STORE #5035

410 NW CHIPMAN RD, TENANT A

LEE'S SUMMIT, MO 64086

CONTACT INFORMATION

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PLUMBING / MECHANICAL
kVA CONSULTING
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OWNER
EINSTEIN NOAH RESTAURANT GROUP, INC.
1720 S BELLAIRE STREET, STE. SKYBOX
DENVER, CO 80222
(845) 242-0462
CONTACT: STUART FRANCIS
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LANDLORD
STAR DEVELOPMENT
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LIBERTY, MO 64068
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DRAWING INDEX

SCOPE OF WORK

THIS PROJECT IS A TENANT IMPROVEMENT EFFORT FOR AN EXISTING SHELL SPACE FOR A NEW RESTAURANT USE LEASE SPACE

THE WORK WILL CONSIST OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING WORK FOR:
DINING AREA:
- NEW MILLWORK PIECES
- NEW FINISHES

SERVICE AREA:
- NEW FINISHES
- NEW MENU BOARDS
- NEW P.O.S. SYSTEM

KITCHEN:
- NEW EQUIPMENT
- NEW SERVICE LINE EQUIPMENT
- FINAL CONNECTIONS TO EXISTING CORE & SHELL SERVICE UTILITIES

RESPONSIBILITY MATRIX

NOTE: SEE EQUIPMENT SCHEDULE FOR DIVISION OF EQUIPMENT ORDER, SUPPLY AND INSTALLATION RESPONSIBILITY.
G.C. TO COORDINATE RESPONSIBILITY MATRIX WITH TENANT REPRESENTATIVE/ C.M.
LL=LANDLORD, T=TENANT, G.C.=TENANT'S GENERAL CONTRACTOR, EX=EXISTING UNLESS NOTED OTHERWISE, ALL WORK SHOWN IN THESE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR OF RECORD.

		FURNISH	INSTALL
FLOOR WORK & DEMO	SMOOTH, LEVEL CONCRETE FLOOR WITH ADA TRANSITION REQUIREMENTS	G.C.	G.C.
	SAW CUT SLAB FOR NEW IN-FLOOR PLUMBING FIXTURES	G.C.	G.C.
	REPAIR, LEVEL AND SLOPE FINISHES AND TRANSITIONS	G.C.	G.C.
FLOOR COVERING	QUARRY TILE, BASE AND GROUT & TRANSITIONS	G.C.	G.C.
	CERAMIC TILE, BASE AND GROUT & TRANSITIONS	G.C.	G.C.
	DIAMOND PLATE BASE	G.C.	G.C.
	WATERPROOF MEMBRANE	G.C.	G.C.
	CONCRETE STAIN / DYE	G.C.	G.C.
EXTERIOR WALLS/ STORE FRONT	FURRING AND INSULATION	EX	EX
	2 SEPARATE ENTRY/ EXIT DOORS AND HARDWARE	EX	EX
	SERVICE/ EXIT DOOR AND HARDWARE	EX	EX
	ALUMINUM STOREFRONT AND GLAZING (1" INSULATED GLASS)	EX	EX
DEMISING WALLS	GYPSUM BOARD	EX	EX
	6" METAL STUD FRAMING INSULATION, GYP. BD., TAPED, SANDED AND READY TO RECEIVE TENANT FINISHES (FIRE RATING IF APPLICABLE)	EX/G.C.	EX/G.C.
	U.L. PENETRATION CAULKING AT RATED WALLS	G.C.	G.C.
INTERIOR PARTITIONS	FRAMING, PLYWOOD BLOCKING AND GYP. BD.	G.C.	G.C.
	F.R.P. PANELS, WAINSCOTS, AND TILE WALL	G.C.	G.C.
	WATERPROOF MEMBRANE	G.C.	G.C.
	SERVICE LINE PONY WALL	VENDOR	G.C.
	SNEEZE GUARD	G.C.	G.C.
	DIAMOND PLATE	G.C.	G.C.
	STAINLESS STEEL CAP	G.C.	G.C.
	STAINLESS STEEL WALL FINISH	G.C.	G.C.
	PAINTING OR STAINING	G.C.	G.C.
	RECLAIMED WOOD	G.C.	G.C.
	GYPSUM BOARD CEILING AND SOFFIT	G.C.	G.C.
	LAY-IN CEILING WITH SUSPENSION SYSTEM	G.C.	G.C.
	DOORS, FRAMES AND HARDWARE	G.C.	G.C.
	WALL GRAPHICS (GRAFFITI WALL PREP & PAINT)	VENDOR	VENDOR
	MENU BOARD SOFFIT	G.C.	G.C.
FURNISHINGS	MILLWORK	VENDOR	G.C.
	COUNTERS	VENDOR	G.C.
	FURNITURE	VENDOR	G.C.
	KITCHEN EQUIPMENT	VENDOR	G.C.
	OUTDOOR TABLES/ CHAIRS/ UMBRELLAS (IF SHOWN)	VENDOR	G.C.
SIGNAGE	EXTERIOR SIGN (SEPARATE PERMIT)	VENDOR	VENDOR
	MENU BOARDS	VENDOR	G.C.
	WINDOW STENCIL LETTERING	VENDOR	G.C.
	EMPLOYEE WASH HANDS (LAVATORY)	VENDOR	G.C.
	RESTROOM SIGNAGE	VENDOR	G.C.
	ENTRY EMBLEM & HOURS	VENDOR	G.C.
HVAC	HVAC ROOF TOP UNIT(S), CURBS AND DROPS	E.X.	E.X.
	ROOF SPACE AND SUPPORT FOR HVAC EQUIPMENT	EX	EX
	ROOF REPAIRS AND FLASHING (USE LANDLORDS WARRANTY ROOFING CONTRACTOR)	E.X.	E.X.
	WIRING AND CONNECTIONS	E.X.	E.X.
	TYPE-1 GREASE HOOD, GREASE DUCT AND TYPE-1 EXHAUST FAN (SEPERATE PERMIT)	N/A	N/A
	DUCTWORK, DAMPERS AND GRILLES	G.C.	G.C.
	THERMOSTATS AND CONTROLS	G.C.	G.C.
	TOILET EXHAUST FAN	GC	GC
	CODE COMPLIANT AREA FOR EXHAUST FANS, MAU, ETC.	GC	GC
PLUMBING	SANITARY WASTE LINE TO SPACE	EX	EX
	GREASE TRAP OR GREASE LINE STUBBED INTO SPACE	EX	EX
	WATER METER AND SERVICE STUBBED TO PREMISES	EX	EX
	GAS METER AND SERVICE TO SPACE	EX	EX
	FINAL CONNECTIONS	G.C.	G.C.
	HVAC CONNECTIONS	G.C.	G.C.
	GAS PIPING A/C	EX	EX
	WATER HEATERS	G.C.	G.C.
	PLUMBING FIXTURES	G.C.	G.C.
ELECTRICAL	SEPARATELY METERED 400 AMP, 120/208V, 3 PHASE, 4W SERVICE	EX	EX
	FLUSH MOUNTED PANEL WITH BREAKERS AND WITH 200 AMP BREAKER PANEL FOR TENANTS SUB PANEL	EX	EX
	PHONE DEMARC BOX AND 2" CONDUIT WITH PULL STRINGS FROM DEMARC TO TENANT SPACE	EX	EX
	PHONE PANEL, EQUIPMENT AND CABLE PULLS	EX	EX
	LIGHT FIXTURES, MOUNTING ACCESSORIES, AND LAMPS (G.C. PURCHASED)	VENDOR	G.C.
	MUSIC SYSTEM AND SPEAKERS	VENDOR	VENDOR
	EXIT/EMERGENCY LIGHT SYSTEM	G.C.	G.C.
	SECURITY CAMERA & ALARM SYSTEM	G.C.	G.C.
	P.O.S. CONDUIT, CABLES & JACKS	G.C.	G.C.
	P.O.S. EQUIPMENT INSTALLATION	T	T
FIRE PROTECTION	SPRINKLER SYSTEM PER NFPA INCLUDING 1 DROP PER 150 S.F. W/ CENTRAL BUILDING ALARM SYSTEM & ALL DEVISES. LL TO COORDINATE W/ TENANT REGARDING REQUIRED PROVISIONS (UNDER SEPARATE PERMIT, IF APPLICABLE)	N/A	N/A
	MODIFYING EXISTING SPRINKLER SYSTEM (IF APPLICABLE)	N/A	N/A
	ALARM SYSTEM - TIE INTO BASE BUILDING ALARM SYSTEM (IF APPLICABLE)	N/A	N/A

ABBREVIATIONS

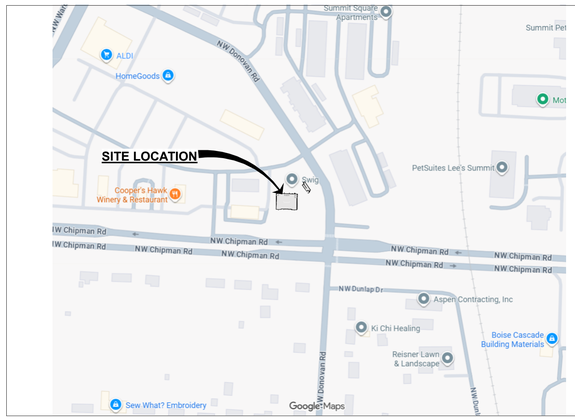
℄	CENTERLINE	LAM.	LAMINATE
⊥	PERPENDICULAR	LAV.	LAVATORY
□	SQUARE	LBS.	POUNDS
Ø	DIAMETER	M.B.	MACHINE BOLT
#	NUMBER	M.H.	MANHOLE
(E)	EXISTING	M.O.	MASONRY OPENING
(F)	FUTURE	MAX.	MAXIMUM
(N)	NEW	MECH.	MECHANICAL
(R)	RENOVATE OR RELOCATED	MET.	METAL
@	AT	MFR.	MANUFACTURER
A.B.	AIR CONDITIONING	MIN.	MINIMUM
A.D.A.A.G.	AMERICAN'S WITH DISABILITIES ACT	MISC.	MISCELLANEOUS
A.F.F.	ABOVE FINISH FLOOR	MT'D	MOUNTED
A.O.A.	AIRLINES OPERATION AREA	N	NORTH
A/C	AIR CONDITIONING	N.I.C.	NOT IN CONTRACT
ABV.	ABOVE	N.S.	NEAR SIDE
ACOUST.	ACOUSTICAL	N.T.S.	NOT TO SCALE
ADJ.	ADJUSTABLE	NO.	NUMBER
AGG.	AGGREGATE	NOM.	NOMINAL
ALT.	ALTERNATIVE	O.A.	OVER ALL
ALUM.	ALUMINUM	O.C.	ON CENTER
APPROX.	APPROXIMATE	O.D.	OUTSIDE DIAMETER
ARCH.	ARCHITECTURAL	O.H.	OPPOSITE HAND
AUTO.	AUTOMATIC	O.T.S.	OPEN TO STRUCTURE
AVE.	AVENUE	O/	OVER
B.O.	BOTTOM OF	O/H	OVERHEAD
B.O.C.	BASE OF CURB	OFF	OFFICE
BI.	BUILT-UP	OPNG.	OPENING
BD.	BOARD	OPP.	OPPOSITE
BLDG.	BUILDING	OZ.	OUNCE
BLK.	BLOCK	P.LAM.	PLASTIC LAMINATE
BM.	BEAM	P.T.D.	PAPER TOWEL DISPENSER
BOT.	BOTTOM	P/L	PROPERTY LINE
C.B.	CATCH BASIN	PART.	PARTICLE
C.C.	CENTER TO CENTER	PL.	PLATE
C.I.	CAST IRON	PLUMB.	PLUMBING
C.I.P.	CAST IN PLACE	PLYWD.	PLYWOOD
C.M.U.	CONCRETE MASONRY UNIT	PRE-ENG.	PRE-ENGINEERED
C.O.	CONCRETE OPENING OR CLEAN-OUT	PT.	POINT
C.T.	CERAMIC TILE	PVMT.	PAVEMENT
C.W.	COLD WATER	QT.	QUARRY TILE
CAB.	CABINET	R.	RADIUS OR RISER
CEM.	CEMENT	R.D.	ROOF DRAIN
CFM	CUBIC FEET/MINUTE	R.O.	ROUGH OPENING
CLG	CEILING	R.W.L.	RAIN WATER LEADER
CLR.	CLEAR	RE:	REFERENCE (C/W)
CNTRSK.	COUNTERSUNK	REINF.	REINFORCE(D)
COL.	COLUMN	REQ'D.	REQUIRED
CONC.	CONCRETE	RM.	ROOM
CONT.	CONTINUOUS	S.C.	SOLID CORE
CORR.	CORRIDOR	S.C.D.	SEAT COVER DISPENSER
C/W	COORDINATE WITH	S.D.	SOAP DISPENSER
D	DEEP	S.F.	SQUARE FEET OR FOOT
D.B.A.	DEFORMED BAR ANCHOR	S.I.D.A.	SECURITY IDENTIFICATION DISPLAY AREA
D.F.	DRINKING FOUNTAIN	S.N.D.	SANITARY NAPKIN DISPENSER
D.S.	DOWNSPOUT	S.N.R.	SANITARY NAPKIN RECEPTACLE
D.S.P.	DRY STANDPIPE	S.S.	STAINLESS STEEL
DET.	DETAIL	SCHED.	SCHEDULE
DIA.	DIAMETER	SECT.	SECTION
DIAG.	DIAGONAL	SHR.	SHOWER
DIM.	DIMENSION	SHT.	SHEET
DN.	DOWN	SIM.	SIMILAR OR SIMILAR TO
DWG.	DRAWING	SPECS.	SPECIFICATIONS
E.B.	EXPANSION BOLT	SQ.	SQUARE
E.I.F.S.	EXTERIOR INSULATION & FINISHING SYSTEM	ST.	STREET OR STEEL
E.J.	EXPANSION JOINT	STD.	STANDARD
E.P.	ELECTRICAL PANELBOARD	STRUC.	STRUCTURAL
E.W.C.	ELECTRIC WATER COOLER	SUSP.	SUSPENDED
EA.	EACH	SYM.	SYMMETRICAL
EL.	ELEVATION	T & G	TONGUE & GROOVE
ELEC.	ELECTRICAL	T.	TREAD
ELEV.	ELEVATOR	T.B.	TOWEL BAR
EQ.	EQUAL	T.D.	TOP OF DRAIN
EQUIP.	EQUIPMENT	T.O.	TOP OF
EXH.	EXHAUST	T.O.C.	TOP OF CURB/CONCRETE
EXP.	EXPANSION	T.O.M.	TOP OF MASONRY
EXT.	EXTERIOR	T.O.P.	TOP OF PARAPET
F.A.	FIRE ALARM	T.O.S.	TOP OF SLAB
F.B.	FLAT BAR	T.O.W.	TOP OF WALL
F.D.	FLOOR DRAIN	T.P.D.	TOILET PAPER DISPENSER
F.E.	FIRE EXTINGUISHER	TEL.	TELEPHONE
F.E.C.	FIRE EXTINGUISHER CABINET	THK.	THICKNESS
F.H.C.	FIRE HOSE CABINET	THRES.	THRESHOLD
F.O.	FACE OF	TYP.	TYPICAL
F.O.C.	FACE OF CURB/CONCRETE	U.B.C.	UNIFORM BUILDING CODE
F.O.F.	FACE OF FINISH	U.O.N.	UNLESS OTHERWISE NOTED
F.O.M.	FACE OF MASONRY	V.C.T.	VINYL COMPOSITION TILE
F.O.S.	FACE OF STUDS	V.I.F.	VERIFY IN FIELD
F.O.T.	FACE OF TREAD	VENT.	VENTILATION
F.S.	FAR SIDE	VERT.	VERTICAL
FDN.	FOUNDATION	VEST.	VESTIBULE
FIN.	FINISH	W.	WIDE
FL.	FLOOR(ING)	W.B	WALL BEYOND
FLASH.	FLASHING	W.C.	WATER CLOSET OR WALL COVERING
FT.	FOOT OR FEET	W.G.	WIRE GLASS
FTG.	FOOTING	W.GL.	WIRE GLASS
FTW.	FIRE TREATED WOOD	W.P.	WORK POINT
FURR.	FURRING	W.R.	WASTE RECEPTACLE
G.	GAS	W.W.F.	WELDED WIRE FABRIC
G.B.	GRAB BAR	W/	WITH
GA.	GAUGE OR GAGE	W/O	WITHOUT
GALV.	GALVANIZED	WD.	WOOD
GYP.	GYPSUM		
H.	HIGH		
H.A.S.	HEADED ANCHOR STUD		
H.A.S.	HEADED CONCRETE ANCHOR		
H.B.	HOSE BIBB		
H.C.	HANDICAPPED - A.D.A.A.G.		
H.M.	HOLLOW METAL		
H.P.	HIGH POINT		
H.W.	HOT WATER		
HORIZ.	HORIZONTAL		
HR.	HOUR		
HT.	HEIGHT		
HVAC	HEATING VENTILATING AND AIR CONDITIONING		
I.D.	INSIDE DIAMETER		
IN.	INCH		
INSUL.	INSULATION		
INT.	INTERIOR		
JAN.	JANITOR		
JT.	JOINT		
K.O.	KNOCKOUT		
KIT.	KITCHEN		
L.F.	LINEAL FEET OR FOOT		
L.P.	LOW POINT		

CONSTRUCTION PHASE NOTE

ARCHITECT'S DESIGN WITHOUT CONSTRUCTION PHASE SERVICES
SCHEDULED/DIRECT CONSTRUCTION OBSERVATIONS AND REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT ANTICIPATED AS PART OF THE ARCHITECT'S BASIC SERVICES. THE ARCHITECT AVAILS ITSELF TO THE OWNER, THE CONTRACTOR, AND OTHER PARTIES AS NECESSARY (VIA TELEPHONE AND EMAIL) TO ASSIST IN PROVIDING CLARIFICATIONS, RESOLVING ISSUES AND/OR CONFLICTS THAT MAY ARISE DURING CONSTRUCTION. IT IS UNDERSTOOD THAT THE FRANCHISEE AND/OR THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR INTERPRETATION OF THE DRAWINGS, AND ANY OTHER SUPPLEMENTAL INFORMATION, UNLESS THE ARCHITECT IS OFFERED THE OPPORTUNITY TO PROVIDE CLARIFICATIONS OR PARTICIPATE IN CHANGES TO THE DESIGN OR THE RESOLUTION OF SAID ISSUES OR CONFLICTS. ALL PARTIES WAIVE ANY CLAIMS AGAINST THE ARCHITECT THAT MAY BE IN ANY WAY CONNECTED THERETO. THE ARCHITECT IS TO BE HELD HARMLESS FROM LOSS, CLAIM, OR COSTS ARISING OR RESULTING FROM MODIFICATIONS OR CHANGES MADE TO THE DESIGN (WITHOUT THE KNOWLEDGE OF THE ARCHITECT) DUE TO CONDITIONS OR CIRCUMSTANCES (ANTICIPATED OR NOT) BEYOND THE ARCHITECT'S CONTROL.

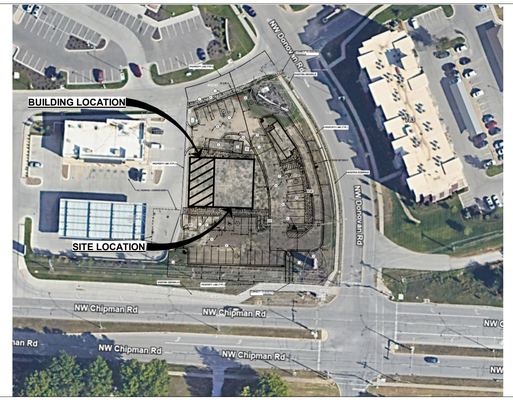
VICINITY MAP

NOT TO SCALE



SITE MAP

NOT TO SCALE



DEFERRED SUBMITTALS

- EXTERIOR SIGNAGE

SIGNAGE

OWNER'S SIGNAGE CONTRACTOR SHALL PREPARE SIGNAGE SHOP DRAWINGS AND SUBMIT TO BUILDING DEPT. & LANDLORD FOR APPROVAL. ALL SIGNAGE IS UNDER SEPARATE REVIEW AND PERMIT.

CRITICAL PLUMBING NOTE

THE RELATIONSHIP BETWEEN FLOOR SINKS AND NEW WALLS IS CRITICAL TO THE FINAL FIXTURE / EQUIPMENT LAYOUT. FLOOR SINKS AS SHOWN ON THE KITCHEN PLUMBING PLANS ARE DIMENSIONALLY LOCATED OFF OF NEW PARTITIONS, AND THEREFORE THE CONTRACTOR MUST COMPLETE PLAN LAYOUT ON SLAB PRIOR TO FINAL LOCATION OF FLOOR SINKS FOR ACCURATE FINAL PLACEMENT.

SYMBOL LEGEND

A — WINDOW TYPE, RE: A82 WINDOW TYPES

101 — DOOR NUMBER, RE: A82 DOOR SCHEDULE

A-1 — MATERIAL FINISH, RE: A81 & I81 FINISH SCHEDULE

RELATED SPECIFICATION DIVISION
RELATED SPECIFICATION SECTION
SHEET NOTE, RE: SHEET NOTES LIST ON CURRENT PAGE
SHEET NOTE

W01 T.O.W. XXX'-XX" — WALL TYPE, RE: A21 FOR WALL TYPES WITH VARIABLE HEIGHT, SEE TOP OF WALL ELEVATION

1| — ACCESSORY/FIXTURE TYPE, RE: A42

1 — REVISION KEY RE: REVISED BOX IN TITLE BLOCK OF CURRENT PAGE

1 / A61 — BUILDING SECTION MARK REF. (SEE DWG. #1 @ SHT. A61)

1 / A63 — WALL SECTION MARK REF. (SEE DWG. #1 @ SHT. A63)

1 / A21 — INTERIOR ELEVATIONS SEE DWG. #1 @ SHT. I51, I52, I53

Room name 101 — ROOM NAME, ROOM NUMBER

NUMBER OF OCCUPANTS — X — ACCESSORY USE
OCCUPANCY FACTOR — 150 SF / 100 SF — AREA OF ROOM

STEVEN BRUCE WAKEMAN, ARCHITECT
100 HOWE AVENUE, SUITE 270N
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STATE OF MISSOURI
STEVEN B. WAKEMAN
NUMBER A-2020020380
12-12-25
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www.cshqa.com

PERMIT SET

PROJECT	DATE
25154.000	12-11-2025
DRAWN	CHECKED
MDG	PS/JG

REVISED

SHEET TITLE
TITLE SHEET

SHEET
G00
ORIGINAL SHEET SIZE 24" x 36"

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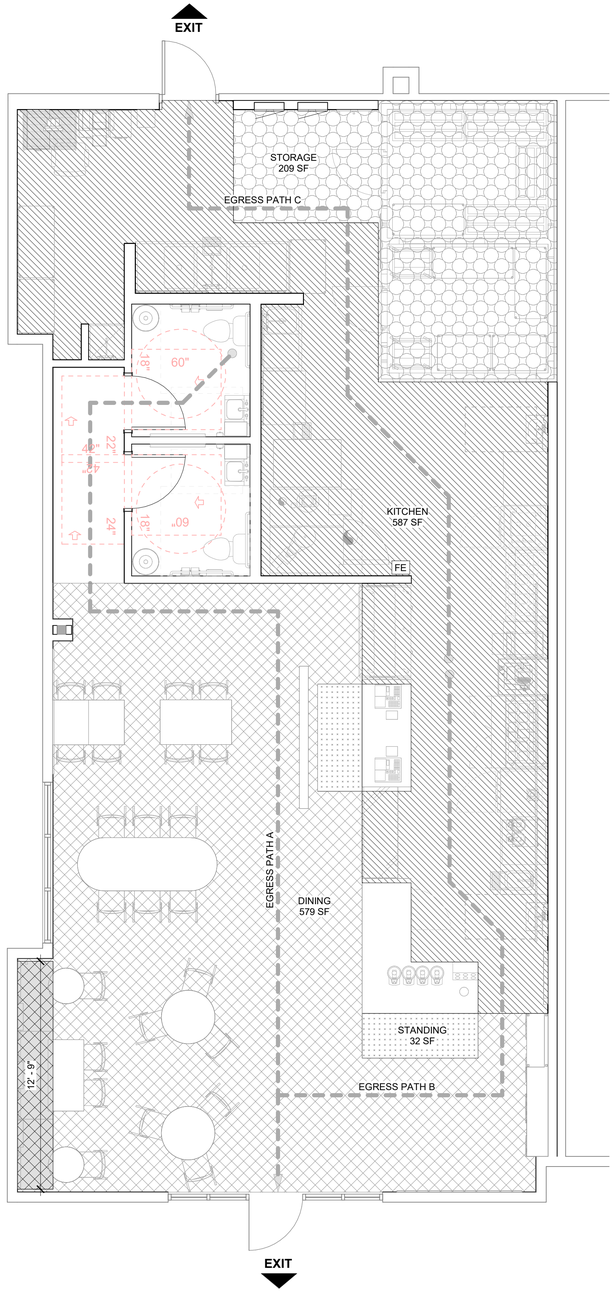

NORTH 1 EGRESS PLAN
1/4" = 1'-0"

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PROJECT INFORMATION

PROJECT ADDRESS:	400 NW CHIPMAN RD, LEE'S SUMMIT, MO 64063
PROJECT DESCRIPTION:	RESTAURANT TENANT IMPROVEMENT. SPACE IS LOCATED WITHIN A ONE-STORY COMMERCIAL COMPLEX WITH FRONT EGRESS EXITING INTO THE OPEN.
BUILDING CODES:	2018 INTERNATONAL BUILDING CODE (IBC) 2018 INTERNATIONAL PLUMBING CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL GAS CODE (IFGC) 2018 INTERNATIONAL FIRE CODE 2017 NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) 2009 ICC A117.1 ACCESSIBILITY CODE
BUILDING CONSTRUCTION:	TYPE V-B (NON SPRINKLERED)
TENANT SPACE INFORMATION:	
LEASE AREA:	2,084 SF
FIRE PROTECTION:	PORTABLE FIRE EXTINGUISHERS
NUMBER OF EMPLOYEES:	4
OCCUPANCY GROUP:	A-2 ASSEMBLY
G.C. COMPLIANCE:	ELECTRICAL, PLUMBING, AND MECHANICAL SHALL BE INSTALLED BY LICENSED CONTRACTORS TO MEET MECHANICAL, ELECTRICAL AND PLUMBING CODES AS REFERENCED ABOVE. INSPECTIONS SHALL BE CALLED FOR PRIOR TO COVERING WORK.
SUBCONTRACTOR COMPLIANCE:	ELECTRICAL, PLUMBING, AND MECHANICAL SHALL BE INSTALLED BY LICENSED CONTRACTORS TO MEET MECHANICAL, ELECTRICAL AND PLUMBING CODES AS REFERENCED ABOVE. INSPECTIONS SHALL BE CALLED FOR PRIOR TO COVERING WORK.

CALCULATED OCCUPANCY LOAD:

ASSEMBLY AREAS		TOTAL	CALCULATED OCCUPANT LOAD
ASSEMBLY (FIXED): OCCUPANT	1 PER 24 INCHES	12'-9"	7
DINING: (INDOOR) OCCUPANT	15 SQ. FT PER	579 SQ. FT.	39
KITCHEN: OCCUPANT	200 SQ. FT PER	587 SQ. FT.	3
ACCESSORY/STORAGE OCCUPANT	300 SQ. FT PER	209 SQ. FT.	1
STANDING: OCCUPANT	5 SQ. FT PER	32 SQ. FT.	7
TOTAL INTERIOR OCCUPANTS: (USED FOR EXITING/EGRESS/RESTROOM FIXTURE CALCULATIONS)			57

REQUIRED EGRESS WIDTH

BUILDING EGRESS					
TOTAL EGRESS WIDTH REQUIRED:					
57	MAX INT. OCCUP. X .2" =	11.4"			
TOTAL EGRESS WIDTH PROVIDED:					
TWO 34" CLEAR DOOR EXITS LEAF(S) = 68"					
MAIN ENTRANCE					
WIDTH REQUIRED: 11.4"					
CLEAR WIDTH PROVIDED: 68"					
NUMBER OF EXITS:	1 REQUIRED - 2 PROVIDED				

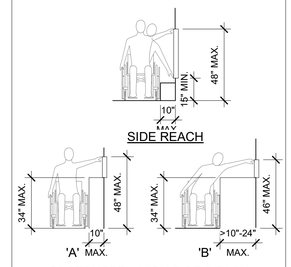
RESTROOM PLUMBING FIXTURES

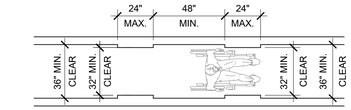
BUILDING OCCUPANCY CALCULATIONS (FROM TABLE ABOVE (TOTAL OCCUPANTS))					
BUILDING CODE REFERENCED: IBC 2018					
COUNT NUMBERS =	57				
50% MALE AND 50% FEMALE =	57	/2=	29		
REQUIRED WOMEN'S FIXTURES 1: 1-75 REQUIRED MEN'S FIXTURES 1: 1-75 REQUIRED LAVATORIES 1: 1-200	WC MALE	UR MALE	WC FEMALE	LAV MALE/FEMALE	
	1	0	1	1 EACH	
TYPE OF FIXTURE	GENDER NEUTRAL				
	REQUIRED			PROVIDED	
WATER CLOSET	1			2	
URINAL	-			-	
LAVATORIES	1			2	
SERVICE SINK	1 REQUIRED, 1 PROVIDED				
PER IBC PLUMBING SECTION 403.2 EXCEPTION 4 SEPERATE FACITILIES ARE NOT REQUIRED FOR TENANT SPACES WITH AN OCCUPANT LOAD OF 25 OR FEWER					
PER IBC PLUMBING SECTION 410.4 WHERE RESTAURANTS PROVIDE DRINKING WATER IN A CONTAINER FREE OF CHARGE, DRINKING FOUNTAINS SHALL NOT BE REQUIRED IN THOSE RESTAURANTS.					

GENERAL NOTES

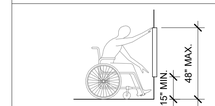
A.	EXIT AISLES SHALL MEET ALL APPLICABLE CODES.
B.	POST OCCUPANCY LOAD SIGN AS DIRECTED IN IBC 1004.3 CAULK AROUND ALL SIDES. "MAXIMUM SEATING CAPACITY - XX". FOR SEAT COUNT, SEE "TOTAL INTERIOR OCCUPANTS" LOAD LISTED IN "CALCULATED OCCUPANT LOAD" COLUMN BELOW.
C.	OWNER SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS PER LOCAL FIRE MARSHAL. GENERAL CONTRACTOR TO INSTALL.
D.	ANY TIME THE BUILDING IS OCCUPIED, THE MEANS OF EGRESS SHALL BE ILLUMINATED AT AN INTENSITY OF NOT LESS THAN 1 FOOT-CANDLE AT THE FLOOR LEVEL.
E.	PROVIDE APPROVED EGRESS ILLUMINATION AND ILLUMINATED EXIT SIGNS.
F.	PROVIDE APPROVED PANIC HARDWARE ON EXIT DOORS.

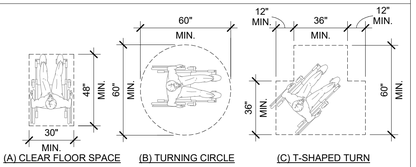
TYPICAL ACCESSIBILITY DETAILS

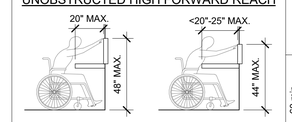


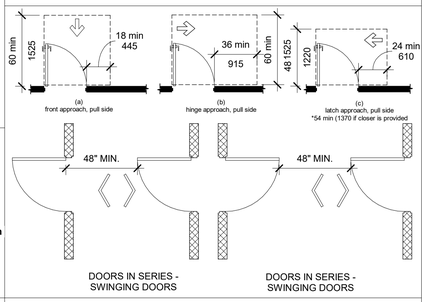


CLEAR WIDTH OF AN ACCESSIBLE ROUTE









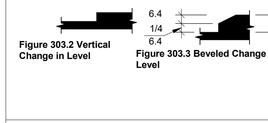
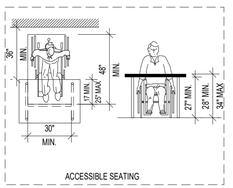
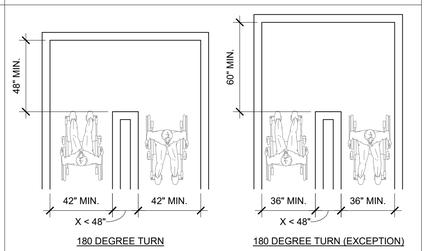


Figure 303.2 Vertical Change in Level

Figure 303.3 Beveled Change in Level





CLEAR WIDTH AT TURN

LEGEND

	INDICATES 36" MIN. EGRESS PATH UNLESS NOTED OTHERWISE
FE	FIRE EXTINGUISHER, RE: Q11-2 FOR MOUNTING REQUIREMENTS
EXIT	REQUIRED EXIT / EXIT ACCESS DOOR(S)

EGRESS DATA

Type	EXIT ROUTE	DISTANCE
01 Start	EGRESS PATH A	3' - 11"
02 Middle	EGRESS PATH A	5' - 2"
02 Middle	EGRESS PATH A	11' - 8"
02 Middle	EGRESS PATH A	10' - 6"
02 Middle	EGRESS PATH A	27' - 1"
EGRESS PATH A: 5		58' - 4"
01 Start	EGRESS PATH B	11' - 7"
02 Middle	EGRESS PATH B	4' - 2"
02 Middle	EGRESS PATH B	9' - 0"
02 Middle	EGRESS PATH B	12' - 6"
03 End	EGRESS PATH B	5' - 5"
EGRESS PATH B: 5		42' - 9"
01 Start	EGRESS PATH C	9' - 1"
02 Middle	EGRESS PATH C	8' - 0"
02 Middle	EGRESS PATH C	10' - 5"
02 Middle	EGRESS PATH C	8' - 10"
03 End	EGRESS PATH C	6' - 1"
EGRESS PATH C: 5		42' - 5"

STEVEN B. WAKEMAN
NUMBER A-2020020380
12-12-25
ARCHITECT

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LEE'S SUMMIT, MO 64086

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SACRAMENTO, CA 95825
(916) 231-0881
www.cshqa.com

CSHQA

PERMIT SET

PROJECT	DATE
25154.000	12-11-2025
DRAWN	CHECKED
MDG	PS/JG

REVISED

SHEET TITLE
EGRESS PLAN

SHEET
G21
ORIGINAL SHEET SIZE
24" x 36"

DIVISION 01 - GENERAL REQUIREMENTS

SECTION 012000 - PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Procedures for preparation and submittal of applications for progress payments.

1.02 SCHEDULE OF VALUES

A. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit draft to Architect for approval.

B. Forms filled out by hand will not be accepted.

1.03 APPLICATIONS FOR PROGRESS PAYMENTS

A. Payment Period: Submit at intervals stipulated in the Agreement.

B. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit sample to Architect for approval.

C. Forms filled out by hand will not be accepted.

D. Execute certification by signature of authorized officer.

E. Submit one electronic and three hard-copies of each Application for Payment.

F. Include the following with the application:
1. Partial release of liens from major subcontractors and vendors.

1.04 APPLICATION FOR FINAL PAYMENT

A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Sum, previous payments, and sum remaining due.

B. Application for Final Payment will not be considered until the following have been accomplished:
1. All closeout procedures specified in Section 017000.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 012000

SECTION 013000 - ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. General administrative requirements.

B. Submittals for review, information, and project closeout.

C. Number of copies of submittals.

D. Submittal procedures.

1.02 GENERAL ADMINISTRATIVE REQUIREMENTS

A. Comply with requirements of Section 017000 - Execution and Closeout Requirements for coordination of execution of administrative tasks with timing of construction activities.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 SUBMITTAL SCHEDULE

A. Submit to Architect for review a schedule for submittals in tabular format.

3.02 SUBMITTALS FOR REVIEW

A. When the following are specified in individual sections, submit them for review:
1. Product data.
2. Shop drawings.
3. Samples.

B. Submit to Architect for review for the limited purpose of checking for compliance with information given and the design concept expressed in Contract Documents.

C. Samples will be reviewed for aesthetic, color, or finish selection.

D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 017800 - Closeout Submittals.

3.03 SUBMITTALS FOR INFORMATION

A. When the following are specified in individual sections, submit them for information:
1. Design data.
2. Certificates.
3. Test reports.
4. Inspection reports.
5. Manufacturer's instructions.
6. Manufacturer's field reports.
7. Other types indicated.

B. Submit for Architect's knowledge as contract administrator or for Owner.

3.04 SUBMITTALS FOR PROJECT CLOSEOUT

A. Submit Correction Punch List for Substantial Completion.

B. Submit Final Correction Punch List for Substantial Completion.

C. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 017800 - Closeout Submittals:
1. Project record documents.
2. Operation and maintenance data.
3. Warranties.
4. Bonds.
5. Other types as indicated.

D. Submit for Owner's benefit during and after project completion.

3.05 NUMBER OF COPIES OF SUBMITTALS

A. Electronic Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.

B. Samples: Submit the number specified in individual specification sections; one of which will be retained by Architect.

3.06 SUBMITTAL PROCEDURES

A. General Requirements:
1. Use a single transmittal for related items.
2. Transmit using approved form.
3. Sequentially identify each item. For revised submittals use original number and a sequential numerical suffix.
4. Identify: Project; Contractor; subcontractor or supplier; pertinent drawing and detail number; and specification section number and article/paragraph, as appropriate on each copy.

END OF SECTION 013000

SECTION 014000 - QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Testing and inspection agencies and services.

B. Control of installation.

C. Defect Assessment.

1.02 TESTING AND INSPECTION AGENCIES AND SERVICES

A. Contractor shall employ and pay for services of an independent testing agency to perform specified testing and inspection.

B. Employment of agency in no way relieves Contractor of obligation to perform Work in accordance with requirements of Contract Documents.

C. Contractor Employed Agency:

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.

B. Comply with manufacturers' instructions, including each step in sequence.

C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.

D. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

E. Have work performed by persons qualified to produce required and specified quality.

F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.

G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

3.02 TESTING AND INSPECTION

A. Testing Agency Duties:
1. Provide qualified personnel at site. Cooperate with Architect and Contractor in performance of services.
2. Perform specified sampling and testing of products in accordance with specified standards.
3. Ascertain compliance of materials and mixes with requirements of Contract Documents.
4. Promptly notify Architect and Contractor of observed irregularities or non-compliance of Work or products.
5. Perform additional tests and inspections required by Architect.
6. Submit reports of all tests/inspections specified.

B. Limits on Testing/Inspection Agency Authority:
1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
2. Agency may not approve or accept any portion of the Work.
3. Agency may not assume any duties of Contractor.
4. Agency has no authority to stop the Work.

C. Contractor Responsibilities:
1. Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.
2. Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.
3. Provide incidental labor and facilities:
   a. To provide access to Work to be tested/inspected.
   b. To obtain and handle samples at the site or at source of Products to be tested/inspected.
   c. To facilitate tests/inspections.
   d. To provide storage and curing of test samples.
4. Notify Architect and laboratory 24 hours prior to expected time for operations requiring testing/inspection services.
5. Employ services of an independent qualified testing laboratory and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
6. Arrange with Owner's agency and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.

D. Re-testing required because of non-compliance with specified requirements shall be performed by the same agency on instructions by Architect.

E. Re-testing required because of non-compliance with specified requirements shall be paid for by Contractor.

3.03 DEFECT ASSESSMENT

A. Replace Work or portions of the Work not complying with specified requirements.

END OF SECTION 014000

SECTION 016000 - PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Transportation, handling, storage and protection.

B. Product option requirements.

C. Maintenance materials, including extra materials, spare parts, tools, and software.

1.02 SUBMITTALS

A. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.

B. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

C. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.

PART 2 PRODUCTS

2.01 NEW PRODUCTS

A. Provide new products unless specifically required or permitted by Contract Documents.

B. See Section 014000 - Quality Requirements, for additional source quality control requirements.

C. Use of products having any of the following characteristics is not permitted:

2.02 PRODUCT OPTIONS

A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.

B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.

C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

2.03 MAINTENANCE MATERIALS

A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.

B. Deliver to Project site; obtain receipt prior to final payment.

PART 3 EXECUTION

3.01 TRANSPORTATION AND HANDLING

A. Package products for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.

B. If special precautions are required, attach instructions prominently and legibly on outside of packaging.

C. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.

D. Transport and handle products in accordance with manufacturer's instructions.

E. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.

F. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.

G. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.

H. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

3.02 STORAGE AND PROTECTION

A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication.

B. Store and protect products in accordance with manufacturers' instructions.

C. Store with seals and labels intact and legible.

D. Store sensitive products in weathertight, climate-controlled enclosures in an environment favorable to product.

E. For exterior storage of fabricated products, place on sloped supports above ground.

F. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.

G. Comply with manufacturer's warranty conditions, if any.

H. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.

I. Prevent contact with material that may cause corrosion, discoloration, or staining.

J. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.

K. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

END OF SECTION 016000

SECTION 017000 - EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Examination, preparation, and general installation procedures.

B. Cutting and patching.

C. Cleaning and protection.

D. Closeout procedures, including Contractor's Correction Punch List, except payment procedures.

1.02 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
1. Structural integrity of any element of Project.
2. Integrity of weather exposed or moisture resistant element.
3. Efficiency, maintenance, or safety of any operational element.
4. Visual qualities of sight exposed elements.
5. Work of Owner or separate Contractor.

C. Project Record Documents: Accurately record actual locations of capped and active utilities.

1.03 COORDINATION

A. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.

B. Notify affected utility companies and comply with their requirements.

C. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.

D. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on drawings. Follow routing indicated for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.

E. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.

F. Coordinate completion and clean-up of work of separate sections.

G. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

PART 2 PRODUCTS

2.01 PATCHING MATERIALS

A. New Materials: As specified in product sections; match existing products and work for patching and extending work.

B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.

C. Product Substitution: For any proposed change in materials, submit request for substitution described in Section 016000 - Product Requirements.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.

B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.

C. Examine and verify specific conditions described in individual specification sections.

D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.

E. Verify that utility services are available, of the correct characteristics, and in the correct locations.

F. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION

A. Clean substrate surfaces prior to applying next material or substance.

B. Seal cracks or openings of substrate prior to applying next material or substance.

C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

3.03 GENERAL INSTALLATION REQUIREMENTS

A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.

B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.

C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.

D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.

E. Make neat transitions between different surfaces, maintaining texture and appearance.

3.04 CUTTING AND PATCHING

A. Whenever possible, execute the work by methods that avoid cutting or patching.

B. Perform whatever cutting and patching is necessary to:
1. Complete the work.
2. Fit products together to integrate with other work.
3. Provide openings for penetration of mechanical, electrical, and other services.
4. Match work that has been cut to adjacent work.
5. Repair areas adjacent to cuts to required condition.
6. Repair new work damaged by subsequent work.
7. Remove samples of installed work for testing when requested.
8. Remove and replace defective and non-complying work.

C. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.

D. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.

E. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.

F. Restore work with new products in accordance with requirements of Contract Documents.

G. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.

H. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 078400, to full thickness of the penetrated element.

I. Patching:
1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
2. Match color, texture, and appearance.
3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.

3.05 PROGRESS CLEANING

A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.

B. Remove debris and rubbish from chases, plenums, and other closed or remote spaces, prior to enclosing the space.

C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.

3.06 PROTECTION OF INSTALLED WORK

A. Protect installed work from damage by construction operations. Provide special protection where specified in individual specification sections.

B. Provide temporary and removable protection for installed products. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings. Control activity in immediate work area to prevent damage.

C. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.

D. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.

E. Remove protective coverings when no longer needed; reuse or recycle coverings if possible.

3.07 ADJUSTING

A. Adjust operating products and equipment to ensure smooth and unhindered operation.

3.08 FINAL CLEANING

A. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.

B. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment.

C. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.

D. Clean filters of operating equipment.

E. Clean site. Remove waste, debris, and surplus materials; dispose of in legal manner; do not burn or bury.

3.09 CLOSEOUT PROCEDURES

A. Make submittals that are required by governing or other authorities.

B. Notify Architect when work is considered ready for Architect's Substantial Completion inspection.

C. Submit written certification containing Contractor's Correction Punch List, that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Architect's Substantial Completion inspection.

D. Conduct Substantial Completion inspection and create Final Correction Punch List containing Architect's and Contractor's comprehensive list of items identified to be completed or corrected and submit to Architect.

E. Correct items of work listed in Final Correction Punch List and comply with requirements for access to Owner-occupied areas.

F. Submit fulll release of liens from major subcontractors and vendors.

G. Notify Architect when work is considered finally complete and ready for Architect's Substantial Completion final inspection.

H. Complete items of work determined by Architect listed in executed Certificate of Substantial Completion.

END OF SECTION 017000

SECTION 017800 - CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Project record documents.

B. Operation and maintenance data.

C. Warranties and bonds.

1.02 RELATED REQUIREMENTS

A. Section 013000 - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.

B. Individual Product Sections: Specific requirements for operation and maintenance data.

C. Individual Product Sections: Warranties required for specific products or Work.

1.03 SUBMITTALS

A. Project Record Documents: Submit documents to Architect with claim for final Application for Payment.

B. Operation and Maintenance Data:
1. For equipment, or component parts of equipment put into service during construction and operated by Owner, submit completed documents within ten days after acceptance.
2. Submit one copy of completed documents 15 days prior to final inspection. This copy will be reviewed and returned after final inspection, with Architect comments. Revise content of all document sets as required prior to final submission.
3. Submit electronic sets of revised final documents in final form within 10 days after final inspection.

C. Warranties and Bonds:
1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within 10 days after acceptance.
2. Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.
3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within 10 days after acceptance, listing the date of acceptance as the beginning of the warranty period.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PROJECT RECORD DOCUMENTS

A. Maintain on site one set of the following record documents; record actual revisions to the Work:
1. Drawings.
2. Addenda.
3. Change Orders and other modifications to the Contract.

B. Ensure entries are complete and accurate, enabling future reference by Owner.

C. Store record documents separate from documents used for construction.

D. Record information concurrent with construction progress.

E. Record Drawings: Legibly mark each item to record actual construction including:
1. Field changes of dimension and detail.
2. Details not on original Contract drawings.

3.02 OPERATION AND MAINTENANCE DATA

A. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.

B. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.

C. Typed Text: As required to supplement product data. Provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.

3.03 OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS

A. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.

3.04 WARRANTIES AND BONDS

A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until Date of Substantial completion is determined.

B. Verify that documents are in proper form, contain full information, and are notarized.

C. Co-execute submittals when required.

D. Retain warranties and bonds until time specified for submittal.

END OF SECTION 017800

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

SECTION 061000 - ROUGH CARPENTRY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Structural dimension lumber framing.

B. Preservative treated wood materials.

C. Fire retardant treated wood materials.

1.02 DELIVERY, STORAGE, AND HANDLING

A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

B. Fire Retardant Treated Wood: Prevent exposure to precipitation during shipping, storage, and installation.

PART 2 PRODUCTS

2.01 DIMENSION LUMBER

A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.

B. Sizes: Nominal sizes as indicated on drawings, S4S.

C. Moisture Content: S-dry or MC19.

D. Stud Framing (2 by 2 through 2 by 6):
1. Species: Douglas Fir-Larch or Western Hemlock; .WWPA G-5.
2. Species: Southern Pine, SPIB (GR).
3. Grade: No. 2 or better.

E. Joist, Rafter, and Small Beam Framing (2 by 6 through 4 by 16):
1. Species: Douglas Fir-Larch, WWPA G-5.
2. Species: Southern Pine, SPIB (GR).
3. Grade: No. 2.

F. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
1. Lumber: S4S, No. 2 or Standard Grade.
2. Boards: Standard or No. 3.

G. Finger-Jointed Materials: Not allowed

2.02 CONSTRUCTION PANELS

A. Sheathing: PS 2 type. 1/2 inch; 5/8 inch interior.
1. Bond Classification: Exterior.
2. Grade: Structural I Sheathing.
3. Span Rating: 24.
4. Performance Category: 5/16 PERF CAT.
5. Edge Profile: Square edge.

2.03 FACTORY WOOD TREATMENT

A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements.
2. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWPA standards.

B. Fire Retardant Treatment:

STATE OF MISSOURI
STEVEN B. WAKEMAN
NUMBER A-2020020380
12-12-25
ARCHITECT

STEVEN BRUCE WAKEMAN, ARCHITECT
100 HOWE AVENUE, SUITE 270N
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LEE'S SUMMIT, MO 64086

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www.cshqa.com

PERMIT SET

PROJECT	DATE
25154.000	12-11-2025
DRAWN	CHECKED
MDG	PS/SW

REVISED

SHEET TITLE
ARCHITECTURAL SPECS

SHEET
G22
ORIGINAL SHEET SIZE 24" x 36"

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1. Interior Type A: AWPA U1, Use Category UCFA, Commodity Specification H, low temperature (low hygroscopic) type, chemically treated and pressure impregnated; capable of providing a maximum flame spread index of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes.

C. Preservative Treatment:
1. Preservative Pressure Treatment of Lumber Above Grade: AWPA U1, Use Category UC3B, Commodity Specification A using waterborne preservative.
a. Kiln dry lumber after treatment to maximum moisture content of 19 percent.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. Select material sizes to minimize waste.

B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.

C. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

3.02 INSTALLATION OF CONSTRUCTION PANELS

A. Wall Sheathing: Secure with long dimension perpendicular to wall studs, with ends over firm bearing and staggered, using nails, screws, or staples.

END OF SECTION 061000

SECTION 062000 - FINISH CARPENTRY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Finish carpentry items including, but not limited to hardwood trim and moldings.

1.02 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.

PART 2 PRODUCTS

2.01 FINISH CARPENTRY ITEMS

A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

B. Interior Woodwork Items:
1. Moldings, Boards and Miscellaneous Trim: Species as indicated; prepare for paint finish.
2. Other woodwork items as indicated on Drawings.

2.02 LUMBER MATERIALS

A. Hardwood Lumber: Species as selected by Architect, maximum moisture content of 6 percent
1. Grading: In accordance with NHLA G-101 Grading Rules; www.nhla.org.

2.03 ACCESSORIES

A. Adhesive: Type recommended by fabricator to suit application.

B. Wood Filler: Solvent base, tinted to match surface finish color.

2.04 FABRICATION

A. Shop assemble work for delivery to site, permitting passage through building openings.

B. When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide trim for scribing and site cutting.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install custom fabrications in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.

B. Miter corners.

C. Set and secure materials and components in place, plumb and level.

D. Carefully scribe work abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim to conceal larger gaps.

3.02 PREPARATION FOR SITE FINISHING

A. Set exposed fasteners. Apply wood filler in exposed fastener indentations. Sand work smooth.

END OF SECTION 062000

SECTION 064100 - ARCHITECTURAL WOOD CASEWORK

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Specially fabricated cabinet units.

B. Hardware.

1.02 REFERENCE STANDARDS

A. ANSI A208.1 - American National Standard for Particleboard; 2016.

B. ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications; 2016.

C. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition; 2014, with Errata (2016).

D. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards; 2021, with Errata.

E. BHMA A156.9 - Cabinet Hardware; 2020.

F. DOC PS 1 - Structural Plywood (U.S. Department of Commerce, National Institute of Standards and Technology); 2019.

G. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.

1.03 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

B. Shop Drawings: Indicate materials, component profiles, fastening methods, jointing details, and accessories.

PART 2 PRODUCTS

2.01 CABINETS

A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

B. Plastic Laminate Faced Cabinets: Custom grade.

2.02 PANEL CORE MATERIALS

A. Particleboard: Composite panel composed of cellulosic particles, additives, and bonding system; comply with ANSI A208.1.

B. Medium Density Fiberboard (MDF): Composite panel composed of cellulosic fibers, additives, and bonding system; cured under heat and pressure; comply with ANSI A208.2.

C. Softwood Plywood: DOC PS 1, medium density overlay.

2.03 THERMALLY FUSED LAMINATE PANELS

A. Thermally Fused Laminate (TFL): Melamine- or polyester-resin-saturated decorative papers; for fusion to composite wood substrates under heat and pressure.
1. Test in accordance with NEMA LD 3 Section 3.
2. Panel Core Substrate: Particleboard.

2.04 LAMINATE MATERIALS

A. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.

B. Provide specific types as indicated.
1. Horizontal Surfaces: HGS, 0.048 inch nominal thickness.
2. Vertical Surfaces: VGS, 0.028 inch nominal thickness, through color, _____ color, finish as indicated.

2.05 ACCESSORIES

A. Adhesive: Type recommended by fabricator to suit application.

B. Plastic Edge Banding: Extruded PVC, convex shaped; smooth finish; self locking serrated tongue; of width to match component thickness.

2.06 HARDWARE

A. Hardware: BHMA A156.9, types as recommended by fabricator for quality grade specified.

2.07 FABRICATION

A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.

B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.

C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.

D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises. Locate counter butt joints minimum 2 feet from sink cut-outs.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.

B. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.

C. Use concealed joint fasteners to align and secure adjoining cabinet units.

END OF SECTION 064100

SECTION 068316 - FIBERGLASS REINFORCED PANELING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Fiberglass reinforced plastic panels.

B. Trim.

1.02 SUBMITTALS

A. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

B. Manufacturer's installation instructions.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Fiberglass Reinforced Plastic Panels: Provide product as indicated on Drawings.
1. Marlite, Inc: www.marlite.com/#sle.

2.02 MATERIALS

A. Panels: Fiberglass reinforced plastic (FRP), complying with ASTM D5319.
1. Surface Burning Characteristics: Maximum flame spread index of 25 and smoke developed index of 450; when system tested in accordance with ASTM E84.
2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
3. Surface Characteristics and Cleanability: Provide products that are smooth, durable, and easily cleanable, in compliance with FDA Food Code, Chapter 6 - Physical Facilities.

B. Trim: Vinyl; color coordinating with panel.

C. Fasteners: As recommended in writing by manufacturer .

D. Adhesive: Type recommended by panel manufacturer.

E. Sealant: Type recommended by panel manufacturer; white.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions and substrate flatness before starting work.

B. Verify that substrate conditions are ready to receive the work of this section.

3.02 INSTALLATION - WALLS

A. Install panels in accordance with manufacturer's written instructions.

B. Apply panels to wall with seams plumb and no closer to adjoining wall thjan 6 inches; align pattern with adjoining panels.

C. Install panels with manufacturer's recommended gap for panel field and corner joints.

D. Drive fasteners to provide snug fit, and do not over-tighten.

E. Seal gaps at floor, ceiling, and between panels with applicable sealant to prevent moisture intrusion.

F. Remove excess sealant after paneling is installed and prior to curing.

END OF SECTION 068316

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION 079200 - JOINT SEALANTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Nonsag gunnable joint sealants.

B. Self-leveling pourable joint sealants.

C. Joint backings and accessories.

1.02 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

B. Product Data: Submit manufacturer's technical datasheets for each product to be used; include the following:
1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
2. List of backing materials approved for use with the specific product.
3. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
4. Substrates the product should not be used on.

PART 2 PRODUCTS

2.01 JOINT SEALANT APPLICATIONS

A. Scope:
1. Interior Joints: Do not seal interior joints unless specifically indicated to be sealed. Interior joints to be sealed include, but are not limited to, the following items.
a. Joints between door, window, and other frames and adjacent construction.
b. Other joints indicated below.

B. Interior Joints: Use non-sag polyurethane sealant, unless otherwise indicated.
1. Wall and Ceiling Joints in Non-Wet Areas: Acrylic emulsion latex sealant.
2. Wall and Ceiling Joints in Wet Areas: Non-sag polyurethane sealant for continuous liquid immersion.
3. Floor Joints in Wet Areas: Non-sag polyurethane "non-traffic-grade" sealant suitable for continuous liquid immersion.
4. Wall, Ceiling, and Floor Joints Where Tamper-Resistance is Required: Non-sag elastomeric STPU sealant.
5. Joints between Fixtures in Wet Areas and Floors, Walls, and Ceilings: Mildew-resistant silicone sealant; white.
6. Other Floor Joints: Self-leveling polyurethane "traffic-grade" sealant.

C. Interior Wet Areas: restrooms, kitchens, food service areas, and food processing areas; fixtures in wet areas include plumbing fixtures, food service equipment, countertops, cabinets, and other similar items.

D. Areas Where Tamper-Resistance is Required: As indicated on drawings.

2.02 JOINT SEALANTS - GENERAL

A. Manufacturers:
1. Dow: www.dow.com/#sle.
2. Pecora Corporation: www.pecora.com/#sle.
3. Sherwin-Williams Company: www.sherwin-williams.com/#sle.
4. Sika Corporation: www.usa.sika.com/#sle.
5. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com/#sle.

B. Color: To be selected by Architect from manufacturer's standard range.

2.03 NONSAG JOINT SEALANTS

A. Non-Staining Ultra-low Modulus Silicone Sealant: ASTM C920, Grade NS, Uses M and A; not expected to withstand continuous water immersion or traffic.
1. Movement Capability: Plus and minus 50 percent, minimum.
2. Non-Staining to Porous Stone: Non-staining to light-colored natural stone when tested in accordance with ASTM C1248.
3. Dirt Pick-Up: Reduced dirt pick-up compared to other silicone sealants.
4. Hardness Range: 15 to 35, Shore A, when tested in accordance with ASTM C661.

B. Mildew-Resistant Silicone Sealant: ASTM C920, Grade NS, Uses M and A; single component, mildew resistant; not expected to withstand continuous water immersion or traffic.

C. Tamper-Resistant, Silyl-Terminated Polyurethane (STPU) Sealant: ASTM C920, Grade NS, Uses NT, T1, G, M, A, and O; single component; not expected to withstand continuous water immersion or traffic.
1. Movement Capability: Plus and minus 12-1/2 percent, minimum
2. Hardness Range: 25 to 30, Shore A, when tested in accordance with ASTM C661.

D. Polyurethane Sealant: ASTM C920, Grade NS, Uses M, G, O, and A; single component; not expected to withstand continuous water immersion or traffic.
1. Movement Capability: Plus and minus 50 percent, minimum.
2. Hardness Range: 20 to 35, Shore A, when tested in accordance with ASTM C661.

E. Polyurethane Sealant for Continuous Water Immersion: ASTM C920, Grade NS, Uses M and A; single or multi-component; explicitly approved by manufacturer for continuous water immersion; suitable for traffic exposure when recessed below traffic surface.
1. Movement Capability: Plus and minus 35 percent, minimum.
2. Hardness Range: 20 to 35, Shore A, when tested in accordance with ASTM C661.

F. Acrylic Emulsion Latex: Water-based; ASTM C834, single component, non-staining, non-bleeding, non-sagging; not intended for exterior use.
1. Grade: ASTM C834; Grade 0 Degrees F (Minus 18 Degrees C).

G. Non-Curing Butyl Sealant: Solvent-based, single component, non-sag, non-skinning, non-hardening, non-bleeding; non-vapor-permeable; intended for fully concealed applications.

2.04 SELF-LEVELING JOINT SEALANTS

A. Self-Leveling Polyurethane Sealant for Continuous Water Immersion: Polyurethane; ASTM C920, Grade P, Uses M and A; single component; explicitly approved by manufacturer for traffic exposure and continuous water immersion.
1. Movement Capability: Plus and minus 25 percent, minimum.

2.05 ACCESSORIES

A. Backer Rod: Cylindrical cellular foam rod with surface that sealant will not adhere to, compatible with specific sealant used, and recommended by backing and sealant manufacturers for specific application.
1. Open Cell: 40 to 50 percent larger in diameter than joint width.
2. Closed Cell and Bi-Cellular: 25 to 33 percent larger in diameter than joint width.

B. Backing Tape: Self-adhesive polyethylene tape with surface that sealant will not adhere to and recommended by tape and sealant manufacturers for specific application.

C. Primers: Type recommended by sealant manufacturer to suit application; nonstaining.

PART 3 EXECUTION

3.01 INSTALLATION

A. Perform work in accordance with sealant manufacturer's written requirements for preparation of surfaces and material installation instructions.

B. Provide joint sealant installations complying with ASTM C1193.

C. Install bond breaker backing tape where backer rod cannot be used.

D. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.

E. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.

F. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.

END OF SECTION 079200

DIVISION 08 - OPENINGS

SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Hollow metal doors with frames.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Hollow Metal Doors and Frames:
1. Ceco Door, an AssaAbloy Group company: www.assaabloydss.com/#sle.
2. Steelcraft, an Allegion brand: www.allegion.com/#sle.

2.02 PERFORMANCE REQUIREMENTS

A. Requirements for Hollow Metal Doors and Frames:
1. Steel Sheet: Comply with one or more of the following requirements; galvannealed steel complying with ASTM A653/A653M, cold-rolled steel complying with ASTM A1008/A1008M, commercial steel (CS) Type B, for each.
2. Accessibility: Comply with ICC A117.1 and ADA Standards.

2.03 HOLLOW METAL DOORS

A. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
1. Duty level as required by use.
2. Fire Rating: Where required; tested in accordance with UL 10C and NFPA 252 ("positive pressure fire tests"). Provide where indicated on Drawings.
3. Model 1 - Full Flush.
4. Door Face Metal Thickness: 18 gauge, 0.042 inch, minimum.

B. Door Core Material: Manufacturers standard core material/construction and in compliance with requirements.
1. Provide thermally insulated doors at exterior locations.

C. General requirements:
1. Door Thickness: 1-3/4 inches, nominal.
2. Door Face Sheets: Flush.
3. Weatherstripping: Refer to Section 087100.
4. Door Finish: Factory primed and field finished.

2.04 HOLLOW METAL FRAMES

A. Frame Finish: Factory primed and field finished.

B. Door Frames: Face welded type.
1. Frame Metal Thickness: 18 gauge, 0.042 inch, minimum.
2. Weatherstripping at exterior doors: Separate, see Section 087100.

2.05 FINISHES

A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard. Provide two coats.

2.06 ACCESSORIES

A. Grout for Frames: Mortar grout complying with ASTM C476 with maximum slump of 4 inches as measured in accordance with ASTM C143/C143M for hand troweling in place; plaster grout and thinner pumpable grout are prohibited.

B. Silencers: Resilient rubber, fitted into drilled hole; provide three on strike side of single door, three on center mullion of pairs, and two on head of pairs without center mullions.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install doors and frames in accordance with manufacturer's instructions and related requirements of specified door and frame standards or custom guidelines indicated.

B. Coordinate frame anchor placement with wall construction.

C. Grout frames in masonry construction, using hand trowel methods; brace frames so that pressure of grout before setting will not deform frames.

D. Install door hardware as specified in Section 087100.

E. Touch up damaged factory finishes.

END OF SECTION 081113

SECTION 084313 - ALUMINUM-FRAMED STOREFRONTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Aluminum-framed storefront, with vision glass.

B. Aluminum doors and frames.

C. Weatherstripping.

1.02 SUBMITTALS

A. Product Data: Provide component dimensions, describe components within assembly, anchorage and fasteners, glass and infill, door hardware, and internal drainage details.

B. Shop Drawings: Indicate system dimensions, framed opening requirements and tolerances, affected related work, expansion and contraction joint location and details, and field welding required.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Aluminum-Framed Storefronts Manufacturers:
1. Kawneer North America: www.kawneer.com/#sle.
2. Oldcastle BuildingEnvelope: www.oldcastlebe.com/#sle.

2.02 ALUMINUM-FRAMED STOREFRONT

A. Aluminum-Framed Storefront: Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.
1. Glazing Position: Centered (front to back).
2. Vertical Mullion Dimensions: 2 inches wide by 4-1/2 inches deep.
3. Fabrication: Joints and corners flush, hairline, and weatherproof, accurately fitted and secured; prepared to receive anchors and hardware; fasteners and attachments concealed from view; reinforced as required for imposed loads.
4. Construction: Eliminate noises caused by wind and thermal movement, prevent vibration harmonics, and prevent "stack effect" in internal spaces.
5. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.
6. Expansion/Contraction: Provide for expansion and contraction within system components caused by cycling temperature range of 170 degrees F over a 12 hour period without causing detrimental effect to system components, anchorages, and other building elements.
7. Movement: Allow for movement between storefront and adjacent construction, without damage to components or deterioration of seals.
8. Perimeter Clearance: Minimize space between framing members and adjacent construction while allowing expected movement.

B. Performance Requirements
1. Wind Loads: Design and size components to withstand the specified load requirements without damage or permanent set, when tested in accordance with ASTM E330/E330M, using loads 1.5 times the design wind loads and 10 second duration of maximum load.
a. Design Wind Loads: Comply with requirements of ASCE 7.
b. Member Deflection: Limit member deflection to flexure limit of glass in any direction, with full recovery of glazing materials.
2. Air Leakage: 0.06 cfm/sq ft maximum leakage of storefront wall area when tested in accordance with ASTM E283/E283M at 1.57 psf pressure difference.
3. Air Leakage: 0.06 cfm/sq ft maximum leakage of storefront wall area when tested in accordance with ASTM E283/E283M at 1.57 psf pressure difference.

2.03 COMPONENTS

A. Aluminum Framing Members: Tubular aluminum sections, thermally broken with interior section insulated from exterior, drainage holes and internal weep drainage system.
1. Glazing Stops: Flush.

B. Swing Doors: Glazed aluminum.
1. Vertical Stiles: Medium stile, 3-1/2 inches wide.

2.04 MATERIALS

A. Extruded Aluminum: ASTM B221 (ASTM B221M).

B. Fasteners: Stainless steel.

C. Glazing Gaskets: Type to suit application to achieve weather, moisture, and air infiltration requirements.

2.05 FINISHES

A. Finish and Color: As indicated on Drawings, complying with applicable AAMA standard.

2.06 HARDWARE

A. Weatherstripping: Wool pile, continuous and replaceable; provide on all exterior doors.

B. Sill Sweep Strips: Resilient seal type, of neoprene; provide on all doors.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install wall system in accordance with manufacturer's instructions.

B. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.

C. Provide alignment attachments and shims to permanently fasten system to building structure.

D. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.

E. Provide thermal isolation where components penetrate or disrupt building insulation.

F. Install sill flashings. Turn up ends and edges; seal to adjacent work to form water tight dam.

G. Where fasteners penetrate sill flashings, make watertight by seating and sealing fastener heads to sill flashing.

H. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.

I. Install hardware using templates provided.

J. Touch-up minor damage to factory applied finish; replace components that cannot be satisfactorily repaired.

3.02 ADJUSTING

A. Adjust operating hardware and sash for smooth operation.

END OF SECTION 084313

SECTION 087100 - DOOR HARDWARE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Hardware for wood, aluminum, and hollow metal doors.

B. Hardware for fire-rated doors.

1.02 SUBMITTALS

A. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project, and includes construction details, material descriptions, finishes, and dimensions and profiles of individual components.

B. Shop Drawings - Door Hardware Schedule: Submit detailed listing that includes each item of hardware to be installed on each door. Use door numbering scheme as included in Contract Documents.

PART 2 PRODUCTS

2.01 DESIGN AND PERFORMANCE CRITERIA

A. Provide specified door hardware as indicated on Drawings and as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.

B. Provide individual items of single type, of same model, and by same manufacturer.

C. Provide door hardware products that comply with the following requirements:
1. Applicable provisions of federal, state, and local codes.
2. Accessibility: ADA Standards and ICC A117.1.
3. Applicable provisions of NFPA 101.
4. Fire-Rated Doors: NFPA 80, listed and labeled by qualified testing agency for fire protection ratings indicated, based on testing at positive pressure in accordance with NFPA 252 or UL 10C.
5. Listed and certified compliant with specified standards by BHMA (CPD).
6. Hardware Preparation for Steel Doors and Steel Frames: BHMA A156.115.
7. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115W.

2.02 FINISHES

A. Finishes: Provide door hardware of same finish, unless otherwise indicated.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install hardware in accordance with manufacturer's instructions and applicable codes.

B. Install hardware on fire-rated doors and frames in accordance with applicable codes and NFPA 80.

C. Use templates provided by hardware item manufacturer.

D. Door Hardware Mounting Heights: Distance from finished floor to center line of hardware item.
1. For Steel Doors and Frames: Install in compliance with DHI (LOCS) recommendations.
2. For Wood Doors: Install in compliance with DHI WDHS.3 recommendations.
3. Mounting heights in compliance with ADA Standards:

E. Set exterior door thresholds with full-width bead of elastomeric sealant at each point of contact with floor providing a continuous weather seal; anchor thresholds with stainless steel countersunk screws.

END OF SECTION 087100

SECTION 088000 - GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Insulating glass units.

B. Glazing units.

C. Glazing compounds.

1.02 QUALITY ASSURANCE

A. Perform Work in accordance with GANA (GM), GANA (SM), GANA (LGRM), and IGMA TM-3000 for glazing installation methods.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS - EXTERIOR GLAZING ASSEMBLIES

A. Provide type and thickness of exterior glazing assemblies to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of glass. Design Pressure: Calculated in accordance with ASCE 7.
1. Comply with ASTM E1300 for design load resistance of glass type, thickness, dimensions, and maximum lateral deflection of supported glass.
2. Seismic Loads: Where applicable, design and size glazing components to withstand seismic loads and sway displacement in accordance with the requirements of ASCE 7
3. Provide glass edge support system sufficiently stiff to limit the lateral deflection of supported glass edges to less than 1/175 of their lengths under specified design load.
4. Glass thicknesses listed are minimum.

B. Weather-Resistive Barrier Seals: Where applicable and indicated on Drwaings, provide completed assemblies that maintain continuity of building enclosure water-resistive barrier, vapor retarder, and/or air barrier.

STATE OF MISSOURI
STEVEN B. WAKEMAN
NUMBER A-2020020380
12-12-25
ARCHITECT

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CSHQA

PERMIT SET

PROJECT	DATE
25154.000	12-11-2025
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MDG	PS/SW

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SHEET TITLE
ARCHIECTURAL SPECS

SHEET
G23
ORIGINAL SHEET SIZE 24" x 36"

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1. In conjunction with weather barrier related materials described in other sections, as follows:

C. Thermal and Optical Performance: Provide exterior glazing products with performance properties as indicated. Performance properties are in accordance with manufacturer's published data as determined with applicable NFRC test methods.

2.02 GLASS MATERIALS

A. Float Glass: Provide float glass based glazing unless otherwise indicated.
1. Annealed Type: ASTM C1036, Type I - Transparent Flat, Class 1 - Clear, Quality - Q3.
2. Fully Tempered Safety Glass: Complies with ANSI Z97.1 or 16 CFR 1201 criteria for safety glazing used in hazardous locations.

2.03 INSULATING GLASS UNITS

A. Insulating Glass Units: Types as indicated.
1. Durability: Certified by an independent testing agency to comply with ASTM E2190.
2. Coated Glass: Comply with requirements of ASTM C1376 for pyrolytic (hard-coat) or magnetic sputter vapor deposition (soft-coat) type coatings on flat glass; coated vision glass, Kind CV; coated overhead glass, Kind CO_3 or coated spandrel glass, Kind CS.
3. Metal-Edge Spacers: Aluminum, bent and soldered corners.
4. Spacer Color: Black.
5. Edge Seal:
a. Color: Black.

B. Insulating Glass Units: Vision glass, double glazed.
1. Applications: Exterior glazing unless otherwise indicated.
2. Space between lites filled with air.
3. Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
a. Tint: A selected by Architect or Franchisee.
b. Coating: As selected by Architect.
4. Metal edge spacer.
5. Inboard Lite: Annealed float glass, 1/4 inch thick, minimum.
a. Tint: As slected by Architect or Franchisee.
6. Total Thickness: 1 inch.
7. Performance:Meet energy performance requirements

2.04 GLAZING UNITS

A. Monolithic Interior Vision Glazing:
1. Applications: Interior glazing unless otherwise indicated.
2. Glass Type: Annealed float glass.
3. Tint: As slected by Architect or Franchisee.
4. Thickness: 1/4 inch, nominal.

2.05 GLAZING COMPOUNDS

A. Glazing Putty: Polymer modified latex recommended by manufacturer for outdoor use, knife grade consistency; gray color.

B. Silicone Sealant: Single component; neutral curing; capable of water immersion without loss of properties; nonbleeding, nonstaining; ASTM C920Type S, Grade NS, Uses NT ; with cured Shore A hardness range of 15 to 25; color as selected.

2.06 ACCESSORIES

A. Setting Blocks: Elastomeric, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II.

B. Glazing Tape, Back Bedding Mastic Type: Preformed, butyl-based, 100 percent solids compound with integral resilient spacer rod applicable to application indicated; 5 to 30 cured Shore A durometer hardness; coiled on release paper; black color.

C. Glazing Clips: Manufacturer's standard type.

PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.

B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.

3.02 INSTALLATION, GENERAL

A. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and glazing, sealant, and accessories manufactures' written instructions.

B. General Installation:
1. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.
2. Rest glazing on setting blocks and push against fixed stop or tape with sufficient pressure on gasket, tape, or fixed stop to attain full contact.
3. Install removable stops without displacing glazing gasket, glazing gasket, or glazing spline as applicable. Exert pressure for full continuous contact.

END OF SECTION 088000

DIVISION 09 - FINISHES

SECTION 092116 - GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Metal stud wall framing.

B. Metal channel ceiling framing.

C. Acoustic insulation.

D. Gypsum wallboard.

E. Joint treatment and accessories.

1.02 SUBMITTALS

A. Product Data:
1. Provide data on metal framing, gypsum board, accessories, and joint finishing system.
2. Provide manufacturer's data on partition head to structure connectors, showing compliance with requirements.

B. Steel Framing Industry Association (SFIA) Certification:
1. Submit documentation that metal studs and connectors used on project meet or exceed requirements of International Building Code.
2. Submit current documentation of contractor and fabricator accreditation. Keep copies of each on-site during and after installation, and present upon request.

C. Test Reports: For stud framing products that do not comply with ASTM C645 or ASTM C754, provide independent laboratory reports showing maximum stud heights at required spacings and deflections.

D. Test Reports: For power-actuated powder-driven fasteners, provide independent laboratory reports showing compliance with ICC-ES AC70.

PART 2 PRODUCTS

2.01 METAL FRAMING MATERIALS

A. Steel Sheet: ASTM A1003/A1003M, subject to the ductility limitations indicated in AISI S220 or equivalent.

B. Manufacturers - Metal Framing, Connectors, and Accessories:
1. ClarkDietrich: www.clarkdietrich.com/#sle.
2. Fire Trak Corp.
3. Marino: www.marinoware.com/#sle.
4. Steel Construction Systems: www.steelconsystems.com/#sle.

C. Nonstructural Framing System Components: AISI S220; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of wall framing of L/120 at 5 psf.
1. Studs: C-shaped with knurled or embossed faces, 20 gauge, flanges not less than 1-1/4 inch.
2. Runners: U shaped, sized to match studs.
3. Ceiling Channels: C-shaped.
4. Furring Members: Hat-shaped sections, 22 gauge, minimum depth of 7/8 inch.

D. Partition Head To Structure Connections: Provide track fastened to structure with legs of sufficient length to accommodate deflection, for friction fit of studs cut short and fastened as indicated on drawings.

E. Deflection and Firestop Track: Intumescent strip factory-applied to track flanges expands when exposed to heat or flames to provide a perimeter joint seal.

F. Preformed Top Track or Top Wall Firestop Seal or Gasket:
1. Provide components UL-listed for use in UL-listed fire-resistance-rated head of partition joint systems of fire rating and movement required.

G. Non-structural Framing Accessories:
1. Ceiling Hangers: Type and size as specified in ASTM C754 for spacing required.
2. Partial Height Wall Framing Support: Provides stud reinforcement and anchored connection to floor.
a. Materials: ASTM A36/A36M formed sheet steel support member with factory-welded ASTM A1003/A1003M steel plate base.
3. Framing Connectors: ASTM A653/A653M G90 galvanized steel clips; secures cold rolled channel to wall studs for lateral bracing.
4. Powder-actuated fasteners: Corrosion resistant power-actuated power-driven anchors, complying with ICC-ES AC70 criteria for allowable load capacities, as tested in compliance with ASTM E1190 by a qualified testing agency.
a. Products:
1) Hilti North America; Premium fastener w/washer X-U 32 P8 S15.

2.02 BOARD MATERIALS

A. Manufacturers - Gypsum-Based Board:
1. American Gypsum Company: www.americangypsum.com/#sle.
2. CertainTeed Corporation: www.certainteed.com/#sle.
3. Georgia-Pacific Gypsum: www.gpgypsum.com/#sle.
4. National Gypsum Company: www.nationalgypsum.com/#sle.
5. USG Corporation: www.usg.com/#sle.

B. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.
2. Type and Thickness: Type X, 5/8 inch thick.

C. Moisture Resistant: Use on wet walls in Restrooms, Utility, and Kitchen
1. Glass Mat Faced Board: Coated glass mat water-resistant gypsum backing panel as defined in ASTM C1178/C1178M.
a. Fire-Resistance-Rated Type: Type X core, thickness 5/8 inch.

2.03 GYPSUM BOARD ACCESSORIES

A. Acoustic Insulation: ASTM C665; preformed glass fiber, friction fit type, unfaced. Thickness: As indicated on Drawings.

B. Beads, Joint Accessories, and Other Trim: ASTM C1047, rigid plastic, galvanized steel, or rolled zinc, unless noted otherwise.
1. Corner Beads: Low profile, for 90 degree outside corners.
2. L-Trim: Sized to fit 5/8 inch thick gypsum wallboard. Use at exposed drywall edges and there drywall abuts dissimilar construction.

C. Joint Materials: ASTM C475/C475M and as recommended by gypsum board manufacturer for project conditions.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that project conditions are appropriate for work of this section to commence.

3.02 FRAMING INSTALLATION

A. Metal Framing: Install in accordance with ASTM C754 and manufacturer's instructions.
1. Install runners in compliance with ASTM C754 and as indicated on Drawings. Use powder actuated fasteners where indicated.

B. Suspended Ceilings and Soffits: Space framing and furring members as indicated.

C. Studs: Space studs at 16 inches on center.
1. Extend partition framing to structure where indicated and to ceiling in other locations.
2. Partitions Terminating at Ceiling: Attach ceiling runner securely to ceiling track in accordance with manufacturer's instructions.
3. Partitions Terminating at Structure: Attach extended leg top runner to structure, maintain clearance between top of studs and structure, and brace both flanges of studs with continuous bridging.

D. Standard Wall Furring: Install at concrete walls scheduled to receive gypsum board, not more than 4 inches from floor and ceiling lines and abutting walls. Secure in place on alternate channel flanges at maximum 24 inches on center.

3.03 BOARD INSTALLATION

A. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.

3.04 JOINT TREATMENT

A. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
1. Level 1: Fire-resistance-rated wall areas above finished ceilings, whether or not accessible in the completed construction.

B. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
1. Feather coats of joint compound so that camber is maximum 1/32 inch.

END OF SECTION 092116

SECTION 093000 - TILING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Tile for applications as indicated on Drawings.

B. Tile for floor applications.

C. Non-ceramic trim.

1.02 SUBMITTALS

A. Product Data: Provide manufacturers' data sheets on tile, mortar, grout, and accessories. Include instructions for using grouts and adhesives.

B. Shop Drawings: Indicate tile layout, patterns, color arrangement, perimeter conditions, junctions with dissimilar materials, control and expansion joints, thresholds, ceramic accessories, and setting details.

1.03 QUALITY ASSURANCE

A. Installer Qualifications:
1. Apprenticeship Program: Installer has achieved Journeyworker status through an apprenticeship from the International Union of Bricklayers and Allied Craftworkers (IUBAC) or a U.S. Department of Labor (DOL)-recognized program.

PART 2 PRODUCTS

2.01 TILE

A. Provide products as indicated on Drawings and in compliance with applicable grade as defined by ANSI A137.1.
1. Dynamic Coefficient of Friction: Minimum 0.42, ANSI A326.3, for floor tiling in wet areas.

B. Quarry Tile: ANSI A137.1 standard grade.
1. Moisture Absorption: Over 3.0 but not more than 5.0 percent as tested in accordance with ASTM C373.
2. Dynamic Coefficient of Friction (DCOF): Not less than 0.42.
3. Trim Units: Matching cove base shapes in sizes indicated.

C. Pressed Floor Tile: ANSI A137.1 standard grade.
1. Moisture Absorption: 0.5 to 3.0 percent as tested in accordance with ASTM C373.

2.02 TRIM AND ACCESSORIES

A. Non-Ceramic Trim: Brushed stainless steel, style and dimensions as indicated on drawings, for setting using tile mortar or adhesive.
1. Applications: As indicated on Drawings,

2.03 SETTING MATERIALS

A. Provide setting and grout materials from same manufacturer.

B. Provide setting and grout materials complying with TCNA requirements for installation method and with the following as applicable:
1. High Performance Polymer Modified Grout: ANSI A118.7 polymer modified cement grout.
2. Improved Latex-Portland Cement Mortar Bond Coat: ANSI A118.15.
3. Furan Mortar Bond Coat and Furan Grout: ANSI A118.5.
4. Dry-Set Portland Cement Mortar Bond Coat: ANSI A118.1.

C. Use sanded grout for joints 1/8 inch wide and larger; use unsanded grout for joints less than 1/8 inch wide.

D. Improved Latex-Portland Cement Mortar Bond Coat: ANSI A118.15.

2.04 MAINTENANCE MATERIALS

A. Grout Sealer: Liquid-applied, moisture and stain protection for existing or new Portland cement grout.
1. Composition: Water-based colorless silicone.

2.05 ACCESSORY MATERIALS

A. Waterproofing Membrane at Floors: Specifically designed for bonding to cementitious substrate under thick mortar bed or thin-set tile; complying with ANSI A118.10.
1. Crack Resistance: No failure at 1/16 inch gap, minimum; comply with ANSI A118.12.
2. Fluid or Trowel Applied Type:
a. Material: Synthetic rubber or Acrylic.
b. Thickness: 25 mils, minimum, dry film thickness.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. Install tile and grout in accordance with applicable requirements of ANSI A108.1a through ANSI A108.20, manufacturer's instructions, and TCNA (HB) recommendations.

B. Lay tile to pattern indicated. Do not interrupt tile pattern through openings.

C. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly.

D. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make grout joints without voids, cracks, excess mortar or excess grout, or too little grout.

E. Form internal angles square and external angles bullnosed.

F. Install non-ceramic trim in accordance with manufacturer's instructions.

G. Sound tile after setting. Replace hollow sounding units.

H. Prior to grouting, allow installation to completely cure; minimum of 48 hours.

I. Grout tile joints unless otherwise indicated. Use grout as recommended in TCNA installation method for application .

J. At changes in plane and tile-to-tile control joints, use tile sealant instead of grout, with either bond breaker tape or backer rod as appropriate to prevent three-sided bonding.

3.02 INSTALLATION - FLOORS - MORTAR BED METHODS

A. Over interior concrete substrates, install in accordance with TCNA (HB) Method F111, with cleavage membrane, unless otherwise indicated.
1. Where waterproofing membrane is indicated, with standard grout or no mention of grout type, install in accordance with TCNA (HB) Method F121.
2. Where epoxy or furan grout is indicated, but not epoxy or furan bond coat, install in accordance with TCNA (HB) Method F114, with cleavage membrane.

B. Cleavage Membrane: Lap edges and ends.

C. Mortar Bed Thickness: 5/8 inch, unless otherwise indicated.

3.03 PROTECTION

A. Do not permit traffic over finished floor surface for 4 days after installation.

END OF SECTION 093000

SECTION 095100 - ACOUSTICAL CEILINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Suspended metal grid ceiling system.

B. Acoustical units.

1.02 SUBMITTALS

A. Product Data: Provide data on suspension system components and acoustical units.

B. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
1. See Section 016000 - Product Requirements, for additional provisions.

PART 2 PRODUCTS

2.01 ACOUSTICAL UNITS

A. Acoustical Units - General: ASTM E1264, Class A.

B. Provide product(s) as indicated on Drawing.

2.02 SUSPENSION SYSTEM(S)

A. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with perimeter moldings, hold down clips, stabilizer bars, clips, and splices as required.

B. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with perimeter moldings, hold down clips, stabilizer bars, clips, and splices as required.
1. Color: As indicated on Drawings.

2.03 ACCESSORIES

A. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.

B. Hanger Wire: 12 gauge, 0.08 inch galvanized steel wire.

C. Seismic Clips, as required: Manufacturer's standard clips for seismic conditions and to suit application.

D. Perimeter Moldings: As indicated on Drawings.

PART 3 EXECUTION

3.01 INSTALLATION - SUSPENSION SYSTEM

A. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, and manufacturer's instructions and as supplemented in this section.

B. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.

C. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.

D. Suspension System: Install as follows for applicable seismic zone:
1. Non-Seismic: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
2. Seismic Design Category C: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Maintain a 3/8 inch clearance between grid ends and wall.
3. Seismic Design Categories D, E, F: Hang suspension system with grid ends attached to the perimeter molding on two adjacent walls; on opposite walls, maintain a 3/4 inch clearance between grid ends and wall.

E. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.

F. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.

G. Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.

H. Do not eccentrically load system or induce rotation of runners.

3.02 INSTALLATION - ACOUSTICAL UNITS

A. Install acoustical units in accordance with manufacturer's written instructions.

B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.

C. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.

D. Cutting Acoustical Units: Make field cut edges of same profile as factory edges.

END OF SECTION 095100

SECTION 097200 - WALL COVERINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Surface preparation.

B. Wall covering.

1.02 SUBMITTALS

A. Product Data: Provide data on wall covering and adhesive.

B. Shop Drawings: Indicate wall elevations with seaming layout.

C. Samples: Submit two samples of digitally printed wall covering of representative wall art as selected by Architect, in size illustrating color, finish, and texture.

1.03 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the adhesive or wall covering product manufacturer.

B. Maintain these conditions 24 hours before, during, and after installation of adhesive and wall covering.

PART 2 PRODUCTS

2.01 WALL COVERINGS

A. Products: Provide products as indicated on Drawings.

B. General Requirements:
1. Complying with applicable class, ASTM F793/F793M.

C. Wall Covering: Stainless steel sheet protective wall covering
1. Stainless Steel Sheet: ASTM A666 Type 304 commercial grade, No. 4 finish.

D. Wall Covering: Digitally printed secorative high-impact rigid vinyl sheet with polyvinyl fluoride over clear vinyl film cap.
1. Digital Graphics: Provide by Architect.

E. Wall Covering: Digitally printed cast vinyl film for permanent bonding to surface.
1. Thickness: 0.008 inch, minimum.
2. Digital Graphics: Provide by Architect.
3. Adhesive Type: Pressure sensitive acrylic.
4. Tensile Strength: 4.0 to 8.0 psi minimum when tested in accordance with ASTM D882.
5. Surface Burning Characteristics: Flame spread index of 25, maximum, and smoke developed index of 450, maximum, when tested in accordance with ASTM E84 (Class A).

F. Adhesive: Type recommended by wall covering manufacturer to suit application to substrate.

G. Substrate Filler: As recommended by adhesive and wall covering manufacturers; compatible with substrate.

PART 3 EXECUTION

3.01 PREPARATION

A. Fill cracks in substrate and smooth irregularities with filler; sand smooth.

B. Wash impervious surfaces with tetra-sodium phosphate, rinse and neutralize; wipe dry.

C. Surface Appurtenances: Remove or mask electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces or finishing.

D. Vacuum clean surfaces free of loose particles.

3.02 INSTALLATION

A. Apply adhesive and wall covering in accordance with manufacturer's written instructions.

B. Apply adhesive to wall surface immediately prior to application of wall covering.

C. Apply wall covering smooth, without wrinkles, gaps or overlaps. Eliminate air pockets and ensure full bond to substrate surface.

D. Butt edges tightly.

END OF SECTION 097200

SECTION 099100 - PAINTING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Surface preparation.

B. Field application of paints.

C. Scope: Finish surfaces exposed to view, unless fully factory-finished and unless otherwise indicated

1.02 SUBMITTALS

A. Product Data: Provide complete list of products to be used, with the following information for each:
1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
2. MPI product number, where applicable (e.g. MPI #47).
3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.

PART 2 PRODUCTS

2.01 PAINTS AND FINISHES - GENERAL

A. Paints and Finishes: Ready-mixed, unless intended to be a field-catalyzed paint.
1. Provide paints and finishes from the same manufacturer to the greatest extent possible.
2. Provide products as indicated on Drawings in indicated color and sheen.
3. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
4. Supply each paint material in quantity required to complete entire project's work from a single production run.
5. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is described explicitly in manufacturer's product instructions.
6. Manufacturer: Sherwin-Williams Company: www.sherwin-williams.com/#sle.

PART 3 EXECUTION

3.01 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing.

D. Seal surfaces that might cause bleed through or staining of topcoat.

3.02 APPLICATION

A. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".

B. Allow applied coats to dry before next coat is applied.

C. Apply each coat to uniform appearance in thicknesses specified by manufacturer.

D. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.

E. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

END OF SECTION 099100

DIVISION 10 - SPECIALTIES

SECTION 101400 - SIGNAGE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Room signs.

B. Display Signs

C. Vinyl applications

1.02 REFERENCE STANDARDS

A. 36 CFR 1191 - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; current edition.

B. ADA Standards - Americans with Disabilities Act (ADA) Standards for Accessible Design; 2010.

C. ASTM D882 - Standard Test Method for Tensile Properties of Thin Plastic Sheeting; 2018.

D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.

E. DOC PS 1 - Structural Plywood (U.S. Department of Commerce, National Institute of Standards and Technology); 2019.

F. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

1.03 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Product Data: Manufacturer's printed product literature for each type of sign, indicating sign styles, font, foreground and background colors, locations, overall dimensions of each sign.

C. Signage Schedule: Provide information sufficient to completely define each sign for fabrication, including room number, room name, other text to be applied, sign and letter sizes, fonts, and colors.
1. When room numbers to appear on signs differ from those on drawings, include the drawing room number on schedule.
2. When content of signs is indicated to be determined later, request such information from Owner through Architect at least 2 months prior to start of fabrication; upon request, submit preliminary schedule.
3. Submit for approval by Owner through Architect prior to fabrication.

D. Samples: Submit two samples of each type of sign, of size similar to that required for project, illustrating sign style, font, and method of attachment.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Package signs as required to prevent damage before installation.

B. Package room and door signs in sequential order of installation, labeled by floor or building.

C. Store tape adhesive at normal room temperature.

1.06 FIELD CONDITIONS

A. Do not install tape adhesive when ambient temperature is lower than recommended by manufacturer.

B. Maintain this minimum temperature during and after installation of signs.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Flat Signs:
1. APCO Signs, Inc.: www.apcosigns.com/#sle.
2. ASI Sign Systems: www.asisign.com/#sle
3. FASTSIGNS: www.fastsigns.com/#sle.
4. Mohawk Sign Systems, Inc: www.mohawksign.com/#sle.
5. Poblocki Sign Company: www.poblocki.com/

2.02 SIGNAGE APPLICATIONS

A. Accessibility Compliance: Signs are required to comply with ADA Standards and ICC A117.1 and applicable building codes, unless otherwise indicated; in the event of conflicting requirements, comply with the most comprehensive and specific requirements.

B. Room Signs: Provide a sign for every doorway, not including corridors, lobbies, and similar open areas, and in compliance with Owner's signage standards.
1. Provide "tactile" signage, with letters raised minimum 1/32 inch and Grade II braille.
2. Character Height: Comply with ICC A117.1.
3. Dimensions: As indicated on Drawings.
4. Color: As indicated on Drawings.
5. Rest Rooms: Identify with pictograms, the names "MEN" and "WOMEN", and braille.

C. Vinyl Applications: Digitally printed cast vinyl film for permanent bonding to surface.
1. Thickness: 0.008 inch, minimum.

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PERMIT SET

PROJECT	DATE
25154.000	12-11-2025
DRAWN	CHECKED
MDG	PS/SW

REVISED

SHEET TITLE
ARCHITECTURAL SPECS

SHEET
G24
ORIGINAL SHEET SIZE 24" x 36"

12/16/2025 12:24:45 PM

2. Digital Graphics: Provide by Architect.
3. Adhesive Type: Pressure sensitive acrylic.
4. Tensile Strength: 4.0 to 8.0 psi minimum when tested in accordance with ASTM D882.
5. Surface Burning Characteristics: Flame spread index of 25, maximum, and smoke developed index of 450, maximum, when tested in accordance with ASTM E84 (Class A).

2.03 TACTILE SIGNAGE MEDIA

A. Applied Character Panels: Acrylic plastic base, with applied acrylic machine routed plastic letters, and glass raster braille. pa.
1. Letter Thickness: 1/16 inch.
2. Letter Edges: Square.
3. Subject to prior approval, photopolymer signs may be acceptable.

2.04 NON-TACTILE SIGNAGE MEDIA

A. Computer-controled machine-cut calendared vinyl lettering.

2.05 ACCESSORIES

A. Concealed Screws: Stainless steel, galvanized steel, chrome plated, or other non-corroding metal.
B. Moderately expanded closed-cell polyvinyl chloride (PVC) extruded in a homogenous sheet Lightweight rigid board with a low gloss matte finish. (Sintra)
C. Softwood Plywood: DOC PS 1, medium density overlay. Thickness as indicated on Drawings.
D. Tape Adhesive: Double sided tape, acrylic foam PVB tape.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate surfaces are ready to receive work.

3.02 INSTALLATION

A. Install in accordance with manufacturer's written instructions.
B. Install neatly, with horizontal edges level.
C. Do not apply glazing film when surface temperature is less that 40 degrees F or if precipitation is imminent.
D. Accurately cut film with straight edges to required sizes allowing 1/16 inch to 1/8 inch gap at perimeter of glazed panel unless otherwise required by anchorage method.
E. Provide vinyl backer matching sign at signs mounted on glazing.
F. Locate signs and mount at heights indicated on drawings and in accordance with ADA Standards and ICC A117.1.
G. Protect from damage until Date of Substantial Completion; repair or replace damaged items.

END OF SECTION 101400

SECTION 102800 - TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 2 PRODUCTS

1.01 MATERIALS

A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.
B. Keys: Provide 3 keys for each accessory to Owner; master key lockable accessories.
C. Stainless Steel Sheet: ASTM A666, Type 304.
D. Stainless Steel Tubing: ASTM A269/A269M, Grade TP304 or TP316.

1.02 FINISHES

A. Stainless Steel: Satin finish, unless otherwise noted.

1.03 COMMERCIAL TOILET ACCESSORIES

A. Provide accessories as scheduled on Drawings.

PART 3 EXECUTION

2.01 INSTALLATION

A. Install accessories in accordance with manufacturers' instructions in locations indicated on drawings.
B. Install plumb and level, securely and rigidly anchored to substrate.
C. Mounting Heights: As required by accessibility regulations, unless otherwise indicated.

END OF SECTION 102800

DIVISION 11 - EQUIPMENT

SECTION 114000 - FOODSERVICE EQUIPMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Foodservice equipment.
B. Connections to utilities.

1.02 REFERENCE STANDARDS

A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.
B. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2015.
C. ASTM C1036 - Standard Specification for Flat Glass; 2021.
D. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.

1.03 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide data on appliances; indicate configuration, sizes, materials, finishes, locations, and utility service connection locations, service characteristics, and wiring diagrams.
C. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.04 WARRANTY

A. See Section 017800 - Closeout Submittals, for additional warranty requirements.
B. Correct defective work of this section within a five year period after Date of Substantial Completion.
C. Provide five year manufacturer warranty for replacement or repair of scheduled equipment, refrigerant and compressors, including disconnection and removal of defective unit, and connection of replacement unit.

PART 2 PRODUCTS

2.01 EQUIPMENT

A. Equipment Schedule: Refer to schedule at end of this section.
B. Installation Accessories: Provide rough-in hardware, supports and connections, attachment devices, closure trim, and accessories as required for complete installation.

2.02 MATERIALS

A. Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G90/Z275 coating.
B. Stainless Steel Sheet: ASTM A666 Type 304 commercial grade, No. 4 finish.
C. Glass: ASTM C1036 annealed, and laminated, 4 mm thick; exposed edges ground; cut or drilled to receive hardware.
D. Plastic Laminate: NEMA LD 3, HGS ; acid-resistant ; _____ color ; textured, low gloss finish.
E. Laminate Backing Sheets: NEMA LD 3, BKL; unfinished, plastic laminate.
F. Finish Hardware: Manufacturer's standard.
G. Work Surfaces: Solid, laminated maple.
H. Fittings: Sink drains with crumb cup and waste fittings.

2.03 FABRICATION

A. Install rubber button feet on bearing surface of any item positioned on a finished surface.
B. Isolate rotating or reciprocating machinery to prevent noise and vibration.
C. Provide indirect drain piping from equipment to terminate over nearest waste receptor.
D. Accommodate site installation of other services or equipment.

2.04 FINISHES

A. Components: Shop finish.
B. Metal (Except Stainless Steel): Degrease and phosphate etch, prime and apply minimum two coats factory baked epoxy, color as selected.
C. Stainless Steel: No. 4 finish.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify ventilation outlets, service connections, and supports are correct and in required location.
B. Verify that electric power is available and of the correct characteristics.

3.02 INSTALLATION

A. Install items in accordance with manufacturers' instructions.
B. Insulate to prevent electrolysis between dissimilar metals.
C. Weld and grind joints in steel work tight, without open seams, where necessary due to limitations of sheet sizes or installation requirements.
D. Use anchoring devices appropriate for equipment and expected usage.

3.03 FOODSERVICE EQUIPMENT SCHEDULE

A. As scheduled on Drawings.

END OF SECTION 114000

DIVISION 12 - FURNISHINGS

SECTION 123600 - COUNTERTOPS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Countertops

1.02 SUBMITTALS

A. Product Data: Manufacturer's data sheets on each product to be used.
B. Shop Drawings: Complete details of materials and installation .

PART 2 PRODUCTS

2.01 COUNTERTOPS

A. Countertops, General: Provide products as indicated on Drawings and complying with the following as applicable:
1. Surface Burning Characteristics: Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84.
2. NSF approved for food contact in kitchen areas.
3. Solid Surfacing Sheet and Plastic Resin Castings: Complying with ISFA 2-01 and NEMA LD 3; acrylic or polyester resin, mineral filler, and pigments; homogenous, non-porous and capable of being worked and repaired using standard woodworking tools; no surface coating; color and pattern consistent throughout thickness.
4. Laminate Sheet: NEMA LD 3, Grade HGS, 0.048 inch nominal thickness.

2.02 MATERIALS

A. Plywood for Supporting Substrate: PS 1 Exterior Grade, A-C veneer grade, minimum 5-ply; minimum 3/4 inch thick; join lengths using metal splines.
B. Medium Density Fiberboard for Supporting Substrate: ANSI A208.2.
C. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.
D. Joint Sealant: Mildew-resistant silicone sealant, white.

PART 3 EXECUTION

3.01 INSTALLATION

A. Securely attach countertops to cabinets using concealed fasteners. Make flat surfaces level; shim where required.
B. Seal joint between back/end splashes and vertical surfaces.

END OF SECTION 123600

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PERMIT SET

PROJECT	DATE
25154.000	12-11-2025
DRAWN	CHECKED
MDG	PS/SW

REVISED

SHEET TITLE

ARCHITECTURAL SPECS

SHEET

G25

ORIGINAL SHEET SIZE
24" x 36"

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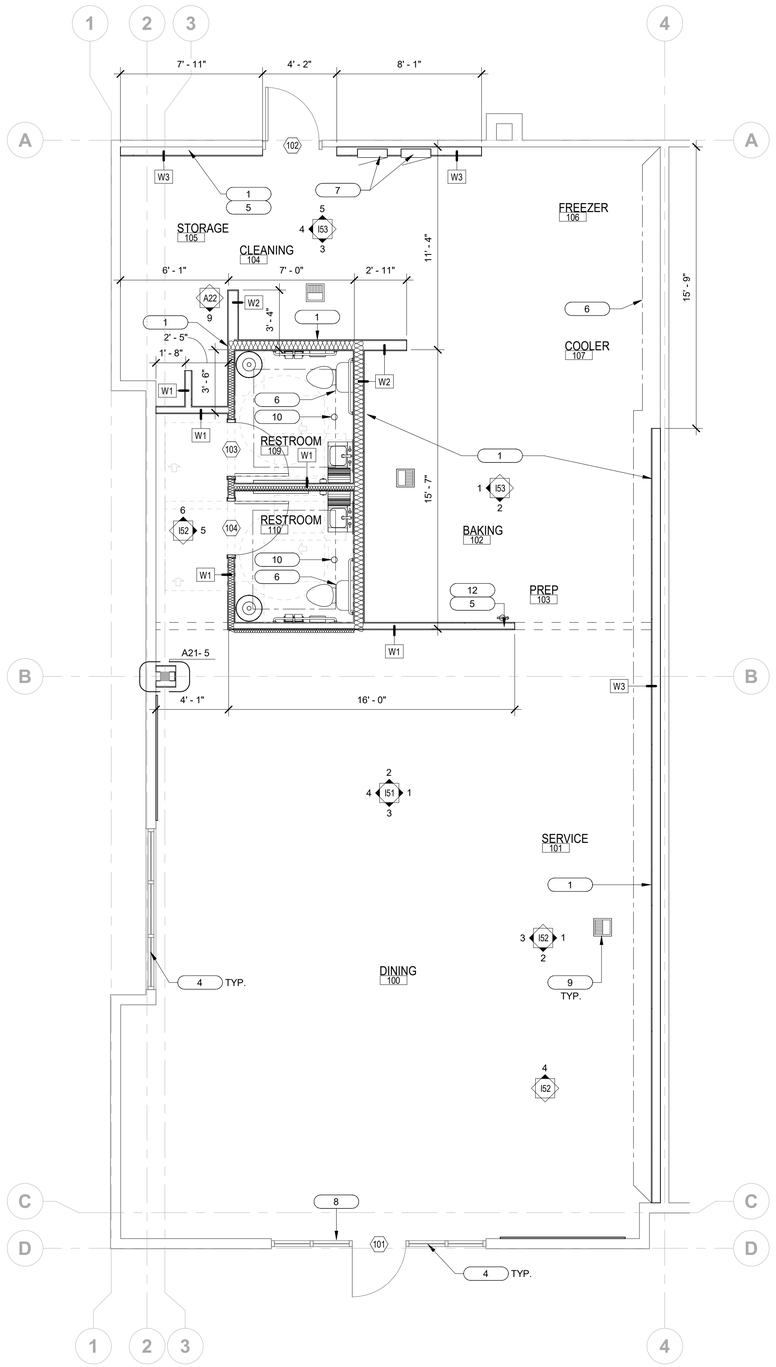
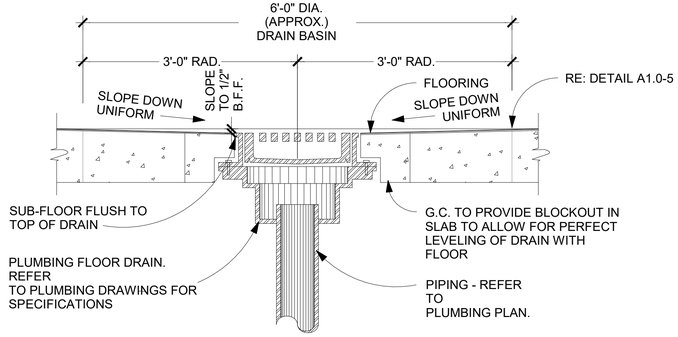


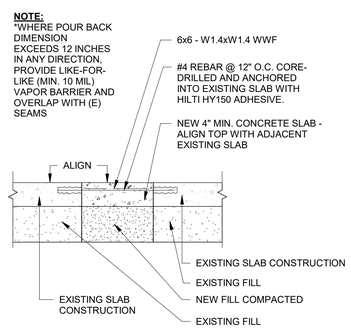
1 FLOOR PLAN
1/4" = 1'-0"



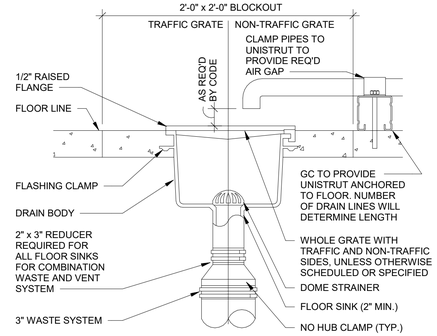
NOTE:
INLET OF DRAIN TO BE 1/2" BELOW FINISH FLOOR ELEVATION. REFER TO FINISH FLOOR PLAN FOR SLOPE TO DRAIN AREA.

NOTE:
NO SLOPE TO DRAIN IN TOILET ROOMS DUE TO TILE SPEC. ADJUST HEIGHT OF DRAIN TO MATCH MATERIAL THICKNESS

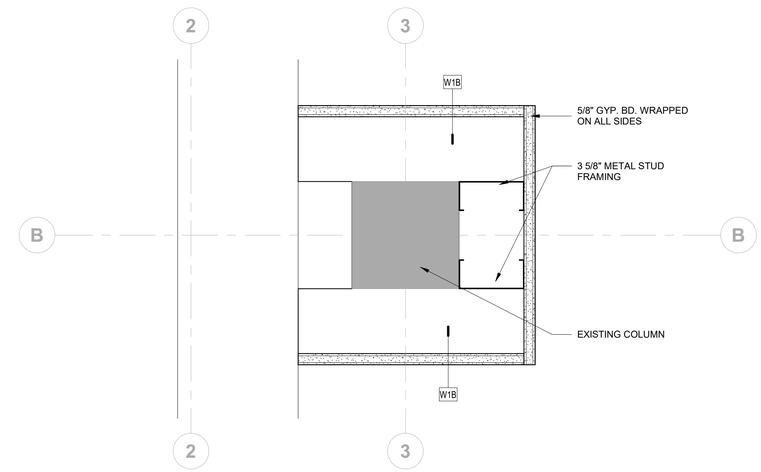
3 FLOOR DRAIN
1" = 1'-0"



2 INTERIOR SLAB DETAIL
1" = 1'-0"



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



5 Floor Plan - Column Callout
3" = 1'-0"

LEGEND:

	SCREENED LINES INDICATE EXISTING ASSEMBLIES/SYSTEMS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
	INDICATES ASSEMBLIES/SYSTEMS TO BE CONSTRUCTED
101	DOOR NUMBER, RE: A82 DOOR SCHEDULE
A	WINDOW TYPE, RE: A82 WINDOW TYPES
W01	WALL TYPE, RE: A22
00 00-01	SHEET NOTE, RE: SHEET NOTES LIST ON CURRENT PAGE
A21	INTERIOR ELEVATIONS SEE DWG. #1 @ SHT. I51, I52

GENERAL NOTES:

A. FINISH FLOOR ELEVATION (100.00) IS FOR REFERENCE ONLY. SEE SEPARATE BOUND CIVIL SET FOR ACTUAL FLOOR ELEVATION.

B. ALL WALL DIMENSIONS ARE TO FACE OF STUD AND/OR NOMINAL FACE OF MASONRY.

C. PROVIDE BLOCKING WHERE REQUIRED FOR FIXTURE INSTALLATION. COORDINATE WITH FIXTURE INSTALLER FOR MOUNTING HEIGHTS.

D. BRACE WALLS THAT DO NOT EXTEND TO STRUCTURE WITH 3 5/8" METAL STUD DIAGONAL BRACE AT 48" O.C., ANCHOR TO BOTTOM FLUTE OF ROOF DECKING AND AT TOP TRACK OF PARTITION WALL. BRACES TO BE CONCEALED WHENEVER POSSIBLE.

E. PROVIDE 5/8" GYP. BD. AT EXISTING EXTERIOR STUD FRAMED WALLS, FINISH.

F. THE HINGE SIDE OF ALL DOOR FRAMES SHALL BE MOUNTED 4" FROM ADJACENT PERPENDICULAR WALL UNLESS NOTED OTHERWISE.

G. RE: I-SERIES FOR FURNITURE PLANS.

H. CONTRACTOR SHALL PROVIDE BLOCKING OR BACKING FOR ALL WALL MOUNTED AND RECESSED ACCESSORIES AND EQUIPMENT. ASSURE THAT ALL REQUIRED BACKING IS INSTALLED IN WALLS PRIOR TO INSTALLING DRYWALL. THIS INCLUDES BACKING FOR WALL-MOUNTED DOORSTOPS.

I. THE HINGE SIDE OF ALL DOOR FRAMES SHALL BE MOUNTED 4" MIN. FROM ADJACENT PERPENDICULAR WALL U.N.O.

J. SINKS AND FITTING SHOWN WITHIN MILLWORK ARE INDICATED ON PLUMBING PLANS.

K. CONTRACTOR SHALL FIELD MEASURE ALL AREAS TO RECEIVE MILLWORK PRIOR TO FABRICATION OF MILLWORK.

L. VERIFY ALL PLUMBING FIXTURES WITH PLUMBING DRAWINGS.

##-## SHEET NOTES:

1. GC TO PROVIDE AND INSTALL BLOCKING AT ALL WALL MOUNTED SHELVING AND EQUIPMENT RE: A23-2
2. NOT USED
3. NOT USED
4. EXISTING STOREFRONT TO REMAIN AND BE PROTECTED
5. (2) 1" DIAMETER CONDUIT LINES FOR POS SYSTEM, SECURITY, TELEPHONE, RUN LINES THRU COUNTER WALL UP TO THE CEILING AND TERMINATE AT OFFICE AS REQUIRED. LINES BEGIN AT POS STATION CABINET AND TERMINATE AT DESK
6. GC TO PROVIDE WATERPROOFING AT ALL DEMISING WALLS, WET AREAS AND IF LEASE SPACE HAS A BASEMENT BELOW RE: A22-6
7. ELECTRICAL PANEL - SEE ELECTRICAL DRAWINGS.
8. PROVIDE INTERNATIONAL SIGN OF ACCESSIBILITY AT MAIN ENTRANCE TO COMPLY WITH ICC A117.1
9. FLOOR SINK RE: PLUMBING A21-4. INFILL SLAB AT TRENCHING AS REQUIRED A21-2
10. FLOOR DRAIN RE: PLUMBING A21-3. INFILL SLAB AT TRENCHING AS REQUIRED A21-2
11. EXISTING COLUMN TO BE PAINTED P-1
12. NEW MIN. TYPE 2A 40BC WALL MOUNT FIRE PROVIDED BY VENDOR AND INSTALLED BY G.C. T.O. 44" A.F.F. MAX/ B.O. 4" A.F.F. MIN. - PROJECTION INTO PATH OF CIRCULATION 4" MAX RE: G21 "TYPICAL ACCESSIBILITY DETAILS" RE: Q11-2

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PERMIT SET

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MDG	PS/JG

REVISED

SHEET TITLE
FLOOR PLAN

SHEET
A21
ORIGINAL SHEET SIZE
24" x 36"

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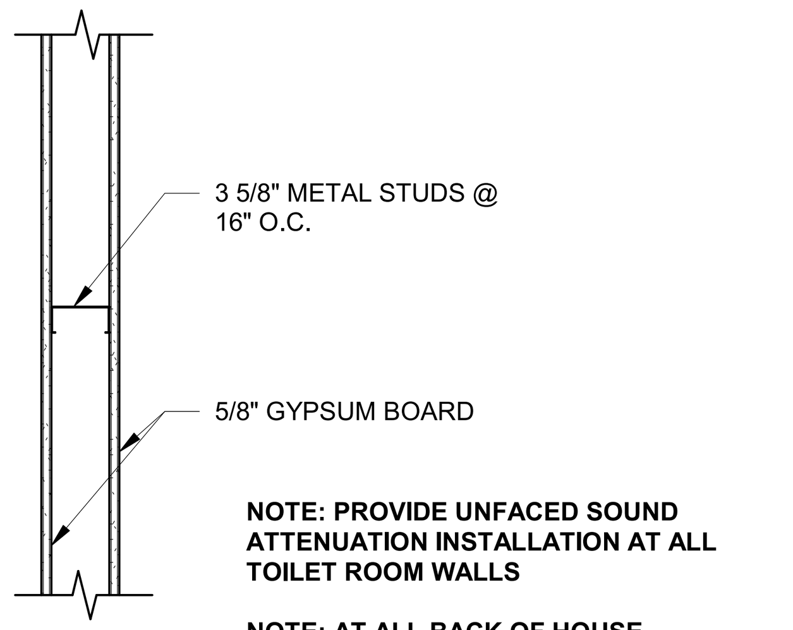
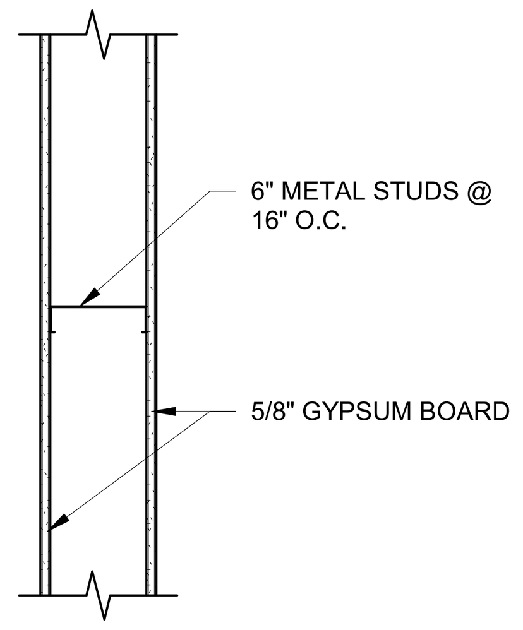
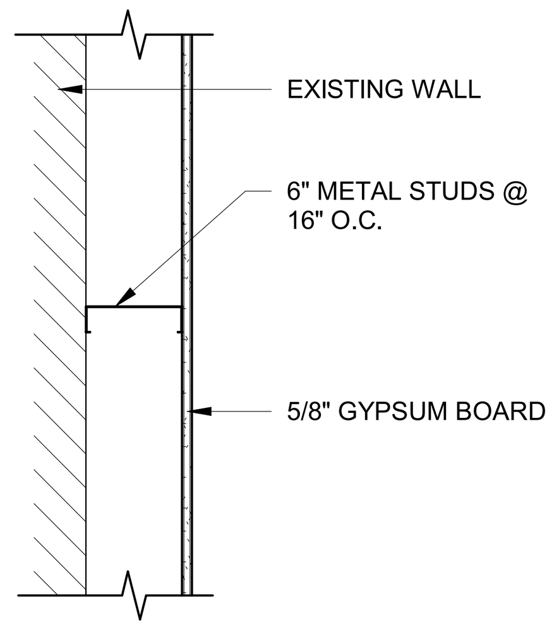
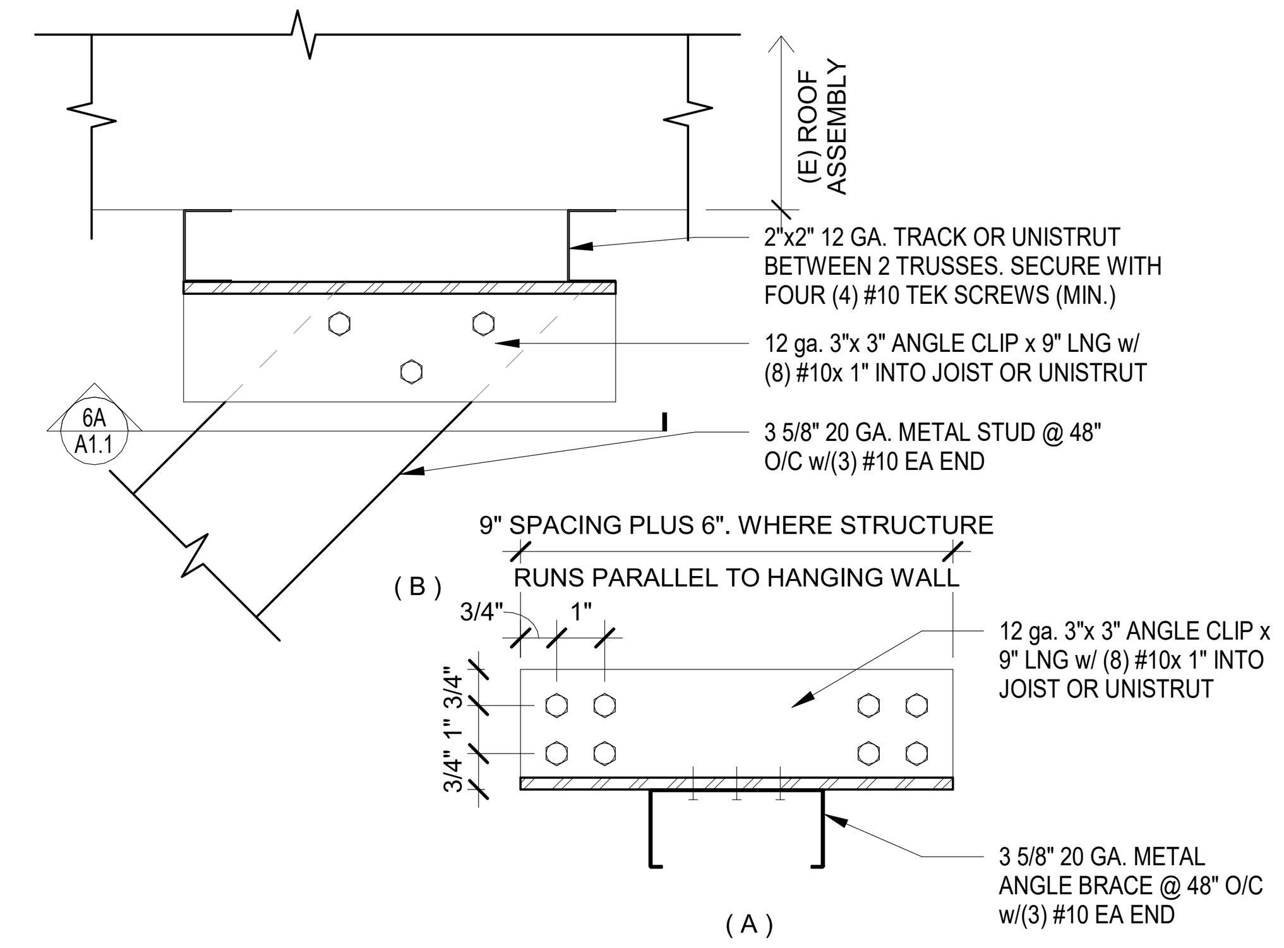
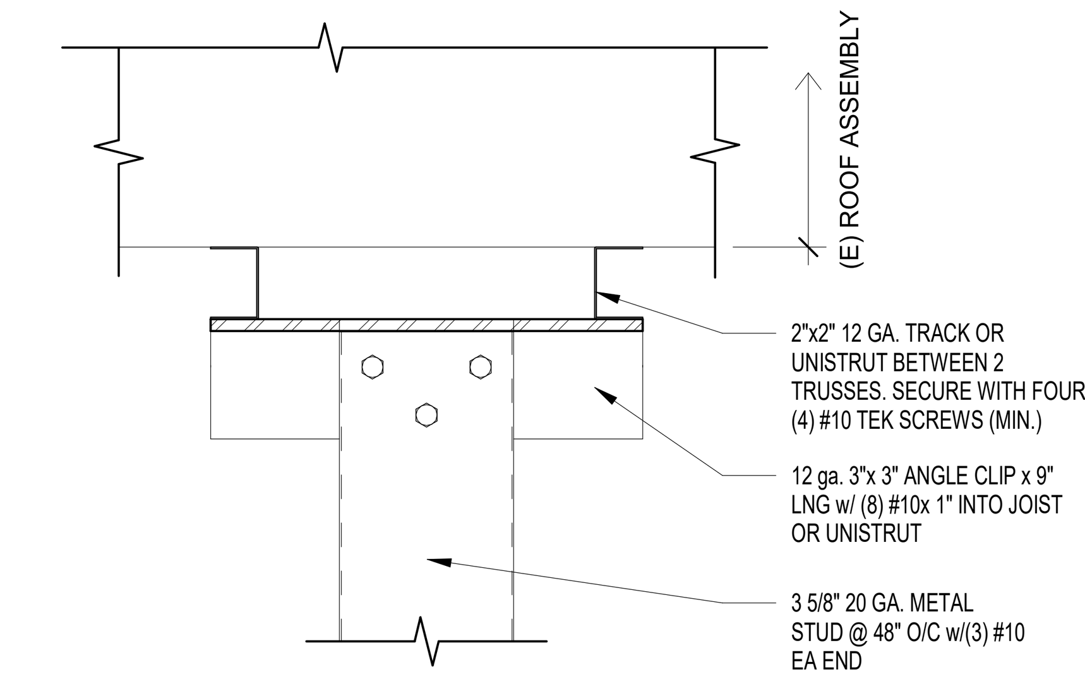
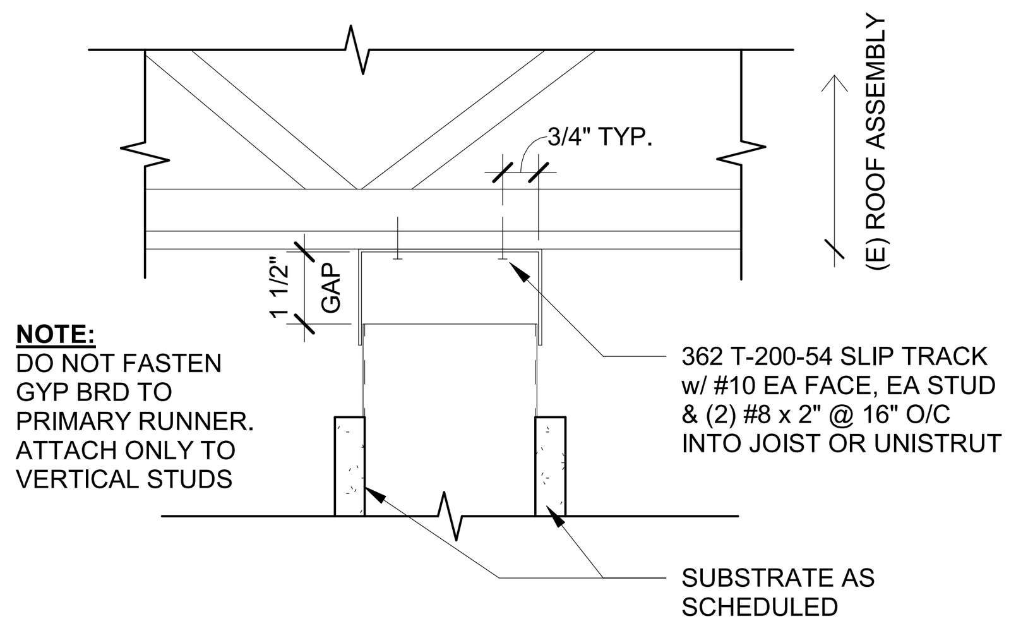
W1 INTERIOR 3 5/8" METAL STUD WALL 5/8" GYPSUM BOARD BOTH SIDES	W2 INTERIOR 6" METAL STUD WALL - 5/8" GYPSUM BOARD BOTH SIDES	W3 INTERIOR 6" METAL STUD FURRING WALL - 5/8" GYPSUM BOARD
 NOTE: PROVIDE UNFACED SOUND ATTENUATION INSTALLATION AT ALL TOILET ROOM WALLS NOTE: AT ALL BACK OF HOUSE PARITTIONS PROVIDE 5/8"x24" HIGH CEMENTITIONS BOARD AT BASE IN LIEU OF GYP BD. SHEATHING	 NOTE: WATER RESISTANT GYPSUM BOARD AT TOILET ROOMS AND AT WET AREAS	 NOTE: WATER RESISTANT GYPSUM BOARD AT TOILET ROOMS AND AND AT WET AREAS
W1 NON RATED WALL WALL TO EXTEND 6" ABOVE FINISHED CEILING. W1A NON RATED WALL SAME AS 'W1', EXCEPT PARTIAL HEIGHT WALL. RE: INTERIOR ELEVATIONS W1B NON RATED WALL SAME AS 'W1', EXCEPT GYPSUM BOARD ON INTERIOR SIDE ONLY	W2 NON RATED WALL WALL TO EXTEND 6" ABOVE FINISHED CEILING. W2A NON RATED WALL SAME AS 'W2', EXCEPT PARTIAL HEIGHT WALL. RE: I51	W3 NON RATED WALL WALL TO EXTEND 6" ABOVE FINISHED CEILING.



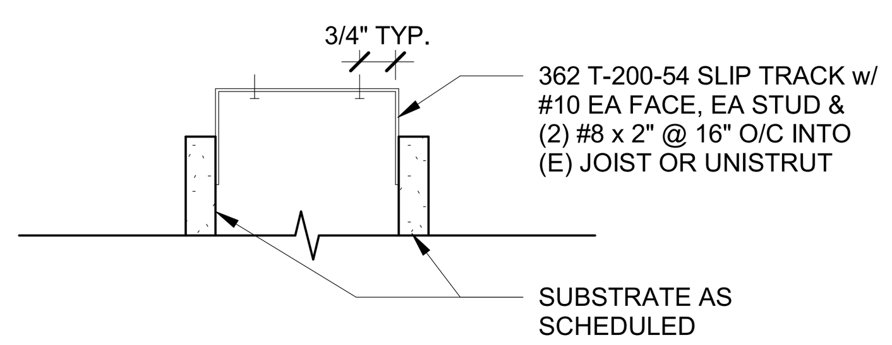
1 TYP. ANGLE BRACE
3" = 1'-0"



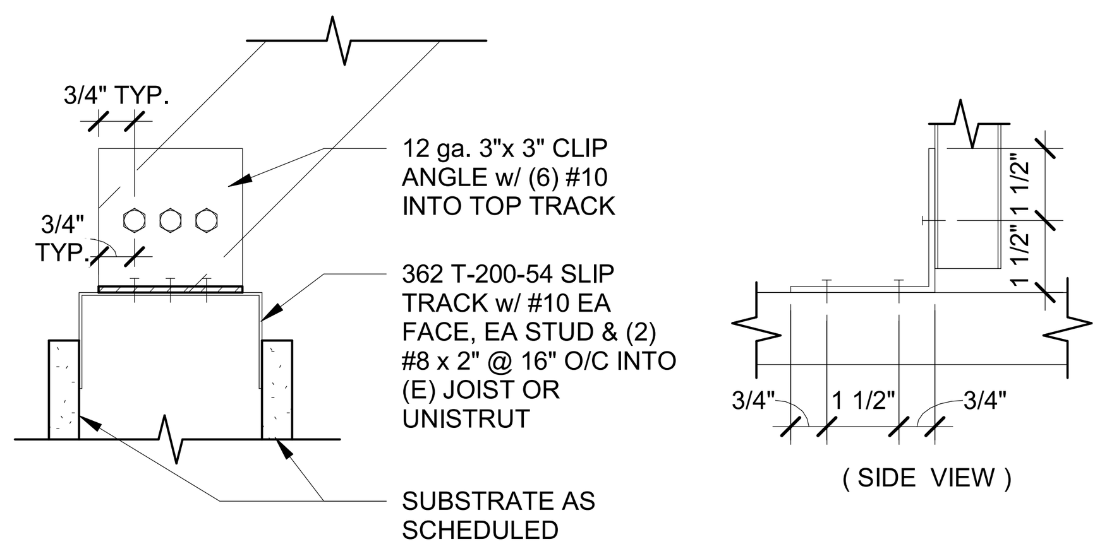
2 TYP. HANGING WALL CONNECTION
3" = 1'-0"



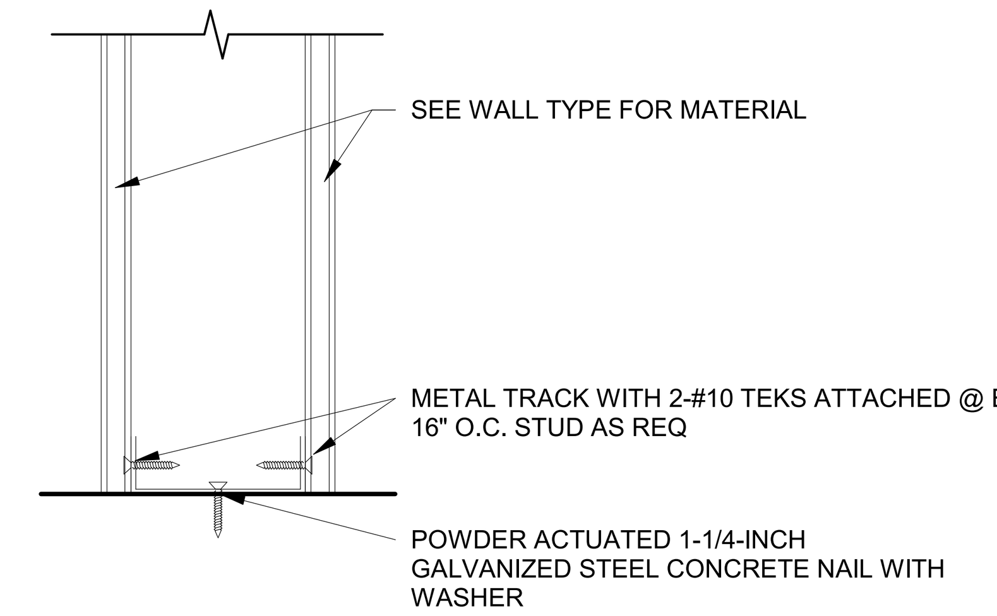
3 TYP. SLIP TRACK
3" = 1'-0"



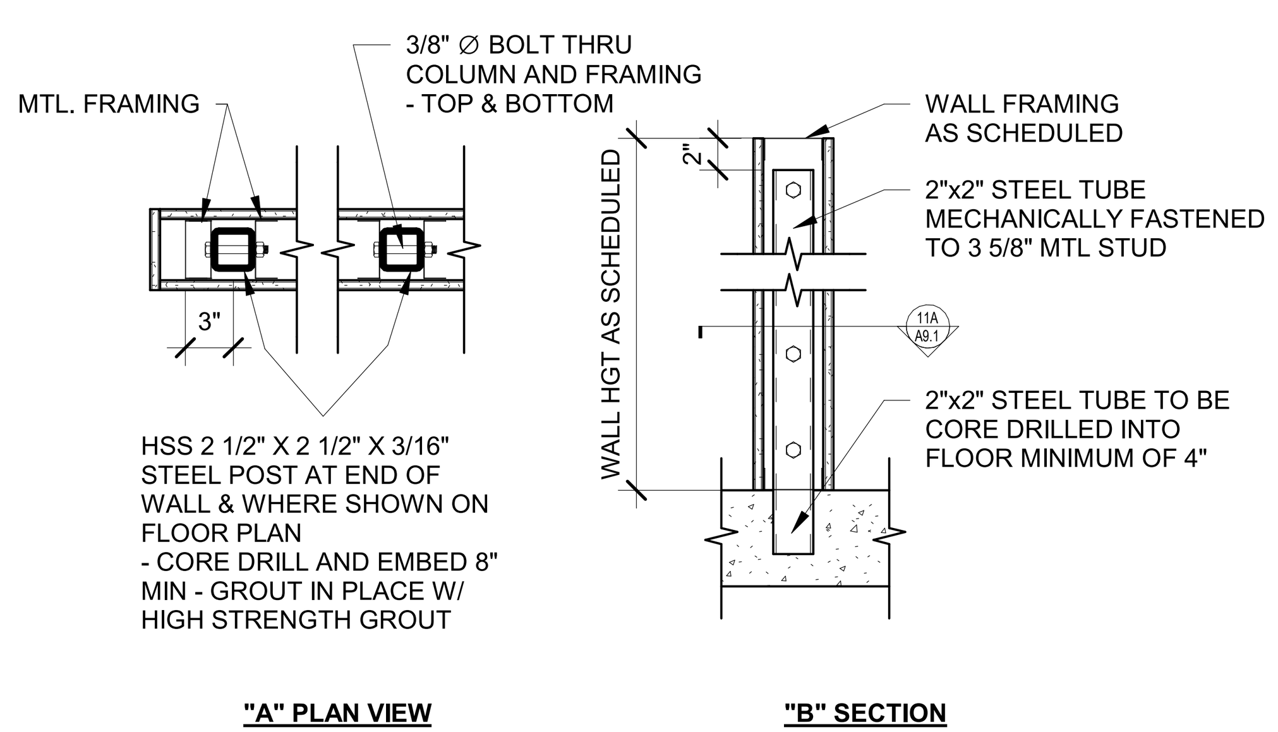
4 TYP. STANDARD TRACK
3" = 1'-0"



5 TYP. TRACK CONNECTION AT ANGLE BRACE
3" = 1'-0"

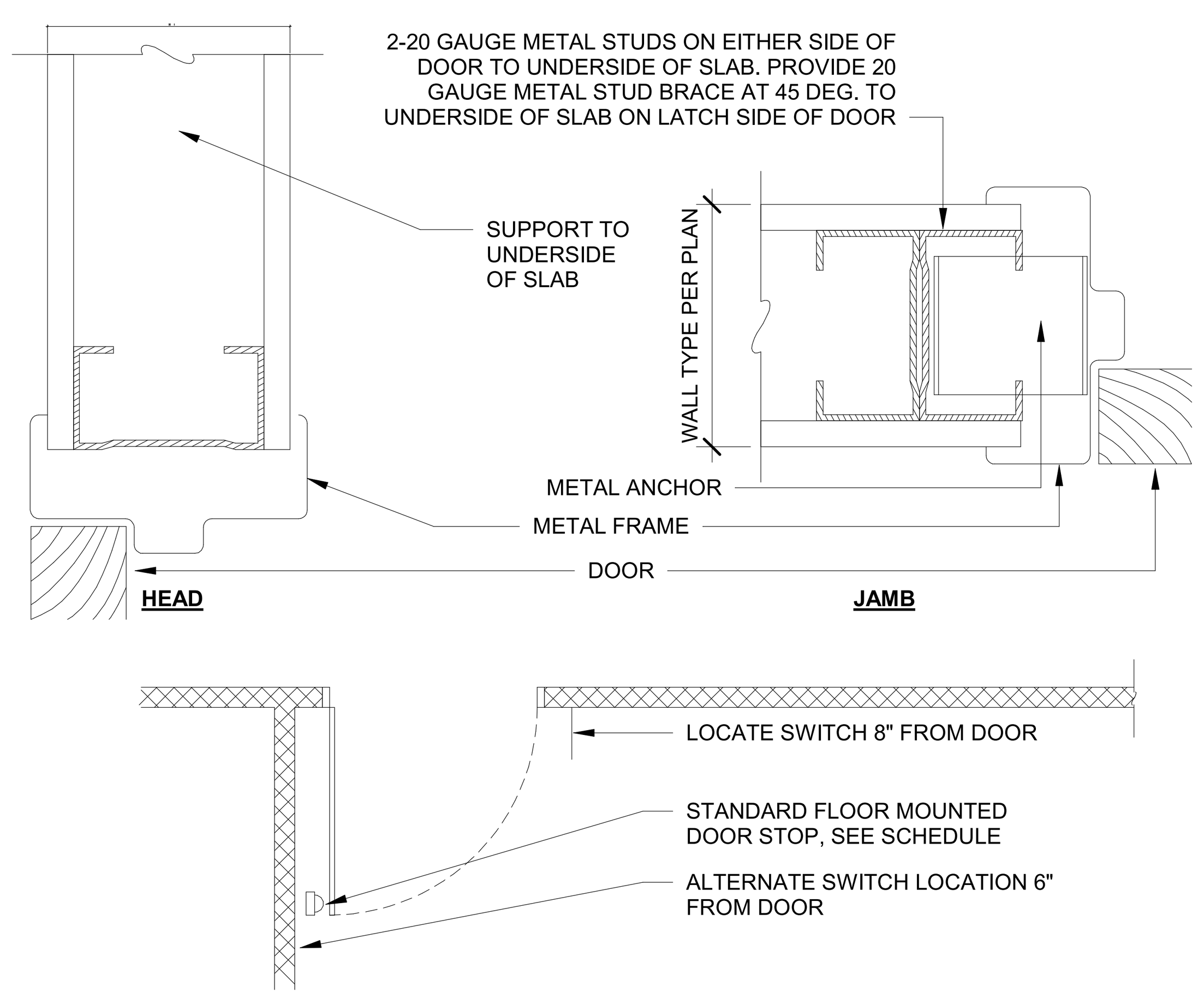


6 FLOOR CONNECTION - TYPICAL
3" = 1'-0"

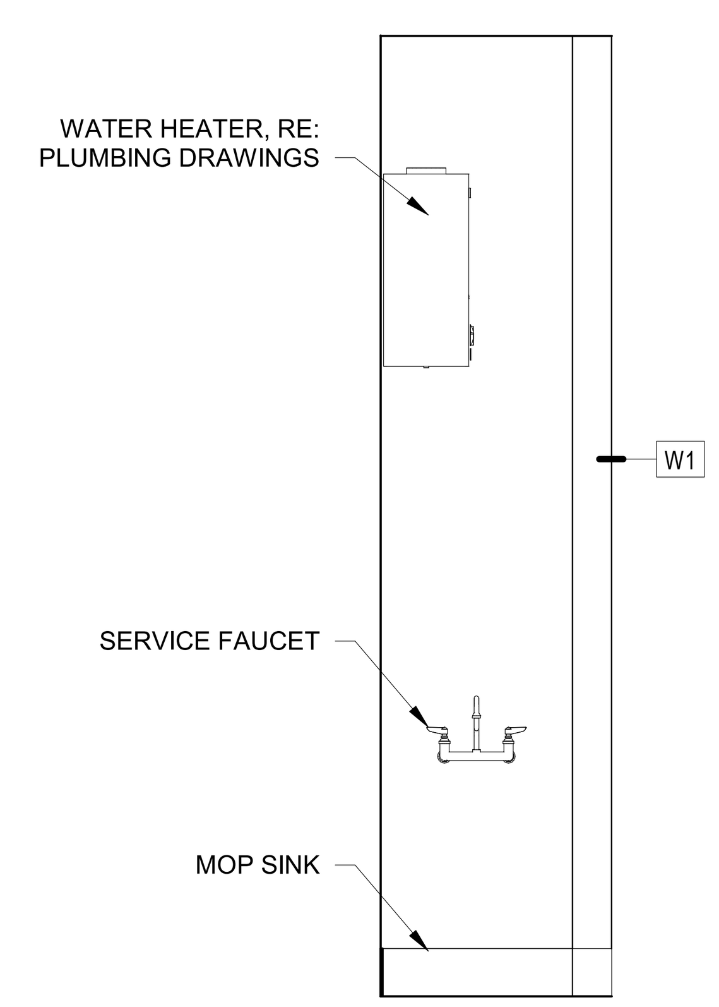


NOTE:
PROVIDE AT EACH WALL END AND AT EACH CHANGE IN DIRECTION

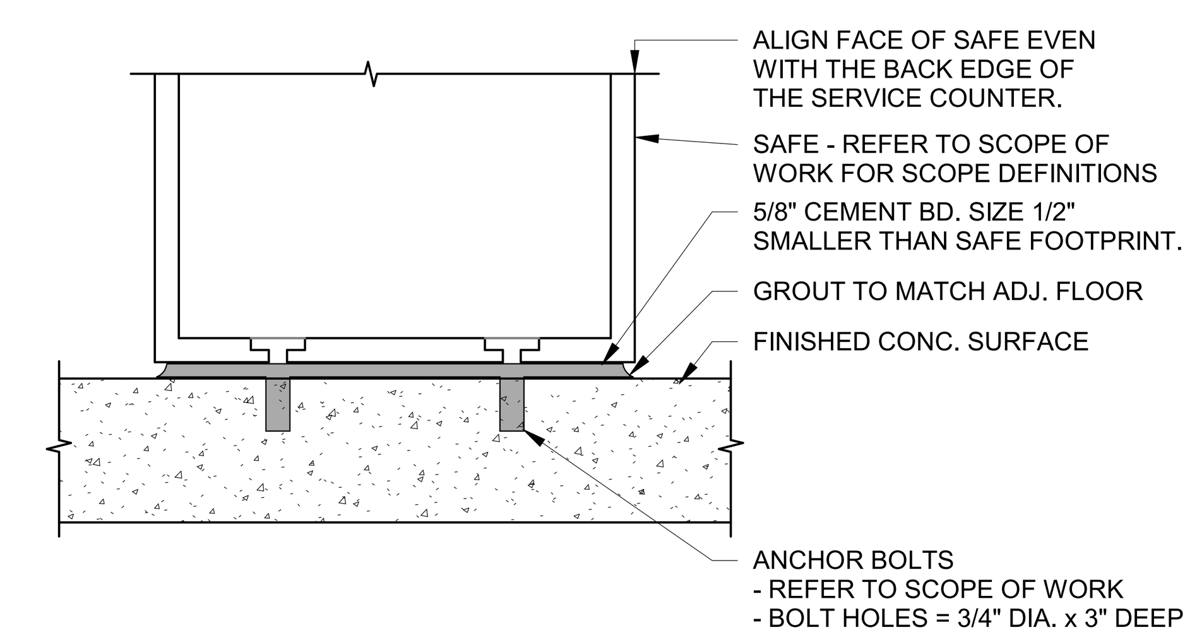
7 CORED LOW WALL SUPPORT
1" = 1'-0"



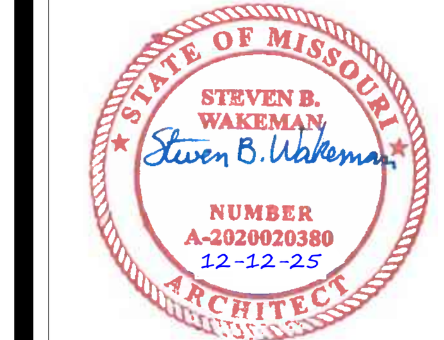
8 TYP. DOOR AND JAMB PLACEMENT
3" = 1'-0"



9 ELEVATION AT MOP SINK
1/2" = 1'-0"



10 SAFE PEDESTAL
1 1/2" = 1'-0"



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PERMIT SET

PROJECT	DATE
25154.000	12-11-2025
DRAWN	CHECKED
MDG	PS/JG

REVISED

SHEET TITLE
WALL TYPES & DETAILS

SHEET
A22

ORIGINAL SHEET SIZE 24" x 36"

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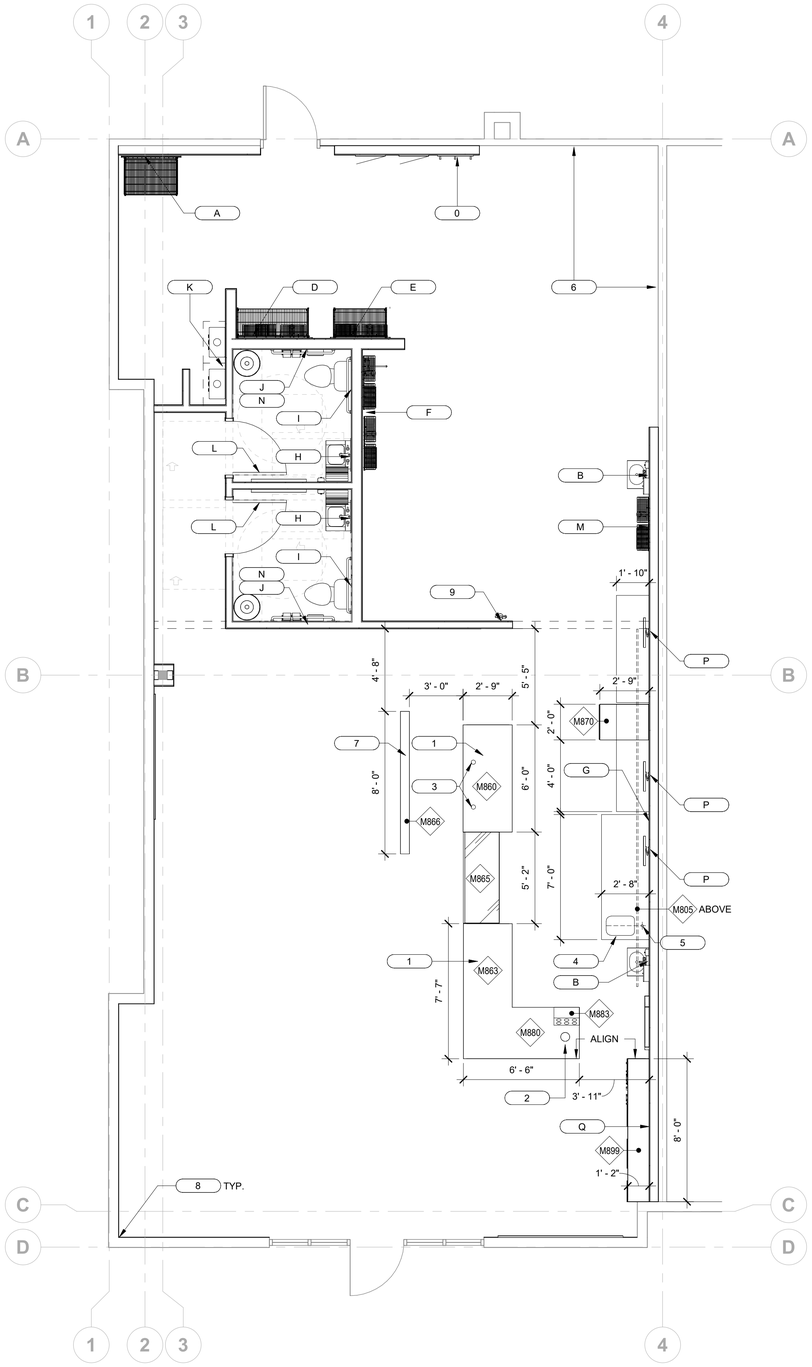


1 MILLWORK & BLOCKING PLAN
1/4" = 1'-0"

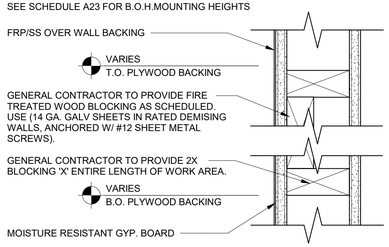
MILLWORK LIST

ITEM	COUNT	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS	PROVIDED BY
MILLWORK						
M805	1	MENU RAIL	RETAIL FIXTURE		20'-0"	MILLWORK
M860	1	POS CABINET	RETAIL FIXTURE		6'-0" W X 33" D X 34" H	MILLWORK
M863	1	FRONT PICK UP COUNTER	RETAIL FIXTURE		7'-7" W X 33" D X 34" H	MILLWORK
M865	1	BAGEL CASE	RETAIL FIXTURE	MODERN IMAGE CASE	61" W 24" D X 51 5/8" H	MILLWORK
M866	1	QUEUE RAIL	RETAIL FIXTURE		8'-0" X 6" X 36" H	MILLWORK
M870	1	SLICER CABINET	RETAIL FIXTURE		24" W X 33 1/16" D X 31 1/16" H	
M880	1	BEVERAGE BAR	RETAIL FIXTURE	CUSTOM	6'-6" W X 33" D	MILLWORK
M883	1	CONDIMENT UNIT - 6 HOLE	RETAIL FIXTURE			MILLWORK
M899	1	PICKUP - ORDER AHEAD WALL FIXTURE	RETAIL FIXTURE	CUSTOM	8'0" W X 13" D X 8'-0" H	MILLWORK

WALL BLOCKING NOTES

SYMBOL	ITEM	WIDTH	A.F.F. HT. TO CENTER
A	2X4 WALL BLOCKING - MANAGER STATION	5'-4 1/2"	3'-9", 6'-3", 6'-8 1/2", 7'-7 1/2"
B	2X4 WALL BLOCKING - HAND SINK (BOH)	2'-6"	2'-10", 3'-4"
C	2X4 WALL BLOCKING - WATER TREATMENT SHELF BLOCKING	2'-0"	4'-2", 5'-0"
D	2X4 WALL BLOCKING - SMART WALL SYSTEM 3 COMP SINK	4'-0"	6'-3"
E	2X4 WALL BLOCKING - SMART WALL SYSTEM 3 COMP SINK	4'-0"	8'-2"
F	2X4 WALL BLOCKING - SMART WALL SYSTEM PREP SINK	13'-9 1/2"	5'-5", 7'-5"
G	2X4 WALL BLOCKING - EQUIPMENT SHELF (SERVICE LINE)	10'-1 1/4"	4'-6", 5'-5"
H	2X6 WALL BLOCKING - RESTROOM SINK	2'-6"	2'-8"
I	2X6 WALL BLOCKING - HORIZONTAL GRAB BAR	4'-0"	2'-10
J	2X6 WALL BLOCKING - HORIZONTAL GRAB BAR	4'-6"	2'-10",
K	2X6 WALL BLOCKING - TANKLESS WATER HEATER	3'-6"	8'-6"
L	2X4 WALL BLOCKING - DIAPER CHANGING STATION	1'-10"	3'-0"
M	2X4 WALL BLOCKING - WALL SHELVING	4'-0"	7'-5"
N	2X6 WALL BLOCKING - VERTICAL GRAB BAR	4'-6"	2'-10"
O	2X4 WALL BLOCKING - COAT HOOK STRIP	2'-0"	5'-0"
P	2X4 WALL BLOCKING - KDS MONITORS	10'-1 1/4"	6'-0"
Q	2X6 WALL BLOCKING - ORDER AHEAD	3'-10 1/2"	8'-0"

MISCELLANEOUS ITEMS (50# MAX. WT.)
TOWEL BARS, SURFACE MOUNTED
MIRRORS, ACCESSORIES
NOTE:
SEE SCHEDULE A23 FOR B.O.H.MOUNTING HEIGHTS



2 BACKING DETAIL
3" = 1'-0"

LEGEND:

- SCREENED LINES INDICATE EXISTING ASSEMBLIES/SYSTEMS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
- INDICATES ASSEMBLIES/SYSTEMS TO BE CONSTRUCTED
- (101) DOOR NUMBER, RE: A82 DOOR SCHEDULE
- (A) WINDOW TYPE, RE: A82 WINDOW TYPES
- W01 WALL TYPE, RE: A22
- (00 00-01) SHEET NOTE, RE: SHEET NOTES LIST ON CURRENT PAGE
- INTERIOR ELEVATIONS (A21) SEE DWG. #1 @ SHT. I51, I52

GENERAL NOTES:

A. ALL MOUNTING HEIGHTS SHALL COMPLY WITH ALL LOCAL AND STATE ACCESSIBILITY AND BUILDING CODE REQUIREMENTS

B. THE GC SHALL INSTALL ALL SOAP AND PAPER TOWEL DISPENSERS, AS FOLLOWS: SOAP DISPENSERS SHALL BE LOCATED DIRECTLY OVER THE SINK AND PAPER TOWEL DISPENSERS SHALL BE LOCATED TO THE RIGHT SIDE OF THE SINK, WITHIN REACHING DISTNACE, BUT NOT DIRECTLY OVER THE SINK

C. GC TO CONFIRM ALL NECESSARY CLEARANCES PER PRODUCT CUT SHEET REQUIREMENTS FOR ALL EQUIPMENT

(## ##-##) SHEET NOTES:

1. SOLID SURFACE COUNTERTOP AND/OR BACKSPLASH
2. CUT-OUT FOR TRASH RINGS
3. 2-1/2" DIA. GROMMET. VERIFY SIZE AND LOCATIONS WITH OWNER
4. CUT-OUT FOR SINK. VERIFY SIZE AND LOCATIONS WITH EQUIPMENT
5. GROMMET FOR FAUCET. VERIFY SIZE AND LOCATION WITH OWNER
6. PROVIDE WALL CLEARANCE PER MANUFACTURER INSTRUCTIONS
7. QUEUE RAIL TO BE CENTERED ON POS CABINET
8. MITER CORNERS FOR CHAIR RAIL, RE: I51 FOR TYP. CHAIR RAIL HEIGHTS
9. NEW MIN. TYPE 2A 40BC WALL MOUNT FIRE PROVIDED BY VENDOR AND INSTALLED BY G.C. T.O. 44" A.F.F. MAX/ B.O. 4" A.F.F. MIN. - PROJECTION INTO PATH OF CIRCULATION 4" MAX RE: G21 "TYPICAL ACCESSIBILITY DETAILS" RE: Q11-2

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NUMBER A-2020020380
12-12-25
ARCHITECT

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PERMIT SET

PROJECT	DATE
25154.000	12-11-2025
DRAWN	CHECKED
MDG	PS/JG

REVISED

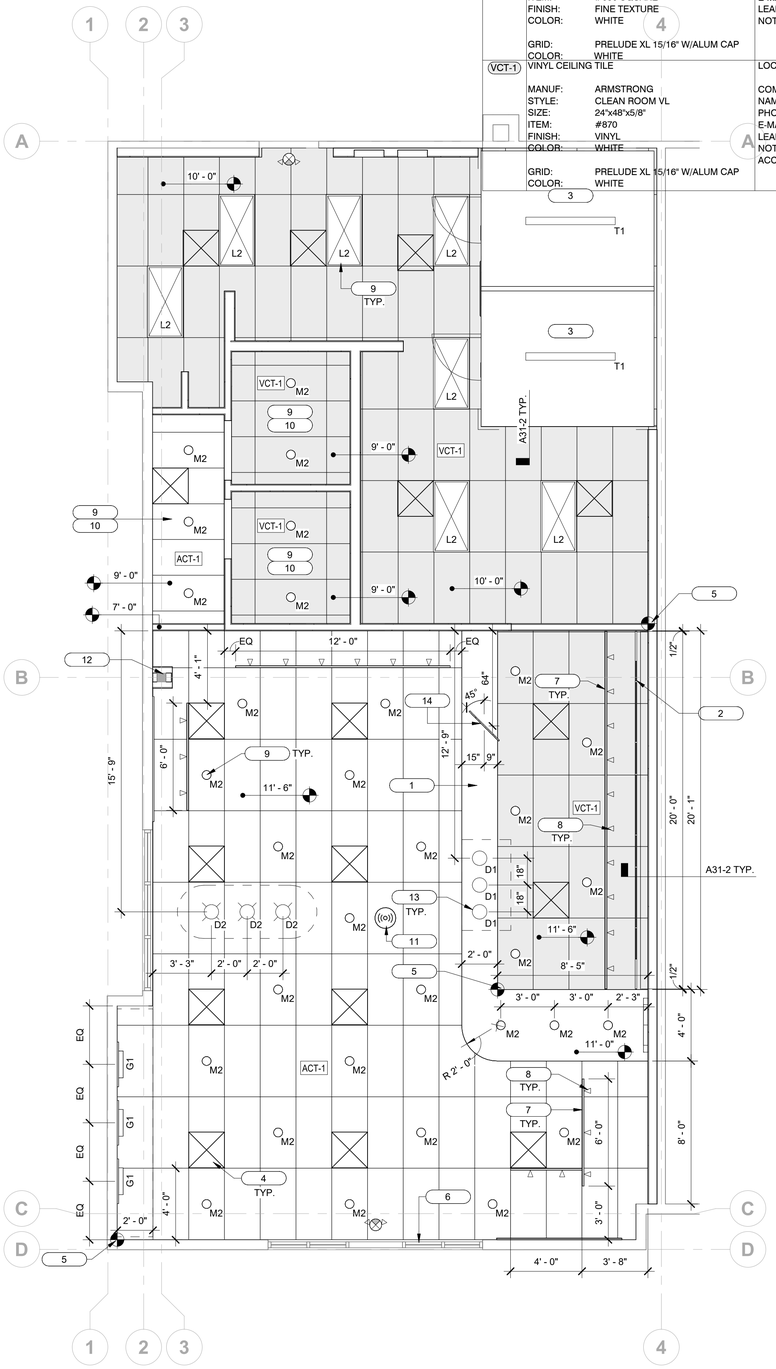
MILLWORK & BLOCKING PLAN

SHEET
A23
ORIGINAL SHEET SIZE
24" x 36"

12/16/2025 12:25:12 PM

CEILING FINISH SCHEDULE

CODE	DESCRIPTION	LOCATIONS, and/or CONTACT/OTHER INFO.
ACT-1	ACOUSTIC CEILING TILE MANUF: USG STYLE: RADAR ACOUSTICAL PANELS SIZE: 24"X48"x(3/4" OR 1") ITEM: #050 SQUARE FINISH: FINE TEXTURE COLOR: WHITE GRID: PRELUDE XL 15/16" W/ALUM CAP COLOR: WHITE	LOCATION: LOBBY COMPANY: ARMSTRONG NAME: BETH SCHELDRUP PHONE: 612-968-0613 E-MAIL: EMSCHELDRUP@ARMSTRONG.COM LEAD TIME: NOTE:
VCT-1	VINYL CEILING TILE MANUF: ARMSTRONG STYLE: CLEAN ROOM VL SIZE: 24"x48"x5/8" ITEM: #870 FINISH: VINYL COLOR: WHITE GRID: PRELUDE XL 15/16" W/ALUM CAP COLOR: WHITE	LOCATION: BOH, SERVICE LINE, & RESTROOM COMPANY: ARMSTRONG NAME: BETH SCHELDRUP PHONE: 612-968-0613 E-MAIL: EMSCHELDRUP@ARMSTRONG.COM LEAD TIME: 4-6 WEEKS (VERIFY) NOTE: NON-PERFORATED WASHABLE. ACCESSORIES: RETENSION CLIPS - PROVIDE ADDITIONAL ONE COMPLETE BOX TO OWNER



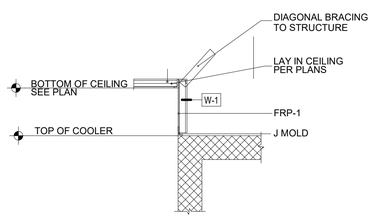
1 REFLECTED CEILING PLAN
1/4" = 1'-0"

LIGHT FIXTURE SCHEDULE

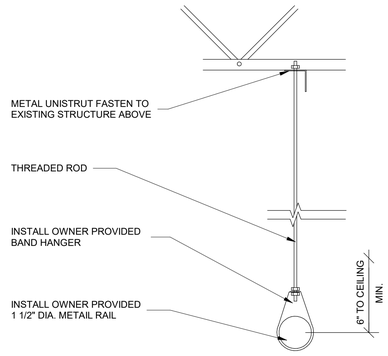
SYMBOL	DESCRIPTION	MANUFACTURER & MODEL	NOTES
L1	2' x 2' RECESSED LED TROFFER	COOPER/METALUX #22GRLED1322X2RT	
L2	2' x 4' RECESSED LED TROFFER	COOPER/METALUX #24GRLED1382X4T	
	TRACK & HEAD SYSTEM W/SHATTERPROOF LED BULBS	F1 WHITE TRACK & HEADS	COUNT: 11 ALIGN TRACK WITH CEILING
M2	6" RECESSED 1-LAMP DOWNLIGHT W/SHATTERPROOF LAMP	LITHONIA LDN6-35/20-L06-AR-LSS-MVOLT-NAGB	2000 LUMENS (WHT)
T1	WIC/F LIGHT LINEAR	G4 LLED FXS 3500K 80-34-3695-105	VAPORT TIGHT LINEAR (FURNISHED W/BOX)
D1	DECORATIVE PENDANT LIGHT	LUMITHREE PT-1082 PENDANT OUTSIDE FINISH: C - CUSTOM (TBD) INSIDE FININSH: C - CUSTOM (TBD)	COUNT: 3
D2	DECORATIVE PENDANT LIGHT	LUMITHREE PT-1077 PENDANT OUTSIDE FINISH: C - CUSTOM (TBD) INSIDE FININSH: C - CUSTOM (TBD)	COUNT: 3
G1	GALLERY LIGHT	KIZCO GALLERIA 23-IN WALL SCONCE WS10423-BK	COUNT: 3
EX1	EMERGENCY LED LIGHT	REF. ELECTRICAL DRAWINGS FOR SPECIFICATIONS	WALL MOUNTED
EX2	EXIT SIGN/EMERGENCY LED LIGHT COMBO UNIT	REF. ELECTRICAL DRAWINGS FOR SPECIFICATIONS	WALL MOUNTED
	EXIT SIGN	REF. ELECTRICAL DRAWINGS FOR SPECIFICATIONS	CEILING MOUNTED
	WIFI ACCESS POINT		PROVIDED BY OWNER

NOTES:
1. GC TO FIELD VERIFY EXISTING CEILING HEIGHTS FOR THE STEM/CORD MOUNTED FIXTURES
2. SEE CORPORATE VENDOR LIST FOR APPROVED VENDORS
3. LUMINAIRES, CONTROLS AND ELECTRICAL DISTRIBUTION EQUIPMENT AS SHOWN ON THE ONE LINE TO BE PURCHASED THROUGH APPROVED VENDOR BY ELECTRICAL CONTRACTOR
4. ALL FIXTURES MAY NOT BE USED
5. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR FIXTURE MOUNTING HEIGHTS
6. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FO RECEIVING, STORAGE, INSTALLATION AND WIRING OF LUMINAIRES, CONTROLS AND ELECTRICAL DISTRIBUTION EQUIPMENT AS SHOWN ON THE ONE LINE
7. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY DAMAGED LUMINAIRES, CONTROLS AND ELECTRICAL DISTRIBUTION EQUIPMENT AS SHOWN ON THE ONE LINE OR MISSING PARTS TO VENDOR WITHIN 48 HOURS OF RECEIPT OF PACKAGE
8. THE ELECTRICAL CONTRACTOR SHALL INCLUDE A 1 YEAR LABOR WARRANTY FOR LUMINAIRES, CONTROLS AND ELECTRICAL DISTRIBUTION EQUIPMENT AS SHOWN ON THE ONE LINE
9. U.N.O. ALL FIXTURES ARE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
10. UPGRADE ALL EXISTING CAN LIGHTS TO LED (GC TO EVALUAGE ONSITE)
11. CENTER ALL CAN LIGHTS IN CEILING TILES UNLESS NOTED OTHERWISE

2 CEILING TILE DETAILS (TYP.)
1/4" = 1'-0"



4 CEILING @ COOLER
1/4" = 1'-0"



3 MENU BOARD PIPE DETAIL
3/8" = 1'-0"

LEGEND:

- SCREENED LINES INDICATE EXISTING ASSEMBLIES/SYSTEMS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
- INDICATES ASSEMBLIES/SYSTEMS TO BE CONSTRUCTED
- (00 00-01) SHEET NOTE, RE: SHEET NOTES LIST ON CURRENT PAGE
- (X - #) MATERIAL DESIGNATION, RE: FINISH SCHEDULE I81
- (X' - X") INDICATES FINISH CEILING OR SOFFIT HEIGHT ABOVE DATUM, FINISH FLOOR
- 2' X 4' SUSPENDED ACOUSTICAL CEILING TILE SYSTEM
- EXIT SIGN

GENERAL NOTES:

A. CONTRACTOR TO VERIFY & COORDINATE DUCT LAYOUT WITH CURB AND ROOF PENETRATION LOCATIONS, REFER ALSO TO REFRIGERATION DRAWINGS FOR REFRIGERATION PIPING REQUIREMENTS AND COORDINATION.

B. SEE STRUCTURAL FRAMING PLAN FOR ROOF DECK HEIGHTS TO ESTABLISH ROOF SLOPES AND ROOF MEMBER LOCATIONS.

C. MAINTAIN ALL ROOF PENETRATIONS 3'-0" OR GREATER FROM FLOW LINES

D. PREFABRICATED CURBS (FOR ROOF TOP MECHANICAL & REFRIGERATION EQUIPMENT SHALL BE INSTALLED BY GENERAL CONTRACTOR AND SET LEVEL.

E. ALL DIMENSIONS ARE FOR GENERAL ARRANGEMENT & LOCATION ONLY. ACTUAL REQUIREMENTS & DIMENSIONS SHOULD BE VERIFIED AND COORDINATED WITH EQUIPMENT, SHOP DRAWING SUBMITTALS AND STRUCTURAL FRAMING.

F. ALL PLANES OF ROOF SHALL SLOPE MIN. 1/4 "/L.F. TO DRAINS OR GUTTER, CW/ STRUCTURAL DRAWINGS

G. NO PLUMBING VENTS OR EXHAUST UNITS WITHIN 10'-0" OF INTAKE OR 10'-0" OF EXTERIOR WALL.

H. FABRICATE SHEET METAL CURB CAPS TO ALLOW FOR THICKNESS OF ROOFING PLY EXTENDING UP CURB FACE, RE: ___

I. SCUPPER SILLS AND OVERFLOW DRAIN RIMS SHALL BE 2" ABOVE PRIMARY ROOF DRAIN RIMS. COORDINATE AND VERIFY INSTALLATIONS.

J. COORDINATE ROOF CURBS WITH HVAC EQUIPMENT.

K. PROVIDE 1/2" WIDE GAP IN 2 x PARAPET NAILER AT ROOF CONTROL JOINT.

L. ALL ROOF OPENINGS GREATER THAN 12"X12" SHALL BE FRAMED WITH STEEL ANGLES, RE: STRUCTURAL DRAWINGS.

M GC TO FIELD VERIFY EXISTING CEILING HEIGHTS FOR THE STEM/CORD MOUNTED FIXTURES

N. SEE CORPORATE VENDOR LIST FOR APPROVED VENDORS

O. LUMINAIRES, CONTROLS AND ELECTRICAL DISTRIBUTION EQUIPMENT AS SHOWN ON THE ONE LINE TO BE PURCHASED THROUGH APPROVED VENDOR BY ELECTRICAL CONTRACTOR

P. ALL FIXTURES MAY NOT BE USED

Q. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR FIXTURE MOUNTING HEIGHTS

R. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FO RECEIVING, STORAGE, INSTALLATION AND WIRING OF LUMINAIRES, CONTROLS AND ELECTRICAL DISTRIBUTION EQUIPMENT AS SHOWN ON THE LINE

S. THE ELECTRICAL CONTRACTOR SHALL REPORT ANY DAMAGED LUMINAIRES, CONTROLS AND ELECTRICAL DISTRIBUTION EQUIPMENT AS SHOWN ON THE ONE LINE OR MISSING PARTS TO VENDOR WITHIN 48 HOURS OF RECEIPT OF PACKAGE

T. THE ELECTRICAL CONTRACTOR SHALL INCLUDE A 1 YEAR LABOR WARRANTY FOR LUMINAIRES, CONTROLS AND ELECTRICAL DISTRIBUTION EQUIPMENT AS SHOWN ON THE ONE LINE

U. U.N.O. ALL FIXTURES ARE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

V. UPGRADE ALL EXISTING CAN LIGHTS TO LED (GC TO EVALUATE ONSITE)

(## ##-##) SHEET NOTES:

1. PAINT FRONT SOFFIT P-3
2. MENU BOARD RE: A31 - 3
3. NO CEILING ABOVE WALK IN UNITS
4. RETURNS/DIFFUSERS RE: MECHANICAL DRAWINGS
5. CEILING GRID ORIGIN POINT
6. EBB LOGO WINDOW ROUNDEL RE: A90
7. ALIGN TRACK WITH CEILING GRID LINE
8. DIRECT TRACK FIXTURES AT WALL ELEMENTS
9. CAN LIGHT FIXTURE TO BE CENTERED IN CEILING TILE, TYP.
10. CEILING TILE GRID TO BE CENTERED IN SPACE
11. OUTLET WIFI EXTENDER, RE: ELECTRICAL DRAWINGS
12. (E) COLUMN
13. LIGHT FIXTURE TO BE CENTERED ACROSS BAGEL CASE
14. MI-6 ORDER SIGN CENTERED AT INTERSECTION OF COOLER AND POS

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REVISED

SHEET TITLE
CEILING PLAN

SHEET
A31
ORIGINAL SHEET SIZE 24" x 36"

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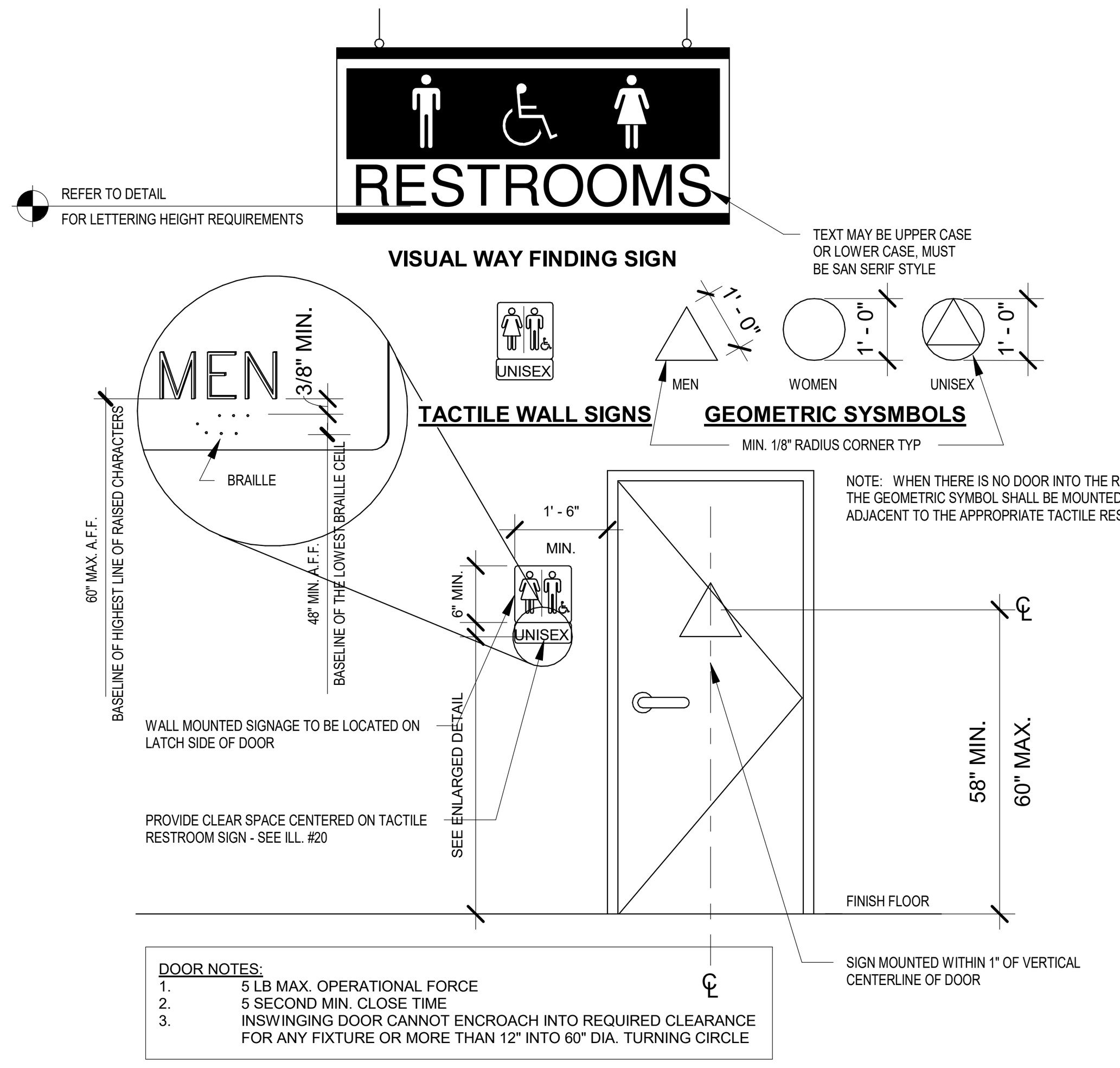
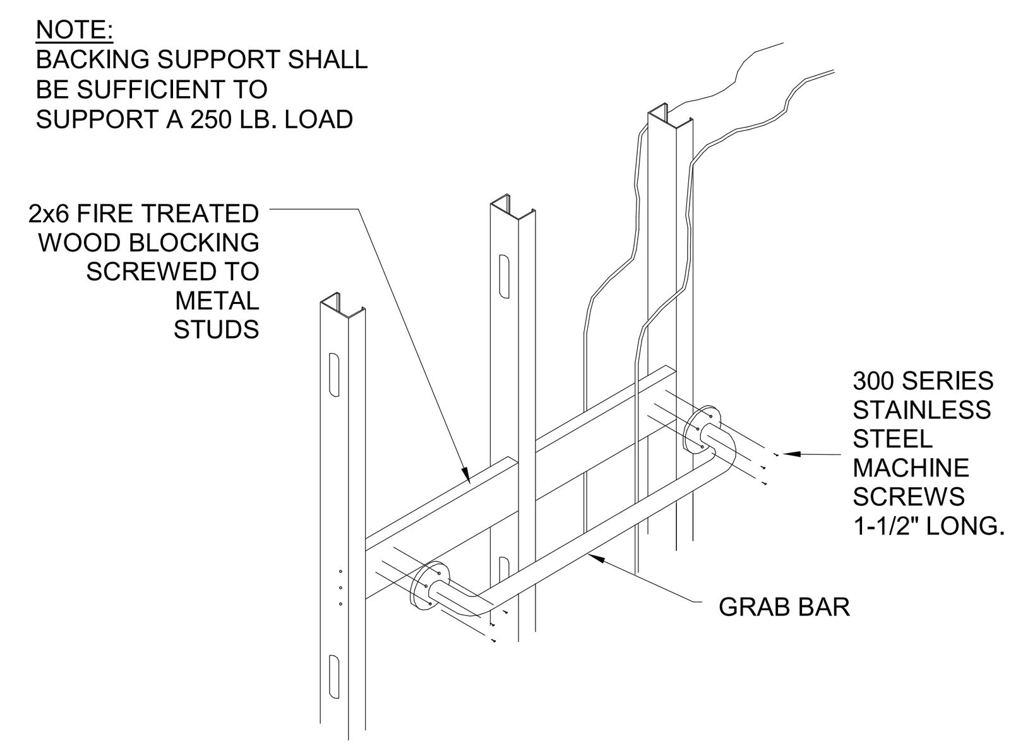


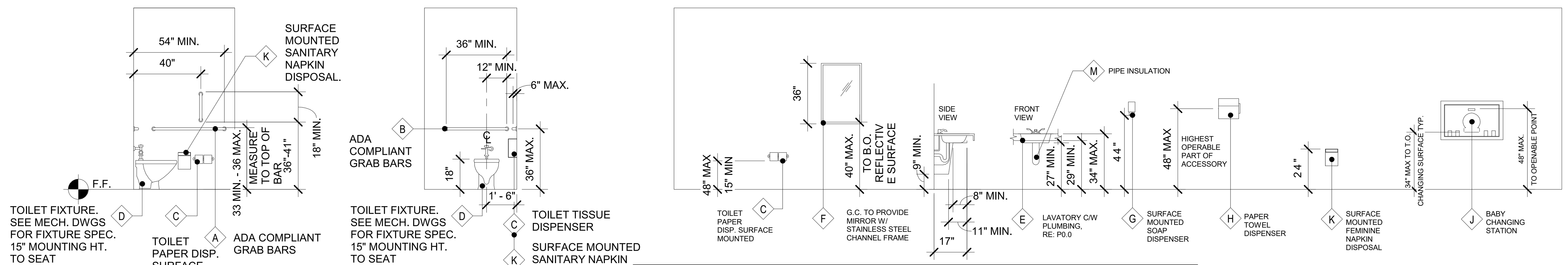
11 RESTROOM SIGNAGE DETAIL
3/8" = 1'-0"



10 GRAB BAR DETAIL
1/2" = 1'-0"

PLUMBING FIXTURE SCHEDULE							
ID	DESCRIPTION	MANUFACTURER	MODEL	FINISH	REMARKS	FURNISHED	INSTALLED
A	42" HORIZONTAL & 18" VERTICAL GRAB BAR	BOBRICK	STAINLESS STEEL GRAB BARS WITH SNAP FLANGE B-5806 X 42/18	SMOOTH SATIN	(1) 2x6'S 4'-0" LONG CENTER MOUNTED @ 33" A.F.F. TO CENTER OF SUPPORT GRAB BAR, SEE A42-6	GC	GC
B	36" HORIZONTAL GRAB BAR	BOBRICK	STAINLESS STEEL GRAB BARS WITH SNAP FLANGE B-5806 X 36	SMOOTH SATIN	2x6' WOOD BLOCKING, SEE A42-6	GC	GC
C	TOILET TISSUE DISPENSER	BOBRICK	B-686	CHROME-PLATED PLASTIC SPINDLE	PROVIDE 2x6 BLOCKING AS NEEDED (HANDICAPPED STALL TISSUE DISPENSER)	GC	GC
D	WATER CLOSET	KOHLER	HIGHLINE K-3658	WHITE INCLUDE ELONGATED SEAT		GC	GC
E	LAVATORIES	KOHLER	GREENWICH K-2032 VITREOUS CHINA/ K8998 FAUCET	GREENWICH K-2032 VITREOUS CHINA	(1) 2x6 WALL TO WALL 3'-7" MOUNTED @ 30" A.F.F. TO CENTER OF SUPPORT (LAVATORIES) INCLUDE AMERICAN STANDARD SELECTRONIC FAUCET 6053.105 WITH 4" DECK PLATE. INCLUDE PIPE WRAP	GC	GC
F	MIRROR	BOBRICK	24"x36" MIRROR WITH FRAME WITH SAFETY BACKING			GC	GC
G	SOAP DISPENSER	BY OWNER	DEB SBS PROLINE WITH AREO GREEN #33714			VENDOR	GC
H	PAPER TOWEL DISPENSER	SAN JAMAR	SURFACE MOUNTED PAPER TOWEL DISPENSER T950-TBK			VENDOR	GC
J	BABY CHANGING STATION	KOALA BEAR KARE	#KB101-SS	GREY WITH STAINLESS STEEL VENEER		OWNER	GC
K	FEMININE NAPKIN DISPOSAL	BOBRICK	#B-270	304 STAINLESS	SURFACE MOUNTED CONTURA SERIES	GC	GC
L	COAT HOOK	BOBRICK	SURFACE MOUNTED HAT AND COAT HOOK B-76727		LOCATE ON RESTROOM DOOR, PARITITON DOOR OR ACCESSIBLE STALL DOOR @ 4'-0" A.F.F.	GC	GC
M	UNDER LAV. INSULATION	TRUEBRO	LAV GUARD 2 - 103 E-Z			GC	GC
N	TRASH CAN	RUBBERMAID	2147584	STAINLESS STEEL		GC	GC

NOTE:
1. ALL FIXTURES & ACCESSORIES MUST MEET ALL NATIONAL AND LOCAL CODES AND ADA REQUIREMENTS. PROVIDE SOLID FIRE TREATED BLOCKING AT ALL WALL MOUNTED FIXTURES FOR SECURE ANCHORING, VERIFY LOCATION WITH MANUFACTURERS SPECIFICATIONS. CLEAR SILICONE CAULK ALL FIXTURES TO PARTITION.
2. WATER CLOSET AND URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING MECHANISM CONTROLS, SHALL BE OPERABLE WITH ONE HAND, SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR.
3. THE FORCE REQUIRED TO ACTIVATE WATER CLOSET AND URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING CONTROLS, SHALL BE NO GREATER THAN 5 LBF.



NOTE: PROVIDE SOLID BLOCKING OR OTHER SUITABLE BACKING AT LOCATIONS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: EDGES WHERE FINISH MATERIALS CHANGE, GRAB BARS, TOILET PARTITIONS, DOOR STOPS, SHELF BRACKETS, HANDRAILS, MIRRORS AND ALL MOUNTED EQUIPMENT, INCLUDING EQUIPMENT FURNISHED BY OWNER. SEE SPECIFICATIONS FOR LOADING RESISTANCE REQUIRED. EXTEND BACKING 6" BEYOND OUTLINE OF EQUIPMENT. PROVIDE WATER RESISTANT GYP. BD. AT ALL WET LOCATIONS.

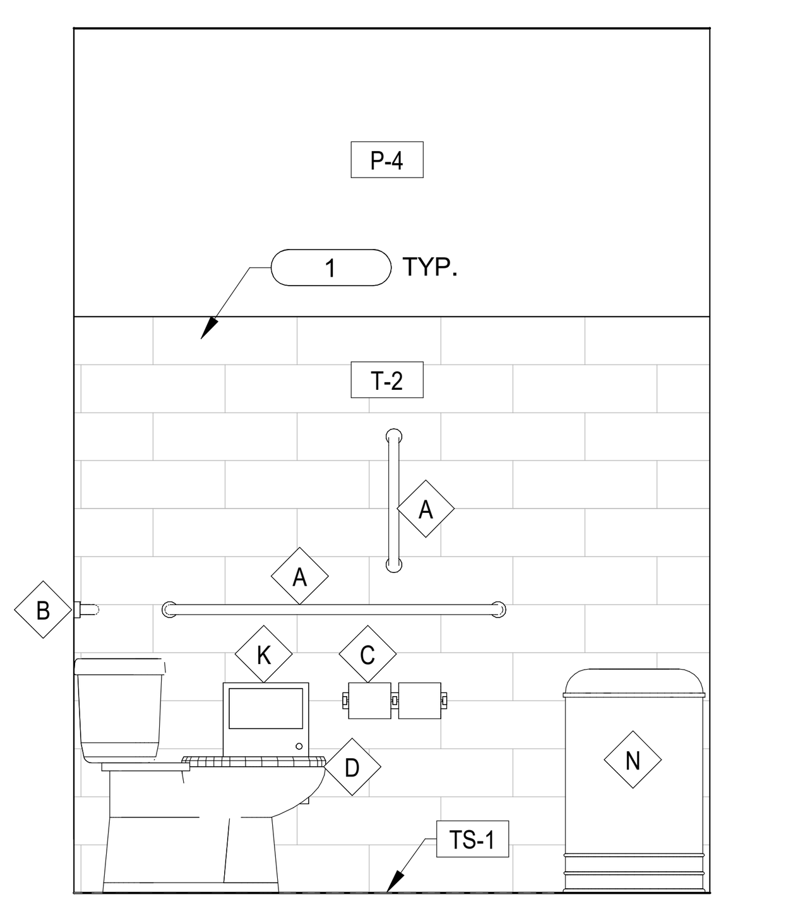
12 2021 - MOUNTING HEIGHTS
1/4" = 1'-0"

SHEET NOTES:

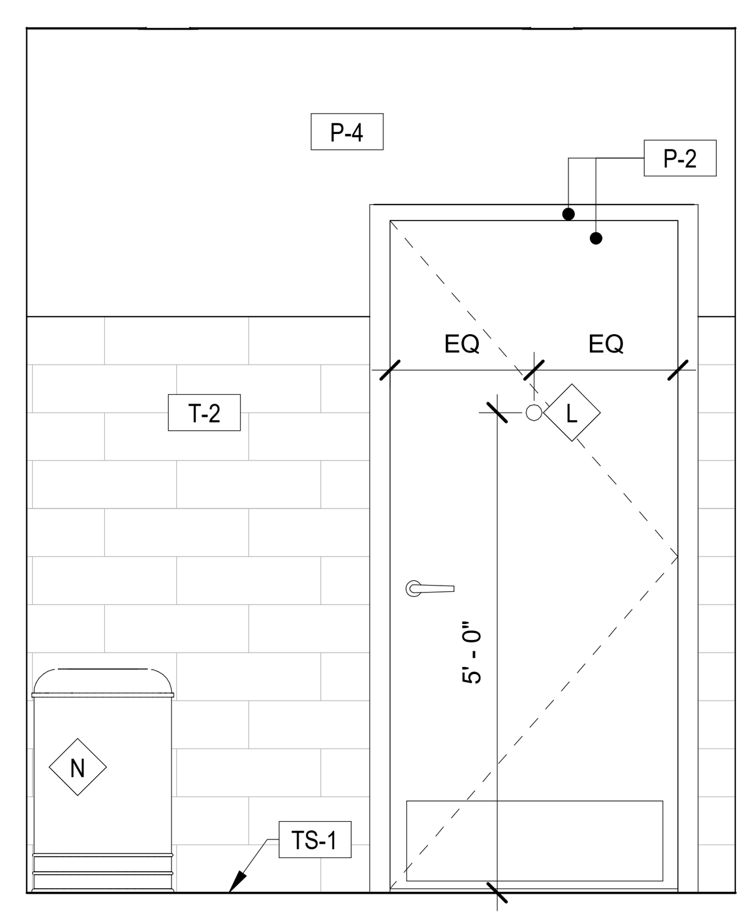
1. FULL TILE @ TOP, TYP.
2. ADD BLOCKING BEHIND MIRROR AT PAINTED WALL TO MATCH THICKNESS OF TILE

NOTES:

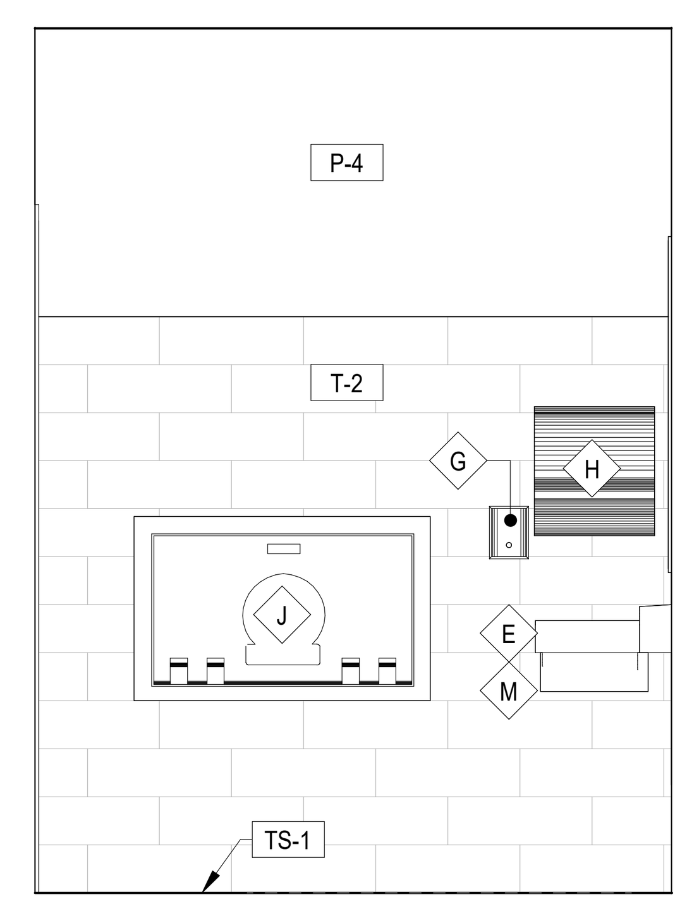
A. SEE SHEET A21 FOR ADDITIONAL DIMENSIONS.
B. USE MOISTURE RESISTANT GYPSUM BOARD AT WALLS BEHIND PLUMBING FIXTURES.
C. PROVIDE BATT INSULATION IN WALLS WHERE SCHEDULED ON SHEET A22.
D. THE OPERATING PART OF ALL ACCESSORIES SHALL BE INSTALLED AT 48" MAXIMUM TO THE CENTERLINE OF THE OPERATING PART FROM FINISHED FLOOR SURFACE.
E. TOILET PARTITIONS FOR THE ACCESSIBLE TOILET SHALL BE PROVIDED WITH A LATCH THAT DOES NOT REQUIRE GRASP OF TWISTING, AND A U-SHAPE OR LOOP IMMEDIATELY BELOW THE LATCH ON THE INSIDE AND OUTSIDE OF THE PARTITION DOOR. (IF APPLICABLE)



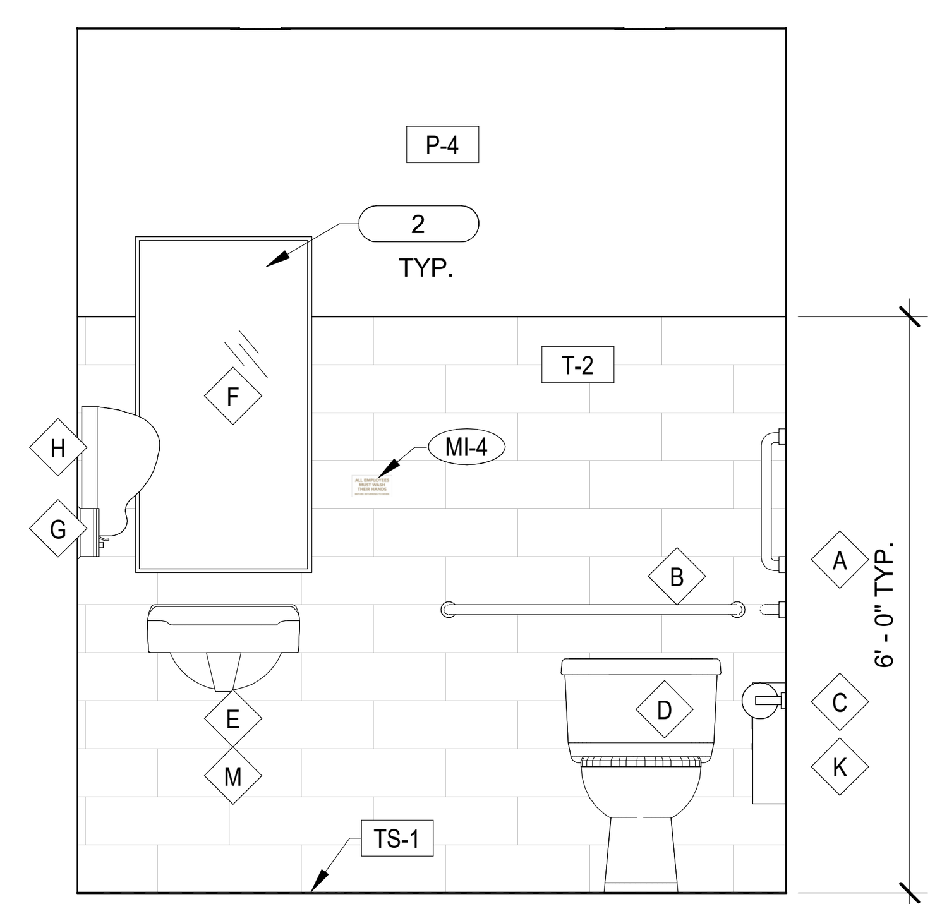
2 INTERIOR ELEVATION
1/2" = 1'-0"



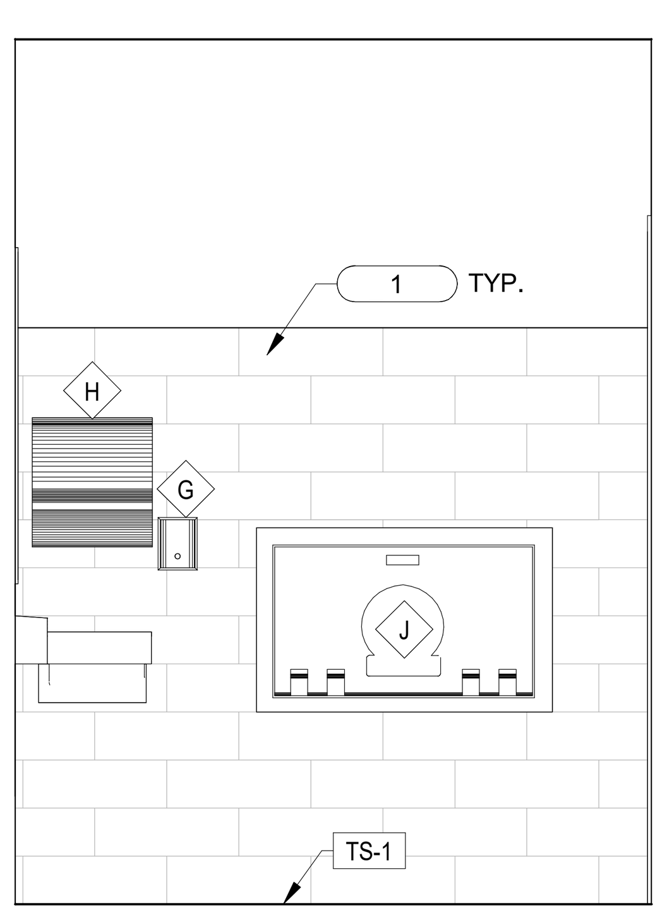
3 INTERIOR ELEVATION
1/2" = 1'-0"



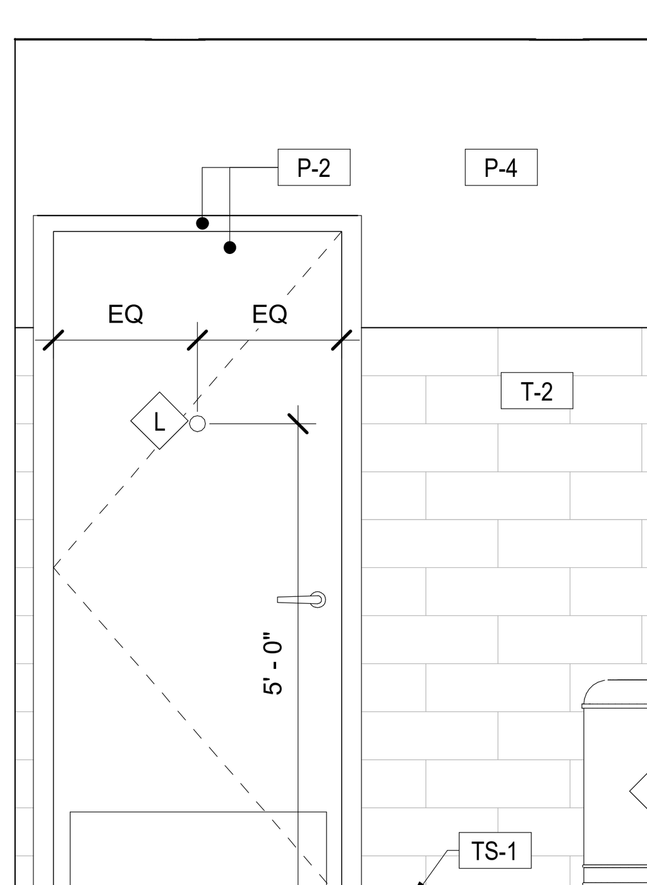
4 INTERIOR ELEVATION
1/2" = 1'-0"



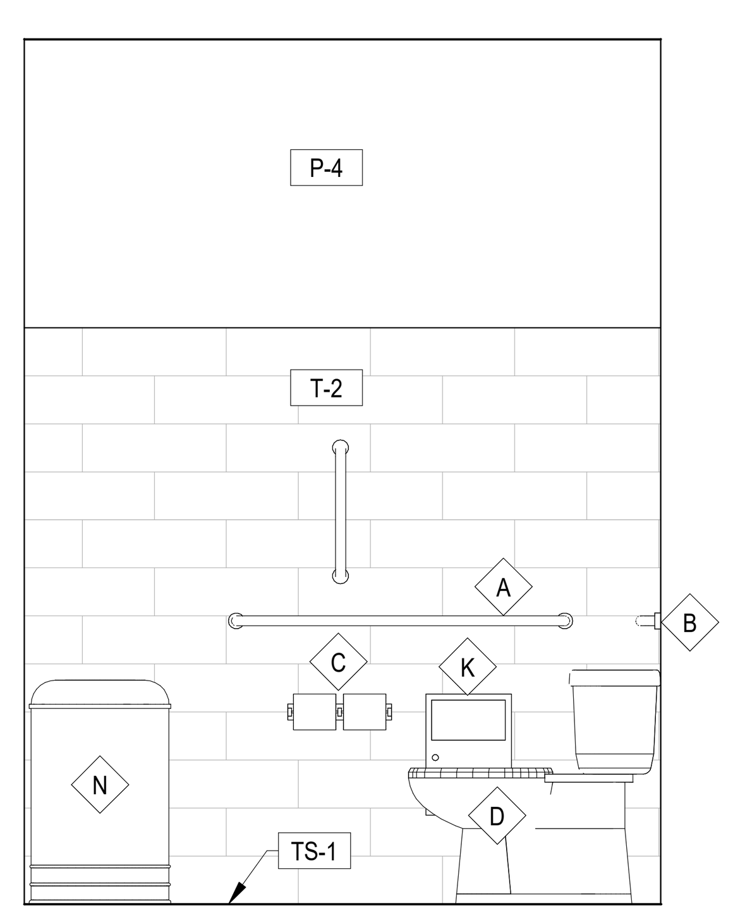
5 INTERIOR ELEVATION
1/2" = 1'-0"



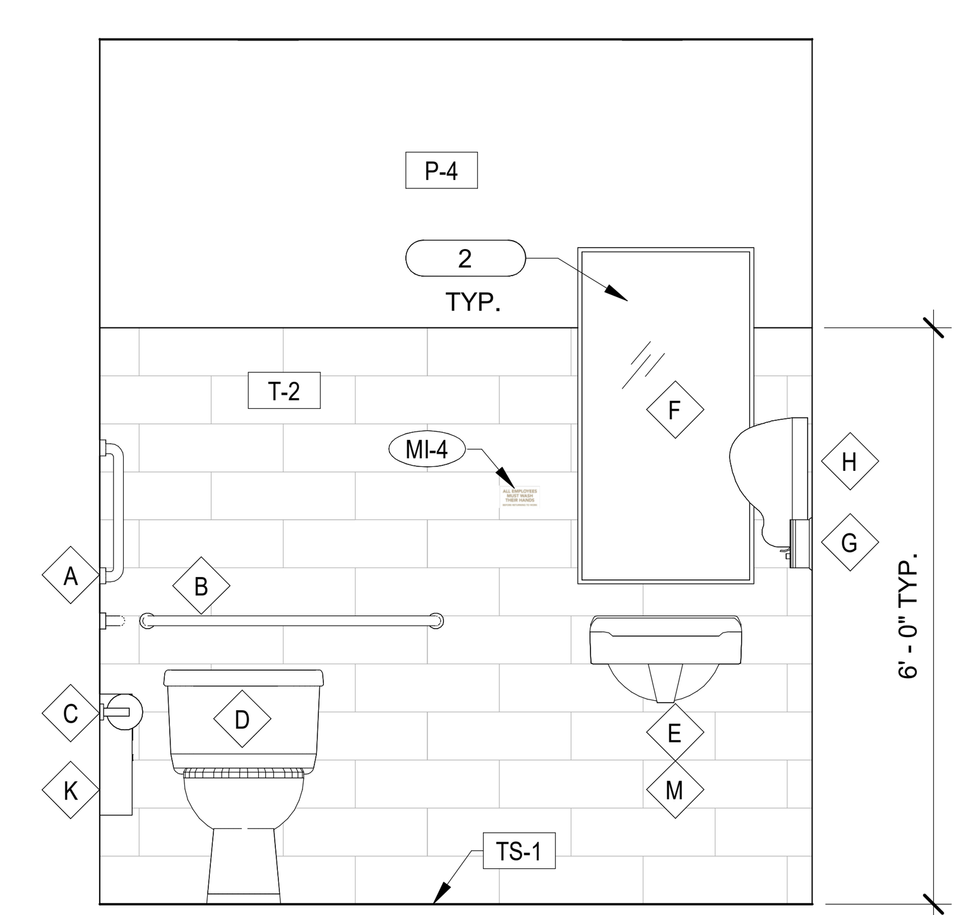
6 INTERIOR ELEVATION
1/2" = 1'-0"



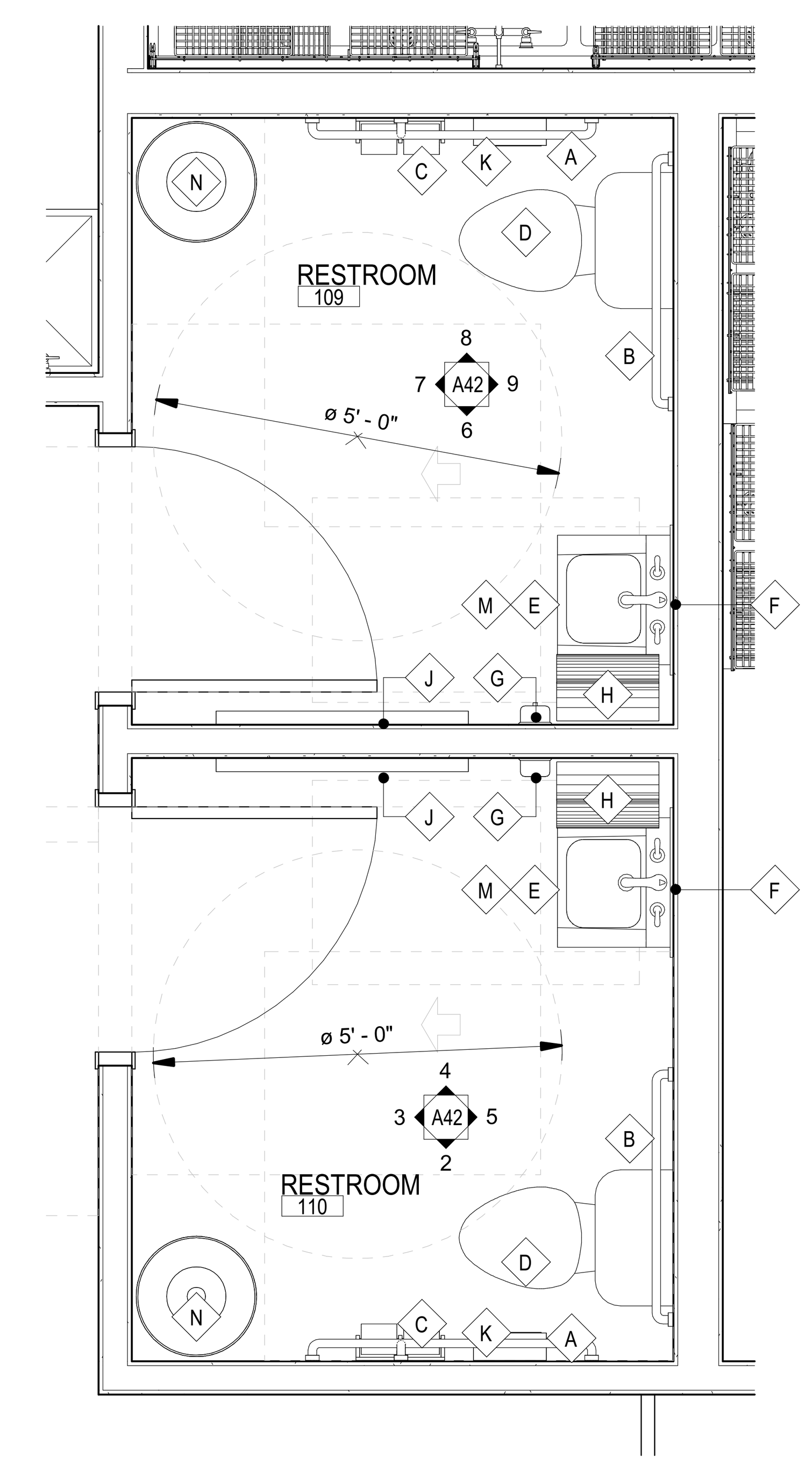
7 INTERIOR ELEVATION
1/2" = 1'-0"



8 INTERIOR ELEVATION
1/2" = 1'-0"



9 INTERIOR ELEVATION
1/2" = 1'-0"



1 ENLARGED FLOOR PLAN
1/2" = 1'-0"

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PERMIT SET

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REVISED

SHEET TITLE
ENLARGED PLANS

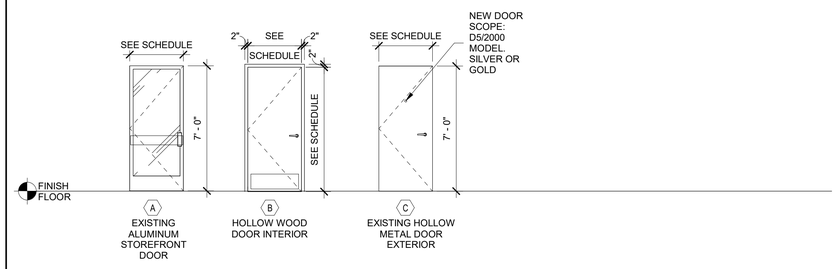
SHEET
A42
ORIGINAL SHEET SIZE 24" x 36"

12/16/2025 12:25:26 PM

1 DOOR SCHEDULE
RE: A21/1

DOOR NO.	DOOR TYPE	DOOR			FRAME TYPE	HARDWARE SET	COMMENTS	ROOM
		PANEL WIDTH	HEIGHT	THICKNESS				
101	E.T.R.	3' - 0"	7' - 0"		ALUM	E.T.R.	GC TO SUPPLEMENT (E) HARDWARE AS REQUIRED TO MEET DIVISION 087100 DOOR HARDWARE SPECIFICATIONS	FRONT ENTRANCE
102	E.T.R.	3' - 0"	7' - 0"	1 3/4"	HM	E.T.R.	GC TO SUPPLEMENT (E) HARDWARE AS REQUIRED TO MEET DIVISION 087100 DOOR HARDWARE SPECIFICATIONS	BACK ENTRANCE
103	B	3' - 0"	7' - 0"	1 3/4"	HM	1	PAINT P-2	RESTROOM
104	B	3' - 0"	7' - 0"	1 3/4"	HM	1	PAINT P-2	RESTROOM

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



HG DOOR HARDWARE GROUP
RE: SPECIFICATION SECTION 087110 "DOOR HARDWARE"

HARDWARE GROUP NO. 01: RESTROOM DOORS PRIVACY SET

3 PR.	HINGE	STANLEY - FBB179 - 4 1/2" X 4 1/2"
1 EA.	LATCH	SCHLAGE - AL-40S SAT 626 - (PRIVACY HDW.)
1 EA.	CLOSER	DORMA - 7414 AR
3 EA.	SILENCERS	IVES - KP10X34-32D
2 EA.	KICK PLATE	12" x 34" KICK PLATE, 16 GA. SS
1 EA.	SIGN	UNISEX - SIGN: RESTROOM
1 EA.	STOP	FLOOR MOUNTED - ZORO - G2170901 (OR SIMILAR)

HARDWARE SET NO. 2 (ENTRANCE DOOR):

1 EA.	SIGN ABOVE DOOR TO READ: "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED"
1 EA.	CORE CYLINDER AT EXTERIOR AND THUMB TURN AT INTERIOR
3 EA.	BUTT HINGES (MANUF. SUPPLIED)
2 EA.	CONCEALED OVERHEAD CLOSER (BARRIER-FREE ACCESS) - SINGLE ACTING (MANUF. SUPPLIED)
1 EA.	ADAMS-RITE MS LOCK, 1850S (MANUF.SUPPLIED) EXIT DEVICE
1 EA.	PULL BAR RM-2540-24622 (OR EQUAL)
1 EA.	THRESHOLD 1/2"x4" ALUM. THRESHOLD FULL WIDTH (MANUF. SUPPLIED)
2 EA.	SWEEP - RECESSED TYPE (MANUF. SUPPLIED)
1 EA.	WEATHERSTRIPPING (MANUF. SUPPLIED)
1 EA.	LOCKING INDICATOR WHICH CLEARLY DISTINGUISHES WHEN DOOR IS LOCKED/UNLOCKED (MANUF. SUPPLIED)

HARDWARE SET NO. 3 (BACK OF HOUSE DOOR):

3 EA.	BUTT HINGES FBB 179 4.5x4.5 - US26D
1 EA.	SCHLAGE B681-626 DEADBOLT - KEYED ON EXTERIOR
1 EA.	PUSH PLATE SCHLAGE 8200-3X12-626, MOUNTED BELOW DEADBOLT
1 EA.	PULL PLATE SCHLAGE 8302-3.5X15-626, MOUNTED BELOW DEADBOLT
1 EA.	CLOSER LCN 4020 WITH INTEGRATED WALL STOP

DOOR GENERAL NOTES:

1. VERIFY ROUGH OPENING IN FIELD.
2. INSTALL DOORS AND FRAMES PER MANUFACTURER'S REQUIREMENTS.
3. ALL EXITS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
4. FOR HARDWARE SETS, RE: SPECIFICATIONS, DIVISION 087100 DOOR HARDWARE.

MATERIAL LEGEND:

MATERIAL

GL	GLASS
MFR.	MANUFACTURER
WD	WOOD
ALUM	ALUMINUM
GALV	GALVANIZED METAL
SS	STAINLESS STEEL
STL	STEEL
HM	HOLLOW METAL

STATE OF MISSOURI
STEVEN B. WAKEMAN
Steven B. Wakeman
NUMBER A-2020020380
12-12-25
ARCHITECT

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LEE'S SUMMIT, MO 64086

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PERMIT SET

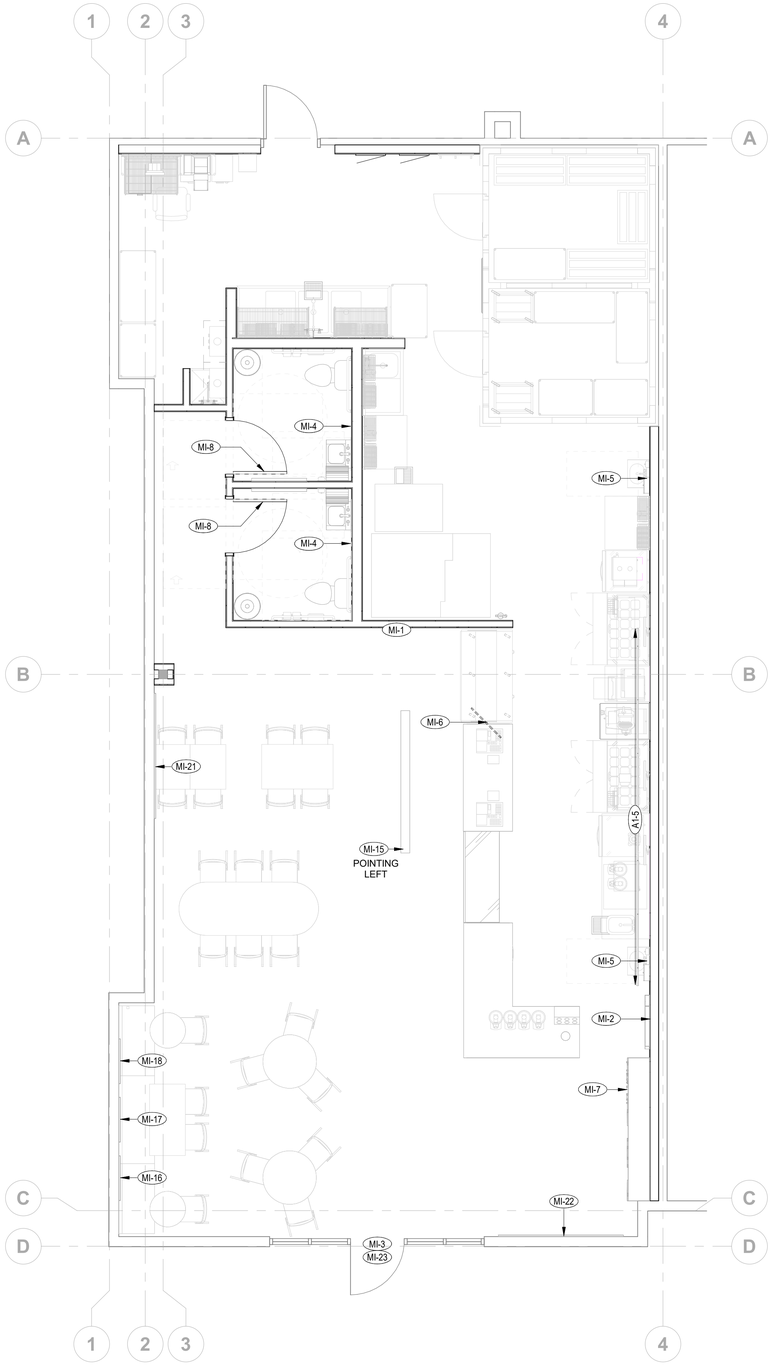
PROJECT	DATE
25154.000	12-11-2025
DRAWN	CHECKED
MDG	PS/JG

REVISED

SHEET
DOOR & WINDOW SCHEDULES

SHEET
A82
ORIGINAL SHEET SIZE
24" x 36"

12/16/2025 12:25:29 PM



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

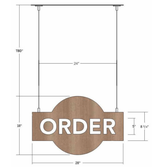

MI-1


MI-2

MI-3

MI-4

MI-5



MI-6

MI-7

MI-8


MI-15


MI-16


MI-17


MI-18


MI-21


MI-22

MI-23

A1-5

WALL GRAPHICS SCHEDULE	
MI-1	WALL MURAL (1)
MI-2	HAT & MUSTACHE SIGN (1)
MI-3	DOOR LOGO (1)
MI-4	NO DUMPING - HANDWASHING SIGN (2)
MI-5	HANDWASHING DECAL (2)
MI-6	ORDER SIGN (1)
MI-7	PICKUP SIGN (1)
MI-8	RESTROOM PLAQUE - UNISEX (2)
MI-15	ARROW SIGN (1)
MI-16	ARTWORK - BAGEL CHEERS (1)
MI-17	ARTWORK - BUILDING (1)
MI-18	ARTWORK - KIDS (1)
MI-21	ARTWORK - BIKER (1)
MI-22	ARTWORK - CONSTRUCTION WORKER (1)
MI-23	NO SMOKING SIGN (1)
WD100	WINDOW DISPLAY (1)
A1-5	MENU SIZE A 194" X 38" H (1)

NOTE: LOCATIONS ESTIMATED. FINAL LOCATION BY CLIENT

12/16/2025 12:25:39 PM

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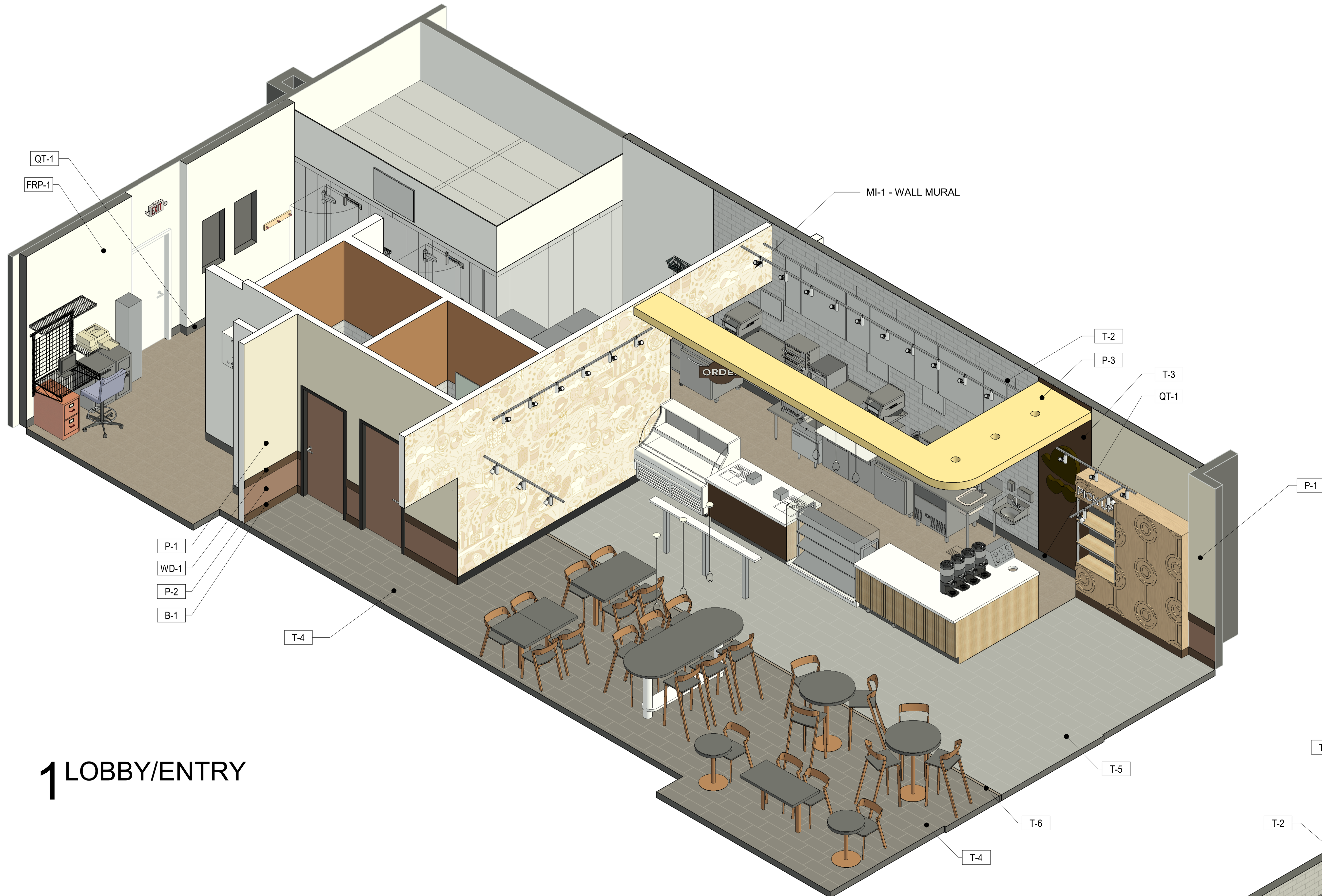
PROJECT	DATE
25154.000	12-11-2025
DRAWN	CHECKED
MDG	PS/JG

REVISED

SHEET TITLE
WALL GRAPHICS SCHEDULE

SHEET
A90
ORIGINAL SHEET SIZE
24" x 36"



1 LOBBY/ENTRY

2 BACK OF HOUSE

STEVEN B. WAKEMAN
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MDG	PS/JG

REVISED

SHEET TITLE
PERSPECTIVES

SHEET
A91

ORIGINAL SHEET SIZE 24" x 36"

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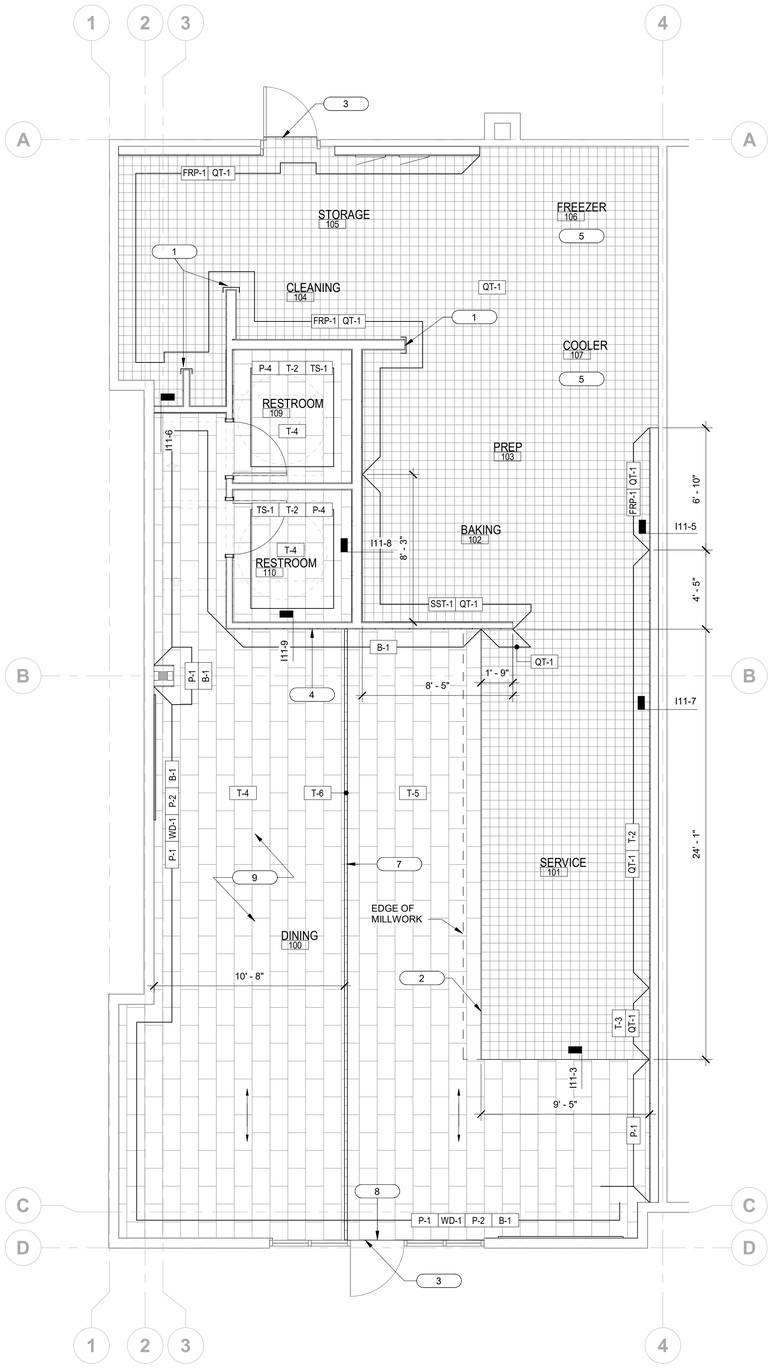
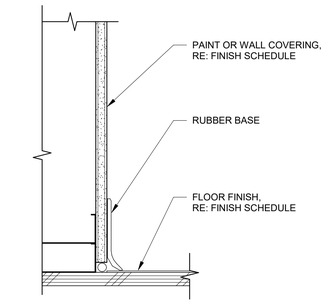
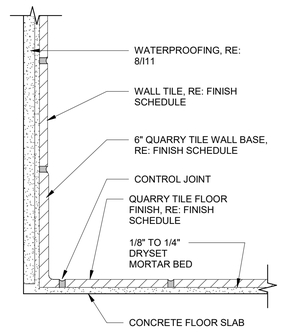


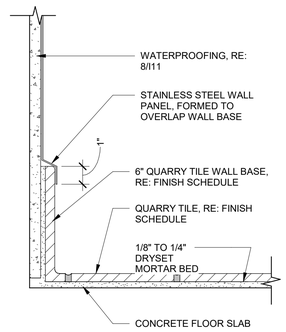
1 FLOOR PLAN
1/4" = 1'-0"



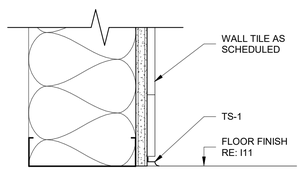
6 RUBBER BASE
3" = 1'-0"



7 QUARRY TILE BASE TO TILE
3" = 1'-0"



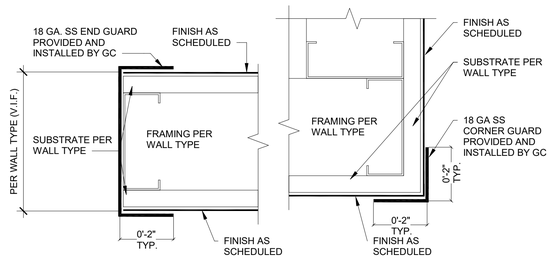
8 QUARRY TILE BASE TO STAINLESS STEEL
3" = 1'-0"



9 BASE @ RESTROOM DETAIL
3" = 1'-0"

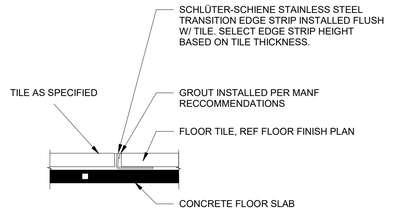
ROOM FINISH SCHEDULE

#	ROOM NAME	FLOOR	BASE	WALLS	CEILINGS
100	DINING	E.T.R.	B-1	WD-1, WP-2, P-1, P-2	ACT-1
101	SERVICE	E.T.R.	QT-1	T-2, T-3, P-1, P-3	ACT-1
102	PREP	E.T.R.	E.T.R.	FRP-1	VCT-1
103	BAKING	E.T.R.	TB-1	SST-1	E.T.R.
104	RESTROOM	E.T.R.	TB-1	T-2	VCT-1
105	RESTROOM	E.T.R.	TB-1	T-2	VCT-1
106	OFFICE	E.T.R.	E.T.R.	E.T.R.	E.T.R.
107	FREEZER	E.T.R.			
108	COOLER	E.T.R.			
109	STORAGE	E.T.R.	E.T.R.	E.T.R.	E.T.R.

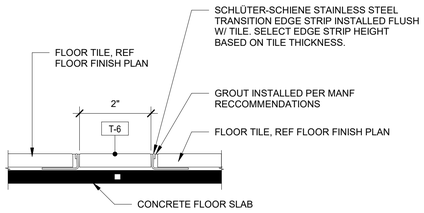


END CAP CORNER GUARD

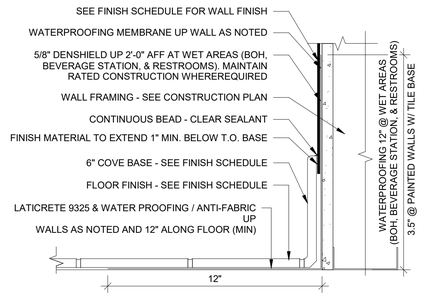
2 TYP SS CORNER GUARD
3/8" = 1'-0"



3 TILE TO TILE TRANSITION
6" = 1'-0"



4 DINING TO QUEUE TRANSITION
6" = 1'-0"



5 WATERPROOF DETAIL @ WALL
3" = 1'-0"

LEGEND:

F_ — FLOORING DESIGNATION, RE: FLOORING & WALL BASE SCHEDULE I81

00 00-01 — SHEET NOTE, RE: SHEET NOTES LIST ON CURRENT PAGE

XX — WALL FINISH/BASE DESIGNATION, RE: FINISH SCHEDULE I81

GENERAL NOTES:

A. DIMENSION IS NOT SHOWN ON INTERIOR SHEETS UNLESS INTERIOR SPECIFIC. REFER ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

B. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION / ORDERING.

C. ALL TRANSITION IN FLOORING ARE TO OCCUR DIRECTLY BENEATH DOORS U.N.O.

D. ALL GYPSUM BOARD APPLICATIONS SHALL BE SANDED, TAPED AND MUDDED AS NECESSARY.

E. PROVIDE A MAXIMUM OF 1/2" OFFSET AT ALL THRESHOLDS AND AT ANY CHANGES OF FLOORING MATERIAL. ICC/ANSI A117.1 SECTION 303.

F. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED (P-2).

G. ALL MATERIALS ARE TO BE INSTALLED PER MANUFACTURERS INSTRUCTIONS USING APPROPRIATE ADHESIVE.

H. SMOOTH FLOOR SUBSTRATE SURFACES. SAND OR GRIND SUBFLOORS TO REMOVE IRREGULARITIES. FILL LOW SPOTS, CONTROL OR CONSTRUCTION JOINTS AND OTHER DEFECTS AS REQUIRED TO PROVIDE UNIFORM SUBSTRATE FOR FLOOR FINISHES.

I. FINISHES NOT REQUIRED ON WALL AREA CONCEALED BY PERMANENT FIXTURES.

J. FINISHES SHALL EXTEND A MINIMUM OF 6" BEHIND FIXTURE.

K. PAINT ALL INTERIOR GYPSUM BOARD CEILINGS AND SOFFITS.

L. NO ITEM TO BE INSTALLED ON FINISH WALL MATERIALS WITHOUT PROJECT MANAGER AND OWNER'S APPROVAL.

M. ALL EXPOSED VENTS, ACCESS PANELS AND SIMILAR ITEMS TO BE PAINTED TO MATCH THE WALL OR CEILING SURFACES THAT THEY ARE ON.

N. REFER TO ENLARGED PLANS, ELEVATIONS, FINISH SCHEDULES FOR ADDITIONAL FINISH INFORMATION.

O. EXTEND RUBBER BASE A MINIMUM OF 6", MAXIMUM OF 12" BEHIND FIXTURES.

P. CONTRACTOR TO CAULK (SILICON SEALANT), BETWEEN FLOOR FINISH AND BASE & MILLWORK WITHIN ALL DINING OR FRONT OF HOUSE APPLICATIONS.

Q. CONTRACTOR TO CAULK (SILICON SEALANT), BETWEEN QUARRY TILE BASE AND FRP & STAINLESS STEEL WALL FINISHES WITHIN SERVING, COOK LINE, AND BACK OF HOUSE APPLICATIONS.

R. ALL UNUSED PAINT SHALL BE CLEARLY LABELED AND ADEQUATELY PACKAGED FOR STORAGE. CONTRACTOR SHALL DELIVER ALL UNUSED PAINT AND FINISH MATERIAL TO OWNER.

S. FRP WALL PANELS TO BE INSTALLED WITH FRP ADHESIVE PER MANUFACTURER SPECIFICATIONS.

T. GC TO COORDINATE PLACEMENT ALL MILLWORK PRIOR TO START OF FINISH WORK.

U. WALLS AND CEILINGS IN RESTROOM, FOOR PREPARATION, FOOD STORAGE, FOOD SERVICE AND UTENSIL STORAGE AREAS TO BE LIGHT COLORED, GLOSS OR SEMI GLOSS, SMOOTH, NONABSORBENT, AND EASILY CLEANABLE. SEE MATERIAL AND COLORS IN ROOM FINISH SCHEDULE. TO BE 40% OR GREATER LVR.

##-## SHEET NOTES:

1. CORNER GUARD OR END CAP PROVIDED BY KEC RE I11 - 2
2. LINE OF TILE TRANSITION 1'-0" BEHIND FRONT EDGE OF MILLWORK. RE: I11-3
3. GC TO PROVIDE ALUMINUM FLOOR TRANSITION AT EXIT DOOR THRESHOLDS
4. FULL SIZED MURAL
5. QT-1 TO BE INSTALLED PRIOR TO INSTALLATION OF WALK-IN BOXES
6. NOT USED
7. LINE OF DINING/QUEUE TILE TRANSITION. RE: I11-9-4
8. STARTING POINT OF T-5 SHALL BE CENTERED ON ENTRY DOOR
9. T- 4 TO RUN CONTINUOUSLY OFF T-5'S PATTERN

HEALTH DEPARTMENT NOTES

A. QUARRY TILE FLOORING SHALL HAVE SEALED GROUT.
B. PROVIDE BASEBOARDS OR COVING ON ALL NON MASONRY FLOOR/WALL JUNCTURES.
C. WALLS AND CEILINGS IN RESTROOM, FOOD PREPARATION, FOOD STORAGE,FOOD SERVICE, UTENSIL STORAGE AREAS TO BE LIGHT COLORED, GLOSS OR SEMI GLOSS, SMOOTH, NONABSORBENT, EASILY CLEANABLE AND LIGHT COLORED. SEE MATERIAL AND COLORS IN ROOM FINISH SCHEDULE. TO BE 40% OR GREATER LVR.

STATE OF MISSOURI
STEVEN B. WAKEMAN
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ARCHITECT

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PERMIT SET

PROJECT	DATE
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DRAWN	CHECKED
MDG	PS/JG

REVISED

SHEET TITLE
FLOOR FINISH PLAN

SHEET
I11
ORIGINAL SHEET SIZE
24" x 36"

12/16/2025 12:47:07 PM

INTERIOR FINISH MATERIALS SCHEDULE

CODE	DESCRIPTION	LOCATIONS, and/or CONTACT/OTHER INFO.
B-1	RUBBER WALL BASE MANUF: MANNINGTON (BURKE) STYLE: BURKEBASE COLOR: BLACK SIZE(S): 6"	LOCATION: DINING, HALL, FRONT SERVICE COMPANY: MANNINGTON / BURKE INDUSTRIES CONTACT: 1-800-241-2262
FRP-1	FIBERGLASS REINFORCED PANEL MANUF: MARLITE STYLE: STANDARD FRP COLOR: WHITE P-100 FINISH: PEBBLED FINISH 3/32" (.09") THICK SIZE: 4' X 8', 9', 10', 12' TRIM: STANDARD TRIM EDGING AND CORNERS (M300 SERIES)	LOCATION: BOH COMPANY: MARLITE NAME: VINCE VICINI PHONE: (330) 260-7617 E-MAIL: VINCEVICINI@MARLITE.COM NOTE: CLASS III (C) FLAMESPREAD
P-1	PAINT: WALL (TAN) MANUF: BENJAMIN MOORE TYPE/STYLE: 524 "AURA" INTERIOR COLOR: MANCHESTER TAN #HC-81 FINISH: EGGSHELL COATS: REFER TO SPECIFICATIONS NOTE: NO SUBSTITUTIONS	LOCATION: GENERAL PAINT COMPANY: BENJAMIN MOORE CONTACT: JAMES GORMAN PHONE: 201-949-6354 JIMS.GORMAN@BENJAMINMOORE.COM
P-2	PAINT: WALL (BROWN) MANUF: BENJAMIN MOORE TYPE/STYLE: 524 "AURA" INTERIOR COLOR: CHOCOLATE PUDDING #1014 FINISH: EGGSHELL COATS: REFER TO SPECIFICATIONS NOTE: NO SUBSTITUTIONS	LOCATION: GENERAL PAINT COMPANY: BENJAMIN MOORE CONTACT: JAMES GORMAN PHONE: 201-949-6354 JIMS.GORMAN@BENJAMINMOORE.COM
P-3	PAINT: WALL (YELLOW) MANUF: BENJAMIN MOORE TYPE/STYLE: 524 "AURA" INTERIOR COLOR: BROADWAY LIGHTS #298 FINISH: EGGSHELL COATS: REFER TO SPECIFICATIONS NOTE: NO SUBSTITUTIONS	LOCATION: SERVICE LINE SOFFIT COMPANY: BENJAMIN MOORE CONTACT: JAMES GORMAN PHONE: 201-949-6354 JIMS.GORMAN@BENJAMINMOORE.COM
P-4	PAINT: WALL (RUST) MANUF: BENJAMIN MOORE TYPE/STYLE: 524 "AURA" INTERIOR COLOR: TOASTED PECAN #1209 FINISH: EGGSHELL COATS: REFER TO SPECIFICATIONS NOTE: NO SUBSTITUTIONS	LOCATION: SERVICE LINE SOFFIT COMPANY: BENJAMIN MOORE CONTACT: JAMES GORMAN PHONE: 201-949-6354 JIMS.GORMAN@BENJAMINMOORE.COM
P-5	PAINT: CEILING (WHITE) MANUF: BENJAMIN MOORE TYPE/STYLE: 536 "ULTRA SPEC 500" INTERIOR COLOR: DUNE WHITE #968 FINISH: FLAT COATS: REFER TO SPECIFICATIONS NOTE: NO SUBSTITUTIONS	LOCATION: FRONT OF HOUSE COMPANY: BENJAMIN MOORE CONTACT: JAMES GORMAN PHONE: 201-949-6354 JIMS.GORMAN@BENJAMINMOORE.COM
PL-1	PLASTIC LAMINATE MANUF: WILSONART COLOR: LOFT OAK 7968K-12	LOCATION: REFER TO MILLWORK DRAWINGS PROVIDED BY MILLWORK
PL-2	PLASTIC LAMINATE MANUF: - COLOR: G2 - BLACK	LOCATION: REFER TO MILLWORK DRAWINGS PROVIDED BY MILLWORK
QT-1	QUARRY TILE MANUF: ARIZONA TILE STYLE: METRO SIZE: 6" x 6" COLOR: PURITAN GRAY GROUT: MAPEI #47 CHARCOAL INSTALL: STACK BOND	LOCATION: SERVICE LINE, BOH COMPANY: ARIZONA TILE NAME: JENNIFER ZALOUDEK PHONE: 303-917-9257 EMAIL: JZALOUDEK@ARIZONATILE.COM
SS-1	SOLID SURFACE MANUF: DURAT COLOR: GREYHOUND #DP001	LOCATION: REFER TO MILLWORK DRAWINGS PROVIDED BY MILLWORK
SST-1	STAINLESS STEEL PANELS MANUF: - COLOR: SMOOTH STAINLESS STEEL THICKNESS: 20 GA. NOTES: REF. DETAILS	LOCATION: WALLS AT OVEN PROVIDED BY GC
WP-1	MDF WOOD PANELS MANUF: WALSTON ARCHITECTURAL PRODUCTS STYLE: 2" FLUTED WALL PANEL SIZE: 4' x 8' COLOR: CHARLESTON OAK	LOCATION: REFER TO MILLWORK DRAWINGS PROVIDED BY MILLWORK
WP-2	MDF WOOD PANELS MANUF: WALSTON ARCHITECTURAL PRODUCTS STYLE: #S023 3D CIRCLE WALL PANEL SIZE: 4' x 8' COLOR: WHITE OAK	LOCATION: REFER TO MILLWORK DRAWINGS PROVIDED BY MILLWORK

CODE	DESCRIPTION	LOCATIONS, and/or CONTACT/OTHER INFO.
T-1	CERAMIC TILE MANUF: TILEBAR STYLE: KANBINA SIZE: 5" x 18" MESH COLOR: HONEY BROWN GROUT: MAPEI #14 BISCUIT INSTALL: VERTICAL STACK BOND	LOCATION: REFER TO MILLWORK DRAWINGS PROVIDED BY MILLWORK
T-1A	PORCELAIN TILE (ALTERNATE) NOT USED INSTALL: VERTICAL STACK BOND	LOCATION: REFER TO MILLWORK DRAWINGS PROVIDED BY MILLWORK
T-2	RECTIFIED GLAZED PORCELAIN TILE MANUF: ARIZONA TILE STYLE: VERTI SERIES SIZE: 8" x 24" COLOR: BIANCO POLISHED GROUT: MAPEI #14 BISCUIT INSTALL: HORIZONTAL RUNNING BOND 33% MAX OFFSET	LOCATION: SERVICE LINE, RESTROOMS COMPANY: ARIZONA TILE NAME: JENNIFER ZALOUDEK PHONE: 303-917-9257 EMAIL: JZALOUDEK@ARIZONATILE.COM
T-3	CERAMIC TILE MANUF: FIRECLAY STYLE: ORIGINAL CERAMIC SIZE: 3" x 6" COLOR: TUOLUMNE MEADOWS GROUT: MAPEI #14 BISCUIT INSTALL: VERTICAL STACK BOND	LOCATION: ACCENT WALL COMPANY: FIRECLAY TILE NAME: CECEILY INVONGTHEP PHONE: 831-208-2285 EMAIL: CECEILY@FIRECLAYTILE.COM
T-3A	CERAMIC TILE (ALTERNATE) NOT USED INSTALL: VERTICAL STACK BOND	LOCATION: REFER TO MILLWORK DRAWINGS PROVIDED BY MILLWORK
T-4	RECTIFIED PORCELAIN TILE MANUF: ARIZONA TILE STYLE: KONKRETE SIZE: 12" x 24" COLOR: BEIGE GROUT: MAPEI #105 DRIFTWOOD INSTALL: RUNNING BOND 33% MAX OFFSET	LOCATION: LOBBY COMPANY: ARIZONA TILE NAME: JENNIFER ZALOUDEK PHONE: 303-917-9257 EMAIL: JZALOUDEK@ARIZONATILE.COM
T-5	RECTIFIED PORCELAIN TILE MANUF: ARIZONA TILE STYLE: KONKRETE SIZE: 12" x 24" COLOR: BIANCO GROUT: MAPEI #105 DRIFTWOOD INSTALL: RUNNING BOND 33% MAX OFFSET	LOCATION: LOBBY COMPANY: ARIZONA TILE NAME: JENNIFER ZALOUDEK PHONE: 303-917-9257 EMAIL: JZALOUDEK@ARIZONATILE.COM
T-6	RECTIFIED PORCELAIN TILE MANUF: ARIZONA TILE STYLE: KONKRETE SIZE: 2" x 2" MESH COLOR: BEIGE GROUT: MAPEI #105 DRIFTWOOD	LOCATION: LOBBY TRANSITION COMPANY: ARIZONA TILE NAME: JENNIFER ZALOUDEK PHONE: 303-917-9257 EMAIL: JZALOUDEK@ARIZONATILE.COM
TS-1	TRANSITION STRIP - COVED BASE MANUF: SCHLUTER SYSTEMS TYPE: DILEX-AHKA ITEM #: AHKA 100 ATGB SIZE: 10MM, 3/8" FINISH: BRUSHED NICKEL ANODIZED ALUMINUM (ATGB) NOTES: REF. DETAIL PROVIDE CORNER ACCESSORIES WITH MATCHING FINISH	LOCATION: RESTROOM WALL/FLOOR TRANSITION COMPANY: SCHLUTER SYSTEMS NAME: EARL MAICUS PHONE: (800) 267-0817
TS-2	TRANSITION STRIP - FLOORING MANUF: SCHLUTER SYSTEMS TYPE: SCHIENE SIZE: 10MM, 3/8" OR 12.5MM, 1/2" FINISH: ANODIZED ALUMINUM (AE) NOTES: REF. DETAIL	LOCATION : QT/CT TRANSITION COMPANY: SCHLUTER SYSTEMS NAME: EARL MAICUS PHONE: (800) 267-0817
TS-3	TRANSITION STRIP - WALL MANUF: SCHLUTER SYSTEMS TYPE: RONDEC-MC ITEM #: RO 80 EB SIZE: 8MM, 5/16" FINISH: BRUSHED STAINLESS STEEL 304 FINISI: REF. DETAIL PROVIDE CORNER ACCESSORIES WITH MATCHING FINISH	LOCATION: TOP AND ENDS OF EXPOSED EDGE OF FRP (WHERE FRP MEETS S.S. AND/OR PAINTED GYP. BD.) COMPANY: SCHLUTER SYSTEMS NAME: EARL MAICUS PHONE: (800) 267-0817
WD-1	EBB WOOD & STAIN FINISH: STAIN TO MATCH PANTONE WP-1	LOCATION: REFER TO MILLWORK DRAWINGS PROVIDED BY MILLWORK

12/16/2025 12:27:01 PM

STATE OF MISSOURI
STEVEN B. WAKEMAN
NUMBER A-2020020380
12-12-25
ARCHITECT

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LEE'S SUMMIT, MO 64086

CSHQA

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PERMIT SET

PROJECT	DATE
25154.000	12-11-2025
DRAWN	CHECKED
MDG	PS/JG

REVISED

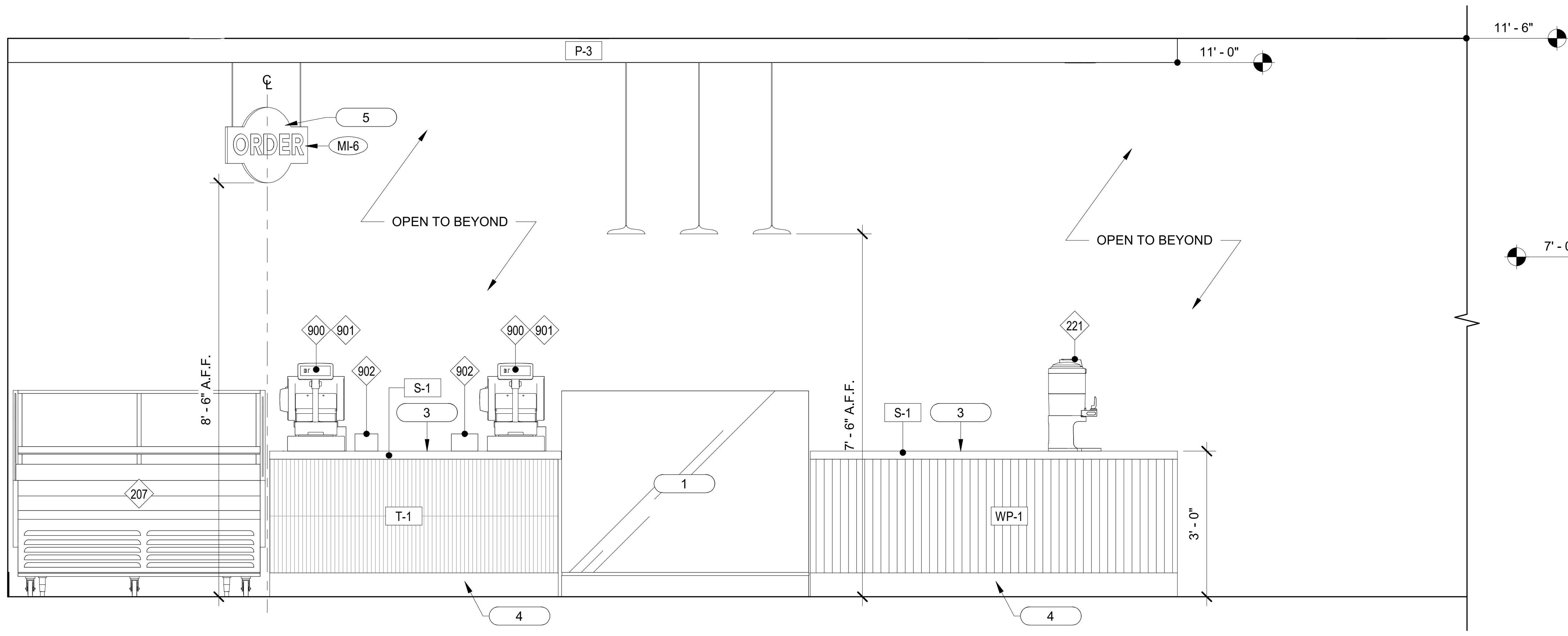
SHEET TITLE

FINISH SCHEDULE

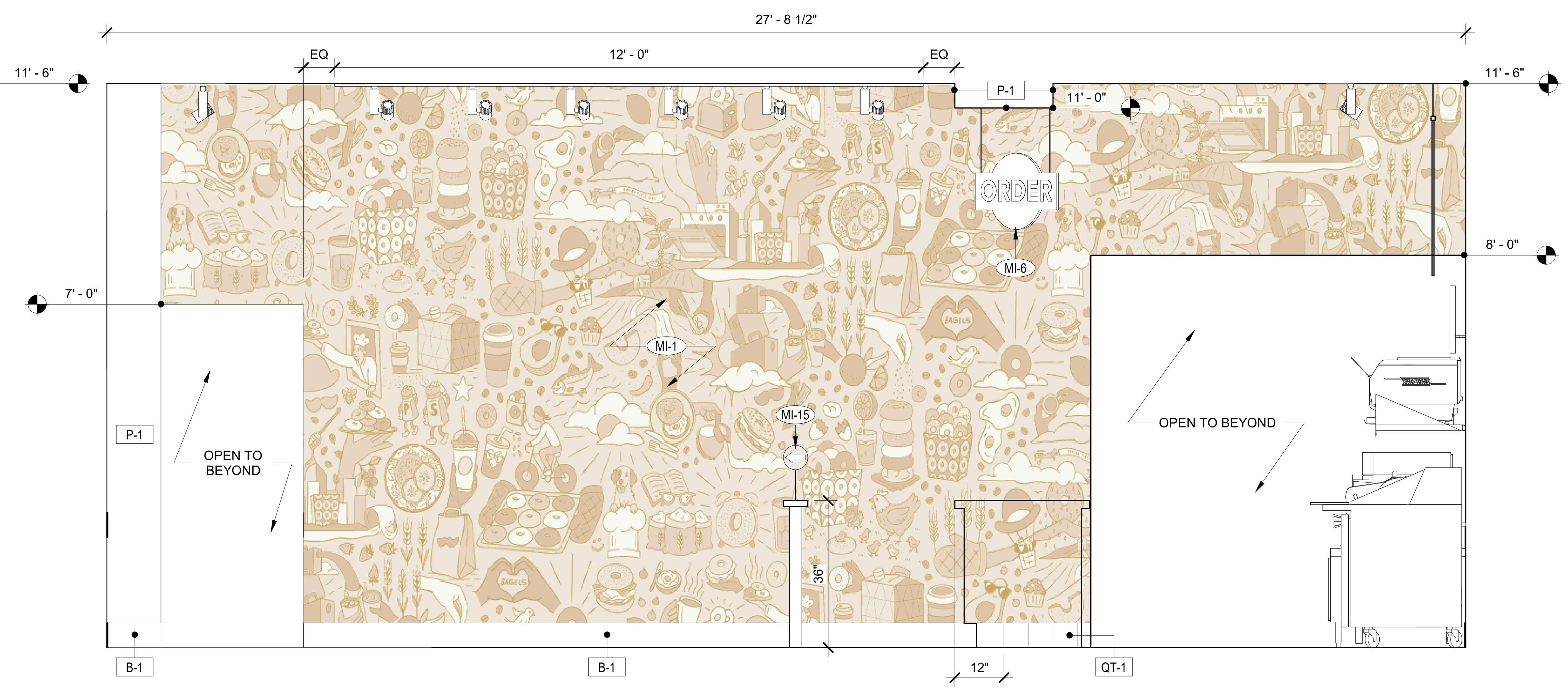
SHEET

I12

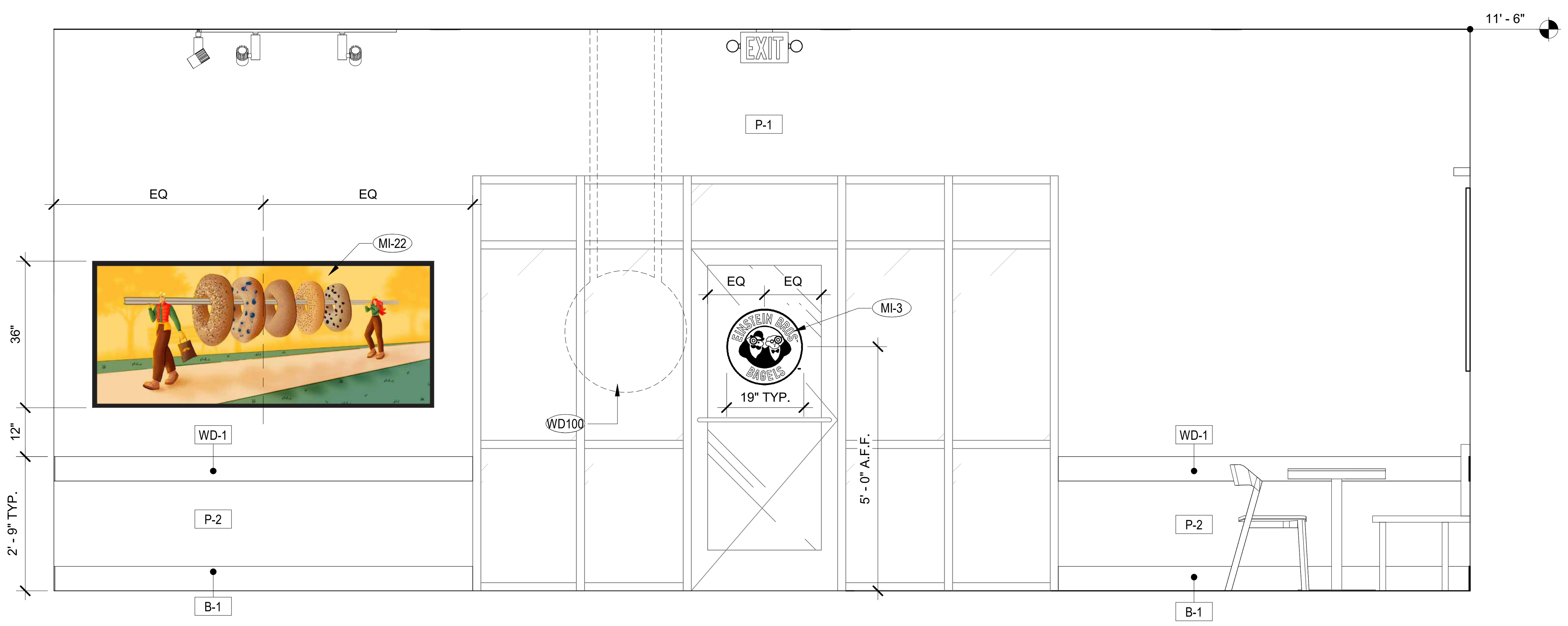
ORIGINAL SHEET SIZE
24" x 36"



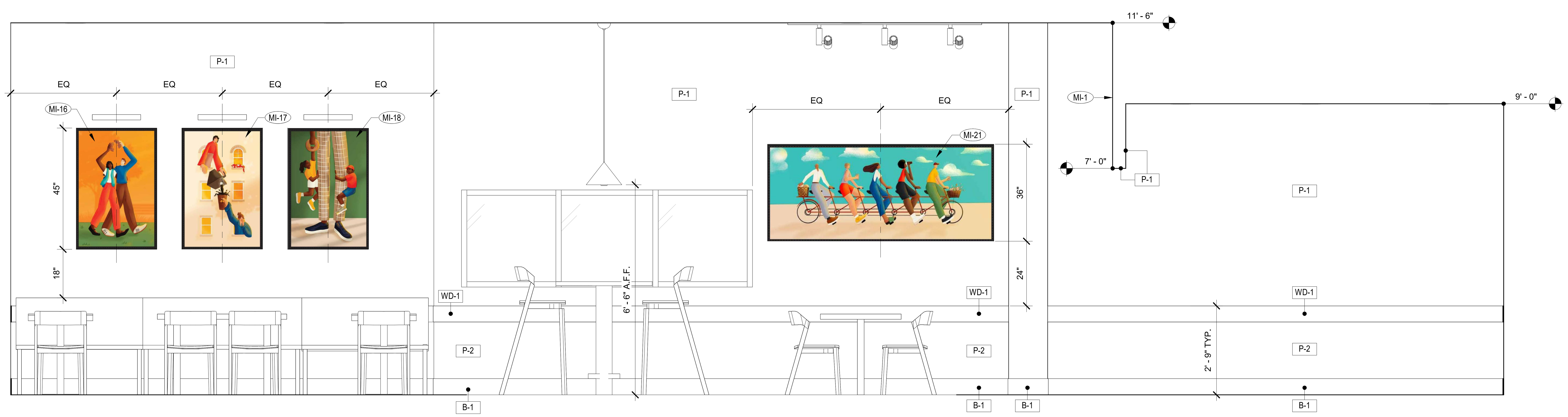
1 INTERIOR ELEVATION
1/2" = 1'-0"



2 INTERIOR ELEVATION
1/2" = 1'-0"



3 INTERIOR ELEVATION
1/2" = 1'-0"



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

##-## SHEET NOTES:

1. BAGEL CASE RE: MILLWORK PLAN A23 - 1
2. PICK-UP SHELVES RE: MILLWORK PLAN A23 - 1
3. FRONT COUNTER RE: MILLWORK PLAN A23 - 1
4. BASE MATERIAL PROVIDED BY MILLWORK
5. MI-6 SITS AT 45 DEGREES FACING FRONT DOOR

STATE OF MISSOURI
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PROJECT	DATE
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MDG	PS/JG

REVISED

SHEET TITLE
INTERIOR ELEVATIONS

SHEET
I51

ORIGINAL SHEET SIZE
24" x 36"

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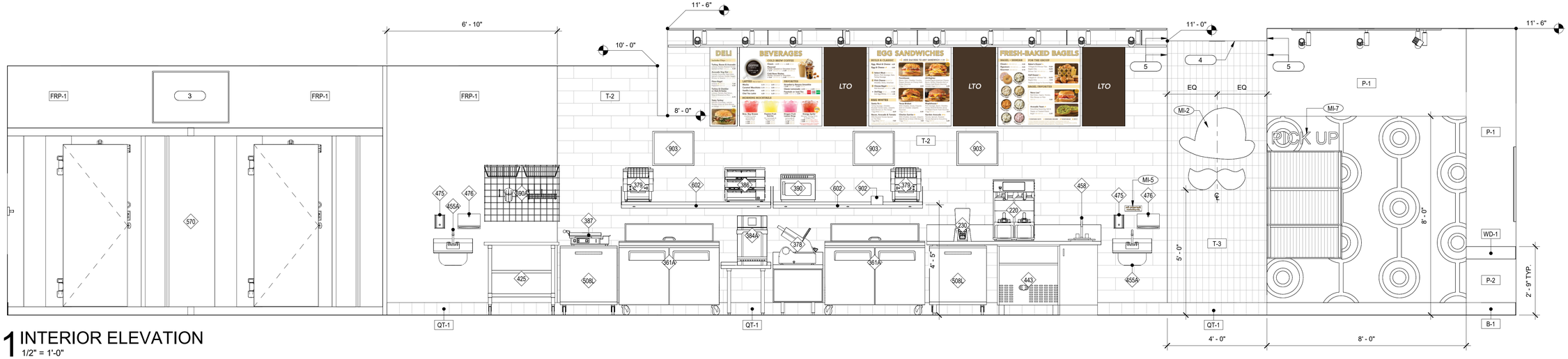
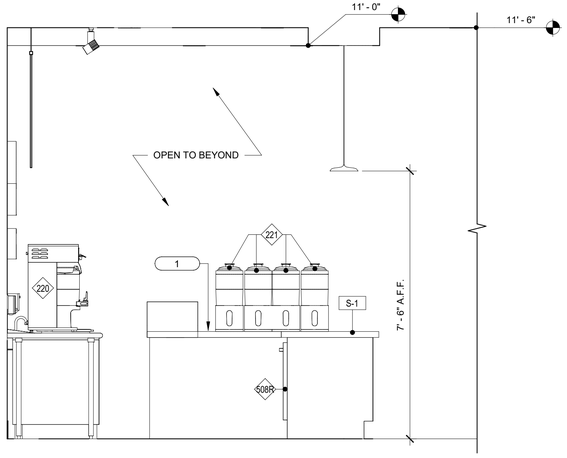
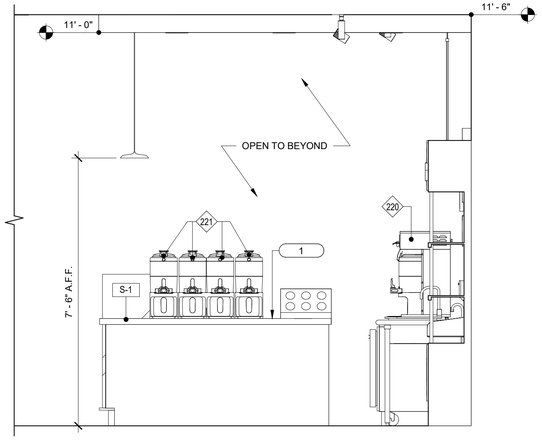


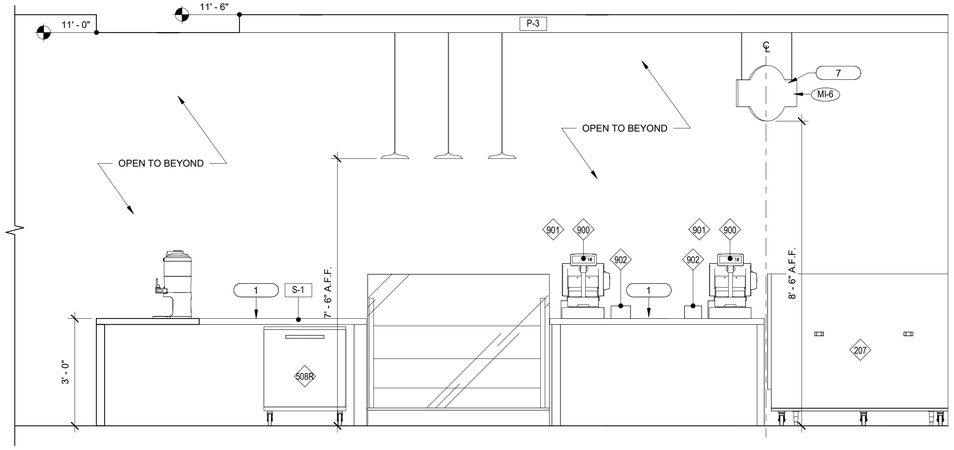
1 INTERIOR ELEVATION
1/2" = 1'-0"



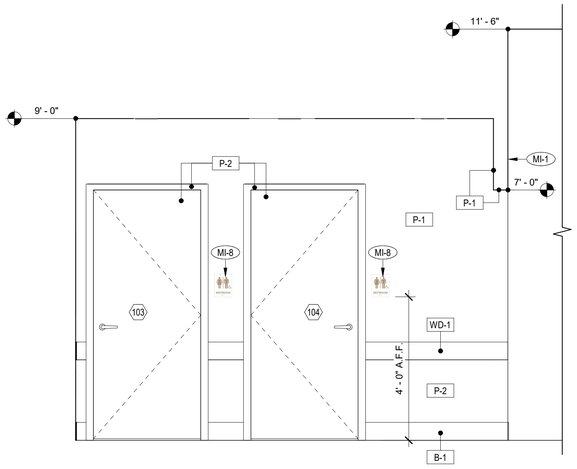
2 INTERIOR ELEVATION
1/2" = 1'-0"



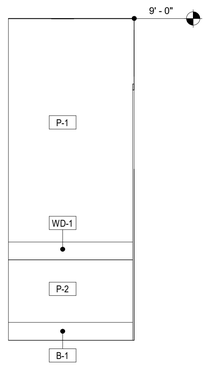
4 INTERIOR ELEVATION
1/2" = 1'-0"



3 INTERIOR ELEVATION
1/2" = 1'-0"



5 INTERIOR ELEVATION
1/2" = 1'-0"



6 INTERIOR ELEVATION
1/2" = 1'-0"

SHEET NOTES:

1. FRONT COUNTER RE: MILLWORK PLAN A23 - 1
2. SAFE MOUNTING RE: A22-11
3. GC TO PROVIDE 24" x 36" ACCESS PANEL, COLOR: WHITE
4. FULL TILE AT THE TOP
5. ALIGN
6. BASE MATERIAL PROVIDED BY MILLWORK
7. MI-6 SITS AT 45 DEGREES FACING FRONT DOOR

STATE OF MISSOURI
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REVISED

SHEET TITLE
INTERIOR ELEVATIONS

SHEET
I52
ORIGINAL SHEET SIZE
24" x 36"

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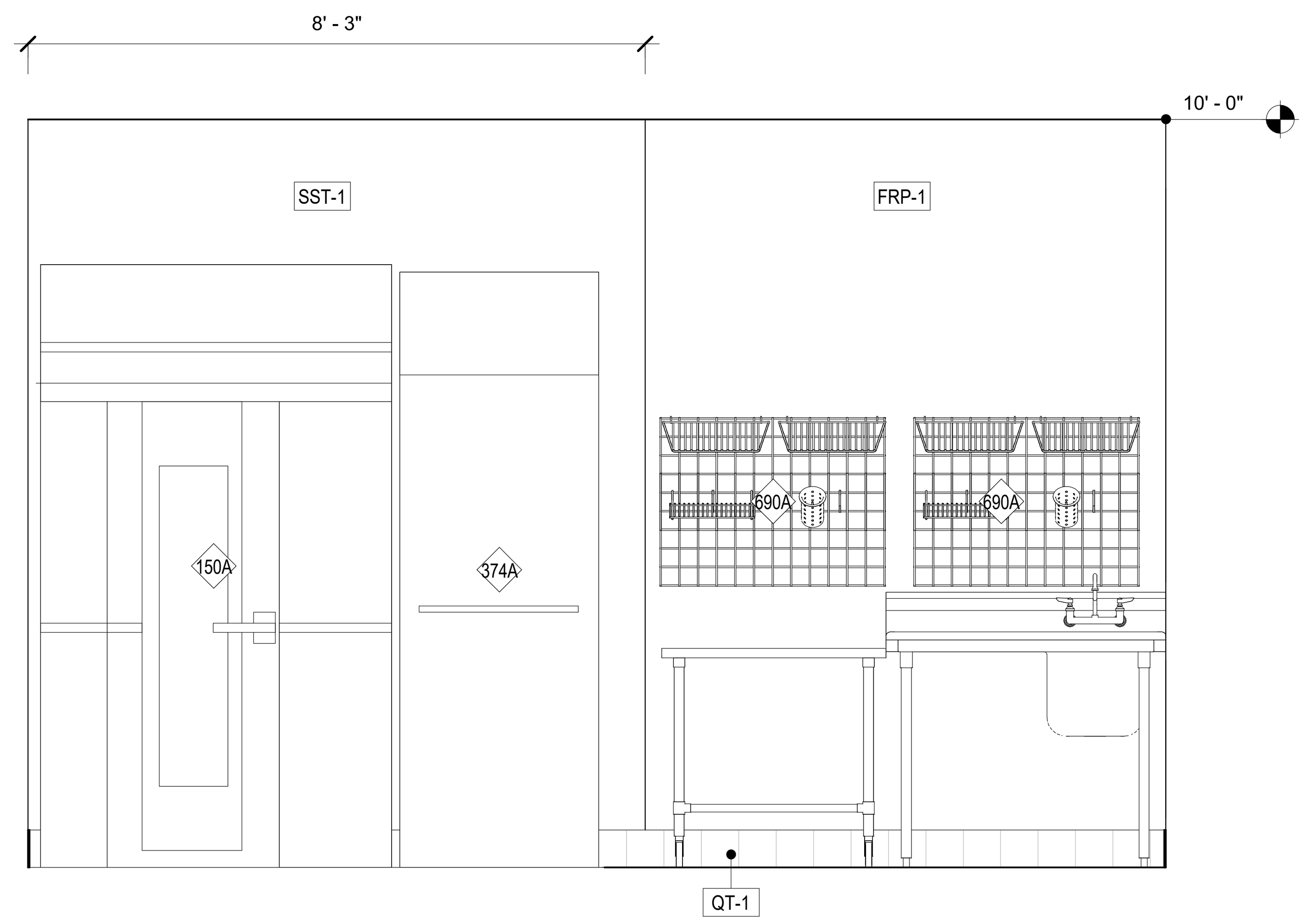
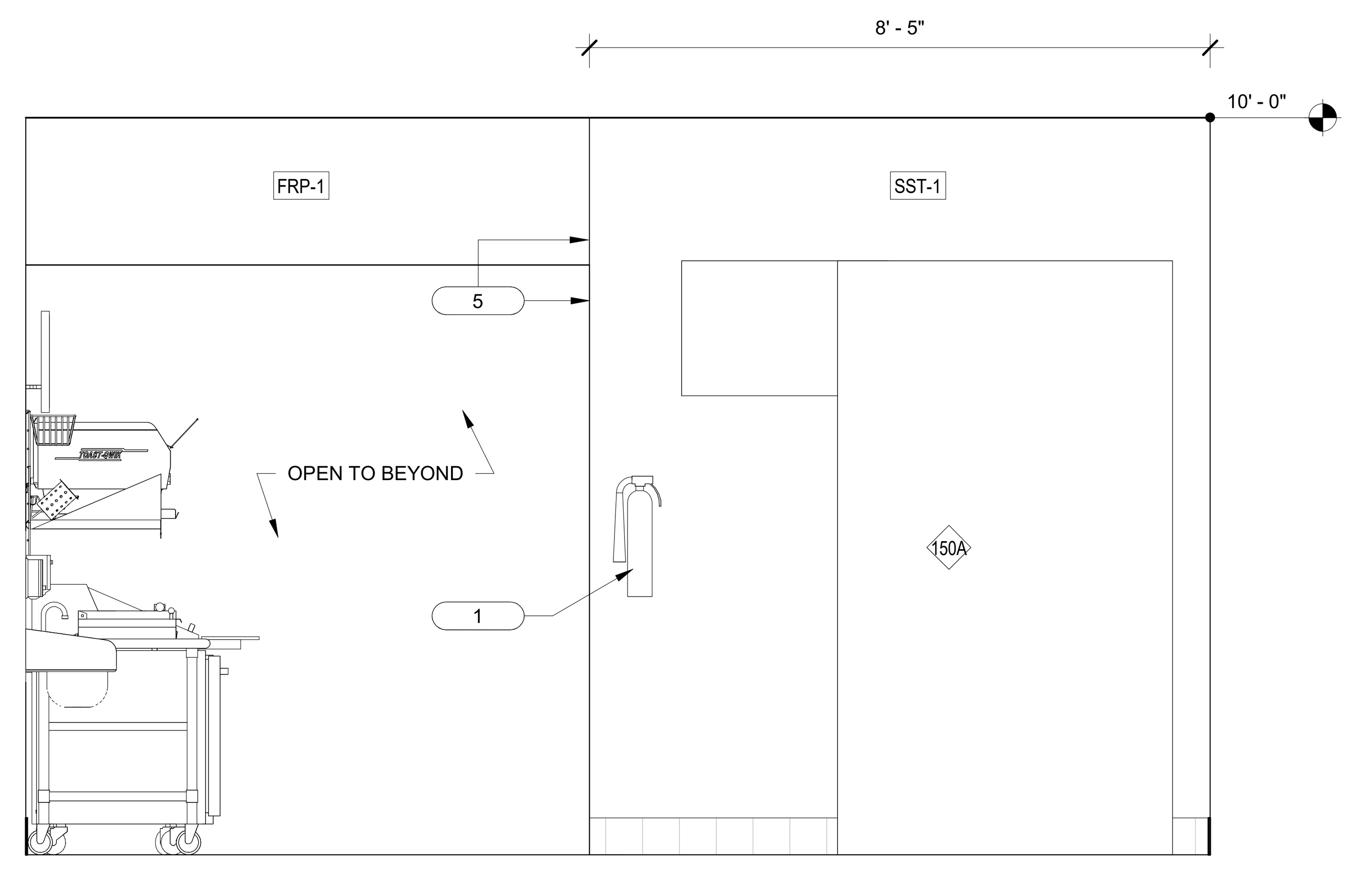
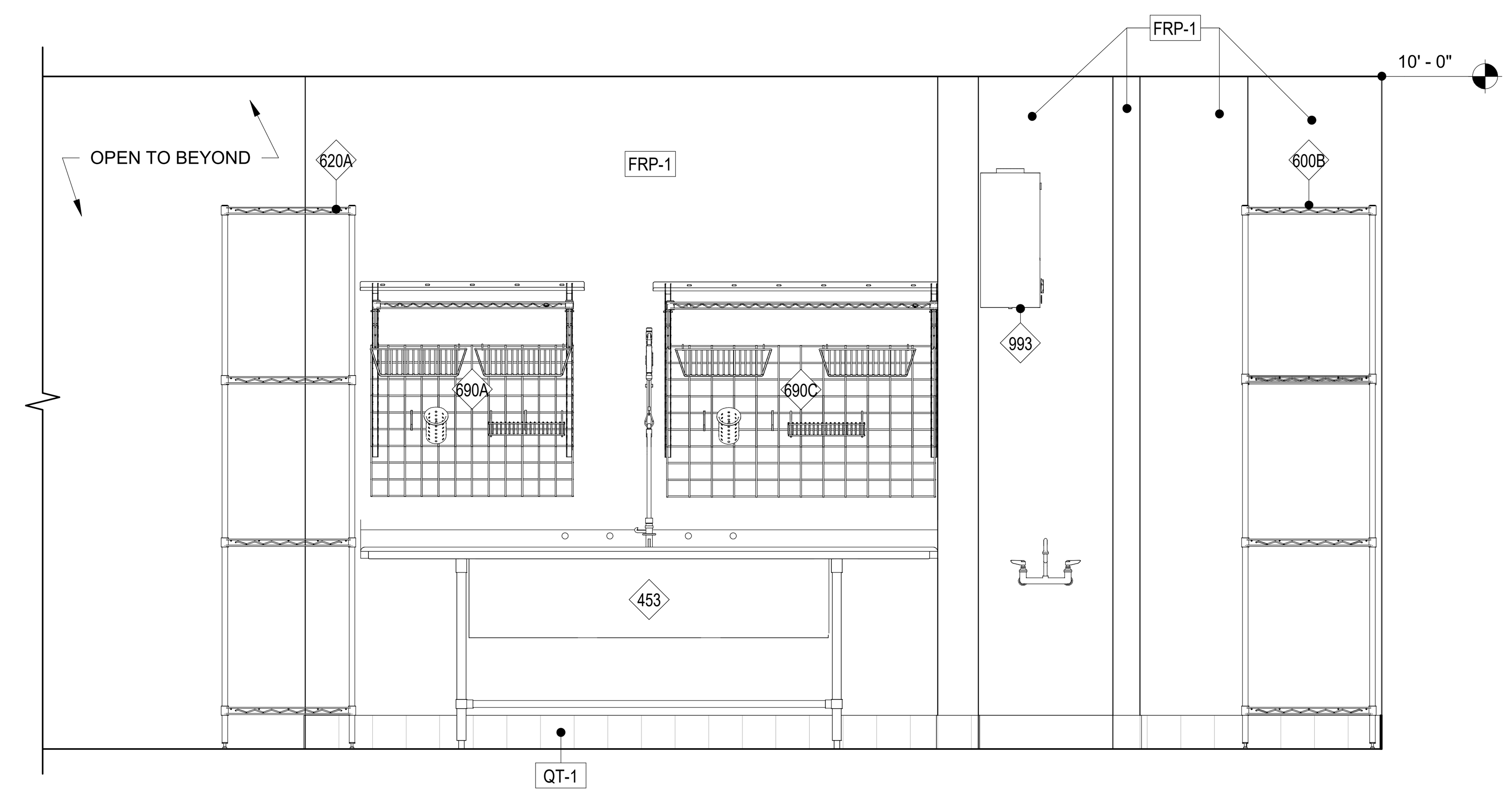


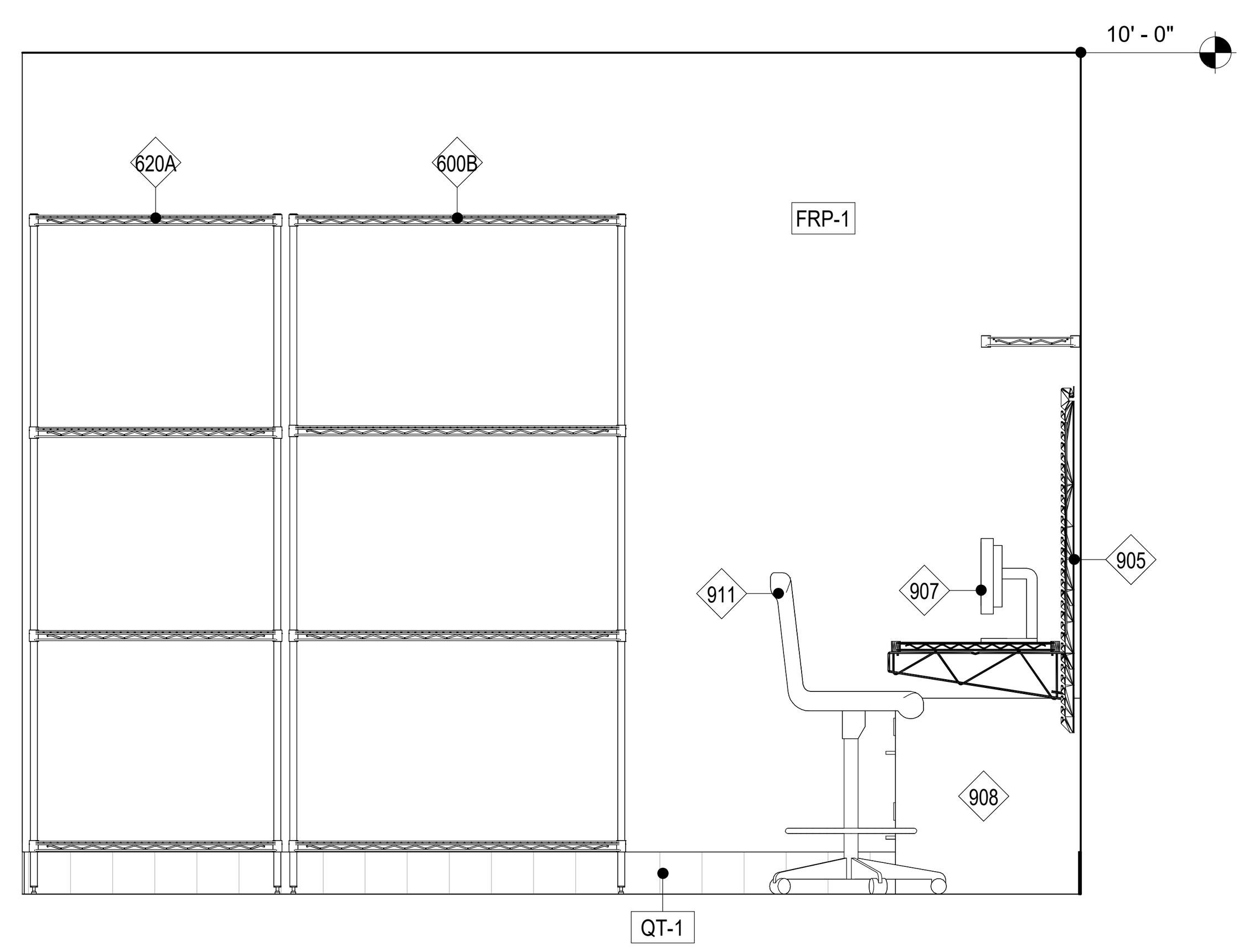
1 INTERIOR ELEVATION
1/2" = 1'-0"



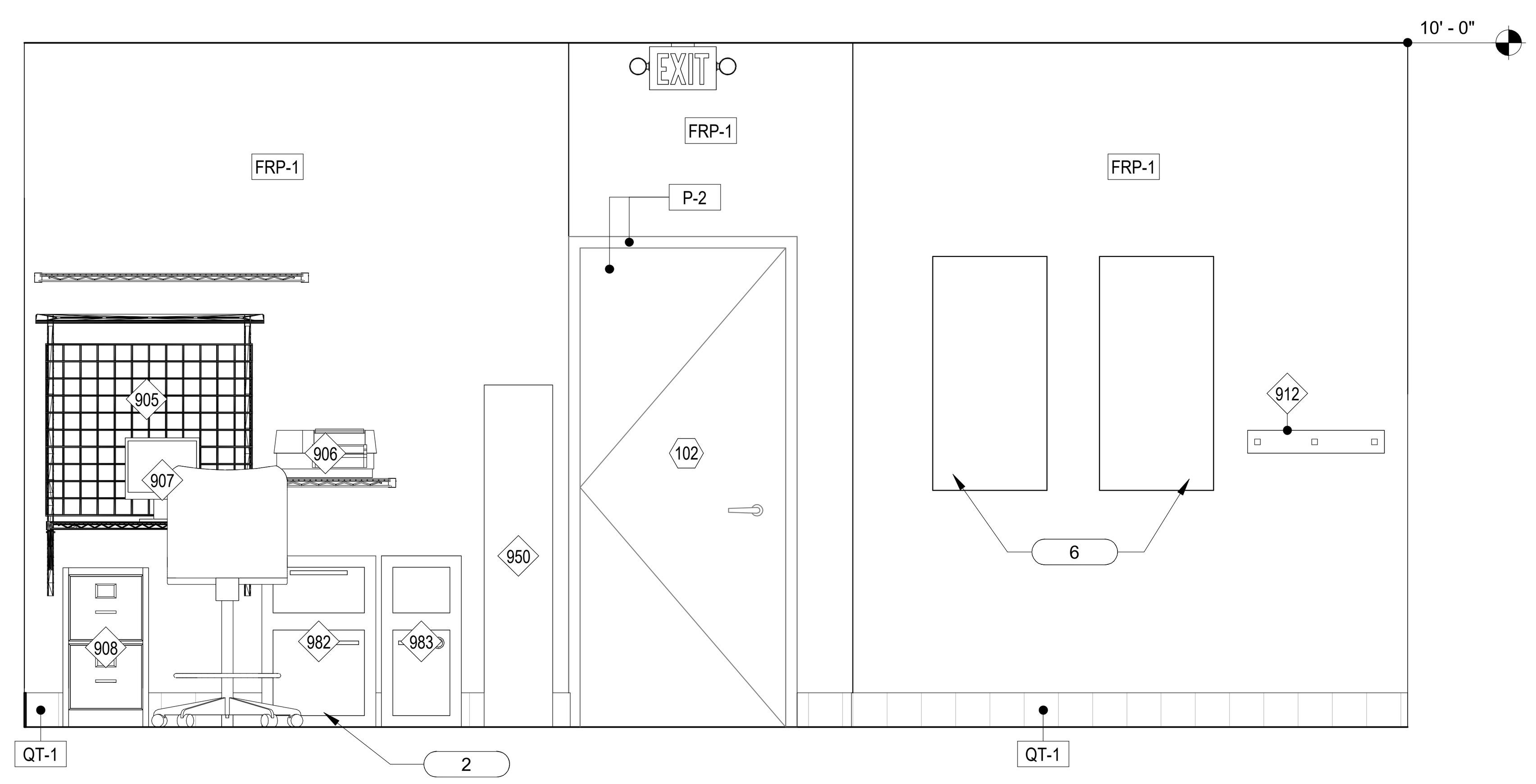
2 INTERIOR ELEVATION
1/2" = 1'-0"



3 INTERIOR ELEVATION
1/2" = 1'-0"



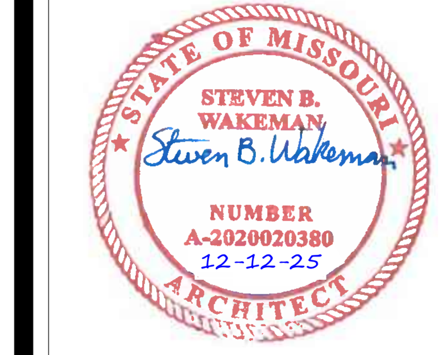
4 Elevation 9 - c
1/2" = 1'-0"



5 INTERIOR ELEVATION
1/2" = 1'-0"

SHEET NOTES:

1. FIRE EXTINGUISHER RE: Q11-2
2. SAFE MOUNTING RE: A22-11
3. GC TO PROVIDE 24" x 36" ACCESS PANEL, COLOR: WHITE
4. FULL TILE AT THE TOP
5. ALIGN
6. ELECTRICAL PANEL - SEE ELECTRICAL DRAWINGS



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PROJECT	DATE
25154.000	12-11-2025
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MDG	PS/JG

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SHEET TITLE
INTERIOR ELEVATIONS

SHEET
I53
ORIGINAL SHEET SIZE 24" x 36"

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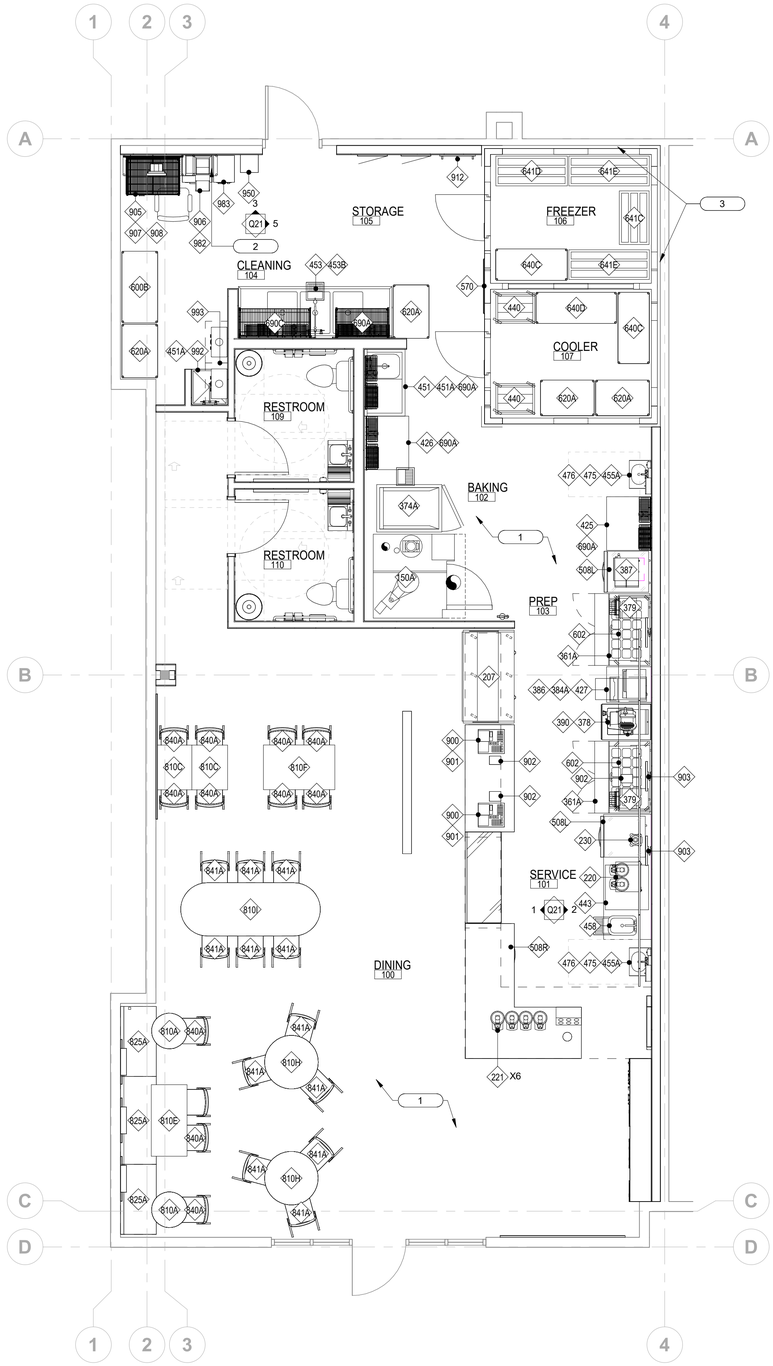
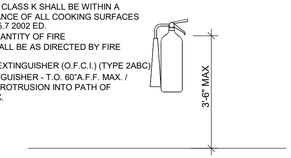


1 EQUIPMENT PLAN
1/4" = 1'-0"

NOTE:
1. IN ASSEMBLY OCCUPANCIES FIRE EXTINGUISHERS SHALL BE INSTALLED AT A MAXIMUM OF 48" A.F.F. TO THE TOP OF THE HANDLE.
2. FIRE EXTINGUISHERS MUST HAVE A MINIMUM OF "2ABC" RATING AND CLASS K SHALL BE WITHIN A 30'-0" TRAVEL DISTANCE OF ALL COOKING SURFACES PER NFPA 10, SEC. 5.7 2002 ED.
3. FINAL LOCATION & QUANTITY OF FIRE EXTINGUISHERS SHALL BE AS DIRECTED BY FIRE MARSHAL.
4. INSTALL NEW FIRE EXTINGUISHER (O.F.C.I.) (TYPE 2ABC) WALL MOUNT EXTINGUISHER - T.O. 60"A.F.F. MAX. / B.O. 4"MIN. A.F.F. - PROTRUSION INTO PATH OF CIRCULATION 4"MAX.



2 FIRE EXTINGUISHER DETAIL
12" = 1'-0"

EQUIPMENT NOTES

THE TENANT GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL HOOK-UPS ON ALL PIECES OF EQUIPMENT.

RESPONSIBILITIES INCLUDE:
-UNLOAD EQUIPMENT FROM DELIVERY TRUCKS
-ASSEMBLY OF EQUIPMENT
-PLACEMENT OF EQUIPMENT PER PLAN
-SECURING SINKS TO WALLS (REQUIRES WALL BACKING)
-HANG WALL SHELVES (REQUIRES WALL BACKING)
-START-UP OF THE EQUIPMENT
-ALL ELECTRICAL AND PLUMBING CONNECTIONS. THIS INCLUDES GAS LINES, RESTRAINING DEVICES, WATER LINES, DRAIN LINES, WIRING, ETC.

SHEET NOTES:

1. ELECTRICAL MOUNTING HEIGHTS RE: Q21
2. GC TO MOUNT SAFE UNDER OFFICE RE: A22-11
3. PROVIDE WALL CLEARANCE PER MANUFACTURER INSTRUCTIONS

STATE OF MISSOURI
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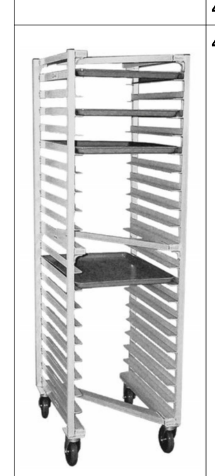
SHEET TITLE
EQUIPMENT PLAN

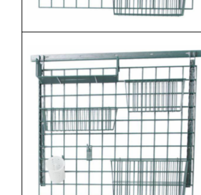
SHEET
Q11
ORIGINAL SHEET SIZE
24" x 36"

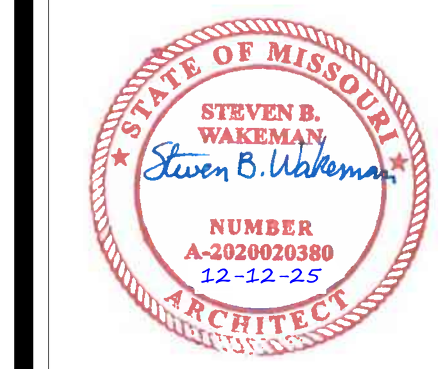
12/16/2025 12:27:43 PM

Equipment Schedule

Image	Item	Count	Description	Manufacturer	Model	Comments	Provided by
	150A	1	SINGLE RACK GAS OVEN	REVENT	726U	LEFT HANDED	
	207	1	OPEN AIR MERCHANDISERS	ATOSA	ATHOM-60	62 1/4" W X 34 9/16" D X 44 3/8" H	EQ VENDOR
	220	1	COFFEE BREWER W/ SHUTTLES - TWIN	FETCO	CBS-1252 PLUS BREWER		EQ VENDOR
	221	6	COFFEE SHUTTLE	FETCO	D449	NOT HEATED. NO ELECTRIC NEEDED	EQ VENDOR
	230	1	BLENDER	BLEND-TEC	C825C11Q-NWRG2		EQ VENDOR
	361A	2	4' SANDWICH STATION	ATOSA	MSF8306GR	48" W X 34" D X 46" H W/ DOORS, 9.5" CUTTING BOARDS & 2" CASTERS	EQ VENDOR
	374A	1	PROOFER	REVENT	PLUG AND PLAY	RIGHT HINGED	
	378	1	BAGEL SLICER	OLIVER	723-N	16 1/8" W X 29 3/4" D X 22 3/4" H	EQ VENDOR
	379	2	BAGEL TOASTER	HATCO	TQ-800HBA		EQ VENDOR
	384A	1	The ECO ST	TurboChef	ECS-9500-801		
	386	1	Holding Cabinet	Merco	MHG32SAB1N		EQ VENDOR
	387	1	EGG COOKER	ANTUNES	ES-604 (9300574)		EQ VENDOR
	390	1	MICROWAVE	PANASONIC	NE-17523		EQ VENDOR
	425	1	BAKE TABLE	Eagle Group	3036GADJUS	36" W X 30" D X _H CUTTING BOARD WITH EXTRA UNDERSHELF	EQ VENDOR
	426	1	SS PREP TABLE	Eagle Group	T3036B		EQ VENDOR
	427	1	SHORT SS TABLE	JOHN BOOS	G562430SBK	24" W X 30" D X 24" H	EQ VENDOR
	440	4	BAKE/PROOF RACK	Eagle Group	YEIN-PANRACK-001-00	26" D X 20 5/8" W X 71 1/2" H	EQ VENDOR
	442	3	PROOF RACK	REVENT	APR1518-4R0R	20.5" D X 26" W X 71" H	EQ VENDOR

Equipment Schedule

Image	Item	Count	Description	Manufacturer	Model	Comments	Provided by
	443	1	ICE MACHINE - UNDER COUNTER	ATOSA	YR280-AP-161	W/ B-300 BIN	EQ VENDOR
	451	1	One-Compartment Sink	Eagle Group	414-16-1-24R	44 7/8" W X 27 1/2" D X 37.5" H	EQ VENDOR
	451A	2	FAUCET	T&S	B-0231		
	453	1	Three Bowl Stainless Steel Fabricated Sink	Eagle Group	S16-28-3-18	103" W X 35"D	
	453B	1	PRE RINSE FAUCET	T&S	B-0129-VB		
	455A	2	WALL-MOUNTED HAND SINK	Eagle Group	HSA-10-F-LRS		EQ VENDOR
	458	1	DROP-IN DUMP SINK	JOHN BOOS	PBDISINK101410-SSLR		
	475	4	SOAP DISPENSER	ECOLAB	92021176		
	476	2	PAPER TOWEL DISPENSER	SAN JAMAR	T950 TBK		
	508L	2	UNDERCOUNTER REFRIGERATOR -SINGLE DOOR	TRAULSEN	UTR27-L	LEFT HINGE	EQ VENDOR
	508R	1	UNDERCOUNTER REFRIGERATOR - SINGLE DOOR	TRAULSEN	UTR27-R	RIGHT HINGE	
	570	1	WALK-IN COOLER/FREEZER	KOL-PAK	EBB CUSTOM	REMOTE CONDENSER	
	600B	1	WIRE SHELVING	METRO	24"X48"	GRAY FINISH; 5 TIER	EQ VENDOR
	602	2	HOLDING BIN SHELF	Eagle Group	YSHELF-0183-00	(1) 72" W SHELF, (1) 48" W SHELF	EQ VENDOR
	620A	4	WIRE SHELVING	Eagle Group	36"X24"	GRAY FINISH; 5 TIER	EQ VENDOR
	640C	2	WIRE SHELVING	Eagle Group	48"X21"	GRAY FINISH; 5 TIER	EQ VENDOR
	640D	1	WIRE SHELVING	Eagle Group	54"X21"	GRAY FINISH; 5 TIER	EQ VENDOR
	641C	1	FREEZER DUNNAGE RACK	Eagle Group	36"X20"	GRAY FINISH	EQ VENDOR
	641D	1	FREEZER DUNNAGE RACK	Eagle Group	48"X20"	GRAY FINISH	EQ VENDOR
	641E	2	FREEZER DUNNAGE RACK	Eagle Group	54"X20"	GRAY FINISH	EQ VENDOR
	690A	4	SMART-WALL GRIP-PREP	METRO	CE PREP	36"W X 14"D CHROME FINISH W/ ST. STL. INLAYS AS NECESSARY	
	690C	1	SMART-WALL GRIP-PREP	METRO	CE PREP	48"W X 14"D CHROME FINISH W/ ST. STL. INLAYS AS NECESSARY	
	810A	2	24" DIA. ROUND TABLE	GRAND RAPIDS	SP-24-24-RD-30	LAMINATE: WILSONART - LOFT OAK, 7968-12 / PLYWOOD EDGE FINISH - APSEN / FINISH ON BASE - BLACK WRINKLE	
	810C	2	24" x 30" two-top (base included)	GRAND RAPIDS	SP-24-30-RT-30	LAMINATE: WILSONART - LOFT OAK, 7968-12 / PLYWOOD EDGE FINISH - APSEN / FINISH ON BASE - BLACK WRINKLE	
	810E	1	24" x 48" ADA table (bases included)	GRAND RAPIDS	SP-24-48-RT-24	LAMINATE: WILSONART - LOFT OAK, 7968-12 / PLYWOOD EDGE FINISH - APSEN / FINISH ON BASE - BLACK WRINKLE	
	810F	1	30" x 48" ADA table (bases included)	GRAND RAPIDS	SP-30-48-RT-30	LAMINATE: WILSONART - LOFT OAK, 7968-12 / PLYWOOD EDGE FINISH - APSEN / FINISH ON BASE - BLACK WRINKLE	
	810H	2	36" DIA. ROUND HIGH TABLE	GRAND RAPIDS	SP-36-36-RD-42	LAMINATE: WILSONART - LOFT OAK, 7968-12 / PLYWOOD EDGE FINISH - APSEN / FINISH ON BASE - BLACK WRINKLE	
	810I	1	HIGH COMMUNAL TABLE	GRAND RAPIDS	FNK-36-94-RTK-42	RACETRACK SHAPE - IPWFLAT EDGE / EDGE FINISH - ASPEN / METAL FINISH - COPPER BROWN	
	825A	3	(1) 59" BOOTH, (2) 47" BOOTHS	PLYMOLD	HORIZON	WILSONART LOFT OAK SEAT W/ ARCCOM STETSON MINK VINYL BACK	
	840A	12	CHAIR	GRAND RAPIDS	Sadie II 827	WOOD FINISH - ASPEN / METAL FINISH - COPPER BROWN	
	841A	12	BARSTOOL	GRAND RAPIDS	SADIE II 827BS-11	WOOD FINISH - ASPEN / METAL FINISH - COPPER BROWN	
	900	2	POS	RADIANT	P1220		
	902	3	RECEIPT PRINTER				EINSTEIN
	903	3	ORDERING MONITORS	KDS			
	905	1	BACK OFFICE SYSTEM	METRO	CC2435MGR		
	906	1	OFFICE PRINTER				EINSTEIN
	907	1	PC MONITOR AND KEYBOARD				EINSTEIN



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SHEET TITLE
EQUIPMENT SCHEDULE

SHEET
Q12
ORIGINAL SHEET SIZE 24" x 36"

12/16/2025 12:27:43 PM

Equipment Schedule

Image	Item	Count	Description	Manufacturer	Model	Comments	Provided by
	908	1	FILE CABINET - 2 DRAWER	ULINE	H-1914BL		EQ VENDOR
	910	1	SOUND SYSTEM	DMX		INSTALL BY ECOLAB	EINSTEIN
	911	1	OFFICE CHAIR	SAFCO	3395BV		EQ VENDOR
	912	1	COAT HOOK STRIP	BOBRICK	B-232X34		
	950	1	VENTED METAL LOCKER - 6 TIER	SALSBURY	76162	12" W X 12" D X 6' H	EQ VENDOR
	970	1	DVR & SHELF	EAGLE		12" W X 12" D X 6' H	EQ VENDOR
	982	1	DROP SAFE	WILSON SAFE	RH3020E		EQ VENDOR
	983	1	BRINKS BOX	BRINKS		BY OTHERS	
	992	1	MOP SINK	FIAT PRODUCTS	MSB 2424	24" W X 24" D	
	993	1	TANKLESS GAS WATER HEATER (SET OF 2)	RINNAI	RUC981-REU-KBC3237FFUD-US		
	996	1	CHEMICAL DISPENSING SYSTEM-MOP SINK	KAY CHEMICAL COMPANY	CLICK & CLEAN	INSTALL BY ECOLAB	EINSTEIN
	997	1	CHEMICAL DISPENSING SYSTEM-3 COMP	KAY CHEMICAL COMPANY		INSTALL BY ECOLAB	EINSTEIN

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EINSTEIN BROS BAGELS

410 NW CHIPMAN RD, TENANT A LEE'S SUMMIT, MO 64086

CSHQA

PERMIT SET

PROJECT	DATE
25154.000	12-11-2025
DRAWN	CHECKED
MDG	PS/JG

REVISED

SHEET TITLE

EQUIPMENT SCHEDULE

SHEET

Q13

ORIGINAL SHEET SIZE
24" x 36"

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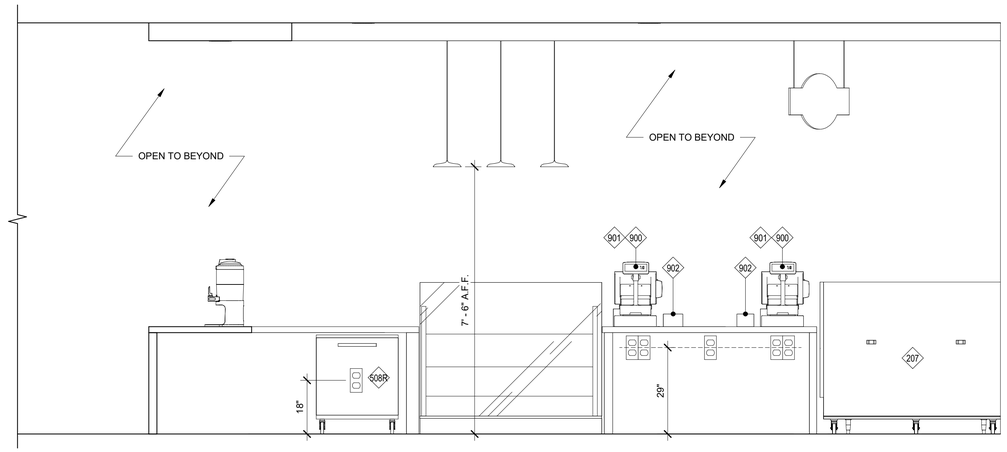
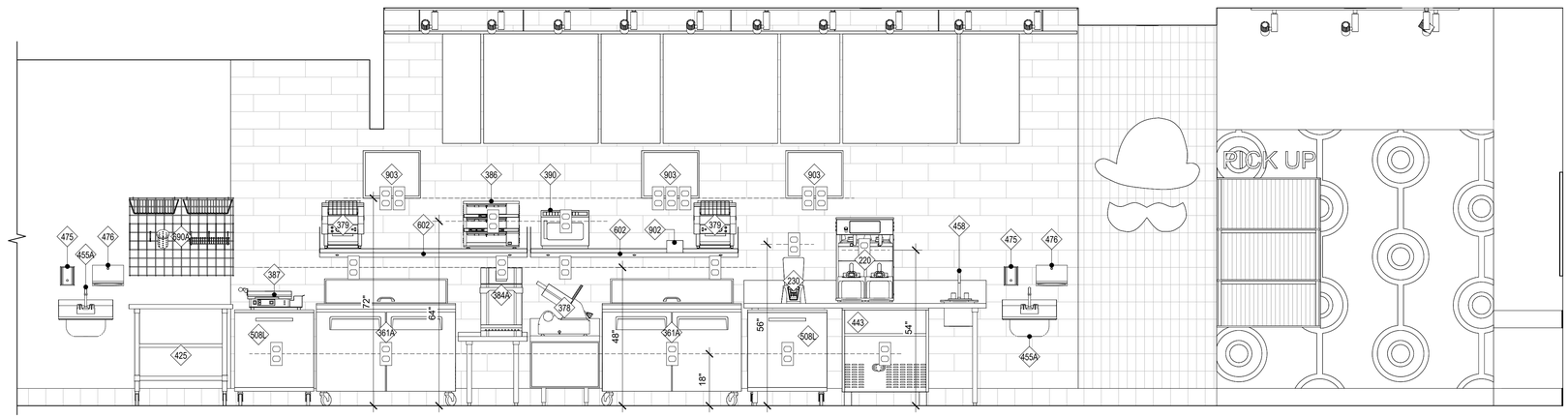


1 ELECTRICAL ELEVATION
1/2" = 1'-0"



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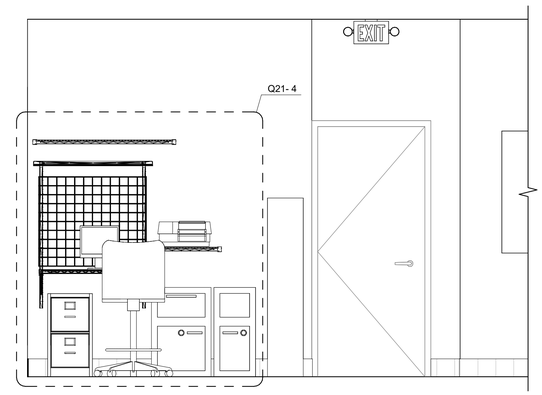
1/2" = 1'-0"



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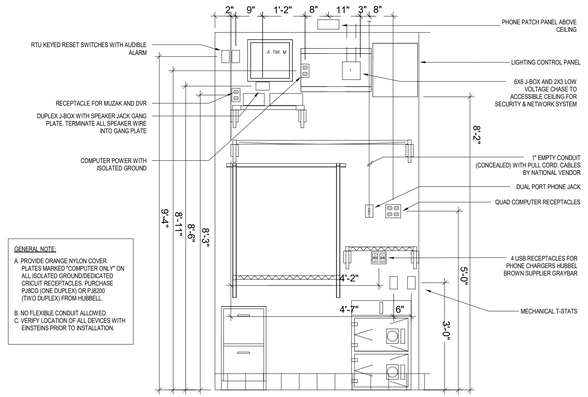
1/2" = 1'-0"



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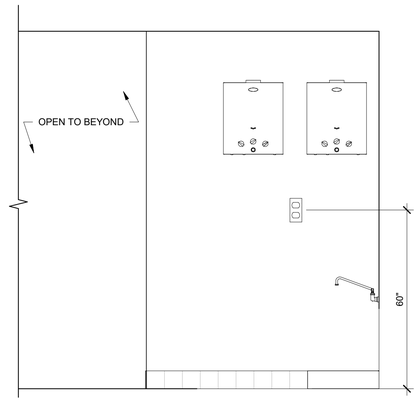

5 ELECTRICAL ELEVATION
1/2" = 1'-0"

12/16/2025 12:27:48 PM

STATE OF MISSOURI
STEVEN B. WAKEMAN
NUMBER A-2020020380
12-12-25
ARCHITECT

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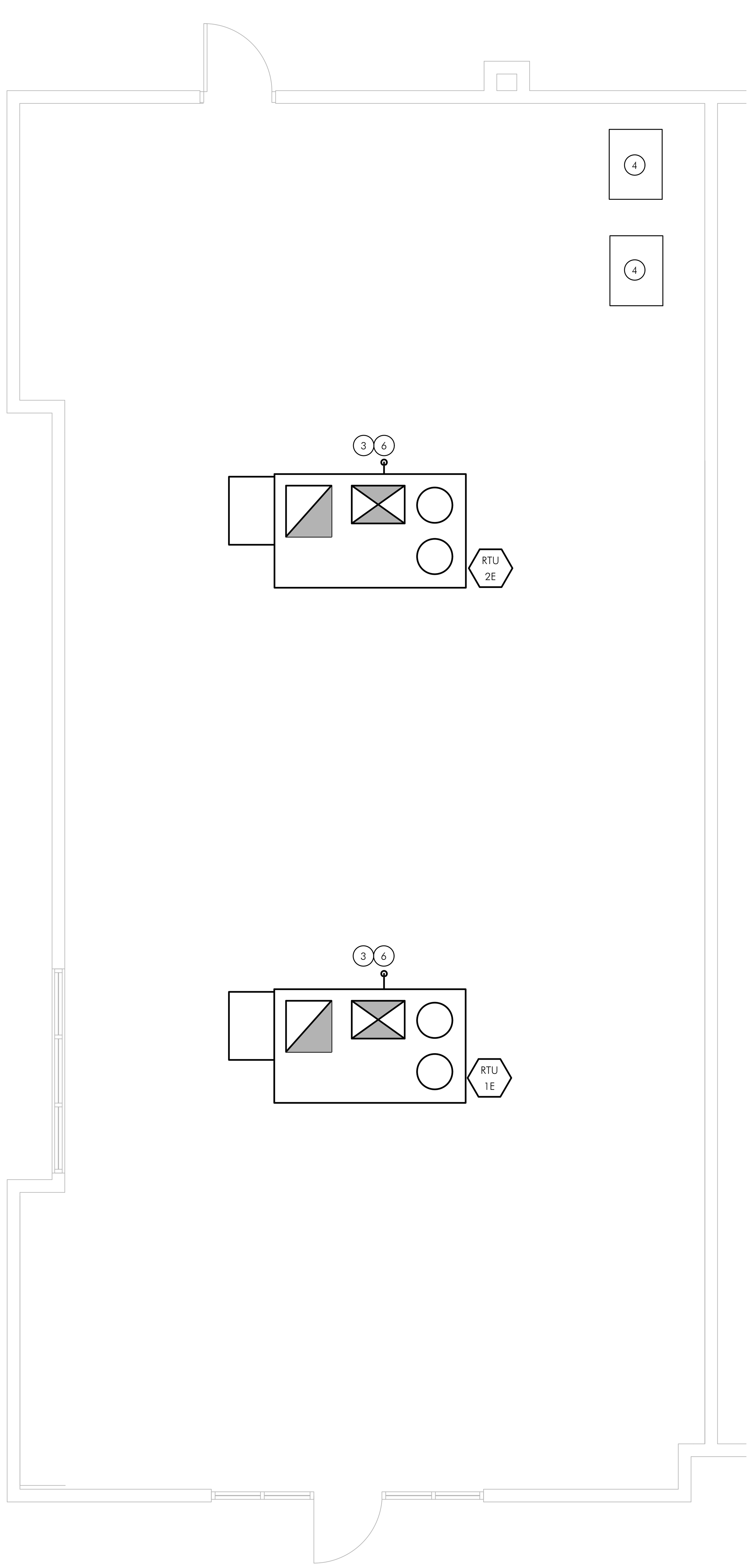
PERMIT SET

PROJECT	DATE
25154.000	12-11-2025
DRAWN	CHECKED
MDG	PS/JG

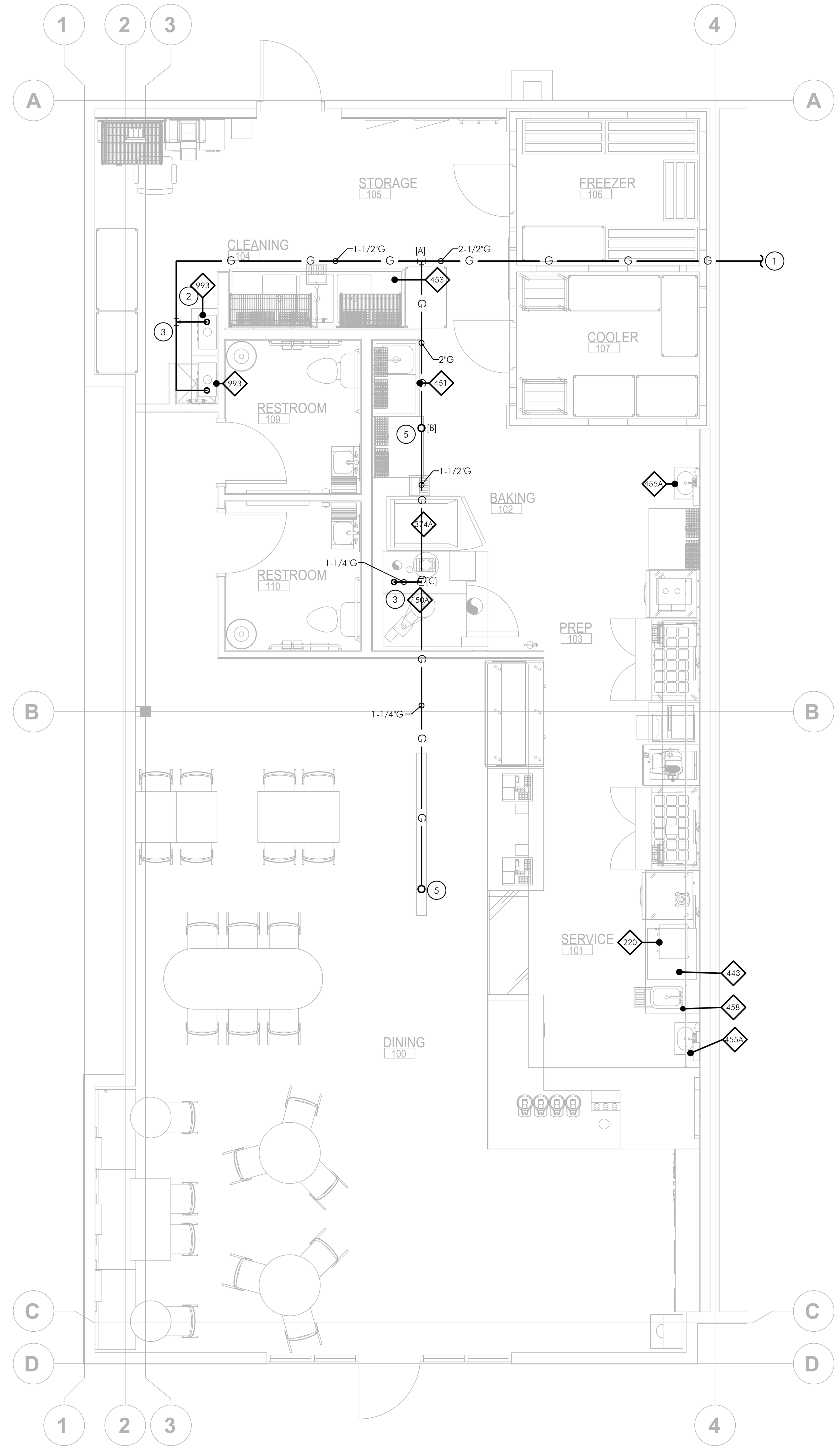
REVISED

SHEET TITLE
ELECTRICAL ELEVATIONS

SHEET
Q21
ORIGINAL SHEET SIZE
24" x 36"



2 G1.0 GAS ROOF PLAN
SCALE: 1/4"=1'-0"



1 G1.0 GAS PLAN
SCALE: 1/4"=1'-0"

GAS SHEET NOTES (#)

1. EXISTING GAS LINE CONTINUES TO EXISTING 2-1/2" GAS METER AT EXISTING MANIFOLD. GAS PRESSURE ASSUMED TO BE 7" W.C. INFORM ENGINEER IF PRESSURE IS NOT 7" W.C. FIELD VERIFY EXISTING CONDITIONS, FINAL LOCATIONS, ROUTING, GAS PRESSURE, AND SERVICE CAPACITY PRIOR TO ANY WORK. COORDINATE NEW METER INSTALLATION WITH UTILITIES, AND INSTALL IN ACCORDANCE TO THEIR STANDARDS, ALL APPLICABLE CODES, AND THE AHJ.
2. GAS PIPE TO NEW TANKLESS GAS WATER HEATERS. SEE DETAIL 1/P0.0.
3. PROVIDE GAS REGULATOR AHEAD OF EQUIPMENT AS NEEDED. REFER TO MANUFACTURERS INSTRUCTIONS FOR EQUIPMENT GAS PRESSURE REQUIREMENTS.
4. REMOTE CONDENSERS BY OTHERS. COORDINATE LOCATION WITH EQUIPMENT PROVIDER PRIOR TO ANY WORK. SHOWN FOR COORDINATION PURPOSES.
5. GAS PIPING UP TO EXISTING ROOFTOP UNIT ON ROOF. CONTRACTOR SHALL VERIFY LOCATION, SIZE AND ROUTING PRIOR TO ANY WORK.
6. GAS PIPING UP FROM BELOW. CONTRACTOR SHALL VERIFY LOCATION, SIZE AND ROUTING PRIOR TO ANY WORK.

GAS GENERAL NOTES

1. THIS DESIGN IS DIAGRAMMATICAL. REFER TO MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION MANUALS FOR SPECIFIC LOCATIONS AND INSTALLATION DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS.
2. ALL REUSED MATERIALS OR EQUIPMENT SHALL BE IN GOOD CONDITION AND THE SYSTEM SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND IN GOOD WORKING ORDER AT THE COMPLETION OF THE PROJECT.
3. DEDICATED CIRCUITS SHALL BE WIRE WITH DEDICATED GROUND AND NEUTRAL CONDUCTORS.

CONVERSION DATA:

SL =	14.7	PSIA
5000f t=	12.2	PSIA
1 PSI =	2.307	ftWC
1 PSI =	27.684	"WC
1" WC =	0.0361	PSI

ACTUAL METER Gas Pressure =	**7"WC =**	**0.2529**	**PSI**
MAX Press Drop =	**0.5"WC =**	**0.0181**	**PSI**
PRESSURE AT END OF LINE =	6.5"WC =	**0.2348**	**PSI**

INPUTS:

Local Barometric Pressure =		14.73	PSIA	**Converted Pressures:**
Initial Gas Pressure =	**P1 =**	**0.2529**	PSI =	7.00 "WC Initial Pressure at GAS METER
Pressure Drop MAX =	**P1 - P2 =**	**0.0181**	PSI =	0.50 "WC MAX Pressure Drop
Final Gas Pressure =	**P2 =**	**14.96**	PSI =	6.50 "WC Final Pressure P2 at Appliance
Specific Gravity =	**S =**	**0.60**	SG	STP is 60oF and 14.7 psia or 101.325 kPA
Factor for visc, density and temp =	**Cr =**	**0.6094**		(use 1.2462 for propane)
Viscosity of Gas=	**Z=**	**0.012**		(use .008 for propane)

Nominal Pipe Size "d"	(L) ft length (L)	(D) Minimum D	(Q) MBH	Description of piping section
2-1/2	170	2.098	909	GAS METER TO POINT [A]
1-1/2	170	1.534	400	POINT [A] TO [WH]
2	170	1.682	509	POINT [A] TO POINT [B]
1-1/4	170	1.132	180	POINT [B] TO RTU-2
1-1/2	170	1.424	329	POINT [B] TO POINT [C]
1-1/4	170	1.053	149	POINT [C] TO OVEN
1-1/4	170	1.132	180	POINT [C] TO RTU-1

STATE OF MISSOURI
JOHN P. TINSLEY
PE-2007008506
PROFESSIONAL ENGINEER
12/15/2025

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PROJECT 25154.000 25-0119	DATE 12-15-2025
DRAWN GWM	CHECKED JPT

REVISED

SHEET TITLE
GAS PLANS
(SEE PLUMBING & MECHANICAL SHEETS FOR SPECIFICATIONS)

SHEET
G1.0
ORIGINAL SHEET SIZE 24" x 36"

PLUMBING SPECIFICATIONS

1.1 SUMMARY: PROVIDE PLUMBING WHERE SHOWN ON THE DRAWINGS, AS SPECIFIED HEREIN, AND AS NEEDED FOR A COMPLETE AND PROPER INSTALLATION INCLUDING, BUT NOT NECESSARILY LIMITED TO:

DOMESTIC HOT AND COLD WATER PIPING SYSTEMS

DRAIN, WASTE, AND VENT SYSTEMS

PLUMBING FIXTURES AND TRIM AS SHOWN ON THE DRAWINGS

FUEL GAS PIPING SYSTEM

STORM DRAINAGE SYSTEMS

DOCUMENTS AFFECTING WORK OF THIS SECTION INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, AND SECTIONS IN DIVISION 1 OF THE ARCHITECTURAL SPECIFICATIONS.

1.2 SUBMITTALS: COMPLY WITH PERTINENT PROVISIONS OF DIVISION 1 AND THE ARCHITECTURAL SCOPE.

PRODUCT DATA: WITHIN 30 CALENDAR DAYS AFTER THE CONTRACTOR HAS RECEIVED THE OWNER'S NOTICE TO PROCEED, SUBMIT:

MATERIALS LIST OF ITEMS PROPOSED TO BE PROVIDED UNDER THIS SECTION

MANUFACTURER'S SPECIFICATIONS, CATALOG CUTS, AND OTHER DATA NEEDED TO PROVE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.

SHOP DRAWINGS AND OTHER DATA AS REQUIRED TO INDICATE METHOD OF INSTALLING AND ATTACHING EQUIPMENT, EXCEPT WHERE SUCH DETAILS ARE FULLY SHOWN ON THE DRAWINGS.

STERILIZATION CERTIFICATE: UPON COMPLETION OF DOMESTIC WATER PIPING SYSTEM, THE ADDED PORTION OF THE SYSTEM SHALL BE STERILIZED. UPON COMPLETION THE CONTRACTOR SHALL DELIVER TO THE ARCHITECT TWO (2) COPIES OF AN ACCEPTABLE 'CERTIFICATE OF PERFORMANCE' FOR THIS ACTIVITY.

UPON COMPLETION OF THE WORK OF THIS SECTION, DELIVER TO THE ARCHITECT FOUR (4) COPIES OF ALL SHOP DRAWINGS (EQUIPMENT AND FIXTURE SUBMITTALS), OPERATION AND MAINTENANCE MANUALS AND AS-BUILT (RECORD) DRAWINGS. ALL MANUALS SHALL INCLUDE A MAINTENANCE SCHEDULE FOR ALL REQUIRED EQUIPMENT (I.E. PUMPS, WATER FILTERS). ALL MANUALS SHALL BE COMPILED IN ACCORDANCE WITH THE PROVISIONS OF DIVISION 1 OF THESE SPECIFICATIONS.

1.3 QUALITY ASSURANCE: USE ADEQUATE NUMBERS OF SKILLED WORKERS WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK OF THIS SECTION.

CODES AND REGULATIONS: IN ADDITION TO COMPLYING WITH THE SPECIFIED REQUIREMENTS, COMPLY WITH THE PERTINENT REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION; INCLUDING THE INTERNATIONAL BUILDING, PLUMBING, FUEL GAS, AND ENERGY CONSERVATION CODES; AND ANY AMENDMENTS TO ABOVE CODES REQUIRED BY THE LOCAL AUTHORITIES. IN THE EVENT OF CONFLICT BETWEEN OR AMONG SPECIFIED REQUIREMENTS AND PERTINENT REGULATIONS, THE MORE STRINGENT REQUIREMENT WILL GOVERN WHEN SO DIRECTED BY THE ARCHITECT.

1.4 DELIVERY, STORAGE, AND HANDLING: COMPLY WITH THE PERTINENT PROVISIONS OF DIVISION 1.

1.5 GENERAL REQUIREMENTS: WHERE REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES. PRIOR TO FINAL ACCEPTANCE, FURNISH THE ARCHITECT/OWNER WITH CERTIFICATES OF INSPECTION AND APPROVALS BY LOCAL AUTHORITIES. BEFORE ACCEPTANCE AND FINAL PAYMENT, DEMONSTRATE THAT ALL APPARATUS ARE FUNCTIONING PROPERLY AND EFFICIENTLY. SYSTEM, MATERIAL, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE. REPLACE ALL DEFECTIVE WORKMANSHIP, EQUIPMENT AND MATERIALS WITHOUT ADDITIONAL CHARGES, INCLUDING REFRIGERANT THAT IS LOST DURING RELATED REPAIRS.

PART 2 - PRODUCTS

2.1 PIPE SCHEDULE:

DRAIN, WASTE, AND VENT SYSTEM: PVC PIPE, ASTM D 2665, SOLID-WALL DRAIN, WASTE AND VENT PIPING WITH PVC SOCKET FITTINGS COMPLYING WITH ASTM D 2665, SOCKET TYPE, MADE TO ASTM D 3311, DRAIN, WASTE, AND VENT PATTERNS. SCHEDULE 40 CAST IRON PIPING SHALL BE PROVIDED FOR ALL WASTE AND VENT PIPING WITHIN A RETURN OR SUPPLY AIR PLENUM.

WATER PIPING: ABOVE GROUND: PROVIDE TYPE 'L' HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS JOINED WITH LEAD FREE SOLDER. CROSS LINKED, HIGH DENSITY POLYETHYLENE (PEX) OR CPVC IS ACCEPTABLE AS AN APPROVED ALTERNATE WHERE ALLOWED BY CODE, APPROVED BY THE OWNER, AND ALLOWED BY THE AUTHORITY HAVING JURISDICTION AND INSTALLED PER MANUFACTURER REQUIREMENTS. BELOW GROUND: PROVIDE TYPE 'K' SOFT ANNEALED COPPER WITH NO SOLDERED JOINTS. WHERE ALTERNATES SUCH AS PEX OR CPVC IS USED THE OWNER MUST SPECIFICALLY AGREE TO IT IN WRITING. WHERE THERE IS A PLENUM CARE MUST BE TAKEN TO ENSURE THE INSTALLATION UTILIZES PLENUM RATED AND ACCEPTED MATERIALS AND INSTALLATION METHODS UTILIZE ONLY PLENUM RATED MATERIALS. WHEN USING PEX PROVIDE COLOR CODING BY USING BLUE FOR COLD WATER AND RED FOR HOT WATER PIPING.

INDIRECT DRAINS: PROVIDE TYPE 'L' COPPER WITH WROUGHT COPPER FITTINGS JOINED WITH 95/5 TIN-ANTIMONY OR LEAD FREE SOLDER. WHEN SIZE ALLOWS PROVIDE DWV TYPE FITTINGS. PROVIDE LINES FULL SIZE OF ANY EQUIPMENT CONNECTIONS.

NATURAL GAS PIPING: PROVIDE SHUT-OFF VALVE DOWNSTREAM OF AND AS CLOSE AS PRACTICAL TO EACH GAS METER. PROVIDE SCHEDULE 40 BLACK IRON PIPE WITH MALLEABLE IRON FITTINGS. PIPING 2" AND UNDER SHALL HAVE SCREWED FITTINGS, 2-1/2" AND LARGER, AND ALL CONCEALED GAS PIPING SHALL BE WELDED. VALVES UP TO 2" SHALL BE BRASS. PROVIDE DIRT LEG, SHUT-OFF VALVE, PRESSURE REDUCING VALVE, AND UNION AT EACH APPLIANCE CONNECTION. UNDERGROUND PIPING SHALL BE PROTECTED AGAINST CORROSION.

STORM DRAINAGE PIPING: HUBLESS CAST IRON SOIL PIPE. PITCH HORIZONTAL LEADERS AT 1/8" PER FOOT FALL IN DIRECTION OF FLOW UNLESS OTHERWISE NOTED.

2.2 MATERIALS: CAST IRON SOIL PIPE AND FITTINGS:

FOR COPPER PIPING, PROVIDE WROUGHT COPPER OR DWV TYPE FITTINGS FOR THE APPROPRIATE PIPING SYSTEM. ALL EXPOSED PIPING IN KITCHENS AND OTHER FOOD PREPARATION AREAS SHALL BE COPPER.

2.3 VALVES: GATE VALVES: EQUAL TO WATTS GV SERIES, BRONZE, 200-PSI WOG. GLOBE VALVES: EQUAL TO WATTS GLV SERIES, BRONZE, 200-PSI WOG. BALL VALVES: EQUAL TO WATTS B-600 SERIES, STANDARD PORT, BRONZE. 1/4" - 2" VALVES SHALL BE 600 PSI WOG. 2-1/2" - 4" SHALL BE 400 PSI WOG. THERMOSTATIC MIXING VALVES: EQUAL TO SYMMONS 8210CK, COMPLIANT WITH ASSE 1070, ASME 1017, CSA B125, TEMPERATURE TO NOT EXCEED 110°F AS PRESCRIBED PER ASSE REQUIREMENTS. TEMPERED WATER SHALL BE DELIVERED TO ALL LAVATORIES & HAND SINKS LOCATED IN FACILITIES PROVIDED FOR CUSTOMERS, PATRONS, AND VISITORS.

2.4 FLASHING: WHERE PIPES OF THIS SECTION PASS THROUGH THE ROOF, FLASH WITH SEMCO #1100-4 SEAMLESS 4 LB. FLASHING, WITH STEEL REINFORCED 'VARI-PITCH' BOOT AND CAST IRON COUNTER FLASHING SLEEVE.

2.5 PIPE HANGERS:

WATER PIPING: PROVIDE FEE AND MASON #212 SPLIT RING HANGERS WITH SUPPORTING RODS. PROVIDE SEMCO 'TRISOLATORS'.

SOIL AND WASTE PIPING: PROVIDE FEE AND MASON #212 ADJUSTABLE RING HANGERS WITH SUPPORTING RODS. USE FEE AND MASON #212 RISER CLAMPS AS REQUIRED.

2.6 CLEANOUTS: ZURN Z-1400 'LEVEL-TROL' ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY, WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, AND ROUND SCORIATED SECURED TOP ADJUSTABLE TO THE FINISHED FLOOR. FINISHED FLOORS: PROVIDE ZURN ZN-1400 WITH APPROPRIATE SUFFIX FOR FLOOR FINISH. FLOORS WITH WATERPROOFING MEMBRANE: PROVIDE 'FLUSH-WITH-FLOOR' TYPE CLEANOUTS, WITH ADJUSTABLE WATERTIGHT COVERS AND INTEGRAL ANCHORING FLANGE WITH CLAMPING COLLAR. FINISHED WALLS: PROVIDE ZURN ZS-1469 WITH STAINLESS STEEL ACCESS PLATE AND SCREW.

2.7 TRAPS: FOR LAVATORIES AND SINKS, EXCEPT SERVICE SINKS, PROVIDE LOS ANGELES PATTERN CAST BRASS TRAPS WITH BRASS NUTS.

2.8 WATER HAMMER ARRESTORS: PROVIDE WHERE REQUIRED BY CODE.

2.9 FIXTURES AND EQUIPMENT: PROVIDE PLUMBING FIXTURES, TRIM, AND EQUIPMENT AS INDICATED ON THE PLUMBING PLANS.

2.10 INSULATION: INSULATE HOT, COLD, AND RECIRCULATED HOT WATER PIPING FROM SUPPLYING LOCATION/DEVICE TO THE TERMINATION OF THE WATER FIXTURE SUPPLY PIPE WITH A MINIMUM OF 1-IN. THICK FIBERGLASS INSULATION WITH PLENUM RATED JACKET. INSULATION SHALL BE EQUAL TO JOHNS MANVILLE MICO-LOK, WITH A MAXIMUM CONDUCTIVITY OF 0.27 BTU PER IN/HR * SF * degF. COLD WATER PIPING INSULATION SHALL HAVE VAPOR BARRIER. AT ALL HANGER AND SUPPORT LOCATIONS, PROVIDE 8-IN. LONG, 20 GAUGE GALVANIZED IRON INSULATION GUARDS. INSULATION AT THESE LOCATIONS SHALL BE RIGID. IECC TABLE 403.11.3

PROTECT EXPOSED PIPING FOR ALL ADA ACCESSIBLE FIXTURES WITH INSULATION EQUAL TO TRU BRO.

STORM DRAINAGE PIPING SHALL BE INSULATED WITH 1-1/2" THICK FIBERGLASS INSULATION WITH VAPOR BARRIER AND PLENUM RATED PVC JACKET. INSULATION SYSTEM SHALL BE EQUAL TO JOHNS MANVILLE MICRO-LOK, WITH ZESTON PVC JACKETING, 30 MIL THICKNESS. VAPOR BARRIER SHALL BE PROVIDED WITH A MASTIC COMPATIBLE WITH PVC, AND TWO LAYERS OF HI-LO TEMP INSULATION INSERTS SHALL BE UTILIZED TO MAINTAIN THE INTEGRITY OF THE VAPOR BARRIER. INSERTS AND JACKET SHALL MEET ASTM E84 FOR MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED RATING OF 25/50. EXPOSED VERTICAL STORM DRAINAGE PIPING SHALL NOT BE INSULATED.

2.11 SLEEVES: WHERE PIPES PASS THROUGH CONCRETE, PROVIDE 'SPERZEL' RUSTPROOF 'CRETE-SLEEVE' OF THE SIZE REQUIRED. WHERE PIPES PASS THROUGH FIRE RATED PARTITIONS AS DESIGNATED ON THE ARCHITECTURAL PLANS, PROVIDE FIRE SEALS AROUND PIPES, WHICH ARE EITHER UL LISTED OR FM APPROVED.

2.12 OTHER MATERIALS: PROVIDE OTHER MATERIALS NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AS SELECTED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE ARCHITECT.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS: EXAMINE THE AREAS AND CONDITIONS UNDER WHICH WORK OF THIS SECTION WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.

3.2 INSTALLATION OF PIPING AND EQUIPMENT:

PROCEED AS RAPIDLY AS THE BUILDING CONSTRUCTION WILL PERMIT. THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. CUT PIPE ACCURATELY, AND WORK INTO PLACE WITHOUT SPRINGING OR FORCING, PROPERLY CLEARING WINDOWS, DOORS, AND OTHER OPENINGS. EXCESSIVE CUTTING OR OTHER WEAKENING OF THE BUILDING WILL NOT BE PERMITTED. SHOW NO TOOL MARKS OR THREADS ON EXPOSED PLATED, POLISHED, OR ENAMELED CONNECTIONS FROM FIXTURES. TAPE ALL FINISHED SURFACES TO PREVENT DAMAGE DURING CONSTRUCTION. MAKE CHANGES IN DIRECTION WITH FITTINGS; MAKE CHANGES IN MAIN SIZES WITH ECCENTRIC REDUCING FITTINGS. UNLESS OTHERWISE NOTED, INSTALL WATER SUPPLY AND RETURN PIPING WITH FLAT SIDE OF ECCENTRIC FITTINGS FACING UP. RUN HORIZONTAL SANITARY PIPING AT A UNIFORM GRADE OF 1/4" PER FOOT, UNLESS OTHERWISE NOTED. RUN HORIZONTAL WATER PIPING WITH AN ADEQUATE PITCH UPWARDS IN DIRECTION OF FLOW TO ALLOW COMPLETE DRAINAGE. PROVIDE SUFFICIENT SWING JOINTS, BALL JOINTS, EXPANSION LOOPS, AND DEVICES NECESSARY FOR A FLEXIBLE PIPING SYSTEM, EVEN IF NOT SPECIFICALLY SHOWN ON THE DRAWINGS. SECURELY BOLT ALL EQUIPMENT, ISOLATORS, HANGERS, AND SIMILAR ITEMS IN PLACE. SUPPORT EACH ITEM INDEPENDENTLY FROM THE STRUCTURE. DO NOT USE WIRE FOR HANGING OR STRAPPING PIPES. PROVIDE COMPLETE DIELECTRIC ISOLATION BETWEEN FERROUS AND NONFERROUS METALS. FOR INSULATED PIPE, PROVIDE SLEEVES OF ADEQUATE SIZE TO ACCOMMODATE THE FULL THICKNESS OF PIPE COVERING, WITH CLEARANCE FOR PACKING AND CAULKING. CAULK THE SPACE BETWEEN SLEEVE AND PIPE OR PIPE COVERING, USING A NON-COMBUSTIBLE, PERMANENTLY PLASTIC, WATERPROOF, NON-STAINING COMPOUND WHICH LEAVES A SMOOTH FINISHED APPEARANCE, OR PACK WITH NON-COMBUSTIBLE, NON-ASBESTOS COTTON, ROPE, OR FIBERGLASS TO WITHIN 1/2" OF BOTH WALL FACES, AND PROVIDE THE WATERPROOF COMPOUND DESCRIBED ABOVE.

3.3 FINISH AND ESCUTCHEONS: SMOOTH UP ROUGH EDGES AROUND SLEEVES WITH PLASTER OR SPACKLING COMPOUND. PROVIDE 1" WIDE CHROME OR NICKEL PLATED ESCUTCHEONS ON ALL PIPES EXPOSED TO VIEW WHERE PASSING THROUGH WALLS, FLOORS, PARTITIONS, CEILINGS, OR SIMILAR LOCATIONS. SIZE THE ESCUTCHEONS TO FIT PIPE AND COVERING. HOLD ESCUTCHEONS IN PLACE WITH SET SCREW.

3.4 CLEANOUTS: SECURE THE ARCHITECT'S APPROVAL OF LOCATIONS FOR CLEANOUTS IN FINISHED AREAS PRIOR TO INSTALLATION. PROVIDE CLEANOUTS OF SAME NOMINAL SIZE AS THE PIPES THEY SERVE; EXCEPT WHERE CLEANOUTS ARE REQUIRED IN PIPES LARGER THAN 4", PROVIDE 4" CLEANOUTS. MAKE CLEANOUTS ACCESSIBLE. AFTER PRESSURE TESTS ARE MADE AND APPROVED, THOROUGHLY GRAPHITE THE CLEANOUT THREADS. PROVIDE CLEANOUTS IN ALL LOCATIONS (NOT NECESSARILY INDICATED ON DRAWINGS) REQUIRED BY THE APPLICABLE CODES.

3.5 VALVES: PROVIDE VALVES IN DOMESTIC WATER SUPPLY SYSTEMS. LOCATE AND ARRANGE SO AS TO GIVE COMPLETE REGULATION OF FIXTURES. PROVIDE VALVES IN AT LEAST THE FOLLOWING LOCATIONS: IN BRANCHES AND/OR HEADERS OF WATER PIPING SERVING A GROUP OF FIXTURES; FOR SHUTOFF OF BRANCH MAINS; FOR FLUSHING AND STERILIZING THE SYSTEM; WHERE SHOWN ON THE DRAWINGS. LOCATE VALVES FOR EASY ACCESSIBILITY AND MAINTENANCE

3.6 WATER HAMMER ARRESTORS: PROVIDE WATER HAMMER ARRESTORS ON HOT WATER LINES AND COLD WATER LINES. INSTALL IN UPRIGHT POSITION AT ALL QUICK CLOSING VALVES, SOLENOIDS, ISOLATED PLUMBING FIXTURES, AND SUPPLY HEADERS AT PLUMBING FIXTURE GROUPS. LOCATE AND SIZE IN ACCORDANCE WITH THE PLUMBING AND DRAINAGE INSTITUTE STANDARD WH-201. INSTALL WATER HAMMER ARRESTORS BEHIND ACCESS PANELS.

3.7 BACKFLOW PREVENTION: PROTECT PLUMBING FIXTURES AND FAUCETS AGAINST POSSIBLE BACK-SIPHONAGE. ARRANGE FOR TESTING OF BACKFLOW DEVICES AS REQUIRED BY THE GOVERNMENTAL AGENCY HAVING JURISDICTION.

3.8 PLUMBING FIXTURE INSTALLATION: SET FIXTURES LEVEL AND IN PROPER ALIGNMENT WITH RESPECT TO WALLS AND FLOORS AND WITH FIXTURES EQUALLY SPACED. PROVIDE SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES AND WITH EACH OTHER. PROVIDE FLUSH VALVES IN ALIGNMENT WITH THE FIXTURE, WITHOUT VERTICAL OR HORIZONTAL OFFSETS. GROUT WALL AND FLOOR MOUNTED FIXTURES WATERTIGHT WHERE THE FIXTURES ARE IN CONTACT WITH WALLS AND FLOORS.

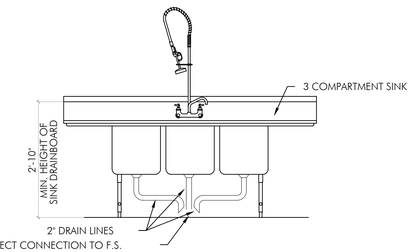
3.9 DISINFECTION OF POTABLE WATER POTABLE WATER SYSTEMS SHALL BE PURGED OF DELETERIOUS MATTER AN DISINFECTED PRIOR TO UTILIZATION. THE METHOD TO BE FOLLOWED SHALL BE THAT PRESCRIBED BY THE HEALTH AUTHORITY OR WATER PRUVEYOR HAVING JURISDICTION.

3.10 OTHER TESTING AND ADJUSTING: PROVIDE PERSONNEL AND EQUIPMENT, AND ARRANGE FOR AND PAY THE COSTS OF ALL REQUIRED TESTS AND INSPECTIONS REQUIRED BY GOVERNMENTAL AGENCIES HAVING JURISDICTION. WHERE TESTS SHOW MATERIALS OR WORKMANSHIP TO BE DEFICIENT, REPLACE OR REPAIR AS NECESSARY, AND REPEAT THE TESTS UNTIL THE SPECIFIED STANDARDS ARE ACHIEVED. ADJUST THE SYSTEM TO OPTIMUM STANDARDS OF OPERATION.

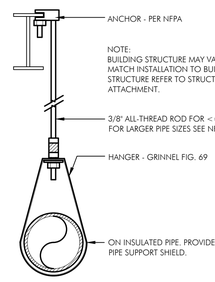
CODE COMPLIANCE STATEMENT

THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES:

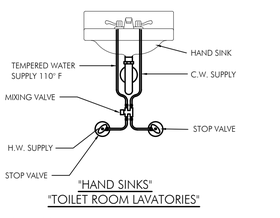
- INTERNATIONAL PLUMBING CODE : 2018
- INTERNATIONAL ENERGY CONSERVATION CODE (IECC) : 2018



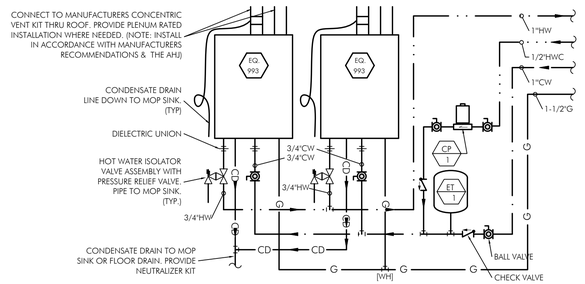
3 P0.0 — 3-COMPARTMENT SINK DETAIL
SCALE: NTS



4 P0.0 — PIPE HANGER DETAIL
SCALE: NONE



2 P0.0 — TYP. MIXING VALVE DETAIL
SCALE: NONE



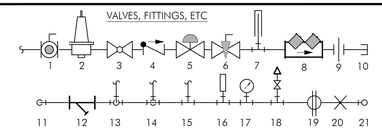
1 P0.0 — WATER HEATER DETAIL
SCALE: NONE

PLUMBING FIXTURE SCHEDULE

MARK(S)	DESCRIPTION	MANUFACTURER / MODEL NO.	CW	HW	WASTE	VENT	REMARKS
WATER HEATERS, EXPANSION TANKS, RECIRCULATION PUMPS							
ET-1	EXPANSION TANK	Amtrol ST-5-C	1"				2.1 gallon, 0.43 Acceptance Factor, adjust pre-charge to equal incoming pressure, rated for maximum 150 PSIG & 210°F, NSF bladder, 5 yr. warranty
993	WATER HEATER	Rinnai CX199iN-REU-NB3237FFC-US	3/4"	3/4"	-	-	15,200 to 199,900 BTU input, 4.8GPM @ 80F rise. 98% efficient, low Nox, 50lbs. Provide with 2"/4" manufacturer's concentric vent kit. For vent runs less than 75 ft, use manufacturer's 3"/5" concentric vent kit for runs up to 150 ft.
CP-1	RECIRCULATION PUMP	Taco Model 006	3/4"				Cartridge circulator. Balance to provide 2.5 GPM against 7 feet of H20. Time clock to control during occupied hours. Provide Taco temperature controlled aquastat to control pump.
TOILETS AND URINALS							
WC	WATER CLOSET, ADA	KOHLER K-4199/K4436/K-4636-0	1/2"	-	3"	2"	Elongated bowl, ADA compliant, floor-mount, 1.28 gpf
LAVATORIES							
LW	LAVATORY, WALL-MOUNT	KOHLER GREENWICH K-2032	1/2"	1/2"	1-1/2"	1-1/2"	ADA compliant, wall mounted lavatory. American Standard 6053.105 faucet. ASSE 1070 point of use thermostatic mixing valve.
FLOOR DRAINS & SINKS, TRENCH DRAINS, PRIMERS							
FD	FLOOR DRAIN	Zurn ZB-1400	-	-	2"	1-1/2"	Deep seal trap, round top, medium duty grate. Install "waterless" trap primer equal to Prosset trap guard with elastomeric memory material in all floor drains. Follow all Manufacturer instructions for installation of the trap guard.
FS	FLOOR SINK	Zurn model Z1901	-	-	3"	2"	12"x12"x8" deep cast iron body, medium duty grate, acid resisting porcelain enamel interior, deep seal trap.
HD	HUB DRAIN	Zurn model Z1870	-	-	2"	1-1/2"	3" inlet type 304 stainless steel corroaion resistant body, deep seal trap.
SINKS							
HS	HAND SINK	Eagle HAS-10-F-LRS	1/2"	1/2"	1-1/2"	1-1/2"	Wall mount with gooseneck faucet, side splashes, and basket drain.
MS	MOP SINK	Fiat model TTB 2424	1/2"	1/2"	3"	1-1/2"	24" X 24" terrazzo neacorner floor mount sink. Fiat model 830AA utility faucet w/ vacuum breaker and pail hook deep seal trap, acid-resist interior and grate, cast iron.
SK-1	GLASS FILLER / DUMP SINK COMBO	Regency 600UMB11020	1/2"		INDIRECT	--	Undermount 10" X 14" X 9.5" bowl with T&S Model B-1225 cold water faucet. Quarter turn Elterna Cartridge with spring check and forearm hande with color coded index, ADA compliant, ANSI A117.1 certified.
SK-2	1-COMPARTMENT SINK	Eagle 414-12-24L	3/4"	3/4"	INDIRECT	--	20" X 16"X 13.5" bowl & 24" drain board. T&S B-0231 faucet.
SK-3	3-COMPARTMENT SINK	Eagle S16-20-3-18	3/4"	3/4"	2"	1-1/2"	Stainless steel 20" X 20" X 14" bowls & 18" drain boards. T&S B-0129-VB pre-rinse with B-1057 add-a-faucet & 5F-8WLX10 10" swivel nozzle.
MISCELLANEOUS							
WF-1	WATER FILTER SYSTEM	3M ICE 129-S	3/8"	-	-	-	Ice machine water filter.
WF-2	WATER FILTER SYSTEM	Aqua Pure BREW120-MS	3/4"	-	-	-	Coffee & espresso water filter.
BP-1	BACKFLOW PREVENTER	Watts SD-3	1/2"	-	-	-	Provide ahead of all beverage related fixtures, i.e. tea brewer, soda machine, etc. ASSE 1022 compliant.
MXV	MIXING VALVE	Symmons 8210CK	3/8"	3/8"	-	-	Anti-scald mixing valve, ASSE 1070, 3/8" compression connections & integral chack valves, set to 110 °F, Min. flow rate 0.25GPM

PLUMBING LEGEND

VALVES, FITTINGS, ETC



1. BRONZE/STAINLESS BALL VALVE
2. PRV (PRESSURE REDU VL)
3. BALANCE VALVE W/MEMORY
4. BRONZE CHECK VALVE
5. BRONZE CONTROL VALVE
6. AGA LISTED GAS COCK
7. 9"THERMOMETER ±1%
8. RPBP (REDUCED PRESS BACKFLOW PREVENTER) FEBCO 825Y OR EQUAL
9. BRONZE UNION
10. END CAP
11. ELBOW DOWN
12. BRONZE STRAINER
13. TOP T CONNECTION
14. BOTTOM T CONNECTION
15. SIDE T CONNECTION
16. SHOCK ABSORBER
17. PRESSURE GAGE
18. MANUAL AIR VENT
19. CIRCUIT SETTER
20. PIPE ANCHOR
21. ELBOW UP

SYMBOL	ABBREV.	DESCRIPTION
CW	CW	COLD WATER
HW	HW	HOT WATER
HWC	HWC	HOT WATER CIRCULATION
FW	FW	FILTERED WATER
TW	TW	TEMPERED WATER
SS	SS	SANITARY SEWER
GW	GW	GREASY WASTE
SO	SO	SAND/OIL WASTE
ST	ST	STORM SEWER
CD	CD	CONDENSATE DRAIN
(E)SS	(E)SS	EXISTING SANITARY SEWER
(E)GW	(E)GW	EXISTING GREASY WASTE
V	V	WASTE VENT
G	G	NATURAL GAS
(E)G	(E)G	EXISTING NATURAL GAS
HWS	HWS	HOT WATER SUPPLY, HYDRONIC
HWR	HWR	HOT WATER RETURN, HYDRONIC
	CWS	COLD WATER SUPPLY, HYDRONIC
	CWR	COLD WATER RETURN, HYDRONIC
	IDW	INDIRECT WASTE LINE
F	F	FIRE LINE
CA	CA	COMPRESSED AIR
O2	O2	OXYGEN LINE
CO2	CO2	CARBON DIOXIDE LINE
N	N	NITROGEN LINE
NO2	NO2	NITROUS OXIDE LINE
DV	DV	COLD WATER RETURN, HYDRONIC

AFF	ABOVE FINISH FLOOR	COTG	CLEANOUT TO GRADE
(E)	EXISTING. VERIFY LOCATION, SIZE, AND CAPACITY.	RD	ROOF DRAIN
TDL	TOTAL DEVELOPED LENGTH	FD	FLOOR DRAIN
	CONNECT NEW TO EXISTING	VTR	VENT THRU ROOF

SCOPE OF WORK:

1. PROVIDE AND INSTALL NEW PLUMBING EQUIPMENT.
2. COORDINATE WITH KITCHEN EQUIPMENT PROVIDER FOR PLUMBING EQUIPMENT AND FINAL REQUIREMENTS.
3. CONNECT WATER, GREASY AND SANITARY WASTE, AND VENT LINES TO EXISTING AS REQUIRED/SHOWN.
4. PROVIDE AND INSTALL TWO (2) NEW INSTANTANEOUS GAS-FIRED WATER HEATERS AS SHOWN.

Calculator for Water Demand

Fixture Type	Occupancy	Type of Control	WSFU	Qty	Total
Kitchen sink	Hotel, restaurant	Faucet	3	3	9
Lavatory	Public	Faucet	2	4	8
Service sink	Offices, etc.	Faucet	3	1	3
Water closet	Public	Flush Tank	5	1	5
Kitchen Misc. 3/8			2	1	2
Kitchen Misc. 1/2			3	0	3
Kitchen Misc. 3/4			5	1	5
Total:			35.0	WSFU	24.9 GPM

Total Developed Length (Ft.):	194
Proposed Pressure (PSI):	50
Elevation Rise (FT):	10
Meter Loss (PSI):	5
Backflow Preventer Loss (PSI):	10
Friction Loss Pressure (PSI):	5.66
Max Allow Friction Loss(PSI/100FT):	7.82
Water Flow Velocity (FPS):	7
Calc Friction Head Loss (PSI/100FT):	6
Min. Meter Pipe Size (IN.):	1
Min. Distribution Pipe Size (IN.):	1-1/4

Note: Based upon Appendix E of the IPC.

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12/15/2025

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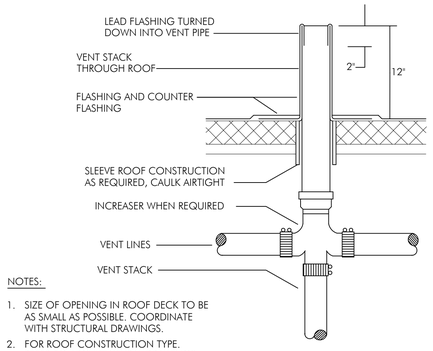
PROJECT 25154.000 25-0119 | DATE 12-15-2025
DRAWN GWM | CHECKED JPT
REVISED

SHEET TITLE
PLUMBING NOTES & SCHEDULES

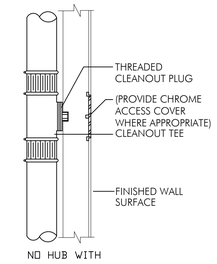
SHEET
P0.0
ORIGINAL SHEET SIZE 24" x 36"



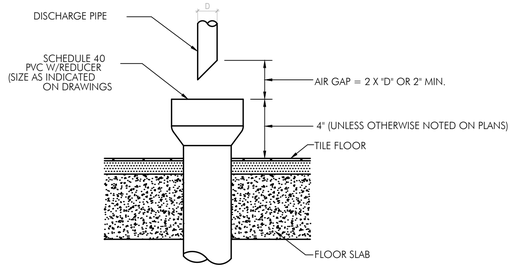
NOTES:

1. SIZE OF OPENING IN ROOF DECK TO BE AS SMALL AS POSSIBLE. COORDINATE WITH STRUCTURAL DRAWINGS.
2. FOR ROOF CONSTRUCTION TYPE. REFER TO ARCHITECTURAL DRAWINGS.
3. INCREASE VENT LINE BY ONE PIPE SIZE BEFORE PENETRATING ROOF.

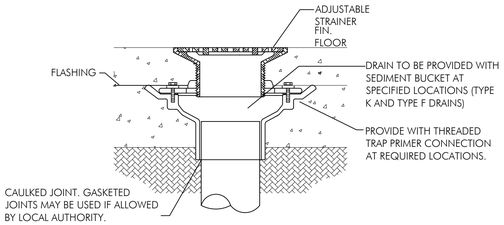
4 / P0.1 VENT STACK PENETRATION
SCALE: NTS



3 / P0.1 TYPICAL WALL CLEANOUT
SCALE: NTS

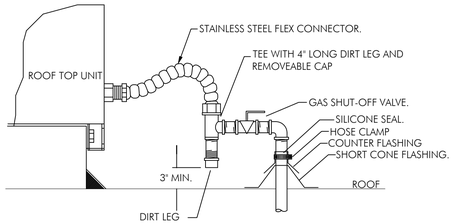


2 / P0.1 AIR GAP DETAIL
SCALE: NTS

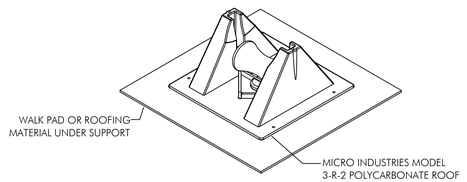


1 / P0.1 FLOOR DRAIN
SCALE: NTS

5 / P0.1 PIPE INSULATION DETAIL
SCALE: NTS



6 / P0.1 GAS PIPE CONNECTION
SCALE: NTS



7 / P0.1 GAS ROOFTOP SUPPORT
SCALE: NTS

8 / P0.1 GAS ROOF PENETRATION
SCALE: NTS

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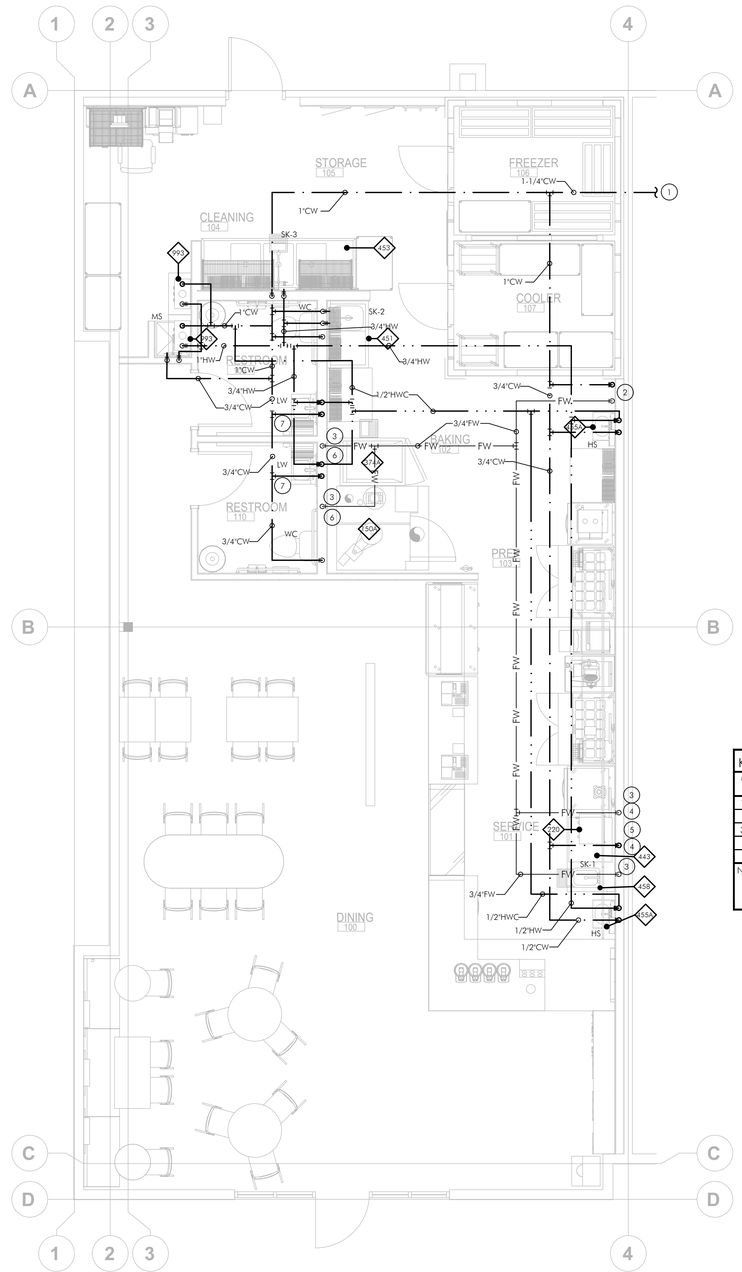
PROJECT	DATE
25154.000 25-0119	12-15-2025
DRAWN	CHECKED
GWM	JPT

REVISED

SHEET TITLE
PLUMBING DETAILS

SHEET
P0.1
ORIGINAL SHEET SIZE 24" x 36"



1 P1.0 WATER PLAN

SCALE: 1/4"=1'-0"

PLUMBING GENERAL NOTES

1. THIS DESIGN IS DIAGRAMMATICAL. REFER TO MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION MANUALS FOR SPECIFIC LOCATIONS AND INSTALLATION DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS.
2. ALL REUSED MATERIALS OR EQUIPMENT SHALL BE IN GOOD CONDITION AND THE SYSTEM SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND IN GOOD WORKING ORDER AT THE COMPLETION OF THE PROJECT.
3. PROVIDE NEW HOT WATER RE-CIRCULATION LINES TO ANY NEW FIXTURE REQUIRING HOT WATER.
4. HOT WATER RE-CIRCULATION LINES SHALL CONNECT NO MORE THAN 6" FROM END USE FIXTURE, SUCH AS A LAVATORY, PER IECC REQUIREMENTS.

PLUMBING SHEET NOTES (#)

1. CONNECT NEW 1-1/4" CW LINE TO EXISTING 1-1/2" CW STUB IN SPACE. PROVIDE WATER METER WITH REMOTE READ-OUT IF NEEDED. COORDINATE WITH LANDLORD ON REQUIREMENTS PRIOR TO ANY WORK. VERIFY EXISTING CONDITIONS, FINAL LOCATIONS, ROUTING AND AVAILABLE CAPACITY PRIOR TO ANY WORK.
2. WATER FILTER WF-2 TO SERVE KITCHEN EQUIPMENT, INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, ALL APPLICABLE CODES AND THE AHJ.
3. FILTERED WATER LINE DOWN IN WALL TO SERVE APPLIANCES/EQUIPMENT. PROVIDE ALL ACCESSORIES AS PER MANUFACTURERS INSTALLATION GUIDELINES. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, ALL APPLICABLE CODES AND THE AHJ. FIELD VERIFY EXISTING CONDITIONS, FINAL LOCATIONS, MOUNTING HEIGHT, AND EQUIPMENT REQUIREMENTS PRIOR TO ANY WORK.
4. PROVIDE DOUBLE CHECK VALVE, BP-1, AHEAD OF ICE/BEVERAGE EQUIPMENT.
5. WATER FILTER WF-1 TO SERVE UNDERCOUNTER ICE MACHINE, INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, ALL APPLICABLE CODES AND THE AHJ.
6. CONTRACTOR TO PROVIDE PRESSURE REDUCER AHEAD OF OVEN CONNECTION TO REDUCE PRESSURE TO 20-30 PSI. VERIFY REQUIREMENTS, FINAL LOCATIONS AND MOUNTING HEIGHT, PRIOR TO WORK. INSTALL IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS, ALL APPLICABLE CODES AND THE AHJ.
7. CONTRACTOR SHALL CONNECT HOT WATER CIRCULATION PIPING WITHIN 2 FEET OF LAVATORY HOT WATER CONNECTION.

KITCHEN EQUIPMENT PLUMBING CONNECTION SCHEDULE

Mark	Qty	Description	Water Connections			Drain		Gas Connections		Notes
			CW	HW	FW	DD	ID	Size	MBH	
150A	1	Bagel Oven	--	--	1/4"	--	1"	--	149	1
220	1	Coffee Brewer	--	--	3/8"	--	--	--	--	1
374A	1	Proofer	--	--	1/2"	--	1/2"	--	--	1
443	1	Ice Machine, Freestanding	--	--	1/2"	--	3/4"	--	--	1
993	2	Water Heater	1-1/4"	1-1/4"	--	--	--	--	200	1

Note:
1. Drain to floor sink.
2. Verify - location TBD.
3. Verify by others.
4. Verify w/ cutsheet
5. See plumbing fixture schedule

TANKLESS WATER HEATER CALCULATION

FIXTURE TYPE	QTY.	HOT WATER USAGE (GPM)	HOT WATER DEMAND	
3-COMP SINK	1	2.0	2.0	
1-COMP SINK	2	1.0	2.0	
LAV OR HS	4	0.5	2.0	
MOP SINK	1	2.0	2.0	
		Total Hot Water Demand (GPM)	8.00	
		Adjustment Factor	1.03	
Make/Model		**Maximum Demand**	**8.24**	GPM
Rinnai - CX199i		Manufacturer's Flow Rate	4.5	GPM
		Number of Units	**1.8**	UNITS
	Water Heater Efficiency	Location Elevation (ft)	Temp. Rise (°F)*	
	98%	744	86	

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REVISED

SHEET TITLE

PLUMBING WATER PLANS

SHEET

P1.0

ORIGINAL SHEET SIZE
24" x 36"

KITCHEN EQUIPMENT PLUMBING CONNECTION SCHEDULE

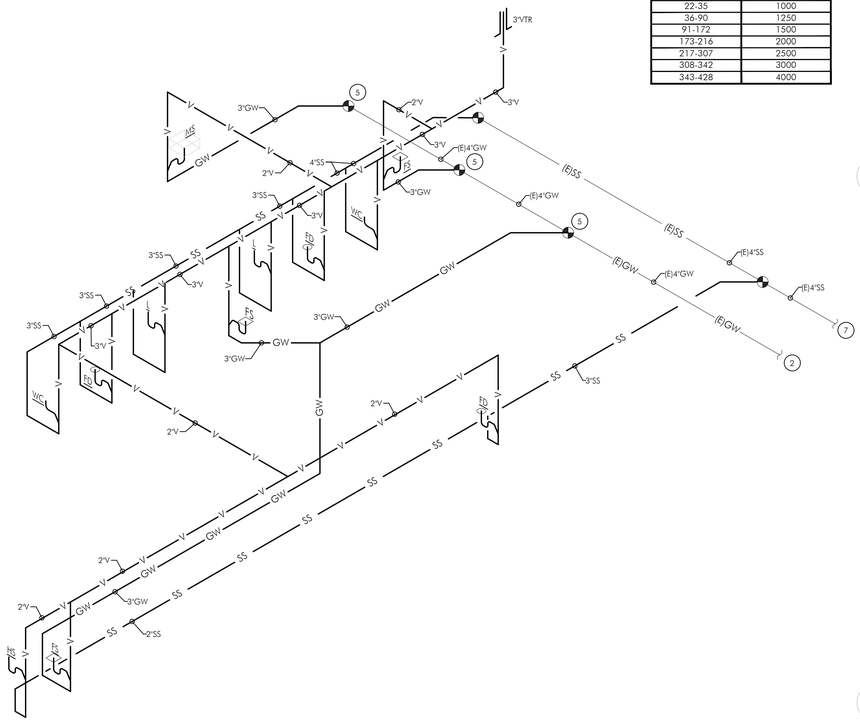
Mark	Qty	Description	Water Connections			Drain		Gas Connections		Notes
			CW	HW	FW	DD	ID	Size	MBH	
150A	1	Bagel Oven	--	--	1/4"	--	1"	--	149	1
220	1	Coffee Brewer	--	--	3/8"	--	--	--	--	1
374A	1	Proofer	--	--	1/2"	--	1/2"	--	--	1
443	1	Ice Machine, Freestanding	--	--	1/2"	--	3/4"	--	--	1
993	2	Water Heater	1-1/4"	1-1/4"	--	--	--	--	200	1

Note:
1. Drain to floor sink.
2. Verify - location TBD.
3. Verify by others.
4. Verify w/ cutsheet
5. See plumbing fixture schedule

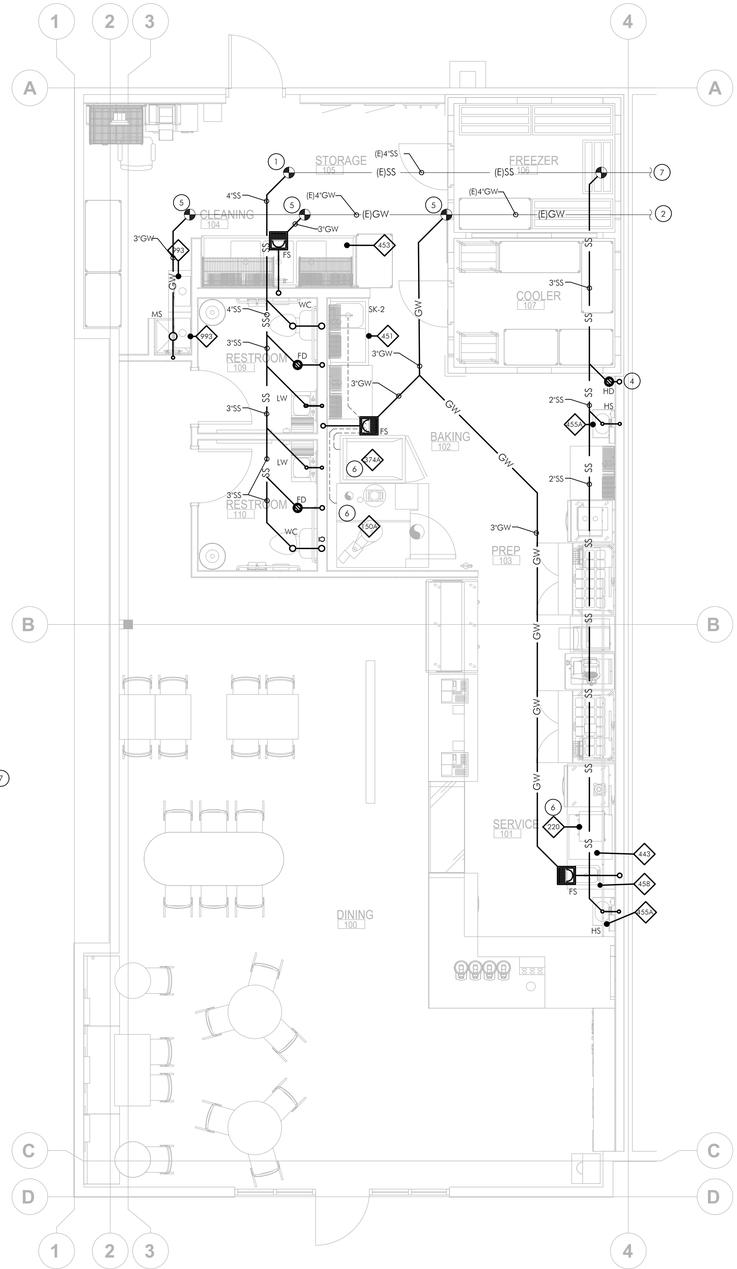
GREASE INTERCEPTOR CALCULATION CHART

Fixture Type	Fixture Location	Drain Size	Drainage Fixture Units (DFUs)	Quantity	TOTAL
Floor Sink	New EBB	3"	3.0	3	9
Mop Sink	New EBB	3"	3.0	1	3
Prep Sink	New EBB	3"	3.0	1	3
3-Comp Sink (#201)	New EBB	3"	3.0	1	3
Batch Freezer	Existing Handles	Existing	1.0	2	2
Floor Drain	Existing Handles	Existing	2.0	1	2
Mop Sink	Existing Handles	Existing	3.0	1	3
4 Compartment Sink	Existing Handles	Existing	3.0	1	3
Work Sink	Existing Handles	Existing	3.0	1	3
TOTAL DFU'S					32
MINIMUM INTERCEPTOR SIZE (GALLONS)					1000

Total DFUs	GGI Volume
2-8	500
9-21	750
22-35	1000
36-90	1250
91-172	1500
173-216	2000
217-307	2500
308-342	3000
343-428	4000



2 P2.0 WASTE AND VENT ISOMETRIC PLAN
SCALE: NONE



1 P2.0 WASTE PLAN
SCALE: 1/4"=1'-0"

PLUMBING GENERAL NOTES

1. THIS DESIGN IS DIAGRAMMATICAL. REFER TO MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION MANUALS FOR SPECIFIC LOCATIONS AND INSTALLATION DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS.
2. ALL REUSED MATERIALS OR EQUIPMENT SHALL BE IN GOOD CONDITION AND THE SYSTEM SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND IN GOOD WORKING ORDER AT THE COMPLETION OF THE PROJECT.
3. PROVIDE NEW HOT WATER RE-CIRCULATION LINES TO ANY NEW FIXTURE REQUIRING HOT WATER.
4. HOT WATER RE-CIRCULATION LINES SHALL CONNECT NO MORE THAN 6" FROM END USE FIXTURE, SUCH AS A LAVATORY, PER IECC REQUIREMENTS.

PLUMBING SHEET NOTES

1. CONNECT NEW SANITARY SEWER PIPE TO EXISTING 4" OR LARGER SANITARY SEWER PIPE IN SPACE. FIELD VERIFY EXISTING CONDITIONS, FINAL LOCATIONS, DIRECTION OF FLOW, INVERTS, AND CAPACITY PRIOR TO ANY WORK. VERIFY PIPE IS CORRECT, FUNCTIONING, LINE TO MAIN SEWER SYSTEM BEFORE MAKING CONNECTION.
2. EXISTING 4" GREASE WASTE LINE CONTINUES OUT OF SPACE TO EXISTING GREASE INTERCEPTOR. CONTRACTOR SHALL VERIFY GREASE INTERCEPTOR SIZE AND LOCATION, AS WELL AS PIPE ROUTING, LOCATION, SLOPE, DIRECTION OF FLOW AND CONNECTION POINTS PRIOR TO ANY WORK.
3. 4" VENT TO ROOF. FIELD VERIFY FINAL LOCATION PRIOR TO ROUGH-IN, MAINTAIN MINIMUM 10' CLEARANCE FROM ANY VENTILATION AIR INTAKE.
4. PLUMBING CONTRACTOR TO COORDINATE WITH WALK-IN PROVIDER ON THE ROUTING AND FINAL LOCATION OF CONDENSATE DISCHARGE FROM WALK-IN EVAPORATORS.
5. CONNECT NEW GREASE LINE TO 4" OR LARGER GREASE WASTE PIPE IN SPACE. FIELD VERIFY EXISTING CONDITIONS, FINAL LOCATIONS, DIRECTION OF FLOW, AND INVERTS PRIOR TO ANY WORK.
6. PROVIDE & INSTALL DRAIN LINE FROM EQUIPMENT TO DISCHARGE THROUGH AIR-GAP TO FLOOR SINK. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, ALL APPLICABLE CODES, AND THE AHJ. FIELD VERIFY FINAL LOCATIONS, HEIGHTS, & ROUTING TO MAINTAIN MINIMUM SLOPE.
7. EXISTING 4" SANITARY SEWER LINE CONTINUES OUT OF SPACE.

STATE OF MISSOURI
JOHN P. TINSLEY
PE-2007008506
PROFESSIONAL ENGINEER
12/15/2025

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PROJECT	DATE
25154.000 25-0119	12-15-2025
DRAWN	CHECKED
GWM	JPT

REVISED

SHEET TITLE
PLUMBING WASTE PLANS

SHEET
P2.0

ORIGINAL SHEET SIZE
24" x 36"

GENERAL PROJECT NOTES

NOTE: SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS

1. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY FOR A COMPLETE, OPERATIONAL AND PROPERLY FUNCTIONING ELECTRICAL SYSTEM
2. MATERIALS AND INSTALLATION SHALL COMPLY WITH CODES, LAWS AND ORDINANCES OF FEDERAL, STATE AND LOCAL GOVERNING BODIES HAVING JURISDICTION.
3. MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L., ETL, CSA OR ANOTHER RECOGNIZED TESTING LAB. ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW, UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED.
4. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES AND UTILITY COMPANIES SHOP DRAWINGS REQUIRED BY THESE AGENCIES FOR APPROVAL. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE ELECTRICAL WORK. THIS CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THIS CONTRACT, SHALL BE RESPONSIBLE FOR WORKER'S IDENTIFICATION AND BADGING, SAFETY, AND LIABILITY INSURANCE. PROVIDE BARRICADES, WARNING SIGNS, AND TRASH REMOVAL FOR THE SAFETY OF THE WORKERS UNDER THIS CONTRACTOR'S EMPLOY.
5. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER/OWNER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
6. THE CONTRACTOR SHALL PREPARE THE DOCUMENTS, INCLUDING DRAWINGS, REQUIRED TO OBTAIN APPROVAL OF THE EQUIPMENT AND LOCATIONS OF THE DEVICES THAT COMPRISE THE BUILDING FIRE ALARM LIFE SAFETY SYSTEM. THE DRAWINGS AND CUT SHEETS SHALL BE PROVIDED TO A PROFESSIONAL ENGINEER FOR REVIEW AND APPROVAL. THE APPROVED DRAWINGS WILL BE STAMPED, SIGNED AND RETURNED TO E.C. TO SUBMIT TO THE BUILDING DEPARTMENT.
7. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH THE BUILDING STANDARDS, LOCAL JURISDICTIONAL CODES AND REQUIREMENTS, AND LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. SUBMISSION OF PROPOSAL IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE. NO EXTRA CHARGE WILL BE ALLOWED FOR CHANGES AS A RESULT FROM FAILURE TO EXAMINE THE JOB SITE.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND WIRING FOR THE PERFORMANCE OF ALL TRADES, FOR THE ENTIRE PERIOD OF CONSTRUCTION AND SHALL REMOVE ALL TEMPORARY WIRING AT THE COMPLETION OF CONSTRUCTION.
9. THE EXISTING POWER, SIGNAL AND COMMUNICATION SYSTEMS ARE TO REMAIN IN SERVICE TO PROVIDE FOR THE OWNER'S FUNCTION. SHOULD IT BECOME NECESSARY TO SHUT-DOWN ANY SYSTEM OR PORTION OF A SYSTEM, APPROVAL IN WRITING MUST BE OBTAINED FROM THE OWNER AND SHALL ONLY APPLY FOR THE PERIOD AND TIME AGREED UPON. THE BID IS TO INCLUDE THE COST OF ANY TEMPORARY WIRING AND PREMIUM TIME REQUIRED FOR THE SHUTDOWN.
10. ALL MATERIALS AND EQUIPMENT SHALL BE ERECTED, INSTALLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.
11. ALL CUTTING, DRILLING AND PATCHING OF MASONRY, STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ARCHITECT-DESIGNER OR THEIR REPRESENTATIVE.
12. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ELECTRICAL FIXTURES AND ELECTRICAL DEVICES. MOUNTING HEIGHTS SHALL CONFORM TO ADA/ICC/ANSI STANDARDS.
13. ALL WORK REQUIRED FOR THE INSTALLATION AS SHOWN ON DRAWINGS INCLUDING LABOR, EQUIPMENT AND MATERIALS SHALL BE IN STRICT COMPLIANCE WITH THE BUILDING STANDARDS.
14. PROVIDE COMPLETE METAL RACEWAY SYSTEMS AND ENCLOSURES FOR ALL WIRING THROUGHOUT THE EXTENT OF THE REQUIRED SYSTEM.
15. ALL TELE/ DATA BOXES SHALL BE PROVIDED WITH A 1/2" CONDUIT AND BUSHING WITH PULL STRING RUN 6" ABOVE FINISHED CEILING OR CEILING GRID. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED FOR ALL WALL OUTLETS & TELEPHONE WIRING RUNNING BELOW RAISED FLOOR OR ABOVE HARD CEILINGS.
16. ALL RECEPTACLES NOTED AS ISOLATED GROUND (IG) OR DEDICATED OR CIRCUITED AS DEDICATED SHALL BE PROVIDED WITH A DEDICATED GROUND AND NEUTRAL. ALL RECEPTACLES IN BATHROOMS, KITCHENS, ROOFTOPS, OUTDOORS, AND WITHIN 6FT. OF A SINK SHALL BE GFCI (OR SERVED BY A GFI CIRCUIT BREAKER) PER NEC 210.8(B). THE E.C. SHALL PROVIDE GFCI OUTLETS (OR CIRCUIT BREAKERS) IN ALL LOCATIONS REQUIRED BY THE NEC. ALL RECEPTACLES IN DWELLING UNITS, GUEST ROOMS, AND CHILD CARE FACILITIES (AS SPECIFIED BY ARTICLE 406 OF THE NEC) SHALL BE LISTED AS TAMPER-RESISTANT RECEPTACLES.
17. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE INDICATED. CONDUITS LARGER THAN 2" DIAMETER OR CONDUITS OF ANY SIZE ROUTED OUTDOORS SHALL BE INTERMEDIATE METAL CONDUIT (IMC)
18. FLEXIBLE CONDUIT CONNECTIONS TO RECESSED LIGHTING FIXTURES SHALL BE MADE WITH FLEXIBLE STEEL CONDUIT, 3/8 INCH MINIMUM.
19. FINAL CONNECTIONS TO MOTORS SHALL BE MADE WITH LIQUID TIGHT FLEXIBLE STEEL CONDUIT, 1/2 INCH MINIMUM.
20. WIRE NO. 8 AND SMALLER INSTALLED IN DRY LOCATIONS SHALL BE TYPE THWN OR THHN THERMOPLASTIC 600V INSULATED COPPER CONDUCTORS. NO WIRE SMALLER THAN NO.12 SHALL BE USED FOR LIGHTING OR POWER WIRING. WIRE NO. 8 AND LARGER SHALL BE STRANDED. ALL CONDUCTORS INSTALLED IN EXTERIOR OR WET LOCATIONS SHALL BE TYPE THWN 600V INSULATED COPPER CONDUCTORS.
21. ALL NEW CIRCUIT BREAKERS FOR NEW OR EXISTING PANEL BOARDS SHALL MATCH EXISTING OR NEW BUILDING STANDARD PANEL BOARD MANUFACTURER AND BREAKER TYPE. THE CONTRACTOR SHALL PROVIDE NEW ACCURATE AND DETAILED TYPE WRITTEN PANEL DIRECTORIES PER NEC 408.4 FOR ALL NEW OR MODIFIED PANELS. NUMBERED CIRCUITS ARE FOR CONVENIENCE OF DESIGN ONLY. E.C. TO FIELD VERIFY ACTUAL CIRCUIT NUMBERS USED AND CORRECTLY INDICATE ON "AS-BUILT" DRAWINGS. THE E.C. SHALL REMOVE ALL ABANDONED CIRCUITS.
22. PROVIDE #10 FOR BRANCH CIRCUITS OVER 75' AT 120V AND OVER 150' AT 277V. E.C. TO FIELD VERIFY BRANCH CIRCUIT LENGTHS AND SIZE CONDUCTORS FOR VOLTAGE DROP.
23. EACH SWITCH, LIGHT, RECEPTACLE AND ALL OTHER DEVICES SHALL BE PROVIDED AND INSTALLED WITH A GALVANIZED OR SHERARDIZED PRESSED STEEL JUNCTION BOX OF NOT LESS THAN NO. 14 U.S. GAUGE STEEL. CONDUITS SHALL BE FASTENED WITH LOCKNUTS AND BUSHINGS AND ALL UNUSED KNOCKOUTS MUST BE LEFT SEALED. THERE MUST BE SUFFICIENT ROOM FOR WIRES AND BUSHINGS AND DEEP BOXES SHALL BE INSTALLED WHERE REQUIRED. BOXES SHALL BE SECURELY AND ADEQUATELY SUPPORTED.
24. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SPECIAL OUTLET BOXES THAT MAY BE REQUIRED TO ENCLOSE RECEPTACLES.
25. IN SUSPENDED CEILINGS SUPPORT CONDUIT AND JUNCTION BOXES DIRECT FROM THE STRUCTURAL SLAB, DECK, OR FRAMING PROVIDED FOR THAT PURPOSE. LIGHTING BRANCH CIRCUIT CONDUITS SHALL NOT BE CLIPPED TO THE CEILING SUPPORT WIRES OR SPLINE UNLESS THE CEILING SYSTEM HAS BEEN SPECIFICALLY DESIGNED FOR THAT PURPOSE.
26. PROVIDE LOCAL DISCONNECT SWITCHES FOR ALL MOTORS (PLENUM APPROVED WHERE REQUIRED).
27. THE E.C. SHALL INCLUDE IN HIS COST THE REMOVAL OF ALL EXISTING ELECTRICAL DEVICES, CONDUITS, FIXTURES AND EQUIPMENT THAT IS NOT TO BE REUSED DISCARD ALL EQUIPMENT AS REQUIRED. E.C. SHALL BE RESPONSIBLE FOR DISCONNECTING PRIMARY SERVICE AND TEMPORARY POWER.
28. PROVIDE WARRANTY GUARANTEED FOR A PERIOD OF ONE YEAR AFTER COMPLETION AND ACCEPTANCE. REPLACE ALL DEFECTIVE WORKMANSHIP, EQUIPMENT AND MATERIALS WITHOUT ADDITIONAL CHARGES.
29. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS/HER OWN PROPERTY ON THE JOB SITE. THE OWNER OR TENANT ASSUMES NO RESPONSIBILITY FOR PROTECTION OF THIS CONTRACTOR'S PROPERTY AGAINST FIRE, THEFT, OR ENVIRONMENTAL CONDITIONS.
30. WHERE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE RATED FLOORS, WALLS, OR PARTITIONS, THE SLEEVES SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS U.L. LISTED (EQUAL TO DOW CORNING) AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THE SERVICE. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS IN ORDER TO MAINTAIN THE FIRE RATING OF THE PENETRATED WALL, FLOOR, OR PARTITION. INSTALLATION SHALL BE A THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM AND UL . THE FIRE RATING SHALL MATCH THE RATING OF THE BARRIER BEING PENETRATED.
31. SUBMIT ONE (1) PDF OR SIX (6) SETS OF SHOP DRAWINGS, CONTROL DIAGRAMS, AND EQUIPMENT CUTS TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING RELATED WORK. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, CUTS, DIAGRAMS AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT. SUBMITTALS SHALL BE IN LOGICAL GROUPS, PARTIAL SUBMITTALS WILL NOT BE REVIEWED.
32. UPON COMPLETION OF CONSTRUCTION, SUPPLY THE ENGINEER WITH ONE COMPLETE SET OF FULL SIZE AS-BUILT DRAWINGS. PROVIDE THE OWNER WITH THREE (3) SETS OF OPERATION AND MAINTENANCE MANUALS FOR EACH TYPE OF EQUIPMENT INSTALLED.
33. THIS CONTRACTOR SHALL ASSUME ALL ADDED EXPENSES TO ALL TRADES ASSOCIATED WITH THE INSTALLATION OF SUBMITTED AND APPROVED ALTERNATE EQUIPMENT.
34. THE CONTRACTOR SHALL COORDINATE THE LAYOUT OF THE FIRE ROOM WITH ALL OTHER DISCIPLINES, ESPECIALLY THE FIRE ALARM AND FIRE PROTECTION DESIGN-BUILD CONTRACTORS PRIOR TO ANY WORK.
35. IF ANY CHANGES ARE MADE TO ACCOMMODATE FIELD CONDITIONS NOTIFY THE ENGINEER IMMEDIATELY OF WHAT THE CHANGES WERE, THE REASON FOR THE CHANGES, AND THE COST IMPACTS.

ELECTRICAL LEGEND

NOTE: NOT ALL ITEMS APPEAR ON DRAWINGS. SYMBOLS MAY DIFFER FROM EXISTING AND DEMO WORK OR DEVICES REFERENCED FROM DRAWINGS BY OTHERS.

POWER AND LIGHTING

- GROUNDED SWITCHED DUPLEX RECEPTACLE
- GROUNDED SPLIT-WIRED RECEPTACLE
- GROUNDED DUPLEX RECEPTACLE
- GROUNDED QUADRAPLEX RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE
- FLOOR/CEILING MOUNTED RECEPTACLE
- JUNCTION BOX
- WALL MOUNTED JUNCTION BOX
- EQUIPMENT DISCONNECT SWITCH
- EQUIPMENT FUSED DISCONNECT SWITCH
- THERMAL OVERLOAD SWITCH
- ELECTRICAL PANEL BOARD
- TRANSFORMER
- X-## CIRCUIT '##' HOMERUN TO PANEL 'X' (ARROWS NOT USED IF CIRCUIT NUMBERS APPEAR NEXT TO DEVICES)
- PORCELAIN LAMP HOLDER
- RECESSED LIGHTING FIXTURE
- SURFACE MOUNTED LIGHITNG FIXTURE
- CEILING FIXTURE
- WALLWASHER or ADJUSTABLE DOWNLIGHT
- $# SINGLE POLE SWITCH, OR #-POLE
- $D DIMMER SWITCH
- $OC OCCUPANCY WALL BOX SWITCH
- EXIT SIGN - SHADED INDICATES FACE
- EMERGENCY FIXTURE - SHADED
- BATTERY PACK EMERGENCY LIGHT or COMBO EXIT - SEE SCHEDULE
- HP MOTOR (HP)

LOW VOLTAGE SYSTEMS

- TELEPHONE TERMINAL BOARD
- FLOOR/CEILING MOUNTED DATA OUTLET
- FLOOR/CEILING MOUNTED TELEPHONE OUTLET
- DATA OUTLET
- TELEPHONE/DATA OUTLET, PROJECT STANDARD
- TELEPHONE OUTLET
- CATV/MONITOR A/V OUTLET
- SPEAKER
- FACP FIRE ALARM PANEL
- FAA FIRE ALARM REMOTE ANNUNICATOR PANEL
- S-SMOKE, T-HEAT DETECTOR
- DUCT FIRE DETECTOR

ABBREVIATIONS

EWC	ELECTRIC WATER COOLER
EF	EXHAUST FAN
GFI	GROUND FAULT INTERRUPTING
AFI	ARC FAULT INTERRUPTING
CCT	CIRCUIT
E.C.	ELECTRICAL CONTRACTOR
AG	ABOVE COUNTER GFI - VERIFY HEIGHT
AC	ABOVE COUNTER - VERIFY HEIGHT
WP	WEATHER PROOF
TTB	TELEPHONE TERMINAL BOARD
AFF	ABOVE FINISH FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
(E)	EXISTING TO REMAIN
(EX)	EXISTING TO BE REMOVED
(ER)	EXISTING TO BE RELOCATED
(R)	RELOCATE/RELOCATED LOCATION

REFERENCE SYMBOLS

- # KEYED NOTE
- # EQUIPMENT - SEE SCHEDULE
- #/W FEEDER - SEE SCHEDULE
- XFMR XX kVA TRANSFORMER WITH GROUNDING AND OVERCURRENT DEVICES SEE TRANSFORMER SCHEDULE

CODE COMPLIANCE STATEMENT

THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES:

- NATIONAL ELECTRIC CODE (NEC) : 2017
- INTERNATIONAL ENERGY CONSERVATION CODE (IECC) : 2021

FEEDER SCHEDULE

ALUMINUM		COPPER
14[W-350kcmil, 3"C]	3000/W	8[W-500kcmil, 3/0G, 3-1/2"C]
7[W-500kcmil, 400kcmil G, 3-1/2"C]	2000/W	6[W-400kcmil, 3/0G, 3"C]
8[W-250kcmil, 250kcmilG, 3"C]	1600/W	5[W-400kcmil, 3/0G, 3"C]
4[W-500kcmil, 250kcmil G, 3-1/2"C]	1200/W	4[W-350kcmil, 3/0G, 3"C]
4[W-350kcmil, 4/0G, 3"C]	1000/W	3[W-400kcmil, 2/0G, 3"C]
3[W-400kcmil, 3/0G, 3"C]	800/W	3[W-300kcmil, 1/0G, 3"C]
3[W-350kcmil, 2/0G, 3"C]	750/W	3[W-250kcmil, 1/0G, 3"C]
2[W-500kcmil, 2/0G, 3-1/2"C]	600/W	2[W-350kcmil, #1G, 3"C]
2[W-350kcmil, 1/0G, 3"C]	500/W	2[W-250kcmil, #2G, 3"C]
2[W-250kcmil, #1G, 3"C]	400/W	2[W-3/0, #3G, 2"C]
2[W-4/0, #2G, 2-1/2"C]	350/W	2[W-2/0, #3G, 2"C]
W-500kcmil, #2G, 3-1/2"C	300/W	W-350kcmil, #4G, 3"C
W-350kcmil, #4G, 3"C	250/W	W-250kcmil, #4G, 3"C
W-300kcmil, #4G, 3"C	225/W	W-4/0, #4G, 2"C
W-250kcmil, #4G, 2-1/2"C	200/W	W-3/0, #6G, 2"C
W-4/0, #6G, 2"C	175/W	W-2/0, #6G, 2"C
W-3/0, #6G, 2"C	150/W	W-1/0, #6G, 2"C
W-2/0, #6G, 2"C	125/W	W-1/0, #6G, 2"C
W-2/0, #6G, 2"C	110/W	W#1, #6G, 1-1/2"C
W-1/0, #6G, 2"C	100/W	W#1, #6G, 1-1/2"C
W-1/0, #6G, 2"C	90/W	W#2, #8G, 1-1/4"C
W#1, #8G, 1-1/2"C	80/W	W#3, #8G, 1-1/4"C
W#2, #8G, 1-1/4"C	70/W	W#4, #8G, 1-1/4"C
W#2, #8G, 1-1/4"C	60/W	W#4, #8G, 1-1/4"C
W#4, #8G, 1-1/4"C	50/W	W#6, #10G, 1"C
W#6, #8G, 1" C	40/W	W#8, #10G, 1" C
W#8, #10G, 3/4"C	30/W	W#10, #10G, 3/4"C
W#10, #10G, 3/4"C	20/W	W#12, #12G, 3/4"C

This table indicates minimum conductor size for feeders of the ampacity indicated where #/W indicates the ampacity/ numbers of wire. A #S/W indicates no ground. Example : 100/3 is equal to 3#1, #6G, 1-1/2"C

Service Ground Table

	ALUMINUM	COPPER
150G	#4	#6
200G	#2	#4
300G	1/0	#2
500G	3/0	1/0
800G	4/0	2/0
>800G	250	3/0

Equipment Ground Table

	ALUMINUM	COPPER
20EG	#10	#12
60EG	#8	#10
100EG	#6	#8
200EG	#4	#6
300EG	#2	#4
400EG	#1	#3

The service ground chart indicates the minimum service ground based on #G where # is the ampacity from the chart above, and the equipment ground chart indicates the minimum equipment grounding conductor size #EG where # is the rating/ setting of the overcurrent device protecting the conductors and equipment.
All conductors shall be COPPER, unless denoted by "AL"

Where discrepancies occur between the Feeder schedule and the grounding charts, the chart shall overrule the feeder schedule and the NEC shall overrule all schedules.

The master electrician shall be responsible for ensuring that no feeders or branch circuits are installed in a manner or sized in such a way as to violate the NEC.

Ampacities are based on NEC table 310.15(B)(16) utilizing the 60 degree column up to 100 Amps and the 75 degree column above 100 Amps Service ground conductor sizes are per NEC table 250.66 and equipment ground is per NEC table 250.122.

TRANSFORMER SCHEDULE

Overcurrent Protection 480V, 3Ø	kVA - Ground	Overcurrent Protection 208V, 3Ø
20A	15 - #8	50A
50A	30 - #6	100A
70A	45 - #6	150A
125A	75 - #2	250A
175A	112.5 - #2	400A
225A	150 - 1/0	500A
350A	225 - 2/0	800A

Notes: Primary shall be 3-wire and secondary shall be 4-wire unless noted otherwise. All transformers 45kVA and below shall be suspended unless noted otherwise. All transformers over 45kVA shall be floor mounted unless noted otherwise. Primary and secondary feeders shall be sized per the circuit breaker size and shall be 3-wire on the primary and 4-wire on the secondary. For example, all 45kVA 480/208V transformers with a 480V primary will be fed with a 70/3 on the primary and a 150/4 on the secondary (the bonding and grounding shall be per NEC 250.30A).

FIRE ALARM SYSTEM NOTES

FIRE ALARM SYSTEM IS TO BE DESIGN/BUILD BY THE CONTRACTOR.

PANEL SCHEDULE: B

December 15, 2025

PROJECT: Einstein Bros. Bagles - Lee's Summit, MO
LOCATION: Tenant Space
JOB NO.: 25-119
COMMENTS: New NEMA 1 Panelboard
VOLTAGE L-L: 208
VOLTAGE L-G: 120
SYSTEM: 3Ø, 4-WIRE
Circuit Font Key: Normal: New
BUS RATING: 200 A
MAIN O.C. DEVICE: 200 A MLO
MOUNTING: Surface
S.C.RMS RATING: 42,000 AIC
FED FROM: Panel A

CIR NO.	CIRCUIT BREAKER AMPS	POLE	CONNECTED LOAD (VA)	NEC DEMAND FACTOR	DESCRIPTION OF LOAD SERVED	PHASE	DESCRIPTION OF LOAD SERVED	NEC DEMAND FACTOR	CONNECTED LOAD (VA)	CIRCUIT BREAKER POLE	AMPS	CIR NO.
1	20	1	1,080	1.00	Office Desk	A	508 - UC Refrigerator	0.65	900	1	20	2
3	20	2	1,896	0.65	379 - Bagel Toaster	B	508 - UC Refrigerator	0.65	900	1	20	4
5	20	2	1,896	0.65	379 - Bagel Toaster	C	509 - Worktop Refrigerator	0.65	264	1	20	6
7	20	1	816	0.65	378 - Bagel Slicer	A	RR Receptacles	1.00	180	1	20	8
9	20	1	720	1.00	Lobby Receptacles	B	220-Coffee Brewer w/ Shuttles	0.65	2,533	3	30	10
11	20	1	540	1.00	900-902 - POS	C	220-Coffee Brewer w/ Shuttles	0.65	2,533	3	30	12
13	20	1	540	1.00	900-902 - POS	A	220-Coffee Brewer w/ Shuttles	0.65	2,533	3	30	14
15	20	1			Spare	B	390 - Microwave	0.65	850	2	15	16
17	20	1	360	1.00	902 Printer/903 Monitor	C	390 - Microwave	0.65	850	2	15	18
19	20	1	180	1.00	903 - Monitor	A	230 - Blender	0.65	1,812	1	20	20
21	20	1	180	1.00	903 - Monitor	B	207 - Bakery Case	1.00	448	1	20	22
23	20	1			Spare	C	KEF-1, EF-1,2, & 3	1.00	274	1	20	24
25	20	1			Spare	A	Spare			1	20	26
27	20	2	1,190	0.65	387 - Egg Station	B	Handsink Receptacles	1.00	360	1	20	28
29	20	2	1,190	0.65	387 - Egg Station	C	Spare			1	20	30
31	20	1			Spare	A	Spare			1	20	32
33	20	1			Spare	B	Spare			1	20	34
35	20	2	1,896	0.65	379 - Bagel Toaster	C	Spare			1	20	36
37	20	2	1,896	0.65	379 - Bagel Toaster	A	Spare			1	20	38
39	20	1	180	1.00	WiFi	B	Spare			1	20	40
41	20	1	180	1.00	983 - Brinks Box	C	Spare			1	20	42

CONNECTED LOAD:
PHASE A (VA): 9,937
PHASE B (VA): 9,257
PHASE C (VA): 9,983
TOTAL LOAD (VA): 29,178

DEMAND LOAD:
PHASE A (VA): 7,152
PHASE B (VA): 6,678
PHASE C (VA): 6,963
TOTAL DEMAND LOAD (VA): 20,793 57.72 A

NOTES:
1.

PANEL SCHEDULE: A

December 15, 2025

PROJECT: Einstein Bros. Bagles - Lee's Summit, MO
LOCATION: Tenant Space
JOB NO.: 25-119
COMMENTS: Existing Panelboard
VOLTAGE L-L: 208
VOLTAGE L-G: 120
SYSTEM: 3Ø, 4-WIRE
Circuit Font Key: **Bold: New/Changed** *Italic: Existing to Remain*
BUS RATING: 400 A
MAIN O.C. DEVICE: 400 A MCB
MOUNTING: Surface
S.C.RMS RATING: 42,000 AIC
FED FROM: Meter

CIR NO.	CIRCUIT BREAKER AMPS	POLE	CONNECTED LOAD (VA)	NEC DEMAND FACTOR	DESCRIPTION OF LOAD SERVED	PHASE	DESCRIPTION OF LOAD SERVED	NEC DEMAND FACTOR	CONNECTED LOAD (VA)	CIRCUIT BREAKER POLE	AMPS	CIR NO.
1	*50*	*3*	*5,160*	*1.00*	*RTU-E1*	A	*RTU-E2*	*1.00*	*5,160*	*3*	*50*	2
3	*50*	*3*	*5,160*	*1.00*	*RTU-E1*	B	*RTU-E2*	*1.00*	*5,160*	*3*	*50*	4
5	*50*	*3*	*5,160*	*1.00*	*RTU-E1*	C	*RTU-E2*	*1.00*	*5,160*	*3*	*50*	6
7	*20*	*1*	*360*	*1.00*	*Roof GFCI*	A	**386 - Egg Holder**	**0.65**	**1,200**	**1**	**20**	8
9	**20**	**1**	**1,200**	**1.25**	**Show Window Receptacles**	B	**361A - 4' Sandwich Station**	**0.65**	**276**	**1**	**20**	10
11	**20**	**1**	**500**	**1.00**	**Time Clock**	C	**361A - 4' Sandwich Station**	**0.65**	**276**	**1**	**20**	12
13	**20**	**1**	**1,200**	**1.25**	**Sign**	A	**443 - UC Ice Machine**	**0.65**	**1,572**	**1**	**20**	14
15	**20**	**1**	**1,200**	**1.25**	**Sign**	B	**Spare**			**2**	**30**	16
17	**20**	**1**	**1,200**	**1.25**	**Sign**	C	**Spare**			**2**	**30**	18
19	**20**	**1**	**28**	**1.25**	**Walk-In Cooler Lights**	A	**993 - WH-1,2, & CP**	**1.25**	**1,620**	**1**	**20**	20
21	**20**	**1**	**28**	**1.25**	**Walk-In Freezer Lights**	B	**384 - Rapid Cook Oven**	**0.65**	**2,995**	**2**	**30**	22
23	**15**	**2**	**1,080**	**1.00**	**571-2 Cooler Evap/Comp**	C	**384 - Rapid Cook Oven**	**0.65**	**2,995**	**2**	**30**	24
25	**15**	**2**	**1,080**	**1.00**	**571-2 Cooler Evap/Comp**	A	**150 - Bagel Oven**	**0.65**	**1,560**	**3**	**20**	26
27	**30**	**2**	**3,036**	**1.00**	**585-6 Freezer Evap/Comp**	B	**150 - Bagel Oven**	**0.65**	**1,560**	**3**	**20**	28
29	**30**	**2**	**3,036**	**1.00**	**585-6 Freezer Evap/Comp**	C	**150 - Bagel Oven**	**0.65**	**1,560**	**3**	**20**	30
31	**20**	**1**	**60**	**1.00**	**584A Frzr Heat Tape Recept**	A	**374A - Proofer**	**0.65**	**2,040**	**3**	**20**	32
33	**20**	**1**			**Spare**	B	**374A - Proofer**	**0.65**	**2,040**	**3**	**20**	34
35	**20**	**1**			**Spare**	C	**374A - Proofer**	**0.65**	**2,040**	**3**	**20**	36
37	**20**	**1**	**612**	**1.25**	**Lobby & RR Down Lights**	A	**Panel B**	**1.00**	**7,152**	**3**	**125**	38
39	**20**	**1**	**415**	**1.25**	**Kitchen Lights**	B	**Panel B**	**1.00**	**6,678**	**3**	**125**	40
41	**20**	**1**	**240**	**1.25**	**Track Lights**	C	**Panel B**	**1.00**	**6,963**	**3**	**125**	42

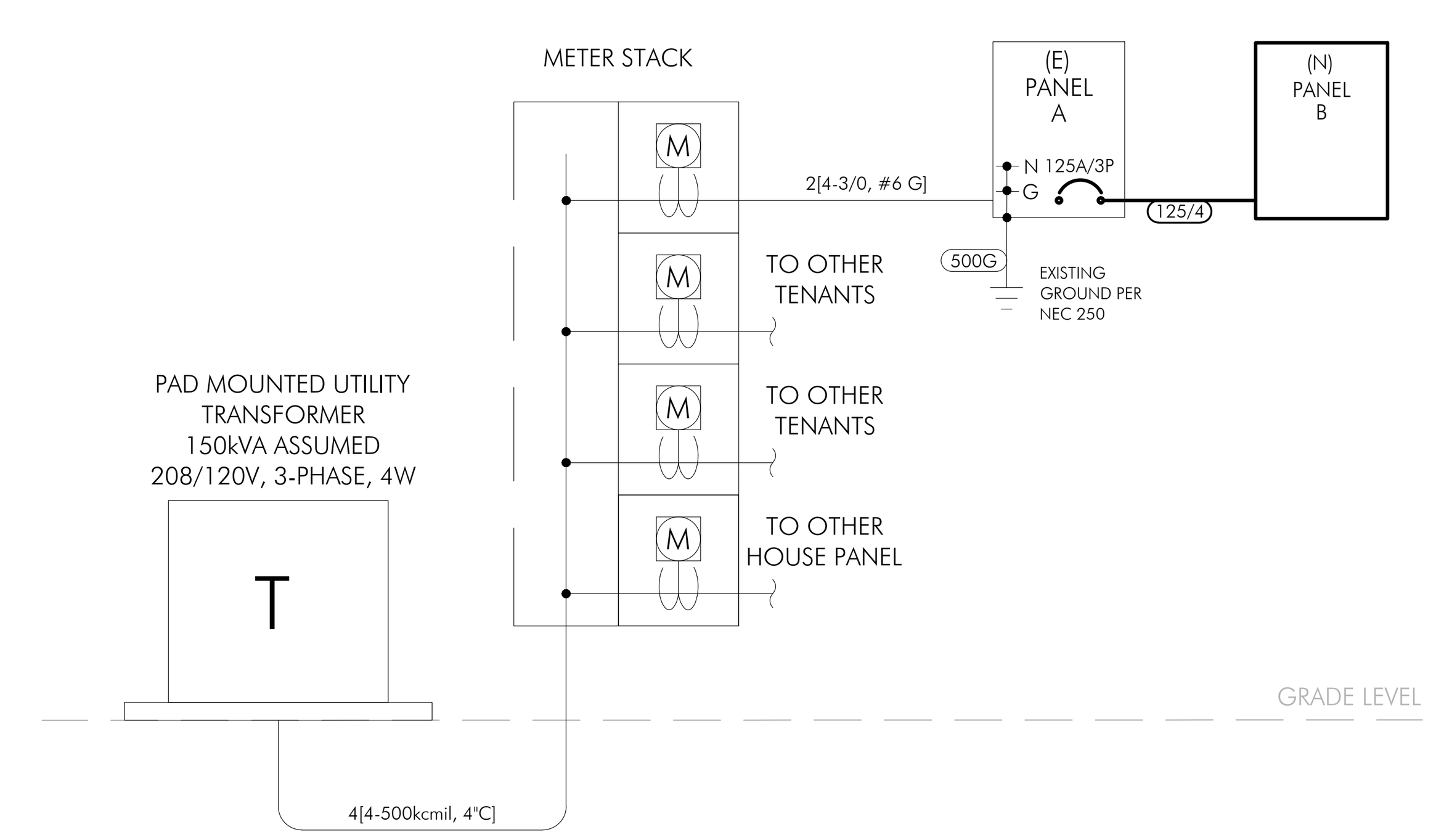
CONNECTED LOAD:
PHASE A (VA): 28,804
PHASE B (VA): 29,748
PHASE C (VA): 30,210
TOTAL LOAD (VA): 88,762

DEMAND LOAD:
PHASE A (VA): 27,439
PHASE B (VA): 28,054
PHASE C (VA): 28,165
TOTAL DEMAND LOAD (VA): 83,658 232.22 A

NOTES:
1.

SCOPE OF WORK:

1. PROVIDE & INSTALL ELECTRICAL CONNECTIONS, RECEPTACLES, LIGHTING, ETC. FOR A COMPLETE TENANT FINISH.
2. EXISTING TO REMAIN 400A 42 CIRCUIT PRIMARY 'A' PANEL.
3. PROVIDE AND INSTALL NEW 42 CIRCUIT PANEL AS PANEL 'B'.
4. PROVIDE ELECTRICAL CONNECTION FOR NEW HVAC EQUIPMENT.



1 / E0.0 ONE-LINE DIAGRAM

SCALE: NONE

ONE LINE DIAGRAM GENERAL NOTES:

1. E.C. TO FIELD VERIFY EXISTING CONDITIONS
2. ALL EQUIPMENT IS EXISTING UNLESS NOTED AS NEW (N).
3. ALL EXTERIOR EQUIPMENT TO BE WEATHERPROOF
4. FIELD VERIFY INSTALLATION REQUIREMENTS WITH UTILITY CO. PRIOR TO ANY ROUGH-IN.
5. SERVICE EQUIPMENT SHALL BE LEGIBLY LABELED IN THE FIELD, IN ACCORDANCE WITH THE NEC 110.24 (A):
   - 5.1. MAXIMUM AVAILABLE FAULT CURRENT.
   - 5.2. THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED.
   - 5.3. THE LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
6. THIS DESIGN IS DIAGRAMMATICAL. REFER TO MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION MANUALS FOR SPECIFIC LOCATIONS AND INSTALLATION DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS.
7. ALL REUSED MATERIALS OR EQUIPMENT SHALL BE IN GOOD CONDITION AND THE SYSTEM SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND IN GOOD WORKING ORDER AT THE COMPLETION OF THE PROJECT.

FAULT CURRENT CALCULATION TABLE

December 15, 2025

	LOCATION (n)	# of RUNS	CONDUCTOR	VOLTAGE	L(ft)	C	f	M	F
	150	Utility Transformer		208					38,912
CU	Meter Stack	4	500	208	5	26,706	0.02	0.99	38,331
CU	Panel A	2	3/0	208	40	12,844	0.50	0.67	25,615
CU	Panel B	1	3/0	208	2	12,844	0.03	0.97	24,793

NOTES:

1. All Calculations use Bussman "Point-To-Point" Method.
2. Variables: L=Feeder Length (LF) C=Conductor "C" Value M(n) =1 ÷ (1+f(n))
   f(n) = (1.73 x L x F(n-1))/(C x # of runs x Voltage) in Amperes F(n)=F(n-1) x M(n)
3. The E.C. shall report any discrepancies to the Engineer.
4. Aluminum Conductors, MC Cabling, and Series Rated Panels are not allowed.
5. The E.C. shall verify the Available Fault Current from the Electrical Utility and shall report the actual Fault Current available to the Engineer if different from shown. Fault Currents are based on Utility information or %Z=1.4 if none are provided.
6. The E.C. shall field verify the Feeder Lengths and report any discrepancy to the engineer. Conductor Lengths listed in this table are engineering estimates and are not intended to represent actual lengths for bidding or other calculations. The E.C. shall inform the Engineer immediately if the actual lengths are less than that listed.

STATE OF MISSOURI
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PE-2007008506
PROFESSIONAL ENGINEER
12/15/2025

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Englewood, CO 80112
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PROJECT	DATE
25154.000 25-0119	12-15-2025
DRAWN	CHECKED
BCWM	JPT

REVISED

SHEET TITLE

ELECTRICAL ONE-LINE, NOTES, & SCHEDULES

SHEET

E0.0

ORIGINAL SHEET SIZE 24" x 36"

KITCHEN EQUIPMENT SCHEDULE

December 15, 2025

	DESCRIPTION	QTY.	LOAD HP,KW,FLA	VOLTS	Ø	BRANCH CKT. CONDUCTORS	COND.	CIRCUIT	CONNECTION RECEPT.	CONNECTION DISC.	CONNECTION J-BOX	NOTES
150A	Bagel Oven	1	13 A	208	3	4#12,#12G	3/4"	A-26,28,30	Verify 88" AFF	Verify	Verify	
207	Bakery Case	1	448 W 3/5 HP	120	1	2#12,#12G	3/4"	B-22	5-20R	Verify	Verify	
220	Coffee Brewer W/ Shuttles	1	7.6 kW	208	3	4#10,#10G	3/4"	B-10,12,14	L21-30R GFI 54" AFF	--	--	
230	Blender	1	15.1 MCA	120	1	2#12,#12G	3/4"	B-20	Verify 56" AFF	Verify	Verify	
361A	Sandwich Station, 4'	2	2.3 MCA 1/7 HP	120	2	2#12,#12G	3/4"	A-10; A-12	5-15R 48" AFF	--	--	
374A	Proofer	1	17 MCA	208	3	4#10,#10G	3/4"	A-32,34,36	Verify 88" AFF	Verify	Verify	
378	Bagel Slicer	1	6.8 MCA 1/3 HP	120	1	2#12,#12G	3/4"	B-7	5-20R 48" AFF	--	--	
379	Bagel Toaster	2	15.8 MCA	208	1	3#12,#12G	3/4"	B-3,5 B-35,37	6-20R 48" AFF	--	--	
384	Oven, Rapid Cook	1	5.99 kW 30 MOCP	208	1	3#10,#10G	3/4"	A-22,24	6-30R 54" AFF	--	--	
386	Egg Holder	1	1.2 kW	120	1	2#12,#12G	3/4"	A-8	5-15R 64" AFF	--	--	
387	Egg Station	1	2.38 kW	208	1	3#12,#12G	3/4"	B-27,29	6-20R 48" AFF	--	--	
390	Microwave	1	1.7 kW	208	1	3#12,#12G	3/4"	B-16,18	6-15R 64" AFF	--	--	
443	Ice Machine, Undercounter	1	13.1 MCA	115	1	2#12,#12G	3/4"	A-14	5-20R	--	--	
508	Refrigerator, Worktop Single	2	7.5 MCA 1/4 HP	120	1	2#12,#12G	3/4"	B-2; B-4	5-15R 18" AFF	--	--	
509	Refrigerator, Undercounter Single	1	2.8 MCA 1/5 HP	120	1	2#12,#12G	3/4"	B-6	5-15R 18" AFF	--	--	
570	Walk-In Cooler	1										
571	Cooler Evaporator	1	1.6 MCA	208	1	3#12,#12G	3/4"	A-23,25	Verify	Verify	Verify	
572	Cooler Compressor	1	7.4 MCA	208	1	3#12,#12G	3/4"	A-23,25	Verify	Verify	Verify	
584	Walk-In Freezer	1										
584A	Heat Tape	1	0.5 MCA	120	1	2#12,#12G	3/4"	A-31	Verify	Verify	Verify	
585	Freezer Evaporator	1	9.8 MCA	208	1	3#10,#10G	3/4"	A-27,29	Verify	Verify	Verify	
586	Freezer Compressor	1	15.5 MCA	208	1	3#10,#10G	3/4"	A-27,29	Verify	Verify	Verify	
900	POS	2	Verify	120	1	2#12,#12G	3/4"	B-11; B-13	Verify	Verify	Verify	
901	Cash Drawer	2	Verify	120	1	2#12,#12G	3/4"	B-11; B-13	Verify	Verify	Verify	
902	Receipt Printer	3	Verify	120	1	2#12,#12G	3/4"	B-11; B-13; B-17	Verify	Verify	Verify	
903	Monitors	3	Verify	120	1	2#12,#12G	3/4"	B-17; B-19; B-21	Verify 72" AFF	Verify	Verify	
905	Back Office System	1	Verify	120	1	2#12,#12G	3/4"	B-1	Verify	Verify	Verify	
906	Office Printer	1	Verify	120	1	2#12,#12G	3/4"	B-1	Verify	Verify	Verify	
907	Workstation	1	Verify	120	1	2#12,#12G	3/4"	B-1	Verify	Verify	Verify	
910	Sound System	1	Verify	120	1	2#12,#12G	3/4"	B-1	Verify	Verify	Verify	
970	DVR	1	Verify	120	1	2#12,#12G	3/4"	B-1	Verify 20" DFA	Verify	Verify	
983	Brinks Box	1	180 W	120	1	2#12,#12G	3/4"	B-41	Verify	Verify	Verify	
993	Water Heater, Gas Tankless	2	4 MCA	120	1	2#12,#12G	3/4"	A-20	Verify 96" AFF	Verify	Verify	

NOTES:

1. Field verify device locations and mounting heights and equipment requirements with provider prior to rough-in. Field verify outlet, J-Box or hardwire, number of wires, wire and circuit size requirements with provider prior to rough-in.
2. Equipment numbers coordinate with Equipment Schedule on Architectural/Kitchen drawings, reference for additional information.
3. All outlets serving equipment designated with NEMA 5-15 plugs shall be 20A duplex receptacles on a 20A branch circuit breaker in accordance with NEC 210.21(B)(3) and shall be GFI per NEC 210.8(B).
4. Where hoods with fire suppression are utilized, upon activation of the hood fire supression system all sources of power located under the hood shall be automatically shut off. The E.C. shall provide shunt trip circuit breakers and/or other wiring methods as required.
5. Notes 1-4 apply to all equipment.
6. All raceways in millwork shall be run concealed from view.
7. POS EQUIPMENT - Provide dedicated IG circuit with dedicated neutral and ground and data raceways - field verify requirements and additional scope of work with provider.

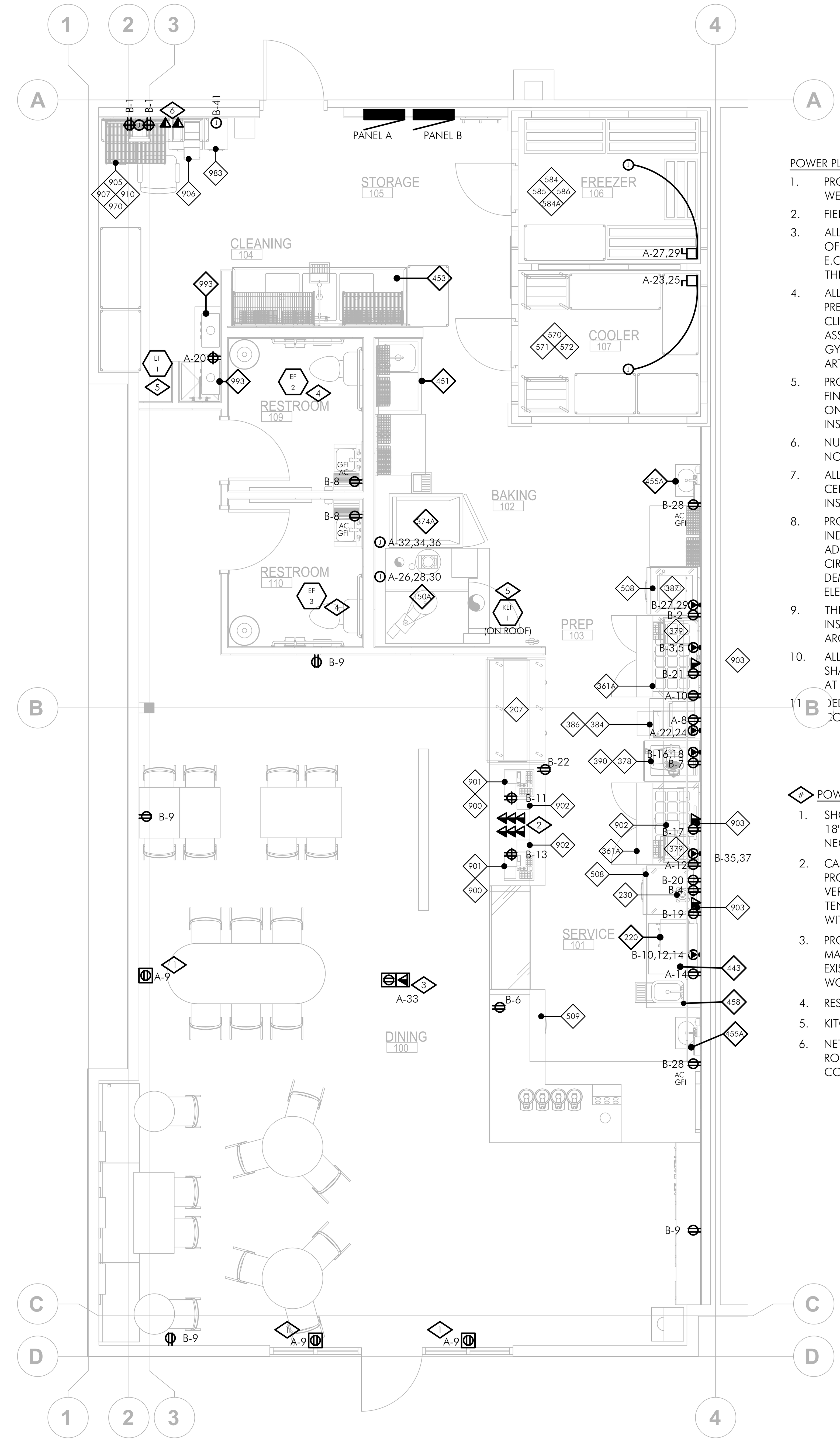
KITCHEN EQUIPMENT SCHEDULE

December 15, 2025

KEY	EQUIPMENT	LOAD HP,KW,FLA	MOCP Amp /P	VOLTS	Ø	BRANCH CKT. CONDUCTORS	COND.	CIRCUIT	DISCONNECT SWITCH	DISCONNECT FUSE	NOTES
RTU-1E	ROOFTOP UNIT 7.5-TON	43 MCA 50 MOCP	50 /3	208	3	4#6,#10G	1"	A-1,3,5	Verify	Verify	
RTU-2E	ROOFTOP UNIT 7.5-TON	43 MCA 50 MOCP	50 /3	208	3	4#6,#10G	1"	A-2,4,6	Verify	Verify	
KEF-1	KITCHEN EXHAUST FAN	552 W 20 MOCP	20 /1	115	1	2#12,#12G	3/4"	B-24	Verify	Verify	
EF-1,-2,-3	CEILING EXHAUST FAN	50 W 20 MOCP	20 /1	115	1	2#12,#12G	3/4"	B-24	Verify	Verify	

NOTES:

1. Field verify final location and electrical requirements of all equipment with provider prior to rough-in.
2. Provide line voltage controls and wiring as required. Field verify control requirements with provider.
3. Provide HACR breakers for all circuits serving equipment.



1 POWER PLAN
E1.0 SCALE: 1/8"=1'-0"

POWER PLAN GENERAL NOTES:

1. PROVIDE OUTLET WITHIN 25' OF EQUIPMENT IN ACCORDANCE WITH NEC 210-63. PROVIDE WEATHERPROOF GFI OUTLET ON ROOFTOPS WITHIN 25' OF ROOFTOP EQUIPMENT.
2. FIELD VERIFY FINAL LOCATION OF ALL EQUIPMENT WITH PROVIDER PRIOR TO ROUGH-IN.
3. ALL RECEPTACLES IN BATHROOMS, KITCHENS, ROOFTOPS, OUTDOORS, AND WITHIN 6FT. OF A SINK SHALL BE GFCI (OR SERVED BY A GFI CIRCUIT BREAKER) PER NEC 210.8(B). THE E.C. SHALL PROVIDE GFCI OUTLETS (OR CIRCUIT BREAKERS) IN ALL LOCATIONS REQUIRED BY THE NEC.
4. ALL RECEPTACLES IN DWELLING UNITS; GUEST ROOMS; CHILD CARE FACILITIES; PRESCHOOLS AND ELEMENTARY SCHOOLS; OFFICES, CORRIDORS AND WAITING ROOMS IN CLINICS, MEDICAL AND DENTAL OFFICES AND OUTPATIENT FACILITIES; SUBSET OF ASSEMBLY OCCUPANCIES PER 518.2 TO INCLUDE WAITING TRANSPORTATION, GYMNASIUMS, SKATING RINKS, AND AUDITORIUMS; DORMITORIES - (AS SPECIFIED BY ARTICLE 406.12 OF THE NEC) SHALL BE LISTED AS TAMPER-RESISTANT RECEPTACLES.
5. PROVIDE CONNECTION TO TENANT SIGN. FIELD VERIFY ELECTRICAL REQUIREMENTS AND FINAL LOCATION WITH PROVIDER, TENANT AND LANDLORD. PROVIDE PHOTOCELL ON/TIMECLOCK OFF CONTROLS. PROVIDE ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION.
6. NUMBERS NEXT TO DEVICES REFER TO CIRCUIT DESIGNATION IN UNIT PANEL UNLESS NOTED.
7. ALL TELE/DATA LOCATIONS SHALL INCLUDE 4" SQUARE J-BOX AND 3/4" CONDUIT TO CEILING SPACE. ALL TELEPHONE/DATA CABLE IS TO BE PLENUM RATED WIRE OR SHALL BE INSTALLED IN CONDUIT ABOVE CEILING OR IN WALLS.
8. PROVIDE ALL DEMOLITION WORK AS REQUIRED TO ACCOMMODATE THE NEW WORK AS INDICATED ON THE ELECTRICAL PLANS. FIELD VERIFY EXISTING CONDITIONS. PROVIDE ANY ADDITIONAL WORK NECESSARY AS REQUIRED TO PRESERVE EXISTING DEVICES AND BRANCH CIRCUIT COMPONENTS TO REMAIN. REFER TO THE ARCHITECTURAL PLANS FOR DEMOLITION SCOPE OF WORK AND VISIT THE SITE PRIOR TO BID TO DETERMINE THE ELECTRICAL SCOPE OF WORK REQUIRED.
9. THIS DESIGN IS DIAGRAMMATICAL. REFER TO MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION MANUALS FOR SPECIFIC LOCATIONS AND INSTALLATION DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS.
10. ALL REUSED MATERIALS OR EQUIPMENT SHALL BE IN GOOD CONDITION AND THE SYSTEM SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND IN GOOD WORKING ORDER AT THE COMPLETION OF THE PROJECT.
11. DEDICATED CIRCUITS SHALL BE WIRE WITH DEDICATED GROUND AND NEUTRAL CONDUCTORS.

<#> POWER PLAN KEYED NOTES:

1. SHOW WINDOW - PROVIDE FLUSH MOUNTED DUPLEX OUTLET IN CEILING OR WALL WITHIN 18" MAXIMUM ABOVE STOREFRONT FOR SHOW WINDOW LIGHTING IN ACCORDANCE WITH NEC 210.62.
2. CASH WRAP/POS - PROVIDE OUTLETS FOR POWER AND DATA IN MILLWORK AS REQUIRED. PROVIDE SEPARATE CIRCUIT WITH DEDICATED GROUND AND NEUTRAL CONDUCTOR. FIELD VERIFY CONDUIT ROUTING AND J-BOX LOCATIONS WITH MILLWORK PROVIDER AND TENANT PRIOR TO ANY ROUGH-IN. FIELD VERIFY DATA J-BOX AND RACEWAY REQUIREMENTS WITH TENANT IT REPRESENTATIVE.
3. PROVIDE POWER AND DATA FOR WIFI UNIT IN CEILING. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, ALL APPLICABLE CODES, AND THE AHJ. FIELD VERIFY EXISTING CONDITIONS, FINAL LOCATIONS, AND DEVICE REQUIREMENTS PRIOR TO ANY WORK.
4. RESTROOM EXHAUST FAN TO BE SWITCHED ON WITH ROOM LIGHTING.
5. KITCHEN EXHAUST FAN CONTROLLED BY TIME CLOCK. REFER TO DETAIL 3/E2.0.
6. NETWORK BOX 8" BELOW CEILING FOR DATA LINES. RUN LINES IN CONDUIT IN WALL TO ROUTE DATA LINES FROM CEILING TO J-BOX FOR NETWORK ACCESS. FIELD VERIFY EXISTING CONDITIONS, FINAL LOCATIONS, MOUNTING POSITION, AND ROUTING PRIOR TO WORK.

STATE OF MISSOURI
JOHN P. TINSLEY
PE-2007008506
PROFESSIONAL ENGINEER
12/15/2025

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PROJECT	DATE
25154.000 25-0119	12-15-2025
DRAWN	CHECKED
BKM	JPT

REVISED

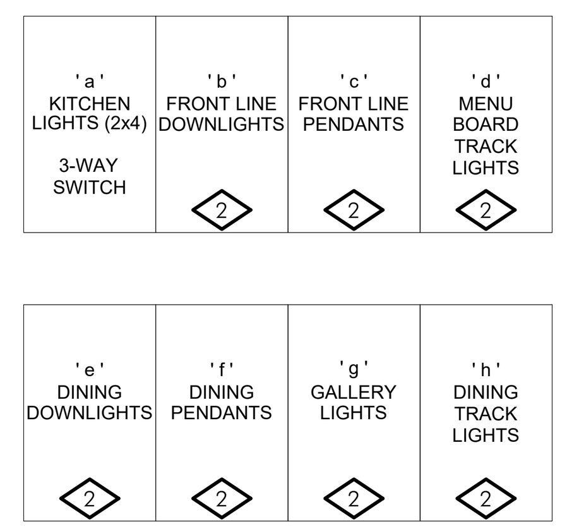
SHEET TITLE

POWER PLAN

SHEET

E1.0

ORIGINAL SHEET SIZE
24" x 36"



SWITCHBANK NOTES

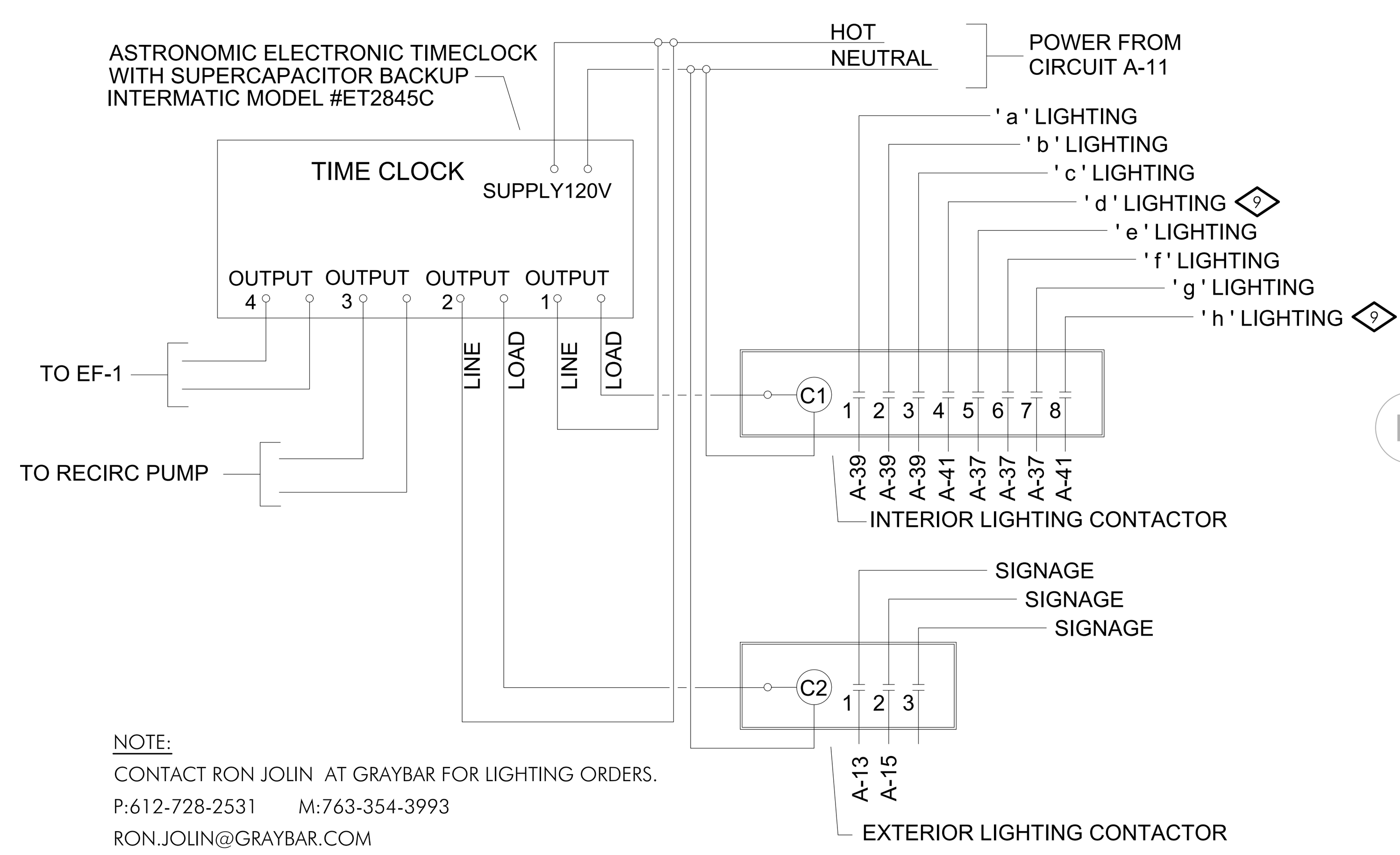
SEE FLOOR PLANS FOR THE FIXTURES CONTROLLED BY EACH SWITCH.

ALL SWITCHES SHALL BE LABELED.

PROVIDE DIVIDERS IN BOX FOR SEPARATION OF CIRCUITS.

2 E2.0 SWITCHBANK ELEVATION

SCALE: NONE



NOTE:
CONTACT RON JOLIN AT GRAYBAR FOR LIGHTING ORDERS.
P:612-728-2531 M:763-354-3993
RON.JOLIN@GRAYBAR.COM

3 E2.0 LIGHTING CONTROL DIAGRAM

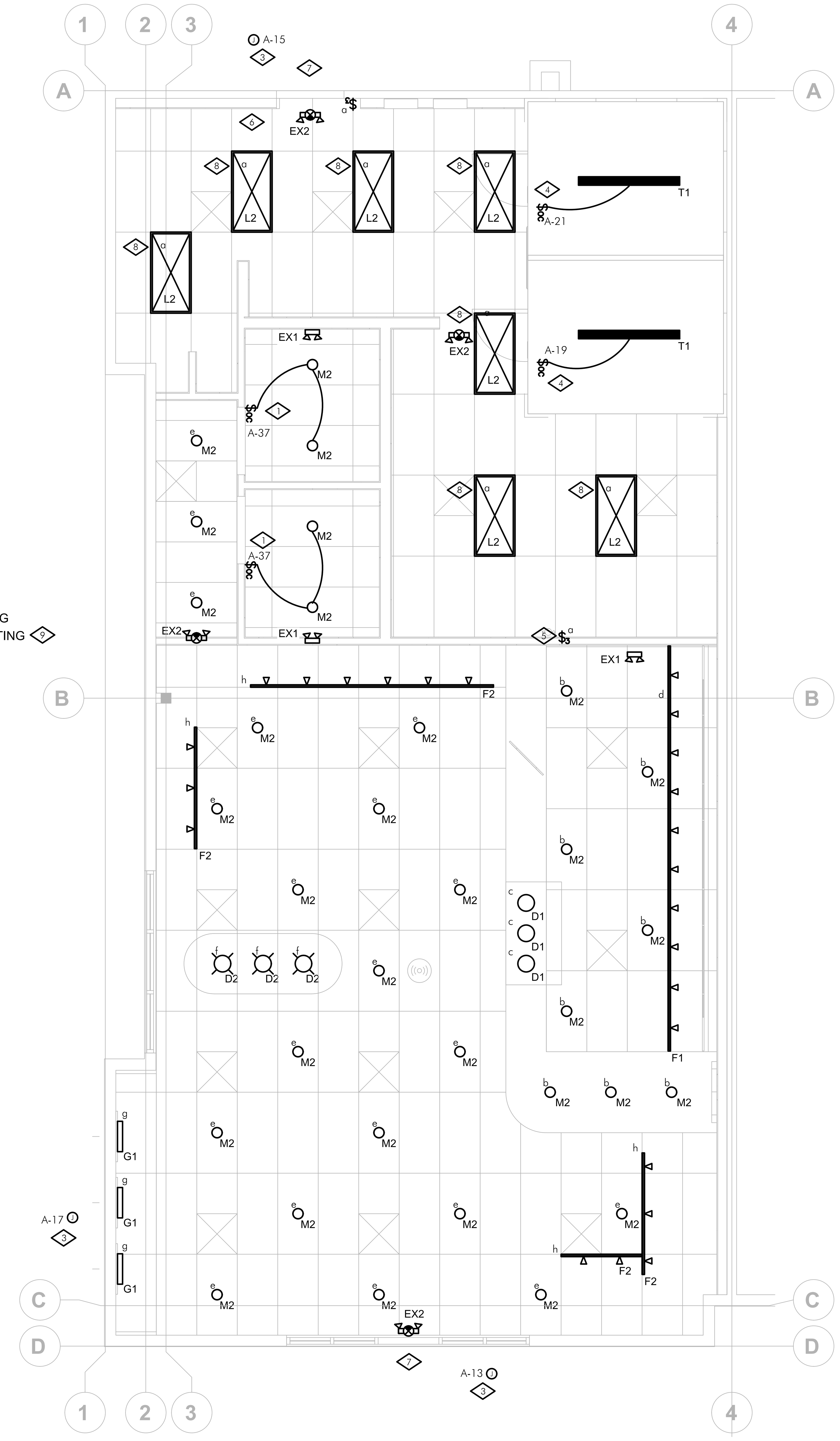
SCALE: NONE

LUMINAIRE SCHEDULE — December 15, 2025

KEY	DESCRIPTION	MFR. & CAT.NO.	LAMP	VOLTS	MOUNTING INFORMATION	NOTE
INTERIOR FIXTURES						
D1	10" PENDANT LIGHT VERIFY COLOR WITH ARCHITECT	LUMITHREE /PT-1082	14W LED INTEGRAL	120	SURFACE	
D2	16" PENDANT LIGHT VERIFY COLOR WITH ARCHITECT	LUMITHREE /PT-1077	LED 12 W	120	SURFACE	
F1	TRACK LIGHT (BLK) W/ SHATTERPROOF LED BULBS	CONTECH CTL610-B	30W/LED LAMP INTEGRAL	120/277	RECESSED	
F2	TRACK LIGHT (WHT) W/ SHATTERPROOF LED BULBS	CONTECH CTL610-P	30W/LED LAMP INTEGRAL	120/277	RECESSED	
G1	GALLERY LIGHT	KUZOC / WS10423-BK	16W LED INTEGRAL	120	SURFACE	
L2	2' x 4' LED TROFFER 0-10V DIM SHATTERPROOF	COOPER / METALUX 24GRLED1382X4RT	29W LED INTEGRAL	120/277	RECESSED	
M2	6" RECESSED DOWNLIGHT 2000 LUM SHATTERPROOF	LITHONIA LDN6-35/20-L06-AR-LSS-MVOLT-GZ10-HSG	22W LED INTEGRAL	120/277	RECESSED	
T1	WALK-IN LINEAR LIGHT VAPOR TIGHT LINEAR	G4 LED FXS 3500K 80-34-3695-105	28W LED INTEGRAL	120/277	RECESSED	
EX1	EMERGENCY LED LIGHT WALL MOUNTED	DUAL LITE EVR2-X	1.65W LED INTEGRAL	120/277	RECESSED	
EX2	EMERGENCY SIGN / LED LIGHT COMBO WALL MOUNTED	DUAL LITE EVC-U-R-X	1.65W LED INTEGRAL	120/277	RECESSED	

NOTES: (Notes apply to all fixtures where applicable)

1. EMERGENCY FIXTURES - All Fixtures Indicated as Emergency shall be provided with a 90-Minute Battery Pack and all Fluorescent Fixtures indicated as Emergency shall be provided with a 1300 Lumen, 90-Minute Battery Pack.
2. VERIFY VOLTAGES - The E.C. shall verify voltages on drawings prior to ordering or any work, the engineer shall be notified of any discrepancies in the voltage of the circuiting on the drawings and the luminaire schedule prior to any purchase or work.
3. VERIFY LAMPING - The E.C. shall verify lamping with the manufacturer prior to ordering and notify the engineer of any lamping discrepancies.
4. PROVIDE A COMPLETE INSTALLATION - The E.C. shall provide all labor and material to provide a complete and functional system per the design intent as dictated by the switching type and location (including dimmer switches and compatible ballasts or transformers), ceiling type and location, circuiting, voltages, and lamping types.
5. BALLAST DISCONNECT - All electric discharge luminaires shall comply with NEC 410.130 and shall have a means of disconnect for the ballast.
6. DUAL LEVEL SWITCHING - For fixtures with more than one switch designation shown on plans provide fixtures with additional ballasts for dual level light control by separate switching of inboard and outboard lamps as required to conform to IECC Requirements.
7. FOOD PREP AREAS - Provide shatter-resistant lamps or provide clear lenses on all fixtures located above all kitchen areas.



1 E2.0 LIGHTING PLAN

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

LIGHTING PLAN GENERAL NOTES:

1. CONNECT EGRESS LIGHTING FIXTURES AND EXIT SIGNS TO AREA LIGHTING CIRCUIT AHEAD OF ANY SWITCH PER NEC 700-12(F) INCLUDING ANY NIGHT LIGHTS. FIXTURES SHOWN SHADED OR LABELED ARE EMERGENCY EGRESS (EM) WITH BATTERY PACK, NIGHT LIGHT (NL) OR BOTH (EM/NL). REMOVE ANY HOUSE PANEL CIRCUITS SERVING EXISTING EMERGENCY AND EXIT LIGHTS AND RECONNECT TO THE TENANT PANEL.
2. PROVIDE OUTLET IN ACCESSIBLE LOCATION AT TENANT ENTRANCE FOR SIGN PER NEC 600-5.
3. NUMBERS NEXT TO DEVICES REFER TO CIRCUIT DESIGNATION IN UNIT PANEL UNLESS NOTED.
4. PER IECC 405.2, OCCUPANCY SENSOR CONTROLS SHALL BE CAPABLE OF MONITORING OCCUPANT ACTIVITY TO CONTROL LIGHT LEVELS BOTH WHEN OCCUPIED OR UNOCCUPIED, AND MONITORING AMBIENT LIGHT BOTH ELECTRIC AND DAYLIGHT TO CONTROL DESIRED LIGHT LEVEL. FOR EACH CONTROL STRATEGY, CONFIGURATION AND RECONFIGURATION OF PERFORMANCE PARAMETERS SHALL INCLUDE: BRIGHT AND DIM SETPOINTS, TIMEOUTS, DIMMING FADE RATES, SENSOR SENSITIVITY ADJUSTMENTS, AND WIRELESS ZONING CONFIGURATIONS. EXEMPT AREAS ARE SECURITY OR EMERGENCY AREAS; INTERIOR EXIT STAIRWAYS, RAMPS AND PASSAGEWAYS; EMERGENCY EGRESS LIGHTING THAT IS NORMALLY OFF.
5. PER IECC 405.2.1, OCCUPANCY SENSOR CONTROLS SHALL BE INSTALLED IN THE FOLLOWING SPACES: CLASSROOMS/LECTURE/TRAINING ROOMS, CONFERENCE/MEETING/MULTIPURPOSE ROOMS, COPY/PRINT ROOMS, LOUNGES/BREAKROOMS, ENCLOSED OFFICES, OPEN OFFICES, RESTROOMS, STORAGE ROOMS, LOCKER ROOMS, WAREHOUSE STORAGE AREAS, AND OTHER SPACES 300 SQUARE FEET OR LESS ENCLOSED BY FLOOR-TO-CEILING HEIGHT PARTITIONS.
6. PER IECC 405.2.1.1, OCCUPANT SENSOR CONTROL FUNCTION, EXCLUDING WAREHOUSES AND OPEN OFFICE SPACES, SHALL AUTOMATICALLY TURN OFF LIGHTS WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE. THEY SHALL BE MANUAL ON OR CONTROLLED TO AUTOMATICALLY TURN ON THE LIGHTING TO NOT MORE THAN 50% POWER (CORRIDORS, STAIRWAYS, RESTROOMS, PRIMARY ENTRANCES AND LOBBIES, AND AREAS WHERE MANUAL OPERATION WOULD ENDANGER THE OCCUPANTS OR SECURITY OF THE ROOM OR OCCUPANTS ARE EXEMPT). THEY SHALL ALSO INCORPORATE MANUAL CONTROLS TO ALLOW OCCUPANTS TO TURN OFF THE LIGHTING.
7. PER IECC 405.2.2, ANY AREA OF THE BUILDING NOT PROVIDED WITH AN OCCUPANT SENSOR CONTROL COMPLYING WITH SECTION 405.2.1.1 SHALL BE PROVIDED WITH TIMECLOCK CONTROLS COMPLYING WITH SECTION 405.2.2.1. EXCEPTION: WHERE MANUAL CONTROL PROVIDES LIGHT REDUCTION IN ACCORDANCE WITH SECTION 405.2.2.2, TIMECLOCK CONTROLS SHALL NOT BE REQUIRED IN THE FOLLOWING: SPACES WHERE PATIENT CARE IS DIRECTLY PROVIDED; SPACES WHERE AN AUTOMATIC SHUT-OFF WOULD ENDANGER OCCUPANT SAFETY OR SECURITY; LIGHTING INTENDED FOR CONTINOUS OPERATION; SHOP AND LABORATORY CLASSROOMS.
8. DAYLIGHT RESPONSIVE CONTROLS COMPLYING WITH IECC 405.2.3.1 SHALL BE PROVIDED WITHIN DAYLIGHT ZONES IN SPACES TOTALING MORE THAN 150W OF GENERAL LIGHTING WITHIN SIDELIT AND TOPLIT ZONES. PATIENT CARE FACILITIES, APPLICATION LIGHTING, AND SIDELIT ZONES IN FIRST FLOORS ABOVE GRADE IN GROUP A-2 AND GROUP M OCCUPANCIES ARE EXEMPT. TOPLIT ZONES AND SIDELIT ZONES MUST BE CONTROLLED INDEPENDENTLY FROM EACH OTHER. DAYLIGHT RESPONSIVE CONTROLS MUST BE CONFIGURED SUCH THAT THEY MAY BE CALIBRATED FROM WITHIN THE SPACE, AND CALIBRATION MECHANISMS MUST BE IN A LOCATION WITH EASY ACCESS. WHERE LOCATED IN OFFICES, CLASSROOMS, LABORATORIES AND LIBRARY READING ROOMS, CONTROLS SHALL DIM LIGHTS CONTINUOUSLY FROM FULL LIGHT TO 15% OF FULL OUTPUT OR LOWER. DAYLIGHT RESPONSIVE CONTROLS MUST BE CONFIGURED TO BE ABLE TO SHUT OFF ALL CONTROLLED LIGHTS. LIGHTS IN SIDELIT ZONES FACING DIFFERENT CARDINAL DIRECTIONS (NORTH, SOUTH, EAST, WEST) MUST BE CONTROLLED INDEPENDENTLY FROM EACH OTHER.
   - 8.1. SIDELIT DAYLIGHT ZONES EXTEND INTO THE SPACE 1 TIMES THE HEIGHT OF THE FENESTRATION TO THE NEAREST WALL, WHICHEVER IS SHORTER, AND ARE AS WIDE AS THE FENESTRATION PLUS 2'-0" ON THE END OR TO THE NEAREST WALL PER IECC 405.2.3.2.
   - 8.2. TOPLIT DAYLIGHT ZONES EXTEND IN ALL DIRECTIONS FROM THE EDGE OF THE ROOF FENESTRATION UP TO 0.7 TIMES THE CEILING HEIGHT, OR TO THE NEAREST OBSTRUCTION 0.7 TIMES THE CEILING HEIGHT PER IECC 405.2.3.3.
9. EACH SWITCH, LIGHT, RECEPTACLE AND ALL OTHER DEVICES SHALL BE PROVIDED AND INSTALLED WITH A GALVANIZED OR SHERARDIZED PRESSED STEEL JUNCTION BOX OF NOT LESS THAN NO. 14 U.S. GAUGE STEEL CONDUITS SHALL BE FASTENED WITH LOCKNUTS AND BUSHINGS AND ALL UNUSED KNOCKOUTS MUST BE LEFT SEALED. THERE MUST BE SUFFICIENT ROOM FOR WIRES AND BUSHINGS, THE MINIMUM DEPTH SHALL BE 2.5", DEEP BOXES SHALL BE INSTALLED WHERE REQUIRED. BOXES SHALL BE SECURELY AND ADEQUATELY SUPPORTED.
10. THIS DESIGN IS DIAGRAMMATICAL. REFER TO MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION MANUALS FOR SPECIFIC LOCATIONS AND INSTALLATION DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS.
11. ALL REUSED MATERIALS OR EQUIPMENT SHALL BE IN GOOD CONDITION AND THE SYSTEM SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND IN GOOD WORKING ORDER AT THE COMPLETION OF THE PROJECT.
12. DEDICATED CIRCUITS SHALL BE WIRE WITH DEDICATED GROUND AND NEUTRAL CONDUCTORS.

LIGHTING PLAN KEYED NOTES:

1. WALLBOX OCCUPANCY SENSOR - PROVIDE DUAL TECHNOLOGY COOPER GREENGATE ONW-D-1001-MV OR EQUAL.
2. WALLBOX DIMMER SWITCH - PROVIDE COOPER - EATON SF10P-* OR EQUAL RATED FOR CONNECTED LOAD TYPE AND WATTAGE.
3. TENANT SIGN - PROVIDE DEDICATED CIRCUIT AND FINAL CONNECTIONS AS REQUIRED. FIELD VERIFY ELECTRICAL REQUIREMENTS AND FINAL LOCATION WITH PROVIDER, TENANT AND LANDLORD. PROVIDE PHOTOCELL ON/TIMECLOCK OFF CONTROLS.
4. WALK-IN FREEZER/COOLER PROVIDER TO FURNISH APPROPRIATE OCCUPANCY SENSOR LIGHTING CONTROL TO TURN OFF LIGHT WITHIN 15 MINUTES OF THE SPACE BEING UNOCCUPIED PER IECC C403.
5. PROVIDE SWITCHBANK WITH TIMECLOCK CONTROLS FOR CONTROL OF LIGHTING AS SHOWN IN DETAIL 2/E2.0.
6. LOCATION OF TIME CLOCK CONTROLS FOR ANY REQUIRED LIGHTING AND SIGNAGE. REFER TO DETAIL 3/E2.0. VERIFY LOCATION AND MOUNTING HEIGHT WITH TENANT AND ARCHITECT PRIOR TO INSTALLATION.
7. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND PROVIDE NEW EMERGENCY EXTERIOR EGRESS LIGHT TO MATCH EXISTING BUILDING STANDARDS IF NONE ARE EXISTING.
8. CONTRACTOR TO VERIFY ALL LIGHTING FIXTURES ARE PRODUCING 3000K LIGHTING.
9. PROVIDE TRACK LIGHTING CIRCUIT WITH 1 AMP CURRENT LIMITER.

STATE OF MISSOURI — JOHN P. TINSLEY — PE-2007008506 — PROFESSIONAL ENGINEER — 12/15/2025

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PROJECT	DATE
25154.000 25-0119	12-15-2025
DRAWN	CHECKED
BKM	JPT

REVISED

SHEET TITLE

LIGHTING PLAN

SHEET

E2.0

ORIGINAL SHEET SIZE
24" x 36"

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Einstein Bros. Bagels - Lees Summit, MO
Project Type: New Construction

Construction Site:
410 NW Chipman Rd, Tenant A
Lees Summit, Missouri 64086

Owner/Agent:

Designer/Contractor:
John Tinsley
kVA Consulting
327 Inverness Drive South, Ste 316
Englewood, Colorado 80112
303-646-4770
John@kVAconsulting.net

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Dining: Cafeteria/Fast Food	1727	0.76	1313
		Total Allowed Watts =	1313

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Dining: Cafeteria/Fast Food				
LED: D1: 10" Pendant: Other:	1	3	14	42
Track Lighting: Wattage based on current limiting device capacity	0	0	240	240
LED: G1: Gallery Light: Other:	1	3	16	48
LED: M2: 6" DOWNLIGHT: Other:	1	32	22	704
LED: D2: 16" Pendant: Other:	1	3	12	36
LED: L2: 2 X 4 TROFFER: Other:	1	7	29	203
			Total Proposed Watts =	1273

Interior Lighting PASSES: Design 3% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Einstein Bros. Bagels - Lees Summit, MO
Location: Lees Summit, Missouri
Climate Zone: 4a
Project Type: New Construction

Construction Site:
410 NW Chipman Rd, Tenant A
Lees Summit, Missouri 64086

Owner/Agent:

Designer/Contractor:
John Tinsley
kVA Consulting
327 Inverness Drive South, Ste 316
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Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Mechanical Systems List

Quantity	System Type & Description
2	Water Heater: Gas Instantaneous Water Heater, Capacity: 1 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 0.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][3]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.6.1, C404.6.2 [PL3][1]	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.6.3 [PL7][3]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.6.1, C404.6.1.1 [PL8][3]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41][3]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.9 [ME144][2]	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.2 [ME115][3]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.5 [ME116][3]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.4 [ME63][2]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.2.1 [ME53][3]	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.11.3.1, C403.11.3.1, C403.11.3.2 [ME123][3]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2..	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2, C405.2.2.1 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.5 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.3 [FI11][3]	Heat traps installed on supply and discharge piping of non-circulating systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.4 [FI25][2]	All piping insulated in accordance with section details and Table C403.12.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.6.1 [FI12][3]	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.1.1 [FI57][3]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.5 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

STATE OF MISSOURI
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PROFESSIONAL ENGINEER
12/15/2025

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PROJECT	DATE
25154.000 25-0119	12-15-2025
DRAWN BWM	CHECKED JPT

REVISED

SHEET TITLE
ENERGY COMPLIANCE DOCUMENTS

SHEET
EN1
ORIGINAL SHEET SIZE 24" x 36"

MECHANICAL SPECIFICATIONS

THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT, GENERAL CHARACTER, AND LOCATION OF THE WORK INCLUDED. OFFSETS AND/OR CHANGES IN ELEVATION OF PIPING AND DUCTWORK DUE TO STRUCTURAL OR OTHER INTERFERENCES SHALL BE PROVIDED WITHOUT EXTRA COST.

VERIFY AND EVALUATE ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE AND OPERATING SYSTEM. PROVIDE CONTROL WIRING NECESSARY FOR THE OPERATION OF THE MECHANICAL SYSTEMS INDICATED ON THE MECHANICAL DRAWINGS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THERMOSTATS.

ENTIRE NEW WORK INSTALLATION SHALL CONFORM WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF MUNICIPAL, STATE AND FEDERAL AUTHORITIES INCLUDING: THE INTERNATIONAL BUILDING, MECHANICAL, AND ENERGY CONSERVATION CODES; ANY AND ALL LOCAL AMENDMENTS ADOPTED AND ENFORCED BY THE LOCAL JURISDICTION; ASME; ASTM; ASHRAE; SMACNA; AND NFPA.

WHERE REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES. PRIOR TO FINAL ACCEPTANCE, FURNISH THE ARCHITECT/OWNER WITH CERTIFICATES OF INSPECTION AND APPROVALS BY LOCAL AUTHORITIES.

PROVIDE ALL DAMPER CONTROL HANDLES, ELECTRIC CONTROLS, AIR CONTROLS, MECHANICAL EQUIPMENT, AND OTHER APPARATUS THAT MUST BE PROVIDED IN AN INACCESSIBLE LOCATION WITH SUITABLE ACCESS DOORS OR COVERS IN A FRAMED OPENING, WHICH WILL PERMIT PROPER OPERATION AND SERVICING.

BEFORE ACCEPTANCE AND FINAL PAYMENT, DEMONSTRATE THAT ALL APPARATUS ARE FUNCTIONING PROPERLY AND EFFICIENTLY. STARTUPS AND ADJUSTMENTS FOR THE FIRST HEATING AND THE FIRST COOLING SEASON SHALL BE INCLUDED IN THE BID.

SYSTEM, MATERIAL, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE. REPLACE ALL DEFECTIVE WORKMANSHIP, EQUIPMENT AND MATERIALS WITHOUT ADDITIONAL CHARGES, INCLUDING REFRIGERANT THAT IS LOST DURING RELATED REPAIRS.

TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST CURRENT ASHRAE HANDBOOK OF HVAC APPLICATIONS, CHAPTER 36. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO:
* BALANCING AIR DISTRIBUTION SYSTEMS
* ADJUSTING THE TOTAL SYSTEM TO PROVIDE DESIGN QUANTITIES
* ELECTRICAL MEASUREMENT
* ESTABLISHING QUANTITATIVE PERFORMANCE OF ALL HVAC EQUIPMENT
* VERIFYING AUTOMATIC CONTROLS

ADJUST AIR FLOWS FOR TERMINALS TO WITHIN +/- 10%. ADJUST AIR FLOWS IN DUCT MAINS TO WITHIN +/- 5%, USING THE PITOT-TUBE TRANSVERSE METHOD. FURNISH TO THE ARCHITECT, FIVE (5) COPIES OF THE TESTING AND BALANCING REPORT.

DUCTWORK SHALL BE GALVANIZED STEEL, CONSTRUCTED, INSTALLED, AND SUPPORTED IN ACCORDANCE WITH THE "SMACNA" APPLICABLE MANUALS. ALL DUCTWORK SHALL BE THE LOW VELOCITY TYPE, UNLESS OTHERWISE SPECIFIED. WHERE DUCTWORK IS EXPOSED TO VIEW, SUPPORT WITH THREADED ROD HANGER AND UNISTRUT. UNISTRUT SHALL HAVE (HOT-DIPPED GALVANIZED, GREEN) FACTORY FINISH.

ALL DUCT TAKE-OFFS SHALL BE PROVIDED WITH A MANUAL DAMPER. SUFFICIENT MANUAL DAMPERS SHALL BE PROVIDED AND INSTALLED FOR BALANCING OF THE SUPPLY AIR SYSTEM AND THE OUTSIDE AIR/ RETURN AIR SYSTEMS.

ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS AND SHALL PROVIDE EXTRA MATERIALS REQUIRED FOR A PROPER INSTALLATION.

DUCT JOINTS FOR LOW PRESSURE DUCTWORK SHALL BE SEALED TO MEET THE SMACNA 1" W.C. PRESSURE CLASSIFICATION. SEAL ALL TRANSVERSE JOINTS WITH IRON-GRIP 601 AS MANUFACTURED BY HARDCAST. APPLY PER MANUFACTURER'S INSTRUCTIONS. DUCT TAPE IS NOT AN ACCEPTABLE MEANS OF SEALING DUCTS. EXCEPTION: DO NOT SEAL EXPOSED DUCTWORK.

DUCT DIMENSIONS SHOWN ARE SHEET METAL OR WHERE LINED INTERNAL DIMENSIONS (UNLESS OTHERWISE NOTED). DUCT DIMENSIONS MAY BE CHANGED IF THE NET FREE FACE AREA IS MAINTAINED.

ALL DUCT CONNECTIONS TO FAN DRIVEN UNITS SHALL BE MADE WITH 4-IN. LONG FIREPROOF FLEXIBLE DUCT CONNECTOR FOR VIBRATION SOUND ISOLATION.

CONDENSATE PIPING ABOVE THE ROOF SHALL BE PVC PIPE, ASTM D 2665, SOLID-WALL DRAIN, WASTE AND VENT PIPING WITH PVC SOCKET FITTINGS COMPLYING WITH ASTM D 2665, SOCKET TYPE, MADE TO ASTM D 3311, DRAIN, WASTE, AND VENT PATTERNS. FOR EACH ROOFTOP UNIT, PROVIDE TRAP AT CONDENSATE CONNECTION AND PIPE TO NEAREST ROOF DRAIN OR SCUPPER INLET.

THIS WORK SHALL BE PERFORMED IN A CLEAN AND PROFESSIONAL MANNER. CARE SHALL BE EXERCISED TO MINIMIZE INCONVENIENCE OR DISTURBANCE TO OTHER TRADES DURING CONSTRUCTION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DEBRIS WITHIN THE CONSTRUCTION AREA. CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.

FIELD VERIFY ALL DIMENSIONS, EXISTING CONDITIONS, AND BUILDING POWER, VOLTAGE, AND PHASE PRIOR TO ORDERING EQUIPMENT AND PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE OWNER AND MECHANICAL ENGINEER IMMEDIATELY FOR RESOLUTION.

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS/HER OWN PROPERTY ON THE JOB SITE. THE OWNER OR TENANT ASSUMES NO RESPONSIBILITY FOR PROTECTION OF THIS CONTRACTOR'S PROPERTY AGAINST FIRE, THEFT, OR ENVIRONMENTAL CONDITIONS.

WHERE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE RATED FLOORS, WALLS, OR PARTITIONS, THE SLEEVES SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS U.L. LISTED (EQUAL TO DOW CORNING) AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THE SERVICE. THIS MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS IN ORDER TO MAINTAIN THE FIRE RATING OF THE PENETRATED WALL, FLOOR, OR PARTITION. INSTALLATION SHALL BE A THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 AND UL 1479. THE FIRE RATING SHALL MATCH THE RATING OF THE BARRIER BEING PENETRATED.

SUBMIT (1) PDF FILE OR SIX (6) SETS OF SHOP DRAWINGS, CONTROL DIAGRAMS, AND EQUIPMENT CUTS TO THE MECHANICAL ENGINEER FOR APPROVAL PRIOR TO STARTING RELATED WORK. UPON COMPLETION OF CONSTRUCTION, SUPPLY THE MECHANICAL ENGINEER WITH ONE COMPLETE SET OF FULL SIZE AS-BUILT DRAWINGS AND ONE FULL SIZED PDF FILE. PROVIDE THE OWNER WITH (1) PDF AND THREE (3) SETS OF OPERATION AND MAINTENANCE MANUALS FOR EACH TYPE OF EQUIPMENT INSTALLED.

SUBMISSION OF PROPOSAL IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE. NO EXTRA CHARGE WILL BE ALLOWED FOR CHANGES AS A RESULT FROM FAILURE TO EXAMINE THE JOB SITE.

THIS CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THIS CONTRACT, SHALL BE RESPONSIBLE FOR WORKER'S IDENTIFICATION AND BADGING, SAFETY, AND LIABILITY INSURANCE. PROVIDE BARRICADES, WARNING SIGNS, AND TRASH REMOVAL FOR THE SAFETY OF THE WORKERS UNDER THIS CONTRACTOR'S EMPLOY.

THIS CONTRACTOR SHALL ASSUME ALL ADDED EXPENSES TO ALL TRADES ASSOCIATED WITH THE INSTALLATION OF SUBMITTED AND APPROVED ALTERNATE EQUIPMENT.

DUCT INSULATION:

RECTANGULAR SUPPLY AND RETURN DUCTWORK CONCEALED ABOVE CEILINGS SHALL BE, INSULATED WITH A MINIMUM INSTALLED R-VALUE OF 6, INTERNALLY LINED WITH ACOUSTICAL LINER EQUAL TO JOHNS MANVILLE LINACOUSTIC RC FIBERGLASS DUCT LINER WITH REINFORCED COATING SYSTEM 1-1/2 INCHES THICK, R-6.3, NFPA 90A AND 90B COMPLIANT.

ROUND SUPPLY AND RETURN AIR DUCTWORK CONCEALED ABOVE CEILINGS SHALL BE INSULATED WITH FIBERGLASS DUCT INSULATION WITH FSK FACING EQUAL TO JOHNS MANVILLE MICROLITE, 100# DENSITY, 2 INCHES THICK, WITH A MINIMUM INSTALLED R-VALUE OF 6. INSTALL PER MANUFACTURER'S PUBLISHED INSTRUCTIONS. DUCTWORK THAT IS ACOUSTICALLY LINED DOES NOT REQUIRE EXTERIOR INSULATION.

EXTERIOR DUCTWORK SHALL BE INSULATED WITH A MINIMUM INSTALLED R-VALUE OF 12.

EXPOSED DUCTWORK WITHIN CONDITIONED SPACE SHALL NOT BE EXTERNALLY INSULATED. CLEAN AND PREP FOR PAINTING (PAINT BY OTHERS).

OUTSIDE AIR DUCTS SHALL BE INSULATED; WHERE EXPOSED, THE INSULATION SHALL BE INTERNAL LINER.

WHERE DUCTWORK IS NOTED TO BE INSULATED DIFFERENTLY ON THE DRAWINGS (i.e. EXTERNAL INSULATION ON RECTANGULAR DUCTWORK), THE CORRESPONDING INSULATION SPECIFICATIONS ABOVE SHALL APPLY.

CODE COMPLIANCE STATEMENT

THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES:

- INTERNATIONAL MECHANICAL CODE : 2018
- INTERNATIONAL ENERGY CONSERVATION CODE (IECC) : 2018

SCOPE OF WORK:

1. PROVIDE AND INSTALL ALL DUCT WORK, DIFFUSERS, GRILLES, AND CONNECT TO EXISTING RTUS FOR A COMPLETE TENANT FINISH.
2. PROVIDE AND INSTALL NEW EXHAUST FANS AND ASSOCIATED DUCTING AS SHOWN.
3. PROVIDE AND INSTALL CONCENTRIC VENTS FOR EACH WATER HEATER.

H.V.A.C. LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY DUCT UP		SIDE CONNECTION OF ROUND DUCT
	SUPPLY DUCT DN		TOP (OR BOTTOM) CONN OF ROUND DUCT
	RETURN OR EXHAUST DUCT UP		VOLUME DAMPER (TYP)
	RETURN OR EXHAUST DUCT DN		SIDE CONNECTION OF RECTANGULAR DUCT
(E)	EXISTING		FIRE DAMPER
	INSUL FLEX ROUND DUCT	12x12	INSIDE CLEAR INSULATION DIMENSION
	TRUNK DUCT ELBOW (TURNING VANES REQ'D)	RTU 1	EQUIPMENT MARK (SEE SCHEDULES)
			CONNECT NEW TO EXISITNG

BUILDING AIR BALANCE SCHEDULE (CFM)

TAG	SUPPLY AIR	RETURN AIR	EXHAUST AIR	OUTSIDE AIR	OUTSIDE AIR %	BUILDING PRESSURE
KEF-1	--	--	900	--	--	-900
EF-1			70			-70
EF-2			70			-70
EF-3			70			-70
RTU-1	3,000	2,400	--	600	20	600
RTU-2	3,000	2,400	--	600	20	600
TOTALS	6,000	4,800	900	1,200	--	90

NOTES:
1. BUILDING IS UNDER POSITIVE PRESSURE TO COMPLY WITH SECTION 508.1 OF THE IMC.
2. RTUS WILL BE PROVIDED WITH BAROMETRIC RELIEF.

DIFFUSER, REGISTER & GRILLE SCHEDULE

Mark(s)	Manufacturer / Model No.	DESCRIPTION	CONSTRUCTION	NOM. CFM	SIZE	MOUNTING	REMARKS
CD1	Titus TMS or equal	T-Bar Ceiling Diffuser	Steel	See Plans	24"x24"	T-Bar Lay-in	Paintable, color per Architect
CD2	Titus TMS or equal	T-Bar Ceiling Diffuser	Steel	See Plans	12"x12"	T-Bar Lay-in	Flush face no pattern controllers
RG1	Titus PAR or equal	T-Bar Return Grille	Steel	See Plans	24"x24"	T-Bar Lay-in	

EXHAUST FAN SCHEDULE

MARK(S)	MANUFACTURER/MODEL	LOCATION	SERVING	CFM	ESP in	MOTOR Watts or HP	MOTOR Voltage & Phase	MOTOR RPM	Damper Type	Fan Control	ROOF OPENING in x in	WEIGHT lbs.	NOTES lbs.
KEF-1	FANTECH 5DDD 10AA	Roof	Cook Line	900					Backdraft	E (w/OVEN)			1,8
EF-1	GREENHECK SP-A90	CEILING	MOP SINK	70	0.27	15	115/1	900	Backdraft	B	--	12	1,2,3,6
EF-2	GREENHECK SP-A90	CEILING	RESTROOM	70	0.27	15	115/1	900	Backdraft	B	--	12	1,2,3,6
EF-3	GREENHECK SP-A90	CEILING	RESTROOM	70	0.27	15	115/1	900	Backdraft	B	--	12	1,2,3,6

NOTES: 1. Intergral gravity backdraft damper 2. Ducted from fan outlet to roof 3. SMACNA approved roof cap 4. Ducted from fan outlet to wall 5. Wall exhaust louver, see plans for size 6. 1/4" galv. mesh birdscreen 7. 12" Manufacturer's roof curb 8. 18" Manufacturer's ventilated roof curb

FAN CONTROL: A. Separate wall switch B. Switch on with lights C. 24/7 time clock to operate during occupied times D. Continuous operation E. Interlock with equipment (Marks shown)

ROOFTOP UNIT SCHEDULE

Mark(s)	Manufacturer / Model No.	NOM. TONS	EER	SEER	COOLING Sens	COOLING Total	AMB. AIR TEMP	HEATING DB °F	HEATING WB °F	HEATING Input MBH (SL)	HEATING Output MBH (SL)	SUPPLY FAN CFM	SUPPLY FAN ESP	SUPPLY FAN (HP)	ELECTRICAL VOLTAGE & PHASE	ELECTRICAL MCA	ELECTRICAL MOCP	SIZE LENGTH (IN)	SIZE WIDTH (IN)	SIZE HEIGHT (IN)	SIZE WEIGHT (LBS)
RTU-1E	EXISTING LENNOX LGT092	**7.5**	12.3	15.7	74.4	93	100	80	67	180	146	3000	0.75	EXISTING	208/3	43	50	EX	EX	EX	1440
RTU-2E	EXISTING LENNOX LGT092	**7.5**	12.3	15.7	74.4	93	100	80	67	180	146	3000	0.75	EXISTING	208/3	43	50	EX	EX	EX	1440

NOTES:
1. Provide duct mounted smoke detectors in supply and return ducts per code when unit supplies are equal or greater than 2000 CFM.
2. Provide 14" in. high manufacturer's roof curb, flash and seal to roof.
3. Provide 100% enthalpy controlled economizer, with integral barometric relief set to minimum outside air requirements as shown on Ventilation Schedule.
4. Provide Honeywell T-7300 programmable thermostat with locking cover.
5. Provide louvered hail guards on all units.
6. Provide electrical convenience outlet and HACR disconnect.

VENTILATION SCHEDULE

(PER IMC, TABLE 403.3) ROOM NAME(S)	OCCUPANCY CLASSIFICATION	NOTES	ROOM AREA (SF)	PERSONS PER 1000 SF	Rp PEOPLE AIRFLOW	Ra ZONE AIRFLOW	Exhaust AIRFLOW RATE CFM/SF	TOTAL PERSONS	ZONE Ez	OUTSIDE AIR PER SQ. FT. PER IMC*	OUTSIDE AIR REQUIRED (CFM)	%OSA OF SUPPLYING RTU (CFM)	MIN SUPPLY REQUIRED (CFM)	SUPPLY PROVIDED (CFM)	MIN EXHAUST REQUIRED (CFM)	EXHAUST PROVIDED (CFM)
ENTRY	MAIN ENTRY LOBBIES		172	10	5	0.06	0	2	0.8	0.14	23.65	20%	118	300		
DINING	DINING ROOMS		399	70	7.5	0.18	0	28	0.8	0.88	351.62	20%	1758	2100		
SERVICE	SALES (except as below)		259	15	7.5	0.12	0	4	0.8	0.29	75.27	20%	376	600		
PREP / BAKING	KITCHENS (COOKING)	b	217	20	7.5	0.12	0.7	5	0.8	0.34	73.24	20%	366	1260	151.9	975
BOH	OFFICE SPACES		353	5	5	0.06	0	2	0.8	0.11	37.51	20%	188	1500		
RESTROOM	TOILET ROOMS (Public, Intermittent Exh.)	e,g	49	0	0	0	70	0	0			20%		60	70	70
RESTROOM	TOILET ROOMS (Public, Intermittent Exh.)	e,g	49	0	0	0	70	0	0			20%		60	70	70
CORRIDOR	CORRIDORS		193	0	0	0.06	0	0	0.8	0.08	14.48	20%	72	120		

* OUTSIDE AIR PER SQ. FT. CALCULATED BY THE USE OF EQUATION 4-1 AND EQUATION 4-2 OF IMC.
NOTES:
a. Based upon net occupiable floor area.
b. Mechanical exhaust required and the recirculation of air from such spaces is prohibited (see Section 403.2.1, Item 3).
c. Spaces unheated or maintained below 50°F are not covered by these requirements unless the occupancy is continuous.
d. Ventilation systems in enclosed parking garages shall comply with Section 404.
e. Rates are per water closet or urinal. The higher rate shall be provided where the exhaust system is designed to operate intermittently. The lower rate shall be permitted only where the exhaust system is designed to operate continuously while occupied.
f. Rates are per room unless indicated. The higher rate shall be provided where the exhaust system is designed to operate intermittently. The lower rate shall be permitted only where the exhaust system is designed to operate continuously while occupied.
g. Mechanical exhaust is required and recirculation is prohibited except that recirculation shall be permitted where the resulting supply airstream consists of not more than 10 percent air recirculated from these spaces (see Section 403.2.1, Items 2 and 4).
h. For nail salons, each nail station shall be provided with a source capture system capable of exhausing not less than 50 cfm per station.

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12/15/2025

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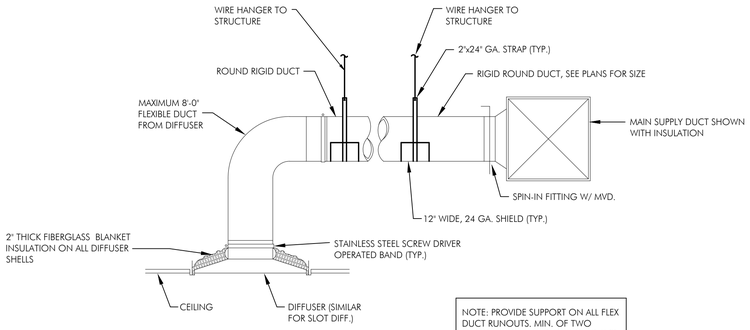
PROJECT	DATE
25154.000 25-0119	12-15-2025
DRAWN	CHECKED
GWM	JPT

REVISED

SHEET TITLE
MECHANICAL NOTES & SCHEDULES

SHEET
M0.0

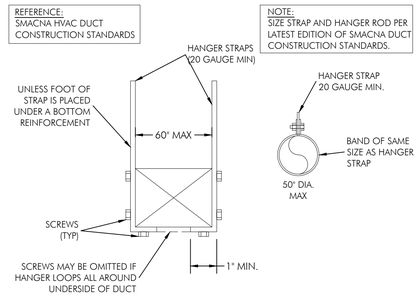
ORIGINAL SHEET SIZE 24" x 36"



NOTE: PROVIDE SUPPORT ON ALL FLEX DUCT RUNOUTS. MIN. OF TWO SUPPORTS ON FLEX DUCTS OVER 6'-0" IN LENGTH

2 / M0.1 DIFFUSER CONNECTION DETAIL

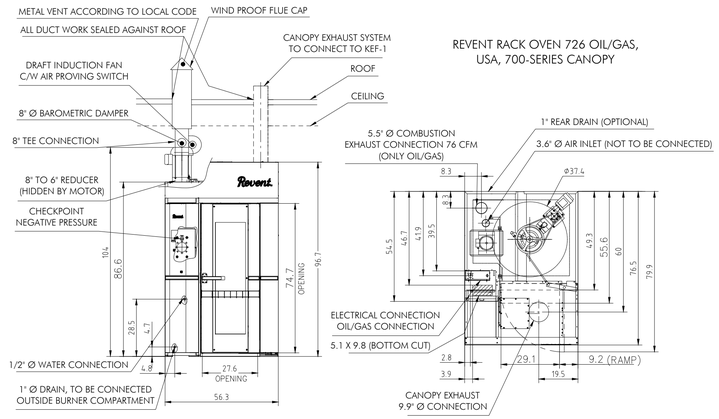
SCALE: NTS



1 / M0.1 DUCT HANGER DETAIL

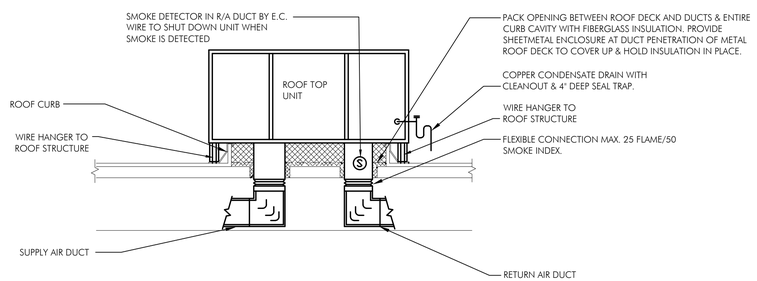
SCALE: NONE

CONTRACTOR SHALL PROVIDE DUCT HANGERS AND CONNECTION TO STRUCTURE AS PART OF MECHANICAL SUBMITTAL.



4 / M0.1 OVEN VENTILATION DETAIL

SCALE: NTS



3 / M0.1 ROOF TOP UNIT DETAIL

SCALE: NTS

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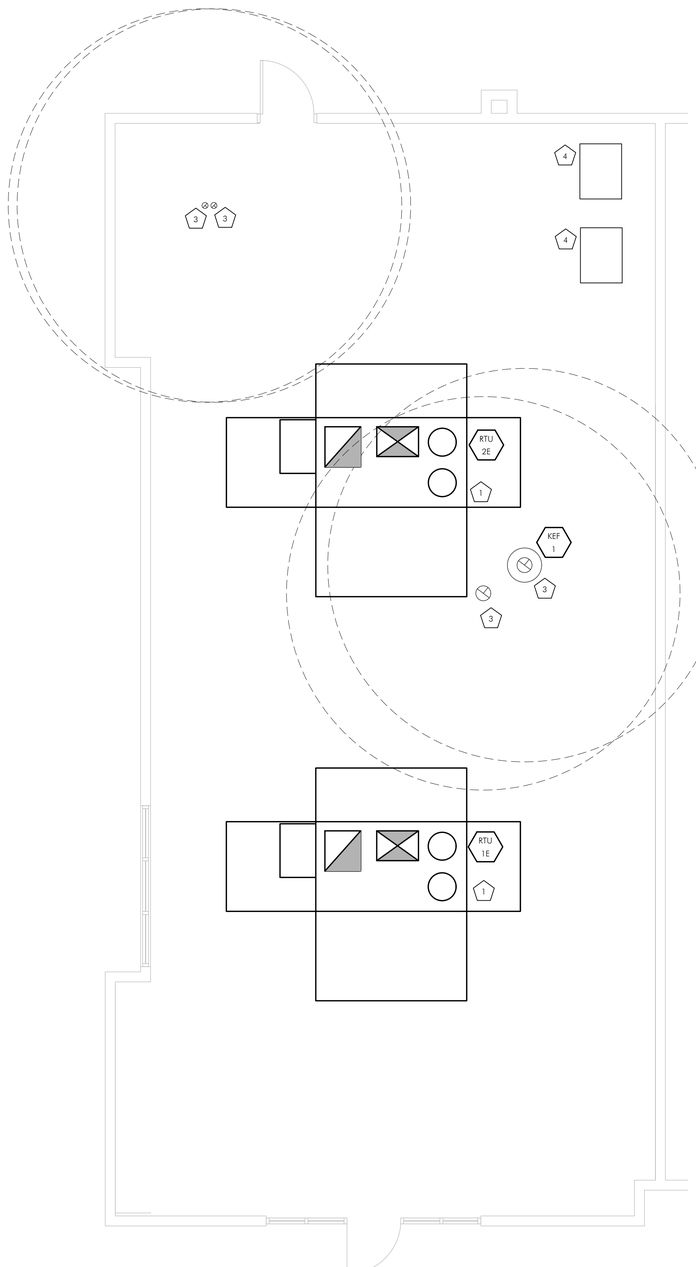
SHEET TITLE

MECHANICAL DETAILS

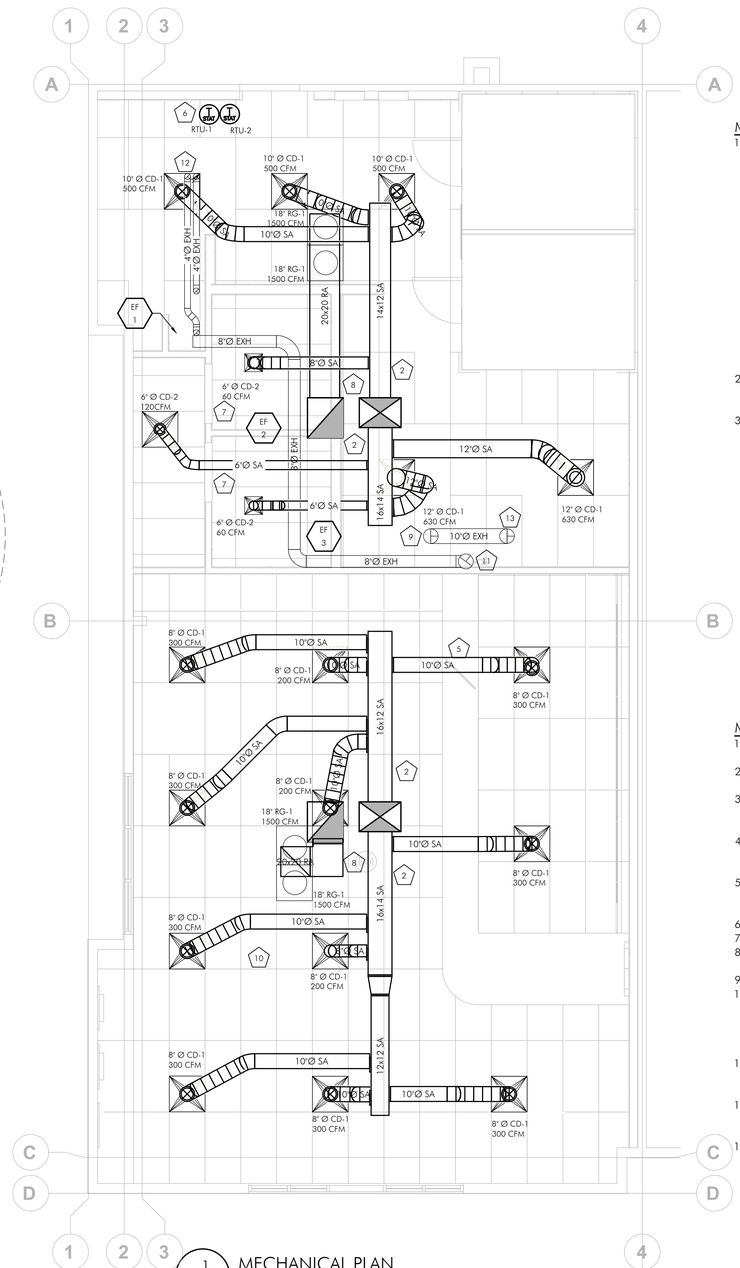
SHEET

M0.1

ORIGINAL SHEET SIZE
24" x 36"



2 M1.0 MECHANICAL ROOF PLAN
SCALE:1/4"=1'-0"



1 M1.0 MECHANICAL PLAN
SCALE:1/4"=1'-0"

NOTE
GENERAL CONTRACTOR TO COORDINATE MECHANICAL RUNS WITH EXISTING STRUCTURAL. CONTACT ARCHITECT WITH CONFLICTS.

MECHANICAL GENERAL NOTES

1. THE EXHAUST OUTLETS SHALL BE LOCATED NOT LESS THAN 10 FEET (3048 MM) HORIZONTALLY FROM PARTS OF THE SAME OR CONTIGUOUS BUILDINGS, ADJACENT BUILDINGS AND ADJACENT PROPERTY LINES AND SHALL BE LOCATED NOT LESS THAN 10 FEET (3048 MM) ABOVE THE ADJOINING GRADE LEVEL. EXHAUST OUTLETS SHALL BE LOCATED NOT LESS THAN 10 FEET (3048 MM) HORIZONTALLY FROM OR NOT LESS THAN 3 FEET (914 MM) ABOVE AIR INTAKE OPENINGS INTO ANY BUILDING. THE EXCEPTION IS: EXHAUST OUTLETS SHALL TERMINATE NOT LESS THAN 5 FEET (1524 MM) HORIZONTALLY FROM PARTS OF THE SAME OR CONTIGUOUS BUILDING, AN ADJACENT BUILDING, ADJACENT PROPERTY LINE AND AIR INTAKE OPENINGS INTO A BUILDING WHERE AIR FROM THE EXHAUST OUTLET DISCHARGES AWAY FROM SUCH LOCATIONS. AND EXHAUST OUTLETS SHALL BE PERMITTED TO TERMINATE THROUGH EXTERIOR WALLS WHERE THE SMOKE, GREASE, GASES, VAPORS AND ODORS IN THE DISCHARGE FROM SUCH TERMINATIONS DO NOT CREATE A PUBLIC NUISANCE OR A FIRE HAZARD. SUCH TERMINATIONS SHALL NOT BE LOCATED WHERE PROTECTED OPENINGS ARE REQUIRED BY THE INTERNATIONAL BUILDING CODE. OTHER EXTERIOR OPENINGS SHALL NOT BE LOCATED WITHIN 3 FEET (914 MM) OF SUCH TERMINATIONS.
2. THIS DESIGN IS DIAGRAMMATICAL. REFER TO MANUFACTURER'S RECOMMENDATIONS AND INSTALLATION MANUALS FOR SPECIFIC LOCATIONS AND INSTALLATION DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS.
3. ALL REUSED MATERIALS OR EQUIPMENT SHALL BE IN GOOD CONDITION AND THE SYSTEM SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND IN GOOD WORKING ORDER AT THE COMPLETION OF THE PROJECT.

MECHANICAL SHEET NOTES (#)

1. EXISTING 7.5-TON RTU ON ROOF. FIELD VERIFY FINAL LOCATIONS AND EXISTING CONDITIONS PRIOR TO ANY WORK.
2. CONNECT NEW DUCTWORK TO EXISTING TO REMAIN 7.5-TON RTU. FIELD VERIFY EXISTING CONDITIONS, AND FINAL LOCATIONS PRIOR TO WORK.
3. EXHAUST TERMINATION(S) SHALL BE PLACED A MINIMUM DISTANCE OF 10'-0" HORIZONTALLY, OR 3'-0" VERTICALLY ABOVE, FROM ANY FRESH AIR INTAKE. FIELD VERIFY FINAL LOCATION(S) PRIOR TO ANY WORK.
4. REMOTE CONDENSER FOR WALK-IN COOLER/FREEZER BY OTHERS. FIELD VERIFY FINAL LOCATION PRIOR TO ANY WORK. COORDINATE LOCATION WITH STRUCTURAL PRIOR TO ANY WORK.
5. PROVIDE SA RUN-OUT TO SUPPLY DIFFUSER. SEE DETAIL 2/M0.1. DIAMETER OF DUCT SHALL MATCH THAT OF THE DIFFUSER'S NECK. PROVIDE A MVD AT ALL TAKE-OFFS IN AN ACCESSIBLE LOCATION. TYPICAL ALL SUPPLY RUN-OUTS.
6. PLACE THERMOSTAT ON WALL.
7. UNDERCUT DOOR 3/4".
8. PROVIDE REMOTE TEMPERATURE SENSOR TO BE PLACED INSIDE THE RETURN DUCT, CONNECTED TO OFFICE THERMOSTAT.
9. REFER TO DETAIL 4/M0.1 FOR OVEN VENTILATION & CONNECTION INFORMATION.
10. PROVIDE AND INSTALL HONEYWELL VisionPRO REMOTE SENSOR (C7189U1005) IN LOBBY AREA. MAINTAIN SUFFICIENT DISTANCE FROM EXTERIOR SURFACES TO NOT THROW OFF READING. FIELD VERIFY EXISTING CONDITIONS, FINAL LOCATIONS, AND MOUNTING HEIGHTS WITH TENANT PRIOR TO WORK. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, ALL APPLICABLE CODES, AND THE AHJ.
11. NEW EXHAUST FANS TO NEW 8'Ø EXHAUST DUCT AND UP THROUGH ROOF. PROVIDE NEW GOOSENECK TERMINATION. FIELD VERIFY FINAL LOCATION PRIOR TO ANY WORK.
12. PROVIDE WATER HEATER MANUFACTURER CONCENTRIC VENT KIT UP AND THROUGH ROOF. FIELD COORDINATE ROUTING AND LOCATION PRIOR TO ANY WORK. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
13. CONTRACTOR SHALL OFFSET OVEN EXHAUST PRIOR TO BEING ROUTED UP THROUGH ROOF TO MAINTAIN CLEARANCE TO MECHANICAL AIR INTAKES.

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