Jersey Mike's Subs

SHEET INDEX:

Sheet	Sheet Name	Current Revision Date
ARCHITECTURAL		
A0.1	PROJECT INFORMATION	10/21/2026
A0.2	OUTLINE SPECIFICATION	
A0.3	OCCUPANCY AND EGRESS PLAN	
A1.0	DEMOLITION PLAN	
A2.1	ARCHITECTURAL FLOOR PLAN	10/21/2026
A2.2	FINISH PLAN AND SCHEDULE	
A3.1	REFLECTED CEILING PLAN	
A5.0	INTERIOR ELEVATIONS	
A5.1	INTERIOR ELEVATIONS	
A6.0	PARTITION TYPES & DETAILS	
A6.1	MILWORK DETAILS	
A6.2	MILWORK DETAILS	
ELECTRICAL		
E1.1	ELECTRICAL SPECIFICATIONS	
E1.2	ELECTRICAL SPECIFICATIONS	
E2.0	ELECTRICAL POWER PLAN	
E3.0	ELECTRICAL LIGHTING PLAN	
E4.0	ELECTRICAL HVAC PLAN	
E5.0	PANEL SCHEDULE AND RISER DIAGRAM	
E5.1	ELECTRICAL COMPLIANCE FORMS	
MECHANICAL		
M1.0	MECHANICAL PLAN	
M1.1	MECHANICAL ROOF PLAN	
M1.2	MECHANICAL SPECIFICATIONS	
M2.1	MECHANICAL DETAILS	
M2.2	MECHANICAL DETAILS	
M3.1	HOOD DRAWING	
M3.2	HOOD DRAWING	
M3.3	HOOD DRAWING	
M3.4	HOOD DRAWING	
M3.5	HOOD DRAWING	
M3.6	HOOD DRAWING	
M3.7	HOOD DRAWING	
M3.8	HOOD DRAWING	
M3.9	HOOD DRAWING	
M3.10	HOOD DRAWING	
M3.11	HOOD DRAWING	
PLUMBING		
P1.0	PLUMBING PLAN	
P2.0	PLUMBING ISOMETRICS AND TABLES	
P3.0	PLUMBING DETAILS	
P4.0	PLUMBING SPECIFICATIONS	
REFERENCE		
R1.1	REFERENCE FURNITURE PLAN	10/21/2026

Grand total: 40

SYMBOLS LEGEND:

Project Limit Line	**Scope of Project**	Key Note No.	**Key Note**
ALIGN	**Aligned Surfaces**	℄	**Centerline**
Area Name / 150 SF — Area Name / Area	**Area Tag**	Graphic North — Reference Label	**North Arrow**
Room Name / 101 / 150 SF — Room Name / Room No. / Room Area	**Room Tag**	0 — Grid No.	**Column Grid Line**
101 — Door/Room No.	**Door Tag**	Name / Elevation — Level/Datum Name / Level/Datum Elevation AFF	**Level Marker**
1t — Window Type	**Window Type Tag**	Spot Elevation AFF	**Spot Elevation**
F 1 a — Partition Configuration / Insulation / Partition Configuration	**Partition Tag**	Xx.x — Detail No. / Xx.x — Sheet No.	**Elevation**
SIM — Reference Label / 1 — Detail No. / A101 — Sheet No.	**Building Section**	Starting Point @ Center	**Dimension Crosshair**
SIM — Reference Label / 1 — Detail No. / A101 — Sheet No.	**Wall Section**	Highpoint @ Tail	**Slope Indicator**
SIM — Reference Label / 1 — Detail No. / A101 — Sheet No.	**Detail Section/Callout**	Change @ Head	**Material Change Indicator**

DEFERRED SUBMITTALS:

ITEMS NOT INCLUDED UNDER THE PERMITTING OF THESE DRAWINGS

SPRINKLER, FIRE ALARM, SIGNAGE

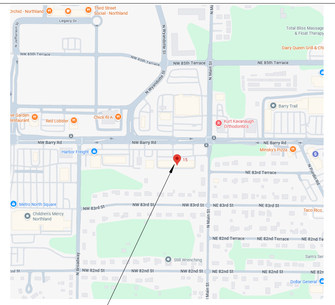
- GC RESPONSIBLE FOR OBTAINING ALL NECESSARY FIRE ALARM AND SPRINKLER DRAWINGS AND SUBMITTING FOR REQUIRED PERMITS
- LANDLORD CRITERIA: SIGNAGE MANUFACTURER IS RESPONSIBLE FOR OBTAINING MALL SIGNAGE CRITERIA FROM GENERAL CONTRACTOR OR MALL, AND FOR COMPLIANCE WITH ALL MALL REQUIREMENTS REGARDING FABRICATION, FASTENER DETAILING, INSTALLATION, ETC... OF FINISHED SIGN. FINAL INSTALLATION MUST BE APPROVED BY LANDLORD.
- SHOP DRAWINGS: SIGNAGE MANUFACTURER TO PROVIDE SHOP DRAWINGS FOR LANDLORD APPROVAL. ALL SIGNAGE INCLUDING MAIN STOREFRONT SIGN AND GLASS APPLIED VINYL LETTERING. SHOP DRAWING SUBMITTAL TO CONFIRM ALL DIMENSIONS, POSITIONING, FASTENINGS, FINISHES, COLORS, ETC...
- SIGNAGE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING ALL DRAWINGS AND DETAILS FOR REQUIRED PERMITS.

ABBREVIATIONS

ABV	Above	EXT	Exterior	OA	Overall
ACT	Acoustical Ceiling Tile	EXTG.	Existing	O.C.	On Center (s)
ACP	Acoustical Ceiling Panel	FA	Fire Alarm	OD	Outside Diameter
ACR	Acrylic Panel	FBO	Furnished by Others	OHD	Overhead
AD	Access Door	FDN	Foundation	OPNG	Opening
ADD	Addendum	F/CONC	Face of Concrete	OPP	Opposite
ADJ	Adjacent	FD	Floor Drain	PFB	Prefabricate (d)
AFF	Above Finished Floor	FF	Finished Floor/Face	PFN	Pre-finished
AHU	Air Handling Unit	F/FIN	Face of Finish	P	Paint
ALT	Alternate	FE	Fire Extinguisher	PLY	Plywood
AL/ALUM	Aluminum	FEC	Fire Extinguisher Cabinet	PTD	Painted
ANOD	Anodized	F/MAS	Face of Masonry	PTR	Partition
APPROX	Approximate	FT	Feet	RD	Roof Drain
ARCH	Architect (ural)	FTG	Footing	REF	Reference
B.D.	Bottom of Deck	FURR	Furred (ing)	REFL	Reflect (ed),(ive),(or)
BEL	Below	FoB	Face of Brick	REINF	Reinforcement
BLDG	Building	GA	Gage, Gauge	REQD	Required
BLK/G	Block (ing)	GALV	Galvanized	REV	Revision (s), Revised
BRK	Brick	GB	Grab Bar	RFG	Roofing
BS	Both Sides	GC	General Contractor (or)	RM	Room
CG	Corner Guard	GL	Glass, Glazing	RO	Rough Opening
CJ	Construction Joint	GWB	Gypsum Wall Board	S	Sink
CLG	Ceiling	GYP/BD	Gypsum (Board)	SC	Sealed Concrete
CLR	Clear (ance)	HB	Hose Bibb	SCH	Schedule
CMU	Concrete Masonry Unit	HC	Hollow Core	SQ	Square
CO	Clean Out	HM	Hollow Metal	SS	Stainless Steel
CPT	Carpet (ing)	HORIZ	Horizontal	STL	Steel
COL	Column	HT	Height	STRUCT	Structural
COMP	Compress (ed),(ion),(ible)	HTG	Heating	SUSP	Suspended
CONC	Concrete	INSUL	Insulate (d), (ion)	T.O.	Top of
CONN	Connection	INT	Interior	TOL	Tolerance
CONST	Construction	KP	Kick plate	T.O.S.	Top of Steel
CONT	Continuous or Continue	LAV	Lavatory	TRAN	Transition
CORR	Corridor	LVT	Luxury Vinyl Tile	T/S	Top of Slab
DEMO	Demolish, Demolition	MAS	Masonry	T.W.	Top of Wall
DET	Detail	MAT	Material (s)	TYP	Typical
DIA	Diameter	MAX	Maximum	UNF	Unfinished
DIM	Dimension	MECH	Mechanic (al)	UON	Unless Otherwise Noted
DR	Door	MED	Medium	UR	Urinal
DS	Downspout	MTL	Metal	VCT	Vinyl Composition Tile
DWG	Drawing	MFR	Manufacture (er)	VERT	Vertical
EA	Each	MIN	Minimum	VIF	Verify In Field
EJ	Expansion Joint	MIR	Mirror	VIN	Vinyl
EL	Elevation	MISC	Miscellaneous	VT	Vinyl Tile
ELEC	Electric (al)	MO	Masonry Opening	W/	With
EMERG	Emergency	N/A	Not Applicable	WB	Wall Base
EQ	Equal	NIC	Not In Contract	WC	Wall Covering
EQUIP	Equipment	NOM	Nominal	WD	Wood
EST	Estimate	NTS	Not To Scale		



PROJECT LOCATION:



KEY PLAN:



PROJECT GENERAL NOTES:

1. WORK INCLUDES APPLYING AND PAYING FOR APPLICABLE PERMITS, LICENSES AND FEES.
2. NOTIFY ARCHITECT OF DISCREPANCIES ENCOUNTERED BETWEEN DOCUMENTS AND APPLICABLE CODES OR INTERPRETATIONS BY THE GOVERNING AGENCIES.
3. PERFORM WORK USING ONLY SKILLED WORKERS TRAINED AND EXPERIENCED IN THEIR RESPECTIVE TRADES.
4. VERIFY SITE CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING THE WORK AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES.
5. VERIFY DIMENSIONS AND LOCATIONS OF OPENINGS, BASES, AND SPECIAL PROVISIONS REQUIRED FOR EQUIPMENT, DUCTS, PIPING, CONDUITS, FINISH HARDWARE, ETC.
6. SCALING DRAWINGS IS DISCOURAGED AND PERFORMED AS THE SOLE RISK OF THE CONTRACTOR.

BUILDING CODE SUMMARY:

PROJECT SUMMARY

INTERIOR TENANT FITOUT OF AN EXISTING MULTI-TENANT BUILDING. NO EXTERIOR WORK TO BE PERFORMED.

SEE SHEET A0.3 FOR EGRESS PLAN

BUILDING DATA:

BUILDING CODE AGENCY/JURISDICTION: **KANSAS CITY, MO - JACKSON COUNTY**

BUILDING CODE:
2018 International Building Code
2018 International Existing Building Code
2018 International Fuel Gas Code
2018 International Mechanical Code
2021 International Energy Conservation Code
2018 Uniform Plumbing Code
2017 National Electrical Code
2010 Accessibility Code

TYPE OF WORK: **INTERIOR FITOUT**

FIRE SUPPRESSION: **SPRINKLERED**

EXISTING CONSTRUCTION TYPE: **III-B**

TOTAL NUMBER OF FLOORS: **ONE (1)**

NUMBER OF FLOORS ABOVE GRADE: **ONE (1)**

USE/OCCUPANCY GROUP **B (Business) (PER Section 303.1.1)**

LEGAL DESCRIPTION:
SUZANNE PLACE PT LT 2 BEG NW COR LT 2, E397.27, S90, E122.35, S38.75, W80, S143.56, W440, N259.97 TO POB

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JERSEY MIKES - KANSAS CITY
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#	Description	Date
1	CITY COMMENTS	10/21/2026

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Missouri Corporate Authority Number #814.
Missouri Architect in responsible Charge - Ronald Melvin Reim AR-5489.

STATE OF MISSOURI
RONALD MELVIN REIM
AR-005489
ARCHITECT

ISSUED FOR PERMIT

Client Approval

PROJECT INFORMATION

Project #	43426-MO01
Issue Date	10/09/2026
Scale	As indicated
Drawn by	RS
Checked by	MMR

A0.1

DIVISION 01 - GENERAL REQUIREMENTS

1. It is the responsibility of the General Contractor and subcontractors to make themselves familiar with the GENERAL CONDITIONS, PLANS, AND SPECIFICATIONS. and any other notes or references related to this project so as to possess full comprehension of the work they are to perform. Any discrepancies shall be immediately brought to the attention of the Architect, or Franchisee.

2. Nothing in the PLANS Specifications, notes and references shall be interpreted so as to eliminate any requirements or provisions of National, State, County, and Local Building Codes and/or Ordinances. All Contractors are responsible for 'full knowledge of', and compliance with the aforementioned regulations and shall notify the Architect of any discrepancies or conflicts before beginning their work.

3. The General Contractor and all subcontractors shall visit the site to verify all field conditions and dimensions related to their work. The General Contractor shall then submit a written proposal of his scope of work to The Owner for an approval. Any discrepancies or conflicts shall reported to the Owner before starting their work.

4. The General Contractor shall consult with the subcontractors and The Owner and coordinate the work in order to adhere to the schedule agreed upon by the Owner.

5. The General Contractor is responsible for the following:

A. Provide Schedule of Work to Tenant
B. Obtaining any and all permits.
C. Scheduling all inspections.
D. Providing certificate of occupancy and final health inspection.
E. The contractor shall provide the following with Final Invoice.
1) Original or clear photo copies of Certificate of Occupancy (CofO) permit and health inspection report.
2) Listing of Sub-contractors & area of responsibility, complete with trade name, owner's name, address, telephone number and Federal ID number.
3) Properly executed lien-waver.
4) Serial numbers. date of manufactured of all installed HVAC equipment, make line and walk-in box.

6. Unless indicated as "BY OTHERS" on the PLANS or in the SPECIFICATIONS or otherwise directed by The Owner. The General Contractor and sub-contractors shall supply all labor and materials and miscellaneous items, not specifically shown on the PLANS or in the SPECIFICATIONS but obviously necessary for the complete and proper installation of their elements of work.

7. The General Contractor and Sub-Contractors shall turn over all written operating instructions and warranties for equipment to the Owner at the completion of their work.

8. All work performed by the Contractor and his Sub-Contractors, including materials and labor shall be guaranteed in writing or a period of one (1) year from date of acceptance by The Owner.

9. These PLANS and SPECIFICATIONS, as instruments of service, are and shall remain the property of THE ARCHITECT. They are not to be reproduced in part or whole or used an any other projects except by agreement in writing with and after appropriate compensation to THE ARCHITECT

10. The General Contractor and Sub-Contractors, at the completion of their work, shall leave the site clean and free of debris related to their work, and the store finished to pass health inspections, and made ready to commence with the business of food production.

11. Additional specifications may be found within the drawings regarding specific items such as roofing, exterior finish materials etc.

12. No material substitutions are allowed without permission from the Owner.

13. All Jersey Mike's (JM) General Contractors shall be certified as an "approved" JM General Contractor. Each Contractor and his/her Subcontractors shall become familiar with the requirements, and base the total construction cost on the submitted drawings combined with the Construction Guide provided by JM. Any conflicts between the drawings and the Construction Guide shall be brought to the attention of the Architect. If questions arise for interpretations, they shall be directed to the Architect.

DIVISION 02 - EXISTING CONDITIONS

1. This section requires the selective removal and subsequent, off-site disposal of interior partitions, doors and frames, equipment and fixtures as indicated on drawings. Cutting non-structural concrete floors for underground piping is included with the work of the respective mechanical specification sections. Relocation of pipe, conduit, duct, and other mechanical and electrical work are specified by respective trades.

2. Provide protective measures, including temporary barricades and other forms of protection, as required to provide free and safe passage of Owner's personnel and general public to, with-in and from occupied portions of adjacent site, during all demolition procedures and thru full period of construction.

3. Contractor to provide adequate shoring, bracing and support to prevent movement, settlement, or collapse of structure or element to be demolished and adjacent facilities or work to remain. Structural plans show extent of structural retrofit after existing walls are removed, contractor is responsible for determining proper bracing sequence and the sequence of bracing removal.

4. Coordinate with Owner the sequence of operations for selective demolition work prior to start of work. Include coordination for shutoff, capping, and continuation of utility services as required, together with details for dust and noise control protection.

5. Contractor to verify location of all rebar and post-tensioning cables in floor slabs (with pachometer) as applicable, prior to drilling or cutting of slabs.

6. If unanticipated mechanical, electrical or structural elements conflict with intended function or design are encountered, investigate and measure both the nature and extent of the conflict. Submit report to owner's representative in written, accurate detail. Pending receipt of directive from owner's representative, rearrange selective demolition schedule as necessary to continue overall job progress without delay.

7. Locate demolition equipment throughout structure and promptly remove debris to avoid imposing excessive loads on supporting walls, floors, or framing.

8. Salvaged items: where indicated on drawings as "salvage - deliver to Tenant," carefully remove indicated items, clean, store, and turn over to Tenant and obtain receipt.

9. Coordinate demolition activities with hazardous materials abatement contractor, as required.

10. If hazardous materials are encountered during demolition operations, isolate the area containing the materials and comply with the general conditions. Do not disturb hazardous materials except in a manner complying with applicable regulations, laws and ordinances.

11. Comply with governing laws, codes, and regulations governing safety, fire protection and environmental protection during demolition operations.

12. Burning of removed materials is not permitted on project site.

13. Use of explosives will not be permitted.

14. For interior slabs on grade, use removal methods that will not crack or structurally disturb adjacent slabs or partitions. Use power saw where possible.

15. Demolish concrete and masonry in small sections. Cut concrete and masonry at junctures with construction to remain using power-driven masonry saw or hand tools; do not use power driven impact tools.

16. Protect from damage all existing work that is to remain in place or becomes exposed during demolition operations.

17. General contractor shall maintain existing fire ratings in all areas of demolition.

18. Provide temporary weather protection during intervals between demolition and removal of existing construction on exterior surfaces and installation of new construction to insure that no water leakage or damage occurs to structure or interior areas of existing building.

19. Owner assumes no responsibility for actual condition of structures to be demolished.

20. In all areas affected, the contractor shall remove all unused and obsolete electrical, data, and communication wiring. Contractor shall verify with Owner or Owners representative all wiring to be removed prior to performing removal.

21. If at any time during demolition work a structural element such as a wall, column, floor, brace or support is inadvertently damaged or if a visible structural deformity or cracking occurs or becomes noticeable the contractor shall implement project safety procedures including notifying necessary appropriate emergency personnel immediately. Following implementation of emergency safety procedures, immediately notify the Owner and Architect.

DIVISION 03 CONCRETE

1. Extent of concrete work is indicated on drawings and also includes, but is not limited to, the repair of existing concrete slabs where plumbing fixtures, piping, and/or duct work have been removed, or where similar selective demolition work has occurred, the repair of existing concrete sidewalk and steps, and the installation of new handicapped ramp.

2. Provide reinforcing materials as required at all new concrete work to comply with the following codes:

a. ASTM A 185, welded steel wire fabric, or fiber mesh additive.

3. Comply with the applicable provisions of the following codes and standards:

a. ACI 301 "Spec. For structural concrete buildings"
b. ACI 304 "Concrete placement"
c. ACI 318 "Building code requirements for reinforced concrete"

DIVISION 04 - MASONRY

NOT APPLICABLE

DIVISION 05 - METALS

NOT APPLICABLE

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

1. Contractor shall provide all wood or metal blocking, grounds, nailers, and supports, as shown in the drawings, and as required for the attachment of other work. Contractor shall install all work plumb and level. Contractor shall also fill and sand smooth all exposed nail and fastener holes, and coordinate location with other work.

2. All finish lumber, hardwood stock, and milled trim shall be kiln dried and ready for fabrication/installation. All pieces shall be of the type and grade specified and clear of warp, splits, knots or other deformities that would detract from its appearance.

3. All architectural woodwork shall comply w/ with standards and recommendations of the architectural woodwork institute's AWI current standards - "Architectural Woodwork Quality Standards".

4. Contractor shall fabricate and install base cabinets as shown on drawings. Casework shall be AWI premium grade and finished as noted on drawings.

5. Cabinets shall be of 'flush overlay construction as shown on the drawings and as follows:

a. Cabinets where shown as plastic laminate: Provide plastic laminate on all exposed surfaces with selected colors as indicated on the drawings and as listed below unless otherwise noted:
1. Gp-50 for non-post-formed surfaces.
2. Pf-42 for post-formed surfaces.
3. Gp-28 for vertical surfaces

6. The following hardware shall be used for all scheduled millwork / cabinets unless otherwise noted on drawings:

a. Drawer guides: Self closing accuride C3800/C3827, or approved equal.
b. Grommets: All grommet trim unless noted otherwise to be manufactured by Doug Mockett and Co., Manhattan Beach, CA 90266, (213)318-2491. Equip with 3"diameter holes with XG series "black". Equip all slotted holes with CL series "black" to the size as shown on the drawings.
c. Hinges: Grass 1203 or Stanley 1511-2 or 1511-9X, self-closing, three dimensional adjustable, 165 degree opening.
d. Touch latching mechanisms: Stanley, Hafele or approved equal. (sized appropriately to match door size.)
e. Casework pulls: 3 1/2" polished chrome wire cabinet door pulls
f. Pocketing cabinet door hardware: NOT USED
g. Ventilation grill: Hafele #571.62.302, black or approved equal.
h. Cabinet door silencers: Provide three (3) rubber bumpers per door.
i. Self supports: Provide recessed metal standards or metric drilling at contractors' option.
j. Coat hooks: Refer to door hardware groups.
k. Drawer and cupboard locks: Half-mortise type, 5-pin tumbler and deadbolt, round cylinder only exposed, brass with plated finish, similar to Yale NO. 5591.

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SEALANTS

1. Install sealants as mentioned below and shown on drawings (unless otherwise noted on drawings), per manufacturer's recommendations.

2. Type 1: All exterior vertical surfaces use sealants as follows:

a. Aluminum and glass: One part non- acid curing silicone sealant.
b. Aluminum, masonry, and EIFS: one or two part non-sag low modulus urethane sealant. Verify compatibility of sealant with EIFS manufacturer prior to use.

3. Type 2: Interior wet locations - such as bathrooms, toilet fixture bases, sinks, etc.: one-part mildew resistant silicone sealant.

4. Type 3: All interior joints exposed to view: Siliconized acrylic latex sealant (paintable) as noted or indicated in the documents. A continuous bead of caulk shall be provided at all edges of hollow metal and aluminum frames.

5. Type 4: All exterior door thresholds use: one-part butyl sealant.

FIRE AND SMOKE PROTECTION

1. Furnish and install fireproofing system (complete w/ all required primers, metal lath, sealers, topcoats, etc as applicable) at location of steel beam reinforcement. Use "U.L." approved materials which match required fire resistive ratings used on existing beam(s). Install in compliance w/ manufacturer's recommendations and industry standards.

2. Subject to approval of local code officials and standards, apply fireproofing materials by trowel application or other placement method acceptable to manufacturer.

DIVISION 08 - OPENINGS

METAL DOORS AND FRAMES

1. Furnish and install hollow metal frames to comply with steel door institute "recommended specifications:
a. (SDI-100) standard steel doors and frames.
b. HMMA/NAAMM "guide specifications for commercial hollow metal doors and frames" (HMMA 861-87).

2. Provide labeled frames where indicated on drawings. Warranty to be in effect for two years after date of substantial completion.

3. Finish on frames to be as follows: Shop/field painting at contractor option, to match color selection as indicated in material legend on drawings, unless otherwise noted all frames to be sprayed.

4. Frames, unless noted otherwise, shall conform to the building standard as specified by the landlord and are to be Fully Welded.

5. Reuse existing hollow metal frames (unless noted otherwise on drawings), wherever possible. Contractor shall notify the owner of the type and number of existing frames which can be re-used and which have become damaged making them un-suitable for reuse.

6. Provide galvanized metal doors with shop-applied primer of type and styles indicated on drawings or schedules. Provide non-removable glazing stops installed on public side of door. Glazing beads on inside of glass and louver panels shall be removable. Glazing systems shall be minimum 20 gauge steel. All doors hollow metal doors to be 1 3/4" thick.

7. Submit shop drawings and schedules for approval, prior to fabrication. Conform to same door and opening designations used in the door schedule.

WOOD DOORS

1. Where indicated on drawings and shown in schedules, furnish and install new solid core wood doors to match building standard. Door veneer to match existing grain, species and leaf matching. Provide labeled doors where indicated on drawings.

2. Reuse existing doors as indicated on drawings. Refinish doors to match color and sheen of new doors unless otherwise noted on drawings.

3. Rated interior solid core wood doors shall comply with requirements of AWI Section 1300, fd-5 doors. Custom/premium grade doors for transparent finish to match quality of non-rated doors. Core to be non-combustible mineral composition material per label requirements. Stiles and rails securely bonded to core per label requirements. Veneer to be as specified in material legend, "A" grade, edge glued joints for transparent finish.

4. Non-rated interior solid core wood doors shall comply with requirements of AWI Section 1300, pc-5 ce doors. Custom grade veneer, bonded particle core doors for opaque finish. Core to be particleboard conforming to ANSI A208.1, 1-ld-2 grade. Stiles and rails securely bonded to core, and then entire unit abrasive planed before veneering. Veneer to be sound, close grain hardwood, minimum b grade (minimum 1/50" at 12 % mc), for opaque finish.
a. Submit samples of manufacturer's full standard veneer oiptions for owner's selection.

5. Submit shop drawings, product information and schedules for approval prior to fabrication. Conform to same door and opening designations as shown in the door schedule on the drawings.

6. Contractor to submit certificate showing that interior wood doors are to be warranted for life of installation.

7. Door manufacturer's to be considered are as follows (unless otherwise noted on drawings):

a. AMPCO, Eggers, VT Industries and Weyerhaeuser door division.

ENTRANCES AND STOREFRONTS

NOT APPLICABLE

HARDWARE

1. Provide locksets appropriate to function where indicated in door schedule. Furnish and install new hardware to match building standard as required (unless otherwise noted), note, selections are based upon products as manufactured by "Schlage Lock Company," alternate manufacturers of equivalent "models" by Corbin, Falcon, Yale products will be considered. See drawings for additional information.

2. Project standard interior door locks and latches (unless otherwise noted):

a. Certif: ANSI A156.2, 1989,series 4000 grade 1.
Design: Schlage extra heavy duty cylindrical locks,
Series: "D" lever: "Schlage Rhodes"
Latch: 09-66X square corner strike: 10-072; 37-015(@wd fr)
Finish: 626(26D) satin chromium plated.
Keying: Master-keyed - standard interchangeable cores
Reinforcing kit: 37-001 - sized for door thickness

3. Project standard security deadbolts (unless otherwise noted):

a. Certif: ANSI A156.2, 1984, grade 3.
Design: Single cylinder deadbolt, thumb turn interior.
Series: "100" model: "B160"
Finish: 626(26D) satin chromium plated.
Keying: Master-keyed - standard interchangeable cores
Reinforcing kit: 37-001 - sized for door thickness.

4. Project standard cypher locks (unless otherwise noted):

a. Contractor shall retrofit, if possible, existing cypher locks hardware to meet current ADA, ANSI and building code requirements. Retrofit shall include manufacturer's approved lever handles. If retrofit of existing cypher lock cannot be achieved notify the Architect for a replacement specification.

b. Manufacturer: ILCO Unicam Corp.
Certif: ANSI A156.2, grade 1.ADA & d.o.d.5220.22m
Design: Exterior access by combination or key override.
Egress by interior lever.
Series: "11000" model: "1021"
Finish: Matchg bldg standard
Keying: Masterkeyed - standard interchangeable cores

5. Furnish and install card key access system to match building standard where indicated on the drawings.

6. Door Closers (unless otherwise noted):

a. LCN 4040 w/back check, surface mounted with parallel arm for push side mounting.
Similar in style and appearance to building standard.

7. Hinges, butts and pivots (unless otherwise noted). Non-ferrous hinges to be provided with stainless steel pins. Exterior doors, and out-swing corridor doors to receive non-removable pins. Provide number of hinges in accordance w/ door and hardware institute recommendations. Provide ball bearing butts for doors equipped with closures.

8. Submit for approval hardware schedule keyed to Architect's door and opening designations. List manufacturer's model number for all group components. Submit product information for each type of hardware provided.

9. Hardware supplier shall have in his/her employ an AHC member of the American Society of Hardware Consultants who must be capable of correctly interpreting the plans and specifications to furnish complete and appropriate hardware. Consultant must sign shop drawing/product information submittal thus signifying that the submittal complies with the intent of the documents and the door and hardware institute.

10. Supplier to coordinate lock cylinders and keying with Tenant, and master key system for the entire project. Supplier will meet with Tenant as required to finalize keying requirements and document/obtain final instructions in writing.

GLASS AND GLAZING

1. Comply with recommendations of flat glass marketing association (FGMA) "glazing manual" and "sealant manual" except where more stringent requirements are indicated.

2. All interior glass shall be 1/4" minimum, unless otherwise noted, glass thickness shall meet or exceed minimum standards set forth in current ASTM E1300 version.

3. Contractor shall furnish and install tempered safety glass. as indicated on the drawings or otherwise required by code. All safety glass shall be identified as such with visible markings located in corner and suitable for building inspector review and approve.

4. Unless otherwise noted on the drawings, contractor shall furnish and install clear non-coated annealed flat glass of the size and thickness shown. Provide glass and glazing that has been produced, fabricated and installed to withstand normal thermal, wind or impact loading (where applicable), without failure. All glass for the project shall comply w/ thickness, dimensional tolerances and characteristics set forth in ASTM C1036 "Standard Specification for Flat Glass."

5. Unless otherwise noted on the drawings, contractor shall furnish and install clear heat-treated flat glass, ft (fully tempered) of the size as indicated in the documents. Provide glass and glazing material that has been produced, fabricated and installed to withstand normal thermal, wind or impact loading. Fully tempered glass shall comply w/ the requirements for safety glazing in ANSI Z97.1-"standard for glazing materials used in buildings" as well as ASTM C1048 "standard for heat treated flat glass -kind ft coated and uncoated glass. Fully tempered glass shall comply with all local building code and life safety requirements.

6. Provide glazing sealants, tapes, and misc. materials with a proven record of compatibility with other materials/surfaces with which they will come into contact, including, but not limited to, glass products, seals of insulating glass units, glazing channel substrates, under conditions of service, as demonstrated by testing and field experience.

7. Submit shop drawings and product literature for Architect review.

DIVISION 09 - FINISHES

PLASTER AND GYPSUM BOARD ASSEMBLIES

1. Interior finish material shall comply with the flame spread and smoke development limitation listed in the building code section.

2. Contractor shall furnish all materials and labor to construct and finish all interior rooms and spaces as shown on drawings, noted schedules or otherwise specified in these documents.

3. Gypsum wall board shall be 5/8" thick (unless otherwise noted on drawings), taped, filled and sanded smooth. Fire-code gypsum wallboard shall be 5/8" thick, taped, filled, sanded smooth, and installed per manufacturer's recommendations for ratings as shown on drawings.

4. Install (non-load bearing) screw-type metal stud support system of the gauge recommended by the manufacturer for the application shown on the drawings. Comply with manufacturer's recommendations for acoustical ceiling work but not less than recommended.

a. 25 ga / standard duty studs @ 24" o.c. max / for clear span heights, do not exceed manufacturer's recommendations for the following:
1 5/8" stud, 2 1/2" stud, 3 5/8" stud, and 4" stud.
b. 22 ga / heavy duty studs @ 24" o.c. max / for clear span heights, do not to exceed manufacturer's recommendations for the following:
1 5/8" stud, 2 1/2" stud, 3 5/8" stud, 4" stud, and 6" stud.
c. 20 ga / extra duty studs @ 24" o.c. max / for clear span heights, do not exceed manufacturer's recommendations for the following:
1 5/8" stud, 2 1/2" stud, 3 5/8" stud, 4" stud, and 6" stud.

5. Contractor shall furnish and install complete suspended gypsum wall board ceiling system where indicated on the drawings. Provide components which comply with ASTM C 754 and manufacturer's recommendation for materials and sizes unless otherwise indicated. Provide seismic struts/braces as required by local codes and per building standards.

CEILINGS

1. Comply with manufacturer's recommendations for all acoustical ceiling work. Products by USG, Armstrong, and Chicago Metallic will be considered if no specific materials are called for in the documents.

2. Where noted on the drawings, contractor shall replace pads with new pads as indicated. (See finish legend for additional information).

3. Contractor shall review ceiling plans and provide take off quantities to the Tenant for ordering of customers' own materials. Ordered quantities shall include sufficient amount for attic stock and waste during installation.

4. Comply with building standard details and local codes with reference to seismic struts/bracing.

RESILIENT FLOORING

1. Install all resilient tile flooring by direct glue method in accordance with the manufacturers' recommended installation specifications and instructions. Install only over properly prepared and cleaned substrates as recommended by manufacturer.

2. Material to be selected from manufacturer's standard colors. Color and material to be selected by Architect unless otherwise shown in finish schedule.

BASE

1. Install resilient base material as noted in material legend. Use direct glue method in accordance with manufacturer's recommended installation specifications and instructions. Install only over properly prepared substrates as recommended by manufacturer. Material shall be installed in the longest continuous sections feasible. final installation shall be smooth, free of bumps and other irregularities.

2. Wall base to be selected from manufacturers standard colors. Color to be integral and full thickness of material. Color and material to be selected by the Architect.

PAINTING AND COATING

1. Contractor shall finish walls with one coat primer and two coats latex enamel paint unless otherwise noted in material legend, keyed notes and room finish schedule.

2. Where indicated on drawings, contractor shall spray finish on building door frames in semi-gloss alkyd enamel. Finish color to be as indicated on drawings and to match architect's sample.

SPECIAL COATINGS

1. Contractor shall furnish and install special coatings or multi-color paint system as noted in the material legend. Installer shall be experienced in the installation of special coatings or multi-color installation process and familiar with all manufacturer's equipment and application procedures and instructions. Contractor shall coordinate the installation of special materials with Owners representative to minimize disruptions to normal building operations. Prior to installation, contractor shall notify Owner if special coating application produces fumes or orders which might disrupt other building use/operations. If necessary, special coatings installation shall be conducted after hours or on weekends.

2. Contractor shall provide an additional supply equivalent to 5% of each color of paint specified for touch up and repair. Surplus paint shall be in new and unopened containers provided by the manufacturer.

3. Contractor to verify that painting contractor is certified installer/applicator of manufacturer of special coating specified in project.

DIVISION 10 - SPECIALTIES

FIRE EXTINGUISHER CABINETS
Unless otherwise noted on drawings, contractor to furnish and install building standard semi recessed fire extinguisher cabinet equal to Potter Roemer #7042 fire cabinet with 2a 10bc minimum rated extinguisher, where indicated on drawings. Paint cabinet to match walls unless not allowed by local codes.

DIVISION 11 - EQUIPMENT

1. Contractor to install commercial kitchen equipment provided by the tenant and as indicated on the drawings.

2. Contractor shall coordinate the installation of tenant provided equipment with all related work including millwork, plumbing and electrical. Install device in accordance with manufacturer's specifications and instructions. Contractor shall notify the tenant of all specific information required to coordinate installation of tenant provided equipment.

DIVISION 12 - FURNISHINGS

1. Contractor shall furnish and install all tenant-provided furniture as indicated on the drawings.

2. Contractor shall install all Tenant/Owner provided AV equipment as indicated on the drawings. Coordinate installation of audio visual equipment with ceiling installation. Tenant shall provide contractor with specific product cut sheets/specification and mounting requirements.

DIVISION 13 - SPECIAL CONSTRUCTION

NOT APPLICABLE

DIVISION 14 - CONVEYING EQUIPMENT

NOT APPLICABLE

DIVISION 21 - FIRE SUPPRESSION

NOT APPLICABLE

DIVISION 22 - PLUMBING

RE: PLUMBING SPECIFICATIONS.

DIVISION 23 - HEATING, VENTILATING, AND AIR CONDITIONING

RE: MECHANICAL SPECIFICATIONS.

DIVISION 26 - ELECTRICAL

RE: ELECTRICAL SPECIFICATIONS

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STATE OF MISSOURI RONALD MELVIN REIM NUMBER A-5489 ARCHITECT

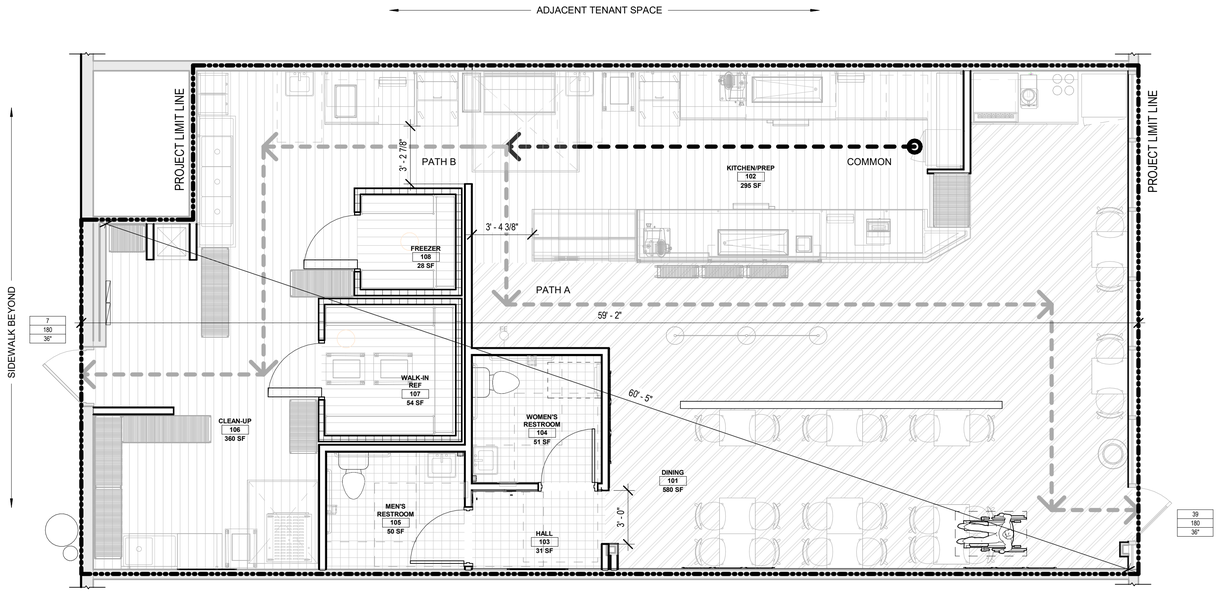
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OUTLINE SPECIFICATION

Project #	43426-MO01
Issue Date	10/09/2026
Scale	1" = 1'-0"
Drawn by	
Checked by	MMR

A0.2



H4 OCCUPANCY/EGRESS PLAN
1/4" = 1'-0"

EXIT REQUIREMENTS:

	SPRINKLERED
REQUIRED NUMBER OF EXITS PER CODE:	2
NUMBER OF EXITS SHOWN ON PLANS:	2
REQUIRED DISTANCE BETWEEN EXIT DOORS PER CODE:	60' - 5" / 3 = 20' - 1 1/2"
ACTUAL DISTANCE BETWEEN EXIT DOORS:	59' - 2"
MAXIMUM DEAD END CORRIDOR LENGTH:	20'

OCCUPANCY DATA:

Occupancy Schedule

RM #	ROOM NAME	AREA	OCCUPANCY	LOAD FACTOR	OCCUPANT LOAD
101	DINING	580 SF	ASSEMBLY UNCONCENTRATED	15	39
102	KITCHEN/PREP	295 SF	COMMERCIAL KITCHEN	200	2
103	HALL	31 SF	UNOCCUPIED	0	0
104	WOMEN'S RESTROOM	51 SF	UNOCCUPIED	0	0
105	MEN'S RESTROOM	50 SF	UNOCCUPIED	0	0
106	CLEAN-UP	360 SF	COMMERCIAL KITCHEN	200	3
107	WALK-IN REF	54 SF	STORAGE	300	1
108	FREEZER	28 SF	STORAGE	300	1
Grand total: 8		1450 SF			46

NOTE: AREA SQUARE FOOTAGE SHOWN ARE FOR THE BUILDING CODE OFFICIAL'S USE AND REVIEW ONLY. ***AREA CALCULATIONS SHOWN NOT RELATED TO TENANT LEASING INFORMATION.***

EXIT ACCESS TRAVEL DISTANCES

Path ID	Common Path Distance	Allowable Common Path	Actual Travel Distance	Allowable Travel Distance
A	22' - 10"	100' - 0"	78' - 6"	250' - 0"
B	22' - 10"	100' - 0"	59' - 4"	250' - 0"

LEGEND

COMMON PATH PORTION OF TRAVEL PATH

TRAVEL PATH

36 — ACTUAL EGRESS LOAD
180 — MAX EGRESS CAPACITY
36" — DOOR WIDTH

DOOR TAG

ASSEMBLY UNCONCENTRATED
COMMERCIAL KITCHEN
STORAGE
UNOCCUPIED

SHEET NOTES:

A) REFERENCE COVER SHEET FOR BUILDING CODE SUMMARY

PLUMBING FIXTURE REQUIREMENTS

	WATERCLOSETS			LAVATORIES		DRINKING FOUNTAINS	
NAME	MALE	FEMALE	URINALS	MALE	FEMALE	REG.	ACC.
RESTROOM	1	1	0	1	1	*0	*0

*PER SECTION 415.2 OF THE UNIFORM PLUMBING CODE: WHERE WATER IS SERVED IN RESTAURANTS, DRINKING FOUNTAINS SHALL NOT BE REQUIRED

GENERAL DOOR AND HARDWARE NOTES:

A] HAND ACTIVATED DOOR OPENING HARDWARE IS TO BE MOUNTED 34" - 48" ABOVE THE FLOOR AND BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE.

B] LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PUSH/PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED AND APPROVED FOR PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPERATIONG HARDWARE.

C] MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8.5 POUNDS OF FORCE FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS. SUCH FORCE BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHERE FIRE DOORS ARE REQUIRED, THE MAXIMUM FORCE REQUIRED TO OPERATE THE DOOR MAY BE INCREASED TO 15 POUNDS.

D] THE BOTTOM 10" OF ALL NON-AUTOMATED HINGED DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.

E] EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3'-0" IN WIDTH NOT LESS THAN AND 6'-8" IN HEIGHT. ALL DOORS SHALL BE CAPEABLE OF OPENING A MINIMUM OF NINETY DEGREES AND SHALL BE MOUNTED SUCH THAT THE CLEAR WIDTH OF THE DOORWAY IS NOT LESS THAN 32" WITH THE DOOR AT NINETY DEGREES FROM THE CLOSED POSITION. ONE DOOR OF A PAIR OF DOORS SHALL MEET THE MINIMUM WIDTH REQUIREMENTS.

F] MAXIMUM HEIGHT OF THRESHOLD TO BE 1/2". MAXIMUM VERTICAL RISE AT EDGE IS 1/4" WITH A MAXIMUM BEVEL OF 22 DEGREES.

G] ALL REUSED DOORS AND HARDWARE TO BE FULLY INSPECTED FOR SOUNDNESS AND FUNCTION. ANY REUSEABLE COMPONENT SHALL BE CLEANED, OILED, PATCHED, REFINISHED PRIOR TO REINSTALLATION IN NEW WORK.

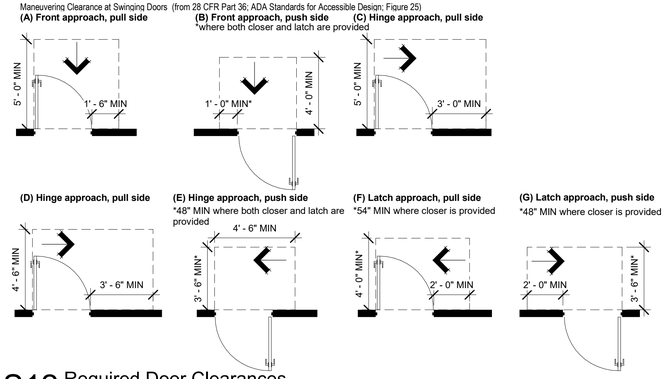
H] GENERAL CONTRACTOR AND HARDWARE SUPPLIER SHALL BE RESPONSIBLE FOR COODINATING ALL LOCKING, LATCHING, CLOSURE AND KEYING REQUIREMENTS FOR TENANT USE.

J] IT SHALL BE THE SPECIFIC DUTY AND RESPONSIBILITY OF THE FINISH HARDWARE SUPPLIER TO EXAMINE DRAWINGS AND SCHEDULES AND FURNISH PROPER HARDWARE FOR ALL NEW AND/OR MODIFIED OPENINGS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL SUBMIT A HARDWARE SCHEDULE TO ARCHITECT FOR REVIEW AND APPROVAL OF TYPES AND STANDARDS OF QUALITY PROIR TO ORDERING.

K] MATCH EXISTING OPENING WIDTH, HEAD & JAMB GWB CONSTRUCTION.

L] ALL NEW DOORS TO HAVE 1/4" MAXIMUM UNDERCUT U.O.N.

Maneuvering Clearance at Swinging Doors (from 28 CFR Part 36; ADA Standards for Accessible Design; Figure 25)



S12 Required Door Clearances
1/4" = 1'-0"

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RONALD MELVIN REIM
ARCHITECT

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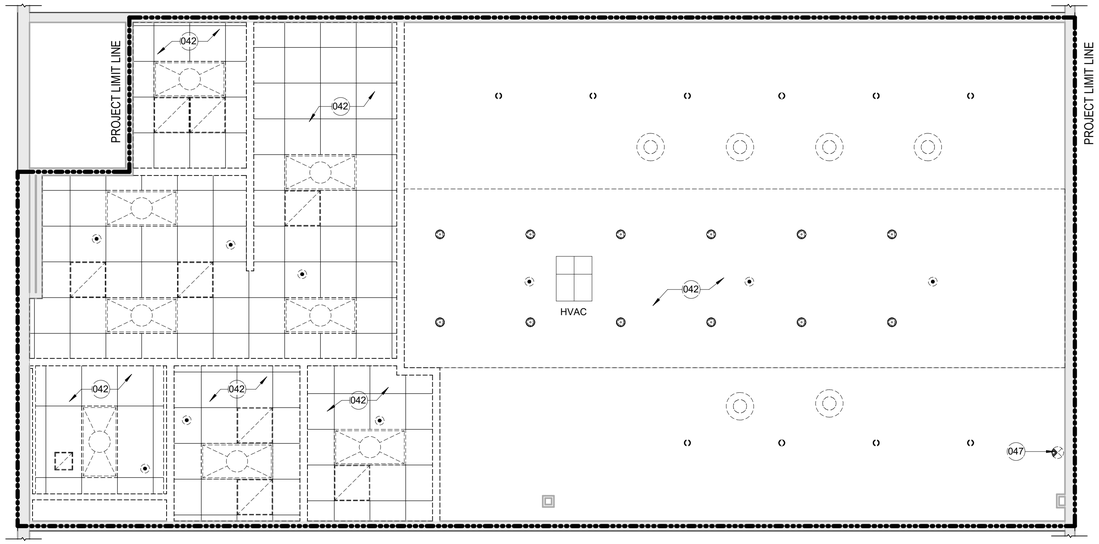
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OCCUPANCY AND EGRESS PLAN

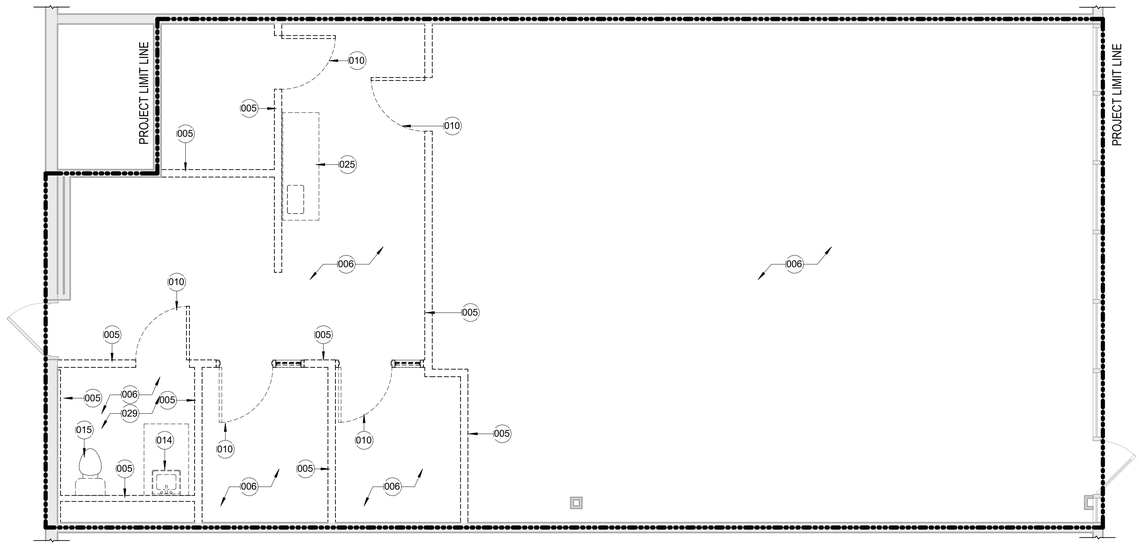
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Issue Date	10/09/2026
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Checked by	MMR

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H2 DEMOLITION REFLECTED CEILING PLAN
1/4" = 1'-0"



P2 DEMOLITION FLOOR PLAN
1/4" = 1'-0"

SHEET NOTES:

- DASHED LINES ON DEMOLITION PLAN REPRESENT ITEMS TO BE DEMOLISHED
- PROTECT EXISTING WORK INDICATED TO REMAIN FROM DAMAGE DURING PERFORMANCE OF THE WORK. RESTORE DAMAGED WORK TO ORIGINAL CONDITION IN MANNER TO ELIMINATE EVIDENCE OF REPAIR.
- PRIOR TO START OF WORK VERIFY SCOPE OF DEMOLITION INDICATED. ADJUST SCOPE OF DEMOLITION AS NEEDED TO ALLOW FOR PRIOR INSTALLATION OF NEW WORK.
- PREPARE ALL SURFACES PER MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF NEW FINISHES.
- DEMO ITEMS INDICATED IN THEIR ENTIRETY TO SUBSTRATE. DEMO CONDUIT, CONDUCTORS, HANGERS, PIPING AND SIMILAR WORK TO SOURCE
- VERIFY AND MAINTAIN EXISTING FIRE RATINGS OF EXISTING BUILDING COMPONENTS (DOORS, FRAMES, WALLS, ETC). MAINTAIN RATINGS THROUGHOUT NEW/DEMOLITION CONSTRUCTION ACTIVITIES.

KEYNOTES:

KEY #	KEYNOTE TEXT
005	DEMO WALL AND RELATED FINISHES.
006	DEMO FLOOR AND ASSOCIATED WALL BASE. PREPARE SURFACE BENEATH FOR INSTALLATION OF NEW FLOOR PER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.
010	DEMO DOOR, HARDWARE, AND FRAME.
014	DEMO LAVATORY.
015	DEMO WATER CLOSET.
025	DEMO COUNTERTOP AND ASSOCIATED MILLWORK.
029	DEMO RESTROOM ACCESSORIES.
042	DEMO CEILING, LIGHTING, DIFFUSERS AND EXHAUST FAN. COORDINATE W/ ELECTRICAL AND MECHANICAL PLANS.
047	DEMO EXIT LIGHT.

WALL & DOOR LEGEND

- EXISTING CONSTRUCTION TO BE DEMOLISHED
- EXISTING CONSTRUCTION TO REMAIN.
- PARTITION
- INSULATED PARTITION
- LOW PARTITION, SEE SECTIONS FOR HEIGHT
- RATED PARTITION
- EXISTING DOOR TO REMAIN
- NEW CONSTRUCTION DOOR

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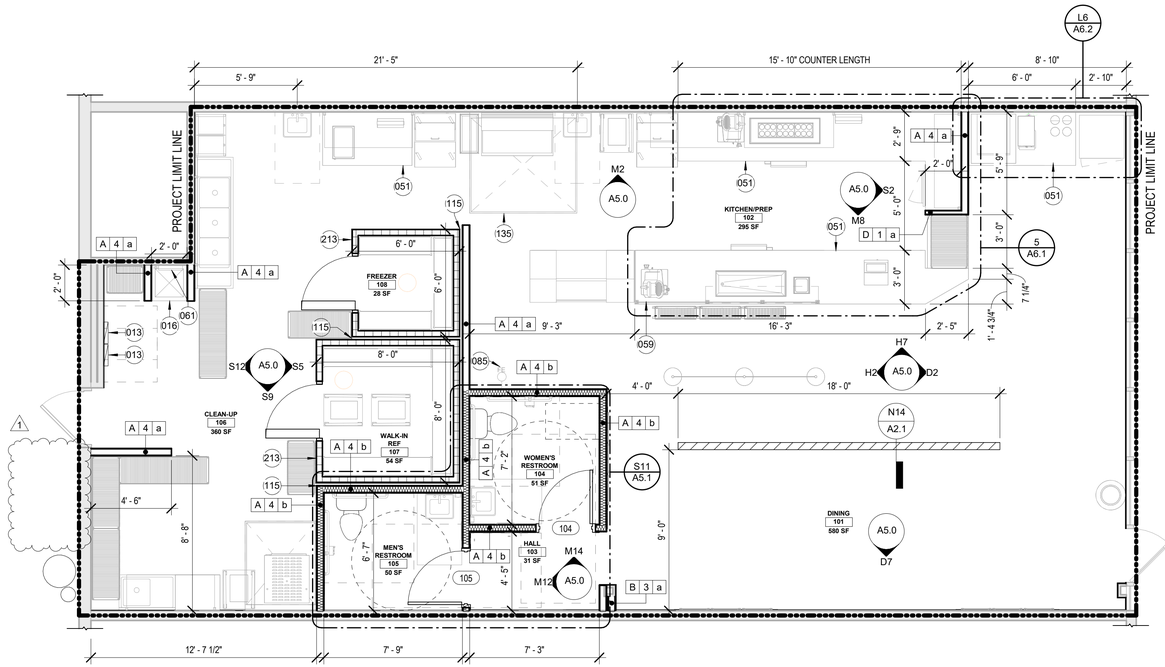
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DEMOLITION PLAN

Project #	43426-MO01
Issue Date	10/09/2026
Scale	As indicated
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G3 FLOOR PLAN
1/4" = 1'-0"

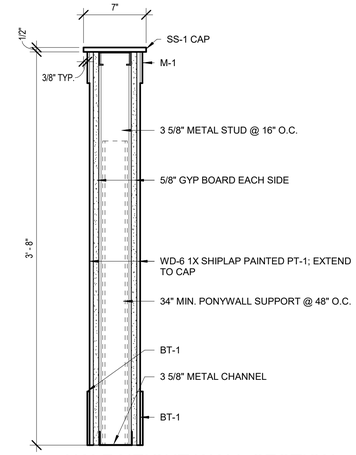
SHEET NOTES:

- ALL DOOR OPENINGS PERPENDICULAR TO A WALL ARE 4" FROM THE WALL UON
- ALL DIMENSIONS ARE TO FINISH FACE OF GWB UON
- REFERENCE SHEET A6.0 FOR PARTITION TYPES
- PROVIDE HARDWARE BY FOLLOWING MANUFACTURERS, OR EQUAL:

BUTTS:	STANLEY, MCKINNEY
LOCKSETS:	SHLAGE ND40
CLOSERS:	LCS 4041
ACCESSORIES:	ROCKWOOD, PIMCO
HARDWARE FINISH:	BRASS BASE 626 SATIN CHROME

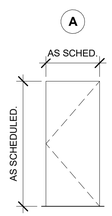
KEYNOTES: (XX)

KEY #	KEYNOTE TEXT
013	NEW ELECTRICAL PANELS. REF. ELECTRICAL DRAWINGS.
016	NEW MOP SINK BASIN, REF. PLUMBING DRAWINGS
051	MILLWORK/CASEWORK BY GC
059	HALF-HEIGHT PARTITION BELOW, SEE SECTIONS
061	WATER HEATER. REF. PLUMBING DRAWINGS FOR MORE INFORMATION.
085	PROVIDE FIRE EXTINGUISHER PER APPLICABLE FIRE CODE.
115	CLOSE OFF CORNERS OF WALK-IN COOLER BOX TO ADJACENT WALLS, USING 16 GA STAINLESS STEEL CLOSURE TRIM, EXTENDING FROM FLOOR TO CEILING.
135	TYPE I HOOD TO BE DESIGNED TO MEET 0 INCH REQUIREMENT FOR CLEARANCE TO COMBUSTIBLE MATERIALS IN ACCORDANCE WITH UL 710.
213	PROVIDE 3 5/8" METAL STUD W/ 5/8" GYP. BULKHEAD ABOVE WALK IN COOLER AND WALK IN FREEZER. FINISH W-2.

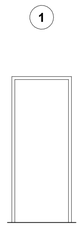


N14 HALF HEIGHT WALL SECTION
1 1/2" = 1'-0"

DOOR TYPES:



FRAME TYPES:



DOOR SCHEDULE

DOOR #	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	HARDWARE	FRAME TYPE	FRAME MATERIAL	Comments
104	3' - 0"	7' - 0"	A	WD-SC	HW1	1	HM	FINISH DOOR PT-5.
105	3' - 0"	7' - 0"	A	WD-SC	HW1	1	HM	FINISH DOOR PT-5.

WALL AND DOOR LEGEND

- EXISTING CONSTRUCTION TO BE DEMOLISHED
- EXISTING CONSTRUCTION TO REMAIN.
- PARTITION
- INSULATED PARTITION
- LOW PARTITION, SEE SECTIONS FOR HEIGHT
- RATED PARTITION
- EXISTING DOOR TO REMAIN
- NEW CONSTRUCTION DOOR

HARDWARE

HW1 INTERIOR RESTROOM
(1 1/2) BB BUTTS
(1) EA CYLINDRICAL LOCKSET, F76 W/ OCCUPANCY INDICATOR
(1) EA CLOSER
(1) EA WALL STOP
(1) EA SS MOP PLATE

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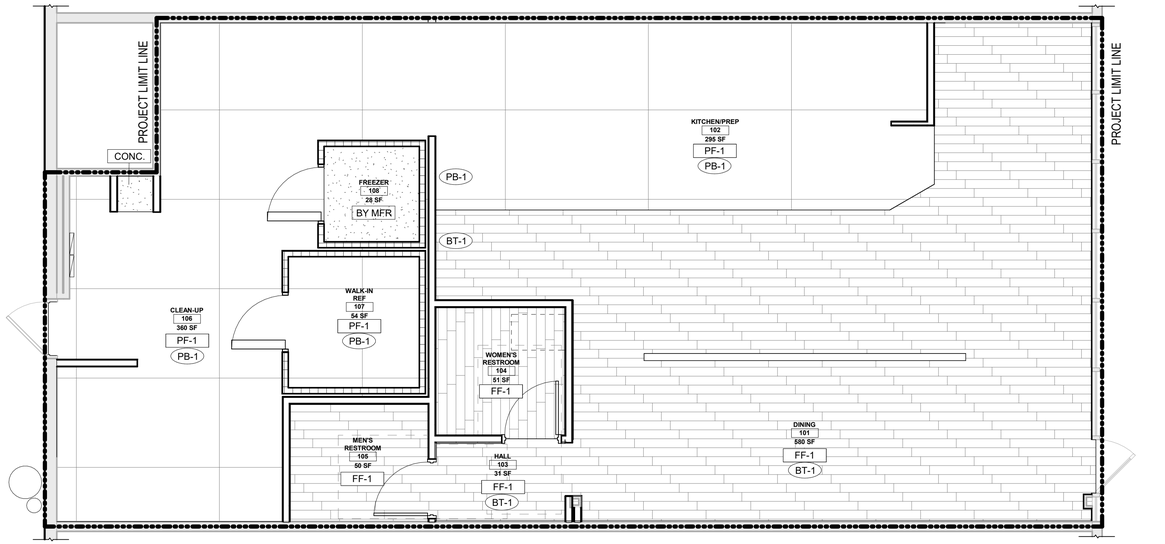
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ARCHITECTURAL FLOOR PLAN

Project #	43426-MO01
Issue Date	10/09/2026
Scale	As indicated
Drawn by	RS
Checked by	MMR

A2.1



G3 FINISH FLOOR PLAN
1/4" = 1'-0"

FINISH FLOOR NOTES

- NO PAINTING OR INTERIOR FINISHING SHALL BE DONE UNDER CONDITIONS WHICH WILL JEOPARDIZE THE QUALITY OR APPEARANCE OF SUCH WORK.
- ALL SURFACES SHALL BE PREPARED TO RECEIVE THE SPECIFIED FINISH. FINISH GYPSUM BOARD EXPOSED TO VIEW TO LEVEL 4.
- PROVIDE ONE PRIMER COAT AND 2 FINISH COATS AT ALL PAINTED WALLS.
- ALL VERTICAL SURFACES U.O.N. SHALL RECEIVE WALL BASE.
- EXAMINE ALL FINISH SURFACES AFTER COMPLETION OF WORK AND "TOUCH-UP" AS REQUIRED.
- UPON COMPLETION, REMOVE ALL PAINT FROM WHERE IT HAS SPILLED, SPLASHED OR SPLATTERED ON EXPOSED SURFACES.
- ALL INTERSECTIONS OF FLOOR FINISH MATERIALS SHALL BE LOCATED DIRECTLY UNDER CENTER OF DOOR, WHERE OCCURS. U.O.N.

ROOM FINISH SCHEDULE

RM #	RM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
101	DINING	FF-1	BT-1	SEE ELEV.	CT-2	
102	KITCHEN/PREP	PF-1	PB-1	SEE ELEV.	CT-1	
103	HALL	FF-1	BT-1	SEE ELEV.	CT-2	
104	WOMEN'S RESTROOM	FF-1	-	SEE ELEV.	CT-3	
105	MEN'S RESTROOM	FF-1	-	SEE ELEV.	CT-3	
106	CLEAN-UP	PF-1	PB-1	SEE ELEV.	CT-1	
107	WALK-IN REF	PF-1	PB-1	BY MFR.	BY MFR.	
108	FREEZER	BY MFR.	BY MFR.	BY MFR.	BY MFR.	SEE L11/A6.3.

FINISH SPECIFICATIONS (XX)

FLOORING AND WALL BASE

TAG	SOURCE	TYPE	DESCRIPTION	COLOR	COMMENTS
FF-1	DAL TILE	PROCELAIN TILE	6X36 JM BROWN WOOD	PART #N813 JM6361PR	CUSTOMER AREAS - DINING, RESTROOM, AND HALLWAY(S). 6"X36", 5/16 D. GROUT: MAPEI ULTRACOLOR PLUS FA - GRAY 09. GROUT JOINT RECOMMENDED AT 3/16". PATTERN TO BE INSTALLED IN RANDOM ARRANGEMENT.
PF-1	OSCODA PLASTICS	PROTECT ALL COMMERCIAL FLOORING	RUBBER FLOORING	1/4" DARK GREY - MATTE	KITCHEN AREA FLOORING. RECOMMEND THE USE OF ONE FLOOR DRAIN IN THE FRONT AND ONE FLOOR DRAIN IN THE BACK KITCHEN FOR PROPER FLOOR CLEANING. FLOORING TO BE INSTALLED BY AN APPROVED INSTALLER.
BT-1	DAL TILE	PROCELAIN TILE	IRON CRAFT	SABLE BLACK IC15 - UNPOLISHED	CUT FULL 12"X24" TILE (WT-2) DOWN TO 6"X12" FOR DINING ROOM WALL BASE, AND 4"X12" ON MILLWORK TOE KICK IN CUSTOMER AREAS. USE SCHLUTER DILEX-AHK (POLISHED NICKEL) WHEN COVE BASE APPLICATION IS REQUIRED. GROUT: MAPEI ULTRACOLOR PLUS FA - GRAY 09
PB-1	OSCODA PLASTICS	PROTECT ALL COMMERCIAL FLOORING WALL BASE	RUBBER FLOORING	1/4" DARK GREY - MATTE	6" HEIGHT WITH RAPID WELD COVE BASE SYSTEM. WALL BASE TO BE INSTALLED BY AN APPROVED INSTALLER

NOTES:
1. IF INTERIOR TRANSITIONS STRIPS ARE TO BE REQUIRED, USE SCHULTER-RENO IN SATIN ANODIZED ALUMINUM.
2. FOR COVE BASE APPLICATION IN THE RESTROOM(S), USE SCHLUTER DILEX-AHK (POLISHED NICKEL) BELOW FULL WT-2 TILES. NO CUT TILE IS REQUIRED. REFER TO ELEVATIONS.

COUNTER FINISHES

TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
SS-1	COUNTERTOP	CONSENTINO	SILESTONE - ETERNAL SERIES 2 CM	CHARCOAL SOAPSTONE - SUEDE	COUNTERTOP FINISH FOR ALL MILLWORK

WOOD

TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
WD-1	WAINSCOT	GC	1"X SHIPLAP, D. FIR NO2 (STANDARD) GRADE, SMOOTH FINISH	PAINTED PT-1	ON THE CUSTOMER SIDE OF THE FRONT LINE SOFFIT
WD-2	WAINSCOT	FIVE KIDS GROUP, INC	ENGINEERED WHITE OAK PANELING	WHITE OAK	ACCENT WALL (PER PLAN), BOTTOM OF CHAIR RAIL IN DINING ROOM AND VESTIBULE. BEVERAGE COUNTER MILLWORK DOORS. BANQUETTE BACK AND SEAT. USE SCHULTER JOLLY (POLISHED NICKEL) FOR WALL EDGING, WHEN REQUIRED.
WD-3	BAR COUNTER	FIVE KIDS GROUP, INC	TEAK		GC TO ORDER FROM FIVE KIDS GROUP. TABLETOP TO MATCH DINING ROOM TABLE TOPS
WD-4	FURNITURE BASE	GC		PAINTED PT-1	CONSTRUCTION OF DINING ROOM FURNITURE - COMMUNITY TABLE, BANQUETTE, AND BAR COUNTER.
WD-5	HARDWOOD CAP	GC	3/4" HARDWOOD	PAINTED PT-6	FOR LOW WALL CAP AND WINDOW SILLS, WHEN CONDITION(S) OCCUR. ALLOW 1/2" OVERHANG.
WD-6	WAINSCOT PANEL	MARLITE	ITEM #206916 23 3/4" X 96" X 1/2" PANEL	BY MANUFACTURER - PNL 9099	BEHIND BEACH CHAIR GRAPHICS IN DINING ROOM - REFER TO ELEVATIONS. FACE OF COUNTER ON THE FRONT LINE.

UPHOLSTERY

TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
UP-1	BANQUETTE	NASSAMI	TOLSTOY - SYMPHONY COLLECTION	WHISKEY	BANQUETTE SEATING - 3" THICK FOAM

WALL FINISHES

TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
W-1	STAINLESS STEEL WAINSCOT	CAPTIVE AIRE	BRUSHED S/S 20 GAUGE FROM TOP OF Q.T. BASE		FULL HEIGHT TO HOOD, BEHIND GRILL AND BREAD OVEN AREA
W-2	FRP WALL PANELING	MARLITE		WHITE	BACK KITCHEN FOOD PREP AREA

LAMINATES

TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
PL-1	MILLWORK	WILSONART	STEEL MESH	FINE VELVET FINISH 4879-38	MILLWORK BEHIND THE SERVICE LINE AND BACK KITCHEN. USE PVC EDGE BANDING.
PL-2	CUTTING BOARDS	WILSONART	NATURAL RECON	FINE VELVET FINISH 7996-38	21" X 21" X 1" CUTTING BOARDS FOR PICK UP TOWER - QTY 4. PEDESTAL BASE FOR PICK UP TOWER.

PAINT

TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
PT-1	SHIP LAP, SOFFIT, AND RESTROOM CEILINGS	BENJAMIN MOORE	OC-130	CLOUD WHITE, SATIN	CUSTOMER AREA SHIPLAP (AND SHIPLAP TRIM), FRONT LINE SOFFIT, AND RESTROOM WALLS (ABOVE TILE)
PT-2	5/8" GWP PAINTED	BENJAMIN MOORE	1613	SILENT NIGHT, SATIN	DINING ROOM AND HALLWAY WALLS ABOVE CHAIR RAIL.
PT-3	DOOR FRAME. WHEN OPEN CEILING - UPPER DINING ROOM WALLS AND DINING ROOM CIELING	BENJAMIN MOORE	1615	ROCK GRAY, SATIN	DOOR FRAME, IN OPEN CEILING CONDITION, EVERYTHING ABOVE 12' AFF IN DINING ROOM
PT-4					
PT-5	INTERIOR DOORS	MINWAX	WOOD FINISH PENETRATING STAIN	WEATHER OAK 270	FINISH WITH CLEAR TOP COAT
PT-6	LOW WALL/ SILL CAP	BENJAMIN MOORE	#2132-10	BLACK, EGGSHELL OR SEMI GLOSS	LOW WALL CAP AND WINDOW SILL FINISH.

WALL TILE

TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
WT-1	CERAMIC TILE	DAL TILE	2X8 MOD JM BLUE	PART#: N519 JM28MOD1P2. GROUT: MAPEI ULTRACOLOR PLUS FA-IRON 107 SABLE BLACK	BACK SPLASH TILE IN KITCHEN AND BEVERAGE COUNTER. RUNNING BOND. USE SCHULTER JOLLY (POLISHED NICKEL) FOR EDGING. WALL TILE EXTENDS TO CEILING TILES IN FRONT KITCHEN AREA. BEHIND THE PICK UP TOWER, AND ABOVE ALL BEVERAGE COUNTER WALLS (TYP. 10' AFF).
WT-2	CERAMIC TILE	DAL TILE	IRONCRAFT	IC15-UNPOLISHED - 12"X24". GROUT: MAPEI ULTRACOLOR PLUS FA - GRAY 09	BATHROOM BOTTOM WALL TILE. USE SCHULTER JOLLY (POLISHED NICKEL) FOR EDGING

METAL

TAG	SURFACE	SOURCE	PRODUCT	COLOR	COMMENTS
M-1	CHAIR RAIL	GC	1/8" X 3 1/2" HOT ROLLED STEEL	PAINTED IN BLACK SEMI-GLOSS	DINING ROOM CHAIR RAIL, WITH BUTTON HEAD HEX SOCKET SCREW

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Number A-011167
ARCHITECT

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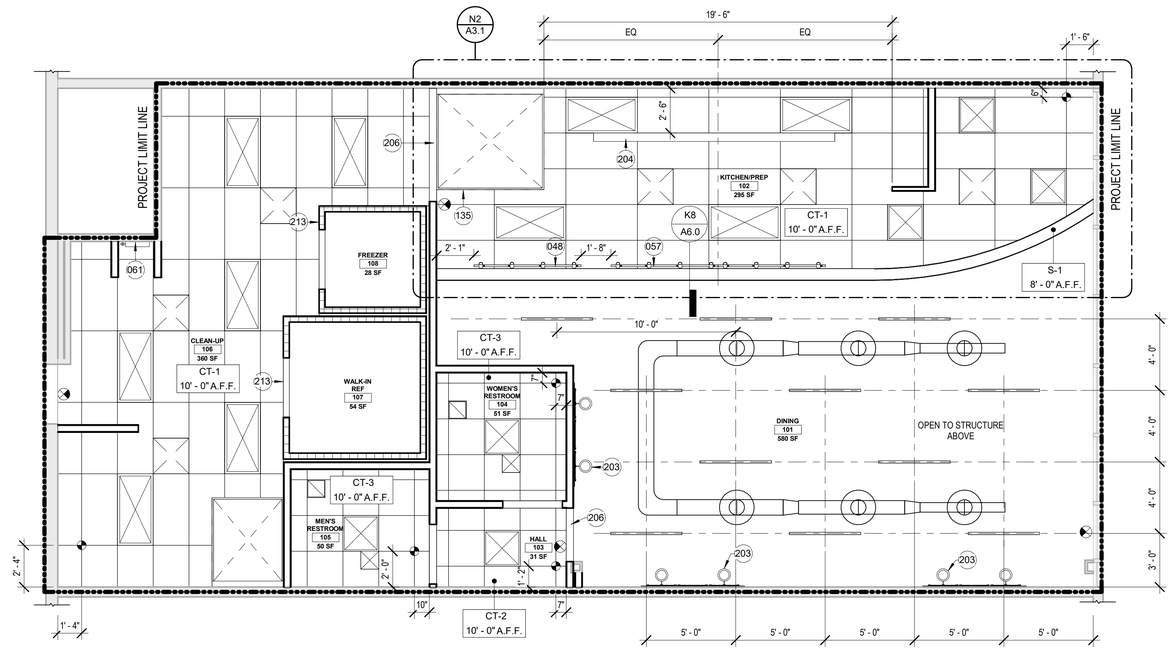
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FINISH PLAN AND SCHEDULE

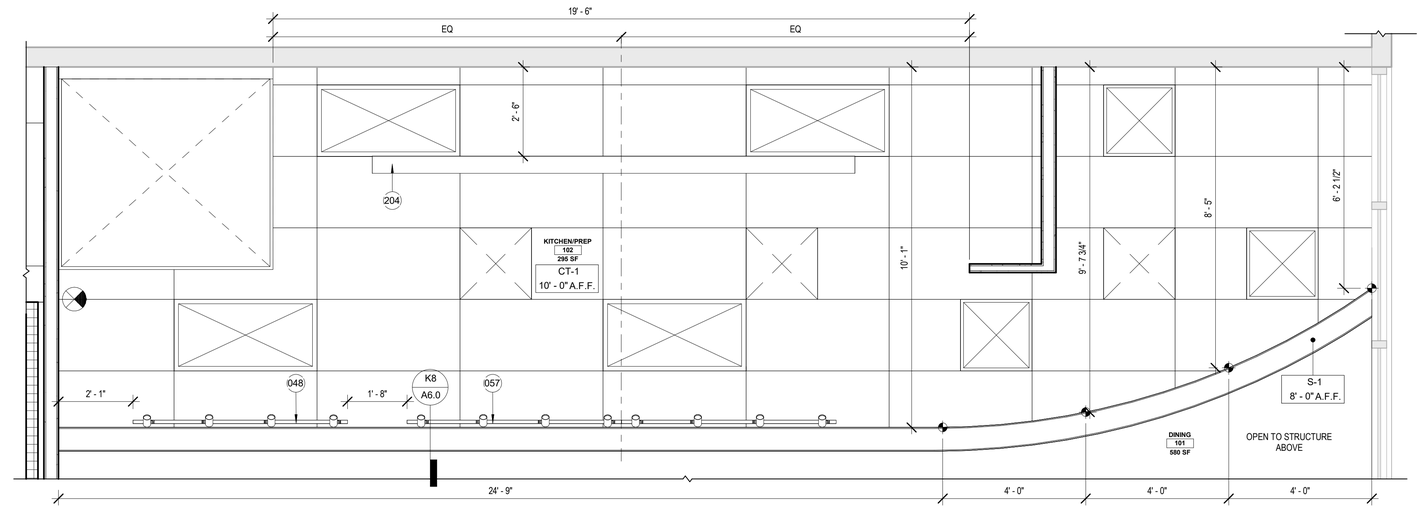
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Issue Date	10/09/2026
Scale	As indicated
Drawn by	RS
Checked by	MMR

A2.2

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H3 REFLECTED CEILING PLAN
1/4" = 1'-0"



N2 DIMENSIONS @ SOFFIT
1/2" = 1'-0"

SHEET NOTES:

- FIXTURES SHOWN ARE FOR LOCATION INFORMATION ONLY. REFERENCE MEP DRAWINGS FOR FIXTURE DESIGNATIONS AND CONNECTIONS.
- REFERENCE ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATION OF LIGHT FIXTURES.

KEYNOTES: (XX)

KEY #	KEYNOTE TEXT
048	TRACK LIGHTS TO BE POINTED DOWN TOWARD THE MEAT CASE AND SLICER.
057	DIRECT LIGHTS ON MENU
061	WATER HEATER. REF. PLUMBING DRAWINGS FOR MORE INFORMATION.
135	TYPE I HOOD TO BE DESIGNED TO MEET 0 INCH REQUIREMENT FOR CLEARANCE TO COMBUSTIBLE MATERIALS IN ACCORDANCE WITH UL 710.
203	REF ELEVATIONS FOR MOUNTING HEIGHT AND LOCATION OF LIGHT FIXTURE.
204	SUSPENDED MENU, PROVIDED BY OTHERS
206	FINISHED HEIGHT OF BULKHEAD TO BE 7'-0" AFF. PAINT UNDERSIDE OF HEADER PT-1.
213	PROVIDE 3 5/8" METAL STUD W/ 5/8" GYP. BULKHEAD ABOVE WALK IN COOLER AND WALK IN FREEZER. FINISH W-2.

LEGEND

- LED FIXTURE (2x2 FLAT PANEL)
- LED FIXTURE (2x2, 2X4, ETC). WITH PRISMATIC ACRYLIC LENS
- EXIT LIGHT. SEE SCHEDULE.
- DIFFUSERS AND RETURNS. FOR REFERENCE ONLY. "N" DESIGNATION DENOTES NEW FIXTURE (TYP.)

CEILING LEGEND

CEILING SCHEDULE

TAG	SOURCE	TYPE	COLOR	SIZE	COMMENTS
CT-1	SOURCE: ARMSTRONG	ACOUSTIC CEILING TILE VINYL FACED	WHITE VINYL	SIZE: 2' X 4'	FOOD PREP AREAS HD APPROVED VINYL FACED
CT-2	SOURCE: ARMSTRONG	ACOUSTIC CEILING TILE FISSURED 2X2 WITH TEGULAR EDGE	WHITE	SIZE: 2' X 2'	CUSTOMER AREA AND RESTROOM VESTIBULE
CT-3	SOURCE: ARMSTRONG	VINYL CEILING TILE FISSURED 2X2 WITH TEGULAR EDGE	WHITE	SIZE: 2' X 2'	RESTROOMS
S-1	SOURCE: BENJAMIN MOORE	FYP. SOFFIT		SEE ENLARGED RCP	SEE DETAIL
OC-1	OPEN CEILING	EXISTING	PT-3		DINING ROOM ONLY. FINISHES EXTENDED TO 12' AFF. EVERYTHING ABOVE TO BE PAINTED PT-3

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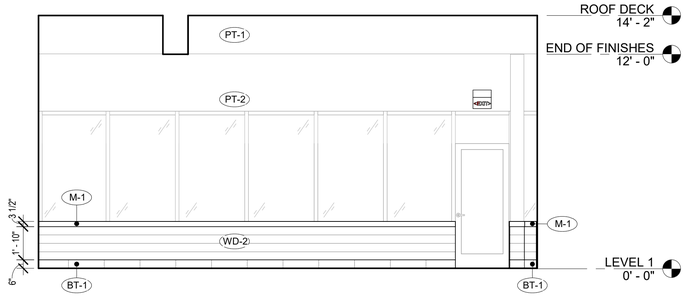
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REFLECTED CEILING PLAN

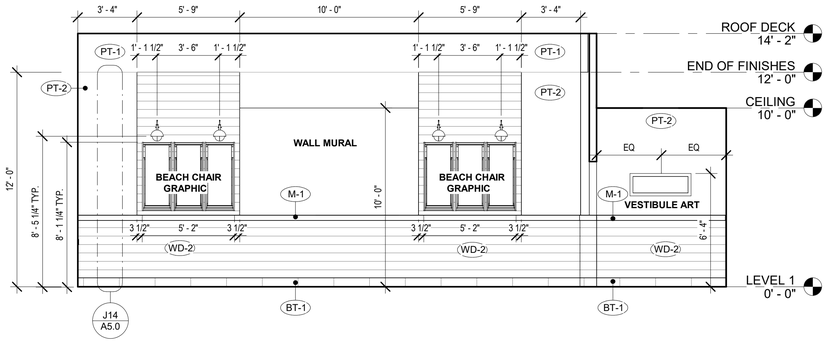
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A3.1

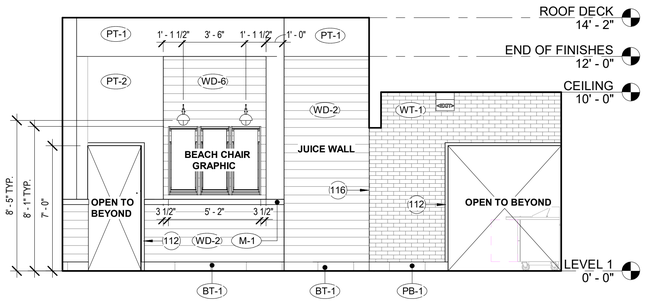
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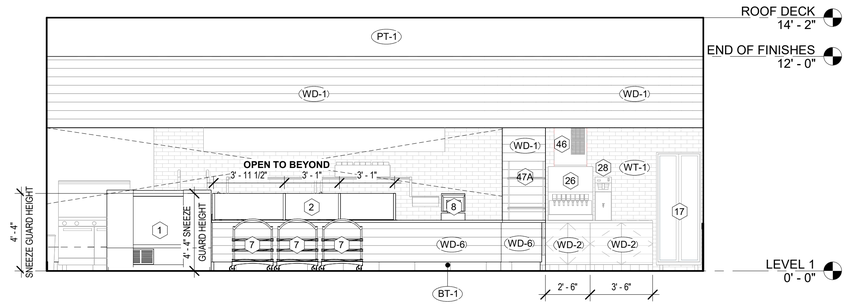
D2 DINING - NORTH
1/4" = 1'-0"



D7 DINING - EAST
1/4" = 1'-0"



H2 DINING - SOUTH
1/4" = 1'-0"



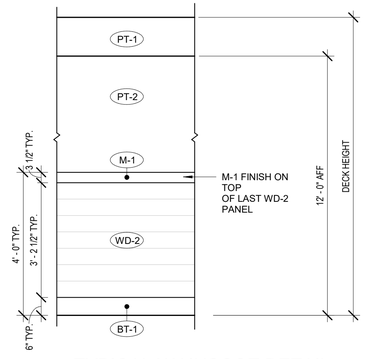
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1/4" = 1'-0"

SHEET NOTES:

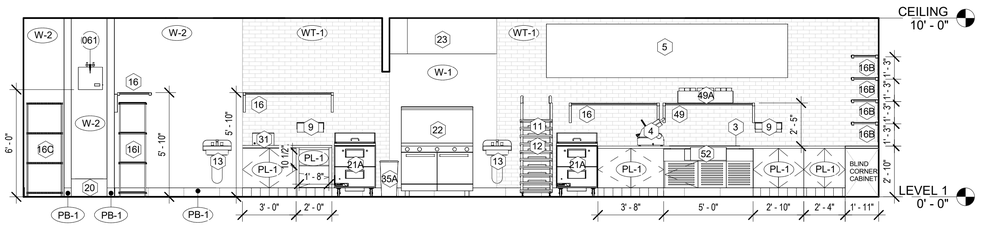
- PROVIDE BLOCKING WHERE NEEDED TO SUPPORT WALL MOUNTED EQUIPMENT AND FIXUTRES. COORDINATE LOCATIONS WITH INSTALLER. INSTALL BLOCKING PRIOR TO CLOSING UP WALL
- REFER TO FINISHES LEGEND - (A2.2) FOR FINISH DESIGNATIONS.
- REFER TO FINISH SCHEDULE - (A3.1) FOR CEILING TYPES
- REFER TO R1.1 FOR EQUIPMENT INFORMATION

KEYNOTES:

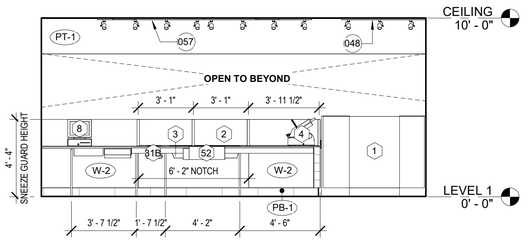
KEY #	KEYNOTE TEXT
002	EXISTING ELECTRIC PANEL TO REMAIN, REF. ELECTRICAL DRAWINGS
013	NEW ELECTRICAL PANELS. REF. ELECTRICAL DRAWINGS.
048	TRACK LIGHTS TO BE POINTED DOWN TOWARD THE MEAT CASE AND SLICER.
057	DIRECT LIGHTS ON MENU
061	WATER HEATER. REF. PLUMBING DRAWINGS FOR MORE INFORMATION.
095	GC TO ADD SYMBOL OF ACCESSIBILITY COMPLYING WITH ADA REQUIREMENTS. TACTILE LETTERS SHALL BE CONTRACTED (GRADE 2) AND SHALL BE BETWEEN 48 AND 60 INCHES AFF.
112	SCHLUTER EDGE AT OPENING-REFER TO FINISH SCHEDULE
115	CLOSE OFF CORNERS OF WALK-IN COOLER BOX TO ADJACENT WALLS, USING 16 GA STAINLESS STEEL CLOSURE TRIM, EXTENDING FROM FLOOR TO CEILING.
116	SCHLUTER EDGE AT MATERIAL TRANSITION - REFER TO FINISH SCHEDULE



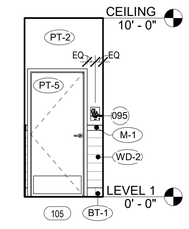
J14 TYPICAL WAINSCOT DETAIL
1/2" = 1'-0"



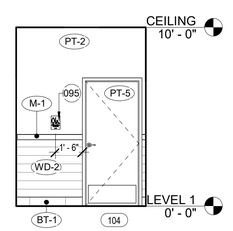
M2 KITCHEN /CLEAN UP - WEST
1/4" = 1'-0"



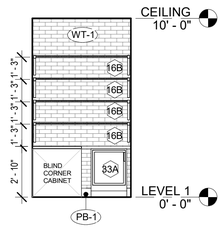
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1/4" = 1'-0"



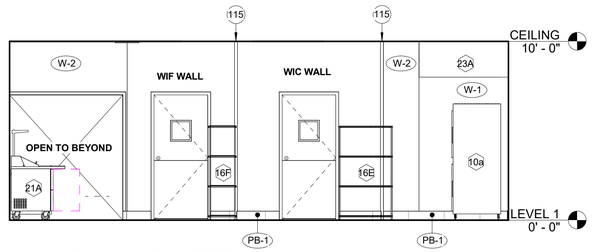
M12 HALL - SOUTH
1/4" = 1'-0"



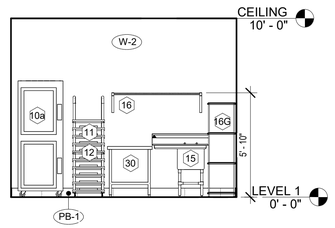
M14 HALL - WEST
1/4" = 1'-0"



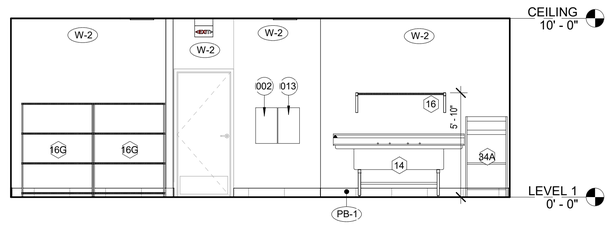
S2 KITCHEN NOOK - NORTH
1/4" = 1'-0"



S5 CLEAN UP - NORTH
1/4" = 1'-0"



S9 CLEAN UP - EAST
1/4" = 1'-0"



S12 CLEAN UP - SOUTH
1/4" = 1'-0"

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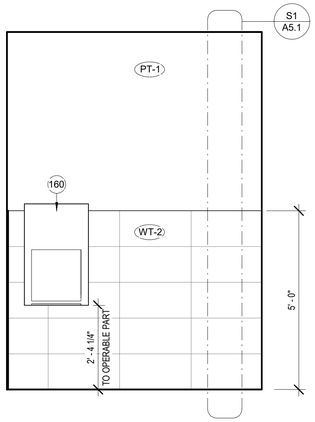
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INTERIOR ELEVATIONS

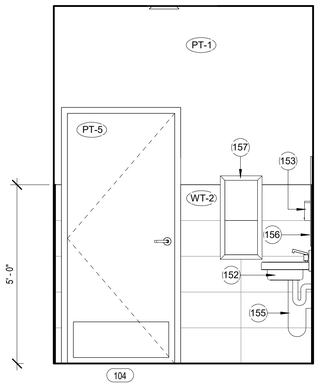
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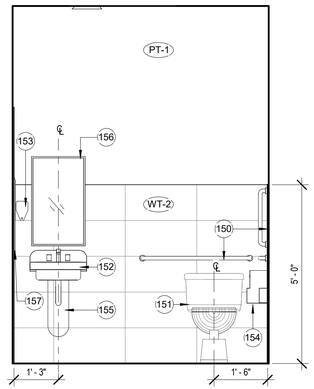
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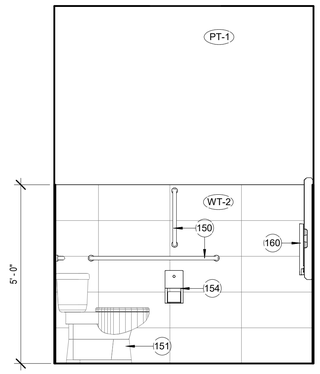
E1 WOMENS RR - NORTH
1/2" = 1'-0"



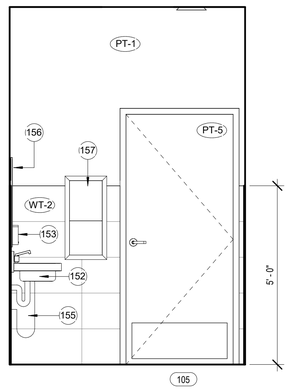
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1/2" = 1'-0"



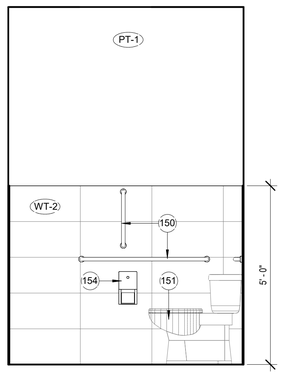
E7 WOMENS RR - SOUTH
1/2" = 1'-0"



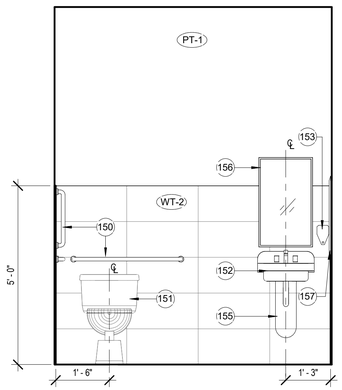
E11 WOMENS RR - WEST
1/2" = 1'-0"



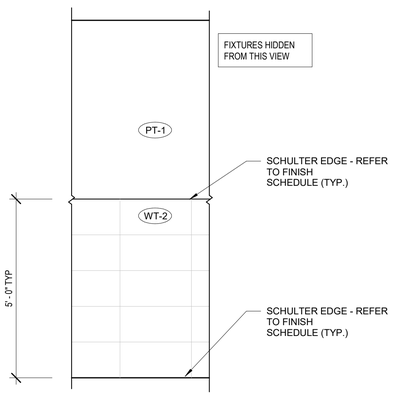
K4 MENS RR - NORTH
1/2" = 1'-0"



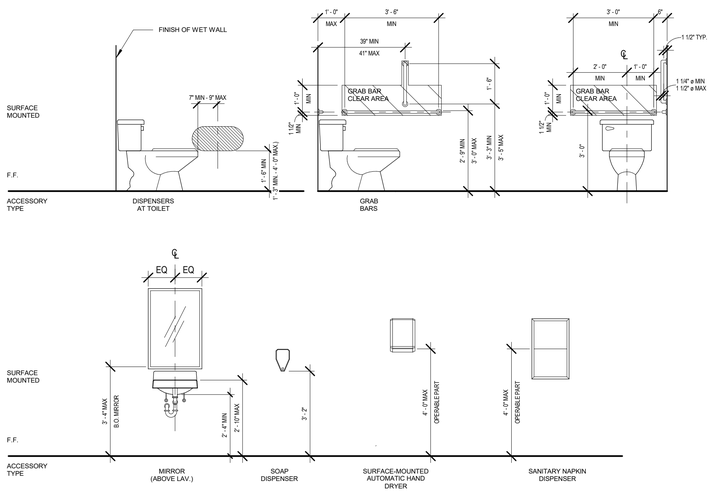
K7 MENS RR - SOUTH
1/2" = 1'-0"



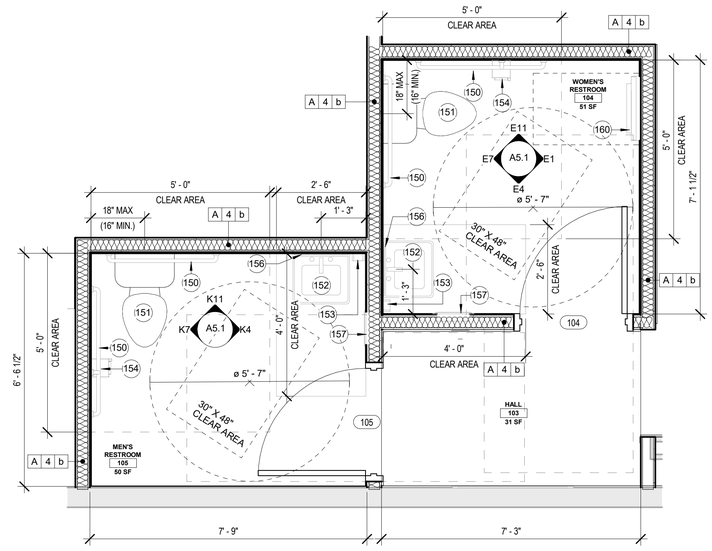
K11 MENS RR - WEST
1/2" = 1'-0"



S1 TYPICAL RR WALL TILE DETAIL
1/2" = 1'-0"



S5 RESTROOM MOUNTING HEIGHTS
3/8" = 1'-0"



S11 ENLARGED RESTROOM PLAN
1/2" = 1'-0"

SHEET NOTES:

- PROVIDE BLOCKING WHERE NEEDED TO SUPPORT WALL MOUNTED EQUIPMENT AND FIXUTRES. COORDINATE LOCATIONS WITH INSTALLER. INSTALL BLOCKING PRIOR TO CLOSING UP WALL
- REFER TO FINISHES LEGEND - (A2.2) FOR FINISH DESIGNATIONS.
- REFER TO FINISH SCHEDULE - (A3.1) FOR CEILING TYPES
- REFER TO R1.1 FOR EQUIPMENT INFORMATION

KEYNOTES:

KEY #	KEYNOTE TEXT
150	PROVIDE ADA GRAB BAR. DIAMETER OF THE GRIPPING SURFACE PF THE GRAB BAR SHALL BE 1-1/4" TO 1-1/2". BARS SHOULD MAINTAIN A DISTANCE OF 1-1/2" FROM INSIDE OF BAR TO FINISH WALL.THE REAR WALL GRAB BAR SHALL BE 36 INCHES (915MM) LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES (305MM) MINIMUM ON ONE SIDE AND 24 INCHES (610MM) MINIMUM ON THE OTHER SIDE.
151	PROVIDE ADA COMPLIANT WATER CLOSET.
152	PROVIDE ADA COMPLIANT LAVATORY.
153	SOAP DISPENSER FURNISHED BY OWNER AND INSTALLED BY GC.
154	PROVIDE TOILET PAPER DISPENSER. TOILET PAPER DISPENSER TO BE MOUNTED 15" MIN. A.F.F. AND 1 1/2" MIN. BELOW GRAB BARS. IF MOUNTED ABOVE GRAB BARS, ENSURE 12" MIN. OF SPACE BETWEEN BOTTOM OF DISPENSER AND TOP OF GRAB BAR. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.
155	PROVIDE ADA PIPE GAURD.
156	PROVIDE ADA COMPLIANT MIRROR.
157	RECESSED PAPER TOWEL DISPENSER FURNISHED BY OWNER AND INSTALLED BY GC. OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES (685MM) AND NOT MORE THAN 80 INCHES (2030MM) ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES (100MM) MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH.
160	PROVIDE ADA COMPLAINT BABY CHANGING STATION.

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Missouri Corporate Authority Number #814.
Missouri Architect in responsible Charge - Ronald Melvin Reim AR-5489.

STATE OF MISSOURI
RONALD MELVIN REIM
2010011672
ARCHITECT

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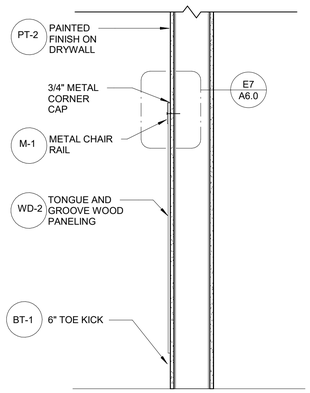
Client Approval

INTERIOR ELEVATIONS

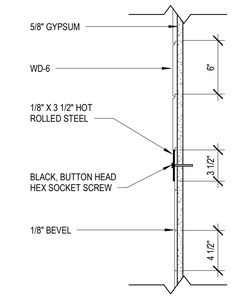
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Issue Date	10/09/2026
Scale	As indicated
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A5.1

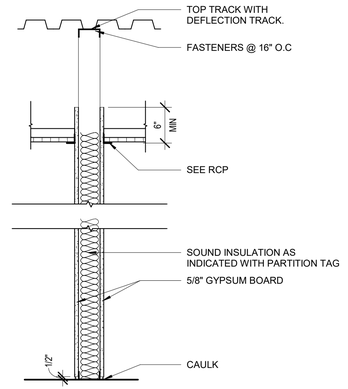
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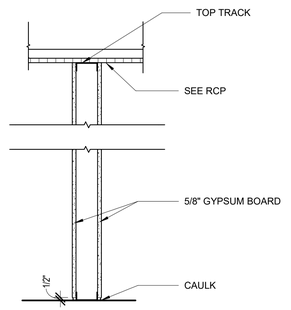
E3 SECTION @ HALLWAY/DINING CHAIR RAIL
1" = 1'-0"



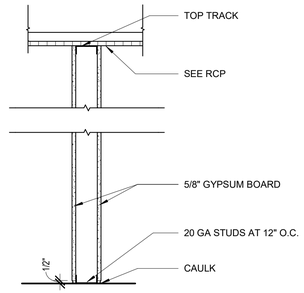
E7 HARDWARE DETAIL AT BEACH CHAIRS
1 1/2" = 1'-0"



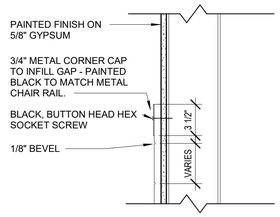
A PARTITION TYPE A
1" = 1'-0"



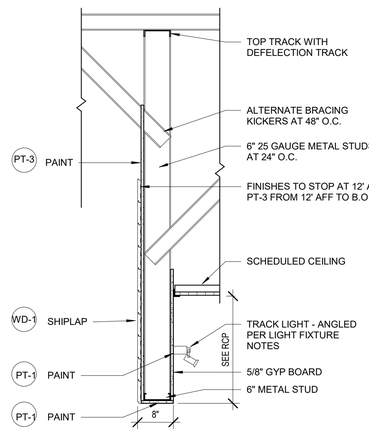
D PARTITION TYPE D
1" = 1'-0"



H4 PARTITION TYPE D1
1" = 1'-0"



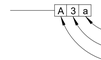
H7 HARDWARE DETAIL @ HALLWAY/DINING
1 1/2" = 1'-0"



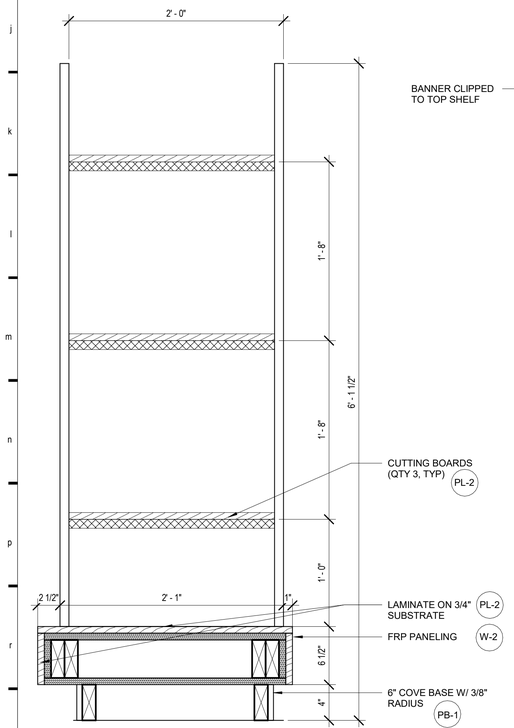
K8 SOFFIT @ DINING ROOM
3/4" = 1'-0"

PARTITION TAG NOTES

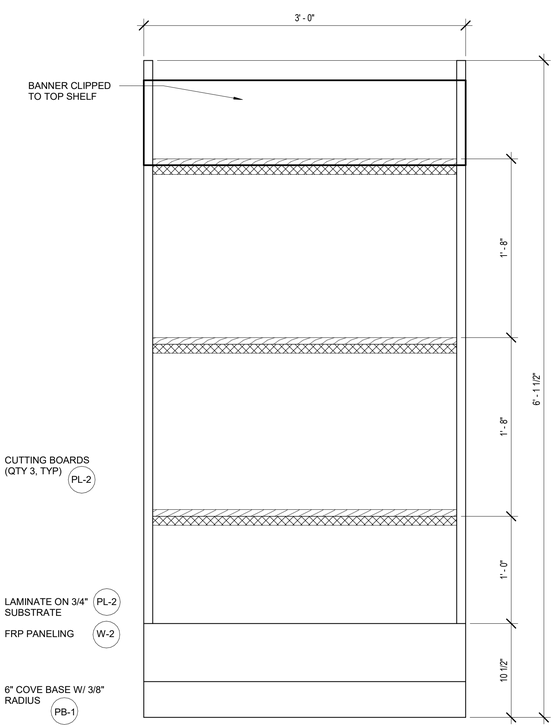
THE PARTITION/WALL DESIGNATION IS A THREE-UNIT CODE THAT DENOTES THE CONFIGURATION, CONSTRUCTION, AND INSULATION OF THE PARTITION, AS FOLLOWS:



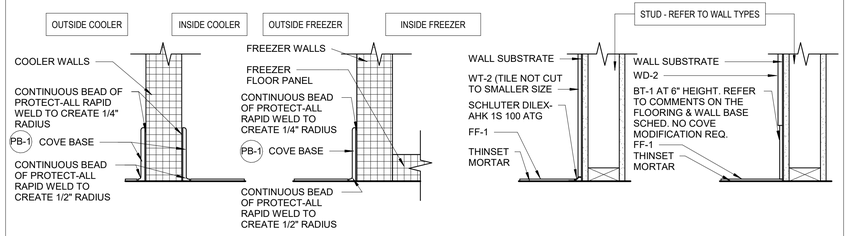
1	1 5/8" 20 GA. METAL STUD @ 12" O.C.	a	NO INSULATION
2	NOT USED	b	SOUND ATTENUATION BLANKETS
3	2 1/2" 25 GA. METAL STUD @ 16" O.C.	c	RIGID INSULATION
4	3 5/8" 25 GA. METAL STUD @ 16" O.C.	d	R19 BATT THERMAL INSULATION
6	4" 25 GA. METAL STUD @ 16" O.C.		
8	6" 25 GA. METAL STUD @ 16" O.C.		



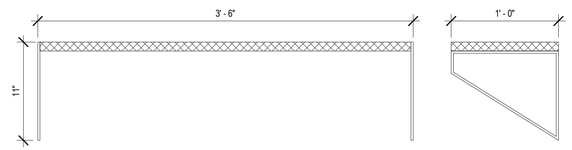
S1 36" PICK UP TOWER SECTION
1 1/2" = 1'-0"



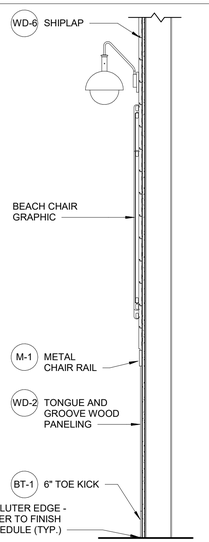
S4 36" PICK UP TOWER ELEVATION
1 1/2" = 1'-0"



P8 DETAIL @ WALL BASE
1 1/2" = 1'-0"



S8 JUICE BOTTLE SHELF ELEVATION
1 1/2" = 1'-0"



S14 SECTION @ BEACH CHAIR GRAPHIC
3/4" = 1'-0"

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STATE OF MISSOURI BRIAN MARK SCHULTE 2008011673 ARCHITECT

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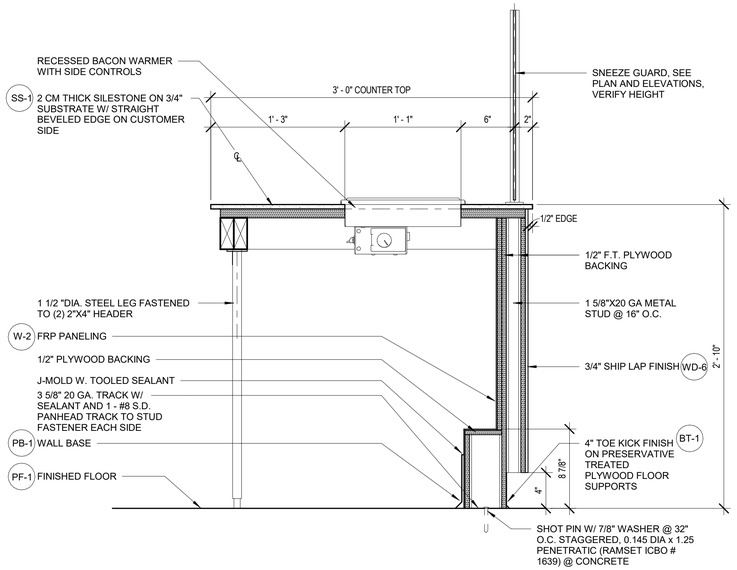
Client Approval

PARTITION TYPES & DETAILS

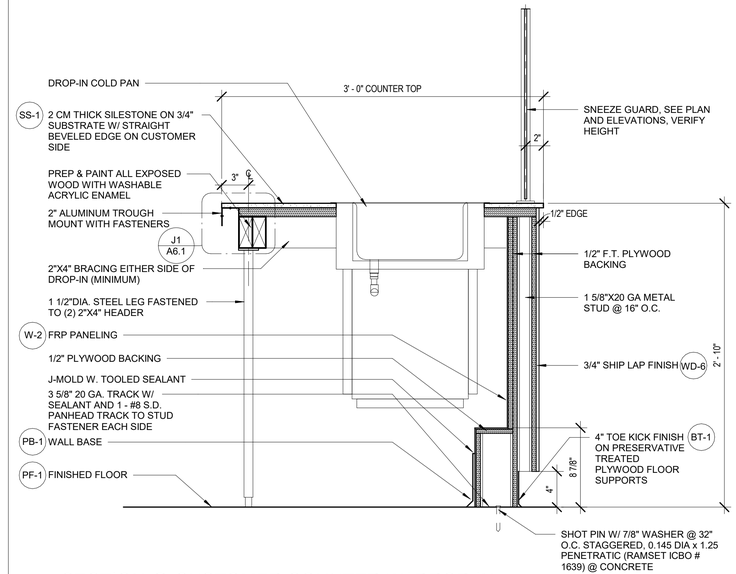
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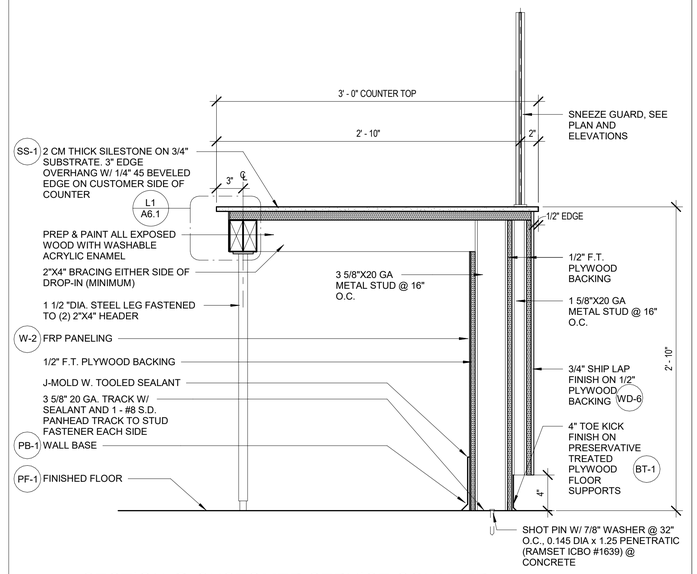
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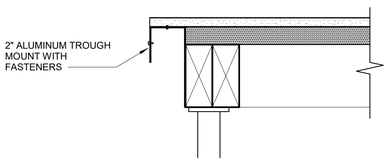
G1 SECTION @ CUSTOMER COUNTER W/ BACON WARMER
1 1/2" = 1'-0"



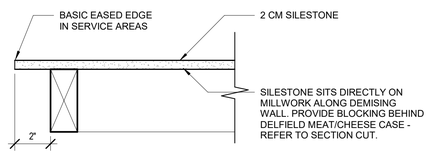
G7 SECTION @ CUSTOMER COUNTER W/ DROP-IN
1 1/2" = 1'-0"



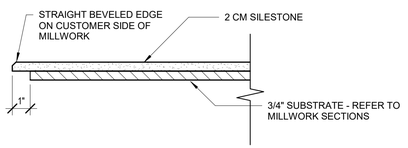
G12 SECTION @ CUSTOMER SERVICE COUNTER
1 1/2" = 1'-0"



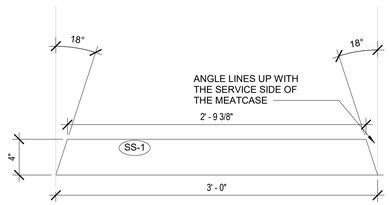
J1 TROUGH ATTACHMENT DETAIL
3" = 1'-0"



L1 SILESTONE @ KITCHEN COUNTER
3" = 1'-0"



N1 SILESTONE @ FRONT LINE AND BEVERAGE LINE
3" = 1'-0"



S1 SIDESPLASH ELEVATION @ MEATCASE
1 1/2" = 1'-0"

S5 15' - 9" COUNTER CONFIGURATION
1" = 1'-0"

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Missouri Architect in responsible Charge - Ronald Melvin Reim AR-5489.

STATE OF MISSOURI RONALD MELVIN REIM AR-5489 ARCHITECT

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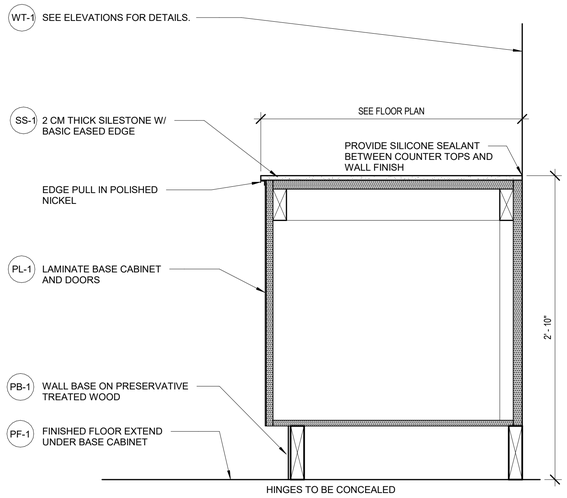
Client Approval

MILWORK DETAILS

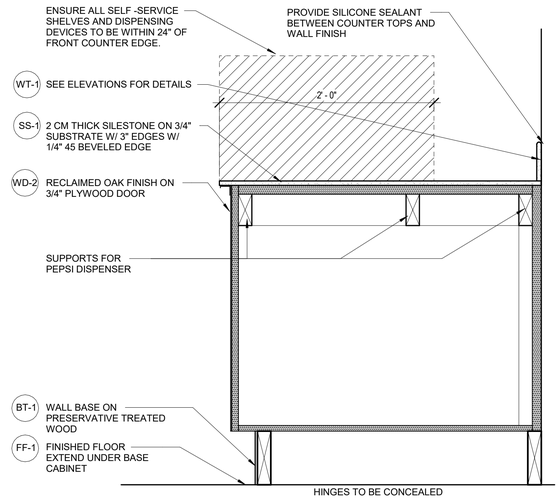
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Scale	As indicated
Drawn by	RS
Checked by	MMR

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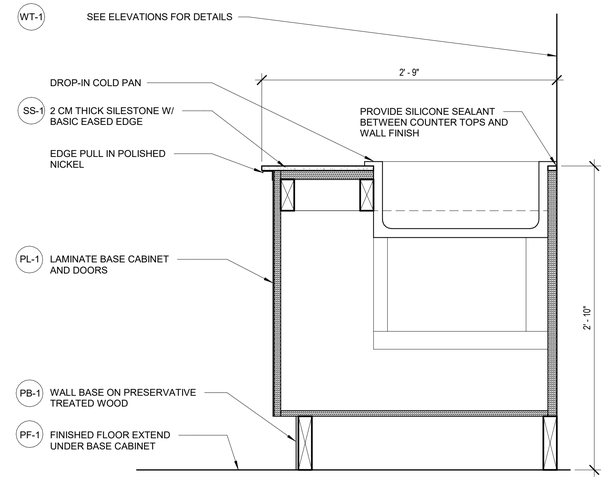
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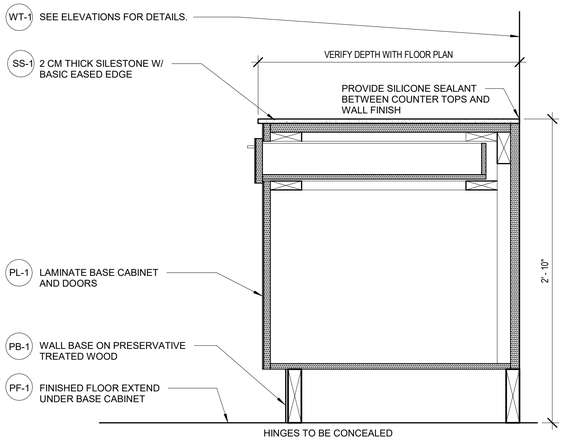
F1 SECTION @ DEMISING WALL
1 1/2" = 1'-0"



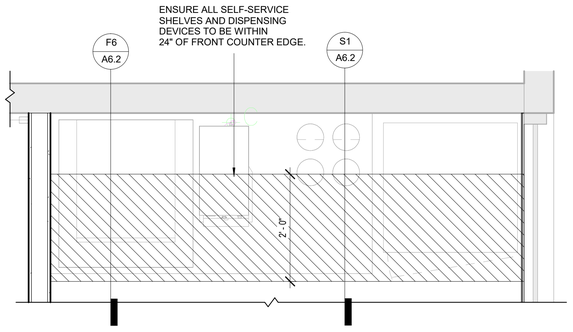
F6 SECTION @ BEVERAGE COUNTER MILLWORK
1 1/2" = 1'-0"



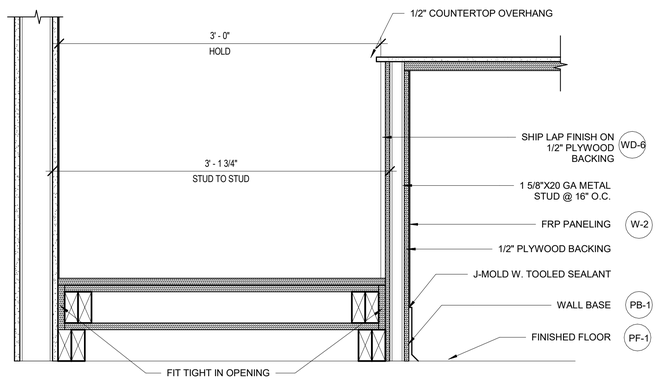
F11 SECTION @ DROP-IN UNIT
1 1/2" = 1'-0"



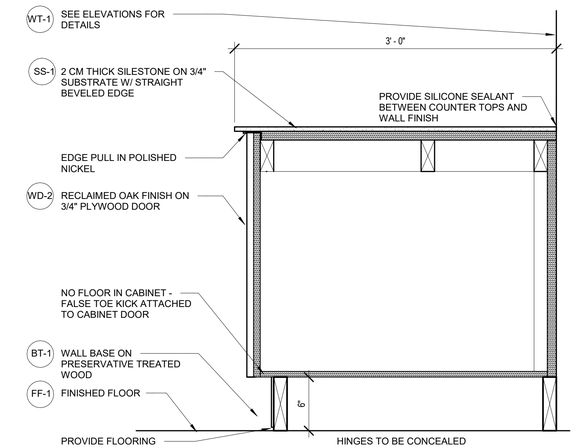
L1 SECTION @ DRAWER AND DOOR BASE
1 1/2" = 1'-0"



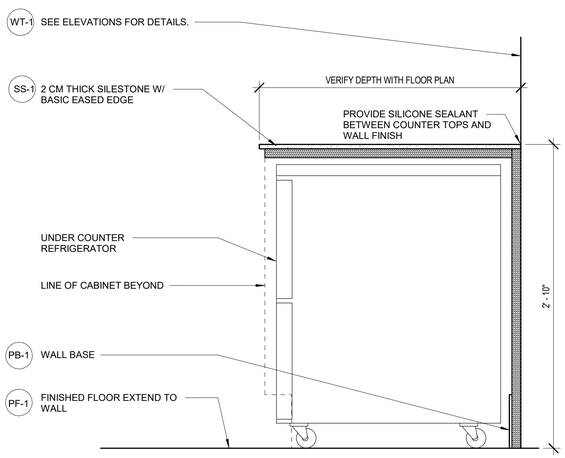
L6 ENLARGED PLAN - SELF SERVE COUNTER
3/4" = 1'-0"



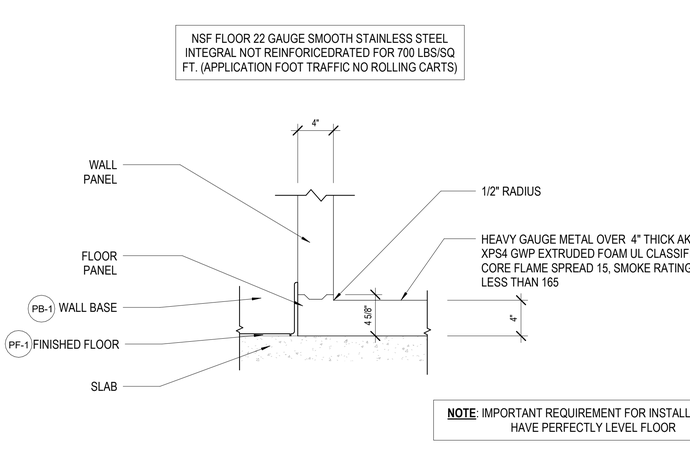
L11 SECTION @ TAKE OUT SHELF
1 1/2" = 1'-0"



S1 SECTION @ PEPSI FOUNTAIN BASE CABINET
1 1/2" = 1'-0"



S6 SECTION @ UNDERCOUNTER FRIDGE
1 1/2" = 1'-0"



S11 W.I.F. FLOOR DETAIL
1 1/2" = 1'-0"

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Missouri Architect in responsible Charge - Ronald Melvin Reim AR-5489.

STATE OF MISSOURI RONALD MELVIN REIM 2008011675 ARCHITECT

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Client Approval

MILWORK DETAILS

Project #	43426-MO01
Issue Date	10/09/2026
Scale	As indicated
Drawn by	RS
Checked by	MMR

A6.2

10/20/2026 5:26:46 PM JERSEY MIKES - KANSAS CITY

SUMMARY

A. GENERAL AND SUPPLEMENTARY CONDITIONS WITHIN THE SPECIFICATIONS ARE HEREBY INCORPORATED AND BECOME PART OF THESE SPECIFICATIONS AND AS SUCH SHALL BE APPLICABLE TO THE WORK OF THE ELECTRICAL CONTRACT.

B. PRIOR TO SUBMISSION OF A BID PROPOSAL, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND LIMITATIONS THAT IMPACT THE WORK OF THIS CONTRACT. NO ADDITIONAL COSTS TO THE OWNER SHALL BE PERMITTED FOR CHANGES TO THE WORK AS A RESULT OF THE CONTRACTORS FAILURE TO VISIT THE SITE PRIOR TO BIDDING AND IDENTIFY ITEMS THAT WERE ABLE TO BE VERIFIED DURING A SITE VISIT PRIOR TO THE SUBMISSION OF A BID PROPOSAL.

C. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, EQUIPMENT, RIGGING, AND MISCELLANEOUS ITEMS AS REQUIRED FOR A COMPLETE, OPERATIONAL, FUNCTIONAL AND CODE COMPLIANT ELECTRICAL INSTALLATION AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THESE SPECIFICATIONS.

LANDLORDS REQUIREMENTS

A. ALL WORK OF THIS CONTRACT SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL APPLICABLE LANDLORD REQUIREMENTS INCLUDING BUT NOT NECESSARILY LIMITED TO; LANDLORD'S WORK LETTER, LANDLORD'S CONSTRUCTION CRITERIA AND/OR THE TENANT/LANDLORD AGREEMENT. THIS CONTRACTOR SHALL EXAMINE THESE DOCUMENTS PRIOR TO THE SUBMISSION OF A BID PROPOSAL.

B. ALL APPLICABLE LANDLORD REQUIREMENTS INCLUDING BUT NOT NECESSARILY LIMITED TO THE LANDLORD'S WORK LETTER, LANDLORDS CONSTRUCTION CRITERIA AND/OR THE TENANT/LANDLORD AGREEMENT DOCUMENTS SHALL BE CONSIDERED PART OF THESE SPECIFICATIONS.

EXISTING CONDITIONS

A. THE CONTRACT DOCUMENTS ARE BASED ON INFORMATION PROVIDED TO THE CONSULTANT AT THE TIME OF DESIGN. THIS CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID PROPOSAL.

BIDS AND SUBSTITUTIONS

A. PRIOR TO SUBMISSION OF A BID PROPOSAL, CONTRACTOR SHALL THOROUGHLY REVIEW THE BID INSTRUCTIONS AND ALL CIVIL, ARCHITECTURAL, STRUCTURAL, FOOD SERVICE AND MEPFP AND TELECOMMUNICATION CONSTRUCTION DOCUMENTS.

B. SHOULD THE CONTRACTOR WISH TO SUBMIT AN ALTERNATE PRODUCT TO THE MANUFACTURERS NAMED IN THESE SPECIFICATIONS OR ON THE DRAWINGS FOR ANY EQUIPMENT, THE CONTRACTOR SHALL SUBMIT A VOLUNTARY ALTERNATIVE A MINIMUM OF SEVEN (7) CALENDAR DAYS PRIOR TO BID, STATING THE MANUFACTURER'S NAME, MODEL NUMBER, WRITTEN, DETAILED PRODUCT DATA.

C. WORK PERFORMED OR CONSTRUCTED WITH UNAPPROVED EQUALS IS AT CONTRACTOR'S RISK AND ANY REQUIRED CORRECTION OF WORK INCORPORATING UNAPPROVED EQUALS SHALL BE AT CONTRACTOR'S SOLE COST AND EXPENSE.

QUALITY ASSURANCE

A. ALL MATERIALS AND EQUIPMENT SHALL BE NEW.

B. PROVIDE PERMITS, INSPECTIONS, FINAL CERTIFICATES OF INSPECTION BY THE AUTHORITY HAVING JURISDICTION, PERMIT AND INSPECTION FEES AND ALL MATERIALS, EQUIPMENT AND LABOR AS REQUIRED FOR A COMPLETE, FUNCTIONAL, FULLY OPERATIONAL AND CODE COMPLIANT ELECTRICAL SYSTEM.

C. THIS CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND ACCESSORIES FOR A COMPLETE FUNCTIONAL AND CODE COMPLIANT ELECTRICAL INSTALLATION, WHETHER OR NOT SHOWN ON THE DRAWINGS OR SPECIFIED IN THESE SPECIFICATIONS.

D. EC SHALL VERIFY THE VOLTAGE AND AMPERAGE REQUIREMENTS OF ALL EQUIPMENT DELIVERED TO THE SITE PRIOR TO CONNECTION. EC SHALL NOTIFY THE OWNER OF ANY DIFFERENCES

E. REQUIREMENTS OF REGULATORY AGENCIES:

1. PERMITS: ARRANGE AND PAY FOR ALL PERMITS, INSPECTIONS AND UTILITY CONNECTIONS REQUIRED.
2. PROVIDE ALL TESTS AND INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
3. PROVIDE A SIGNED CERTIFICATE OF INSPECTION AT THE COMPLETION OF THE PROJECT. INCLUDE IN OPERATION AND MAINTENANCE MANUALS.

F. CODES AND STANDARDS

1. COMPLY WITH SPECIFIED CODES AND STANDARDS. IF CONFLICT EXISTS BETWEEN CODES OR STANDARDS AND DRAWINGS, PROJECT MANUAL OR ADDENDA REQUIREMENTS, REQUEST CLARIFICATION FROM ARCHITECT/ENGINEER.
2. CONFORM TO THE INSTALLATION RULES AND REGULATIONS OF THE CODES AND STANDARDS LISTED INCLUDING ALL SUBSEQUENTLY PUBLISHED AMENDMENTS THERETO ISSUED PRIOR TO THE DATE OF THE BIDDING DOCUMENTS.
3. CONFORM TO THE REQUIREMENTS OF ALL LOCAL, STATE AND FEDERAL AGENCIES WHICH HAVE AUTHORITY OVER THIS PROJECT.
4. COMPLY WITH THE APPLICABLE EDITION OF THE FOLLOWING CODES AND STANDARDS THAT HAVE BEEN ADOPTED BY AND ARE ENFORCED BY THE AUTHORITY HAVING JURISDICTION:
   a. INTERNATIONAL BUILDING CODE.
   b. IECC
   c. INTERNATIONAL MECHANICAL CODE
   d. NATIONAL ELECTRICAL CODE
   e. INTERNATIONAL FIRE CODE
   f. LIFE SAFETY CODE, NFPA 101
   g. AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
   h. ALL LOCAL CODES AND ORDINANCES ADOPTED AND ENFORCED BY THE AUTHORITY HAVING JURISDICTION.

G. REFERENCED STANDARDS:

1. ALL EQUIPMENT, APPARATUS, MATERIALS AND SYSTEMS SHALL BE RATED, TESTED, FABRICATED AND INSTALLED IN ACCORDANCE WITH THE APPLICABLE INDUSTRY STANDARDS.
2. ALL EQUIPMENT, APPARATUS, MATERIALS AND SYSTEMS SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (UL, ETL, ETC)

ELECTRICAL CONTRACT DOCUMENTS

A. THE ELECTRICAL DRAWINGS (DRAWINGS) AND THE SPECIFICATIONS SHALL TOGETHER FORM A SET OF CONTRACT DOCUMENTS FOR THE ELECTRICAL WORK. NEITHER THE DRAWINGS OR THE SPECIFICATIONS SHALL BE COMPLETE WITHOUT THE OTHER. ANY ITEM SHOWN ONLY ON THE DRAWINGS OR SPECIFIED ONLY IN THE SPECIFICATIONS SHALL BE CONSIDERED AS IF SHOWN AND SPECIFIED IN BOTH.

B. ELECTRICAL DRAWINGS AND SPECIFICATIONS: COMPLY WITH THE FOLLOWING REQUIREMENTS:

1. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL DRAWINGS AND SPECIFICATIONS WITHIN THE CONTRACT DOCUMENTS, INCLUDING, BUT NOT NECESSARILY LIMITED TO, GEOTECHNICAL, LANDSCAPE, CIVIL, ARCHITECTURAL, STRUCTURAL, FOOD SERVICE, MECHANICAL, PLUMBING, TELECOMMUNICATION AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS.
2. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO INDICATE APPROXIMATE LOCATION ONLY OF ELECTRICAL WORK. THE ACTUAL LOCATION OF ANY ELECTRICAL WORK SHALL NOT INTERFERE WITH THE LOCATION, CLEARANCES, ETC. REQUIRED BY THE WORK OF OTHER TRADES.
3. PRIOR TO ROUGH-IN, CONTRACTOR SHALL COORDINATE ALL DEVICE LOCATIONS WITH THE ARCHITECTURAL WALL ELEVATIONS, CASEWORK/CABINETRY ELEVATIONS AND DETAILS AND THE FINAL, APPROVED FOOD SERVICE SHOP DRAWINGS.

C. DEFINITIONS: THE FOLLOWING TERMS ARE USED ON THE ELECTRICAL DRAWINGS AND IN THE SPECIFICATIONS AND SHALL BE DEFINED AS FOLLOWS:

1. CONTRACTOR - THE ELECTRICAL CONTRACTOR OR ANY OF THEIR SUB-CONTRACTORS.
2. WORK - ALL MATERIAL, LABOR, TRANSPORTATION OF THE ELECTRICAL CONTRACTOR OR ANY OF THEIR SUB-CONTRACTORS.
3. FURNISH - PURCHASE, SUBMIT FOR REVIEW AND APPROVAL, COORDINATE WITH THE CONTRACT DOCUMENTS AND DELIVER TO THE PROJECT SITE IN NEW, UNDAMAGED CONDITION, STORE AS DIRECTED, PROTECT FROM DAMAGE DURING STORAGE.
4. INSTALL - INSTALL IN PLACE, MAKE READY FOR CONNECTION TO THE REQUIRED SERVICE.
5. CONNECT - CONNECT TO THE REQUIRED SERVICE AS REQUIRED FOR PROPER OPERATION, TEST FOR PROPER OPERATION AND FUNCTIONALITY IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND REQUIREMENTS SPECIFIED WITHIN THESE SPECIFICATIONS AND TURN OVER TO THE OWNER IN FULL OPERATING CONDITION.
6. PROVIDE - FURNISH, INSTALL AND CONNECT AS DEFINED HEREIN FOR A COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION READY FOR INTENDED USE.
7. FINISHED SPACE - SPACES HAVING WALLS PAINTED OR FINISHED WITH WALL COVERING, LAY-IN OR DRYWALL CEILINGS, AND FINISHED FLOORING MATERIALS. EXAMPLES OF FINISHED SPACES INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, ALL SPACES IN A DWELLING UNIT, OFFICES, LOBBIES, CORRIDORS, TOILET ROOMS, ETC.
8. UNFINISHED SPACES - SPACES WITH UNFINISHED WALLS AND FLOORS AND TYPICALLY ARE NOT EQUIPPED WITH A CEILING. EXAMPLES INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, MECHANICAL ROOMS, ELECTRICAL ROOMS, SERVICE AREAS, ETC.
9. SHALL - ACTION THAT IS REQUIRED WITHOUT OPTION OR QUALIFICATION.
10. REMOVE - DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF SITE UNLESS INDICATED TO BE REMOVED AND SALVAGED OR REMOVED AND RE-INSTALLED.
11. REMOVE AND SALVAGE - CAREFULLY DETACH FROM EXISTING CONSTRUCTION IN A MANNER TO PREVENT DAMAGE AND DELIVER TO OWNER READY FOR RE-USE.
12. REMOVE AND REINSTALL - DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE FOR RE-USE, RE-INSTALL AND RECONNECT WHERE INDICATED SUCH THAT THE RE-INSTALLED ITEM IS FULLY OPERATIONAL.
13. EXISTING TO REMAIN - EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT TO BE PERMANENTLY REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE REMOVED, REMOVED AND SALVAGED OR REMOVED AND RE-INSTALLED.

SUBMITTALS

A. REVIEW OF THE SHOP DRAWINGS IS RENDERED AS A SERVICE ONLY AND SHALL NOT BE CONSIDERED AS A GUARANTEE OF MEASUREMENTS OR OF BUILDING CONDITIONS; NOR SHALL IT BE CONSTRUED AS RELIEVING THE CONTRACTOR'S OF BASIC RESPONSIBILITIES UNDER HIS CONTRACT. ARCHITECT/ENGINEER WILL REVIEW SHOP DRAWINGS ONLY FOR CONFORMANCE WITH DESIGN CONCEPT OF THE PROJECT. REVIEW BY THE ARCHITECT/ENGINEER SHALL NOT BE CONSTRUED:

1. AS PERMITTING ANY DEPARTURE FROM THE CONTRACT REQUIREMENTS.
2. AS RELIEVING THE CONTRACTOR OF THE RESPONSIBILITY FOR ANY ERROR IN DETAILS, DIMENSIONS OR OTHERWISE THAT MAY EXIST.
3. AS APPROVED DEPARTURES FROM ADDITIONAL DETAILS OR INSTRUCTIONS PREVIOUSLY FURNISHED BY THE ARCHITECT/ENGINEER.

B. SHOP DRAWINGS:

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND DESCRIPTIVE LITERATURE OF EQUIPMENT TO BE FURNISHED UNDER THIS CONTRACT. DRAWINGS SHALL STATE CAPACITIES, SIZES, ETC., OF ALL EQUIPMENT AND SHALL BE CERTIFIED. SEE GENERAL CONDITIONS AND SUPPLEMENTARY CONDITIONS FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE SUBMITTALS FOR LIGHTING FIXTURES, LIGHTING CONTROL DEVICES, CONTACTORS, WIRING DEVICES, DISCONNECT SWITCHES, POWER SYSTEM STUDY.

C. THE CONTRACTOR SHALL PERFORM NO PORTION OF THE WORK REQUIRING SUBMITTAL AND REVIEW OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNTIL THE RESPECTIVE SUBMITTALS HAS BEEN APPROVED BY THE ENGINEER.

ELECTRICAL COORDINATION DRAWINGS

A. PREPARE ELECTRICAL COORDINATION DRAWINGS AS REQUIRED BY THE WORK AND AS DIRECTED BY THE GENERAL CONTRACTOR.

B. MEET WITH REPRESENTATIVES OF THE OTHER DISCIPLINES/TRADES TO COORDINATE THE ELECTRICAL WORK WITH THE WORK OF EACH DISCIPLINE AND TO OBTAIN INFORMATION REGARDING THEIR WORK THAT IS TO BE INDICATED ON THE COORDINATION DRAWINGS.

POWER SYSTEM STUDIES - GENERAL

A. EC SHALL PROVIDE COMPUTER-BASED, POWER SYSTEM STUDIES THAT INCLUDES:

1. A SHORT CIRCUIT STUDY TO DETERMINE THE MINIMUM INTERRUPTING CAPACITY OF CIRCUIT PROTECTIVE DEVICES;
2. AN ARC-FLASH STUDY TO DETERMINE THE ARC-FLASH HAZARD DISTANCE AND THE INCIDENT ENERGY TO WHICH PERSONNEL COULD BE EXPOSED DURING WORK ON OR NEAR ELECTRICAL EQUIPMENT.

B. STUDIES SHALL BE PERFORMED UTILIZING COMPUTER PROGRAMS THAT ARE DISTRIBUTED NATIONALLY AND ARE IN WIDE USE. SOFTWARE ALGORITHMS SHALL COMPLY WITH REQUIREMENTS OF STANDARDS AND GUIDES SPECIFIED IN THIS SECTION. MANUAL CALCULATIONS ARE UNACCEPTABLE.

C. SOFTWARE DEVELOPERS: SUBJECT TO COMPLIANCE WITH SPECIFIED REQUIREMENTS, PERFORM STUDIES UTILIZING SOFTWARE PRODUCTS BY ONE OF THE FOLLOWING:

1. EASY POWER
2. POWER ANALYTICS CORPORATION
3. SKM SYSTEMS ANALYSIS

D. ALL STUDIES SHALL BE BASED ON THE DEVICE CHARACTERISTICS OF ACTUAL EXISTING COMPONENTS AND THE NEW COMPONENTS BEING INSTALLED.

E. PROVIDE ALL FIELD LABOR AS REQUIRED TO OBTAIN ALL DATA NECESSARY TO CONDUCT THE STUDIES SPECIFIED HEREIN.

F. SUBMIT STUDIES FOR REVIEW BEFORE SUBMITTING THE SYSTEM OVERCURRENT PROTECTIVE DEVICE AND POWER DISTRIBUTION EQUIPMENT SUBMITTALS. SUBMIT STUDY REPORT FOR REVIEW PRIOR TO RECEIVING FINAL APPROVAL OF THE OVERCURRENT PROTECTIVE DEVICE AND DISTRIBUTION EQUIPMENT SUBMITTALS.

G. WHERE FORMAL COMPLETION OF STUDIES WILL CAUSE A DELAY IN THE ORDERING AND MANUFACTURING OF OVERCURRENT PROTECTIVE DEVICES AND POWER DISTRIBUTION EQUIPMENT, OBTAIN APPROVAL FROM ENGINEER FOR PRELIMINARY SUBMITTAL OF SUFFICIENT STUDY DATA TO ENSURE THAT THE SELECTION OF DEVICES AND ASSOCIATED CHARACTERISTICS IS SATISFACTORY AND IN COMPLIANCE WITH THE RESULTS OF THE STUDIES BEING PERFORMED.

H. POWER SYSTEMS STUDY SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR PROVIDING THE STUDY.

SHORT CIRCUIT STUDY

A. EC SHALL PROVIDE A COMPUTER-BASED, SHORT CIRCUIT STUDY TO DETERMINE THE MINIMUM INTERRUPTING CAPACITY OF CIRCUIT PROTECTIVE DEVICES.

B. FOR NEW EQUIPMENT, USE CHARACTERISTICS SUBMITTED UNDER THE PROVISIONS OF ACTION SUBMITTALS AND INFORMATION SUBMITTALS FOR THIS PROJECT.

C. FOR EXISTING RELOCATED EQUIPMENT AND EXISTING EQUIPMENT THAT IS EXISTING TO REMAIN, OBTAIN REQUIRED ELECTRICAL DISTRIBUTION SYSTEM DATA BY FIELD INVESTIGATION AND SURVEYS, CONDUCTED BY QUALIFIED TECHNICIANS AND ENGINEERS. THE QUALIFICATIONS OF TECHNICIANS AND ENGINEERS SHALL BE QUALIFIED AS DEFINED BY NFPA 70E.

D. GATHER AND TABULATE ALL REQUIRED DATA TO SUPPORT THE SHORT-CIRCUIT STUDY. COMPLY WITH RECOMMENDATIONS IN IEEE 551 AS TO THE AMOUNT OF DETAIL THAT IS REQUIRED TO BE ACQUIRED IN THE FIELD.

E. BEGIN SHORT-CIRCUIT CURRENT ANALYSIS AT THE SERVICE, EXTENDING DOWN TO THE SYSTEM OVERCURRENT PROTECTIVE DEVICES AS FOLLOWS:

1. TO NORMAL SYSTEM LOW-VOLTAGE LOAD BUSES WHERE FAULT CURRENT IS 10 KA OR LESS.

ARC FLASH HAZARD STUDY

A. EC SHALL PROVIDE A COMPUTER-BASED, ARC-FLASH HAZARD STUDY TO DETERMINE THE ARC-FLASH HAZARD DISTANCE AND THE INCIDENT ENERGY TO WHICH PERSONNEL COULD BE EXPOSED DURING WORK ON OR NEAR EXISTING AND NEW ELECTRICAL EQUIPMENT.

B. ELECTRICAL SURVEY DATA: GATHER AND TABULATE ALL REQUIRED INPUT DATA TO SUPPORT STUDY. COMPLY WITH RECOMMENDATIONS IN IEEE 1584 AND NFPA 70E AS TO THE AMOUNT OF DETAIL THAT IS REQUIRED TO BE ACQUIRED IN THE FIELD.

C. FOR NEW EQUIPMENT, USE CHARACTERISTICS SUBMITTED UNDER THE PROVISIONS OF ACTION SUBMITTALS AND INFORMATION SUBMITTALS FOR THIS PROJECT.

D. FOR EXISTING EQUIPMENT, WHETHER OR NOT RELOCATED, OBTAIN REQUIRED ELECTRICAL DISTRIBUTION SYSTEM DATA BY FIELD INVESTIGATION AND SURVEYS, CONDUCTED BY QUALIFIED TECHNICIANS AND ENGINEERS.

E. HAZARD LABELS SHALL HAVE AN ORANGE HEADER WITH THE WORDING, "WARNING, ARC-FLASH HAZARD," AND SHALL INCLUDE THE FOLLOWING INFORMATION TAKEN DIRECTLY FROM THE ARC-FLASH HAZARD ANALYSIS:

1. LOCATION DESIGNATION.
2. NOMINAL VOLTAGE.
3. FLASH PROTECTION BOUNDARY.
4. HAZARD RISK CATEGORY.
5. INCIDENT ENERGY.
6. WORKING DISTANCE.
7. ENGINEERING REPORT NUMBER, REVISION NUMBER, AND ISSUE DATE.

F. ARC FLASH HAZARD WARNING LABELS SHALL BE A 3.5-BY-5-INCH THERMAL TRANSFER LABEL OF HIGH-ADHESION POLYESTER FOR EACH WORK LOCATION INCLUDED IN THE ANALYSIS.

G. LABELS SHALL BE MACHINE PRINTED, WITH NO FIELD-APPLIED MARKINGS.

RECORD DOCUMENTS

A. DURING THE PROGRESS OF THE WORK, CONTRACTOR SHALL MAINTAIN A CURRENT (DAILY) AS-BUILT SET OF THE DRAWINGS AND SPECIFICATIONS, INDICATING THEREON ALL WORK INSTALLED AT VARIANCE WITH SUCH CONTRACT DOCUMENTS INCLUDING, WITHOUT LIMITATION, WORK COVERED BY ADDENDA, FIELD WORK ORDERS, CHANGE ORDERS, AND ENGINEERS

B. CONTRACTOR SHALL PROVIDE THE TENANT WITH THE FINAL AS-BUILT SET OF DRAWINGS AT THE COMPLETION OF THE WORK.

COORDINATION WITH LANDLORD

A. PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL COORDINATE THE WORK OF THIS CONTRACT WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.

B. CONTRACTOR SHALL MEET WITH AUTHORIZED REPRESENTATIVES OF THE LANDLORD AND EACH UTILITY TO DISCUSS LANDLORD SCOPE OF WORK, CONTRACTOR SCOPE OF WORK, POINT OF SERVICE PICK-UP, DETAILS REGARDING SYSTEM INTERFACE, STANDARDS TO BE COMPLIED WITH, ETC.

COORDINATION WITH OTHER TRADES

A. ELECTRICAL WORK SHALL BE INSTALLED SO AS TO NOT CONFLICT WITH THE WORK OF OTHER TRADES.

B. SET ALL SLEEVES AND CUT AND PATCH ALL MISCELLANEOUS HOLES NECESSARY FOR THE CONVENIENT AND PROPER INSTALLATION OF THE WORK.

C. CONFER WITH THE OTHER CONTRACTORS REGARDING THE LOCATION AND SIZE OF PIPES, EQUIPMENT, DUCTS, OPENINGS AND SPECIAL ARCHITECTURAL TREATMENTS IN ORDER THAT THERE MAY BE NO INTERFERENCES BETWEEN THE INSTALLATION OR THE PROGRESS OF THE WORK OF ANY CONTRACTOR ON THE PROJECT.

D. ALL LINE VOLTAGE WIRING AND FINAL CONNECTIONS TO COMPLETE MECHANICAL SYSTEMS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

E. PROVIDE FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT FURNISHED/PROVIDED BY OTHERS, (HVAC EQUIPMENT, PLUMBING EQUIPMENT, COMMERCIAL KITCHEN EQUIPMENT, ETC.

F. COORDINATE THE NEMA CONFIGURATION OF THE RECEPTACLE TO BE PROVIDED WITH THE NEMA PLUG CONFIGURATION OF THE CORD/PLUG ASSEMBLY FURNISHED WITH THE EQUIPMENT TO BE INSTALLED. PROVIDE RECEPTACLES HAVING A NEMA CONFIGURATION THAT MATCHES THE NEMA CONFIGURATION OF THE PLUG ON THE EQUIPMENT.

G. PROVIDE FINAL COORDINATION OF AVAILABLE POWER (VOLTAGE/PHASE) WITH OTHER TRADES PRIOR TO THEIR ORDERING OF EQUIPMENT.

H. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ELECTRICAL WORK TO BE PROVIDED ASSOCIATED WITH MECHANICAL EQUIPMENT.

I. WHERE ELECTRICAL WORK (CONDUIT BOXES, RECEPTACLES, DISCONNECT SWITCHES, ETC.) ARE SECURED DIRECTLY TO THE HOUSING OF MECHANICAL EQUIPMENT, THEY SHALL BE INSTALLED ON A PORTION OF THE EQUIPMENT HOUSING NOT REQUIRED TO BE REMOVED FOR ROUTINE MAINTENANCE. PRIOR TO INSTALLATION, COORDINATE ALL ELECTRICAL WORK AT MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.

TEMPORARY POWER

A. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY CONSTRUCTION POWER AND LIGHTING TO ALLOW ALL CONTRACTORS AND SUB-CONTRACTORS TO PERFORM THE WORK OF THEIR CONTRACTS.

B. PRIOR TO THE SUBMISSION OF A BID PROPOSAL, THE CONTRACTOR SHALL CONTACT THE GENERAL CONTRACTOR TO COORDINATE THE TYPE OF EQUIPMENT TO BE UTILIZED DURING THE WORK OF THIS CONTRACT

SEQUENCING AND SCHEDULING

A. COORDINATE ELECTRICAL EQUIPMENT INSTALLATION WITH OTHER BUILDING COMPONENTS AND THE PROJECT PHASING PLAN.

FIRE STOPPING

A. PROVIDE FIRE STOPPING FOR PENETRATIONS BY CONDUIT OR CABLES AND OTHER EQUIPMENT THROUGH FIRE-RATED VERTICAL BARRIERS (WALLS AND PARTITIONS), HORIZONTAL BARRIERS (FLOOR/CEILING ASSEMBLIES) AND VERTICAL SHAFT WALLS AND PARTITIONS.

B. FIRESTOP SYSTEM INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF ATME E 814 OR UL 1479 TESTED ASSEMBLIES THAT PROVIDE A FIRE RATING EQUAL TO OR GREATER THAN THAT OF THE CONSTRUCTION BEING PENETRATED.

SEISMIC RESTRAINT

A. PROVIDE SEISMIC RESTRAINT FOR ELECTRICAL WORK AND SYSTEMS AND EQUIPMENT IN STRICT ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

B. SUBMIT ALL REQUIRED DETAILS TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL.

CUTTING & PATCHING

A. PRIOR TO CORE DRILLING OR SAW CUTTING OPERATIONS, CONTRACTOR SHALL X-RAY OR GROUND PENETRATING RADAR (GPR) THE EXISTING SLAB TO DETERMINE THE LOCATION OF ANY EXISTING UTILITIES, STRUCTURAL MEMBERS. ETC. COORDINATE ALL SCANNING, CUTTING AND CORE DRILLING OPERATIONS WITH GC AND LANDLORD PRIOR TO COMMENCEMENT OF WORK.

B. CORE-DRILL OR SAW-CUT EXISTING FLOORS, WALLS, ROOF, ETC., AS REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL WORK. EXISTING UTILITIES AND STRUCTURAL COMPONENTS, INCLUDING BUT NOT NECESSARILY LIMITED TO, COLUMNS, BEAMS, GIRDERS, PLATES OR JOISTS SHALL NOT BE CUT.

C. PATCH SURROUNDING AREAS FLUSH WITH ADJACENT SURFACES AND PREPARE TO RECEIVE SPECIFIED FINISHES.

D. PATCH AND REPAIR ROOF TO MATCH EXISTING ROOFING SYSTEM. ALL ROOF WORK SHALL BE PERFORMED TO MEET THE WARRANTY REQUIREMENTS OF THE EXISTING ROOFING SYSTEM.

GROUNDING

A. PROVIDE ELECTRICAL SYSTEM AND EQUIPMENT GROUNDING IN ACCORDANCE WITH APPLICABLE N.E.C. REQUIREMENTS.

B. THE METALLIC CONDUIT SYSTEM SHALL BE GROUNDED AND BONDED TO FORM AN EQUIPMENT GROUNDING CONDUCTOR.

C. PROVIDE AN INSULATED EQUIPMENT GROUND CONDUCTOR WITHIN ALL FEEDERS AND BRANCH CIRCUITS. THIS EQUIPMENT GROUND CONDUCTOR SHALL BE IN ADDITION TO THE EQUIPMENT GROUND CONDUCTOR FORMED BY THE METALLIC CONDUIT SYSTEM.

D. PROVIDE A #6 AWG GREEN INSULATED GROUNDING CONDUCTOR FROM THE GROUND BAR AT TELEPHONE TERMINAL BOARD TO THE ELECTRICAL SERVICE GROUND.

E. PROVIDE A COPPER GROUNDING BAR AT THE TELEPHONE TERMINAL BACKBOARD. GROUNDING BAR SHALL BE ¼ INCH X 4 INCHES X 12 INCHES, PRE-DRILLED FOR CONDUCTOR TERMINATIONS, WITH NON-METALLIC STAND-OFF BRACKETS WITH INSULATORS. CHATSWORTH PRODUCTS 10622-012 OR APPROVED EQUAL.

EQUIPMENT IDENTIFICATION

A. PROVIDE EQUIPMENT LABELS ON DISCONNECT SWITCHES, CONTACTORS, CONTROLS, ETC. EQUIPMENT LABELS SHALL BE ENGRAVED PHENOLIC RESIN NAMEPLATES ATTACHED TO ENCLOSURE WITH MECHANICAL FASTENERS. SELF-ADHESIVE NAMEPLATES ARE NOT ACCEPTABLE. LETTERING SHALL BE 1/2" HIGH, BLACK TEXT ON WHITE BACKGROUND.

B. ENGRAVED NAMEPLATES ATTACHED TO COMPONENTS SHALL IDENTIFY THE EQUIPMENT DESIGNATION, NAME OF THE "UPSTREAM" POWER SOURCE (AS APPLICABLE), VOLTAGE AND PHASE.

C. THE COVERS OF ALL OUTLET AND JUNCTION BOXES INSTALLED ABOVE CEILINGS AND INSTALLED EXPOSED IN UNFINISHED SPACES SHALL BE LABELED TO IDENTIFY THE SERVING PANEL, VOLTAGE, PHASE AND CIRCUIT NUMBERS CONTAINED WITHIN THE BOX. LABEL SHALL BE LEGIBLY HANDWRITTEN WITH BLACK, FELT TIP PERMANENT MARKER.

D. THE COVER PLATES OF ALL WIRING DEVICES SHALL BE LABELED TO IDENTIFY THE SERVING PANEL AND THE CIRCUITS SERVING THE DEVICE. LABELS SHALL BE MACHINE PRINTED, BLACK TEXT ON A CLEAR, SELF ADHESIVE LABEL.

CONDUIT AND FITTINGS

A. ALL INTERIOR AND EXTERIOR CONDUITS SHALL BE INSTALLED AND SUPPORTED IN ACCORDANCE WITH N.E.C. REQUIREMENTS.

B. MINIMUM CONDUIT SIZE SHALL BE ¾" TRADE SIZE. SWITCH LEGS SHALL BE ½" TRADE SIZE.

C. WITHIN INTERIOR FINISHED SPACES, ALL CONDUIT SHALL BE INSTALLED CONCEALED WITHIN NEW AND EXISTING WALLS AND ABOVE NEW AND EXISTING CEILINGS.

D. CONDUIT INSTALLED WITHIN THE INTERIOR OF THE BUILDING SHALL BE GALVANIZED ELECTRICAL METALLIC TUBING (EMT). CONDUIT FITTINGS FOR INDOOR EMT CONDUITS SHALL BE CAST METAL, COMPRESSION TYPE.

E. EMT SHALL BE USED FOR INTERIOR FEEDERS AND BRANCH CIRCUITS INSTALLED EXPOSED IN UNFINISHED SPACES, CONCEALED ABOVE NEW OR EXISTING CEILINGS OR CONCEALED WITHIN EXISTING AND NEW INTERIOR PARTITIONS.

F. CONDUITS INSTALLED EXPOSED ON THE EXTERIOR OF THE BUILDING SHALL BE GALVANIZED RIGID STEEL. FITTINGS SHALL BE THREADED TYPE.

G. CONDUITS INSTALLED UNDER SLAB ON GRADE CONSTRUCTION SHALL BE RIGID NON-METALLIC (RNC), SCHEDULE 40 PVC. RNC COMPLYING WITH NEMA TC 2 AND UL 651 UNLESS OTHERWISE INDICATED. FITTINGS FOR RIGID NON-METALLIC CONDUIT SHALL COMPLY WITH NEMA TC 3; MATCH TO CONDUIT TYPE AND MATERIAL.

H. PROVIDE CONDUIT EXPANSION FITTINGS IN ALL CONDUIT RUNS THAT EXTEND ACROSS BUILDING EXPANSION JOINTS AND WHERE MOVEMENT MAY BE ENCOUNTERED.

I. CONDUIT SHALL BE SUPPORTED FROM STRUCTURE ONLY.

J. PVC CONDUIT SHALL ONLY BE USED BELOW GRADE.

K. PROVIDE FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO VIBRATING EQUIPMENT WITHIN INTERIOR DRY LOCATIONS. MAXIMUM CONDUIT LENGTH SHALL BE 36 INCHES.

L. PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR CONNECTIONS TO VIBRATING EQUIPMENT IN WET OR OUTDOOR LOCATIONS. MAXIMUM CONDUIT LENGTH SHALL BE 36 INCHES.

M. PROVIDE FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO RECESSED LIGHT FIXTURES (FIXTURE WHIPS). MAXIMUM CONDUIT LENGTH SHALL BE 72 INCHES.

N. PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR FINAL ELECTRICAL CONNECTIONS TO FOOD SERVICE EQUIPMENT.

O. CONDUITS THAT EXTEND UP TO THE ROOF LEVEL TO SERVE ROOF MOUNTED MECHANICAL EQUIPMENT INSTALLED ON A CURB SHALL BE ROUTED WITHIN THE EQUIPMENT CURB. COORDINATE ELECTRICAL WORK WITH MECHANICAL EQUIPMENT INSTALLER.

P. PROVIDE CONDUIT SEALING FITTINGS IN ALL CONDUITS THAT EXTEND FROM NON-REFRIGERATED SPACES TO REFRIGERATED SPACES PER N.E.C. 300.7(A). PROVIDE EXPANSION JOINTS FOR CONDUIT AS REQUIRED TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION.

Q. ALL CONDUITS INSTALLED IN ASSOCIATION WITH THE WALK-IN COOLER FREEZER SHALL BE INSTALLED IN ACCORDANCE WITH THE WALK-IN MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS. COORDINATE ALL CONDUIT INSTALLATION WITH WALK-IN EQUIPMENT INSTALLER.

R. ACCEPTABLE MANUFACTURERS FOR GALVANIZED RIGID CONDUIT, EMT, FLEXIBLE METAL CONDUITS AND LIQUID-TIGH

TYPE MC CABLE

A. A.TYPE MC CABLE: 600V, UNJACKETED: ANSI E119 AND E814, UL STANDARDS 44 OR 83 (AS APPLICABLE), AND 1569, NFPA 70 ARTICLE 330; ALUMINUM OR GALVANIZED STEEL INTERLOCKED ARMOR; THHM- OR XHHW-INSULATED CONDUCTORS; COLOR CODE: ICEA METHOD 1, WITH GREEN INSULATED GROUNDING CONDUCTOR.

B. USES PERMITTED

B.1. IN LIEU OF FLEXIBLE CONDUIT AND WIRING FROM LIGHT FIXTURES IN ACCESSIBLE CEILINGS TO JUNCTION BOXES (ATTACHED TO BUILDING STRUCTURE) ABOVE THE CEILING. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5' FOOT RADIUS OF ITS INSTALLED LOCATION, BUT NOT EXCEEDING 6' FEET IN UNSUPPORTED LENGTHS.

B.2. FOR VERTICAL DROPS IN STUD WALLS.

C. USES NOT PERMITTED:

C.1. HOMERUNS TO PANELBOARDS.

C.2. WHERE EXPOSED TO VIEW.

C.3. WHERE EXPOSED TO DAMAGE.

C.4. HAZARDOUS LOCATIONS.

C.5. WET LOCATIONS

C.6. INSTALLED HORIZONTALLY WITHIN STUD WALL

C.7. WHEN RESTRICTED OTHERWISE ABOVE, AND WHEN SPECIFICALLY DISALLOWED BY THE LOCAL AHJ, OWNER OR BOTH

D. PRIOR TO THE SUBMISSION OF A BID PROPOSAL, E.C. SHALL VERIFY THE PERMISSIBLE USE OF M.C. CABLE WITH THE A.H.J.

CONDUCTOR COLOR CODING

A. PROVIDE COLOR CODING SYSTEM AS LISTED BELOW FOR ALL FEEDERS AND BRANCH CIRCUITS AND USED AS A BASIS FOR BALANCING LOAD ON PANELS, AND FOR PHASE IDENTIFICATION.

B. COLOR CODING FOR CONDUCTOR #12 AWG THROUGH #10 AWG SHALL CONSIST OF COLOR CODED THERMOPLASTIC INSULATION OF THE COLORS SPECIFIED HEREIN.

C. COLOR CODING FOR CONDUCTORS #8 AWG AND LARGER SHALL BE FIELD APPLIED SELF ADHESIVE TAPE OF THE COLOR SPECIFIED HEREIN FOR THE PARTICULAR PHASE.

D. 120/208V: PHASE A--BLACK, PHASE B--RED, PHASE C--BLUE, NEUTRAL--WHITE, EQUIPMENT GROUND--GREEN, ISOLATED GROUND--GREEN WITH DISTINCTIVE WHITE OR YELLOW MARKINGS.

BOXES AND FITTINGS

A. ALL OUTLET BOXES SHALL BE UL LISTED AND LABELED FOR USE IN THE SPACE THEY OCCUPY AND THE PURPOSE THEY SERVE.

B. SHEET METAL OUTLET AND DEVICE BOXES FOR DRY, INTERIOR APPLICATIONS: COMPLY WITH NEMA OS 1 AND UL 514A.

C. CAST-METAL OUTLET AND DEVICE BOXES FOR EXTERIOR APPLICATIONS: COMPLY WITH NEMA FB 1, FERROUS ALLOY, TYPE FS OR FD, WITH GASKETED COVER.

D. OUTLET BOXES INSTALLED WITHIN FIRE RATED ASSEMBLIES SHALL HAVE A FIRE RATING EQUAL TO OR GREATER THAN THE RATING OF THE WALL IN WHICH IT IS INSTALLED.

E. OUTLET BOXES SHALL BE 4 INCHES SQUARE BY 2 1/8 INCHES DEEP , EXCEPT FOR 2" PARTITIONS SHALL BE AT LEAST 1-1/2" DEEP.

F. OUTLET BOXES FOR VOICE AND DATA DEVICES SHALL BE 4 11/16 INCHES SQUARE BY 2 1/8 INCHES DEEP.

G. ALL PULLBOXES SHALL BE CONSTRUCTED OF GALVANIZED STEEL, OF METAL GAUGE AND PHYSICAL SIZE AS REQUIRED BY THE N.E.C. FOR THE NUMBER AND SIZE OF CONDUITS AND CONDUCTORS ASSOCIATED WITH THE PULLBOX.

H. FIXTURE OUTLET BOXES IN/OR ON CEILINGS SHALL NOT BE LESS THAN 1-1/2" DEEP OR LESS THAN 4" SQUARE. ALL OUTLET BOXES INTENDED TO SUPPORT FIXTURES SHALL BE EQUIPPED WITH 3/8" FIXTURE STUDS FASTENED THROUGH THE BOTTOM OF THE BOX WITH FOUR BOLTS.

I. PULLBOXES AND JUNCTION BOXES THAT ARE CUSTOM FABRICATED FOR THE APPLICATION SHALL BE FABRICATED BY A SHOP/FACILITY THAT IS CERTIFIED BY A NRTL FOR THE FABRICATION OF SUCH ENCLOSURES.

J. NEW OUTLET BOXES INSTALLED WITHIN NEW OR EXISTING STUD WALL CONSTRUCTION SHALL BE MOUNTED TO A STUD OR MOUNTED IN A BRACKET THAT SPANS STUD-TO-STUD, CADDY TSGB BRACKET OR APPROVED EQUAL. THE USE OF "OLD WORK" TYPE BOXES THAT. SECURE ONLY TO THE DRYWALL ARE NOT ACCEPTABLE.

K. ACCEPTABLE MANUFACTURERS FOR BOXES: APPLETON, STEEL CITY, RACO.

PANELBOARDS

A. CIRCUIT BREAKERS SHALL BE MOLDED CASE, BOLT-ON TYPE SUITABLE FOR VOLTAGE AND AMPERE RATINGS INDICATED ON DRAWINGS AND IN PANEL SCHEDULES. REFER TO THE PANEL SCHEDULES ON THE DRAWINGS FOR ADDITIONAL ACCESSORIES TO BE PROVIDED AT SELECT CIRCUIT BREAKERS.

B. CIRCUIT BREAKERS SHALL HAVE A MINIMUM AMPERE INTERRUPTING CAPACITY AS DETERMINED BY THE POWER SYSTEMS STUDY.

C. WHERE THE POWER SYSTEM STUDY IDENTIFIES AVAILABLE FAULT CURRENT VALUES AT EXISTING AND EXISTING PANELS THAT ARE HIGHER THAN THE MINIMUM AIC RATINGS SPECIFIED HEREIN, PROVIDE CIRCUIT BREAKERS IN THE PANELS THAT HAVE AIC RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT AT THE PANEL AS DETERMINED BY THE POWER SYSTEM STUDY.

D. CIRCUIT BREAKERS SERVING LIGHTING CIRCUITS SHALL BE RATED FOR SWITCH DUTY.

E. CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE HACR RATED.

F. ALL LUGS SHALL BE OF THE SOLDERLESS TYPE AND RATED AT A MINIMUM OF 75°C.

G. PROVIDE NEW CIRCUIT DIRECTORIES WITHIN NEW PANELS TO REFLECT THE WORK OF THIS CONTRACT. DIRECTORY SHALL BE TYPEWRITTEN OR COMPUTER GENERATED. HANDWRITTEN CIRCUIT DIRECTORIES ARE NOT ACCEPTABLE.

H. UTILIZE FINAL, OWNER ASSIGNED ROOM NAMES AND NUMBERS TO IDENTIFY SPACES WITHIN THE CIRCUIT DIRECTORIES. COMPLY WITH N.E.C. 408.4 WHEN IDENTIFYING CIRCUITS IN CIRCUIT DIRECTORIES.

I. PANEL CIRCUITS SHALL BE CONFIGURED SUCH THAT THE LOAD IS DISTRIBUTED EVENLY ACROSS ALL THREE PHASES TO WITHIN 10%.

J. ALL NEW PANELBOARDS SHALL BE LABELED TO IDENTIFY THE AMOUNT OF FAULT CURRENT AVAILABLE AT THE PANEL AS DETERMINED BY THE POWER SYSTEM STUDY TO BE PERFORMED. LABEL SHALL BE MACHINE PRINTED, BLACK TEXT ON CLEAR, SELF ADHESIVE TAPE. INSTALL LABEL ADJACENT TO PANELBOARDS ENGRAVED NAMEPLATE.

K. ALL NEW PANELBOARDS SHALL BE LABELED TO IDENTIFY THE ARC FLASH HAZARD CHARACTERISTICS AT THE PANEL AS DETERMINED BY THE POWER SYSTEM STUDY TO BE PERFORMED.

L. ALL "SPARE" CIRCUIT BREAKERS SHALL BE SET TO THE "OFF" POSITION.

M. PROVIDE HANDLE TIES ON ALL MULTI-WIRE BRANCH CIRCUITS IN ACCORDANCE WITH N.E.C. 210.4(B)

N. WHEN NEW CIRCUIT BREAKERS ARE ADDED TO AN EXISTING PANEL, THE NEW CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURE AS THE EXISTING PANEL, SHALL BE OF A 'LETTER TYPE' COMPATIBLE WITH THE EXISTING PANEL SUCH THAT THE UL LISTING OF THE EXISTING PANEL IS MAINTAINED AND SHALL HAVE AN AIC RATING EQUAL TO OR GREATER THAN THE AIC RATING OF THE EXISTING OVERCURRENT PROTECTIVE DEVICES WITHIN THE EXISTING PANEL.

SWITCHES

A. TOGGLE SWITCHES SHALL BE SINGLE POLE, 3-WAY OR 4-WAY AS NOTED ON THE DRAWINGS, 20 AMPERES, 120/277 VOLT AC TYPE, SPECIFICATION GRADE WITH SCREW TERMINALS. HUBBELL 1221-X, 1223-X OR 1224-X OR APPROVED EQUIVALENT BY ONE OF THE ADDITIONAL MANUFACTURERS SPECIFIED HEREIN.

B. TOGGLE SWITCHES SHALL BE MOUNTED AT DOORS, INSTALLED ADJACENT TO THE TRIM ON THE STRIKING SIDE OF THE DOOR, REGARDLESS OF THE LOCATION INDICATED ON THE DRAWINGS. VERIFY ALL DOOR SWINGS PRIOR TO INSTALLATION OF OUTLET BOXES FOR SWITCHES.

C. DEVICE COLOR SHALL BE AS SELECTED BY THE OWNER/ARCHITECT.

D. PROVIDE A NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS

E. SWITCHES SHALL BE INSTALLED SURFACE MOUNTED IN UNFINISHED AREA. FLUSH MOUNTED IN FINISHED SPACES.

F. ADDITIONAL ACCEPTABLE MANUFACTURERS FOR SWITCHES: LEGRAND, LEVITON.

RECEPTACLES

A. RECEPTACLES SHALL BE 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE, NEMA 5-20R WITH SCREW TERMINALS. HUBBELL 5362-W OR APPROVED EQUAL BY ONE OF THE ADDITIONAL MANUFACTURERS SPECIFIED HEREIN.

B. GFCI RECEPTACLES SHALL BE 20 AMP, 125 VOLT, 2-POLE, 3-WIRE, GROUNDING TYPE, NEMA 5-20R FEED THROUGH TYPE CAPABLE OF PROTECTING DOWNSTREAM RECEPTACLES ON A SINGLE CIRCUIT, SOLID STATE GROUND FAULT SENSING AND SIGNALING, 5 MILLIAMP TRIP LEVEL, NEMA 5-20R WITH SCREW TERMINALS. HUBBELL GF5362-X OR APPROVED EQUAL BY ONE OF THE ADDITIONAL MANUFACTURERS SPECIFIED HEREIN.

C. PROVIDE SPECIAL PURPOSE RECEPTACLES HAVING NEMA CONFIGURATIONS THAT MATE AND MATCH THE NEMA PLUG CONFIGURATION PROVIDED WITH THE EQUIPMENT TO BE CONNECTED.

D. COVER PLATES FOR EXTERIOR RECEPTACLES SHALL BE RATED FOR "WEATHERPROOF WHILE IN USE".

E. DEVICE COLOR SHALL BE AS SELECTED BY THE OWNER/ARCHITECT.

F. QUAD RECEPTACLES SHALL CONSIST OF (2) DUPLE3X RECEPTACLES INSTALLED IN A SINGLE BOX UNDER A SINGLE COVER PLATE.

G. RECEPTACLES SHALL BE INSTALLED SURFACE MOUNTED IN UNFINISHED SPACES, FLUSH MOUNTED IN FINISHED SPACES.

H. ADDITIONAL ACCEPTABLE MANUFACTURERS FOR SWITCHES AND RECEPTACLES: LEGRAND, LEVITON.

GFCI PROTECTION:

A. ALL KITCHEN SINGLE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPS OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPS OR LESS SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL IN ACCORDANCE WITH N.E.C. 210.8, (B), (1) - (10), OR THE EQUIVALENT REQUIREMENT WITHIN THE APPLICABLE ELECTRICAL CODE.

B. THE "GFCI" NOTATION AT A DEVICE OR CIRCUIT BREAKER INDICATES THAT GFCI PROTECTION SHALL BE PROVIDED FOR THE CIRCUIT OR CIRCUITS INDICATED. GFCI PROTECTION SHALL BE PROVIDED BY ONE OF THE FOLLOWING MEANS:

- INTEGRAL GFCI PROTECTION WITHIN THE DEVICE (NEMA 5-20R RECEPTACLES), WHEN THE DEVICE IS ABLE TO BE INSTALLED IN A READILY ACCESSIBLE LOCATION AS DEFINED BY THE APPLICABLE ELECTRICAL CODE.
- GFCI CIRCUIT BREAKER INSTALLED WITHIN THE PANEL FOR SERVICE TO THE CIRCUIT OR CIRCUITS.
- GFCI CIRCUIT BREAKER INSTALLED WITHIN AN INDIVIDUAL ENCLOSURE EXTERNAL TO THE PANEL FOR SERVICE TO THE CIRCUIT.
- DEAD-FRONT GFCI DEVICE INSTALLED IN A READILY ACCESSIBLE LOCATION AS DEFINED BY THE N.E.C. (APPLICABLE TO 20 AMP, 120 VOLT CIRCUITS).
- AN INDIVIDUALLY MOUNTED EXTERNAL SPECIAL PURPOSE GROUND FAULT CIRCUIT INTERRUPTER (SPGFCI) DEVICE SIMILAR TO "SHOCK BLOCK" PRODUCTS AS MANUFACTURED BY LITTLEFUSE, OR APPROVED EQUAL.
- DEAD FRONT DEVICES SHALL BE BE LABELED TO IDENTIFY THE CIRCUIT AND THE LOAD SERVED BY THE DEVICE.

C. ALL GFCI RECEPTACLES SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR.

COVER PLATES FOR TOGGLE SWITCHES AND RECEPTACLES

A. COVER PLATES WITHIN NON-FOOD SERVICE AREAS SHALL BE NYLON, OF CONFIGURATION TO MATCH THE WIRING DEVICE.

B. COVER PLATES WITHIN THE FOOD SERVICE AREA SHALL BE STAINLESS STEEL WITH STAINLESS STEEL HARDWARE, UNLESS OTHERWISE NOTED.

C. CONFIGURATION AND COLOR OF COVER PLATE SHALL MATCH THAT OF THE WIRING DEVICE THAT THE PLATE WILL BE INSTALLED ON.

D. COVER PLATE COLOR SHALL BE AS SELECTED BY THE OWNER/ARCHITECT.

E. ADDITIONAL ACCEPTABLE MANUFACTURERS FOR COVER PLATES: LEGRAND, LEVITON.

MOUNTING HEIGHTS FOR ELECTRICAL DEVICES AND EQUIPMENT

A. DEVICES AND EQUIPMENT SHALL BE INSTALLED AT THE MOUNTING HEIGHTS NOTED BELOW UNLESS NOTED OTHERWISE ON THE DRAWINGS OR REQUIRED BY APPLICABLE CODES AND STANDARDS:

1. TOGGLE SWITCHES, WALL SWITCH OCCUPANCY SENSORS, VACANCY SENSORS AND DIMMERS FOR LIGHTING CONTROL - TOP OF DEVICE 48" AFF
2. CONVENIENCE RECEPTACLES -TOP OF DEVICE 18" AFF
3. CONVENIENCE RECEPTACLES AT COUNTERTOPS - BOTTOM OF DEVICE 44" AFF OR AS NOTED ON THE DRAWINGS
4. RECEPTACLES AT FOOD SERVICE EQUIPMENT - AS INDICATED ON THE FINAL, APPROVED FOOD SERVICE SHOP DRAWINGS.
5. TELEPHONE AND DATA OUTLETS - TOP OF DEVICE 18" AFF, 44" AFF WHEN INSTALLED AT COUNTER TOPS.
6. DISCONNECT SWITCHES - TOP OF ENCLOSURE 66" AFF
7. PANELBOARDS - TOP OF ENCLOSURE 72" AFF

DISCONNECT SWITCHES

A. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, UL LISTED AND LABELED, EQUIPPED WITH A LUG FOR TERMINATION OF THE EQUIPMENT GROUNDING CONDUCTOR.

B. DISCONNECT SWITCHES SHALL BE LOCKABLE WITH NEMA 1 ENCLOSURES FOR DRY, INDOOR APPLICATIONS; NEMA 3R ENCLOSURES FOR OUTDOOR OR WET LOCATION APPLICATIONS.

C. DISCONNECT SWITCHES INSTALLED EXPOSED IN FOOD SERVICE AREAS SHALL BE NEMA 4X STAINLESS STEEL, LOCKABLE.

D. TOGGLE DISCONNECTS SHALL BE 20A OR 30A AS REQUIRED. SINGLE POLE, 2-POLE OR 3-POLE AS REQUIRED, SINGLE THROW, MOTOR RATED SWITCH WITHOUT OVERLOAD PROTECTION. NEMA 1, 3R OR 4X STAINLESS STEEL ENCLOSURE AS REQUIRED BY APPLICATION, PADLOCK ATTACHMENT

E. ALL DISCONNECT SWITCHES SHALL BE EQUIPPED WITH AN ENGRAVED NAMEPLATE TO IDENTIFY THE SERVING PANEL, CIRCUIT NUMBERS AND THE LOAD SERVED BY THE SWITCH.

F. ACCEPTABLE MANUFACTURERS FOR DISCONNECT SWITCHES: SCHNEIDER, ABB, SIEMENS OR EATON.

FUSES

A. PROVIDE CARTRIDGE FUSES RATED FOR 250 VAC AND 600 VAC AND LESS FOR USE AS SPECIFIED HEREIN.

B. COORDINATE FUSE RATINGS WITH UTILIZATION EQUIPMENT NAMEPLATE LIMITATIONS OF MAXIMUM FUSE SIZE AND WITH SYSTEM SHORT-CIRCUIT CURRENT LEVELS.

C. CARTRIDGE FUSE APPLICATIONS:

1. CIRCUITS, UP TO AND INCLUDING 600 AMPS: CLASS J, BUSSMANN LPJ.
2. CONTROL POWER TRANSFORMER (CPT) CIRCUITS: CLASS CC, TIME DELAY, CONTROL TRANSFORMER DUTY.
3. BASIS OF DESIGN FOR FUSES SHALL BE BUSSMANN. ADDITIONAL ACCEPTABLE MANUFACTURERS FOR SPECIFIED FUSES SHALL BE LITTLEFUSE AND MERSEN.

LIGHTING FIXTURES

A. ALL LIGHTING FIXTURES AND LIGHT SOURCES SHALL BE FURNISHED, INSTALLED AND CONNECTED BY THE ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.

B. THIS CONTRACTOR SHALL INSTALL LIGHTING FIXTURES AND LIGHT SOURCES AS INDICATED ON THE DRAWINGS AND AS SPECIFIED BELOW. PROVIDE LIGHTING FIXTURES COMPLETE WITH HANGERS, PLASTER FRAMES, AND ALL OTHER NECESSARY ACCESSORIES

C. LED DRIVERS SHALL BE SOLID STATE AND ACCEPT 120 THROUGH 277 VAC AT 60 HZ INPUT.

D. THE LED LIGHT SOURCE SHALL BE FULLY DIMMABLE WITH USE OF COMPATIBLE DIMMER SWITCH DESIGNATED FOR LOW VOLTAGE LOADS.

E. THE CONTRACTOR SHALL PROVIDE LIGHTING CONTROL DEVICES (DIMMERS) THAT ARE COMPATIBLE WITH LED DRIVER BEING PROVIDED WITH THE FIXTURE.

F. EXIT SIGNS INDICATED AS PROVIDING POWER TO REMOTE EXTERIOR EGRESS LIGHTS SHALL BE EQUIPPED WITH THE INCREASED BATTERY CAPACITY TO SERVE THE REMOTE EMERGENCY LIGHT. REMOTE EMERGENCY LIGHT SHALL BE A STANDARD ACCESSORY OF THE INTERIOR EXIT SIGN TO WHICH CONNECTED.

LIGHTING CONTROLS

A. TIME SWITCHES, PHOTOCELLS AND CONTACTORS SHALL BE AS DETAILED ON DRAWINGS.

B. WALL SWITCH OCCUPANCY SENSORS SHALL BE WATT STOPPER WS-250 OR APPROVED EQUAL.

C. PROVIDE A NEUTRAL CONDUCTOR TO ALL SWITCH LOCATIONS

ROUGH-IN SYSTEM FOR VOICE AND DATA

A. PROVIDE A ROUGH-IN SYSTEM AS SPECIFIED HEREIN FOR SERVICE TO THE OWNER'S VOICE AND DATA NETWORK.

B. PROVIDE A PLYWOOD BACKBOARD FOR TERMINATION OF TELEPHONE SERVICE AND DISTRIBUTION COMPONENTS. PLYWOOD BACKBOARD SHALL BE 2' X 3" X 3/4"', FIRE RATED, PAINTED WITH TWO (2) COATS OF LIGHT GRAY ENAMEL PAINT. MASK FIRE RATED LABEL TO PREVENT THE LABEL FROM BEING PAINTED OVER.

C. OUTLET BOXES FOR TELEPHONE AND DATA DEVICES SHALL CONSIST OF 4 11/16 IN SQUARE BY 2 1/8 INCH DEEP OUTLET BOXES WITH SINGLE DEVICE COVER.

D. PROVIDE CONDUIT WITH PULLSTRING FROM THE WALL MOUNTED PLYWOOD TELEPHONE TERMINAL BOARD IN THE TENANT SPACE TO THE LANDLORDS POINT OF SERVICE DELIVERY, EQUAL TO EXISTING CONDUIT. PROVIDE A NYLON BUSHING ON EACH END OF CONDUIT FOR CABLE PROTECTION.

E. ROUGH-IN FOR WIRING DROPS TO WALL MOUNTED VOICE AND DATA DEVICES SHALL BE INSTALLED WITHIN EMT CONDUIT, 1". PROVIDE A CONDUIT STUB FROM THE DEVICE BOX TO ABOVE ACCESSIBLE CEILING. PROVIDE A PLENUM RATED NYLON BUSHING ON THE END OF THE CONDUIT STUB FOR PROTECTION OF THE WIRING.

F. PRIOR TO BEGINNING WORK, THIS CONTRACTOR SHALL FULLY COORDINATE HIS CONSTRUCTION OPERATIONS AND ALL TERMINATION LOCATIONS WITH AUTHORIZED REPRESENTATIVE OF THE TELEPHONE UTILITY COMPANY AND THE OWNER'S DATA NETWORK PROVIDER BY TIMELY NOTICE OR SCHEDULING OF SERVICE EQUIPMENT DATES, SERVICE MODIFICATION DATES AND NOTIFICATION OF REQUIRED OWNER AUTHORIZATIONS INVOLVING THE UTILITY COMPANY.

DUCT MOUNTED SMOKE DETECTORS

A. PROVIDE A 120 VOLT POWER SOURCE TO ALL DUCT MOUNTED SMOKE DETECTORS INSTALLED WITHIN NEW AND EXISTING MECHANICAL EQUIPMENT

B. PROVIDE A DUCT MOUNTED SMOKE DETECTORS WITHIN NEW AND EXISTING MECHANICAL EQUIPMENT AS REQUIRED BY APPLICABLE CODES. FINAL ELECTRICAL CONNECTION AND ALL INTERLOCK WIRING BY THE ELECTRICAL CONTRACTOR.

C. PROVIDE ALL INTERLOCK WIRING IN CONDUIT BETWEEN ALL DUCT DETECTORS SUCH THAT UPON DETECTING SMOKE IN ANY ONE DETECTOR, ALL ROOF TOP UNITS SHALL BE SHUT DOWN.

D. PROVIDE TEST/RESET SWITCH AND PIEZO ALERT SOUNDER AND REMOTE ANNUNCIATOR ALARM LED MOUNTED AS DIRECTED BY LOCAL AHJ. EC TO PROVIDE ALL REQUIRED INTERLOCK WIRING BETWEEN DUCT DETECTOR AND REMOTE SWITCH.

E. REFER TO DETAILS ON MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

TESTING

A. PROVIDE ALL TESTS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

B. PROVIDE THE TESTS AS OUTLINED HEREINAFTER AND OTHER TESTS REQUIRED TO ESTABLISH THE ADEQUACY, QUALITY, SAFETY, COMPLETED STATUS AND SUITABLE OPERATION OF EACH SYSTEM.

C. PROMPTLY CORRECT ANY FAILURES, DEFICIENCIES AND/OR DEFECTS REVEALED BY THESE TESTS. AFTER CORRECTING FAILURES, DEFICIENCIES OF DEFECTS, CONDUCT NEW TESTING TO VERIFY THAT THE DEFICIENCY HAS BEEN RECTIFIED AND THE SYSTEM IS FUNCTIONING PROPERLY.

D. NEW PANELBOARDS SHALL HAVE PHASE CURRENTS BALANCED TO WITHIN +/- 10% VARIATION BETWEEN AVERAGE PHASE CURRENT AND MEASURED INDIVIDUAL PHASE.

E. AN OPERATIONAL TEST OF THE EMERGENCY LIGHTING/EXIT SIGNAGE SYSTEM SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER AND THE AUTHORITY HAVING JURISDICTION TO DEMONSTRATE PROPER OPERATION AND COMPLIANCE WITH APPLICABLE CODES AND SPECIFIED REQUIREMENTS.

OPERATION AND MAINTENANCE MANUALS

A. THIRTY (30) DAYS PRIOR TO SUBSTANTIAL COMPLETION, SUBMIT OPERATING AND MAINTENANCE MANUALS FOR EQUIPMENT TO ENGINEER FOR APPROVAL. INCLUDE ONE COPY OF EACH FINAL APPROVED SUBMITTAL FOR RECORD PURPOSES, INDICATING THE ACTUAL PRODUCT INSTALLED. INCLUDE SIGNIFICANT CHANGES IN THE PRODUCT DELIVERED TO PROJECT SITE AND CHANGES IN MANUFACTURER'S WRITTEN INSTRUCTIONS FOR INSTALLATION.

B. PROVIDE COMPREHENSIVE CONTACT LIST INCLUDING CONTRACTOR AND SUBCONTRACTOR'S NAMES, ADDRESSES, TELEPHONE AND CONTACT PERSON FOR OWNER'S USE.

WARRANTY

A. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT AND THE INSTALLATION TO BE FREE OF DEFECTS THAT MAY DEVELOP IN ANY PART OF THEIR WORK CAUSED BY FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT FAILURES, FOR A MINIMUM OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OR FOR AS LONG AS NORMAL EQUIPMENT MANUFACTURER WARRANTIES ARE IN EFFECT FROM THE DATE OF OWNER ACCEPTANCE OF THE PROJECT, WHICHEVER IS LATER.

B. DURING THE ONE (1) YEAR WARRANTY PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR DEFECTS IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED UNDER THE WORK OF THE ELECTRICAL CONTRACT.

FIRE ALARM SYSTEM

A. FIRE ALARM SYSTEM WORK IS A DELEGATED DESIGN AND IS NOT INCLUDED AS PART OF THE ELECTRICAL SCOPE OF WORK.

B. FIRE ALARM SYSTEM WORK SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AS A DELEGATED DESIGN.

C. GENERAL CONTRACTOR (GC) SHALL BE RESPONSIBLE FOR RETAINING THE SERVICES OF A FIRE ALARM SYSTEM VENDOR/DESIGN PROFESSIONAL TO PREPARE THE FIRE ALARM SYSTEM DESIGN, DETAILS, CALCULATIONS, ETC. AS REQUIRED BY ALL APPLICABLE CODES AND THE AUTHORITY HAVING JURISDICTION.

D. GC/VENDOR/DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR VERIFYING ALL APPLICABLE CODE REQUIREMENTS AND ALL LOCAL FIRE ALARM SYSTEM REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION.

E. GC/VENDOR/DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED SUBMITTAL DRAWINGS TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK.

F. GC/VENDOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR THE FIRE ALARM WORK.

HOOD FIRE SUPPRESSION SYSTEM - ELECTRICAL WORK

A. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING INSTALLED WITHIN CONDUIT BETWEEN THE HOOD FIRE SUPPRESSION SYSTEM CONTROL PANEL AND ANY COMPONENT REQUIRED TO BE AUTOMATICALLY CONTROLLED OR DISCONNECTED FROM ITS POWER SUPPLY UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM.

B. COMPONENTS TO BE CONNECTED TO THE HOOD FIRE SUPPRESSION SYSTEM CONTROL PANEL INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, THE SHUNT-TRIP CIRCUIT BREAKERS IN AN ELECTRICAL PANEL, THE COIL OF ANY SHUNT-TRIP CONTACTOR, ELECTRICALLY OPERATED GAS VALVE.

C. EC TO COORDINATE ALL ELECTRICAL WORK WITH MECHANICAL CONTRACTOR AND HOOD FIRE SUPPRESSION SYSTEM INSTALLER.

TRANSFORMERS

A. DRY-TYPE TRANSFORMERS SHALL BE OF THE ENCLOSED, VENTILATED TYPE WITH KVA AND VOLTAGE RATING AS NOTED ON DRAWINGS

B. SOUND LEVEL SHALL BE LOW.

C. INSTALLATION SHALL INCLUDE KORFUND OR EQUAL VIBRATION DAMPENING MOUNTS AND FLEXIBLE STEEL CONDUIT FOR PRIMARY AND SECONDARY.

D. MOUNT TRANSFORMER ON VIBRATION ISOLATORS. LOCATE TRANSFORMER AS NOT TO CAUSE SERVICING OR CLEARANCE DIFFICULTIES OR VIOLATIONS WITH OTHER EQUIPMENT.

E. TRANSFORMERS RATED 15 KVA AND LARGER: COMPLY WITH NEMA TP 1 ENERGY-EFFICIENCY LEVELS AS VERIFIED BY TESTING ACCORDING TO NEMA TP 2.

F. CORES: ELECTRICAL GRADE, NON-AGING SILICON STEEL WITH HIGH PERMEABILITY AND LOW HYSTERESIS LOSSES.

G. COILS: CONTINUOUS WINDINGS WITHOUT SPLICES EXCEPT FOR TAPS.

1. INTERNAL COIL CONNECTIONS: BRAZED OR PRESSURE TYPE.
2. COIL MATERIAL: ALUMINUM.

H. ENCLOSURE: VENTILATED.

1. NEMA 250, TYPE 2: CORE AND COIL SHALL BE ENCAPSULATED WITHIN RESIN COMPOUND TO SEAL OUT MOISTURE AND AIR.
2. KVA RATINGS: BASED ON CONVECTION COOLING ONLY AND NOT RELYING ON AUXILIARY FANS.

I. TRANSFORMER ENCLOSURE FINISH: COMPLY WITH NEMA 250.

1. FINISH COLOR: GRAY.

J. INSULATION CLASS, 30 KVA AND LARGER: 220 DEG C, UL-COMPONENT-RECOGNIZED INSULATION SYSTEM WITH A MAXIMUM OF 150-DEG C RISE ABOVE 40-DEG C AMBIENT TEMPERATURE.

K. TAPS: PROVIDE TWO (2) 2.5% TAPS ABOVE AND FOUR (4) 2.5% TAPS BELOW NORMAL FULL CAPACITY.

ACCEPTABLE MANUFACTURERS FOR TRANSFORMERS: SCHNEIDER, ABB, SIEMENS OR EATON.

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JERSEY MIKES - KANSAS CITY
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#	Description	Date
1	City Comments	10/30/2026

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STATE OF MISSOURI
MATTHEW R. CASE
NUMBER PE-2017000282
PROFESSIONAL ENGINEER
10/30/2026

FOR PERMIT

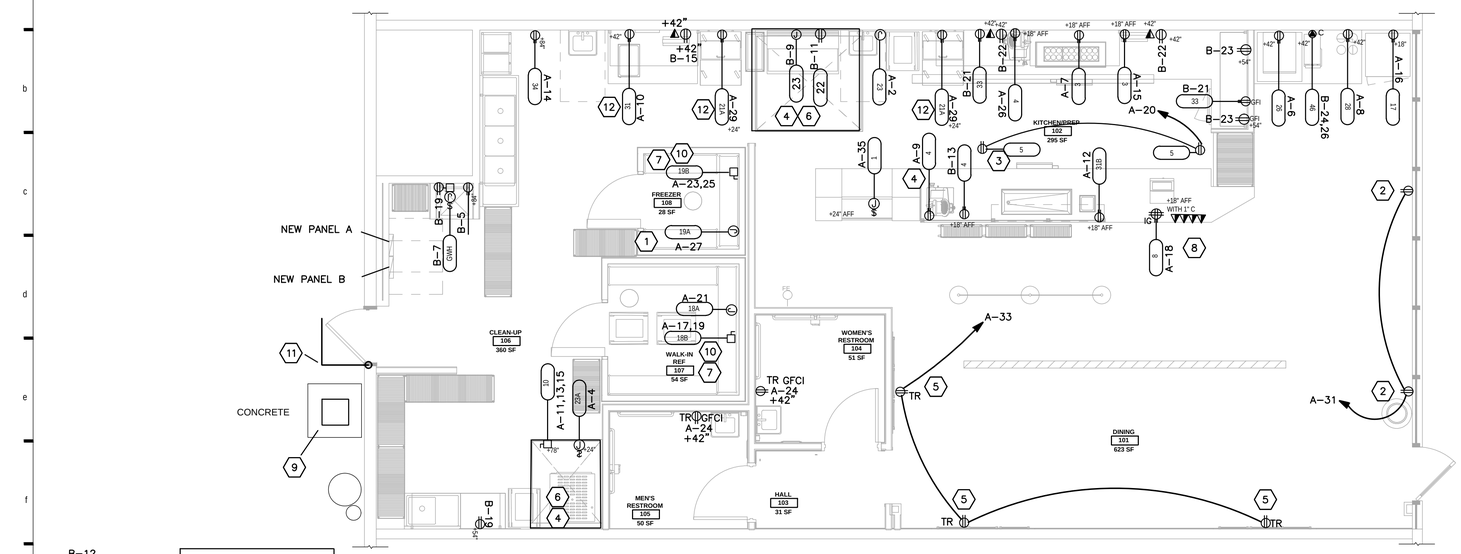
Client Approval

ELECTRICAL SPECIFICATIONS

Project #	43426-MO01
Issue Date	10/07/2026
Scale	As indicated
Drawn by	
Checked by	

E1.2

7/2/2026 12:19:39 PM JERSEY MIKES - KANSAS CITY

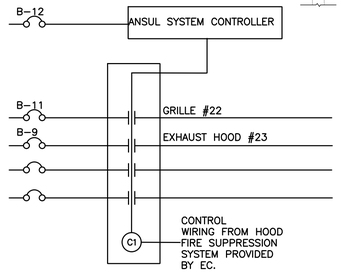


PLAN NORTH

1 ELECTRICAL POWER PLAN

1/4" = 1'-0"

0 2' 4' 8'



EC TO PROVIDE 4-POLE CONTACTOR, TO SHUTDOWN CIRCUITS NOTED UPON ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM. EC TO VERIFY CONTROL COIL VOLTAGE WITH HOOD FIRE SUPPRESSION SYSTEM SUPPLIER

2 ANSUL SYSTEM CONTACTOR

SCALE: NO SCALE

EQUIPMENT SCHEDULE

QTY	ITEM	DESCRIPTION	MANUFACTURER	MODEL	VOLT/PH	AMPS	DEVICE	WIRE SIZE	ROUGH-IN	NOTES
1	1	6' MEATCASE	HOWARD-MCRAY	SC-CDS34N-6-JM	115/1	8.7	J	(2)#12, (1)#12G, 3/4"C.	@24" A.F.F.	--
2	3	4' DROP-IN COLD UNIT	DELIFIELD	N8148-EFN	120/1	7.5		(2)#12, (1)#12G, 3/4"C.	@18" A.F.F.	5-15P
2	4	DELI SLICER	BIZERBA	GSP-H33 W/LIFT	120/1	3.5		(2)#12, (1)#12G, 3/4"C.	EOH @78" A.F.F. BOH @42" A.F.F.	--
1	5	MENUBOARD	JMFS	JMFS	120/1	4.16		(2)#12, (1)#12G, 3/4"C.	--	--
2	8	CASH REGISTER	INFOSOFT	UP700	120/1	5.0	5G	(2)#12, (1)#12G, 3/4"C.	@18" A.F.F.	
1	10	BREAD OVEN	MOFFAT	E35D6-26	208/1	40.0	60A	(2)#8, (1)#10G, 3/4"C.	@78" A.F.F.	--
1	17	SINGLE-DOOR PEPSI COOLER	PEPSI	1160	120/1	7.2		(2)#12, (1)#12G, 3/4"C.	@18" A.F.F.	--
1	18A	WALK-IN COOLER	NORLAKE	JM7S88-CR-J-36-RCP	120/1	15.0	J	(2)#12, (1)#12G, 3/4"C.	COORDINATE	1
1	18B	WALK-IN COOLER CAPSULE PAK	NORLAKE	CPB075JC-S-4-EV	208/1	5.6	30A	(2)#12, (1)#12G, 3/4"C.	COORDINATE	2,6
1	19A	STEP-IN FREEZER	NORLAKE	JMF7766-CL-J-36-RCPF	120/1	15.0	J	(2)#12, (1)#12G, 3/4"C.	COORDINATE	3
1	19B	STEP-IN FREEZER CAPSULE PAK	NORLAKE	CPF-100JC-S-4-EV	208/1	9.6	30A	(2)#12, (1)#12G, 3/4"C.	COORDINATE	4,7,8
1	21A	SANDWICH UNIT	ENTREE	JM-ST-27E-2DX	120/1	7.2		(2)#12, (1)#12G, 3/4"C.	@24" A.F.F.	5-15P
1	22	GRILLE	IMPERIAL	IR-G48T-XB-JMI	120/1	6.0		(2)#12, (1)#12G, 3/4"C.	--	--
1	23	EXHAUST HOOD/FIRE SUPPRESSION SYSTEM	CAPTIVE AIRE	ANSUL	120/1	5.0	J	(2)#12, (1)#12G, 3/4"C.	COORDINATE	--
1	23A	CONDENSATE HOOD	CAPTIVE AIRE	5424VHB	120/1	7.2		(2)#12, (1)#12G, 3/4"C.	@24" A.F.F.	5-15P
1	26	DRINK DISPENSER	PEPSI	DISPENSER: IDC255, ADAPTOR: 80002957	120/1	9.3		(2)#12, (1)#12G, 3/4"C.	@42" A.F.F.	--
1	28	ICED TEA BREWER/DISPENSER	BUNN	TB3Q	120/1	14.4		(2)#12, (1)#12G, 3/4"C.	@42" A.F.F.	--
2	31	COUNTERTOP FOOD WARMER	HOSHIZAKI	71001 MODEL 1001	120/1	5.8		(2)#12, (1)#12G, 3/4"C.	@42" A.F.F.	5-15P
1	31B	RECESSED BACON WARMER	MARSHALL	JM8001K	120/1	3.5		(2)#12, (1)#12G, 3/4"C.	@18" A.F.F.	10
1	33	UNDERCOUNTER REFRIGERATOR WITH DRAWERS	HOSHIZAKI AMERICA, INC	CZ3N-1	120/1	2.6		(2)#12, (1)#12G, 3/4"C.	@18" A.F.F.	10
1	34	BAG IN BOX MACHINE	PEPSI	PEPSI	120/1	5.0		(2)#12, (1)#12G, 3/4"C.	@80" A.F.F.	--
1	46	ICE MAKER	PEPSI	MANITOCWOC ITY0705A	208/1	11.1		(2)#12, (1)#12G, 3/4"C.	@48" A.F.F.	--
1	GWH	GAS FIRED WATER HEATER	NAVIEN	NPE-240A	120/1	1.0		(2)#12, (1)#12G, 3/4"C.	--	9

NOTES:
1. FOR WALK-IN COOLER LIGHTS AND DOOR HEATER. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER PRIOR TO COMMENCING WORK. 15A MAX BREAKER.
2. FOR WALK-IN COOLER COMPRESSOR/EVAPORATOR. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER PRIOR TO COMMENCING WORK. 20A MAX FUSE.
3. FOR STA-IN FREEZER LIGHTS, DOOR HEATER, FAN, AND/OR DRAIN LINE HEATER. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER PRIOR TO COMMENCING WORK. 15A MAX BREAKER.
4. FOR STA-IN FREEZER COMPRESSOR. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER PRIOR TO COMMENCING WORK. 15A MAX FUSE.
5. DEDICATED DUPLEX RECEPTACLE MOUNTED BELOW COUNTER-TOP WITH IN 6'-0" OF EQUIPMENT.
6. PROVIDE 30A, 208V/1-PHASE FUSED DISCONNECT WITH (2) 20A FUSES. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MANUFACTURER.
7. PROVIDE 30A, 208V/1-PHASE FUSED DISCONNECT WITH (2) 15A FUSES. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MANUFACTURER.
8. SYSTEM REQUIRES 120V SERVICE FOR FAN MOTORS AND/OR DRAIN LINE HEATERS. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.
9. PROVIDE 30A, 120V/1-PHASE, NON-FUSED DISCONNECT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR.
10. UNIT TO BE HARDWIRED. SEE SPEC SHEET FOR EXACT MOUNTING REQUIREMENTS.

GFCI NOTES

1. ALL KITCHEN AND RESTROOM SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER N.E.C. 210.8.B.
2. ALL GFCI RECEPTACLES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION OR A DEAD FRONT GFI DEVICE INSTALLED IN A READILY ACCESSIBLE LOCATION SHALL BE PROVIDED OR A GFCI CIRCUIT BREAKER SHALL USED TO FEED THE CIRCUIT NOTED.
3. ALL 125V, 15A AND 20A CIRCUITS TO KITCHEN EQUIPMENT SHALL BE FED WITH A DEDICATED NEUTRAL WIRE.

POWER PLAN KEYED NOTES

1. PROVIDE 120V. CONNECTION FOR LIGHTS, DOOR HEATER, FAN, AND/OR DRAIN LINE HEATER. PROVIDE CONNECTIONS PER MANUFACTURERS REQUIREMENTS AND N.E.C. ARTICLE 300-7.
2. PROVIDE CEILING RECEPTACLE MOUNTED WITHIN 18 INCHES OF THE TOP OF THE WINDOW AS REQUIRED FOR COMPLIANCE WITH THE N.E.C. SHOW WINDOW REQUIREMENTS.
3. NOT USED
4. EXHAUST FAN HOOD. CONTRACTOR SHALL PROVIDE "SHUNT-TRIP" CONTROL FOR ALL ELECTRICAL EQUIPMENT UNDER THE HOOD. FAN(S) INTERLOCK AND SHUNT-TRIP SHALL BE WIRED THRU HOOD FIRE SUPPRESSION SYSTEM CONTROL. SEE MECHANICAL HOOD DRAWINGS AND DETAIL #2 THIS SHEET FOR MORE INFORMATION AND ADDITIONAL REQUIREMENTS.
5. FINAL LOCATION OF TAMPER-RESISTANT OUTLETS IN DINING SHALL BE DETERMINED BY OWNER. COORDINATE LOCATION PRIOR TO ROUGH-IN.
6. HOOD SYSTEM CONTROLLER. VERIFY EXACT LOCATION WITH EQUIPMENT SUPPLIER. COORDINATE ALL WIRING REQUIREMENTS AND UNIT INTERLOCKS WITH MECHANICAL HOOD DRAWINGS
7. CIRCULATION OF AIR FROM WARMER TO COLDER SECTIONS OF INTERIOR RACEWAY SYSTEM EXPOSED TO WIDELY DIFFERENT TEMPERATURES SHALL BE PREVENTED. SEAL AS REQUIRED PER N.E.C. 300.7(A). PROVIDE EXPANSION JOINTS FOR CONDUIT AS REQUIRED TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION. .
8. CAT6 DATA OUTLET. PROVIDE 1/2" CONDUIT WITH CAT6 CABLE TO TELEPHONE/DATA/TV SHELF.
9. NEW 240V/3P PRIMARY, 120V/208V/3P SECONDARY, 75KVA TRANSFORMER. VERIFY FINAL LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH IN.
10. REMOTE CAPSUL PACK. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH IN.
11. LANDLORD TO PROVIDE 1" CONDUIT STUBBED AT THE REAR WITHIN THE PREMISES ORIGINATING FROM THE PROPERTY'S JOINT TELEPHONE POINT OF DEMARCATION. EXTEND FROM POINT OF SERVICE STUB-IN TO LOCATION OF OWNER'S DATA RACK FOR INSTALLATION OF NEW TELECOMMUNICATIONS SERVICE.
12. EC TO INSTALL RECEPTACLES FOR 'DROP-IN' EQUIPMENT TO SIDE OF EQUIPMENT. VERIFY WITH OWNER EXACT PLACEMENT OF RECEPTACLE.

GENERAL NOTES

1. THE SCOPE OF THE ELECTRICAL WORK SHALL INCLUDE FURNISHING, INSTALLING, CONNECTING AND TESTING ALL ELECTRICAL SYSTEMS FOR A COMPLETE AND FULLY OPERABLE INSTALLATION COMPLYING WITH THE LATEST VERSIONS OF ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. LOCATIONS OF EXISTING ELECTRICAL SYSTEM, EQUIPMENT AND DEVICES SHALL BE VERIFIED IN THE FIELD BY THE TENANT'S GENERAL CONTRACTOR (T.G.C.).
3. VERIFY ELECTRICAL REQUIREMENTS FOR ALL SPECIAL EQUIPMENT PRIOR TO ANY WORK BEING PERFORMED. PROVIDE ISOLATED GROUND WIRE PER EQUIPMENT MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE CONDUIT FOR MECHANICAL CONTROLS AS REQUIRED BY CODE. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF A/C UNITS AND EXHAUST FANS WITH MECHANICAL CONTRACTOR.
4. E.C. SHALL DETERMINE, ARRANGE AND PAY FOR PROPER SERVICE AND METERS.
5. E.C. SHALL PROVIDE, AT EACH TELEPHONE JACK INDICATED, AN OUTLET BOX, CONDUIT AND FACEPLATE AND JACK OUTLET. THE CONDUIT SHALL EXTEND ABOVE SUSPENDED CEILING. PROVIDE PLENUM RATED TELEPHONE WIRE AS REQUIRED TO EACH BOX.
6. E.C. SHALL PROVIDE CORD & PLUGS AS REQUIRED FOR KITCHEN EQUIPMENT. COORDINATE WITH EQUIPMENT MANUFACTURER AND K.E.C.
7. WHEN MAIN ELECTRICAL SERVICE IS PROVIDED BY THE LANDLORD, HIS OBLIGATIONS TERMINATE AT THE DISCONNECT. ALL PANELS, FEEDERS, ETC. REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE PROVIDED BY THE E.C.
8. STARTER & RELATED WIRING SHALL BE FURNISHED, INSTALLED AND CONNECTED BY E.C. OVERLOAD LIMITS SHALL BE INSTALLED PER GIVEN NAMEPLATE DATA ON EQUIPMENT. STARTERS SHALL BE INSTALLED AS PER REQUIREMENTS.
9. E.C. TO PROVIDE ELECTRICAL OUTLET FIRE PROTECTION PAD FOR ALL RECEPTACLES IN RATED WALL AS MANUFACTURED BY PFP PARTNERS. APPLY TO BOXES AS INSTRUCTED BY MFR. TO PROVIDE RATING TO MEET RATING OF CORRESPONDING WALL.
10. WHERE PORTIONS OF A CABLE RACEWAY OR SLEEVE ARE KNOWN TO BE SUBJECTED TO DIFFERENT TEMPERATURES AND WHERE CONDENSATION IS KNOWN TO AN ISSUE, AS IN COLD STORAGE AREAS OF BUILDINGS OR WHERE PASSING FROM THE INTERIOR TO THE EXTERIOR OF A BUILDING, THE RACEWAY OR SLEEVE SHALL BE FILLED WITH AN APPROVED MATERIAL TO PREVENT THE CIRCULATION OF WARM AIR TO COLDER SECTION OF THE RACEWAY OR SLEEVE PER N.E.C. 300.A (A)
11. COORDINATE LOCATIONS AND ROUTING OF FEEDERS TO PANELBOARDS WITH LANDLORD AND PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED BY LANDLORD AND OWNER.
12. WHERE THE WORD "PROVIDE" IS USED, THE WORD IS UNDERSTOOD TO MEAN "THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND MAKE FINAL CONNECTION TO THE EQUIPMENT", UNLESS OTHERWISE NOTED.
13. VERIFY EXACT LOCATION, MOUNTING HEIGHT AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PROVIDED BY OTHERS (INCLUDING HVAC EQUIPMENT) PRIOR TO ROUGH-IN AND PROVIDE ALL REQUIRED FUSIBLE SWITCHES, TRANSFORMERS, STARTERS NECESSARY FOR PROPER OPERATION OF EQUIPMENT.
14. REFER TO LANDLORD'S DESIGN SPECIFICATION FOR ADDITIONAL REQUIREMENTS AND INFORMATION.
15. NEW & RELOCATED LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 48" AND NO LOWER THAN 15" ABOVE THE FLOOR PER A.D.A. REQUIREMENTS. RESOLVE ANY CONFLICT IN MOUNTING HEIGHT WITH ARCHITECT/OWNER PRIOR TO ROUGH IN.
16. REFER TO ALL DISCIPLINES, INCLUDING ARCHITECTURAL & KITCHEN, PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
17. ALL RECEPTACLES IN PUBLIC SPACES SHALL BE LISTED TAMPER-RESISTANT, AS SHOWN ON DRAWINGS.
18. ALL CONDUITS ARE TO BE CONCEALED IN WALLS OR ABOVE CEILINGS. CONDUITS IN EXPOSED CEILING AREAS SHALL EXIT WALLS AS CLOSE TO ROOF/FLOOR STRUCTURAL DECK AS POSSIBLE.
19. ALL LOW VOLTAGE WIRING IN CEILING PLENUM (INCLUDING TELEPHONE. DATA, ALARM AND TEMP. CONTROL WIRING) SHALL BE UL LISTED TEFLON PLENUM CABLE.
20. UNLESS OTHERWISE NOTED, ALL ELECTRICAL WORK FOR FABRICATED FOOD SERVICE EQUIPMENT SHALL BE COMPLETELY WIRED BY KITCHEN EQUIPMENT DIVISION TO A JUNCTION BOX OR PULL BOX MOUNTED ON THE EQUIPMENT IN AN ACCESSIBLE LOCATION. FINAL CONNECTIONS TO EQUIPMENT JUNCTION BOX OR PULL BOX AND ALL ELECTRICAL WORK FROM PANEL BOARDS TO BE BY THE ELECTRICAL DIVISION.
21. FINAL CONNECTIONS TO ALL EQUIPMENT TO BE BY ELECTRICAL DIVISION, INCLUDING MATERIALS.
22. ELECTRICAL DIVISION TO PROVIDE THE FOLLOWING:
    A. ALL JUNCTION BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES, ETC., NOT BUILT INTO FIXTURES OR EQUIPMENT. ALL OUTLETS, JUNCTION BOXES, COVER PLATES, ETC., IN DISHROOMS OR AS INDICATED ON SCHEDULES MUST BE VAPOR PROOF.
    B. ALL PLUGS AND CORDS AS NOTED ON SCHEDULE. ALL CORDS SHALL BE N.E.M.A.-RATED AND U.L.-APPROVED FOR MANUFACTURED AND/OR FABRICATED EQUIPMENT.
    C. SHUNT-TRIP CIRCUIT BREAKERS/CONTACTORS OR DISCONNECTS FOR FIRE CONTROL SYSTEM SHUT-OFF OF FOODSERVICE EQUIPMENT BELOW HOODS/VENTILATORS AS REQUIRED BY ADOPTED N.F.P.A. AND LOCAL CODES.
    D. DISCONNECTS OR OTHER DEVICES AS REQUIRED BY CODES.
23. WHEN APPLICABLE, ELECTRICAL DIVISION TO PROVIDE CONDUIT AND WIRING, INSTALL ELECTRICAL COMPONENTS (PROVIDED BY K.E.C.) AND INTERWIRE BETWEEN THE FOLLOWING.
    A. REMOTE REFRIGERATION EQUIPMENT TO EVAPORATOR COILS.
    B. CONTROL PANELS TO WATER-TYPE, VENTILATORS AND EXHAUST SUPPLY FANS PER MANUFACTURER'S INSTRUCTIONS.
    C. KITCHEN EXHAUST HOOD/VENTILATORS TO FIRE CONTROL SYSTEM AND SHUT-OFFS.
24. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ALL TRADES AND VERIFY THAT ALL EQUIPMENT SHIPPED TO THE SITE IS COMPATIBLE WITH MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS PRIOR TO INSTALLATION OF SAID EQUIPMENT. IN THE EVENT OF ANY DISCREPANCIES, IMMEDIATELY CONTACT DESIGNER BEFORE PROCEEDING.
25. ALL DEDICATED CIRCUIT OUTLETS SHALL BE ORANGE.
26. SUSPENDED ELECTRICAL CONDUITS AND OUTLET BOXES ARE TO BE SUPPORTED FROM THE STRUCTURE USING METAL BRACES.
27. THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED THROUGH-PENETRATION FIRE-STOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTM 814 OR UL1479 WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER (2.49Pa). THE SYSTEM SHALL HAVE AN "F" RATING AND A "T" RATING OF NOT LESS THAN 1-HOUR, BUT NOT LESS THAN THE REQUIRED RATING AF THE WALL PENETRATED.
28. DISCONNECT SWITCHES PROVIDED TO SERVE KITCHEN EQUIPMENT SHALL BE NEMA 4X STAINLESS STEEL.
29. VERIFY THE VOLTAGE AND AMPERAGE REQUIREMENTS OF ALL EQUIPMENT DELIVERED TO THE SIDE PRIOR TO CONNECTION. NOTIFY OWNER OF ANY DIFFERENCE.

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#	Description	Date
1	City Comments	10/30/2026

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STATE OF MISSOURI
MATTHEW R. CASE
NUMBER PE-2011000282
PROFESSIONAL ENGINEER
10/30/2026

FOR PERMIT

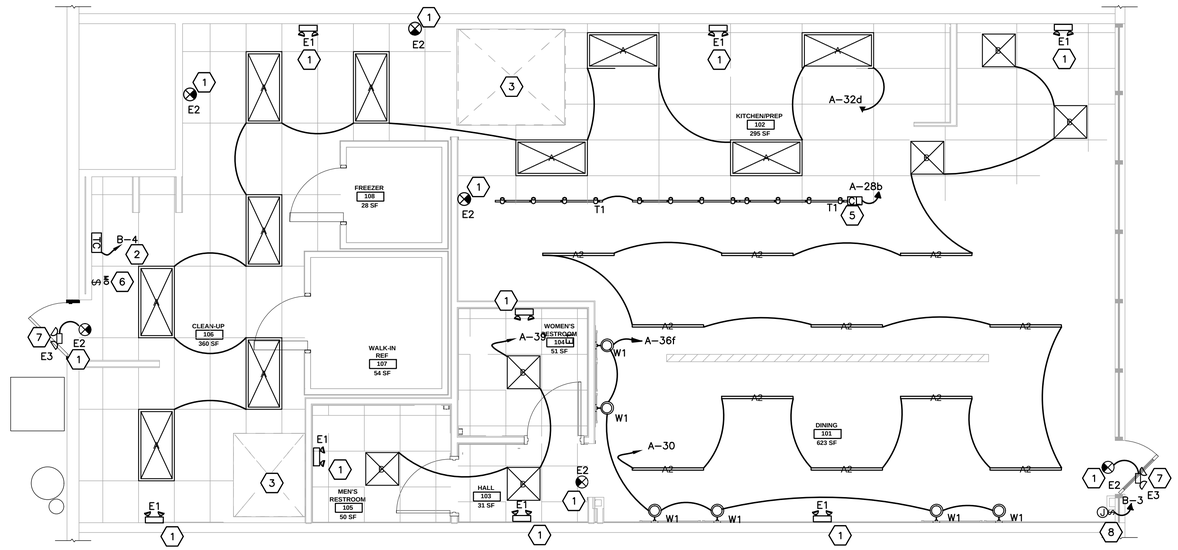
Client Approval

ELECTRICAL POWER PLAN

Project #	43426-MO01
Issue Date	10/07/2026
Scale	As indicated
Drawn by	
Checked by	

E2.0

7/2/2026 12:19:38 PM JERSEY MIKES - KANSAS CITY



PLAN NORTH

1 ELECTRICAL LIGHTING PLAN

1/4" = 1'-0"

0 2' 4' 8'

LIGHTING PLAN KEYED NOTES (xx)

1. EMERGENCY EGRESS/EXIT FIXTURES SHALL BE CONNECTED TO A NON-SWITCHED LEG OF LOCAL CIRCUIT.
2. TIMECLOCK MOUNTED IN STOCKROOM. SEE 'LIGHTING CONTROL DIAGRAM', THIS SHEET. COORDINATE WITH OWNER FOR CONTROL SCHEDULE(S) AND OTHER REQUIREMENTS.
3. EXHAUST HOOD LIGHTS SUPPLIED WITH HOOD AND MOUNTED IN PRE-WIRED J-BOX. COMPLETE CIRCUITING. SEE MECHANICAL HOOD SHOP DRAWINGS FOR MORE INFORMATION.
4. NOT USED
5. PROVIDE A 1-AMP CURRENT LIMITER END FEED CONNECTION COMPATIBLE WITH TRACK.
6. MANUAL OVERRIDE SWITCH. REFER TO LIGHTING CONTROL DETAIL ON THIS SHEET.
7. EC TO PROVIDE WEATHERPROOF EXTERIOR EGRESS LIGHT. FIXTURE SHALL BE A STANDARD ACCESSORY OF THE EXIT SIGN TO WHICH CONNECTED.
8. PER LANDLORD LEASE LETTER, STOREFRONT SIGN POWER PROVIDED BY LANDLORD. VERIFY EXISTING CONDITIONS, PROVIDE ADDITIONAL WORK AS REQUIRED FOR CODE COMPLIANCE AND EQUIPMENT FUNCTIONALITY. PROVIDE CONNECTIONS FOR OPERATION FROM TENANT LIGHTING CONTROL SYSTEM PER DETAILS THIS SHEET. FIELD VERIFY CIRCUITING.

LIGHTING PLAN GENERAL NOTES

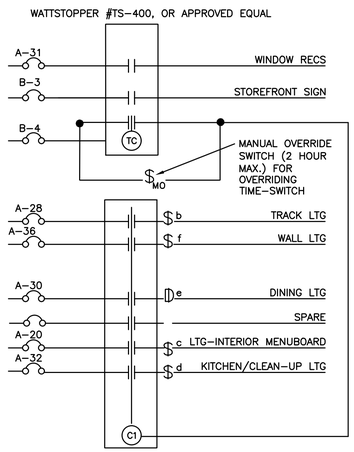
1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES. VERIFY CEILING TYPE AND PROVIDE NECESSARY MOUNTING HARDWARE TO ACCOMMODATE LIGHT FIXTURES USED. PROVIDE SLOPE CEILING ADAPTERS WHERE REQUIRED.
2. ALL CONDUITS ARE TO BE CONCEALED IN WALLS OR ABOVE CEILINGS. CONDUITS IN EXPOSED CEILING AREAS SHALL EXIT WALLS AS CLOSE TO ROOF/FLOOR STRUCTURAL DECK AS POSSIBLE.
3. ANY EXISTING MATERIALS OR EQUIPMENT NOT TO BE REUSED MUST BE COMPLETELY REMOVED AND DISPOSED OF LEGALLY. NO EQUIPMENT OR COMPONENTS MAY BE ABANDONED IN PLACE WITHOUT WRITTEN PERMISSION OF THE LANDLORD.
4. THE DIRECTIVE, IF ANY, OF THE BUILDING OFFICIAL SHALL TAKE PRECEDENCE OVER THIS DRAWING REGARDING LOCATION AND NUMBER OF EXIT AND EMERGENCY EGRESS LIGHTS.
5. ALL FIXTURES TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
6. ALL PENDANT MOUNTED FIXTURES SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE WITH No.9 GAGE WIRE OR APPROVED ALTERNATE SUPPORT WITHOUT USING CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.
7. ALL LIGHTING FIXTURES MUST BE SUPPORTED BY #12 GAUGE WIRE ATTACHED TO THE GRID MEMBERS WITHIN 3" OF EACH CORNER OF EACH FIXTURE.
8. ALL RACEWAYS IN MILLWORK SHALL BE INSTALLED CONCEALED FROM VIEW.
9. ELECTRICAL CONTRACTOR TO VERIFY LIGHTING FOR WALK-IN COOLER & FREEZER. PROVIDE FIXTURE IF COOLER DOES NOT HAVE BUILT-IN LIGHT, OR COOLER LIGHTING IS NOT EXISTING. COORDINATE LOCATION WITH SUPPLIER. CONTACT ENGINEER WITH ANY QUESTIONS REGARDING COOLER LIGHTING. LIGHTING FIXTURES FURNISHED LOOSE BY THE WALK-IN MANUFACTURER SHALL BE INSTALLED AND CONNECTED BY THE E.C.
10. EXIT AND EMERGENCY FIXTURES TO BE CONNECTED TO UNSWITCHED LEG OF THE LOCAL LIGHTING CIRCUIT AND PROVIDE CONTINUOUS ILLUMINATION PER N.E.C. 700-12(A) AND N.F.P.A. 101, LIFE SAFETY CODE.
11. ALL TRACK AND PENDANT LIGHTING FIXTURES POWER IS TO BE FED FROM THE CEILING. DO NOT FEED POWER FOR TRACK OR PENDANT LIGHT FIXTURES FROM THE WALLS.
12. ALL LIGHTING FIXTURES IN FOOD AND BEVERAGE PREP AREA SHALL HAVE PROTECTIVE SHIELDS.
13. ALL WORK TO COMPLY WITH THE APPLICABLE EDITION OF THE N.E.C. HAVING BEEN ADOPTED AND ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
14. ALL EQUIPMENT TO BE LISTED BY A NATIONALLY RECOGNIZED TESTING LAB (I.E. U.L., E.T.L, ETC.).
15. LIGHT FIXTURES IN CONTACT WITH INSULATION TO BE U.L. LISTED FOR THERMAL BARRIER OR PROVIDE 3" MINIMUM CLEARANCE.
16. MOUNT THE FOLLOWING ABOVE FINISHED FLOOR.
    OUTLETS – 15" (BOTTOM OF BOX MINIMUM) TO 48" (TOP OF BOX MAXIMUM)
    SWITCHES – 36" (BOTTOM OF BOX MINIMUM) TO 48" (TOP OF BOX MAXIMUM)
    THERMOSTAT – 36" (BOTTOM OF BOX MINIMUM) TO 48" (TOP OF BOX MAXIMUM)
17. ALL SERIES RATED PANELS SHALL BE PROPERLY IDENTIFIED PER SECTION 110-22, N.E.C.
18. SEAL CONDUITS THROUGH WALK-IN COOLER/FREEZER PER N.E.C. 300.7(A).

LIGHT FIXTURE SCHEDULE / LAMP SCHEDULE

SYMBOL	TYPE	CATALOG NUMBER	DESCRIPTION	VOLTS	MOUNTING	LAMP/ FIXT	WATTS/ LAMP	FIXTURE WATTS	LAMP TYPE.
	A	MIC-24FP-35K-50W	2'X4' FLAT PANEL LED	UNIV	LAY-IN	1	50	50	LED
	B	MIC-22FP-35K-50W	2'X2' FLAT PANEL LED	UNIV	LAY-IN	1	40	40	LED
	T1	TH-10W-35K-WHITE	WHITE TRACKHEAD FOR MENUBOARD AND ABOVE MEAT CASE AND SLICER	UNIV	TRACK	1	10	10	LED
	W1	JM9002	WALL SCONCE POLISHED NICKEL G40 LED FILAMENT BULB	UNIV	WALL	1	6	6	LED
	E1	EM2H-90	2-HEAD 6V EMERGENCY	UNIV	WALL	2	2.2	4.4	LED
	E2	EXIT-6IN	EXIT UNIV. LED RED	UNIV	WALL	1	2.2	2.2	LED
	E3	EMEXIT2H-90-6IN	EXIT/EMERG. COMBO LED W/REMOTE	UNIV	SURFACE	2	2.2	4.4	LED
	A2	14CGT4035C	1'X4' FLAT PANEL LED	UNIV	LAY-IN	1	39.4	39.4	LED

LUMINAIRE SCHEDULE NOTES:

1. ALL LIGHTING FIXTURES AND LAMPS IN THE ABOVE SCHEDULE (UNLESS NOTED WITH **) ARE PROVIDED BY THE CONTRACTOR VIA A NATIONAL CONTRACT WITH FSG LIGHTING NATIONAL ACCOUNTS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE LIGHTING FIXTURES. ANY QUESTIONS REGARDING FIXTURE AND LAMP TYPES, INSTALLATION REQUIREMENTS, AND ORDERS SHALL BE WITH LEON MOWADIA OF FSG AT (212) 776-7900 X21113, OR (848) 203-7175, OR BY EMAIL LEON.MOWADIA@FSGI.COM
2. **LIGHTING FIXTURES AND LAMPS IN THE ABOVE SCHEDULE INDICATED WITH (**) ARE PROVIDED BY THE CONTRACTOR VIA A NATIONAL ACCOUNT WITH HERMITAGE LIGHTING NATIONAL ACCOUNTS. THE CONTRACTOR IS RESPONSIBLE FOR PURCHASING AND INSTALLING THE LIGHTING FIXTURES. ANY QUESTIONS REGARDING FIXTURE AND LAMP TYPES, INSTALLATION REQUIREMENTS, AND ORDERS SHALL BE WITH WYATT CULVER OF HERMITAGE LIGHTING AT (800) 264-3383, OR (615) 843-3379 OR LEE DANIELS AT (615) 843-3364.



COORDINATE WITH OWNER FOR ON/OFF SCHEDULE

2 LIGHTING CONTROL DIAGRAM

SCALE: NONE

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STATE OF MISSOURI
MATTHEW R. CASE
NUMBER PE-2017000282
PROFESSIONAL ENGINEER

10/30/2026

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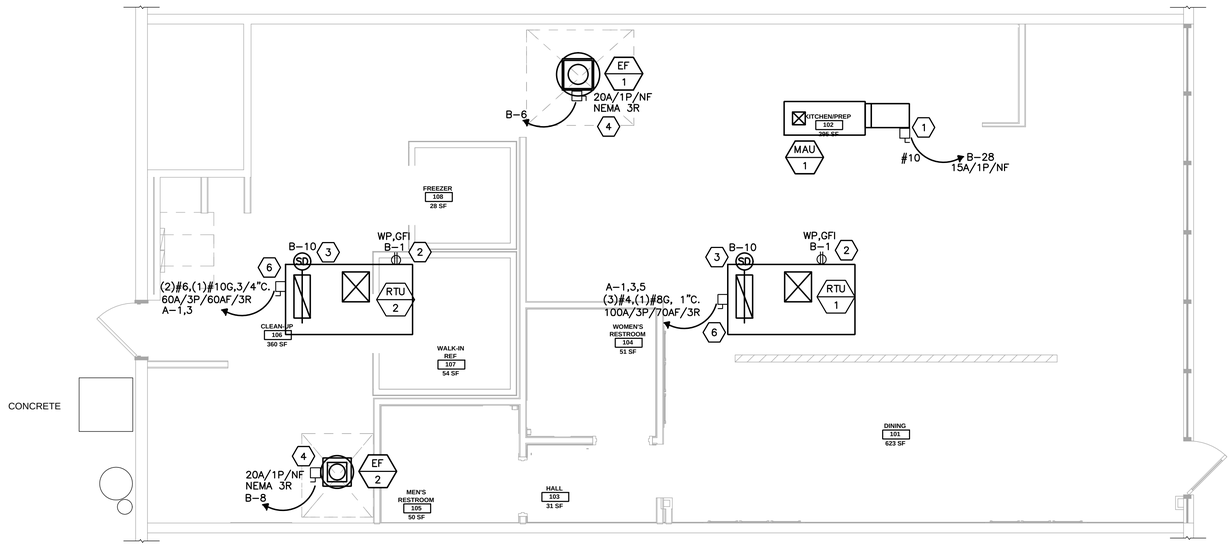
Client Approval

ELECTRICAL LIGHTING PLAN

Project #	43426-MO01
Issue Date	10/07/2026
Scale	As indicated
Drawn by	
Checked by	

E3.0

7/2/2026 12:19:38 PM JERSEY MIKES - KANSAS CITY



PLAN NORTH

ELECTRICAL HVAC PLAN

1/4" = 1'-0"

0 2' 4' 8'

ELECTRICAL HVAC PLAN KEYED NOTES (XX)

1. FACTORY INSTALLED DISCONNECT SWITCH.
2. EC TO CONNECT POWER SUPPLY TO FACTORY INSTALLED RECEPTACLE.
3. PROVIDE #12 CONDUCTORS TO DUCT SMOKE DETECTORS, AND WRING TO REMOTE TESTING STATIONS AS LOCATED BY A.H.J.
4. NEW EXHAUST FANS EF-1, EF-2. PROVIDE CONDUIT AND CONDUCTORS AS SCHEDULED. COORDINATE ELECTRICAL REQUIREMENTS AND LOCATION OF EQUIPMENT WITH MC PRIOR TO BID. PROVIDE INTERLOCK WITH HOOD CONTROLS.
5. NOT USED.
6. NEW RTU-1, RTU-2. PROVIDE FUSED DISCONNECT ON LINE SIDE OF FACTORY DISCONNECT SWITCH AS SHOWN. VERIFY EXACT LOCATION AND ALL ELECTRICAL WORK WITH MECHANICAL CONTRACTOR.

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JERSEY MIKES - KANSAS CITY

15 NW Barry Rd
Kansas City, MO 67501

#	Description	Date
1	City Comments	10/30/2026

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STATE OF MISSOURI
MATTHEW R. CASE
NUMBER PE-2017000282
PROFESSIONAL ENGINEER

10/30/2026

FOR PERMIT

Client Approval

ELECTRICAL HVAC PLAN

Project #	43426-MO01
Issue Date	10/07/2026
Scale	As indicated
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Checked by	

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NOTES	CKT	LTG	REC	HVAC	MISC	KIT	DESCRIPTION	AMP	POLE	↕	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	KIT	CKT	NOTES
	1			6.40			RTU-1	70	3	A	20	1	CONV RECEP		0.20				2	
	3			6.40						B	15	1	23A CONDENSATE HOOD					0.86	4	
	5			6.40						C	20	1	#26 DRINK DISPENSER					1.12	6	A
	7				0.90		4' DROP IN COLD UNITS	15	1	A	20	1	#28 BREWER/DISPENSER					1.73	8	A
A	9				0.42		#4 MEAT SLICER	15	1	B	15	1	#31 COUNTER-TOP FOOD WARMER					0.70	10	A
A	11				3.73		#10 BREAD OVEN	60	3	C	20	1	#31B RECESSED BACONWARMER					0.42	12	A
	13				3.73					A	20	1	#34 BAG-IN BOX SYSTEM					0.60	14	A
A	15				3.73					B	20	1	#17 PEPSI COOLER					0.86	16	A
A	17				0.67		#18B WALK-IN COOLER	20	2	C	20	1	#8 CASH REGISTERS					1.20	18	A,B
	19				0.67					A	20	1	MENU BOARD					0.50	20	A
	21				1.90		#18A CONDENSING UNIT (WIC)	15	1	B	20	1	KITCHEN RECEPS		0.60				22	A
	23				1.15		#19B STEP IN FREEZER	15	2	C	20	1	RESTROOM RECS.		0.36				24	
	25				1.15					A	20	1	#4 MEAT SLICER		0.42				26	A
	27				1.80		#19A CONDENSING UNIT (SIF)	15	1	B	20	1	TRACK LTG	0.12					28	
A	29				0.86		#21A SANDWICH UNIT	15	1	C	20	1	DINING LTG	0.76					30	
	31		0.72				WINDOW RECS	20	1	A	20	1	KITCHEN/CLEAN-UP LTG	0.54					32	
	33		1.08				WALL RECS	20	1	B	20	1	SPARE						34	
A	35				1.00		#1 4' MEAT CASE	20	1	C	20	1	WALL LTG	0.04					36	
	37		0.20				TV RECEP	20	1	A				0.00	2.61	3.69	0.00	0.00	38	
	39	0.20					RESTROOM LTG	20	1	B	100	3	PANEL B	1.00	0.58	5.51	0.25	0.91	40	
	41						SPARE	20	1	C				0.00	1.69	3.73	0.68	0.70	42	

MOUNT: SURFACE 120/208 3-PHASE, 4W — PANEL A — CAPACITY: 200A — INT CAP: 65KA
LOCATION: BACK DOOR WALL — LUGS: 200A MCB — DEMAND LOAD: 185A — AV. FAULT:

PHASE BALANCE			LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
			LIGHTING	2.7 KVA	3.3 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
↕	LOAD	%	RECEPTACLE	8.5 KVA	8.5 KVA	10KVA + 50% REMAINDER NEC 220.44	77.0 KVA	66.7KVA
A	24.5 KVA	32%	HVAC	33.6 KVA	33.6 KVA	LOAD X 100% (USED MCA IN CALCULATION)	213.6A	185.1A
B	27.4 KVA	36%	MISC	0.9 KVA	0.9 KVA	LOAD X 100% NEC 210.19 NON-CONT.	CASE Engineering Inc.	
A	25.0 KVA	32%	KIT	31.3 KVA	20.4 KVA	65% PER NEC TABLE 220.56		

NOTES:
A. PROVIDE NEW 5mA TRIP GFCI TYPE CIRCUIT BREAKER.
B. BRANCH CIRCUIT BREAKERS WITHIN PANEL A SHALL BE SERIES RATED WITH THE MAIN BREAKER WITHIN THE PANEL.

NOTES	CKT	LTG	REC	HVAC	MISC	KIT	DESCRIPTION	AMP	POLE	↕	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	KIT	CKT	NOTES
A	1		0.20				WALL REC	20	1	A	20	1	HVAC RECEP		0.54				2	
	3	1.00					STOREFRONT SIGN	20	1	B	20	1	TIMECLOCK			0.25			4	
A	5				0.18		HOT WATER RECIRC. PUMP	20	1	C	20	1	EF-1			0.37			6	
	7			0.20			WATER HEATER	20	1	A	20	1	EF-2			0.13			8	
	9					0.60	EXHAUST HOOD #23	20	1	B	20	1	SMOKE DETECTOR				0.25		10	
A	11					0.70	GRILLE #22	20	1	C	20	1	ANSUL SYSTEM CONTROLLER				0.50		12	
	13		0.18				MAINTENANCE REC	20	1	A	20	1	SPARE						14	
	15		0.40				FUTURE PRINTERS	20	1	B	20	1	SPARE						16	
	17						SPARE	20	1	C	20	1	SPARE						18	
A	19		0.36				KITCHEN REC	20	1	A	20	1	SPARE						20	
A	21					0.31	#33 UNDERCOUNTER REFRIGERATOR	20	1	B	20	1	CONV REC		0.18				22	A
A	23		0.36				NOOK GFCI	20	1	C	20	2	#46 ICE MAKER		1.33				24	A
	25			3.36			RTU-2	40	3	A					1.33				26	
	27			3.36						B	25	1	MAU-1			1.90			28	
	29			3.36						C	20	1	SPARE						30	
	31						SPARE	20	1	A	20	1	SPARE						32	
	33						SPARE	20	1	B	20	1	SPARE						34	
	35						SPARE	20	1	C	20	1	SPARE						36	
	37						SPARE	20	1	A	20	1	SPARE						38	
	39						SPARE	20	1	B	20	1	SPARE						40	
	41						SPARE	20	1	C	20	1	SPARE						42	

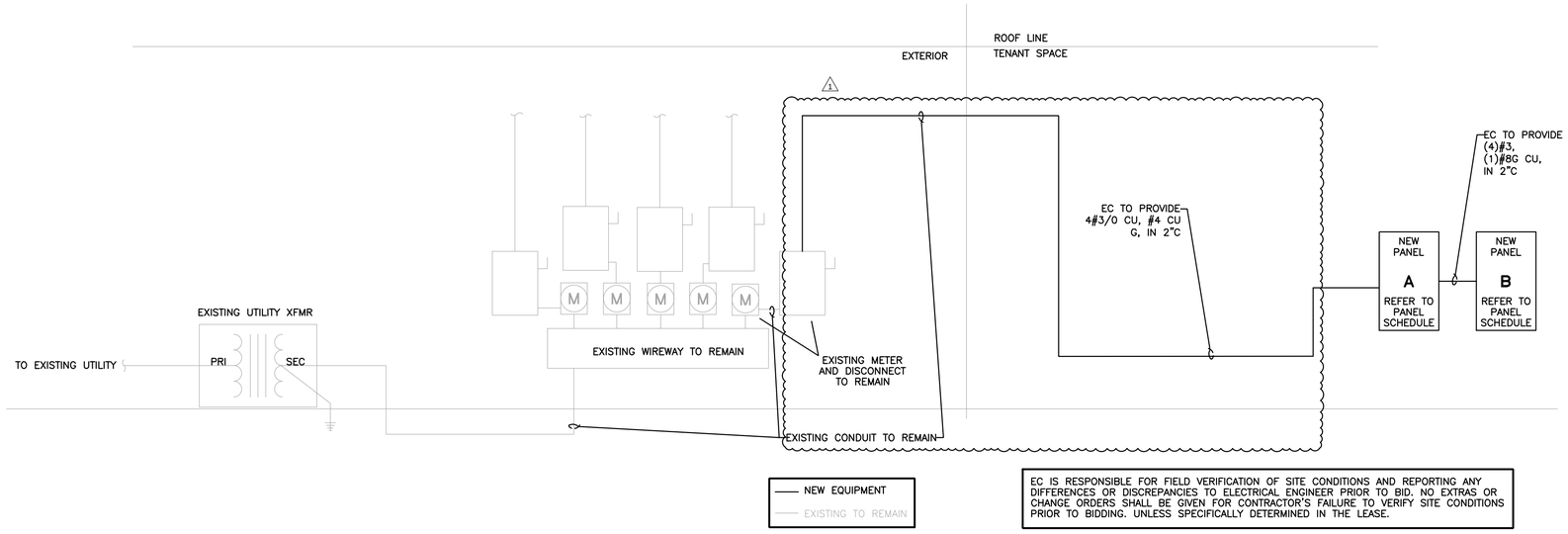
MOUNT: SURFACE 120/208 3-PHASE, 4W — PANEL B — CAPACITY: 100A — INT CAP: 65KA
LOCATION: BACK DOOR WALL — LUGS: 100A MLO — DEMAND LOAD: 58A — AV. FAULT:

PHASE BALANCE			LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
			LIGHTING	1.0 KVA	1.3 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
↕	LOAD	%	RECEPTACLE	4.9 KVA	4.9 KVA	10KVA + 50% REMAINDER NEC 220.44	21.4 KVA	21.0KVA
A	6.3 KVA	30%	HVAC	12.9 KVA	12.9 KVA	LOAD X 100% (USED MCA IN CALCULATION)	59.3A	58.4A
B	8.3 KVA	39%	MISC	0.9 KVA	0.9 KVA	LOAD X 100% NEC 210.19 NON-CONT.	CASE Engineering Inc.	
A	6.8 KVA	32%	KIT	1.6 KVA	1.0 KVA	65% PER NEC TABLE 220.56		

NOTES:
A. PROVIDE NEW 5mA TRIP GFCI TYPE CIRCUIT BREAKER.
B. BRANCH CIRCUIT BREAKERS WITHIN PANEL B SHALL BE SERIES RATED WITH THE 100A SUB-FEED BREAKER IN PANEL A.

PANEL GENERAL NOTES

1. EC TO PROVIDE HANDLE TIE ON ALL MULTIWIRE BRANCH CIRCUITS PER NEC 210.4(B).
2. ALL SPARE CIRCUIT BREAKERS AND DISCONNECT SWITCHES SHALL BE LEFT IN THE OFF POSITION.
3. EC SHALL VERIFY THE VOLTAGE AND AMPERAGE REQUIREMENTS OF ALL EQUIPMENT DELIVERED TO THE SITE PRIOR TO CONNECTION. EC SHALL NOTIFY OWNER OF ANY DIFFERENCE.
4. WHEN NEW CIRCUIT BREAKERS ARE ADDED TO AN EXISTING PANEL, THE NEW CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURE AS THE EXISTING PANEL, SHALL BE OF A 'LETTER TYPE' COMPATIBLE EXISTING PANEL IS MAINTAINED AND SHALL HAVE AN AIC RATING EQUAL TO OR GREATER THAN THE AIC RATING OF THE EXISTING OVERCURRENT PROTECTIVE DEVICES WITHIN THE EXISTING PANEL.
5. EC SHALL PROVIDE ARC FLASH LABELS FOR SWITCHBOARDS AND PANELBOARDS.
6. EC SHALL PROVIDE AVAILABLE FAULT CURRENT LABELS FOR SWITCHBOARDS AND PANELBOARDS.



EC IS RESPONSIBLE FOR FIELD VERIFICATION OF SITE CONDITIONS AND REPORTING ANY DIFFERENCES OR DISCREPANCIES TO ELECTRICAL ENGINEER PRIOR TO BID. NO EXTRAS OR CHANGE ORDERS SHALL BE GIVEN FOR CONTRACTOR'S FAILURE TO VERIFY SITE CONDITIONS PRIOR TO BIDDING. UNLESS SPECIFICALLY DETERMINED IN THE LEASE.

1 **ONE-LINE DIAGRAM**
NOT TO SCALE

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
AC	ABOVE COUNTER
CLG	CEILING MOUNTED
GC	GENERAL CONTRACTOR
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
WP	WEATHERPROOF
NL	NIGHT LIGHT (CONNECT TO UNSWITCHED LEG OF CIRCUIT NOTED)
GFI	GROUND FAULT CURRENT INTERRUPTER PROTECTED DEVICE
ST	SHUNT TRIP CIRCUIT
AFF	ABOVE FINISHED FLOOR
UNO	UNLESS NOTED OTHERWISE
TTB	TELEPHONE TERMINAL BOARD
PROVIDE	FURNISH AND INSTALL COMPLETE
J	JUNCTION BOX, MOUNTING HEIGHT
	20A, 1P, 125V, GROUNDING TYPE DUPLEX RECEPTACLE (+18" AFF UNO)
	20A, 1P, 125V, GROUNDING TYPE DOUBLE DUPLEX RECEPTACLE
GFI	20A, 1P, 125V, GFCI TYPE DUPLEX RECEPTACLE
	SPECIAL USE RECEPTACLE, COORDINATE WITH EQUIPMENT SUPPLIER
EFm	CEILING MOUNTED EXHAUST FAN WITH MANUAL DISCONNECT
30/NF/3	DISCONNECT SWITCH: 30 AMP, NON-FUSED, 3 POLE
$	LIGHT SWITCH
$3	LIGHT SWITCH (3 WAY)
$4	LIGHT SWITCH (4 WAY)
$OS	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH AT 3'-6" AFF TO CENTERLINE (WATT STOPPER #DW100-WH OR EQUAL)
DS	CEILING MOUNTED DAYLIGHT SENSOR SWITCH
OS	(WATT STOPPER #DT-355 OR EQUAL)
SD	SMOKE/DUCT DETECTOR - COORDINATE WITH MECHANICAL CONTRACTOR/PLANS
	DIMMER SWITCH: LUTRON NOVA SERIES DIMMERS COMPATIBLE WITH LOW VOLTAGE LIGHTING FIXTURES AND RATED FOR LOAD NOTED IN PANEL SCHEDULE. REFER TO LOADS AT PANELBOARD SCHEDULE. MOUNTING HEIGHT AS INDICATED PER PLAN.
	COMMUNICATIONS JUNCTION BOX FOR DATA/COMM. DEVICE PLATE. EC TO ROUTE 3/4" CONDUIT WITH PULL STRING TO 6" ABOVE ACCESSIBLE CEILING AND BEND AT 90° TOWARDS TTB. EC TO PROVIDE PLASTIC BUSHING ON END OF CONDUIT.
	CONDUIT RUN CONCEALED IN CEILING OR WALL. NUMBER OF HASH MARKS INDICATE NUMBER OF #12 WIRES WHEN MORE THAN TWO ARE REQUIRED UNLESS NOTED OTHERWISE. ALL CIRCUITS SHALL INCLUDE EQUIPMENT GROUND SIZED PER NEC. HASH MARK AHEAD OF NEUTRAL INDICATES UNSWITCHED LEG. CURLED HASH MARK INDICATES DEDICATED GROUND WIRE REQUIRED.
+12"	12" ABOVE FINISHED FLOOR TO CENTERLINE
	PANELBOARD
F 5a	LIGHTING FIXTURE SWITCHING DESIGNATION - LETTER 'F' INDICATES THE FIXTURE TYPE (SEE FIXTURE SCHEDULE) THE NUMBER '5' INDICATES THE CIRCUIT IN THE PANEL NOTED AND THE LOWER CASE LETTER 'a' INDICATES THE SWITCH LEG TO CONNECT THE FIXTURE TO.
	PANELBOARD
	MULTI-COMPARTMENT FLOOR BOX - BOX SHALL BE STEEL, FULLY ADJUSTABLE AFTER THE POUR.
	CONDUIT INSTALLED BELOW FLOOR SLAB

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JERSEY MIKES - KANSAS CITY
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#	Description	Date
1	City Comments	10/30/2026

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STATE OF MISSOURI — MATTHEW R. CASE — NUMBER PE-2017000282 — PROFESSIONAL ENGINEER
10/30/2026

FOR PERMIT

Client Approval

PANEL SCHEDULE AND RISER DIAGRAM

Project #	43426-MO01
Issue Date	10/07/2026
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COM*check* Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: OCU-TX-04-26 Jersey Mikes Amarillo, TX
Project Type: Alteration

Construction Site:
15 NW Barry Rd
Kansas City, Missouri 67501

Owner/Agent:

Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Dining: Cafeteria/Fast Food	1724	0.76	1310
		Total Allowed Watts =	1310

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)
Dining: Cafeteria/Fast Food (1724 sq.ft.)				
LED: A: Other:	1	10	49	490
LED: B: Other:	1	6	31	186
LED: W1: Other:	1	6	6	36
Track Lighting: Wattage based on current limiting device capacity	0	0	120	120
LED: A2: Other:	1	11	40	440
			Total Proposed Watts =	1272

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project 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.

Matthew R. Case
Name - Title

Signature

10/07/2026
Date



COM*check* 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	

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	
C408.1.1 [FI57][1]	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)

C408.3.1.1 OCCUPANT SENSOR CONTROLS

1. CERTIFY THAT THE OCCUPANT SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
2. FOR PROJECT WITH SEVEN OR FEWER OCCUPANT SENSORS, EACH SENSOR SHALL BE TESTED.
3. FOR PROJECT WITH MORE THAN SEVEN OCCUPANT SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN 10 PERCENT AND IN CO CASE FEWER THAN ONE, OF EACH COMBINATION SHALL BE TESTED UNLESS THE CODE OFFICIAL OR DESIGN PROFESSIONAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED. WHERE 30 PERCENT OR MORE OF THE TESTED CONTROLS FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED.

FOR OCCUPANT SENSOR CONTROLS TO BE TESTED, VERIFY THE FOLLOWING:

- 3.1 WHERE OCCUPANT SENSOR CONTROLS INCLUDE STATUS INDICATORS, VERIFY CORRECT OPERATION.
- 3.2 THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
- 3.3 FOR AUTO-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE.
- 3.4 FOR MANUAL-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.
- 3.5 THE LIGHTS ARE NOT INCORRECTLY TURN ON BY MOVEMENT IN ADJACENT AREAS OR BY HVAC OPERATION.

C408.3.1.2 TIME-SWITCH CONTROLS

WHERE TIME-SWITCH CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

1. CONFIRM THAT THE TIME-SWITCH CONTROL IS PROGRAMMED WITH ACCURATE WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES.
2. PROVIDE DOCUMENTATION TO THE OWNER OF TIME-SWITCH CONTROLS PROGRAMMING INCLUDING WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES, AND SET-UP AND PREFERENCE PROGRAM SETTINGS.
3. VERIFY THE CORRECT TIME AND DATE IN THE TIME SWITCH.
4. VERIFY THAT ANY BATTERY BACK-UP IS INSTALLED AND ENERGIZED.
5. VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS.
6. SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
   - 6.1 ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
   - 6.2 THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
7. SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING
   - 7.1 NONEXEMPT LIGHTING TURN OFFS.
   - 7.2 MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUTOFF OCCURS.
8. ADDITIONAL TESTING AS SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL.

C408.3.2.2 MANUALS

AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:

1. NAME AND ADDRESS OF NOT LESS THAN ONE SERVICE AGENCY FOR INSTALLED EQUIPMENT.
2. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.
3. SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT AND LIGHTING CONTROLS.
4. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF LIGHTING EQUIPMENT. REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING AND RECOMMENDED RELAMPING SHELL BE CLEARLY IDENTIFIED.
5. A SCHEDULE FOR INSPECTING RECALIBRATING ALL LIGHTING CONTROLS.

C408.3.2.3 REPORT

A REPORT OF TEST RESULTS SHALL BE PROVIDED TO AND INCLUDE THE FOLLOWING:

1. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
2. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.

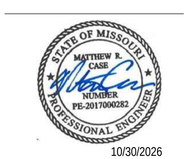
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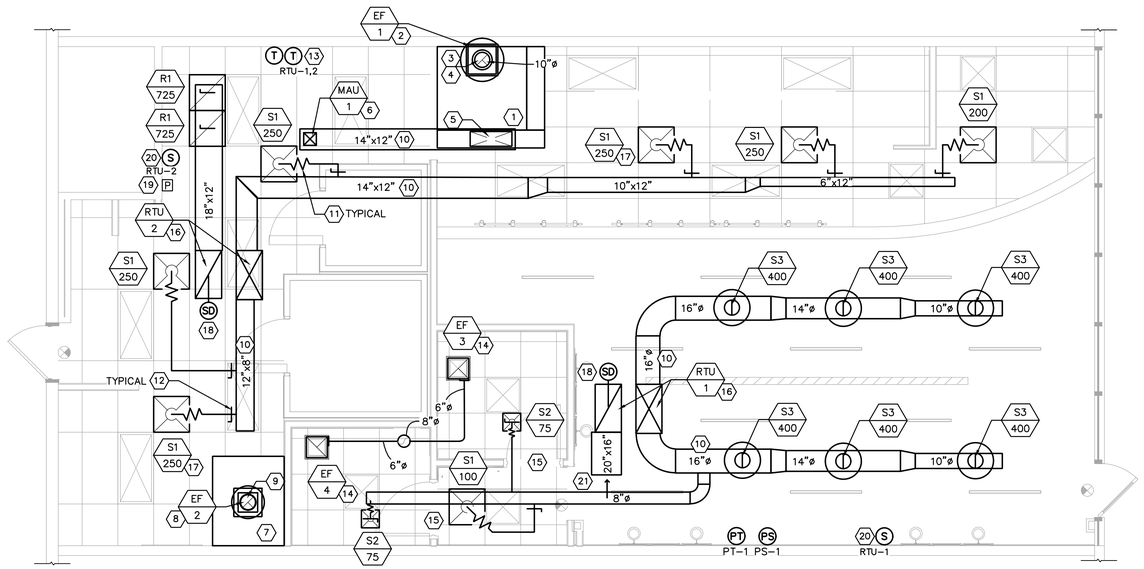
ELECTRICAL COMPLIANCE FORMS

Project #	43426-MO01
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1 MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

MECHANICAL SYMBOLS LEGEND

(T)	THERMOSTAT
	FLEXIBLE DUCT
	VOLUME DAMPER
FD ■	FIRE DAMPER
	CEILING SUPPLY AIR DIFFUSER
	CEILING RETURN AIR GRILLE
	SIDEWALL AIR DIFFUSER OR GRILLE
	NEW DUCTWORK
	EXISTING DUCTWORK
— CD —	CONDENSATE DRAIN
— G —	GAS PIPING
	PIPE TURNING DOWN
	PIPE TURNING UP
	BALL VALVE
	GATE VALVE
	CONNECTION OF NEW TO EXISTING
	CHECK VALVE
	GAS COCK
	UNION
	PRESSURE GAUGE
	STRAINER
AFF	ABOVE FINISHED FLOOR
S1 / 100	AIR DEVICE # / CFM — S – SUPPLY, R – RETURN, E – EXHAUST
	TURNING VANES

DIFFUSER NECK SIZE SCHEDULE

NECK SIZE	CFM
6"ø	0 – 140
8"ø	150 – 250
10"ø	260 – 400
12"ø	410 – 600
14"ø	610 – 1000
16"ø	1010 – 1400
18"ø	1410 – 1900

BUILDING PRESSURE CONTROL SYSTEM EQUIPMENT SCHEDULE

FUNCTION	MARK	MANUFACTURER	MODEL
PRESSURE TRANSDUCER	PT–1	DWYER	MSXP–W–1–0–IN–LCD–A481–FP–STX
PRESSURE SENSOR	PS–1	DWYER	A–417A
OUTDOOR STATIC PRESSURE SENSOR	OPS–1	DWYER	A–306

NOTES:
1. INTERLOCK WITH RTU–1.
2. 4–20 mA or 0–10V DC OUTPUT TO RTU–1 ECONOMIZER DAMPER ACTUATOR PER AHU MANUFACTURER'S "VENTILATION OVERRIDE" OPTION TO OVER–RIDE ECONOMIZER AND DCV FUNCTIONS WHEN BUILDING PRESSURE BECOMES NEGATIVE BEYOND PRESSURE TRANSDUCER SET POINT.
3. ADJUSTABLE PRESSURE SET POINT: 0.05 IN. W.C.

OUTDOOR AIR CALCULATIONS

	DESCRIPTION	AREA (SQ. FT.)	AREA OUTDOOR AIR RATE PER IMC TABLE 403.3 (Ra)	AREA OUTDOOR AIR (RaAz)	OCCUPANT LOAD RATE PER IMC TABLE 403.3 (PEOPLE/1000 SQ. FT.)	OCCUPANCY CxF /1000 (Pz)	OCCUPANT OUTDOOR AIR RATE PER IMC TABLE 403.3 (Rp)	OCCUPANT OUTDOOR AIR (RpPz)	BREATHING ZONE OUTDOOR AIR (Vbz=RpPz +RaAz)	ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez)	ZONE OUTDOOR AIR (Voz= Vbz/Ez)	SUPPLY AIR DESIGN (Vpz)	OUTDOOR AIR FRACTION (Zp=Voz/Vpz)
RTU–1	101 DINING	623	0.18	112	70	44	7.5	327	439	0.8	549	2400	0.23
	103 HALL	31	0.12	4	–	–	–	–	3	0.8	4	100	–
	104/105 TOILETS	101	0	0	–	–	–	–	–	0.8	–	150	–
RTU–2	102 SERVICE	295	0.12	35	20	6	7.5	44	80	0.8	100	700	0.14
	106 CLEAN–UP	360	0.12	43	20	7	7.5	54	97	0.8	122	750	0.16
	TOTALS	1410				57					774	4100	0.19
													Ev
	TOTAL REQUIRED OUTDOOR AIR	773.8											0.99

FAN SCHEDULE

MARK	AREA SERVED	MFR	MODEL	CFM	ESP W.G.	MOTOR					WEIGHT LBS.	CONTROL	REMARKS
						SONES	DRIVE	RPM	HP	V/PH/HZ			
EF–1	KITCHEN	CAPTIVEAIRE	DU50HFA	1000	1.0	12.4	DIRECT	1348	0.50	115/1/60	79	D	2,3
EF–2	CLEAN–UP	CAPTIVEAIRE	DU12HFA	400	0.3	8.4	DIRECT	1487	0.25	115/1/60	48	D,T	2,3
EF–3	RESTROOM	COOK	GC–148	75	0.5	2.0	DIRECT	935	36W	115/1/60	14	V	1
EF–4	RESTROOM	COOK	GC–148	75	0.5	2.0	DIRECT	935	36W	115/1/60	14	V	1

1. PROVIDE WITH FACTORY WHITE PLASTIC CEILING GRILLE, PLUG DISCONNECT, VIBRATION ISOLATION MOUNTING, BACKDRAFT DAMPER, AND FLEXIBLE DUCT CONNECTION. EXTEND DUCT AS SHOWN ON PLAN.
2. VERIFY WITH CAPTIVEAIRE DRAWINGS M3–1 THROUGH M3–11.
3. VERIFY ELECTRICAL VOLTAGE/PHASE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING UNIT.

D. INTERLOCK OPERATION SUPPLY FANS AND EXHAUST FANS. EF–1, EF–2 WITH MAU–1, RTU–1. RTU–2.
T. FAN SHALL BE INTERLOCKED WITH OVEN CONTROLS.
V. FAN TO BE INTERLOCKED WITH LIGHT SWITCH.

MECHANICAL UNIT SUPPORT

RELATED TO STRUCTURAL SUPPORT:
ALL NEW, REPLACEMENT AND/OR RELOCATED MECHANICAL UNIT(S), KITCHEN EXHAUST HOOD(S), MAKE–UP AIR UNIT(S), ELECTRICAL TRANSFORMER(S), WATER HEATER(S), INCLUDING ANY CURB(S) AND/OR CURB ADAPTOR(S)/TRANSITION CURB(S) (WHERE APPLICABLE), ARE SHOWN FOR "REFERENCE–ONLY".

ADEQUACY OF THE STRUCTURE'S ABILITY TO SUPPORT ANY OR ALL OF THESE SYSTEMS OR COMPONENT WEIGHTS, INCLUDING THE EFFECTS OF DEFLECTION, POTENTIAL FOR PONDING, SNOW DRIFTING (AS APPLICABLE), WIND LOADING AND SEISMIC LOADING HAS NOT BEEN EVALUATED BY CASE ENGINEERING, INC. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUACY AND CODE COMPLIANCE OF EXISTING STRUCTURE TO SUPPORT PROPOSED NEW EQUIPMENT.

AIR BALANCE SCHEDULE

	MARK	OA CFM	EA CFM	BALANCE
INTERLOCK	RTU–1	700	–	+700
	RTU–2	400	–	+400
	MAU–1	750	–	+750
	EF–1	–	1000	–1000
	EF–2	–	400	–400
	EF–3	–	75	–75
	EF–4	–	75	–75
	TOTAL:	1850	1550	+300

MAKE UP AIR UNIT SCHEDULE

MARK	MFR	MODEL NO.	CFM	ESP	HP	GAS HEAT MBH IN/OUT	EFFICIENCY	ELECTRICAL MCA/MOCP	ELECTRICAL V/PH	WEIGHT	REMARKS
MAU–1	CAPTIVEAIRE	D76–G7D	750	0.4	1.0	49.02/45.1	92%	16.6/25	115/1	306	1

1. SEE CAPTIVEAIRE HOOD SHEETS FOR MORE INFORMATION.

AIR DEVICE SCHEDULE

MARK	MFR	MODEL	MATL.	NECK SIZE	FRAME TYPE	PANEL SIZE	REMARKS
S1	TITUS	PSS	ST.	SCHED.	LAY–IN	24"x24"	1,2,3
S2	TITUS	PSS	ST.	SCHED.	LAY–IN	12"x12"	1,2,3
S3	TITUS	TMRA	ST.	SCHED.	DUCT–MOUNTED	10" NOM DUCT	1,2,3
R1	TITUS	PAR	ST.	SCHED.	LAY–IN	24"x24"	1,2,3

1. AIR DEVICE RUN–OUT SHALL BE SAME SIZE AS DIFFUSER NECK.
2. NC<30.
3. DIFFUSER SHALL BE WHITE TO MATCH CEILING.

ROOF TOP UNIT SCHEDULE

MARK	MFR	MODEL NO.	TONS	CFM	O.A. CFM	E.A.T. DB/WB	ESP	HP	COOLING MBH TTL/SEN	COOLING L.A.T. DB/WB	GAS HEAT MBH IN/OUT	GAS HEAT L.A.T. DB	EER/SEER	ELECTRICAL MCA/MOCP	ELECTRICAL V/PH	WEIGHT	REMARKS
RTU–1	TRANE	YHK102A3	8.5	2650	700	75/63	0.8	3.0	110.61/79.77	57/55	150/121.5	97.26	12.1/16.3	53/70	208/3	1284	1,2,3,4,5,6
RTU–2	TRANE	YHK048A3	4.0	1450	400	75/64	0.8	3.0	50.17/38.32	58/57	80/64.8	95.78	12.9/17.1	28/40	208/3	1089	1,2,3,4,5,6

1. SZVAV
2. INTERLOCK OPERATION SUPPLY FANS AND EXHAUST FANS. SEE EXHAUST FAN SCHEDULE FOR ADDITIONAL INFORMATION.
3. VERIFY ELECTRICAL VOLTAGE/PHASE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING UNIT.
4. PROVIDE ROOF TOP UNIT IN FULL COMPLIANCE WITH LOCAL CODES. ACCESSORIES: DIFFERENTIAL ENTHALPY ECONOMIZER, ECONOMIZER CONTROLS, OUTDOOR AIR DAMPERS, HAIL GUARDS, NON–FUSED ELECTRICAL DISCONNECT, UNPOWERED CONVENIENCE OUTLET, BAROMETRIC RELIEF, AND HOT GAS REHEAT DEHUMIDIFICATION AND CONTROLS.
5. PROVIDE 14" TALL ROOF CURB, VERIFY EXACT LOCATION IN FIELD.
6. BAROMETRIC ASSIST EXHAUST FANS.

HVAC & SPRINKLER KEYED NOTES

1. NEW 54"x72" TYPE I GRIDDLE HOOD WITH A 3" INTERNAL STANDOFF AND A LAYER OF INSULATION BEHIND THE HOOD TO COMPLY WITH 0" CLEARANCE TO COMBUSTIBLES. PROVIDE COMPLETE FIRE SUPPRESSION SYSTEM FOR EQUIPMENT UNDER HOOD. REFER TO HOOD DRAWINGS FOR INFORMATION.
2. NEW EXHAUST FAN (EF–1) FOR TYPE I GRIDDLE HOOD. REFER TO HOOD DRAWINGS FOR INFORMATION. LOCATE ON ROOF AND ROUTE EXHAUST DUCT THROUGH SIDE WALL. MAINTAIN MINIMUM 10'–0" HORIZONTAL DISTANCE BETWEEN EXHAUST FAN AND OUTSIDE AIR INTAKES.
3. NEW 10"ø WELDED 16 GAUGE BLACK STEEL GREASE DUCT WITH LIQUID TIGHT EXTERNAL WELD FROM TYPE I GRIDDLE HOOD. ROUTE DUCTWORK THROUGH SIDEWALL UP TO ROOF TO EF–1. PROVIDE CLEAN–OUTS IN HORIZONTAL DUCTWORK AND EACH CHANGE OF DIRECTION AND MAX. 20 FT ON CENTER AS REQUIRED BY CODE.
4. PROVIDE GREASE DUCT WRAP WITH TWO (2) LAYERS OF 3M FIRE BARRIER DUCT WRAP 15A, 1–1/2" THICK WITH 4" PERIMETER AND LONGITUDINAL OVERLAPS WHERE REQUIRED BY CODE. PROVIDE TWO HOUR FIRE RESISTIVE RATING AND ZERO CLEARANCE TO COMBUSTIBLES AT OVERLAP OR COLLAR. 3M FIRE BARRIER DUCT WRAP IS LISTED BY INTERTEK 3MU/FRD 120–13 (FORMERLY OPL GD556F) AND ASTM E 2336. INSTALL PER MANUFACTURER'S INSTRUCTIONS. REFER TO GREASE EXHAUST DUCT DETAILS M2.1 FOR ADDITIONAL INFORMATION.
5. NEW 12"x72" PERFORATED SUPPLY PLENUM AT TYPE I GRIDDLE HOOD. PROVIDE TRANSITION FROM 28"x10" CONNECTION TO 14"x12" SUPPLY DUCTWORK. ROUTE DUCTWORK UP THRU ROOF TO MAKE–UP AIR UNIT (MAU–1). BALANCE TO 750 CFM. REFER TO HOOD DRAWINGS FOR INFORMATION.
6. NEW MAKEUP AIR FAN (MAU–1) ON ROOF FOR PERFORATED SUPPLY PLENUM AT TYPE I GRIDDLE HOOD. REFER TO HOOD DRAWINGS FOR INFORMATION. VERIFY LOCATION ON ROOF WITH LANDLORD REP.
7. NEW 60"x45" TYPE II BREAD OVEN HOOD. REFER TO HOOD DRAWINGS FOR INFORMATION.
8. NEW EXHAUST FAN (EF–2) FOR TYPE II BREAD OVEN HOOD. REFER TO HOOD DRAWINGS FOR INFORMATION. LOCATE ON ROOF IN FRONT OF TENANT'S SPACE. MAINTAIN MINIMUM 10'–0" HORIZONTAL DISTANCE BETWEEN EXHAUST FAN AND OUTSIDE AIR INTAKES.
9. 10"ø EXHAUST DUCT FROM TYPE II BREAD OVEN HOOD. ROUTE DUCTWORK UP THRU ROOF TO EF–2. TRANSITION DUCT AT FAN.
10. NEW 2" EXTERNALLY INSULATED SUPPLY AND MAKE–UP AIR DUCT PROVIDED BY CONTRACTOR (TYPICAL). SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. HOLD DUCTWORK HIGH AS POSSIBLE BELOW JOIST SPACE.
11. 5'–0" FLEXIBLE DUCT (TYPICAL) MAXIMUM. PROVIDE SMOOTH TRANSITION AND PROPER SUPPORTS PER SMACNA. USE FLEXIBLE DUCT FOR FINAL RUNOUT TO DIFFUSER ONLY. REFER TO SCHEDULE FOR FLEXIBLE DUCT SIZES.
12. MANUAL VOLUME DAMPER. (TYPICAL)
13. PROVIDE SEVEN–DAY PROGRAMMABLE THERMOSTATS WITH AUTO CHANGEOVER AND RELATED WIRING TO CONTROL ROOF TOP UNITS. THERMOSTATS TO BE HONEYWELL MODEL TB7220. MOUNT AT 48" AFF. VERIFY LOCATION OF THERMOSTATS WITH ELEVATION ON ARCHITECTURAL DRAWINGS. VERIFY PROPER OPERATION IN FIELD.
14. NEW CEILING MOUNTED TOILET EXHAUST FANS (EF–3,4). FAN SHALL BE WIRED AND OPERATED THROUGH THE LIGHT SWITCH. COORDINATE WITH ELECTRICAL CONTRACTOR. PROVIDE 6" EXHAUST DUCT WITH BACKDRAFT DAMPER AND CONNECT TO 8" EXHAUST DUCT. ROUTE DUCTWORK THRU AREA ABOVE ROOF OVERHANG AND ROUTE THRU ROOF WITH RAIN CAP AS SHOWN. DISCHARGE SHALL BE AT LEAST 10'–0" AWAY FROM ANY OUTSIDE AIR INTAKES. FIELD VERIFY LOCATION. REFER TO EXHAUST FAN SCHEDULE ON THIS SHEET AND TOILET EXHAUST FAN DETAIL 6/M2.1 FOR INFORMATION.
15. DOOR TO BE UNDERCUT FOR MAKE–UP AIR.
16. PROVIDE ROOFTOP UNITS (RTU–1,2) AS SCHEDULED AND SPECIFIED. VERIFY LOCATION WITH LANDLORD PRIOR TO ANY WORK. ROUTE CONDENSATE PIPING TO DRAIN INDIRECTLY INTO MOP SINK.
17. SUPPLY AIR DIFFUSER CFM SHALL BE ADJUSTED AS REQUIRED FOR PROPER AIR FLOW AROUND THE HOOD.
18. PROVIDE NEW SMOKE DETECTOR IN RETURN DUCT TO MEET CODE REQUIREMENTS. CONNECT INTO FIRE ALARM SYSTEM.
19. ANSUL SYSTEM PULL STATION, VERIFY EXACT LOCATION IN FIELD WITH LOCAL CODE OFFICIAL PRIOR TO INSTALLATION.
20. PROVIDE WIRED REMOTE TEMPERATURE SENSOR AND CONNECT TO THERMOSTAT FOR RTU. MOUNT ON WALL AT 48" AFF. VERIFY LOCATION AND HEIGHT WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLING. PROVIDE INSULATED BASE FOR SENSORS ON EXTERIOR WALLS. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. THERMOSTAT IS NOT TO BE UTILIZED AS SENSOR.
21. TERMINATE OPEN END OF DUCT WITH WIREMESH SCREEN.

RTU–1,2

(NOTE: ST=SPACE TEMPERATURE)

1. UNOCCUPIED MODE:
   A. SETPOINT: HEATING 55°F/COOLING 85°F/HUMIDITY 55%
   B. OUTSIDE AIR DAMPER: CLOSED
   C. SUPPLY FAN: NORMALLY OFF, OPERATES ONLY ON THERMOSTAT CALL FOR HEATING OR COOLING.
   D. HEATING MODE: ENERGIZES WHEN ST < SETPOINT–3°F
   E. COOLING MODE: ENERGIZES WHEN ST > SETPOINT+3°F, RA HUMIDITY > HUMIDITY SET POINT
   F. R.A. SMOKE DETECTOR/NORMAL MODE: NO ACTION
   G. R.A. SMOKE DETECTOR/ALARM MODE: SUPPLY FAN SHUT DOWN, RTU OFF.
   H. INTEGRATED AIR ECONOMIZER: ENABLED AT 65°F OUTDOOR AIR TEMPERATURE.
   I. RELIEF AIR: BAROMETRIC RELIEF VIA RTU WITH POWER EXHAUST.
   J. RTU ECONOMIZER OA/RA DAMPERS CONTROLLED BY BUILDING PRESSURIZATION SENSOR. FAN MAINTAINS BUILDING PRESSURIZATION BETWEEN 0.05" TO 0.08" ABOVE AMBIENT.
   K. HOT GAS REHEAT (HGR): IF R.A. HUMIDITY > HGR SETPOINT & NO DEMAND FOR COOLING, HGR ENERGIZES. SEE IOM FOR HGR SEQUENCE.
2. OCCUPIED MODE:
   A. SETPOINT: HEATING 68°F/COOLING 72°F/HUMIDITY 55%
   B. OUTSIDE AIR DAMPER: OPEN TO SCHEDULED CFM
      DEMAND CONTROL VENTILATION USING CO2: CO2 SENSOR CONTROLS OA DAMPER. WHEN SPACE CO2 IS BELOW 1100 PPM, OA AT MINIMUM POSITION. CO2 SENSOR MODULATES OA DAMPER / OA CFM TO MAINTAIN SPACE CO2 < 1100 PPM.
   C. SUPPLY FAN: RUNS CONTINUOUSLY.
   D. HEATING MODE: ENERGIZES WHEN ST < SETPOINT–3°F
   E. COOLING MODE: ENERGIZES WHEN ST > SETPOINT+3°F
   F. R.A. SMOKE DETECTOR/NORMAL MODE: NO ACTION
   G. R.A. SMOKE DETECTOR/ALARM MODE: SUPPLY FAN SHUT DOWN, RTU OFF.
   H. INTEGRATED AIR ECONOMIZER: ENABLED AT 65°F OUTDOOR AIR TEMPERATURE.
   I. RELIEF AIR: BAROMETRIC RELIEF VIA RTU WITH POWER EXHAUST.
   J. RTU ECONOMIZER OA/RA DAMPERS CONTROLLED BY BUILDING PRESSURIZATION SENSOR. FAN MAINTAINS BUILDING PRESSURIZATION BETWEEN 0.05" TO 0.08" ABOVE AMBIENT.
   K. HOT GAS REHEAT (HGR): IF R.A. HUMIDITY > HGR SETPOINT & NO DEMAND FOR COOLING, HGR ENERGIZES. SEE IOM FOR HGR SEQUENCE.

*PRIOR TO PROGRAMMING, COORDINATE WITH OWNER TIME OF DAY SCHEDULES AND SPACE SETPOINT TEMPERATURES. MECHANICAL CONTRACTOR SHALL TRAIN OWNER IN THERMOSTAT CONTROLS.

GAS HEATING MUA–KITCHEN EF – EQUIPMENT
SEQUENCE OF OPERATIONS

MAU–1/EF–1,2/RTU–1,2
(KITCHEN TYPE–1 HOOD VENTILATION SYSTEM)

1. (MODE) COOKING APPLIANCE(S) BELOW HOOD ACTIVATES:
   A. RTU–1,2 AND EF–1,2 ARE INTERLOCKED AND AUTOMATICALLY ENERGIZE.
   B. RTU–1,2 IS ENERGIZED IN OCCUPIED MODE.
2. (MODE) HOOD FIRE SUPPRESSION SYSTEM ACTIVATES:
   A. RTU–1,2 SHUTS DOWN.
   B. EF–1,2 RUNS CONTINUOUSLY.
   C. APPLIANCE GAS VALVE AUTOMATICALLY CLOSES.
   D. APPLIANCE ELECTRICAL POWER SHUTS OFF.
3. (MODE) COOKING APPLIANCE(S) BELOW HOOD DE–ACTIVATE:
   A. EF–1,2, RTU–1,2 SHUTS DOWN.
   B. RTU–1,2 MAY CONTINUE IN OCCUPIED MODE OR ENTER UNOCCUPIED MODE.
   C. APPLIANCE GAS VALVE AUTOMATICALLY CLOSES.
   D. APPLIANCE ELECTRICAL POWER SHUTS OFF.

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MATTHEW R. CASE
NUMBER PE-2017000282
PROFESSIONAL ENGINEER
10/07/2026

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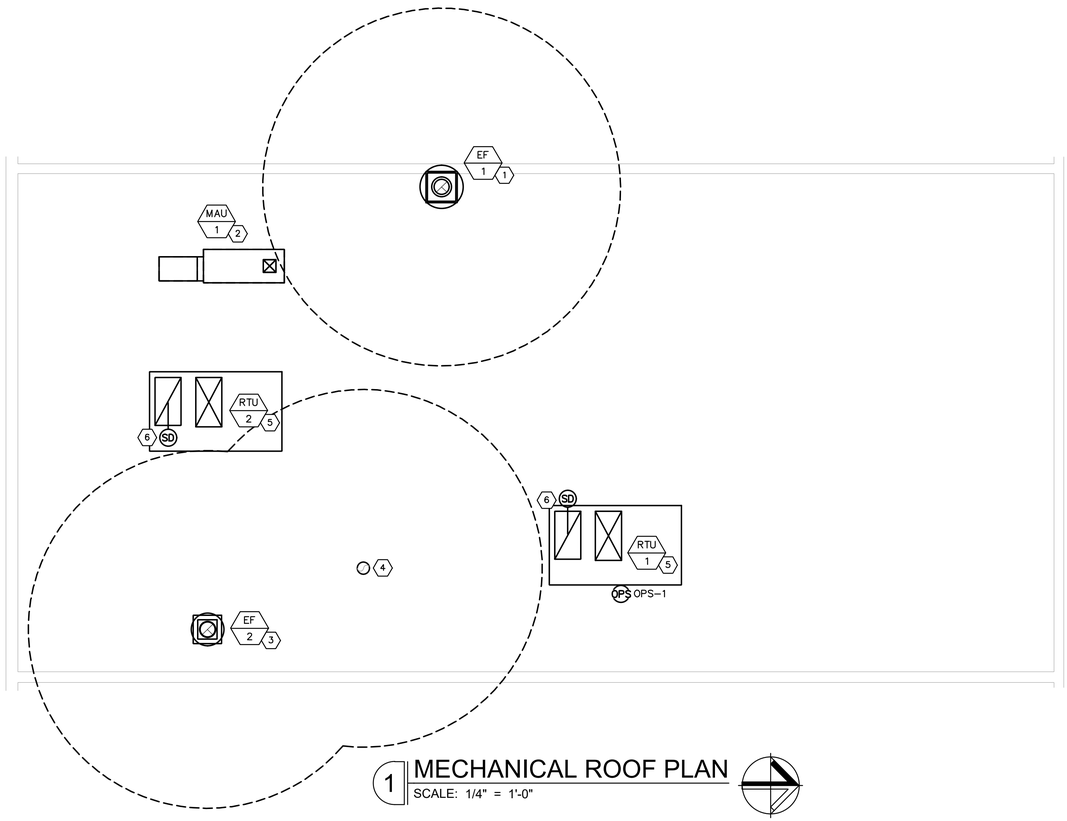
Client Approval

Mechanical Plan

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1 MECHANICAL ROOF PLAN
SCALE: 1/4" = 1'-0"

HVAC & SPRINKLER KEYED NOTES

1. NEW EXHAUST FAN (EF-1) FOR TYPE I GRIDDLE HOOD. REFER TO HOOD DRAWINGS FOR INFORMATION. LOCATE ON ROOF AND ROUTE EXHAUST DUCT THROUGH SIDE WALL. MAINTAIN MINIMUM 10'-0" HORIZONTAL DISTANCE BETWEEN EXHAUST FAN AND OUTSIDE AIR INTAKES.
2. NEW MAKEUP AIR FAN (MAU-1) ON ROOF FOR PERFORATED SUPPLY PLENUM AT TYPE I GRIDDLE HOOD. REFER TO HOOD DRAWINGS FOR INFORMATION. VERIFY LOCATION ON ROOF WITH LANDLORD REP.
3. NEW EXHAUST FAN (EF-2) FOR TYPE II BREAD OVEN HOOD. REFER TO HOOD DRAWINGS FOR INFORMATION. LOCATE ON ROOF IN FRONT OF TENANT'S SPACE. MAINTAIN MINIMUM 10'-0" HORIZONTAL DISTANCE BETWEEN EXHAUST FAN AND OUTSIDE AIR INTAKES.
4. NEW CEILING MOUNTED TOILET EXHAUST FANS (EF-3,4). FAN SHALL BE WIRED AND OPERATED THROUGH THE LIGHT SWITCH. COORDINATE WITH ELECTRICAL CONTRACTOR. PROVIDE 6" EXHAUST DUCT WITH BACKDRAFT DAMPER AND CONNECT TO 8" EXHAUST DUCT. ROUTE DUCTWORK THRU AREA ABOVE ROOF OVERHANG AND ROUTE THRU ROOF WITH RAIN CAP AS SHOWN. DISCHARGE SHALL BE AT LEAST 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKES. FIELD VERIFY LOCATION. REFER TO EXHAUST FAN SCHEDULE ON THIS SHEET AND TOILET EXHAUST FAN DETAIL 6/M2.1 FOR INFORMATION.
5. PROVIDE ROOFTOP UNITS (RTU-1,2) AS SCHEDULED AND SPECIFIED. VERIFY LOCATION WITH LANDLORD PRIOR TO ANY WORK. ROUTE CONDENSATE PIPING TO DRAIN INDIRECTLY INTO MOP SINK.
6. PROVIDE NEW SMOKE DETECTOR IN RETURN DUCT TO MEET CODE REQUIREMENTS. CONNECT INTO FIRE ALARM SYSTEM.

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STATE OF MISSOURI
MATTHEW R. CASE
NUMBER PE-2017000282
PROFESSIONAL ENGINEER

10/07/2026

FOR PERMIT

Client Approval

Mechanical Roof Plan

Project #	43426-MO01
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Scale	As indicated
Drawn by	ATP
Checked by	JST

M1.1

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DIVISION - 15 MECHANICAL SPECIFICATIONS

GENERAL

A. THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, ALONG WITH ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL FORM A PART OF THIS SECTION OF THE SPECIFICATIONS.

B. REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE SPECIFICATIONS, WHICH SHALL BE CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS SECTION.

SCOPE

EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DETAILS, BOTH AS ON TENANT CONSTRUCTION DRAWINGS AND LANDLORD'S AS REFERRED TO, BEFORE SUBMITTING HIS BID AS NO ALLOWANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. ALL PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION.

INSPECTION OF SITE

ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOB SITE CONDITIONS AND UTILITY LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

PERMITS

ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR INVOLVED.

CODE REQUIREMENTS

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS OR AS DIRECTED BY THE OWNER, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, WHETHER SO SHOWN OR NOT, AND ALL MODIFICATIONS REQUIRED BY SUCH AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.

MATERIALS AND WORKMANSHIP

A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHERWISE SPECIFIED SHALL BE NEW, AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.

B. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COMPLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES, DO NOT JUST ABANDON.

CODES AND REGULATIONS

EACH SUBCONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN OR SPECIFIED. IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE TENANT IN WRITING. IF ANY SUBCONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, THE SUBCONTRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

PROTECTION OF WORK AND PROPERTY

A. EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE, INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT TO HIS FAULT OR NEGLIGENCE. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL.

B. EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSURANCE REQUIRED TO PROTECT HIMSELF, OWNER AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

CHANGES IN THE WORK

THE TENANT, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK, THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY.

COOPERATION

ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CONJUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS. REFERENCE SHALL BE MADE TO THE OWNER FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE.

SUBSTITUTION OF MATERIALS

MANUFACTURER'S NAMES ARE LISTED HEREIN TO ESTABLISH A STANDARD. THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE, IF IN THE OPINION OF THE TENANT, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED.

SHOP DRAWINGS

SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

DRAWINGS AND SPECIFICATIONS

A. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.

B. SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON CONTRACT DRAWINGS, THE SHOP DRAWINGS, DESCRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

RESPONSIBILITY

A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN HIS CONTRACT. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PROVIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED.

B. CONTRACTOR SHALL SUPPLY TO LANDLORD AND TENANT A CERTIFIED BALANCE REPORT AT COMPLETION OF PROJECT. THIS IS REQUIRED FOR BOTH REMODELED AND NEW STORES.

HEATING, VENTILATING AND AIR CONDITIONING

GENERAL

A. THE WORK COVERED BY THIS SECTION OF THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE RESPECTIVE DRAWINGS, INFORMATION, OR INSTRUCTIONS TO BIDDERS, AND THE GENERAL CONDITIONS, ADDENDA, OR DIRECTIVES WHICH MAY BE ISSUED BY THE OWNER, HEREWITH, OR OTHERWISE, SHALL BE COMPLIED WITH IN EVERY RESPECT.

B. THE LISTING HEREIN OF AN ARTICLE OR MATERIAL, OPERATION OR METHOD, REQUIRES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL EACH ITEM LISTED, UNLESS SPECIFICALLY NOTED TO THE CONTRARY. THE CONTRACTOR SHALL PERFORM EACH OPERATION PRESCRIBED OR LISTED ACCORDING TO THE CONDITIONS STATED.

EXAMINATION OF SITE

ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST EXAMINE THE SITE AND ALL CONDITIONS THEREON AND/OR THEREIN. ALL PROPOSALS SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER THIS CONTRACT.

SCOPE

FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR A COMPLETE FULLY OPERATIVE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM EXCEPT AS SPECIFICALLY EXCLUDED BY THE DRAWINGS, AND/OR TENANT'S DIRECTIONS.

EQUIPMENT

A. ALL SINGLE STAGE UNITS WILL BE EQUIPPED WITH PROGRAMMABLE THERMOSTAT.
DESIGN AND STANDARD CONDITIONS FOR THERMOSTAT OPERATION WILL BE AS FOLLOWS:

COOLING: 75°F MAXIMUM OCCUPIED COOLING TEMPERATURE
85°F COOLING NIGHT SETBACK.

HEATING: 70°F MAXIMUM OCCUPIED HEATING TEMPERATURE
60°F HEATING NIGHT SETBACK.

FAN: CONTINUOUS IN OCCUPIED AND RECOVERY MODE AND WITH HEATING OR COOLING EQUIPMENT IN UNOCCUPIED MODE.

DEADBAND: CAPABLE OF MAINTAINING A 5°F DEADBAND.

CLOCK: 7 DAY CAPABLE OF 7 DIFFERENT DAY SCHEDULES.

OVERNIGHT: HAVE A 2 HOUR OVERRIDE ACCESSIBLE TO MANAGER.

BACKUP: CAPABLE OF MAINTAINING PROGRAMMED SETTING FOR AT LEAST 10 HOURS WITHOUT POWER.

B. THE HVAC SUBCONTRACTOR SHALL IDENTIFY ALL ROOF MOUNTED HVAC EQUIPMENT AND APPARATUS WITH 2" HIGH PAINTED STENCILED STORE NAME ON ALL SIDES OF EQUIPMENT.

DUCTWORK

A. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED OF NEW GALVANIZED PRIME GRADE SHEET STEEL OF THE FOLLOWING GAUGES:

DUCT SIZE	GAUGE
12" AND LESS	NO. 26 U.S. GAUGE
13" TO 30"	NO. 24 U.S. GAUGE
31" TO 54"	NO. 22 U.S. GAUGE
55" TO 84"	NO. 20 U.S. GAUGE
85" AND OVER	NO. 18 U.S. GAUGE

B. SQUARE AND RECTANGULAR DUCTWORK SHALL BE CONSTRUCTED AS FOLLOWS:

SIZE	METHOD
17" AND LESS	"S" AND DRIVE CLEATS
18" TO 30"	"L" STANDING SEAMS ON 3'-0" CENTERS
31" TO 54"	1-1/4" STANDING SEAMS ON 3'-0" CENTERS

GREASE DUCTS SHALL BE BLACK CARBON STEEL NOT LESS THAN 0.054" (16 GA.). ALL SEAMS, JOINTS, AND PENETRATIONS SHALL HAVE A LIQUID TIGHT, CONTINUOUS, EXTERNAL WELD.

1. THE KITCHEN HOOD EXHAUST DUCTWORK SHALL BE ENCLOSED IN A RATED ENCLOSURE PER CODE.

2. THE CONTRACTOR SHALL INCLUDE IN HIS PRICE:
–ALL NECESSARY TRANSITION AND CONNECTION FITTINGS TO THE HOOD AND EXHAUST FANS.
– ALL CLEAN–OUT ACCESS PANELS AS REQUIRED BY CODE.
– ALL ELBOW AND TRANSITION FITTINGS.
– ALL HANGERS AND SUPPORTS.
–SHOP DRAWINGS SHOWING PROPOSED FABRICATION AND INSTALLATION COORDINATED WITH EXISTING FIELD CONDITIONS AND OTHER TRADES.

ROUND LOW PRESSURE DUCTS SHALL BE SPIRAL WOUND AS MANUFACTURED BY UNITED SHEET METAL COMPANY OR SHOP FABRICATED ROUND DUCTS WITH PITTSBURGH LOCK LONGITUDINAL SEAMS. GAUGES FOR SHOP FABRICATED DUCTS SHALL BE AS FOLLOWS:

UP TO 12" IN DIAMETER	NO. 26 GAUGE
13" TO 30"	NO. 24 GAUGE
31" TO 42"	NO. 22 GAUGE
43" TO 60"	NO. 20 GAUGE

ELBOWS SHALL HAVE A CENTERLINE RADIUS OF 1–1/2 TIMES DUCT DIAMETER AND MAY BE SMOOTH ELBOWS OR 5 PIECE 90 DEGREE ELBOWS AND 3 PIECE 45 DEGREE ELBOWS. JOINTS OF ROUND DUCTS SHALL BE SLIP TYPE WITH A MINIMUM OF 3 SHEET METAL SCREWS.

1. ALL EXPOSED ROUND LOW PRESSURE DUCTWORK SHALL BE INTERNALLY LINED.
2. ALL LOW PRESSURE DUCTWORK SHALL BE EXTERNALLY SEALED USING UNITED SHEET METAL, MMM EC–800, OR HARDCAST DUCT SEALER INSTALLED IN THE JOINTS PRIOR TO CLOSURE. ADDITIONALLY SEAL ALL EXTERNAL TRANSVERSE JOINTS AND FITTING CONNECTIONS EXTERNALLY.

C. ALL SUPPLY AIR DUCTS (HEATING AND COOLING) AND RETURN AIR DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED STEEL WITH MIN. 1" (R–5) THICK EXTERNAL THERMAL INSULATION EXCEPT DUCT LINED FOR ACOUSTICAL PURPOSES. ALL EXHAUST AND RELIEF AIR DUCTS SHALL BE GALVANIZED STEEL.

D. CONTRACTOR WILL INSTALL INSECT SCREENS ON ALL DUCT OPENINGS WHICH LEAD TO OR ARE OUTDOORS. INSECT SCREENS SHALL BE 10 GAUGE, ONE–HALF INCH (1/2") MESH IN REMOVABLE GALVANIZED STEEL FRAMES.

E. ALL DUCTWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN THE AMERICAN SOCIETY OF HEATING REFRIGERATION AND AIR CONDITIONING ENGINEERS GUIDE (ASHRAE) AND FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST METHODS RECOMMENDED IN THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) LOW VELOCITY DUCT MANUAL, LATEST EDITION.

HANGERS AND SUPPORTS

A. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND LESS SHALL BE SUPPORTED BY MEANS OF BAND IRON HANGERS OF NO. 18 U.S. GAUGE ATTACHED TO THE DUCT BY MEANS OF RIVETS, SCREWS, OR CLAMPS, AND FASTENED TO STRUCTURE ABOVE BY TOGGLE BOLTS OR OTHER MEANS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS. VERTICAL DUCTS SHALL BE SUPPORTED WITH 1–1/4" x 1–1/4" x 1–1/4" ANGLES WHERE THEY PASS THROUGH THE FLOOR LINES.

B. ALL HORIZONTAL DUCTS HAVING A DIMENSION OF 40 INCHES AND MORE SHALL BE SUPPORTED BY MEANS OF ANGLE IRON TRAPEZE HANGERS. EACH SECTION OF DUCTWORK SHALL HAVE AT LEAST ONE PAIR OF SUPPORTS.

FLASHING

A. CONTRACTOR WILL PROVIDE WATER TIGHT 24 GA. SHEET METAL FLASHINGS AT ALL EXTERIOR WALLS AND ROOF PENETRATIONS.

B. ALL CUTTING OF ROOF OPENINGS, SUPPORTS FOR ROOF OPENINGS, PITCH PANS, ROOF CURBS, FLASHINGS, COUNTER FLASHINGS, REPAIR TO ROOF, ETC. ASSOCIATED WITH HVAC SUBCONTRACTOR SHALL BE THE RESPONSIBILITY AND PART OF THE CONTRACT HVAC SUB–CONTRACTOR. HE SHALL EMPLOY THE LANDLORD'S ROOFERS FOR THIS WORK SO AS TO MAINTAIN THE ROOF BOND.

DAMPERS

A. SPLITTER DAMPERS SHALL BE FABRICATED OF SHEET STEEL NOT LESS THAN NO. 16 U.S. GAUGE WITH THE LEADING EDGE HEMMED. EACH DAMPER SHALL BE LARGE ENOUGH TO COVER THE SMALLER OF THE TWO OPENINGS IT CONTROLS. DAMPERS SHALL BE CONTROLLED AS FOLLOWS:

EXPOSED OR ACCESSIBLE DUCTWORK – LOCKING QUADRANTS EQUAL TO YOUNG REGULATOR NO. 1 WITH DAMPER ROD END BEARINGS ON OPPOSITE END.

CONCEALED DUCTWORK – LOCKING QUADRANT EQUAL TO YOUNG REGULATOR NO. 315 (CHROMIUM PLATED WITH DAMPER ROD END BEARINGS ON BOTH ENDS).

B. VOLUME DAMPERS SHALL BE OF THE OPPOSED INTERLOCKING TYPE AS MANUFACTURED BY AMERICAN FOUNDRY AND FURNACES CO. (AFFCO) OR EQUAL. BLADES SHALL BE OF NO. 16 GAUGE SHEET METAL AND SHALL NOT EXCEED 48" IN LENGTH OR 12" IN WIDTH. BLADES SHALL BE ON ONE–HALF INCH (1/2") DIAMETER RUSTPROOF AXLE. BEARINGS SHALL BE OF THE SELF–LUBRICATING FERRULE TYPE.

C. FIRE DAMPERS SHALL BE SUPPLIED AND INSTALLED BY HVAC CONTRACTOR AT DUCT PENETRATIONS IN FIRE RATED WALLS, CEILINGS, AND ROOFS AS REQUIRED. COORDINATE WITH LANDLORD, LOCAL FIRE MARSHALL AND ALL CODES AND GOVERNING AUTHORITIES HAVING JURISDICTION.

D. JOB FABRICATED TURNING VANES SHALL BE ACCEPTABLE IN SQUARE ELBOWS. PROVIDE AND INSTALL BARBER–COLEMAN AIR TURNS OR EQUAL. TURNING VANES SHALL BE OF THE SAME GAUGE METAL AS THE DUCT IN WHICH THEY ARE INSTALLED. RADIUS ELBOWS SHALL HAVE A CENTER–LINE RADIUS OF ONE AND ONE–HALF (1–1/2) TIMES THE DUCT WIDTH.

DUCTWORK - EXCEPTIONS

DUCTWORK FOR EXHAUSTING AIR OR OUTSIDE SUPPLY AIR SHALL BE ALL METAL AND CONSTRUCTED ACCORDING TO RECOMMENDED PRACTICES AS FOUND IN THE LATEST ISSUE OF ASHRAE.

SUPPORT OF DUCT SYSTEM

HANGER DESIGN SHALL BE AS DESCRIBED IN THE LATEST EDITION OF THE "SMACNA" MANUAL. REINFORCEMENT MEMBERS MAY BE USED TO SUPPORT DUCT SYSTEM PROVIDED DETAILS OUTLINED IN THE AFOREMENTIONED MANUAL ARE ADHERED TO.

DUCTS SHALL BE SUPPORTED AT ALL TURNS AND TRANSITIONS AND NOT MORE THAN 8'–0" O.C. STRAIGHT DUCTS UP TO 59" MAX. DIMENSIONS SHALL BE SUPPORTED 6'–0" O.C. DUCTS OVER 60" MAX. DIMENSIONS SHALL BE SUPPORTED AT 4'–0" O.C.

REINFORCEMENT

ALL DUCTS REQUIRING REINFORCEMENT SHALL BE REINFORCED ACCORDING TO THE LATEST EDITION OF "SMACNA" MANUAL.

MATERIALS FOR REINFORCEMENT MEMBERS SHALL BE GALVANIZED STEEL. ALL SCREWS AND WASHERS SHALL BE PLATED OR GALVANIZED.

ACCESSORY ITEMS

ALL MANUAL DAMPERS, FIRE DAMPERS, TURNING VANES, REGISTER CONNECTIONS, ACCESS DOORS OR OTHER ASSOCIATED ACCESSORIES SHALL BE INSTALLED ACCORDING TO THE LATEST PUBLICATION OF "SMACNA" MANUAL.

TESTING AND ADJUSTING

CONTRACTOR WILL DEMONSTRATE OPERATION OF SYSTEM TO FULL SATISFACTION OF TENANT, WILL BALANCE AIR FLOW IN ACCORDANCE WITH AIR QUANTITIES ON DRAWINGS AND WILL RECORD VOLUME READINGS IN ACCORDANCE WITH ASHRAE AND PROVIDE SAME TO TENANT. ALL PIPING SHALL WITHSTAND AIR PRESSURE TESTING PER GOVERNING PLUMBING CODE.

A. AIR DISTRIBUTION SYSTEMS:
1. INSPECT INSTALLATION AND VERIFY CONFORMITY TO DESIGN. VERIFY THAT SUPPLY, RETURN, AND EXHAUST DUCTS HAVE BEEN PRESSURE–TESTED FOR LEAKAGE AS RECOMMENDED IN THE APPROPRIATE SMACNA STANDARDS.
2. VERIFY THAT VOLUME AND FIRE DAMPERS ARE PROPERLY LOCATED AND FUNCTIONAL.
3. VERIFY THAT SUPPLY, RETURN, EXHAUST AND TRANSFER GRILLES, REGISTERS AND DIFFUSERS ARE INSTALLED AND OPERATING PROPERLY.

B. VERIFY THAT CONTROL COMPONENTS ARE INSTALLED IN ACCORDANCE WITH PROJECT REQUIREMENTS AND ARE FUNCTIONING AS INTENDED, INCLUDING ELECTRICAL POWER, CONTROL AND INTERLOCK WIRING, DAMPER SEQUENCES, SMOKE DETECTORS, ETC.

C. UPON COMPLETION OF THE INSTALLATION AND START–UP OF THE MECHANICAL EQUIPMENT, TEST, ADJUST AND BALANCE SYSTEM COMPONENTS TO OBTAIN OPTIMUM CONDITIONS IN EACH CONDITIONED SPACE IN THE BUILDING.

D. BEFORE FINAL ACCEPTANCE IS MADE, FURNISH TO THE ARCHITECT THE FOLLOWING DATA:
1. SUMMARY OF MAIN SUPPLY, RETURN AND EXHAUST DUCT PILOT TUBE TRANSVERSES AND FAN SETTINGS.
2. AIR QUANTITIES AT EACH SUPPLY, RETURN, RELIEF AND EXHAUST AIR HANDLING DEVICE.
3. AIR PRESSURE READINGS ENTERING AND LEAVING EACH SUPPLY FAN AND EXHAUST FAN.
4. MOTOR CURRENT AND VOLTAGE READINGS AT EACH EQUIPMENT MOTOR.
5. TEST RESULTS SHALL BE RECORDED ON STANDARD FORMS CONFORMING TO AABC AND NEBB REQUIREMENTS. THE REPORT SHALL INCLUDE AIR FLOW SCHEMATIC DIAGRAMS INDICATING AND IDENTIFYING TEST LOCATIONS SUCH AS DUCT TRANSVERSE, OUTLET READINGS, PRESSURE READINGS AND TEMPERATURE READINGS, AND SHALL BE REFERENCED TO THE RECORDED DATA ON THE FORMS.

E. MAKE AN INSPECTION IN THE BUILDING DURING THE OPPOSITE SEASON FROM THAT IN WHICH THE INITIAL ADJUSTMENTS WERE MADE, AND AT THAT TIME MAKE ANY NECESSARY MODIFICATIONS TO THE INITIAL ADJUSTMENTS REQUIRED TO PRODUCE OPTIMUM OPERATION OF THE SYSTEM COMPONENTS, TO PRODUCE THE PROPER CONDITIONS IN EACH SPACE.

F. INSTRUCTION: THE CONTRACTOR SHALL INSTRUCT THE BUILDING OPERATING PERSONNEL IN THE CONSTRUCTION AND OPERATION OF ALL EQUIPMENT.

GUARANTEE

ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY TENANT SHALL BE A CONDITION OF THIS CONTRACT. ALL WORK FOUND TO BE DEFECTIVE SHALL BE REPAIRED OR REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE TENANT.

MECHANICAL

TEMPORARY SERVICES

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SPECIFIC ITEMS OF TEMPORARY SERVICES:

A. TELEPHONE – THE TENANT'S GENERAL CONTRACTOR SHALL INSTALL A JOB SITE TELEPHONE AND NOTIFY TENANT AS LISTED ON SHEET A–1 OF THE TELEPHONE NUMBER AND THE NAME OF THE SUPERINTENDENT.

B. TEMPORARY WATER – WATER REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR. WATER USED FOR HUMAN CONSUMPTION SHALL CONFORM TO REQUIREMENTS OF STATE AND LOCAL AUTHORITIES FOR POTABLE WATER.

C. TEMPORARY ELECTRICITY – TEMPORARY ELECTRIC SERVICE REQUIRED IN THE PERFORMANCE OF THE CONTRACT SHALL BE FURNISHED AND PAID FOR BY THE CONTRACTOR WHO SHALL FURNISH, INSTALL, AND MAINTAIN ALL TEMPORARY OVERHEAD CONSTRUCTION, METERS, DROPS, AND OTHER WIRING AND FITTINGS FOR BOTH LIGHT AND POWER AT LOCATIONS REQUIRED IN THE WORK AND SHALL BEAR THE COST OF MAKING THE SERVICE CONNECTIONS. BEFORE FINAL ACCEPTANCE, TEMPORARY ELECTRICAL SERVICE FACILITIES INSTALLED BY THE CONTRACTOR SHALL BE REMOVED AND THE SERVICE CONNECTIONS SEVERED IN ACCEPTABLE MANNER.

D. TEMPORARY HEAT – WHEN REQUIRED FOR PROPER INSTALLATION OR PROTECTION OF ANY PORTION OF THE WORK, THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY HEATING UNITS AS APPROVED BY THE LANDLORD OR LOCAL AUTHORITY.

E. COST OF LANDLORD PROVIDED UTILITY SERVICES – IF THE LANDLORD ELECTS TO PROVIDE TEMPORARY UTILITY SERVICES, THE CONTRACTOR WILL BE SO INFORMED BY THE TENANT. THE CONTRACTOR SHALL MAKE

TO PAY THE COST OF SAID TEMPORARY CONSTRUCTION AND UTILITY SERVICES.

NOTE FOR GENERAL CONTRACTOR:
IT IS THE RESPONSIBILITY OF THE TENANT'S GENERAL CONTRACTOR TO MAKE USE OF APPLICABLE NOTES AND SPECIFICATIONS LISTED ON THIS SHEET AS THEY MAY PERTAIN TO THE SPECIFIC JOB.

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STATE OF MISSOURI
MATTHEW R. CASE
NUMBER PE-2017000282
PROFESSIONAL ENGINEER
10/07/2026

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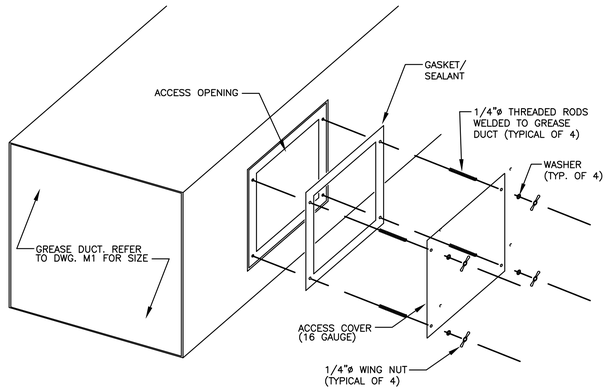
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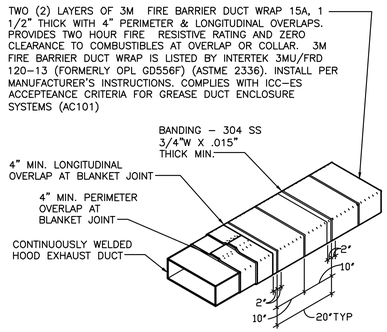
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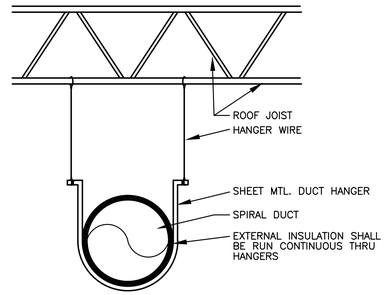
1 GREASE DUCT ACCESS PANEL DETAIL
SCALE: **NONE**

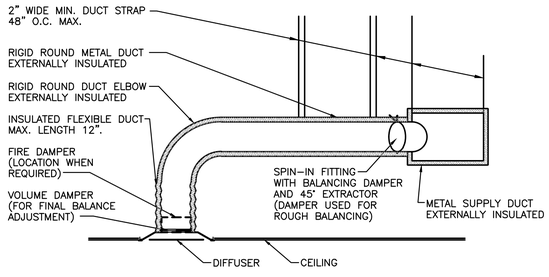


NOTES:
1. BANDING REQUIREMENTS: USE 304 STAINLESS STEEL BANDS A MAXIMUM 2" FROM BLANKET EDGE AND SPACED A MAXIMUM OF 10" ON CENTER.
2. WRAP GREASE DUCT CONTINUOUS AS SHOWN FROM CONNECTION AT FAN THROUGH CURB AND EXTEND 18" MIN. BELOW ROOF DECK.
3. FOR HORIZONTAL RUNS OF EXHAUST DUCTS PROVIDE TYPICAL TRAPEZE SUPPORT SYSTEM WITH 1/2" HANGER RODS A MAXIMUM OF 6" FROM INSULATION EDGE. TRAPEZE SUPPORTS SHALL BE SPACED A MAXIMUM OF 60" ON CENTER FROM CENTERLINE OF VERTICAL EXHAUST DUCT.
4. SLOPE HORIZONTAL EXHAUST DUCT RUNS A MINIMUM OF 1/4" PER FOOT (2% SLOPE) TOWARDS EXHAUST HOOD.
5. PROVIDE INSULATED ACCESS DOORS OR PANELS FOR CLEANING AND INSPECTION OF DUCT. PROVIDE AN APPROVED SIGN ON EACH ACCESS DOOR OR PANEL WHICH READS "ACCESS PANEL - DO NOT OBSTRUCT".

2 GREASE DUCT DETAIL
SCALE: **NONE**

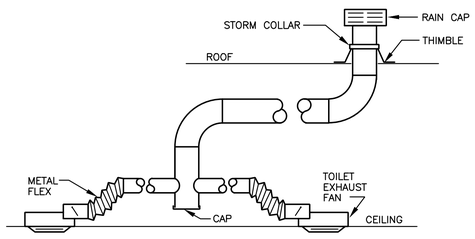
3 ROUND DUCT HANGER DETAIL
SCALE: **NONE**





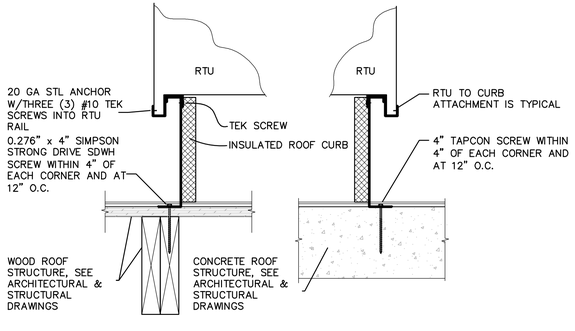
* REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR COMPONENT AND DEVICE SPECIFICATIONS.

4 HVAC DUCTWORK DETAIL
SCALE: **NONE**

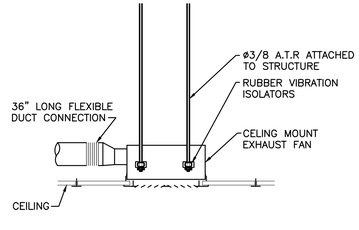


NOTES:)
1. SEE FLOOR PLAN FOR DUCT DIMENSIONS.
2. ELECTRICIAN TO WIRE FANS IN PARALLEL WITH RESTROOM LIGHT FIXTURES.

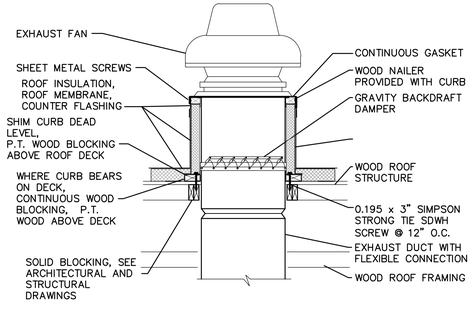
6 TOILET FAN EXHAUST DETAIL
SCALE: **NONE**



7 RTU CURB DETAIL
SCALE: **NONE**



8 TYPICAL CEILING EXHAUST FAN DETIAL
SCALE: **NONE**



9 ROOF MOUNTED EXHAUST FAN
SCALE: **NONE**

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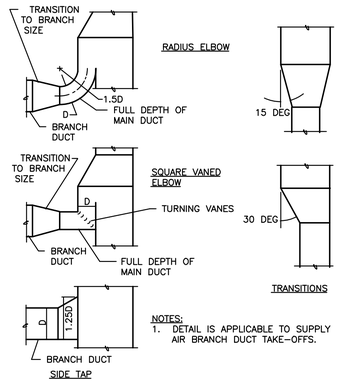
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Mechanical Details

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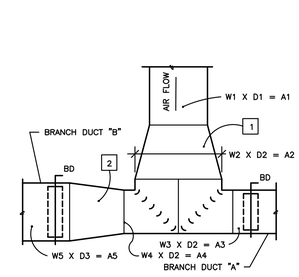
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NOTES:
1. DETAIL IS APPLICABLE TO SUPPLY AIR BRANCH DUCT TAKE–OFFS.

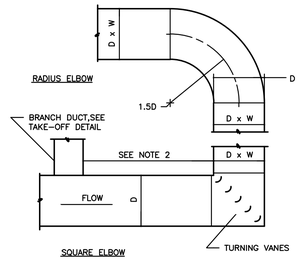
10 BRANCH DUCT DETAILS
SCALE: **NONE**



1 TRANSITION FROM W1 X D1 TO W2 X D2

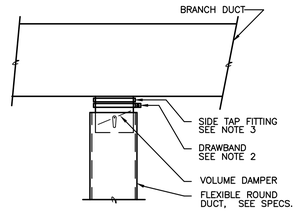
2 FOR UNEQUAL BRANCH DUCTS, TRANSITION TO BRANCH DUCT SIZE

11 DUCT TEE FITTING
SCALE: **NONE**



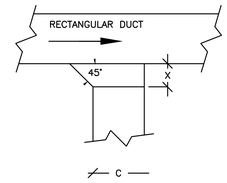
NOTES:
1. UNLESS SPECIFICALLY NOTED OTHERWISE, DETAIL APPLIES TO ALL SUPPLY, ALL EXHAUST, AND ALL RETURN AIR ELBOWS.
2. BRANCH DUCT TAKE–OFFS MUST BE A MINIMUM OF 4D DOWNSTREAM OF EITHER TYPE OF ELBOW, AND NOT LESS THAN 3D UPSTREAM.

12 DUCT ELBOW
SCALE: **NONE**



NOTES:
1. THIS DETAIL IS APPLICABLE FOR FLEXIBLE ROUND DUCT TAKE–OFFS FROM BRANCH DUCTS TO DIFFUSERS.
2. FLEXIBLE DUCT INSULATION SHALL TERMINATE AT SIDE OF BRANCH DUCT SO NO UNINSULATED METAL PARTS ARE EXPOSED.
3. SIDE TAP FITTING SHALL BE FLEX MASTER U.S.A, INC. OR APPROVED EQUAL, NUMBER FLD WITH DAMPER.

13 FLEXIBLE DUCT CONNECTION TO BRANCH
SCALE: **NONE**



C	X
3 THRU 8	3
9 THRU 16	6
17 THRU 24	9
25 AND UP	12

14 RECTANGULAR TAP DETAIL
SCALE: **NONE**

V = 4" ±1" FOR A = 3"–21"
V = 7" ±1" FOR A = 23" AND OVER

15 BELLMOUTH TAP DETAIL
SCALE: **NONE**

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PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION - JOB#8807641

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW	SWITCHES QUANTITY	LOCATION
1	GRIDDLE HOOD	5424 ND-2-PSP-F	CAPTIVEAIRE	5' 0"	450 DEG	I	MEDIUM	200	1000			4'	10"	1000	1833	-0.363"	750	430 SS WHERE EXPOSED	ALONE	ALONE		
2	BREAD OVEN HOOD	6024 VHB-ND	CAPTIVEAIRE	4' 0"	700 DEG	II	N/A	100	400			4'	10"	400	733	-0.040"	0	430 SS 100%	ALONE	ALONE	1 FAN	FRONT RIGHT FACE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	GRIDDLE HOOD	SS BAFFLE WITH HANDLES	3	16"	16"	30%	3	L55 SERIES E26	NO	RIGHT	12"x54"x24"	TANK FS	4.0	SC-111110MA	1 LIGHT 1 FAN	YES	567 LBS
2	BREAD OVEN HOOD						0									NO	219 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	GRIDDLE HOOD	FIELD WRAPPER 16.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00" HIGH X 36.00" LONG 430 SS VERTICAL.
		BACKSPLASH 80.00" HIGH X 36.00" LONG 430 SS VERTICAL.
		BACKSPLASH 80.00" HIGH X 36.00" LONG 430 SS VERTICAL.
		BACKSPLASH 42.00" HIGH X 36.00" LONG 430 SS HORIZONTAL.
		BACKSPLASH 42.00" HIGH X 36.00" LONG 430 SS HORIZONTAL.
		BACKSPLASH 42.00" HIGH X 36.00" LONG 430 SS HORIZONTAL.
		LEFT END STANDOFF (FINISHED) 1" WIDE 54" LONG INSULATED.
		RIGHT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		LEFT QUARTER END PANEL 23" TOP WIDTH, 0" BOTTOM WIDTH, 23" HIGH 430 SS.
		INSULATION FOR BACK OF HOOD.
		RISER SENSOR INSTALL 6IN PLEN.
2	BREAD OVEN HOOD	FIELD WRAPPER 12.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 84.00" HIGH X 48.00" LONG 430 SS VERTICAL.
		LEFT SIDESPLASH 84.00" HIGH X 60.00" LONG 430 SS VERTICAL.

PERFORATED SUPPLY PLENUM(S)

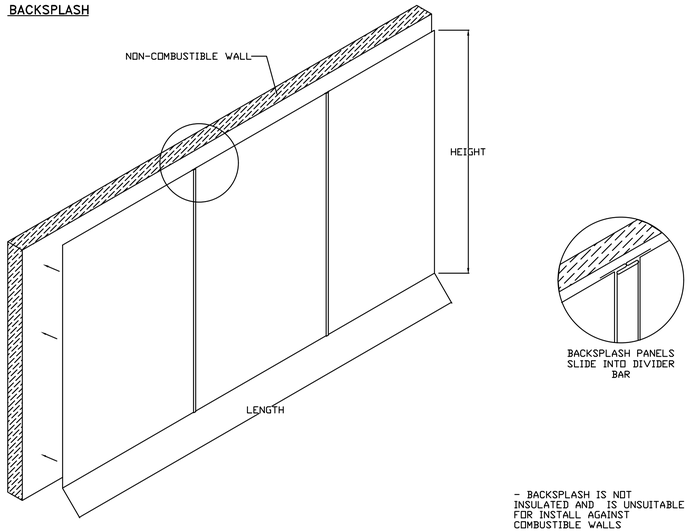
HOOD NO	TAG	PDS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1	GRIDDLE HOOD	Front	73"	12"	6"	MUA	10"	28"		750	0.204"

CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	0"
	LEFT	0"
	RIGHT	0"

- *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.

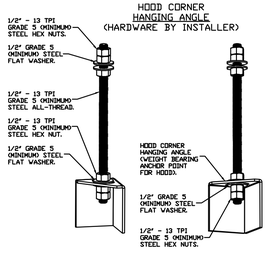
BACKSPLASH



BACKSPLASH PANELS SLIDE INTO DIVIDER BAR

- BACKSPLASH IS NOT INSULATED AND IS UNSUITABLE FOR INSTALL AGAINST COMBUSTIBLE WALLS

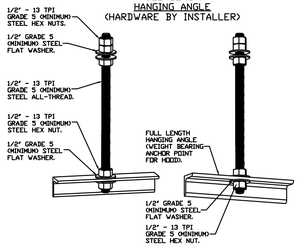
HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

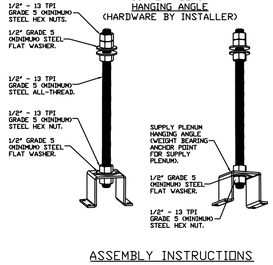
FULL LENGTH HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

SUPPLY PLENUM HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

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DATE: 7/28/2026

DWG.#: 8807641

DRAWN BY: ME- Reg32

SCALE: NTS

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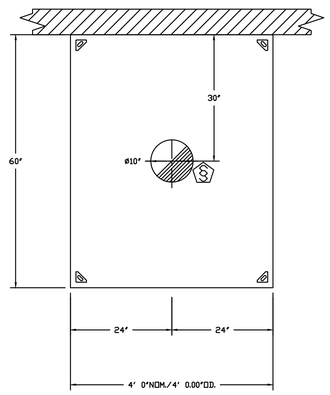
Client Approval

Hood Drawing

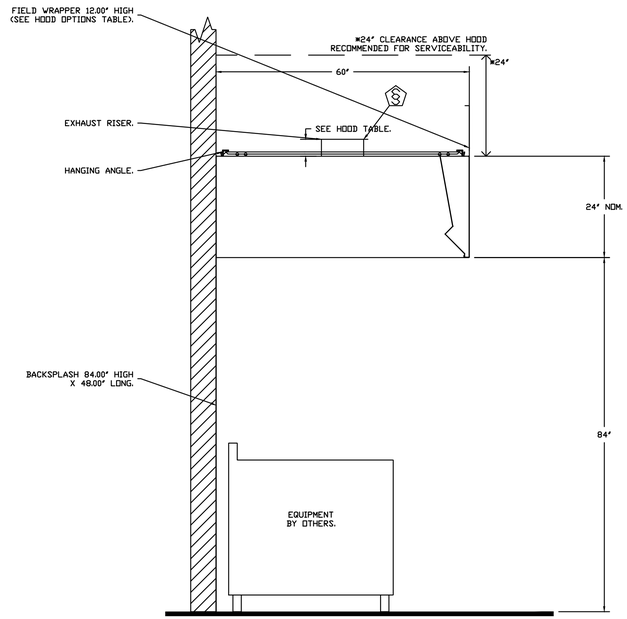
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PLAN VIEW – HOOD #2 (BREAD OVEN HOOD)
4' 0.00" LONG 6024VHB–ND



SECTION VIEW – MODEL 6024VHB–ND
HOOD – #2 (BREAD OVEN HOOD)

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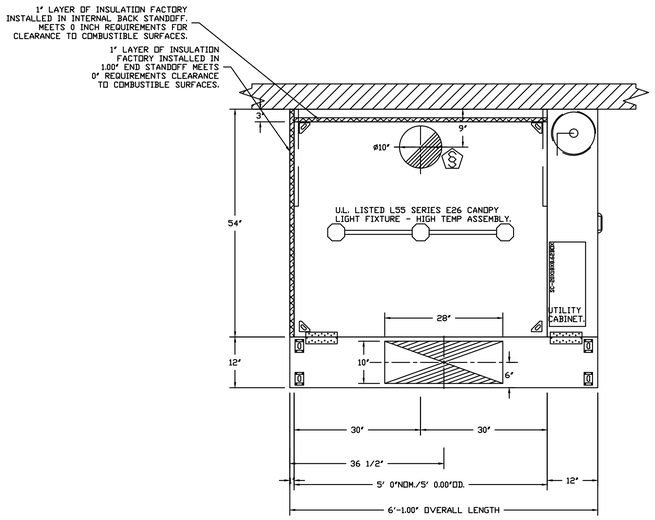
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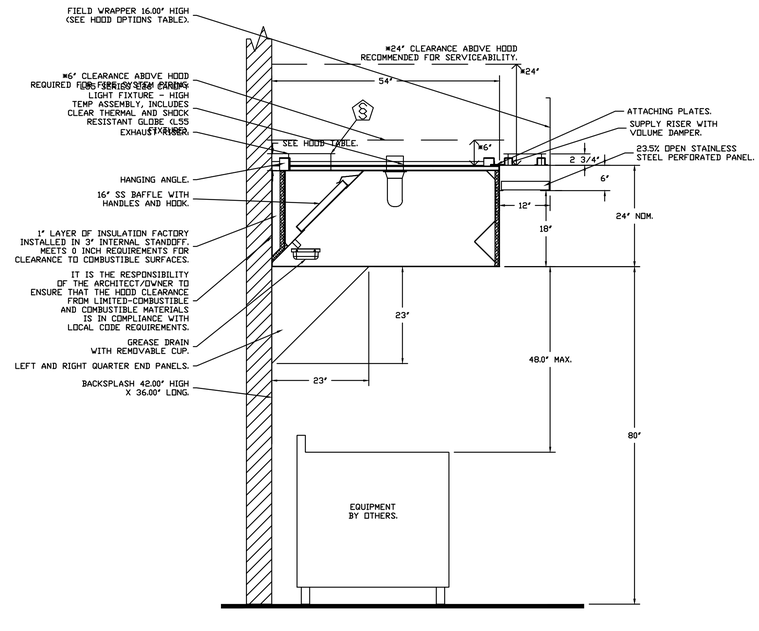
Hood Drawing

Project #	43426-MO01
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Checked by	JST

M3.2



PLAN VIEW – HOOD #1 (GRIDDLE HOOD)
5' 0.00" LONG 5424ND-2-PSP-F



SECTION VIEW – MODEL 5424ND-2-PSP-F
HOOD – #1 (GRIDDLE HOOD)

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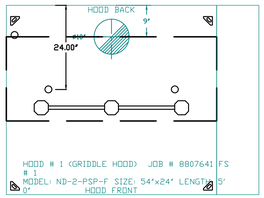
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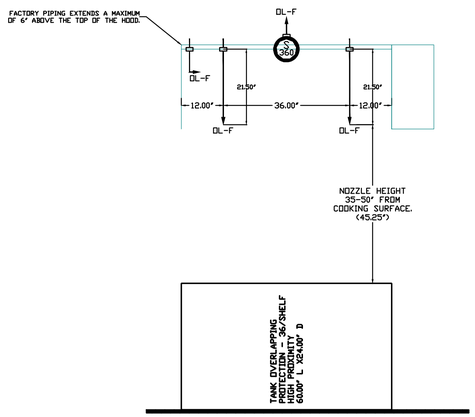
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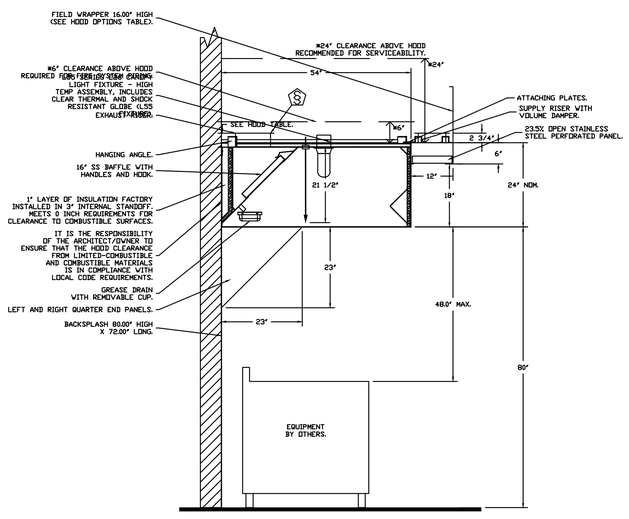
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SECTION VIEW – MODEL 5424ND-2-PSP-F
HOOD – #1

NOTES
- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 8807641.
JOB NAME: JERSEY MIKE'S SUBS - KANSAS CITY, MO.

SYSTEM SIZE: TANK-SP-1 DESIGN FP: 18. MAXIMUM FP: 20.
HOOD # 1 5' 0.00" LONG x 54" WIDE x 24" HIGH.
RISER # 1 SIZE: 10" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

LEGEND – FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.

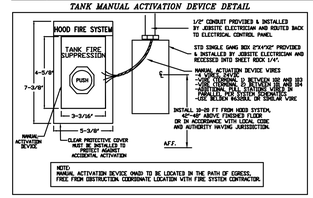
FIRE SYSTEM INFORMATION – JOB#8807641

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1	FS1	TANK FS	4.0	20	18	FIRE CABINET RIGHT	RIGHT, HOOD 1

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1	FS1	0 - 0 - 87-300033-001 - DIN CONNECTOR, CANFIELD PART #5J560-201-EUDA, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 303777).	1	0
		0 - 0 - 4429K153 - 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	1	0
		0 - 0 - 87-300152-001 - HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - 40034332 - JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - - 12-F28021-32144-DT-360 - DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. ND, CLOSE ON TEMP RISE AT 360°F. (A0034310).	1	0
		16 - 16 - OL-F - NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	4	0
		0 - 0 - 4429K422 - 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 - 0 - 9869A415 - HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - DATANKLOCK - DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - A31484 - 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0
		34 - 34 - A0034331 - RED COLOR - 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT.	1	0
		0 - 0 - TANK STRAP - TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	3	0
		0 - 0 - 32-00002 - QUIK SEAL - 1/2" (A).	1	0
		0 - 0 - - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - VK-283952-000 - DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300001-001 - TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 79580 - 1/2" X 1/2" PRO-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 - 0 - TFZ-UCTANKBRACKET - TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	1	0
		26 - 26 - QSA-3/8 - QUIK SEAL - 3/8" (U).	4	0
		0 - 0 - 87-300036-001 - PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 79525 - 1/2" 90 PRO-PRESS ELBOW WITH 1/2"NPT FEMALE CONNECTION, VIEGA.	1	0
		EGVAE - GAS VALVE - 2" ELECTRICAL SHUTOFF VALVE, 110V, 60HZ (A9B214B80). INCLUDES UPSTREAM STRAINER ASSEMBLY. GAS VALVE RESET RELAY ORDERED SEPARATELY UNDER PART NUMBER 426151.	1	0

TANK MANUAL ACTIVATION DEVICE DETAIL



NOTE:
MANUAL ACTIVATION DEVICE ONLY TO BE LOCATED IN THE PATH OF EGRESS, FREE FROM OBSTRUCTION. COORDINATE LOCATION WITH FIRE SYSTEM CONTRACTOR.

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KANSAS CITY, MO,

DATE: 7/28/2026
DWG.#: 8807641
DRAWN BY: ME- Reg32
SCALE: NTS
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CERTIFICATE OF AUTHORITY NO. 001498

JERSEY MIKES - KANSAS CITY
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MATTHEW R. CASE
NUMBER PE-2017000282
PROFESSIONAL ENGINEER
10/07/2026

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Hood Drawing

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EXHAUST FAN INFORMATION – JOB#8807641

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	GRIDDLE EF	1	DU50HFA	CAPTIVEAIRE	1000	1.000	1348	TEAO-ECM	0.500	0.3580	1	115	6.3	380 FPM	79	12.4
3	60" DEEP BREAD OVEN	1	DU12HFA	CAPTIVEAIRE	400	0.300	1487	TEAO-ECM	0.250	0.0960	1	115	3.2	284 FPM	48	8.4

MUA FAN INFORMATION – JOB#8807641

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2	MUA1	1	D76	G7D	D.6	600	750	0.400	1473	TEAO-ECM	1.000	0.2710	1	115	11.6	16.6A	25A	306	14.5

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
2	MUA1	49024	45102	59°F	7 IN. W.C. – 14 IN. W.C.	NATURAL

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	GRIDDLE EF	YES						
2	MUA1						YES	
3	60" DEEP BREAD OVEN		YES					

CURB ASSEMBLIES

NO	ON FAN	TAG	R-VALUE	WEIGHT	ITEM	SIZE
1	# 1	GRIDDLE EF		38 LBS	CURB	19.500"W X 19.500"L X 26.000"H VENTED HINGED.
2	# 2	MUA1	4.3	50 LBS	CURB	19.500"W X 52.000"L X 20.000"H INSULATED.
3	# 3	60" DEEP BREAD OVEN		31 LBS	CURB	17.500"W X 17.500"L X 26.000"H.

1" R4.3 FOIL FACED FIBERGLASS INSULATION. COMPLIES WITH UL/ULC,ASTM, & ASHRAE STANDARDS.

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	GRIDDLE EF	1	GREASE BOX
		1	ECM WIRING PACKAGE – PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION
		1	FAN BASE CERAMIC SEAL – DU/DR50HFA – INSTALLED AT PLANT – FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
2	MUA1	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	MOTORIZED INTAKE DAMPER (D76)
		1	FREEZESTAT
		1	ECM WIRING PACKAGE-SUPPLY – PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CW ROTATION
		1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET
3	60" DEEP BREAD OVEN	1	I 12-BDD DAMPER
		1	ECM WIRING PACKAGE – MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY

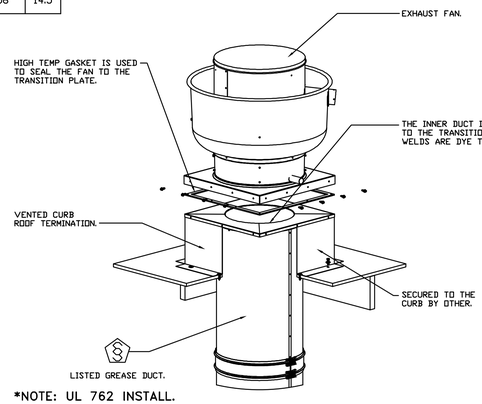
HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55

(S) GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

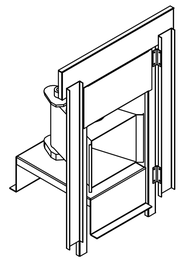
IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED ☐
APPROVED WITH NO EXCEPTION TAKEN ☐
REVISE AND RESUBMIT ☐
SIGNATURE _____
YOUR TITLE _____ DATE _____ _____



*NOTE: UL 762 INSTALL.



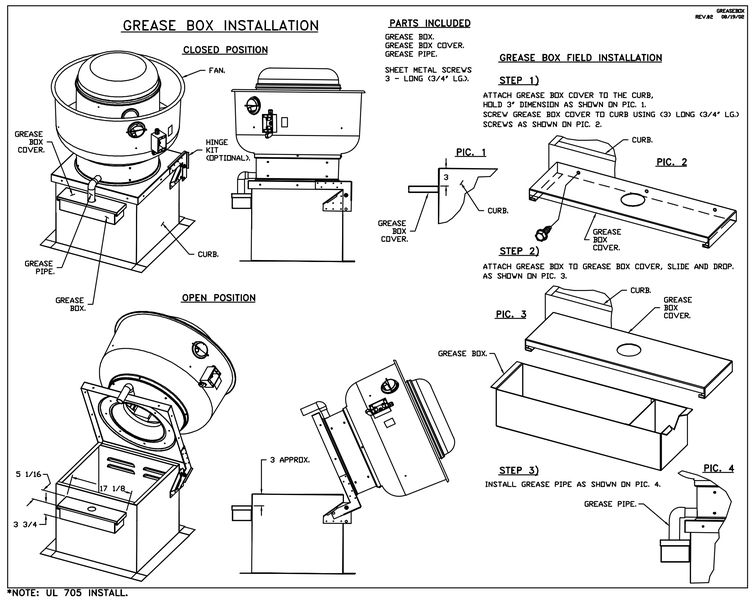
DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

DIRECT FIRED PROFILE PLATE SPECIFICATIONS:
DESCRIPTION:
DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO. US6629523B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 5PPM OF CARBON MONOXIDE (CO), AND 0.5PPM OF NITROGEN DIOXIDE (NO2)DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION:
SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

CERTIFICATIONS:
ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

GENERAL CONSTRUCTION:
-PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.
-PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
-PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
-DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
-SPRING HINGES SHALL BE MADE FROM PLATED STEEL.



*NOTE: UL 705 INSTALL.

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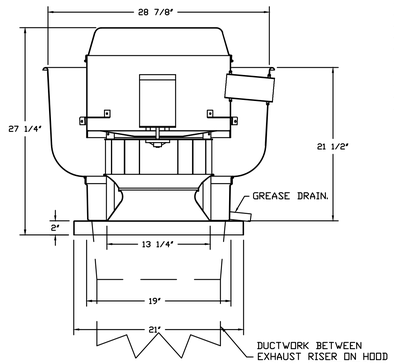
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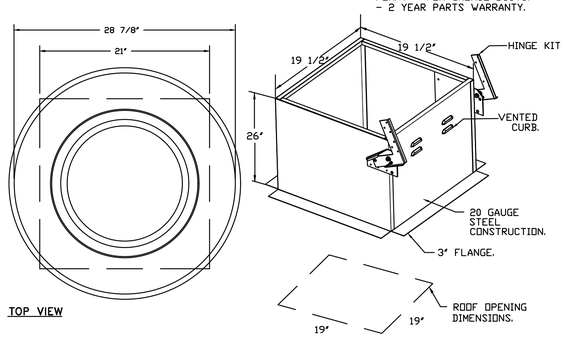
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FAN #1 DU30HFA - EXHAUST FAN (GRIDDLE EF)





TOP VIEW

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.
- FAN BASE CERAMIC SEAL - DU/DR50HFA - INSTALLED AT PLANT - FOR GREASE DUCTS.
- 2 YEAR PARTS WARRANTY.

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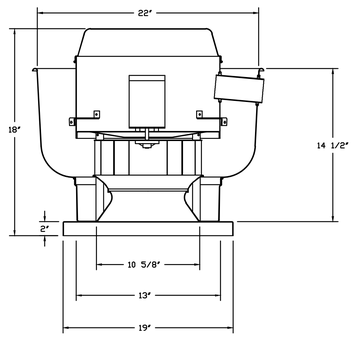
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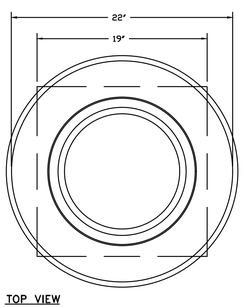
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FAN #3 DU12HFA - EXHAUST FAN (60" DEEP BREAD OVEN)





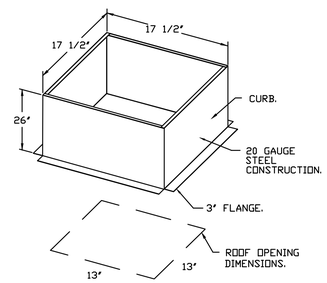
TOP VIEW

FEATURES:

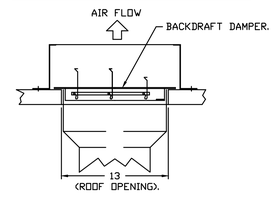
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- NEMA 3R SAFETY DISCONNECT SWITCH.

OPTIONS

- I 12-BDD DAMPER.
- ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



BACKDRAFT DAMPER INSTALLATION



REVISIONS		
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Jersey Mike's Subs - Kansas City, MO

KANSAS CITY, MO,

DATE: 7/28/2026

DWG.#: 8807641

DRAWN BY: ME- Reg32

SCALE: NTS

MASTER DRAWING

SHEET NO. 7

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CERTIFICATE OF AUTHORITY NO. 001498

JERSEY MIKES - KANSAS CITY

15 NW Barry Rd
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STATE OF MISSOURI
MATTHEW R. CASE
NUMBER PE-2017000282
PROFESSIONAL ENGINEER

10/07/2026

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Client Approval

Hood Drawing

Project #	43426-MO01
Issue Date	10/07/2026
Scale	As indicated
Drawn by	ATP
Checked by	JST

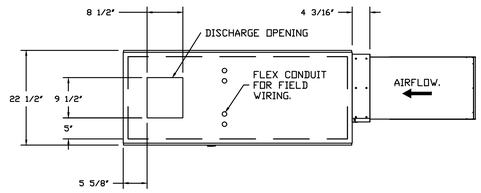
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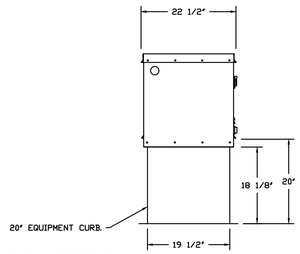
7/2/2026 12:19:38 PM JERSEY MIKES - KANSAS CITY

FAN #2 D76D - HEATER (MUA1)
1. LOW CFM DIRECT FIRED HEATER. DIRECT DRIVE.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
5. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE.
6. MOTORIZED BACK DRAFT DAMPER 13" X 17" FOR D76 COMPACT DIRECT FIRED HEATERS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, TF120S ACTUATOR INCLUDED.
7. FREEZESTAT.
8. ECM WIRING PACKAGE FOR SUPPLY MOTORS WITH PWM SIGNAL FROM ECPM03 PREWIRE.
9. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.

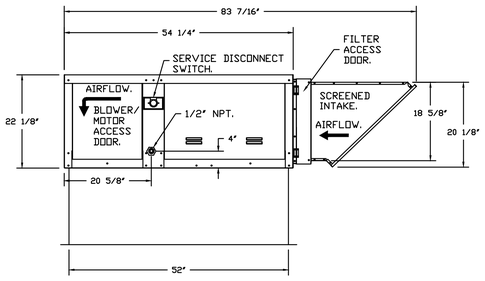
SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 16°F. TEMP. RISE = 59°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 47274.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 51385.
OUTPUT BTUs AT ALTITUDE OF 1296 FT. = 45102.
INPUT BTUs AT ALTITUDE OF 1296 FT. = 49024.

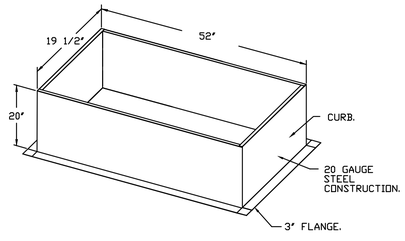




ROOF OPENING 2" SMALLER THAN CURB DIMENSION.



OPTIONS:
- FULL BOTTOM CORNERS.



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ELECTRICAL PACKAGE – JOB#8807641

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1		SC-111110MA	UTILITY CABINET RIGHT	UTILITY CABINET RIGHT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	GRIDDLE EF	EXHAUST	1	0.500	115	6.3
				HOOD # 1	1 FAN		MUA1	SUPPLY	1	1.000	115	11.6
2		Switches		FACE MOUNT RIGHT SIDE OF HOOD	1 FAN							
				HOOD # 2								

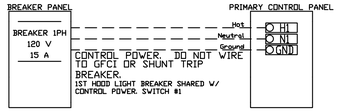
JOB NO 8807641 | MODEL NUMBER SC-111110MA | JOB NAME Jersey Mike's Subs - Kansas C... | DRAWN BY | DATE 7/28/2026 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-1

DESCRIPTION OF OPERATION:
120V 1 Phase w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Relay On/Off with Supply Fan, Fan(s) On/Off Thermostatically Controlled. Room temperature sensor shipped loose for field installation.

BREAKER PANEL TO PRIMARY CONTROL PANEL

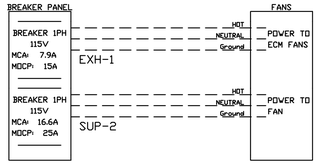
Responsibility: Electrician

BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



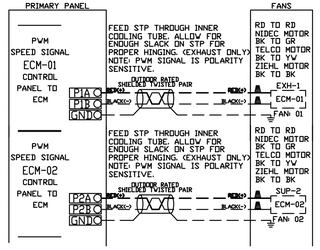
BREAKER PANEL TO FANS

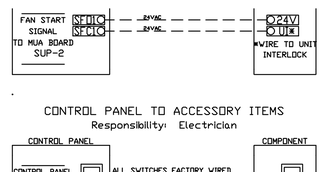
Responsibility: Electrician



CONTROL PANEL TO FANS

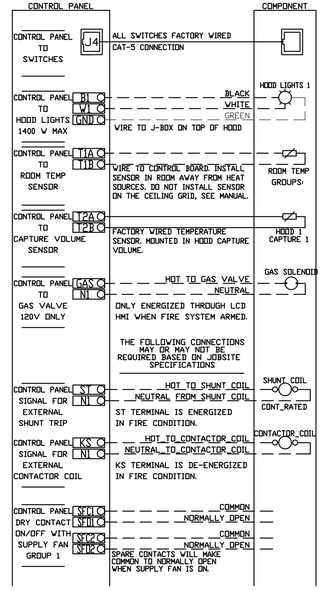
Responsibility: Electrician

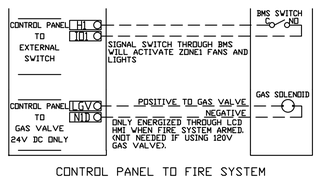




CONTROL PANEL TO ACCESSORY ITEMS

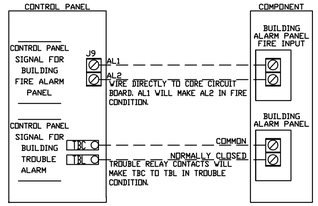
Responsibility: Electrician





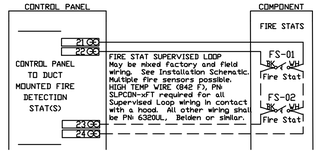
CONTROL PANEL TO FIRE SYSTEM

Responsibility: ALARM CONTRACTOR



CONTROL PANEL TO FIRE SYSTEM

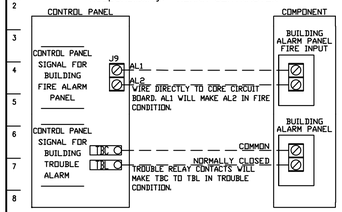
Responsibility: CERTIFIED INSTALLER



TANK CONNECTIONS

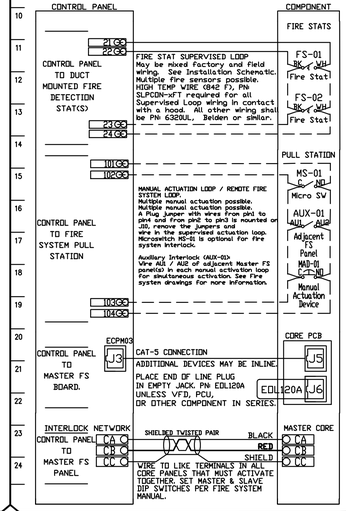
CONTROL PANEL TO FIRE SYSTEM

Responsibility: ALARM CONTRACTOR



CONTROL PANEL TO FIRE SYSTEM

Responsibility: CERTIFIED INSTALLER



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DATE: 7/28/2026

DWG.#: 8807641

DRAWN BY: ME- Reg32

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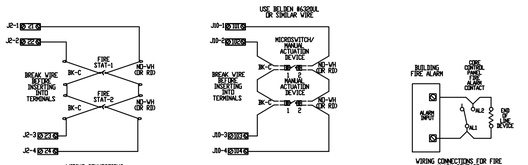
7/2/2026 12:19:58 PM JERSEY MIKES - KANSAS CITY

JOB NO	MODEL NUMBER	DRAWN BY	REVISIONS TYPE	DESCRIPTION OF OPERATION:
8807641	SC-111110MA		INSTALL	Fire System #1 Tank FS - 40 GTSD, Twin-headed Fire Protection System equipped with Electronic Detection utilizing CORE Sound as a United Release Mechanism. Installed in Hood Utility Cabinet with integral hood proximity panel.
	JOB NAME: Jersey Mike's Subs - Kansas C...	DATE: 7/28/2026	ECR #'S: ECR #1-3	

TANK PROTECTION LOW-VOLTAGE FIGURES

10/01/2023 Rev. 17

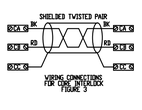
FS-1: MASTER



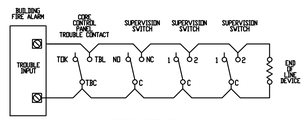
WIRING CONNECTIONS FOR FIRESTAT LOOP
FIGURE 1

WIRING CONNECTIONS
FOR MANUAL ACTUATION LOOP
FIGURE 1A

WIRING CONNECTIONS FOR FIRE
ALARM CONTACT
FIGURE 2



WIRING CONNECTIONS
FOR CORE INTERLOCK
FIGURE 3



WIRING CONNECTIONS FOR
TROUBLE CONTACT
FIGURE 4

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

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	JOB NAME: Jersey Mike's Subs - Kansas C...	DATE: 7/28/2026	ECR #'S: ECR #1-3	

TANK PROTECTION ELECTRICAL DETAIL

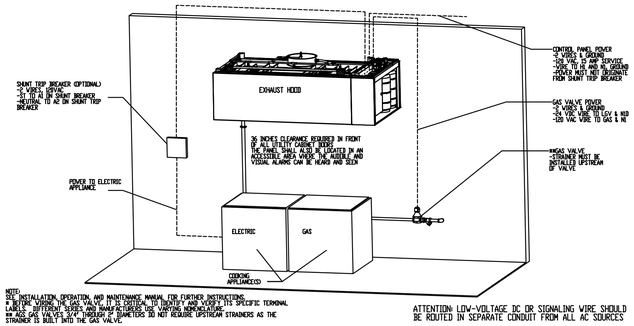
03/18/2026 Rev. 03

FS-1: MASTER

ELECTRICIAN:
1. VERIFY MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. VERIFY ALL FANS PER INCLUDED SCHEMATIC
3. VERIFY SHUNT TRIP BREAKER (OPTIONAL)
4. VERIFY UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. VERIFY GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & NI	BREAKER COIL (ST) & (N)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	NI & NI + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & NI	KTS & NI	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AUI, AUI	SOLENOID	120 VAC	< 6 AMPS	120V TO AUI, AUI TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
MGAS VALVE ASCO	LGV & MGI OF 24 VDC/ GAS & NI OF 120 VAC	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.0 AMPS	IF 24 VDC - 2 WIRES & GROUND, MGI TO RED, LGV TO RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND, GAS TO RED, NI TO RED, AND GREEN TO GROUND
MGAS VALVE AGS	LGV & MGI OF 24 VDC/ GAS & NI OF 120 VAC	RED/BLACK OF 24 VDC/ L/G/N OF 120 VAC	24 VDC OR 120 VAC	< 1.0 AMPS	IF 24 VDC - 4 WIRES & GROUND, LGV TO LGV, MGI TO CO, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND, GAS TO LGV, NI TO MGI, AND GREEN TO GROUND



NOTE:
SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS.
** BEFORE WIRING THE GAS VALVE, IT IS CRITICAL TO IDENTIFY AND VERIFY ITS SPECIFIC TERMINAL LABELS. DIFFERENT SERIES AND MANUFACTURERS USE VARYING NOMENCLATURE.
AGS GAS VALVES 3/4" THROUGH 2" DIAMETERS DO NOT REQUIRE UPSTREAM STRAINERS AS THE STRAINER IS BUILT INTO THE GAS VALVE.

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

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TANK PROTECTION LOW-VOLTAGE DETAIL

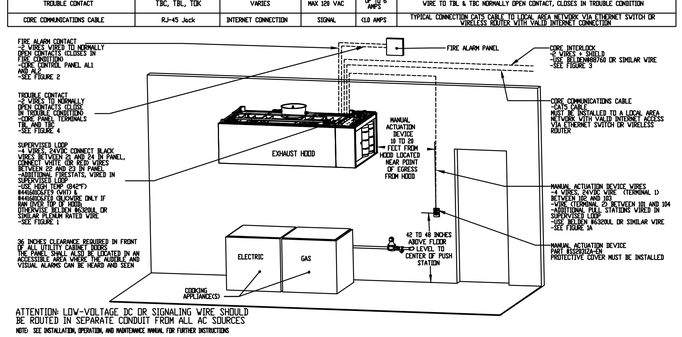
10/01/2023 Rev. 3

FS-1: MASTER

ALARM CONTRACTOR:
1. VERIFY MANUAL ACTUATION DEVICE(S), MICROSWITCH(S), FIRE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. VERIFY FINAL CORE TROUBLE IS SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST
* MICROSWITCH(S) MAYBE BE REQUIRED DEPENDING ON THE DUCT LAYOUT AND HOOD TEMPERATURE RATING. REFERENCE MANUAL FOR LOCATION AND GUIDELINES.

ALARM CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	101 AND 104 102 AND 103	1 & 2	24 VDC	< 1.0 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 102 AND 103 WIRE MANUAL ACTUATION DEVICE TERMINAL 2 BETWEEN CORE PANEL TERMINALS 101 AND 104 JUMPER 101 TO 104 AND 102 TO 103 IF NO MANUAL ACTUATION DEVICE IS INSTALLED
MANUAL ACTUATION DEVICE COVER	N/A	N/A	N/A	N/A	MANUAL ACTUATION DEVICE COVER MUST BE INSTALLED TP-DEVICE MODEL# UDS COVER EXTENSION 317-00168
REMOTE FIRESTAT SENSOR(S)	23 AND 24 22 AND 23	BLACK AND WHITE	24 VDC	< 1.0 AMPS	WIRE FIRE SENSOR WHITE WIRES BETWEEN HOOD CORE PANEL TERMINALS 22 AND 23 WIRE FIRE SENSOR BLACK WIRE BETWEEN HOOD CORE PANEL TERMINALS 23 AND 24 HIGH TEMP-SAFETY #4460FSX167 (WHT) & #4460FSX168 (BLK)WIRE OR SIMILAR ONLY 8" PER DET. INTERFACE BELOW HOOD, BELOW SENSOR LEAVE WIRES 12" FIGURE 1
FIRE ALARM CONTACT	AL1, AL2	VARIES	50V MAX DC/DC	UP TO 1 AMP	WIRE ALARM RELAY CONTACTS BETWEEN CORE PANEL TERMINALS AL1 AND AL2 CORE ELECTRICAL CONTROL PANEL
CORE INTERLOCK(S)	CA, CB, CC	CA, CB, CC	RS-485 COMMUNICATIONS SIGNAL		CORE SYSTEM (1) CA, TO CORE SYSTEM (2) CA, CORE SYSTEM (1) CB, TO CORE SYSTEM (2) CB, CORE SYSTEM (1) CC, TO CORE SYSTEM (2) CC. USE BELDEN 6870UB OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TDK	VARIES	MAX 120 VAC	UP TO 6 AMPS	WIRE TO TBL & TBC NORMALLY OPEN CONTACT, CLOSES IN TROUBLE CONDITION
CORE COMMUNICATIONS CABLE	RJ-45 Jack	INTERNET CONNECTION	SIGNAL	<1.0 AMPS	TYPICAL CONNECTION CAT5 CABLE TO LOCAL AREA NETWORK VIA ETHERNET SWITCH OR WIRELESS ROUTER WITH VALID INTERNET CONNECTION



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

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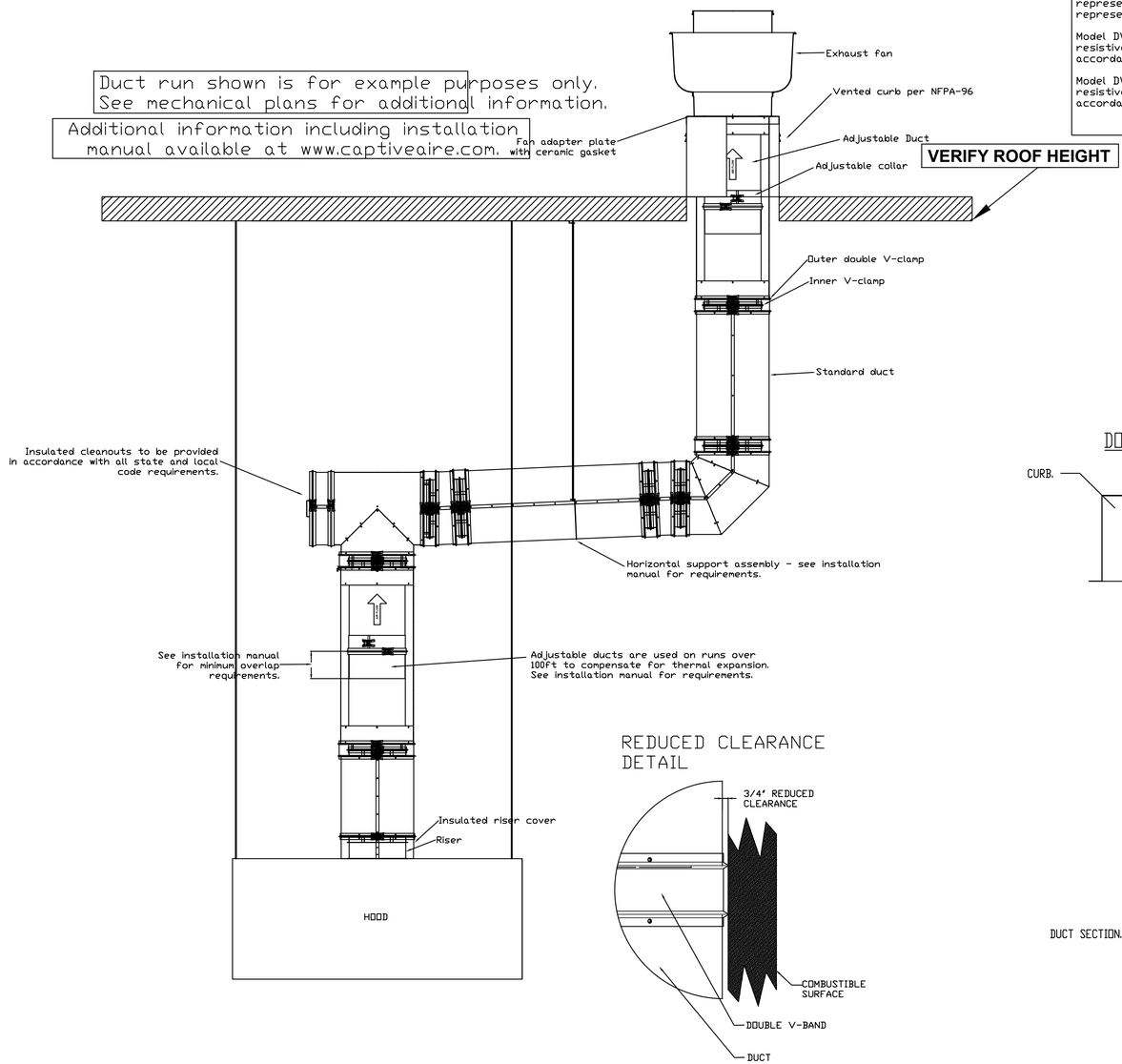
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GREASE EXHAUST DUCT DETAILS

> CaptiveAire Grease Exhaust Duct is UL Listed and requires no field welding
> Complies with IMC and NFPA96 requirements
> Single-wall ductwork with Wrap is also available

Duct run shown is for example purposes only.
See mechanical plans for additional information.

Additional information including installation manual available at www.captiveaire.com.



REDUCED CLEARANCE DETAIL

Double Wall Grease Duct Specification

Furnish double wall, factory built grease duct for use with Type I kitchen hoods, which conforms to the requirements of NFPA-96. Products shall be ETL listed to UL-1978 and UL-2221 for venting air and grease vapors from commercial cooking operation. Models DW-2R and 3Z are used for grease duct applications when installed in accordance with these instructions and National Fire Protection Association "NFPA 96"; Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations. Double wall grease ducts are listed for a continuous internal temperature of 500 degrees F and intermittent temperatures of 2000 degrees F.

The duct sections shall be constructed of an inner duct wall and an outer wall with insulation in between. The inner duct wall shall be constructed of .036 inch thick, 430 type stainless steel and be available in diameters 8" through 24". The outer wall shall be constructed of stainless steel at a minimum of .024 inch thickness. The duct, based on model number, shall include layers of Super Wool 607 Plus insulation between the inner and outer wall. Grease duct joints shall be held together by means of formed V clamps and sealed with 3M Fire Barrier 2000+. The duct wall assembly shall be tested and listed at ¾" or zero inch clearance, according to classifications.

Classifications and Clearances

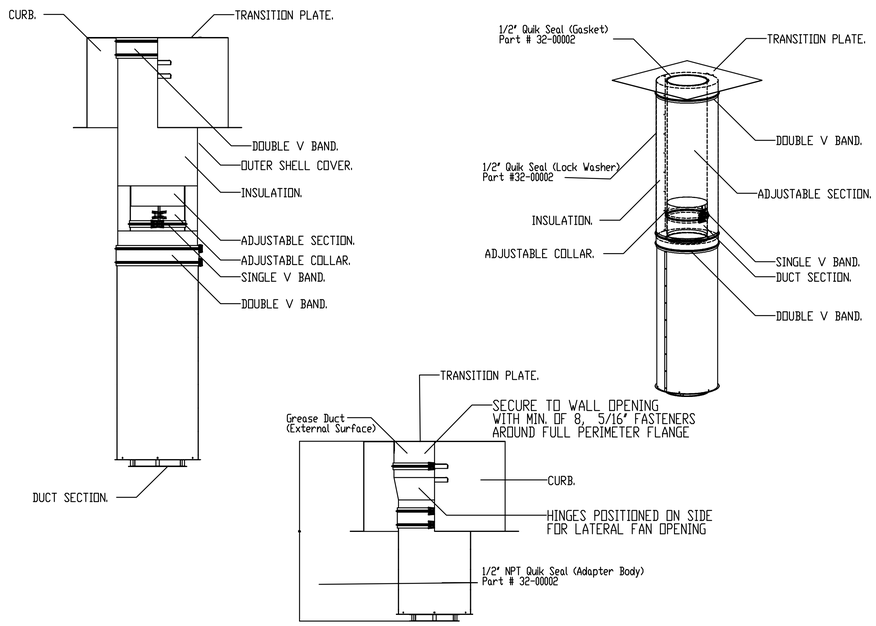
UL 2221: Standard for Fire Resistive Grease Duct Enclosure Assemblies. Chapter 7 of this standard references a test labeled Internal Fire Test. Section 7.1.1 references two installation conditions, Condition A and Condition B. Condition A represents all installation condition except for installation within non-ventilated combustible enclosures. Condition B represents installation within a non-ventilated combustible enclosure.

Model DW-3Z is classified under UL2221 (Test of Fire Resistive Duct Enclosure Assemblies) as an alternate to 2-Hr. fire resistive shaft enclosures with a minimum zero clearance to combustibles (sizes 8" to 24" diameter). Model 3Z is listed in accordance with the requirements for duct enclosure Condition A and B.

Model DW-2R is classified under UL2221 (Test of Fire Resistive Duct Enclosure Assemblies) as an alternate to 2-Hr. fire resistive shaft enclosures with a reduced clearance to combustibles (sizes 8" to 16" diameter). Model 2R is listed in accordance with the requirements for duct enclosure Condition B.

CONTACT CAPTIVEAIRE FOR A CUSTOMIZED DUCT SUBMITTAL
EMAIL: reg32@captiveaire.com
PHONE: (800) 988-0881

DOUBLE WALL DUCT TRANSITION PLATE



REVISIONS

	DESCRIPTION	DATE:
△		
△		
△		
△		

CAPTIVEAIRE
Maryland Office
8120 Woodmont Avenue, Suite 720, Bethesda, MD. 20814 PHONE: (800) 988 - 0881 FAX: 3192279931 EMAIL: reg32@captiveaire.com
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Jersey Mike's Subs - Kansas City, MO
KANSAS CITY, MO,

DATE: 7/28/2026
DWG.#: 8807641
DRAWN BY: ME- Reg32
SCALE: NTS
MASTER DRAWING

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STATE OF MISSOURI
MATTHEW R. CASE
NUMBER PE-2017000282
PROFESSIONAL ENGINEER
10/07/2026

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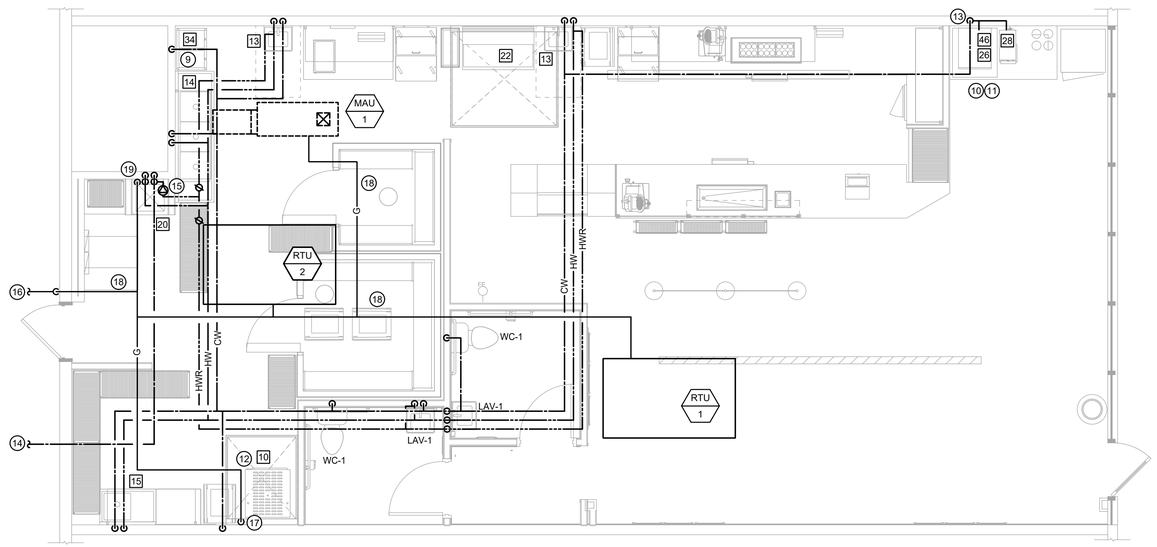
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Hood Drawing

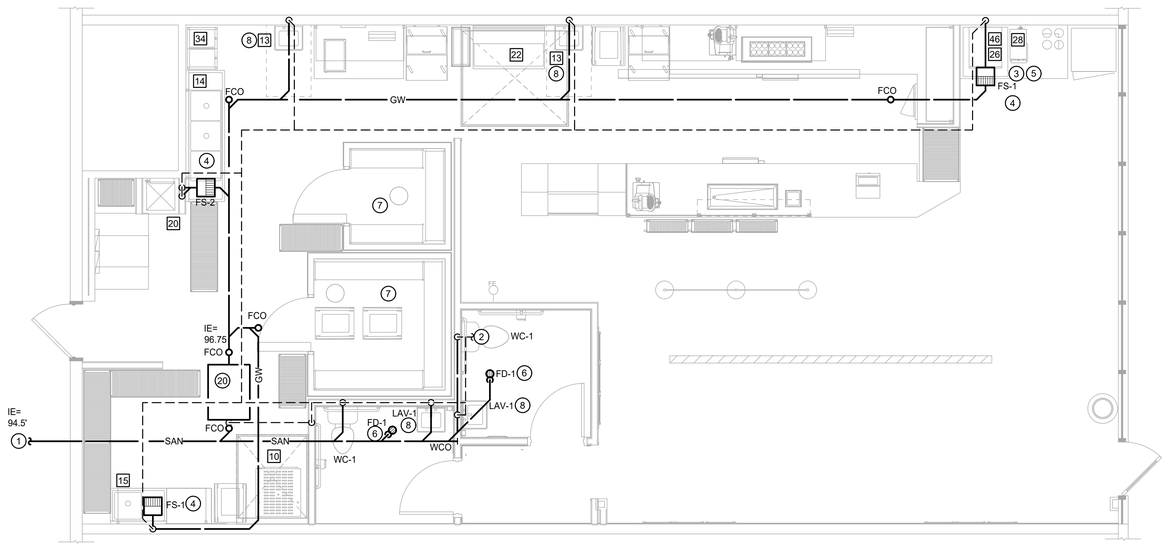
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Checked by	JST

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2 WATER AND GAS PLAN
SCALE: 1/4" = 1'-0"



1 SANITARY/GREASE WASTE PLAN
SCALE: 1/4" = 1'-0"

NOTE:
INVERT ELEVATIONS SHOWN ARE BASED ON A FINISHED FLOOR ELEVATION OF 100.00'

EQUIPMENT LEGEND

#	DESCRIPTION
10	BREAD OVEN
13	HAND SINK - WALL HUNG
13A	HAND SINK - DROP IN
14	3 COMPARTMENT SINK
15	PREP SINK
20	MOP SINK
22	GRILLE
26	DRINK DISPENSER & ADAPTER KIT
28	ICED TEA BREWER / DISPENSER
34	BAG IN BOX SYSTEM
46	ICE MAKER

GAS LOAD SUMMARY

SYSTEM	DESIGNATION	EQUIPMENT	MBH
PLUMBING	GWH-1	WATER HEATER	199
KITCHEN	22	GRILLE	135
HVAC	RTU-1	ROOFTOP UNIT	150
HVAC	RTU-2	ROOFTOP UNIT	80
HVAC	MAU-1	ROOFTOP UNIT	49
TOTAL NATURAL GAS CONNECTED LOAD			613
GAS METER REQUIREMENTS	MBH CAPACITY		613
	TOTAL DEVELOPED LENGTH INCLUDING EQUIVALENT PIPE LENGTH FOR FITTING AND VALVE FRICTION LOSSES TO GAS METER.		100 FT X 1.2 = 120 TDL
	CONSULT GAS UTILITY COMPANY FOR REGULATOR RATING		

NAVIEN NPE-240A FLOW RATE PER UNIT

TEMPERATURE RISE (°F)	25	30	40	45	50	60	70	80	90	100	110	120	130
FLOW RATE (GPM)	10.1	9.1	8.3	8.1	7.0	6.0	5.0	4.7	4.5	4.4	4.0	3.5	3.5

TYPE OF FIXTURE	QUANTITY	MAX GPM	AVG. TEMP (°F)	TOTAL	SIM USE FACTOR
COMPARTMENT SINK	1	3	140	2.4	.8
PREP SINK	1	3	140	2.4	.8
HAND SINK	2	1.5	110	1.5	.5
LAVATORY SINK	2	.5	110	.5	.5
MOP SINK	1	2.25	140	.45	.2
			TOTAL DEMAND	7.25	GPM
			ADJUSTED DEMAND	4.35	GPM

HOT WATER BALANCING NOTE:

PLUMBING CONTRACTOR SHALL PROVIDE JOMAR VALVE RECIRCSETTER™AUTOMATIC VARIABLE SET POINT BALANCING VALVE OR EQUIVALENT AT EACH HOT WATER CIRCULATION CONNECTION TO THE HOT WATER SYSTEM. ENSURE VALVES ARE INSTALLED IN AN ACCESSIBLE LOCATION FOR ADJUSTMENT AND SERVICE. SYSTEM SHALL BE SET FOR A 5 DEGREE TEMPERATURE DIFFERENCE FROM WATER HEATER SET POINT. CONSULT WITH THE CIRCULATING PUMP MANUFACTURER FOR ADDITIONAL CONTROLS AND BALANCING INSTRUCTION.

EXISTING SANITARY SEWER CONDITIONS NOTE:

SANITARY SEWER PIPING SHOWN ON DRAWINGS IS DIAGRAMMATIC AND MAY DIFFER SLIGHTLY FROM ACTUAL FIELD CONDITIONS. PLUMBING CONTRACTOR (PC) SHALL COORDINATE WITH EXISTING FIELD CONDITIONS VIA A SANITARY VIDEO SURVEY/SCOPE TO DETERMINE THE EXACT SIZE, LOCATION, INVERT ELEVATIONS AT THE PROPOSED CONNECTIONS TO EXISTING PLUMBING SERVICES PRIOR TO BID/CONSTRUCTION. IF ACTUAL FIELD FINDINGS VARY SIGNIFICANTLY FROM THOSE AS INDICATED ON PLANS, PC SHALL NOTIFY GENERAL CONTRACTOR (GC) IMMEDIATELY PRIOR TO STARTING ANY WORK. THE OWNER SHALL NOT BE RESPONSIBLE FOR ADDITIONAL COSTS INCURRED BY FAILED COORDINATION AFTER CONSTRUCTION HAS BEGUN. PC SHALL BE RESPONSIBLE FOR UTILIZING A REPUTABLE UTILITY LOCATING SERVICE PRIOR TO ANY EXCAVATION.

PLUMBING SYMBOLS

SAN	SANITARY SEWER LINE
GW	GREASE WASTE LINE
	VENT LINE
G	GAS LINE
	COLD WATER LINE
	HOT WATER LINE
	HOT WATER RETURN LINE
	SHUT-OFF VALVE
	BACKFLOW PREVENTER
	POINT OF CONNECTION
CW	COLD WATER
HW	HOT WATER
TW	TEMPERED WATER
FW	FILTER WATER
FS	FLOOR SINK
FD	FLOOR DRAIN
TP	TRAP PRIMER
TMV	THERMOSTATIC MIXING VALVE

NOTE:

1. REFER TO RISER DIAGRAM ON SHEET P2.0 FOR PIPE SIZES.
2. REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P2.0 FOR LIST OF FIXTURES.
3. ALL EXPOSED DRAIN PIPING FOR 3-COMP SINK, PREP SINK SHALL BE PIPED IN COPPER.

GENERAL NOTES

1. VERIFY ALL PIPING IS GRADED AS PER CODE AND INSTALLED AS CALLED FOR IN DRAWINGS AND REQUIRED FOR PROPER OPERATION.
2. PROVIDE WALL PLATES, STOPS, SUPPLIES, TRAPS AND DRAIN OUTLETS FOR ALL KITCHEN EQUIPMENT AND MISCELLANEOUS EQUIPMENT.
3. CONNECT ALL EQUIPMENT AND FIXTURES SUPPLIES BY OTHERS.
4. ALL HOT WATER PIPING SHALL BE FIBERGLASS INSULATED (R=4.0 MIN. RATING).
5. PROVIDE NAIL GUARDS AS REQUIRED.
6. ALL WORK TO BE DONE IN ACCORDANCE WITH ALL LOCAL CODES AND REQUIREMENTS.
7. VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BID AND START OF WORK.
8. ALL EXPOSED PIPING FOR DESIGNATED DISABLED ACCESS FIXTURES SHALL BE COVERED OR OTHERWISE WRAPPED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND LOCAL AUTHORITY.
9. ALTERNATE MATERIAL NOT IDENTIFIED IN DRAWINGS BUT APPROVED BY LOCAL AUTHORITY SHALL BE SUBMITTED TO ARCHITECT AND PLUMBING ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
10. PLUMBING CONTRACTOR TO FURNISH AND INSTALL ALL MATERIAL AND PIPING REQUIRED FROM ROUGH-IN LOCATION TO EQUIPMENT CONNECTION LOCATIONS, BOTH SUPPLY AND WASTE (DIRECT & INDIRECT).
11. ALL HORIZONTAL LINES AS EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT HIGHEST POSSIBLE ELEVATION AND NOT LESS THAT 6 INCHES ABOVE FINISHED FLOOR SURFACE TO PROVIDE CLEARANCE FOR CLEANING AT ALL SUCH LOCATIONS.
12. PLUMBING CONTRACTOR TO INSTALL FAUCETS, AND WASTE ON ALL SINKS AND MAKE FINAL CONNECTIONS.
13. ALL INTERIOR PIPING FOR GREASE WASTE SYSTEM SHALL BE PCV, SOLVENT WELDED.
14. WHEN PERMITTED BY CODE AND THE OWNER, CONTRACTOR MAY USE PEX AS ALTERNATE SYSTEM FOR POTABLE WATER SYSTEMS.
15. ANY CHEMICAL DISPENSERS WITH A DIRECT WATER CONNECTION WILL REQUIRE AN RPZ BACKFLOW OR AIR GAP. AIR GAPS CANNOT BE ENCLOSED.
16. CROSS CONNECTION CONTROL ASSEMBLIES LOCATED MORE THAN 5' ABOVE THE FLOOR MUST HAVE A SUITABLE, PERMANENT PLATFORM FOR TESTING AND MAINTENANCE

PLAN KEYED NOTES

1. ROUTE NEW SANITARY SEWER TO CONNECT TO EXISTING SANITARY SEWER LINE SERVING TENANT SPACE. VERIFY EXISTING INVERT ELEVATIONS, DIRECTION OF FLOW AND LOCATIONS IN FIELD PRIOR TO ANY WORK.
2. ROUTE NEW SANITARY VENT TO CONNECT TO EXISTING VENT. VERIFY EXACT LOCATION IN FIELD. PROVIDE NEW VENT THROUGH ROOF IF NONE EXISTING TO SERVE THIS TENANT SPACE. COORDINATE ALL INSTALLATION REQUIREMENTS WITH LANDLORD. EXISTING VENT PIPE AT POINT OF CONNECTION MUST OF EQUAL OR GREATER SIZE THAT CONNECTING TO NEW VENT PIPE.
3. ROUTE ICE MAKER INDIRECT WASTE TO FLOOR SINK. PROVIDE AIR GAP PER CODE. REFER TO PLUMBING EQUIPMENT SCHEDULE FOR INFORMATION.
4. INSTALL FLOOR SINK FLUSH WITH FINISHED FLOOR. REFER TO PLUMBING FIXTURE SCHEDULE FOR INFORMATION.
5. ROUTE INDIRECT WASTE FROM SODA MACHINE TO FLOOR SINK.
6. PROVIDE FLOOR DRAIN WITH CODE APPROVED TRAP GUARD OR TRAP PRIMER.
7. REFRIGERATION SYSTEM HAS NO CONDENSATE DRAIN (SELF EVAPORATING TYPE).
8. PROVIDE HAND SINK/LAVATORY WITH ASSE 1070 THERMOSTATIC MIXING VALVE (TMV) SET AT 105°F.
9. PROVIDE IN-LINE BACK FLOW PROTECTION (BFP) FOR BAG-N-BOX. REFER TO KITCHEN EQUIPMENT SCHEDULE. SEE BACKFLOW TABLE THIS SHEET FOR BFP
10. INSTALL ACCESSIBLE CW SUPPLY TO SODA MACHINE. PROVIDE BACKFLOW PER SCHEDULE, THIS SHEET.
11. PROVIDE BACKFLOW TO SERVE ICE TEA BREWER PER SCHEDULE, THIS SHEET.
12. ROUTE COLD WATER PIPING DOWN TO BREAD OVEN, PROVIDE 1/4" REDUCER AND QUARTER TURN VALVE. REDUCE AND PROVIDE LEAD FREE DOUBLE CHECK VALVE WATTS 007 OR EQUAL, PRIOR TO CONNECTION TO EQUIPMENT.
13. CW SUPPLY DOWN TO BEVERAGE COUNTER. NOTE MANIFOLD AS REQUIRED TO EACH PIECE OF EQUIPMENT. COORDINATE WITH ARCHITECTURAL AND FINISHES. PROVIDE ANGLE STOP WITH APPROPRIATE BACKFLOW DEVICE INDICATED ON SCHEDULE THIS SHEET.
14. ROUTE NEW 1-1/4" DOMESTIC COLD WATER TO CONNECT TO EXISTING 1-1/3" DOMESTIC COLD WATER SERVICE LINE STUB IN SPACE. PROVIDE AND INSTALL 1-1/4" RPZBFP ABOVE MOP SINK IF ONE IS NOT PROVIDED FOR THE SPACE. COORDINATE WITH WATER COMPANY AND LANDLORD FOR EXACT METERING REQUIREMENTS.
15. CIRCULATION PUMP, SEE PLUMBING FIXTURE SCHEDULE AND RISER DIAGRAM.
16. ROUTE NEW GAS PIPING TO CONNECT TO GAS METER AT LANDLORD PROVIDED METER BANK. VERIFY METER INSTALLATION REQUIREMENTS WITH LOCAL UTILITY COMPANY.
17. GAS DOWN TO KITCHEN EQUIPMENT. PROVIDE AUTOMATIC EMERGENCY FUEL SHUT-OFF VALVE, EMERGENCY SHUT OFF INTERLOCKED TO HOOD FIRE SUPPRESSION SYSTEM. PROVIDE MANUAL SHUT-OFF VALVE FOR GAS LINE ABOVE AUTOMATIC EMERGENCY FUEL SHUT-OFF VALVE. COORDINATE WITH HOOD DRAWINGS.
18. GAS PIPING RUN ON ROOF TOP. VERIFY ROUTING PRIOR TO CONSTRUCTION. PAINT ALL EXPOSED GAS PIPING WITH OIL-BASE PAINT FOR RUST PROTECTION
19. ROUTE GAS PIPING TO NEW WATER HEATER. PROVIDE SHUT OFF, DIRT LEG AND UNION PRIOR TO CONNECTION TO EQUIPMENT.
20. ROUTE NEW GREASE WASTE PIPING TO CONNECT TO NEW SCHIER GG-3 GREASE INTERCEPTOR SERVING TENANT SPACE. INSTALL IN BACK OF HOUSE. VERIFY EXISTING INVERT ELEVATIONS, DIRECTION OF FLOW AND LOCATIONS IN FIELD PRIOR TO ANY WORK.

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CERTIFICATE OF AUTHORITY NO. 001498

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STATE OF MISSOURI
MATTHEW R. CASE
NUMBER PE-2017000282
PROFESSIONAL ENGINEER

10/07/2026

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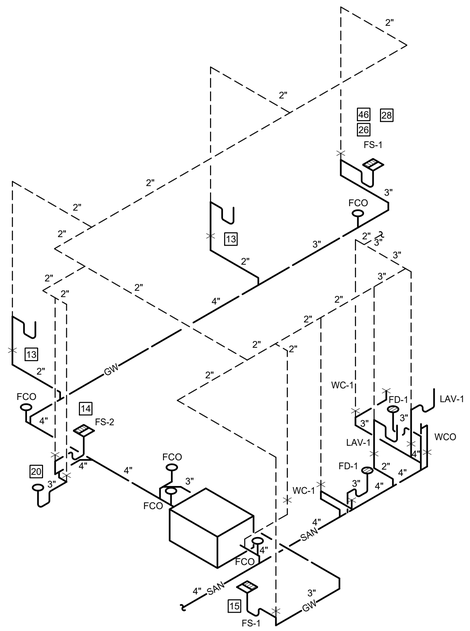
Client Approval

PLUMBING PLAN

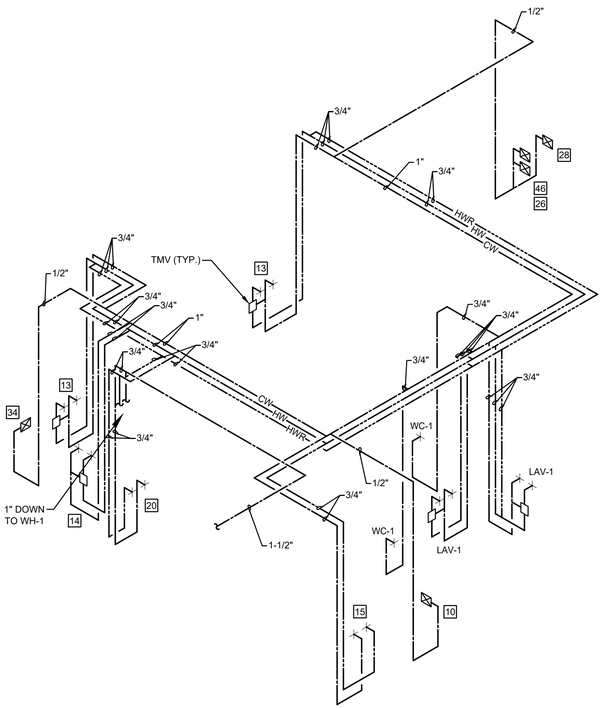
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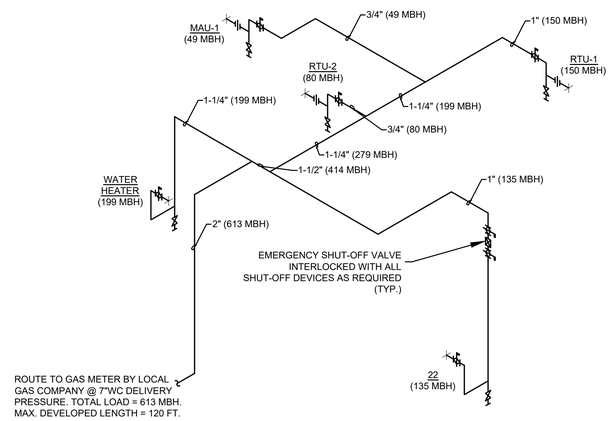
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1 WASTE RISER DIAGRAM
SCALE: **N.T.S.**



2 WATER RISER DIAGRAM
SCALE: **N.T.S.**



2 GAS RISER DIAGRAM
SCALE: **N.T.S.**

TABLE TO CALCULATE DRAINAGE FIXTURE UNITS

PLUMING FIXTURE	DRAINAGE FIXTURE UNITS	NUMBER OF FIXTURES	TOTAL DRAINAGE FIXTURE UNITS
HAND SINK	1	2	2
LAVATORY	1	2	2
WATER CLOSET	4	2	8
FLOOR SINK	3	3	9
MOP SINK	3	1	3
TOTAL DRAINAGE FIXTURE UNITS			24

TABLE TO CALCULATE SUPPLY FIXTURE UNITS

PLUMING FIXTURE	SUPPLY FIXTURE UNITS	NUMBER OF FIXTURES	TOTAL SUPPLY FIXTURE UNITS
HAND SINK	1.0	2	2.0
LAVATORY	1.0	2	2.0
WATER CLOSET	2.5	2	5.0
3 COMPARTMENT SINK	3.0	1	3.0
PREP SINK	2.0	1	2.0
BEVERAGE EQUIP.	0.5	3	1.5
MOP SINK	3.0	1	3.0
TOTAL SUPPLY FIXTURE UNITS			18.5
GPM:			20.0
WATER SERVICE SIZE:			1-1/4"

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	SAN.	VENT.	C.W.	H.W.	REMARKS
WC-1	WATER CLOSET - ADA FLOOR SET	4"	2"	1/2"	-	SLOAN: WETS-8029.8010 (RH) WETS-8029.8113 (LH) PRESSURE ASSIST FLUSH TANK, 1.28 GPF, ELONGATED BOWL WITH CHURCH #9500C ELONGATED WHITE OPEN FRONT SEAT ADA
LAV-1	LAVATORY - ADA	2"	2"	1/2"	1/2"	KOHLER KINGSTON K-2005 WITH K-15597-5P FAUCET, 0.5 GPM, GRID STRAINER, TAILPIECE, P-TRAP, SUPPLY STOPS AND MIXING VALVE ON SUPPLY. PROVIDE AND INSTALL WRAP FOR TAIL PIECE, TRAP, AND HOT WATER.
FS-1	FLOOR SINK - HALF GRATE	3"	2"	-	-	J.R. SMITH 3060Y-12, CAST IRON FLANGED, ROUND RECEPTOR WITH SEEPAGE OPENINGS, ACID RESISTANT COATED INTERIOR, NB HALF GRATE, INTERIOR DOME STRAINER.
FS-2	FLOOR SINK HALF GRATE	4"	2"	-	-	
FD	FLOOR DRAIN	2"	2"	-	-	J.R. SMITH 2010Y, CAST IRON FLANGED, ROUND.
CP-1	CIRCULATION PUMP	-	-	3/4"	-	BELL AND GOSSETT NBF-33, ALL BRONZE BODY, 125 WATTS, 120 VOLT WITH TC-1 AUTOMATIC TIMER KIT. WHEN INSTANTANEOUS WATER IS SPECIFIED, REFER TO MANUFACTURER FOR WIRING .
MV	THERMOSTATIC MIXING VALVE POINT OF USE	-	-	1/2"	1/2"	ACORN ST-70 SET TO 110°
GWH-1	GAS WATER HEATER	-	-	-	-	NAVIEN NPE-240A2 HIGH EFFICIENCY CONDENSING TANKLESS WATER HEATER. MOUNT ABOVE MOP SINK.

EQUIPMENT SCHEDULE

#	DESCRIPTION	WATER		WASTE		MANUFACTURER	MODEL NO.
		HOT	COLD	DIRECT	INDIRECT		
10	BREAD OVEN	-	1/2"	-	-	SEE ARCH.	
13	HAND SINK	1/2"	1/2"	2"	-	SEE ARCH.	
14	3 COMPARTMENT SINK	3/4"	1/2"	-	-	SEE ARCH.	
15	PREP SINK	3/4"	1/2"	-	FS	SEE ARCH.	
20	MOP SINK	3/4"	3/4"	3"	-	MUSTEE 63	63M (1, 2, 3, 4)
22	GRILLE	-	-	-	-	SEE ARCH.	
26	DRINK DISPENSER	-	1/2"	-	FS	SEE ARCH.	
28	ICED TEA BREWER / DISPENSER	-	1/2"	-	-	SEE ARCH.	
34	BAG IN BOX SYSTEM	-	1/2"	-	-	SEE ARCH.	
46	ICE MAKER	-	1/2"	-	FS	SEE ARCH.	

POTABLE WATER BACKFLOW SCHEDULE

TYPE OF EQUIPMENT ON SYSTEM	METHOD OF CROSS CONNECTION CONTROL	MANUFACTURE AND MODEL NUMBER	REMARKS
CARBONATOR SODA SYSTEM AND BREAD OVEN	REDUCED PRESSURE ZONE ASSEMBLY	WATTS LF-009-QTS	STAINLESS STEEL BODY WITH QUARTER TURN VALVE SS STRAINER.
ICE MACHINE	REDUCED PRESSURE ZONE ASSEMBLY	WATTS LF-009-QT-S	STAINLESS STEEL BODY WITH QUARTER TURN VALVE SS STRAINER.
TEA MACHINE	DOUBLE CHECK VALVE ASSEMBLY	WATTS 9D-LF ASSE 1022/1024 CERT.	STAINLESS STEEL BODY WITH QUARTER TURN VALVE BRONZE STRAINER.
WATER SERVICE	REDUCED PRESSURE ZONE ASSEMBLY	WATTS LF-919-QT	LEAD FREE CAST COPPER WITH QUATER TURN

1. CONTRACTOR SHALL PROVIDE INDIVIDUAL BACKFLOW PREVENTERS FOR EACH PIECE OF EQUIPMENT.
2. EACH BACKFLOW PREVENTER MUST HAVE TESTING PORTS.
3. BRONZE BODIED BACKFLOW PREVENTERS ARE PERMISSABLE IF ALLOWED BY LOCAL CODES.
4. PROVIDE CARBONATOR AND BREAD OVEN WITH FEBCO (WATTS) SERIES LFTC1 TEST PORT DOWNSTREAM OF BACKFLOW PREVENTER.

GREASE INTERCEPTOR CALCULATIONS

Quote: 74DXA3B2

Reference No. 100207 Project Name: Jersey Mike's - Kansas City, MO (NW Barry Rd)

Step 1: Flow rate to grease interceptor

Fixture flow rate: (cu in / 231) = gal x 0.75 / 2 min = 2 min flow rate

NAME	TYPE	DIMENSIONS	QTY	CU IN	FLOW RATE
3 Comp	3 Compartment Sink	16" x 20" x 14" (3)	1	13,440	21.82 GPM
Floor Drain	Floor Drain	N/A	2	N/A	0 GPM
Hand Sink	Hand Sink	10" x 14" x 5"	2	1,400	2.28 GPM
Mop Sink	Mop Basin	24" x 24" x 10"	1	5,760	9.35 GPM
Prep Sink	Prep Sink One Bowl	16" x 20" x 14"	1	4,480	7.27 GPM
Total					**40.71 GPM**

Step 2: Grease Production

Servings per day x Grease production value x Days between pump-outs = Grease output

Servings per day: 250
Grease production value: 0.005 lbs per serving (Sandwich Shop: Low / No flatware)
Days between pump-outs: 90 days

250 x 0.005 x 90 = 112.5 lbs of FOG

SCHIER MODEL	
GB3	**Description:** GREASE INTERCEPTOR 50 GPM, 4" PLAIN/FPT CONNECTIONS, PEDESTRIAN RATED POLYPROPYLENE COVER **Dimensions:** Length: 37", Width: 28", Height: 21" **Flow Rate/Grease Capacity:** 50 GPM / 268 lbs **Liquid Capacity:** 40 gal

Specification Note: This Great Basin model has been sized to the flow rate and grease production requirements of the application and may not be substituted by liquid capacity alone. Any substitution requests must be approved by the specifying engineer and the authority having jurisdiction.

Please contact support@schierproducts.com for technical and procurement support for the specified Great Basin model.

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Kansas City, MO 67501

#	Description	Date

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STATE OF MISSOURI
MATTHEW R. CASE
NUMBER PE-2017000282
PROFESSIONAL ENGINEER
10/07/2026

FOR PERMIT

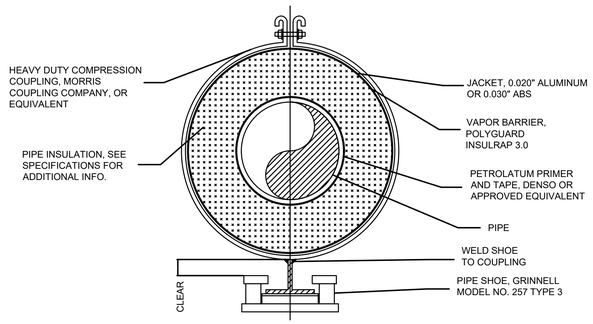
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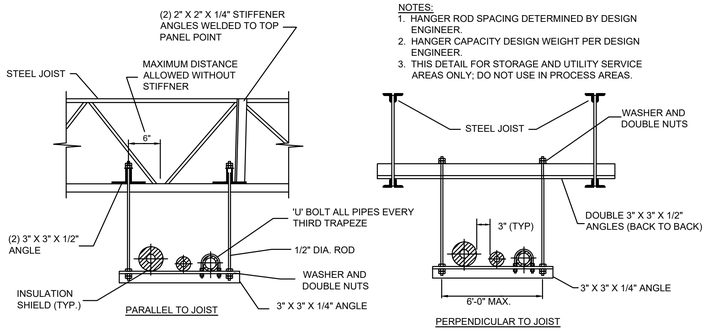
PLUMBING ISOMETRICS AND TABLES

Project #	43426-MO01
Issue Date	10/07/2026
Scale	As indicated
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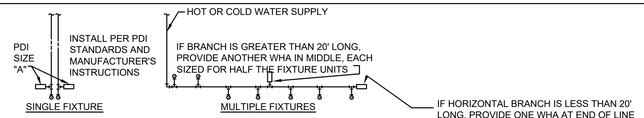
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NOTES:
1. HANGER ROD SPACING DETERMINED BY DESIGN ENGINEER.
2. HANGER CAPACITY DESIGN WEIGHT PER DESIGN ENGINEER.
3. THIS DETAIL FOR STORAGE AND UTILITY SERVICE AREAS ONLY; DO NOT USE IN PROCESS AREAS.

PIPE HANGER TRAPEZE FROM BAR JOIST DETAIL
SCALE: NONE



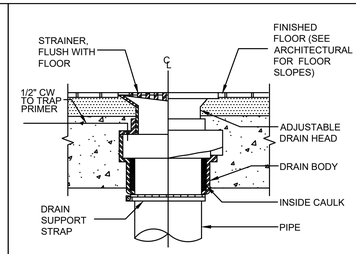
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	

FIXTURE UNIT TABULATION

FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	--
TANK WATER CLOSET	5	--
URINAL	5	--
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2

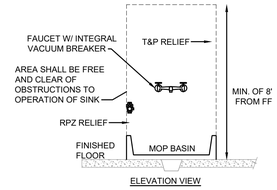
PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND 0-RING CONSTRUCTION, HAVING PDI #WH- 201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE. PROVIDE ACCESS PANEL FOR SERVICING OR REPLACEMENT, WHERE REQUIRED.

HAMMER ARRESTER DETAIL
SCALE: NONE

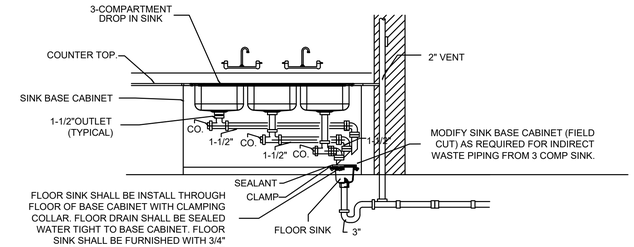


NOTE:
FLOOR DRAIN COVER FLUSH WITH TILE OR FLUSH WITH CONCRETE FLOOR IN AREA WITH NO TILE.

FLOOR DRAIN DETAIL
SCALE: NONE

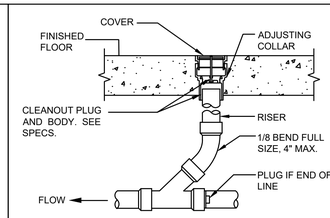


MOP SINK DETAIL
SCALE: NONE



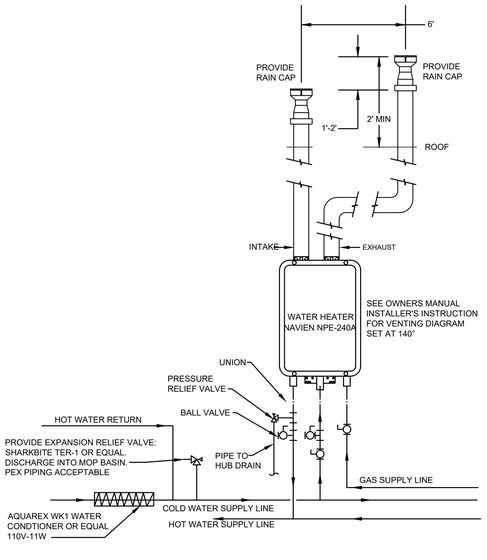
FLOOR SINK SHALL BE INSTALL THROUGH FLOOR OF BASE CABINET WITH CLAMPING COLLAR. FLOOR DRAIN SHALL BE SEALED WATER TIGHT TO BASE CABINET. FLOOR SINK SHALL BE FURNISHED WITH 3/4" GRATE. SIDE DRAIN SHALL HAVE THE REQUIRED AIR GAP PER AHJ.

3 COMPARTMENT SINK INDIRECT CONNECTION DETAIL
SCALE: NONE

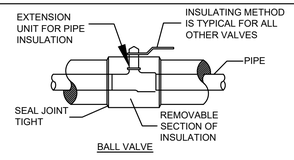


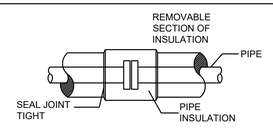
NOTE:
CLEANOUT COVER FLUSH WITH TILE OR FLUSH WITH CONCRETE FLOOR IN AREA WITH NO TILE.

FLOOR CLEAN-OUT DETAIL
SCALE: NONE



WATER HEATER DETAIL
SCALE: NONE





INSULATION NOTES:

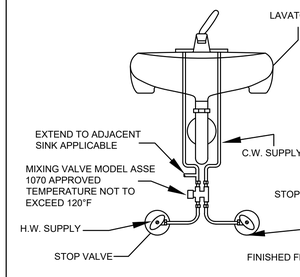
INSULATION SHALL BE APPLIED BY EXPERIENCED PERSONNEL IN ACCORDANCE WITH BEST TRADE PRACTICE GUIDED BY MANUFACTURER'S PRINTED INSTALLATION DIRECTIONS.

ALL NEW DOMESTIC COLD, HOT AND HOT WATER RETURN PIPING, FITTINGS, FLANGES AND VALVES SHALL BE INSULATED.

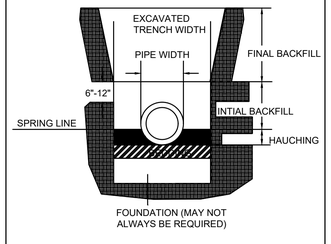
INSULATION FOR PIPING, FITTINGS, FLANGES AND VALVES SHALL NOT BE LESS THAN INDICATED ABOVE.

NOTE: SAME INSULATING METHOD SHALL BE USED FOR STRAINERS

PIPE INSULATION DETAILS
SCALE: NONE



THERMOSTATIC MIXING VALVE DETAIL
SCALE: NONE



TRENCH & BACKFILL DETAIL
SCALE: NONE

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CERTIFICATE OF AUTHORITY NO. 001498

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15 NW Barry Rd
Kansas City, MO 67501

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PLUMBING SPECIFICATIONS

1. GENERAL

THE "ARCHITECTURAL GENERAL CONDITIONS" GOVERN WORK UNDER THIS SECTION.

BEFORE SUBMITTING A PROPOSAL, THIS CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS. IT IS EXPRESSLY UNDERSTOOD THAT THIS PROPOSAL IS BASED ON THE ABOVE REQUIREMENTS AND THAT IT COVERS EVERYTHING NECESSARY TO DO AND COMPLETE THE WORK.

2. INSPECTION AND COOPERATION

NO DEVIATION FROM THE DRAWINGS AND /OR SPECIFICATIONS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF ARCHITECT OR ENGINEER. THIS CONTRACTOR SHALL COOPERATE WITH THE OTHER CONTRACTORS TO ALLOW FOR THE INSTALLATION OF THEIR WORK AS WELL AS HIS OWN.

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK FITTING IN PLACE WITHOUT CONFLICT WITH THE OTHER TRADES, WHERE PROPER PLANNING COULD AVOID INTERFERENCE.

3. CODES AND PERMITS

NOTHING IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE INTERPRETED TO CONFLICT WITH ANY CITY OR PROVINCIAL LAW, REGULATION, CODE, ORDINANCE, RULING, OR FIRE UNDERWRITER'S REQUIREMENT APPLICABLE TO THIS CLASS OF WORK.

SHOULD THE DRAWINGS AND/OR SPECIFICATIONS CONFLICT WITH SUCH LAWS OR ORDINANCES, THE CONFLICTING PORTION OF THE WORK SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH SUCH LAWS AND ORDINANCES WITHOUT EXTRA COST.

THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED FOR THIS INSTALLATION OF HIS WORK IF REQUIRED BY MUNICIPALITY.

4. ACCURACY OF DATA

THE INFORMATION GIVEN HEREIN AND ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED, BUT ITS EXTREME ACCURACY IS NOT GUARANTEED. THIS CONTRACTOR SHALL EXAMINE THE LOCATIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS AND EXISTING PIPE SIZES BEFORE STARTING THE WORK AS ALL PIPING SYSTEMS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY.

THIS CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, RAISED AND DROPS IN PIPING AND DUCTWORK AS REQUIRED BY BUILDING CONDITIONS AT NO ADDITIONAL COST.

MECHANICAL DRAWINGS SHALL NOT BE USED FOR GENERAL CONSTRUCTION DIMENSIONS OR FOR TYPE OF MATERIAL USED. FOR EXACT BUILDING LAYOUT, DIMENSIONS AND BUILDING MATERIAL USED, THIS CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS.

5. SHOP DRAWINGS

SHOP OR INSTALLATION DRAWINGS, FOUNDATION PLANS, EQUIPMENT OR APPARATUS DRAWINGS SHALL BE FURNISHED BY THIS CONTRACTOR. THESE DRAWINGS SHALL BE CLEARLY MARKED INDICATING WHICH ITEMS ARE TO BE SUPPLIED AND SHALL STATE CAPACITIES, SIZES AND GENERAL DESCRIPTION OF ALL EQUIPMENT. ANY CHANGES FROM THE SPECIFIED ITEMS SHALL BE NOTED ON THE SUBMITTALS.

SHOP DRAWINGS OF SPECIAL APPARATUS OR EQUIPMENT WHICH IS TO BE FABRICATED INDIVIDUALLY FOR THIS PROJECT AND IS NOT DESCRIBED BY STANDARD MANUFACTURER'S DRAWINGS OR BULLETINS SHALL BE SUBMITTED FOR PROCESSING BEFORE FABRICATION.

THESE DRAWINGS SHALL BE SUBMITTED IN A TIMELY MANNER.

IT SHALL BE THIS CONTRACTORS RESPONSIBILITY TO MAINTAIN LIAISON WITH ALL PARTIES CONCERNED WITH THE MATERIAL SUBMITTED. THIS CONTRACTOR SHALL NOT PURCHASE ANY EQUIPMENT UNTIL SHOP DRAWINGS HAVE BEEN PROCESSED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FEES ACCRUED FROM THE RETURN OF FIXTURES PURCHASED PRIOR TO THE REVIEW OF SHOP DRAWINGS AND THAT ARE NOT APPROVED.

THIS CONTRACTOR SHALL SUBMIT NO DRAWINGS WITHOUT NOTATION INDICATING DATE OF CONTRACTOR'S REVIEW AND SIGNATURE OF CHECK FOR CONTRACTOR TOGETHER WITH CONTRACTOR'S NAME AND PROJECT IDENTIFICATION.

ARCHITECT'S PROCESSING WILL NOT CONSTITUTE A COMPLETE CHECK BUT WILL INDICATE ONLY THAT GENERAL METHOD OF CONSTRUCTION AND DETAILING IS SATISFACTORY.

ARCHITECT'S PROCESSING WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS SINCE THIS CONTRACTOR IS SOLELY RESPONSIBLE FOR DIMENSIONS AND DESIGNS OF ADEQUATE CONNECTIONS, DETAILS AND SATISFACTORY CONSTRUCTION OF ALL WORK, AS WELL AS FURNISHING MATERIALS AND WORKMANSHIP REQUIRED BY DRAWINGS AND SPECIFICATIONS WHICH MAY NOT BE INDICATED ON THE SUBMITTALS WHEN APPROVED.

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING ENGINEER REVIEW DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR IS RESPONSIBLE FOR: EQUIPMENT VOLTAGES AND DIMENSIONS TO BE CONFIRMED AND CORRELATED WITH ALL DISCIPLINES PRIOR TO PURCHASE; INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.

6. SUBSTITUTIONS OF EQUIPMENT OR MATERIAL

THE BRAND NAMES OF EQUIPMENT OR MATERIALS SPECIFIED HEREIN SHALL ESTABLISH QUALITY, CAPACITY, TYPE AND DIMENSIONS TO BE INCLUDED IN THE BASE BID.

APPROVAL OF SUBSTITUTED ITEMS WILL BE BASED ON ABILITY AND CAPACITY TO PERFORM FUNCTION SERVED, QUALITY AND AVAILABILITY OF PARTS AND SERVICE, QUALITY OF EQUIPMENT, DELIVERY SCHEDULE, ETC. THE ARCHITECT SHALL REVIEW ALL SUCH REQUESTS BUT RESERVES THE SOLE RIGHT OF JUDGEMENT TO APPROVE OR REJECT THE PROPOSED SUBSTITUTIONS.

ACCEPTANCE OR REJECTION OF PROPOSED SUBSTITUTIONS SHALL NOT CAUSE ADDITIONAL COST. ANY CHANGES OF PIPING, DUCTWORK, ELECTRICAL CONTROLS OR INSTALLATION REQUIRED BECAUSE OF THE SUBSTITUTION OR EQUIPMENT SHALL BE PAID FOR BY THIS CONTRACTOR PROPOSING THE SUBSTITUTION.

7. ERECTION OF APPARATUS

ALL WORK SHALL BE DONE UNDER THE PERSONAL SUPERVISION OF THIS CONTRACTOR WHO SHALL PROVIDE A COMPETENT FOREMAN TO LAY OUT ALL WORK. ALL WORK SHALL BE LAID OUT WITH DUE REGARD FOR THE SPACE REQUIREMENTS OF THE OTHER CONTRACTORS. THIS CONTRACTOR SHALL REPORT ANY CONFLICTS OR DIFFICULTIES IN REGARD TO THE INSTALLATION IMMEDIATELY.

WHERE CROWDED LOCATIONS EXIST OR WHERE THERE IS A POSSIBILITY OF CONFLICT BETWEEN TRADES, THIS CONTRACTOR SHALL MAKE COMPOSITE DRAWINGS SHOWING THE EXACT LOCATIONS OF PIPES, DUCT, CONDUIT AND EQUIPMENT. DRAWINGS SHALL BE BASED ON FIELD MEASUREMENTS AND AFTER CONSULTATION AND AGREEMENT BETWEEN THE TRADES, SHALL BE APPROVED BY ARCHITECT AND ENGINEER BEFORE INSTALLATION OF THE WORK.

EQUIPMENT OF A TYPE TO REQUIRE REPLACEMENT, SERVICING, ADJUSTING OR MAINTENANCE SHALL BE LOCATED TO ALLOW EASY ACCESS AND SPACE FOR REMOVAL OF INTERNAL ASSEMBLIES, IT REQUIRED.

8. EXCAVATION AND BACKFILL

THIS CONTRACTOR SHALL DO ALL EXCAVATION REQUIRED TO INSTALL PIPES AND EQUIPMENT SHOWN ON THE PLANS OR REQUIRED FOR PROPER OPERATION. EXCESS EXCAVATION BELOW THE REQUIRED LEVEL SHALL BE BACKFILLED WITH EARTH AND THOROUGHLY TAMPED. UTILITIES SERVICES LINES SHALL BE INSPECTED AND APPROVED BY THE PROPER INSPECTION AUTHORITY BEFORE BACKFILLING.

INSTALL PLASTIC PIPE AND FITTINGS IN STRICT ACCORDANCE WITH THE INSTALLATION RECOMMENDATIONS OF THE PIPE AND FITTINGS MANUFACTURER, APPENDIX X1 OF ASTM D2265 (STORAGE AND INSTALLATION PROCEDURES FOR PLASTIC DRAIN, WASTE, AND VENT PIPING) AND FOR BURIED PIPE ASTM D2321 (STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS). SUCH INSTRUCTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO CUTTING, SOLVENT CEMENTING AND PRIMING, JOINTS, CONNECTIONS, TRANSITIONS, ALIGNMENT AND GRADE. TRENCHING, BEDDING, BACKFILL AND COMPACTION, SUPPORTS AND SPACING AND ALLOWANCE FOR THERMAL EXPANSION.

CAST IRON PIPING TRENCHING SHALL BE IN ACCORDANCE TO THE CAST IRON SOIL PIPE AND FITTINGS HANDBOOK ISSUED BY THE CAST IRON SOIL PIPE INSTITUTE.

THE BOTTOM OF TRENCHES SHALL BE TAMPED HARD AN GRADED TO SECURE THE REQUIRED FALL. ROCK, WHERE ENCOUNTERED SHALL BE EXCAVATED TO A DEPTH OF SIX INCHES (6") BELOW THE BOTTOM OF THE PIPE, AND BEFORE THE PIPE IS LAID, THE SPACE BETWEEN BOTTOM PIPE AND ROCK SURFACE SHALL BE FILLED WITH GRAVEL. IF TRENCHES ARE DEEPER THAN BOTTOM OF FLOORING OR CLOSER THAN THREE FEET (3'0") TO FOOTING THEY MUST BE FILLED WITH COHESIVE SOIL AND COMPACTED TO 95% OF MAXIMUM DENSITY, STANDARD PROCTOR, ASTM D- 698. ALL OTHER EXCAVATIONS UNDER FLOOR SLABS COMPACTED TO 95% STANDARD PROCTOR.

WHEN EXCESS DIRT HAS BEEN REMOVED, THE TRENCH SHALL BE BROUGHT TO THE REQUIRED LEVEL WITH SAND AND GRAVEL FIRMLY COMPACTED.

TRENCHES AND EXCAVATION SHALL BE BACKFILLED IN 6" LAYERS OF EARTH, FREE FROM CLODS, AND STONES THOROUGHLY TAMPED TO A DEPTH OF 12" ABOVE THE PIPE. AFTER THAT DEPTH HAS BEEN REACHED, BACKFILLING SHALL BE DONE IN 12" LAYERS, THOROUGHLY TAMPED.

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO ANY DAMAGES OR SAGS TO THE PIPING SYSTEMS THAT OCCUR FROM THE IMPROPER EXCAVATION AND BACKFILL METHODS.

9. EQUIPMENT SUPPORTS

ANY STRUCTURAL STEEL MEMBERS REQUIRED TO ADAPT THE EQUIPMENT AND PIPING AS FURNISHED BY THIS CONTRACTOR, TO THE BUILDING STEEL OR STRUCTURE, SHALL BE INCLUDED IN THE BID OF THE CONTRACTOR FURNISHING THE EQUIPMENT OR PIPING. HANGING OF ALL EQUIPMENT AND REQUIRED SUPPORTING STEEL AND BRACING SHALL BE FURNISHED BY THE CONTRACTOR WHO SUPPLIES THE EQUIPMENT.

10. CUTTING AND PATCHING

THIS CONTRACTOR SHALL INCLUDE ALL CUTTING, PATCHING AND PAINTING OF PATCHED AREAS REQUIRED FOR AND RESULTING FROM THE INSTALLATION OF ALL OF THIS CONTRACTOR'S WORK, EXCEPT WHERE NOTED OTHERWISE.

ALL OPENINGS AROUND PIPE PENETRATIONS THROUGH SMOKE OR FIRE-RATED FLOORS, CEILINGS OR WALLS SHALL BE SEALED AIRTIGHT WITH MATERIAL HAVING A RATING EQUAL TO THE MATERIAL OF THE WALL, CEILING AND/OR FLOOR PENETRATED.

ALL PATCHING SHALL BE NEATLY FINISHED TO THE SATISFACTION OF THE ARCHITECT.

11. ACCESS PANELS

THIS CONTRACTOR SHALL LOCATE AND FURNISH FOR INSTALLATION BY THE GENERAL CONTRACTOR, ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, AND THE PROPER SERVICING OF EQUIPMENT AND LINES INSTALLED UNDER THE CONTRACT.

ALL PANELS SHALL BE MILCOR, STYLE "M" FOR MASONRY, "A" FOR ACOUSTICAL TILE AND "K" FOR PLASTER; EXCEPT FOR FIRE-RATED UL 1-1/2 HOUR AND "B" LABEL ACCESS PANELS SHALL BE FURNISHED IN FIRE-RATED WALLS AND CEILINGS AS INDICATED ON THE DRAWINGS. ACCESS DOORS SHALL BE 12" X 12" MINIMUM SIZE FOR VALVES.

12. DIELECTRIC UNIONS

FOR THE PREVENTION OF ELECTROLYTIC CORROSION AT CONNECTIONS BETWEEN PIPE OF DISSIMILAR METALS OR BETWEEN PIPE AND EQUIPMENT CONNECTIONS OF DISSIMILAR METALS, PROVIDE DIELECTRIC UNIONS OR FLANGES.

13. MOTORS, STARTERS AND DISCONNECTS

UNLESS SPECIFIED TO BE FURNISHED WITH EQUIPMENT, ALL MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

14. JOINTS AND FITTINGS

THREADS ON SCREWED PIPE SHALL BE STANDARD, CLEAN BUTT AND TAPERED. PIPE SHALL BE REAMED OF BURRS AND KEPT CLEAN OF SCALE, DIRT AND SHAVINGS. TREADS SHALL BE MADE WITH FLAKED GRAPHITE AND LUBRICATING OIL OR APPROVED PIPE COMPOUND ON THE MALE THREAD ONLY.

COPPER-TO-STEEL AND COPPER-TO-BRASS JOINTS SHALL BE MADE WITH SILVER SOLDER. ALL OTHER COPPER-TO-COPPER JOINTS ABOVE GROUND SHALL BE MADE WITH LEAD FREE SOLDER. COPPER PIPE SHALL BE CUT SQUARE, BURRS REMOVED AND CARE SHALL BE GIVEN TO KEEP THE LINES FREE OF DIRT AND MOISTURE. ALL TUBING AND FITTINGS SHALL BE THOROUGHLY CLEANED.

WELDED PIPE SHALL HAVE BUTT WELDED SINGLE "V" TYPE JOINTS FOR WHICH PIPE HAS BEEN BEVELED TO 45 DEGREES. WELD SHALL BE ONE-FOURTH GREATER THICKNESS THAN THE PIPE. CONNECTIONS TO EQUIPMENT, ACCESSORIES, ETC. SHALL BE MADE BY MEANS OF FLANGES AND/OR ADAPTERS.

UNIONS SHALL BE PROVIDED AT EACH SCREWED VALVE AND UNIONS OR FLANGES AT EACH EQUIPMENT CONNECTION.

15. EXPANSION JOINTS

FURNISH AND INSTALL FLEXONICS EXPANSION JOINTS IN PIPING SYSTEM WHERE SHOWN OR NECESSARY FOR EXPANSION AND CONTRACTION.

EXPANSION JOINTS IN PIPE 4" AND GREATER SHALL BE THE PACKLESS TYPE WITH STAINLESS STEEL BELLOWS AND HAVE WELDED OR FLANGED END. JOINTS SHALL HAVE TRAVERSE AS INDICATED ON THE PLANS. EXPANSION JOINTS SHALL BE OF THE CONTROLLED FLEXING TYPE.

EXPANSION JOINTS IN COPPER PIPE UNDER 4" IN SIZE SHALL BE OF THE COMPENSATOR TYPE CONSTRUCTED OF TWO-PLY STAINLESS STEEL BELLOWS AND CARBON STEEL SHROUDS AND END FITTINGS, INTERNAL GUIDES AND ANTI-TORQUE DEVICES.

EXPANSION JOINTS IN STEEL PIPE UNDER 4" IN SIZE SHALL BE OF THE COMPENSATOR TYPE CONSTRUCTED OF TWO-PLY STAINLESS STEEL ELBOWS AND CARBON STEEL SHROUDS AND END FITTINGS, INTERNAL GUIDES AND ANTI-TORQUE DEVICES.

PROVIDE GUIDES ON EACH SIDE OF EXPANSION JOINT, AT 4 PIPE DIAMETERS, 14 PIPE DIAMETERS, AND A THIRD GUIDE AS RECOMMENDED BY THE MANUFACTURER.

16. PIPE FLEXIBLE CONNECTIONS

FLEXIBLE PIPE CONNECTIONS SHALL BE RESISTOFLEX #R6904 OR APPROVED EQUAL FLEXIBLE CONNECTIONS MADE FROM TEFLON.

PROVIDE FOR MOVEMENT IN PIPING BY USE OF SWING JOINTS AT CONNECTION OF ALL BRANCHES TO MAINS AND RISERS. ALL BRANCHES FROM MAINS AND RISERS SHALL HAVE 1/4" CLEARANCE BETWEEN PIPE INSULATION AND SLEEVE TO PERMIT PIPE MOVEMENT.

17. VALVES

THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL VALVES OF ONE MANUFACTURER, FIGURE NUMBER AND TYPE THROUGHOUT THE ENTIRE INSTALLATION OF THE WORK, UNLESS OTHERWISE SPECIFIED. THE FOLLOWING NUMBERS ARE FROM THE CRANE CATALOG. EQUAL VALVES OF REPUTABLE MANUFACTURERS, SUCH AS HAMMOND, NIBCO-SCOTT AND/OR JENKINS WILL BE CONSIDERED EQUIVALENT.

ALL VALVES SHALL BE BUILT FOR A MINIMUM OF 125 PSIG WORKING PRESSURE.

ISOLATION VALVES SHALL BE PROVIDED ON ALL INDIVIDUAL FIXTURES AND FIXTURE GROUPS.

CHECK VALVES 2-1/2" AND SMALLER SHALL BE #36 (SCREWED ENDS) OR #1342 (SOLDER-JOINT ENDS) SWING-TYPE WITH BRONZE BODY AND BRONZE TRIM.

BUTTERFLY VALVES 2" AND LARGER SHALL BE #12F, IRON BODY, CAST-IRON WAFER W/LOCK LEVER.

BALL VALVE UP TO 3" IN SIZE SHALL BE APOLLO SERIES #70 BRONZE VALVE WITH CHROME-PLATED BALL AND TEFLON SEAT.

GAS LINE COCKS UP TO 4" SHALL BE #320. 1/2 PSI FOR INDOOR APPLIANCE CONNECTIONS SHALL CONFORM TO ANSI Z21.15 AND CSA 9.1, 5 PSI FOR INDOOR SHUTOFF SHALL CONFORM TO CGA 91-002 AND ASME B16.44

HOSE END VALVES SHALL BE #438 GATE VALVES WITH HOSE END NIPPLES.

18. PIPE SLEEVES AND COLLARS

THIS CONTRACTOR SHALL LAY OUT ALL HIS WORK AND SET SLEEVES IN NEW CONSTRUCTION AS CONCRETE FORMS AND WALL ARE ERECTED SO AS TO BE ABLE TO INSTALL HIS WORK WITHOUT CUTTING OR BREAKING OF FLOORS OR WALLS. ALL SLEEVES FOR INSULATED PIPING SHALL BE LARGE ENOUGH TO ALLOW INSULATION TO PASS THROUGH SLEEVE.

ALL SLEEVES PASSING THROUGH FLOORS WHICH ARE WATERPROOFED SHALL BE COPPER TUBING SLEEVES EXTENDING 1" ABOVE FINISHED FLOOR. ALL OTHER SLEEVES SHALL BE 24 GAUGE GALVANIZED PIPES AND SLEEVES TO BE THOROUGHLY PACKED WITH WATERPROOF SEALANT AND THE REMAINING SPACE FILLED WITH MASTIC AND MUST BE WATERTIGHT.

ALL SLEEVES PASSING THROUGH INNER WALLS SHALL BE STANDARD PIPE THIMBLES EQUAL TO THE THICKNESS OF THE WALL.

SPACES BETWEEN PIPES AND SLEEVES THROUGH OUTSIDE WALLS, ABOVE GRADE, SHALL BE CAULKED WITH CAULKING COMPOUND; THOSE BELOW GRADE SHALL BE MADE WATERTIGHT.

SPACE AROUND ALL PIPING THROUGH FIRE OR SMOKE RATED PARTITIONS OR FLOORS SHALL BE SEALED AIRTIGHT WITH MATERIALS OR EQUIPMENT AS SPECIFIED UNDER FIRESTOPPING.

ALL PIPE PENETRATIONS OF SLABS ON GRADE SHALL BE WRAPPED WITH #15 BUILDING FELTS OR FOAM WRAP.

19. HANGERS

A. PIPE HANGER AND SUPPORT PRODUCTS INSTALLATION
   a. VERTICAL PIPING: MSS TYPE 8 OR 42 CLAMPS.
   b. INDIVIDUAL, STRAIGHT, HORIZONTAL PIPING RUNS: 100 FEET AND LESS: MSS TYPE 1, ADJUSTABLE, STEEL CLEVIS HANGERS. LONGER THAN 100 FEET: MSS TYPE 43, ADJUSTABLE ROLLER HANGERS. LONGER THAN 100 FEET IF INDICATED: MSS TYPE 49, SPRING CUSHION ROLLS.
   c. MULTIPLE, STRAIGHT, HORIZONTAL PIPING RUNS 100 FEET OR LONGER:MSS TYPE 44, PIPE ROLLS. SUPPORT PIPE ROLLS ON TRAPEZE.
   d. BASE OF VERTICAL PIPING: MSS TYPE 52, SPRING HANGERS.
B. SUPPORT VERTICAL PIPING AND TUBING AT BASE AND AT EACH FLOOR.
C. ROD DIAMETER MAY BE REDUCED ONE SIZE FOR DOUBLE-ROD HANGERS, TO A MINIMUM OF 3/8 INCH
D. INSTALL HANGERS FOR ALL PIPING PER MSS SP-69, MANUFACTURERS MANUALS AND AS PER HANGER SUPPORT DETAIL ON DRAWINGS
E. INSTALL SUPPORTS FOR VERTICAL COPPER TUBING EVERY 10 FEET.
F. INSTALL SUPPORTS FOR VERTICAL STEEL PIPING EVERY 15 FEET.
G. SUPPORT PIPING AND TUBING NOT LISTED IN THIS ARTICLE ACCORDING TO MSS SP-69 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

20. DAMAGE BY LEAKS

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO THE GROUNDS, WALKS, ROADS, ALL BUILDING COMPONENTS AND FINISHES, PIPING SYSTEMS, ELECTRICAL SYSTEMS AND THEIR EQUIPMENT AND CONTENT, CAUSED BY LEAKS IN THE PIPING SYSTEMS BEING INSTALLED OR HAVING BEEN INSTALLED HEREIN. ALL REPAIRS WILL BE MADE AT THIS CONTRACTOR'S EXPENSE.

21. PIPE MARKERS

FURNISH AND INSTALL BRADY #B-350 THIN FILM OR APPROVED EQUAL PIPE MARKERS. MARKERS SHALL BE 1-1/8" HIGH FOR PIPES 3" AND UNDER AND 2-1/4" HIGH FOR PIPES OVER 3". MARKERS SHALL INDICATE TYPE OF SERVICE AND DIRECTION OF FLOW.

PIPE MARKERS SHALL BE LOCATED:
- AT EQUIPMENT CONNECTIONS
- AT ACCESS DOORS
- AT BRANCH MAINS
- ON ALL ACCESSIBLE PIPE A MAXIMUM OF 75' BETWEEN MARKERS.
- AT ALL PENETRATIONS ON EITHER SIDE OF PENETRATION

22. FLOOR, WALL AND CEILING PLATES

PIPES PASSING THROUGH FLOORS AND FINISHED CEILINGS, FITTED WITH CHROME- PLATED PLATES OR ESCUTCHEONS LARGE ENOUAIN TO COMPLETELY CLOSE OPENING AROUND PIPE OR PIPE COVERING AND FLOOR SUPPORT IN THE CASE OF VERTICAL PIPING, SECURELY HELD IN PLACE; CAULK WATERTIGHT AROUND PIPE IN UNFINISHED ROOMS.

23. FIRE STOPPING

THE PENETRATIONS OF FIRE AND/OR SMOKE RATED WALLS OR FLOORS SHALL BE PROTECTED BY A UL APPROVED MATERIAL TO RETAIN THE INTEGRITY OF THE TIME-RATED CONSTRUCTION BY MAINTAINING AS EFFECTIVE BARRIER AGAINST THE SPREAD OF FLAME, SMOKE AND GASES. IT SHALL BE USED IN ALL DUCT CABLE, CONDUIT AND PIPING PENETRATIONS THROUGH FLOOR SLABS AND TIME-RATED WALLS, AND/OR FLOORS. THE RATING OF THE FIRESTOPPING SHALL EQUAL THE RATING OF THE TIME-RATED ASSEMBLY.

FIRESTOPPING MATERIAL SHALL BE 3M FIRE BARRIER SEALING SYSTEM OF APPROVED EQUAL. FIRESTOPPING MATERIAL SHALL CONSTITUTE ONE OR MORE OF THE FOLLOWING PRODUCTS:
- CAULK: CP-25
- PUTTY: #303
- WRAP/STRIP: FS195
- COMPOSITE SHEET: CS195
- PENETRATING SEALING SYSTEMS: 7900 SERIES

INSTALLATION OF FIRESTOPPING SHALL BE INSTALLED IN ACCORDANCE WITH AND IN STRICT CONFORMITY WITH MANUFACTURER'S PRINTED INSTRUCTIONS AS TO SURFACE PREPARATION, INSTALLATION AND QUALITY CONTROL. AREAS OF WORK SHALL REMAIN ACCESSIBLE UNTIL INSPECTION AND APPROVAL BY THE APPLICABLE CODE AUTHORITIES.
ON INSULATED PIPES, THE FIRE-RATING CLASSIFICATION SHALL NOT REQUIRE REMOVAL OF THE INSULATION.

QUALITY ASSURANCE:
SUBMIT MANUFACTURER'S PRODUCT DATA, LETTER OF CERTIFICATION OR CERTIFIED LABORATORY TEST REPORT THAT THE MATERIAL OR COMBINATION OF MATERIALS MEET THE REQUIREMENTS SPECIFIED IN ASTM E814 AND ARE SO CLASSIFIED IN UL'S BUILDING MATERIALS DIRECTORY. MATERIALS SHALL MEET AND BE ACCEPTABLE FOR USE BY ALL MODEL BUILDING CODES. MATERIALS SHALL MEET THE REQUIREMENTS OF NFPME61- LIFE SAFETY CODE AND NFPA 70 NATIONAL ELECTRICAL CODE.

SUBMITTALS:
SUBMIT SHOP DRAWINGS, PRODUCT DATA, CERTIFICATES AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUBMIT MANUFACTURER'S PRODUCT DATA FOR ALL MATERIALS AND PREFABRICATED DEVICES, PROVIDING DESCRIPTIONS SUFFICIENT FOR IDENTIFICATION AT THE JOB SITE. INCLUDE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.

SUBMIT SHOP DRAWINGS SHOWING PROPOSED MATERIAL, REINFORCEMENT, ANCHORAGE, FASTENINGS, AND METHOD OF INSTALLATION. CONSTRUCTION DETAILS SHALL ACCURATELY REFLECT ACTUAL JOB CONDITIONS.

24. CLEANUP AND ADJUSTMENT

ALL PARTS WORK LEFT CLEAN: EQUIPMENT, FIXTURES, VALVES, PIPES AND FITTINGS CLEANED OF GREASE AND METAL CUTTINGS. ANY DISCOLORATION OR OTHER DAMAGE TO PORTIONS OF BUILDING, ITS FINISH OR FURNISHING DUE TO THIS CONTRACTOR'S FAILURE TO PROPERLY CLEAN INTERIOR OF PIPING, REPAIRED AT THIS CONTRACTOR'S EXPENSE. ALL AUTOMATIC CONTROL DEVISES ADJUSTED FOR PROPER OPERATION. ALL SURPLUS MATERIALS AND ANY RUBBISH REMOVED AS IT ACCUMULATES. ALL EQUIPMENT LEFT IN SAFE, PROPER OPERATING CONDITION.

DAMAGE TO ANY PORTIONS MUST BE REPAIRED OF THE PART REPLACED BY THIS CONTRACTOR AND ALL PARTS LEFT WITHOUT DENTS, SCRATCHES, THROUGH THE FINISH PAINT, LOOSE PLASTER, STAINS OR OTHER BLEMISHES.

25. PIPE TESTING AND START-UP

ALL PIPING TO BE TESTED IN ACCORDANCE WITH THE FOLLOWING:
- WATER - 100 PSI WATER PRESSURE

ALL TESTING MUST HOLD FOR AT LEAST 24 HOURS WITHOUT LOSS OF PRESSURE OR VACUUM. ALL CONCEALED PIPING SHALL BE TESTED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE PRIOR TO COVERING. BEFORE STARTING ANY SYSTEM, ALL EQUIPMENT SHALL BE LUBRICATED PER MANUFACTURERS REQUIREMENTS BY THIS CONTRACTOR. TEST ENTIRE BUILDING SYSTEMS UNDER FULL LOAD CONDITIONS FOR A PERIOD OF NOT LESS THAT ONE (1) WEEK DURING WHICH TIME THE OPERATING PERSONNEL SHALL BE FULLY INSTRUCTED IN THE OPERATION AND MAINTENANCE OF THE RESTAURANT. AFTER THE RESTAURANT IS IN FULL OPERATION, THIS CONTRACTOR IS TO FURNISH WHATEVER ADDITIONAL SERVICE IS REQUIRED TO RECALIBRATE AND RESET CONTROLS, VALVES, BALANCING COCKS, ETC. TO ENSURE PROPER OPERATION OF THIS SYSTEM.

21. TESTING AND BALANCING

THIS CONTRACTOR SHALL AT THE TIME OF INSTALLATION ENSURE THAT ALL DEVICES TO COMPLETE TESTING AND BALANCING AS DIRECTED HEREIN ARE FURNISHED AND INSTALLED DURING FABRICATION AND INSTALLATION OF WORK. THIS WORK SHALL BE PERFORMED PRIOR TO TURNOVER TO BUILDING OCCUPANT AND WITH AMPLE TIME TO MAKE ANY NECESSARY REPAIRS OR CHANGES TO ACHIEVE A PROPERLY OPERATING SYSTEM. ALL TESTING AND BALANCING WILL BE DONE AT THE CONTRACTOR AND OWNERS DISCRETION.

27. SEISMIC RESTRAINTS ON MECHANICAL EQUIPMENT

ALL PLUMBING EQUIPMENT SHALL BE PROVIDED WITH SEISMIC RESTRAINING SERVICES AS REQUIRED BY LOCAL BUILDING CODES. CONTRACTOR SHALL HAVE LOCAL BUILDING OFFICE REVIEW EACH PIECE OF EQUIPMENT WHEN INSTALLED AND THE CONTRACTOR SHALL INSTALL ALL REQUIRED TIE DOWN, ANCHORS, STRAPS OR OTHER DEVICES REQUIRED.

28. GUARANTEE

THIS CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, MATERIALS, AND LABOR FURNISHED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AND SHALL REPAIR OR REPLACE ANY EQUIPMENT OR MATERIAL WHICH IS DEFECTIVE OR IMPROPERLY INSTALLED. IN ADDITION, THIS CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO THE BUILDINGS AND ITS CONTENTS OR OTHER EQUIPMENT, CAUSED BY DEFECTS OR IMPROPER INSTALLATION OF EQUIPMENT OR MATERIALS INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS.

29. TEMPORARY WATER

TEMPORARY WATER SERVICE (IF REQUIRED) TO THE BUILDING SHALL BE PROVIDED BY THIS CONTRACTOR TO THE BUILDING FOR CONSTRUCTION PURPOSES. THIS CONTRACTOR TO MAINTAIN WATER SERVICE AS REQUIRED DURING CONSTRUCTION.

30. DOMESTIC WATER SERVICE

THIS CONTRACTOR SHALL COORDINATE EXACT AVAILABLE DELIVERY PRESSURE AND PROVIDE ALTERNATE FEE FOR A PRESSURE BOOSTING SYSTEM IF PRESSURE IS LESS THAN 65PSI STATIC. PROVIDE PRESSURE REDUCING VALVE WITH STRAINER IN SERVICE LINE IF REQUIRED BY LOCAL CODES OR PRESSURE IS ABOVE 80 PSI.

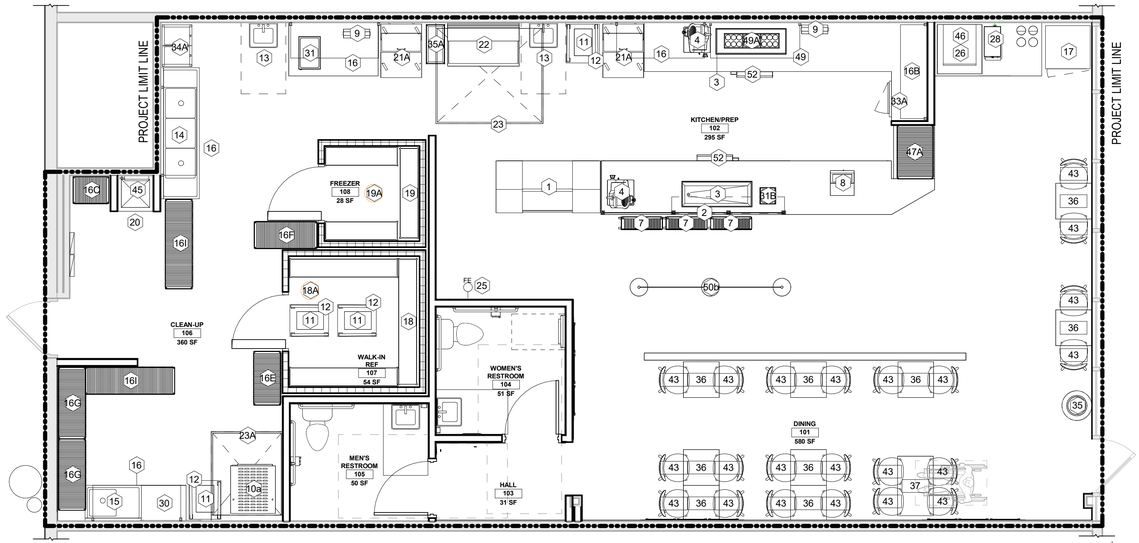
JOINTS SHALL BE CLEANED AND DEBURRED AS RECOMMENDED BY THE MANUFACTURER AND FEDERAL, STATE, AND LOCAL CODES AND PRESS FITTINGS ARE AN ACCEPTABLE IF ALLOWED BY LOCAL AHJ. WHERE PRESS FITTING S ARE NOT ALLOWED SOLDERED AS LISTED BELOW. FLUX SHALL BE NON-CORROSIVE. VICTAULIC GROVED COUPLINGS ARE ACCEPTABLE ALTERNATE IF ALLOWED BY LOCAL AHJ.

ABOVE GRADE - WHERE FITTINGS ARE SOLDERED BOTH FITTINGS AND TUBING SHALL BE CLEANED AS DESCRIBED ABOVE. UNDER NO CIRCUMSTANCES SHALL DISSIMILAR METALS COME INTO DIRECT CONTACT WITH COPPER TUBING; E.G., GALVANIZED STRAPPING, HANGERS, OR CLAMPS TO SECURE THE TUBING.

BELOW GRADE, OR FLOOR SLAB ON EARTH OR STONE FILL - HIGH TEMPERATURE, SOLDER, 1200 DEG. F OR GREATER MELTING POINT.

NOTE: WATER PIPE TO BE PROPERLY SECURED AND ALIGNED SO AS NOT TO EXERT VERTICAL OR HORIZONTAL STRESSES ON THE SEATING OF THE MATING (MALE AND FEMALE) SURFACES OF THE UNIONS.

MATERIALS - UNDERGROUND: TYPE "K" COPPER TUBE, SOFT TEMPER
MATERIALS - ABOVEGROUND: TYPE "L" COPPER TUBE, HARD DRAWN.
VIEGA, PROPRESS COPPER ½-INCH THROUGH 4-INCH WITH EPDM SEALING ELEMENT AND/OR VIEGA, PROPRESS 304 OR



F4 REFERENCE FURNITURE & EQUIPMENT PLAN
1/4" = 1'-0"

SHEET NOTES:

-	ALL FURNITURE, FIXTURES, AND EQUIPMENT IS SUPPLIED BY TENANT AND INSTALLED BY GC.
-	PROVIDE BLOCKING AT ALL WALL-MOUNTED SHELVING

FURNITURE SCHEDULE

FURNITURE FURNISHED AND INSTALLED BY THE GC.

Count	Type Mark	Description	Manufacturer	Model	SUPPLIER	Comments
9	36	TABLE TOP AND BASE	FKG, INC.	24"x24"	FKG, INC.	
1	37	TABLE TOP AND BASE	FKG, INC.	24"x45"	FKG, INC.	ADA COMPLIANT TABLETOP
22	43	CHAIRS - LOW	FKG, INC.		FKG, INC.	

EQUIPMENT SCHEDULE

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MARK	QTY	DESCRIPTION	MANUFACTURER	MODEL	SUPPLIER	POWER REQUIRED	PLUMBING REQUIRED	MISC. NOTES
1	1	6' MEATCASE	HOWARD MCCRAY	SC-CDS34N-6-JM	ECO	8.7AMP 115V/60/1		
2	1	SNEEZEGUARD	C.R. LAURENCE		GC		C.R. LAURENCE 323-588-1281 X 7710 RICARDO BASULTO	
3	2	4' DROP IN COLD UNIT	DELFIELD	N8148-EFN	ECO	7.5 AMP 115V/60/V		
4	2	SLICER	BIZERBA	GSP-H33 W/LIFT	ECO	120V/60/1		OUTLET INSTALLED AT 24"AFF, IN MILLWORK
5	1	MENU BOARD	JMFS	JMFS	GRAPHICS CO.			ORDERED WITH GRAPHICS PACKAGE
7	3	CHIP DISPLAY UNIT	PEPSI		PEPSI			
8	1	CASH REGISTER	INFOSOFT	UP700	FRANCHISEE			REG. W/ COMM. MODEM, CASH DRAWER, RECEIPT & JOURNAL (2 SETS KEYS). OUTLET INSTALLED AT 18"
9	2	PARCHMENT HOLDER						
10a	1	BREAD OVEN AND PROOFER	MOFFAT	E35D6-26	ECO	15.6 AMPS / 120 V / 1950 AMP / NEMA 5-20P		TWO OUTLETS REQUIRED. PROOFER NEMA PLUG-IN OUTLET REQUIRED AT 18"AFF. OVEN HARDWIRED CONNECTION REQUIRED AT 78"AFF. HEAT SHIELD AND WATER FILTER REQUIRED FOR USE. PROOFER MODEL #P85M12
11	36	BREAD PAN	WINCO	ALXP1826	SMALLWARES CO.			
12	4	BREAD RACK	CABRO	UPR1826FHP	FKG, INC.			W/ (2)CURTAIN COVERS, WINDOW DISPLAY, ZIPPER
13	2	HAND SINK - WALL HUNG	CHG	FS17D141005JM				
14	1	3 COMPARTMENT SINK	FIVE KIDS GROUP	FC-3JM-DB	ECO		CHG KL53-1000-AF4 PRE-RINCE SPRAYER/ ADD-A-FAUCET, KL54-8012 AUCET AND D50-7100 LEVER WASTES - QTY 3	
15	1	PREP SINK	FIVE KIDS GROUP	FC-1JM-D_	ECO		CHG KL54-8002 FAUCET	ONE COMPARTMENT SINK W/ DRAINBOARD ON EITHER THE LEFT OR RIGHT SIDE
16	4	WIRE SHELVING	METRO		ECO			
16B	4	WALL MOUNT WIRE SHELVING	METRO		ECO			
16C	1	WIRE SHELVING	METRO	18"X24"	ECO			
16E	1	WIRE SHELVING	METRO	18"X36"	ECO			
16F	1	WIRE SHELVING	METRO	18"X42"	ECO			
16G	2	WIRE SHELVING	METRO	18"X48"	ECO			
16I	2	WIRE SHELVING	METRO	18"X 60"	ECO			
17	1	1 DOOR PEPSI COOLER	PEPSI	1160	PEPSI			OUTLET INSTALLED AT 18" AFF
18	1	WALK-IN COOLER	AMERIKOOLER	VERIFY WITH ECO	ECO	115V FOR LIGHTS AND DOOR HEATER, 15 AMP BREAKER		FLOORLESS. FIELD COORDINATE POWER REQUIREMENT. DOOR PROVIDED BY VENDOR, VISION LIGHT TO BE TEMPERED OR LAMINATED.
18A	1	SELF-CONTAINED CONDENSING UNIT	AMERIKOOLER	SELF CONTAINED, VERIFY WITH ECO	ECO	CONDENSING UNIT: 208-230/ 60/1, MCA 9.3 , 15A MAX FUSE		SELF-CONTAINED SYSTEM. WILL INCLUDE PIGTAIL FOR SINGLE PORT CONNECTION - MUST BE HARDWIRED
19	1	STEP IN FREEZER	AMERIKOOLER	VERIFY WITH ECO	ECO	CONDENSING UNIT: 208-230/ 60/1, MCA (VERIFY W/ECO) , 15A MAX FUSE		DOOR PROVIDED BY VENDOR, VISION LIGHT TO BE TEMPERED OR LAMINATED
19A	1	SELF-CONTAINED CONDENSING UNIT	AMERIKOOLER	SELF CONTAINED, VERIFY WITH ECO	ECO	CONDENSING UNIT: 208-230/ 60/1, RLA (VERIFY WITH ECO), MCA 20, 15A MAX FUSE. EVAPORATOR: 208-230/60/1, 15A MAX FUSE		SELF-CONTAINED SYSTEM. WILL INCLUDE PIGTAIL FOR SINGLE PORT CONNECTION - MUST BE HARDWIRED
20	1	MOP SINK		2' X 2'	GC		1/2" SUPPLY, 1 1/2" DRAIN, VENT	MOP HANGER AND WALL GUARD
21A	2	SANDWICH UNIT	ENTREE	JM-ST27E-2DX	ECO	115V/60/1		
22	1	GRIDDLE	IMPERIAL	IR-G48T-XB-JMII	ECO		CONFIRM NATURAL OR LP GAS	
23	1	EXHAUST HOOD SYSTEM & FIRE SYSTEM	CAPTIVE AIRE	ANSUL	ECO	(4) 115V	FIRE SYSTEM ANSUL	
23A	1	CONDENSATE HOOD	CAPTIVE AIRE	5424VHB	ECO	(1) 115V		
25	1	PORTABLE FIRE EXTINGUISHERS			GC			
26	1	DRINK DISPENSER & ADAPTER KIT	PEPSI	DISPENSER: IDC255, ADAPTOR: 80002957	PEPSI	9.3AMP 115V/60/1	1/2" SUPPLY, CONDENSATION DRAIN	COORDINATE W/ PEPSI. OUTLET INSTALLD AT 42" AFF
28	1	ICED TEA BREWER/DISPENSER	BUNN	TB3Q	LUZIANNE	120V, 14.4 AMP		1-800-627-2094. OUTLET INSTALLED AT 42" AFF
30	1	SS. PREP TABLE OR MILLWORK	UNIVERSAL OR GC	KMG-30_-JM	ECO OR GC			
31	1	COUNTER TOP FOOD WARMER	HOSHIZAKI	71001 MODEL 1001	SMALLWARES CO.	120V, 5.8 AMP		OUTLET INSTALLED AT 42"
31B	1	RECESSED BACON WARMER	MARSHALL	JM8001K	FKG, INC.	120V, 3.5 AMP		NO DRAIN. 14/3 CORD WITH NEMA 5-15 PLUG. OUTLET INSTALLED AT 18" AFF.
33A	1	UNDER-COUNTER REFRIGERATOR	HOSHIZAKI	CZ3N-1	ECO	2.6AMPS 5-15P		
34A	1	BULK CO2	AIRGAS	CARBO-MIIZER 550	AIRGAS	120V		OUTLET INSTALLED AT 12"AFF
35	1	REFUSE CONTAINER	ALPINE	470-65L	SMALLWARES CO.			STAINLESS STEEL FINISH
35A	1	SLIM JIM REFUSE CONTAINER	RUBBERMAID	11"x20"	FKG, INC.			
45	1	WATER HEATER	See Plumbing Drawings	See Plumbing Drawings				
46	1	ICE MAKER	HOSHIZAKI	KM-520MAJ	ECO	115V/60 20AMP BREAKER	PROVIDE DRAIN	
47A	1	PICK UP TOWER	METRO	24"X36"	ECO			CUSTOM METRO SHELVING 63"H, 24"D, 36"L
49	1	JUICE SHELVING	METRO		FKG, INC.			
49A	1	JUICE CRATES	FIVE KIDS GROUP, INC.	JMFS				
50b	1	STANCHION DIVIDER	VISIONTRON	VS301 (BLACK)	FKG, INC.			(3) DIVIDERS REQUIRED FOR 8' SPAN. WWW.CROWDCONTROLWAREHOUSE.COM, SINGLE LINE 7-5'
52	2	TROUGH	FIVE KIDS GROUP, INC.	24" TROUGH				

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JERSEY MIKES - KANSAS CITY
15 NW Barry Rd
Kansas City, MO 64118

#	Description	Date
1	CITY COMMENTS	10/21/2026

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Missouri Corporate Authority Number #814.
Missouri Architect in responsible Charge - Ronald Melvin Reim AR-5489.

STATE OF MISSOURI
BRIAN JOHN KUNKEL
NUMBER A-2001167
ARCHITECT

ISSUED FOR PERMIT

Client Approval

REFERENCE FURNITURE PLAN

Project #	43426-MO01
Issue Date	10/09/2026
Scale	1/4" = 1'-0"
Drawn by	BJK
Checked by	MMR

R1.1

10/3/2025 5:26:47 PM JERSEY MIKES - KANSAS CITY