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BID SET

Issued: August 10, 2026

THE MARYLAND ZOO IN BALTIMORE
ROUND STAND CAFE

The Maryland Zoo in Baltimore

1876 Mansion House Drive
Baltimore, MD 21217

Carroll Engineering, Inc.

Civil Engineers

215 Schilling Circle, STE 102
Hunt Valley, MD 21031
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Buell Kratzer Powell, P.C.

Architect

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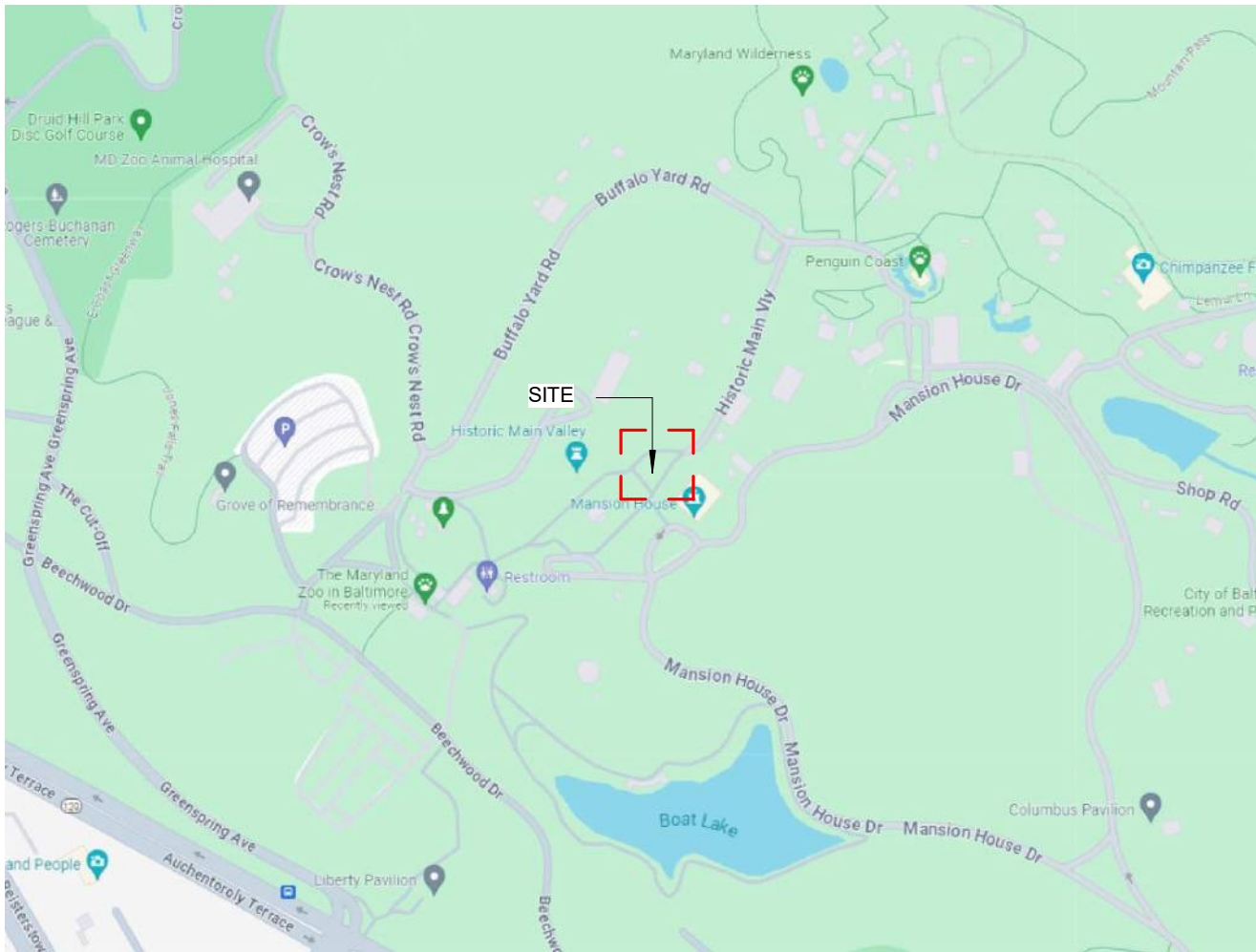
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Kovacs, Whitney, & Associates

MEP Engineer

190 West Ostend St, STE 300
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APPLICABLE CODES

2019 Maryland Building Performance Standards;
2018 International Building Code, MD Edition;
2021 International Existing Building Code;
2017 National Electrical Code (NFPA 70);
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2018 International Energy Conservation Code, MD Edition;
2018 International Green Construction Code;
2020 Baltimore City Building, Fire & Related Codes;
2012 Maryland Accessibility Code;
2010 ADA Standards for Accessible Design by Department of Justice;
ICC/ANSI A117.1-2009;
Baltimore City Building, Fire, and Related Codes (BCBFR 2024 Edition)

CODES, REGULATIONS & ORDINANCES

DRAWING SHEET LIST		
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GENERAL		
G001	COVER SHEET	•
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C101	EXISTING CONDITIONS UTILITY PLAN	•
C200	DEMOLITION PLAN	•
C300	PROPOSED CONDITIONS PLAN	•
C310	SITE DETAILS	•
SITE		
L100	PROPOSED SITE PLAN	•
DEMOLITION		
D101	DEMO FLOOR PLAN	•
D102	DEMO RCP	•
D201	DEMO SECTION	•
MD101	FLOOR PLAN - MECHANICAL PLUMBING - DEMOLITION	•
ED101	SITE PLAN AND MANSION HOUSE PART PLAN - ELECTRICAL DEMOLITION	•
ED102	FLOOR PLAN - ELECTRICAL - DEMOLITION	•
ARCHITECTURE		
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A002	WALL TYPES	•
A003	STOREFRONT AND SERVICE WINDOW	•
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A101	FLOOR PLAN - DIMENSIONED LAYOUT	•
A111	RCP	•
A121	ROOF PLAN	•
A122	CUPOLA PLAN	•
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DRAWING SHEET LIST

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SHEET NO.	SHEET NAME	BID SET

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A601	CONSTRUCTION DETAILS	•
A901	EQUIPMENT PLAN	•
PLUMBING		
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P101	FLOOR PLAN - UNDERGROUND PLUMBING - NEW WORK	•
P102	FLOOR PLAN - ABOVE GROUND PLUMBING - NEW WORK	•
P501	PLUMBING DETAILS	•
P601	SANITARY AND DOMESTIC WATER RISER DIAGRAMS	•
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M101	FLOOR PLAN - HVAC - NEW WORK	•
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E101	SITE PLAN	•
E102	FLOOR PLAN - LIGHTING - NEW WORK	•
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E104	FLOOR PLAN - FEEDER ROUTING - NEW WORK	•
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E601	PANEL SCHEDULES	•
E701	ELECTRICAL RISER DIAGRAM	•



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ROUND STAND CAFE
THE MARYLAND ZOO
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CHECKED BY	JP
SUBMISSION	DATE
BID SET	08/10/2026
REVISION	DATE

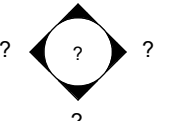
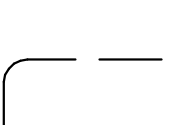
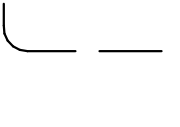
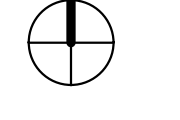
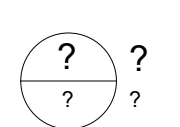
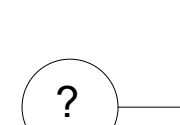
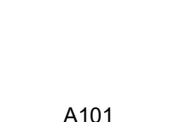
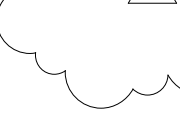
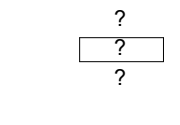
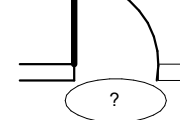
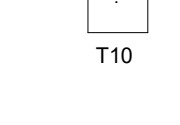
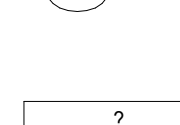
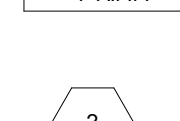
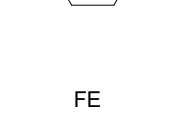
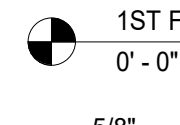
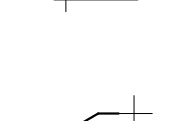
DRAWING TITLE:
COVER SHEET

DRAWING NO:
G001

ABBREVIATIONS

ANGLE	E	EAST	ID	INSIDE DIAMETER
@	AT	EACH	INCH	INCH
AB	ABOVE	EF	INCLUDE	INCLUDE
ABV	ANCHOR BOLT	EIFS	INFO	INFORMATION
AC	AIR CONDITIONING	EJ	INST	INSTALLATION
ACP	ADJUSTABLE	EL	INSUL	INSULATION
ACT	ADJUSTABLE CEILING PANEL	ELEC	INT	INTERIOR
ADJ	ADJUSTABLE	ELEV	INV	INVERT
AFF	ABOVE FINISHED FLOOR	EMER	JANITR	JANITOR
AHU	AIR HANDLING UNIT	EPBD	JB	JUNCTION BOX
ALT	ALTERNATE	EPS	JCT	JUNCTION
ALUM	ALUMINUM	EPX	JST	JOIST
AP	ACCESS PANEL	EQ	JT	JT
APC	ARCH. PRECAST CONCRETE	EQUIP	KIT	KITCHEN
APPR	APPROXIMATE	EST	K-O	KNOCK-OUT
AARCH	ARCHITECT(URAL)	EW	LAB	LABORATORY
ASB	ASBESTOS	EWIC	LAM	LAMINATE
ATTEN	ATTENUATION	EXH	LAV	LAVATORY
AUTO	AUTOMATIC	EXIST	LBS	POUNDS
AVG	AVERAGE	EXP	LF	LINEAR FEET (FOOT)
AWP	ACCOUSTICAL WALL PANEL	EXP C	LH	LEFT HAND
BC	BOTTOM OF CURB	EXT	LOCKR	LOCKER
BBD	BULLETPROOF BOARD	FB	LT	LIGHT
BD	BOARD	FD	LVR	LOUVER
BLDC	BLOCK	FE	LW	LIGHTWEIGHT
BLK	BLOCKING	FF	M	METER(S)
BLKG	BLOCKING	FFE	MACH	MACHINE
BM	BENCH MARK	FF	MAS	MASONRY
BO	BOTTOM OF	FG	MATL	MATERIAL
BOT	BOTTOM OF CURB	FH	MAX	MAXIMUM
BRG	BEARING	FI	MB	MARKERBOARD
BRK	BRICK	FHC	MECH	MECHANICAL
BSMT	BASEMENT	FIN	MED	MEDIUM
BTWN	BETWEEN	FIXT	MEMB	MEMBRANE
CAB	CARPET	FLSHG	MANUF	MANUFACTURER
CBD	CHALKBOARD	FLR	MH	MANHOLE
CBV	CLOSED CIRCUIT TELEVISION	FLUR	MIN	MINIMUM
CF	CLOSED CIRC PER MINUTE	FO	MIR	MIRROR
CG	CAGING	FOC	MISC	MISCELLANEOUS
CIP	CAST IRON	FOM	MLDG	MOLDING
CJ	CAST-IN-PLACE CONCRETE	FR	MO	MASONRY OPENING
CL	CONTROL JOINT	FRMG	MR	MAP RAIL
CL	CENTERLINE	FRP	MT	MOUNT
CLG	CEILING	FRT	MTD/ MNTD	MOUNTED
CLOS	CLOSET	FT	MTS	MOUNTING
CM	CLEAR	FTG	MTL	METAL
CMU	CENTIMETER	FURN	MUL	MULLION
CNTR	COUNTER	FURR	MWP	MEMBRANE WATERPROOFING
COL	CLEAN OUT	FVC	N	NORTH
CONC	CONCRETE	G	NIC	NOT IN CONTRACT
CONST	CONSTRUCTION	GAL	NO	NUMBER
CONTR	CONTRACT(OR)	GALV	NOM	NOMINAL
CORR	CORRIDOR	GALVZ	NRC	NOISE REDUCTION COEFFICIENT
CR	COURSE	GAH	NTS	NOT TO SCALE
CRS	CARPET TILES	GB	OC	ON CENTER
CPT	COUNTERSINK	GC	OD	OUTSIDE DIAMETER
CTSK	CERAMIC TILE	GCMU	OH	OVERHEAD
CU	CABINET UNIT HEATER	GEN	OPNG	OPENING
CUYD	CUBIC YARD	GFCI	OPP	OPPOSITE
CW	COLD WATER	GFR	PRKG	PARKING
DBL	DOUBLE	GL	PC	PRECAST
DEFT	DEMOLISH, DEMOLITION	GLM	PERF	PERFORATE(D)
DEPT	DEPARTMENT	GP	PERM	PERIMETER
DEPR	DEPRINKING FOUNTAIN	GS	PIP	PIURED IN PLACE
DIAG	DIAGONAL	GSU	PL	PROPERTY LINE
DIM	DIMETER	GYP	PL	PLATE
DIV	DIVISION	HB	PB	PLASTIC LAMINATE
DMT	DEMOUNTABLE	HBC	PLAS	PLASTER
DN	DOWN	HCB	PLUMB	PLUMBING
DR	DOOR	HCC	PLYWOD	PLYWOOD
DRN	DRAIN TILE	HDC	PNE	PANEL
DTL	DETAIL	HDPE	PNT	POLYETHYLENE
DW	DRYWALL	HDR	PAIR	PAIR
DWR	DRAWING	HDNR	PREFAB	PREFABRICATE(D)
DWR	DRAWER	HDWD	PREFIN	PREFINISHED
		HDWR	PREP	PREPARED
		HGT	PROJ	PROJECT
		HM	PSF	POUNDS PER SQUARE FOOT
		HORIZ	PSI	POUNDS PER SQUARE INCH
		HP	PT	PRESSURE TREATED
		HPC	PTN	PARTITION
		HS	PVC	POLYVINYL CHLORIDE
		HST	PWMT	PAVEMENT
		HTG		
		HT		
		HTR		
		HVAC		
		HOT WATER		

SYMBOLS

SECTION		
EXTERIOR ELEVATION		
INTERIOR ELEVATION		
ENLARGEMENT		
NORTH ARROW		
DRAWING IDENTIFICATION		
BUILDING GRID		
MATCH LINE		
REVISION NUMBER		
ROOM NAME AND NUMBER		
ARCHITECTURAL DOOR NUMBER		
CAGING / KEEPER DOOR NUMBER		
CAGING / TRANSFER DOOR NUMBER		
CAGING / TRANSFER DOOR OPERATOR		
WALL TYPE		
CEILING HEIGHT ABOVE FINISHED FLOOR		
WINDOW NUMBER		
FIRE EXTINGUISHER		
ELEVATION MARK		
DIMENSION STRING		
HOSE BIBB/ MIXING STATION		
SPOT ELEVATION		



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EAL:



JOSEPH H. POWELL, AIA
MD LICENSE: 14268

DATE: August 10, 2026	
PROJECT NO: 2023-10.08	
DRAWN BY	Author
CHECKED BY	Checker
SUBMISSION	DATE
LD SET	08/10/2026

REVISION	DATE
1 PERMIT SET REV	02/13/2026

DRAWING TITLE:
ABBREVIATIONS AND
SYMBOLS

DRAWING NO:
G002

THE MARYLAND ZOO IN BALTIMORE
ROUND STAND

Prepared by:
BKP Architects, 1525 Locust Street, 5th Floor, Philadelphia, PA 19102
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BUILDING DATA

A. Building Description

The Round Stand is a one-story, radial structure with exterior walls that consist of insulated fiber cement boards mounted on steel studs. The primary function of the building is to serve as a food service facility for zoo visitors.

B. Occupancy Classification

Occupancy: B - Food processing establishment/ commercial kitchen not more than 2500 sq. ft.

C. Construction Type

Construction Type: Type VB

D. Fire Protection & Egress

Automatic fire sprinklers not provided
Total Building Exits 1

E. Building Dimensions

Total Building Area 529 SF
Average Building Height 22' - 8"

F. OCCUPANT LOAD

Total Occupancy Load 3

LIMITS & REQUIREMENTS

G. Building Limits (IBC 503)

Area 5,500 SF
*Per 506.2.1 The allowable area of a single-occupancy building with no more than one story above grade plane shall be determined in accordance with Equation 5-1:
 $A_a = \{A_i + [NS \times l_i]\} = \{5,500 \text{ SF} + [5,500 \text{ SF} \times 0]\} = 5,500 \text{ SF}$
Height 40' - 0" (non-sprinklered)
Stories 1 (non-sprinklered)

H. Lot Limits (Code of Ordinances Sec. 250-404, Middle Township, NJ)

Zoning classification R (Residential)

C.3 Conditional Use; Sec. 250-511, Public Purpose Uses
In all districts, public uses such as schools and government buildings and similar uses shall adhere to the most-restrictive bulk regulations for the zone.

I. Occupant Fire Protection Requirements (IBC 903)

Automatic fire sprinklers system not required

J. Construction Type Fire Resistive Requirements (IBC 601)

Structural Framing 0 hr
Bearing Walls (int.) 0 hr
Bearing Walls (ext.) 0 hr
Nonbearing Walls (int.) 0 hr
Nonbearing Walls (ext.) 0 hr
Floor Construction 0 hr
Roof Construction 0 hr

K. Exterior Wall and Opening Protection (IBC 602, 705.8)

Fire Separation Distance > 30 ft
Category ≥ 30 ft
Required rating walls (ext.) 0 hr
Allowable area for unprotected non-sprinkled openings No Limit
Allowable area for unprotected sprinkled openings Not Required
Allowable area for protected openings Not Required

IBC 705.8.1

Note i: "Buildings whose exterior bearing walls, exterior nonbearing walls, and exterior structural frame are not required to be fire-resistance rated by table 601 or 602 shall be permitted to have unlimited protected openings."

L. Means of Egress

IBC 1006.3.3 (2)
Exit access travel distance shall not exceed 75 ft
IBC 1006.3.2
Two exits required for occupant load of 1-500 per story.
Exits Required 1
1006.3.3 Exception: "A single exit or access to a single exit shall be permitted from any story or occupied roof where one of the following conditions exists:
1. The occupant load, number of dwelling units and common path of egress travel distance do not exceed the values in Table 1006.3.3(1) or 1006.3.3(2).
2. Rooms, areas and spaces complying with Section 1006.2.1 with exits that discharge directly to the exterior at the level of exit discharge, are permitted to have one exit or access to a single exit."
IBC 1010.1.1
Min. required width of egress doors 32.0 in
IBC 1020.1, 1020.2
Exit corridor fire resistance rating for occupancy >30 without sprinkler 1 hr
Max. dead-end corridor length 20.0 ft
Min. corridor width serving occupancy >50 36.0 in

M. ACCESSIBILITY (IBC 1103.1)

IBC 1103.1

Sites, buildings, structures, facilities, elements and spaces, temporary or permanent, shall be accessible to individuals with disabilities.

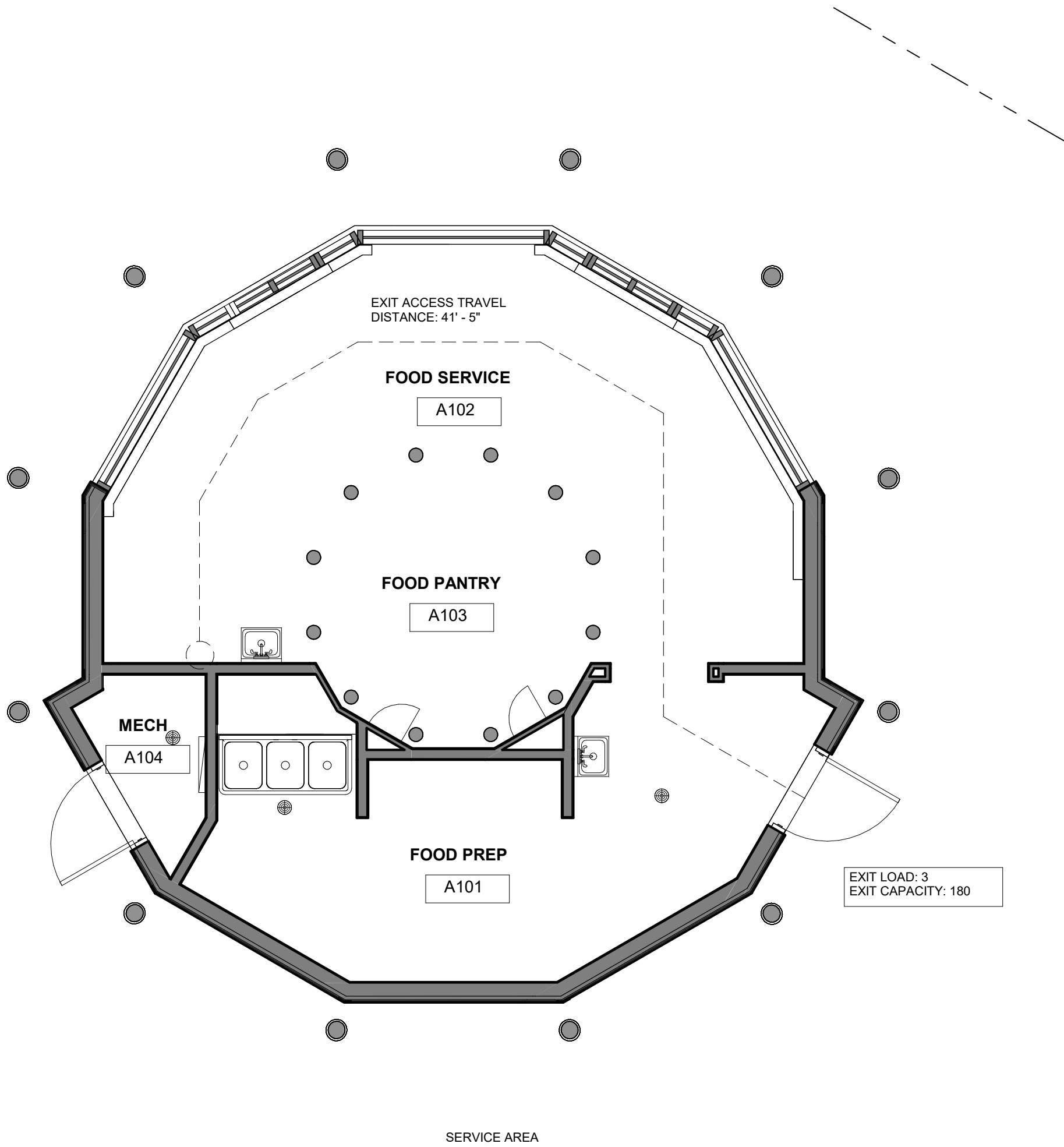
N. PLUMBING FIXTURES (IBC 2902.3.3)

Not required. Path of travel to existing toilet facilities is located within 500 feet.

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NUMBER	ROOM NAME	AREA	OCCUPANCY	OCCUPANT LOAD FACTOR	OCCUPANTS
A101	FOOD PREP	166 SF	KITCHENS/COMMERCIAL	200	0.8
A102	FOOD SERVICE	239 SF	KITCHENS/COMMERCIAL	200	1.2
A103	FOOD PANTRY	88 SF	KITCHENS/COMMERCIAL	200	0.4
A104	MECH	22 SF	MECH/ELEC	300	0.1
Grand total		514 SF			2.5



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BID SET	08/10/2026
REVISION	DATE

DRAWING TITLE:

CODE REVIEW

DRAWING NO:

G003



LEGEND

	EXISTING BUILDING
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING CURB
	EXISTING PAVEMENT
	EXISTING ASPHALT PAVING
	EXISTING CONCRETE PAVING
	EXISTING FENCELINE
	EXISTING SIGN
	EXISTING ELECTRIC HANDBOX
	EXISTING ELECTRIC MANHOLE
	EXISTING UNDERGROUND ELECTRIC
	EXISTING COMMUNICATION
	EXISTING GAS LINE
	EXISTING SANITARY LINE
	EXISTING SANITARY MANHOLE
	EXISTING STORMDRAIN LINE
	EXISTING STORMDRAIN INLET
	EXISTING STORMDRAIN MANHOLE
	EXISTING TELEPHONE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING WATER LINE
	EXISTING WATER METER
	EXISTING WATER MANHOLE
	EXISTING EVERGREEN TREE

OWNER / DEVELOPER / APPLICANT:
MARYLAND ZOO IN BALTIMORE
1876 MANSION HOUSE DRIVE
BALTIMORE MD 21217
CONTACT: ADAM WYATT
PHONE: 443-552-5326

LEGEND

	EXISTING BUILDING
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING CURB
	EXISTING PAVEMENT
	EXISTING ASPHALT PAVING
	EXISTING CONCRETE PAVING
	EXISTING FENCELINE
	EXISTING SIGN
	EXISTING ELECTRIC HANDBOX
	EXISTING ELECTRIC MANHOLE
	EXISTING UNDERGROUND ELECTRIC
	EXISTING COMMUNICATION
	EXISTING GAS LINE
	EXISTING SANITARY LINE
	EXISTING SANITARY MANHOLE
	EXISTING STORMDRAIN LINE
	EXISTING STORMDRAIN INLET
	EXISTING STORMDRAIN MANHOLE
	EXISTING TELEPHONE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING WATER LINE
	EXISTING WATER METER
	EXISTING WATER MANHOLE
	EXISTING EVERGREEN TREE

- GENERAL NOTES:**
1. FIELD RUN TOPOGRAPHIC SURVEY WAS PERFORMED BY CLSI IN FEBRUARY 2024. SUPPLEMENTAL INFORMATION HAS BEEN ADDED BASED ON AVAILABLE RECORD DOCUMENTS AND BALTIMORE CITY GIS DATED 2017.
 2. EXISTING UNDERGROUND UTILITIES DESIGNATED ON THE PLANS ARE BASED ON CURRENTLY AVAILABLE INFORMATION AND ARE SHOWN FOR REFERENCE ONLY. THE OWNER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF SAID INFORMATION BEYOND THE DESIGNATION INDICATED. THE QUALITY LEVEL DESIGNATED IS IN ACCORDANCE WITH ASCE "STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA" (QI/ASCE 38-02). THE CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH THOSE STANDARDS PRIOR TO ANY RELIANCE ON THE INFORMATION SHOWN ON THESE PLANS. PRIOR TO ANY EXCAVATION, IN THE ABSENCE OF QUALITY LEVEL A OR B DESIGNATION, THE CONTRACTOR SHALL VERIFY, TO HIS OWN SATISFACTION, THE EXISTENCE, DEPTH, SIZE, MATERIAL, AND LOCATION OF ALL UNDERGROUND UTILITIES, AND DETERMINE WHETHER THOSE UTILITIES ARE LIVE. ANY EARTHWORK IN LOCATIONS WHERE UTILITIES ARE POSSIBLE SHALL BE DONE WITH EXTREME CAUTION. THE GIVING OF INFORMATION ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO SUPPORT AND PROTECT ALL DESIGNATED OR UNDESIGNATED EXISTING UTILITIES AND APPURTENANCES. SHOULD ANY EXISTING UTILITY BE DAMAGED BY THE CONTRACTOR, THE CONTRACTOR SHALL REPAIR THE DAMAGE CAUSED TO THE UTILITY OWNER'S SATISFACTION, AT THE CONTRACTOR'S EXPENSE.
 3. LIVE UNDERGROUND UTILITIES MAY EXIST WITHIN THE WORK AREA. CONTRACTOR SHALL USE EXTREME CAUTION AND SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
 4. INFORMATION SHOWN ON THIS DRAWING HAS BEEN PROVIDED AS A GUIDE TO ASSIST THE CONTRACTOR IN ESTABLISHING THE LOCATIONS OF PROPOSED CONSTRUCTION WITH RESPECT TO EXISTING SITE IMPROVEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL CONSTRUCTION SURVEY STAKEOUT REQUIRED AND TO CONFIRM ALL INFORMATION SHOWN HEREON.

UTILITY DESIGNATION DESCRIPTION:

QUALITY LEVEL D (QL-D):
INCLUDES UTILITIES DESIGNATED THROUGH RECORD DOCUMENTS. THIS DATA COULD BE DIGITAL RECORDS, PAPER RECORDS, OR GIS DATA. THE AVAILABLE DATA COULD BE LIMITED AND NOT PRODUCE A COMPLETE PICTURE OF WHAT IS ONSITE. THE COMPLETENESS AND ACCURACY OF THE INFORMATION COULD BE COMPROMISED. HOWEVER, THE DATA COLLECTED IS SHOWN AND DESIGNATED SO AS TO REFLECT THE POTENTIAL FOR THE EXISTENCE OF UTILITIES.

QUALITY LEVEL C (QL-C):
INCLUDES UTILITIES DESIGNATED THROUGH THE PROCESS OF SURVEYING THE VISIBLE UTILITY SURFACE FEATURES. THIS DATA IS COMPILED WITH THE QUALITY LEVEL D DATA TO PROVIDE AN INCREASED, NOT ABSOLUTE, LEVEL OF HORIZONTAL POSITION ACCURACY FOR UNDERGROUND, NON-VISIBLE, QUALITY LEVEL D INFORMATION.

QUALITY LEVEL B (QL-B):
INCLUDES DESIGNATING THE UNDERGROUND UTILITIES BY MARKINGS PROVIDED THROUGH AN 811 CALL, BY CONTACTING AN INDIVIDUAL UTILITY COMPANY, OR PERFORMING TRACING OR GROUND PENETRATING RADAR. THE DESIGNATED UTILITY MARKINGS ARE THEN SURVEYED AND ADDED TO THE DRAWING. THIS DATA IS ADDED TO THE DATA COLLECTED FROM QUALITY LEVELS D AND C TO PROVIDE AN INCREASED LEVEL OF HORIZONTAL POSITION ACCURACY FOR UNDERGROUND, NON-VISIBLE UTILITIES.

QUALITY LEVEL A (QL-A):
INVOLVES PHYSICALLY LOCATING THE ACTUAL UTILITY BY MEANS OF TEST PITTING OR OTHER METHODS OF EXPOSURE. ONCE THE UTILITY IS EXPOSED IT IS LOCATED HORIZONTALLY AND VERTICALLY BY SURVEY MEASUREMENTS.

****ALL UTILITIES LACKING A QUALITY LEVEL DESIGNATION ON THE PLANS SHALL BE CONSIDERED QUALITY LEVEL D (QL-D).**



HORIZONTAL DATUM: NAD 83(2011)
VERTICAL DATUM: NAVD 88

SCALE: 1"=10'



PROJECT TEAM:

ARCHITECT:
BUELL KRATZER POWELL, P.C.
1525 LOCUST STREET
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T: 215.557.6509

CIVIL ENGINEER:
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CLIENT:
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1 SAFARI PLACE
BALTIMORE, MD 21217

ROUND STAND CAFE
THE MARYLAND ZOO
IN BALTIMORE
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SEAL:

DATE: AUGUST 10, 2026	
PROJECT NO: 2023-10.08	
DRAWN BY	SJT
CHECKED BY	CMS
SUBMISSION	DATE
BID SET	08/31/2026
REVISION	DATE

DRAWING TITLE:
EXISTING
CONDITIONS
PLAN

DRAWING NO:
C100



LEGEND

- EXISTING BUILDING
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING CURB
- EXISTING PAVEMENT
- EXISTING ASPHALT PAVING
- EXISTING CONCRETE PAVING
- EXISTING FENCELINE
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OWNER / DEVELOPER / APPLICANT:
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1876 MANSION HOUSE DRIVE
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GENERAL NOTES:

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****ALL UTILITIES LACKING A QUALITY LEVEL DESIGNATION ON THE PLANS SHALL BE CONSIDERED QUALITY LEVEL D (QL-D).**

SCALE: 1"=10'

DATE: AUGUST 10, 2026
PROJECT NO: 2023-10.08
DRAWN BY: SJT
CHECKED BY: CMS
SUBMISSION: DATE
BID SET: 08/31/2026

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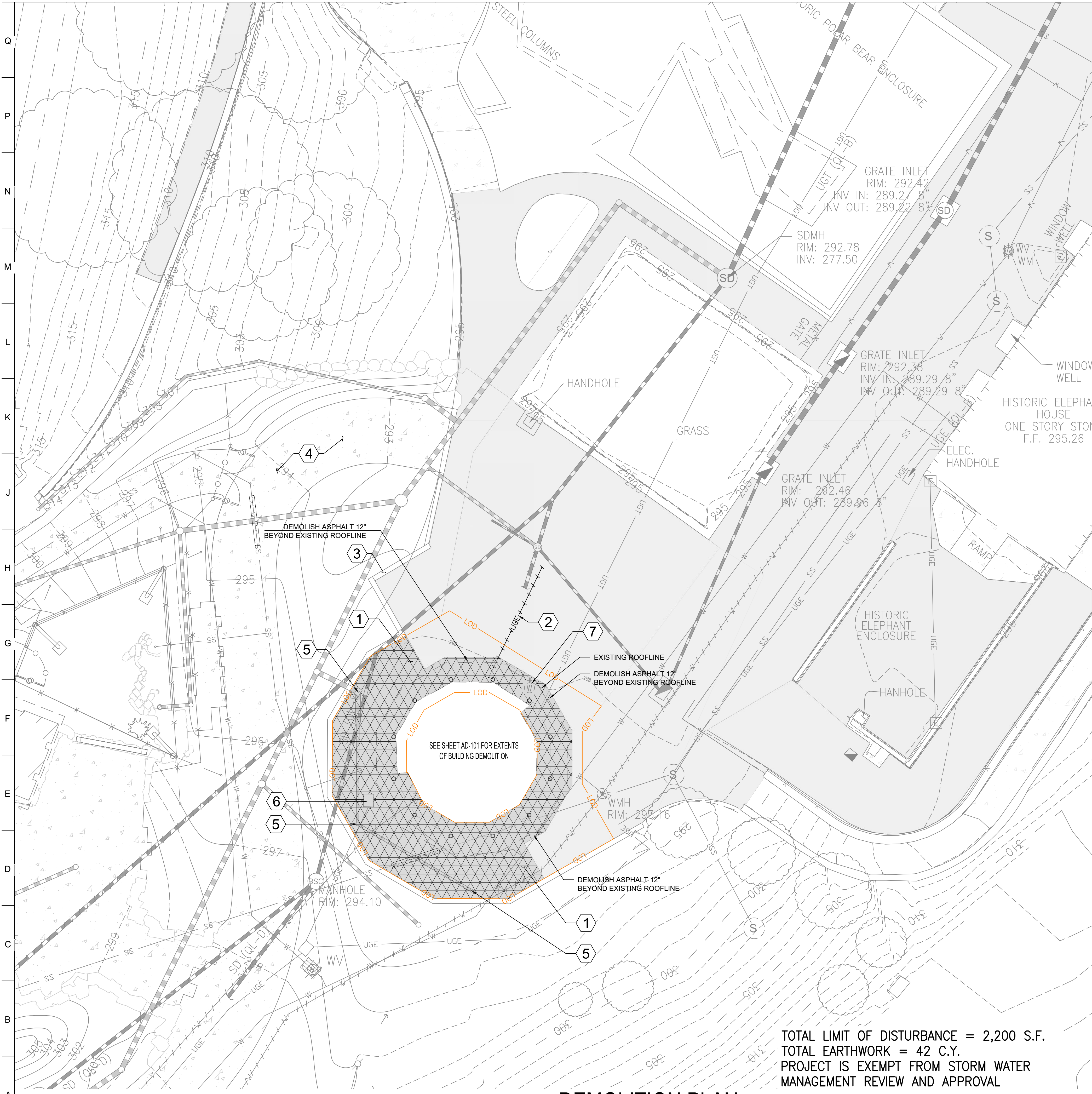
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SEAL:

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A QUALY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 14446, EXPIRATION DATE 2027.

DRAWING TITLE:
EXISTING
CONDITIONS
UTILITY PLAN

DRAWING NO:
C101



LEGEND

	EXISTING BUILDING
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING CURB
	EXISTING PAVEMENT
	EXISTING ASPHALT PAVING
	EXISTING CONCRETE PAVING
	EXISTING FENCE LINE
	EXISTING SIGN
	EXISTING ELECTRIC HANDBOX
	EXISTING ELECTRIC MANHOLE
	EXISTING UNDERGROUND ELECT
	EXISTING COMMUNICATION
	EXISTING GAS LINE
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	EXISTING STORMDRAIN INLET
	EXISTING STORMDRAIN MANHOLE
	EXISTING TELEPHONE
	EXISTING UTILITY POLE
	EXISTING LIGHT POLE
	EXISTING WATER LINE
	EXISTING WATER METER
	EXISTING WATER MANHOLE
	EXISTING EVERGREEN TREE
	UTILITY TO BE ABANDONED
	UTILITY TO BE REMOVED
	ASPHALT TO BE REMOVED
	CONCRETE TO BE REMOVED
	LIMIT OF SAWCUT/EXCAVATION
	TREE TO BE REMOVED
	LIMIT OF DISTURBANCE

OWNER / DEVELOPER / APPLICANT:
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1876 MANSION HOUSE DRIVE
BALTIMORE MD 21217
CONTACT: ADAM WYATT
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DEMOLITION LIST:

- ASPHALT w/6" CONC. BASE AND ASSOCIATED BASE MATERIAL TO BE SAWCUT AND REMOVED/DISPOSED OF.
- ABANDON ELECTRIC AND CONDUIT SUPPLYING CANOPY. SEE ELECTRICAL SITE PLAN SHEET ED-102.
- EXISTING WALLS TO REMAIN.
- EXISTING CONCRETE TO REMAIN.
- PROTECT STORM DRAIN STRUCTURE TO REMAIN.
- PROTECT ELECTRICAL HANDHOLE TO REMAIN.
- CONTRACTOR TO FIELD VERIFY IF EXISTING WATER HAND HOLE IS ACTIVE. IF ACTIVE, RAISE STRUCTURE TO EXISTING FINISHED GRADE. IF INACTIVE, REMOVE STRUCTURE AND PERMANENTLY CAP ANY CONNECTED PIPING.

DEMOLITION NOTES:

- CONTRACTOR SHALL CONTACT THE OWNER AND DEVELOPER 72 HOURS PRIOR TO COMMENCING ANY WORK.
- CONTRACTOR TO COORDINATE WITH MISS UTILITY, BALTIMORE COUNTY DEPARTMENT OF PROPERTY MANAGEMENT, AND A PRIVATE UTILITY LOCATOR COMPANY PRIOR TO COMMENCING ANY WORK. THE CONTRACTOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION.
- CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO AND DURING CONSTRUCTION/DEMOLITION AND NOTIFY THE OWNER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS.
- ALL UTILITY FRAMES AND COVERS TO REMAIN WITHIN THE PROJECT AREA SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET NEW PAVEMENT OR GROUND ELEVATION. THE CONTRACTOR SHALL MAKE, CHECK, AND BE RESPONSIBLE FOR ALL MEASUREMENTS AND DIMENSIONS NECESSARY FOR THE PROPER CONSTRUCTION OF AND THE PREVENTION OF MISFITTINGS IN THE WORK. VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES BEFORE STARTING CONSTRUCTION IN EACH AREA.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY DISTURBANCE OR DEMOLITION IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN.
- CONTRACTOR SHALL STABILIZE ALL UNINTENTIONALLY DISTURBED AREAS OUTSIDE OF THE L.O.D. BY THE END OF THE SAME WORKING DAY.
- CONTRACTOR SHALL DISPOSE OF ALL DEMOLISHED AND DELETERIOUS MATERIALS NOT TO BE SALVAGED FOR REUSE ON SITE IN A SAFE AND LEGAL MANNER.
- CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITY STRUCTURES TO REMAIN DURING DEMOLITION AND CONSTRUCTION ACTIVITIES AND TO PREVENT DEBRIS, SEDIMENT, OR WATER FROM ENTERING THE STRUCTURES.
- CONTRACTOR SHALL PROTECT ALL FACILITIES AND UTILITIES TO REMAIN FROM DAMAGE WHETHER SHOWN HEREON OR NOT.
- CONTRACTOR TO REMOVE ALL POLES, FOUNDATIONS, TIES, MANHOLES, MANHOLE COVERS, METERS/VAULTS, HAND BOXES, ETC. ASSOCIATED WITH EXISTING UTILITIES TO BE REMOVED UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL EXISTING POLES TO REMAIN.
- ALL PAVEMENT SHALL BE SAWCUT PRIOR TO REMOVAL WHERE EXISTING CURB IS BEING REMOVED AND/ OR THERE IS ADJOINING PAVEMENT TO REMAIN. ALL SAWCUTS ARE TO BE NEAT, CLEAN AND STRAIGHT.
- THE CONTRACTOR SHALL RESTORE ANY AND ALL AREAS DISTURBED DURING CONSTRUCTION TO ORIGINAL CONDITION OR BETTER.
- ALL EXISTING PAINT MARKINGS ADJACENT TO THE PROJECT AREA WHICH BECAME FADED OR OBTUSCURED DUE TO CONSTRUCTION ACTIVITY SHALL BE REPAINTED OR RESTORED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL USE CAUTION WHEN WORKING AROUND EXISTING TREES TO REMAIN SO AS TO NOT DAMAGE THE TREES, TREE BRANCHES OR TREE ROOT SYSTEM.
- CONTRACTOR SHALL INSTALL ORANGE PLASTIC MESH TREE PROTECTION FENCE (TPF) PRIOR TO ANY DEMOLITION ACTIVITIES, UNLESS OTHERWISE NOTED.
- ALL ABANDONED UTILITIES SHALL BE PERMANENTLY CAPPED IN ACCORDANCE WITH UTILITY OWNERS REQUIREMENTS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL COORDINATE WITH OWNER AND UTILITY PROVIDER TO MINIMIZE DURATION OF UTILITY OUTAGES.
- CONTRACTOR SHALL MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS TO AND AROUND ADJACENT AREAS AS DIRECTED BY THE OWNER DURING CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL FURNISH VEHICULAR AND PEDESTRIAN TRAFFIC PROTECTION IN ACCORDANCE WITH MUTCD LATEST VERSION.
- CONTRACTOR SHALL UTILIZE SIX (6) FOOT TALL CHAIN LINK CONSTRUCTION FENCE AROUND ALL ACTIVE WORK AREAS. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND WARNING MEASURES TO PROTECT PEDESTRIANS FROM CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL FURNISH VISUAL SCREENS ON THE FENCE AS DIRECTED BY THE OWNER.
- CONTRACTORS SHALL SUBMIT TO BALTIMORE CITY FOR ALL APPLICABLE PERMITS.
- CONTRACTOR SHALL COORDINATE SITE ACCESS, CONTRACTOR PARKING, AND CONSTRUCTION MATERIAL STAGING AND STORAGE WITH THE OWNER.
- COORDINATE CONSTRUCTION WITH ANY ADJACENT WORK UNDER SEPARATE CONTRACT.

DEMOLITION PLAN

SCALE: 1"=10'

SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.



PROJECT TEAM:

ARCHITECT:
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SEAL:

STATE OF MARYLAND
JAMES A. CRYSTAL
REGISTERED PROFESSIONAL ENGINEER
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 14446, EXPIRATION DATE 02/27.

DATE: AUGUST 10, 2026	
PROJECT NO: 2023-10-08	
DRAWN BY	SJT
CHECKED BY	CMS
SUBMISSION	DATE
BID SET	08/31/2026
REVISION	DATE

DRAWING TITLE:
DEMOLITION
PLAN

DRAWING NO:
C200

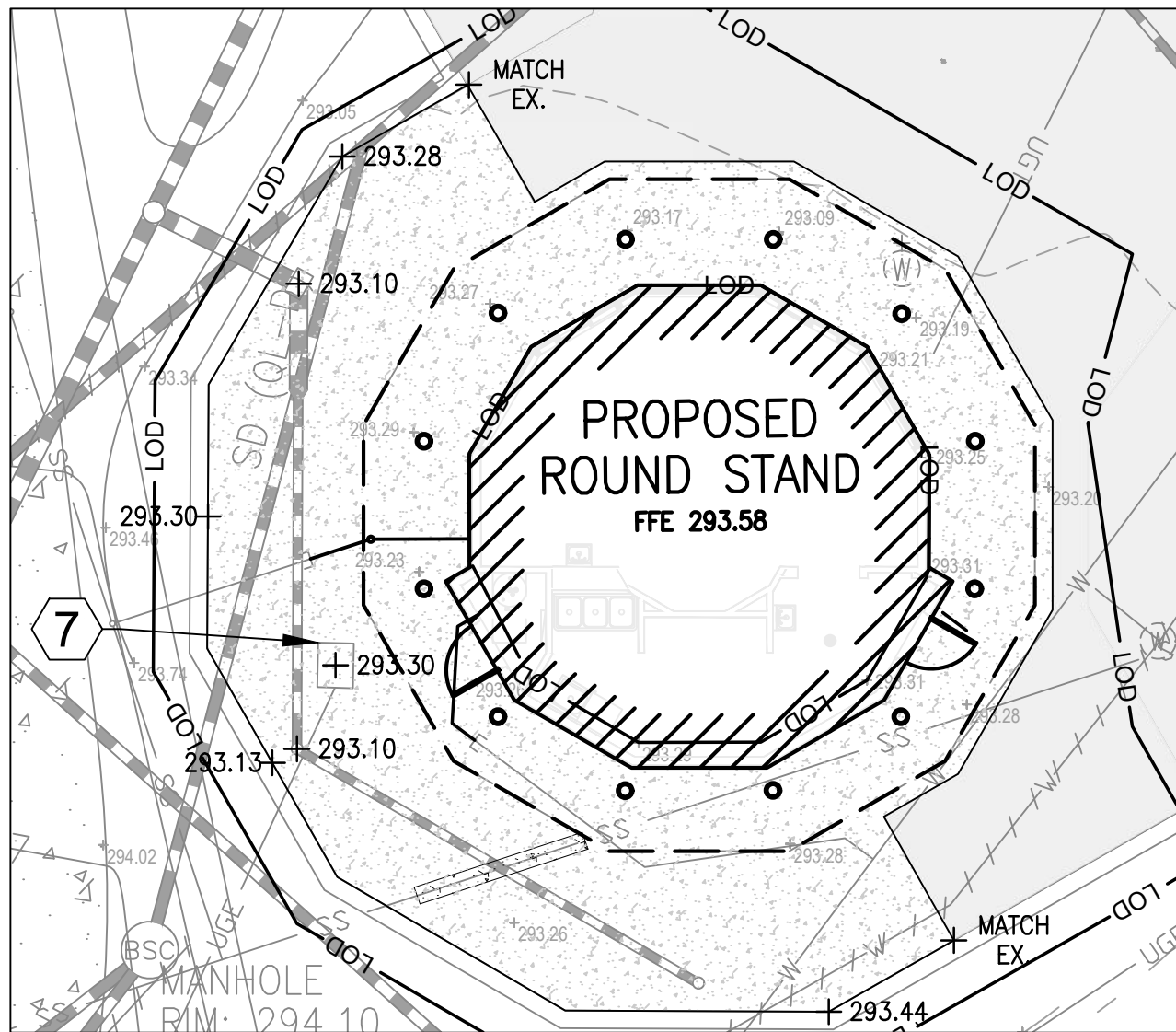


- LEGEND**
- EXISTING BUILDING
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 - EXISTING WATER MANHOLE
 - EXISTING EVERGREEN TREE
 - PROPOSED BUILDING
 - PROPOSED CURB
 - PROPOSED CONCRETE WALK

SEE LANDSCAPE AND ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION AND DETAILS.
TOTAL LIMIT OF DISTURBANCE = 2,200 S.F.
TOTAL EARTHWORK = 42 C.Y.
PROJECT IS EXEMPT FROM STORM WATER MANAGEMENT REVIEW AND APPROVAL

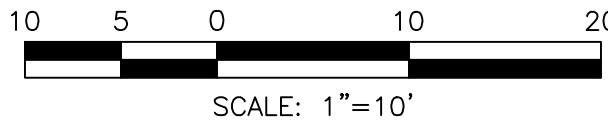
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- SITE FEATURE LIST:**
- CONCRETE PAVING. SEE ARCHITECTURAL PLANS FOR PLAN ENLARGEMENT AND ROOF PLANS. SEE SHEET L101 FOR ADDITIONAL INFORMATION. CONCRETE PAVING TO EXTEND 1-FOOT BEYOND ROOF DRIPLINE
 - RAISE OR LOWER WATER HAND HOLE TO BE FLUSH WITH ADJACENT PAVING.
 - COORDINATE PAVEMENT SURFACE COURSE INSTALLATION WITH ADJACENT PROJECT CONTRACTOR, UNDER SEPARATE CONTRACT, TO PROVIDE CONTINUOUS PAVEMENT SURFACE COURSE INSTALLATION AT THE END OF THE PROJECT.
 - PROVIDE 3/4" WATER CONNECTION TO EXISTING 3/4" STUB INSTALLED UNDER SEPARATE CONTRACT.
 - PROVIDE 4" SANITARY CONNECTION AND CLEAN OUT TO EXISTING 4" PVC STUB INSTALLED UNDER SEPARATE CONTRACT.
 - PROTECT INLET PROTECTION WHEN ADJACENT AREAS ARE DISTURBED (INLETS INSTALLED BY OTHERS). ADJUST EXISTING FRAME AND GRATE TO MATCH PROPOSED GRADE. NEW CONCRETE TO SLOPE TO INLETS TO AVOID PONDING (TYP.).
 - PROVIDE POSITIVE SLOPE FROM INLETS TO ELECTRIC BOX SUCH THAT WATER DRAINS FROM ELECTRIC BOX TO INLETS. ENSURE FINISHED GRADE OF ELECTRIC BOX AND INLETS ARE LOWER THAN BUILDING FINISHED FLOOR ELEVATION.



GRADING INSET

SCALE: 1" = 10'



CONSTRUCTION NOTES:

- CONTRACTOR SHALL CONTACT THE OWNER AND DEVELOPER 72 HOURS PRIOR TO COMMENCING ANY WORK.
- CONTRACTOR TO COORDINATE WITH MISS UTILITY, THE MARYLAND ZOO, AND A PRIVATE UTILITY LOCATOR COMPANY PRIOR TO COMMENCING ANY WORK. THE CONTRACTOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION.
- CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO AND DURING CONSTRUCTION/DEMOLITION AND NOTIFY THE OWNER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS.
- ALL UTILITY FRAMES AND COVERS TO REMAIN WITHIN THE PROJECT AREA SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET NEW PAVEMENT OR GROUND ELEVATION. THE CONTRACTOR SHALL MAKE, CHECK, AND BE RESPONSIBLE FOR ALL MEASUREMENTS AND DIMENSIONS NECESSARY FOR THE PROPER CONSTRUCTION OF AND THE PREVENTION OF MISFITTINGS IN THE WORK. VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES BEFORE STARTING CONSTRUCTION IN EACH AREA.
- CONTRACTOR SHALL STABILIZE ALL UNINTENTIONALLY DISTURBED AREAS OUTSIDE OF THE L.O.D. BY THE END OF THE SAME WORKING DAY.
- CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITY STRUCTURES TO REMAIN DURING DEMOLITION AND CONSTRUCTION ACTIVITIES AND TO PREVENT DEBRIS, SEDIMENT, OR WATER FROM ENTERING THE STRUCTURES.
- CONTRACTOR SHALL PROTECT ALL FACILITIES AND UTILITIES TO REMAIN FROM DAMAGE WHETHER SHOWN HEREON OR NOT.
- CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL EXISTING POLES TO REMAIN.
- THE CONTRACTOR SHALL RESTORE ANY AND ALL AREAS DISTURBED DURING CONSTRUCTION TO ORIGINAL CONDITION OR BETTER.
- ALL EXISTING PAINT MARKINGS ADJACENT TO THE PROJECT AREA WHICH BECOME FADED OR OBTUSCURED DUE TO CONSTRUCTION ACTIVITY SHALL BE REPAINTED OR RESTORED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL USE CAUTION WHEN WORKING AROUND EXISTING TREES TO REMAIN SO AS TO NOT DAMAGE THE TREES, TREE BRANCHES OR TREE ROOT SYSTEM.
- THE CONTRACTOR SHALL PROTECT ALL DOWNSTREAM AREAS FROM EROSION AND SEDIMENT DURING ANY DISTURBANCE ACTIVITIES IN ACCORDANCE WITH MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) AND THE CITY OF BALTIMORE REQUIREMENTS.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO PERFORM ALL CONSTRUCTION RELATED ACTIVITIES.
- CONTRACTOR SHALL MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS TO AND AROUND ADJACENT AREAS AS DIRECTED BY THE OWNER DURING CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL FURNISH VEHICULAR AND PEDESTRIAN TRAFFIC PROTECTION IN ACCORDANCE WITH MUTCD LATEST VERSION.
- CONTRACTOR SHALL UTILIZE SIX (6) FOOT TALL CHAIN LINK CONSTRUCTION FENCE AROUND ALL ACTIVE WORK AREAS. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND WARNING MEASURES TO PROTECT PEDESTRIANS FROM CONSTRUCTION ACTIVITIES. CONTRACTORS SHALL SUBMIT TO BALTIMORE CITY FOR ALL APPLICABLE PERMITS.

HORIZONTAL DATUM: NAD 83(2011)
VERTICAL DATUM: NAVD 88

BKP

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MEP ENGINEER:
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190 WEST OSTEND ST, STE 300
BALTIMORE, MD 21230
T: 410.244.7191

CLIENT:

MARYLAND ZOO

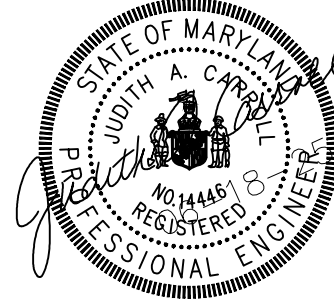
THE MARYLAND ZOO IN BALTIMORE
1 SAFARI PLACE
BALTIMORE, MD 21217

ROUND STAND CAFE

THE MARYLAND ZOO
IN BALTIMORE
1 SAFARI PLACE
BALTIMORE, MD 21217

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SEAL:



DATE: AUGUST 10, 2026

PROJECT NO: 2023-10-08

DRAWN BY: SJT

CHECKED BY: CMS

SUBMISSION: DATE

BID SET: 08/31/2026

REVISION

DATE

DRAWING TITLE:

PROPOSED
CONDITIONS
PLAN

DRAWING NO:

C300

Q

P

N

M

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F

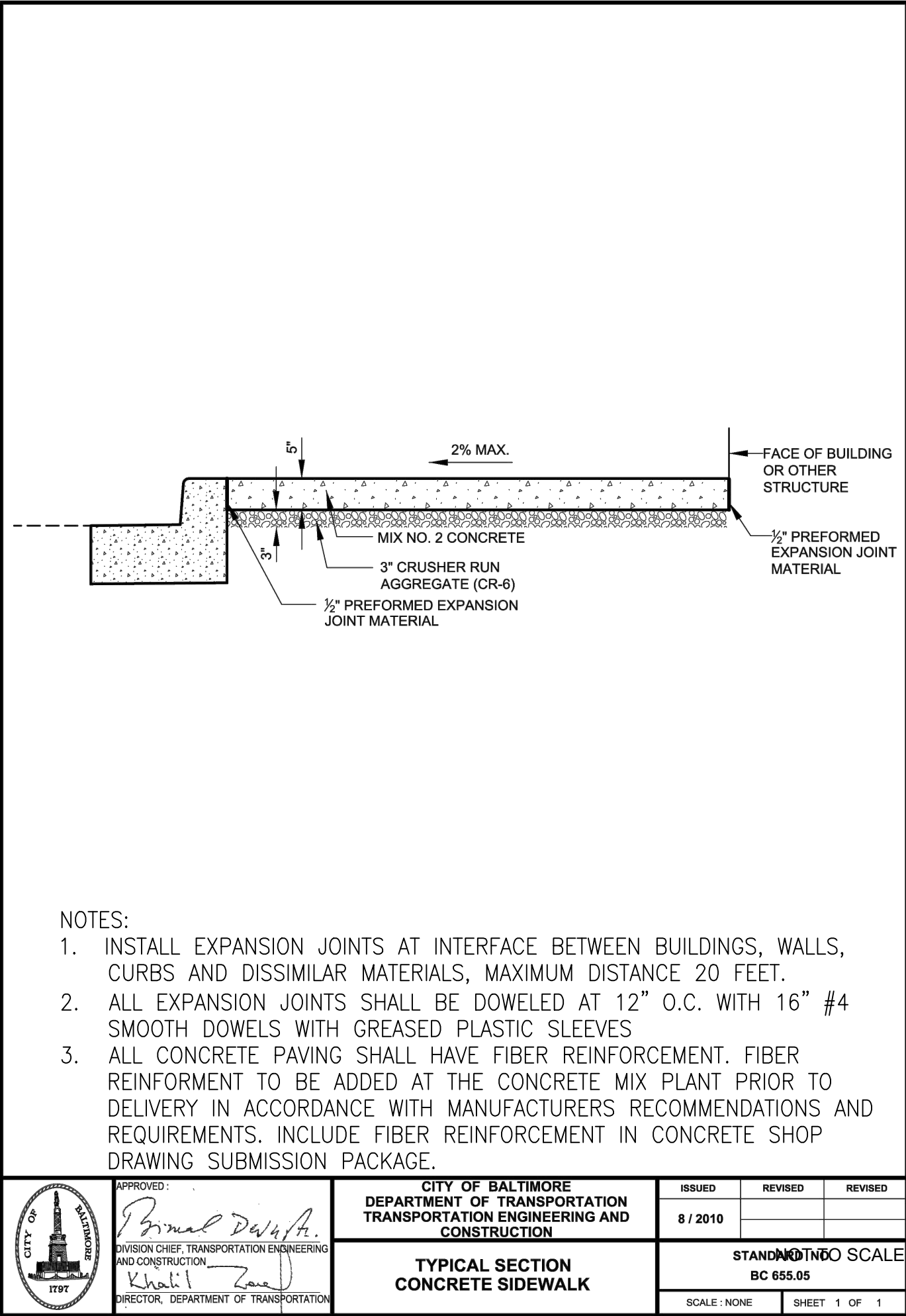
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C

B

A



1 TYPICAL SECTION CONCRETE SIDEWALK
BALTIMORE CITY STANDARD 655.05

HORIZONTAL DATUM: NAD 83(2011)
VERTICAL DATUM: NAVD 88

OWNER / DEVELOPER / APPLICANT:
MARYLAND ZOO IN BALTIMORE
1876 MANSION HOUSE DRIVE
BALTIMORE MD 21217
CONTACT: ADAM WYATT
PHONE: 443-552-5326

BKP

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T: 410.244.7191

CLIENT:
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BALTIMORE, MD 21217

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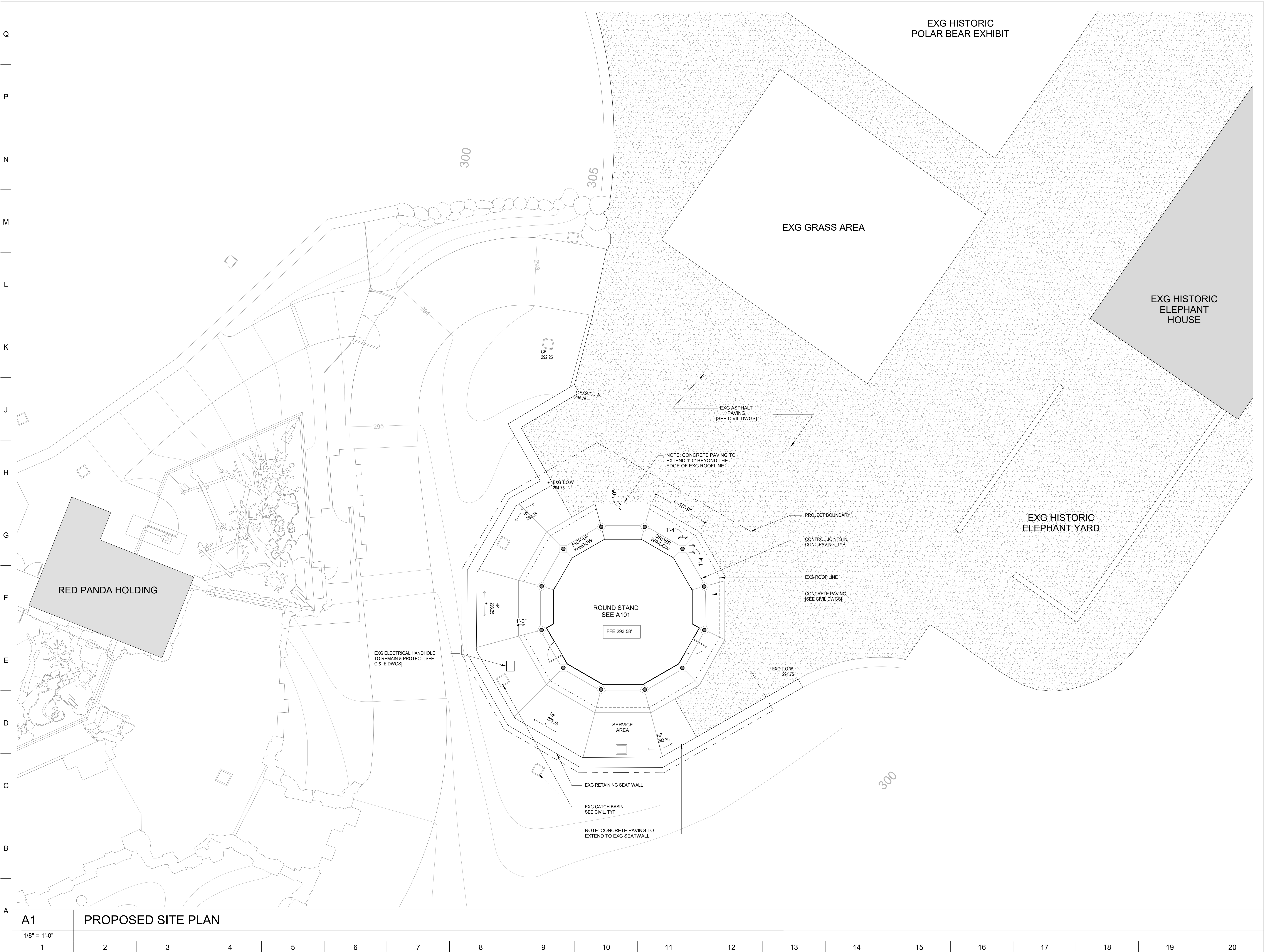
SEAL:

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 14446, EXPIRATION DATE 5/25/27.

DATE: AUGUST 10, 2026	
PROJECT NO: 2023-10.08	
DRAWN BY	SJT
CHECKED BY	CMS
SUBMISSION	DATE
BID SET	08/31/2026
REVISION	DATE

DRAWING TITLE:
SITE DETAILS

DRAWING NO:
C310



PROJECT TEAM:

ARCHITECT:
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CLIENT:

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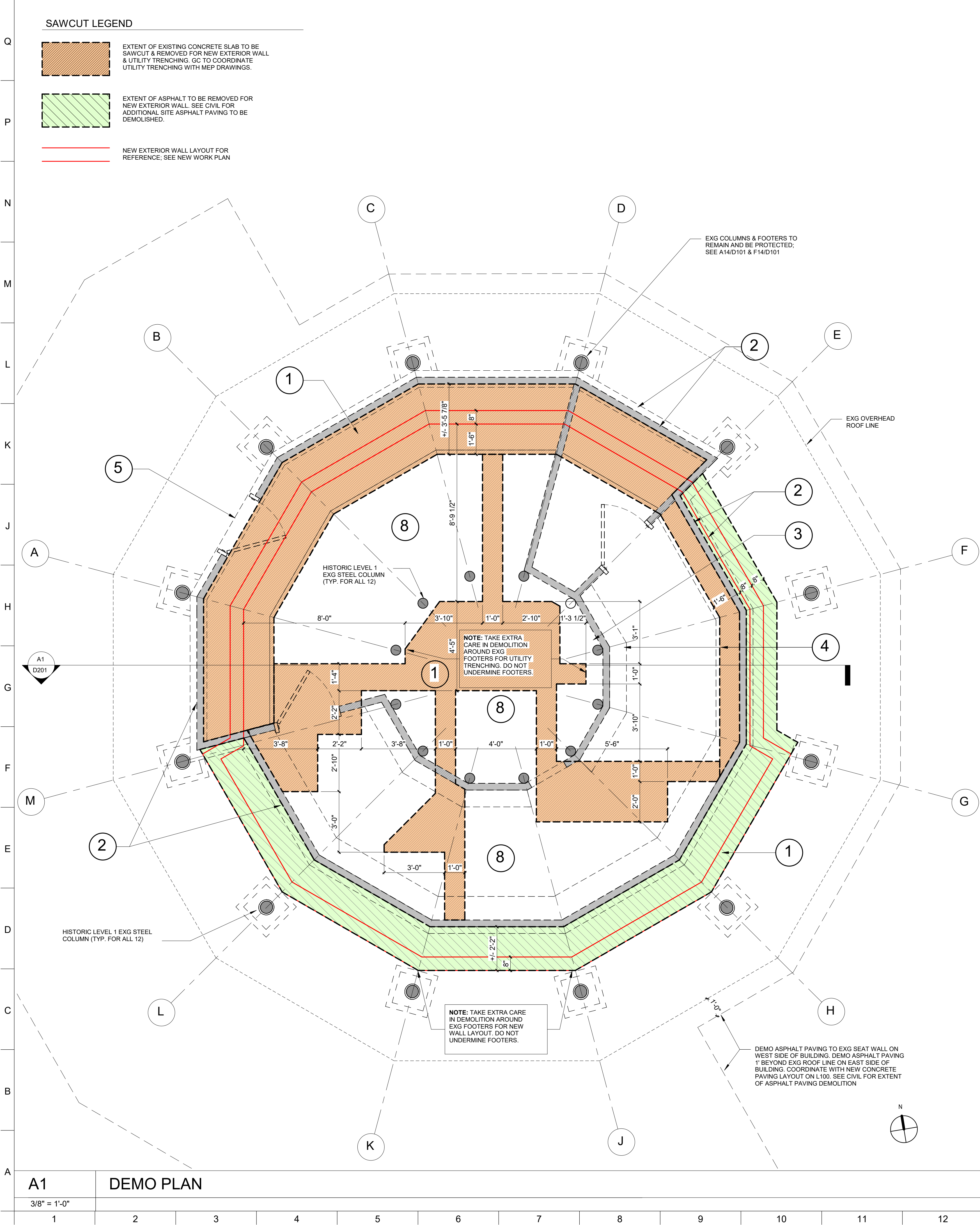
SEAL:

STATE OF MARYLAND
JOSEPH H. POWELL
14268
ARCHITECT
JOSEPH H. POWELL, AIA
MD LICENSE: 14268

DATE:	August 10, 2026
PROJECT NO:	2023-10.08
DRAWN BY	Author
CHECKED BY	Checker
SUBMISSION	DATE
BID SET	08/10/2026
REVISION	DATE

DRAWING TITLE:
PROPOSED SITE PLAN

DRAWING NO:
L100

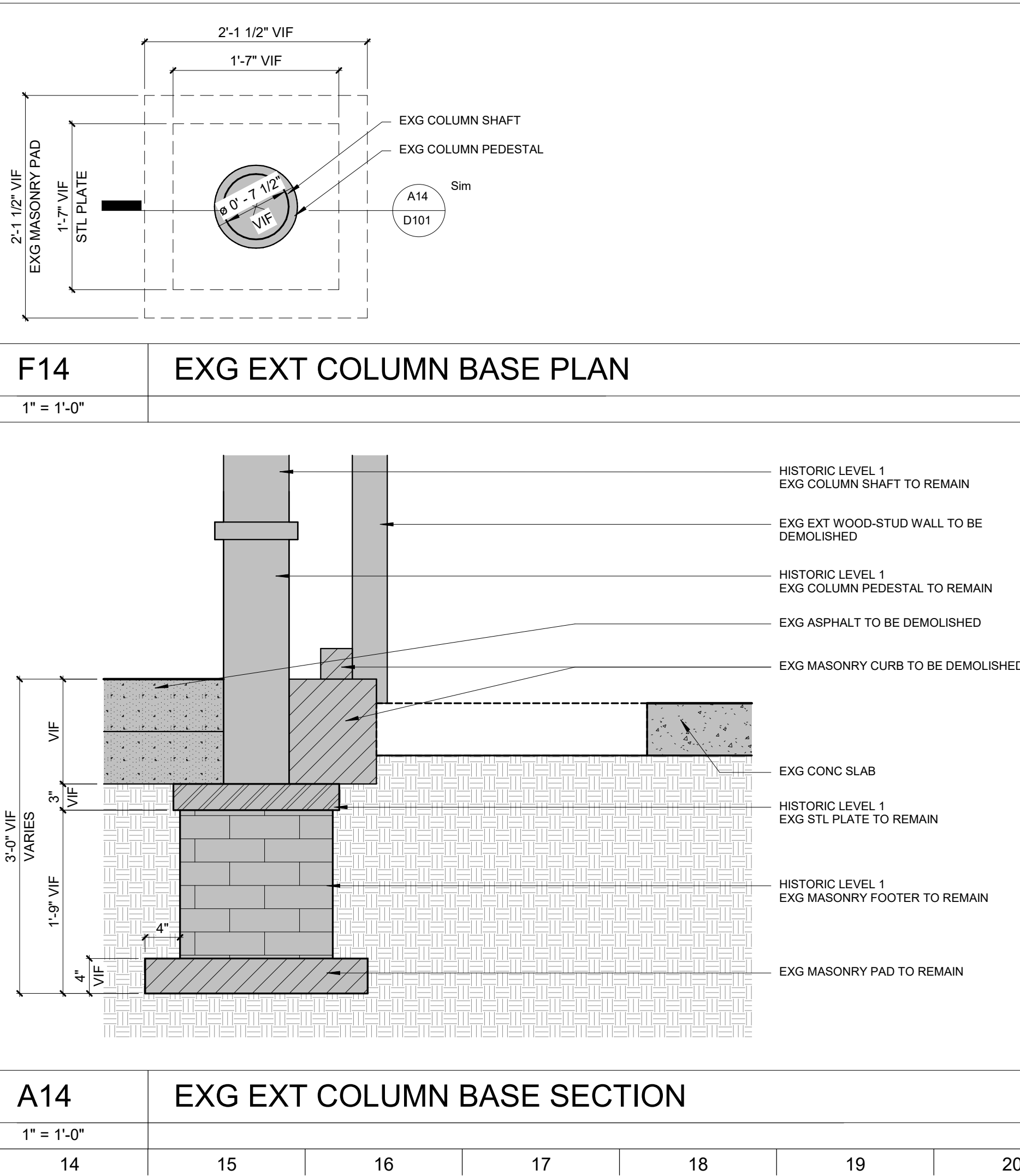


DEMOLITION LEGEND	DEMOLITION KEY NOTES
PROJECT BOUNDARY	1 SAWCUT CONCRETE SLAB & ASPHALT, 8" OFFSET MINIMUM ON BOTH SIDES OF THE PROPOSED NEW WALL LOCATION (24" TOTAL WIDTH), U.N.O. FOR INSTALLATION OF NEW WALLS. SEE SAWCUT LEGEND.
EXISTING WALL OR BUILDING COMPONENT TO BE REMOVED OR MODIFIED. SEE NOTES FOR EXTENTS.	2 REMOVE EXISTING EXTERIOR WALLS AND MASONRY CURBS
EXISTING DOOR, FRAME AND HARDWARE TO BE REMOVED, UNO.	3 REMOVE EXISTING INTERIOR WALLS
EXISTING COLUMNS AND ORIGINAL STRUCTURE TO REMAIN AND BE PROTECTED	4 REMOVE EXISTING CASEWORK
AREA OF SLAB CUTTING AND EXCAVATION FOR NEW WALLS; COORDINATE WITH NEW WORK PLAN	5 REMOVE EXISTING DOORS, FRAMES, AND HARDWARE
KEYNOTE	6 EXISTING BEAD BOARD TO REMAIN AND BE PROTECTED U.N.O. SEE RCP LEGEND
	7 REMOVE AND DISPOSE OF EXG PLY CEILINGS; VERIFY EXTENT OF PLY CEILINGS IN FIELD.
	8 REMOVE ALL EXTRANEIOUS MATERIALS INCLUDING EQUIPMENT, LIGHT FIXTURES, ABANDONED HOOKS, WALL BRACKETS, WALL ANCHORS, ATTACHMENTS, ETC. [SEE MEP DEMO DWGS]
	9 REMOVE EXISTING ROOF ASPHALT SHINGLES AND ANY UNDERLAYMENT TO THE LEVEL OF THE ROOF DECK, EXISTING ROOF DECK TO REMAIN AND BE PROTECTED.
DEMOLITION GENERAL NOTES	
1. Contractor shall verify all existing conditions prior to construction. Contractor shall notify Owner's representative of discrepancies prior to construction. 2. Contractor access for construction shall be as directed by Owner's representative. 3. Staging areas and on-site storage of contractor equipment shall be reviewed and approved by the Owner prior to the beginning of construction. 4. Contractor shall protect the general public from construction areas during construction. Contractor shall coordinate with Owner's representative prior to construction. 5. Photographs are provided to assist in describing existing conditions. Contractor must field verify for accuracy and full extent of work.	
NOTE: SEE CIVIL AND MEP FOR ADDITIONAL DEMOLITION INFORMATION	

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ANY WORK ON OR AROUND THESE ITEMS MUST BE UNDERTAKEN WITH CARE. DEMOLITION ACTIVITIES MUST FOLLOW THE PROVISIONS OF SECTION 024296 - HISTORIC REMOVAL AND DISMANTLING.

DESIGNATIONS HISTORIC LEVEL 1, HISTORIC LEVEL 2, AND HISTORIC LEVEL 3 ATTACHED TO ANY EXISTING CONSTRUCTION CORRESPONDS TO THE DEFINITIONS INCLUDED IN 024296-1.2.C.



BKP

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SEAL:

STATE OF MARYLAND
JOSEPH H. POWELL
ARCHITECT
14268
JOSEPH H. POWELL, AIA
MD LICENSE: 14268

DATE: August 10, 2026	PROJECT NO: 2023-10.08
DRAWN BY	Author
CHECKED BY	Checker
SUBMISSION	DATE
BID SET	08/10/2026
REVISION	DATE

DRAWING TITLE:
DEMO FLOOR PLAN

DRAWING NO:
D101

Diagram illustrating three types of existing beadboard:

- EXISTING BEADBOARD TO REMAIN. PROTECT. EXG BEADBOARD CONTAINS LEAD-BASED PAINT.** (Solid line)
- EXISTING BEADBOARD W/ EXG LEAD BASED PAINT TO BE CAREFULLY REMOVED AND DISPOSED OF.** (Wavy line)
- ALL EXISTING PLYWOOD TO BE DEMOLISHED; VERIFY PLY PANEL LOCATIONS IN FIELD.** (Dashed line)

PROTECT EXISTING TRIM

PROTECT —
EXISTING TRIM

— EXG COLUMNS AND ORIGINAL
STRUCTURE TO REMAIN AND
BE PROTECTED DURING
CONSTRUCTION

HISTORIC LEVEL 1 EXG STEEL COLUMNS,
RAFTER TAILS, BEAMS, BRACKETS, TRIM,
ETC TO BE PROTECTED, TYPICAL
AROUND ENTIRE BLDG.

NOTE: EXG LEAD BASED PAINT, TYP.

PROJECT BOUNDARY	
	EXISTING WALL OR BUILDING COMPONENT TO BE REMOVED OR MODIFIED. SEE NOTES FOR EXTENTS.
	EXISTING DOOR, FRAME AND HARDWARE TO BE REMOVED, UNO.
	EXISTING COLUMNS AND ORIGINAL STRUCTURE TO REMAIN AND BE PROTECTED
	AREA OF SLAB CUTTING AND EXCAVATION FOR NEW WALLS, COORDINATE WITH NEW WORK PLAN
	KEYNOTE

- 1 SAWCUT UNDERLAYER SLAB & ASPHALT. 3" MIN SET MINIMUM ON BOTH SIDES OF THE PROPOSED NEW WALL LOCATION (24" TOTAL WIDTH). U.N.O. FOR INSTALLATION OF NEW WALLS. SEE SAWCUT LEGEND.
- 2 REMOVE EXISTING EXTERIOR WALLS AND MASONRY CURBS
- 3 REMOVE EXISTING INTERIOR WALLS
- 4 REMOVE EXISTING CASEWORK
- 5 REMOVE EXISTING DOORS, FRAMES, AND HARDWARE
- 6 EXISTING BEAD BOARD TO REMAIN AND BE PROTECTED U.N.O.
SEE RCP LEGEND
- 7 REMOVE AND DISPOSE OF EXG PLY CEILINGS; VERIFY EXTENT OF PLY CEILINGS IN FIELD.
- 8 REMOVE ALL EXTRANEOUS MATERIALS INCLUDING EQUIPMENT, LIGHT FIXTURES, ABANDONED HOOKS, WALL BRACKETS, WALL ANCHORS, ATTACHMENTS, ETC. (SEE MEP DEMO DWGS)
- 9 REMOVE EXISTING ROOF ASPHALT SHINGLES AND ANY UNDERLAYMENT TO THE LEVEL OF THE ROOF DECK, EXISTING ROOF DECK TO REMAIN AND BE PROTECTED.

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NOTE: SEE CIVIL AND MEP FOR ADDITIONAL DEMOLITION INFORMATION

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DESIGNATIONS HISTORIC LEVEL 1, HISTORIC LEVEL 2, AND HISTORIC LEVEL 3 ATTACHED TO ANY EXISTING CONSTRUCTION CORRESPONDS TO THE DEFINITIONS INCLUDED IN 024296-1.2.C.



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SEAL: 

DATE: August 10, 2026	
PROJECT NO: 2023-10.08	
DRAWN BY	Author
CHECKED BY	Checker
SUBMISSION	DATE
BID SET	08/10/2026

REVISION	DATE

DRAWING TITLE:
DEMO RCP

DRAWING NO:
D102

EXISTING CONDITIONS PHOTOS



EXG ORIGINAL ROOF
STRUCTURE TO REMAIN AND
BE PROTECTED DURING
CONSTRUCTION



EXG CUPOLA, COLUMNS, AND
ORIGINAL STRUCTURE TO
REMAIN AND BE PROTECTED
DURING CONSTRUCTION



3

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8



6

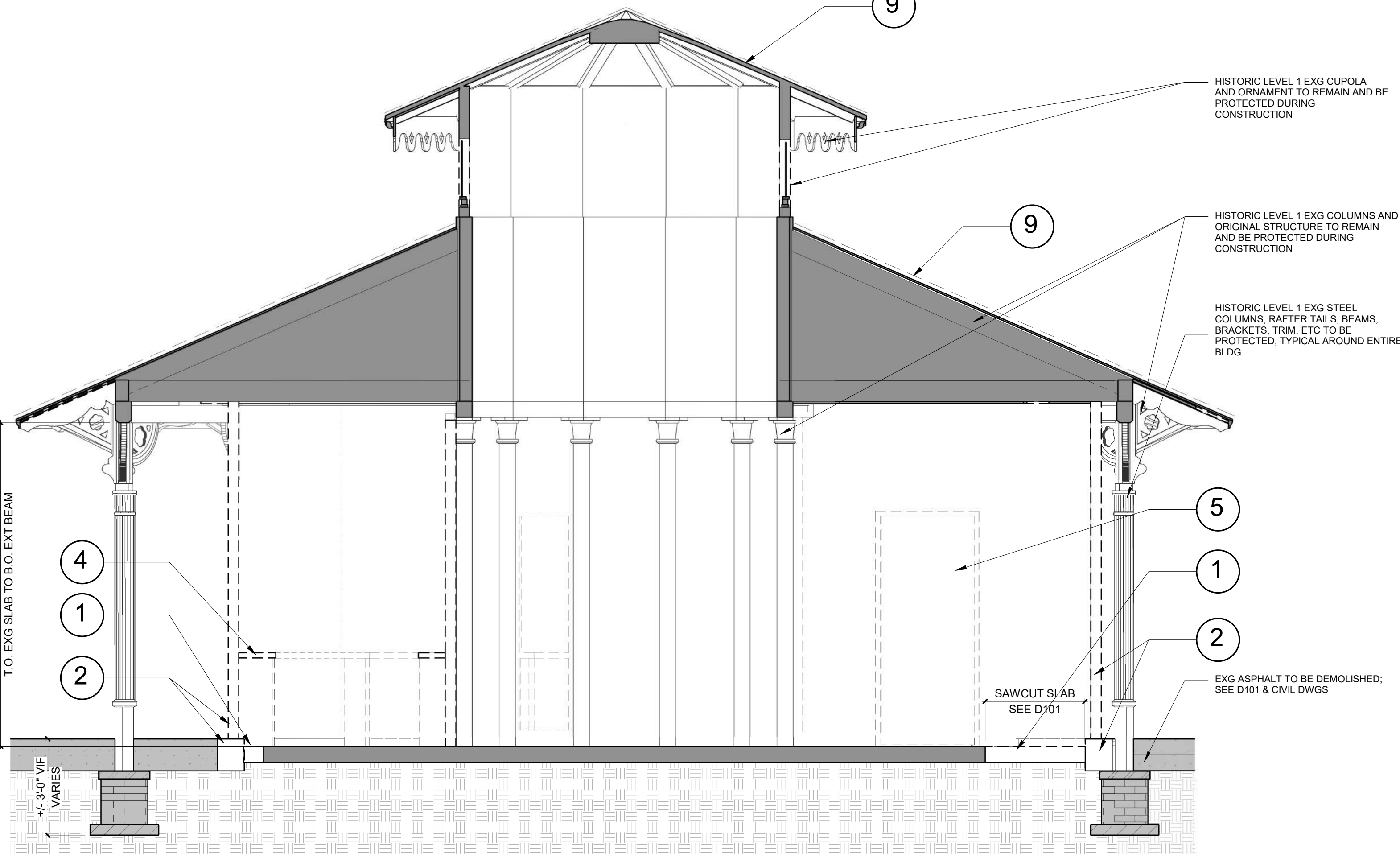
EXG COLUMNS AND ORIGINAL
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BE PROTECTED DURING
CONSTRUCTION

EXG COLUMNS AND ORIGINAL
STRUCTURE TO REMAIN AND BE
PROTECTED DURING CONSTRUCTION

2

4

8



HISTORIC LEVEL 1 EXG CUPOLA
AND ORNAMENT TO REMAIN AND BE
PROTECTED DURING
CONSTRUCTION

HISTORIC LEVEL 1 EXG COLUMNS AND
ORIGINAL STRUCTURE TO REMAIN
AND BE PROTECTED DURING
CONSTRUCTION

HISTORIC LEVEL 1 EXG STEEL
COLUMNS, RAFTER TAILS, BEAMS,
BRACKETS, TRIM, ETC TO BE
PROTECTED, TYPICAL AROUND ENTIRE
BLDG.

EXG ASPHALT TO BE DEMOLISHED;
SEE D101 & CIVIL DWGS

SAWCUT SLAB
SEE D101

±10'-1" V/F
TO EXG SLAB TO BO. EXT BEAM

293.58
0' - 0"

±1.3' V/F
VARIES

A1 DEMO SECTION

3/8" = 1'-0"

DEMOLITION LEGEND	DEMOLITION KEY NOTES
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MEP ENGINEER:
KOVACS, WHITNEY & ASSOCIATES
190 WEST OSTEND ST, STE 300
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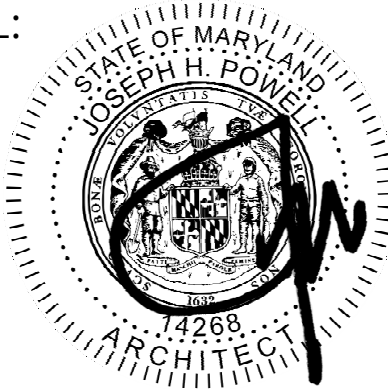
CLIENT:

MARYLAND ZOO
THE MARYLAND ZOO IN BALTIMORE
1 SAFARI PLACE
BALTIMORE, MD 21217

ROUND STAND CAFE
THE MARYLAND ZOO
IN BALTIMORE
1876 MANSION HOUSE DRIVE
BALTIMORE, MD 21217

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SEAL:



JOSEPH H. POWELL, AIA
MD LICENSE: 14268

DATE: August 10, 2026

PROJECT NO: 2023-10.08

DRAWN BY	Author
CHECKED BY	Checker
SUBMISSION	DATE
BID SET	08/10/2026

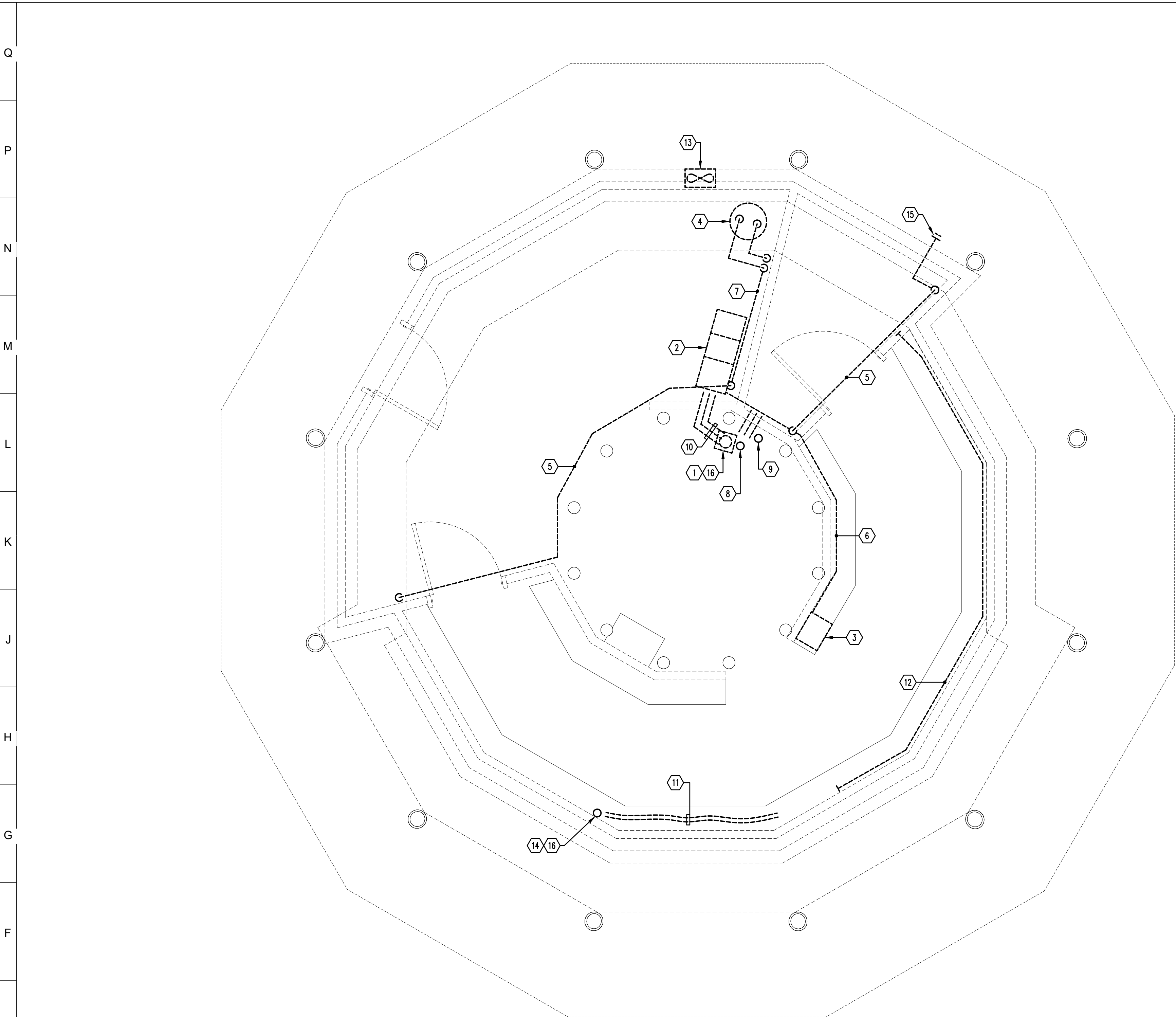
REVISION	DATE

DRAWING TITLE:

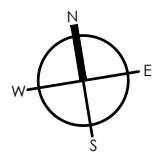
DEMO SECTION

DRAWING NO:

D201



FLOOR PLAN - MECHANICAL/PLUMBING - DEMOLITION
SCALE: 3/8"=1'-0"



DRAWING NOTES:

- 1 REMOVE EXISTING FLOOR SINK AND ASSOCIATED SAN PIPING.
- 2 REMOVE EXISTING 2-COMPARTMENT SINK AND ASSOCIATED SAN, CW AND HW PIPING.
- 3 REMOVE EXISTING COUNTERTOP SINK AND ASSOCIATED SAN, CW AND HW PIPING.
- 4 REMOVE EXISTING WATER HEATER AND ASSOCIATED CW AND HW PIPING.
- 5 REMOVE EXISTING 1/2" CW PIPING.
- 6 REMOVE EXISTING SAN, CW AND HW PIPING.
- 7 REMOVE EXISTING CW AND HW PIPING.
- 8 REMOVE EXISTING 1" CW SERVICE DOWN BELOW SLAB. REMOVE UNDERGROUND WATER SERVICE TO A POINT BEYOND BUILDING FOOTPRINT AND CAP.
- 9 REMOVE EXISTING 1-1/2" VENT PIPE DOWN THROUGH SLAB AND UP THROUGH ROOF.
- 10 REMOVE ALL DRAINAGE PIPING DISCHARGING IN FLOOR SINK.
- 11 REMOVE EXISTING PLASTIC DRAINAGE PIPING.
- 12 REMOVE EXISTING CONDUIT WITH TUBING.
- 13 REMOVE EXISTING WALL MOUNTED EXHAUST FAN.
- 14 REMOVE EXISTING OPEN DRAIN PIPE AND ASSOCIATED PIPING DOWN BELOW FLOOR SLAB.
- 15 REMOVE EXISTING HOSE BIBB AND ASSOCIATED CW PIPING.
- 16 REMOVE EXISTING UNDERGROUND SAN PIPING TO A POINT BEYOND BUILDING FOOTPRINT AND CAP.



PROJECT TEAM:

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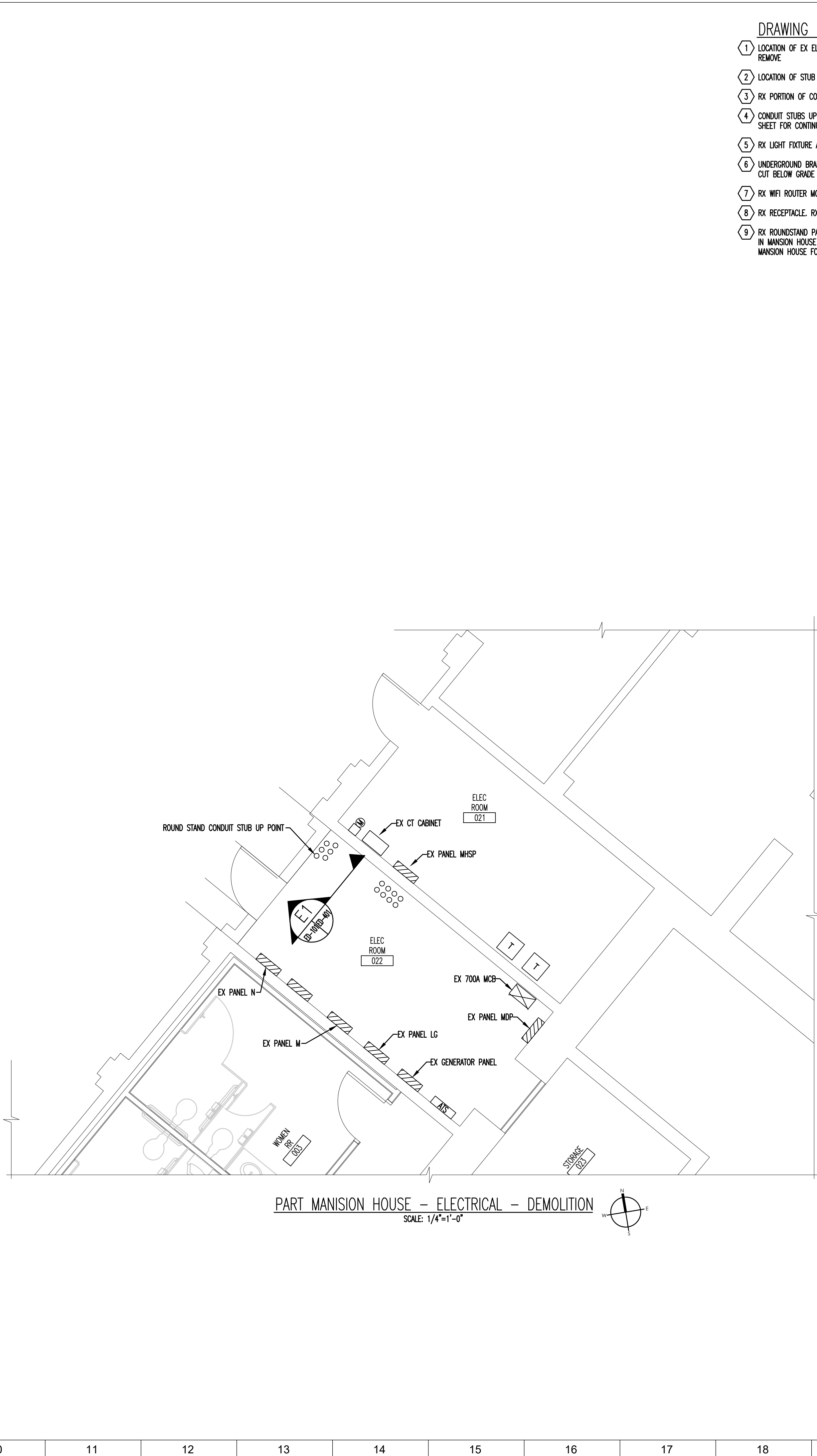
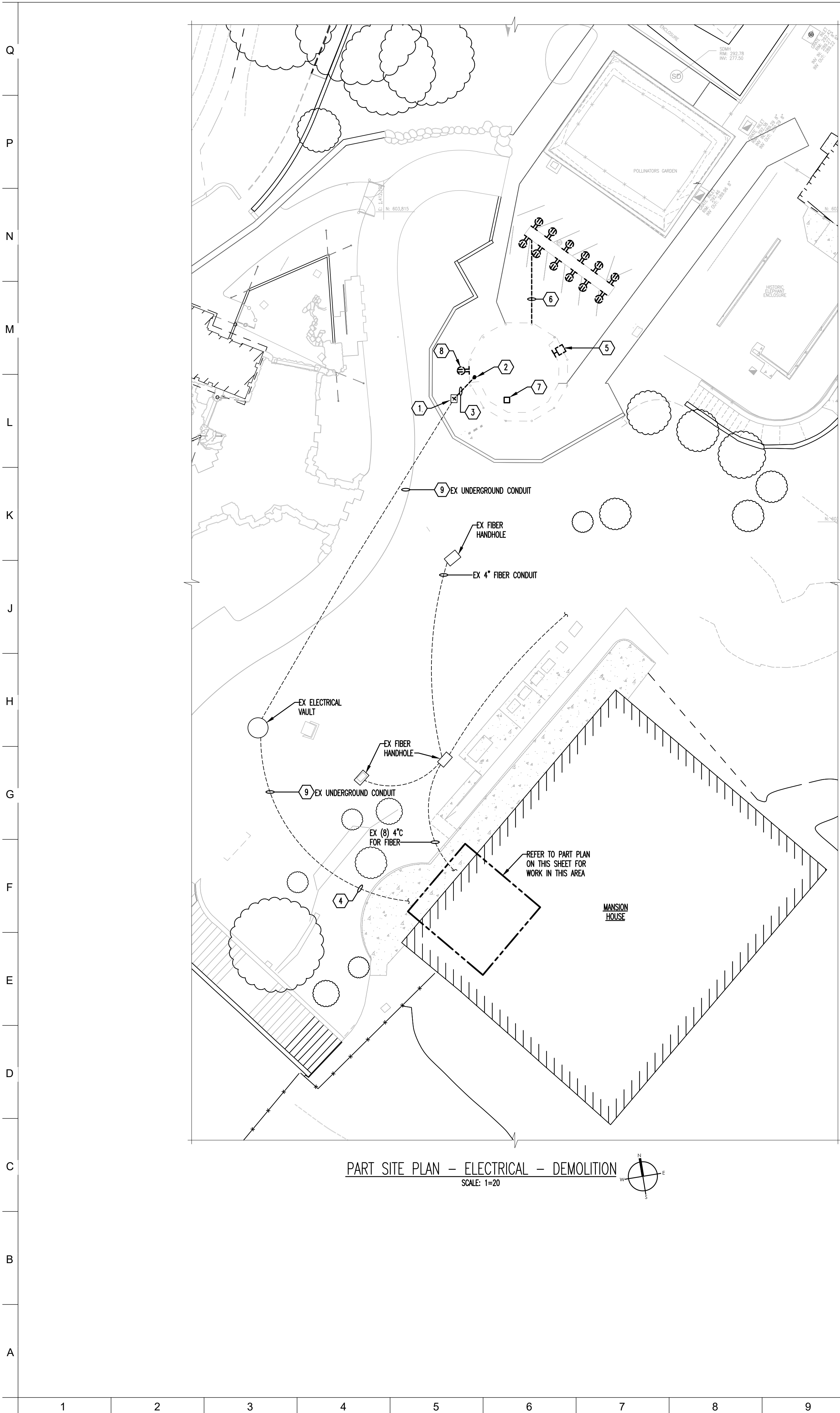


Professional Certification: "I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No.28573, Expiration Date: 07-23-2025."

DATE:	AUGUST 10, 2026
PROJECT NO:	2023-10.08
DRAWN BY:	KWA
CHECKED BY:	KWA
SUBMISSION:	DATE
BID SET:	08/10/2026
REVISION:	DATE

DRAWING TITLE:
FLOOR PLAN -
MECHANICAL/PLUMBING -
DEMOLITION

DRAWING NO:
MD-101



DRAWING NOTES:

- 1 LOCATION OF EX ELECTRIC HANDHOLE PROVIDED IN RED PANDA JOB. REMOVE.
- 2 LOCATION OF STUB UP POINT IN ROUND STAND BUILDING.
- 3 RX PORTION OF CONDUIT UP TO RETENTION POINT INDICATED ON DRAWING.
- 4 CONDUIT STUBS UP INTO ELECTRICAL CLOSET. REFER TO PART PLAN THIS SHEET FOR CONTINUATION OF RUN OF CONDUIT STUB UP POINT.
- 5 RX LIGHT FIXTURE AND ASSOCIATED CONTROLS.
- 6 UNDERGROUND BRANCH CIRCUIT WIRING TO BE REMOVED. CONDUIT TO BE CUT BELOW GRADE IN ROUNDSTAND BUILDING, ABANDONED AND CAPPED.
- 7 RX WIFI ROUTER MOUNTED ON ROOF OF BUILDING.
- 8 RX RECEPTACLE. RX BRANCH CIRCUIT WIRING.
- 9 RX ROUNDSTAND PANEL FEEDER BACK TO ROUNDSTAND CIRCUIT BREAKER IN MANSION HOUSE ELECTRICAL CLOSET. RETAIN CONDUIT BACK TO MANSION HOUSE FOR REUSE IN NEW WORK.



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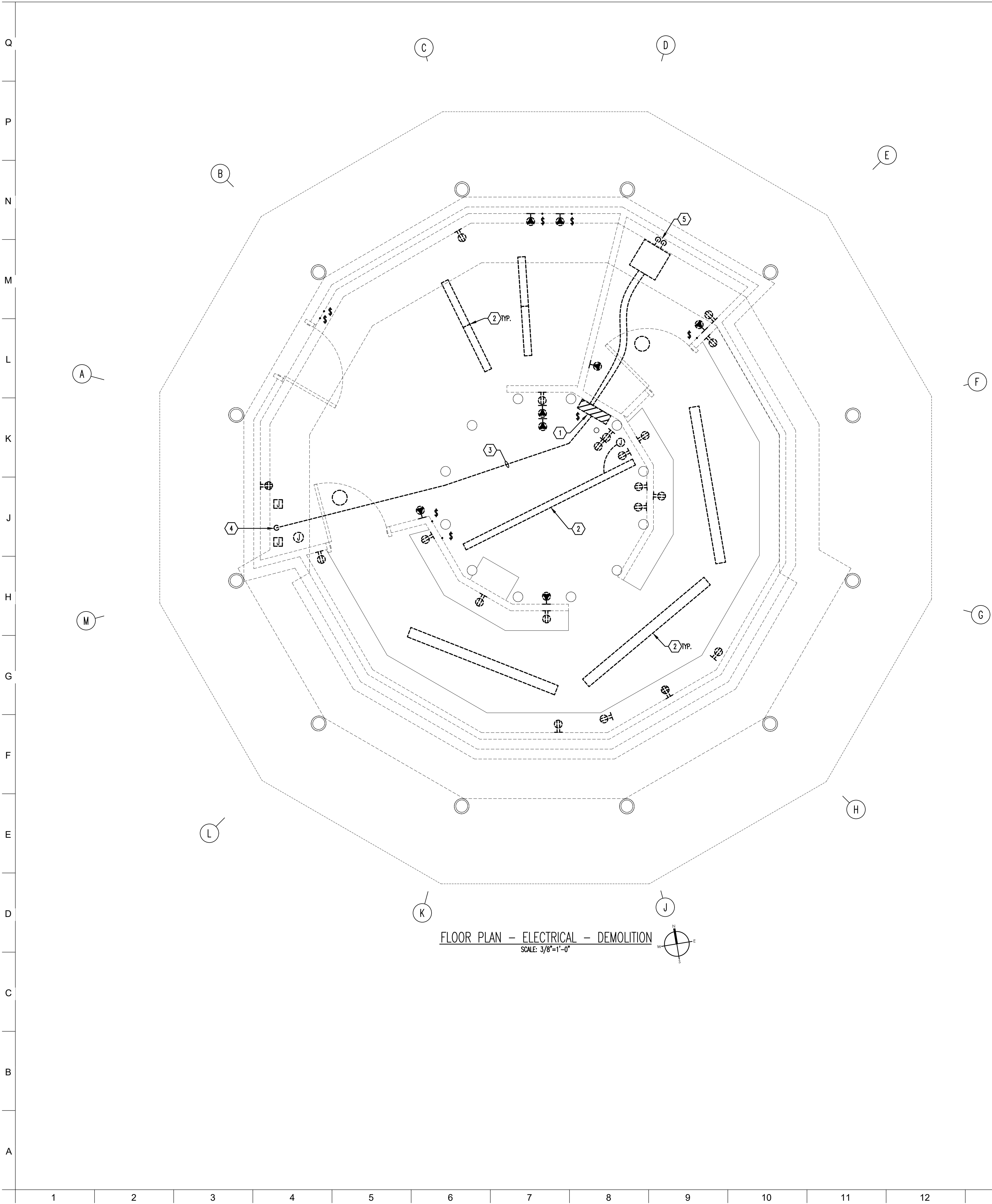
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DATE: AUGUST 10, 2026	
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DRAWN BY: KWA	
CHECKED BY: KWA	
SUBMISSION: DATE	
BID SET: 08/10/2026	
REVISION	DATE

DRAWING TITLE:
SITE PLAN AND
MANSION HOUSE PART
PLAN - ELECTRICAL -
DEMOLITION

DRAWING NO:

ED-101



DRAWING NOTES:

- 1 RX PANEL IN IT'S ENTIRETY SERVING ROUND STAND SPACE.
- 2 RX LIGHT FIXTURE. RX BRANCH CIRCUIT WIRING BACK TO SOURCE PANEL.
- 3 RX FEEDER WIRING AND CONDUIT TO STUB UP ON PLAN. RX JUNCTION BOX. CUT CONDUIT 2" FROM GRADE AND CAP.
- 4 LOCATION OF STUB UP.
- 5 RX PULLBOX, CONDUIT AND WRING IN ENTIRETY.



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SUBMISSION	DATE
BID SET	08/10/2026

REVISION	DATE

DRAWING TITLE:
FLOOR PLAN -
ELECTRICAL -
DEMOLITION

DRAWING NO:
ED-102

[illegible]

N1	DOOR SCHEDULE
NTS	

The drawings show three types of door and window openings:

- DOOR TYPE A:** A door with a width of 3'-0" and a height of 7'-2". The door is set within a frame opening that is 3'-0" wide and 7'-2" high. The door itself is 2'-6" high and 2'-0" wide. A dashed line indicates the door's swing. The label "WDW LITE" points to a small window in the upper part of the door. The "FINISH FLOOR" is indicated at the base.
- DOOR TYPE B:** A door with a width of 3'-0" and a height of 7'-2". The door is set within a frame opening that is 3'-0" wide and 7'-2" high. The "FINISH FLOOR" is indicated at the base.
- FRAME TYPE 1:** A frame with a width of 3'-4" and a height of 7'-2". The frame is set within a rough opening that is 3'-4" wide and 7'-2" high. The "FINISH FLOOR" is indicated at the base.

K1	DOOR AND FRAME TYPES
1/4"=1'-0"	

PAINT LOCATION REFERENCE					
Last painted 2021					
EXTERIOR	Location	Description	Paint #	Rev1 Sheen	Notes
	Columns				
		Abacus, Shaft	P5	Semi-Gloss	Metal-Must use rust inhibitive primer & Alkyd paint
		Capital	P2	Semi-Gloss	Metal-Must use rust inhibitive primer & Alkyd paint
		Upper column	P1	Satin	Metal-Must use rust inhibitive primer & Alkyd paint
		Chamfer	P5	Satin	Metal-Must use rust inhibitive primer & Alkyd paint
	Main Roof				
		Crown molding	P9	Satin	
		Ceilings	P1	Satin	
	Beam				
		Beam	P1	Satin	
		Beam-Upper Section Exterior	P4	Satin	SEE REF IMAGES FOR EXACT LOCATION
		Chamfer	P5	Satin	
	Outriggers				
		Outrigger	P6	Satin	
		Chamfer	P9	Satin	
	Outrigger Bracket				
		Bracket	P1	Satin	
		Chamfer	P5	Satin	
		Pierced panel	P8	Satin	
	Beam Bracket				
		Bracket	P1	Satin	
		Chamfer	P1	Satin	
		Pierced panel	P8	Satin	
	Upper Roof				
		Crown molding	P3	Satin	
		Fascia	P2	Satin	
		Ceiling/rafters/freeze bd	P7	Satin	
		Siding	P1	Satin	
		Window jambs	P5	Satin	Just inside edge of opening
		Window plywood inserts	P5	Satin	
	Main Body				
		Siding	P1	Satin	
		Doors	P1	Satin	
		Windows	P1	Satin	
		Brick Base	P1	Satin	

D	D1	EXG PAINT SCHEDULE
	NTS	

F									
ROOM		FLOOR		WALLS					
NO.	NAME	BASE	FINISH	NORTH MATERIAL	FINISH	EAST MATERIAL	FINISH	SOUTH MATERIAL	
A101	FOOD PREP	EPOXY	EPOXY	GWB	FRP GLAZING	GWB	FRP GLAZING	GWB	
A102	FOOD SERVICE	EPOXY	EPOXY	ALUM. STOREFRONT SYSTEM		ALUM. STOREFRONT SYSTEM		EXG INTERIOR COLUMN	
A103	FOOD PANTRY	EPOXY	EPOXY	EXG INTERIOR COLUMNS	PNT*	EXG INTERIOR COLUMNS	PNT*	GWB	
A104	MECH	EPOXY	EPOXY	GWB	PNT	GWB	PNT	GWB	

PNT* - MATCH EXISTING PAINT [SEE EXG PAINT SCHEDULE, EXG PAINT SPECS, AND REF. IMAGES]. REPAINT EXISTING HISTORIC STRUCTURAL EXTERIOR AND INTERIOR COMPONENTS, AND EXISTING BEADBOARD. NEW BEAD BOARD TO MATCH EXG BEADBOARD. GC TO VERIFY AND COORDINATE WITH EXISTING IN FIELD.

SEE SPECS, ELEVATIONS, AND WALL SECTIONS FOR ADDITIONAL MATERIAL FINISH INFORMATION

A	A1	FINISH SCHEDULE							
	NTS								
	1	2	3	4	5	6	7	8	9

NEW DOOR HARDWARE MATRIX									
DOOR #	CONT. HINGE	MECH LOCK	EXIT DEVICE	CYLINDER	CLOSER	GASKETING	THRESHOLD	KICK PLATE	SWEEP
A101	X		X	X	X	X	X	X (1)	X
A104	X	X (D)		X	X	X	X	X (1)	X

NOTE: REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

N10	DOOR HARDWARE SCHEDULE
NTS	

PAINT SPECIFICATIONS					
SELECTIONS: PAINT IS TO BY MFG SELECTED. NO SUBSTITUTIONS.					
PAINT	Manufacturer	Name	Number	Type	Product
P1	Ben Moore	Sandlot Gray	BM 2107-50	Acrylic/Alkyd	Aura/Corotech Alkyd Enamel
P2	Ben Moore	Driftwood	BM 2107-40	Acrylic/Alkyd	Aura/Corotech Alkyd Enamel
P3	Ben Moore	Rockies Brown	BM 2107-30	Acrylic	Aura
P4	Ben Moore	Stone	BM 2112-40	Acrylic	Aura
P5	Ben Moore	Hearth Red	BM 1295	Acrylic/Alkyd	Aura/Corotech Alkyd Enamel
P6	Ben Moore	Van Buren Brown	BM HC-70	Acrylic	Aura
P7	Ben Moore	Crestwood Tan	BM 116	Acrylic	Aura
P8	Ben Moore	Palace Green	BM CW-520	Acrylic	Aura
P9	Ben Moore	Nile Blue	BM CSP-560	Acrylic	Aura

K10	EXG PAINT SPECIFICATION
NTS	

The figure consists of three photographs of the 'Casa del Capitano' in Palermo, with labeled points of interest (P1 through P9) indicating specific architectural features.

- Top Left Photograph:** Shows the exterior corner of the building. Labeled points include:
 - P1: The corner of the building.
 - P2: The base of the red column.
 - P3: The red column.
 - P4: The decorative element above the column.
 - P5: The decorative element above the column.
 - P6: The decorative element above the column.
 - P7: The decorative element above the column.
 - P8: The decorative element above the column.
 - P9: The decorative element above the column.
- Top Right Photograph:** Shows the exterior facade of the building. Labeled points include:
 - P1: The decorative element above the column.
 - P2: The decorative element above the column.
 - P3: The decorative element above the column.
 - P4: The decorative element above the column.
 - P5: The decorative element above the column.
 - P6: The decorative element above the column.
 - P7: The decorative element above the column.
 - P8: The decorative element above the column.
 - P9: The decorative element above the column.
- Bottom Photograph:** Shows the interior of the building, featuring a large dome. Labeled points include:
 - P1: The dome.
 - P2: The dome.
 - P3: The dome.
 - P4: The dome.
 - P5: The dome.
 - P6: The dome.
 - P7: The dome.
 - P8: The dome.
 - P9: The dome.

D10	EXG PAINT LOCATION REFERENCE IMAGES
NTS	

FINISH SCHEDULE						
			CEILING			
	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	NOTES
MNS	FRP	GWB	FRP	EXG BEAD BOARD & PLY PANELS; SEE RCP	PNT*	SEE EXTERIOR ELEVATION FOR STOREFRONT GLAZING INFORMATION
	PNT*	ALUM. STOREFRONT SYSTEM	GLAZING	NEW & EXG BEAD BOARD; SEE RCP	PNT*	
	FRP	EXG INTERIOR COLUMNS	PNT*	OPEN TO STRUCTURE ABOVE		
	PNT	GWB	PNT	EXG BEAD BOARD; SEE RCP	PNT*	



CLIENT:

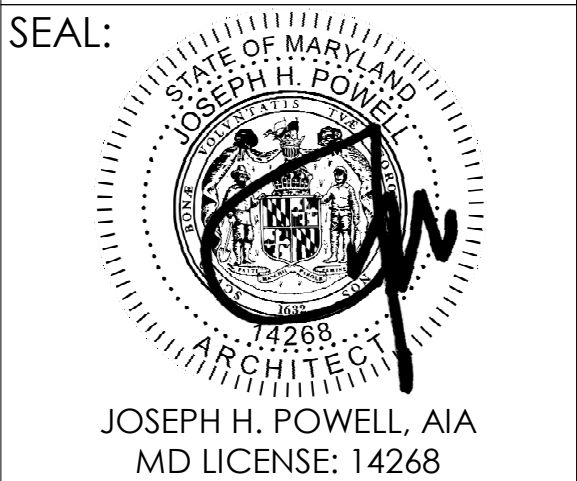
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CHECKED BY	Checker
SUBMISSION	DATE
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DRAWING TITLE:
TYPES AND SCHEDULES

DRAWING NO:
A001

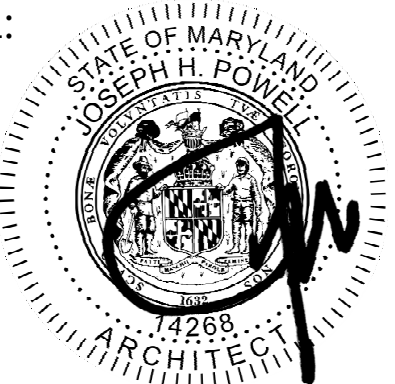


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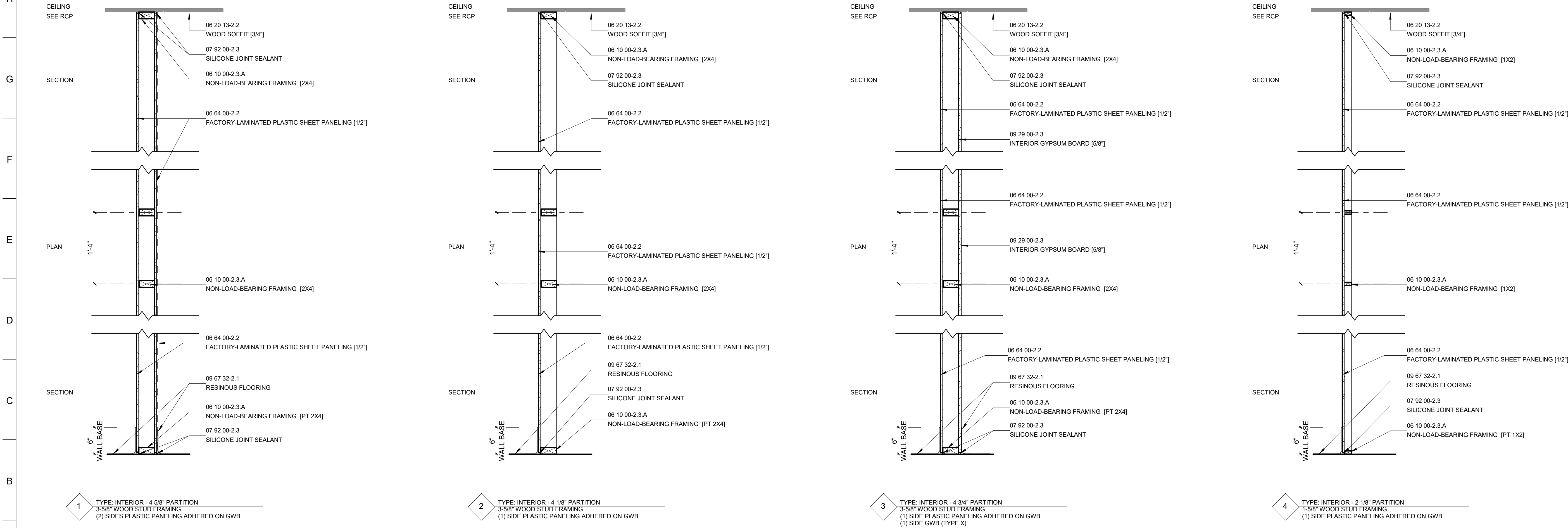
JOSEPH H. POWELL, AIA
MD LICENSE: 14268

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DRAWING TITLE:
WALL TYPES

DRAWING NO:

A002



A1	PARTITION TYPES
----	-----------------

1" = 1'-0"

1

2

3

5

6

7

8

9

10

11

12

13

14

15

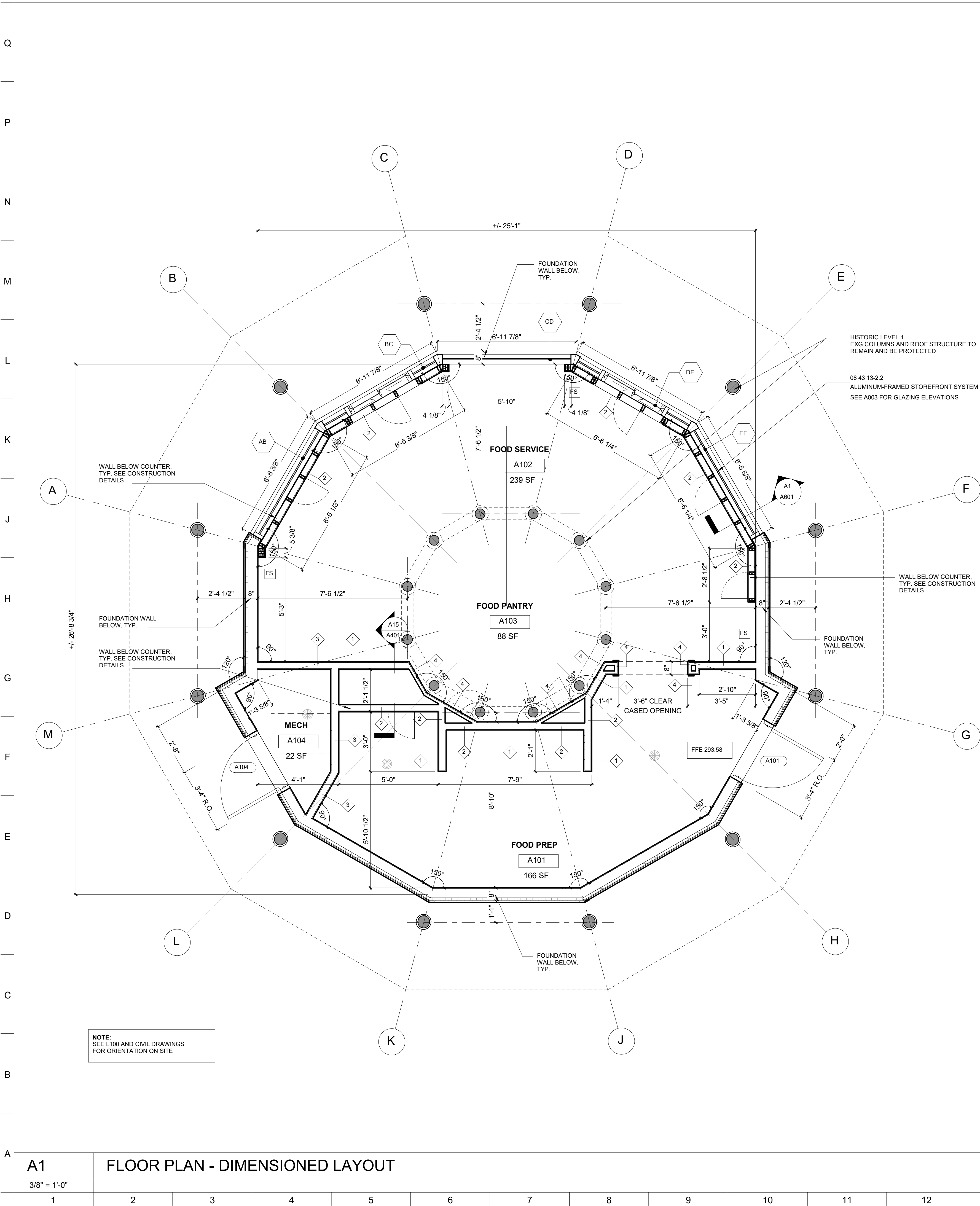
16

17

18

19

20



GENERAL NOTES

1. CODE

A. ALL NEW CONSTRUCTION SHALL CONFORM WITH THE PROVISIONS OF THE 2021 IBC CODE AND BALTIMORE CITY SUPPLEMENT

2. DESIGN LOADING

A. THE DESIGN LIVE LOAD IS AS FOLLOWS:

WIND LOAD
RISK CATEGORY II
DESIGN WIND SPEED 120 MPH
EXPOSURE B

3. GENERAL

A. THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS OF EXISTING WORK PRIOR TO FABRICATION OF ANY NEW MATERIALS.

B. THE CONTRACTOR IS ADVISED THAT ALL PLANS, DIMENSIONS, AND DETAILS DEPICT FIELD CONDITION AS SHOWN. MINOR VARIATIONS ARE TO BE EXPECTED AND ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE APPROVED BY THE ARCHITECT IN WRITING PRIOR TO PROCEEDING.

C. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE THE EXISTING BUILDING DURING THE COURSE OF CONSTRUCTION AND IMMEDIATELY ADVISE THE ARCHITECT OF ANY AREAS WHERE THE STRUCTURE EXHIBITS DISTRESS OR FAILURE.

D. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE LOCATION OF ANY UTILITIES IN THE IMMEDIATE VICINITY OF CONSTRUCTION SO AS TO PREVENT DAMAGE TO THEM. SHOULD ANY DAMAGE TO SUCH UTILITIES OCCUR THE CONTRACTOR SHALL BE REQUIRED TO REPAIR SUCH DAMAGE AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER.

E. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

F. ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE WITH THE BUILDING CODE AND ALL LOCAL ORDINANCES. THE CONTRACTOR SHALL HIRE AN EXPERIENCED, QUALIFIED INSPECTOR TO PERFORM ALL THE REQUIRED INSPECTION WORK. THE ENGINEER WILL NOT PERFORM THE REQUIRED INSPECTION AS A PART OF THEIR DESIGN SERVICES. THE ENGINEER MAY VISIT THE SITE TO ASCERTAIN GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. SUCH SITE VISITS ARE NOT TO BE CONSTRUED AS MEETING ANY INSPECTION REQUIREMENTS UNLESS THE ENGINEER SPECIFICALLY SO STATES IN WRITING.

G. CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS PRIOR TO BIDDING THE PROJECT. DISCREPANCIES IN CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.

4. FOUNDATIONS

A. ALL SPREAD FOOTINGS HAVE BEEN DESIGNED FOR AN ASSUMED ALLOWABLE NET SOIL BEARING PRESSURE OF 2000 PSF. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ASSUMED SOIL BEARING PRESSURE. SHOULD THE SOIL BEARING PRESSURE BE FOUND LESS THAN 2000 PSF. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT.

B. ALL FILL UNDER NEW FOOTINGS AND SLAB SHALL BE COMPACTED TO A DRY DENSITY OF AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASSHTO T-180 (ASTM D-1557)

5. CAST-IN-PLACE CONCRETE GENERAL CONSTRUCTION

A. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST APPROVED (BY LOCAL GOVERNMENT) EDITIONS OF THE FOLLOWING A.C.I. AND A.S.T.M. DOCUMENTS:
- ACI-301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
- ACI-302.1R FLOOR AND SLAB CONSTRUCTION
- ACI-318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
- ACI-214 COMPRESSION TESTS
- ACI-308 COLD WEATHER
- ACI-315 DETAILING
- ACI-347 FORMWORK
- ACI-305 HOT WEATHER
- ACI-211 PROPORTIONS OF CONCRETE
- ACI-304 PLACING CONCRETE
- ASTM C94 READY-MIX CONCRETE

B. ALL CONCRETE, UNLESS NOTED OTHERWISE, SHALL BE STONE AGGREGATE CONCRETE HAVING THE FOLLOWING PROPERTIES:
- MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAY
- MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO: 0.45
- SLUMP LIMIT: 4 INCHES PLUS OR MINUS 1 INCH.
- AIR CONTENT: FOR CONCRETE EXPOSED TO WEATHER, 6 PERCENT, PLUS OR MINUS 1.5 PERCENT AT POINT OF DELIVERY FOR 1- INCH NOMINAL MAXIMUM AGGREGATE SIZE.

C. ALL CONCRETE MIX DESIGNS AND ADMIXTURES SHALL BE APPROVED BY THE ENGINEER 30 DAYS PRIOR TO INITIATION OF FIRST POUR.

D. ALL REINFORCING BARS SHALL CONFORM TO ASTM A-615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, FLAT SHEETS.

E. ALL CONCRETE SHALL BE SAMPLED AND TESTED BY AN AGENCY RETAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE TESTING AGENCY 48 HOURS PRIOR TO THE POURING OF ANY CONCRETE.

F. CONCRETE EXPOSED TO PUBLIC VIEW SHALL MEET THE REQUIREMENTS FOR ARCHITECTURAL CONCRETE OF ACI 301.

G. ALL FORMWORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE "FORMWORK FOR CONCRETE", SPECIAL PUBLICATION NO. 4 AND ACTS "STANDARD RECOMMENDED PRACTICE FOR CONCRETE FORMWORK" (ACI-347, LATEST LOCAL APPROVED EDITION).

H. TESTING FREQUENCY: OBTAIN ONE COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE EXCEEDING 5 CU. YD., BUT LESS THAN 25 CU. YD. PLUS ONE SET OF EACH ADDITIONAL 50 CU. YD. OR FRACTION THEREOF.

I. CAST AND LABORATORY CURE TWO SETS OF TWO STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.

J. CAST AND FIELD CURE TWO SETS OF TWO STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.

K. COMPRESSIVE STRENGTH TESTS: ASTM C39/C 39M; TEST ONE SET OF TWO LABORATORY CURED SPECIMENS AT 7 DAYS AND ONE SET OF TWO SPECIMENS AT 28 DAYS.

L. TEST ONE SET OF TWO FIELD-CURED SPECIMENS AT 7 DAYS AND ONE SET OF TWO SPECIMENS AT 28 DAYS.

M. A COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM A SET OF TWO SPECIMENS OBTAINED FROM SAME COMPOSITE SAMPLE AND TESTED AT AGE INDICATED.

N. STEEL REINFORCING SHOP DRAWINGS: PLACING DRAWINGS THAT DETAIL FABRICATION, BENDING, AND PLACEMENT. INCLUDE BAR SIZES, LENGTHS, MATERIAL, GRADE, BAR SCHEDULES, BAR ARRANGEMENT, SPLICES, AND LAPS AND SUPPORTS FOR CONCRETE REINFORCEMENT. SHOP AND ERECTION DRAWINGS SHALL NOT BE REPRINTS OF THE CONSTRUCTION DRAWINGS NOR SHALL THEY REFERENCE THE CONSTRUCTION IN LIEU OF INDICATING THE REQUIRED INFORMATION. THEY SHALL, IN THE OPINION OF THE ENGINEER, BE COMPLETE IN ALL DETAILS AND SHALL ACCURATELY INDICATE THE LOCATION OF ALL CAST-IN-PLACE WORK AND CLEARLY INDICATE ALL DIMENSIONS, REINFORCING DETAILS, ELEVATIONS, MEMBER SIZES, CLEARANCES AND ALL APPURTENANCES AND DETAILS IN CONJUNCTION WITH THIS WORK. FIGURED DIMENSIONS ONLY SHALL BE USED; SCALING DRAWINGS IS NOT PERMITTED.

O. CONTRACTOR SHALL ENGAGE AN INDEPENDENT AGENCY TO INSPECT ALL CONCRETE AND STEEL REINFORCING PLACEMENT.

6. WOOD FRAMING

A. WOOD MEMBERS SHALL BE SURFACED DRY AT A MAXIMUM OF 19% MOISTURE CONTENT. ALL FABRICATION, ERECTION, OTHER PROCEDURES, AND MINIMUM UNIT STRESSES SHALL CONFORM TO THE CURRENT "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION".

B. ALL WOOD FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION SPECIFICATION AITC 105 "RECOMMENDED PRACTICE FOR THE ERECTION OF STRUCTURAL TIMBER FRAMING, AITC 108 "CODE OF STANDARD PRACTICE", AND "THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", LATEST EDITION, AS PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.

C. ALL STEEL TIMBER FASTENINGS SHALL BE A MINIMUM OF 16 GA. GALVANIZED STEEL WITH A RATED LOAD CAPACITY EQUAL TO OR EXCEEDING THE IMPOSED LOADING REQUIREMENTS.

D. ALL SAWN LUMBER SHALL BE SPRUCE-PINE-FIR SELECT STRUCTURAL LUMBER OR BETTER (UNO) (19% MAX. IN-USE MOISTURE CONTENT), MEETING THE FOLLOWING MINIMUM DESIGN VALUES, UNO:
• Fb= 1250 PSI
• Fv= 140 PSI



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MARYLAND ZOO
THE MARYLAND ZOO IN BALTIMORE
1 SAFARI PLACE
BALTIMORE, MD 21217

ROUND STAND CAFE
THE MARYLAND ZOO
IN BALTIMORE
1876 MANSION HOUSE DRIVE
BALTIMORE, MD 21217

THIS DRAWING IS TO ILLUSTRATE THE WORK TO BE DONE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES USED TO DO THE WORK OR THE SAFETY ASPECTS OF CONSTRUCTION, AND NOTHING ON THIS DRAWING EXPRESSED OR IMPLIED CHANGES THIS CONDITION. CONTRACTOR SHALL BE RESPONSIBLE FOR KNOWING HOW THEY AFFECT THE WORK. SUBMITAL OF A BID TO PERFORM THIS WORK IS AN ACKNOWLEDGMENT OF THESE RESPONSIBILITIES AND THAT THEY HAVE BEEN FULLY CONSIDERED IN PLANNING OF THE WORK, AND THE BID PRICE, NO CLAIMS FOR EXTRA CHARGES DUE TO THESE CONDITIONS WILL BE FORTHCOMING.

SEAL:

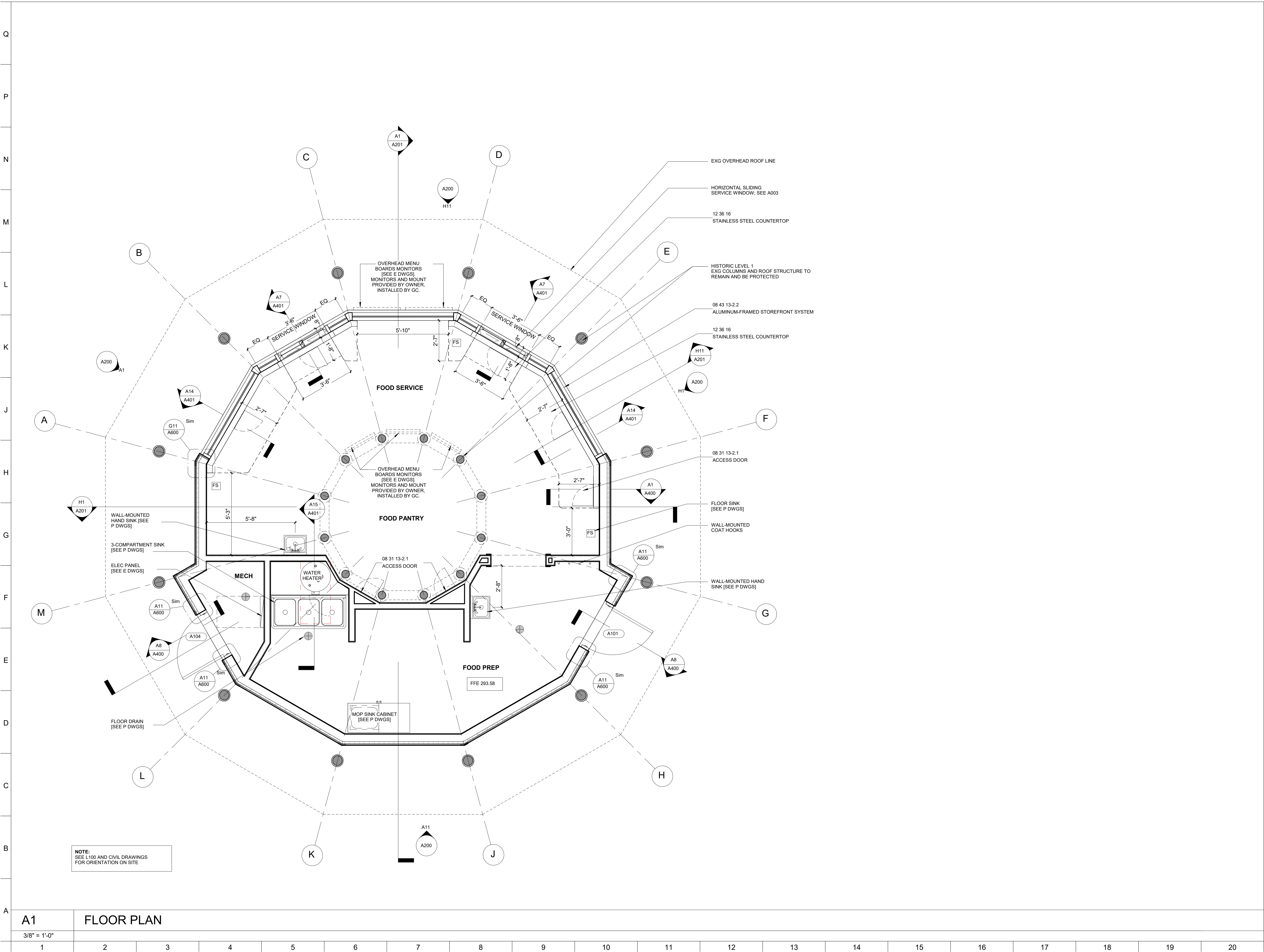


JOSEPH H. POWELL, AIA
MD LICENSE: 14268

DATE: August 10, 2026	
PROJECT NO: 2023-10.08	
DRAWN BY	Author
CHECKED BY	Checker
SUBMISSION	DATE
BID SET	08/10/2026
REVISION	DATE

DRAWING TITLE:
FLOOR PLAN -
DIMENSIONED LAYOUT

DRAWING NO:
A101



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MARYLAND ZOO

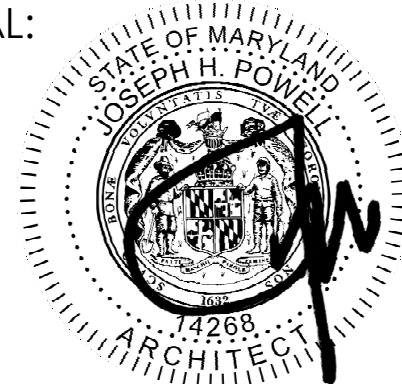
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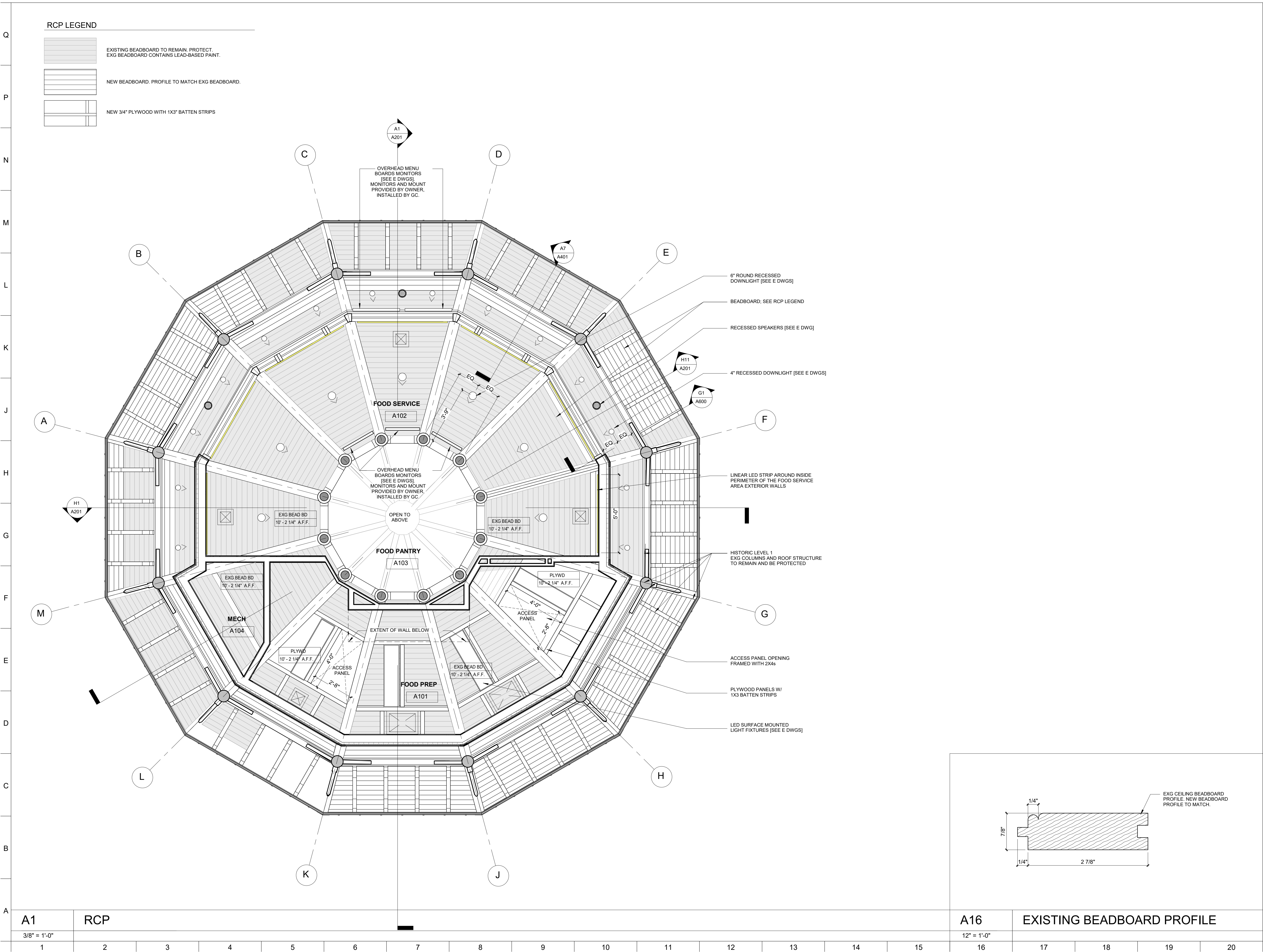
DATE

DRAWING TITLE:

FLOOR PLAN

DRAWING NO:

A102



BKP

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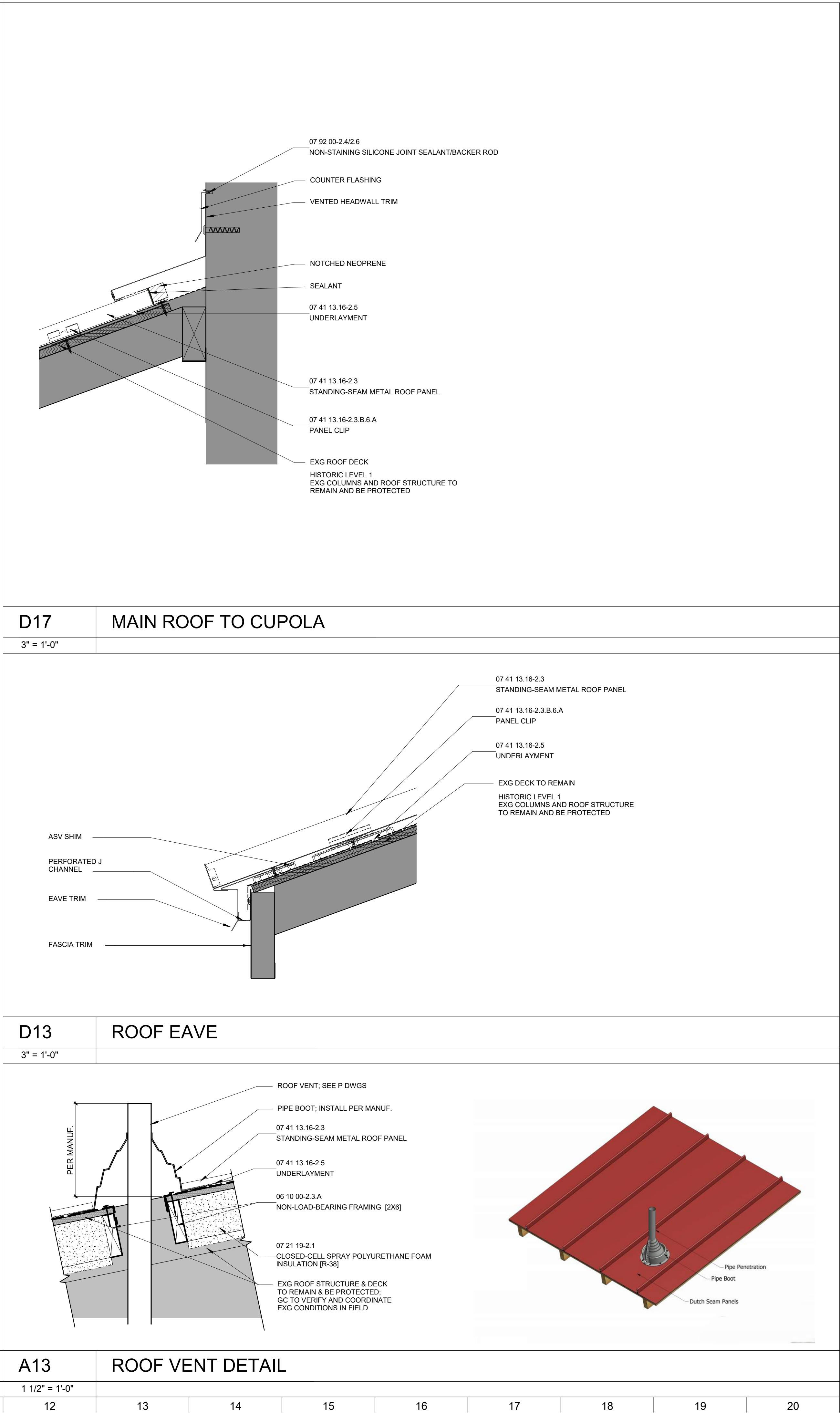
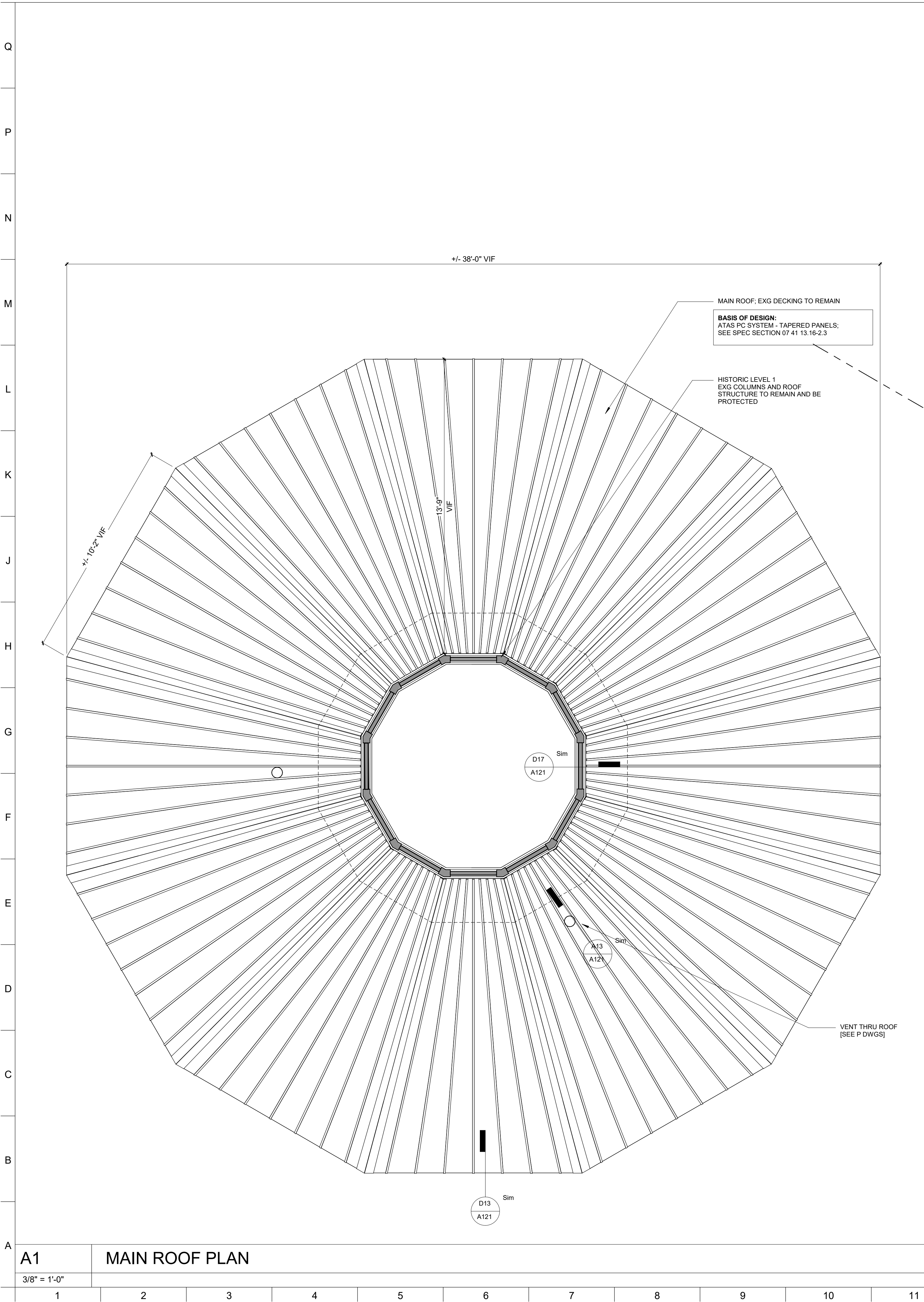
STATE OF MARYLAND
JOSEPH H. POWELL
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DRAWING TITLE:
RCP

DRAWING NO:
A111



BKP

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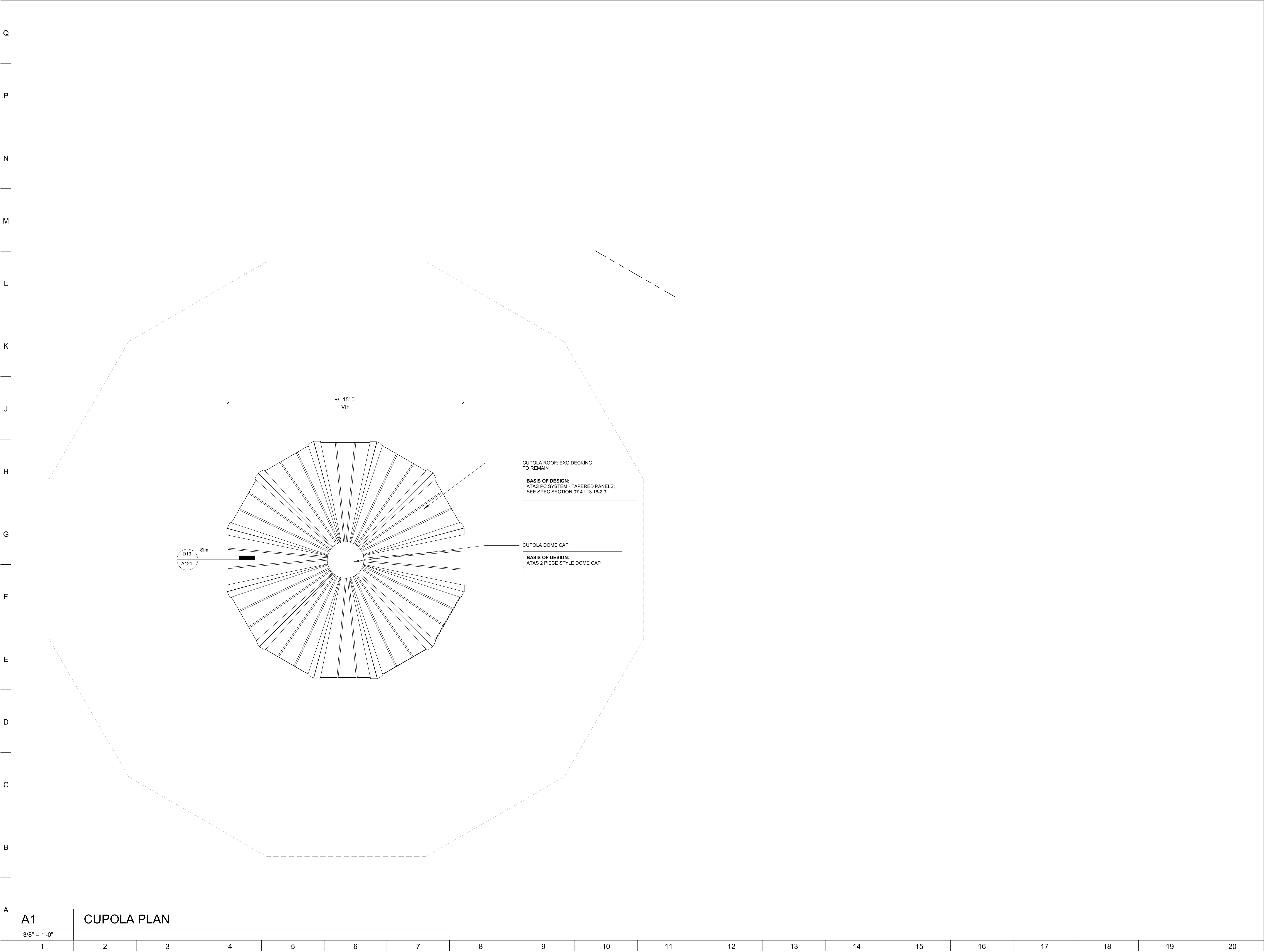
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DRAWING TITLE:

ROOF PLAN

DRAWING NO:

A121



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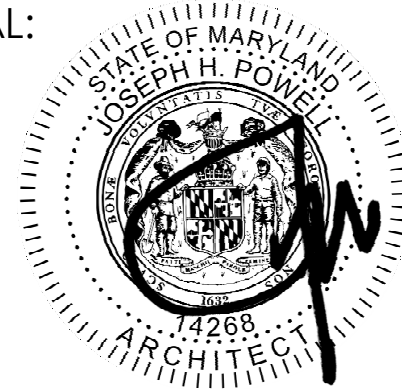
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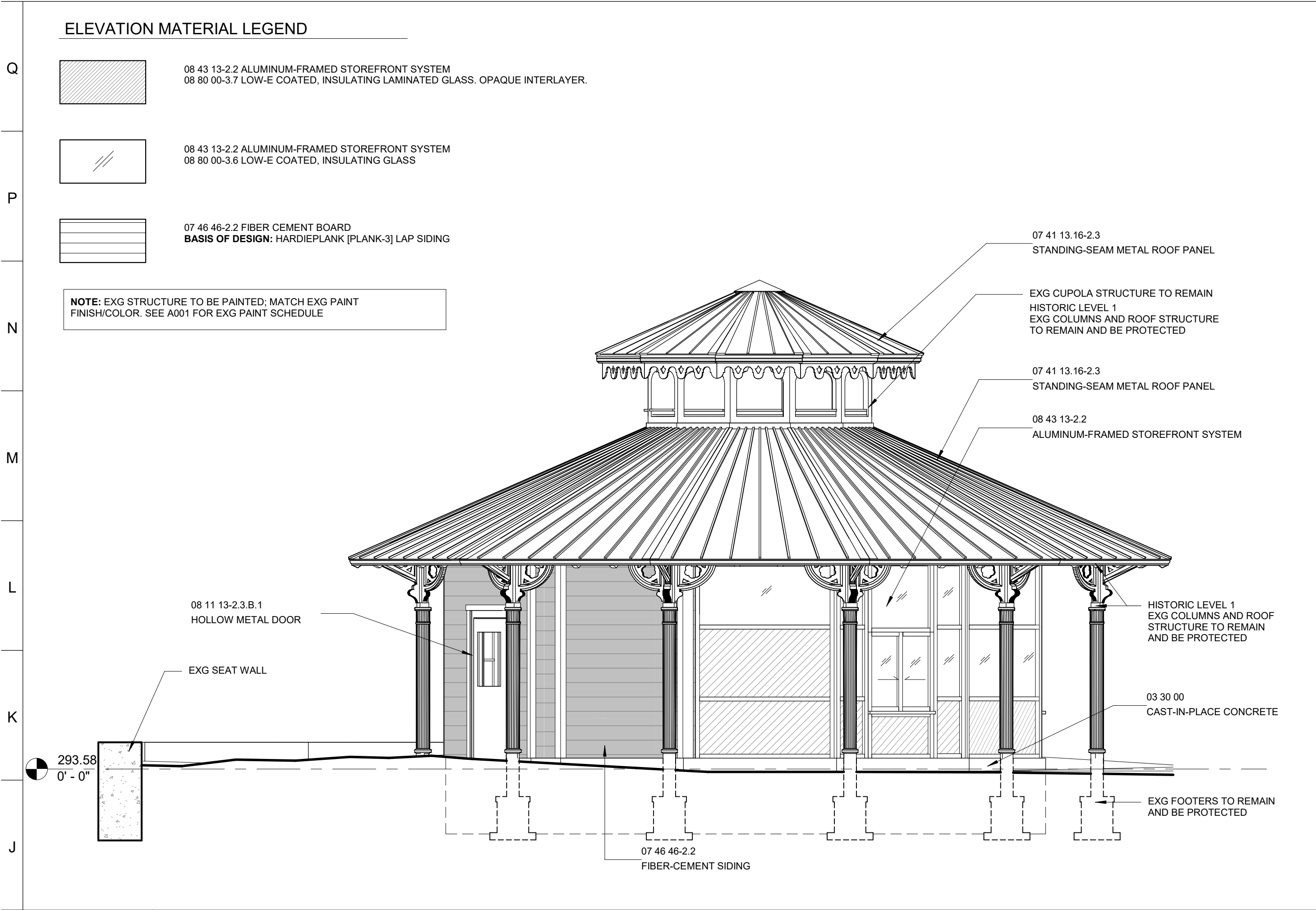
REVISION DATE

DRAWING TITLE:

CUPOLA PLAN

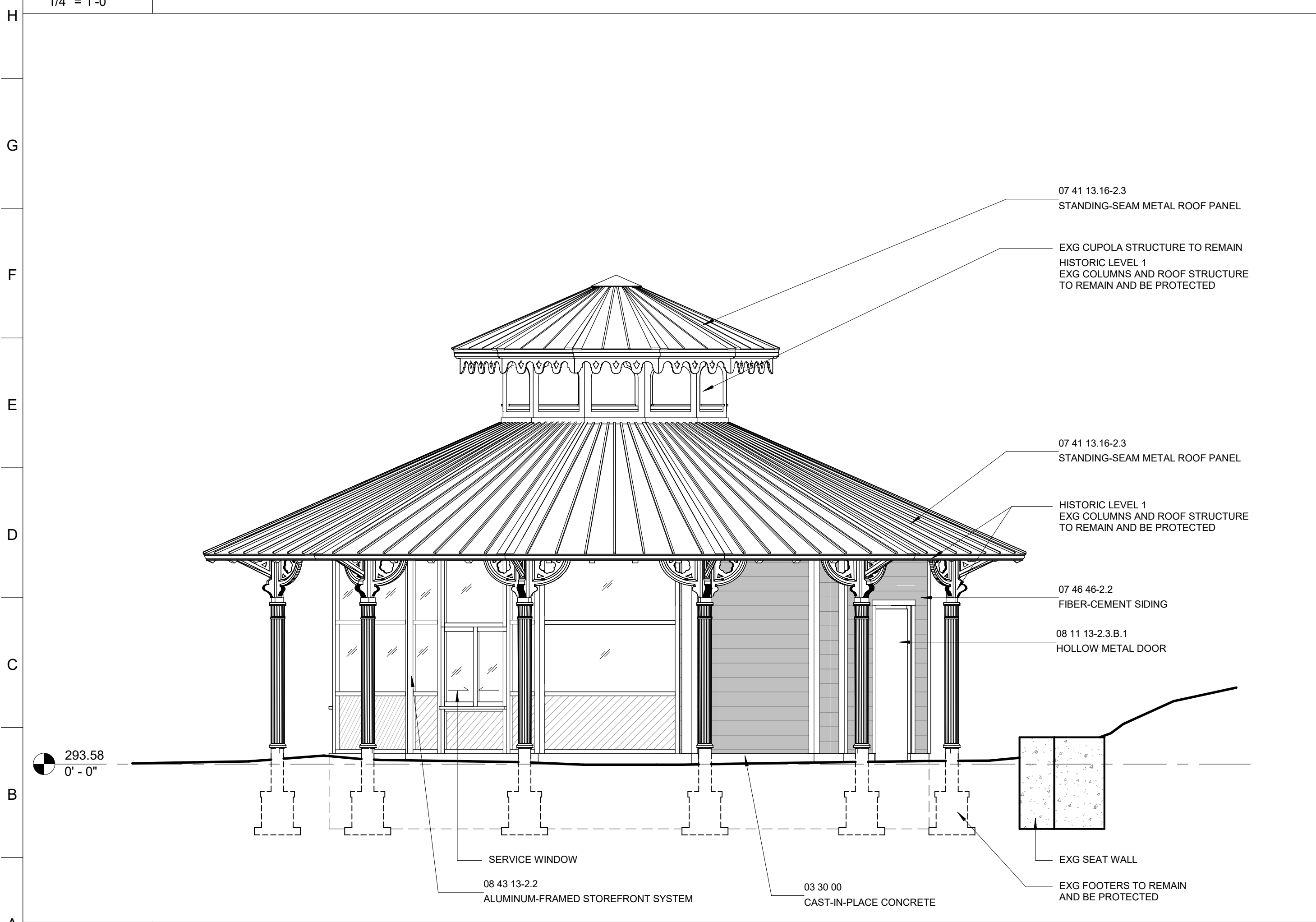
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A122



H1 EAST ELEVATION

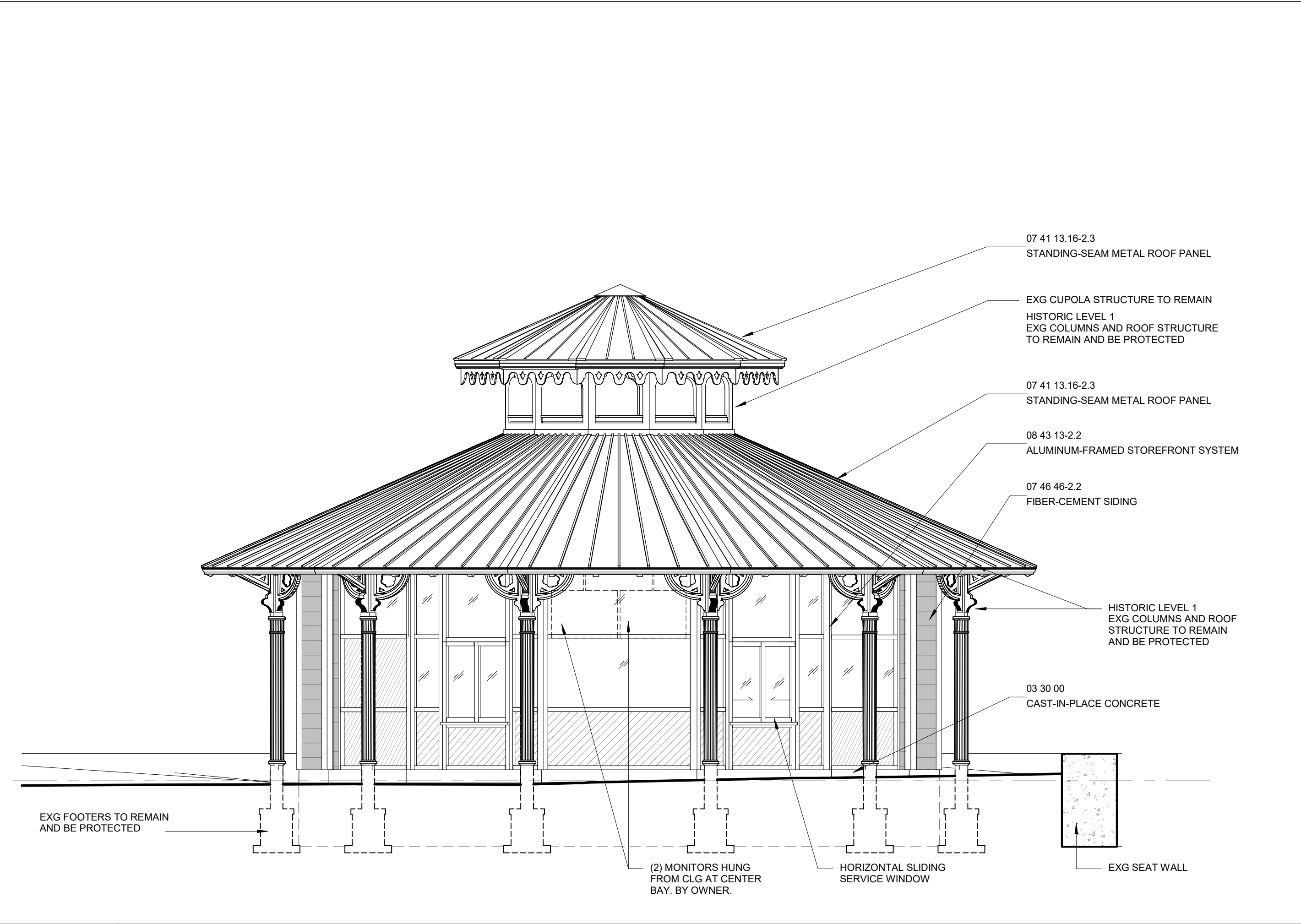
1/4" = 1'-0"



A1 WEST ELEVATION

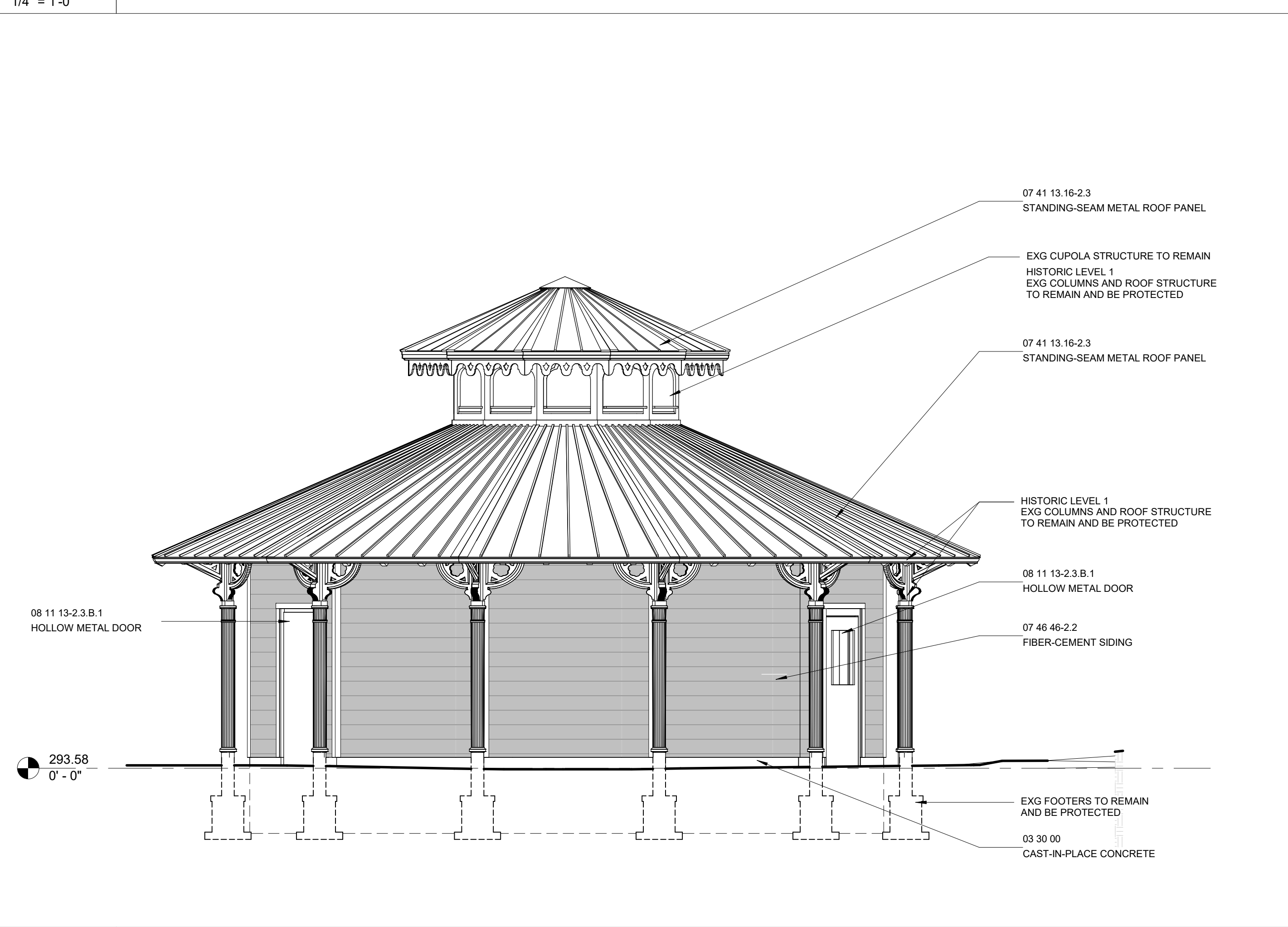
1/4" = 1'-0"

1 2 3 4 5 6 7 8 9 10



H11 NORTH ELEVATION

1/4" = 1'-0"



A11 SOUTH ELEVATION

1/4" = 1'-0"

11 12 13 14 15 16 17 18 19 20



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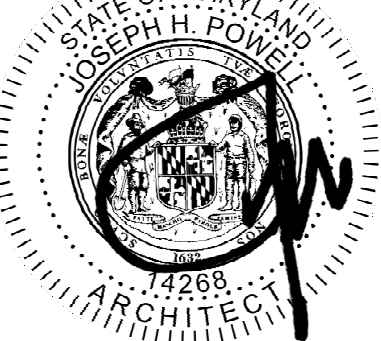
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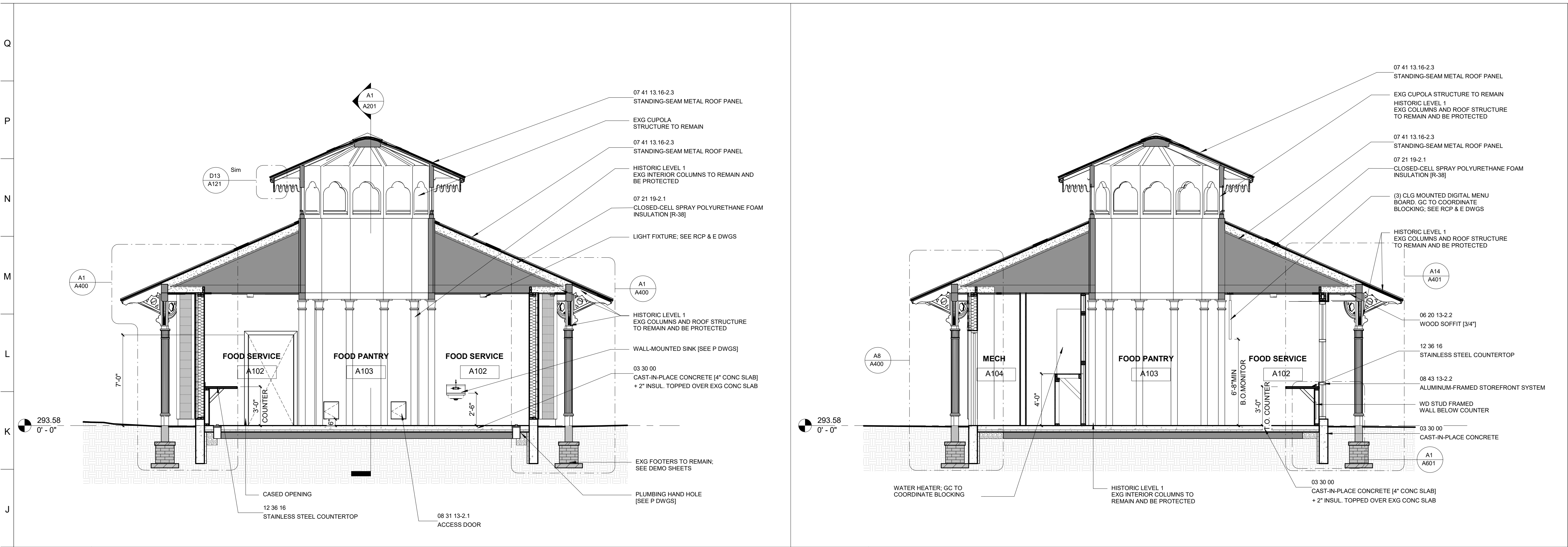
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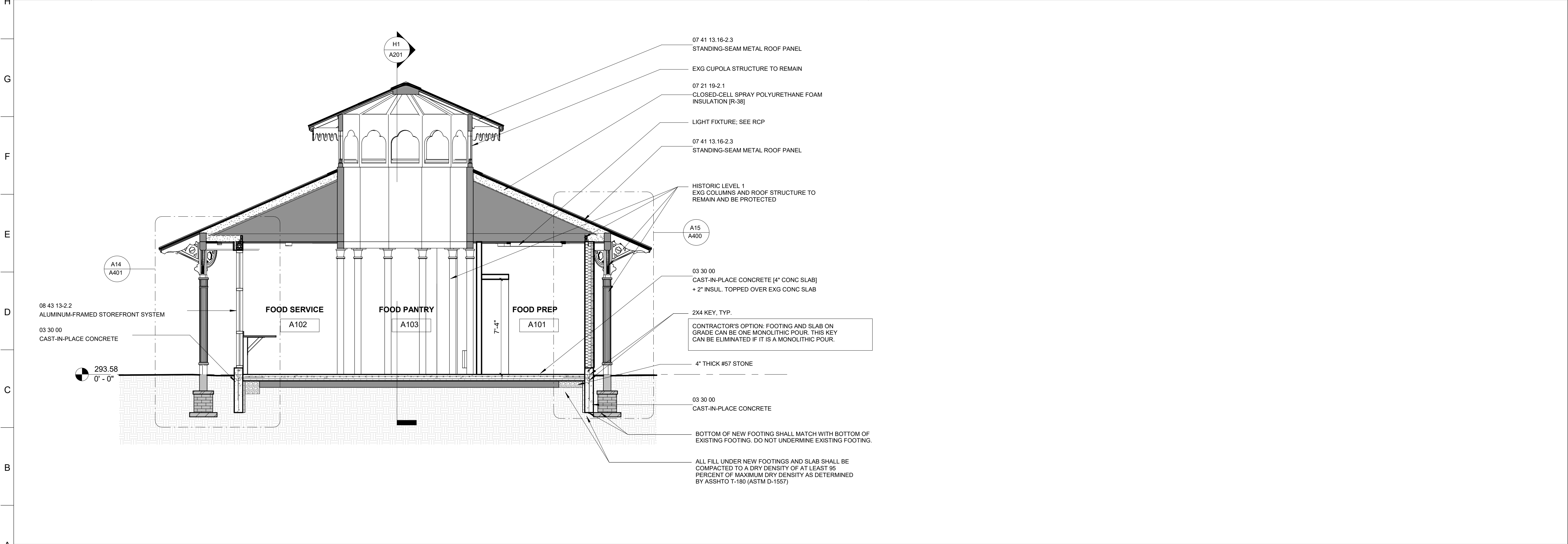
ELEVATIONS

DRAWING NO:

A200



H1	SECTION 1	H11	SECTION 2
1/4" = 1'-0"		1/4" = 1'-0"	



A1	SECTION 3
1/4" = 1'-0"	



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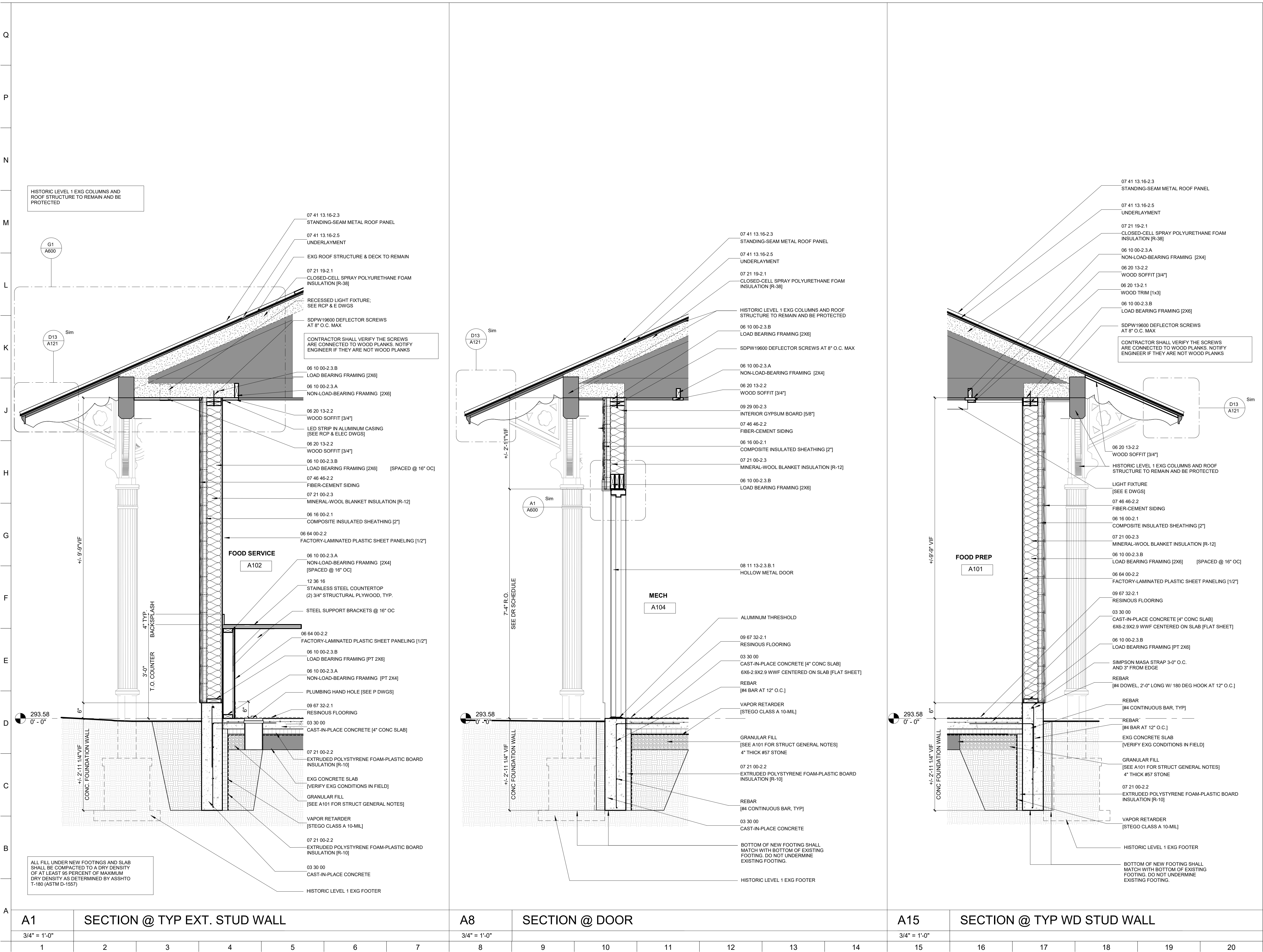
JOSEPH H. POWELL, AIA
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DRAWING TITLE:
BUILDING SECTIONS

DRAWING NO:
A201



BKP

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MD LICENSE: 14268

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PROJECT NO: 2023-10.08

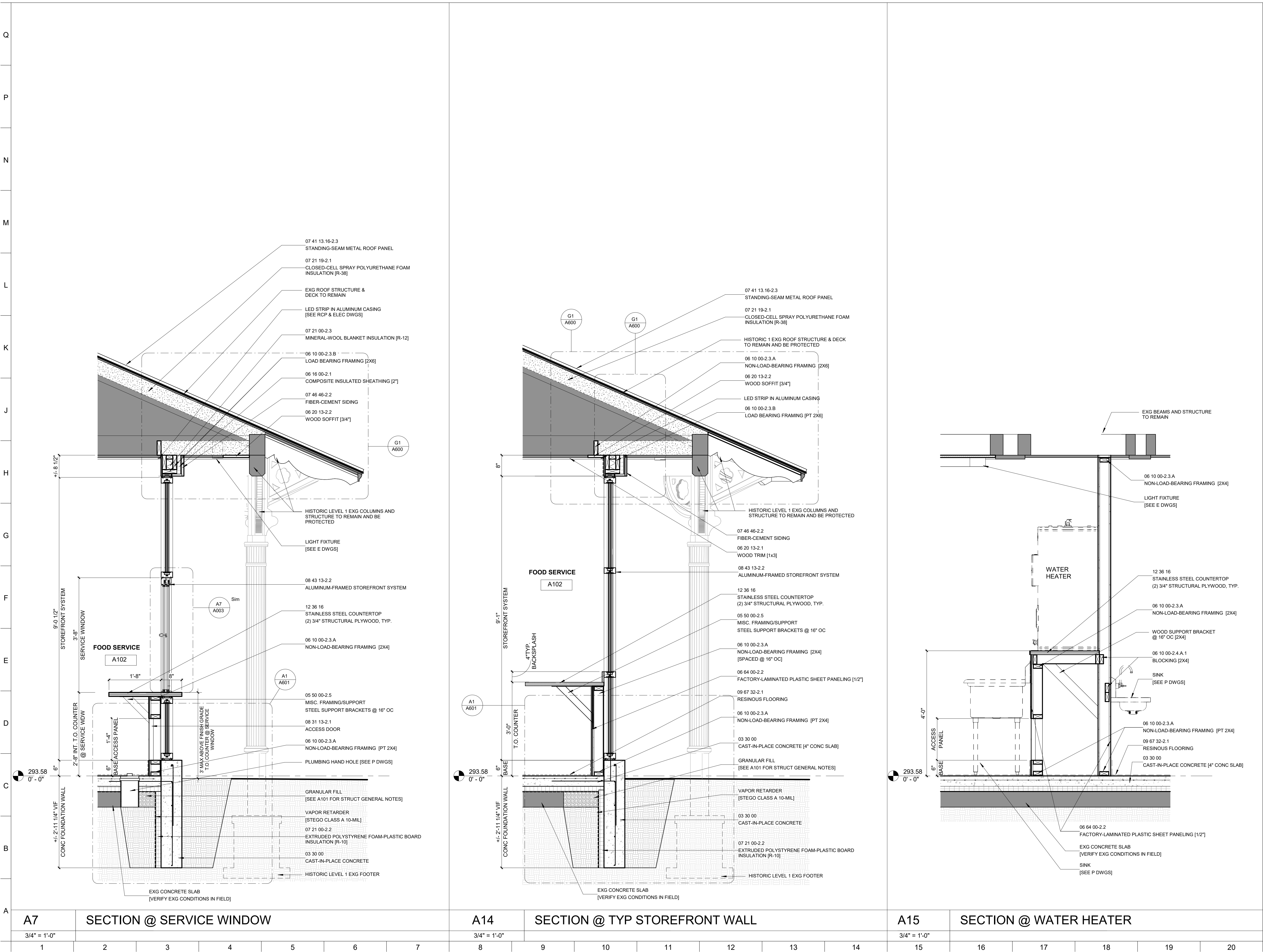
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SUBMISSION	DATE
BID SET	08/10/2026

DRAWING TITLE:

WALL SECTIONS

DRAWING NO:

A400



BKP

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CLIENT:
MARYLAND ZOO
THE MARYLAND ZOO IN BALTIMORE
1 SAFARI PLACE
BALTIMORE, MD 21217

ROUND STAND CAFE

THE MARYLAND ZOO
IN BALTIMORE
1876 MANSION HOUSE DRIVE
BALTIMORE, MD 21217

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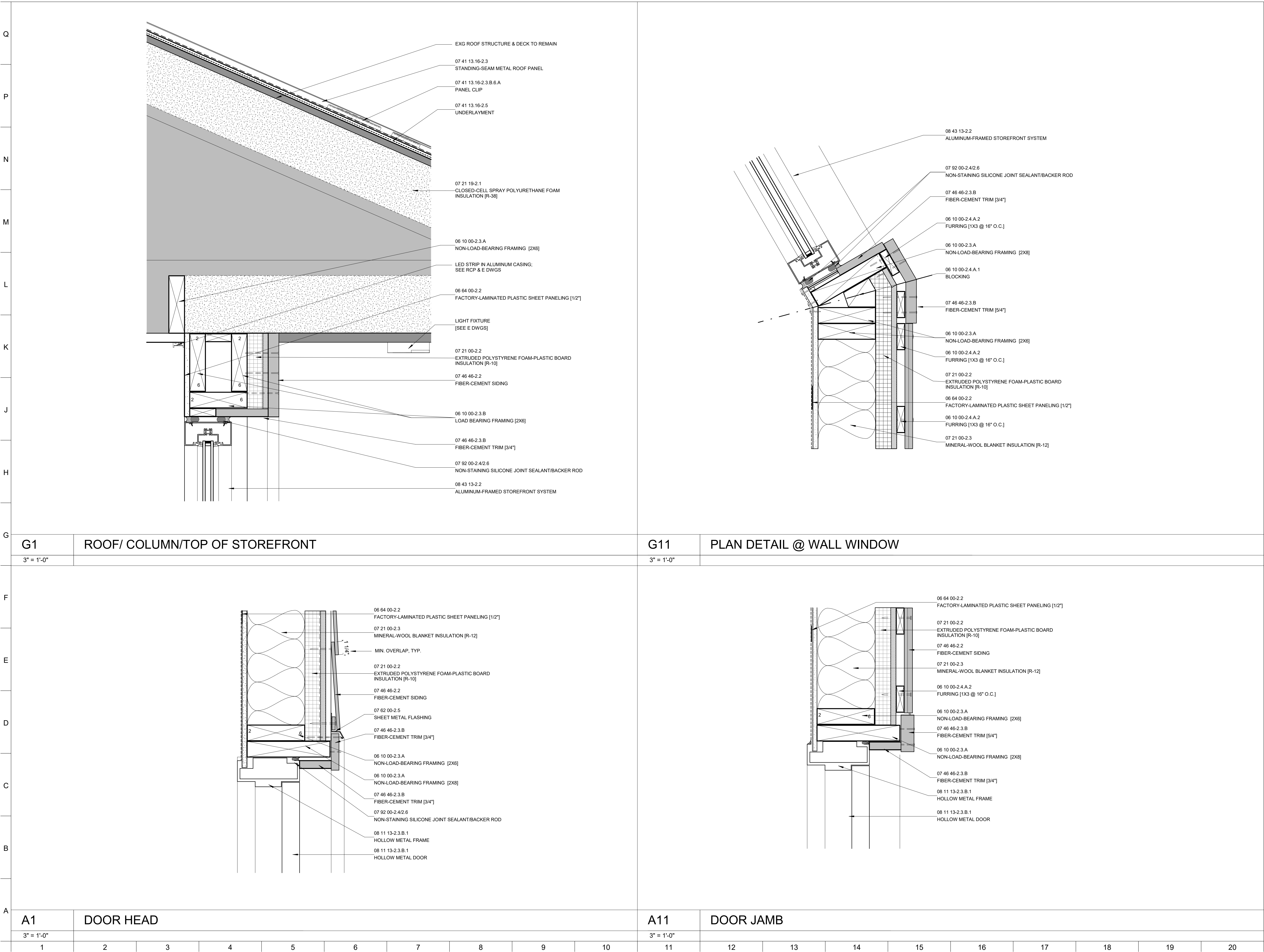
SEAL:

JOSEPH H. POWELL, AIA
MD LICENSE: 14268

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WALL SECTIONS

DRAWING NO:
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STATE OF MARYLAND
JOSEPH H. POWELL
14268
ARCHITECT

JOSEPH H. POWELL, AIA
MD LICENSE: 14268

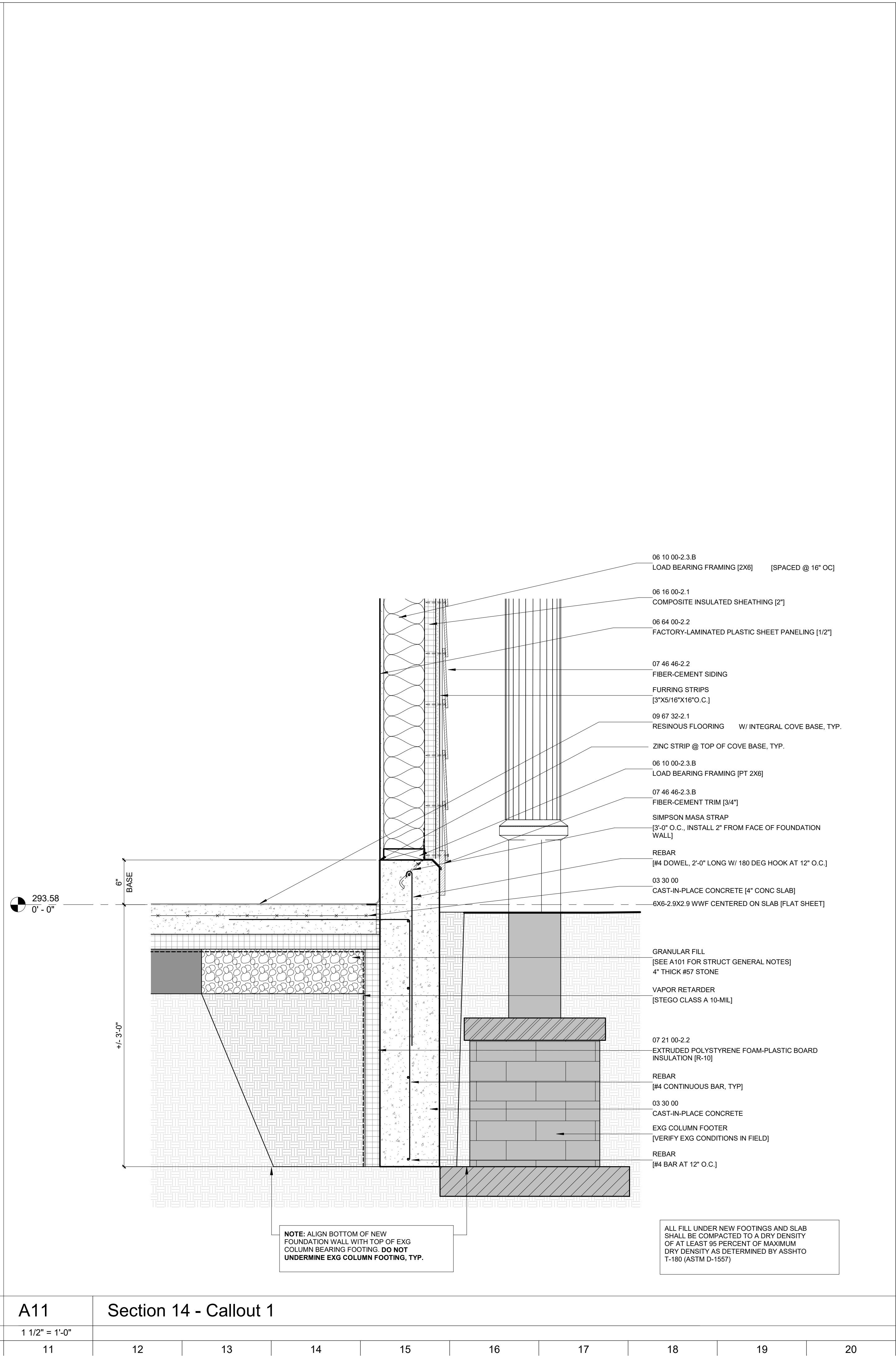
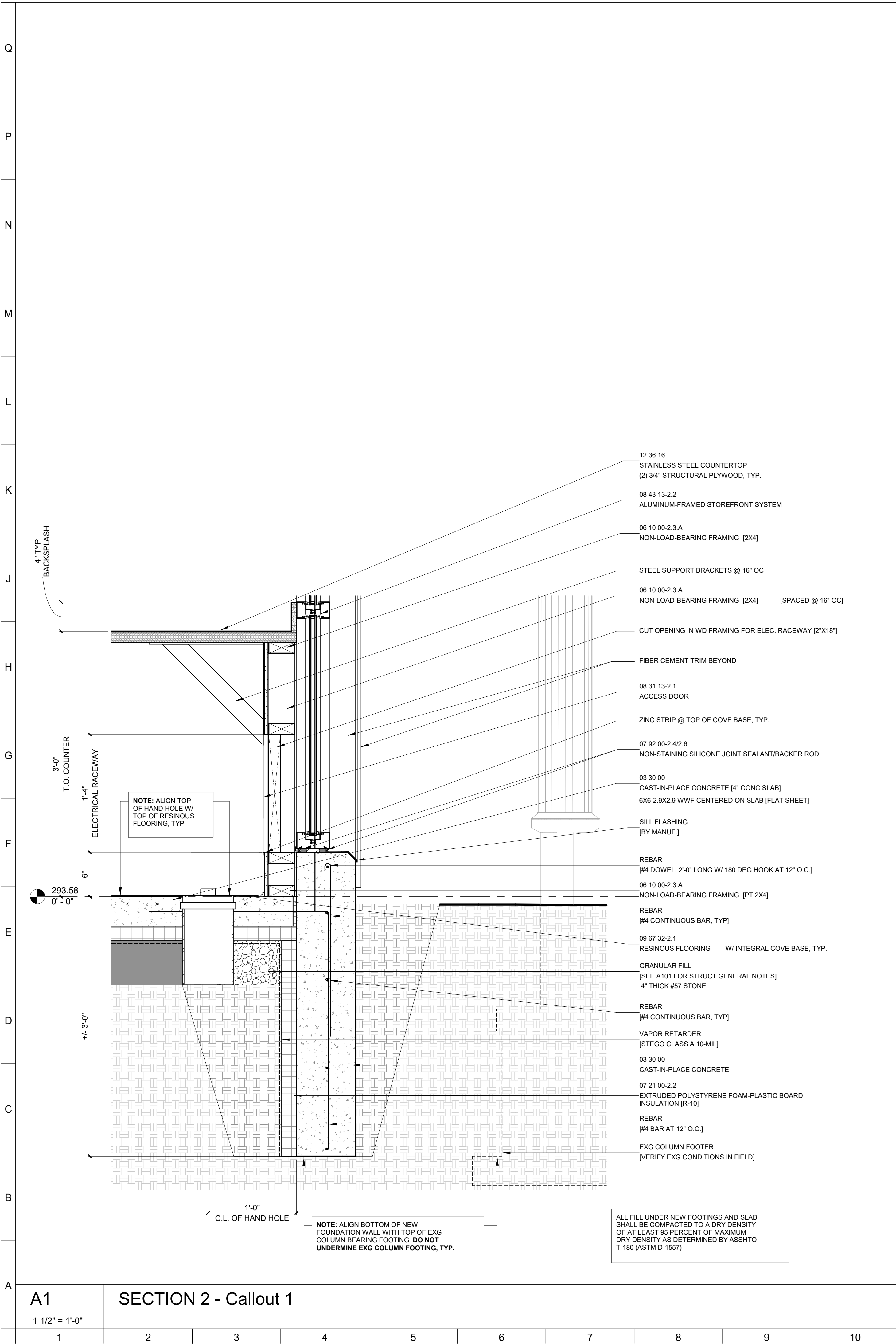
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DRAWING TITLE:

CONSTRUCTION
DETAILS

DRAWING NO:

A600



PROJECT TEAM:

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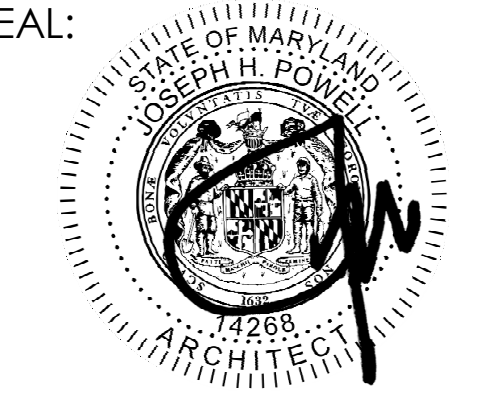
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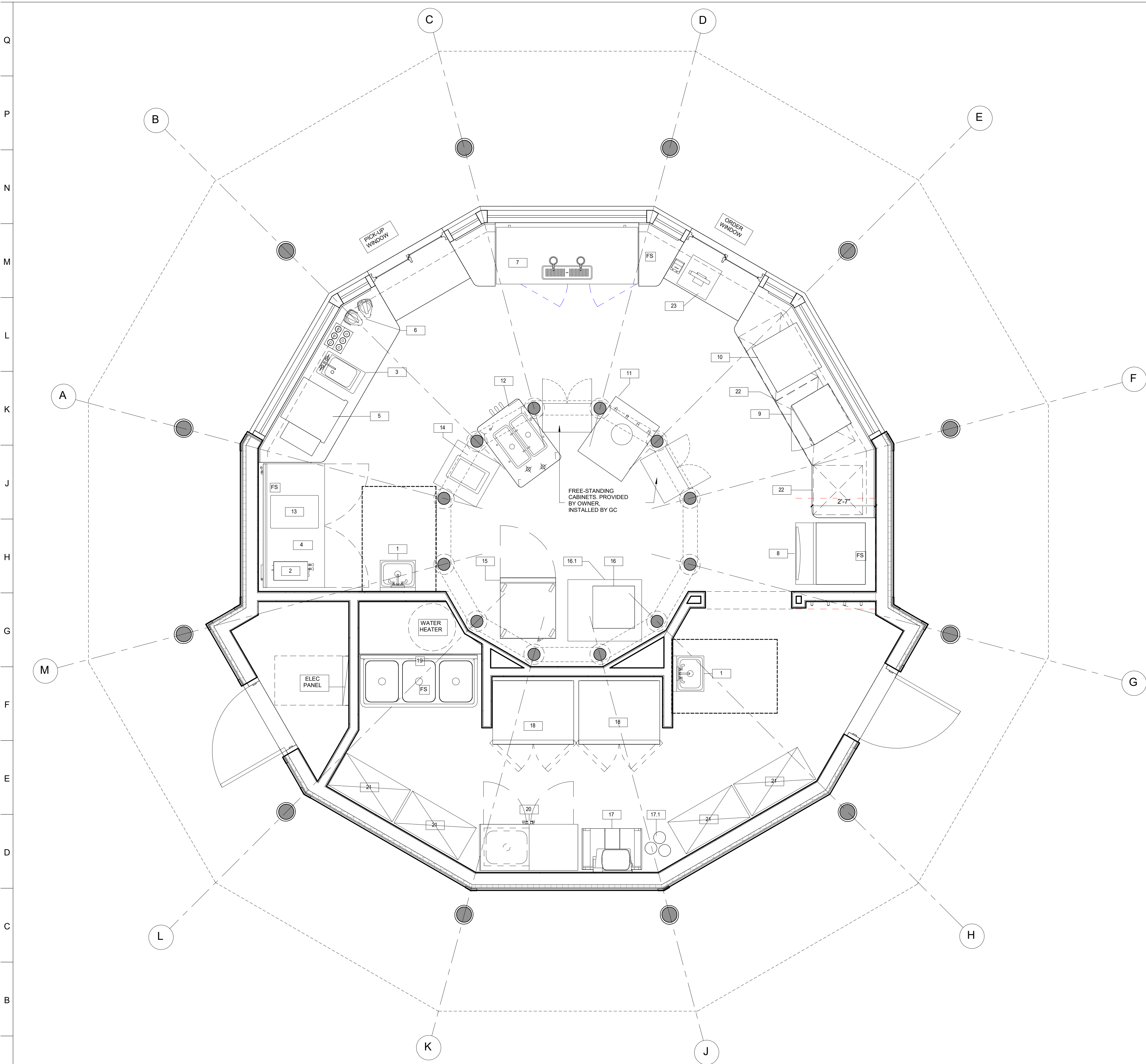
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DRAWING TITLE:

CONSTRUCTION
DETAILS

DRAWING NO:

A601



EQUIPMENT SCHEDULE		
ITEM NO.	QTY	EQUIPMENT DESCRIPTION
1	2	HAND SINK, WALL MOUNT
2	1	COFFEE MAKER, AIRPOT, AUTOMATIC
3	1	UNDERBAR SINK, DROP-IN
4	1	REFRIGERATOR, WORKTOP
5	1	ESPRESSO MACHINES, SUPER AUTO, MILK REFRIGERATOR
6	2	AIRPOT
7	1	DRAFT BEER COOLER
8	1	ICE MAKER W/ BIN
9	1	WARMER, DISPLAY CASE
10	1	SODA DISPENSER
11	1	ICEE MACHINE
12	1	SOFT SERVE MACHINE
13	1	RAPID COOK OVEN
14	1	DROP-IN, ICE BIN
15	1	REACH-IN REFRIGERATOR
16	1	POPCORN POPPER
16.1	1	STAINLESS STEEL TOP WORK TABLE
17	1	SODA BIB RACK
17.1	1	CO2 TANKS
18	2	REFRIGERATOR, REACH-IN
19	1	3 COMPARTMENT SINK
20	1	MOP SINK CABINET
21	4	WIRE SHELVING UNIT
22	3	UNDERCOUNTER WIRE SHELVING
23	1	POS



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DRAWING TITLE:
EQUIPMENT PLAN

DRAWING NO:
A901

A1 EQUIPMENT PLAN

1/2" = 1'-0"

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

DESIGN	DESCRIPTION	SAN	TRAP	VENT	CW	HW	REMARKS
P-1	HAND SINK	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	(3)
P-2	DROP-IN SINK	-	-	-	1/2"	-	(1)
P-3	THREE COMPARTMENT SINK	-	-	-	1/2"	1/2"	(2)
P-4	JANITOR CABINET	3"	3"	1-1/2"	1/2"	1/2"	

NOTES:

- 1 PROVIDE 1-1/2" SAN DRAIN PIPING. EXTEND SAN PIPING TO NEAREST FLOOR SINK. REFER TO PLANS FOR LOCATION.
- 2 PROVIDE 3" SAN DRAIN PIPING CONNECTED TO SINK'S (3) 3" DRAIN CONNECTIONS. EXTEND SAN PIPING TO GREASE INTERCEPTOR.
- 3 PROVIDE MIXING VALVE. REFER TO DETAIL ON SHEET P-501.

WATER HEATER SCHEDULE							
DESIG.	LOCATION	TYPE	CAPACITY (GAL.)	KW INPUT	VOLTS/PHASE	A.O. SMITH MODEL	REMARKS
WH-1	MECH ROOM	ELECTRIC	30	4.5	208/1	DEL-30	① ② ③
NOTES: ① PROVIDE WITH MANUFACTURER'S RELIEF VALVE. ② SET WATER HEATER TEMPERATURE TO 140°F. SET MIXING VALVE LEAVING TEMPERATURE TO 120°F. ③ SINGLE HEATING ELEMENT.							

EXPANSION TANK SCHEDULE								
DESIGN	LOCATION	SERVICE	TYPE	TOTAL VOL. MIN. GAL.	ACCEPT VOL. MIN. GAL.	DIAMETER X LENGTH	WATTS MODEL NUMBER	REMARKS
ET-1	MECH ROOM	DOMESTIC WATER	DIAPHRAGM	3.5	2.3	10"x14"L	DETA-5	

SEDIMENT FILTER SCHEDULE											
LOCATION	SERVICE	HOUSING SIZE	TYPE	PIPE SIZE	GPM MAX	MAX ΔP (PSI)	FILTER	MICRON RATING	WATTS HOUSING MODEL	WATTS FILTER MODEL	REMARKS
MECH ROOM	CW INLET	10"	FULL FLOW	1-1/2"	15	0.5	PLEATED	5 MICRON	PWHP10FF15BRP	PWPL	①②

NOTES:

① PROVIDE WALL MOUNT BRACKET FOR FILTER HOUSING.

② PROVIDE (4) TOTAL FILTERS. FILTERS SHALL BE CLEANABLE, 100% SYNTHETIC PLEATED FILTERS.

POINT-OF-USE WATER HEATER SCHEDULE								
DESIGN	TYPE	INPUT KW	LEAVING WATER TEMPERATURE	FLA	VOLTS	PHASE	EEMAX MODEL NUMBER	REMARKS
PMH-1	ELECTRIC	6.5	145° F AT 0.5 GPM	27	208	1	(1)	
NOTES: (1) EEMAX LAVADVANTAGE MODEL NO. SPEXG8T S.								

ITEM #	QTY	DESCRIPTION	WATER		WASTE		REMARKS
			COLD	HOT	DIRECT	INDIRECT	
△	2	HAND SINK (P-1)	-	-	-	-	(1)
△	1	COFFEE BREWER	1/4"	-	-	-	(2) (7)
△	1	DROP-IN SINK (P-2)	-	-	-	-	(1)
△	1	ESPRESSO	1/2"	-	-	1/2"	(3) (7)
△	1	DRAFT BEER COOLER	-	-	-	1/2"	(4)
△	1	ICE MAKER	3/8"	-	-	(5)	(2) (7) (8)
△	1	SODA DISPENSER	1/2"	-	-	1/2"	(6) (7)
△	1	ICEE MACHINE	3/8"	-	-	-	(2) (7)
△	1	DROP-IN ICE BIN	-	-	-	1"	(4)
△	1	3-COMPARTMENT SINK (P-3)	-	-	-	-	(1)
△	1	JANITOR CABINET (P-4)	-	-	-	-	(1)

NOTES:

- REFER TO PLUMBING FIXTURE SCHEDULE.
- PROVIDE CW TUBING AND EXTEND FROM CW SOURCE.
- INSTALL CW AND DRAIN TUBING PROVIDED WITH ESPRESSO. CONNECT CW TUBING TO CW SOURCE AND EXTEND DRAIN TUBING TO FLOOR SINK.
- PROVIDE DRAIN TUBING AND EXTEND TO FLOOR SINK.
- PROVIDE 1/2" AND 3/4" DRAIN TUBING AND EXTEND FROM EQUIPMENT TO FLOOR SINK.
- PROVIDE CW AND DRAIN PIPING. CONNECT CW TUBING TO CW SOURCE AND EXTEND DRAIN TUBING TO FLOOR SINK.
- PROVIDE INLINE BACKFLOW PREVENTER ON CW CONNECTION.
- REFER TO ICE MAKER PLUMBING CONNECTIONS DETAIL ON SHEET P-501

GREASE INTERCEPTOR

PLUMBING LEGEND		
SYMBOL	ABBREY	DESCRIPTION
	CX	CONNECT NEW WORK TO EXISTING
	EX	EXISTING WORK TO REMAIN
	RX	REMOVE EXISTING WORK
		RELOCATED WORK
	SAN	SANITARY LINE
	VP	VENT PIPE
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RECIRCULATING
	TW	TEMPERED WATER
	G	GAS
		SHUT OFF VALVE IN RISER
		GATE VALVE, GLOBE VALVE
		CHECK VALVE
		STATIONARY FLOW METER, PORTABLE FLOW METER, GPM
	BFP	BACK FLOW PREVENTER
		BALANCING VALVE
		TEMPERATURE CONTROL VALVE (2 WAY, 3 WAY)
		PRESSURE REDUCING VALVE
		RELIEF OR SAFETY VALVES
		BUTTERFLY VALVE
		MANUAL AIR VENT
		AUTOMATIC AIR VENT
		STRAINER
		UNION
		THERMOMETER
		PRESSURE GAUGE
		PIPE TURNED UP, PIPE TURNED DOWN
	FD	FLOOR DRAIN
		REFER TO NOTE 1 ON THIS SHEET
	AFF	ABOVE FINISHED FLOOR
	DN	DOWN
	TYP	TYPICAL
		FOOD SERVICE EQUIPMENT DESIGNATION. REFER TO FOOD SERVICE EQUIPMENT SCHEDULE.

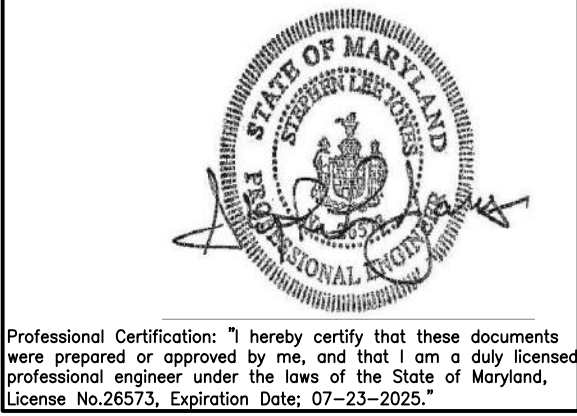

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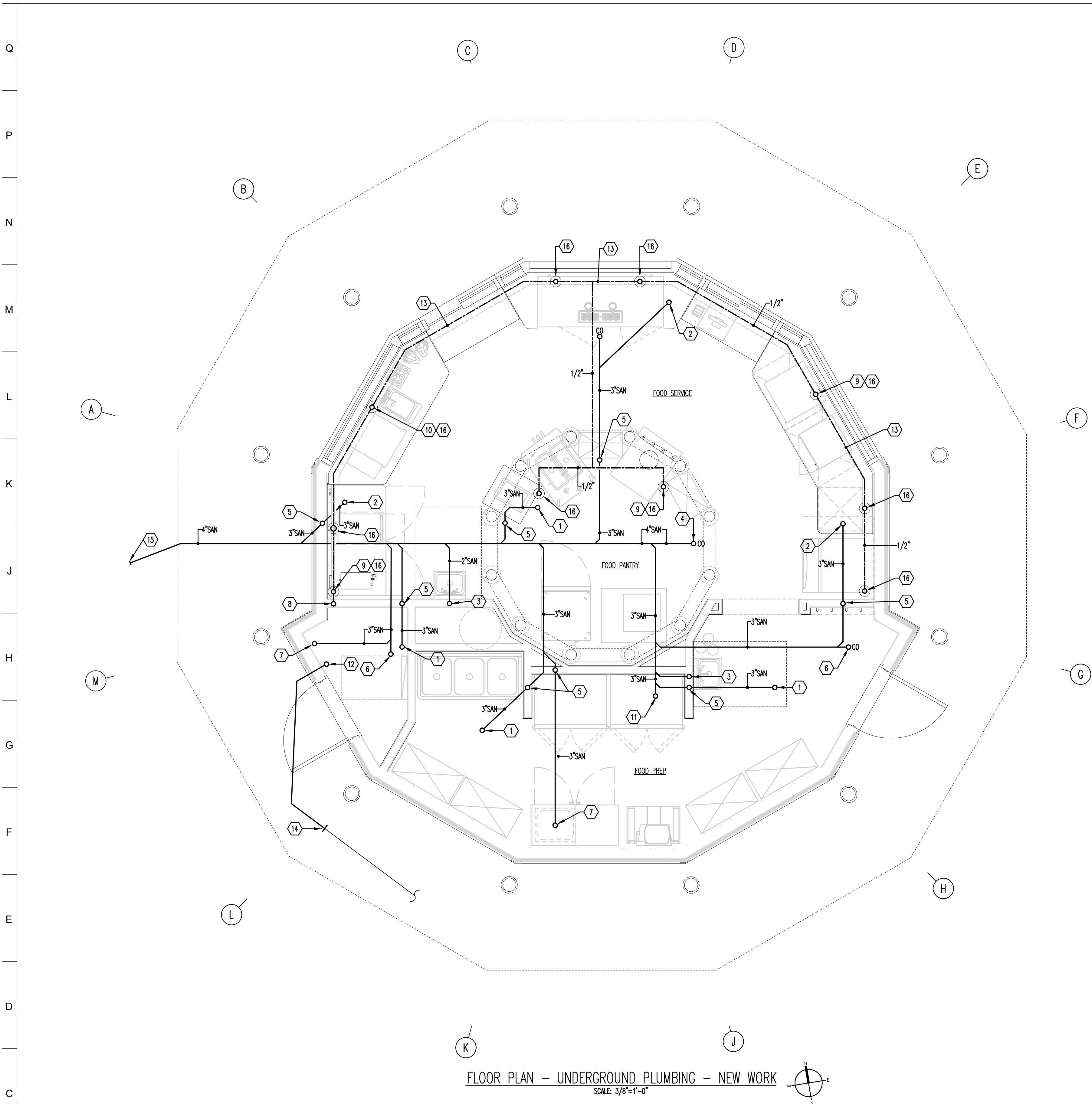
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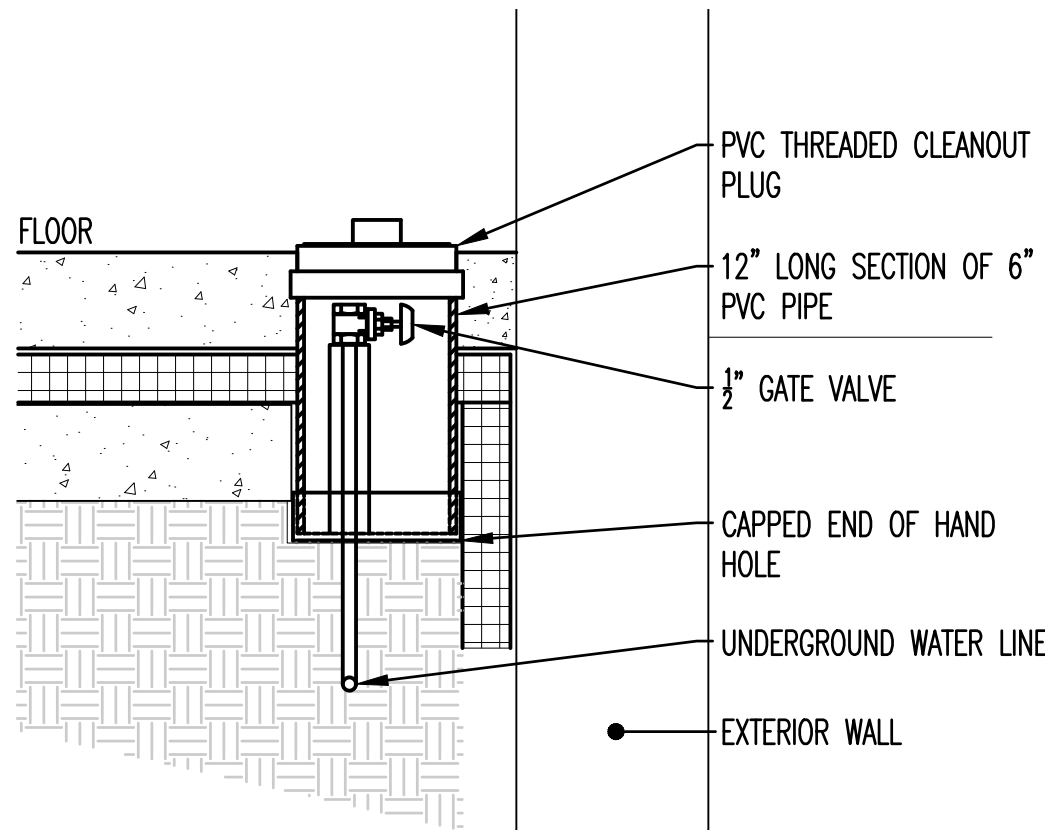
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PLUMBING LEGEND AND
SCHEDULES

DRAWING NO:
P-001



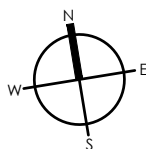
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- 2 3\"/>
- 3 2\"/>
- 4 4\"/>
- 5 1-1/2\"/>
- 6 3\"/>
- 7 3\"/>
- 8 1/2\"/>
- 9 EXTEND CW TO FOODSERVICE EQUIPMENT. REFER TO FOODSERVICE EQUIPMENT SCHEDULE FOR PIPE SIZE.
- 10 EXTEND CW TO SINK AND FOODSERVICE EQUIPMENT. REFER TO FOODSERVICE EQUIPMENT SCHEDULE FOR PIPE SIZE.
- 11 3\"/>
- 12 3/4\"/>
- 13 INSTALL 1/2\"/>
- 14 CONNECT TO 3/4\"/>
- 15 CONNECT TO 4\"/>
- 16 INSTALL PLUMBING HAND HOLE AT THIS LOCATION FOR CW SHUTOFF VALVE. REFER TO DETAIL ON THIS SHEET.



DETAIL - PLUMBING HAND HOLE
NOT TO SCALE

FLOOR PLAN - UNDERGROUND PLUMBING - NEW WORK
SCALE: 3/8\"/>



BKP

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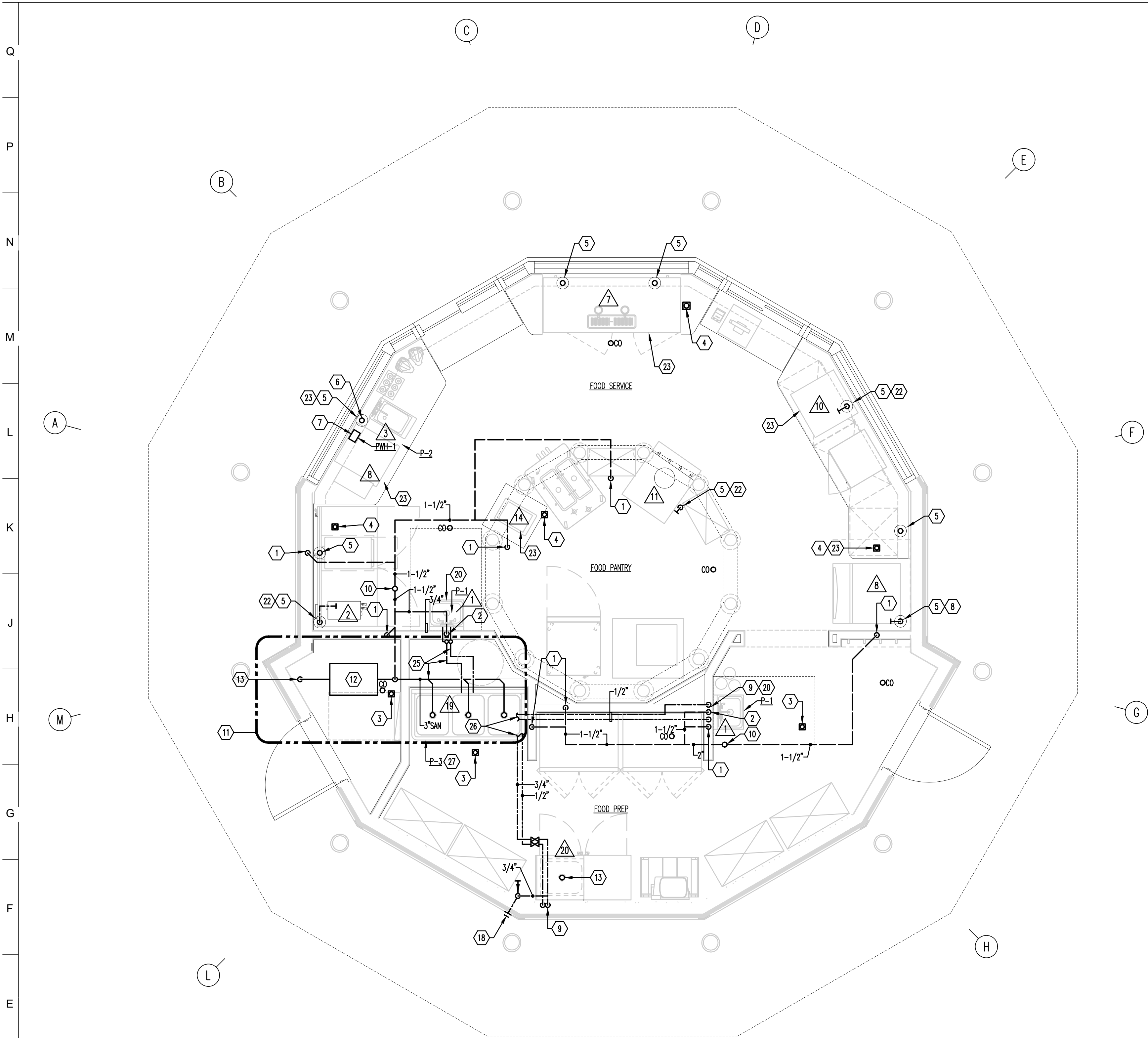


Professional Certification: "I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No.28573, Expiration Date: 07-23-2025."

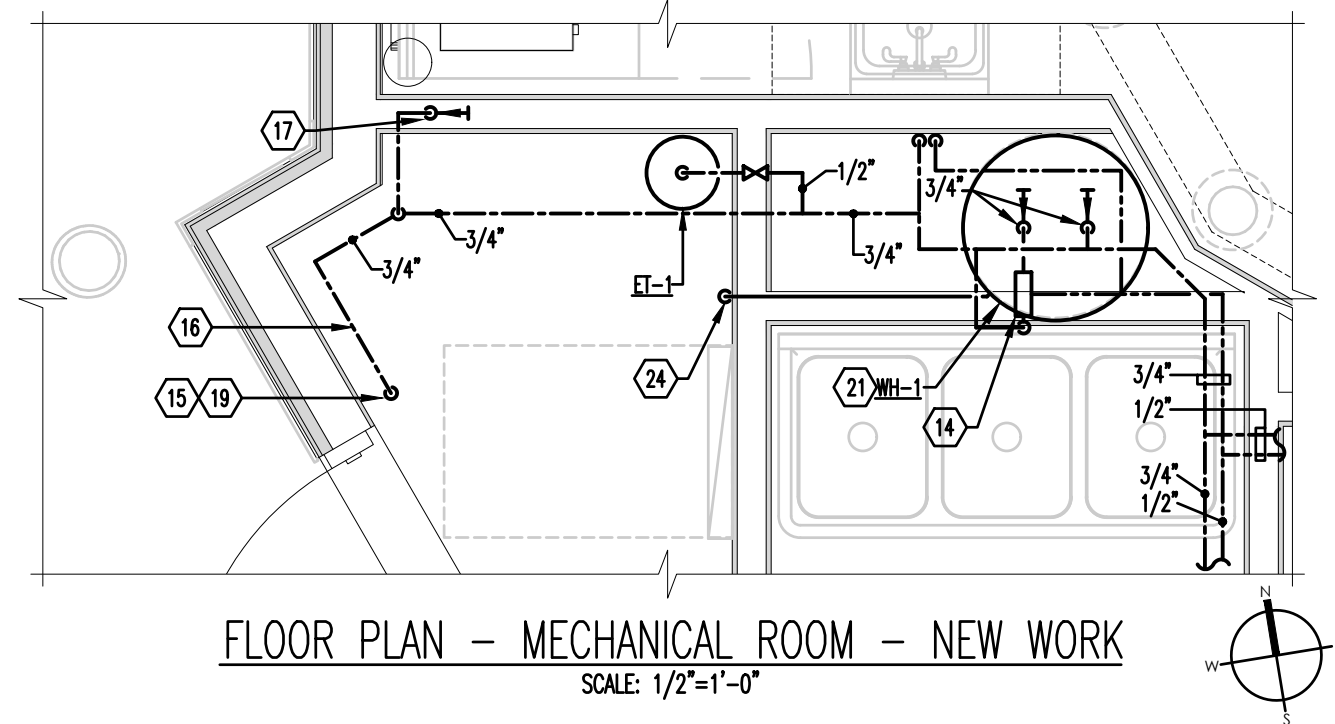
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DRAWING TITLE:
FLOOR PLAN - UNDERGROUND
PLUMBING - NEW WORK

DRAWING NO:
P-101



FLOOR PLAN - ABOVE GROUND PLUMBING - NEW WORK
SCALE: 3/8"=1'-0"



FLOOR PLAN - MECHANICAL ROOM - NEW WORK
SCALE: 1/2"=1'-0"

DRAWING NOTES:

- 1-1/2"VP DOWN THROUGH FLOOR.
- 1-1/2"VP DOWN, 2"SAN DOWN THROUGH FLOOR.
- 3" FLOOR DRAIN.
- 3" FLOOR SINK.
- PLUMBING HAND HOLE LOCATION. REFER TO DETAIL ON SHEET P-101.
- EXTEND 1/2"CW FROM VALVED CONNECTION IN HAND HOLE TO SINK AND ESPRESSO MACHINE. REFER TO FOODSERVICE EQUIPMENT SCHEDULE ON SHEET P-001.
- PROVIDE POINT-OF-USE WATER HEATER BELOW SINK. REFER TO DETAIL ON SHEET P-501.
- DROP 1/2"CW DOWN IN WALL TO ICE MACHINE. TERMINATE PIPING AT WALL WITH BALL VALVE AND BACKFLOW PREVENTER. REFER TO DETAIL ON SHEET P-501.
- DROP 1/2"CW & HW DOWN IN WALL TO SERVE PLUMBING FIXTURE.
- 3" VENT THRU ROOF.
- REFER TO 1/2" SCALE MECHANICAL ROOM PLAN ON THIS SHEET FOR ADDITIONAL WORK IN THIS AREA.
- GREASE INTERCEPTOR, REFER TO DETAIL ON SHEET P-501.
- 3"SAN DOWN THROUGH FLOOR.
- MIXING VALVE. REFER TO DETAIL ON SHEET P-501.
- 3/4"CW DOWN THROUGH FLOOR. REFER TO WATER SERVICE DETAIL ON SHEET P-501.
- REFER TO COLD WATER INLET DETAIL ON SHEET P-501.
- 1/2"CW DOWN THROUGH FLOOR.
- PROVIDE EXTERIOR WALL HYDRANT.
- PROVIDE METRO-FARNER SPECTRUM SINGLE JET WATER METER. PROVIDE METER WITH WN-LITE REGISTER THAT WILL ALLOW COMMUNICATION WITH WATERSCOPE DASHBOARD. CONTRACTOR TO COORDINATE INSTALLATION WITH MIMIR WATER.
CONTACT: ANNIKO CHAMBERLAIN
PHONE: 929-910-0149
EMAIL: ANNIKO@MIMIRWATER.COM
- REFER TO HAND SINK MIXING VALVE DETAIL ON SHEET P-501.
- REFER TO ELECTRIC DOMESTIC WATER HEATER DETAIL ON SHEET P-501.
- EXTEND CW TO FOODSERVICE EQUIPMENT. REFER TO FOODSERVICE EQUIPMENT SCHEDULE ON SHEET P-001.
- EXTEND DRAIN PIPING FROM FOODSERVICE EQUIPMENT TO CLOSEST FLOOR SINK. REFER TO FOODSERVICE EQUIPMENT SCHEDULE ON SHEET P-001.
- PROVIDE 3/4" DRAIN FROM WATER HEATER DRAIN PAN TO FLOOR DRAIN.
- CW, HW AND SAN LOCATED BELOW LEDGE AND WATER HEATER.
- REFER TO 1/2" SCALE MECHANICAL ROOM PLAN FOR CONTINUATION.
- REFER TO 3-COMPARTMENT SINK DETAIL ON SHEET P-501.

BKP

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BALTIMORE, MD 21217

ROUND STAND CAFE

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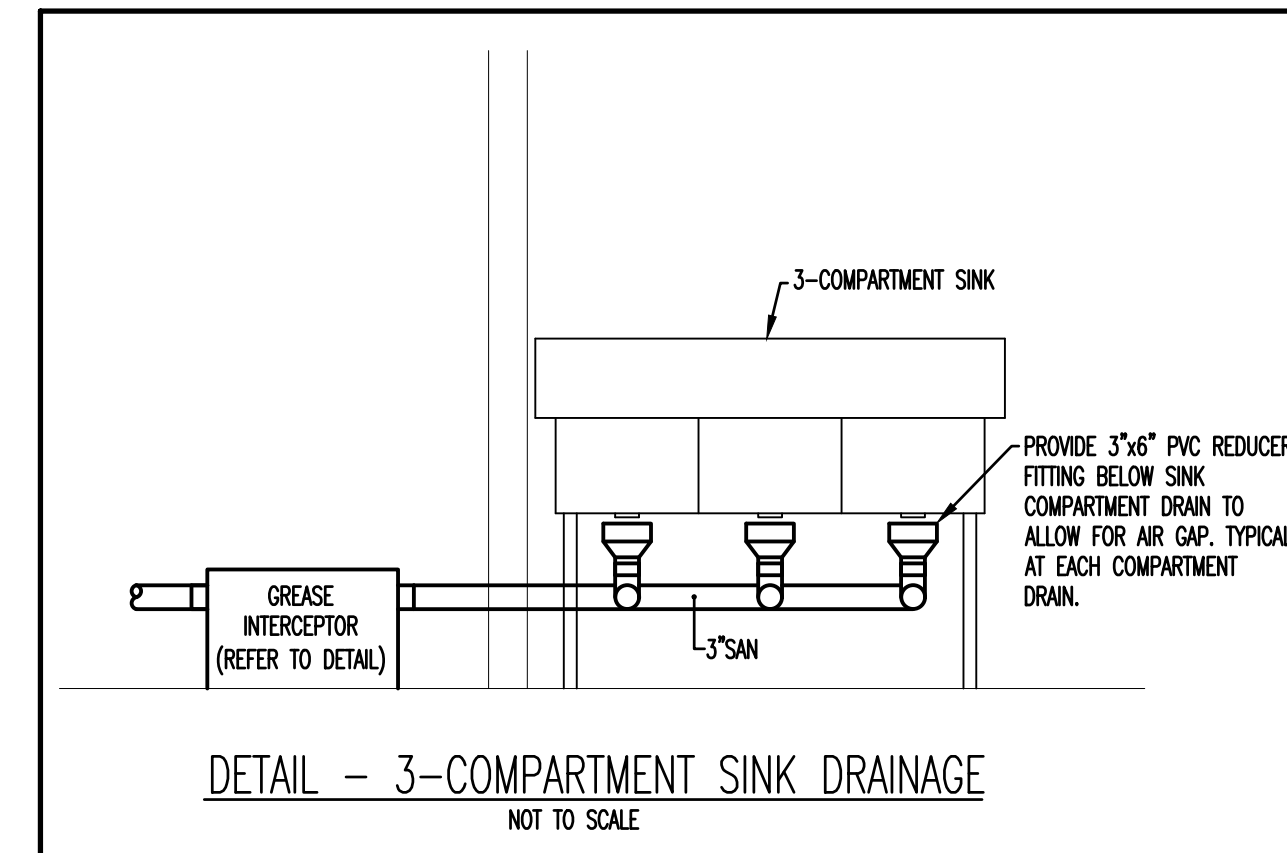
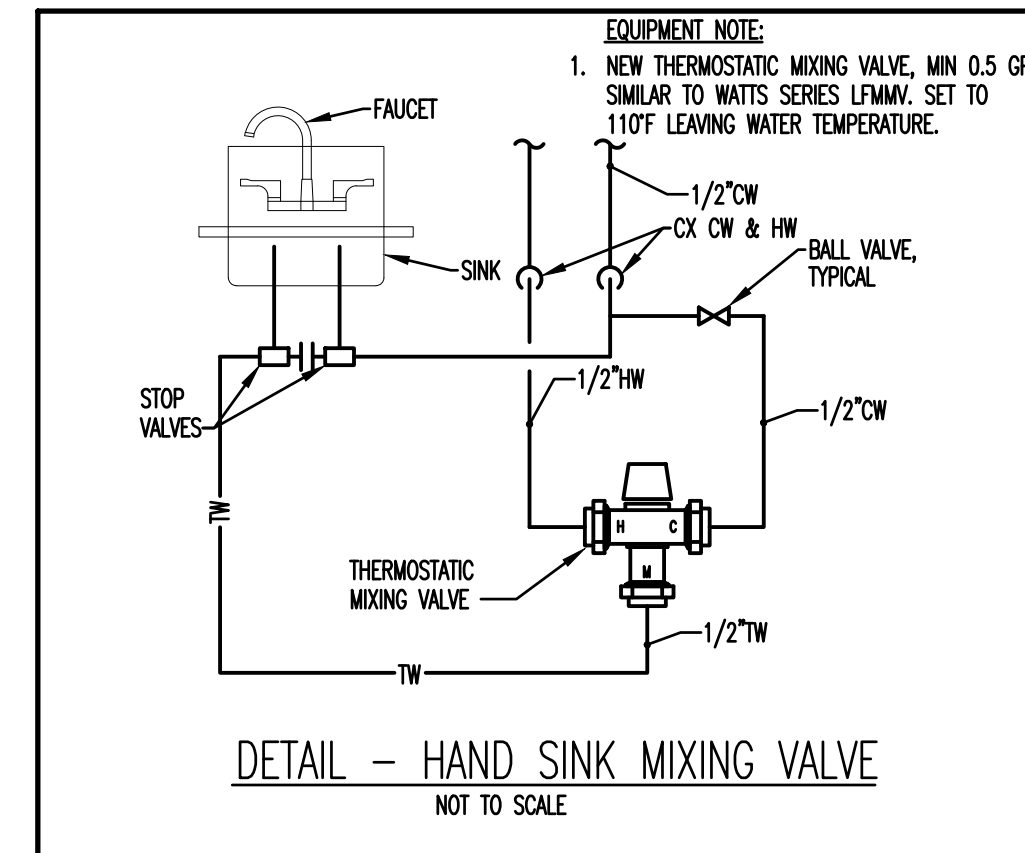
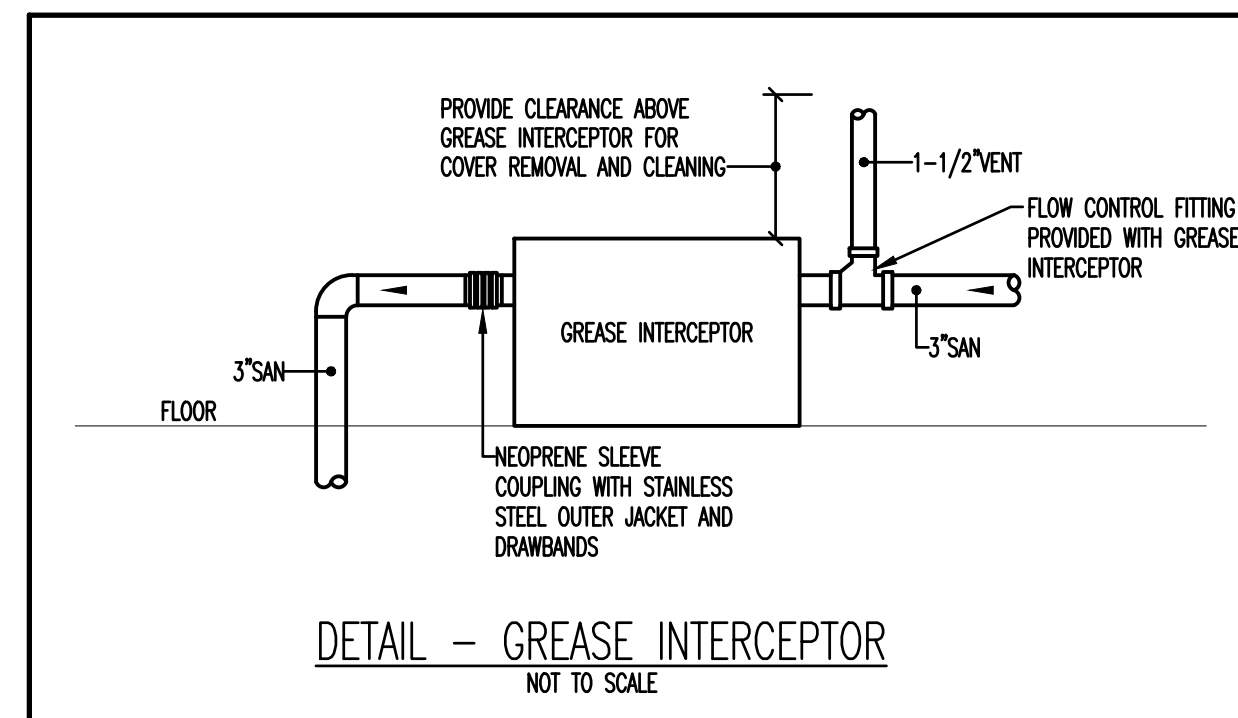
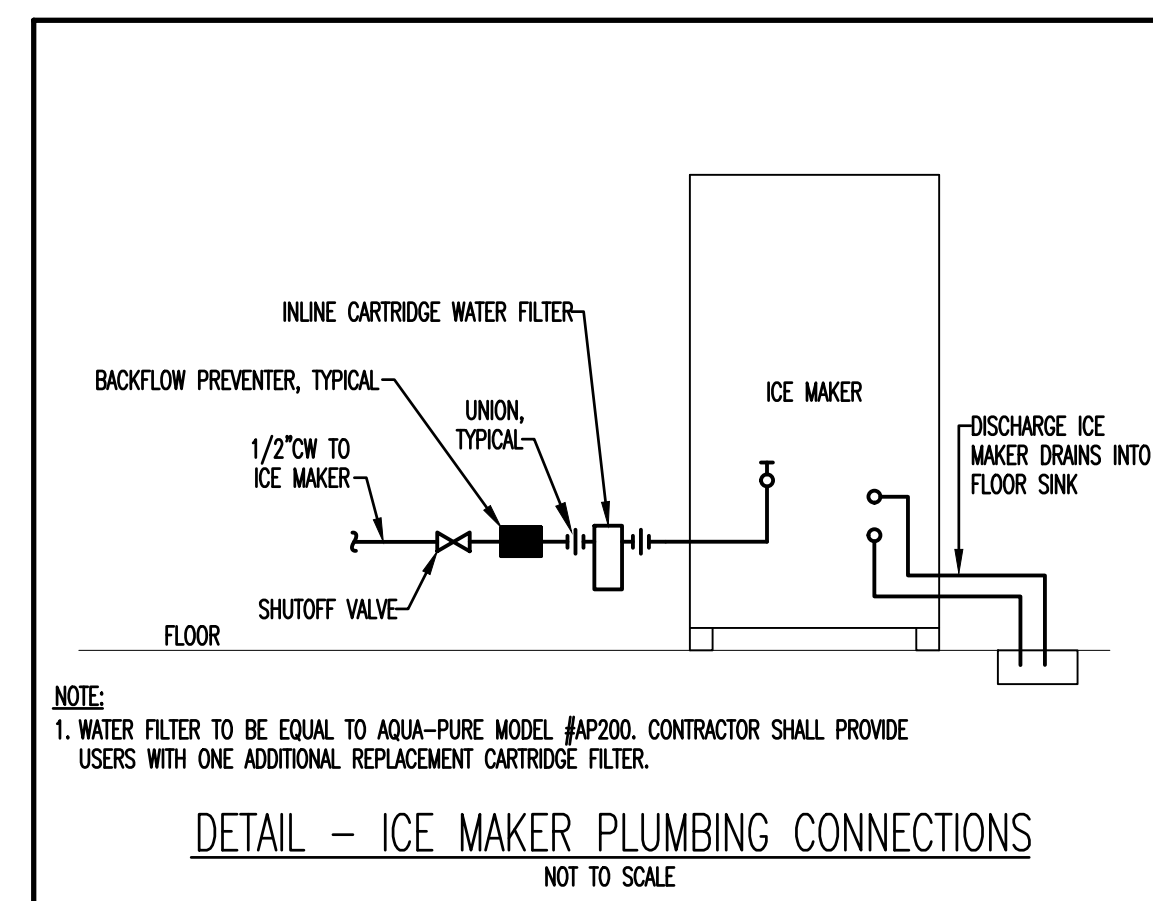
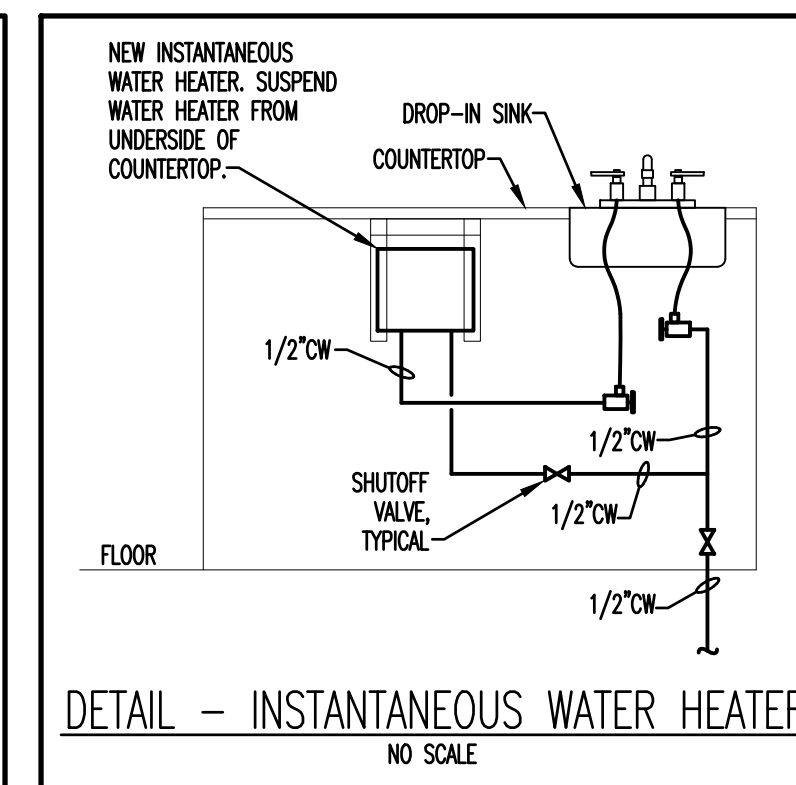
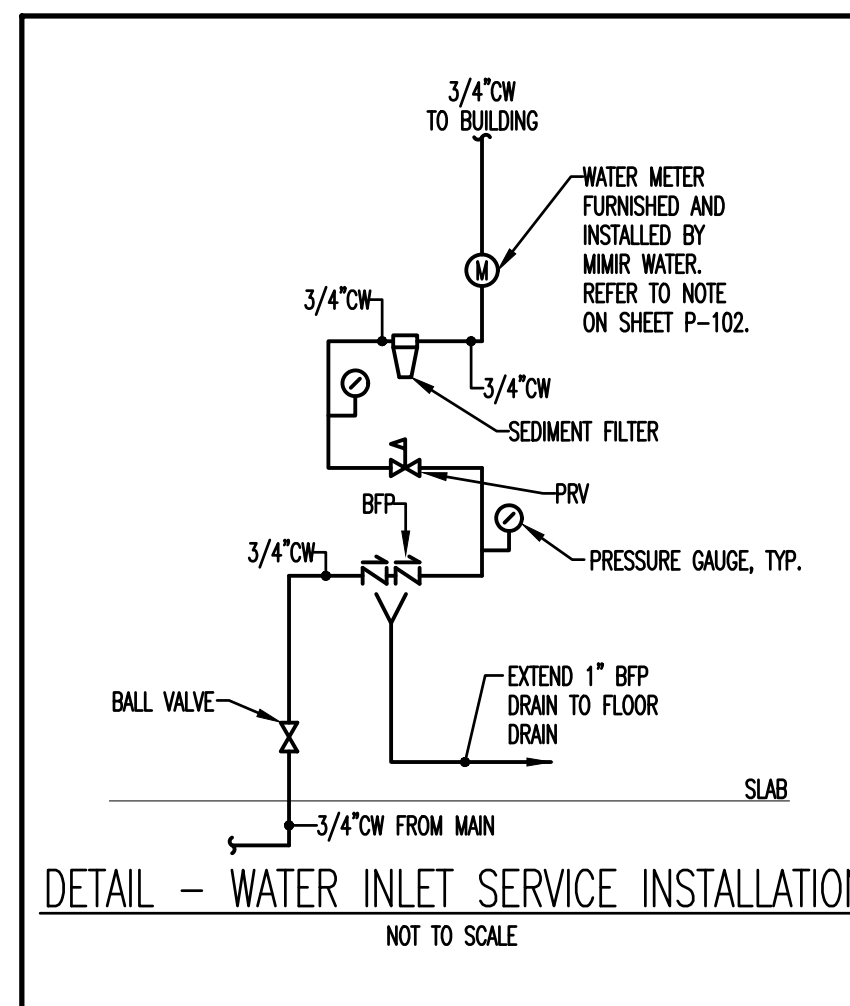
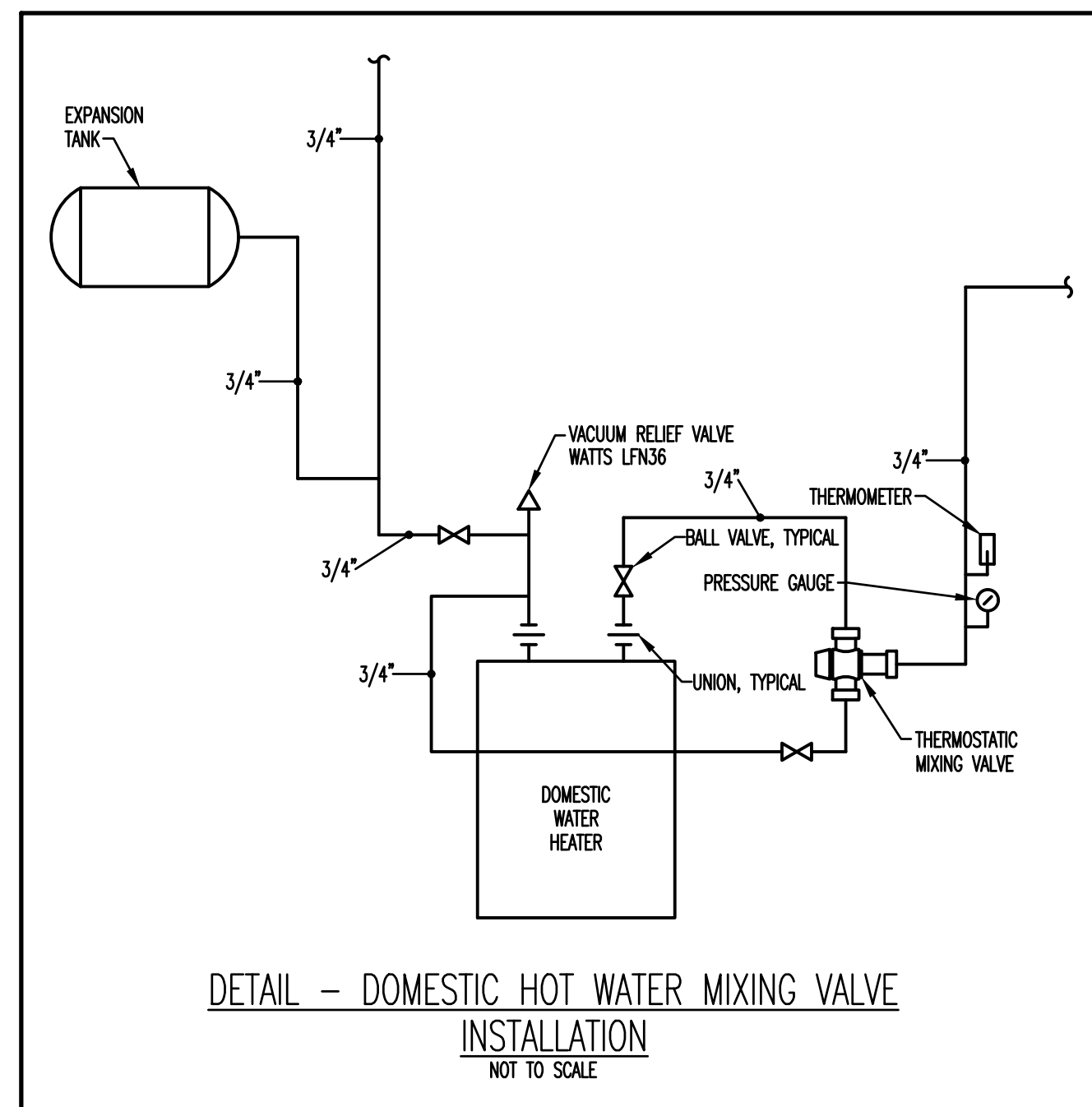
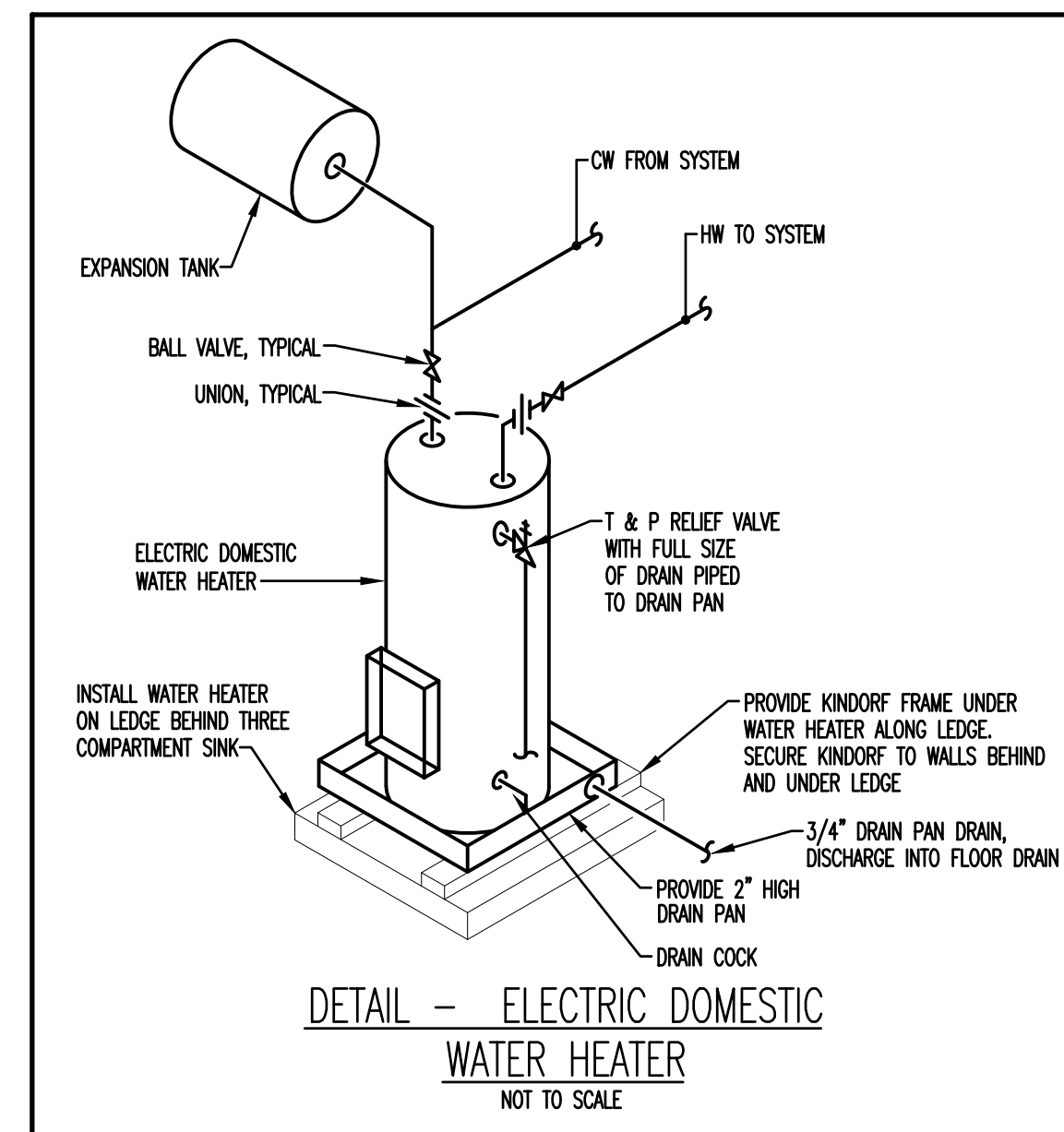


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DATE: AUGUST 10, 2026	
PROJECT NO: 2023-10.08	
DRAWN BY	KWA
CHECKED BY	KWA
SUBMISSION	DATE
BID SET	08/10/2026
REVISION	DATE

DRAWING TITLE:
FLOOR PLAN - ABOVE
GROUND - PLUMBING - NEW
WORK

DRAWING NO:
P-102



BKP)

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DRAWING TITLE:
PLUMBING DETAILS

DRAWING NO:

P-501

10952 - MARYLAND ZOO ROUND STAND

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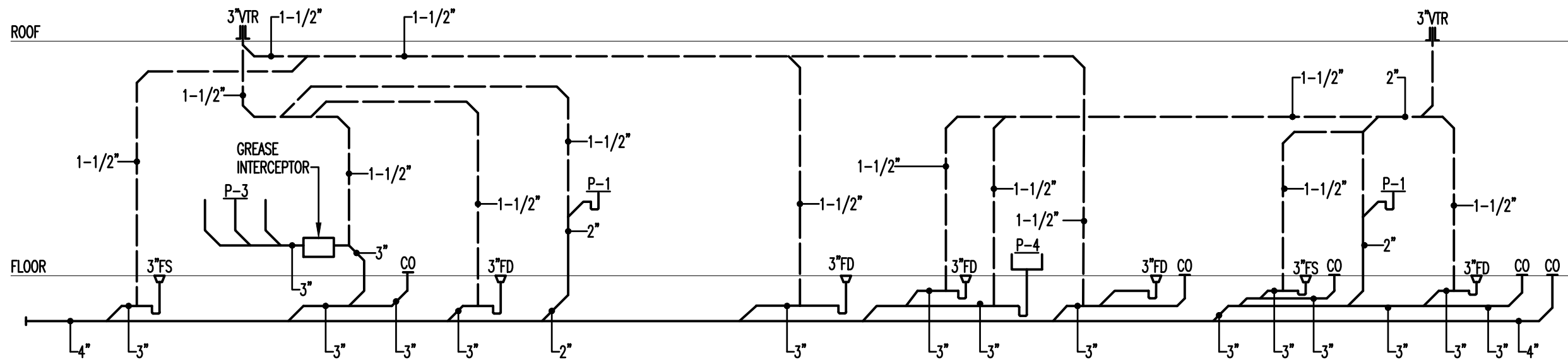
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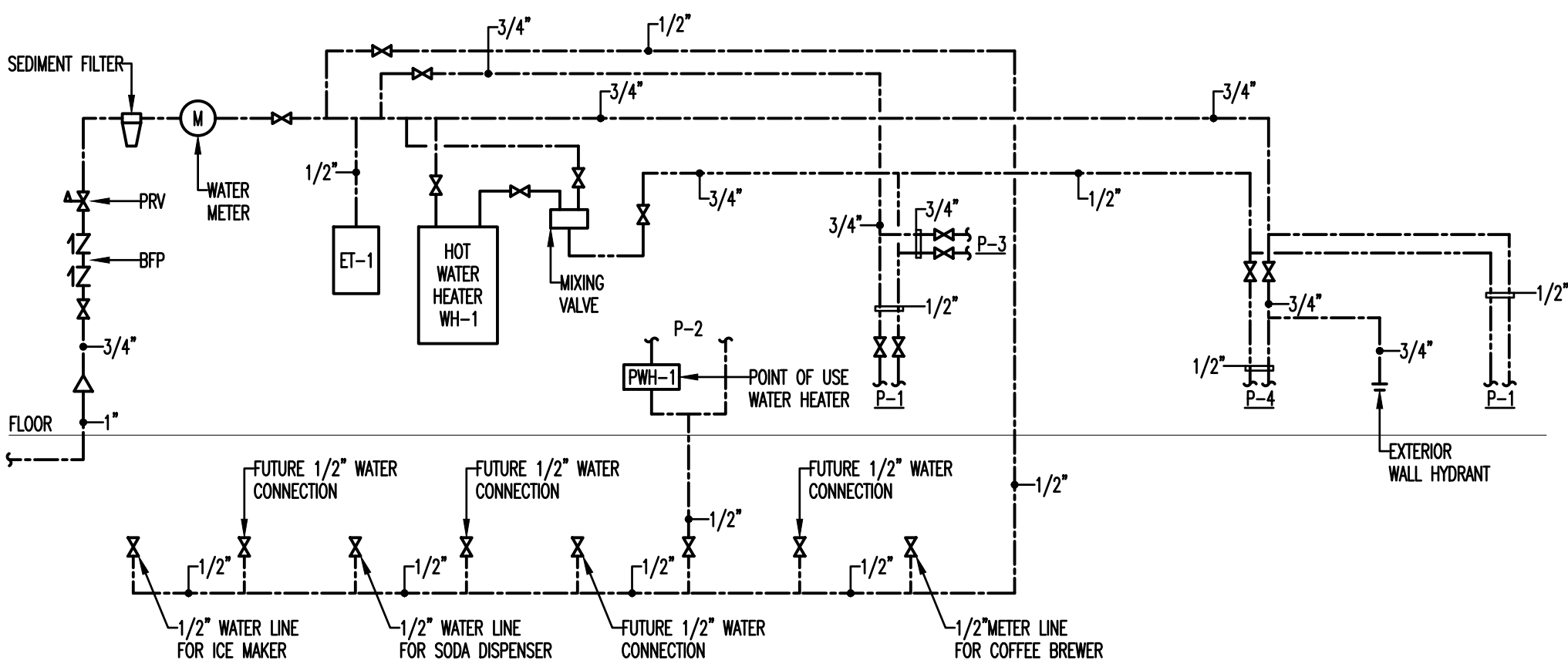
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ROUND STAND SANITARY RISER DIAGRAM
NOT TO SCALE



ROUND STAND DOMESTIC WATER RISER DIAGRAM
NOT TO SCALE



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DRAWING TITLE:
SANITARY AND
DOMESTIC WATER
RISER DIAGRAMS

DRAWING NO:

P-601

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CONCEALED DUCTED UNIT SCHEDULE																			
DESIGN	LOCATION	TYPE	SOUND LEVEL (dB(A))	REFRIG. TYPE	COOLING			HEATING		FAN		ELECTRICAL				ASSOCIATED OUTDOOR UNIT	MANUFACTURER		REMARKS
					TOTAL MBH	SENS MBH	EAT DB/WB	MBH	EAT	MAX CFM	ESP	FLA	MAX WATTS	VOLTS	PHASE		NAME	MODEL NO.	
CDU-1	BACK OF HOUSE	SLIM DUCTED UNIT	51	R454B	48.6	29.6	77DB/64.4WB	39.5	68	1500	0.75	4	665	208	1	HP-1	CARRIER	45MBDA	ALL NOTES
CDU-2	BACK OF HOUSE	SLIM DUCTED UNIT	51	R454B	48.6	29.6	77DB/64.4WB	-	-	1500	0.75	4	665	208	1	CU-1	CARRIER	45MBDA	ALL NOTES
NOTES: ① PROVIDE WITH WIRED REMOTE CONTROL. CONTROLLER SHALL BE CAPABLE OF SENSING TEMPERATURE, ADJUSTING SET POINT, AND SETTING SCHEDULE. ② PROVIDE WITH BUILT-IN CONDENSATE PUMP WITH CHECK VALVE. CONDENSATE OVERFLOW SHUT-OFF SWITCH SHALL BE FIELD PROVIDED. ③ PROVIDE WITH INTEGRAL REFRIGERANT SENSOR.																			

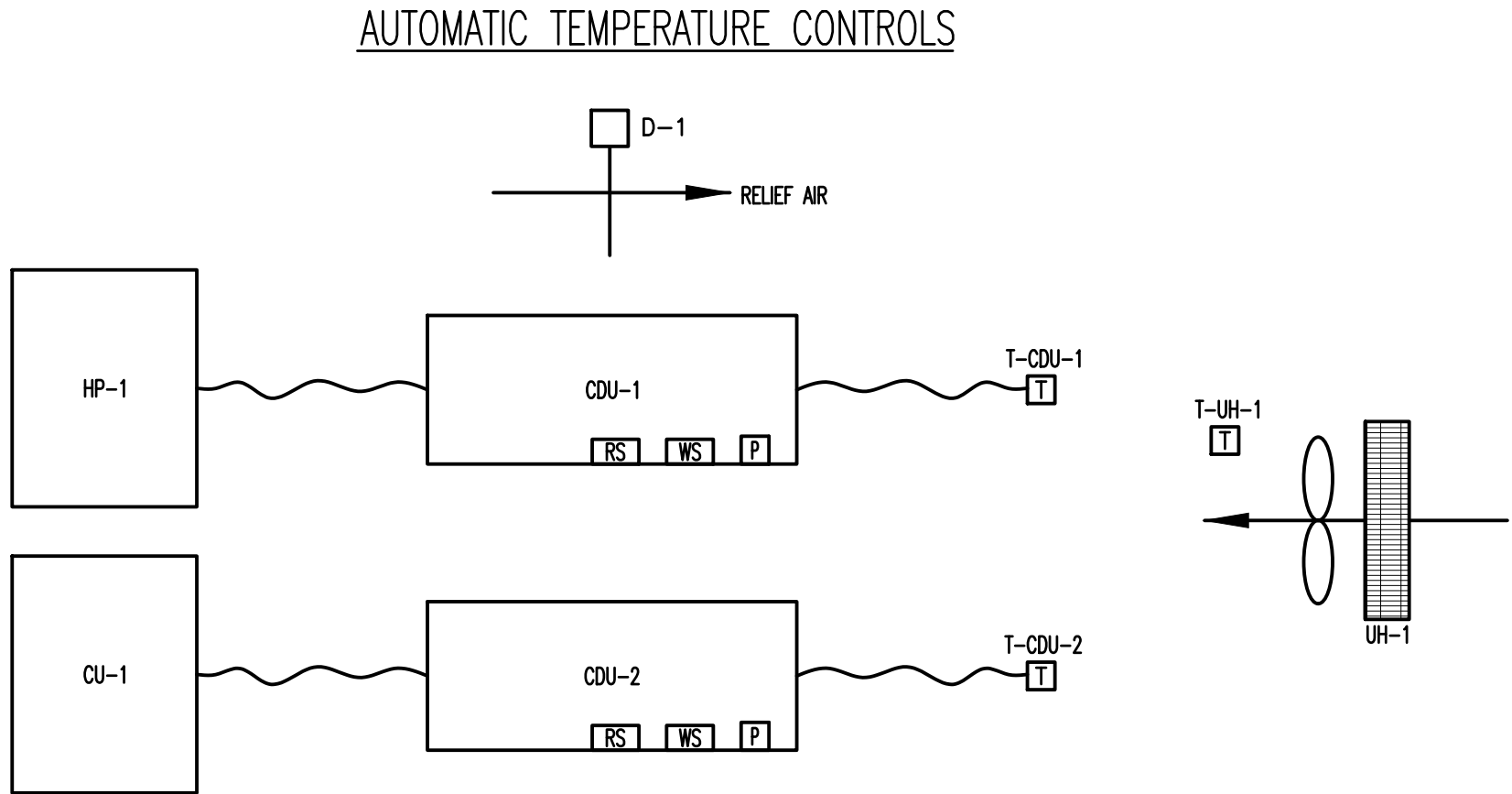
AIR COOLED HEAT PUMP SCHEDULE																						
DESIGN	LOCATION	TYPE	SOUND LEVEL (dB(A))	REFRIG TYPE	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	CONDENSER					COMPRESSOR		ELECTRICAL			ASSOCIATED CDU	MANUFACTURER		REMARKS		
							NUMBER OF FANS	FAN FLA	AMBIENT TEMP	LOW AMBIENT TEMP	CFM EACH	VOLTS	PHASE	QUANTITY	RLA	FLA		VOLTS	PHASE		NAME	MODEL NO.
HP-1	OUTSIDE	HEAT PUMP	62.5	R454B	48.6	39.5	2	1.2	95°F	0°F	2120	208	1	1	6.6	9	208	1	CDU-1	CARRIER	37MBHAQ	①
NOTES: ① CONTRACTOR TO CONFIRM MANUFACTURER'S RECOMMENDED REFRIGERANT PIPE SIZE.																						

AIR COOLED CONDENSING UNIT SCHEDULE																					
DESIGN	LOCATION	TYPE	SOUND LEVEL (dB(A))	REFRIG TYPE	COOLING CAPACITY (MBH)	CONDENSER						COMPRESSOR		ELECTRICAL			ASSOCIATED CDU	MANUFACTURER		REMARKS	
						NUMBER OF FANS	FAN FLA	AMBIENT TEMP	LOW AMBIENT TEMP	CFM EACH	VOLTS	PHASE	QUANTITY					RLA	NAME		MODEL NO.
														FLA	VOLTS	PHASE					
CU-1	OUTSIDE	CONDENSING UNIT	62.5	R454B	48.6	2	1.2	95F	32F	2120	208	1	1	6.6	9	208	1	CDU-2	CARRIER	37MBHA	①
NOTES: ① CONTRACTOR TO CONFIRM MANUFACTURER'S RECOMMENDED REFRIGERANT PIPE SIZE.																					

UNIT HEATER SCHEDULE											
DESIGN	LOCATION	CFM	HEATING CAP. BTUH	ELECTRIC HEATING COIL			VOLTS	PHASE	AMP	QMARK MODEL NUMBER	REMARKS
				KW	LATdb	EATdb					
UH-1	MECH ROOM	65	3413	1	98.6	50	120	1	12.5	CWH1000	(1)
NOTES: (1) PROVIDE WITH THERMOSTAT.											

SCHEDULE OF AIR DEVICES								
DESIGN	MAX AIRFLOW (CFM)	FACE SIZE	NECK SIZE	MAX. APD	AIR SERVICE	TYPE	TITUS MODEL	REMARKS
①	450	12x12	12x12	0.1	SA	DIFFUSER	TDC	① ③
②	1500	24x14	24x14	0.1	RA	FILTER GRILLE	35ORLF	① ②
③	1500	24x18	24x18	0.1	SA	GRILLE	30ORS	①
④	150	6x6	6x6	0.1	OA	GRILLE	35OFL	① ④
⑤	-	10x6	10x6	0.1	AT	GRILLE	35OFL	① ④
⑥	-	8x8	8x8	0.1	AT	GRILLE	35ORL	①
NOTES: ① PROVIDE SURFACE MOUNT BORDER. ② PROVIDE 2" MERV 8 FILTER FOR FILTER GRILLE. ③ PROVIDE BLOW PATTERN AS INDICATED ON PLAN. ④ PROVIDE ALUMINUM AIR DEVICE.								

VENTILATION CALCULATIONS						
ROOM NO.	ROOM NAME	AREA SQ.FT.	NO. OF OCCUPANTS	VENTILATION CALCULATIONS		REMARKS
				PEOPLE OUTDOOR AIRFLOW	AREA OUTDOOR AIRFLOW	
A101	FOOD PREP	187	1	1 PERSON X 7.5 CFM = 7.5 CFM	187 SQ.FT. X 0.12 CFM = 23 CFM	31 CFM ①
A102	FOOD SERVICE	232	2	2 PERSON X 7.5 CFM = 15 CFM	232 SQ.FT. X 0.12 CFM = 28 CFM	43 CFM ①
A103	FOOD PANTRY	83	0	0 PERSON X 7.5 CFM = 0 CFM	187 SQ.FT. X 0.12 CFM = 10 CFM	10 CFM ①
NOTES: ① OCCUPANCY CLASSIFICATION - FOOD AND BEVERAGE SERVICE (KITCHEN) PEOPLE OUTDOOR AIRFLOW RATE : 7.5 CFM/PERSON AREA OUTDOOR AIRFLOW RATE : 0.12 CFM/SQ.FT.				TOTAL (VBZ) 84 CFM		
② ZONE AIR DISTRIBUTION EFFECTIVENESS - 0.8				VBZ = VBZ/EZ VOZ = 84 CFM / 0.8 VOZ = 105 CFM		



SEQUENCE OF CONTROLS:

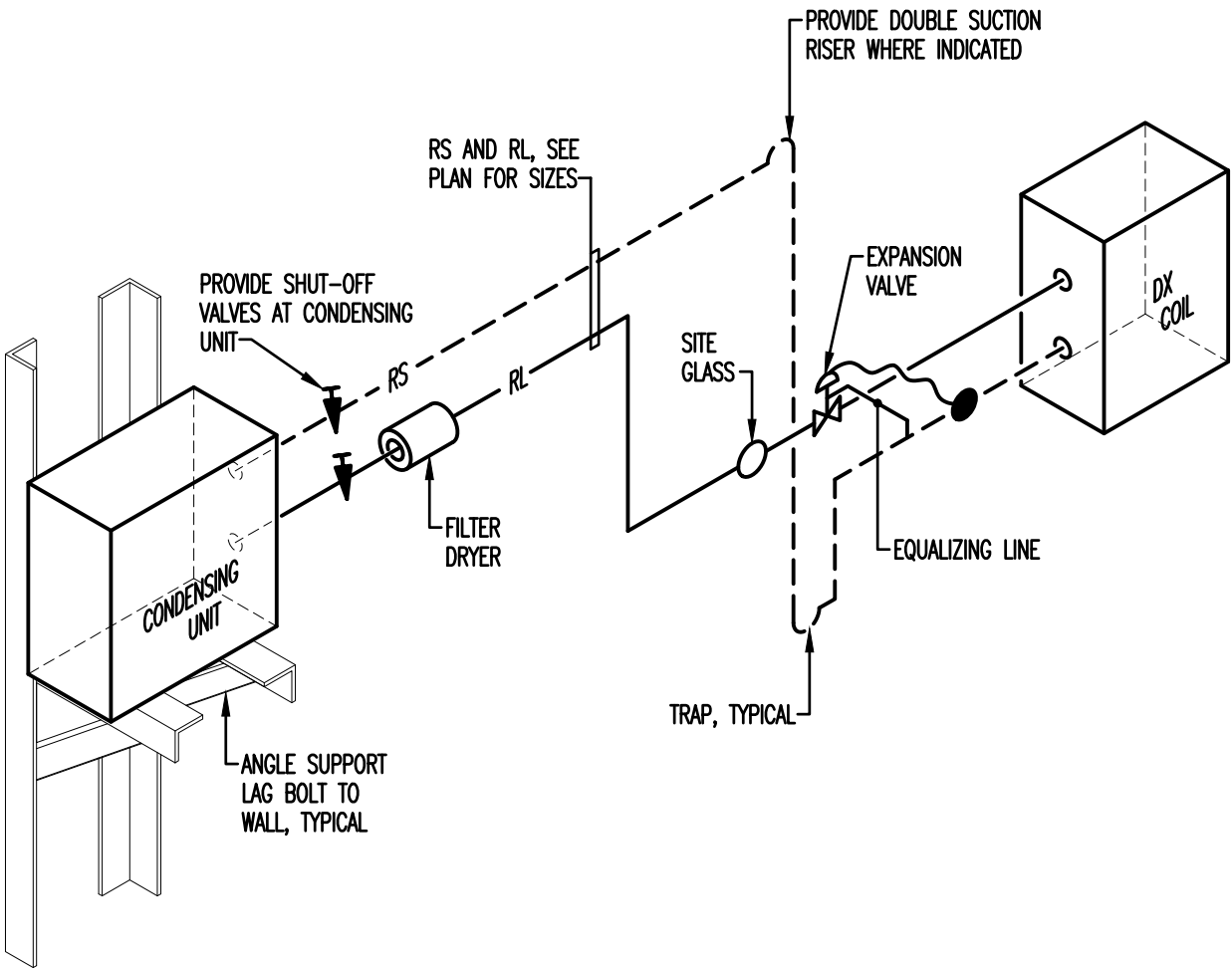
- EACH CDU SHALL HAVE IT'S OWN WIRED REMOTE CONTROLLER WHICH SHALL SENSE THE SPACE TEMPERATURE AND ALLOW ADJUSTMENT OF THE TEMPERATURE SETPOINT. DAILY SET BACK SCHEDULES SHALL ALSO BE CONFIGURABLE AT THE WIRED REMOTE CONTROLLER. RELIEF DAMPER SHALL OPEN UPON CDU-1 SUPPLY FAN BEING ENERGIZED AND SHALL CLOSE UPON CDU-1 BEING DE-ENERGIZED.
- THE CDU'S ON BOARD CONTROLS SHALL AUTOMATICALLY MODULATE THE FAN SPEED AND COMPRESSOR SPEED TO MAINTAIN THE ADJUSTABLE TEMPERATURE SET POINT AND MINIMIZE CYCLING THE COMPRESSOR. CDU-1 SHALL AUTOMATICALLY BEGIN HEATING WHEN THE SPACE TEMPERATURE DROPS LOWER THAN THE HEATING SET POINT.
- THE ADJUSTABLE SET POINTS SHALL INITIALLY BE CONFIGURED AS FOLLOWS:

COOLING OCCUPIED:
T-CDU-1: 72F
T-CDU-2: 74F

COOLING UNOCCUPIED:
T-CDU-1: 82F
T-CDU-2: 84F

HEATING OCCUPIED:
T-CDU-1: 70F

HEATING UNOCCUPIED:
T-CDU-1: 58F
- INTEGRAL CONDENSATE PUMP, P, SHALL DETECT CONDENSATE IN THE PAN AND ACTIVATE TO MAINTAIN CONDENSATE LEVELS IN THE PAN.
- INTERNAL WATER SENSOR, WS, SHALL SHUT-OFF CDU IN THE EVENT THAT CONDENSATE FILLS 75% OF THE DRAIN PAN.
- REFRIGERANT SENSOR, RS, SHALL UPON DETECTION OF A REFRIGERANT LEAK, OVER RIDE THE FAN TO 100% SPEED AND SHUT-OFF THE COMPRESSOR.
- IF TEMPERATURE AS SENSED BY SPACE THERMOSTAT T-UH-1 FALLS BELOW 60F, THEN ELECTRIC HEATER UNIT HEATER, UH-1, SHALL BE ENERGIZED. ON A RISE IN TEMPERATURE ABOVE SETPOINT AS SENSED BY T-UH-1, UNIT HEATER SHALL BE DE-ENERGIZED.



DETAIL - REFRIGERANT PIPING DIAGRAM
NOT TO SCALE

MECHANICAL LEGEND		
SYMBOL	ABBREV	DESCRIPTION
		NEW WORK
	CX	CONNECT NEW WORK TO EXISTING
	EX	EXISTING WORK TO REMAIN
	RX	REMOVE EXISTING WORK
		RELOCATED WORK
	RL	REFRIGERANT LIQUID
	RS	REFRIGERANT SUCTION
	CD	CONDENSATE DRAIN
	G	GAS
		SHUT OFF VALVE IN RISER
		GATE VALVE, GLOBE VALVE
		CHECK VALVE
		STATIONARY FLOW METER,PORTABLE FLOW METER, GPM
	BFP	BACK FLOW PREVENTER
		BALANCING VALVE
		TEMPERATURE CONTROL VALVE(2 WAY,3 WAY)
		PRESSURE REDUCING VALVE
		RELIEF OR SAFETY VALVES
		BUTTERFLY VALVE
		MANUAL AIR VENT
		AUTOMATIC AIR VENT
		STRAINER
		UNION
	T'STAT	THERMOSTAT
		THERMOMETER
		PRESSURE GAUGE
		PIPE TURNED UP, PIPE TURNED DOWN
	FC	FLEXIBLE CONNECTION
	FD	FIRE DAMPER
	VD	VOLUME DAMPER
	MOD	MOTOR OPERATED DAMPER
	SD	SMOKE DAMPER
	F3	SMOKE DUCT DETECTOR
		SUPPLY DUCT TURNED UP, TURNED DOWN
		RETURN DUCT TURNED UP, TURNED DOWN
		DIRECTION OF RISE IN DUCT
		SQUARE TO ROUND TRANSITION
		REFER TO NOTE 1 ON THIS SHEET
	AFF	ABOVE FINISHED FLOOR
	AHU	AIR HANDLING UNIT
	FCU	FAN COIL UNIT
	DSD	DUCT SMOKE DETECTOR
	CLG	CEILING
	CFM	CUBIC FEET PER MINUTE
	DN	DOWN
	EF	EXHAUST FAN
	EXH	EXHAUST
	OA	OUTSIDE AIR
	SA	SUPPLY AIR
	TYP	TYPICAL
	CU	CONDENSING UNIT
	HP	HEAT PUMP
	CDU	CONCEALED DUCTED UNIT

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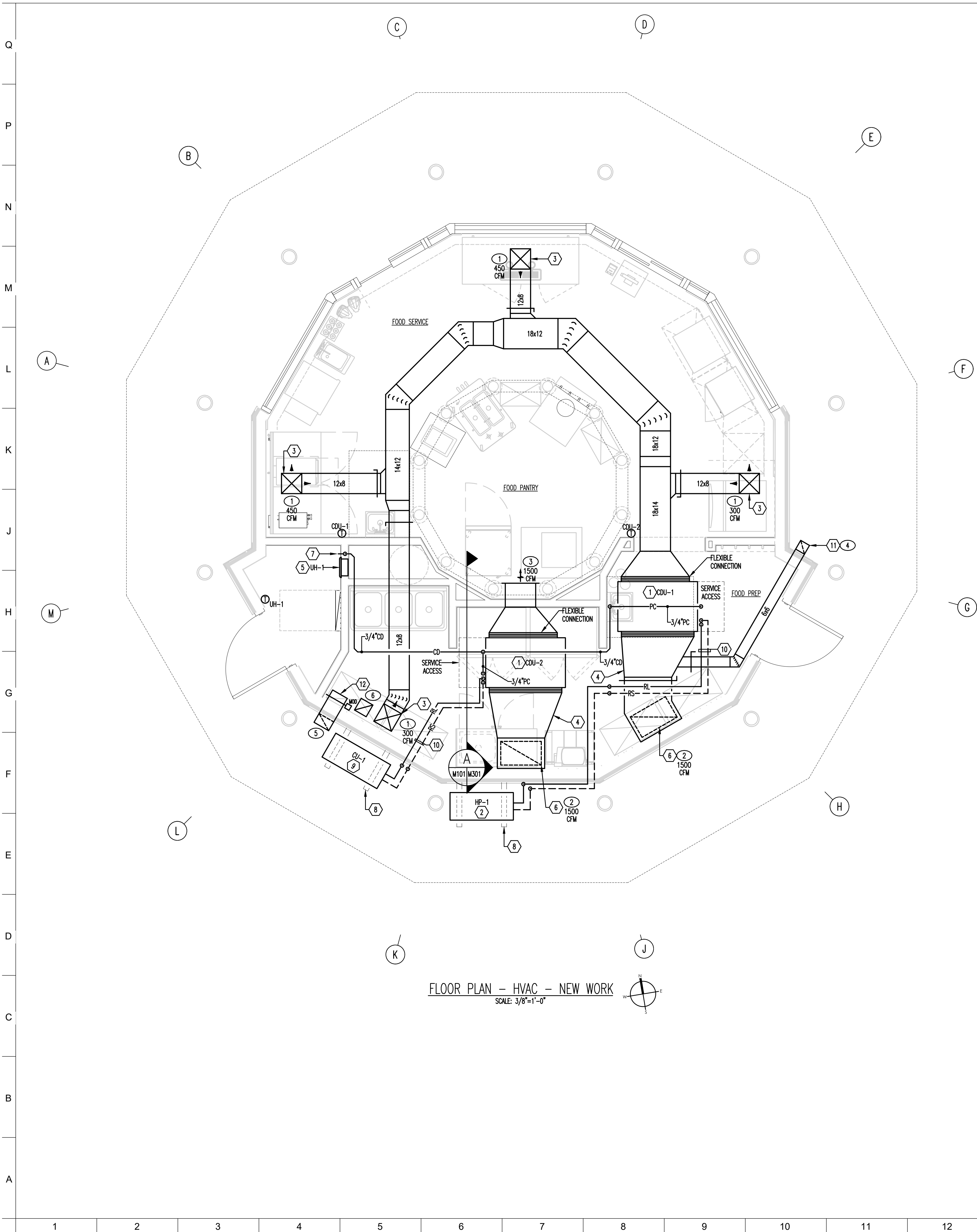
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DRAWING TITLE:
MECHANICAL LEGEND
AND SCHEDULES

DRAWING NO:
M-001



DRAWING NOTES:

1. PROVIDE CONCEALED SLIM DUCTED FAN COIL UNIT IN ATTIC SPACE ABOVE CEILING. MOUNT CDU TO STRUTS SECURED TO STRUCTURAL JOISTS.
2. PROVIDE HEAT PUMP FOR CDU-1. REFER TO SCHEDULE AND DETAILS.
3. 12x8 BRANCH WITH ELBOW DOWN TO 12x12 SA DUCT AND DIFFUSER.
4. PROVIDE TRANSITION FROM 28x8 RA DUCT TO INLET OF CDU. FINAL CONNECTION TO CDU SHALL BE WITH FLEXIBLE CONNECTION.
5. PROVIDE RECESSED WALL MOUNTED UNIT HEATER 78" AFF.
6. 24x14 RA GRILLE TO 28x8 RA DUCT.
7. PROVIDE 3/4"CD TO MECHANICAL ROOM FLOOR DRAIN.
8. MOUNT CU AND HP TO EXTERIOR WALL, 18" ABOVE GRADE. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCE BETWEEN WALL AND OUTDOOR UNIT.
9. PROVIDE CONDENSING UNIT CDU-2. REFER TO SCHEDULE AND DETAILS.
10. PROVIDE 7/8"RS AND 1/2"RL PIPING ABOVE CEILING FROM CDC THEN ALONG EXTERIOR WALL TO OUTDOOR UNITS. CONTRACTOR TO CONFIRM MANUFACTURER'S RECOMMENDED PIPE SIZES.
11. PROVIDE AIR DEVICE MOUNTED TO EXTERIOR SOFFIT. BALANCE AIR DEVICE TO BE 10% OF CDU-1 AIR FLOW AT ANY FAN SPEED.
12. 10x6 OPEN END RELIEF DUCT.

BALANCE NOTES:

1. AIR FLOWS ON PLAN ARE APPROXIMATE TO THE "HIGH" FAN SETTING OF EACH CDU. BALANCE EACH AIR DEVICE WITH THE FAN SET TO "HIGH".

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SUBMISSION DATE

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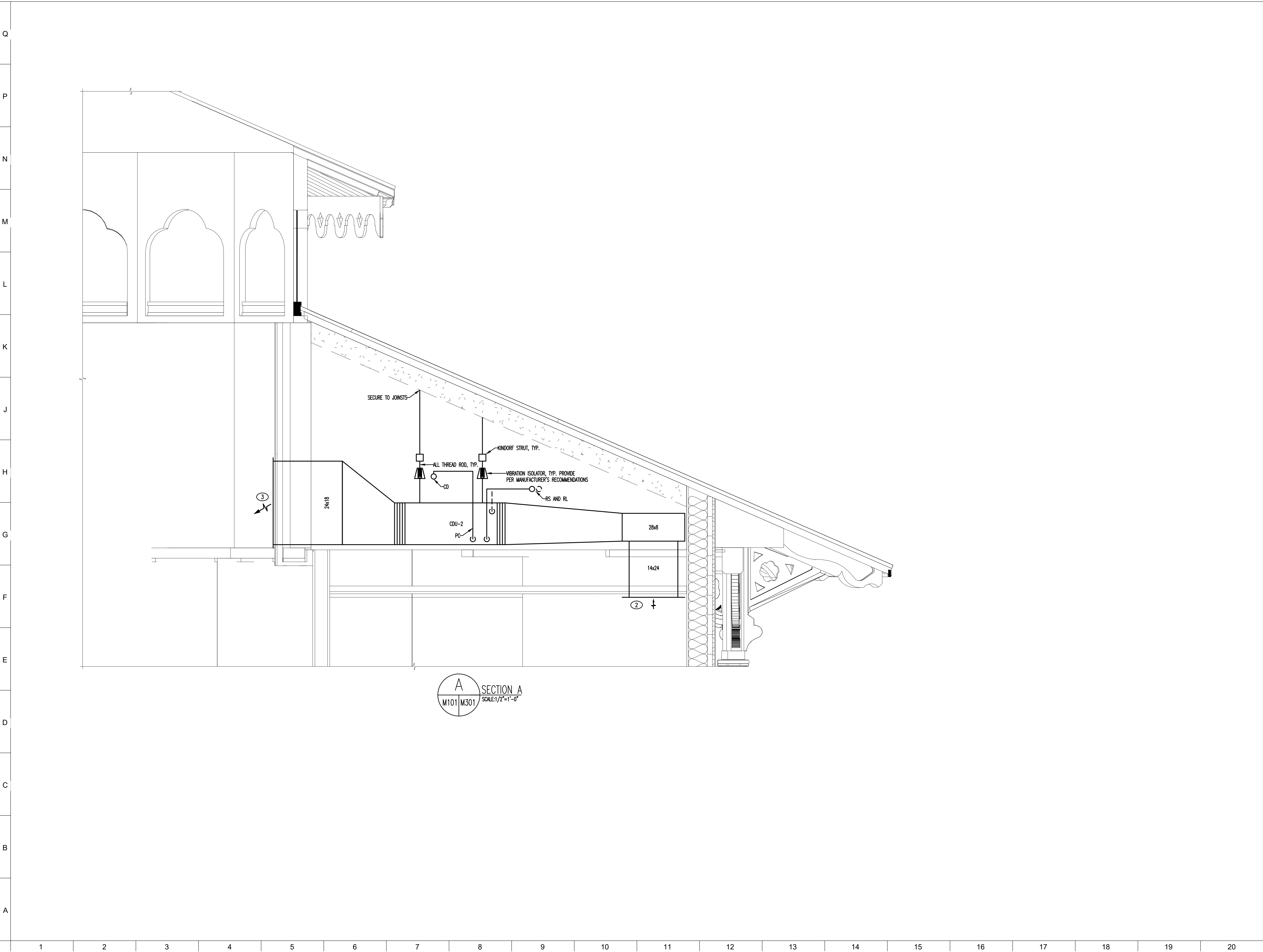
DATE

DRAWING TITLE:

FLOOR PLAN - HVAC -
NEW WORK

DRAWING NO:

M-101



PROJECT TEAM:

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DRAWING TITLE:
SECTION A

DRAWING NO:
M-301

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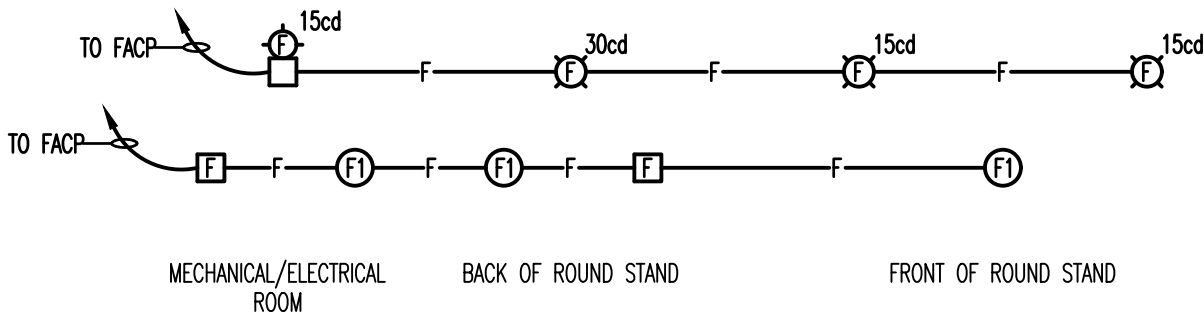
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LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER	LAMPS	VOLTS	REMARKS
A	5' LINEAR DIRECT LED FIXTURE, SURFACE MOUNTED, FROSTED LENS, STANDARD 0-10V DIMMING (1%-100%)	KLUS #B8441-A-FC-35-1440/1-24-60-GP-TBD-IP65	LED 477/FT 9W/FT	24V	
B	6" ROUND RECESSED LED DOWNLIGHT, RECESSED, HARD CEILING, STANDARD 0-10V DIMMING (1%-100%)	COOPER LIGHTING SOLUTIONS #LD6C-15-90-35-D010-W-0-H	LED 834L 9.8W	120/277	
BE	SAME AS FIXTURE 'B' BUT WITH EMERGENCY BATTERY PACK	COOPER LIGHTING SOLUTIONS #LD6C-15-90-35-D010-W-0-H-EMB006ST	LED 834L 9.8W	120/277	PROVIDE BATTERY PACK AND SELF-DIAGNOSTIC FIXTURES
C	4" ROUND RECESSED LED DOWNLIGHT, RECESSED, HARD CEILING, STANDARD 0-10V DIMMING (1%-100%)	COOPER LIGHTING SOLUTIONS #LD4C-05-90-35-D010-W-0-H	LED 554L 7.2W	120/277	
D	8"x4" LINEAR DIRECT LED FIXTURE, POLYCARBON LENS, SURFACE MOUNT	COOPER LIGHTING SOLUTIONS #HVS LB-4-LD4-2LO-35-U-0-EDD-1	LED 5000L 46W	120/277	
DE	SAME AS FIXTURE 'D' BUT WITH EMERGENCY BATTERY PACK	COOPER LIGHTING SOLUTIONS #HVS LB-4-LD4-2LO-35-U-0-EDD-1-ELT0WS0	LED 5000L 46W	120/277	PROVIDE BATTERY PACK AND SELF-DIAGNOSTIC FIXTURES
F	24" SURFACE MOUNTED LED LINEAR STRIP FIXTURE, STEEL HOUSING, NO DIFFUSER, WHITE FINISH	COOPER LIGHTING SOLUTIONS #2SNX-19SL-LW-UNV-L835-CD-1-ELT0WS0	LED 1900L 12W	120/277	
G	WALL MOUNTED SEALED AND GASKETED ARCHITECTURAL FIXTURE, REGRESSED DIFFUSED LENS, ALUMINUM HOUSING BLACK FINISH	LITHONIA #ARC2LED-P4-30K-MVOLT-DBLXD	LED 4000L 30W	120/277	
X	EXIT SIGN, SINGLE SIDED, ALUMINUM HOUSING, GREEN LETTERING, UNIVERSAL	EMERG-LITE #BA-P-2-G	LED 2W	120/277	

SYMBOL	DESCRIPTION
	4' LIGHT FIXTURE FIXTURE
	5' LIGHT FIXTURE
	STRIP FIXTURE
	RECESSED DOWNLIGHT
	EXTERIOR WALL LIGHT WITH EMERGENCY BATTERY PACK
	EXIT LIGHT WITH DIRECTIONAL ARROWS AS INDICATED; CEILING/ WALL MTD; SHADED PORTION DENOTES LIGHTED FACE
	SINGLE POLE SWITCH; SUBSCRIPT DENOTES SWITCHING SCHEME; MH=48" AFF
	THREE-WAY SWITCH; MH=48" FF
	0-10VDC DIMMER SWITCH; MH=48" AFF
	TIMER SWITCH; MH=48" FF
	OCCUPANCY SENSOR; CEILING MOUNTED
	PHOTOCELL SENSOR; CEILING MOUNTED
	OCCUPANCY SENSOR POWER PACK

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE; MH=18" AFF
	DOUBLE DUPLEX RECEPTACLE; MH=18" AFF
	SPECIAL RECEPTACLE; NEMA CONFIGURATION AS INDICATED; MH=18" AFF
	OUTLET BOX WITH BLANK COVERPLATE; MH=18" AFF
	JUNCTION BOX; CEILING/WALL MOUNTED
	DATA OUTLET; MH=18" AFF
	WiFi REPEATER; CEILING MOUNTED
	FLUSH FLOOR/CEILING MOUNTED TELEPHONE OUTLET
	EXISTING ELECTRIC PANELBOARD
	NEW ELECTRIC PANELBOARD
	DISCONNECT SWITCH
	UNIT CIRCUIT BREAKER
	MANUAL MOTOR STARTER SWITCH

SYMBOL	DESCRIPTION
	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM HEAT DETECTOR
	FIRE ALARM DUCT SMOKE DETECTOR
	FIRE ALARM FLAME DETECTOR
	FIRE ALARM MANUAL PULLSTATION; MH=48" AFF
	FIRE ALARM BELL; MH=80" AFF
	FIRE ALARM CHIME; MH=80" AFF
	FIRE ALARM STROBE; MH=48" AFF
	FIRE ALARM STROBE; CEILING MOUNT
	FIRE ALARM AUDIO/VISUAL DEVICE; MH=80" AFF
	FIRE ALARM AUDIO/VISUAL DEVICE; CEILING MOUNT
	FIRE ALARM DUCT SMOKE DETECTOR REMOTE TEST SWITCH
	FIRE ALARM REMOTE INDICATOR LIGHT
	FIRE ALARM ANNUNCIATOR
	FIRE ALARM CONTROL PANEL
	FIRE ALARM WIRING IN CONDUIT
	WIRE IN CONDUIT; HATCH MARKS DENOTE QUANTITY OF #12 CONDUCTORS IN 3/4"; UNLESS INDICATED OTHERWISE; ARROW DENOTES HOME RUN TO PANEL INDICATED
	LOW VOLTAGE WIRING
	NEW WORK
	EXISTING WORK TO REMAIN
	REMOVE EXISTING WORK
	DATA WIRING IN CONDUIT BELOW FLOOR.



BKP

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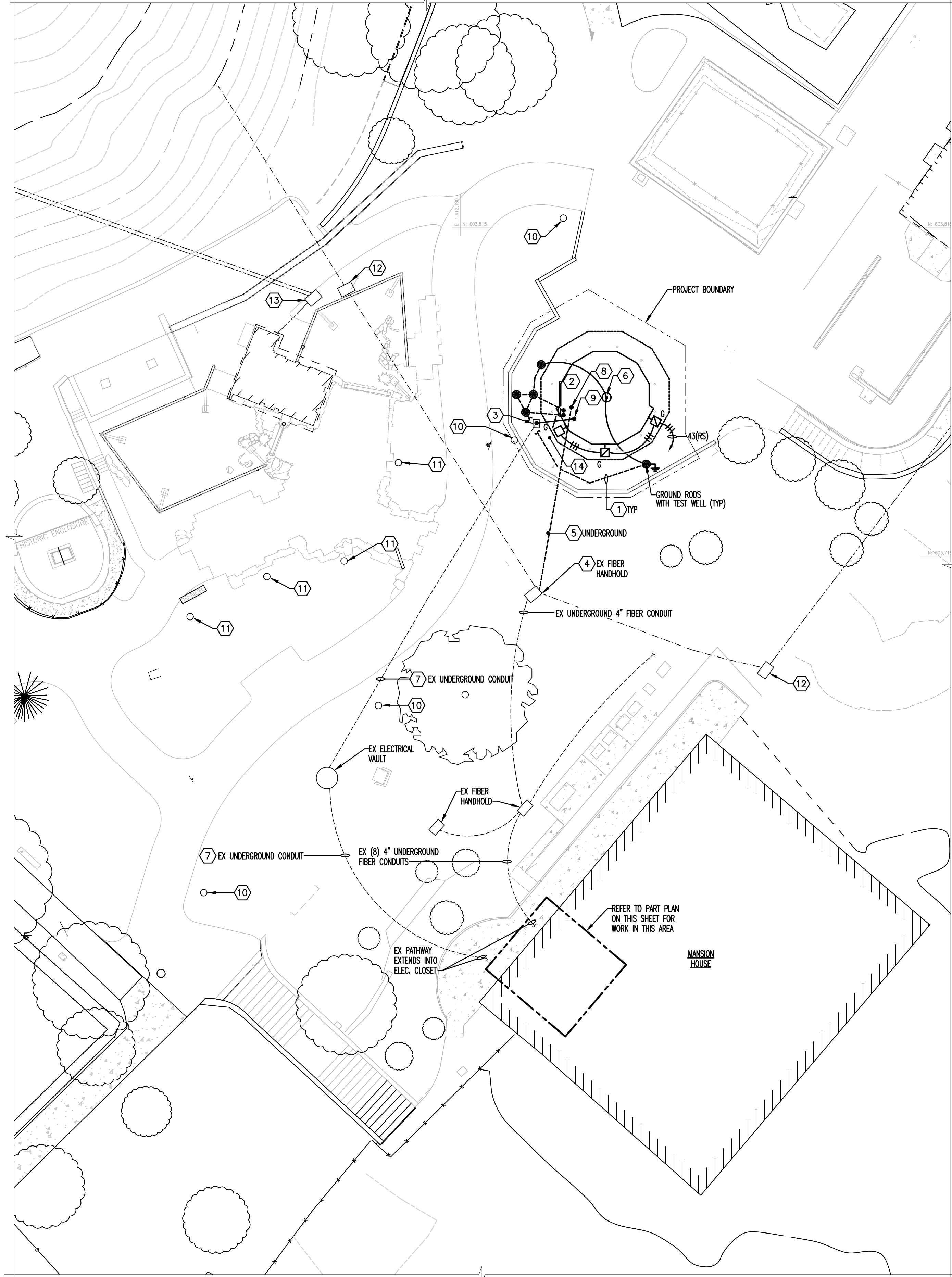
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LEGEND

DRAWING NO:

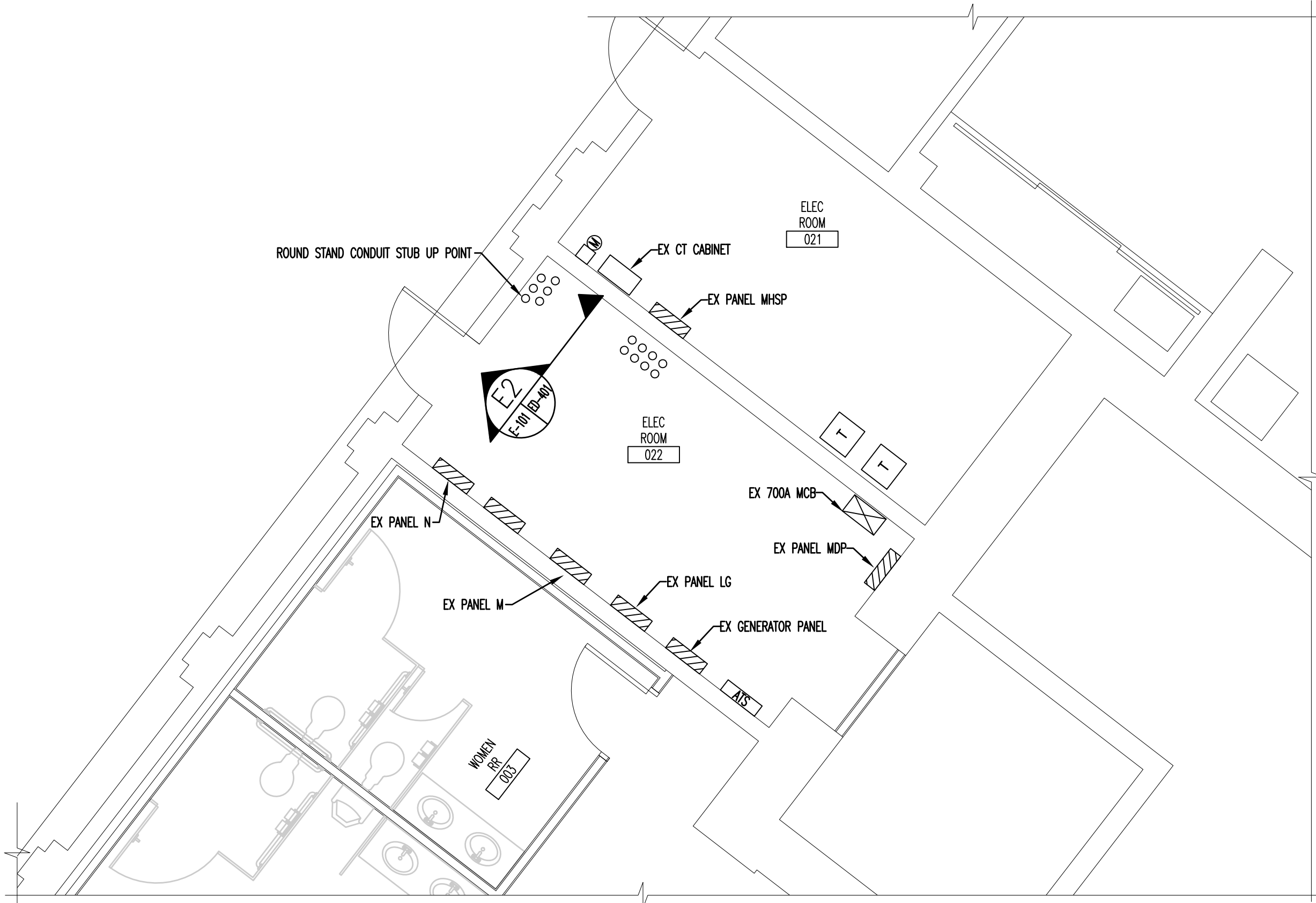
E-001

10952 - MARYLAND ZOO ROUND STAND

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SITE PLAN – ELECTRICAL – NEW WORK
SCALE: 1"=20'



PART MANSION HOUSE – ELECTRICAL – NEW WORK
SCALE: 1/4"=1'-0"

DRAWING NOTES:

1. PROVIDE BARE COPPER GROUND WIRE.
2. EXTEND TO NEW GROUND BUS BAR IN ELECTRICAL CLOSET.
3. EXISTING ELECTRIC HANDHOLE. EXTEND NEW FEEDER TO ROUNDSTAND BUILDING. REFER TO RISER DIAGRAM ON SHEET E-701 FOR MORE INFORMATION.
4. EXISTING 12 STRAND SPLICE POINTS PROVIDED IN RED PANDA PROJECT. SPLICE NEW WITH EXISTING FIBER CONNECTIONS. EXTEND ACCORDINGLY.
5. EXTEND NEW 12-STRAND SM FO. FIBER OPTIC CABLE TO ROUNDSTAND BUILDING. PROVIDE NEW 2" HDPE BY DIRECT BORING.
6. PROVIDE AIR TERMINAL ROD MOUNTED TO ROOF OF BUILDING TYPICAL.
7. PROVIDE AND PULL NEW ROUNDSTAND FEEDER. REFER TO RISER DIAGRAM FOR MORE INFORMATION.
8. PROVIDE 2" STUB UP BELOW WALL MOUNTED TELECOM BACKBOARD.
9. NEW CONDUIT TO STUB UP INTO MECHANICAL/ELECTRICAL CLOSET.
10. EXISTING POLE MOUNTED VICTORIAN LED WITH GFI RECEPTACLES.
11. EXISTING GOOSENECK LIGHTS AND GFI RECEPTACLES MOUNTED ON WOODEN POLE.
12. EXISTING TELECOM HANDBOX.
13. EXISTING ELECTRICAL HANDBOX.
14. PORTION OF NEW UNDERGROUND FEEDER AND CONDUIT.



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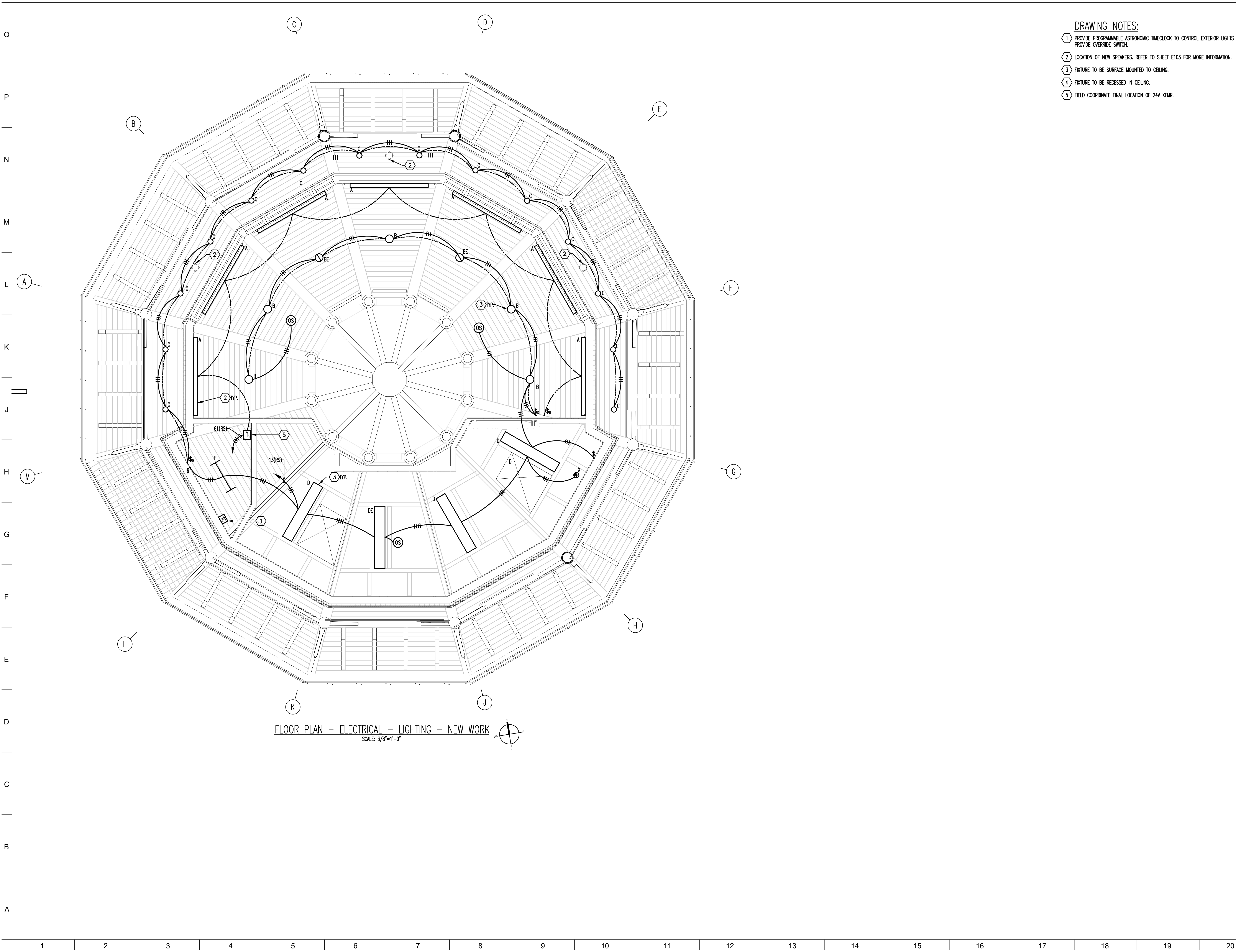
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DRAWING TITLE:
SITE PLAN

DRAWING NO:
E-101

10952 - MARYLAND ZOO ROUND STAND



- DRAWING NOTES:**
- 1 PROVIDE PROGRAMMABLE ASTRONOMIC TIMECLOCK TO CONTROL EXTERIOR LIGHTS
PROVIDE OVERRIDE SWITCH.
 - 2 LOCATION OF NEW SPEAKERS. REFER TO SHEET E103 FOR MORE INFORMATION.
 - 3 FIXTURE TO BE SURFACE MOUNTED TO CEILING.
 - 4 FIXTURE TO BE RECESSED IN CEILING.
 - 5 FIELD COORDINATE FINAL LOCATION OF 24V XFMR.



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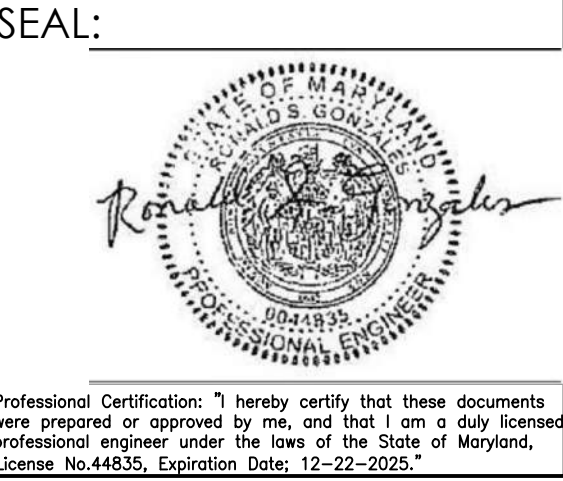
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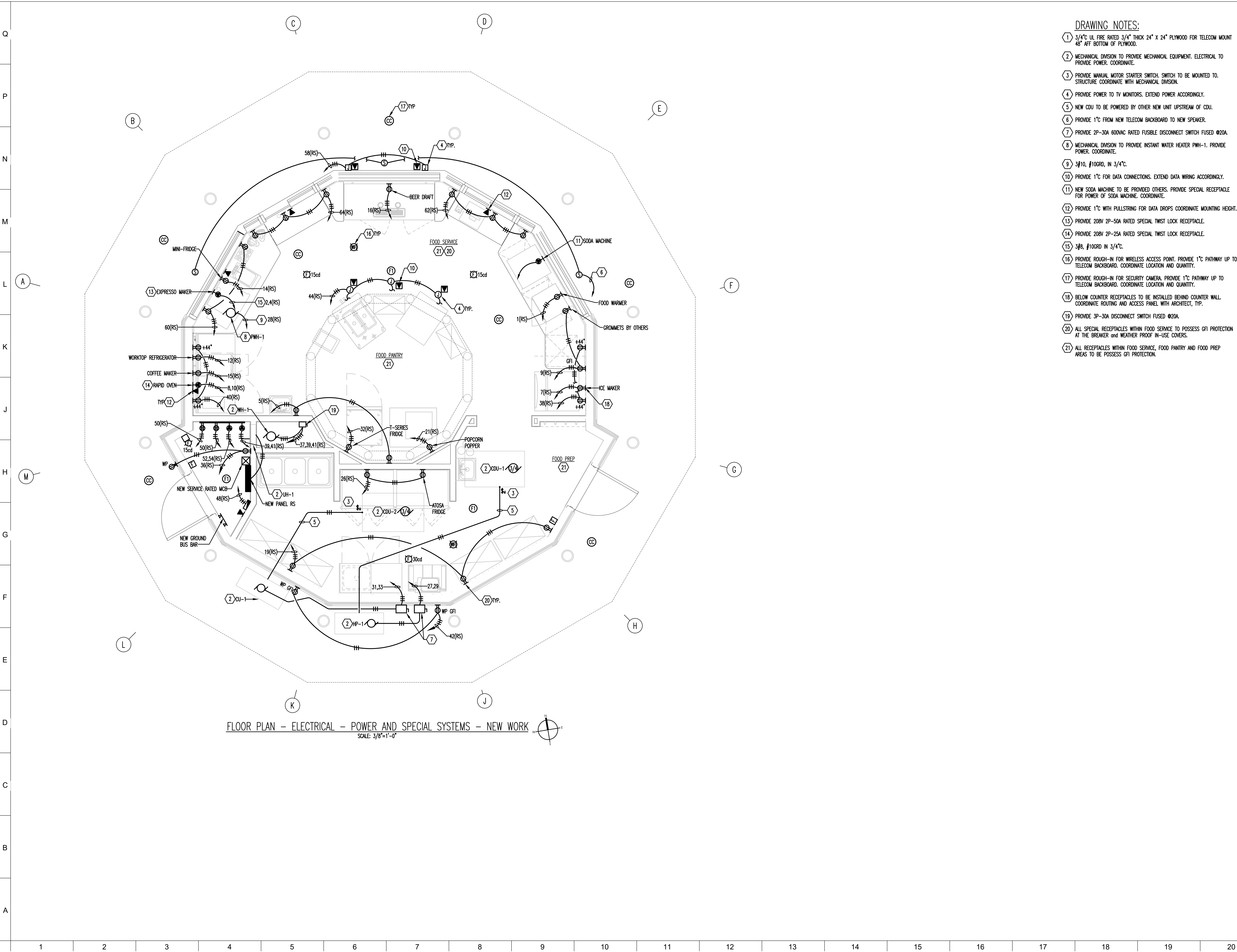
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DRAWING TITLE:
FLOOR PLAN -
LIGHTING - NEW WORK

DRAWING NO:
E-102



- DRAWING NOTES:**
- 3/4" UL FIRE RATED 3/4" THICK 24" X 24" PLYWOOD FOR TELECOM MOUNT 48" AFF BOTTOM OF PLYWOOD.
 - MECHANICAL DIVISION TO PROVIDE MECHANICAL EQUIPMENT. ELECTRICAL TO PROVIDE POWER. COORDINATE.
 - PROVIDE MANUAL MOTOR STARTER SWITCH. SWITCH TO BE MOUNTED TO STRUCTURE COORDINATE WITH MECHANICAL DIVISION.
 - PROVIDE POWER TO TV MONITORS. EXTEND POWER ACCORDINGLY.
 - NEW CDU TO BE POWERED BY OTHER NEW UNIT UPSTREAM OF CDU.
 - PROVIDE 1" FROM NEW TELECOM BACKBOARD TO NEW SPEAKER.
 - PROVIDE 2P-30A 600VAC RATED FUSIBLE DISCONNECT SWITCH FUSED @20A.
 - MECHANICAL DIVISION TO PROVIDE INSTANT WATER HEATER PMH-1. PROVIDE POWER. COORDINATE.
 - 3/10, #10GRD, IN 3/4".
 - PROVIDE 1" FOR DATA CONNECTIONS. EXTEND DATA WIRING ACCORDINGLY.
 - NEW SODA MACHINE TO BE PROVIDED OTHERS. PROVIDE SPECIAL RECEPTACLE FOR POWER OF SODA MACHINE. COORDINATE.
 - PROVIDE 1" WITH PULLSTRING FOR DATA DROPS COORDINATE MOUNTING HEIGHT.
 - PROVIDE 208V 2P-50A RATED SPECIAL TWIST LOCK RECEPTACLE.
 - PROVIDE 208V 2P-25A RATED SPECIAL TWIST LOCK RECEPTACLE.
 - 3/8, #10GRD IN 3/4".
 - PROVIDE ROUGH-IN FOR WIRELESS ACCESS POINT. PROVIDE 1" PATHWAY UP TO TELECOM BACKBOARD. COORDINATE LOCATION AND QUANTITY.
 - PROVIDE ROUGH-IN FOR SECURITY CAMERA. PROVIDE 1" PATHWAY UP TO TELECOM BACKBOARD. COORDINATE LOCATION AND QUANTITY.
 - BELOW COUNTER RECEPTACLES TO BE INSTALLED BEHIND COUNTER WALL. COORDINATE ROUTING AND ACCESS PANEL WITH ARCHITECT, TYP.
 - PROVIDE 3P-30A DISCONNECT SWITCH FUSED @20A.
 - ALL SPECIAL RECEPTACLES WITHIN FOOD SERVICE TO POSSESS GFI PROTECTION AT THE BREAKER and WEATHER PROOF IN-USE COVERS.
 - ALL RECEPTACLES WITHIN FOOD SERVICE, FOOD PANTRY AND FOOD PREP AREAS TO BE POSSESS GFI PROTECTION.

BKP

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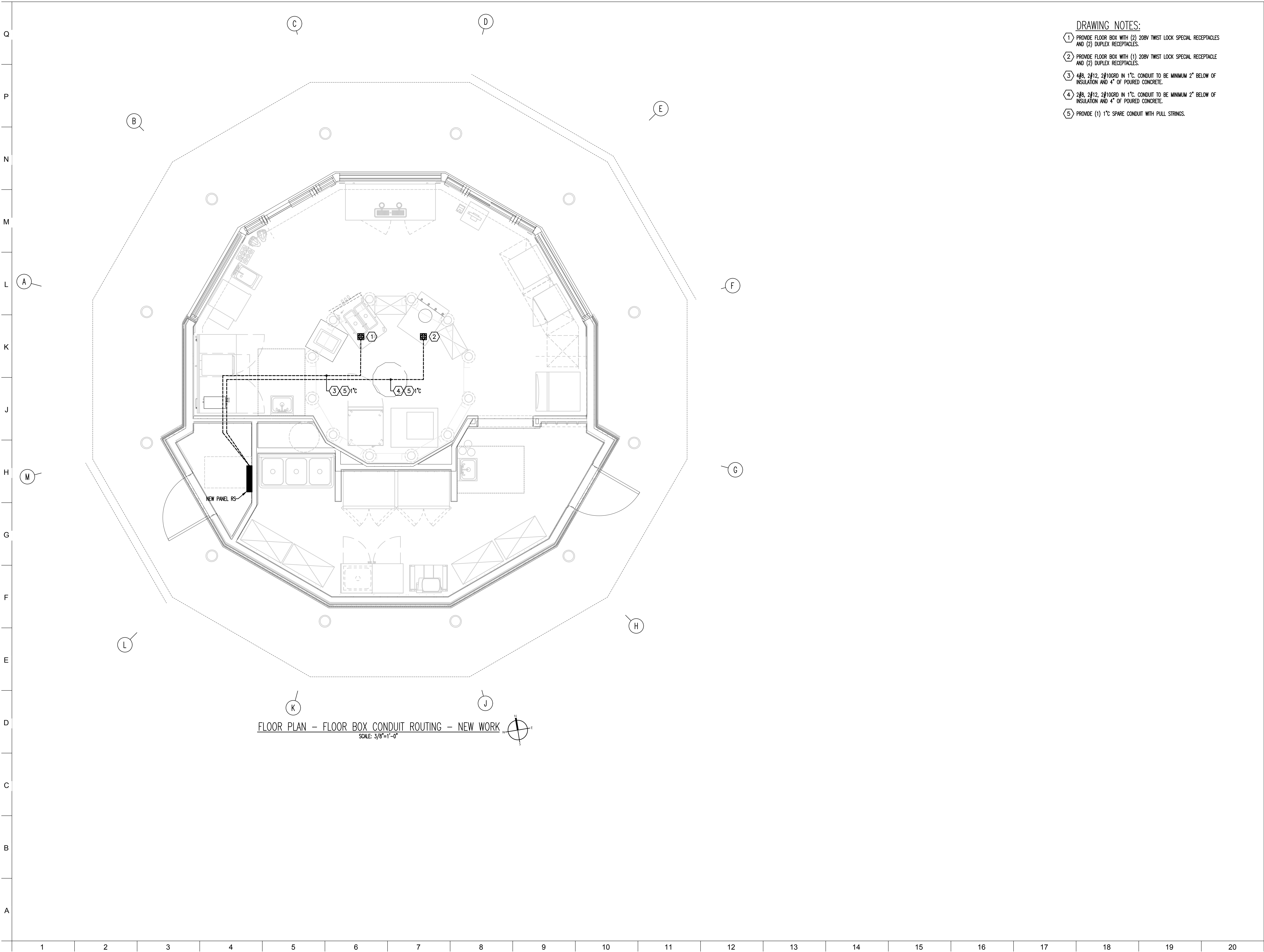
Ronald S. Stangor

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DRAWING TITLE:
FLOOR PLAN - POWER
AND SPECIAL SYSTEMS -
NEW WORK

DRAWING NO:
E-103



DRAWING NOTES:

- 1 PROVIDE FLOOR BOX WITH (2) 208V TWIST LOCK SPECIAL RECEPTACLES AND (2) DUPLEX RECEPTACLES.
- 2 PROVIDE FLOOR BOX WITH (1) 208V TWIST LOCK SPECIAL RECEPTACLE AND (2) DUPLEX RECEPTACLES.
- 3 4#8, 2#12, 2#10GRO IN 1" CONDUIT TO BE MINIMUM 2" BELOW OF INSULATION AND 4" OF POURED CONCRETE.
- 4 2#8, 2#12, 2#10GRO IN 1" CONDUIT TO BE MINIMUM 2" BELOW OF INSULATION AND 4" OF POURED CONCRETE.
- 5 PROVIDE (1) 1" SPARE CONDUIT WITH PULL STRINGS.



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DRAWING TITLE:
FLOOR PLAN - FEEDER
ROUTING - NEW WORK

DRAWING NO:
E-104

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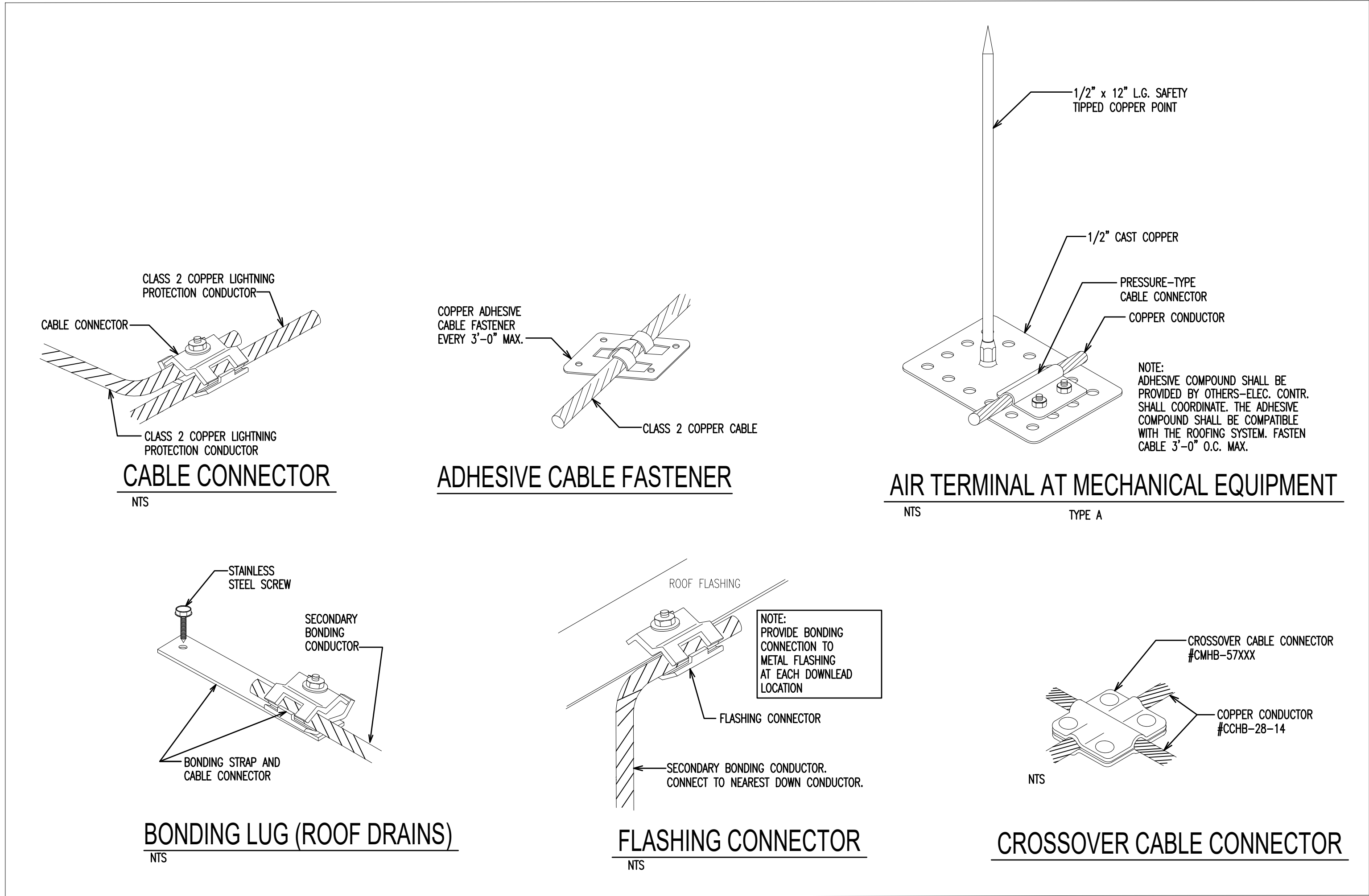
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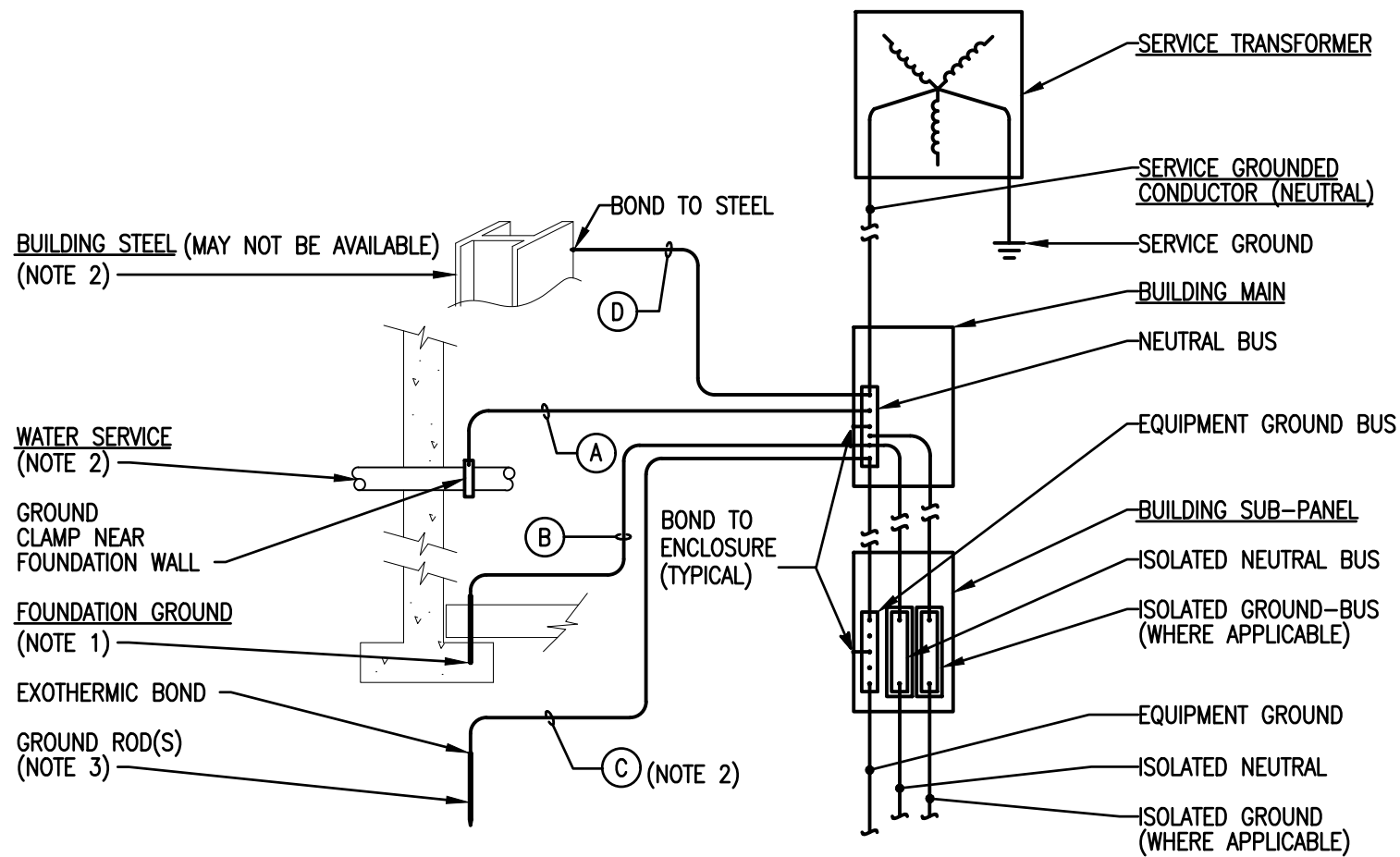
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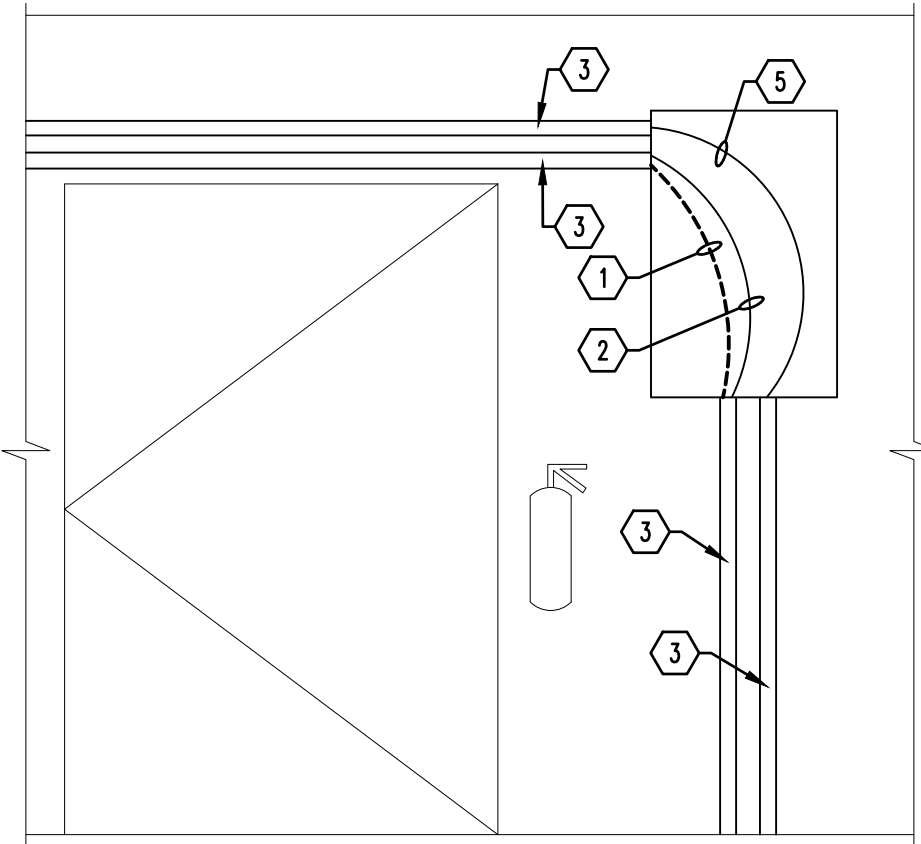
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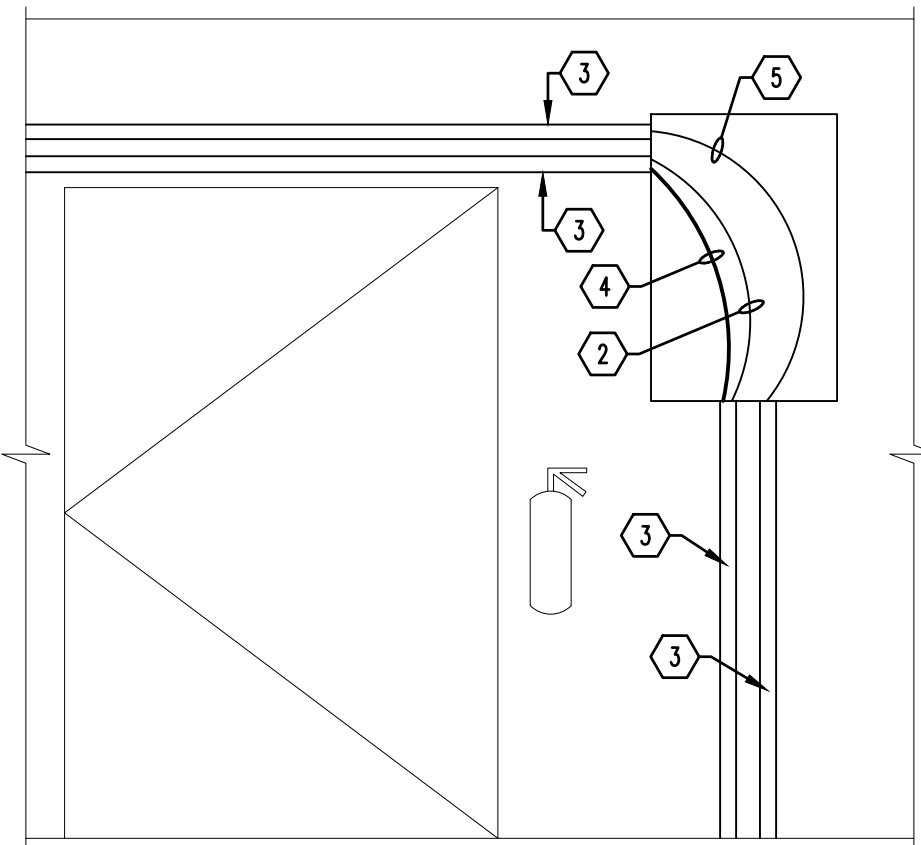
MAIN GROUNDING ELECTRODE DETAIL
NO SCALE

- GROUNDING NOTES:**
- CONCRETE ENCASED ELECTRODE (SEE DETAIL).
 - IF CONTINUOUS METALLIC WATER PIPE OR BUILDING STEEL IS NOT AVAILABLE THEN GROUND ROD ELECTRODE SHALL BE FULL SIZE.
 - ADDITIONAL RODS SHALL BE ADDED AS NEEDED FOR TOTAL RESISTANCE OF 25 OHMS OR LESS. PROVIDE GROUND WELL.

GROUND CONDUCTOR TABLE				
SERVICE SIZE	A	B	C	D
175	#1/0	#4	#6	#1/0
NOTES: 1. THE ABOVE CHART GIVES MINIMUM COPPER GROUND SIZES.				



E1
ELEVATION
ED-101 ED-401
NOT TO SCALE



E2
ELEVATION
ED-101 ED-401
NOT TO SCALE

- DRAWING NOTES:**
- RX ROUND STAND FEEDER WIRING (ALUMINUM).
 - EXISTING TO REMAIN PANEL P FEEDER WIRING.
 - EXISTING TO REMAIN CONDUIT.
 - PROVIDE NEW FEEDER 4#4/0, #6GRD.
 - EXISTING TO REMAIN.

BKP

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DATE: AUGUST 10, 2026	
PROJECT NO: 2023-10.08	
DRAWN BY	KWA
CHECKED BY	KWA
SUBMISSION	DATE
BID SET	08/10/2026
REVISION	DATE

DRAWING TITLE:

DETAILS

DRAWING NO:

E-401

RX PANEL RS SCHEDULE														
VOLTAGE:		120 / 240		BUS: 100A		MOUNTING: SURFACE				MANUF: SQUARE D				
PHASE:		1		MAIN: MLO		LOCATION: ROUND STAND								
WIRE:		3				FEED FROM: NOTE 6:				TYPE: QO				
AIC:		10,000												
CKT	DESCRIPTION	BREAKER		LOAD		NOTES	LOAD		BREAKER		DESCRIPTION	CKT		
		POLE	TRIP	KVA	PHASE		PHASE	KVA	TRIP	POLE				
1	CART CHARGER RECEPT 1	1	20	EX	A			A	EX	50	3	EX CIRCUIT	2	
3	CART CHARGER RECEPT 2	1	20	EX	B			B					4	
5	CART CHARGER RECEPT 3	1	20	EX	C			C					6	
7	CART CHARGER RECEPT 4	1	20	EX	A			A	EX	20	1	EX CIRCUIT	8	
9	CART CHARGER RECEPT 5	1	20	EX	B			B	EX	20	2	EX CIRCUIT	10	
11	CART CHARGER RECEPT 6	1	20	EX	C			C					12	
13	CART CHARGER LTS	1	20	EX	A			A	EX	20	2	ICE MAKER	14	
15	PRETZEL OVEN	2	20	EX	B			B					16	
17					C			C	EX	30	1	EX CIRCUIT	18	
19	EX CIRCUIT	1	20	EX	A			A	EX	20	1	CASH , LTS FRONT	20	
21	EX CIRCUIT	1	20	EX	B			B	EX	20	1	EX CIRCUIT	22	
23	FAN BUTTON	1	20	0	C			C	EX	20	1	EX CIRCUIT	24	
25		1	20	EX	A			A	EX	20	1	EX CIRCUIT	26	
27	ICE CREAM MACHINE	2	30	EX	B			B	EX	20	1	EX CIRCUIT	28	
29					C			C	EX	20	1	EX CIRCUIT	30	
31	ICE CREAM MACHINE	2	30	EX	A			A	EX	20	1	EX CIRCUIT	32	
33					B			B	EX	20	1	EX CIRCUIT	34	
35	ISOLATED GRD CASH REGE	1	15	EX	C			C	EX	20	2	EX CIRCUIT	36	
37	EX CIRCUIT	2	40	EX	A			A					38	
39					B			B	EX	20	1	EX CIRCUIT	40	
41	ISOLATED GRD CASH REGE	1	15	EX	C			C	EX	30	1	CASH POLAR	42	

NEW PANEL RS SCHEDULE																
VOLTAGE:		120 / 208		BUS: 225A		MOUNTING: SURFACE						MANUF: SQUARE D				
PHASE:		3		MAIN: MLO		LOCATION: ROUND STAND										
WIRE:		4		FEED FROM: PANEL MDP IN MANSION HOUSE						TYPE: QO						
AIC:		22,000														
CKT	DESCRIPTION	BREAKER		LOAD		NOTES	LOAD		BREAKER		DESCRIPTION	CKT				
		POLE	TRIP	KVA	PHASE		PHASE	KVA	TRIP	POLE						
1	FOOD WARMER, PRETZEL	1	20	1.48	A			A	4.35	50	2	AUTO ESPRESSO MACH	2			
3	FLOOR BOX D RECEPT.	1	20	0	B			B	4.35				4			
5	SINK RECEPT GFI	1	20	0.18	C			C	0.84	20	1	REFRIDGERATORS U, D, DC	6			
7	ICE MAKER/BIN	1	20	1.38	A			A	2	25	2	RAPID OVEN	8			
9	RECEPT EAST WALL	1	20	0.18	B			B	2				10			
11	POS	1	20	0.8	C			C	0.48	15	1	WORK TOP REFRIGERATOR	12			
13	INTERIOR LTS	1	20	1	A			A	0.12	20	1	MINI FRIDGE FOR ESPRESSO M.	14			
15	COFFEE BREWER	1	20	1.675	B			B	0.336	15	1	DRAFT BEER COOLER	16			
17	FLOOR BOX H OPEN AREA	1	20	0	C			C	2.6	30	2	SOFT SERVE	18			
19	GENERAL RECEPT	1	20	0.18	A			A	2.6				20			
21	POPCORN POPPER	1	20	1.4	B			B	2.6	30	2	SOFT SERVE	22			
23	ICEE MACHINE	2	30	0.6	C			C	2.6				24			
25				0.6	A			A	0.384	20	1	ATOSA REFRIGERATOR	26			
27	HP-1	2	15	1.35	B			B	2.8	30	2	PWH-1 INSTANT WATER HEATER	28			
29				1.35	C			C	2.8				30			
31	CU-1	2	15	1.35	A			A	0.28	20	1	REACH IN FRIDGE OPEN AREA	32			
33				1.35	B			B	0.18	20	1	BACK ROOM WALL RECEPT.	34			
35	UNIT HEATER	1	20	1	C			C	0.18	20	1	MECHANICAL ROOM RECEPT.	36			
37	WATER HEATER	3	20	1.5	A			A	0.18	20	1	WALL RECEPT NEAR FLR BOX G	38			
39				1.5	B			B	0.18	20	1	WALL RECEPT NEAR FLR BOX A	40			
41				1.5	C			C	0	20	1	SPARE	42			
43	EXTERIOR LTS	1	20	0.5	A			A	0.18	20	1	TV MONITORS	44			
45	EMON D-MON METER	3	20		B			B		20	1	DATA RACK RECEPT.	46			
47					C			C		20	1	FIRE ALARM PANEL	48			
49					A			A		20	1	DATA BOARD RECEPT	50			
51	SPD	3	20		B			B		20	1	DATA BOARD RECEPT	52			
53					C			C		20	2	DATA EQUIPMENT	54			
55					C			C					56			
57	DATA HEADEND EQUIP	2	30		A			A	4.9	20	1	EXTERIOR MONITORS	58			
59					B			B	0.8	20	1	RECEPT WEST WALL	60			
61	LOW VOLTAGE LIGHTS XFMR	1	20	1	C			C	0.8	20	1	RECEPT EAST WALL	62			
63	SPARE	1	20	0	C			C	0	20	1	RECEPT NORTH WALL	64			
65	SPARE	1	20	0	A			A	0	20	1	SPARE	66			
67	SPARE	1	20	0	B			B	0	20	1	SPARE	68			
69	SPARE	1	20	0	C			C	0	20	1	SPARE	70			
71	SPARE	1	20	0	C			C	0	20	1	SPARE	72			
TOTAL CONNECTED:		A: 15.72		B: 18.84		C: 12.81		KVA: 47.37		AMPS: 131.64						

EX PANEL MDP SCHEDULE															
VOLTAGE:		120 / 208		BUS: 800A		MOUNTING: SURFACE				MANUF: SQUARE D					
PHASE:		3		MAIN: MLO		LOCATION: ELECTRICAL CLOSET 020 MANSION H									
WIRE:		4				FEED FROM: T2				TYPE: I-LINE					
AIC:		25,000													
CKT	DESCRIPTION	BREAKER		LOAD		NOTES	LOAD		BREAKER		DESCRIPTION	CKT			
		POLE	TRIP	KVA	PHASE		PHASE	KVA	TRIP	POLE					
1	EX PANEL L-G	3	80	EX	A		A	EX	80	3	EX PANEL P-1	2			
3					B		B					4			
5					C		C					6			
7	EX PANEL L-2	3	90	EX	A		A	EX	80	3	THE CRANE HOUSE/BARN	8			
9					B		B					10			
11					C		C					12			
13	SPARE	3	100	0	A		A	EX	100	3	ELEVATOR	14			
15					B		B					16			
17					C		C					18			
19	EX PANEL N	3	225	EX	A		A			1	EQUIPPED SPACE	20			
21					B		B	EX	200	3	RED PANDA BUILDING	22			
23					C		C					24			
25	CIR 11 TRANSFER SWITCH FEED	3	200	EX	A		A					26			
27					B		B	EX	150	3	PANEL M	28			
29					C		C					30			
31	PANEL RS (ROUND STAND)	3	200	EX	A		A					32			
33					B		B					34			
35					C		C	EX	175	3	EX PANEL L-1	36			
37	EQUIPPED SPACE	3			A		A					38			
39					B		B					40			
41					C		C					42			

PANEL SCHEDULE NOTES:

1. UPDATE PANEL SCHEDULE ACCORDINGLY.



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DATE: AUGUST 10, 2026

PROJECT NO: 2023-10.08

DRAWN BY	KWA
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CHECKED BY	KWA
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SUBMISSION	DATE
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BID SET	08/10/2026
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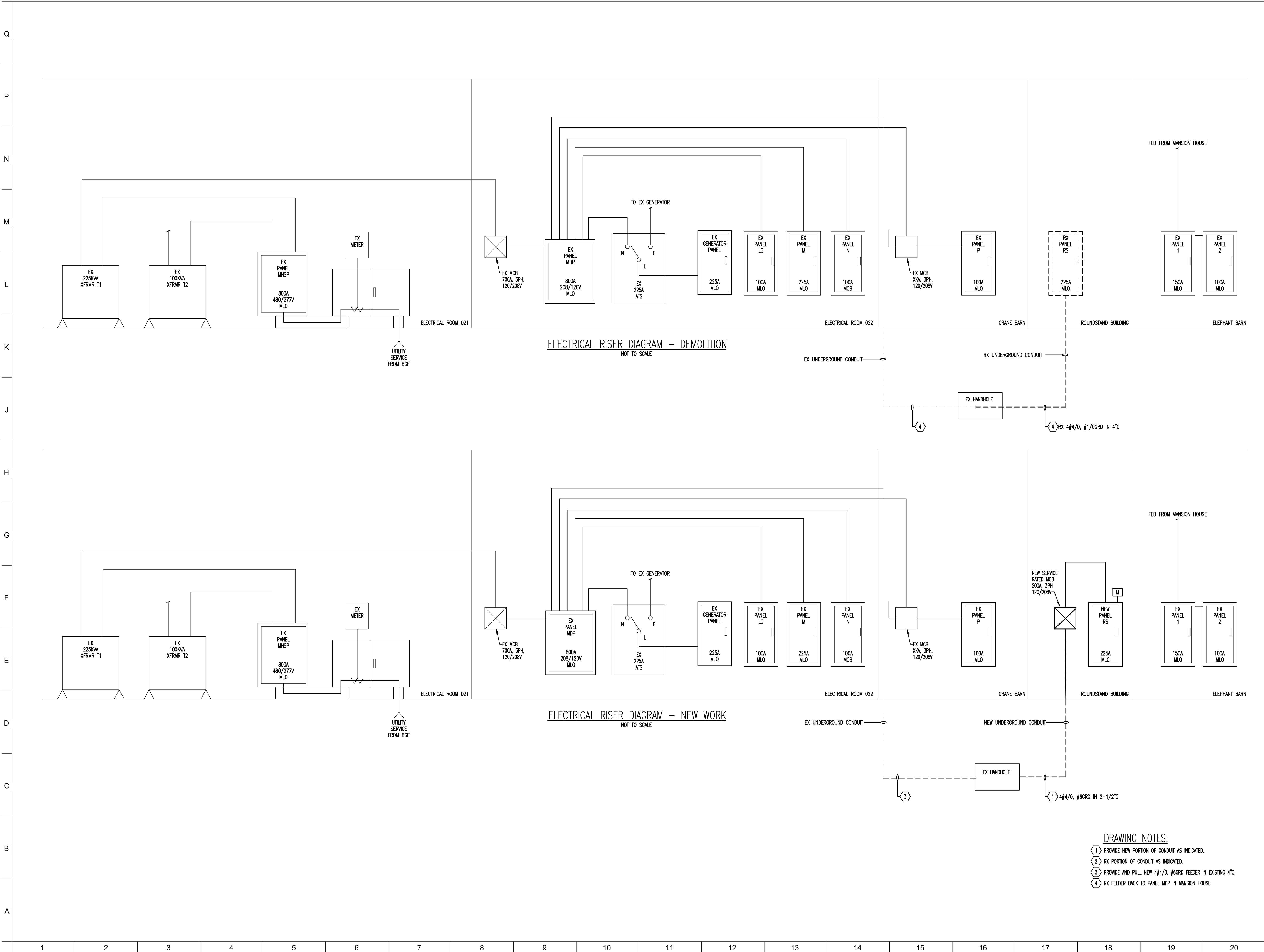
REVISION	DATE
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DRAWING TITLE:

PANEL SCHEDULES

DRAWING NO:

E-601



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SUBMISSION DATE	
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REVISION	DATE

DRAWING TITLE:

ELECTRICAL
RISER
DIAGRAM

DRAWING NO:

E-701