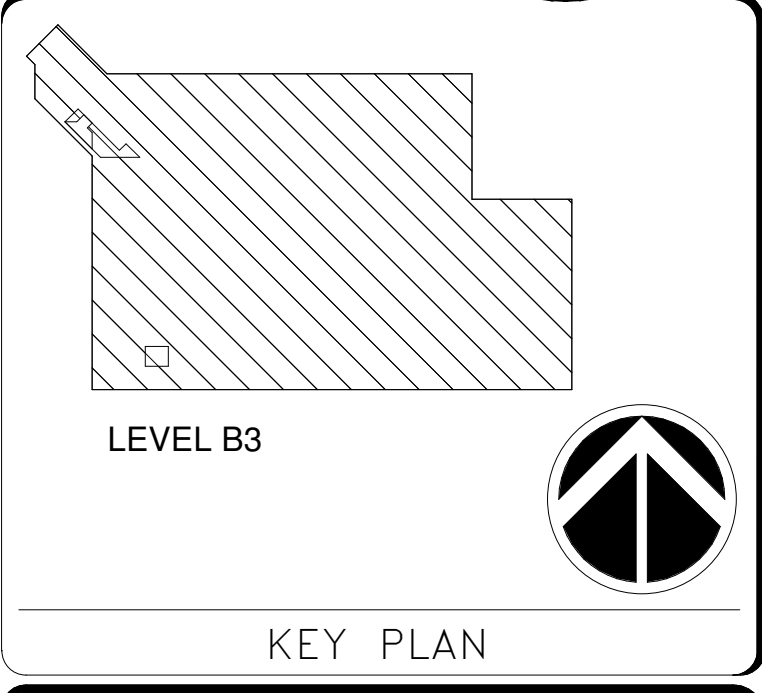
- GENERAL NOTES:**
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- SPECIFIC NOTES:**
- 1 POWER METER KB2. SURFACE-MOUNT NEXT TO PANEL LP2A5. SEE DIAGRAM D7/E601DG.
 - 2 CONCEAL ABOVE CEILING. SURFACE-MOUNT ON WALL.
 - 3 VERIFY EXISTING TRANSFORMER SECONDARY PHASE AND NEUTRAL CONDUCTORS ARE #2 OR LARGER. VERIFY EXISTING SUPPLY SIDE BONDING JUMPER IS #6 OR LARGER. IF CONDUCTORS ARE SMALLER THAN LISTED ABOVE, NOTIFY COTR.
 - 4 VERIFY EXISTING FUSES ARE 125 AMPERES. VERIFY EXISTING LOAD PHASE AND NEUTRAL CONDUCTORS ARE #2 OR LARGER. VERIFY THAT EXISTING LOAD EQUIPMENT GROUNDING CONDUCTOR IS #6 OR LARGER. IF CONDUCTORS OR FUSES ARE SMALLER THAN LISTED ABOVE, NOTIFY COTR.
 - 5 PROVIDE NEMA 5-20R GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES AND PLATES IN EXISTING OUTLET BOXES. CONNECT TO EXISTING CONDUCTORS.
 - 6 CIRCUIT COULD NOT BE IDENTIFIED DURING DESIGN. TRACE CIRCUIT AND NOTE ON RECORD DRAWINGS.
 - 7 ELECTRICAL OUTLET FOR CAFE EMPLOYEE TIMECLOCK. LOCATION IS DIAGRAMMATIC. LOCATE AS DIRECTED BY CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE. CONNECT TO NEARBY RECEPTACLE CIRCUIT WITH TWO #12, #12 EQUIPMENT GROUNDING CONDUCTOR, AND 3/4" RACEWAY. CUT AND PATCH WALL AS NEEDED TO INSTALL WIRING.

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FOR CONSTRUCTION

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 1155 Red Run Boulevard, Suite 310
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 tel 410-269-6000
 jamesposey.com
 01000

James M. CLIPPER
 REGISTERED PROFESSIONAL ENGINEER



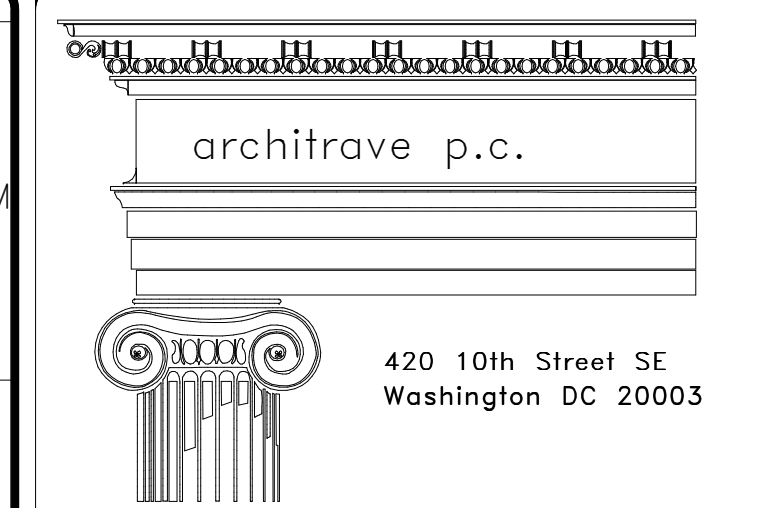
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REVISION #	DATE	REVISION DESCRIPTION	

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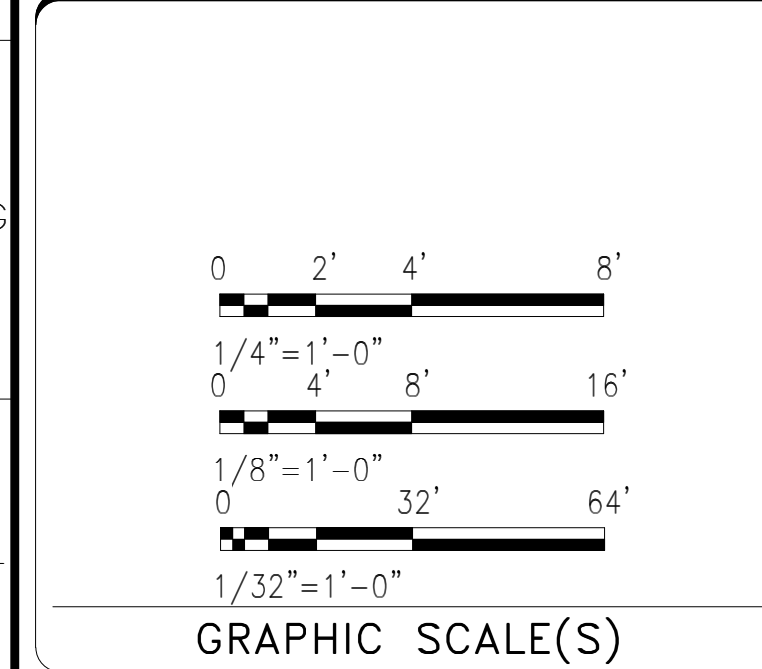
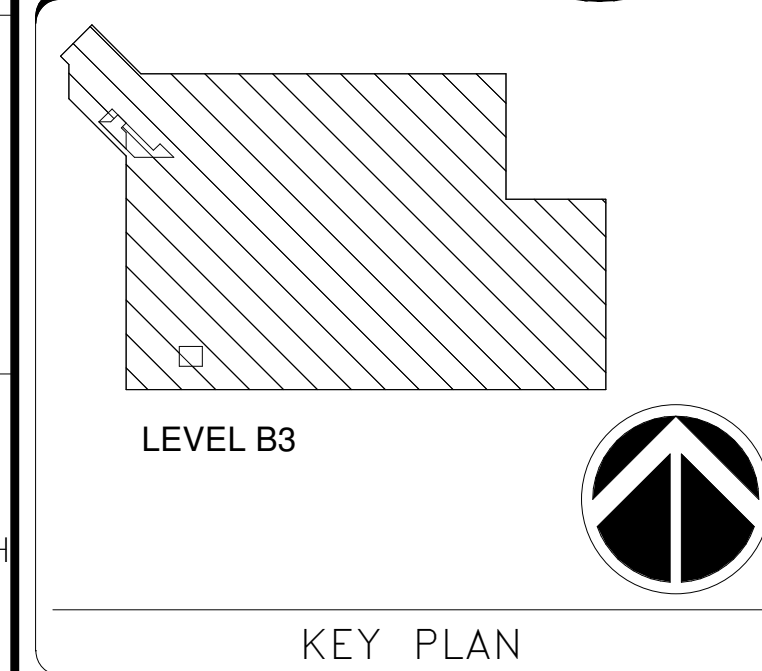
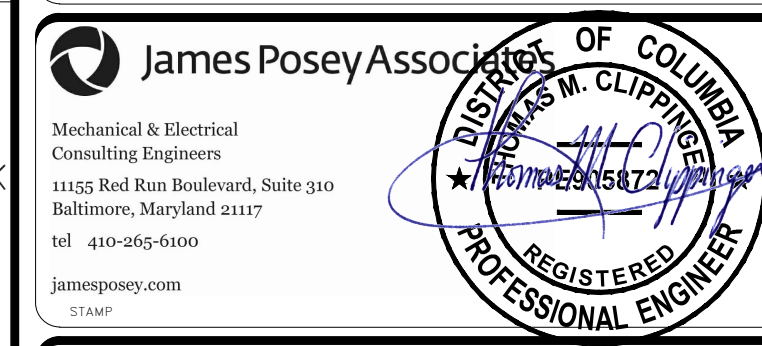
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PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	POWER PLAN BASEMENT B2
WORKING STAFF	MRH MRH TMC
SHEET NO.	71 of 103
DRAWING NO.	EP104PP

GENERAL NOTES:

A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE COITR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.



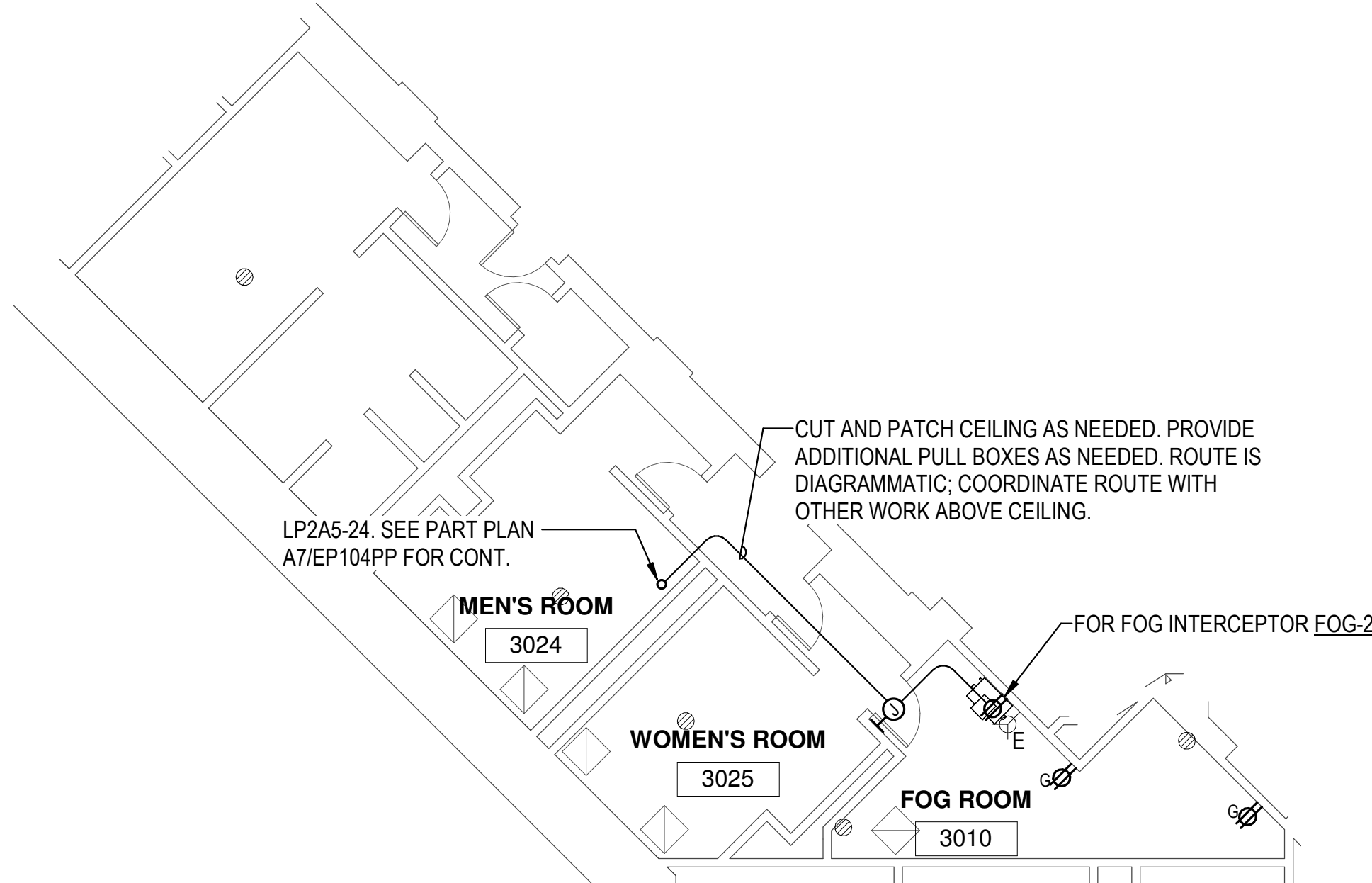
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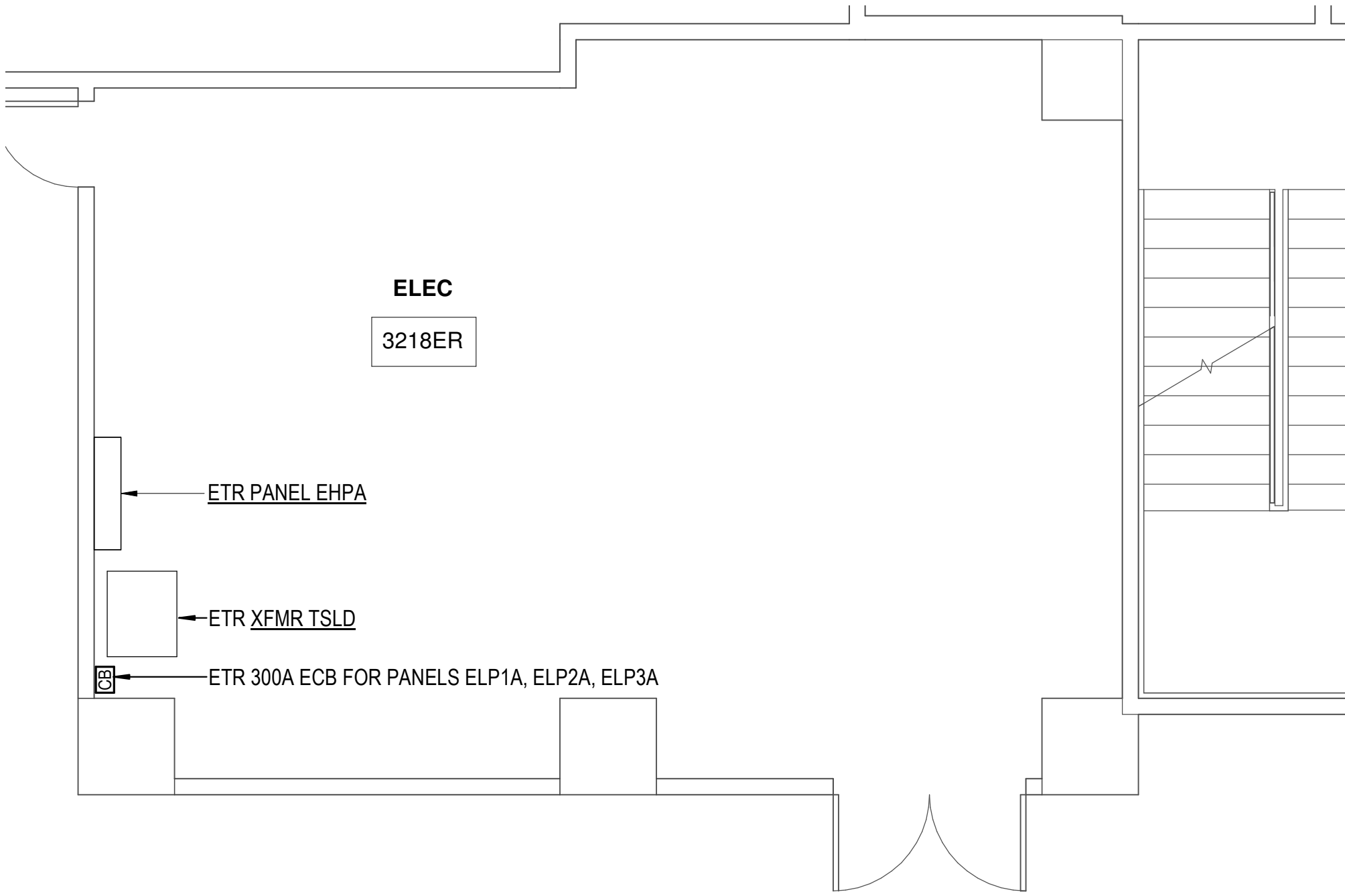
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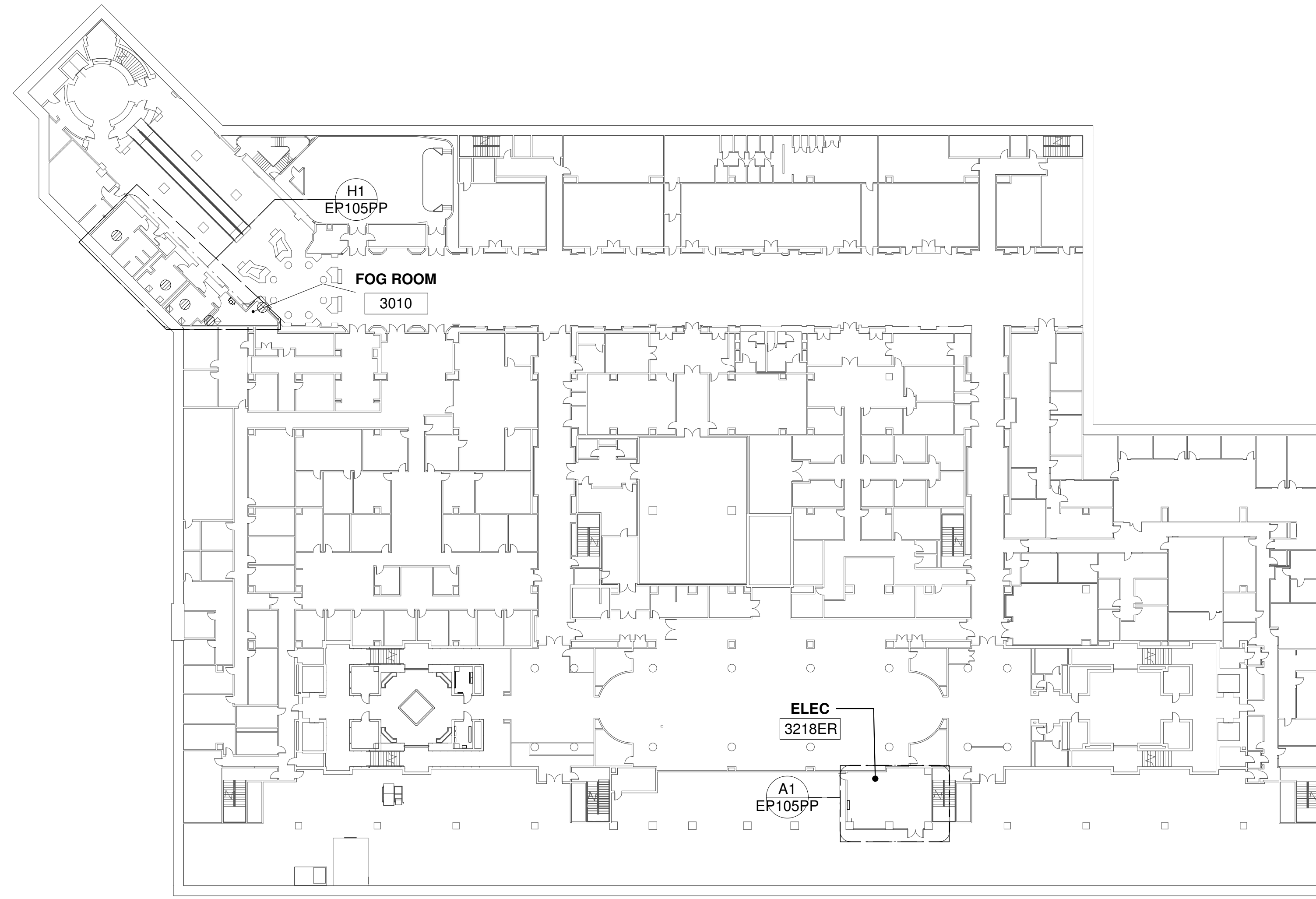
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ADDRESS	12th and Independence Avenue, SW, Washington DC												
PROJECT TITLE	CAFE AT SACKLER PAVILION												
SF PROJECT NUMBER	2209110												
A/E PROJECT NUMBER	1401.54												
DRAWING TITLE	POWER PLAN BASEMENT B3												
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DESIGNED BY	MRH	MRH	TMC										
DRAWN BY													
CHECKED BY													
SHEET NO.	72 of 103												
DRAWING NO.	EP105PP												



H1 FOG-2 POWER, LEVEL B3
 EP105PP SCALE = 1/8" = 1'-0"

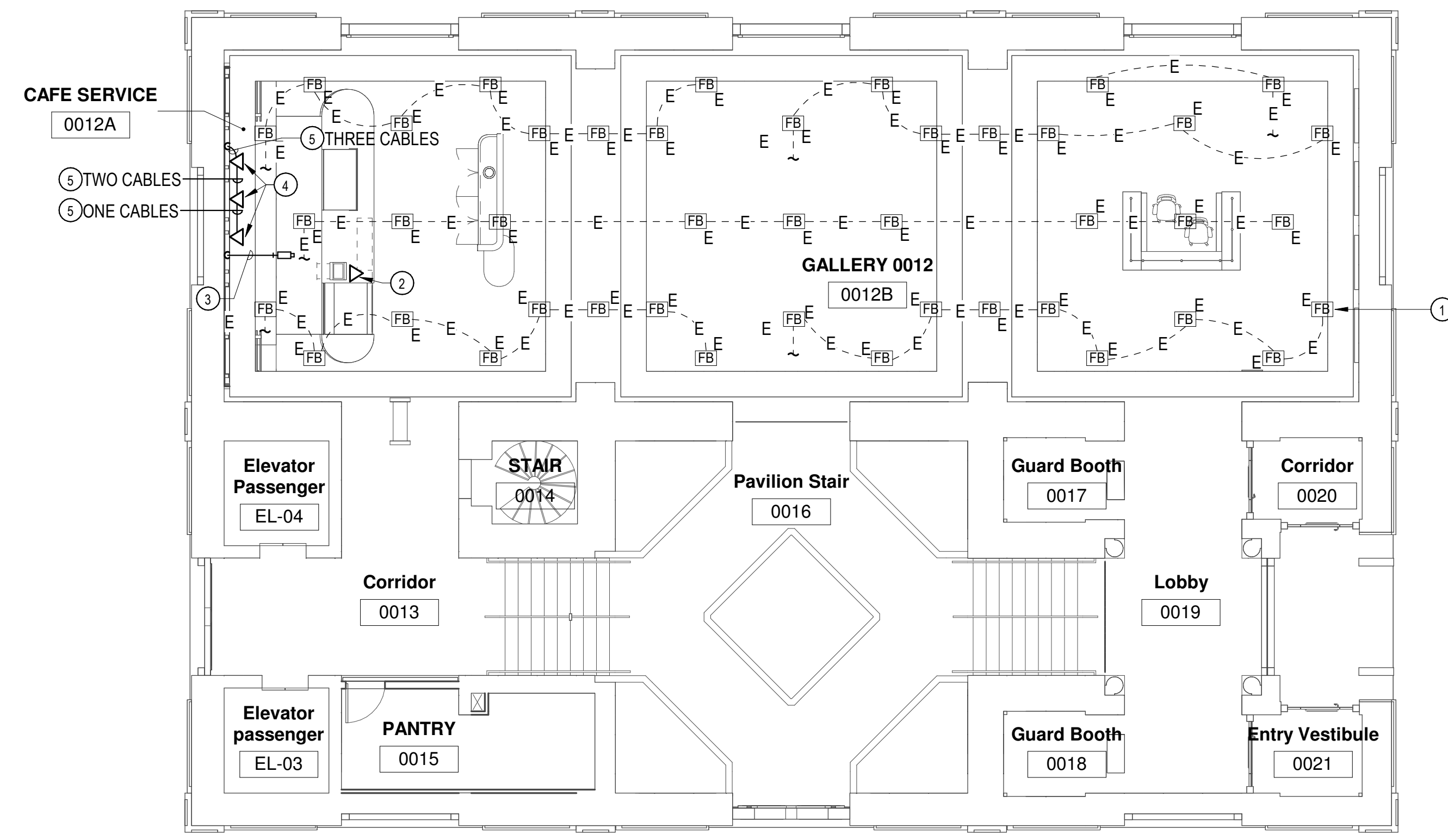


A1 PART PLAN ELEC ROOM 3218ER
 EP105PP SCALE = 1/4" = 1'-0"



A9 B3 POWER LOCATOR PLAN
 EP105PP SCALE = 1/32" = 1'-0"

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D4 **GROUND LEVEL SYSTEMS PLAN**
SCALE = 1/8" = 1'-0"

GENERAL NOTES:

A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

SPECIFIC NOTES:

- 1 EXISTING TO REMAIN FLOOR BOX (TYPICAL). DATA CABLING AND JACKS ARE EXISTING TO REMAIN.
- 2 POINT OF SALE NETWORK CABLE IN 1" ELECTRICAL METALLIC TUBING FROM THE POINT OF SALE REGISTER IN THE CAFÉ, THROUGH THE FLOOR TO THE B1 CEILING SPACE, AND THEN TO CASH ROOM. SEE PART PLAN A4/ET103CP FOR CONTINUATION. CAT 5E CABLE IN SAME RACEWAY FOR CAFE VOICE-OVER-INTERNET PROTOCOL PHONE OUTLET. PROVIDE ONE-GANG OUTLET BOX IN CAFE COUNTER FOR EACH CABLE. COORDINATE WITH OTHER WORK IN CAFE COUNTER. PROVIDE SHOP DRAWINGS FOR REVIEW.
- 3 SECURITY VIDEO NETWORK CABLE IN 1/2" ELECTRICAL METALLIC TUBING FROM CAMERA THROUGH THE FLOOR TO THE B1 CEILING SPACE, AND THEN TO A NEW CASH ROOM. SEE PART PLAN A4/ET103CP FOR CONTINUATION.
- 4 DATA OUTLET FOR MENU VIDEO DISPLAY, LOCATED IN MONITOR MOUNT.
- 5 PROVIDE CAT-6 CABLE(S) INDICATED FROM OUTLETS IN 1/2" ELECTRICAL METALLIC TUBING TO FRONT COUNTER. CABLES WILL THEN CONTINUE IN SAME 1" RACEWAY AS POINT OF SALE AND VOIP CABLES.

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jamesposey.com

REGISTERED PROFESSIONAL ENGINEER

KEY PLAN

LEVEL G

0 32' 64'
1/32" = 1'-0"
GRAPHIC SCALE(S)

DATE	SUBMISSION
07/18/24	Final Construction Documents
REVISION # DATE	REVISION DESCRIPTION

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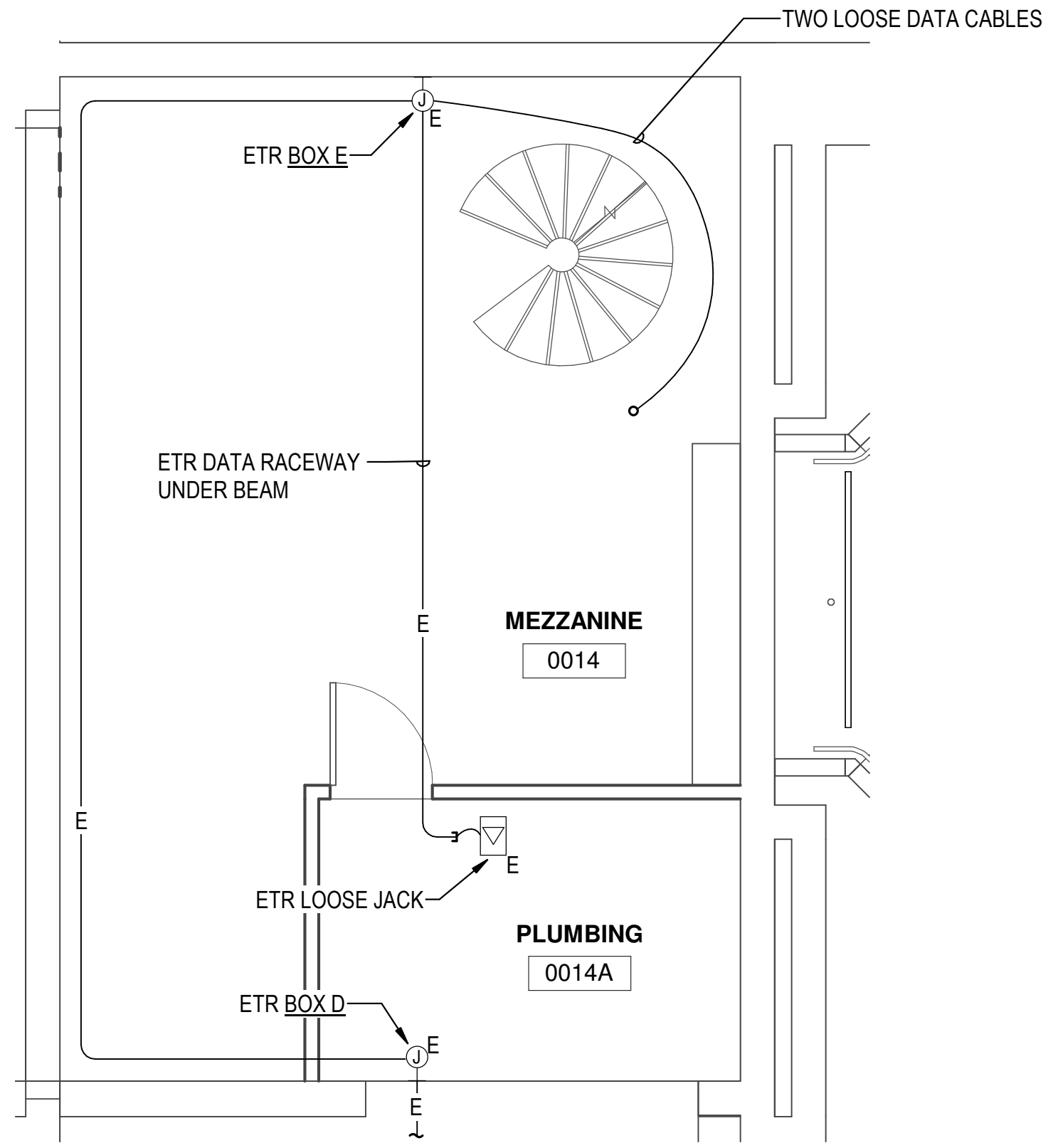
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Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	SYSTEMS PLAN GROUND
WORKING STAFF	MRH MRH TMC
DESIGNED BY	DRAWN BY
CHECKED BY	

SHEET NO.	ET101CP
73 of 103	DISCIPLINE TYPE SEQUENCE DRAWING TYPE

GENERAL NOTES:

A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

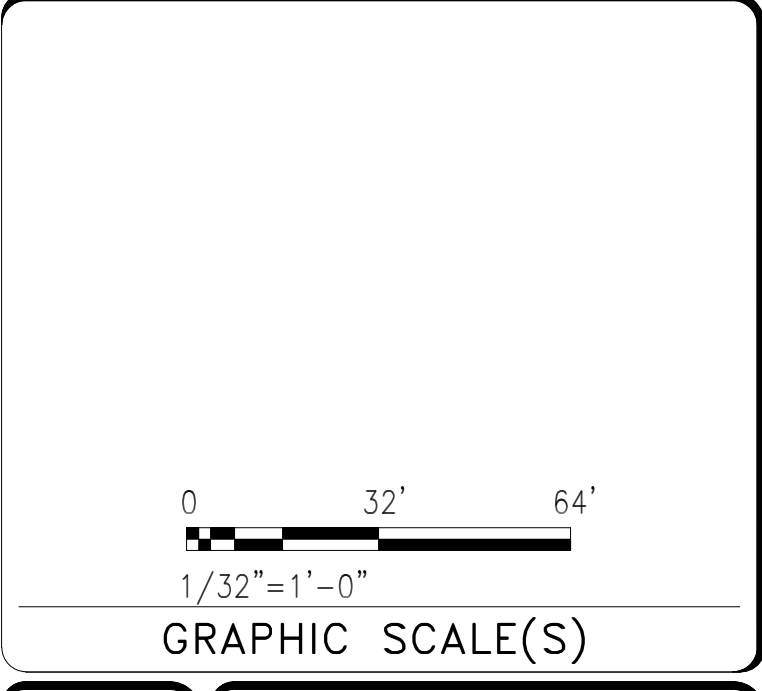
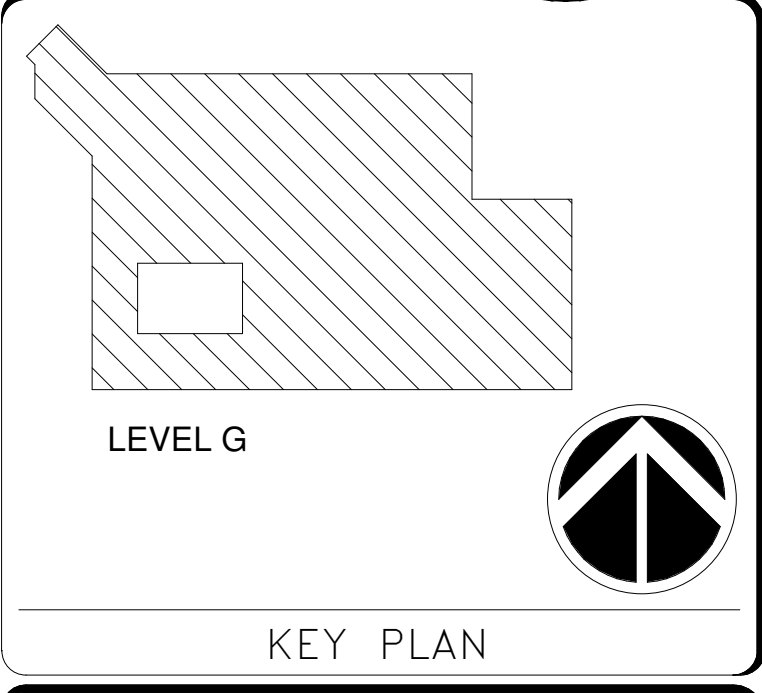


G1 MEZZANINE SYSTEMS PLAN
 ET102CP SCALE = 1/4" = 1'-0"

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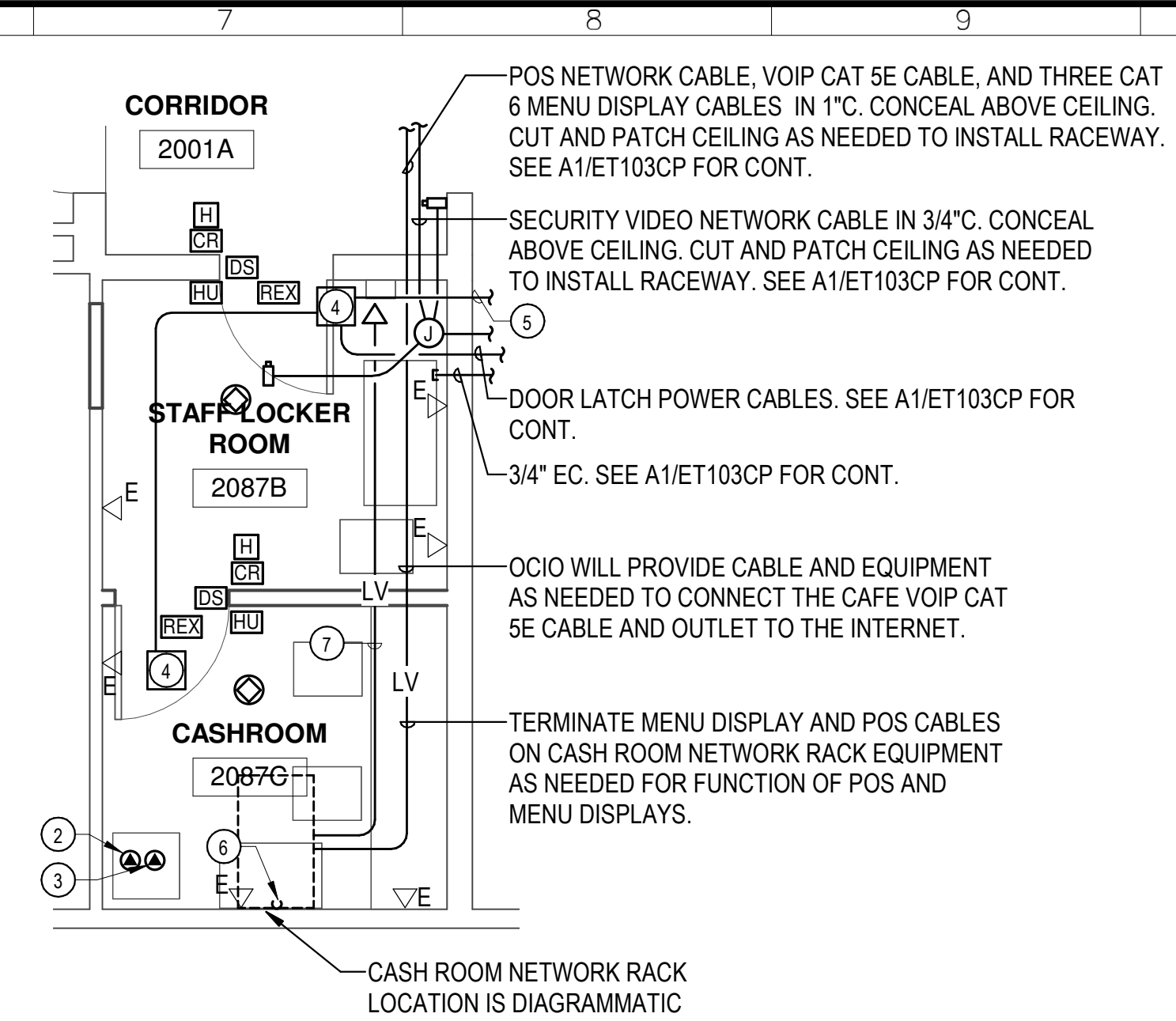
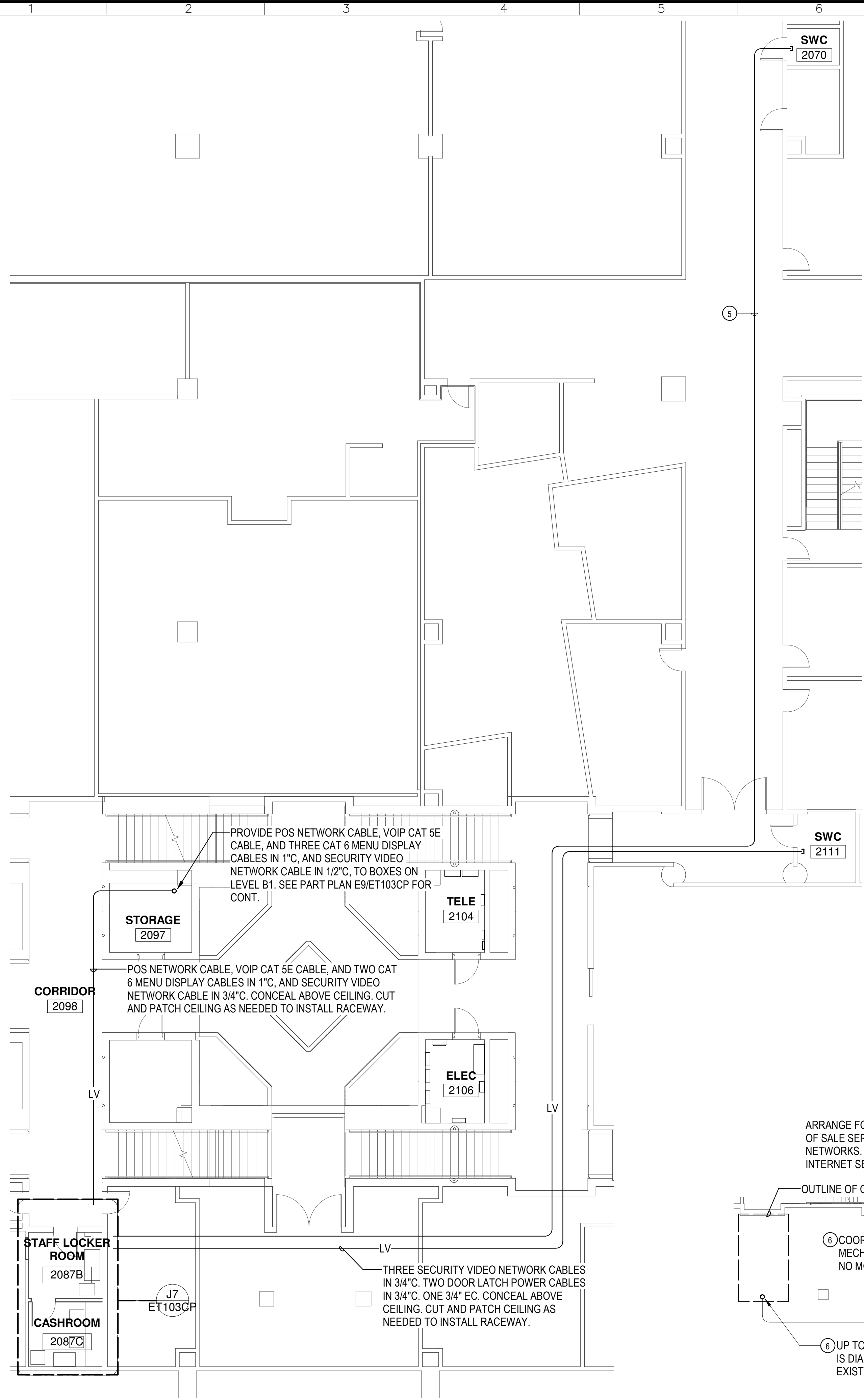
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REVISION # DATE	REVISION DESCRIPTION

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BUILDING NAME	NMAA						
ADDRESS	12th and Independence Avenue, SW, Washington DC						
PROJECT TITLE	CAFE AT SACKLER PAVILION						
SF PROJECT NUMBER	2209110						
A/E PROJECT NUMBER	1401.54						
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WORKING STAFF	<table border="1"> <tr> <td>MRH</td> <td>MRH</td> <td>TMC</td> </tr> <tr> <td>DESIGNED BY</td> <td>DRAWN BY</td> <td>CHECKED BY</td> </tr> </table>	MRH	MRH	TMC	DESIGNED BY	DRAWN BY	CHECKED BY
MRH	MRH	TMC					
DESIGNED BY	DRAWN BY	CHECKED BY					

SHEET NO. **ET102CP**
 74 of 103

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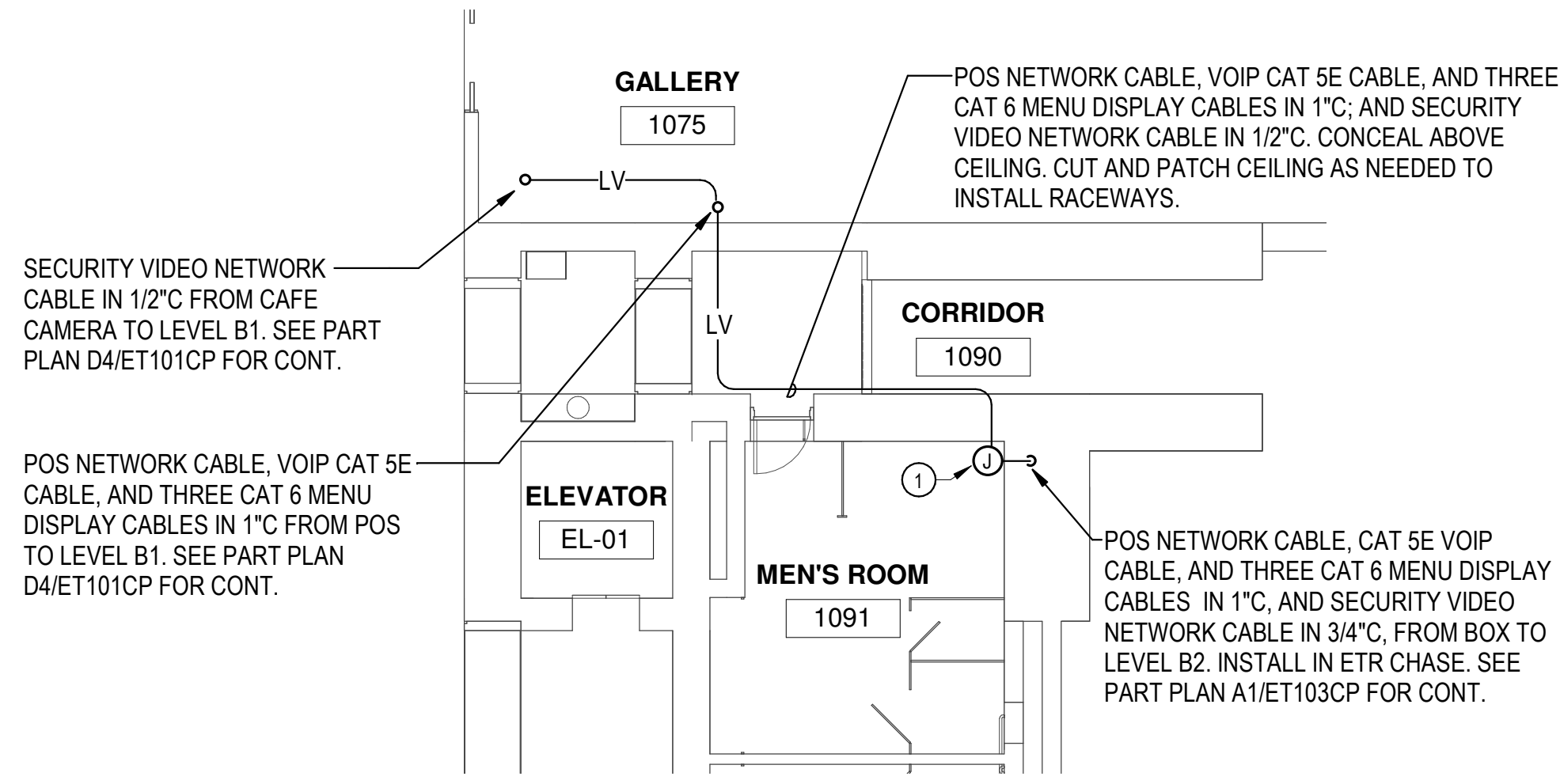
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SPECIFIC NOTES:

- BLUE LOCKABLE JUNCTION BOX ABOVE CEILING. PROVIDE LABEL. SUBMIT SHOP DRAWINGS FOR REVIEW BY OFFICE OF PROTECTIVE SERVICES BEFORE INSTALLATION.
- CONNECTION TO CASH SAFE VIBRATION DETECTOR.
- CONNECTION TO CASH SAFE DOOR CONTACTS.
- SECURITY INTERFACE BOX. MOUNT ABOVE CEILING.
- (2) CARD READER DATA CABLES, (2) CARD READER POWER CABLES, (1) CASH SAFE VIBRATION CABLE, (1) CASH SAFE CONTACT CABLE, (1) HOLD-UP BUTTON CABLE, (1) INTRUSION DETECTION MOTION DETECTOR CABLE, 1.25" EMT.
- DEDICATED CAT-6 CABLE IN ONE-INCH EMT FROM THE TELEPHONE COMPANY POINT OF DEMARCATION (IN ROOM TR3219) TO THE CASH ROOM NETWORK RACK.
- CAT-6 CABLE IN 3/4" EMT FROM TIME CLOCK DATA OUTLET TO CASH ROOM SERVER RACK. LOCATION IS DIAGRAMMATIC. COORDINATE EXACT LOCATION WITH CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE.

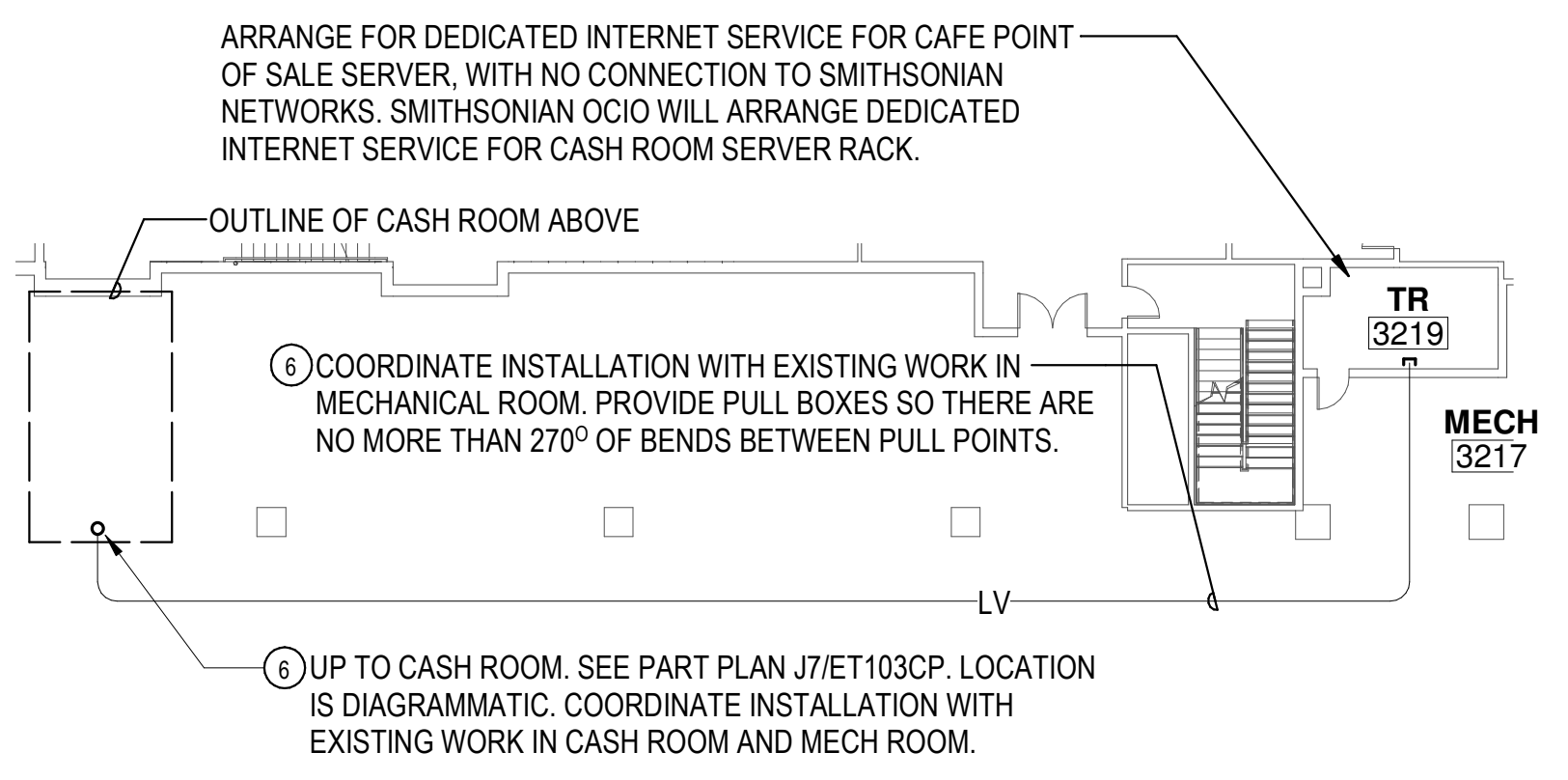
B2 SYSTEMS PLAN - CASH ROOM
SCALE = 1/4" = 1'-0"



GENERAL NOTES:

- POS NETWORK CABLE, VOIP CAT 5E CABLE, AND THREE CAT 6 MENU DISPLAY CABLES IN 1" CONCEAL ABOVE CEILING. CUT AND PATCH CEILING AS NEEDED TO INSTALL RACEWAYS.
- SECURITY VIDEO NETWORK CABLE IN 1/2" CONCEAL ABOVE CEILING. CUT AND PATCH CEILING AS NEEDED TO INSTALL RACEWAYS.
- POS NETWORK CABLE, VOIP CAT 5E CABLE, AND THREE CAT 6 MENU DISPLAY CABLES IN 1" CONCEAL ABOVE CEILING. CUT AND PATCH CEILING AS NEEDED TO INSTALL RACEWAYS.
- POS NETWORK CABLE, CAT 5E VOIP CABLE, AND THREE CAT 6 MENU DISPLAY CABLES IN 1" CONCEAL ABOVE CEILING. CUT AND PATCH CEILING AS NEEDED TO INSTALL RACEWAYS.

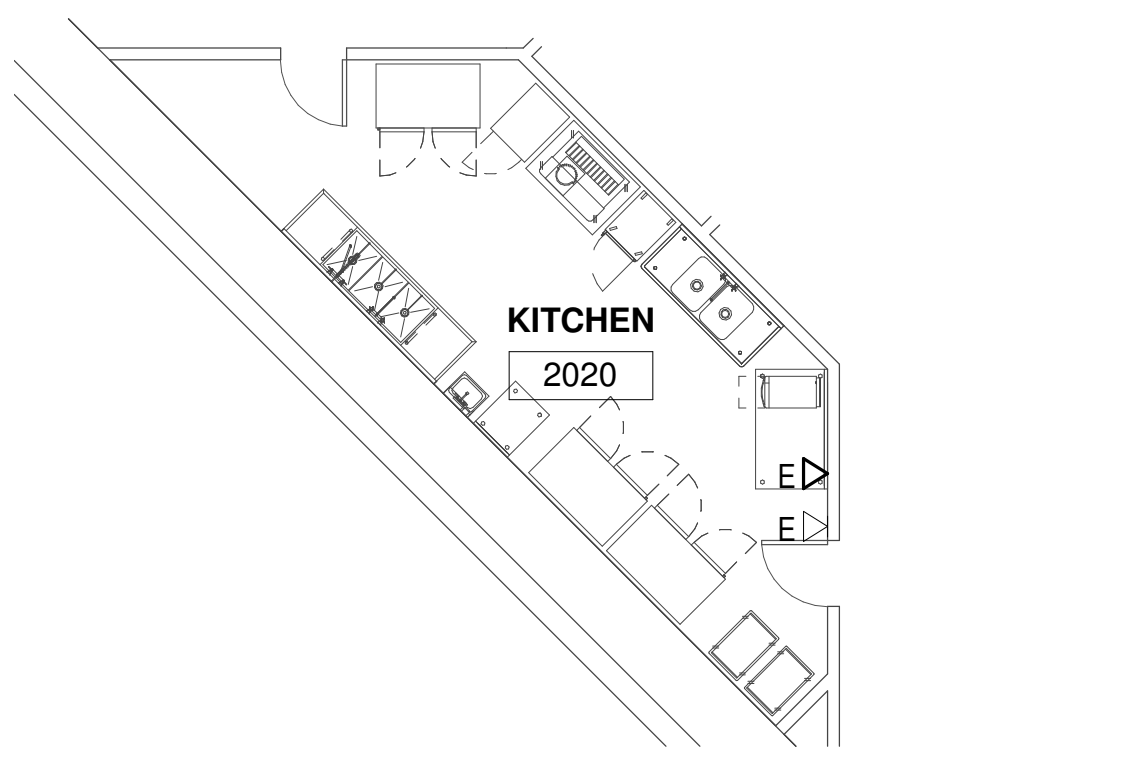
E9 B1 SYSTEMS (& POWER) LOCATOR PLAN
SCALE = 1/8" = 1'-0"



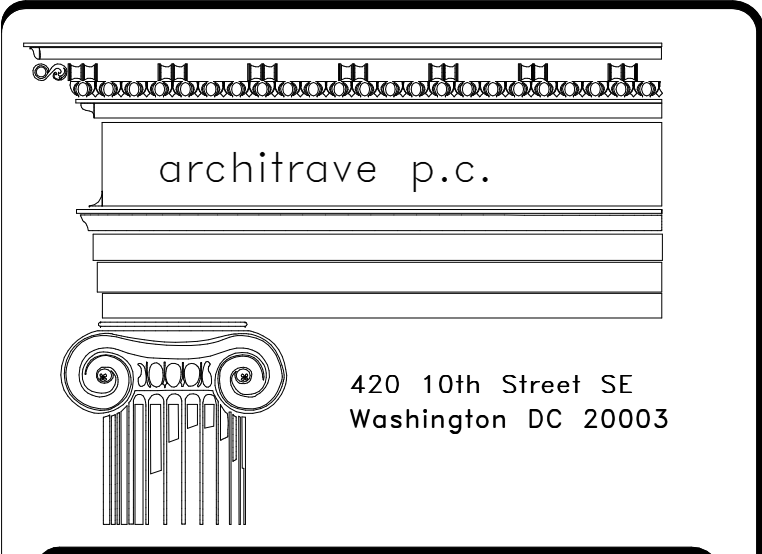
ARRANGE FOR DEDICATED INTERNET SERVICE FOR CAFE POINT OF SALE SERVER, WITH NO CONNECTION TO SMITHSONIAN NETWORKS. SMITHSONIAN OCIO WILL ARRANGE DEDICATED INTERNET SERVICE FOR CASH ROOM SERVER RACK.

- COORDINATE INSTALLATION WITH EXISTING WORK IN MECHANICAL ROOM. PROVIDE PULL BOXES SO THERE ARE NO MORE THAN 270° OF BENDS BETWEEN PULL POINTS.
- UP TO CASH ROOM. SEE PART PLAN J7/ET103CP. LOCATION IS DIAGRAMMATIC. COORDINATE INSTALLATION WITH EXISTING WORK IN CASH ROOM AND MECH ROOM.

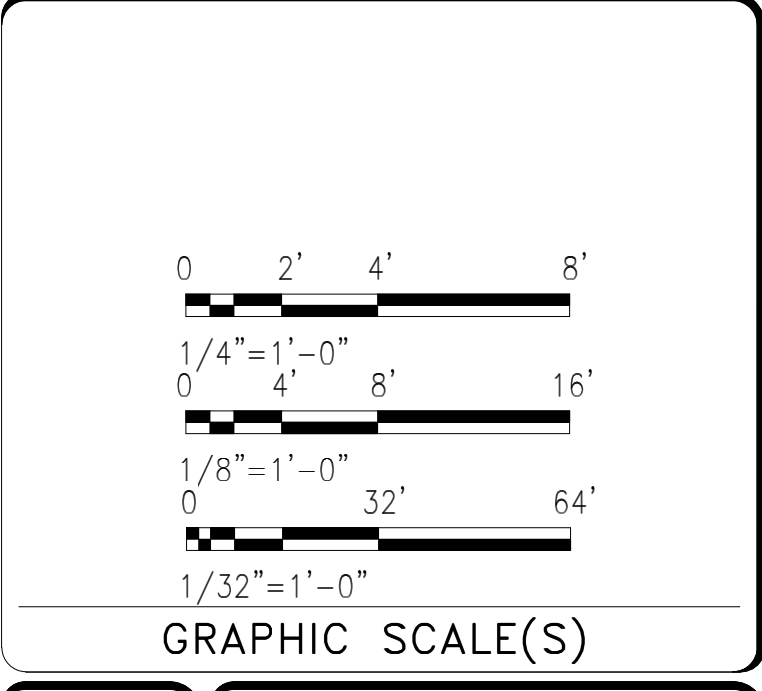
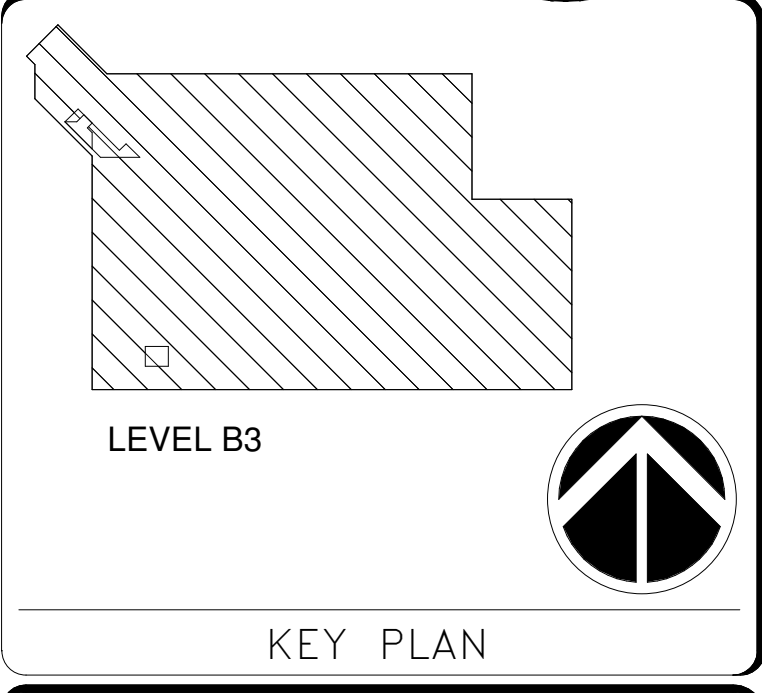
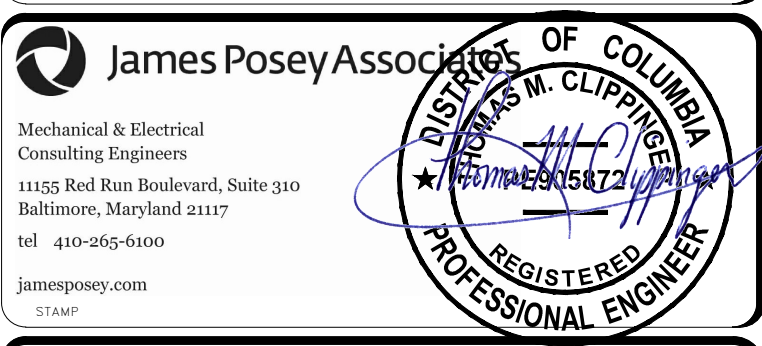
A6 B3 SYSTEMS LOCATOR PLAN
SCALE = 1/16" = 1'-0"



A9 B2 SYSTEMS PLAN - KITCHEN
SCALE = 1/8" = 1'-0"



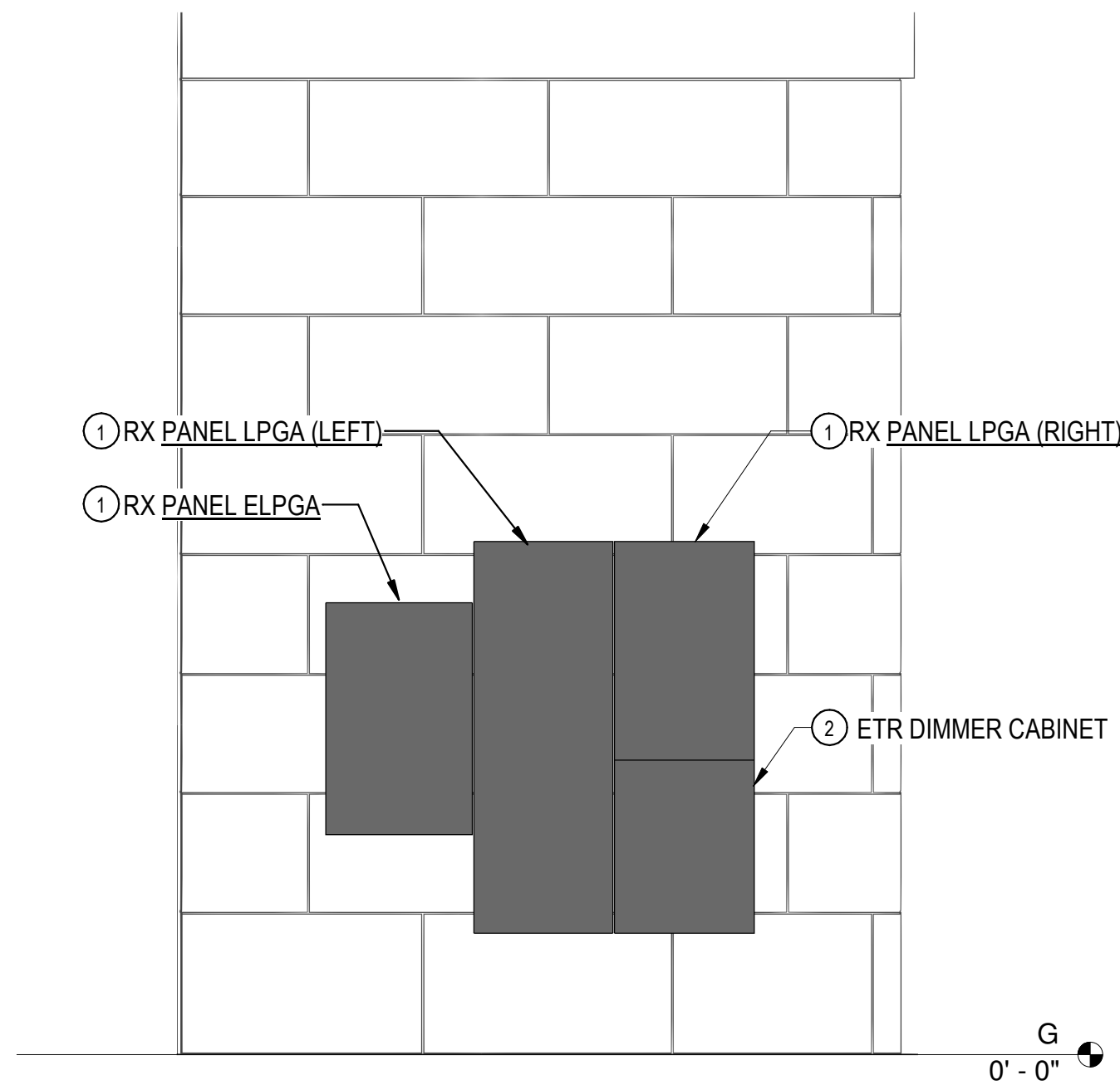
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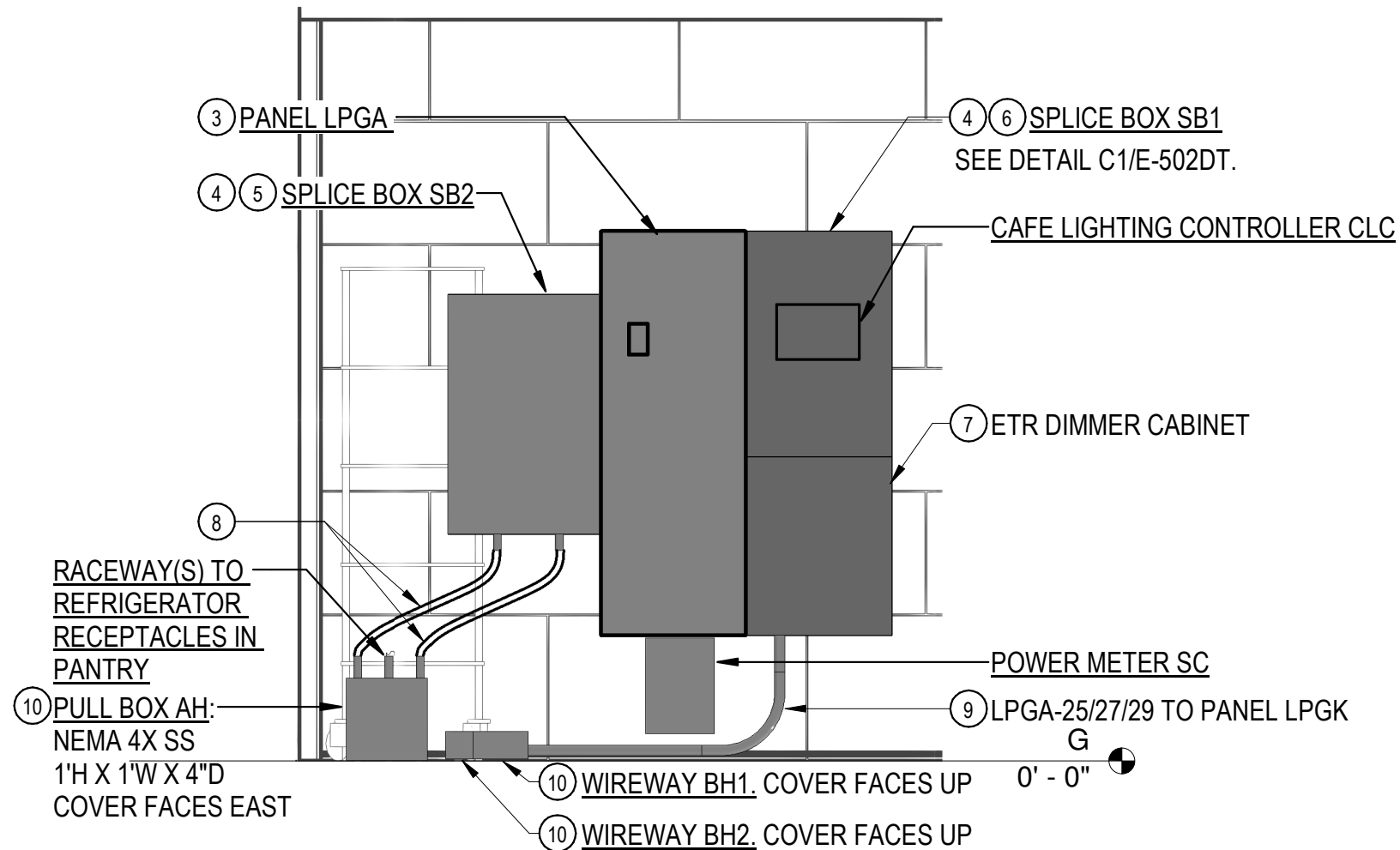
DATE	07/18/24	DESCRIPTION	Final Construction Documents
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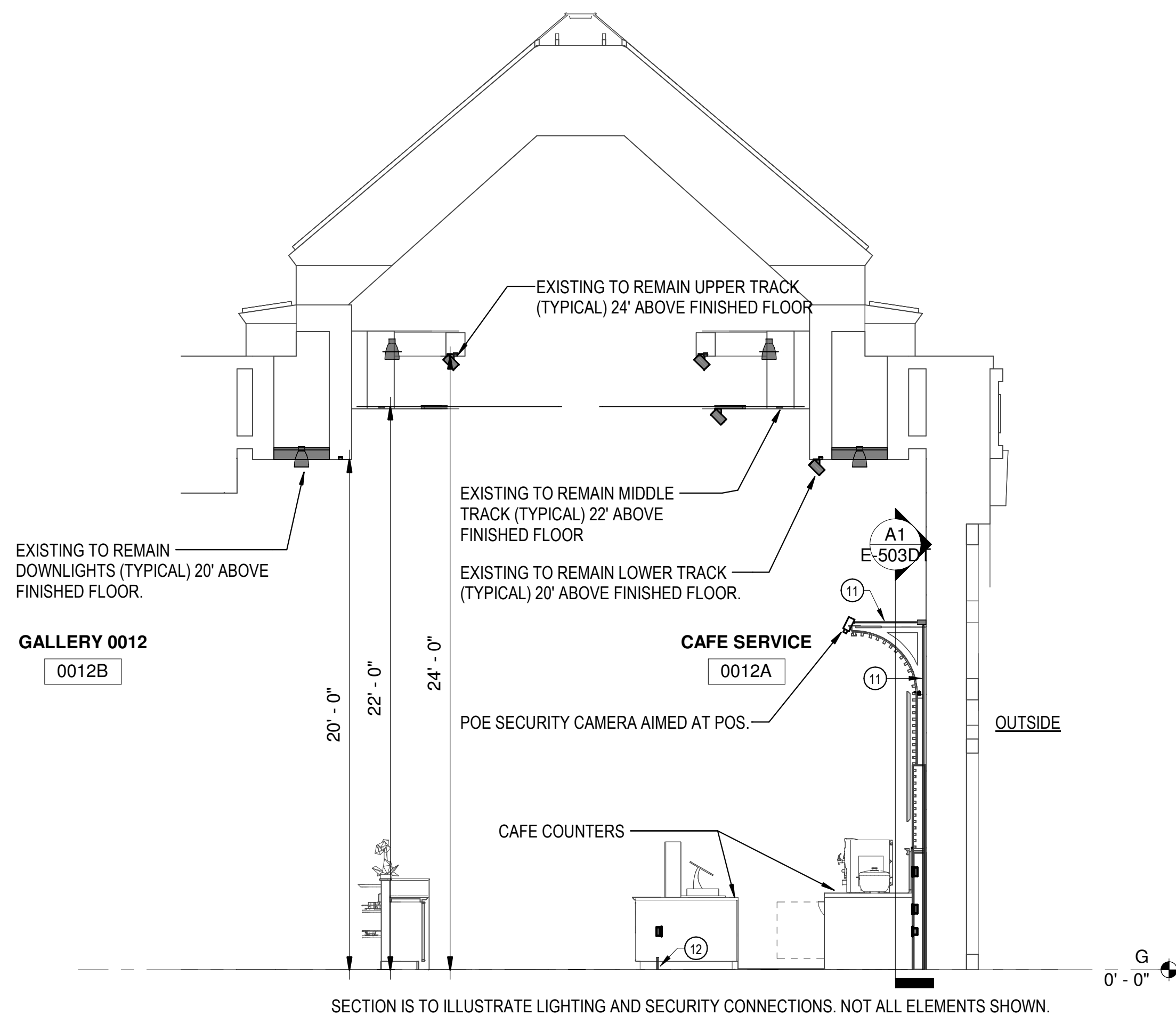
BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	SYSTEMS PLAN BASEMENTS
WORKING STAFF	MRH MRH TMC
SHEET NO.	75 of 103
DISCIPLINE	ET103CP



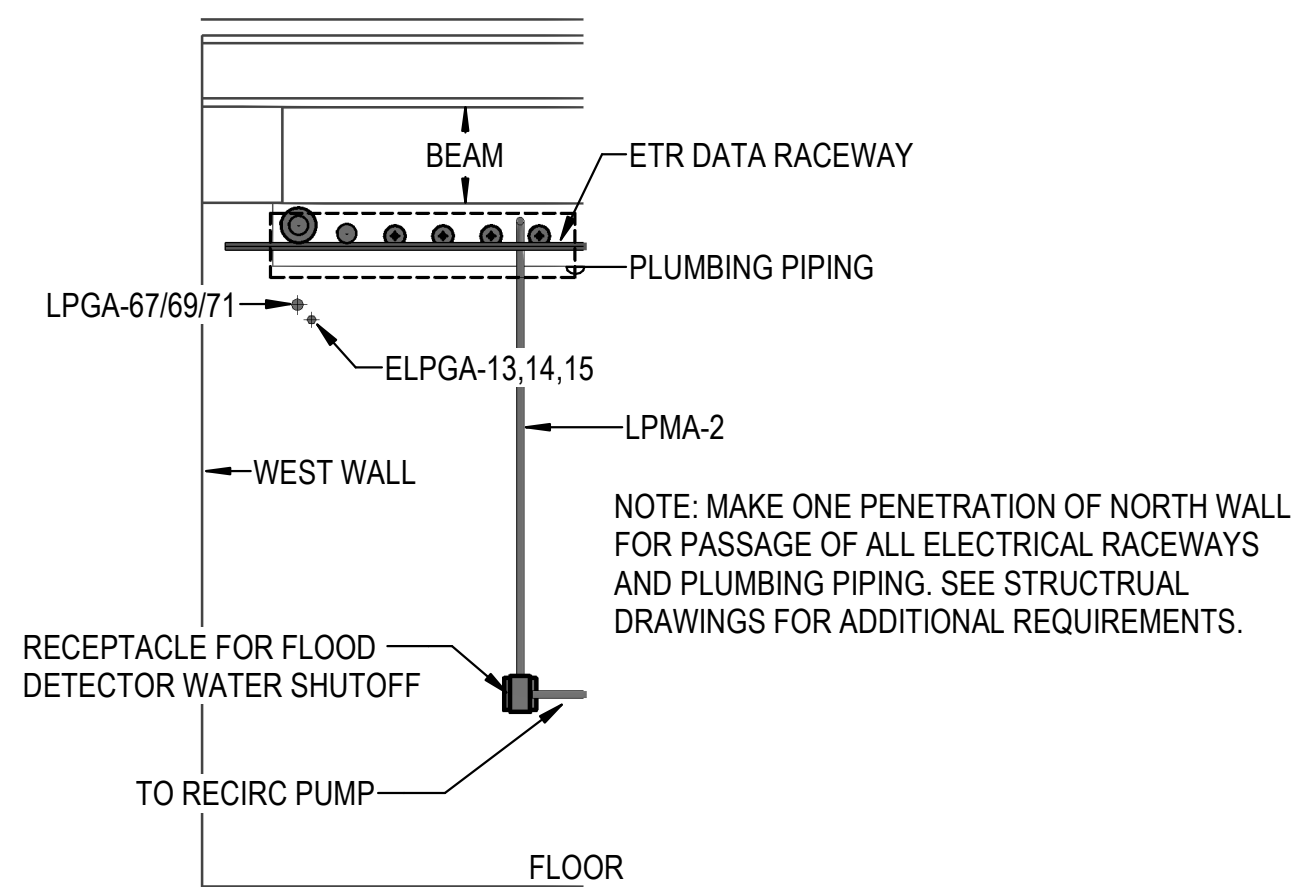
H1 ELEVATION- PANELS LPGA & ELPGA - DEMO
 E-501DT SCALE = 1/2" = 1'-0"



H6 ELEVATION- PANELS LPGA & ELPGA - NEW
 E-501DT SCALE = 1/2" = 1'-0"



B1 SECTION- WEST PAVILION BAY
 E-501DT SCALE = 1/4" = 1'-0"



B6 ELEVATION- MEZZANINE NORTH WALL
 E-501DT SCALE = 1/2" = 1'-0"

GENERAL NOTES:

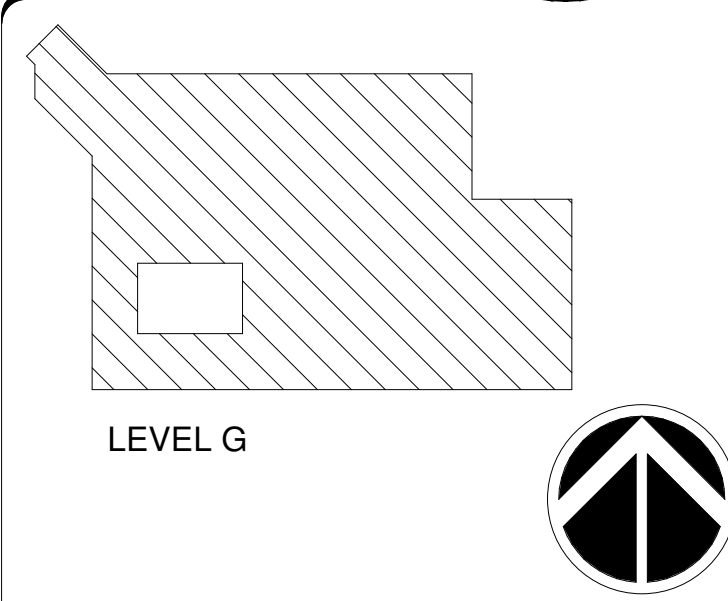
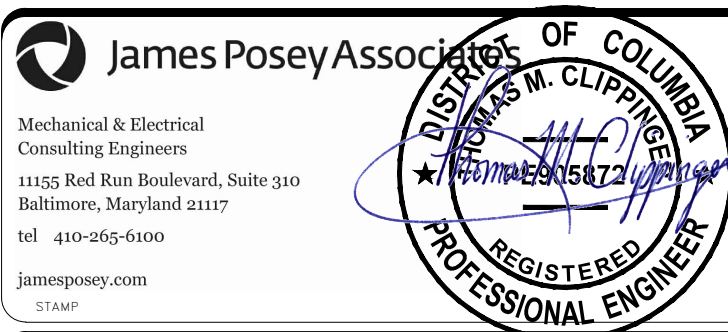
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE CONTRACTOR IN WRITING AND Awaiting DIRECTION BEFORE PROCEEDING WITH THE WORK. LOCATIONS OF EXISTING TO REMAIN WIRING ARE DIAGRAMMATIC. VERIFY LOCATION IN FIELD.
- B. DEMOLITION INCLUDES REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
- C. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.
- D. MAKE CONTINUOUS ANY EXISTING CIRCUITS INTERRUPTED BY DEMOLITION BUT WHICH ARE TO REMAIN.
- E. WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, EXTEND EXISTING WIRE AND RACEWAY TO NEW LOCATION AS REQUIRED.
- F. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE BLANK COVER PLATES FOR DEVICES REMOVED.

SPECIFIC NOTES:

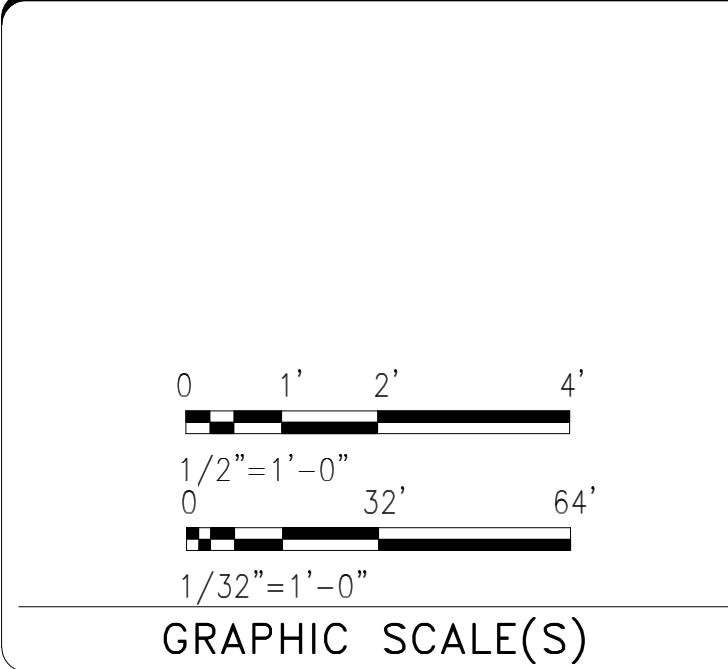
- ① REMOVE PANELBOARDS. EXISTING ENCLOSURES SHALL REMAIN. PROTECT EXISTING CONDUCTORS FOR REUSE.
- ② REMOVE THE SIX EXISTING DIMMERS CONNECTED TO LIGHT TRACKS. PROTECT EXISTING CONDUCTORS FOR REUSE. REMOVE COVER. PROTECT THE THREE REMAINING DIMMERS (WHICH SERVE DOWNLIGHTS).
- ③ PROVIDE NEW PANELBOARD USING EXISTING ENCLOSURE. PROVIDE CUSTOM COVER. SUBMIT SHOP DRAWING OF COVER PRIOR TO INSTALLATION. HINGED OR DOOR-IN-DOOR COVER PREFERRED BUT NOT REQUIRED. CONNECT EXISTING CONDUCTORS TO NEW FUSES OR CIRCUIT BREAKERS AS APPROPRIATE TO RESTORE INDICATED CIRCUITS.
- ④ PROVIDE TERMINAL BLOCKS INSIDE EXISTING ENCLOSURE FOR SPLICING. SPLICE CONDUCTORS AS NEEDED TO RESTORE CIRCUITS.
- ⑤ PROVIDE NEW BOX EXTENSION AND COVER. BOX EXTENSION SHALL PROTRUDE BEYOND FACE OF WALL THREE INCHES TO ALLOW CONNECTION OF 1" RACEWAYS, 3/4" OFF THE WALL, TO BOTTOM OF BOX. SUBMIT SHOP DRAWINGS FOR REVIEW BEFORE INSTALLATION.
- ⑥ PROVIDE NEW COVER WITH OPENINGS FOR EXISTING TO REMAIN DIMMERS ONLY. BRING DIMMERS FORWARD TO BE ACCESSIBLE THROUGH NEW COVER. LABEL EXISTING DIMMERS TO MATCH LABELS ON REMOVED COVER.
- ⑦ PROVIDE CUSTOM COVER. MOUNT CAFE LIGHTING CONTROLLER CLC IN COVER.
- ⑧ 1" LIQUIDTIGHT FLEXIBLE METAL CONDUIT..
- ⑨ 1-1/4" STAINLESS-STEEL ELECTRICAL METALLIC TUBING TO ROOM BELOW. SURFACE-MOUNT ON WALL USING STANDOFF BRACKETS TO PROVIDE A MINIMUM OF 3/4" CLEARANCE BETWEEN TUBING AND WALL, TO MINIMIZE ACCUMULATION OF GREASE OR DIRT. SEAL EDGE OF BRACKETS TO WALL.
- ⑩ STAINLESS STEEL. GASKETED COVER. MOUNT TO FLOOR. CAULK AROUND EDGE. LOCATE SO AS TO ALLOW RACEWAYS PENETRATING FLOOR TO MEZZANINE LEVEL TO AVOID EXISTING BEAM. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO INSTALLATION. SEE C6/E-502DT FOR PLAN VIEW.
- ⑪ 1/2" ELECTRICAL METALLIC TUBING AND JUNCTION BOX FOR SECURITY CAMERA CABLE.
- ⑫ 3/4" ELECTRICAL METALLIC TUBING STUBBED INTO CAFE COUNTER FROM LEVEL B1 BELOW. RACEWAY FOR POINT OF SALE WIRING FROM CAFE TO CASH ROOM.



FOR CONSTRUCTION



KEY PLAN

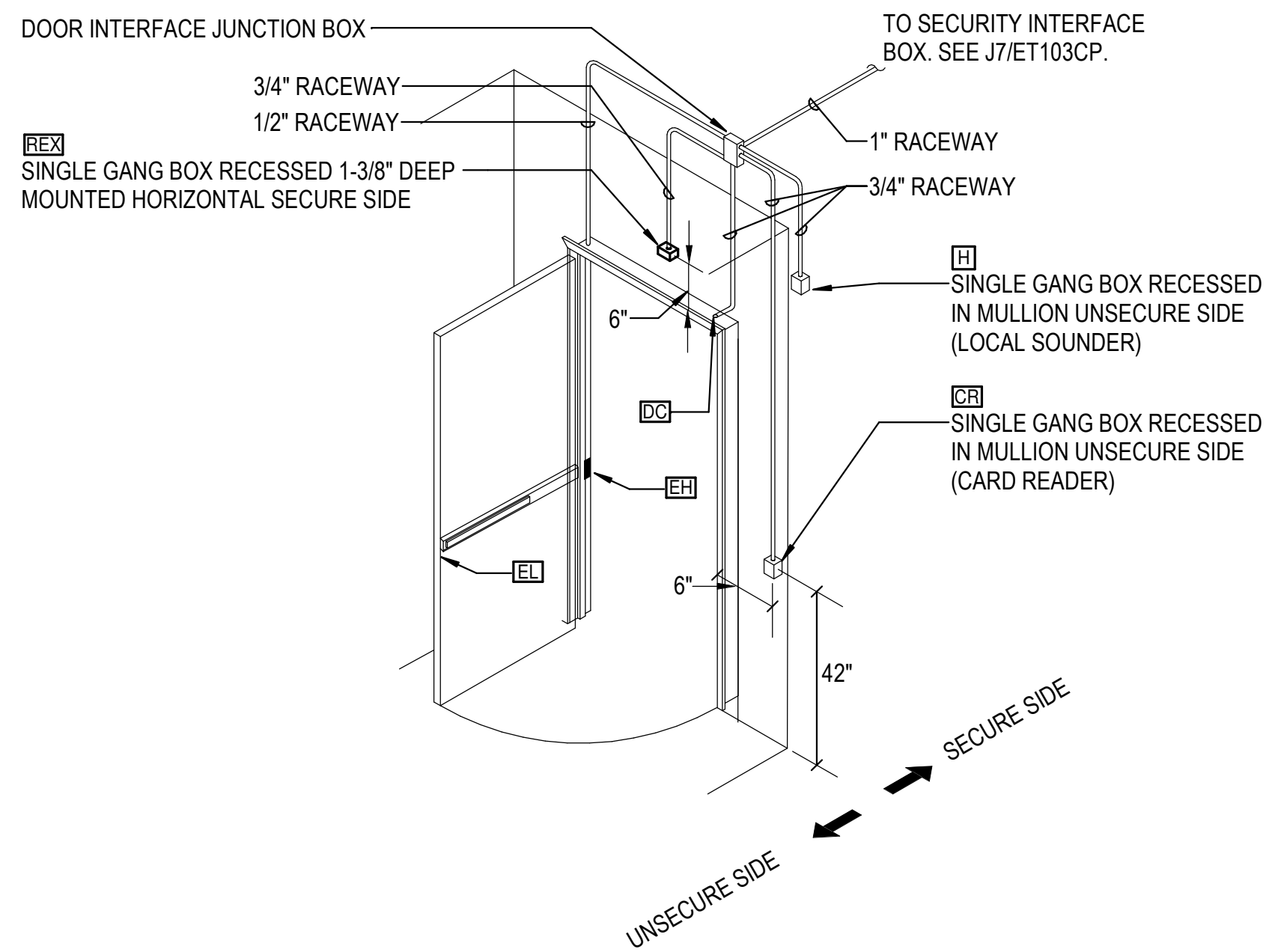


GRAPHIC SCALE(S)

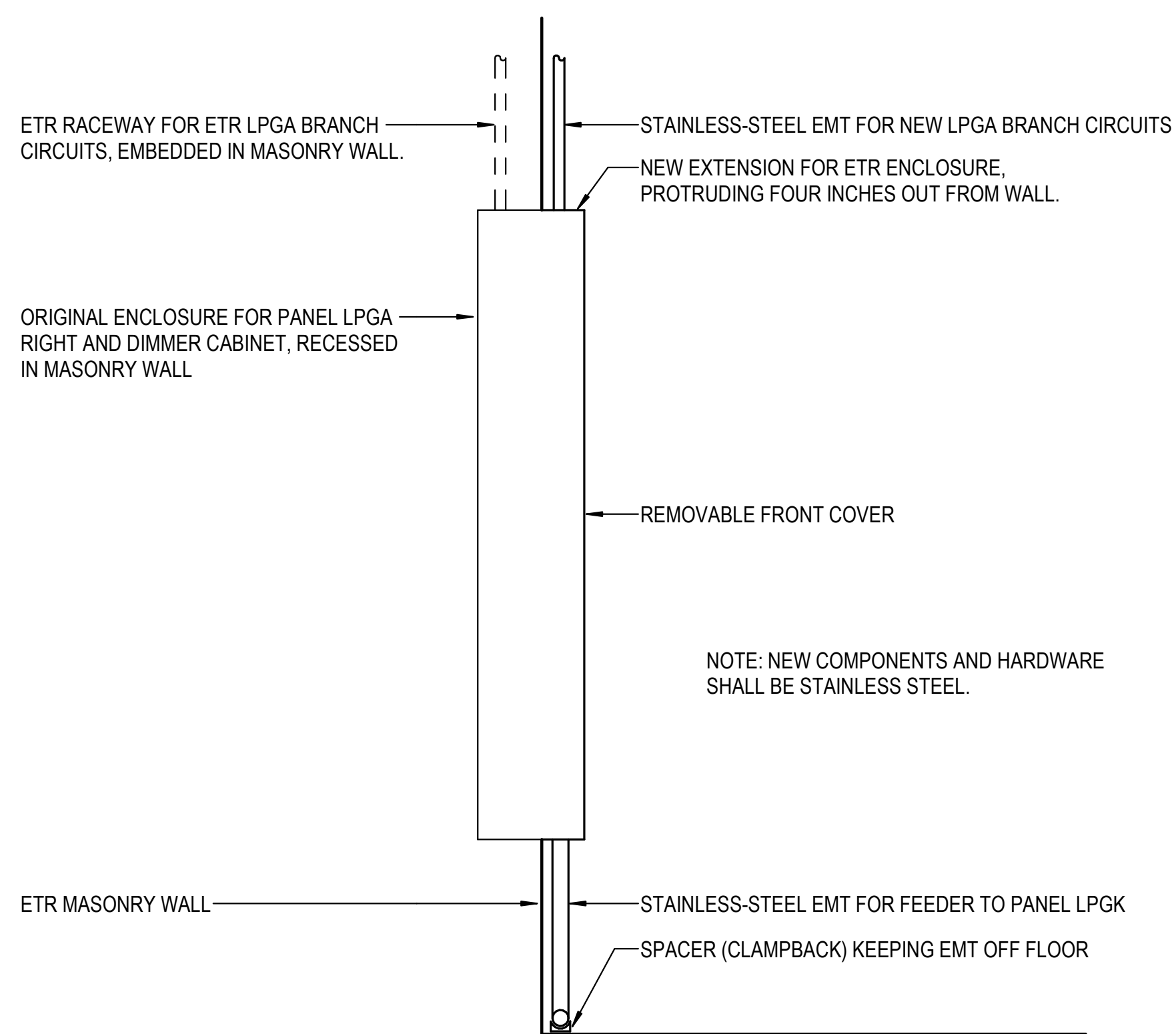
DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	DESCRIPTION	

Smithsonian Institution
 Smithsonian Facilities
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

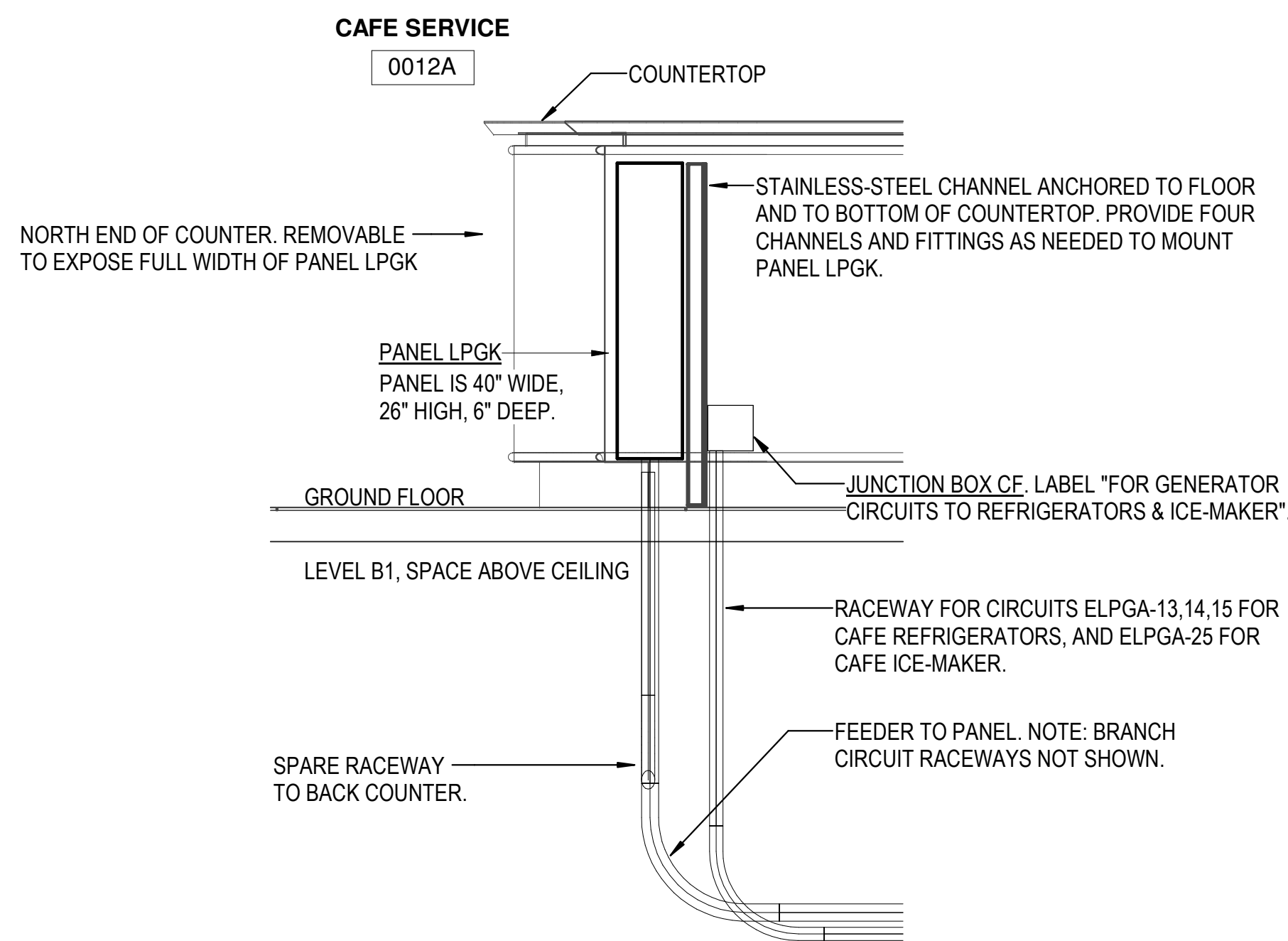
BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	ELECTRICAL DETAILS
WORKING STAFF	MRH MRH TMC
SHEET NO.	E-501DT
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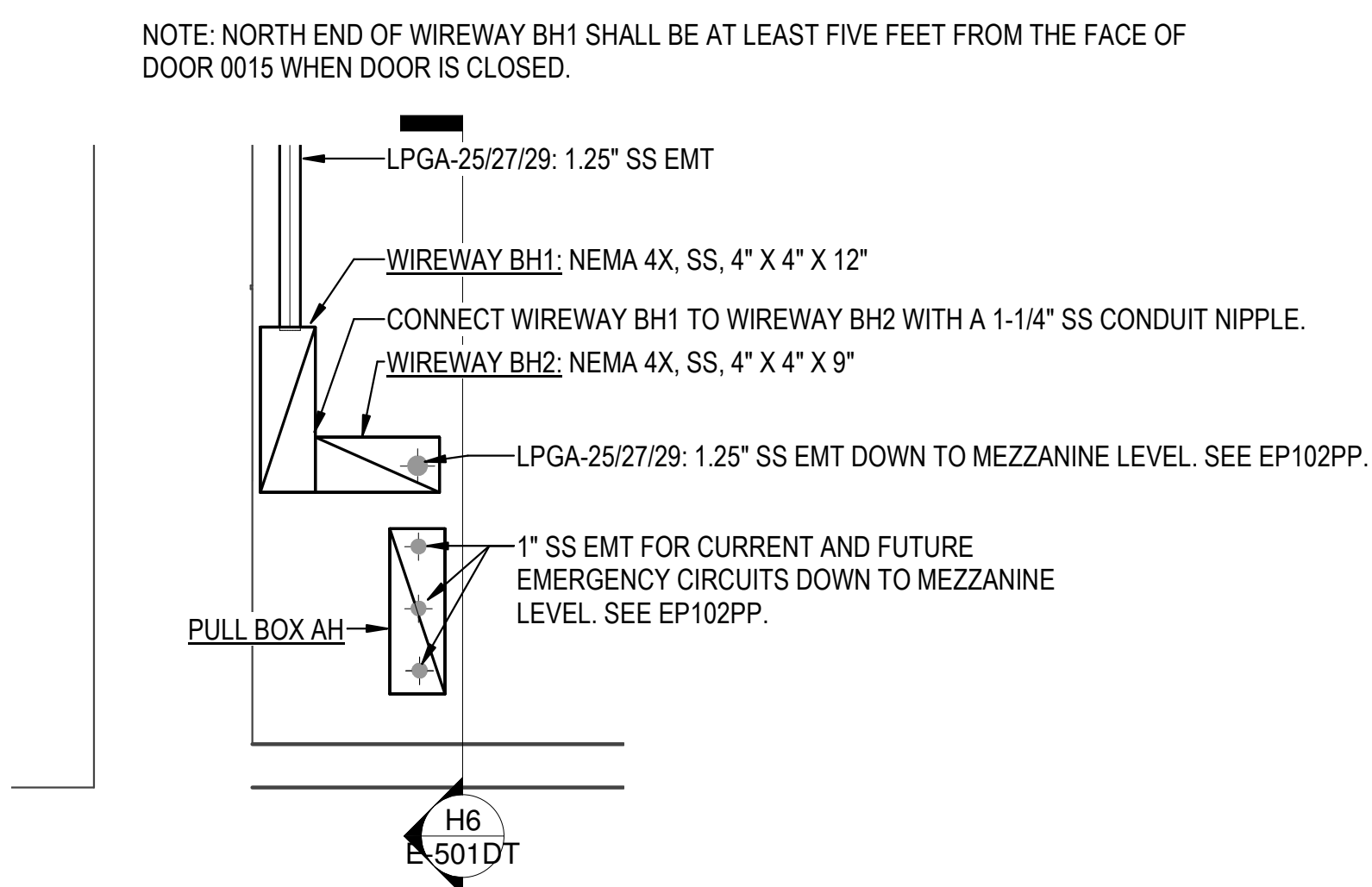
H1
E-502DT
SCALE = NOT TO SCALE



C1
E-502DT
SCALE = NOT TO SCALE



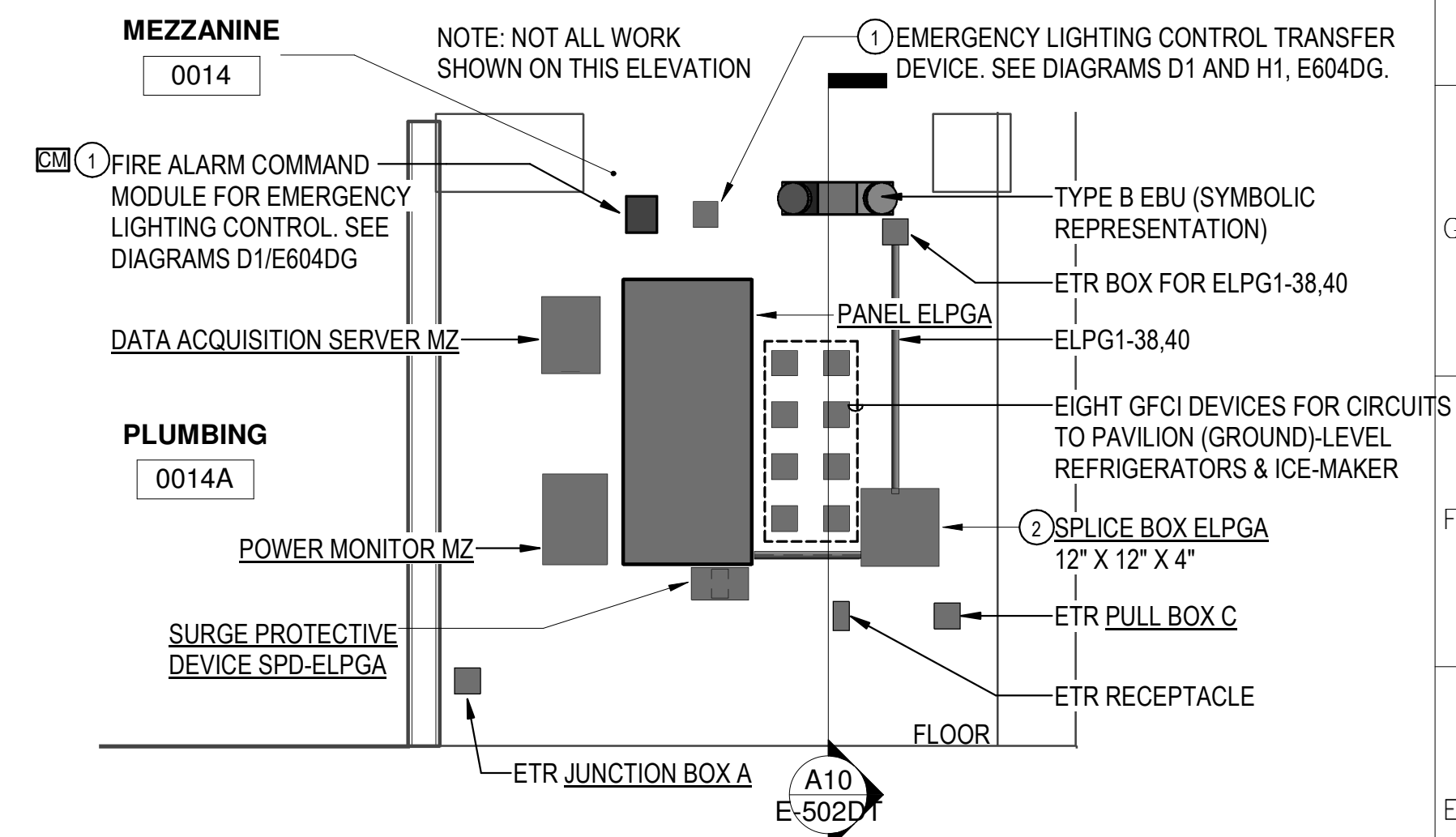
G6
E-502DT
SCALE = 1" = 1'-0"



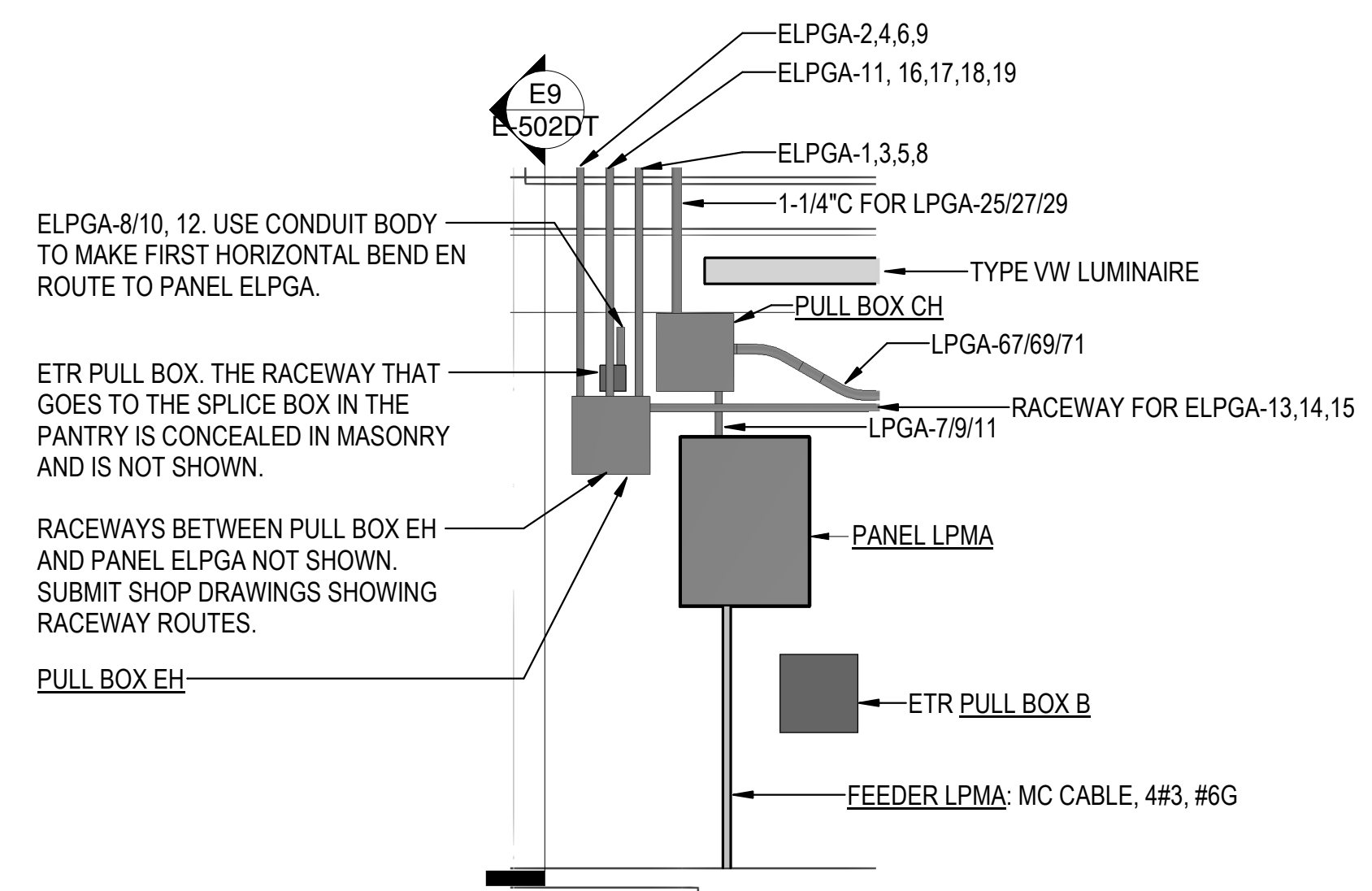
A6
E-502DT
SCALE = 1" = 1'-0"

GENERAL NOTES:

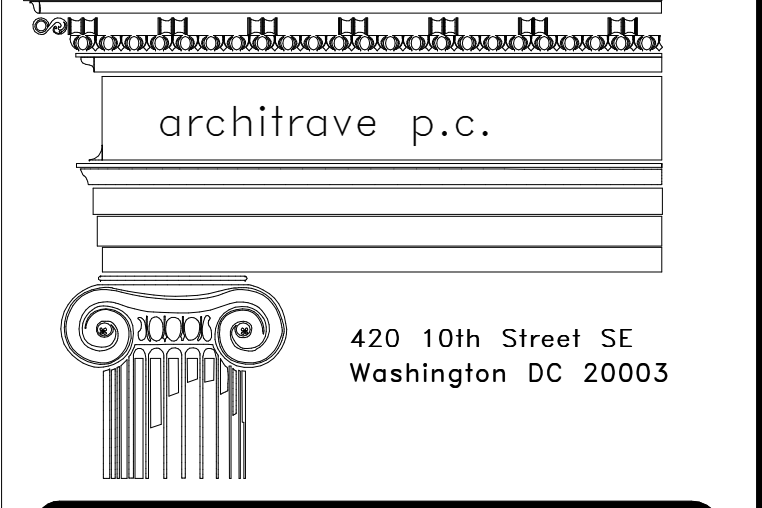
- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK. LOCATIONS OF EXISTING TO REMAIN WIRING ARE DIAGRAMMATIC. VERIFY LOCATION IN FIELD.
 - B. DEMOLITION INCLUDES REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
 - C. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (—) SHALL REMAIN.
 - D. MAKE CONTINUOUS ANY EXISTING CIRCUITS INTERRUPTED BY DEMOLITION BUT WHICH ARE TO REMAIN.
 - E. WHERE DEVICES ARE TO BE REMOVED AND REINSTALLED, EXTEND EXISTING WIRE AND RACEWAY TO NEW LOCATION AS REQUIRED.
 - F. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE BLANK COVER PLATES FOR DEVICES REMOVED.
- SPECIFIC NOTES:
- ① NOT PART OF BASE BID. PROVIDE UNDER BID OPTION FOR NEW MEZZANINE LIGHTING.
 - ② SPLICE FEEDER ELPG1-7,9 TO TEMPORARY FEEDER TO TEMPORARY LOAD CENTER ELPGA. SEE POWER RISER DIAGRAM.



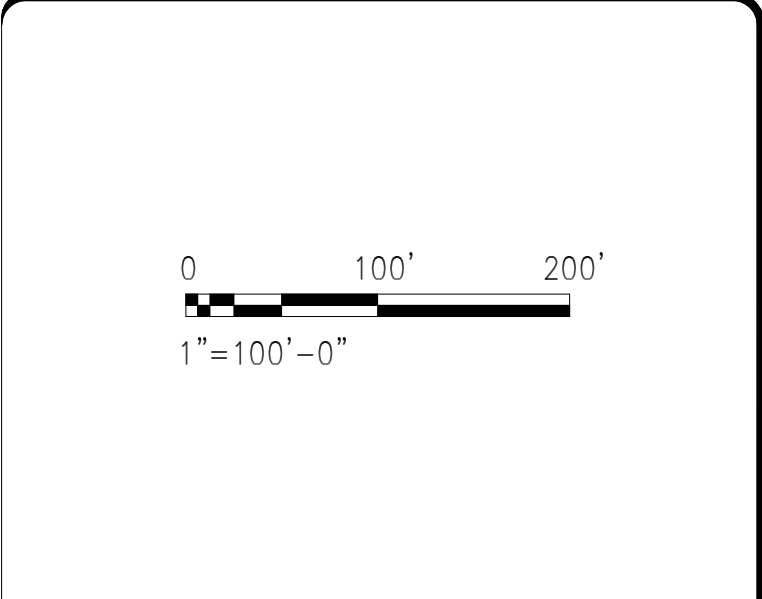
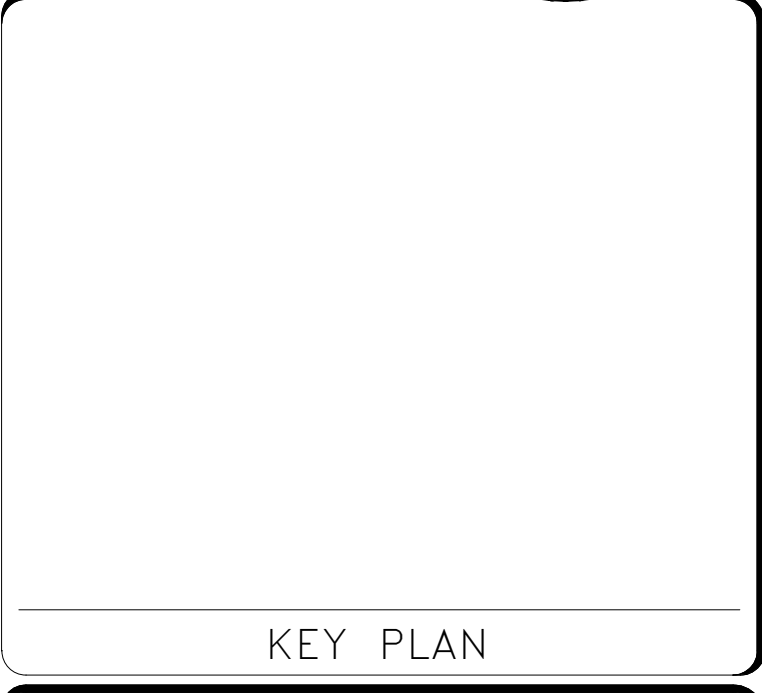
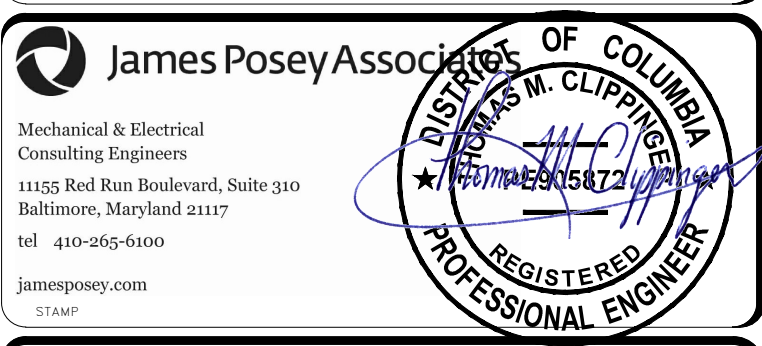
E9
E-502DT
SCALE = NOT TO SCALE



A10
E-502DT
SCALE = NOT TO SCALE



FOR CONSTRUCTION



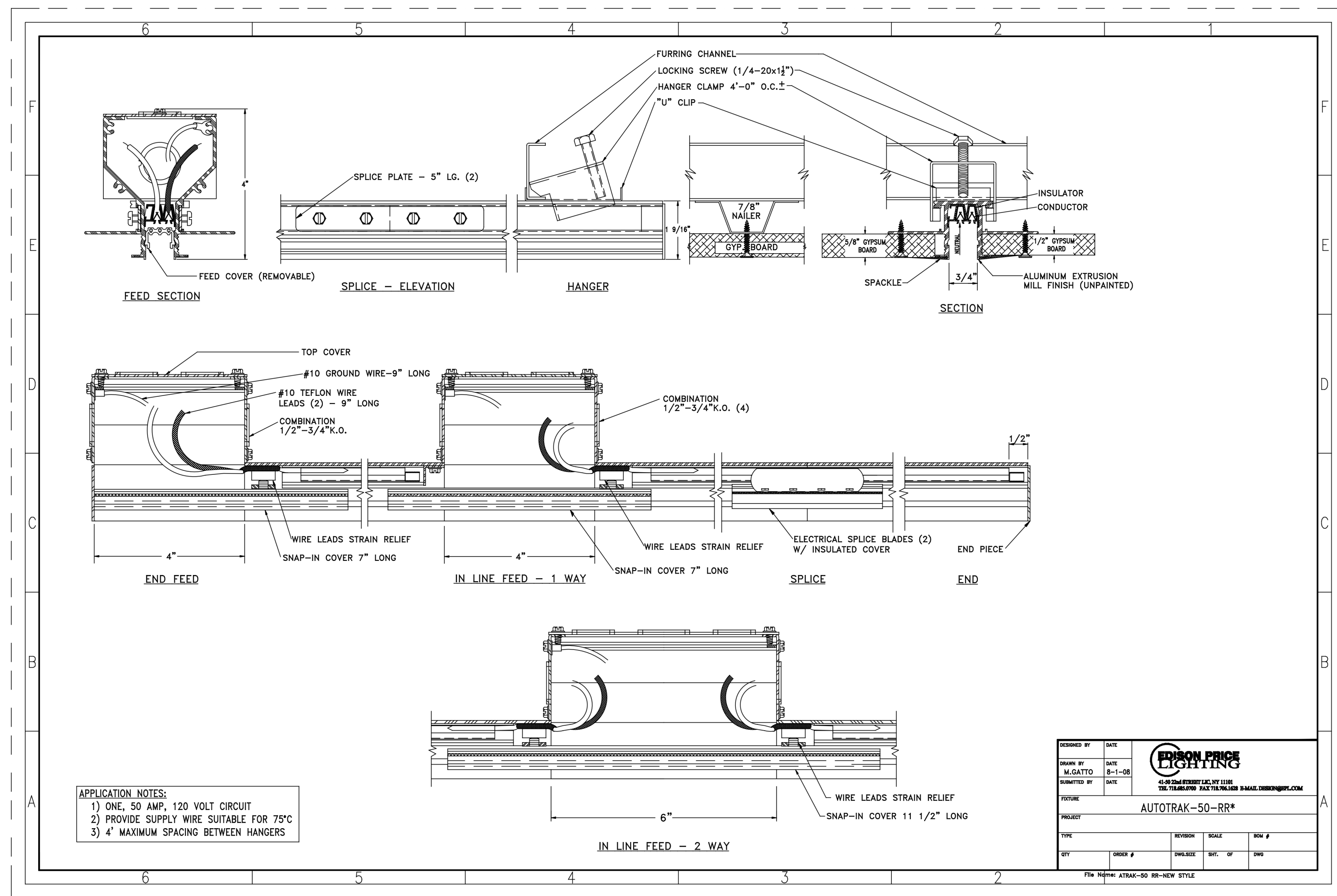
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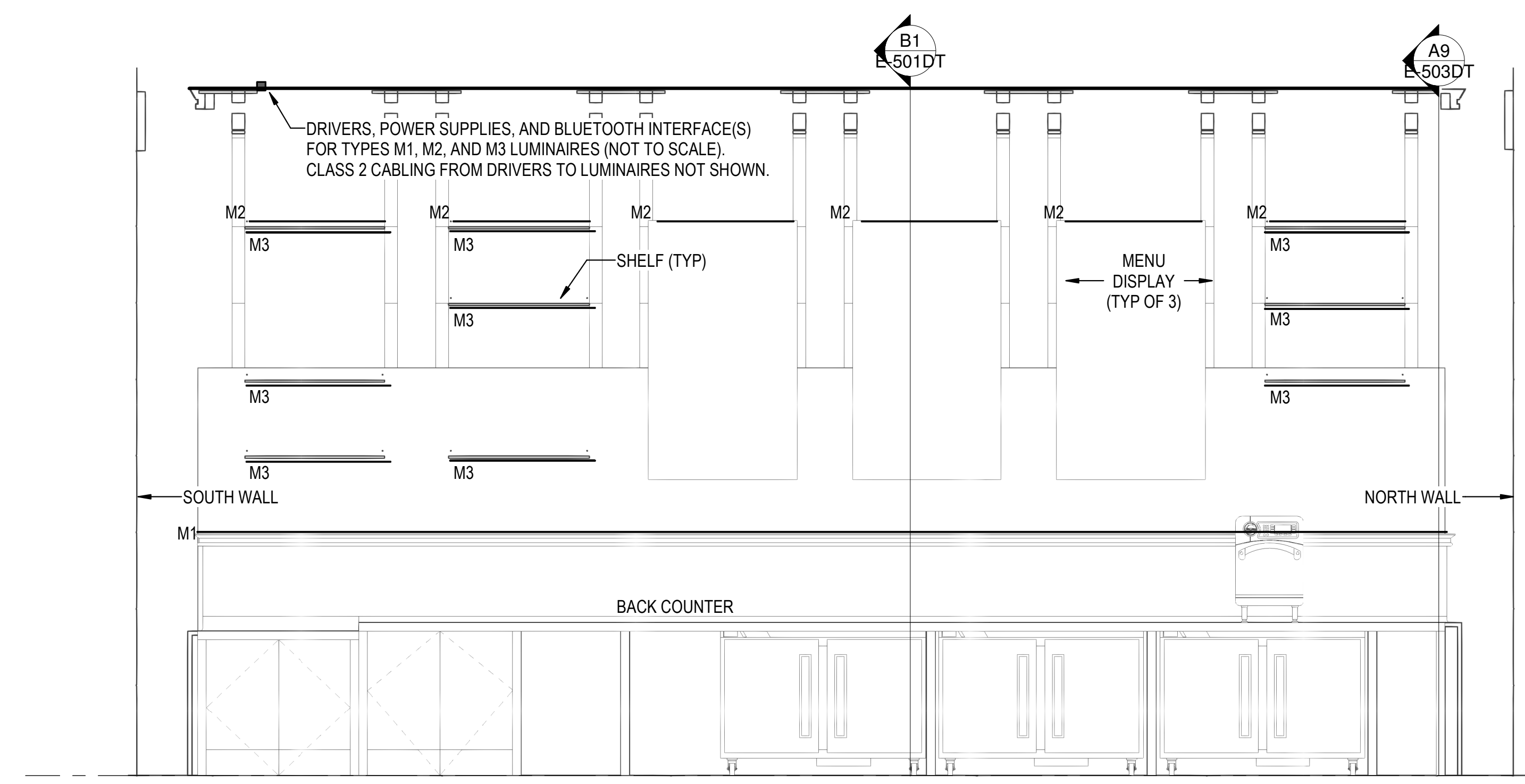
BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	ELECTRICAL DETAILS
WORKING STAFF	MRH MRH TMC
DESIGNED BY	DRAWN BY
CHECKED BY	

SHEET NO. E-502DT
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NOTE: THIS DRAWING CAME FROM EDISON-PRICE, THE MANUFACTURER OF THE EXISTING LIGHT TRACK, IN AUGUST 2020. THE DRAWING IS FOR INFORMATION ONLY. PRIOR TO RELEASING THE ORDER FOR REPLACEMENT TRACK, SUBMIT A TWO-FOOT SAMPLE SECTION, WITH SJO CORD AND NEMA 5-20R PLUG, SO SMITHSONIAN CAN CONFIRM COMPATIBILITY OF REPLACEMENT TRACK WITH THEIR EXISTING TRACK HEADS. DO NOT RELEASE REPLACEMENT TRACK ORDER UNTIL COMPATIBILITY HAS BEEN CONFIRMED.

F1
E-503DT
ETR LIGHT TRACK DETAIL
SCALE = NOT TO SCALE



NOTE: RUN THE CLASS 2 CABLES FROM THE DRIVERS TO THE LUMINAIRES VERTICALLY, ON TO THE VERTICAL MEMBERS SUPPORTING THE MILLWORK HORIZONTAL SLATS. HORIZONTAL CABLE RUNS SHALL BE ON TOP OF THE MILLWORK. OUT OF SIGHT. THE DESIGN INTENT IS FOR THE CABLES TO BE AS UNOBTUSIVE AS POSSIBLE.

A1
E-503DT
ELEVATION - BACK COUNTER LIGHTING
SCALE = 1/2" = 1'-0"

GENERAL NOTES:

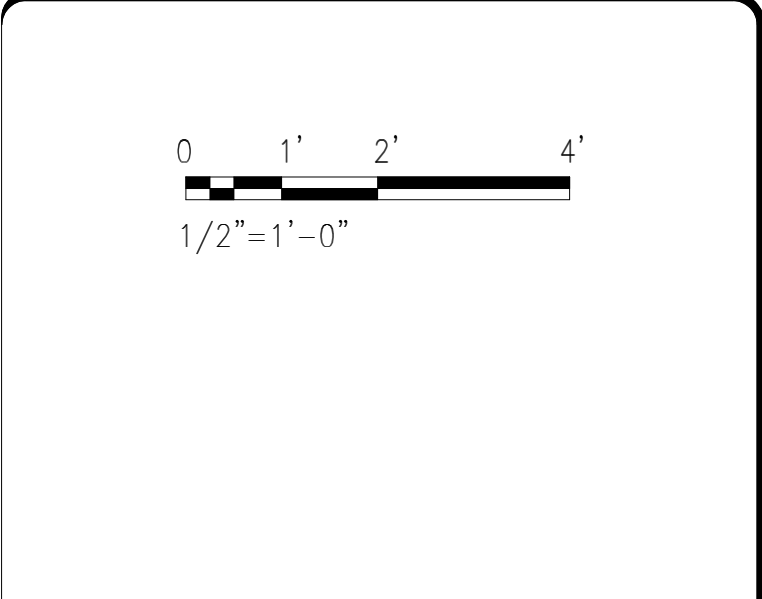
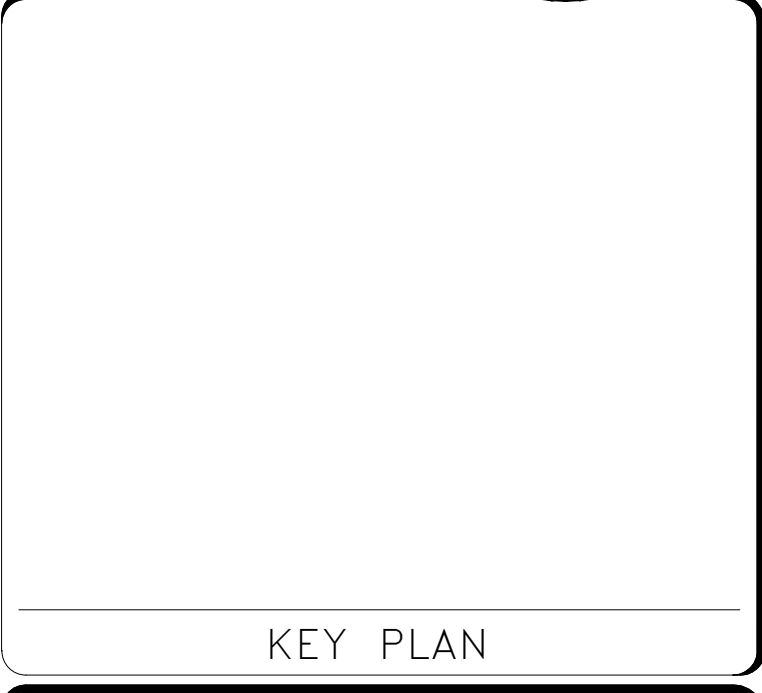
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- F. IN BLOCK OR CONCRETE WALLS TO REMAIN, PROVIDE BLANK COVER PLATES FOR DEVICES REMOVED.

architrave p.c.
420 10th Street SE
Washington DC 20003

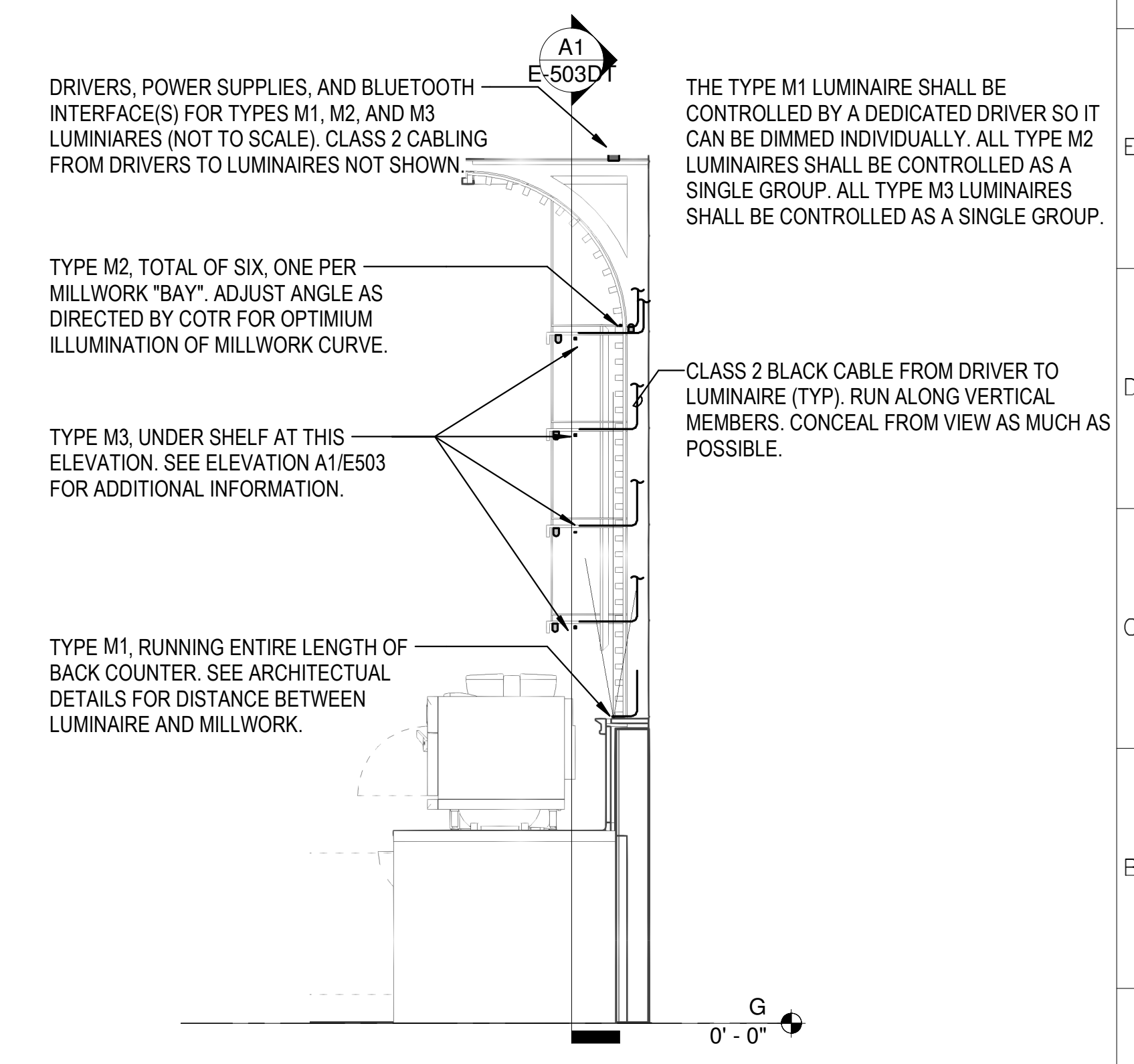
FOR CONSTRUCTION

James Posey Associates
Mechanical & Electrical
Consulting Engineers
11455 Red Run Boulevard, Suite 310
Baltimore, Maryland 21117
tel 410-265-6000
jamesposey.com

PROFESSIONAL ENGINEER



DATE	07/18/24	REVISION	Final Construction Documents
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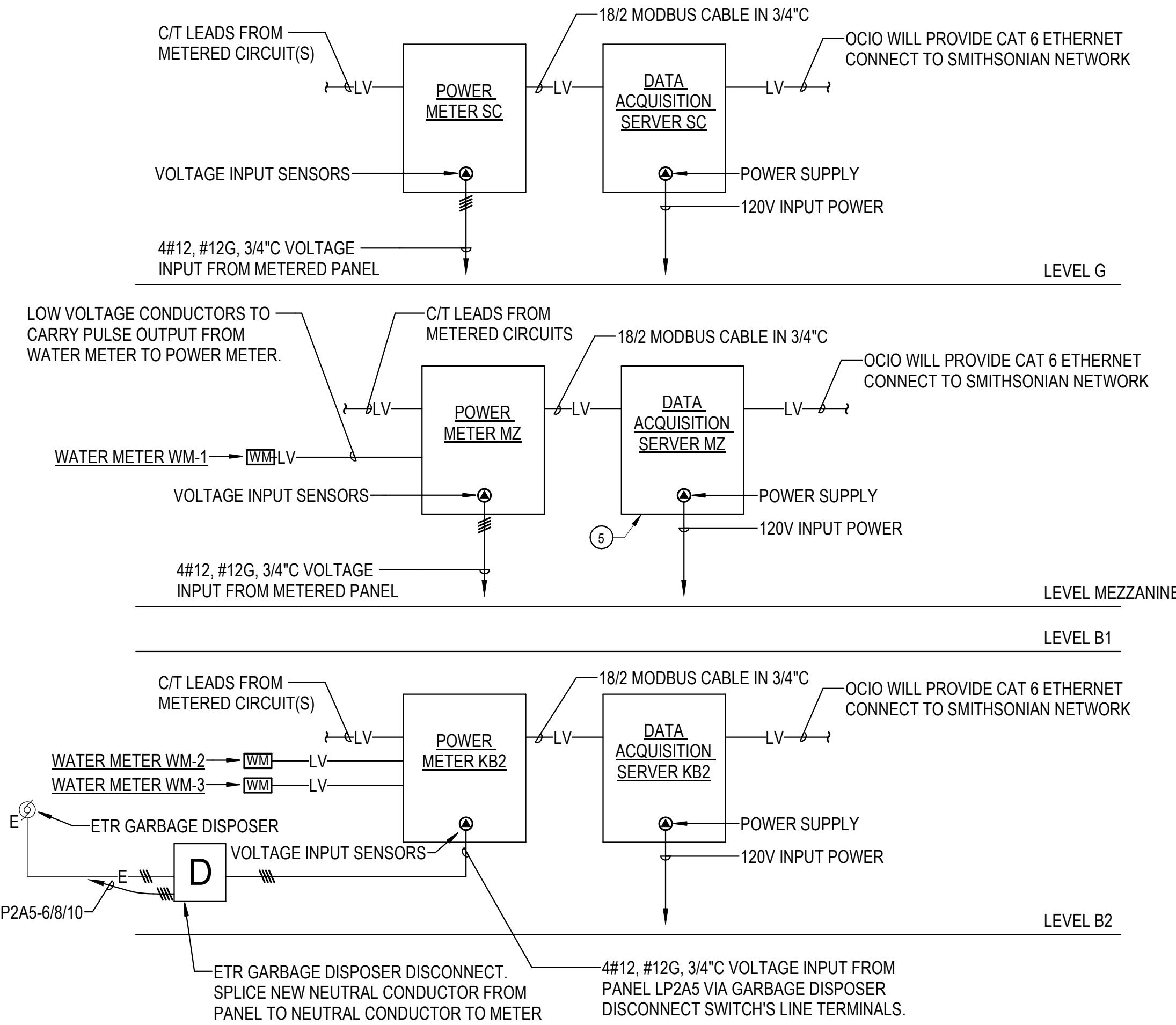


A9
E-503DT
MILLWORK LIGHTING DETAIL
SCALE = 1/2" = 1'-0"

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Washington, DC 20024-2520

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DRAWING TITLE	ELECTRICAL DETAILS
WORKING STAFF	MRH MRH TMC

SHEET NO.	E-503DT
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F1 POWER & WATER MONITORING DIAGRAM
 E-601D6 SCALE = NO SCALE

GIVEN THE LONG LEAD TIMES FOR NEW CIRCUIT BREAKER AND FUSED SWITCH PANELBOARDS, PROVIDE LOAD CENTERS FOR TEMPORARY USE TO ENABLE CAFE TO FUNCTION. LOAD CENTERS SHALL MATCH THE POLE NUMBERS AND CIRCUIT BREAKER CONFIGURATIONS OF THE PANELBOARDS THEY TEMPORARILY SUBSTITUTE. MOUNT TEMPORARY LOAD CENTERS ON SOUTH WALL OF PANTRY ("COAT ROOM").

SPlice FEEDER ELP1A-38,40 AT SPlice BOX ELP1A AND PULL THROUGH ENCLOSURE OF REMOVED PANEL LPGA TO LOAD CENTER ELPGA. SPlice 200A FEEDER FROM LDP1C TO PANEL LPGA. IN ENCLOSURE OF REMOVED PANEL LPGA TO LOAD CENTER LPGA. USE SO CORD TO CONNECT BRANCH CIRCUIT BREAKERS UP TO 40 AMPERES TO EXISTING AND NEW WIRING IN THE ENCLOSURES OF THE ORIGINAL PANELBOARDS. SUPPORT CORDS ON WALLS AND CEILING; DO NOT RUN CORDS ON FLOOR. FOR CIRCUIT BREAKERS OVER 40 AMPERES, USE APPROPRIATELY SIZED MC CABLE.

ETR WIRING PANEL SCHEDULE ELP2A

120 / 208 VOLTS				3 PHASE 4 WIRE			100 AMP BUS			SURFACE MOUNTED				
CIR-CUIT	DESCRIPTION	WIRE / RACEWAY	BREAKER	POLE	AMP	A Ø	B Ø	C Ø	CIR-CUIT	DESCRIPTION	WIRE / RACEWAY	BREAKER	POLE	AMP
1	REC TELEPHONE ROOM	ETR	1	20	-	-	-	-	2	REC TELEPHONE ROOM 2146	ETR	1	20	
3	LIGHTS RMS 2138,2146,2144, SCU 2-25	ETR	1	20	-	-	-	-	4	SEC CLOSET "D"	ETR	1	20	
5	LIGHTS HI HATS CORR 2017	ETR	1	20	-	-	-	-	6	SECURITY EQUIP 2191	ETR	1	20	
7	CASH ROOM FOR CAFE (1) #10-3/4"C	ETR	1	20	-	-	-	-	8	LIGHTS CORR 2125	ETR	1	20	
9	REC TV CORR RM 2016	ETR	1	20	-	-	-	-	10	GALLERY DOOR LOCKS	ETR	1	20	
11	SPARE	ETR	1	20	-	-	-	-	12	SECURITY CLOSET B	ETR	1	20	
13	SECURITY EQUIP RM 2145	ETR	1	20	-	-	-	-	14	LTS LOBBY D 2188	ETR	1	20	
15	SEC CLOSET "D"	ETR	1	20	-	-	-	-	16	LGTS LOBBY D 2188	ETR	1	20	
17	SEC CLOSET "B"	ETR	1	20	-	-	-	-	18	SEC CLOSET "B" TCP 2024	ETR	1	20	
19	SPARE	ETR	1	20	-	-	-	-	20	SPARE	ETR	1	20	
21	NITE LITE (RECEPTION...)	ETR	1	20	-	-	-	-	22	SECURITY CLOSET "B"	ETR	1	20	
23	SPARE	ETR	1	20	-	-	-	-	24	SPARE	ETR	1	20	
25	SPARE	ETR	1	20	-	-	-	-	26	MAIN CIRCUIT BREAKER	ETR	3	100	
27	SPARE	ETR	1	20	-	-	-	-	28	-	ETR	-	-	-
29	SPARE	ETR	1	20	-	-	-	-	30	-	ETR	-	-	-

PANEL IS A FEDERAL PACIFIC NQLP MODEL. CIRCUIT BREAKERS ARE ETR. MAIN BREAKER (POLE SPACES 38/40/42)

NOTES:
 1. USE EXISTING SPARE CIRCUIT BREAKER.

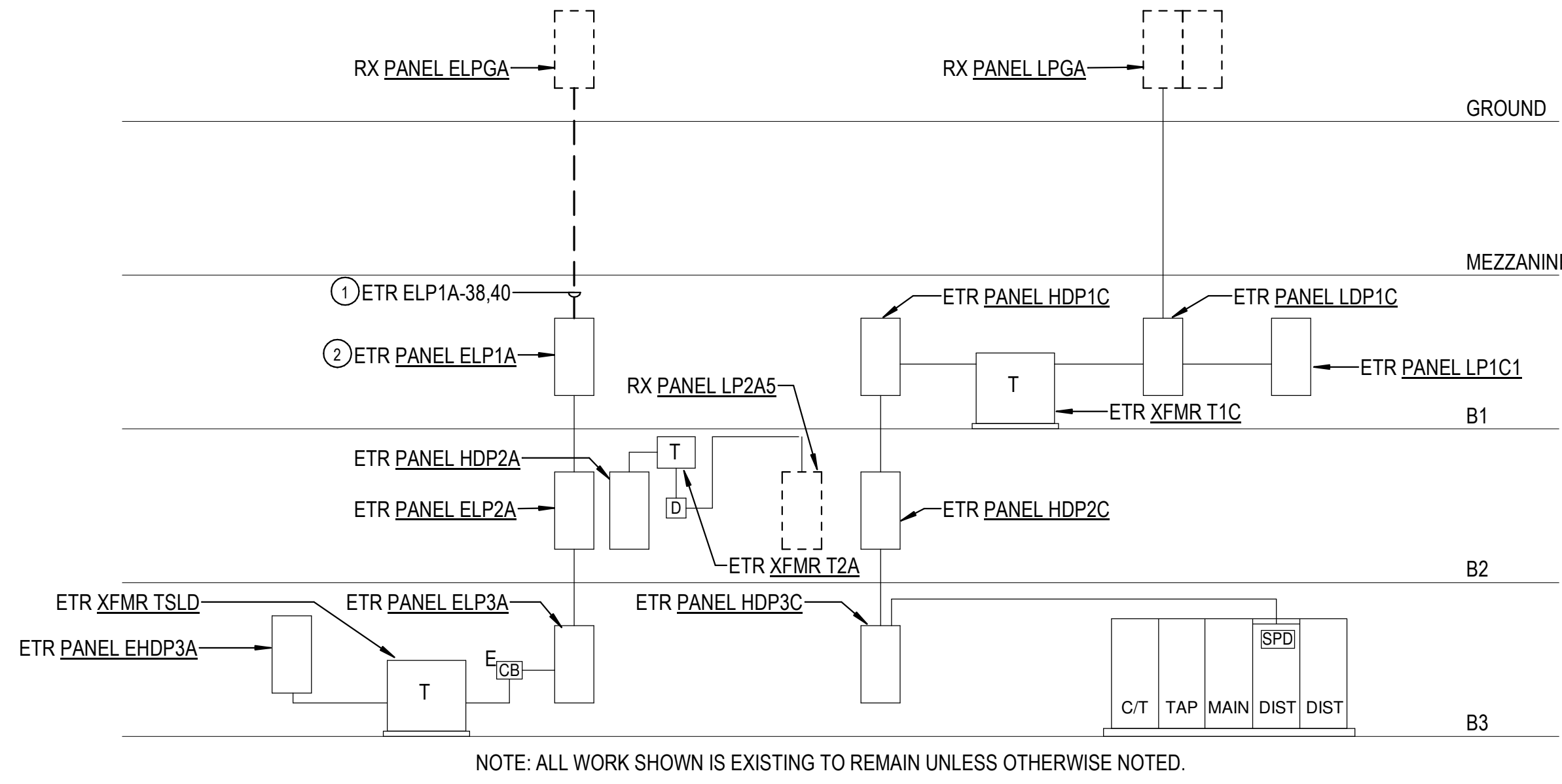
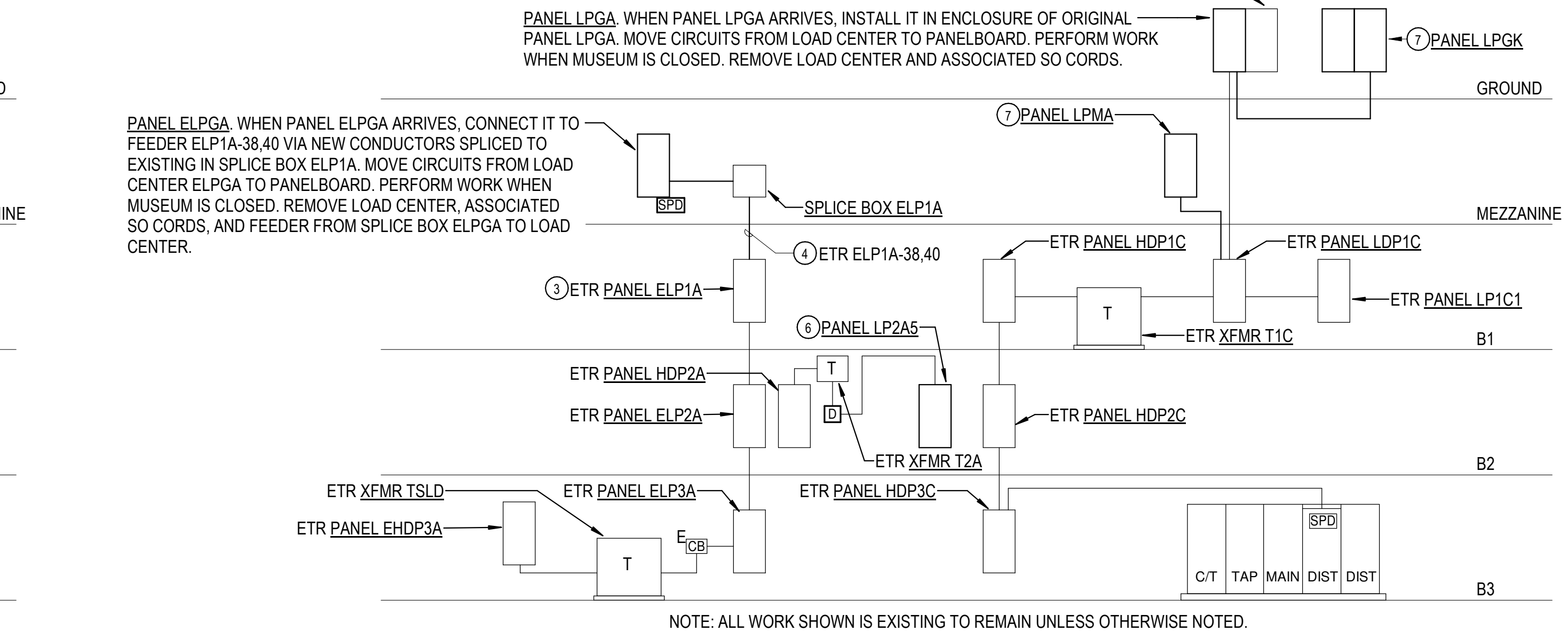
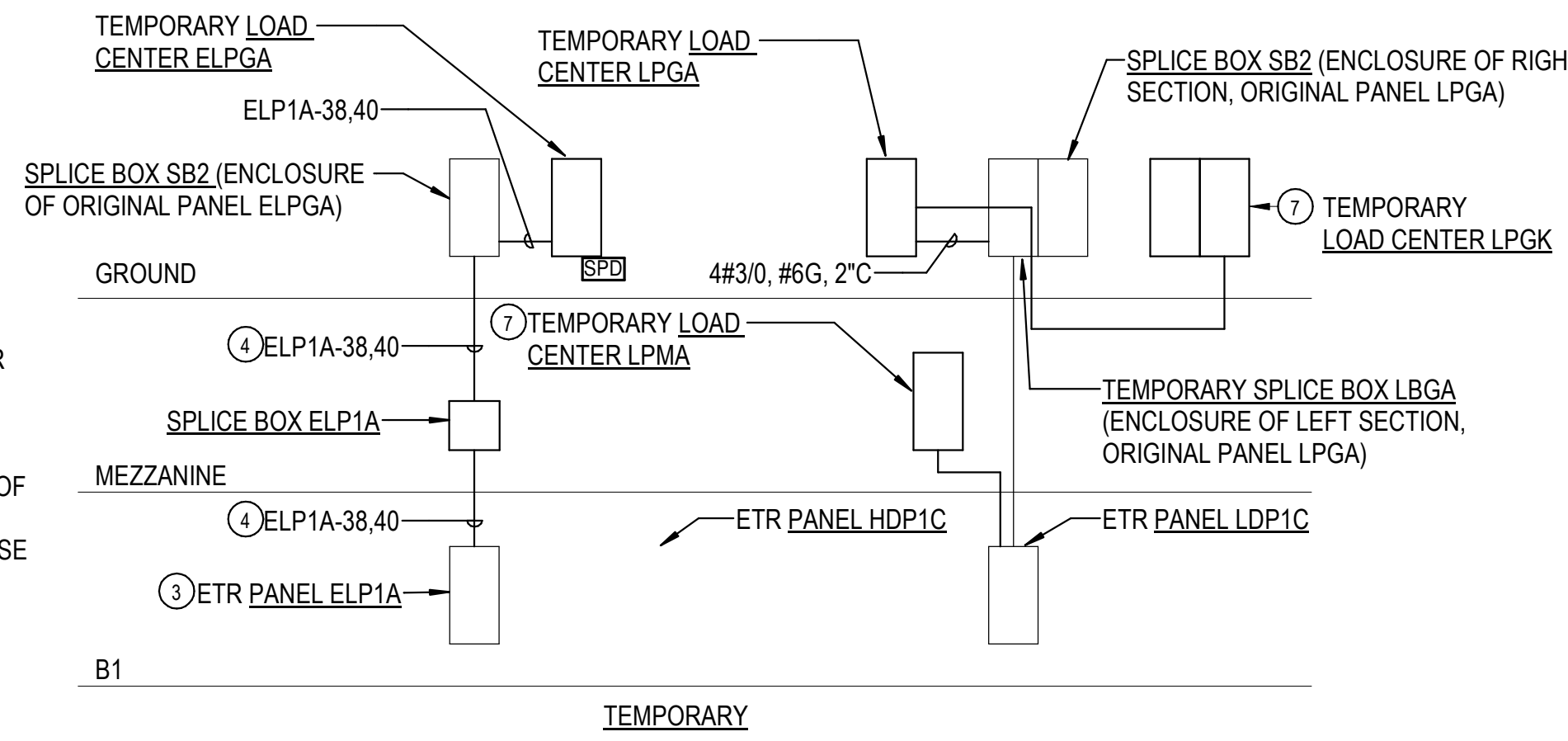
MIN AIC RATING = 10,000 AMPS SYMMETRICAL LOCATION: 2071ER

GENERAL NOTES:

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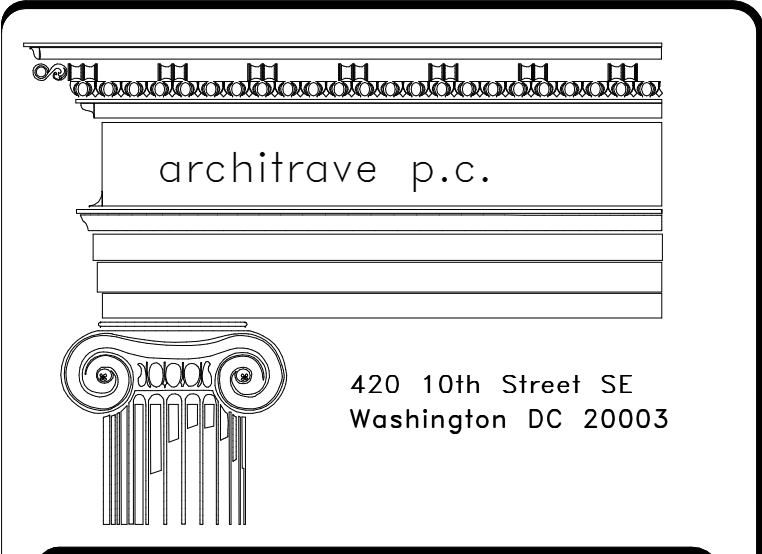
SPECIFIC NOTES:

- ① RECORD DRAWINGS AND PHOTOGRAPHS SUGGEST EXISTING CIRCUIT ELP1A-38,40 SUPPLIES EXISTING PANEL ELPGA, AND IS TWO #6 ENERGIZED CONDUCTORS, ONE #6 NEUTRAL CONDUCTOR, AND ONE #10 EQUIPMENT GROUNDING CONDUCTOR IN 3/4" RACEWAY. REMOVE EXISTING CONDUCTORS. RACEWAY SHALL REMAIN FOR REUSE.
- ② REMOVE EXISTING TWO-POLE SIXTY-AMPERE CIRCUIT BREAKER IN POLE SPACES 38 AND 40 THAT SERVES EXISTING PANEL ELPGA.
- ③ PROVIDE NEW TWO-POLE EIGHTY-AMPERE CIRCUIT BREAKER, EATON MODEL BAB2080, IN POLE SPACES 38 & 40.
- ④ PROVIDE TWO #6 ENERGIZED CONDUCTORS, ONE #6 NEUTRAL CONDUCTOR, AND ONE BARE #6 EQUIPMENT GROUNDING CONDUCTOR IN EXISTING TO REMAIN 3/4" RACEWAY.
- ⑤ PROGRAM DATA ACQUISITION SERVER TO RECORD WATER CONSUMPTION DATA FROM PULSE-OUTPUT WATER METER AND TO DISPLAY THE DATA WHEN QUERIED.
- ⑥ USE EXISTING PANEL LP2A5 UNTIL NEW PANEL LP2A5 IS AVAILABLE. THERE IS NO NEED FOR A TEMPORARY LOAD CENTER LP2A5.
- ⑦ INSTALL TEMPORARY LOAD CENTER EXACTLY WHERE PANEL IS TO GO. REPLACE LOAD CENTER WITH PANEL WHEN MUSEUM IS CLOSED.

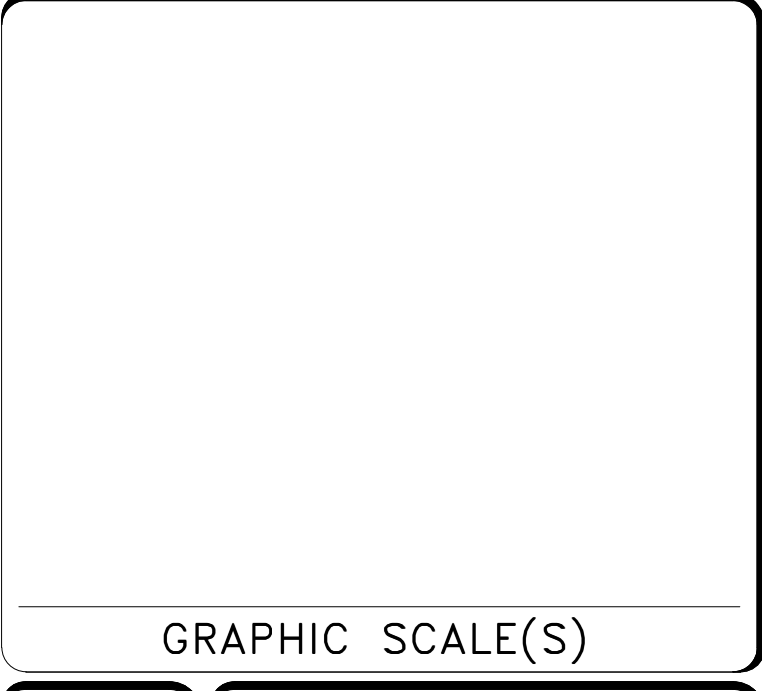
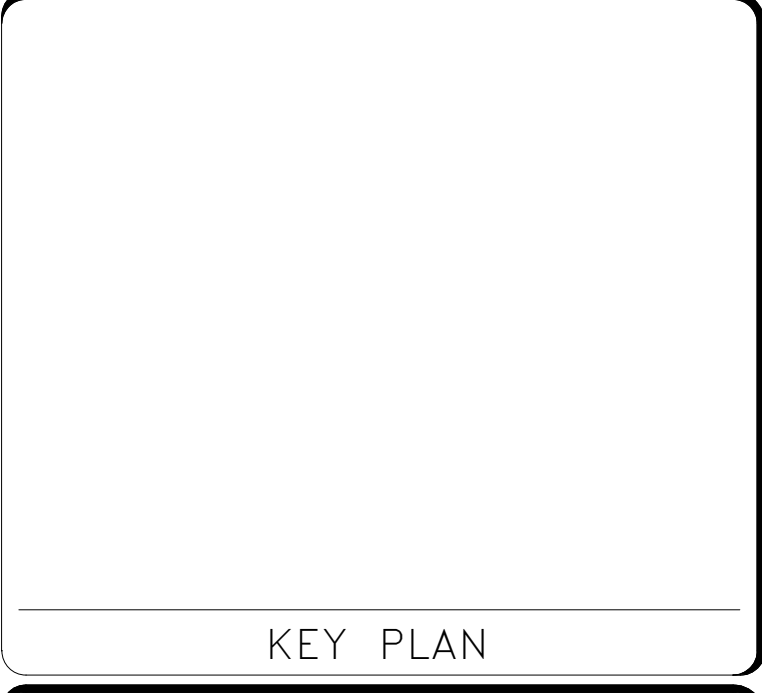
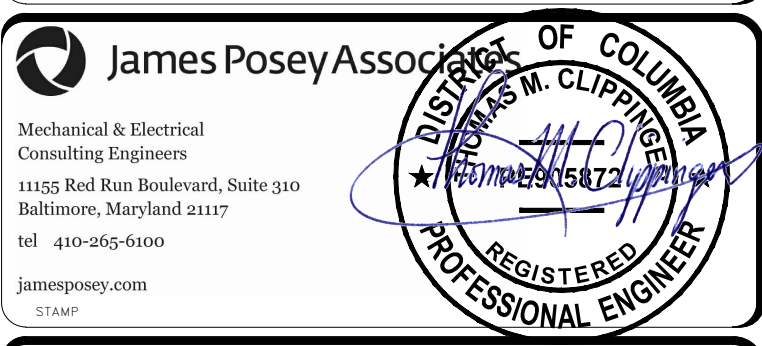


NOTE: ALL WORK SHOWN IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

A1 DIAGRAM- POWER RISER
 E-601D6 SCALE = NOT TO SCALE



FOR CONSTRUCTION



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DRAWING TITLE	ELECTRICAL DIAGRAMS
WORKING STAFF	MRH MRH TMC
SHEET NO.	E - 601D6
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FUSED WIRING PANEL SCHEDULE ELPGA													
120/208 VOLT		3 PHASE 4 WIRE				100 AMP MAINS				SURFACE			
CIR-CUIT	DESCRIPTION	WIRE/RACEWAY	SWITCH POLE	FUSE AMP	A	B	C	FUSE AMP	SWITCH POLE	WIRE/RACEWAY	DESCRIPTION	CIR-CUIT	
1	ETR TRACK LIGHTS WEST BAY	#12-1" C	1	20 A	0.3	0.4		20 A	1	#12-1" C	ETR TRACK LIGHTS CENTER BAY	2	
3	ETR TRACK LIGHTS EAST BAY	#12-1" C	1	20 A		0.4	0.4	20 A	1	#12-1" C	ETR LIGHTING - CENTER BAY	4	
5	ETR LIGHTING - EAST & WEST VEST	#12-1" C	1	20 A	0.7	0.0		20 A	1	#12-3/4" C	PANTRY & ETR DOWNLIGHTS	6	
7	ETR VEST 0021 DOOR OPERATORS	#12-1" C	1	20 A		0.6	3.3	60 A	2	3#6, #10G	ETR GUARD BOOTH AT TOP OF RAMP	8	
9	ETR RECEPTACLES EAST BAY	#12-1" C	1	20 A	0.4	3.3		15 A	1	#12-1" C	ETR RECEPTACLES WEST BAY	12	
11	REC FOR LTG CONTROLS PANTRY	#14-1" C	1	15 A		0.0	0.4	20 A	1	#12-1" C	CAFÉ REFRIGERATOR (1)	14	
13	CAFÉ REFRIGERATOR (1)	#12-3/4" C	1	15 A	0.4	0.4		15 A	1	#12-3/4" C	PANTRY REFRIGERATOR (1)	16	
15	CAFÉ REFRIGERATOR (1)	#12-3/4" C	1	15 A		0.4	0.2	15 A	1	#12-3/4" C	PANTRY REFRIGERATOR (1)	18	
17	PANTRY REFRIGERATOR (1)	#12-3/4" C	1	15 A	0.2	0.2		15 A	1	#12-3/4" C	PANTRY REFRIGERATOR (1)	20	
19	PM MZ FOR ELEC POWER	--	2	20 A		0.0	0.2	15 A	1	#12-3/4" C	DATA ACQUISITION SERVER MZ	22	
21	MONITORING- VOLTAGE SENSE	--	1	--	0.0	0.1		20 A	1	#12-3/4" C	SPACE AND PROVISION	24	
23	CAFÉ ICE MAKER (1)	#12-3/4" C	1	15 A		0.7	0.2	20 A	1	#12-3/4" C	SPACE AND PROVISION	26	
25	SPACE AND PROVISION	--	1	--	--	--	--	--	1	--	SURGE PROTECTIVE DEVICE SPD-ELPGA	28	
27	SPACE AND PROVISION	--	1	--	--	--	0.0	30 A	2	3#10, #10G 3/4" C	SPACE AND PROVISION	30	
29	SPACE AND PROVISION	--	1	--	--	0.0	6.8						

CONNECTED LOAD = 13.4 KVA
DEMAND LOAD = 12.3 KVA
MIN AIC RATING = 10000 AMPS SYMMETRICAL

MAIN LUG ONLY
NUMBER OF... 1
LOCATION MEZZANINE 001A

LOAD	LOAD CLASSIFICATION	DESCRIPTION	CONNECTED (VA)	DEMAND (VA)	PANEL TOTALS
ELEV	ELEVATOR	PER NEC TABLE 620.14	0 VA	0 VA	
EQP	EQUIPMENT	100% CONTINUOUS LOAD	7452 VA	7452 VA	TOTAL LOAD (CONNECTED): 13.4 KVA
KIT	KITCHEN EQUIPMENT	PER NEC TABLE 220.56	2928 VA	1903 VA	TOTAL CURRENT (CONNECTED): 64 A
LTG	LIGHTING	100% CONTINUOUS LOAD	2221 VA	0 VA	
MECH	MECHANICAL	100% CONTINUOUS LOAD	0 VA	0 VA	TOTAL LOAD (DEMAND): 12331 VA
REC	RECEPTACLE	PER NEC TABLE 220.44	735 VA	735 VA	TOTAL CURRENT (DEMAND): 59 A

NOTES:
LOADS ARE ETR UON. RACEWAY SIZES ARE FOR RACEWAYS FROM NEW PANEL ELPGA TO SPLICE BOX S82.
FORMER CIRCUIT #13 BECOMES CIRCUIT #9.
PROVIDE DOOR-IN-DOOR COVER.
1. PROVIDE C(T)(S) TO MONITOR CURRENT. SEE DIAGRAM F1/E601DG. PROVIDE 3/4" RACEWAY. RUN RACEWAY FOR FUTURE THROUGH STAND-ALONE GFCI DEVICE MOUNTED ADJACENT TO PANEL.
2. CONNECT TO DATA ACQUISITION SERVER MZ.

NOTE: TEMPORARY LOAD CENTER ELPGA SHALL HAVE PLUG-IN CIRCUIT BREAKERS WHERE THE FUSED PANELBOARD HAS FUSED SWITCHES. TEMPORARY LOAD CENTER ELPGA CIRCUIT BREAKERS THAT SUPPLY CIRCUITS REQUIRING GFCI PROTECTION (REFRIGERATORS AND ICE-MAKER) SHALL BE GFCI TYPE.

WIRING PANEL SCHEDULE LPGK														
120/208 VOLTS		3 PHASE 4 WIRE				100 AMP MAINS				SURFACE				
CIR-CUIT	DESCRIPTION	WIRE/RACEWAY	POLE	AMP	A	B	C	AMP	POLE	WIRE/RACEWAY	DESCRIPTION	CIR-CUIT		
1	MENU BOARDS (2)	#12-3/4" C	1	20 A	0.5	0.7		20 A	1	#12-3/4" C	SOUP KETTLE	2		
3	ESPRESSO MACHINE (2)	2#10, #12G, 3/4" C	2	30 A		3.0	1.5	20 A	1	#12-3/4" C	HOT WATER DISPENSER	4		
5	COUNTERTOP DISPLAY CASE (2)	#12-3/4" C	1	20 A	0.2	2.5		30 A	2	2#10, #12G, 3/4" C	RAPID COOK OVEN (2)	6		
7	MILLWORK LIGHTING	#12-3/4" C	1	20 A		0.3	0.4	20 A	1	#12-3/4" C	POINT OF SALE REGISTER	10		
9	RICE COOKER	#12-3/4" C	1	20 A			0.7	--	--	--	SPACE AND PROVISION	12		
11	COLD FOOD WELL	#12-3/4" C	1	20 A	0.7	--		--	--	--	SUBFEED LUGS	14		
15	SPARE (2)	--	1	20 A		0.0	--	--	--	--	SUBFEED LUGS	16		
17	SPARE	--	1	20 A			0.0	--	--	--	SUBFEED LUGS	18		
19	SPARE (2)	--	2	15 A	0.0	0.7		20 A	1	#12-3/4" C	RICE COOKER	20		
21	SPARE (2)	--	2	15 A		0.0	0.4	20 A	1	#12-3/4" C	FOOD PAN WARMER	22		
23	SPARE (2)	--	2	30 A			0.0	1.4	20 A	1	#12-3/4" C	REFRIGERATED DISPLAY CASE (2)	24	
27	BACK COUNTER END RECS	#12-3/4" C	1	20 A		0.4	0.0	20 A	1	--	SPARE (2)	28		
29	SPACE AND PROVISION	--	1	--	--	--	--	0.0	20 A	1	--	SPARE (2)	30	
31	SPACE AND PROVISION	--	1	--	--	0.0	--	--	20 A	2	--	SPARE (2)	32	
33	SPACE AND PROVISION	--	1	--	--	0.0	--	--	20 A	1	--	SPARE (2)	34	
35	SPACE AND PROVISION	--	1	--	--	--	--	--	1	--	SPACE AND PROVISION	36		

CONNECTED LOAD = 19.4 KVA
DEMAND LOAD = 13.9 KVA
MIN AIC RATING = 10000 AMPS SYMMETRICAL

MAIN LUG ONLY
NUMBER OF SECTIONS 2
LOCATION CAFÉ SERVICE 0012A

LOAD	LOAD CLASSIFICATION	DESCRIPTION	CONNECTED (VA)	DEMAND (VA)	PANEL TOTALS
ELEV	ELEVATOR	PER NEC TABLE 620.14	0 VA	0 VA	
EQP	EQUIPMENT	100% CONTINUOUS LOAD	0 VA	0 VA	TOTAL LOAD (CONNECTED): 19.4 KVA
KIT	KITCHEN EQUIPMENT	PER NEC TABLE 220.56	15752 VA	10259 VA	TOTAL CURRENT (CONNECTED): 54 A
LTG	LIGHTING	100% CONTINUOUS LOAD	274 VA	274 VA	
MECH	MECHANICAL	100% CONTINUOUS LOAD	0 VA	0 VA	TOTAL LOAD (DEMAND): 13923 VA
REC	RECEPTACLE	PER NEC TABLE 220.44	2870 VA	2870 VA	TOTAL CURRENT (DEMAND): 39 A

NOTES:
1. PANEL IS A TWO SECTION ASSEMBLY. WITH EACH SECTION HAVING EIGHTEEN POLES. PROVIDE SUBFEED LUGS IN ONE SECTION TO SUPPLY OTHER SECTION.
2. CIRCUIT BREAKER SHALL BE GFCI TYPE.

NOTE: TEMPORARY LOAD CENTER LPGK SHALL HAVE PLUG-IN CIRCUIT BREAKERS WHERE THE PANELBOARD HAS BOLT-IN CIRCUIT BREAKERS. TEMPORARY LOAD CENTER LPGK CIRCUIT BREAKERS SHALL BE OF THE SAME TYPE (E.G., GFCI) AS THE CORRESPONDING BOLT-ON BREAKERS IN PERMANENT CIRCUIT BREAKER PANELBOARD LPGK.

WIRING PANEL SCHEDULE LPGA														
120/208 VOLTS		3 PHASE 4 WIRE				225 AMP MAINS				FLUSH				
CIR-CUIT	DESCRIPTION	WIRE/RACEWAY	POLE	AMP	A	B	C	AMP	POLE	WIRE/RACEWAY	DESCRIPTION	CIR-CUIT		
1	NW PAVILION FLOOR OUTLETS	ETR	1	20 A	1.4	1.3		20 A	1	ETR	NE PAVILION FLOOR OUTLETS	2		
3	SW PAVILION FLOOR OUTLETS	ETR	1	20 A		1.4	1.6	20 A	1	ETR	SE PAVILION FLOOR OUTLETS	4		
5	DOWNLIGHTS WEST BAY	ETR	1	20 A			0.6	0.2	20 A	1	#12-3/4" C	PANTRY REC BY SINK (2)	6	
7	SPARE	--	1	20 A	0.0	3.2		40 A	2	3#6, #10G 3/4" C	DISHWASHER (1)	8		
9	SPARE	--	1	20 A		0.0	3.2					10		
11	SPARE	--	1	20 A			0.0	0.1	20 A	1	ETR	SPOTLIGHTS WEST BAY: NE	12	
13	DOWNLIGHTS EAST BAY	ETR	1	20 A	0.6	0.1		20 A	1	ETR	SPOTLIGHTS WEST BAY: SW	14		
15	TRACK LTG WEST BAY	ETR	1	20 A		0.2	--	--	1	--	SPACE AND PROVISION	16		
17	SPARE	--	1	20 A			0.0	--	--	--	SPACE AND PROVISION	18		
19	SPARE	--	1	20 A	0.0	0.2		20 A	1	ETR	TRACK LTG CENTER BAY	20		
21	SPOTLIGHTS CENTER BAY: NE	ETR	1	20 A		0.1	0.6	20 A	1	ETR	DOWNLIGHTS CENTER BAY	22		
23	SPOTLIGHTS CENTER BAY: SW	ETR	1	20 A			0.1	0.0			POWER METER SC FOR ELECTRICAL POWER MONITORING- VOLTAGE SENSE	24		
25	PANEL LPGK (2)	4#3 #8G 1.25" C	3	100 A	6.0	0.0		15 A	3	4#12 #12G 3/4" C	ETR SPOTLIGHTS EAST BAY: NE	26		
27	SPARE	--	1	20 A		0.1		20 A	1	ETR	SPOTLIGHTS EAST BAY: SW	30		
31	TRACK LTG EAST BAY	ETR	1	20 A		0.2	0.1	20 A	1	ETR	TRACK LTG SOUTH BAY	34		
33	SPARE	--	1	20 A			0.0	0.2	20 A	1	ETR	EQ DOWNLIGHTS SOUTH BAY: SW	36	
37	DOWNLIGHTS ENTRANCE	ETR	1	20 A	0.0	0.2		20 A	1	ETR	EQ DOWNLIGHTS SOUTH BAY: SE	38		
39	EQ DOWNLIGHTS SOUTH BAY: NW	ETR	1	20 A		0.2	0.2	20 A	1	ETR	DOWNLIGHTS SOUTH BAY: SW	40		
41	EQ DOWNLIGHTS SOUTH BAY: NE	ETR	1	20 A			0.2	0.2	20 A	1	ETR	DOWNLIGHTS SOUTH BAY: NE	42	

CONNECTED LOAD = 35.9 KVA
DEMAND LOAD = 28.2 KVA
MIN AIC RATING = 10000 AMPS SYMMETRICAL

MAIN LUG ONLY
NUMBER OF SECTIONS 1
LOCATION PANTRY 0015

LOAD	LOAD CLASSIFICATION	DESCRIPTION	CONNECTED (VA)	DEMAND (VA)	PANEL TOTALS
ELEV	ELEVATOR	PER NEC TABLE 620.14	0 VA	0 VA	
EQP	EQUIPMENT	100% CONTINUOUS LOAD	10 VA	10 VA	TOTAL LOAD (CONNECTED): 35.9 KVA
KIT	KITCHEN EQUIPMENT	PER NEC TABLE 220.56	22096 VA	14362 VA	TOTAL CURRENT (CONNECTED): 100 A
LTG	LIGHTING	100% CONTINUOUS LOAD	988 VA	988 VA	
MECH	MECHANICAL	100% CONTINUOUS LOAD	0 VA	0 VA	TOTAL LOAD (DEMAND): 28190 VA
REC	RECEPTACLE	PER NEC TABLE 220.44	8810 VA	8810 VA	TOTAL CURRENT (DEMAND): 78 A

NOTES:
A. PROVIDE CUSTOM INTERIOR AND COVER TO FIT INTO EXISTING RECESSED ENCLOSURE.
B. WHERE POSSIBLE, CONNECT ETR CIRCUITS FROM OLD PANEL LPGA TO THE SAME CIRCUIT BREAKER AND POLE # IN NEW PANEL LPGA.
(1) PROVIDE GFCI CIRCUIT BREAKER. PROVIDE C(T)(S) TO MONITOR CURRENT. CONNECT C(T) LEADS TO POWER METER SC.
(2) PROVIDE C(T)(S) TO MONITOR CURRENT. CONNECT C(T) LEADS TO POWER METER SC.

NOTE: TEMPORARY LOAD CENTER LPGA SHALL HAVE PLUG-IN CIRCUIT BREAKERS WHERE THE PANELBOARD HAS BOLT-IN CIRCUIT BREAKERS. TEMPORARY LOAD CENTER LPGA CIRCUIT BREAKERS SHALL BE OF THE SAME TYPE (E.G., GFCI) AS THE CORRESPONDING BOLT-ON BREAKERS IN PERMANENT CIRCUIT BREAKER PANELBOARD LPGA.

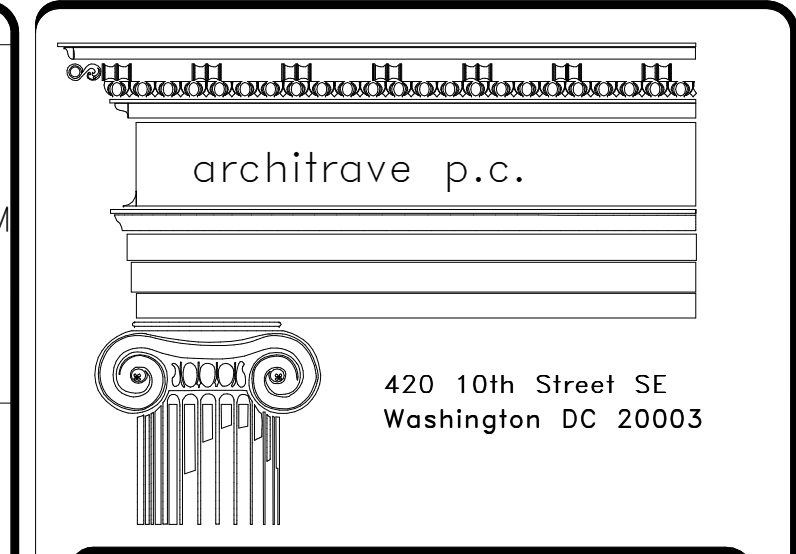
WIRING PANEL SCHEDULE LP2A5															
120/208 VOLTS		3 PHASE 4 WIRE				125 AMP MAINS				FLUSH					
CIR-CUIT	DESCRIPTION	WIRE/RACEWAY	POLE	AMP	A	B	C	AMP	POLE	WIRE/RACEWAY	DESCRIPTION	CIR-CUIT			
1	SHUNT TRIP FOR CIRCUIT 11/35	--	1	--	--	1.1		20 A	1	ETR	ETR UNKNOWN CIRCUIT (OFF)	2			
3	ETR RANGE RECEPTACLE	ETR	2	40 A			0.1	1.9	20 A	1	#12-3/4" C	HEATED HOLDING CABINET	4		
5	ETR INTERCEPTOR LEVEL B3	#12-3/4" C	1	20 A	1.2	0.4		20 A	3	4#12 #12G 3/4" C	ETR GARBAGE DISPOSER AND NEW VOLTAGE SENSE WIRING TO POWER METER KB2. SEE NOTE 4	6			
7	ETR SERVING WINDOW REC RM...	ETR	1	20 A		0.2	0.4					8			
9	ETR TOASTER OUTLET	ETR	2	20 A			1.5	1.8	20 A	1	ETR	ETR UNKNOWN CIRCUIT	10		
13	ETR WORKTABLE RECEPTACLE (3)	ETR	1	20 A	1.5	0.2		20 A	1	ETR	ETR REC BY RM 2019 MICROWAVE	14			
15	ETR NORTH RECEPTACLE	ETR	1	20 A		0.4	1.0		20 A	1	ETR	ETR MICROWAVE RM 2019	16		
17	ETR CLOK & WORKTABLE REC	ETR	1	20 A	0.4	0.2		0.4	1.0	20 A	1	ETR	REACH-IN REFRIGERATOR 1	18	
19	ETR WORKTABLE RECEPTACLE	ETR	1	20 A		0.4	1.4		20 A	1	ETR	ETR NORTH RECEPTACLE	20		
21	REACH-IN REFRIGERATOR 3	ETR	1	20 A			0.2	0.4	20 A	1	ETR	REACH-IN FREEZER	22		
23	REACH-IN REFRIGERATOR 2	ETR	1	20 A	1.0	0.5		0.2	0.4	20 A	1	ETR	ETR MINI FRIDGE RM 2019	24	
25	ONE REC IN ETR QUAD BY RANGE	ETR	1	20 A		0.2	1.1		20 A	1	ETR	ETR RECS RM 2019 SINK, COUNTER	26		
27	ONE REC IN ETR QUAD BY RANGE	ETR	1	20 A		0.2	0.2		20 A	1	ETR	ETR UNKNOWN CIRCUIT	28		
29	ETR OFFICE CUBBYHOLE REC	ETR	1	20 A		0.2	--	--	1	--	SPACE AND PROVISION	34			
33	ETR ICE MAKER	ETR	1	20 A			1.5	2.1				36			
35	ETR UNKNOWN CIRCUIT	ETR	1	20 A	1.8	2.1			20 A	3	ETR	ETR REFRIGERATED STORAGE ROOM (2)	38		
37	RAPID COOK OVEN (NEMA 6-30R)	2#10, #10G 3/4" C	2	30 A		2.5	2.1					40			
41	SEE NOTE 1	--	--	--	--	--	--	2.5	2.5	30 A	1	#10-3/4" C	INDUCTION HOT FOOD COUNTER	42	

CONNECTED LOAD = 40.5 KVA
DEMAND LOAD = 32.9 KVA
MIN AIC RATING = AMPS SYMMETRICAL

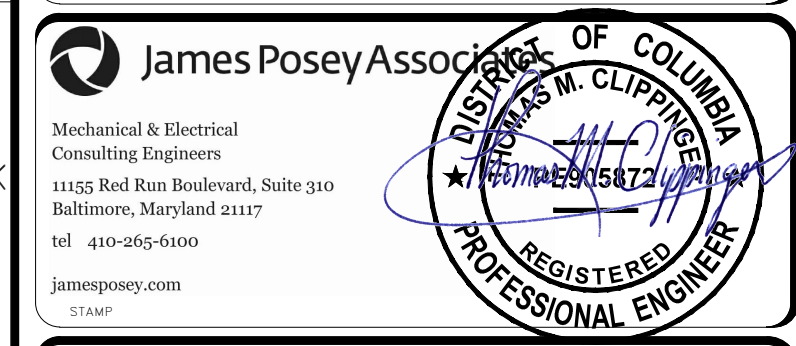
MAIN LUG ONLY
NUMBER OF SECTIONS 1
LOCATION KITCHEN 2020

LOAD	LOAD CLASSIFICATION	DESCRIPTION	CONNECTED (VA)	DEMAND (VA)	PANEL TOTALS
ELEV	ELEVATOR	PER NEC TABLE 620.14	0 VA	0 VA	
EQP	EQUIPMENT	100% CONTINUOUS LOAD	1510 VA	1510 VA	TOTAL LOAD (CONNECTED): 40.5 KVA
KIT	KITCHEN EQUIPMENT	PER NEC TABLE 220.56	20806 VA	13524 VA	TOTAL CURRENT (CONNECTED): 112 A
LTG	LIGHTING	100% CONTINUOUS LOAD	0 VA	0 VA	
MECH	MECHANICAL	100% CONTINUOUS LOAD	7524 VA	7524 VA	TOTAL LOAD (DEMAND): 32868 VA
REC	RECEPTACLE	PER NEC TABLE 220.44	10620 VA	10310 VA	TOTAL CURRENT (DEMAND): 91 A

NOTES:
A. UON. PROVIDE GFCI CIRCUIT BREAKERS.
B. LOADS OF UNIDENTIFIED ETR CIRCUITS ARE ESTIMATES.
1. BASIS OF DESIGN MANUFACTURER STATES CONTINUOUS LOAD WILL BE NO MORE THAN 24 AMPERES, MAXIMUM LOAD IS 29 AMPERES.
2. DO NOT PROVIDE GFCI CIRCUIT BREAKER.
3. CONNECT TO DATA ACQUISITION SERVER KB2.
4. PROVIDE NEW CONDUCTORS IN EXISTING RACEWAY FROM PANEL TO DISPOSER DISCONNECT. SEE DIAGRAM H1/E603DG.



FOR CONSTRUCTION



KEY PLAN

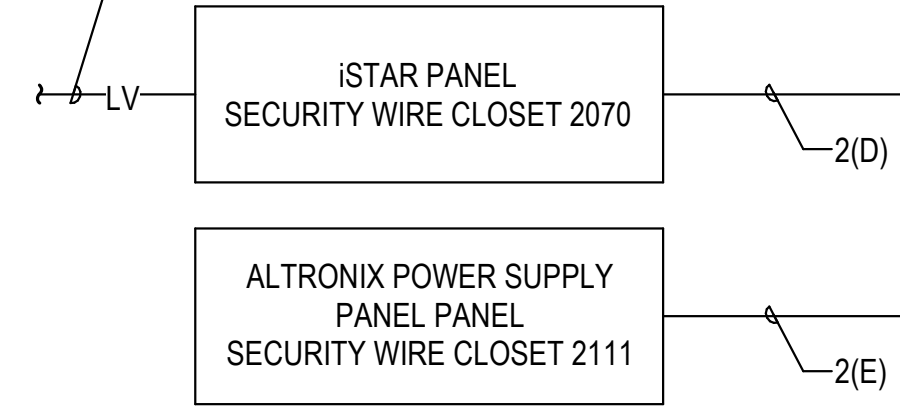
GRAPHIC SCALE(S)	
DATE	07/18/24
REVISION #	1
REVISION DESCRIPTION	Final Construction Documents



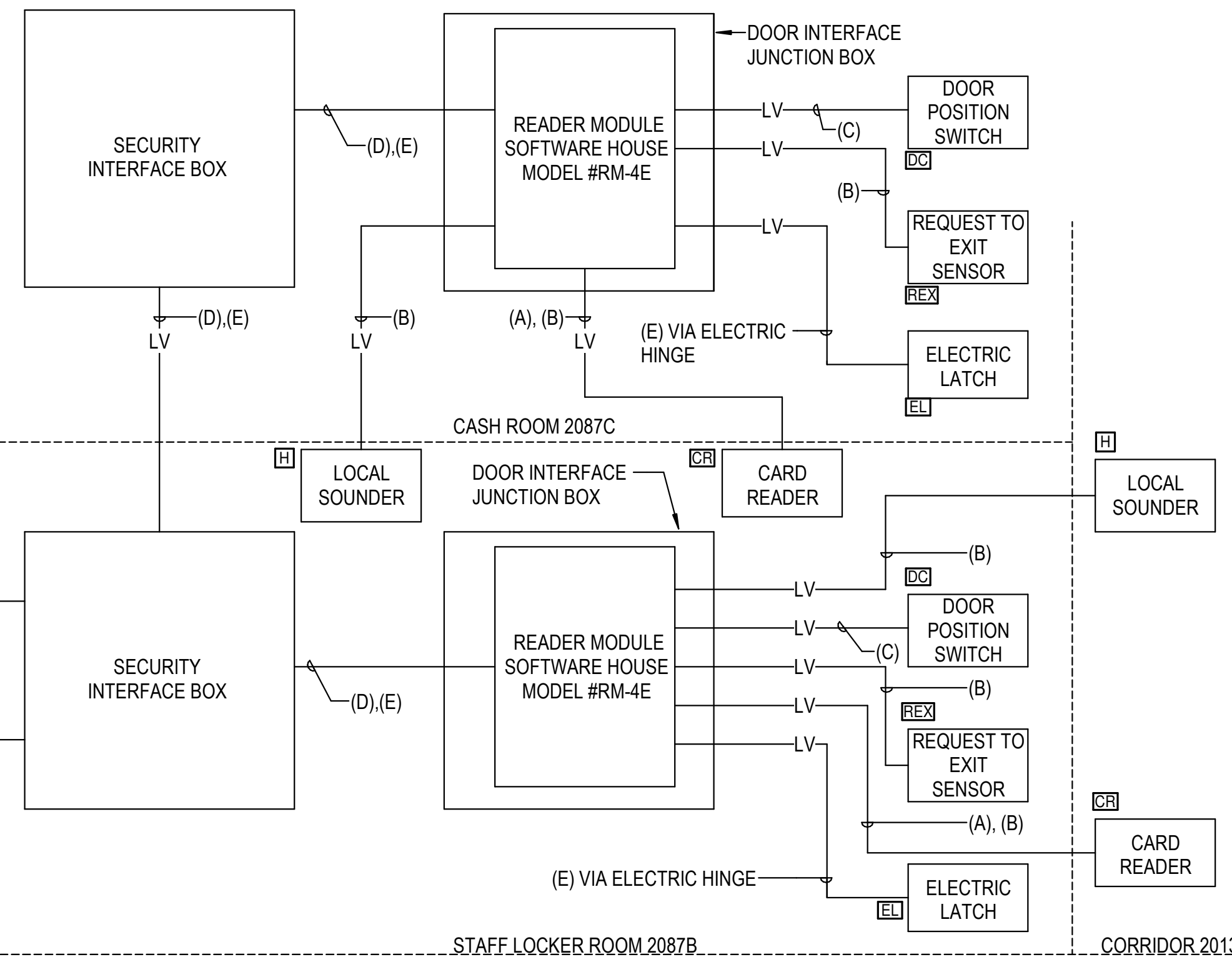
CABLE LEGEND

- A. CARD READER SIGNAL: 6#22 SHIELDED (BELDEN 9942 OR EQUAL).
- B. POWER, REX SIGNAL: 2#18 SHIELDED (BELDEN 8461 OR EQUAL).
- C. DOOR CONTACT SIGNAL: 2 #22 TWISTED SHIELDED PAIR (BELDEN 8442 OR EQUAL)
- D. DOOR CONTACT SIGNAL: 2#24 TWISTED SHIELDED PAIR (BELDEN 9841 OR EQUAL)
- E. CABLE FOR ELECTRIC LATCH POWER AS RECOMMENDED BY THE MANUFACTURER.

(1) CAT 6 PoE TO ETR NETWORK ACCESS SWITCH IN SECURITY WIRE CLOSET 2070

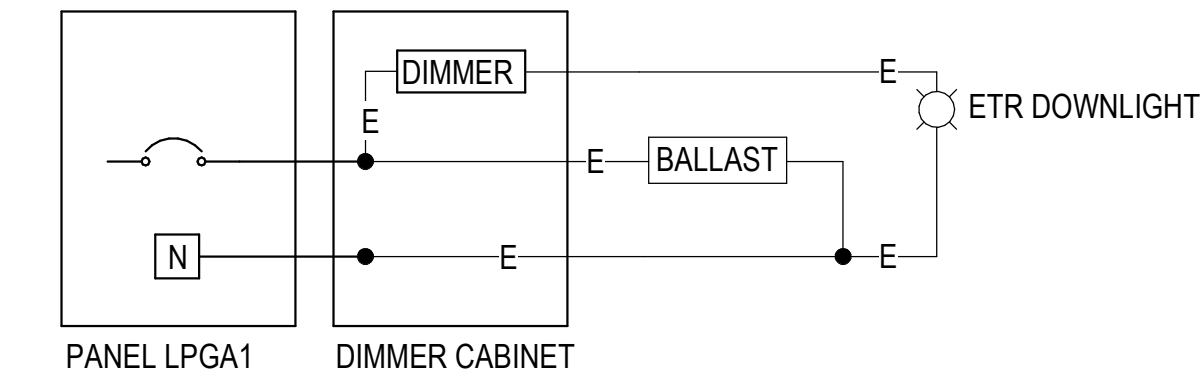


INSTALL CABLES IN RACEWAY FROM EACH DEVICE TO THE DOOR INTERFACE JUNCTION BOX AS INDICATED ON DETAIL H1/E502DT. INSTALL ALL CABLES FROM THE BOX TO THE SECURITY INTERFACE BOX IN A COMMON 27MM (1") RACEWAY.



GENERAL NOTES:

A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.



ETR DOWNLIGHTS ARE CONTROLLED BY ETR DIMMERS. THE DIMMERS ARE SUPPLIED FROM EXISTING PANEL LPGA1. UNDER THIS PROJECT, REPLACE PANEL LPGA1 AND PROVIDE NEW WIRING FROM THE PANEL TO THE DIMMER CABINET AS NEEDED TO RESTORE THE ORIGINAL DOWNLIGHT CIRCUITS.

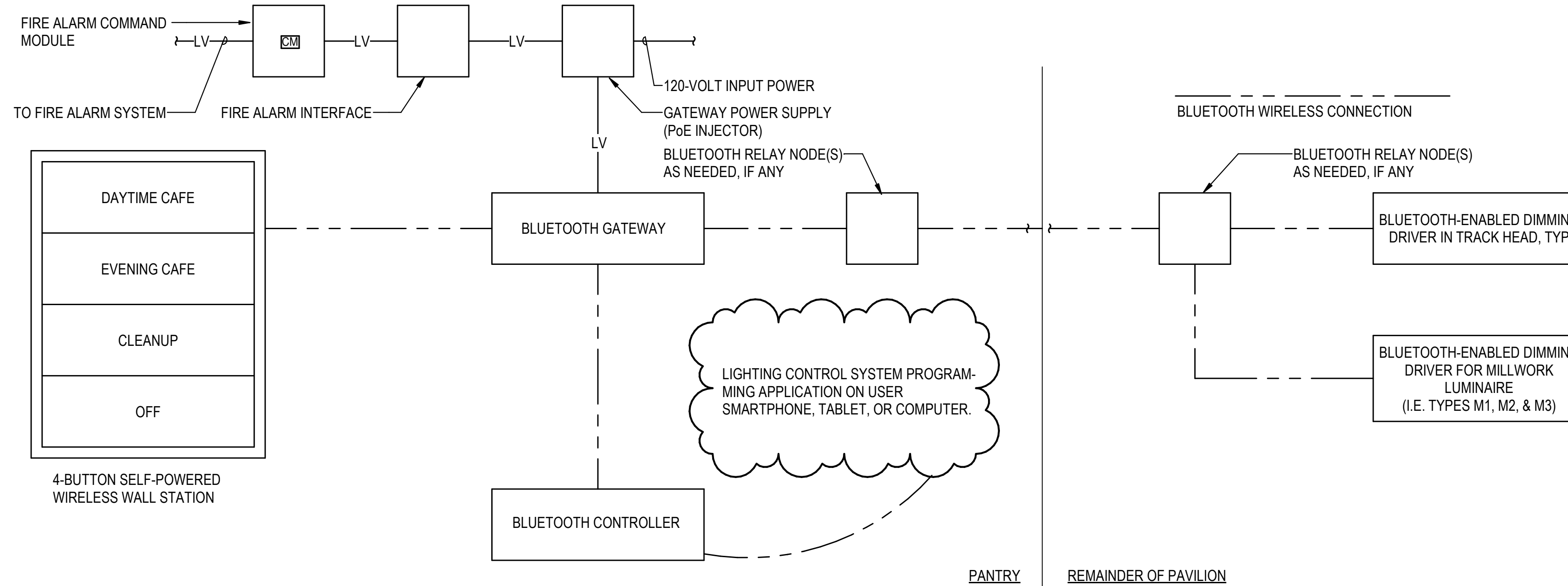
PRIOR TO WORK, DEMONSTRATE CORRECT OPERATION OF DIMMER SWITCHES. IF ANY DIMMER SWITCHES ARE DEFECTIVE, REPORT TO COTR.

H1 ACCESS CONTROL DIAGRAM

SCALE =NO SCALE

H7 DIAGRAM- ETR DOWNLIGHT DIMMING

SCALE =NOT TO SCALE



NOTES:

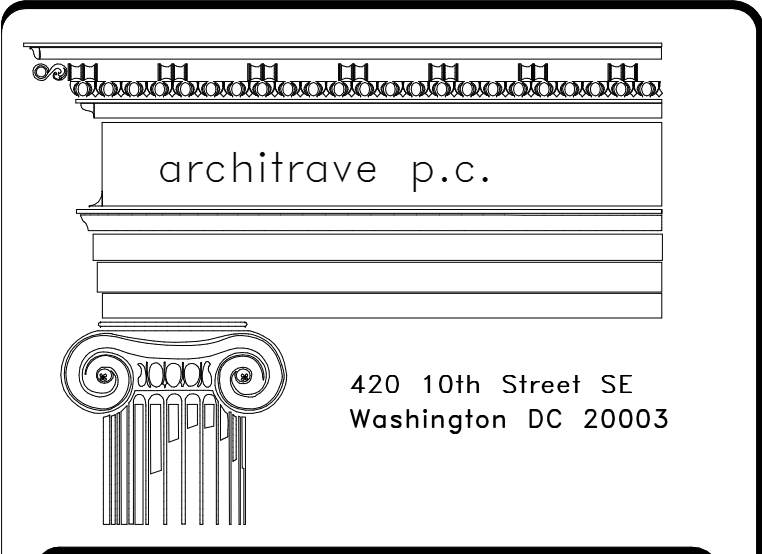
1. SOME POWER CONNECTIONS TO DEVICES OMITTED FOR CLARITY.
2. DESIGN INTENT IS FOR CAFE STAFF TO BE ABLE TO CONTROL FOUR PRE-PROGRAMMED SCENES VIA FOUR-BUTTON CONTROLLER. MUSEUM CURATORIAL STAFF SHALL BE ABLE TO CREATE NEW SCENES BY USING SOFTWARE, AVAILABLE ON MUSEUM SERVER, RUNNING ON BLUETOOTH ENABLED TABLETS, SMARTPHONES, ET CETERA.
3. OPERATION OF ETR MUSEUM LIGHTING SHALL NOT BE AFFECTED BY THIS WORK.
4. ON FIRE ALARM, ALL BLUETOOTH-ENABLED LUMINAIRES TURN ON AT FULL BRIGHTNESS.
5. IF BLUETOOTH SIGNAL IS LOST, ALL BLUETOOTH-ENABLED LUMINAIRES TURN ON AT FULL BRIGHTNESS.

SCENES:

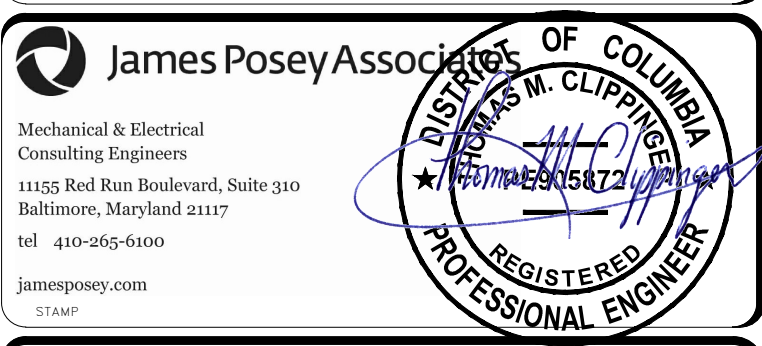
1. DAYTIME CAFE: TRACK HEADS AND MILLWORK LUMINAIRES COME ON AT BRIGHTNESS LEVEL APPROPRIATE TO DAYTIME USE DETERMINED DURING INSTALLATION
2. EVENING CAFE: TRACK HEADS AND MILLWORK LUMINAIRES COME ON AT BRIGHTNESS LEVELS APPROPRIATE TO NIGHTTIME USE AS DETERMINED DURING INSTALLATION.
3. CLEANUP: TRACK HEADS AND MILLWORK LUMINAIRES COME ON AT FULL BRIGHTNESS.
4. OFF: TRACK HEADS AND MILLWORK LUMINAIRES ARE OFF..

A1 DIAGRAM- LIGHTING CONTROLS

SCALE =NO SCALE



FOR CONSTRUCTION



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KEY PLAN

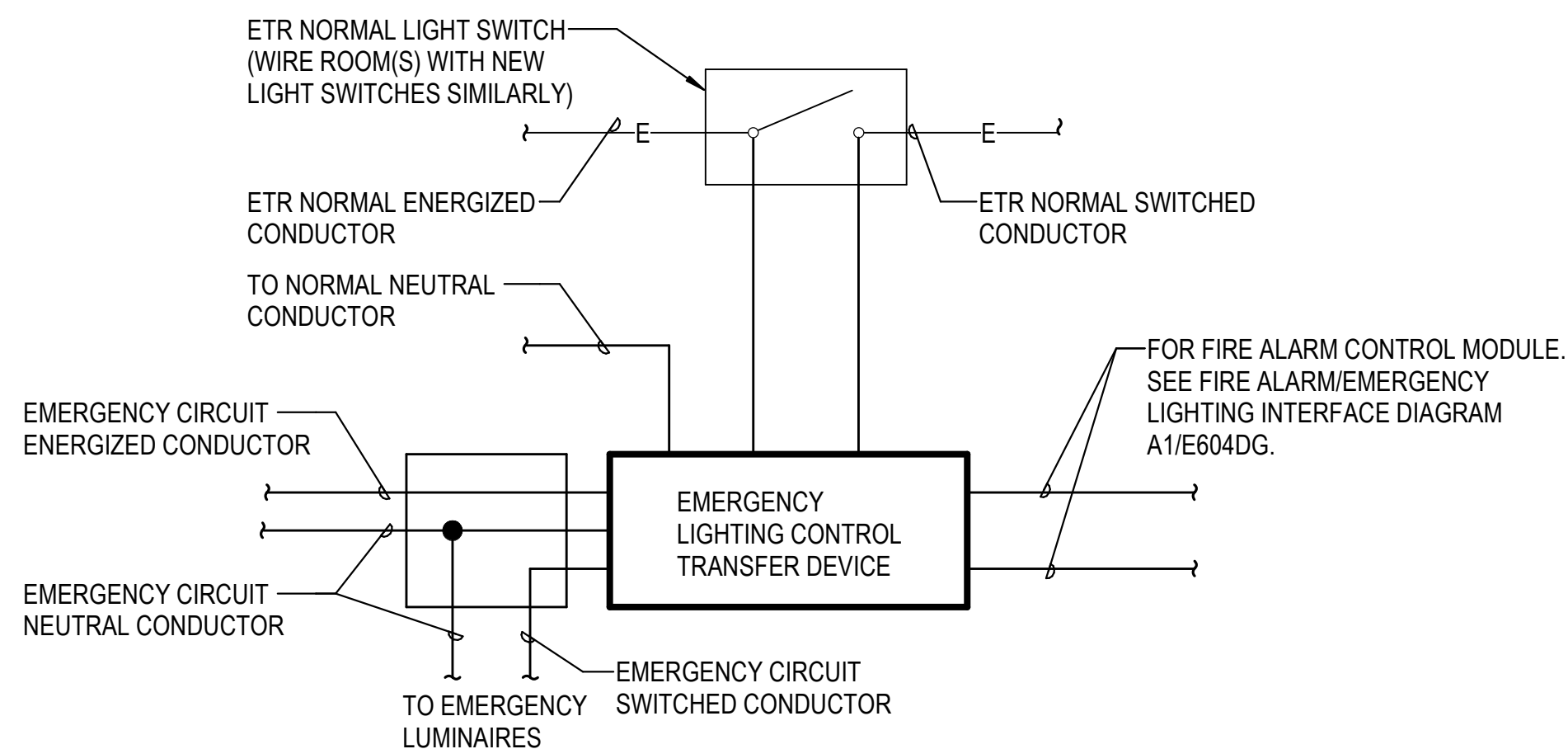
GRAPHIC SCALE(S)

DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	DESCRIPTION	



DESIGNED NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	ELECTRICAL DIAGRAMS
WORKING STAFF	MRH MRH TMC
DESIGNED BY	DRAWN BY
CHECKED BY	
SHEET NO.	E - 603DG
81 of 103	

EMERGENCY LIGHTING CONTROL TRANSFER DEVICE SWITCHES POWER TO EMERGENCY LUMINAIRES TO MATCH STATUS OF NORMAL LUMINAIRES. WHEN NORMAL SWITCH IS "ON", EMERGENCY LUMINAIRES COME ON AS WELL. WHEN NORMAL SWITCH IS "OFF", EMERGENCY LUMINAIRES ARE OFF. WHEN NORMAL POWER SERVING LUMINAIRES IN THE SPACE FAILS, TRANSFER DEVICE FORCES EMERGENCY LUMINAIRES ON. WHEN FIRE ALARM SYSTEM GOES INTO ALARM, TRANSFER DEVICE FORCES EMERGENCY LUMINAIRES ON.



H1
E-604DG
DIAGRAM- EMERGENCY LIGHTING CONTROL
SCALE =NOT TO SCALE

WIRING PANEL SCHEDULE LPMA												
120/208 VOLTS			3 PHASE 4 WIRE			100 AMP MAINS			SURFACE			
CIR-CUIT	DESCRIPTION	WIRE/ RACEWAY	POLE	AMP	A	B	C	AMP	POLE	WIRE/ RACEWAY	DESCRIPTION	CIR-CUIT
1	DWH-1	3#8			2.0	0.3			20 A	1	REC N WALL FOR FLOOD CONTROL	2
3	MEZZANINE	#10G 3/4"	3	50 A		4.0	1.6		20 A	1	REVERSE OSMOSIS RECEPTACLES	4
5							2.0	0.0		1	SPARE	6
7	FOG INTERCEPTOR, MEZZANINE	#12-3/4"	1	20 A	1.3	0.0			20 A	1	SPARE	8
9	SPACE AND PROVISION	--	1	--	--	--	--	--	20 A	1	SPARE	10
11	SPACE AND PROVISION	--	1	--	--	--	--	--	1	--	SPACE AND PROVISION	12
13	SPACE AND PROVISION	--	1	--	--	--	--	--	1	--	SPACE AND PROVISION	14
15	SPACE AND PROVISION	--	1	--	--	--	--	--	1	--	SPACE AND PROVISION	16
17	SPACE AND PROVISION	--	1	--	--	--	--	--	1	--	SPACE AND PROVISION	18

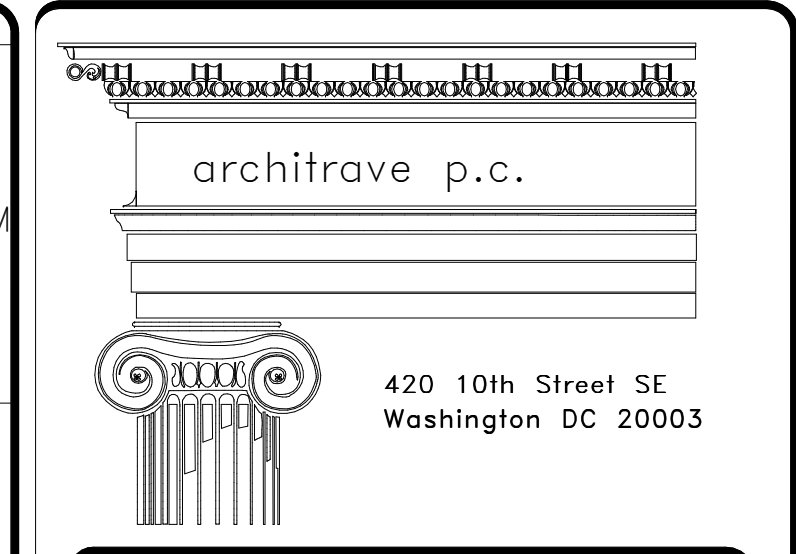
CONNECTED LOAD =	11.1 KVA	MAIN LUG ONLY
DEMAND LOAD =	11.1 KVA	NUMBER OF SECTIONS 1
MIN AIC RATING =	AMPS SYMMETRICAL	LOCATION MEZZANINE 0014

LOAD	LOAD CLASSIFICATION	DESCRIPTION	CONNECTED (VA)	DEMAND (VA)	PANEL TOTALS
ELEV	ELEVATOR	PER NEC TABLE 620.14	0 VA	0 VA	
EQP	EQUIPMENT	100% CONTINUOUS LOAD	0 VA	0 VA	TOTAL LOAD (CONNECTED): 11.1 KVA
KIT	KITCHEN EQUIPMENT	PER NEC TABLE 220.55	0 VA	0 VA	TOTAL CURRENT (CONNECTED): 31 A
LTG	LIGHTING	100% CONTINUOUS LOAD	0 VA	0 VA	
MECH	MECHANICAL	100% CONTINUOUS LOAD	10936 VA	10936 VA	TOTAL LOAD (DEMAND): 11116 VA
REC	RECEPTACLE	PER NEC TABLE 220.44	180 VA	180 VA	TOTAL CURRENT (DEMAND): 31 A

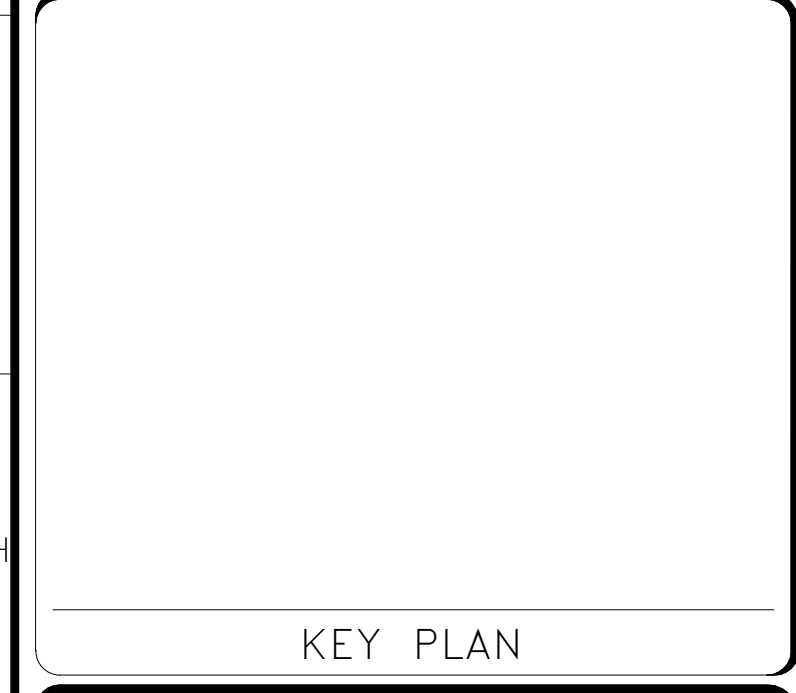
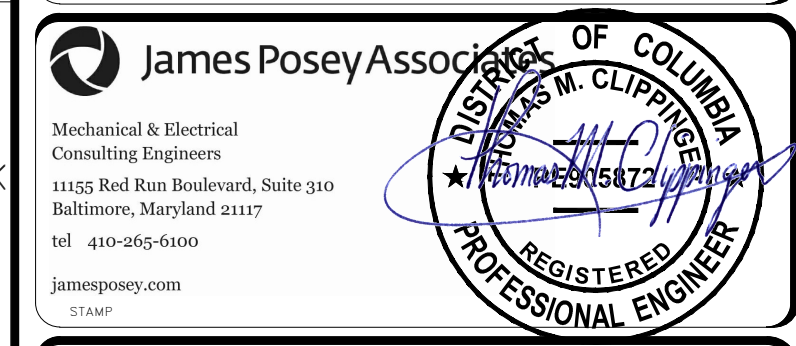
NOTE: TEMPORARY LOAD CENTER LPMA SHALL HAVE PLUG-IN CIRCUIT BREAKERS WHERE THE PANELBOARD HAS BOLT-IN CIRCUIT BREAKERS. TEMPORARY LOAD CENTER LPMA CIRCUIT BREAKERS SHALL BE OF THE SAME TYPE (E.G., GFCI) AS THE CORRESPONDING BOLT-ON BREAKERS IN PERMANENT CIRCUIT BREAKER PANELBOARD LPKG.

GENERAL NOTES:

A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.



FOR CONSTRUCTION



LUMINAIRE SCHEDULE										
TYPE	MANUFACTURER	MODEL	Description	VOLTAGE	LAMP	COLOR TEMPERATURE	WATTAGE	LUMENS	MOUNTING	NOTES
B	CHLORIDE	TNM25-M7F-2-IC-TA	TWO 7W LED HEADS, METAL HOUSING, NI-CAD BATTERY, SELF-TEST, AUDIBLE ALARM	120 V	LED				WALL MOUNTED AT 7'-6"	
K2	DAY-BRITE	2FPZ54L835-2-DS-UNV-DIM-FMA22	2' X 2' FLAT PANEL FOR DRYWALL CEILING, SMOOTH DIFFUSER, 0-10V DIMMING, DAMP LOCATION RATED, 3500K	120 V	LED	3500 K	42 W	5292 lm	RECESSED	
M1	QTL	ATOM-02-SW-4.0-30-I P54-20D-**-BK-CL2-SST-BK-**-O	STATIC WHITE LINEAR, 4W/FT, 3000K, DAMP-LOCATION, BLACK CLASS 2 WIRING, STAINLESS-STEEL MOUNTING, BLACK FINISH, 20-DEG BEAM SPREAD, DIMMABLE	120 V	LED	3500 K	98 W	2130 lm	SURFACE	3, 4
M2	QTL	TILT-01-SW-4.0-30-D MP-DF-**-BK-CL2-SST-BK-**-O	STATIC WHITE LINEAR, 4W/FT, 3000K, DAMP-LOCATION, WHITE CLASS 2 WIRING, STAINLESS-STEEL MOUNTING, SATIN FINISH, 120-DEG BEAM SPREAD, DIMMABLE	120 V	LED	3500 K	11 W	528 lm	SURFACE	3, 5
M3	QTL	KCKR-01-SW-4.0-30-D MP-DF-**-BK-CLR-832-CU(BLACK)-**-O	STATIC WHITE LINEAR, 4W/FT, 3000K, DAMP-LOCATION, WHITE CLASS 2 WIRING, SILICONE MOUNTING, SATIN FINISH, 108-DEG BEAM SPREAD, DIMMABLE	120 V	LED	3500 K	11 W	714 lm	SURFACE	3, 6
TF	EDISON-PRICE	MX-CZL2+XID-1C-OX-38D-WH-BLE-ER-L40A30K	TRACK HEAD, 40-DEGREE FLOOD, BLUETOOTH-ENABLED, 1% DIMMING, WHITE FINISH, 3000K	120 V	LED	3000 K	45 W	2655 lm	TRACK	1, 2
TS	EDISON-PRICE	MX-CZS2+XID+1C-OG-9D-WH-BLE-ER-L30A30K	TRACK HEAD, 9-DEGREE NARROW SPOT, BLUETOOTH-ENABLED, 1% DIMMING, WHITE FINISH, 3000K	120 V	LED	3000 K	45 W	3105 lm	TRACK	1, 2
TW	EDISON-PRICE	MX-CZS2-W+XID-1C-WH-BLE-L40A30K	TRACK HEAD, WALL-WASH, 40DEG BY 70DEG SPREAD, BLUETOOTH-ENABLED, 1% DIMMING, WHITE FINISH, 3000K	120 V	LED	3000 K	31 W	1550 lm	TRACK	1, 2
V	DAY-BRITE	FSX440L835-UNV-DIM	4' LED SEALED STRIP, WET LOCATION RATED, 0-10V DIMMABLE, POLYCARBONATE HOUSING, FROSTED POLYCARBONATE LENS, 3500K	120 V	LED	3500 K	9 W	1380 lm	SURFACE	
VW	DAY-BRITE	FSX440L835-UNV-DIM	AS TYPE V, WALL-MOUNTED	120 V	LED	3500 K	9 W	1380 lm	WALL MOUNTED SURFACE	
X	CHLORIDE	55L3WG	GREEN LED EXIT, 2.22 WATTS, UNIVERSAL MOUNTING, DAMP LOCATION RATED, WHITE DIE-CAST ALUMINIUM HOUSING	120 V	LED				SURFACE	

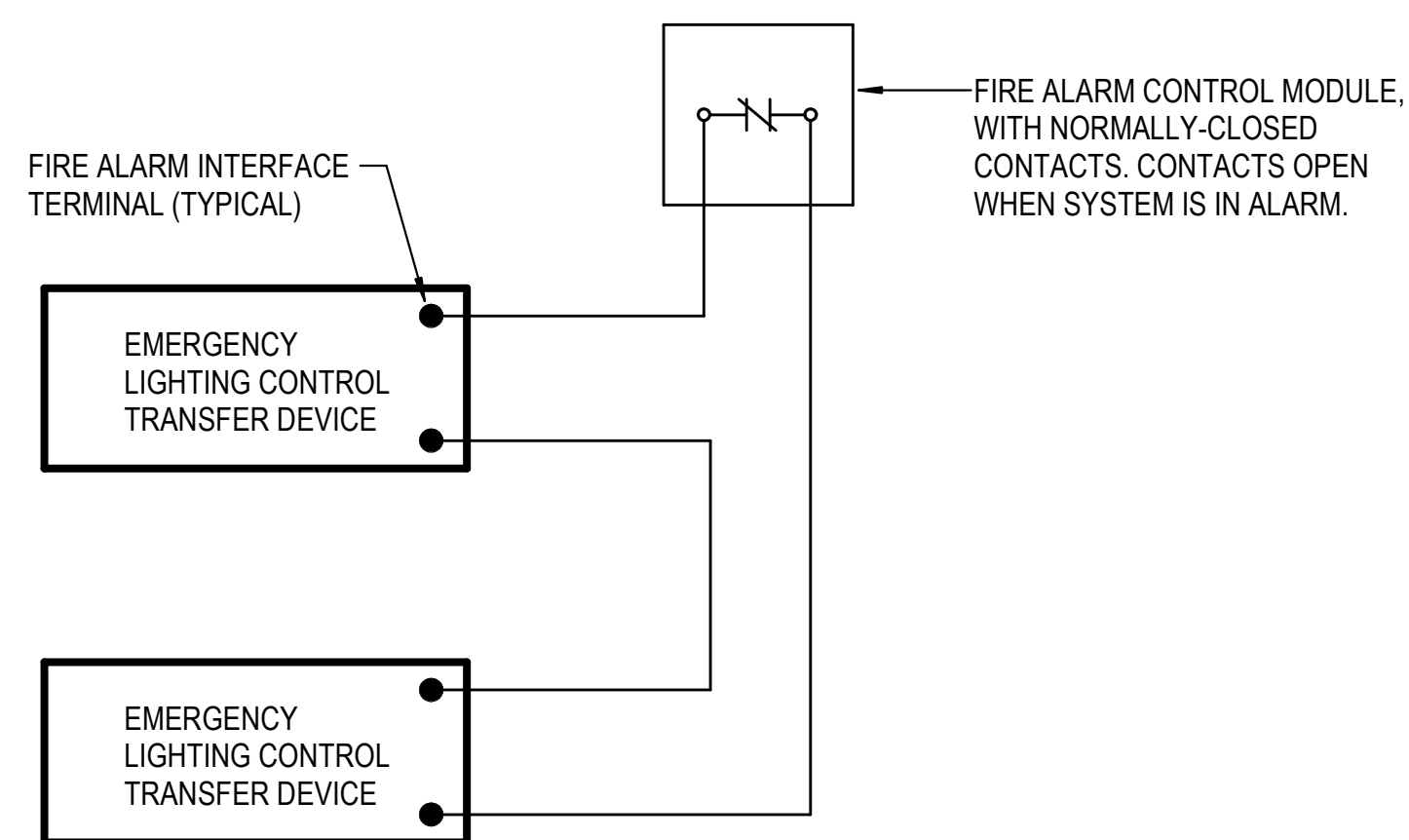
LUMINAIRE SCHEDULE NOTES:

GENERAL NOTES:

A. REPLACEMENT LIGHT TRACK IS NOT DEPICTED IN THE SCHEDULE. IT SHALL BE CUSTOM-MANUFACTURED BY EDISON-PRICE, THE ORIGINAL MANUFACTURER IN THE 1980'S. SEE D1/ED103DP, A5/EL103LP, AND F1/E503DT.

SPECIFIC NOTES:

- TRACK HEADS SHALL BE FURNISHED BY CONTRACTOR, INSTALLED BY OWNER. TRACK HEADS ARE CUSTOM MODELS FROM EDISON-PRICE. WHEN ORDERING, REFERENCE EDISON-PRICE PROJECT 874.
- FURNISH WITH #1C, SINGLE-CIRCUIT, FUSED 'AUTOTRACK' CONNECTOR. TRACK HEAD SHALL BE READY FOR INSTALLATION IN THE EXISTING LIGHT TRACK.
- PROVIDE LED DRIVER COMPATIBLE WITH PROJECT'S BLUETOOTH-ENABLED LIGHTING CONTROL SYSTEM. DRIVER SHALL BE A CLASS 2 POWER SUPPLY. DRIVER MAY SUPPLY MULTIPLE LUMINAIRES OF THE SAME TYPE, IF APPLICABLE. SURFACE MOUNT AS INDICATED ON THE ARCHITECTURAL DRAWINGS. MOUNT DRIVER WHERE SHOWN ON ELECTRICAL DRAWINGS. DRIVER SHALL NOT BE VISIBLE TO AN OBSERVER STANDING IN THE PAVILION. CONCEAL CLASS 2 WIRING FROM DRIVER TO LUMINAIRE. SELECT LUMINAIRE WIRE INPUT/OUTPUT LOCATIONS, CONNECTORS, FITTINGS AND OPTIONS AS NEEDED. SUBMIT SHOP DRAWINGS SHOWING LUMINAIRE, LUMINAIRE MOUNTING, MILLWORK, AND CONCEALED CLASS 2 WIRING FROM DRIVER TO LUMINAIRE.
- ORIENT LUMINAIRE SO AS TO BEST ILLUMINATE THE MILLWORK IMMEDIATELY ABOVE. LENGTH GIVEN IN CATALOG NUMBER IS APPROXIMATE; PROVIDE LUMINAIRE THE LENGTH OF COUNTER (LUMINAIRE LESS THAN ONE INCH SHORTER THAN THE COUNTER IS ACCEPTABLE).
- ORIENT LUMINAIRE SO AS TO BEST ILLUMINATE THE CURVED MILLWORK ABOVE IT. LENGTH GIVEN IN CATALOG NUMBER IS APPROXIMATE; PROVIDE LUMINAIRE THE LENGTH OF COUNTER (LUMINAIRE LESS THAN ONE INCH SHORTER THAN THE COUNTER IS ACCEPTABLE).
- ORIENT LUMINAIRE SO AS TO BEST ILLUMINATE THE SHELF OR COUNTER IMMEDIATELY BELOW IT. LENGTH GIVEN IN CATALOG NUMBER IS APPROXIMATE; PROVIDE LUMINAIRE THE LENGTH OF THE SHELF (LUMINAIRE LESS THAN ONE INCH SHORTER THAN THE SHELVES TO WHICH THEY ARE MOUNTED ARE ACCEPTABLE).



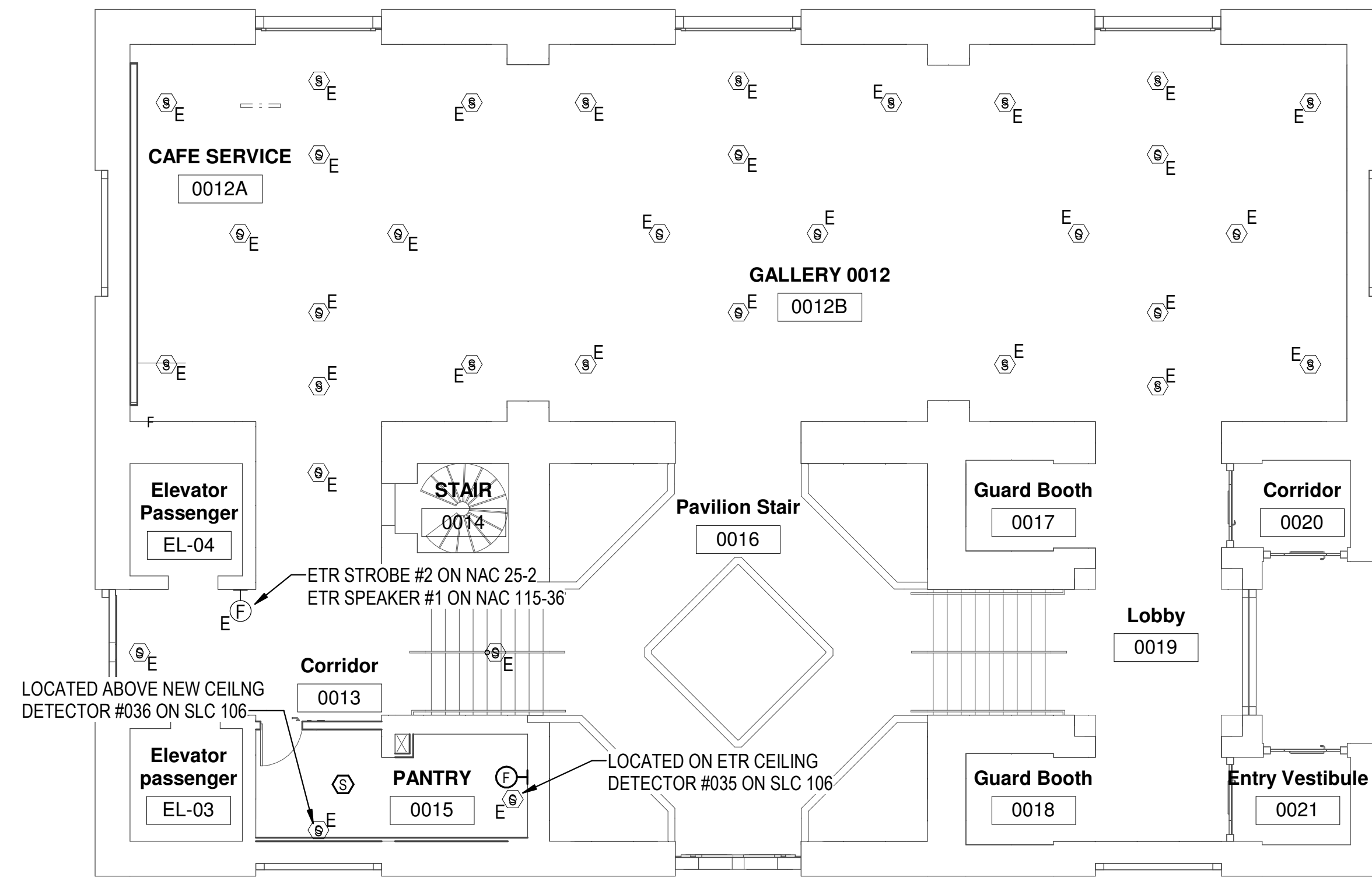
A1
E-604DG
DIAGRAM- FIRE ALARM/EMER LTG INTERFACE
SCALE =NOT TO SCALE



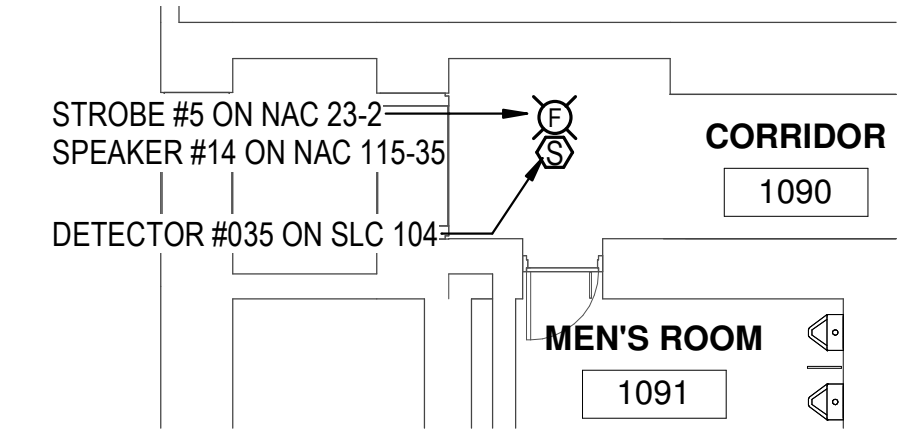
DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	DESCRIPTION	



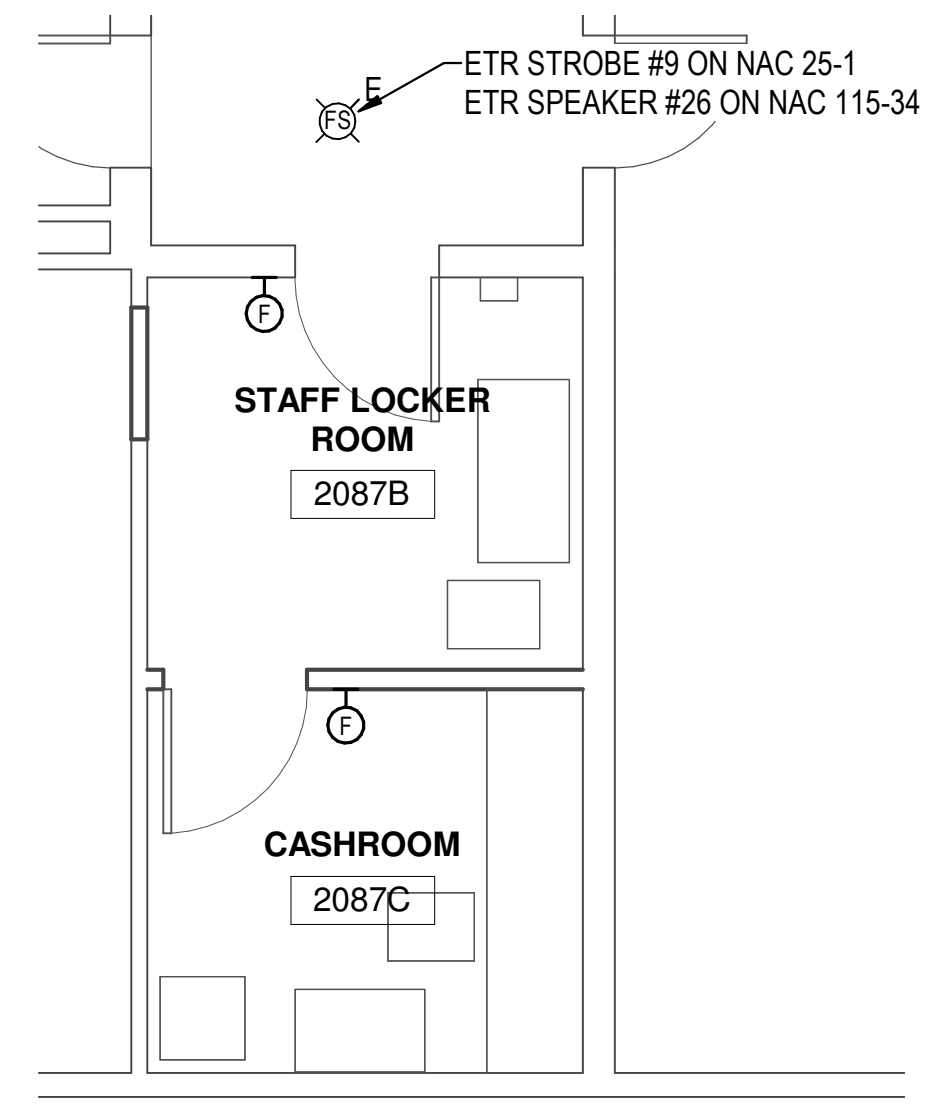
BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	ELECTRICAL DIAGRAMS & SCHEDULES
WORKING STAFF	MRH MRH TMC
SHEET NO.	E - 604 DG
82 of 103	



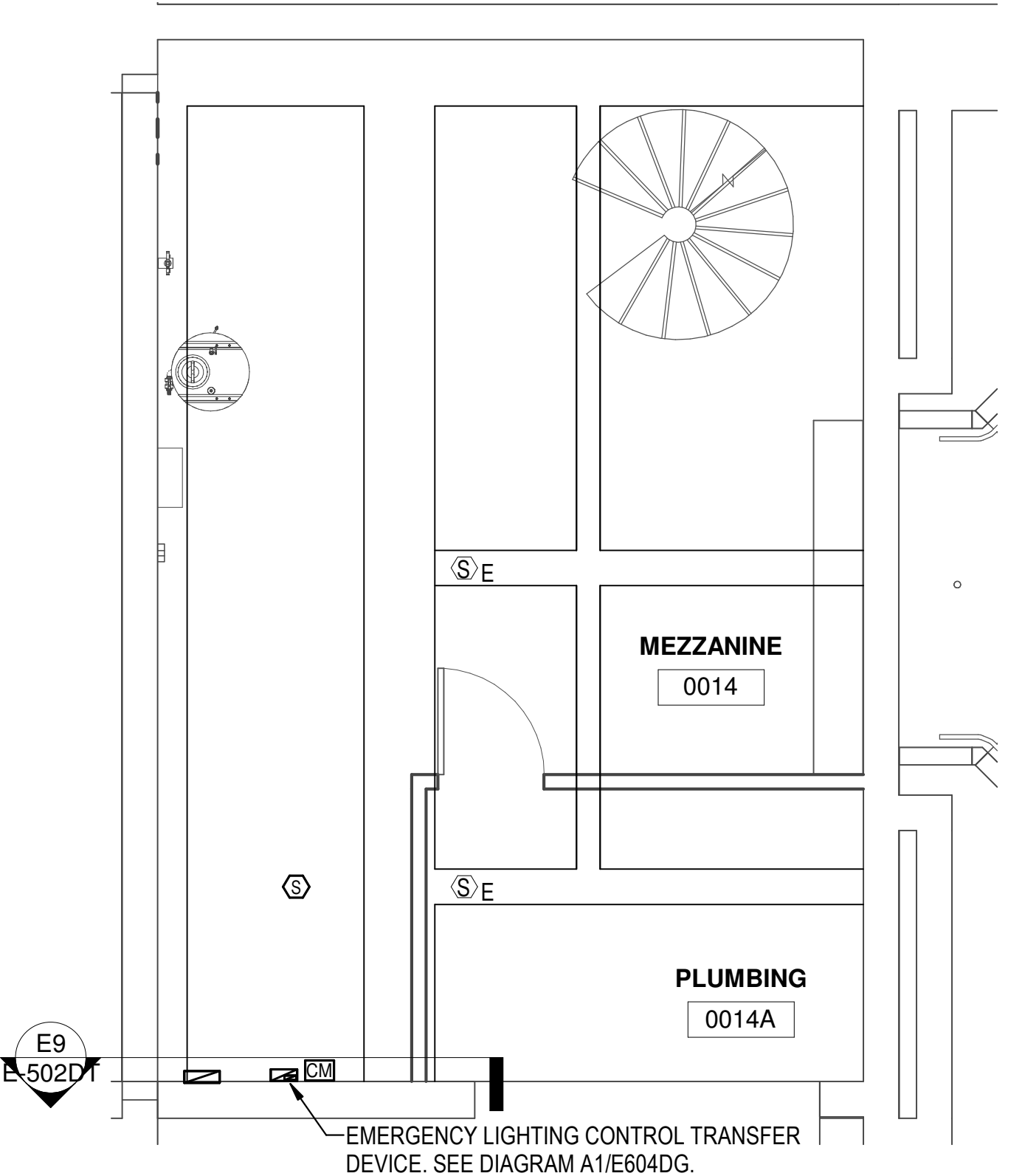
G1 GROUND LEVEL FIRE ALARM PLAN
 FA101FP SCALE = 1/8" = 1'-0"



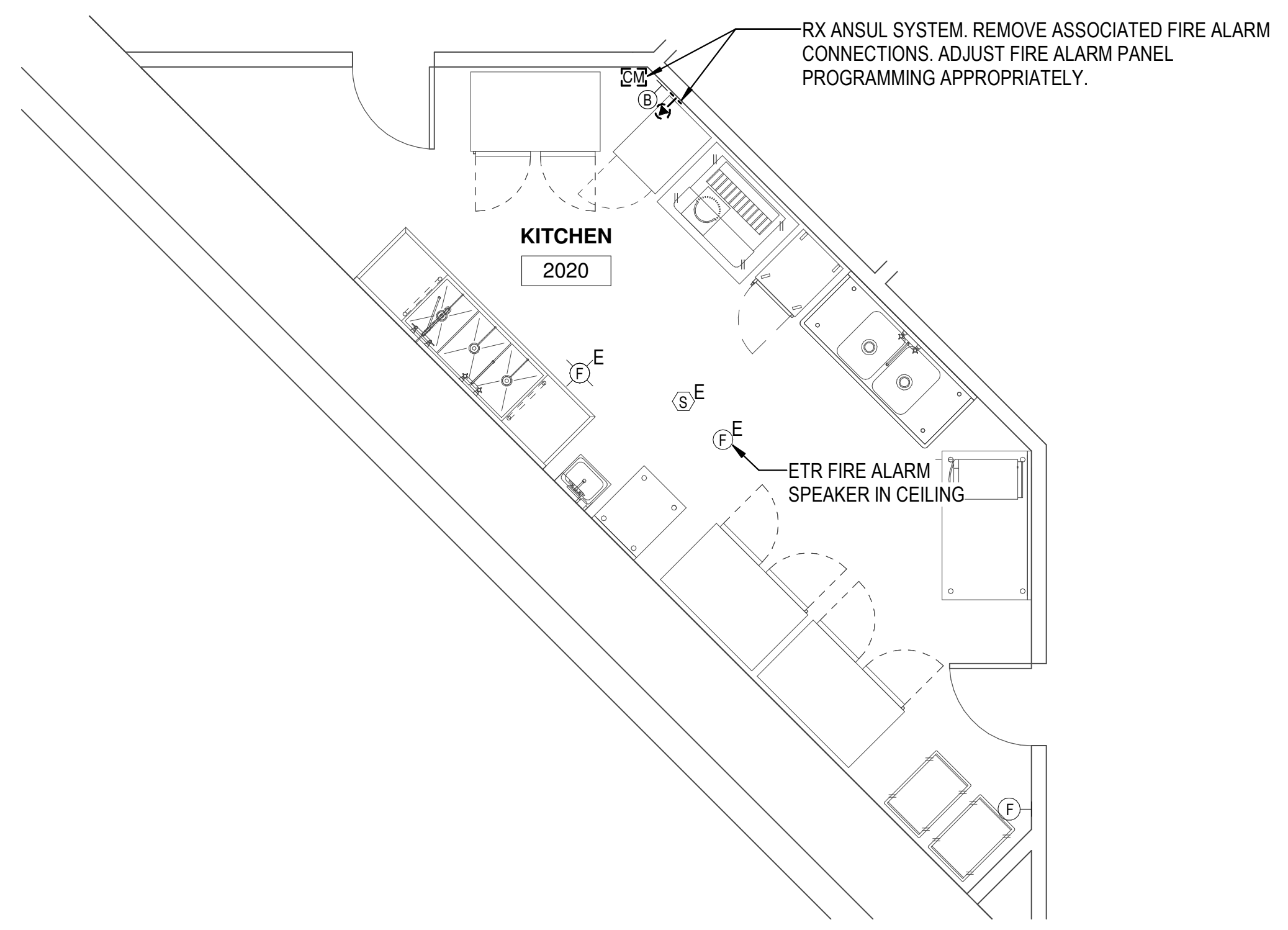
K7 B1 LEVEL FIRE ALARM PLAN
 FA101FP SCALE = 1/8" = 1'-0"



F7 B2 FIRE ALARM PLAN-CASH ROOMS
 FA101FP SCALE = 1/4" = 1'-0"



A1 MEZZANINE FIRE ALARM PLAN
 FA101FP SCALE = 1/4" = 1'-0"



A5 B2 FIRE ALARM PLAN-KITCHEN
 FA101FP SCALE = 1/4" = 1'-0"

GENERAL NOTES:

A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.

ABBREVIATIONS

A	AMP	AMPERES
AFF	ABOVE FINISHED FLOOR	
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE	
DEMO	DEMOLITION	
ETR	EXISTING TO REMAIN	
MEZZ	MEZZANINE	
MIN	MINIMUM	
NAC	EXISTING TO REMAIN NOTIFICATION APPLIANCE CIRCUIT	
RX	REMOVE EXISTING	
SLC	EXISTING TO REMAIN SIGNALING LINE CIRCUIT	
WIRING	CONDUCTORS, WITH ASSOCIATED RACEWAY OR CABLE	

DEMOLITION

- REMOVE EXISTING FIRE ALARM CONTROL MODULE (INTERFACE MODULE) ASSOCIATED WITH KITCHEN HOOD FIRE SUPPRESSION SYSTEM. MODIFY FIRE ALARM CONTROL PANEL PROGRAMMING APPROPRIATELY.
- REMOVE EXISTING FIRE ALARM SPEAKER-STROBE. PROTECT WIRING ABOVE CEILING FOR REUSE. PROVIDE CONTINUITY WIRING AND PROGRAMMING AS NEEDED TO MAINTAIN REMAINING SYSTEM IN OPERATION.
- REMOVE EXISTING SMOKE DETECTOR. PROTECT WIRING ABOVE CEILING FOR REUSE. PROVIDE CONTINUITY WIRING AND PROGRAMMING AS NEEDED TO MAINTAIN REMAINING SYSTEM IN OPERATION.

EXISTING TO REMAIN

- EXISTING RACEWAY AND WIRING TO REMAIN.
- EXISTING TO REMAIN FIRE ALARM SYSTEM AUDIO SIGNAL WITH STROBE, CEILING- OR WALL-MOUNTED AS INDICATED.
- EXISTING TO REMAIN FIRE ALARM STROBE.
- EXISTING TO REMAIN FIRE ALARM SPEAKER.
- EXISTING TO REMAIN FIRE ALARM SMOKE DETECTOR CEILING-MOUNTED.
- EXISTING TO REMAIN FIRE ALARM CONTROL MODULE

NEW

- FIRE ALARM WALL-MOUNTED SPEAKER-STROBE. CONNECT TO EXISTING LOCAL NOTIFICATION APPLIANCE CIRCUITS. 15 CANDELA UNLESS OTHERWISE NOTED.
- FIRE ALARM SMOKE DETECTOR CEILING-MOUNTED. PROVIDE NEW OR REINSTALL UNIT PREVIOUSLY REMOVED AT SAME LOCATION AS APPROPRIATE.
- FIRE ALARM SPEAKER-STROBE, CEILING MOUNTED. REINSTALL UNIT PREVIOUSLY REMOVED AT SAME LOCATION.
- FIRE ALARM CONTROL MODULE (INTERFACE MODULE)

WIRING

- WIRING.
- WIRING UP
- WIRING CONTINUES

NOTES

- A. SEE ELECTRICAL DEMOLITION DRAWINGS FOR FIRE ALARM DEMOLITION WORK.
- B. PRIOR TO ROUGH-IN, VERIFY EXACT LOCATION OF SPECIALTY WIRING DEVICES WITH EQUIPMENT SPECIFIED UNDER OTHER DIVISIONS OR SUPPLIED BY GOVERNMENT.
- C. MOUNTING HEIGHTS ARE TO THE CENTER OF DEVICES UNLESS OTHERWISE NOTED.

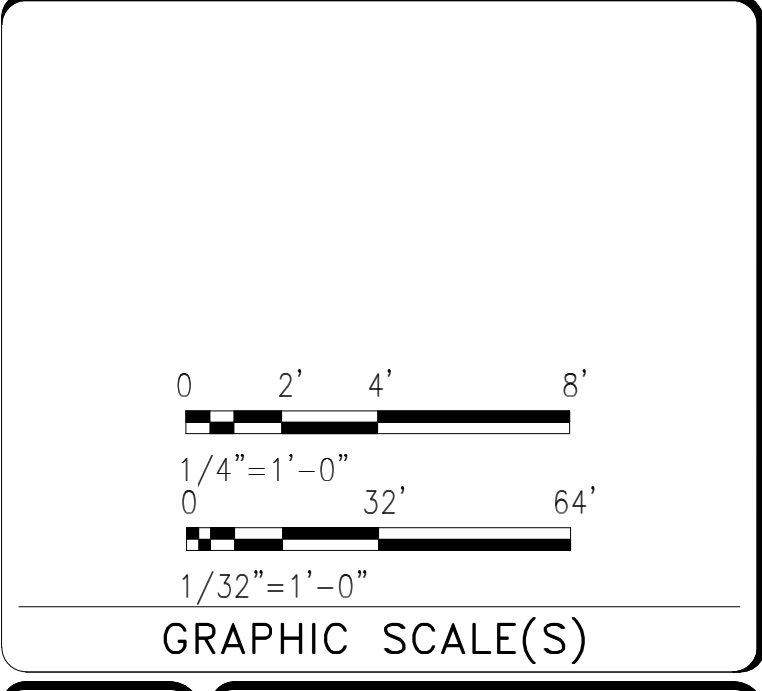
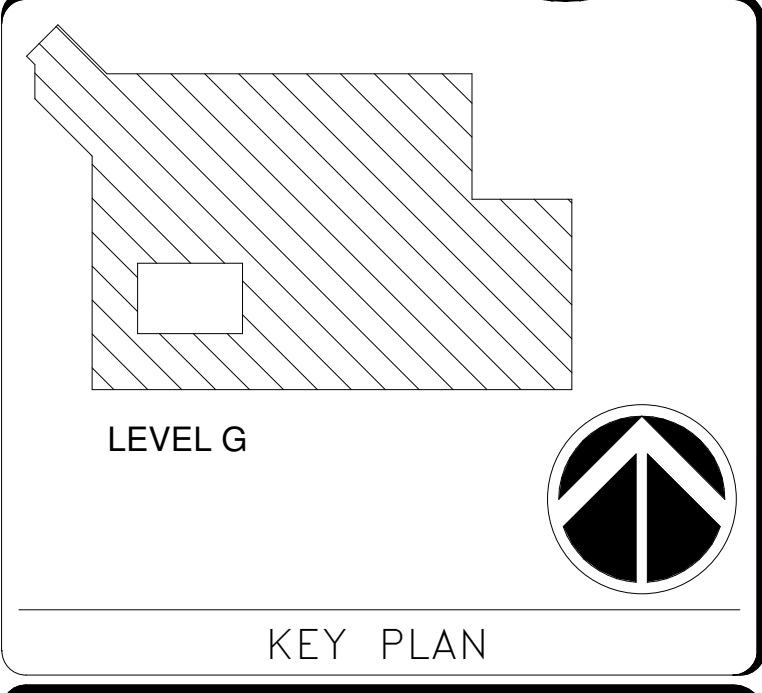
**UNITS OF MEASURE:
 UNITED STATES CUSTOMARY SYSTEM
 TO INTERNATIONAL SYSTEM**

ONE INCH EQUALS 25.4 MILLIMETERS.
 ONE FOOT EQUALS 304.8 MILLIMETERS.

architrave p.c.
 420 10th Street SE
 Washington DC 20003

FOR CONSTRUCTION

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 Consulting Engineers
 1155 Red Run Boulevard, Suite 310
 Baltimore, Maryland 21117
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 jamesposey.com



DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	DESCRIPTION	

Smithsonian Institution
 Smithsonian Facilities
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	FIRE ALARM PLANS
WORKING STAFF	MRH MRH TMC

SHEET NO.	83 of 103
DRAWING NO.	FA101FP

SYMBOLS	
SYMBOL	DESCRIPTION
	COMBINATION STANDPIPE PIPING
	WET SPRINKLER PIPING
	DRAIN PIPING
	PIPE DROP, RISE OR DOWN
	PIPE CONNECTION, TOP
	PIPE CONNECTION, BOTTOM
	PIPE UP
	CAPPED OUTLET
	SPRINKLER ZONE CONTROL ASSEMBLY
	CONCEALED PENDENT SPRINKLER
	RECESSED PENDENT SPRINKLER
	PENDENT SPRINKLER WITH GUARD
	UPRIGHT SPRINKLER WITH GUARD
	POINT OF CONNECTION NEW PIPE TO EXISTING
	PIPE BREAK
	RISER DESIGNATION

ABBREVIATIONS	
SYMBOL	DESCRIPTION
ABD	AUTOMATIC BALL DRIP
BLDG	BUILDING
CLG	CEILING
DN	DOWN
DR	DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FHV	FIRE HOSE VALVE
FS	FLOW SWITCH
GAL	GALLON
GPM	GALLON PER MINUTE
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
NTS	NOT TO SCALE
SP	SPRINKLER
TS	TAMPER SWITCH
TYP	TYPICAL
VLV	VALVE
W/	WITH
W/O	WITHOUT

FIRE PROTECTION SHEET LIST	
SHEET NUMBER	SHEET NAME
FP-001	FIRE PROTECTION GENERAL NOTES
FP-10B1	FIRE PROTECTION B1 LEVEL FLOOR PLAN
FP-101	FIRE PROTECTION MEZZANINE LEVEL FLOOR PLAN
FP-102	FIRE PROTECTION GROUND LEVEL FLOOR PLAN
FP-501	FIRE PROTECTION DETAILS

SCOPE OF WORK

- GENERAL SCOPE OF WORK INVOLVES THE EXTENSION OF THE EXISTING BUILDING SPRINKLER SYSTEM TO COATROOM 0014 ON THE MEZZANINE LEVEL AND THE MODIFICATION OF THE EXISTING BUILDING SPRINKLER SYSTEM IN COATROOM 0015 ON THE PAVILION LEVEL TO ACCOMMODATE A NEW DROP CEILING IN THE ROOM. THE EXISTING SPRINKLER SYSTEM IN ALL OTHER AREAS SHALL NOT BE MODIFIED.
- CONTRACTOR TO PROVIDE ALL SEPARATE MATERIALS, EQUIPMENT, AND LABOR FOR THE COMPLETE EXECUTION OF THE WORK AS HEREIN DESCRIBED. PROVIDE ALL COMPONENTS AND EQUIPMENT NECESSARY FOR A COMPLETE AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS, EVEN IF EACH COMPONENT IS NOT SPECIFICALLY SHOWN ON THE PLANS.

GENERAL FIRE PROTECTION SYSTEMS

- THE FIRE PROTECTION CONTRACTOR SHALL REFER TO THE STRUCTURAL, ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS, ALSO ALL OTHER DRAWINGS ASSOCIATED WITH THE PROJECT PRIOR TO THE INSTALLATION OR ROUGHING IN, FOR COORDINATION AND EXACT LOCATIONS.
- REFER TO ARCHITECTURAL DRAWINGS FOR SUSPENDED CEILING HEIGHTS AND CONSTRUCTION. WHERE WORK BETWEEN THIS DRAWING AND ARCHITECTURAL PLANS ARE IN CONFLICT, ADVISE PRIOR TO INSTALLATION OF PIPING.
- BEFORE SUBMITTING BID, VISIT AND CAREFULLY EXAMINE SITE TO IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. NO EXTRA PAYMENT WILL BE ALLOWED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY EXPERIENCED OBSERVER.
- CONTRACTOR TO LOCATE SPRINKLERS AS REQUIRED UTILIZING ARCHITECT'S REFLECTED CEILING PLAN FOR LOCATION OF LIGHTS, DIFFUSERS, ETC.
- SPRINKLER LOCATIONS SHALL BE COORDINATED AND SYMMETRICAL WITH LIGHTING WHILE PROVIDING COVERAGE AS PER NFPA 13 REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT FOR APPROVAL ALL EQUIPMENT OR MATERIALS, SPRINKLERS, PIPING, FITTINGS, HANGERS, ETC.; PRIOR TO INSTALLATION.
- GUARANTEE ALL MATERIALS, ITEMS OF EQUIPMENT AND WORKMANSHIP FURNISHED UNDER THIS SPECIFICATION SHALL CARRY THE STANDARD WARRANTY AGAINST ANY DEFECTS IN MATERIAL AND WORKMANSHIP OR DESIGN FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE INSTALLATION AND ANY DEFECTS WHICH MAY DEVELOP WITHIN THAT PERIOD SHALL BE MADE GOOD AT THE EXPENSE OF THE FIRE PROTECTION CONTRACTOR.
- BEFORE ANY WORK IS COMMENCED, SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR APPROVAL. SUCH DRAWINGS MUST BE REVIEWED AND APPROVED BY ALL GOVERNING AUTHORITIES BEFORE ANY WORK IS COMMENCED AT THE JOBSITE.

SUBMITTALS

- CONTRACTOR SHALL PROVIDE COORDINATED SHOP DRAWINGS, HYDRAULIC CALCULATIONS AND MANUFACTURER'S SUBMITTALS FOR ALL EQUIPMENT, FIXTURES, PIPING, ETC., FOR REVIEW BY ARCHITECT AND ENGINEER. CONTRACTOR MUST CREATE THEIR OWN COORDINATED SET OF SHOP DRAWINGS FOR THE APPROVALS PROCESS.
- DELEGATED-DESIGN SUBMITTAL: FOR WET-PIPE SPRINKLER SYSTEMS INDICATED TO COMPLY WITH PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA, INCLUDING ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER OR NICET LEVEL III (MINIMUM) CERTIFIED DESIGNER (IN ACCORDANCE WITH REQUIREMENTS BY AUTHORITIES HAVING JURISDICTION) RESPONSIBLE FOR THEIR PREPARATION.
- CONTRACTOR SHALL SUBMIT ELECTRONIC FILES OF SHOP DRAWINGS ON ALL NEW AND EXISTING PIPEWORK LAYOUTS AND CUTS ON ALL EQUIPMENT FOR APPROVAL. CONTRACTOR SHALL BE RESPONSIBLE TO SURVEY THE PIPE WORK (INCLUDING SIZES AND ELEVATIONS) SHOWN TO REMAIN, AND INCLUDE AS PART OF THE FIRE PROTECTION SHOP DRAWINGS. DRAWINGS MUST BE REVIEWED AND APPROVED BY ALL GOVERNING AUTHORITIES BEFORE ANY WORK IS COMMENCED AT THE JOBSITE.
- AFTER ALL WORK IS COMPLETED AND FINAL TESTS AND ADJUSTMENTS ARE DONE, CONTRACTOR SHALL PROVIDE OWNER WITH "AS BUILT" DRAWINGS IN BOTH PAPER (36" X 48" MIN.) AND ELECTRONIC (DWG AND PDF) FORMAT.
- FURNISH TWO (2) COPIES OF WRITTEN DESCRIPTION OF ALL SYSTEMS COVERING ALL MANUAL OPERATING AND MAINTENANCE PROCEDURES, AUTOMATIC CONTROL DESCRIPTIONS AND TEMPERATURE, PRESSURE SETTINGS. WRITTEN DESCRIPTIONS SHALL INCLUDE SERVICE AND MAINTENANCE REQUIREMENTS INCLUDING BUT NOT LIMITED TO PARTS LIST, VALVE SIZE/QUANTITY SCHEDULE, ETC. PROVIDE ONE (1) ELECTRONIC COPY OF ALL MATERIAL.

SHOP DRAWINGS AND DATA

- CONTRACTOR SHALL SUBMIT, FOR APPROVAL, FULLY COORDINATED SHOP DRAWINGS, CAPACITY DATA, HYDRAULIC CALCULATIONS AND CATALOG CUTS. BEFORE ANY WORK IS COMMENCED, SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR APPROVAL. IT IS REQUIRED THAT THE SPRINKLER SYSTEMS BE SIZED HYDRAULICALLY IN ACCORDANCE WITH NFPA STANDARDS. SUBMIT HYDRAULIC CALCULATION OF EACH SYSTEM, SHOWING BALANCED SYSTEM DELIVERY AND BALANCED SUPPLY AND DEMAND. SUCH DRAWINGS AND CALCULATIONS MUST BE REVIEWED AND APPROVED BY ALL GOVERNING AUTHORITIES BEFORE ANY WORK IS COMMENCED AT THE JOBSITE.

SUBSTITUTIONS

- IT IS THE INTENT OF THESE DOCUMENTS THAT WHEREVER A MANUFACTURER IS SPECIFIED AND SUBSTITUTIONS ARE MADE, THEY SHALL CONFORM IN ALL RESPECTS TO THE SPECIFIED ITEM. NO SUBSTITUTIONS OR EDITS TO SPECIFICATION SECTION 211313 SHALL BE PERMITTED WITHOUT APPROVAL FROM OSHEM.
- CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL CHANGES THAT RESULT FROM SUBSTITUTION.
- APPROVAL OF SUBMISSIONS DOES NOT CONSTITUTE A REMOVAL OF CONTRACTOR'S OBLIGATION TO PROVIDE A COMPLETE AND PROPERLY FUNCTIONING SYSTEM.
- ANY EXTRAS AND DEVIATIONS RESULTING FROM THE SUBSTITUTION OF THE ORIGINALLY DESIGNED CONCEPTS OR UTILIZED EQUIPMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND DONE AT NO ADDITIONAL COST TO THE CLIENT.

CODES, PERMITS, AND INSPECTIONS

- FIRE PROTECTION SYSTEMS SHALL COMPLY WITH THE FOLLOWING: SMITHSONIAN INSTITUTION FACILITIES DESIGN STANDARDS, SMITHSONIAN INSTITUTION FIRE PROTECTION AND LIFE SAFETY DESIGN MANUAL, 2021 INTERNATIONAL BUILDING CODE, 2021 INTERNATIONAL FIRE CODE, 2021 NFPA 101, 2022 NFPA 13.
- ALL REQUIRED PERMITS, APPROVAL AND INSPECTION CERTIFICATES SHALL BE OBTAINED, PAID FOR, AND MADE AVAILABLE AT THE COMPLETION OF THE WORK.
- INSTALLATION PROCEDURES, METHODS, AND CONDITIONS SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN APPROVED BY THE AUTHORITIES HAVING JURISDICTION.

GUARANTEES AND CERTIFICATIONS

- ALL WORK SHALL BE GUARANTEED TO BE FREE FROM LEAKS OR DEFECTS. ANY DEFECTIVE MATERIALS OR WORKMANSHIP AS WELL AS DAMAGE TO THE WORK OF ALL TRADES RESULTING FROM SAME SHALL BE REPLACED OR REPAIRED AS DIRECTED FOR THE DURATION OF STIPULATED GUARANTEED PERIODS.
- THE DURATION OF GUARANTEE PERIODS FOLLOWING THE DATE OF BENEFICIAL USE OF THE SYSTEM SHALL BE ONE YEAR. BENEFICIAL USE IS DEFINED AS OPERATION OF THE SYSTEM TO OBTAIN ITS INTENDED USE.
- THE DATE OF ACCEPTANCE SHALL BE THE DATE OF THE FINAL PAYMENT FOR THE WORK OR THE DATE OF A FORMAL NOTICE OF ACCEPTANCE, WHICHEVER IS EARLIER.
- CERTIFICATION SHALL BE SUBMITTED ATTESTING TO THE FACT THAT SPECIFIED PERFORMANCE CRITERIA ARE MET BY ALL ITEMS OF FIRE PROTECTION EQUIPMENT.
- ALL PRODUCTS SHALL BE UL LISTED FOR THEIR APPLICATION.

MATERIALS

- ALL MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 13, SPECIFICATION SECTION 211313, AND AS SPECIFIED HEREIN.
- PIPING FOR SPRINKLER SYSTEM SHALL BE BLACK STEEL SCHEDULE 10 WITH ROLLED GROOVE ENDS AND FITTINGS FOR 4" AND LARGER, AND SCHEDULE 40 BLACK STEEL PIPE WITH CAST OR MALLEABLE SCREW FITTINGS FOR 3" AND SMALLER.
- WET-PIPE SPRINKLER SYSTEM PIPING SHALL BE DESIGNED TO OPERATE AT A WORKING PRESSURE OF 175 PSIG MAXIMUM.
- ALL VALVES ON PIPING LARGER THAN 4" SHALL BE UL/FM APPROVED OS&Y TYPE WITH TAMPER SWITCHES. UL/FM APPROVED BUTTERFLY TYPE VALVES WITH TAMPER SWITCHES ARE PERMITTED ON PIPING 4" AND SMALLER.
- PROVIDE SPARE SPRINKLER HEADS & CABINET AS REQUIRED.
- MATERIAL AND EQUIPMENT IS TO BE NEW AND UL LISTED.
- PIPING PAINT COLOR TO BE COORDINATED WITH COTR.

FLUSHING

- ALL FIRE PROTECTION PIPING SHALL BE FLUSHED IN ACCORDANCE WITH NFPA 13.

SPRINKLERS

- PROVIDE QUICK-RESPONSE CONCEALED PENDENT SPRINKLERS IN AREAS WITH DROP CEILINGS. PROVIDE QUICK RESPONSE UPRIGHT SPRINKLERS IN OTHER AREAS UNLESS OTHERWISE NOTED.
- SPRINKLERS TO BE ORDINARY TEMPERATURE CLASSIFICATION RATING.
- AUTOMATIC SPRINKLERS TO HAVE A PRESSURE RATING OF 175 PSIG MINIMUM.
- SPRINKLER FINISH TO MATCH EXISTING SYSTEM AND BASE BUILDING SPECIFICATION UNLESS OTHERWISE NOTED.
- ALL NEW WORK SPRINKLER LOCATIONS SHALL BE APPROVED BY COTR PRIOR TO INSTALLATION.
- SPRINKLERS SHALL BE MOUNTED ON CENTER OF THE CEILING TILE AND COORDINATED WITH THE REFLECTED CEILING PLAN.

CUTTING AND PATCHING

- DO ALL CUTTING NECESSARY FOR THE INSTALLATION OF SPRINKLER WORK. ACCURATELY LAYOUT WORK FOR WHICH CUTTING IS REQUIRED, SO AS TO AVOID UNNECESSARY LARGE OPENINGS. CUTTING OF BEAMS, JOISTS, FLOORS OR WALLS OF THE BUILDING WILL NOT BE PERMITTED EXCEPT AFTER RECEIVING APPROVAL OF THE BUILDING MANAGER.
- PROVIDE UL LISTED FIRESTOPPING ASSEMBLIES AT PENETRATIONS OF FIRE RESISTANCE RATED PARTITIONS OR FLOORS.

INSERTS, HANGERS, ETC.

- HANGERS AND THEIR COMPONENTS SHALL BE FERROUS. HANGERS SHALL BE ADJUSTABLE, FLAT IRON TYPE OR CLEVIS TYPE.
- SPRINKLER PIPING OR HANGERS SHALL NOT BE USED TO SUPPORT NONSYSTEM COMPONENTS.
- SPRINKLER PIPING SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE WHICH MUST SUPPORT THE ADDED LOAD OF THE WATER-FILLED PIPE PLUS A MINIMUM OF 250 LBS. APPLIED AT THE POINT OF HANGING.
- SPRINKLER PIPING SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING SHEATHING.
- WHEN SPRINKLER PIPING IS INSTALLED BELOW DUCTWORK, PIPING SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE, NOT FROM THE DUCTWORK.
- MAXIMUM DISTANCE BETWEEN HANGERS SHALL NOT EXCEED 12 FT. FOR 1 AND 1-1/4 IN. SIZES OR 15 FT. FOR LARGER SIZES PER NFPA 13.

ESCUTCHEONS

- PROVIDE ESCUTCHEONS ON ALL EXPOSED PIPING PASSING THROUGH WALLS, PARTITIONS, FLOORS AND CEILINGS. ESCUTCHEON SHALL BE HELD IN PLACE BY INTERNAL TENSION OR SET SCREW.

TESTING

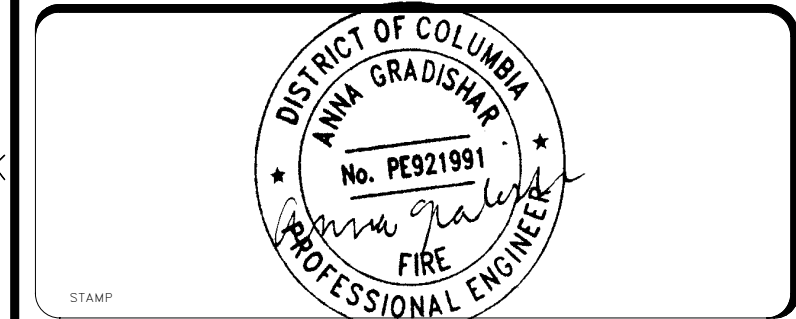
- FURNISH ALL LABOR, MATERIAL, INSTRUMENTS, SUPPLIES AND SERVICES AND BEAR ALL COSTS FOR THE ACCOMPLISHMENT OF THE TESTS HEREIN SPECIFIED. CORRECT ALL DEFECTS APPEARING UNDER TEST AND REPEAT THE TESTS UNTIL NO DEFECTS ARE DISCLOSED; LEAVE THE EQUIPMENT CLEAN AND READY FOR USE.
- THIS TRADE SHALL, DURING THE PROGRESS OF THE WORK OR UPON ITS COMPLETION AS ORDERED MAKE SUCH TESTS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE, BUILDING DEPARTMENT INSPECTORS, AND ANY OTHER AUTHORITIES HAVING JURISDICTION.
- ANY DEFECTS OR DEFICIENCIES DISCOVERED AS A RESULT OF TESTS SHALL BE IMMEDIATELY REPAIRED AND TEST SHALL BE REPEATED UNTIL THE TEST REQUIREMENTS ARE FULLY COMPLIED WITH.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP RECORDS ON ALL TESTING OF SYSTEMS.
- ALL EQUIPMENT SHALL BE TESTED AND ADJUSTED WHERE REQUIRED TO ASSURE PROPER OPERATION.
- BEFORE BEING PLACED IN SERVICE, ALL NEW FIRE MAINS AND VALVES SHALL BE CLEANED AND FLUSHED.

HYDRAULIC CALCULATIONS

- ORDINARY HAZARD GROUP 2 OCCUPANCY - DENSITY 0.20 GPM PER SQ.FT. OVER MOST HYDRAULICALLY REMOTE 1500 SQ.FT. MAXIMUM COVERAGE PER SPRINKLER HEAD 130 SQ.FT.
- NO SIZE REDUCTIONS TO THE HYDRAULICALLY MOST REMOTE AREA ALLOWED IN NFPA 13 ARE PERMITTED.
- EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA 13.
- DISCHARGE FROM EACH SPRINKLER SHALL NOT BE LESS THAN REQUIRED FOR AREA COVERED BY THE SPRINKLER. AREA COVERAGE PER SPRINKLER SHALL BE DETERMINED IN ACCORDANCE WITH NFPA 13.
- MINIMUM PRESSURE AT SPRINKLER IS 7 PSI.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A FIRE PUMP TEST IN ACCORDANCE WITH NFPA 20 AND NFPA 13 OR OBTAINING FIRE PUMP TEST DATA LESS THAN 12 MONTHS OLD FROM THE OWNER (IF AVAILABLE). THE RESULTS OF THE CONTRACTOR'S FIRE PUMP TEST SHALL BE UTILIZED FOR ALL SYSTEM DESIGN. THE ENGINEER AND OWNER SHALL BE NOTIFIED NOT FEWER THAN 14 DAYS BEFORE THE SCHEDULED FRE PUMP TEST.
- THE ENTIRE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13.
- HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO CONNECTION TO WATER SUPPLY.
- THE CALCULATED PIPE VELOCITY SHALL NOT EXCEED 20 FT/SEC.
- RESULT OF HYDRAULIC CALCULATIONS SHALL INDICATE MINIMUM 10% PRESSURE SAFETY MARGIN, I.E. EXCESS OF PRESSURE AVAILABLE OVER PRESSURE REQUIRED.

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Washington DC 20003



KEY PLAN

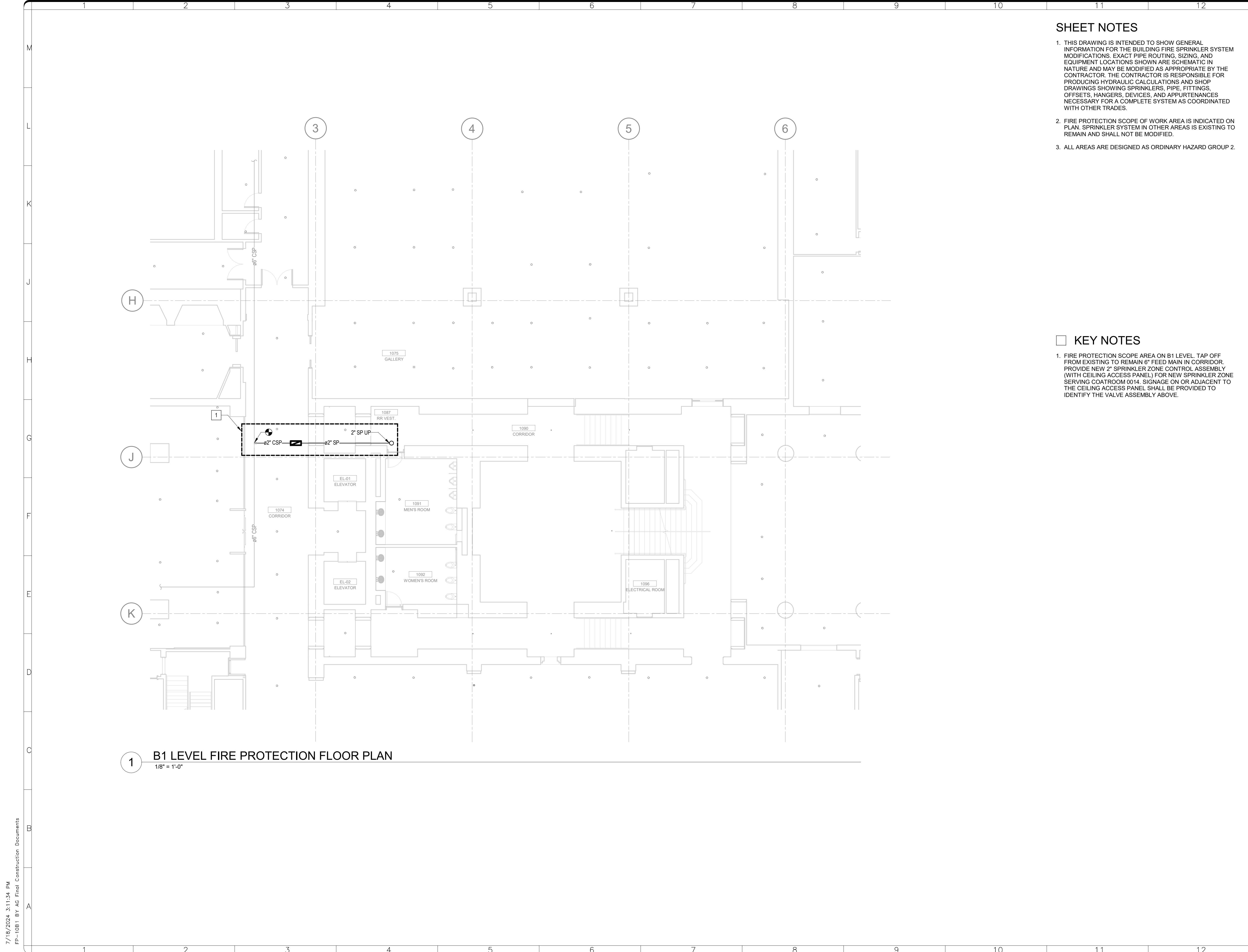
GRAPHIC SCALE(S)

DATE	07/18/24	SUBMISSION	Final Construction Documents
REVISION #	DATE	REVISION DESCRIPTION	

Smithsonian Institution

Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA												
ADDRESS	12th and Independence Avenue, SW, Washington DC												
PROJECT TITLE	Cafe at Sackler Pavilion												
SF PROJECT NUMBER	2209110												
A/E PROJECT NUMBER	F13CC10197												
DRAWING TITLE	FIRE PROTECTION GENERAL NOTES												
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>CL</td> <td>CL</td> <td>AG</td> </tr> <tr> <td>DRAWN BY</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> <td></td> <td></td> </tr> </table>	DESIGNED BY	CL	CL	AG	DRAWN BY				CHECKED BY			
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SHEET NO.	84 of 103												
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DISCIPLINE	FP	TYPE	001	SEQUENCE		DRAWING TYPE							



1 B1 LEVEL FIRE PROTECTION FLOOR PLAN
1/8" = 1'-0"

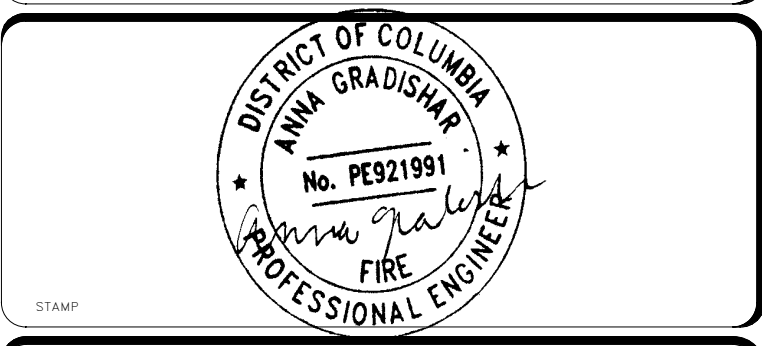
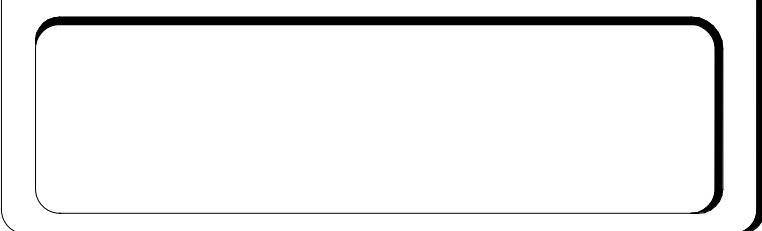
SHEET NOTES

1. THIS DRAWING IS INTENDED TO SHOW GENERAL INFORMATION FOR THE BUILDING FIRE SPRINKLER SYSTEM MODIFICATIONS. EXACT PIPE ROUTING, SIZING, AND EQUIPMENT LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY BE MODIFIED AS APPROPRIATE BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING HYDRAULIC CALCULATIONS AND SHOP DRAWINGS SHOWING SPRINKLERS, PIPE, FITTINGS, OFFSETS, HANGERS, DEVICES, AND APPURTENANCES NECESSARY FOR A COMPLETE SYSTEM AS COORDINATED WITH OTHER TRADES.
2. FIRE PROTECTION SCOPE OF WORK AREA IS INDICATED ON PLAN. SPRINKLER SYSTEM IN OTHER AREAS IS EXISTING TO REMAIN AND SHALL NOT BE MODIFIED.
3. ALL AREAS ARE DESIGNED AS ORDINARY HAZARD GROUP 2.

KEY NOTES

1. FIRE PROTECTION SCOPE AREA ON B1 LEVEL. TAP OFF FROM EXISTING TO REMAIN 6" FEED MAIN IN CORRIDOR. PROVIDE NEW 2" SPRINKLER ZONE CONTROL ASSEMBLY (WITH CEILING ACCESS PANEL) FOR NEW SPRINKLER ZONE SERVING COATROOM 0014. SIGNAGE ON OR ADJACENT TO THE CEILING ACCESS PANEL SHALL BE PROVIDED TO IDENTIFY THE VALVE ASSEMBLY ABOVE.

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KEY PLAN

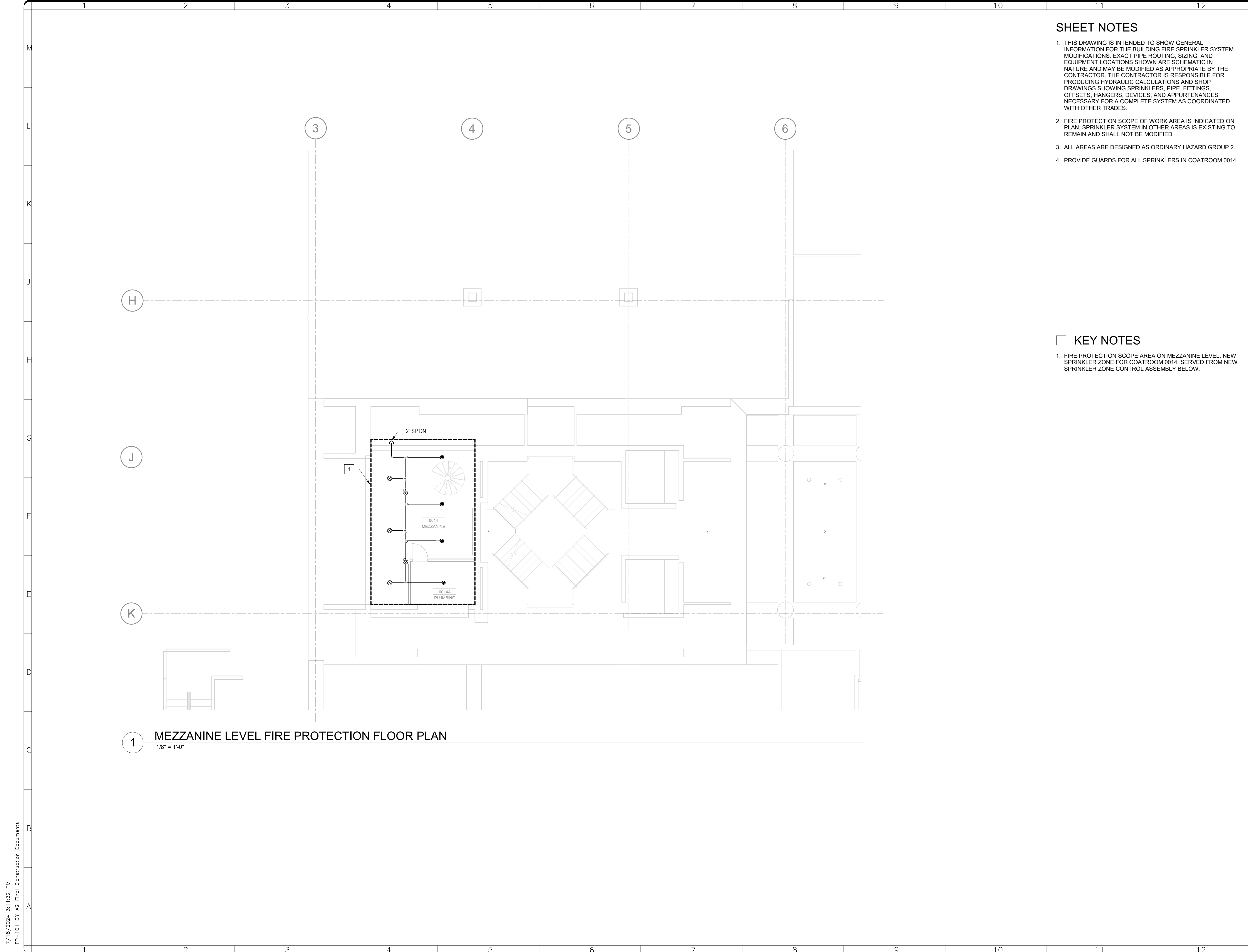
GRAPHIC SCALE(S)

0 4' 8' 16'
1/8" = 1'-0"

DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	REVISION DESCRIPTION	

Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA												
ADDRESS	12th and Independence Avenue, SW, Washington DC												
PROJECT TITLE	Cafe at Sackler Pavilion												
SF PROJECT NUMBER	2209110												
A/E PROJECT NUMBER	F13CC 10197												
DRAWING TITLE	FIRE PROTECTION B1 LEVEL FLOOR PLAN												
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SHEET NO.	85 of 103												
DRAWING NO.	FP-10B1												



1 MEZZANINE LEVEL FIRE PROTECTION FLOOR PLAN
1/8" = 1'-0"

SHEET NOTES

1. THIS DRAWING IS INTENDED TO SHOW GENERAL INFORMATION FOR THE BUILDING FIRE SPRINKLER SYSTEM MODIFICATIONS. EXACT PIPE ROUTING, SIZING, AND EQUIPMENT LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY BE MODIFIED AS APPROPRIATE BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING HYDRAULIC CALCULATIONS AND SHOP DRAWINGS SHOWING SPRINKLERS, PIPE, FITTINGS, OFFSETS, HANGERS, DEVICES, AND APPURTENANCES NECESSARY FOR A COMPLETE SYSTEM AS COORDINATED WITH OTHER TRADES.
2. FIRE PROTECTION SCOPE OF WORK AREA IS INDICATED ON PLAN. SPRINKLER SYSTEM IN OTHER AREAS IS EXISTING TO REMAIN AND SHALL NOT BE MODIFIED.
3. ALL AREAS ARE DESIGNED AS ORDINARY HAZARD GROUP 2.
4. PROVIDE GUARDS FOR ALL SPRINKLERS IN COATROOM 0014.

KEY NOTES

1. FIRE PROTECTION SCOPE AREA ON MEZZANINE LEVEL. NEW SPRINKLER ZONE FOR COATROOM 0014. SERVED FROM NEW SPRINKLER ZONE CONTROL ASSEMBLY BELOW.

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Washington DC 20003



KEY PLAN

GRAPHIC SCALE(S)

DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	REVISION DESCRIPTION	

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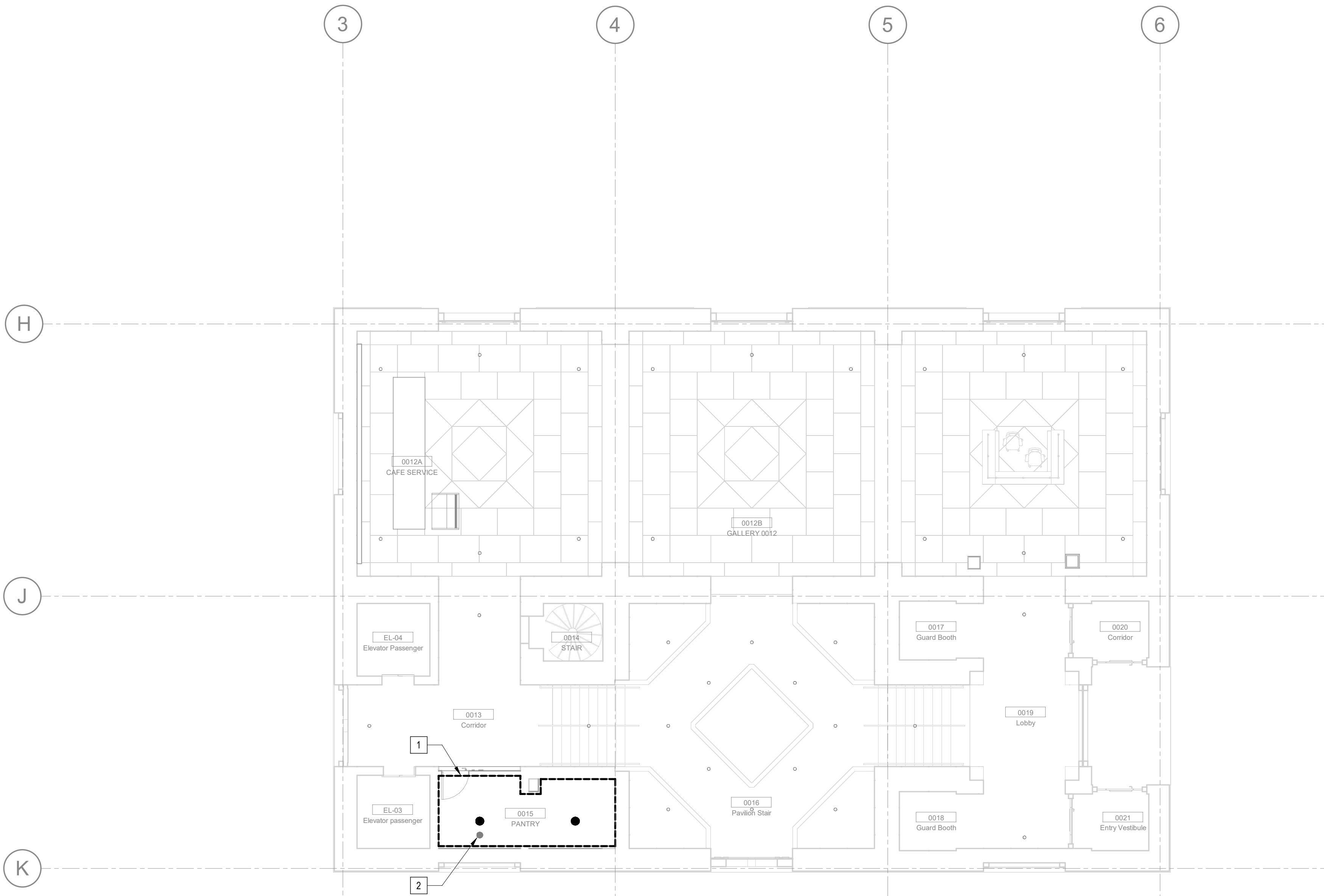
Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA												
ADDRESS	12th and Independence Avenue, SW, Washington DC												
PROJECT TITLE	Cafe at Sackler Pavilion												
SF PROJECT NUMBER	2209110												
A/E PROJECT NUMBER	F13CC10197												
DRAWING TITLE	FIRE PROTECTION MEZZANINE LEVEL FLOOR PLAN												
WORKING STAFF	<table border="1"> <tr> <td>DESIGNED BY</td> <td>CL</td> <td>CL</td> <td>AG</td> </tr> <tr> <td>DRAWN BY</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> <td></td> <td></td> </tr> </table>	DESIGNED BY	CL	CL	AG	DRAWN BY				CHECKED BY			
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DRAWN BY													
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SHEET NO. 86 of 103

FP-101

DISCIPLINE TYPE SEQUENCE DRAWING TYPE



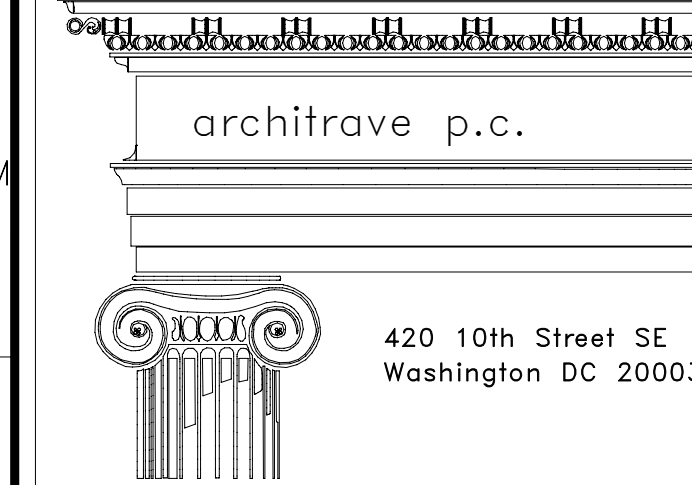
1 GROUND LEVEL FIRE PROTECTION FLOOR PLAN
 1/8" = 1'-0"

SHEET NOTES

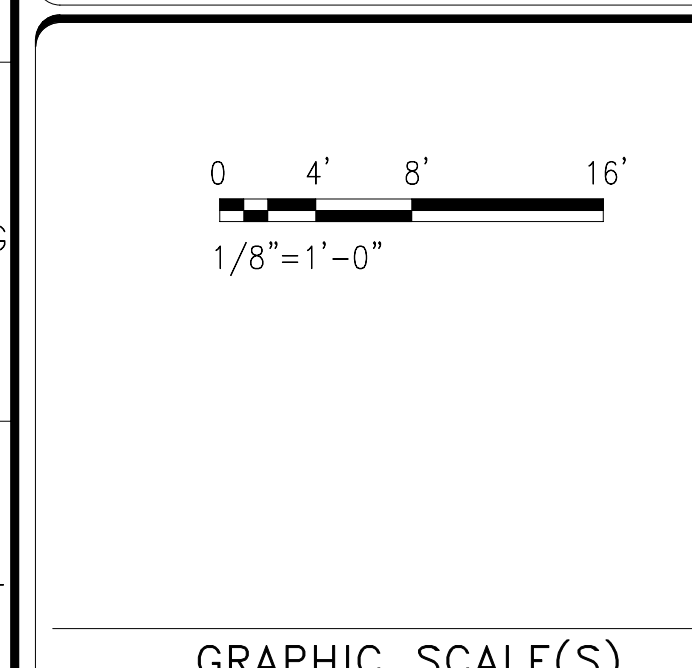
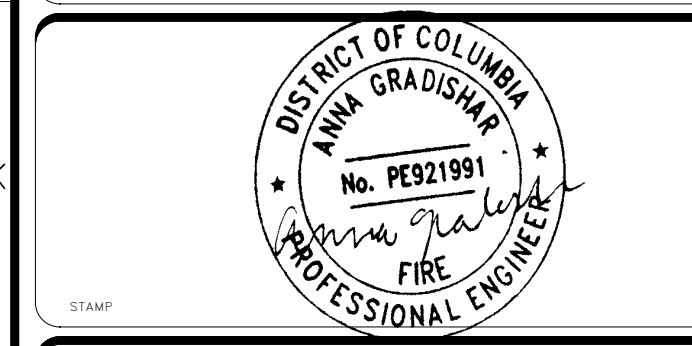
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2. FIRE PROTECTION SCOPE OF WORK AREA IS INDICATED ON PLAN. SPRINKLER SYSTEM IN OTHER AREAS IS EXISTING TO REMAIN AND SHALL NOT BE MODIFIED.
3. ALL AREAS ARE DESIGNED AS ORDINARY HAZARD GROUP 2.

KEY NOTES

1. FIRE PROTECTION SCOPE AREA ON GROUND LEVEL. MODIFY SPRINKLER SYSTEM IN COATROOM 0015 AS NECESSARY TO PROVIDE FULL PROTECTION IN THE ROOM. PROVIDE NEW CONCEALED PENDENT SPRINKLERS IN DROP CEILING. CONNECT TO EXISTING SPRINKLER ZONE SERVING GROUND LEVEL.
2. EXISTING CONCEALED PENDENT SPRINKLER TO REMAIN. SPRINKLER IS ABOVE NEW DROP CEILING IN COATROOM 0015 AND PROVIDES SPRINKLER PROTECTION FOR CORRIDOR 0013 (NEW WALL SEPARATING COATROOM 0015 AND CORRIDOR 0013 ONLY EXTENDS TO NEW DROP CEILING).



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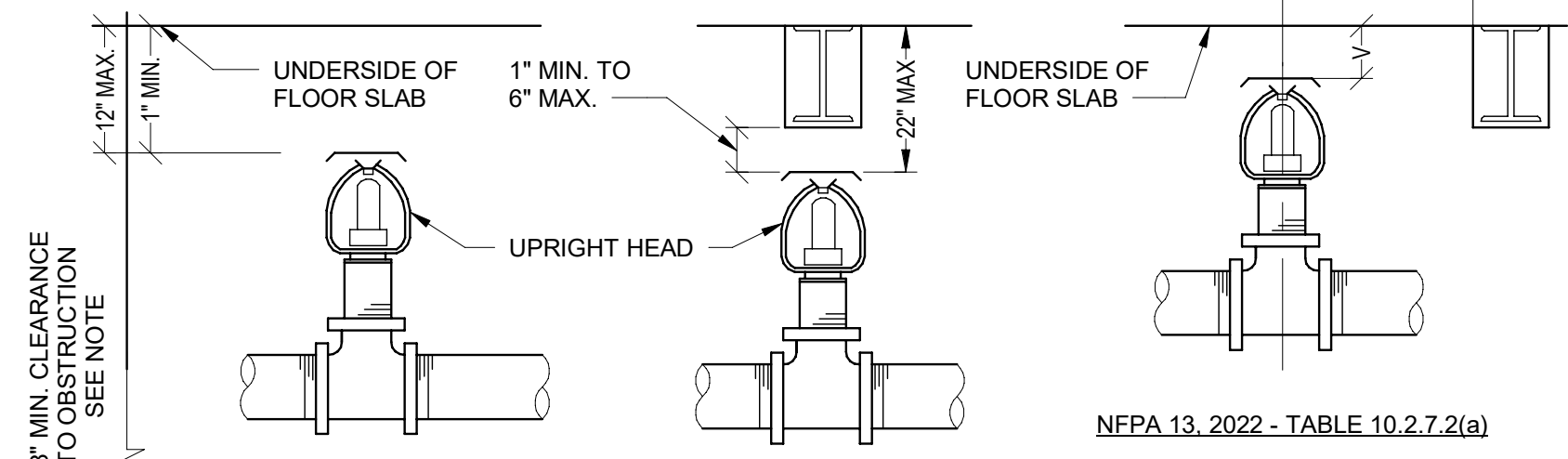


DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	REVISION DESCRIPTION	

Smithsonian Institution
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 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	NMAA												
ADDRESS	12th and Independence Avenue, SW, Washington DC												
PROJECT TITLE	Cafe at Sackler Pavilion												
SF PROJECT NUMBER	2209110												
A/E PROJECT NUMBER	F13CC 10197												
DRAWING TITLE	FIRE PROTECTION GROUND LEVEL FLOOR PLAN												
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SHEET NO. **FP-102**
 87 of 103

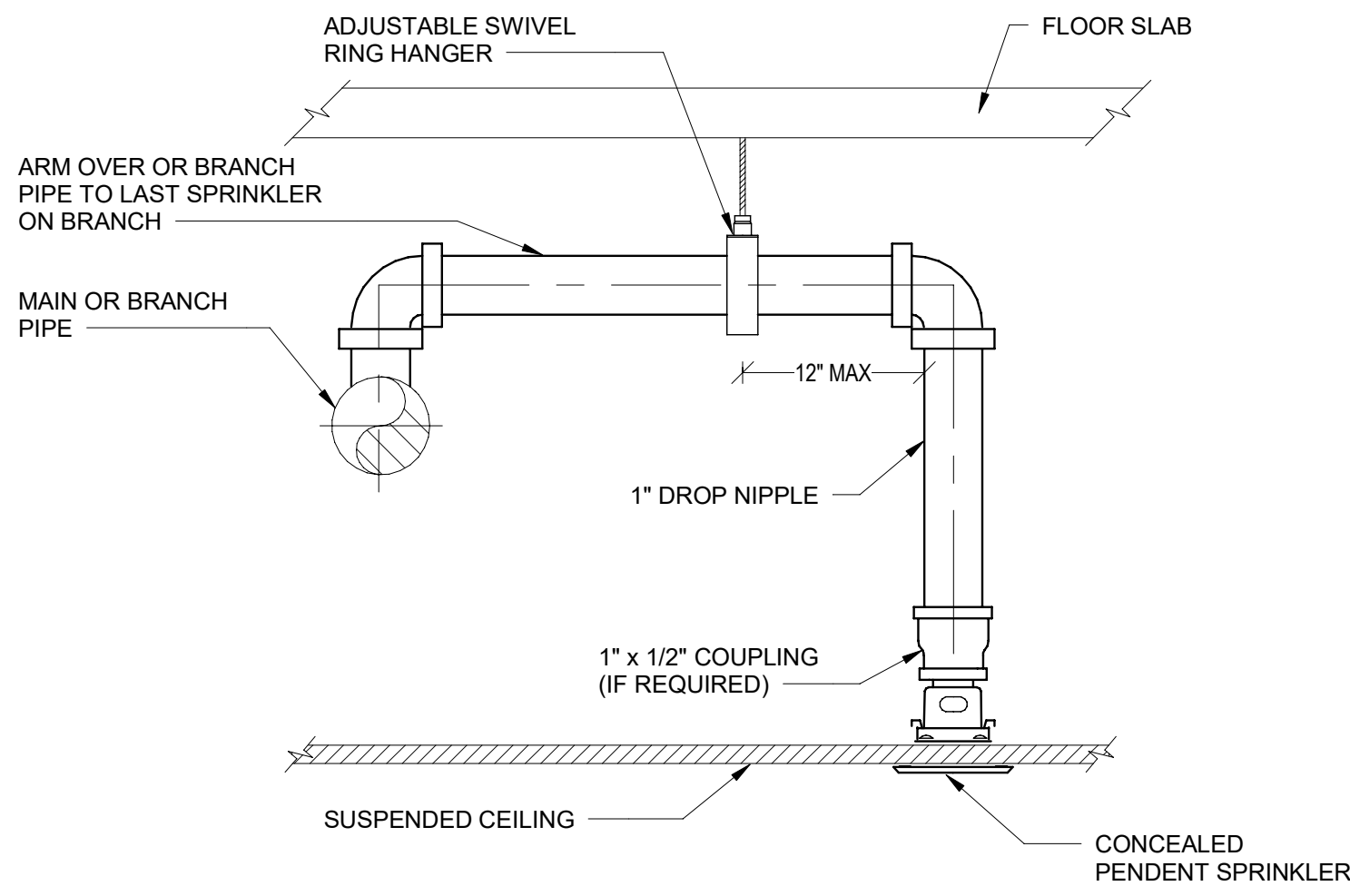


NOTE
WHEN OBSTRUCTION (DUCT, PIPES OR CABLE TRAY) HORIZONTAL DIMENSION IS OVER 4 FEET, A SPRINKLER SHALL BE INSTALLED BENEATH THE OBSTRUCTION.

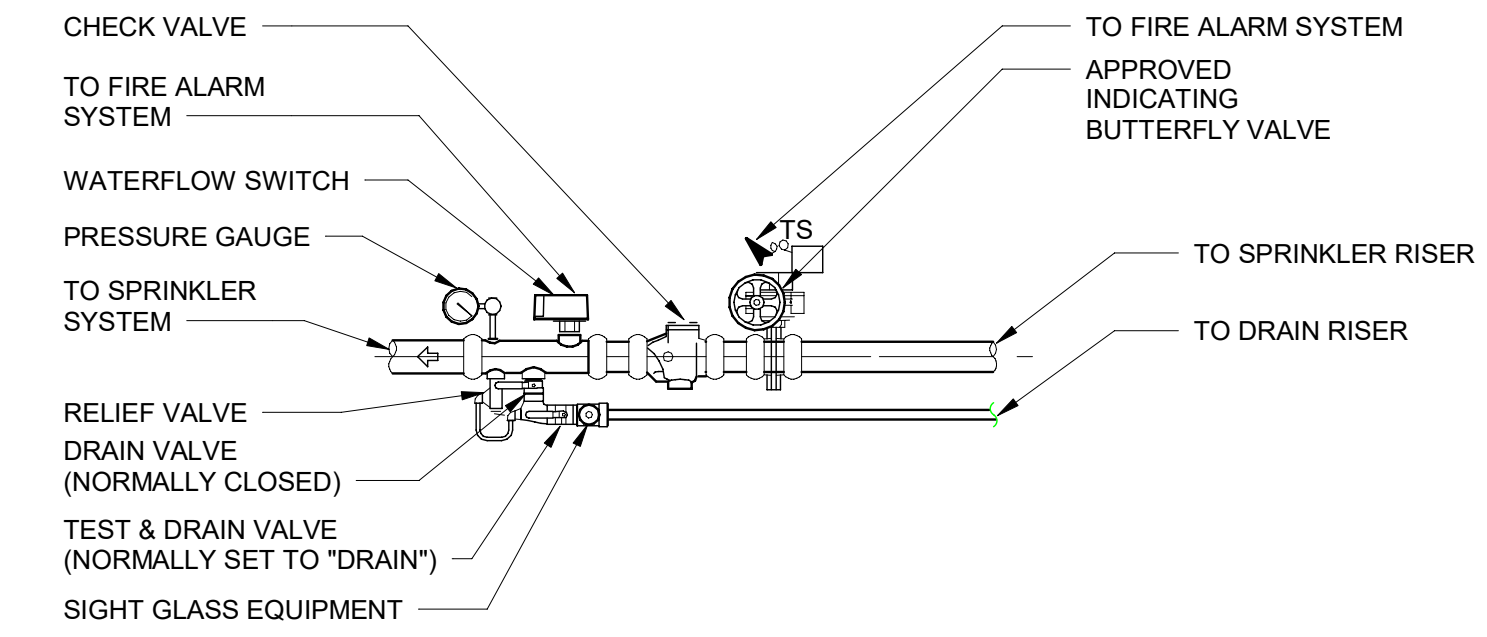
NFPA 13, 2022 - TABLE 10.2.7.2(a)

HORIZONTAL DISTANCE LESS THAN 1'-0"	VERTICAL DISTANCE
1'-0" TO 1'-6"	2 1/2"
1'-6" TO 2'-0"	3 1/2"
2'-0" TO 2'-6"	5 1/2"
2'-6" TO 3'-0"	7 1/2"
3'-0" TO 3'-6"	9 1/2"
3'-6" TO 4'-0"	12"
4'-0" TO 4'-6"	14"
4'-6" TO 5'-0"	16 1/2"
5'-0" TO 5'-6"	18"
5'-6" TO 6'-0"	20"
6'-0" TO 6'-6"	24"
6'-6" TO 7'-0"	30"
MORE THAN 7'-0"	35"

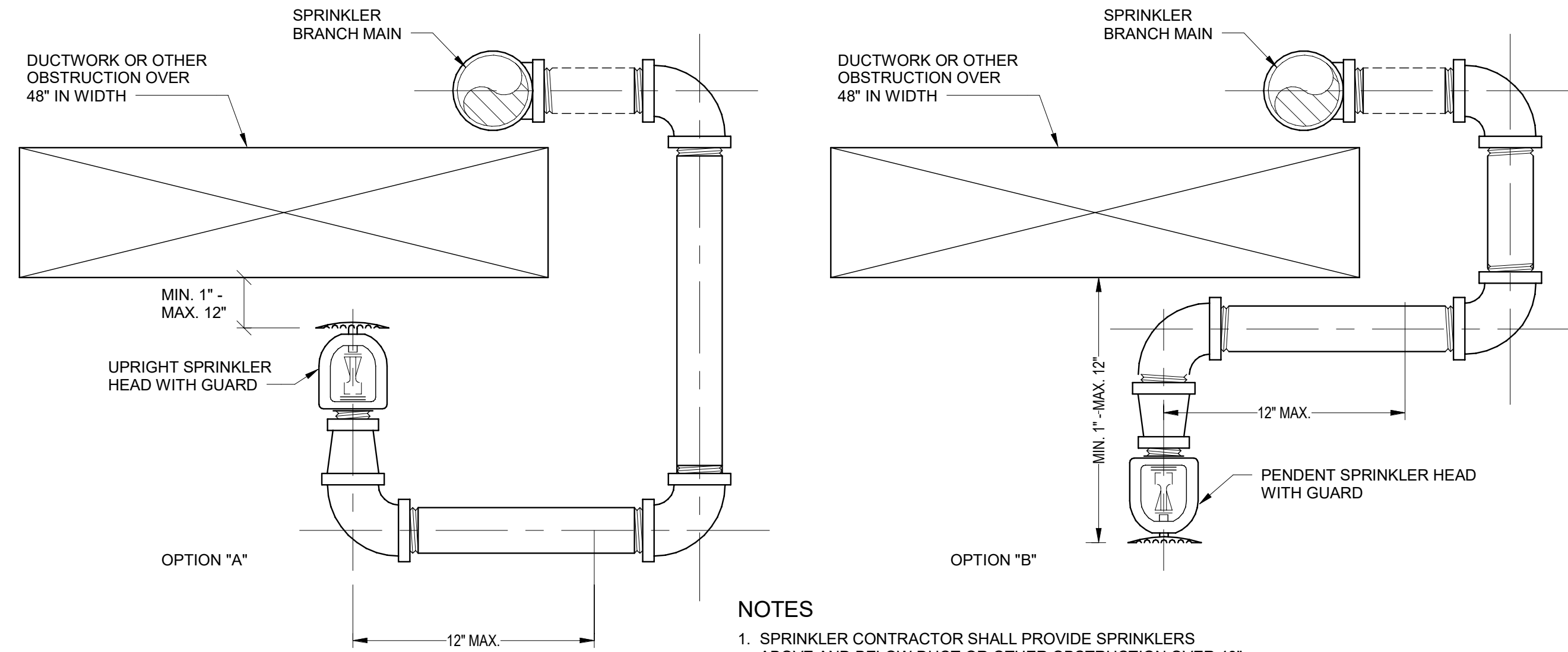
1 TYPICAL UPRIGHT SPRINKLER
NTS



2 TYPICAL PENDENT SPRINKLER
NTS

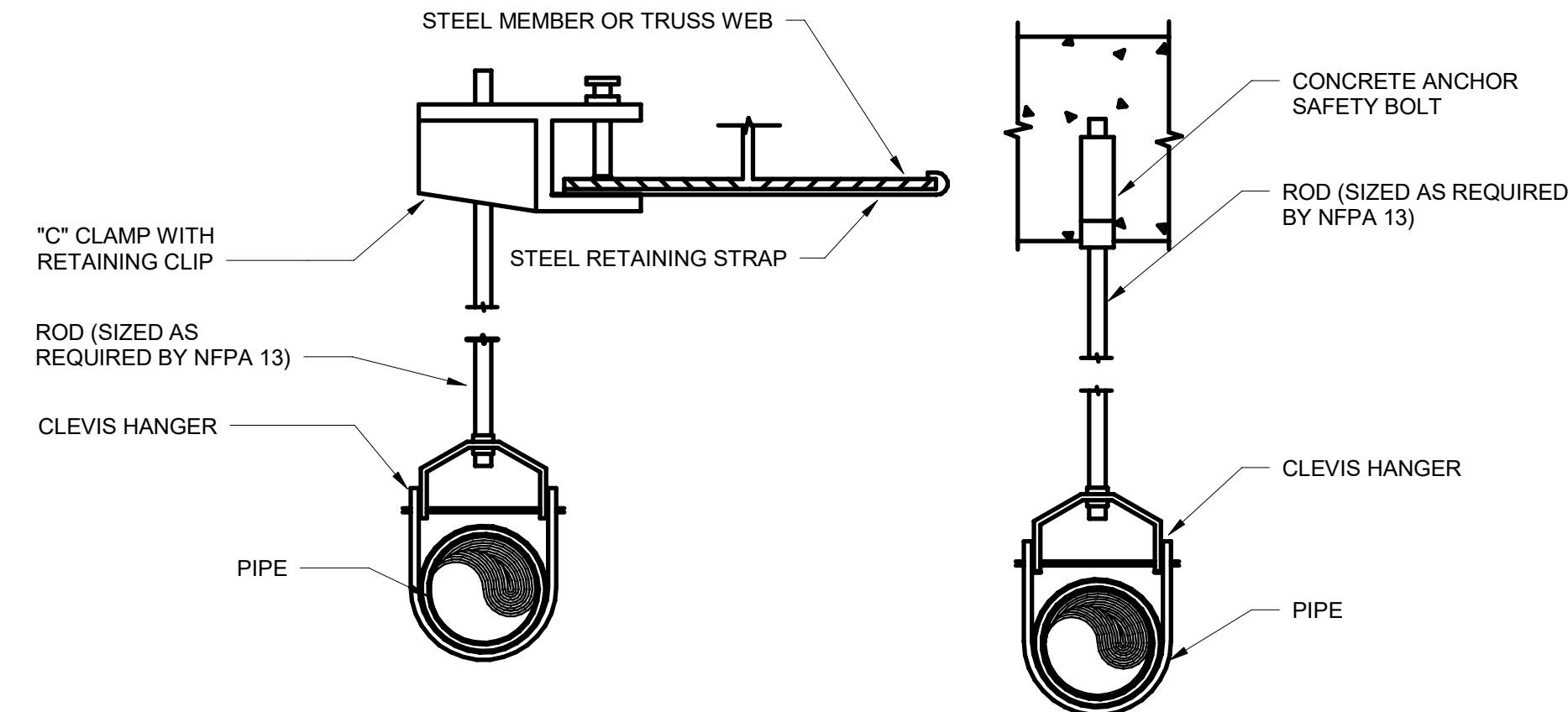


3 SPRINKLER ZONE CONTROL ASSEMBLY
NTS



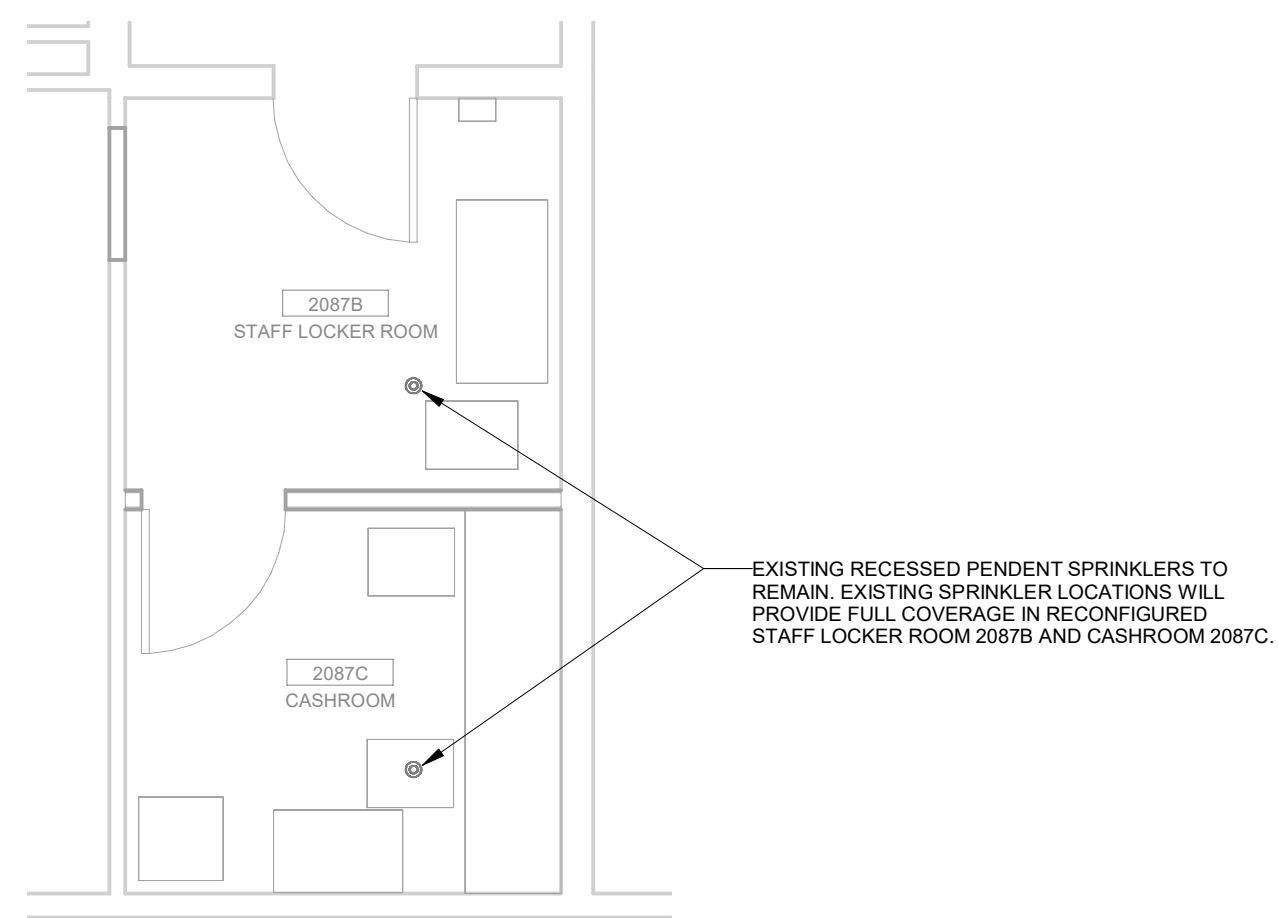
NOTES
1. SPRINKLER CONTRACTOR SHALL PROVIDE SPRINKLERS ABOVE AND BELOW DUCT OR OTHER OBSTRUCTION OVER 48" IN WIDTH.
2. SPRINKLER CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.

4 SPRINKLER BELOW OBSTRUCTION
NTS



NOTE:
1. CLEVIS HANGER DEPICTED, OTHER UL-LISTED AND FM APPROVED HANGERS COMPLYING WITH NFPA 13 ARE ALSO PERMITTED.

5 TYPICAL PIPE HANGER
NTS



6 B2 LEVEL CASHROOM PART PLAN
1/4" = 1'-0"

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Washington DC 20003



KEY PLAN

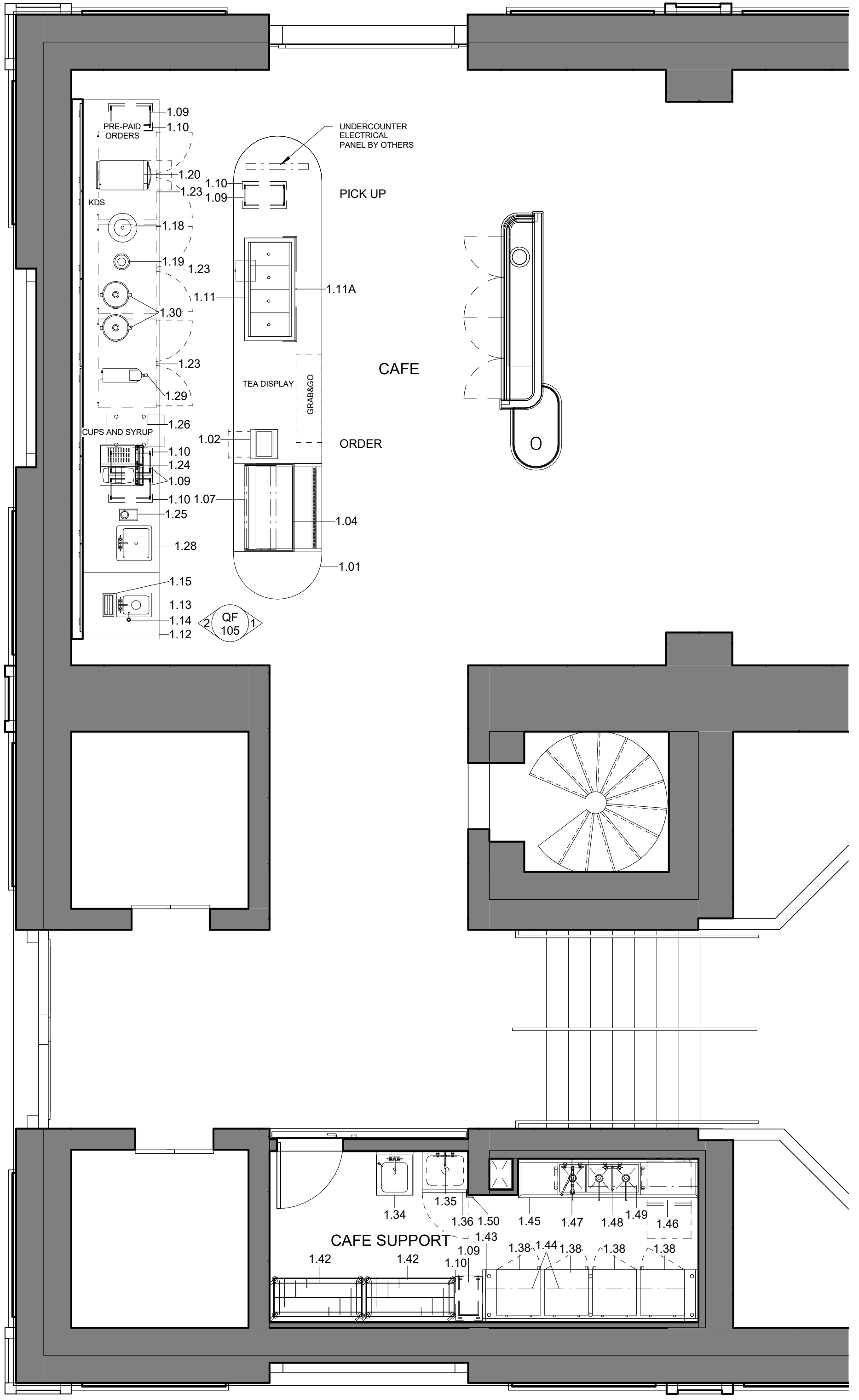
GRAPHIC SCALE(S)

DATE	07/18/24	REVISION	Final Construction Documents
REVISION #	DATE	REVISION DESCRIPTION	

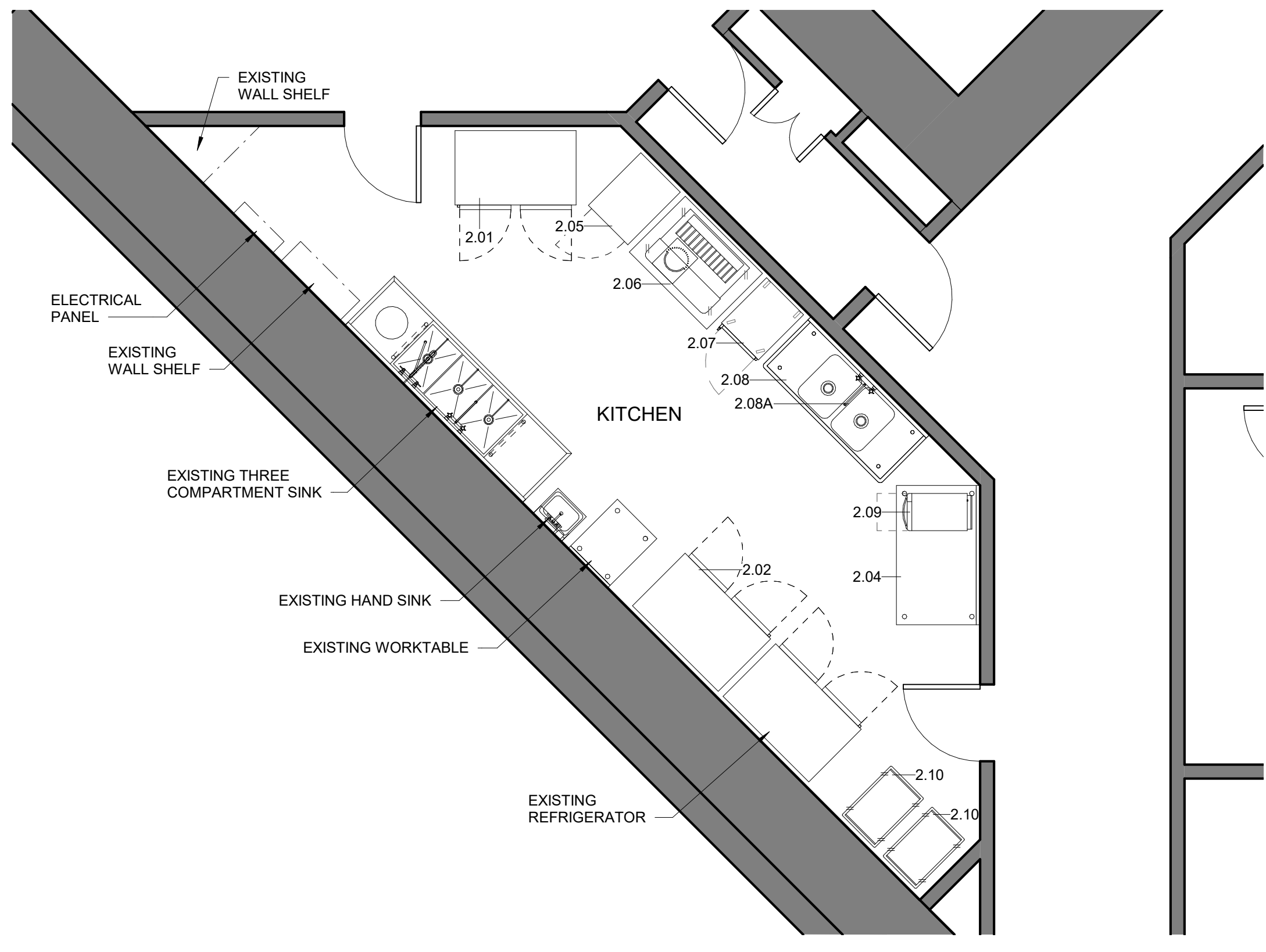
Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMAA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	Cafe at Sackler Pavilion
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	F13CC10197
DRAWING TITLE	FIRE PROTECTION DETAILS
WORKING STAFF	CL CL AG
DESIGNED BY	DRAWN BY
CHECKED BY	

SHEET NO. 88 of 103
FP-501



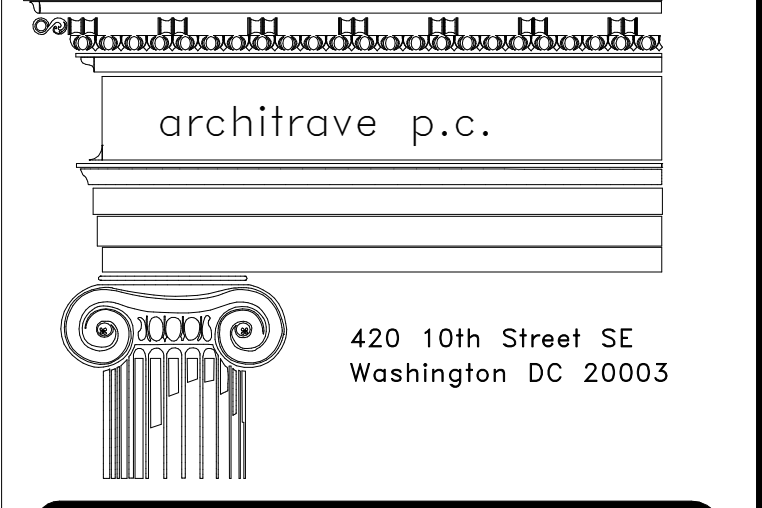
1 OF 101 Equipment Plan - Pavilion
1/4" = 1'-0"



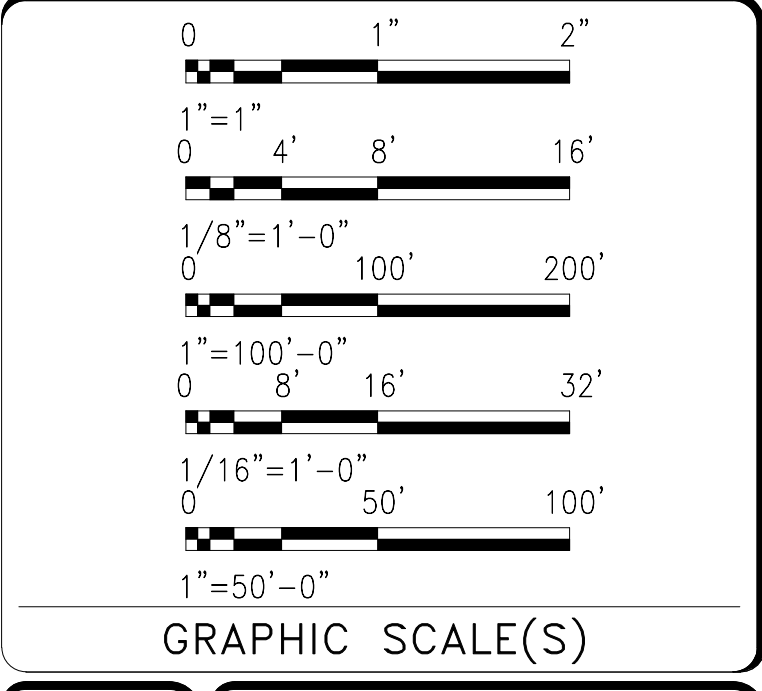
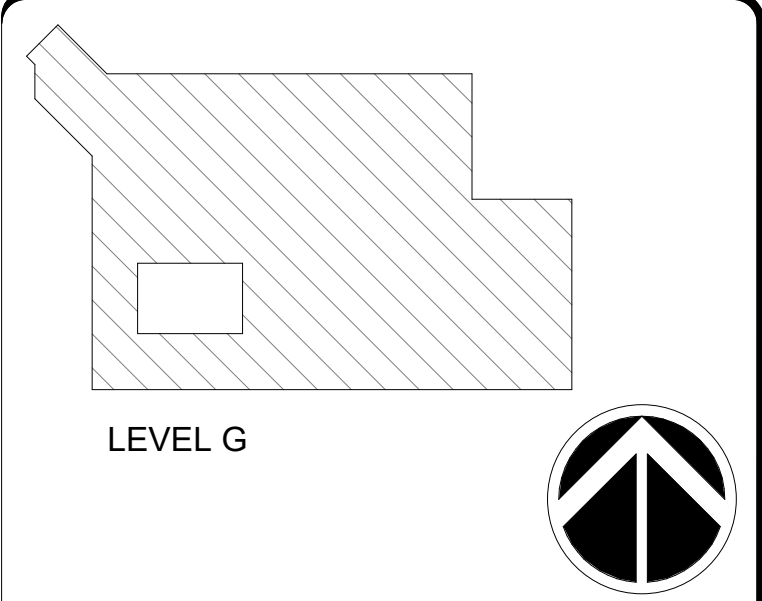
2 OF 101 Equipment Plan - Quad Level S2
1/4" = 1'-0"

Equipment Schedule Pavilion			
Item	QTY	Description	Schedule Remarks
1.01	1	SERVING COUNTER	
1.02	1	POS REGISTER	NIKEK/BY OWNER
1.03	1	OPEN NUMBER	
1.04	1	OPEN MERCHANDISER, SELF SERVICE	
1.05	1	OPEN NUMBER	
1.06	1	OPEN NUMBER	
1.07	1	NON-REFRIGERATED SERVICE CASE, COUNTERTOP	
1.08	1	OPEN NUMBER	
1.09	9	WASTE RECEPTACLE, 23 GALLON	QUANTITY (4) NOT SHOWN ON PLAN
1.10	9	TRASH DOLLY	QUANTITY (4) NOT SHOWN ON PLAN
1.11	1	DROP-IN, HOT/COLD WELLS WITH REFRIGERATED BASE	
1.11A	1	FOOD SHIELD, VERTICAL	
1.12	1	BACK COUNTER	
1.13	1	HAND SINK, DROP-IN	
1.14	1	SOAP DISPENSER	
1.15	1	PAPER TOWEL DISPENSER	
1.16	1	OPEN NUMBER	
1.17	1	OPEN NUMBER	
1.18	1	SOUP KETTLE, COUNTERTOP	
1.19	1	FOOD WARMER, COUNTERTOP	
1.20	1	RAPID COOK OVEN	
1.21	1	OPEN NUMBER	
1.22	1	OPEN NUMBER	
1.23	3	REFRIGERATOR, UNDERCOUNTER	
1.24	1	ESPRESSO MACHINE, AUTOMATED	
1.25	1	COUNTERTOP RINSER	
1.26	1	ICE MAKER	
1.27	1	OPEN NUMBER	
1.28	1	WORK SINK, DROP-IN	
1.29	1	HOT WATER DISPENSER	
1.30	2	RICE / GRAIN COOKER	
1.31	1	OPEN NUMBER	
1.32	1	OPEN NUMBER	
1.33	1	OPEN NUMBER	
1.34	1	HAND SINK, ADA	
1.35	1	MOP SINK FAUCET	
1.36	1	MOP SINK CABINET	
1.37	1	OPEN NUMBER	
1.38	4	REFRIGERATOR, UNDERCOUNTER	
1.39	1	OPEN NUMBER	
1.40	1	OPEN NUMBER	
1.41	1	OPEN NUMBER	
1.42	2	SHELVING, UNIT	
1.43	1	WORKTABLE	
1.44	2	WALL SHELF	
1.45	1	THREE COMPARTMENT SINK	
1.46	1	DISHWASHER, UNDERCOUNTER	
1.47	1	PRE-RINSE FAUCET WITH ADD-ON FAUCET	
1.48	1	SWING FAUCET, 12"	
1.49	1	WALL SHELF	
1.50	1	CORNER GUARD, STAINLESS STEEL	

Equipment Schedule Quad Level S2			
Item	QTY	Description	Schedule Remarks
2.01	1	REFRIGERATOR, REACH-IN	
2.02	1	REFRIGERATOR, REACH-IN	
2.03	1	OPEN NUMBER	
2.04	1	WORKTABLE	
2.05	1	FREEZER, REACH-IN	
2.06	1	INDUCTION DOUBLE BURNER	
2.07	1	LOW TEMPERATURE HOT HOLDING CABINETS	
2.08	1	TWO COMPARTMENT SINK	
2.08A	1	POT SINK FAUCET	
2.09	1	RAPID COOK OVEN	
2.10	2	UTILITY CART	



FOR CONSTRUCTION



DATE	07/18/24	SUBMISSION	FINAL CONSTRUCTION DOCUMENTS
REVISION #	DATE	REVISION DESCRIPTION	



BUILDING NAME	NMMA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	FOODSERVICE EQUIPMENT PLANS AND SCHEDULE
WORKING STAFF	JLP (DESIGNED BY), JLP (DRAWN BY), LKL (CHECKED BY)
SHEET NO.	89 of 103
DISCIPLINE	TYPE SEQUENCE DRAWING TYPE

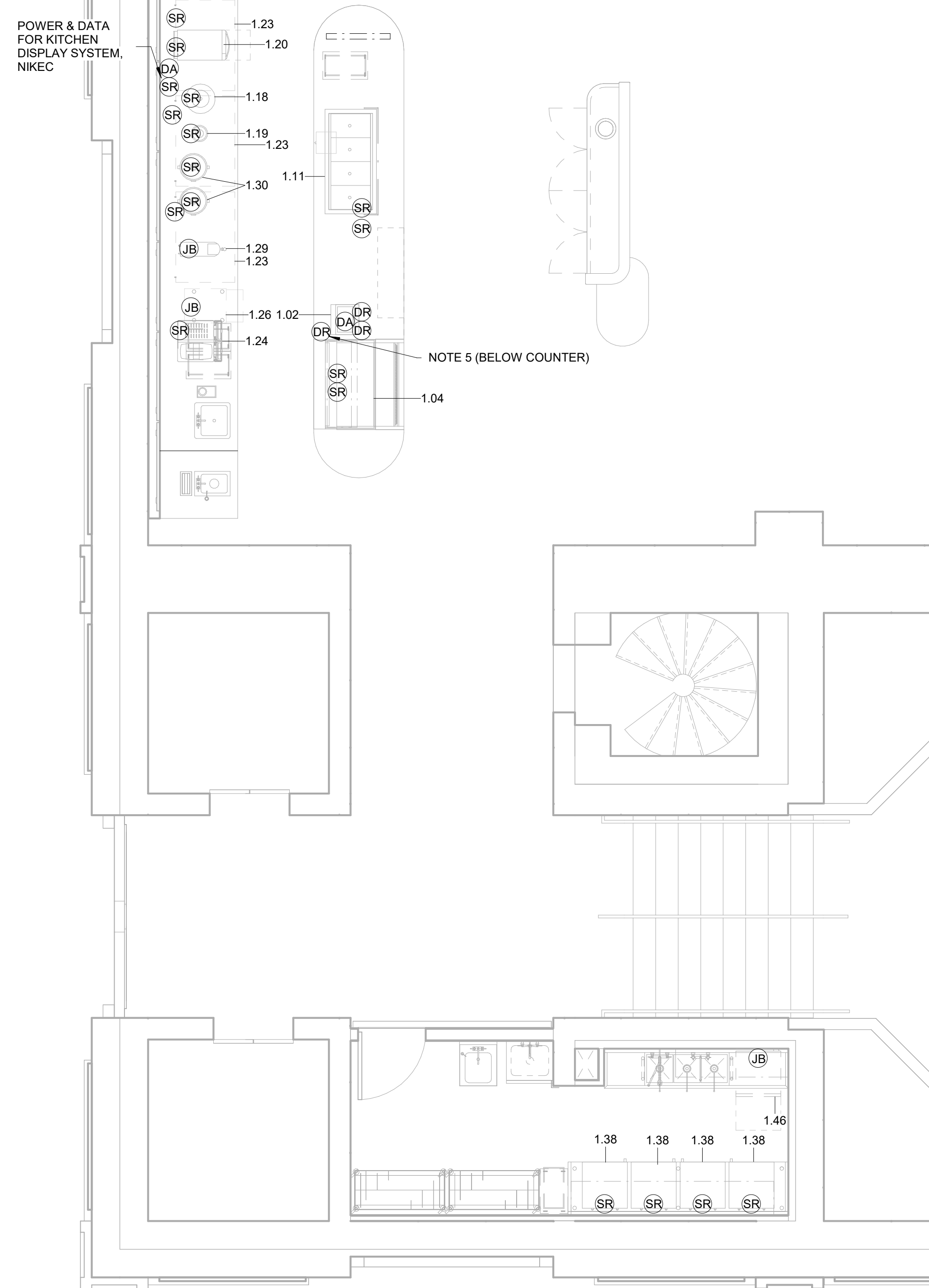
ELECTRICAL NOTES

- SERVICES FOR CLOCK OUTLETS, TELEPHONE AND COMPUTER CONDUITS, HVAC SYSTEMS AND ROOM LIGHTING ARE SHOWN ON ARCHITECTURAL/ELECTRICAL DRAWINGS. SOME CONVENIENCE OUTLETS HAVE BEEN SHOWN ON THE FOODSERVICE EQUIPMENT PLANS.
- THE ELECTRICAL DIVISION IS RESPONSIBLE FOR:
 - ALL WIRING, FITTINGS, AND LABOR, UP TO AND INCLUDING FINAL CONNECTIONS.
 - INTERWIRING VENTILATOR, FIRE PROTECTION, WASTE DISPOSERS, REMOTE REFRIGERATION, AND DETERGENT PUMPING SYSTEMS.
 - PROVISION OF AREA SUB-PANELS IN LIEU OF DISCONNECT SWITCHES, WHEREVER POSSIBLE.
 - PROVISION OF ALL EXPOSED HARDWARE AND FIXTURES IN CHROME OR STAINLESS STEEL.
 - COORDINATION OF PANELBOARDS WITH EQUIPMENT LOCATIONS AND REQUIREMENTS.
 - PROVISION OF SHUNT-TRIP BREAKERS FOR COOKING EQUIPMENT AS REQUIRED.
 - EMPTY CONDUITS FOR CONTROL/COMPUTER WIRING AS REQUIRED.
- ALL ELECTRICAL WORK WITHIN FABRICATED EQUIPMENT WILL BE BY THE KEK, READY FOR FINAL, SINGLE POINT CONNECTION UNLESS OTHERWISE NOTED.
- FUTURE EQUIPMENT CONNECTIONS ARE TO BE COMPLETELY ROUGHED-IN AND WIRED, BUT WITH COVERPLATES FOR FUTURE USE.
- PROVIDE CONVENIENCE OUTLETS ON WALLS THROUGHOUT THE FOODSERVICE FACILITY, EXCEPT ABOVE DEEP SINKS OR DISHWASHING EQUIPMENT. OUTLETS ABOVE COUNTERS AND WORK TABLES SHOULD BE 48" ABOVE THE FLOOR WHERE COUNTERS OR TABLES ARE ON A WALL. OUTLETS ON OPEN RUNS OF WALL SHOULD BE 18" ABOVE THE FLOOR. GENERALLY, OUTLETS SHOULD BE SPACED EVERY 6'-0", WITH MINIMUM OF TWO (2) OUTLETS ABOVE ANY COUNTER OR WORK TABLE. TWO OUTLETS PER 20 AMP CIRCUIT IS ACCEPTABLE. SEE ELECTRICAL DRAWINGS FOR ANY ADDITIONAL OUTLETS.
- DROP CORDS SHALL BE LOCATED GENERALLY WHERE THEY ARE SHOWN ON OUR FOODSERVICE ELECTRICAL SPOT CONNECTION PLAN(S). DROP CORDS AT REST SHALL BE 6'-8" AFF WHEN OVER OPEN FLOOR SPACE OR MOBILE TABLES OR COUNTERS AND 6'-0" WHEN ABOVE STATIONARY TABLES OR COUNTERS. IF DROP CORDS ARE LOCATED FOR THE SOLE PURPOSE OF PROVIDING POWER TO TALL ITEMS OF EQUIPMENT, THEY SHALL HANG AT A HEIGHT APPROPRIATE TO THE EQUIPMENT. SEE ELECTRICAL DRAWINGS FOR ANY ADDITIONAL OUTLETS.

ELECTRICAL SYMBOLS AND ABBREVIATIONS

Single Receptacle	SR	
Duplex Receptacle	DR	
Switch	SW	
Junction Box	JB	
Drop Cord From Ceiling	DC	
Data/Communications	DA	
Electrical Connection	EC	
Control Wiring Interconnection	IC	
Empty Junction Box	EJ	
Amp	A	
Kilowatt	KW	
Horsepower	HP	
Volt	V	
Phase	PH	
Above Finished Floor	AFF	
Down from Above	DFA	

POWER & DATA FOR KITCHEN DISPLAY SYSTEM, NIKEC



1 of 102 Electrical Spot Connection Plan - Pavilion
1/4" = 1'-0"

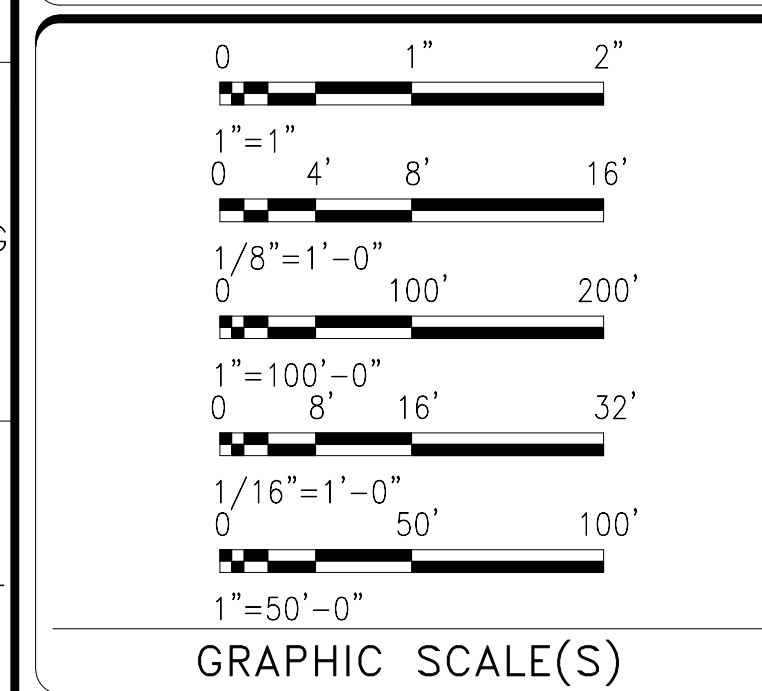
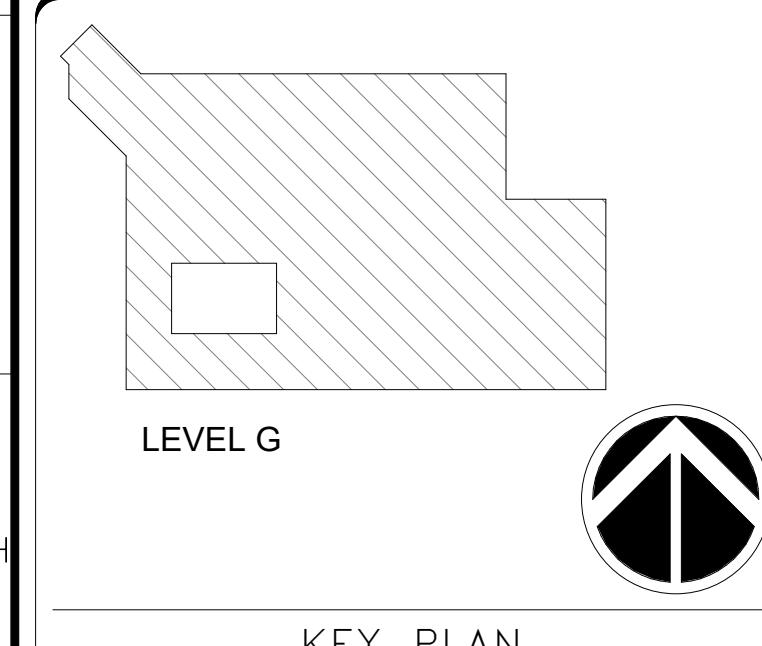
Item	Qty	Description	Elec Conn	AFF	Volts	PH	FL Amps	Electrical Remarks
1.02	1	POS REGISTER	(2) DR	38"	120	1	10.0	DATA LINE
1.04	1	OPEN MERCHANDISER, SELF SERVICE	NEMA 5-20P	2"	120	1	13.6	SECOND CONNECTION AT 120V/60/1PH, 6.9 FL AMPS, NEMA 5-15P
1.11	1	DROP-IN, HOT/COLD WELLS WITH REFRIGERATED BASE	NEMA 5-15P	12"	120	1	5.6	SECOND CONNECTION AT 208V/60/1PH, 5 FL AMPS, NEMA L14-20P
1.18	1	SOUP KETTLE, COUNTERTOP	NEMA 5-15R	40"	120	1	5.8	
1.19	1	FOOD WARMER, COUNTERTOP	NEMA 5-15P	40"	120	1	3.0	
1.20	1	RAPID COOK OVEN	NEMA 6-30P	44"	208/240	1	30.0	
1.23	3	REFRIGERATOR, UNDERCOUNTER	NEMA 5-15P	12"	120	1	3.6	
1.24	1	ESPRESSO MACHINE, AUTOMATED	NEMA L60-30P	40"	208	1	30.0	
1.26	1	ICE MAKER	JB	7 1/2"	120	1	5.6	
1.29	1	HOT WATER DISPENSER	JB	40"	120	1	12.5	
1.30	2	RICE / GRAIN COOKER	NEMA 5-15P	40"	120	1	5.5	
1.38	4	REFRIGERATOR, UNDERCOUNTER	NEMA 5-15P	12"	120	1	2.0	
1.46	1	DISHWASHER, UNDERCOUNTER	JB	4 5/8"	208	1	30.5	

2 of 102 Electrical Spot Connection Plan - Quad Level S2
1/4" = 1'-0"

Item	Qty	Description	Elec Conn	AFF	Volts	PH	FL Amps	Electrical Remarks
2.01	1	REFRIGERATOR, REACH-IN	NEMA 5-15P	90"	120	1	8.2	
2.02	1	REFRIGERATOR, REACH-IN	NEMA 5-15P	90"	120	1	8.2	
2.05	1	FREEZER, REACH-IN	NEMA 5-15P	80"	120	1	11.5	
2.06	1	INDUCTION DOUBLE BURNER	NEMA 5-30P	6"	120	1	21.0	
2.07	1	LOW TEMPERATURE HOT HOLDING CABINETS	NEMA 5-20P	72 1/2"	120	1	16.0	
2.09	1	RAPID COOK OVEN	NEMA 6-30P	40"	208/240	1	30.0	



FOR CONSTRUCTION



DATE	07/18/24	SUBMISSION	FINAL CONSTRUCTION DOCUMENTS
REVISION #	DATE	REVISION DESCRIPTION	

BUILDING NAME	NMMA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	FOODSERVICE ELECTRICAL SPOT CONNECTION PLANS AND UTILITY LOAD SCHEDULES
WORKING STAFF	JLP (DESIGNED BY), JLP (DRAWN BY), LKL (CHECKED BY)

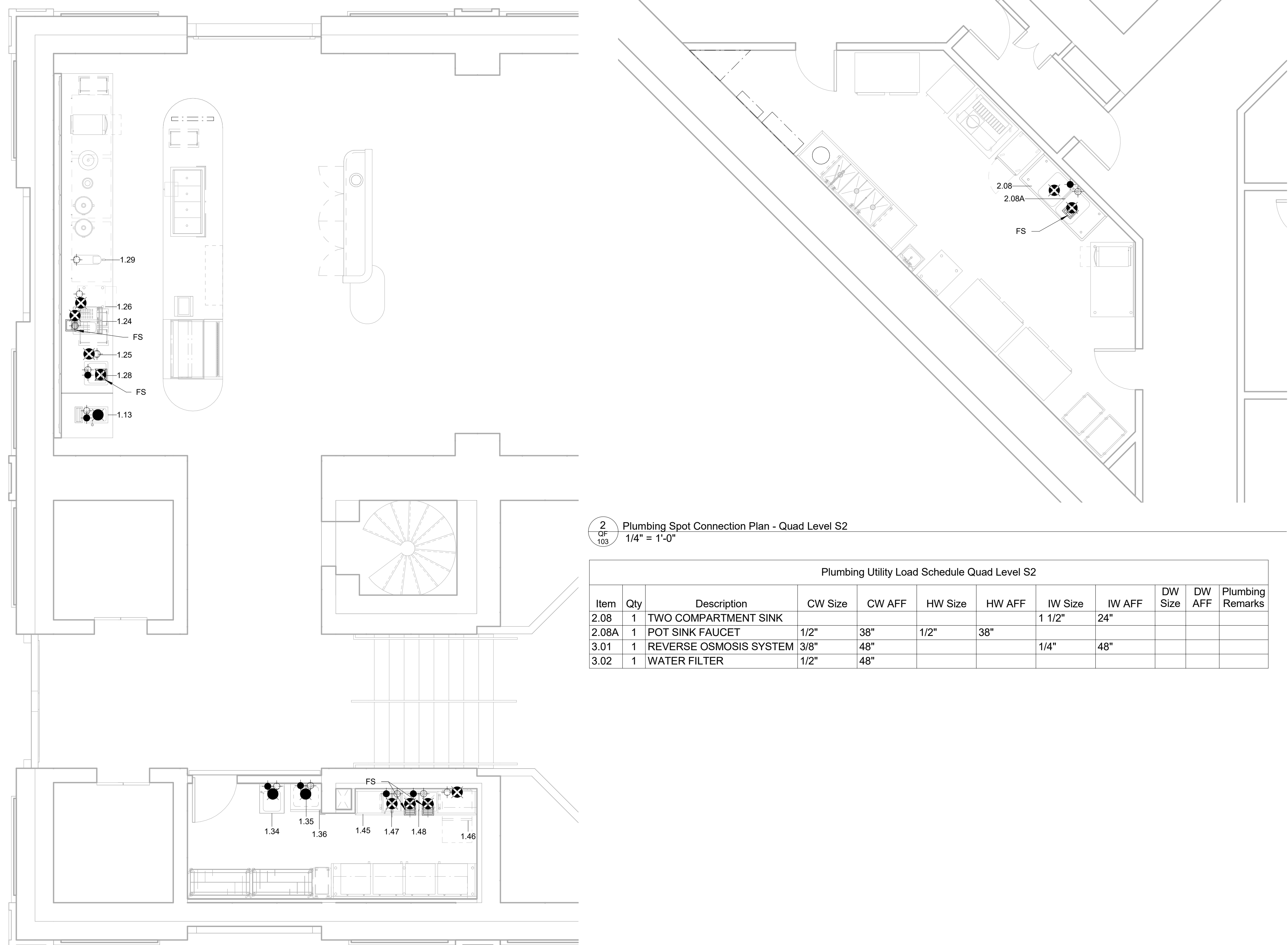
SHEET NO. 90 of 103
QF 102

PLUMBING / VENTILATION NOTES

- SERVICES SHOWN RELATE TO FOOD SERVICE EQUIPMENT REQUIREMENTS ONLY. SEE ARCHITECTURAL/ENGINEERING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- THE PLUMBING/MECHANICAL DIVISIONS ARE RESPONSIBLE FOR:
 - ALL WATER, WASTE, GAS, STEAM, AND HVAC SERVICE TO EQUIPMENT INCLUDING PIPING, FITTINGS, SLEEVES, STOPS, VALVES, TRAPS, CLEANOUTS, INSULATION, AND HARDWARE UP TO AND INCLUDING FINAL CONNECTIONS.
 - PROVISION OF ALL EXPOSED PIPING AND FITTINGS IN CHROME OR STAINLESS STEEL. ALL OTHERS PAINTED WITH TWO COATS SILVER.
 - INDIVIDUALLY VALVING EACH SUPPLY CONNECTION.
 - INTERCONNECTING VENTILATORS AND CONTROL PANELS, DETERGENT SYSTEMS, WASTE SYSTEMS AND WAREWASHER-BOOSTER HEATER.
 - INSTALLING FIRE CONTROL GAS SHUT-OFF VALVE PROVIDED BY FIRE SYSTEM CONTRACTOR.
 - INDIRECT WASTE LINES FROM WALK-IN REFRIGERATOR/FREEZER COILS IN COPPER, INCLUDING 15 WATT-PER LINEAL-FOOT HEAT TAPE AND INSULATION INSIDE FREEZERS, LINES SECURELY FASTENED 3/4" CLEAR OF WALLS.

PLUMBING SYMBOLS AND ABBREVIATIONS

Gas	G	
British Thermal Units (000s)	MBTU	
Cold Water	CW	
Hot Water	HW	
Cooling Tower Water	CTW	
Cooling Tower Water Return	CTWR	
Waste	W	
Indirect Waste	IW	
Air Gap Waste	AGW	
Funnel Floor Drain	FFD	
Floor Drain	FD	
Floor Sink	FS	
Grease Trap	GT	
Steam Supply	SS	
Condensate Return	CR	
Compressed Air	AIR	
Refrigeration Line	REF	
Down From Above	DFA	
Above Finished Floor	AFF	

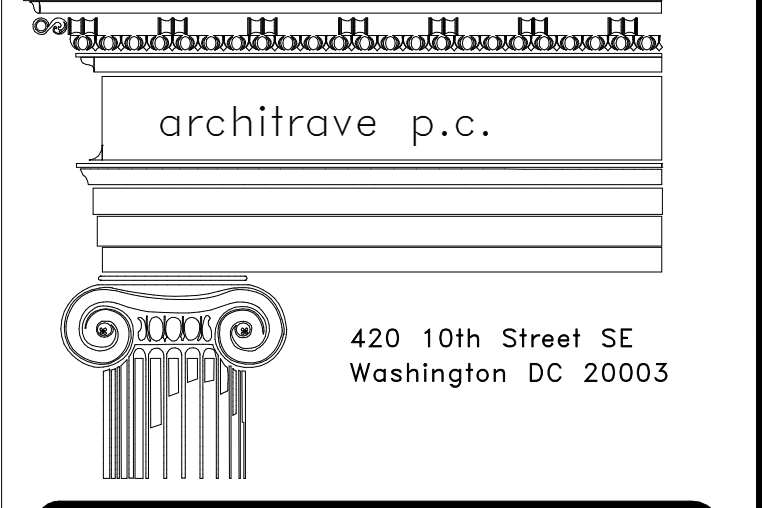


2 OF 103 Plumbing Spot Connection Plan - Quad Level S2
1/4" = 1'-0"

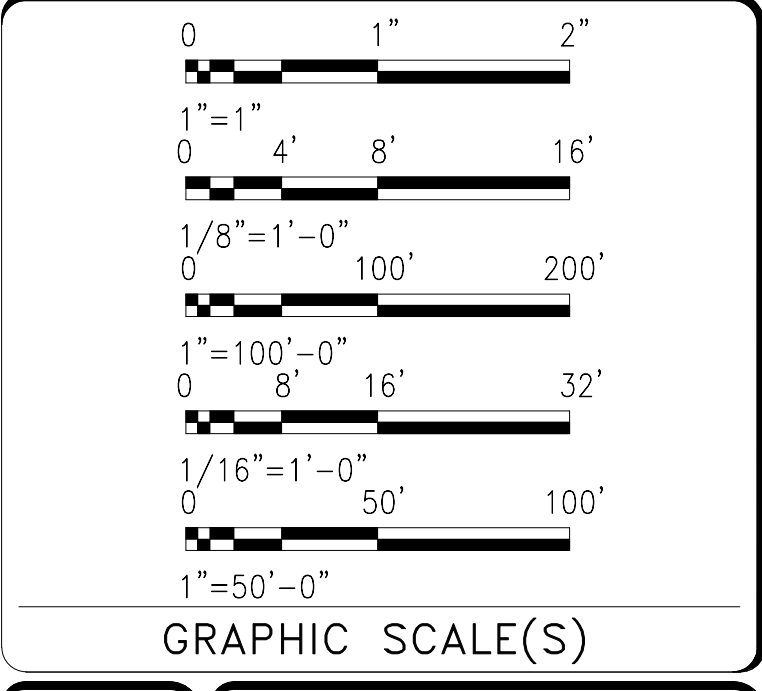
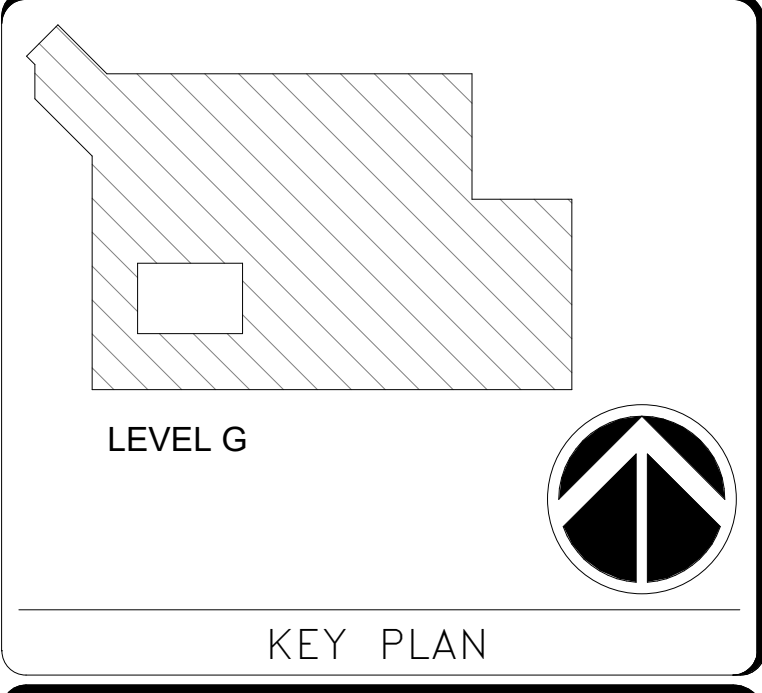
Item	Qty	Description	CW Size	CW AFF	HW Size	HW AFF	IW Size	IW AFF	DW Size	DW AFF	Plumbing Remarks
2.08	1	TWO COMPARTMENT SINK					1 1/2"	24"			
2.08A	1	POT SINK FAUCET	1/2"	38"	1/2"	38"					
3.01	1	REVERSE OSMOSIS SYSTEM	3/8"	48"			1/4"	48"			
3.02	1	WATER FILTER	1/2"	48"							

1 OF 103 Plumbing Spot Connection Plan - Pavilion
1/4" = 1'-0"

Item	Qty	Description	CW Size	CW AFF	HW Size	HW AFF	IW Size	IW AFF	DW Size	DW AFF	Plumbing Remarks
1.11	1	DROP-IN HOT/COLD WELLS WITH REFRIGERATED BASE					1"	12"			
1.13	1	HAND SINK, DROP-IN	1/2"	36"	1/2"	36"			1 1/2"	24"	
1.24	1	ESPRESSO MACHINE, AUTOMATED	3/8"	44"			1"	40"			WASTE PASSES THRU FOG INTERCEPTOR. INCOMING CW CONNECTED FROM CENTRAL RO FILTRATION SYSTEM
1.25	1	COUNTERTOP RINSER	3/8"	30"			1/2"	30"			WASTE PASSES THRU FOG INTERCEPTOR
1.26	1	ICE MAKER	3/4"	6"			3/4"	4 1/2"			INCOMING CW CONNECTED FROM CENTRAL RO FILTRATION SYSTEM
1.28	1	WORK SINK, DROP-IN	1/2"	36"	1/2"	36"	1 1/2"	24"			
1.29	1	HOT WATER DISPENSER	1/4"	40"							INCOMING CW CONNECTED FROM CENTRAL RO FILTRATION SYSTEM
1.34	1	HAND SINK, ADA	1/2"	34"	1/2"	34"			1 1/2"	24"	
1.35	1	MOP SINK FAUCET	1/2"	36"	1/2"	36"					
1.36	1	MOP SINK CABINET							2"	0"	WASTE PASSES THRU FOG INTERCEPTOR
1.45	1	THREE COMPARTMENT SINK					1 1/2"	24"			(3) IW CONNECTIONS. WASTE PASSES THRU FOG INTERCEPTOR
1.46	1	DISHWASHER, UNDERCOUNTER	3/4"	10"			3/4"	17 1/2"			
1.47	1	PRE-RINSE FAUCET WITH ADD-ON FAUCET	1/2"	38"	1/2"	38"					
1.48	1	SWING FAUCET, 12"	1/2"	38"	1/2"	38"					



FOR CONSTRUCTION



DATE	07/18/24	SUBMISSION	FINAL CONSTRUCTION DOCUMENTS
REVISION #	DATE	DESCRIPTION	

Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W., Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMMA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	FOODSERVICE PLUMBING SPOT CONNECTION PLANS AND UTILITY LOAD SCHEDULES
WORKING STAFF	JLP (DESIGNED BY), JLP (DRAWN BY), LKL (CHECKED BY)

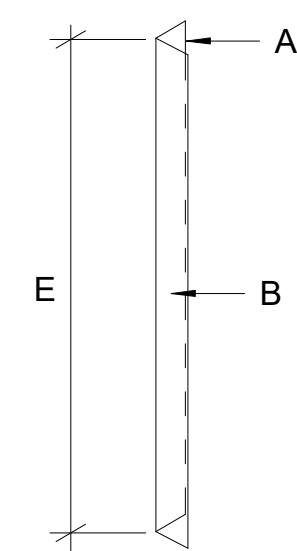
SHEET NO. **QF 103**
91 of 103

SPECIAL CONDITIONS NOTES

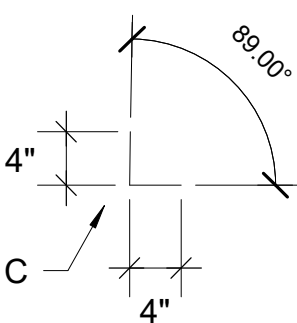
- NOTE A: CONTRACTOR SHALL ENSURE WET CHEMICAL FIRE SUPPRESSION SYSTEM IS INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND TO MEET ALL CODES REQUIRED. SEE DETAIL FP.1.
- NOTE B: CONTRACTOR SHALL PROVIDE DEPRESSION IN SLAB TO RECEIVE STAINLESS STEEL FLOOR TROUGH AND GRATING. SEE DETAIL FT.1. DEPRESSION TO BE LEVEL AND SMOOTH.
- NOTE C: PROVIDE OPENING IN WALL FOR FOODSERVICE PASS THROUGH WITH SHELF AND WALL FRAME PROVIDED BY KEC. ALLOW 1/4" CLEARANCE ON ALL SIDES OF UNIT. KEC TO ENSURE THAT BOTH SIDES OF WALL RECEIVE WALL FRAMING AS NECESSARY. SEE DETAIL PT.1
- NOTE D: PROVIDE OPENING IN WALL FOR FOODSERVICE PASS THROUGH WITH WALL FRAME PROVIDED BY KEC. ALLOW 1/4" CLEARANCE ON ALL SIDES OF UNIT. KEC TO ENSURE THAT BOTH SIDES OF WALL RECEIVE WALL FRAMING AS NECESSARY. SEE DETAIL PT.2
- NOTE E: GENERAL CONTRACTOR SHALL PROVIDE FOR BEVERAGE LINE CONDUIT TO RUN BEVERAGE LINES FOR KEC OR BEVERAGE VENDOR. SEE DETAIL SC.1.
- NOTE F: PROVIDE CYLINDRICAL VENT DUCT CONNECTION PER DETAIL V.1.
- NOTE G: PROVIDE RECTANGULAR VENT DUCT CONNECTION PER DETAIL V.2.
- NOTE H: CONTRACTOR SHALL PROVIDE 8" DEEP DEPRESSION IN SLAB TO RECEIVE WALK-IN BOX FLOOR. SEE DETAIL W.1. DEPRESSION TO BE LEVEL AND SMOOTH.
- NOTE I: CONTRACTOR SHALL PROVIDE 6" DEEP DEPRESSION IN SLAB TO RECEIVE WALK-IN BOX FLOOR. SEE DETAIL W.2. DEPRESSION TO BE LEVEL AND SMOOTH.
- NOTE J: CONTRACTOR SHALL PROVIDE 4" DEEP DEPRESSION IN SLAB TO RECEIVE WALK-IN BOX FLOOR. SEE DETAIL W.3. DEPRESSION TO BE LEVEL AND SMOOTH.
- NOTE K: CONTRACTOR SHALL INSTALL WALK-IN PER DETAIL W.4.
- NOTE L: CONTRACTOR SHALL ENSURE THAT ALL WALLS ARE PROPERLY REINFORCED TO SUPPORT ALL WALL SUPPORTED EQUIPMENT AS PER DETAIL WB.1.
- NOTE M: PROVIDE STAINLESS STEEL WALL PANEL PER DETAIL WP.1
- NOTE N: ENSURE OVERHEAD EQUIPMENT IS PROPERLY SUPPORTED.
- NOTE O: ENSURE WALL DEPTH IS SUFFICIENT TO RECEIVE RECESSED EQUIPMENT PROVIDED BY KEC.
- NOTE P: KEC SHALL VERIFY INSTALLATION HEIGHT OF FINISHED CEILING WITH FOODSERVICE EQUIPMENT AS SHOWN ON PLANS.
- NOTE Q: CONTRACTOR SHALL ENSURE THAT STRUCTURAL FLOOR IS ADEQUATE TO SUPPORT FULLY LOADED FOODSERVICE EQUIPMENT SUCH AS ICE MAKERS, LARGE OVENS, AND PACKAGE REFRIGERATION SYSTEMS.
- NOTE R: KEC TO VERIFY ALL MANUFACTURER'S RECOMMENDED POUR PATHS ARE MET BY FLOOR TROUGH LOCATION AND ENSURE FULL ACCEPTANCE OF FOOD PRODUCTS FROM EQUIPMENT.
- GENERAL NOTE: KEC TO COORDINATE ALL EQUIPMENT LEGS WITH FLOOR DRAIN AND FLOOR TROUGH LOCATIONS.

**SOME NOTES MAY NOT BE USED
SEE STANDARD DETAILS SHEET FOR DETAILS**

ANGLE TYPE

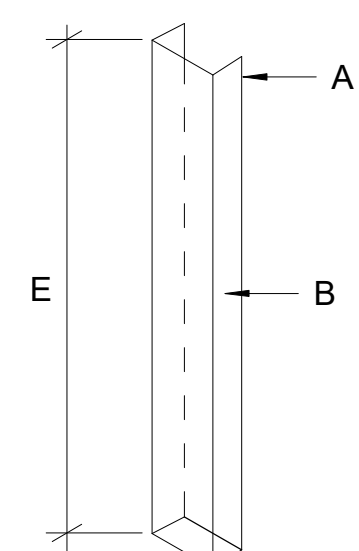


ISOMETRIC VIEW

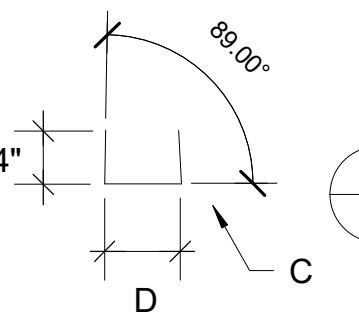


PLAN VIEW

CHANNEL TYPE



ISOMETRIC VIEW



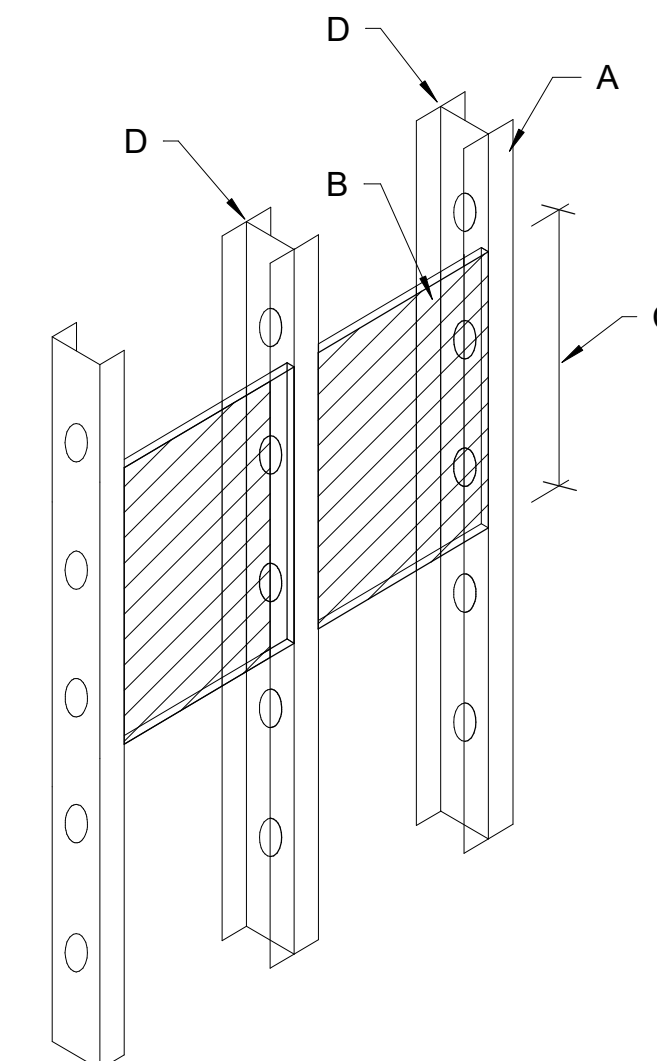
PLAN VIEW

- 14 GAUGE STAINLESS STEEL. ALL EDGES TO BE FULLY WELDED, GROUND SMOOTH AND POLISHED.
- INSTALL IMMEDIATELY ABOVE COVERED BASE. SET IN A BED OF SILICONE SEALANT. SECURE WITH STAINLESS STEEL COUNTERSUNK OVAL HEAD FASTENERS SUITABLE FOR WALL MATERIAL. CAULK ALL AROUND AND REMOVE EXCESS SEALANT.
- VERIFY RADIUS OF OUTSIDE CORNER TO BE PROTECTED, AND BRAKE IN 1/2" HUG-TITE EDGE FOR SNUG FIT.
- VERIFY FINISHED THICKNESS OF WALL AND ADD 1/8" FOR CLEARANCE.
- HEIGHT TO BE 42" OR AS SPECIFIED. WHERE HEIGHT OVERLAPS EQUIPMENT, REDUCE HEIGHT, AS APPROPRIATE.

CG.1
STAINLESS STEEL CORNER GUARD DETAIL NOT TO SCALE

2
OF
104 Special Conditions Plan - Quad Level S2
1/4" = 1'-0"

1
OF
104 Special Conditions Plan - Pavilion
1/4" = 1'-0"



- WOOD OR METAL WALL STUD (METAL SHOWN)
- 1/2" FIRE RESISTANT TREATED PLYWOOD OR 14 GAUGE GALVANIZED STEEL SHEET FOR WALL BACKING BETWEEN STUDS. (PLYWOOD SHOWN)
- PROVIDE WALL BACKING 12" ABOVE AND 12" BELOW FULL HEIGHT OF EQUIPMENT
- RUN STUD BACK TO BACK IN ORDER TO SECURE PLYWOOD PROPERLY

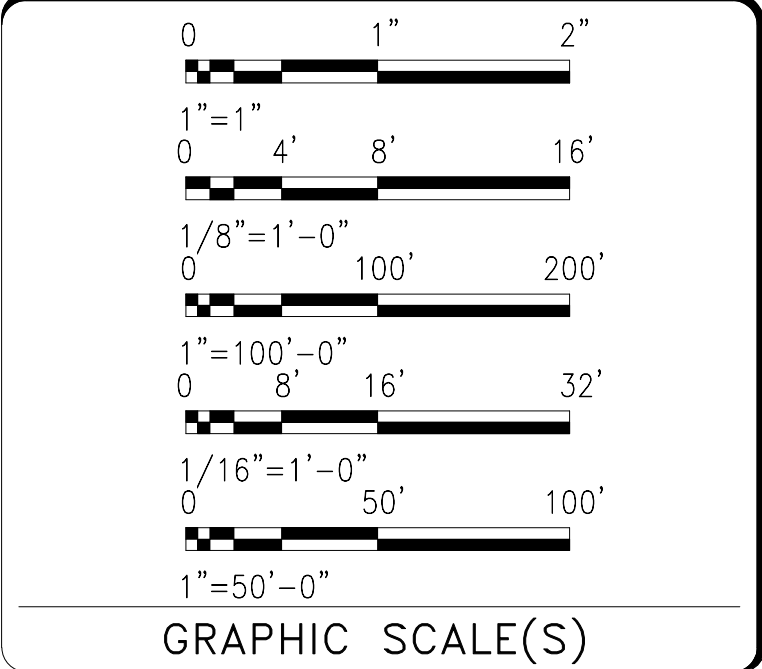
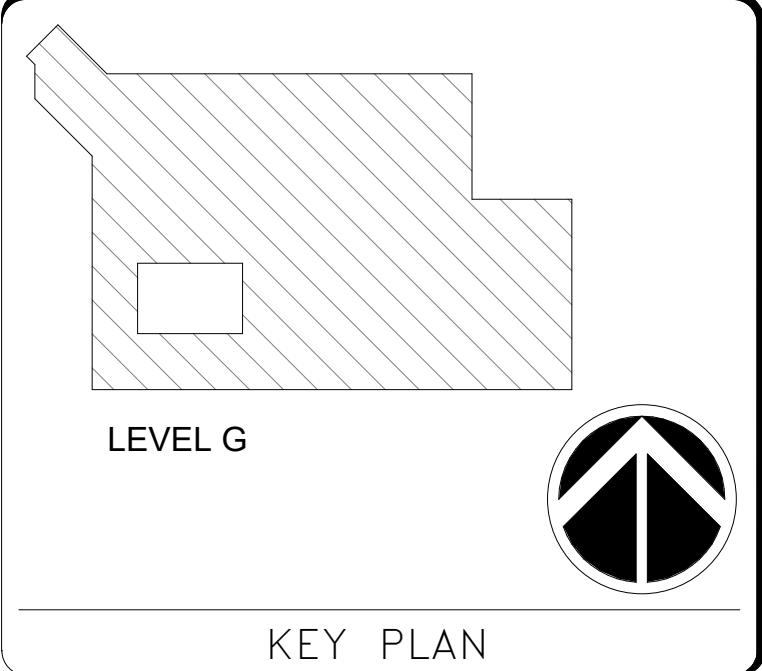
CONCRETE MASONRY WALLS DO NOT REQUIRE BLOCKING

ALL WORK SHOWN TO BE BY GENERAL CONTRACTOR UNLESS NOTED OTHERWISE

WB.1
WALL BACKING DETAIL NOT TO SCALE

architrave p.c.
420 10th Street SE
Washington DC 20003

FOR CONSTRUCTION



DATE	07/18/24	SUBMISSION	FINAL CONSTRUCTION DOCUMENTS
REVISION #	DATE	DESCRIPTION	

Smithsonian Institution

Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMMA		
ADDRESS	12th and Independence Avenue, SW, Washington DC		
PROJECT TITLE	CAFE AT SACKLER PAVILION		
SF PROJECT NUMBER	2209110		
A/E PROJECT NUMBER	1401.54		
DRAWING TITLE	FOODSERVICE SPECIAL CONDITIONS PLANS		
WORKING STAFF	JLP JLP LKL		
DESIGNED BY	JLP		
DRAWN BY	JLP		
CHECKED BY	LKL		
SHEET NO.	92 of 103		
DISCIPLINE	TYPE	SEQUENCE	DRAWING TYPE

SPECIAL CONDITIONS NOTES

NOTE A: CONTRACTOR SHALL ENSURE WET CHEMICAL FIRE SUPPRESSION SYSTEM IS INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND TO MEET ALL CODES REQUIRED. SEE DETAIL FP.1.

NOTE B: CONTRACTOR SHALL PROVIDE DEPRESSION IN SLAB TO RECEIVE STAINLESS STEEL FLOOR TROUGH AND GRATING. SEE DETAIL FT.1. DEPRESSION TO BE LEVEL AND SMOOTH.

NOTE C: PROVIDE OPENING IN WALL FOR FOODSERVICE PASS THROUGH WITH SHELF AND WALL FRAME PROVIDED BY KEC. ALLOW 1/4" CLEARANCE ON ALL SIDES OF UNIT. KEC TO ENSURE THAT BOTH SIDES OF WALL RECEIVE WALL FRAMING AS NECESSARY. SEE DETAIL PT.1

NOTE D: PROVIDE OPENING IN WALL FOR FOODSERVICE PASS THROUGH WITH WALL FRAME PROVIDED BY KEC. ALLOW 1/4" CLEARANCE ON ALL SIDES OF UNIT. KEC TO ENSURE THAT BOTH SIDES OF WALL RECEIVE WALL FRAMING AS NECESSARY. SEE DETAIL PT.2

NOTE E: GENERAL CONTRACTOR SHALL PROVIDE FOR BEVERAGE LINE CONDUIT TO RUN BEVERAGE LINES FOR KEC OR BEVERAGE VENDOR. SEE DETAIL SC.1.

NOTE F: PROVIDE CYLINDRICAL VENT DUCT CONNECTION PER DETAIL V.1.

NOTE G: PROVIDE RECTANGULAR VENT DUCT CONNECTION PER DETAIL V.2.

NOTE H: CONTRACTOR SHALL PROVIDE 6" DEEP DEPRESSION IN SLAB TO RECEIVE WALK-IN BOX FLOOR. SEE DETAIL W.1. DEPRESSION TO BE LEVEL AND SMOOTH.

NOTE I: CONTRACTOR SHALL PROVIDE 6" DEEP DEPRESSION IN SLAB TO RECEIVE WALK-IN BOX FLOOR. SEE DETAIL W.2. DEPRESSION TO BE LEVEL AND SMOOTH.

NOTE J: CONTRACTOR SHALL PROVIDE 4" DEEP DEPRESSION IN SLAB TO RECEIVE WALK-IN BOX FLOOR. SEE DETAIL W.3. DEPRESSION TO BE LEVEL AND SMOOTH.

NOTE K: CONTRACTOR SHALL INSTALL WALK-IN PER DETAIL W.4.

NOTE L: CONTRACTOR SHALL ENSURE THAT ALL WALLS ARE PROPERLY REINFORCED TO SUPPORT ALL WALL SUPPORTED EQUIPMENT AS PER DETAIL WB.1.

NOTE M: PROVIDE STAINLESS STEEL WALL PANEL PER DETAIL WP.1

NOTE N: ENSURE OVERHEAD EQUIPMENT IS PROPERLY SUPPORTED.

NOTE O: ENSURE WALL DEPTH IS SUFFICIENT TO RECEIVE RECESSED EQUIPMENT PROVIDED BY KEC.

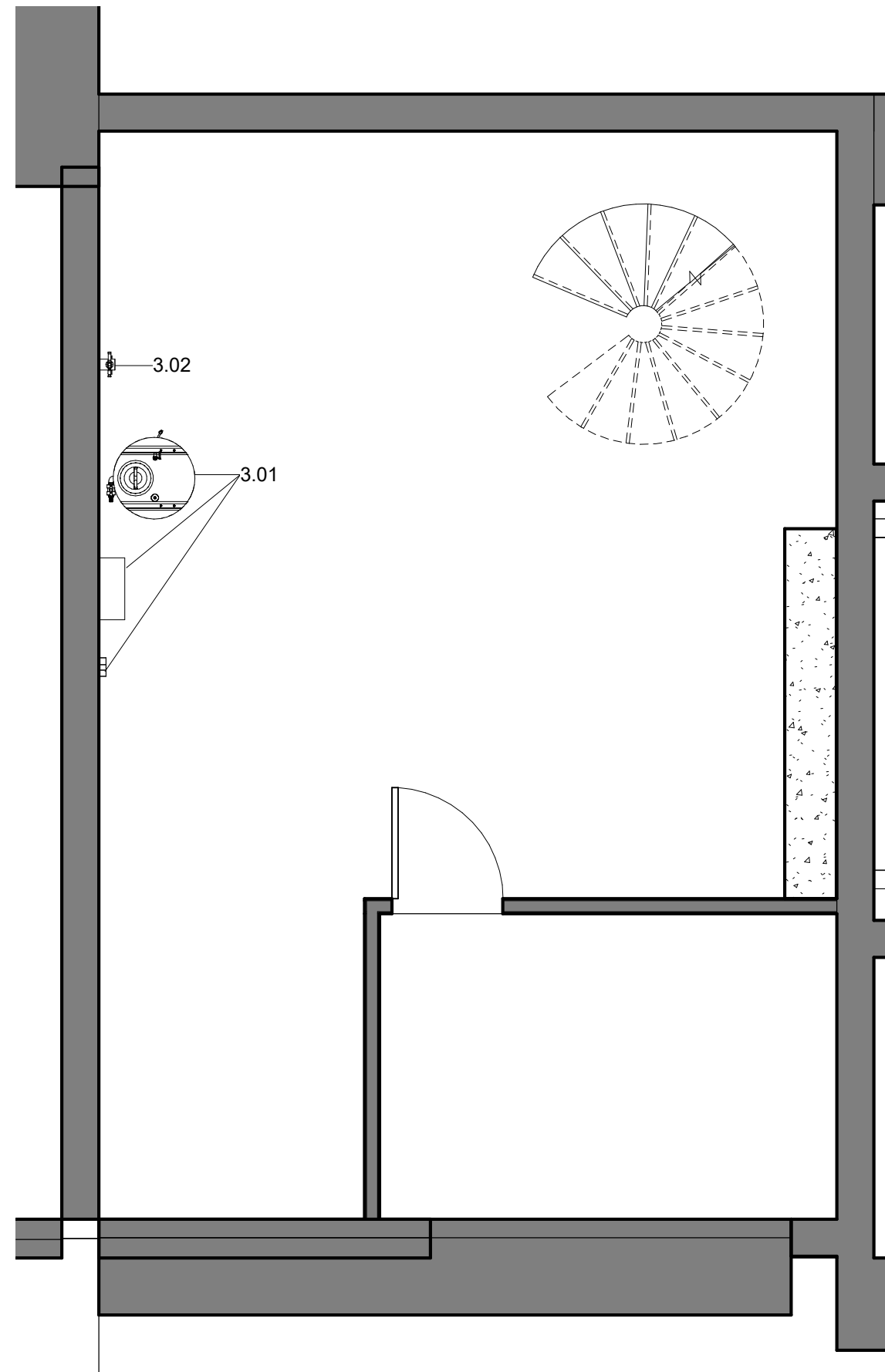
NOTE P: KEC SHALL VERIFY INSTALLATION HEIGHT OF FINISHED CEILING WITH FOODSERVICE EQUIPMENT AS SHOWN ON PLANS.

NOTE Q: CONTRACTOR SHALL ENSURE THAT STRUCTURAL FLOOR IS ADAQUTE TO SUPPORT FULLY LOADED FOODSERVICE EQUIPMENT SUCH AS ICE MAKERS, LARGE OVENS, AND PACKAGE REFRIGERATION SYSTEMS.

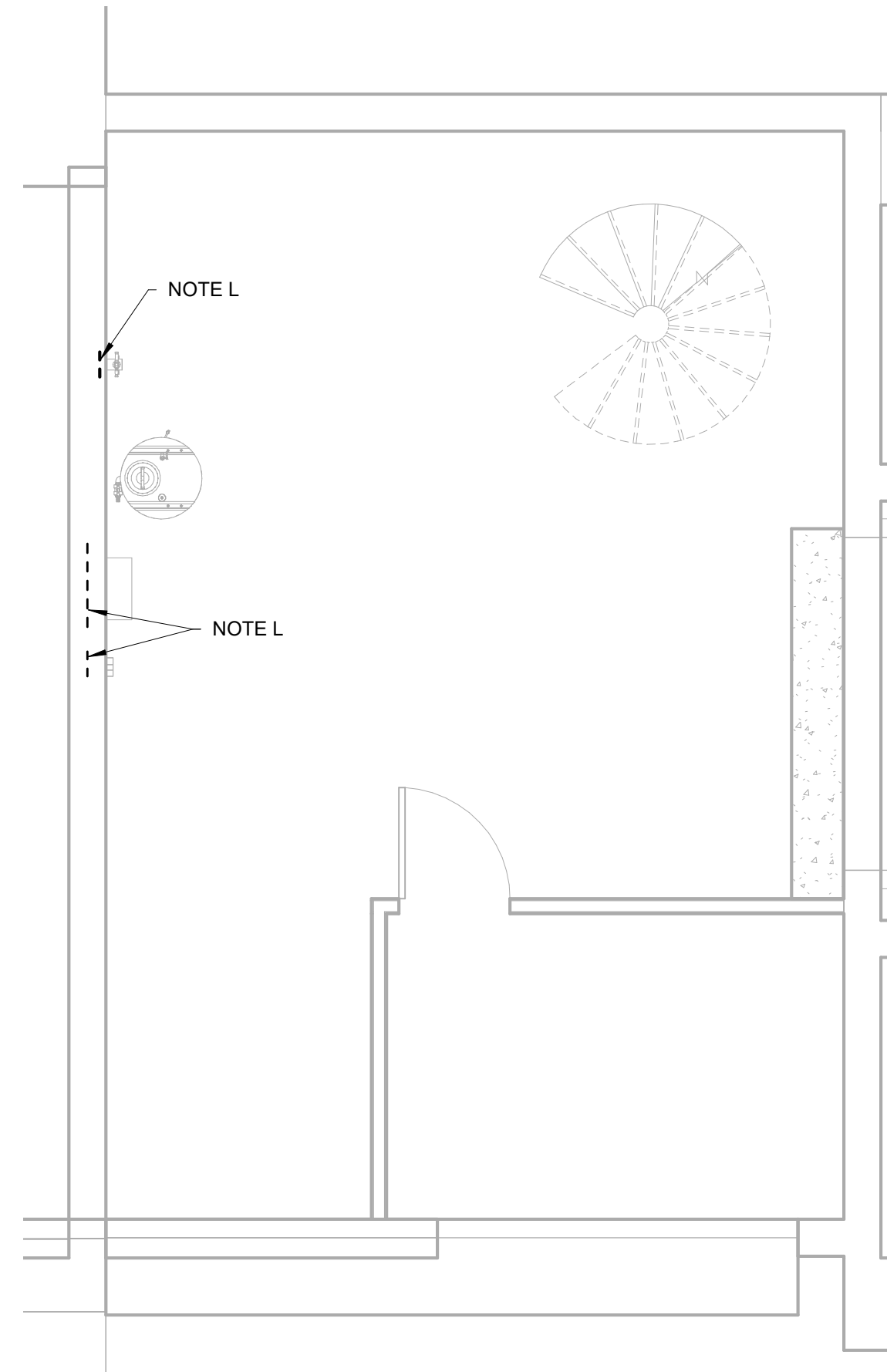
NOTE R: KEC TO VERIFY ALL MANUFACTURER'S RECOMMENDED POUR PATHS ARE MET BY FLOOR TROUGH LOCATION AND ENSURE FULL ACCEPTANCE OF FOOD PRODUCTS FROM EQUIPMENT.

GENERAL NOTE: KEC TO COORDINATE ALL EQUIPMENT LEGS WITH FLOOR DRAIN AND FLOOR TROUGH LOCATIONS.

**SOME NOTES MAY NOT BE USED
SEE STANDARD DETAILS SHEET FOR DETAILS**



1 OF 201 Equipment Plan - Mezzanine
1/4" = 1'-0"

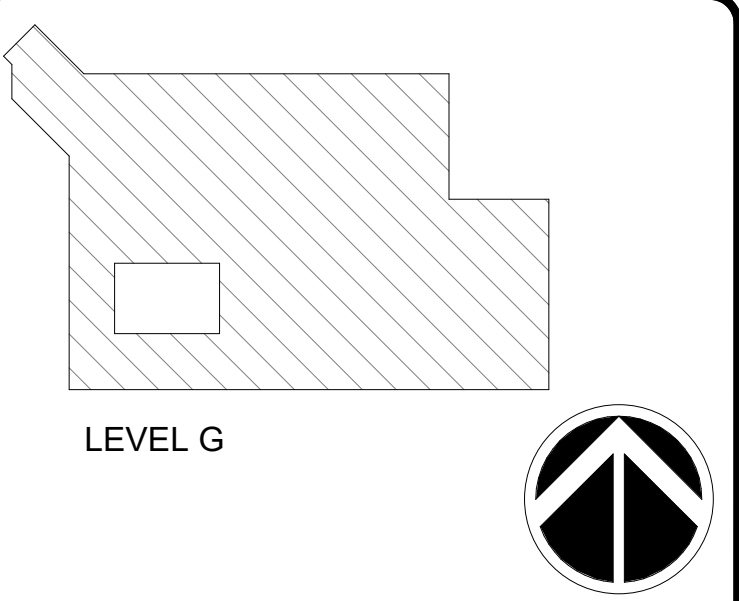


4 OF 201 Special Conditions Plan - Mezzanine
1/4" = 1'-0"

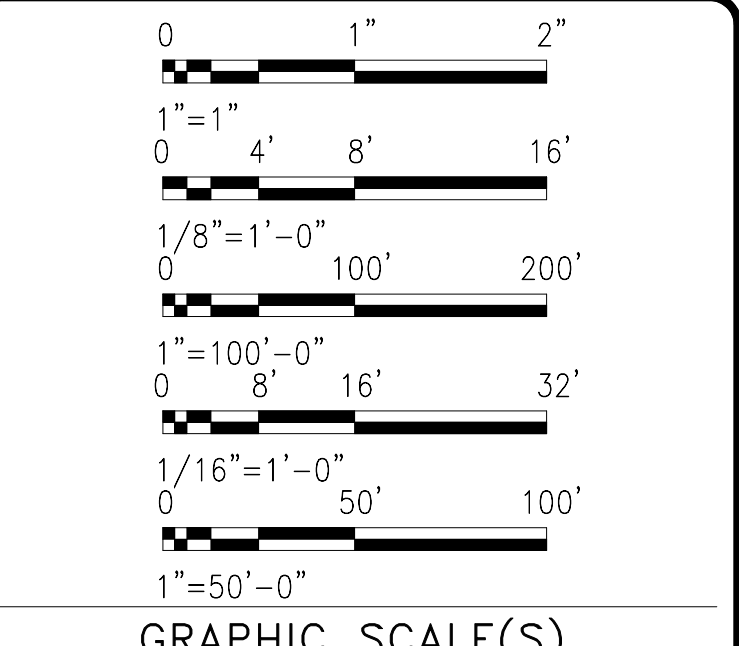
Equipment Schedule Mezzanine			
Item	QTY	Description	Schedule Remarks
3.01	1	REVERSE OSMOSIS SYSTEM	
3.02	1	WATER FILTER	



FOR CONSTRUCTION



KEY PLAN



DATE	07/18/24	SUBMISSION	FINAL CONSTRUCTION DOCUMENTS
REVISION #	DATE	DESCRIPTION	

BUILDING NAME	NMMA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	FOODSERVICE EQUIPMENT PLANS AND SCHEDULE -- MEZZANINE
WORKING STAFF	JLP JLP LKL
DESIGNED BY	JLP
DRAWN BY	JLP
CHECKED BY	LKL

SHEET NO. **QF 201**
94 of 103

ELECTRICAL NOTES

- SERVICES FOR CLOCK OUTLETS, TELEPHONE AND COMPUTER CONDUITS, HVAC SYSTEMS AND ROOM LIGHTING ARE SHOWN ON ARCHITECTURAL/ELECTRICAL DRAWINGS. SOME CONVENIENCE OUTLETS HAVE BEEN SHOWN ON THE FOODSERVICE EQUIPMENT PLANS.
- THE ELECTRICAL DIVISION IS RESPONSIBLE FOR:
 - ALL WIRING, FITTINGS, AND LABOR, UP TO AND INCLUDING FINAL CONNECTIONS.
 - INTERWIRING VENTILATOR, FIRE PROTECTION, WASTE DISPOSERS, REMOTE REFRIGERATION, AND DETERGENT PUMPING SYSTEMS.
 - PROVISION OF AREA SUB-PANELS IN LIEU OF DISCONNECT SWITCHES, WHEREVER POSSIBLE.
 - PROVISION OF ALL EXPOSED HARDWARE AND FIXTURES IN CHROME OR STAINLESS STEEL.
 - COORDINATION OF PANELBOARDS WITH EQUIPMENT LOCATIONS AND REQUIREMENTS.
 - PROVISION OF SHUNT-TRIP BREAKERS FOR COOKING EQUIPMENT AS REQUIRED.
 - EMPTY CONDUITS FOR CONTROL/COMPUTER WIRING AS REQUIRED.
- ALL ELECTRICAL WORK WITHIN FABRICATED EQUIPMENT WILL BE BY THE KEC, READY FOR FINAL, SINGLE POINT CONNECTION UNLESS OTHERWISE NOTED.
- FUTURE EQUIPMENT CONNECTIONS ARE TO BE COMPLETELY ROUGHED-IN AND WIRED, BUT WITH COVERPLATES FOR FUTURE USE.
- PROVIDE CONVENIENCE OUTLETS ON WALLS THROUGHOUT THE FOODSERVICE FACILITY, EXCEPT ABOVE DEEP SINKS OR DISHWASHING EQUIPMENT. OUTLETS ABOVE COUNTERS AND WORK TABLES SHOULD BE 48" ABOVE THE FLOOR WHERE COUNTERS OR TABLES ARE ON A WALL. OUTLETS ON OPEN RUNS OF WALL SHOULD BE 18" ABOVE THE FLOOR. GENERALLY, OUTLETS SHOULD BE SPACED EVERY 6'-0", WITH MINIMUM OF TWO (2) OUTLETS ABOVE ANY COUNTER OR WORK TABLE. TWO OUTLETS PER 20 AMP CIRCUIT IS ACCEPTABLE. SEE ELECTRICAL DRAWINGS FOR ANY ADDITIONAL OUTLETS.
- DROP CORDS SHALL BE LOCATED GENERALLY WHERE THEY ARE SHOWN ON OUR FOODSERVICE ELECTRICAL SPOT CONNECTION PLAN(S). DROP CORDS AT REST SHALL BE 6'-8" AFF WHEN OVER OPEN FLOOR SPACE OR MOBILE TABLES OR COUNTERS AND 6'-0" WHEN ABOVE STATIONARY TABLES OR COUNTERS. IF DROP CORDS ARE LOCATED FOR THE SOLE PURPOSE OF PROVIDING POWER TO TALL ITEMS OF EQUIPMENT, THEY SHALL HANG AT A HEIGHT APPROPRIATE TO THE EQUIPMENT. SEE ELECTRICAL DRAWINGS FOR ANY ADDITIONAL OUTLETS.

ELECTRICAL SYMBOLS AND ABBREVIATIONS

Single Receptacle	SR	
Duplex Receptacle	DR	
Switch	SW	
Junction Box	JB	
Drop Cord From Ceiling	DC	
Data/Communications	DA	
Electrical Connection	EC	
Control Wiring Interconnection	IC	
Empty Junction Box	EJ	
Amp	A	
Kilowatt	KW	
Horsepower	HP	
Volt	V	
Phase	PH	
Above Finished Floor	AFF	
Down from Above	DFA	

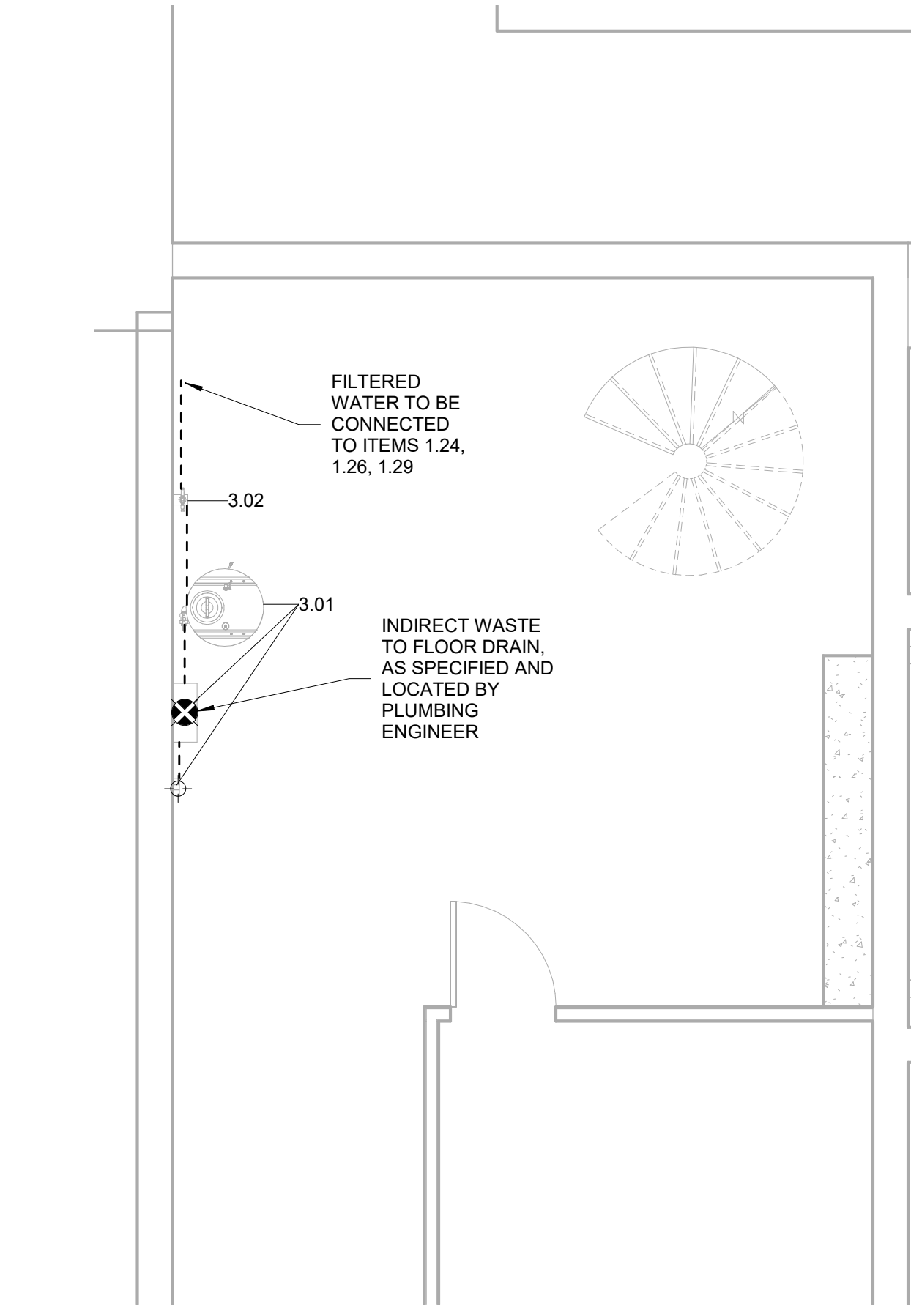
PLUMBING / VENTILATION NOTES

- SERVICES SHOWN RELATE TO FOOD SERVICE EQUIPMENT REQUIREMENTS ONLY. SEE ARCHITECTURAL/ENGINEERING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- THE PLUMBING/MECHANICAL DIVISIONS ARE RESPONSIBLE FOR:
 - ALL WATER, WASTE, GAS, STEAM, AND HVAC SERVICE TO EQUIPMENT INCLUDING PIPING, FITTING, SLEEVES, STOPS, VALVES, TRAPS, CLEANOUTS, INSULATION, AND HARDWARE UP TO AND INCLUDING FINAL CONNECTIONS.
 - PROVISION OF ALL EXPOSED PIPING AND FITTINGS IN CHROME OR STAINLESS STEEL, ALL OTHERS PAINTED WITH TWO COATS SILVER.
 - INDIVIDUALLY VALVING EACH SUPPLY CONNECTION.
 - INTERCONNECTING VENTILATORS AND CONTROL PANELS, DETERGENT SYSTEMS, WASTE SYSTEMS AND WAREWASHER-BOOSTER HEATER.
 - INSTALLING FIRE CONTROL GAS SHUT-OFF VALVE PROVIDED BY FIRE SYSTEM CONTRACTOR.
 - INDIRECT WASTE LINES FROM WALK-IN REFRIGERATOR/FREEZER COILS IN COPPER, INCLUDING 15 WATT-PER LINEAL-FOOT HEAT TAPE AND INSULATION INSIDE FREEZERS, LINES SECURELY FASTENED 3/4" CLEAR OF WALLS.

PLUMBING SYMBOLS AND ABBREVIATIONS

Gas	G	
British Thermal Units (000s)	MBTU	
Cold Water	CW	
Hot Water	HW	
Cooling Tower Water	CTW	
Cooling Tower Water Return	CTWR	
Waste	W	
Indirect Waste	IW	
Air Gap Waste	AGW	
Funnel Floor Drain	FFD	
Floor Drain	FD	
Floor Sink	FS	
Grease Trap	GT	
Steam Supply	SS	
Condensate Return	CR	
Compressed Air	AIR	
Refrigeration Line	REF	
Down From Above	DFA	
Above Finished Floor	AFF	

2 OF 202 Electrical Spot Connection Plan - Mezzanine
1/4" = 1'-0"



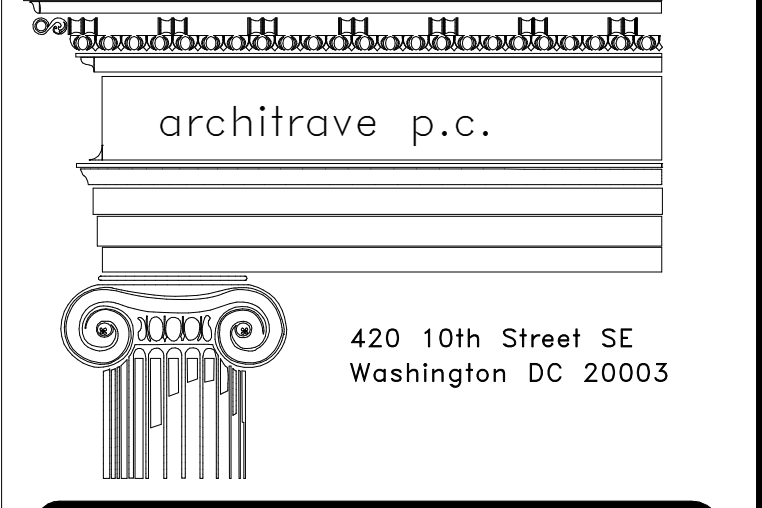
1 OF 202 Plumbing Spot Connection Plan - Mezzanine
1/4" = 1'-0"

Electrical Utility Load Schedule Mezzanine

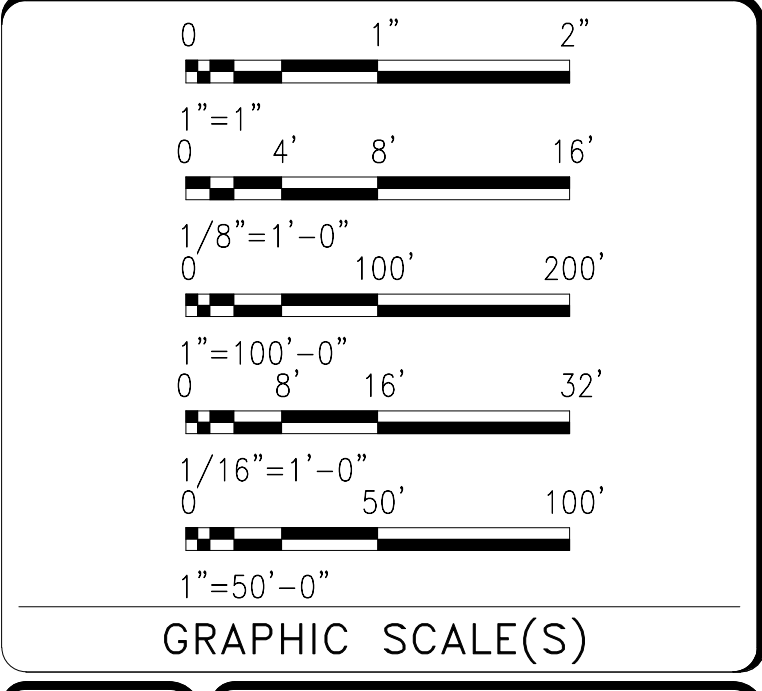
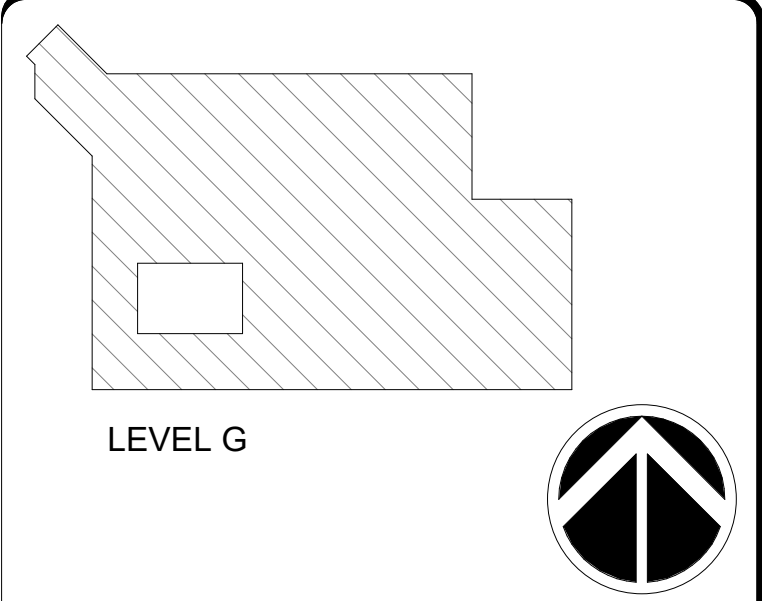
Item	Qty	Description	Elec Conn	AFF	Volts	PH	FL Amps	Electrical Remarks
3.01	1	REVERSE OSMOSIS SYSTEM	NEMA 5-15P	48"	120	1	10.0	

Plumbing Utility Load Schedule Mezzanine

Item	Qty	Description	CW Size	CW AFF	HW Size	HW AFF	IW Size	IW AFF	DW Size	DW AFF	Plumbing Remarks
3.01	1	REVERSE OSMOSIS SYSTEM	3/8"	48"			1/4"	48"			
3.02	1	WATER FILTER	1/2"	48"							



FOR CONSTRUCTION



DATE	07/18/24	REVISION	FINAL CONSTRUCTION DOCUMENTS
REVISION #	DATE	REVISION DESCRIPTION	

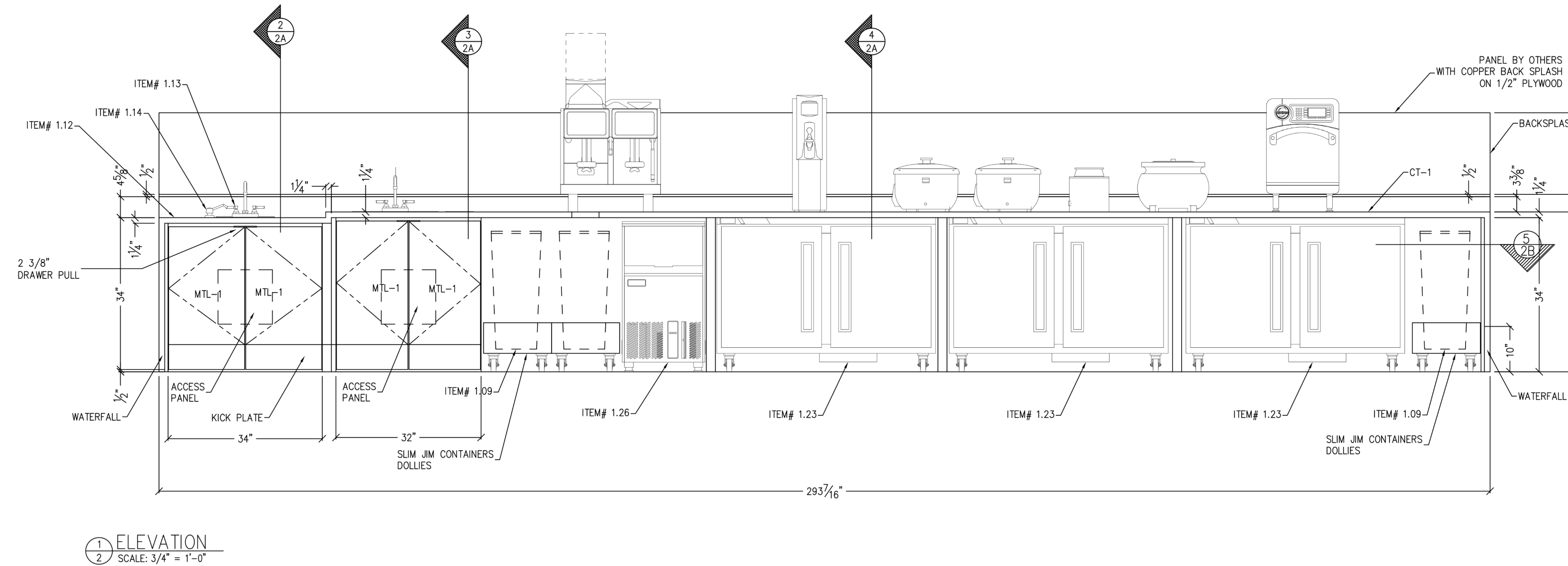
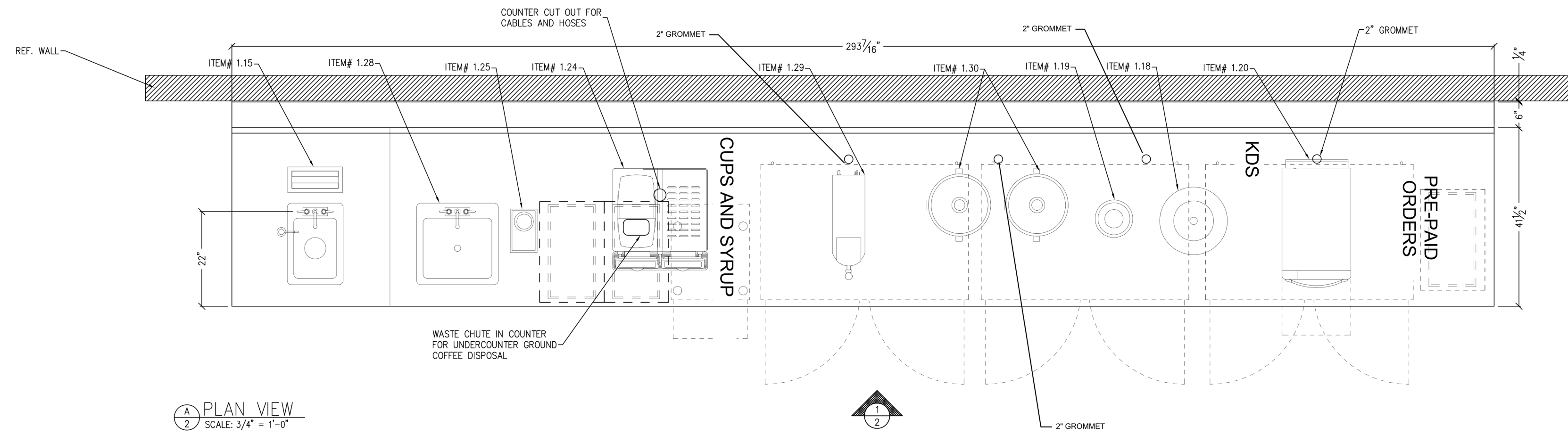


BUILDING NAME	NMMA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	FOODSERVICE ELECTRICAL AND PLUMBING SPOT CONNECTION PLANS AND UTILITY LOAD SCHEDULES - MEZZANINE
WORKING STAFF	DESIGNED BY: LKL DRAWN BY: LKL CHECKED BY:

SHEET NO. 95 of 103
QF 202

7/19/2024 10:44:45 AM
 OF 304 BY Approver 10.23.23 FINAL CONSTRUCTION DOCUMENTS

ITEM NO.	QTY	DESCRIPTION	MANUFACTURING/ MODEL
1.09	3	WASTE RECEPTACLE, 23 GALLON	RUBBERMAID 3540
1.12	1	BACK COUNTER	
1.13	1	HAND SINK DROP-IN	ADVANCE TABCO DI-1-5
1.14	1	SOAP DISPENSER	BOBRICK B-822
1.15	1	PAPER TOWER DISPENSER	BOBRICK B-526
1.18	1	SOUP KETTLE, COUNTER TOP	VOLLRATH 72170
1.19	1	FOOD WARMER, COUNTER TOP	VOLLRATH 72430
1.20	1	RAPID COOK OVEN	TURBOCHEF SOTA-TOUCH CONTROL
1.23	3	REFRIGERATOR, UNDER COUNTER	TRAUlsen CLUC-48R-SD-LR
1.24	1	ESPRESSO MACHINE, AUTOMATED	E4MS/CLASSIC
1.25	1	COUNTERTOP RINSER	ESPRESSO PARTS EPRCT6102
1.26	1	ICE MAKER	ICE-O-MATIC UCG100A
1.28	1	WORK SINK, DROP IN	ADVANCE TABCO DI-1-168
1.29	1	HOT WATER DISPENSER	CURTIS WBS6NB
1.30	2	RICE/GRAIN COOKER	TOWN 56822



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FINISH
 CF1: HALF ROUND TAMBOUR W/ DRIP EDGE
 PL-2: RPI STANDARD BLACK LAMINATE
 MTL-1: 304 STAINLESS STEEL, #8 FINISH
 CT-1: 3CM CORIAN QUARTZ IN BEIGE ROYALE
 MT2: COPPER, ASTM B370
 WD-1: SOLID WOOD (WALNUT)
 CT-2: SOLID SURFACE COUNTERTOP

HARDWARE
 DESCRIPTION

H1 -
 H2 -
 H3 -

NO.	DESCRIPTION	BY	DATE
R1	REVISION	JL	05/30/2024
R2	REVISION	JL	07/11/2024

PROJECT TITLE:
 NMAA - SACKLER GALLERY

DRAWING TITLE:
 ITEM# 1.12
 BACK COUNTER
 (1 - REQ'D)

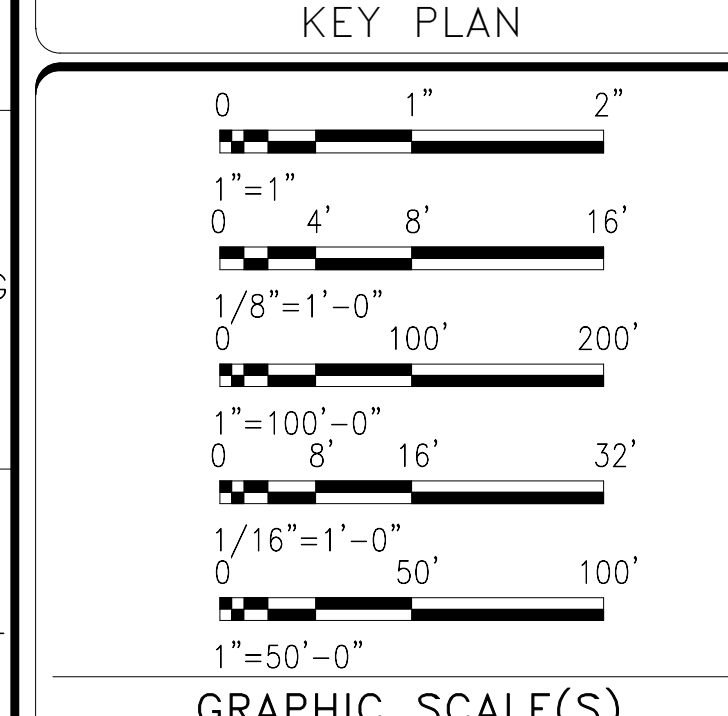
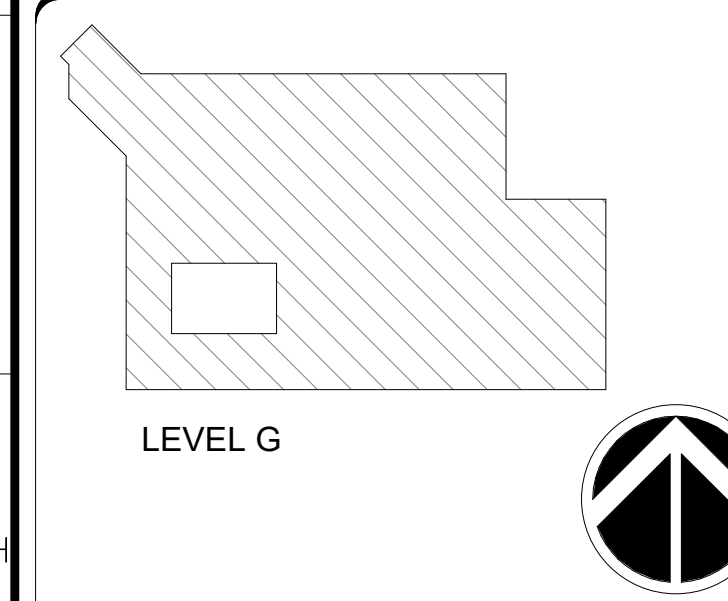
RPI INDUSTRIES, INC.
 220 Route 70
 Suite A
 Medford, NJ 08055
 609-714-2330 (PHONE)
 609-714-2331 (FAX)
 website: rpiindustries.com



JOB NO. 32098 SHEET NO. 2
 DATE: 05/15/2024
 DRAWN BY: JL
 SCALE: AS NOTED

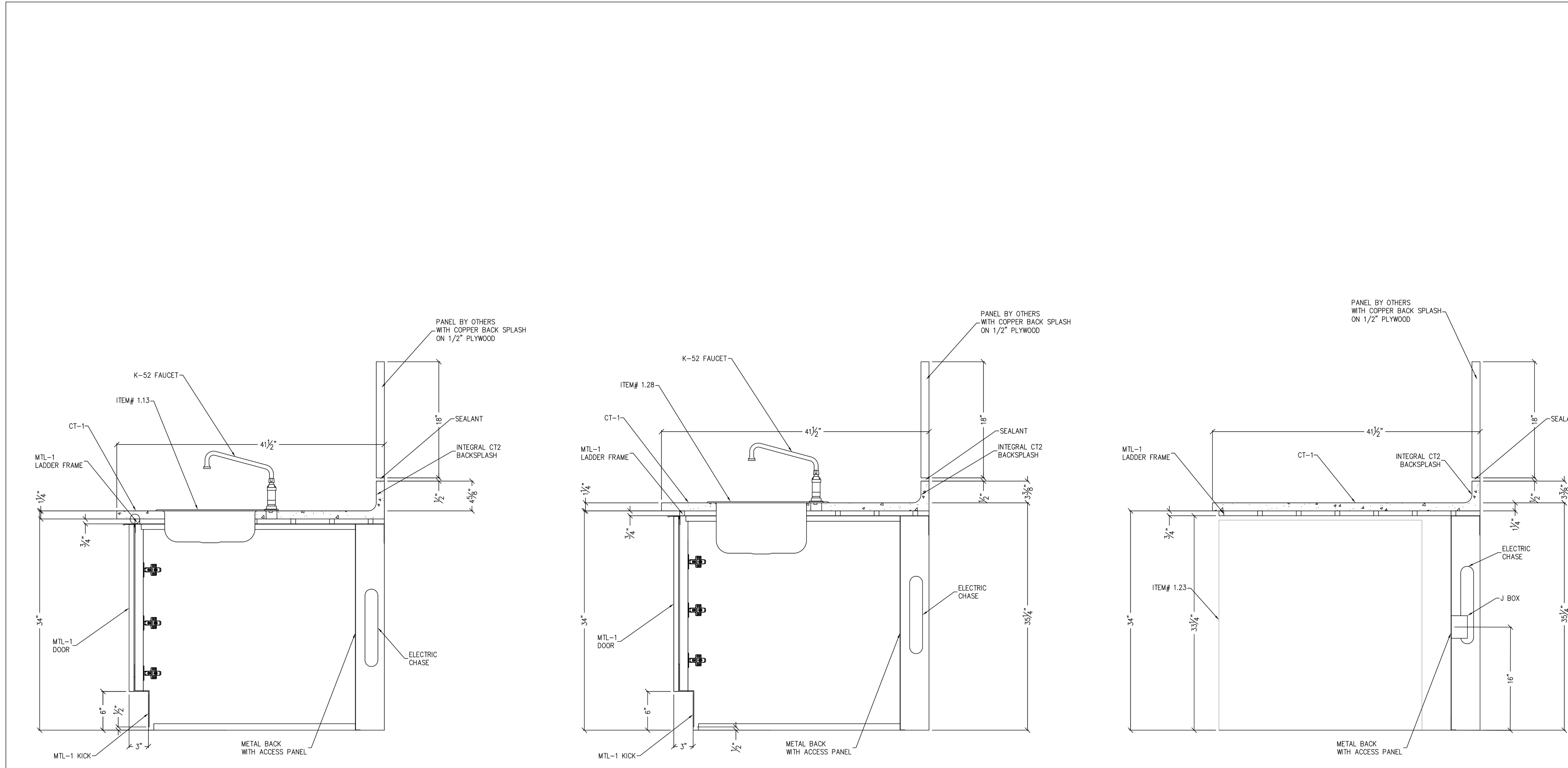
architrave p.c.
 420 10th Street SE
 Washington DC 20003

FOR CONSTRUCTION



DATE	SUBMISSION
07/18/24	FINAL CONSTRUCTION DOCUMENTS

BUILDING NAME	NMMA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	FOODSERVICE COUNTER DRAWINGS
WORKING STAFF	JLP JLP LKL
SHEET NO.	65 OF 69
DISCIPLINE	TYPE SEQUENCE DRAWING TYPE



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FINISH

CT1:	HALF ROUND TAMBOUR W/ DRIP EDGE
PL-2:	RPI STANDARD BLACK LAMINATE
MTL-1:	304 STAINLESS STEEL #4 FINISH
CT-1:	3CM CORIAN QUARTZ IN BEIGE ROYALE
MT2:	COPPER, ASTM B370
WD-1:	SOLID WOOD (WALNUT)
CT-2:	SOLID SURFACE COUNTERTOP

HARDWARE

H#	DESCRIPTION
H1	
H2	
H3	

REVISIONS

NO.	DESCRIPTION	BY	DATE
R1	REVISION	JL	05/30/2024
R2	REVISION	JL	07/17/2024

GRAPHIC SCALE(S)

0	1"	2"	
0	4'	8'	16'
0	100'	200'	
0	8'	16'	32'
0	50'	100'	

PROJECT TITLE:
 NMAA - SACKLER GALLERY

DRAWING TITLE:
 ITEM# 1.12
 BACK COUNTER
 (1 - REQ'D)

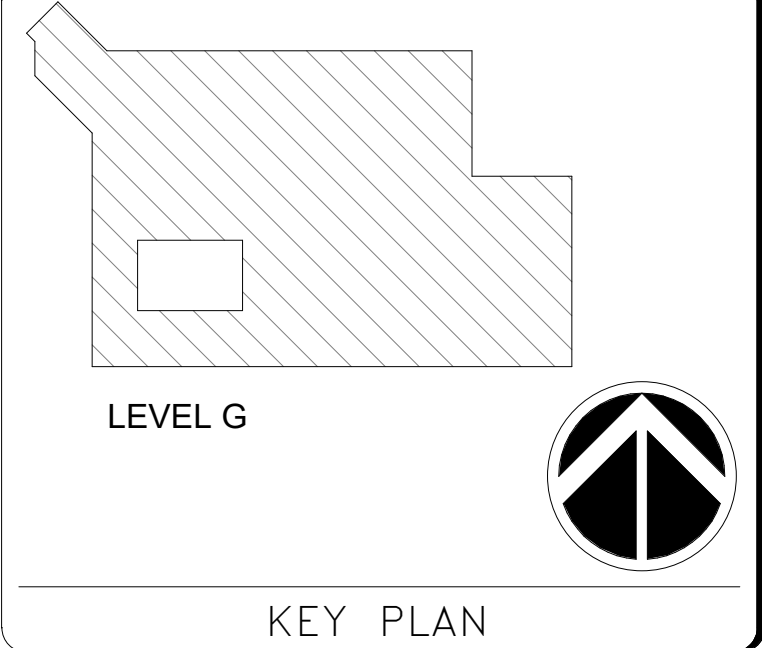
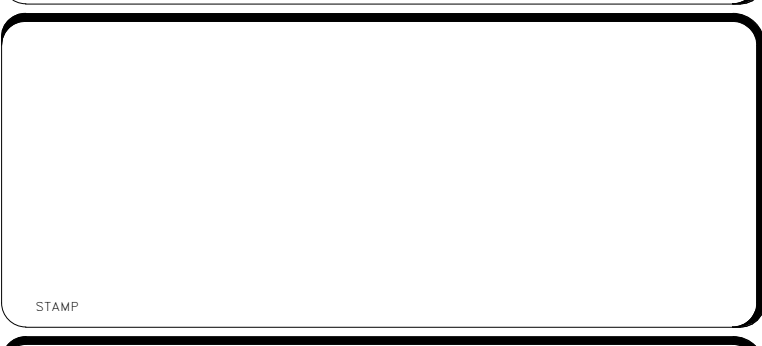
RPI INDUSTRIES, INC.
 220 Route 70
 Suite A
 Medford, NJ 08055
 609-714-2330 (PHONE)
 609-714-2331 (FAX)
 website: rpiindustries.com



JOB NO. 32098 SHEET NO. 2A
 DATE: 05/15/2024
 DRAWN BY: JL
 SCALE: AS NOTED

architrave p.c.
 420 10th Street SE
 Washington DC 20003

FOR CONSTRUCTION



GRAPHIC SCALE(S)

0	1"	2"	
0	4'	8'	16'
0	100'	200'	
0	8'	16'	32'
0	50'	100'	

FINAL CONSTRUCTION DOCUMENTS

DATE	07/18/24
REVISION #	
REVISION DESCRIPTION	

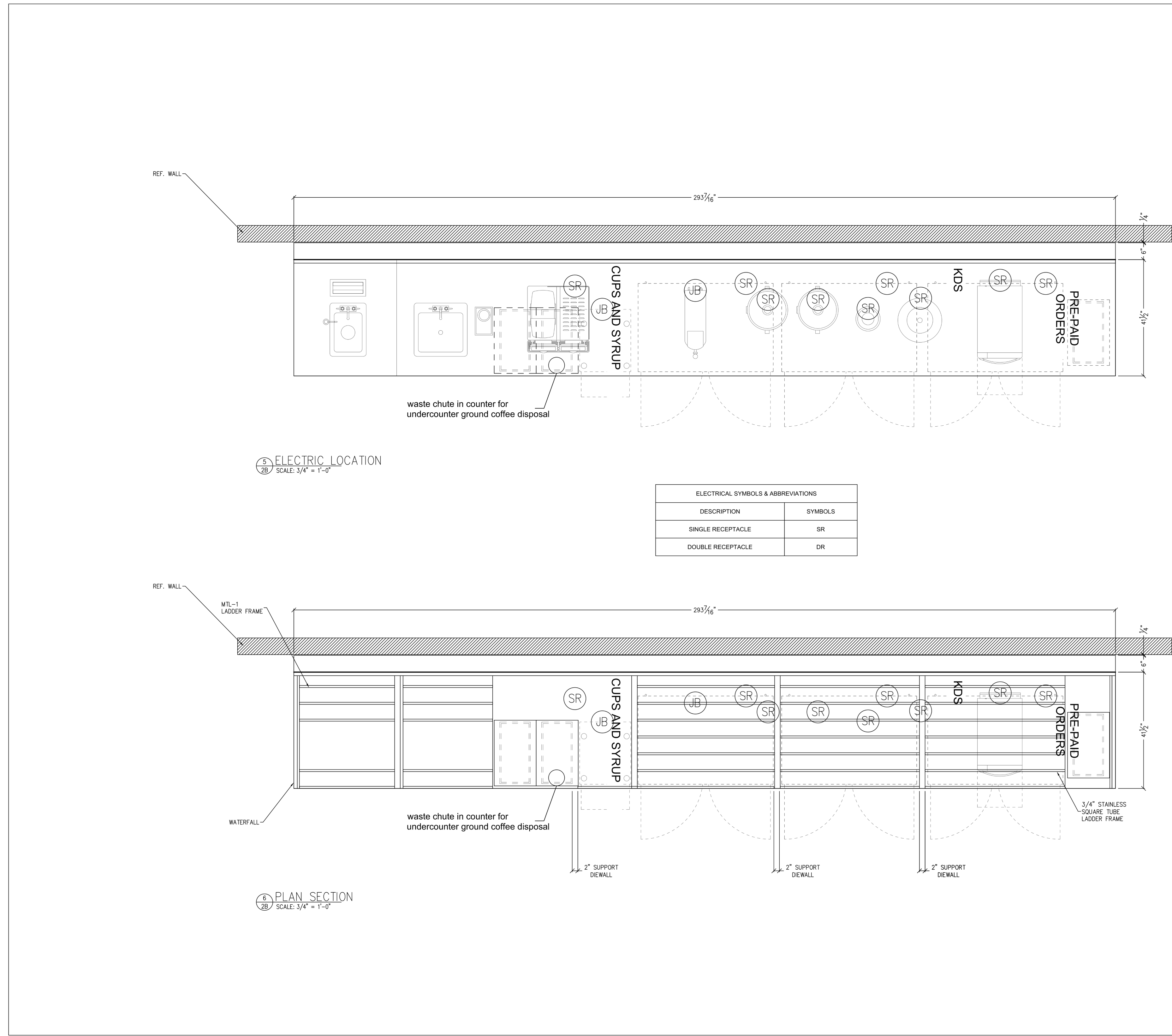
Smithsonian Institution
 Smithsonian Facilities
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME: NMMA
 ADDRESS: 12th and Independence Avenue, SW, Washington DC

PROJECT TITLE: CAFE AT SACKLER PAVILION
 SF PROJECT NUMBER: 2209110
 A/E PROJECT NUMBER: 1401.54

DRAWING TITLE: FOODSERVICE COUNTER DRAWINGS
 WORKING STAFF: JLP, JLP, LKL

SHEET NO. 100 of 103
QF 305



5
2B
ELECTRIC LOCATION
 SCALE: 3/4" = 1'-0"

6
2B
PLAN SECTION
 SCALE: 3/4" = 1'-0"

ELECTRICAL SYMBOLS & ABBREVIATIONS	
DESCRIPTION	SYMBOLS
SINGLE RECEPTACLE	SR
DOUBLE RECEPTACLE	DR

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FINISH	
CF-1:	HALF ROUND TAMBOUR W/ DRIP EDGE
PL-2:	RPI STANDARD BLACK LAMINATE
MTL-1:	304 STAINLESS STEEL #4 FINISH
CT-1:	3CM CORIAN QUARTZ IN BEIGE ROYALE
MT-2:	COPPER ASTM B370
WD-1:	SOLID WOOD (WALNUT)
CT-2:	SOLID SURFACE COUNTERTOP

HARDWARE	
H#	DESCRIPTION
H1	
H2	
H3	

REVISIONS			
NO.	DESCRIPTION	BY	DATE
R1	REVISION	JL	05/30/2024
R2	REVISION	JL	07/17/2024

PROJECT TITLE:
NMAA - SACKLER GALLERY

DRAWING TITLE:
**ITEM# 1.12
 BACK COUNTER
 ELECTRIC LOCATION
 (1 - REQ'D)**

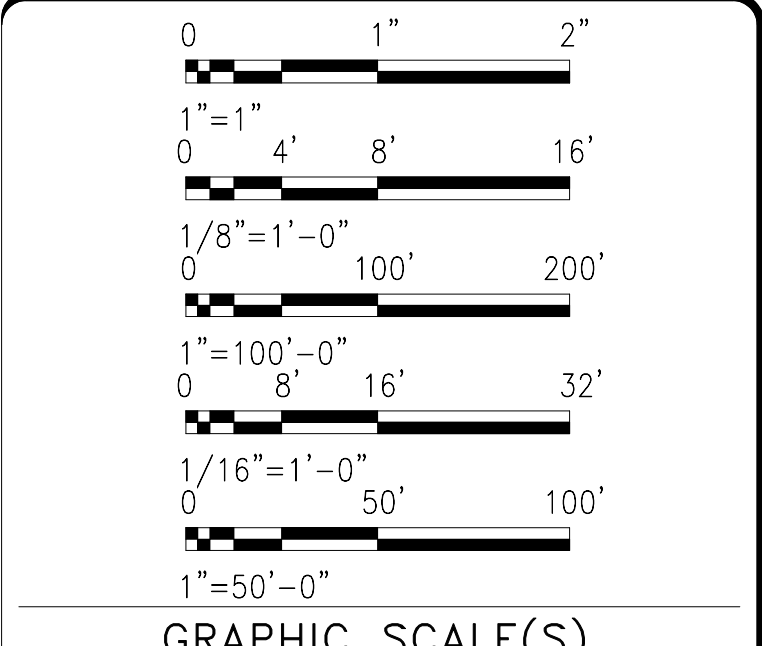
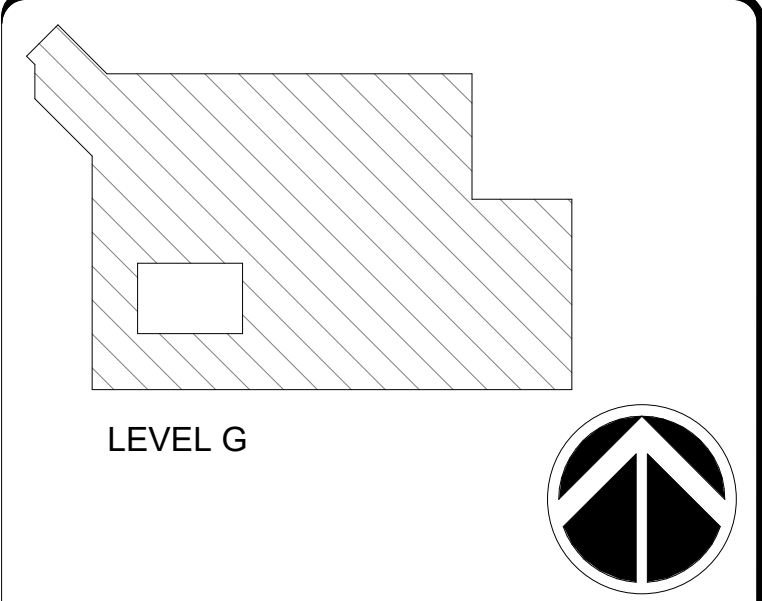
RPI INDUSTRIES, INC.
 220 Route 70
 Suite A
 Medford, NJ 08055
 609-714-2330 (PHONE)
 609-714-2331 (FAX)
 website: rpiindustries.com



JOB NO. 32098 SHEET NO. 2B
 DATE: 05/15/2024
 DRAWN BY: JL
 SCALE: AS NOTED SHEET 3 OF 3

architrave p.c.
 420 10th Street SE
 Washington DC 20003

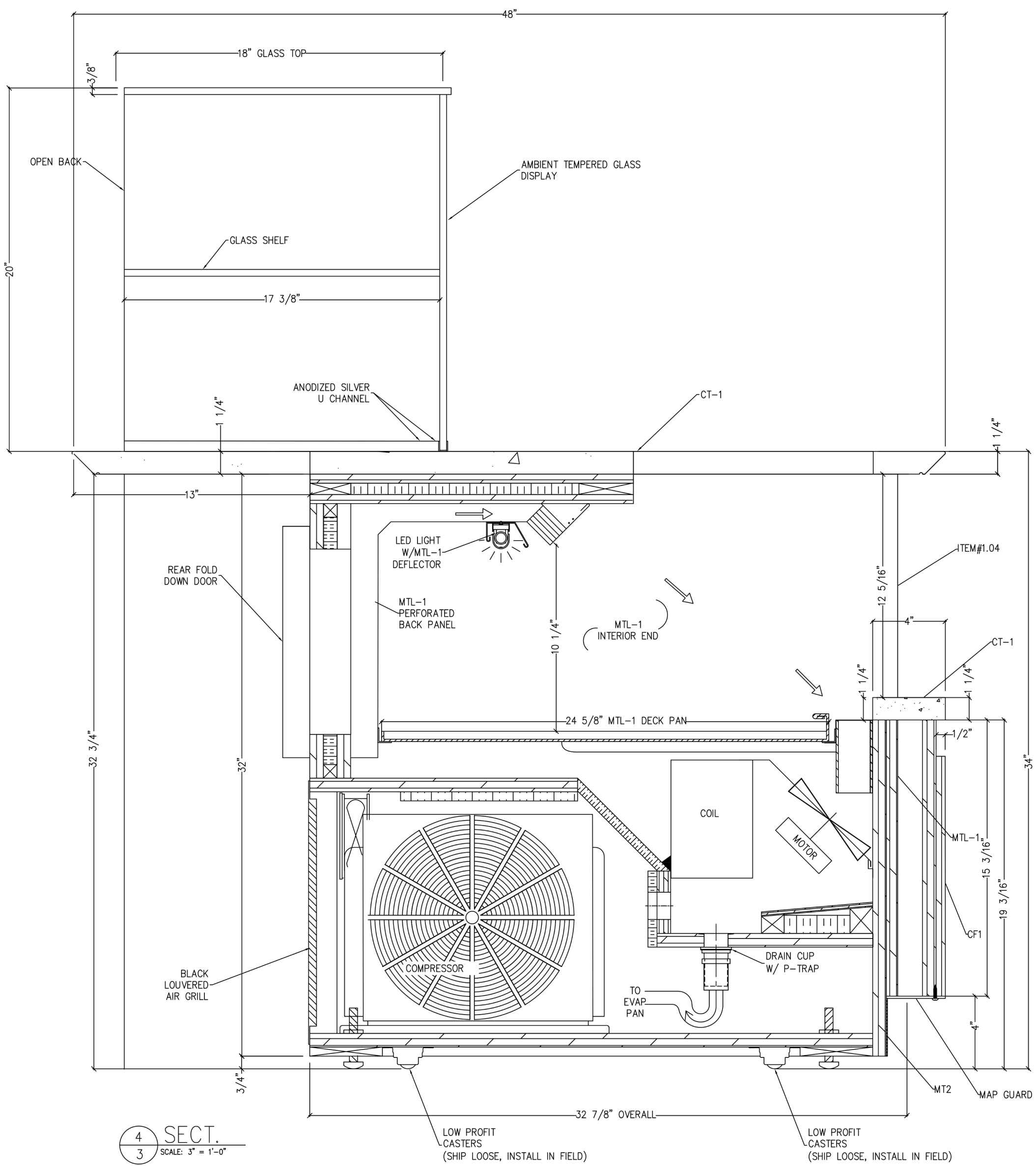
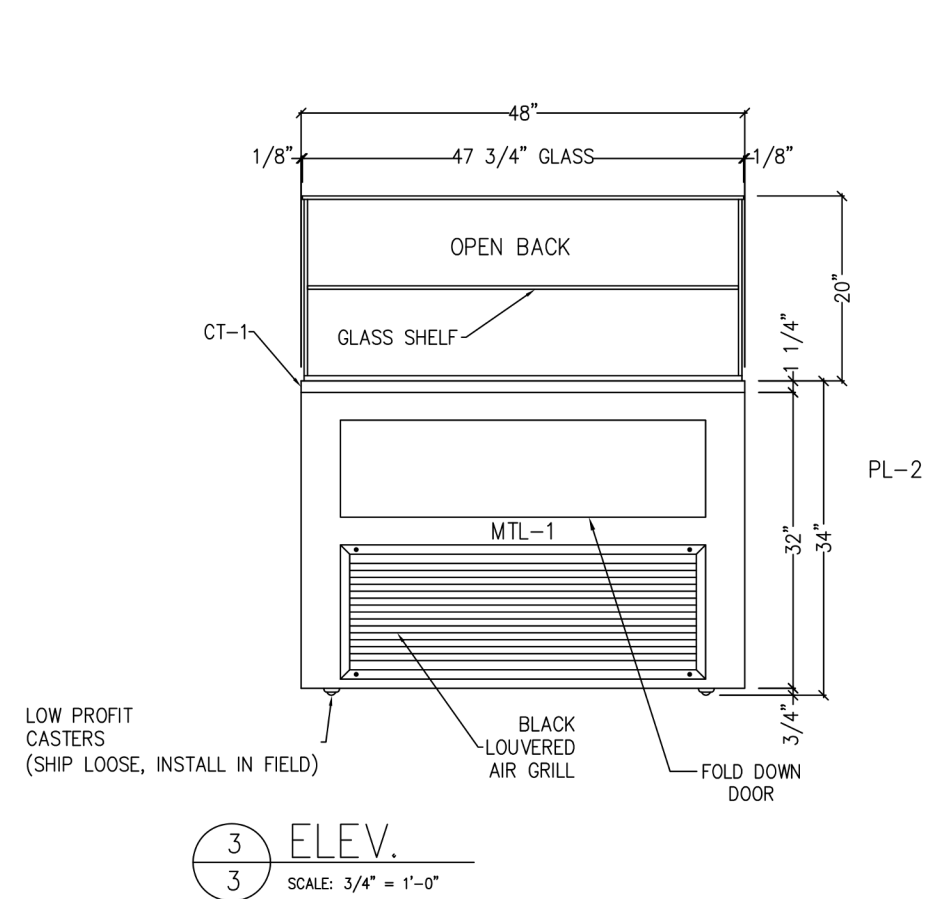
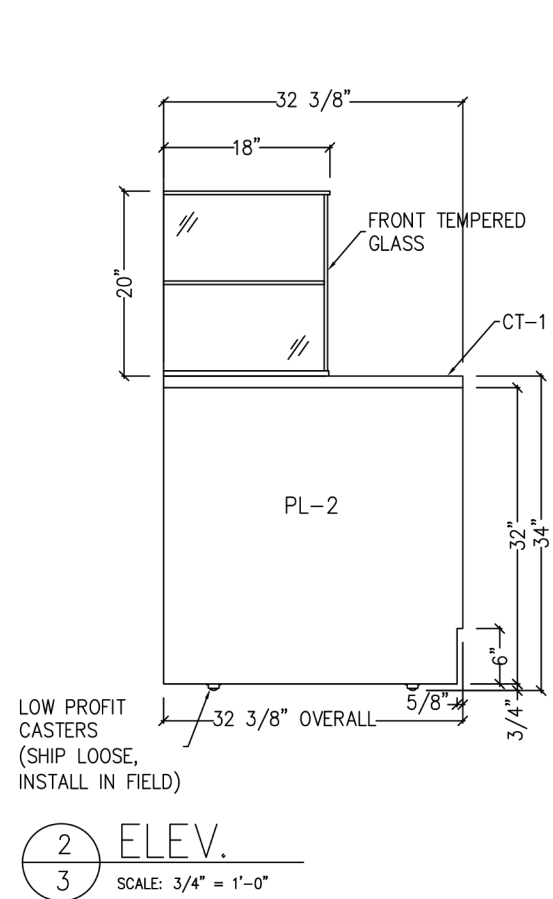
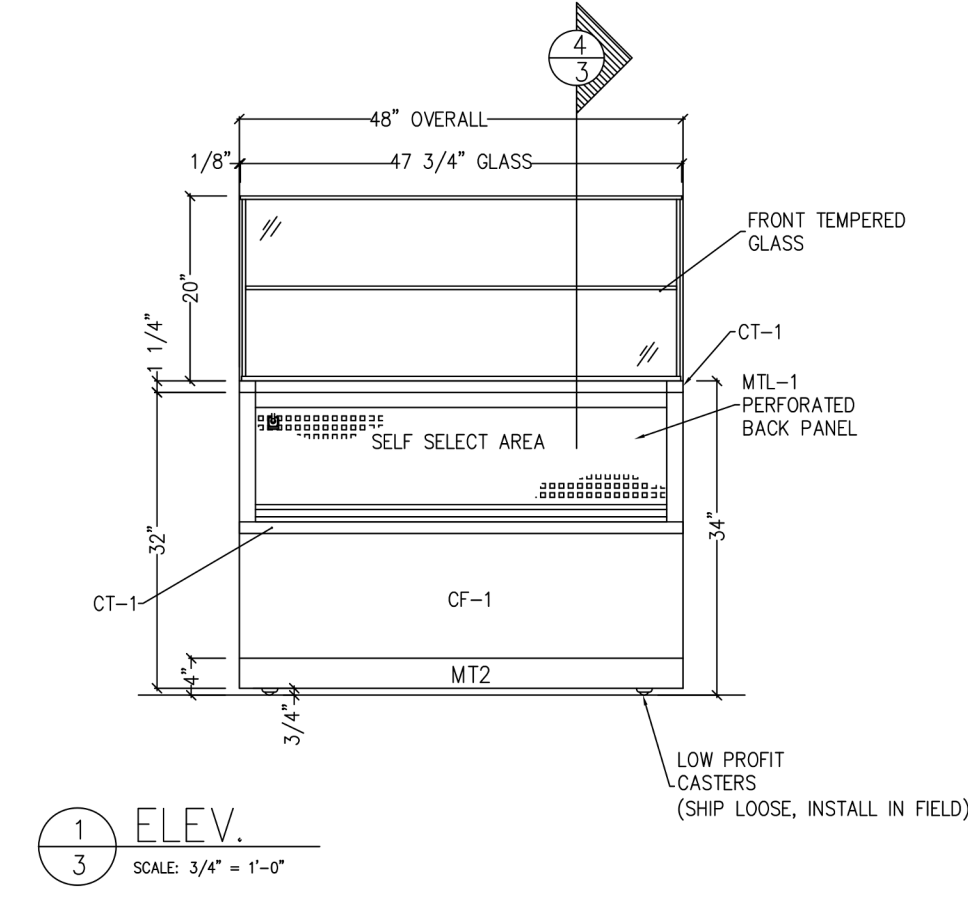
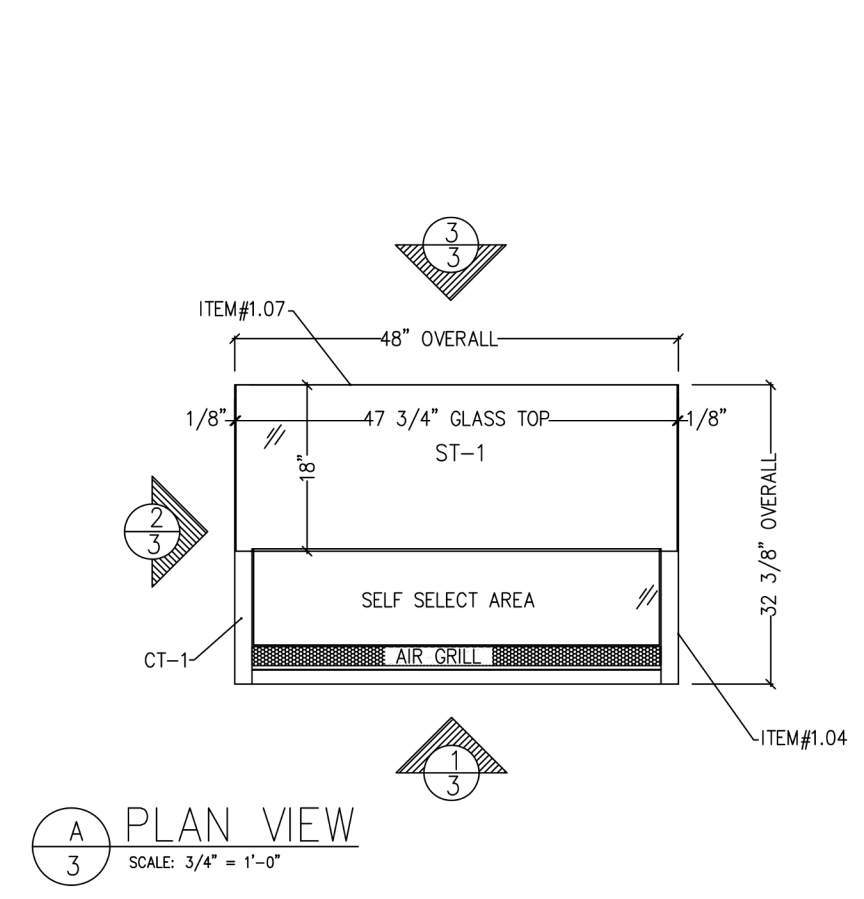
FOR CONSTRUCTION



DATE	REVISION
07/18/24	FINAL CONSTRUCTION DOCUMENTS

Smithsonian Institution
 Smithsonian Facilities
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	NMMA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	FOODSERVICE COUNTER DRAWINGS
WORKING STAFF	JLP JLP LKL
SHEET NO.	QF 306
101 of 103	



NOTES:

- PLEASE VERIFY EXTERIOR "CPL-1" FINISH TO BE:
- PLEASE VERIFY GRAIN DIRECTION TO BE:

ELECTRICAL EQUIPMENT REQUIREMENTS
 1ST ELECTRICAL CIRCUIT

DESCRIPTION	AMPS	VOLTS
COMPRESSOR	11.53	115V
TLS LIGHTS	0.18	115V
FANS	1.36	115V
ANTI SWEAT	0.50	115V
TOTAL	13.57	@115V

NEMA 5 - 20P

ELECTRICAL EQUIPMENT REQUIREMENTS
 2ND ELECTRICAL CIRCUIT

DESCRIPTION	AMPS	VOLTS
EVAP PAN	6.70	115V
AXIAL FAN	0.18	115V
TOTAL	6.88	@115V

NEMA 5 - 15P

IMPORTANT REFRIGERATED DISPLAY CASE NOTE

CASES ARE DESIGNED FOR USE WHERE TEMPERATURE AND HUMIDITY DO NOT EXCEED 75 DEGREE FAH. AND 50% RH. CHANGES IN THESE CONDITIONS WILL CAUSE CONDENSATION TO FORM ON THE UNITS, POTENTIALLY CAUSING DAMAGE TO THE STRUCTURE AND/OR FINISHED PRODUCT.

CASES ARE DESIGNED TO KEEP PRE CHILLED PRODUCT COLD. ADDING WARM PRODUCT TO CASES WILL IMPACT PERFORMANCE AND CAUSE CASES TO RUN LONGER, HARDER AND CAUSE COIL FREEZE UPS.

LOCATIONS OF CASES TO DIRECT SUNLIGHT, RAPID AIR CURRENT CHANGES, EXTREME TEMPERATURE CHANGES, CEILING FANS, HVAC VENT, OVENS, ETC. WILL ALSO IMPACT CASE PERFORMANCE AND POSSIBLE CONDENSATION.

ANY OF THE ABOVE ISSUES CAUSED BY ADVERSE ENVIRONMENTAL CONDITIONS WILL VOID THE WARRANTY

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FINISH

CF-1: HALF ROUND TAMBOUR W/ DRIP EDGE
 PL-2: RPI STANDARD BLACK LAMINATE
 MTL-1: 304 STAINLESS STEEL #4 FINISH
 CT-1: 3CM CORIAN QUARTZ IN BEIGE ROYALE
 MT2: COPPER, ASTM B370
 WD-1: SOLID WOOD (WALNUT)
 CT-2: SOLID SURFACE COUNTERTOP

MODIFICATIONS / OPTIONS

QTY.	DESCRIPTION

REVISIONS

NO.	DESCRIPTION	BY	DATE
RT	REVISED	JL	07/17/2024

PROJECT TITLE:

NMAA - SACKLER GALLERY

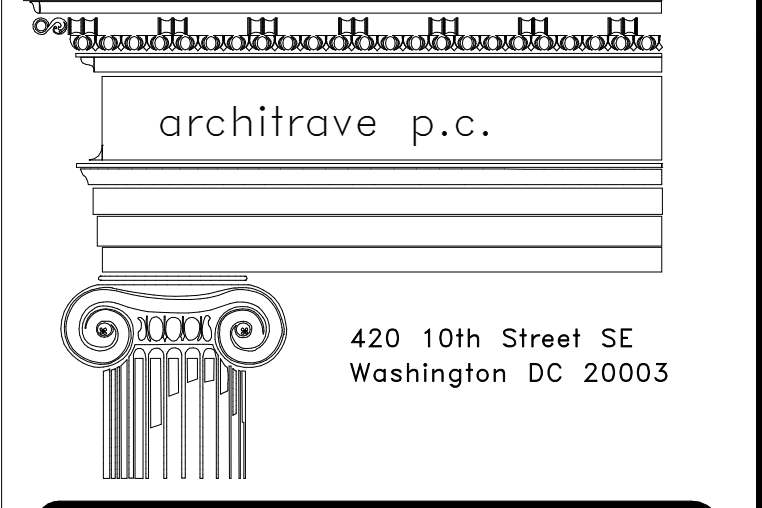
DRAWING TITLE:

ITEM# 1.04 & 1.07
 UNDER COUNTER GRAB & GO
 MODEL-SCCB48R-CD-UC (M)
 (1) REQ'D (SELF SELECT)

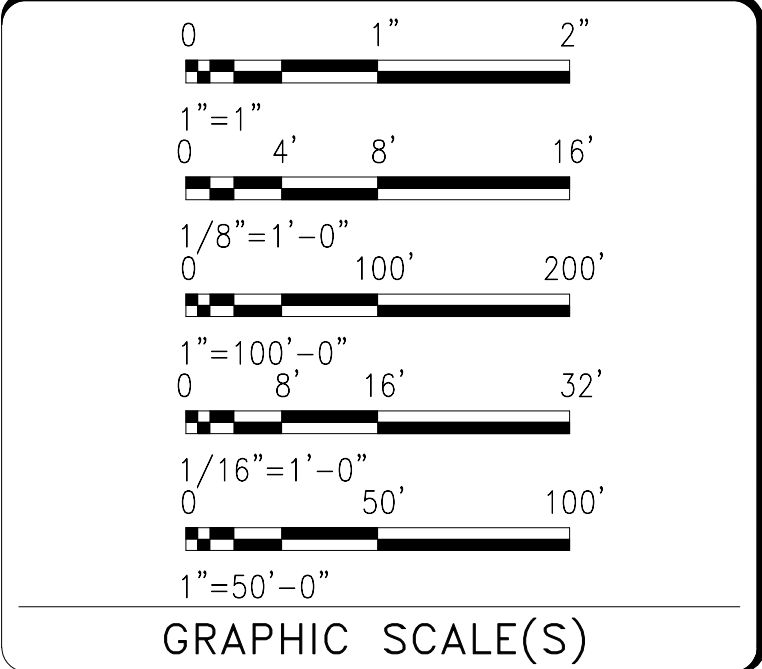
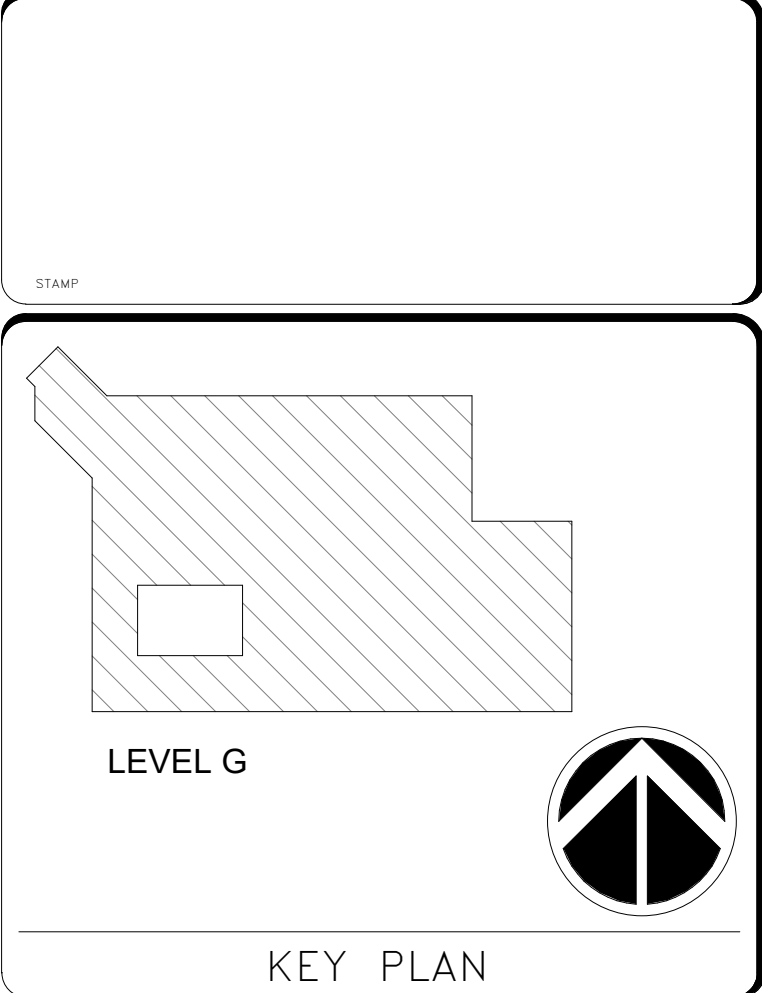
RPI INDUSTRIES, INC.
 220 Route 70
 Suite A
 Medford, NJ 08055
 609-714-2330 (PHONE)
 609-714-2331 (FAX)
 website: rpiindustries.com



JOB NO. 32098 SHEET NO. 3
 DATE: 05/21/2024
 DRAWN BY: ML
 SCALE: AS NOTED



FOR CONSTRUCTION



DATE: 07/18/24

SUBMISSION: FINAL CONSTRUCTION DOCUMENTS

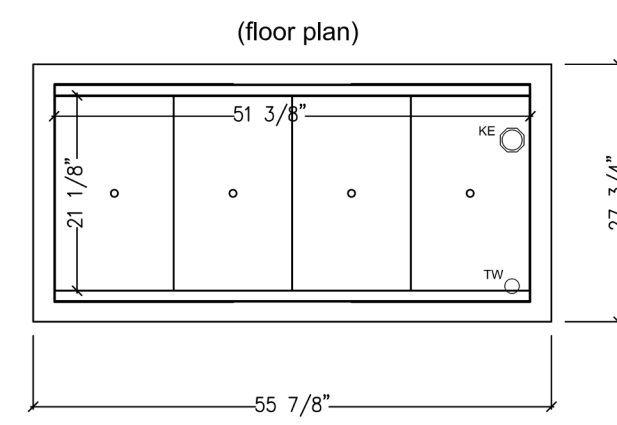


GRIDING NAME:	NMMA
ADDRESS:	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE:	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER:	2209110
A/E PROJECT NUMBER:	1401.54
DRAWING TITLE:	FOODSERVICE COUNTER DRAWINGS
WORKING STAFF:	JLP JLP LKL

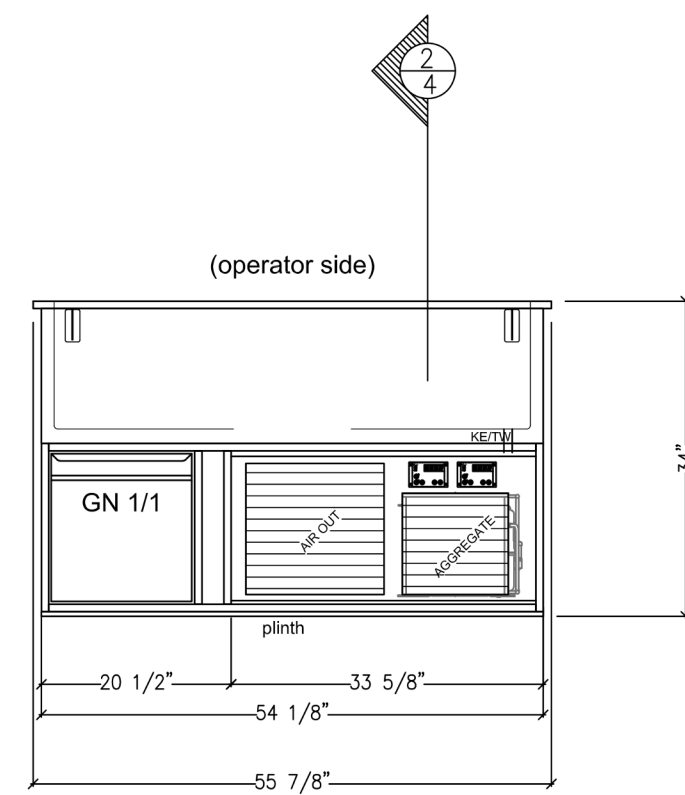
SHEET NO. 102 of 103

QF 307

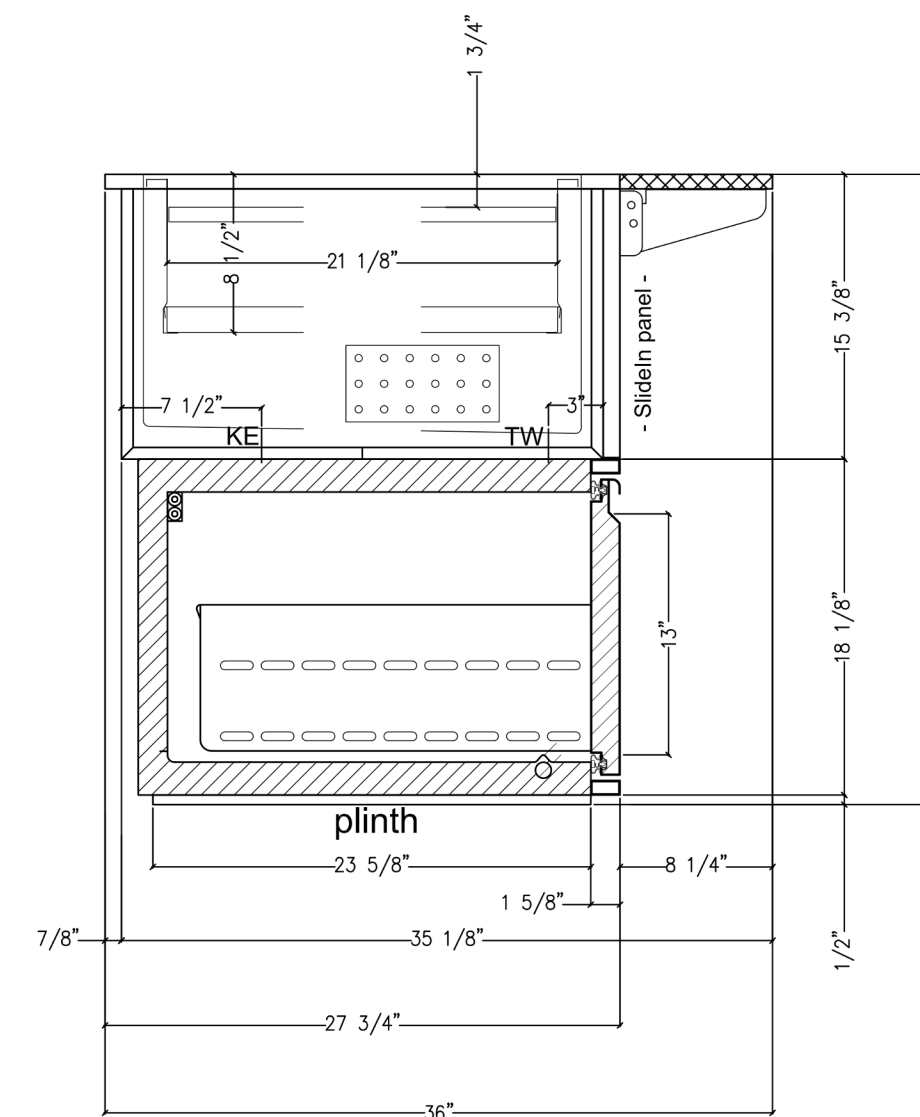
7/17/2024 5:26:08 PM
OF 308 BY Approver 10.23.23 FINAL CONSTRUCTION DOCUMENTS



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



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



2
4 SECT.
SCALE: 1 1/2" = 1'-0"

- * VIAP with refrigerated counter underneath
- * base with drawer
- * base with plinth
- * flipable stainless steel cutting board
- mounted on s/s slide-in panel
- * water drain on site required

PER CASE	
* Refrigerant: R448A	
* Voltage: 115 V / 1 ph / 60 cycles	* Voltage: 208-230V / 60 cycles
* Power consumption: 350 Watt / 3.1 amps	* Power consumption: 5 amps
* Refrigeration power: 2,048 + 580 Btu/h by EVAP 14 °F	* Plug: L14-20P
REF.: NMAA SACKLER GALLERY	

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FINISH	
CF-1: HALF ROUND TAMBOUR W/ DRIP EDGE	
FL-2: RPI STANDARD BLACK LAMINATE	
MT-1: 304 STAINLESS STEEL #4 FINISH	
CT-1: 3CM CORIAN QUARTZ IN BEIGE ROYALE	
MT-2: COPPER #32M B370	
WD-1: SOLID WOOD (WALNUT)	
CT-2: SOLID SURFACE COUNTERTOP	

HARDWARE	
DESCRIPTION	

MODIFICATION & OPTION	
DESCRIPTION	

MT DRAIN LINE IN THE BACK

REVISIONS			
NO.	DESCRIPTION	BY	DATE
01	UPDATE UNITS	JL	07/12/2024

PROJECT TITLE:
NMAA - SACKLER GALLERY

DRAWING TITLE:
**ITEM # 1.11
VIENNA MODEL
VIAP4-0-R-SC PRO (M)
WITH REFRIGERATED COUNTER
(1) REQ'D**

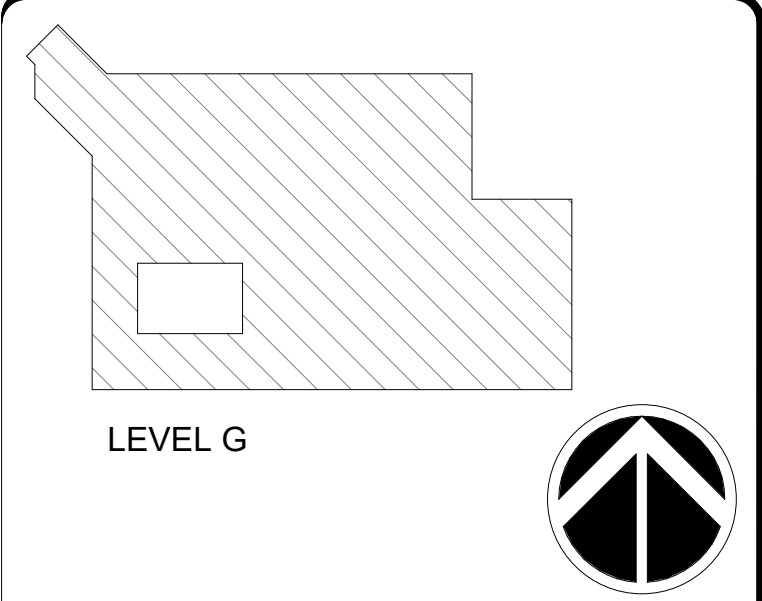
RPI INDUSTRIES, INC.
220 Route 70
Suite A
Medford, NJ 08055
609-714-2330 (PHONE)
609-714-2331 (FAX)
website: rpiindustries.com



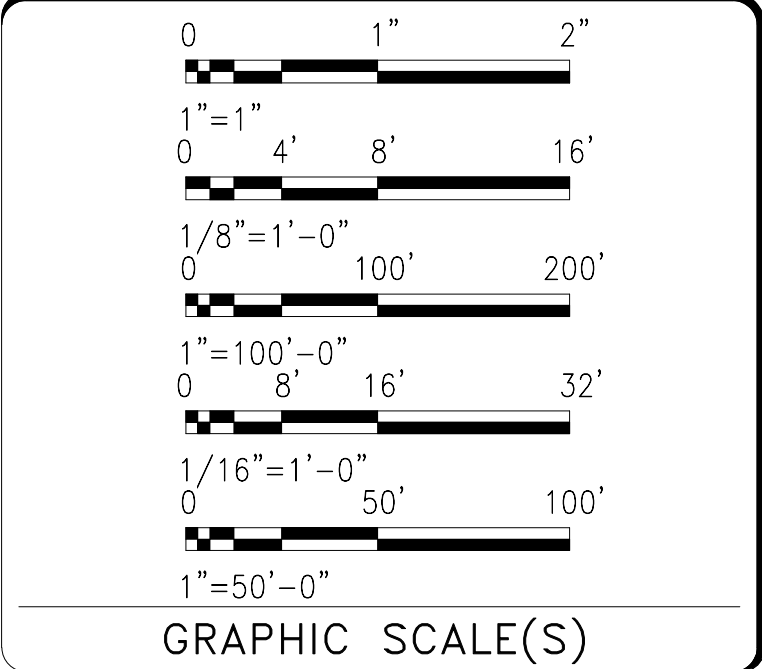
JOB NO. 32098	SHEET NO. 4
DATE: 05/23/2024	
DRAWN BY: ML	
SCALE: AS NOTED	SHEET 4 of 1

architrave p.c.
420 10th Street SE
Washington DC 20003

FOR CONSTRUCTION



KEY PLAN



GRAPHIC SCALE(S)

DATE: 07/18/24	REVISION # DATE	DESCRIPTION

07/18/24 FINAL CONSTRUCTION DOCUMENTS

Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	NMMA
ADDRESS	12th and Independence Avenue, SW, Washington DC
PROJECT TITLE	CAFE AT SACKLER PAVILION
SF PROJECT NUMBER	2209110
A/E PROJECT NUMBER	1401.54
DRAWING TITLE	FOODSERVICE COUNTER DRAWINGS
WORKING STAFF	JLP JLP LKL
DESIGNED BY	JLP
DRAWN BY	JLP
CHECKED BY	LKL
SHEET NO. 103 of 103	QF 308