Joe Frogge

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

Development Services Department
Lee's Summit, Missouri
08/27/2024

NICK THE GREEK TENANT INFILL

STREETS OF WEST PRYOR LOT 13

TENANT SPACE "C" 1020 NW PRYOR RD
LEE'S SUMMIT, MO

GENERAL NOTES

1 ALL CONSTRUCTION AND INSTALLATIONS SHALL MEET THE REQUIREMENTS OF APPLICABLE CODES AND ORDINANCES

2 CONTRACTOR AND SUBCONTRACTORS TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO FABRICATIONS AND INSTALLATIONS

3 ALL MATERIAL SHALL BE NEW AND UNUSED UNLESS INDICATED OTHERWISE; CONSTRUCTION, INSTALLATIONS, FIT, AND FINISHES SHALL EXHIBIT FIRST CLASS WORKMANSHIP

4 DRAWINGS INDICATE DESIGN INTENT ONLY: OPERATIONS, METHODS, AND INSTALLATIONS SOLE RESPONSIBILITY OF GENERAL AND SUB CONTRACTORS

5 UNLESS NOTED OR INDICATED OTHERWISE DIMENSIONS ARE TO FACE OF FINISHED WALLS AND OTHER VERTICAL ELEMENTS

6 SUBCONTRACTORS SHALL VISIT PROJECT SITE, ACQUAINT THEMSELVES WITH AND VERIFY EXISTING CONDITIONS PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK - NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES DISCOVERED

7 DO NOT SCALE DRAWINGS - PERFORM LAYOUTS FROM DIMENSIONS ONLY - NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES DISCOVERED

8 UNLESS INDICATED OTHERWISE, NEW WALL CONSTRUCTION NOT SPECIFICALLY DIMENSIONED ALIGNS WITH EXISTING CONSTRUCTION

9 EACH TRADE RESPONSIBLE FOR PROTECTING EXISTING WORK IN PLACE FROM DAMAGE AND RESPONSIBLE FOR REPAIRING TO ORIGINAL CONDITION ANY AFFECTED MATERIALS AND/OR INSTALLATIONS INCLUDING EXISTING LANDSCAPING

10 SUBCONTRACTORS SHALL COORDINATE THEIR WORK WITH THAT OF OTHER TRADES

11 SUBCONTRACTORS SHALL REMOVE DAILY FROM PREMISES TRASH, WASTE, AND DEBRIS GENERATED FROM THEIR WORK

12 ALL WORK SHALL CONFORM WITH LATEST PUBLISHED SAFETY STANDARDS AS ESTABLISHED BY OSHA AND ANSI

13 PROCEDURE WITH WORK CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS . SUBSTRATES

14 PREMISES SHALL BE LEFT FULLY CLEANED AND READY FOR OWNER ACCEPTANCE AT COMPLETION OF WORK

15 ALL MATERIALS AND ASSEMBLIES TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER REQUIREMENTS AND INDUSTRY STANDARDS UNLESS SPECIFICALLY INDICATED OTHERWISE

16 THE CONTRACTOR SHALL ADHERE TO THE CONSTRUCTION DOCUMENTS. SHOULD ANY ERROR OR INCONSISTENCY APPEAR REGARDING THE MEANING OR INTENT OF THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL IMMEDIATELY REPORT SAME TO THE ARCHITECT WHO WILL MAKE ANY NECESSARY CLARIFICATION, OR REVISIONS AS REQUIRED.

17 CONTRACTOR AND HIS SUBCONTRACTORS AND AGENTS SHALL HOLD ALL APPLICABLE AND REQUIRED LICENSES FOR THE JURISDICTION WHERE THE WORK WILL BE PERFORMED.

18 TO ENSURE COORDINATION BETWEEN DISCIPLINES, CONTRACTOR SHALL SUPPLY EACH SUBCONTRACTOR OR AGENT WITH A FULL SET OF CONSTRUCTION DOCUMENTS FOR THEIR USE.

19 ALL WORK LISTED, SHOWN OR IMPLIED IN THE CONSTRUCTION DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR EXCEPT WHERE OTHERWISE NOTED. THE CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS AND VENDORS TO ASSURE THAT ALL SCHEDULES ARE MET AND THAT ALL WORK IS DONE IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS.

20 CONTRACTOR SHALL PROTECT THE EXISTING CONSTRUCTION AND REPAIR ANY DAMAGE OCCURRING AS A RESULT OF THEIR OPERATIONS AT NO COST TO THE TENANT OR LANDLORD. CONTRACTOR SHALL ALSO ENSURE THAT THEIR OPERATIONS DO NOT INTERFERE WITH THE OPERATION OF THE REMAINDER OF THE DEVELOPMENT/MALL. BARRIERS TO NOISE, DUST AND SECURITY BETWEEN CONSTRUCTION AREAS AND PUBLIC AREAS SHALL BE ERECTED, MAINTAINED AND REMOVED PER THE DEVELOPMENT CRITERIA BY THE CONTRACTOR.

21 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FITTING NECESSARY TO ACHIEVE THE INTENT OF THE CONSTRUCTION DOCUMENTS

22 ALL AREAS OF EXISTING LANDSCAPING DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION.

23 CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES IN THE FIELD AND PROVIDE ADDITIONAL UTILITY SERVICE AS REQUIRED TO MEET THE SCOPE AND INTENT OF THE WORK AND PROVIDE ALL UTILITY CONNECTIONS (PLUMBING, ELECTRICAL, GAS, ETC. IN THE FORM OF SUPPLY AND DRAIN PIPES, CONDUIT AND PULLING WIRES, ETC.) RELATED TO EQUIPMENT AND APPLIANCES.

24 CONTRACTOR SHALL COORDINATE THE DELIVERY AND STORAGE OF EQUIPMENT WITH EQUIPMENT SUPPLIER AND TAKE MEASURES TO ENSURE THE PROTECTION OF EQUIPMENT FROM DAMAGE DURING THE CONSTRUCTION PHASE PRIOR TO AND AFTER EQUIPMENT INSTALLATION.

25 CONTRACTOR SHALL PROVIDE DRAFT/FIRE STOPS, AS REQD BY GOVERNING CODES AND JURISDICTIONS. NEW AND EXISTING PENETRATIONS IN FIRE-RATED PARTITIONS OR DRAFT STOPS SHALL BE PROTECTED BY A SYSTEM LISTED BY A RECOGNIZED TESTING AGENCY.

26 PROVIDE FIRE EXTINGUISHERS PER APPLICABLE CODES. VERIFY FINAL LOCATION WITH A.H.J.

27 CONTRACTOR SHALL REVIEW THE DIMENSIONS OF ALL EQUIPMENT IN THE PROJECT REGARDLESS OF THE SOURCE AND COORDINATE ACCESS TO THE SPACE AND VERIFY CLEAR FLOOR SPACE & APPROPRIATE CLEARANCE IS PROVIDED AS REQUIRED TO ENSURE EASE OF INSTALLATION.

28 ALL JOINTS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED IN ACCORDANCE WITH THE BUILDING CODE AND ENERGY CODE.

29 ALL WOOD IN CONTACT WITH CONCRETE MASONRY SHALL BE PRESSURE TREATED, MOISTURE RESISTANT WOOD.

30 CONTRACTOR SHALL PROVIDE WOOD BLOCKING, BRACING AND NAILERS AS REQ'D FOR MILLWORK, EQUIPMENT, SHELVING, ETC. COORDINATE WITH TENANT.

31 ALL MILLWORK, CONTRACTOR TO COORDINATE PLUMBING AND ELECTRICAL W/ MILLWORK SUPPLIER

32 ALL SURFACES WHICH ARE INDICATED TO BE FINISHED OR PAINTED SHALL BE PREPARED, SANDED, TREATED, AND PRIMED IN STRICT ACCORDANCE WITH COMMERCIAL QUALITY STANDARDS, AND IN STRICT ACCORDANCE WITH FINISH MATERIAL MANUFACTURER'S INSTRUCTIONS.

33 PROVIDE OCCUPANCY SIGN IN A CONSPICUOUS LOCATION IN ACCORDANCE WITH STATE & LOCAL CODES.

DRAWING SYMBOLS

- NORTH ARROW INDICATOR
- X — DRAWING KEYNOTE TAG
- X — WALL TYPE TAG
- X — DOOR TAG
- X — FINISH NOTE TAG
- X — WINDOW TAG
- SPOT TAG
- X — REVISION TAG
- X / X'-X" — CEILING MATERIAL AND HEIGHT TAG
- X / X — ROOM NAME AND NUMBER TAG
- X — SECTION CUT TAG
- X — ELEVATION TAG
- XXXX / XXXX / XXXX / XXXX — 4-WAY ELEVATION TAG
- ? — COLUMN GRID
- T.O. SLAB ELEV. 100'-0" — ELEVATION HEIGHT TAG
- X — DETAIL BOX TAG
- XXXX — DETAIL TAG

ABBREVIATIONS

AFF	Above Finished Floor	FE	Fire Extinguisher	PL	Plate
ACT	Acoustical Ceiling Tile	FEC	Fire Extinguisher & Cabinet	PLAM	Plastic Laminate
ACOUST	Acoustical	FFE	Furniture, Fixtures & Equipment	PLYWD	Plywood
ADJ	Adjustable	FIN	Finish	PLUMB	Plumbing
ALUM	Aluminum	FLUOR	Fluorescent	PNL	Panel
AMB	Air-moisture barrier	FLR	Floor	PR	Pair
ANC	Anchor	FRP	Fiberglass Reinforced Plastic	PREP	Preparation
ANOD	Anodized	FRT	Fire Retardant Treated	PREFIN	Prefinished
ARCH	Architect(ural)	FS	Floor Sink	PTD	Painted
ASSY	Assembly	FSE	Food Service Equipment	QT	Quarry Tile
BD	Board	FT	Feet	QTY	Quantity
BFG	Below Finished Grade	FV	Field Verify	RA	Return Air
BFF	Below Finished Floor	GA	Gage	RAD	Radius
BLDG	Building	GALV	Galvanized	RCP	Reference
BLKG	Blocking	GC	General Contractor	REF	Receptacle
BM	Beam	GL	Glass	RECPT	
BOT	Bottom	GYP BD	Gypsum Board	REFL	
BRG	Beaning	HC	Hollow Core	REINF	
BS	Both Sides	HM	Hollow Metal	RELOC	Relocate
BTWN	Between	HT	Height	REQ'D	Required
CAB	Cabinet	HDWD	Hardwood	REV	Revision, Reversed
CJ	Control Joint	HR	Hour	RO	Rough Opening
℄	Center Line	HVAC	Heating, Ventilation and Air Conditioning	RTU	Roof Top Unit
CLG	Ceiling	IN	Inch	SC	Solid Core
CLO	Closet	INSUL	Insulation, Insulate	SF	Square Foot
CLR	Clear	INT	Interior	SHT	Sheet
CMU	Concrete Masonry Unit	JST	Joist	SHTH	Sheathing
COL	Column	LAM	Laminated	SS	Stainless Steel
CONC	Concrete	LAV	Lavatory	SCHED	Schedule
CONT	Continuous	LLH	Long Leg Horizontal	SIM	Similar
CONST	Construction, Construct	LLV	Long Leg Vertical	SM	Sheet Metal
CT	Ceramic Tile	MANUF	Manufacturer	SPEC'D	Specified
DBL	Double	MAX	Maximum	STD	Standard
DEMO	Demolition	MECH	Mechanical	STL	Steel
DIA	Diameter	MEP	Mechanical, Electrical, and Plumbing	STRUCT	Structural
DN	Down	MILL	Millwork	SUSP	Suspended
DR	Door	MIN	Minimum	TBD	To be determined
DS	Downspout	MISC	Miscellaneous	TEMP	Tempered
DTL	Detail	MLD	Molding	T&B	Top and Bottom
DWG	Drawing	MO	Masonry Opening	TYP	Typical
EA	Each	MTD	Mounted	VCT	Vinyl Composition Tile
EIFS	Exterior Insulation and Finish System	MTL	Metal	VERT	Vertical
EF	Exhaust Fan	MUL	Mullion	VWC	Vinyl Wall Covering
EJ	Expansion Joint	NIC	Not In Contract	UNO	Unless Noted Otherwise
EL	Elevation	NOM	Nominal	W/	With
ELEC	Electrical	NTS	Not To Scale	W/O	Without
ELEV	Elevator	OC	On Center	WC	Water Closet
EQ	Equal	OD	Outside Diameter	WD	Wood
EQUIP	Equipment	OFCI	Owner Furnished, Contractor Installed	WH	Water Heater
EW	Each Way	OPNG	Opening	WDW	Window
EWC	Electric Water Cooler	OPP	Opposite	WP	Waterproofing or Waterproof
EXIST	Existing	OPT	Optional	WSCT	Wainscot
EXP	Expansion	OTS	Open to Structure	WT	Weight
EXT	Exterior	PBD	Particle Board	WWF	
FBD	Fiber Board				
FBO	Furnished by Others				
FD	Floor Drain				

CODE DATA

APPLICABLE CODES: ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS AND DRAWINGS, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNING BODIES INVOLVED. ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR INVOLVED. APPLICABLE CODES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

BUILDING CODE	2018 INTERNATIONAL BUILDING CODE
ELECTRICAL CODE	2017 NATIONAL ELECTRICAL CODE
MECHANICAL CODE	2018 INTERNATIONAL MECHANICAL CODE
PLUMBING CODE	2018 INTERNATIONAL PLUMBING CODE
FIRE PROTECTION	2018 INTERNATIONAL FIRE CODE . NFPA 13
ACCESSIBILITY	2009 ACCESSIBLE AND USABLE BUILDING AND FACILITIES ICC/ANSI1117.1
USE GROUP	A2 - ASSEMBLY
[CALCULATED TO EXTERIOR FACE OF PERIMETER WALLS & CENTER OF DEMISING WALLS]	
CONSTRUCTION TYPE	V-B -SPRINKLERED.

OCCUPANT LOAD:

GROSS TENANT AREA: EXISTING= 1,999 SF (GROSS)

KITCHEN (200)=	788 / 200 = 4
STANDING (5)=	15/5 = 3
STORAGE/ ACCESSORY (300)=	518/ 300 = 2
UNCONCENTRATED TABLES W/ CHAIRS (15)=	638 / 15 = 43
TOTAL OCCUPANT LOAD=	52

EXIT CALCULATION:

OCC. LOAD 52 = 2 REQ'D. EXIT
PROVIDED= 2 EXIT

EXIT WIDTH:
52 OCCUPANTS X .2 = 10.2 INCHES
PROVIDED = 68 INCHES

PLUMBING CALCULATIONS:

-AUTOMATIC SPRINKLER SYSTEM MODIFICATIONS TO BE DESIGN BUILD. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW TO AHJ AND TO DESIGNERS.

TOILET FIXTURE COUNT:

WOMEN W.C. FIXTURES (52/2=26)= 1 REQ'D. FIXT.
PROVIDED= 1 W.C.

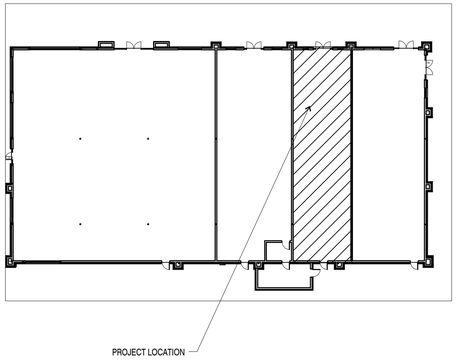
MEN W.C. FIXTURES (52/2=26)= 1 REQ'D. FIXT.
PROVIDED= 1 W.C

WOMEN / MEN LAVATORIES
52/2=26 1 REQ'D. FIXT.
PROVIDED= 2 LAVATORIES

MOP SINKS
1 REQ'D. MOP SINK
PROVIDED= 1 MOP SINK

PROJECT LOCATION KEY

SHOPPING CENTER KEY



DRAWING INDEX

ARCHITECTURAL:

MEP:

David Eskov
Architect
21466 w 120th st
Olathe, KS 66061
eskovarch@outlook.com
913-284-3660

STATE OF MISSOURI
DAVID L ESKOV
NUMBER A-2021003214
ARCHITECT

DATE SIGNED 6/13/24

ADA Compliance Certification

To best of my professional knowledge, the facility as indicated is in compliance with the Americans with Disabilities Act, including the current ADA Title III Design Guidelines.

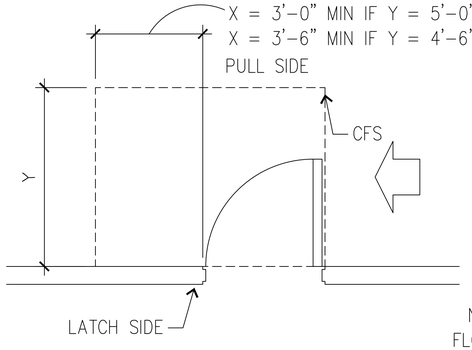
David Eskov

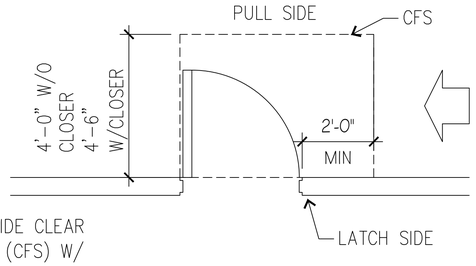
PERMIT
JUNE 13, 2024

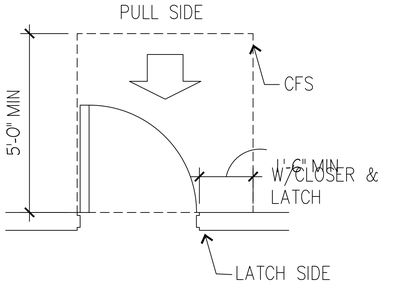
Revisions

RESTAURANT TENANT INFILL
NICK THE GREEK
STREETS OF WEST PRYOR
TENANT SPACE "C" 1020 NW PRYOR RD
LEE'S SUMMIT, MO

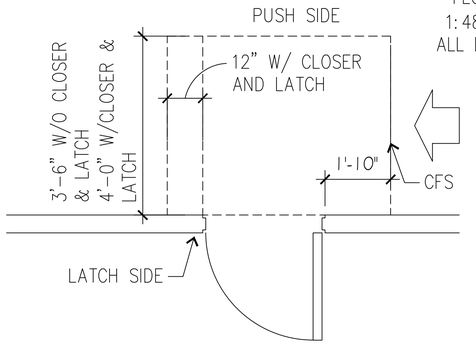
sheet
A0.0
Cover Sheet



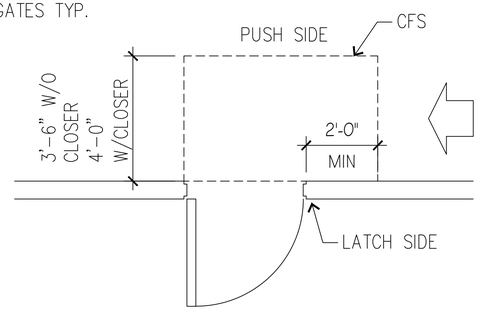




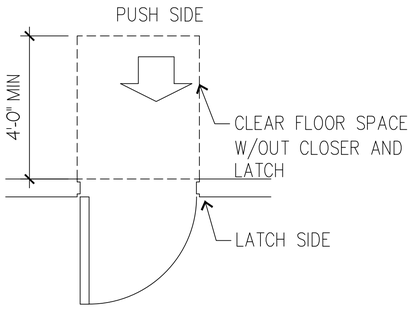
NOTE: PROVIDE CLEAR FLOOR SPACE (CFS) W/ 1:48 (2%) MAX SLOPE @ ALL DOOR OR GATES TYP.



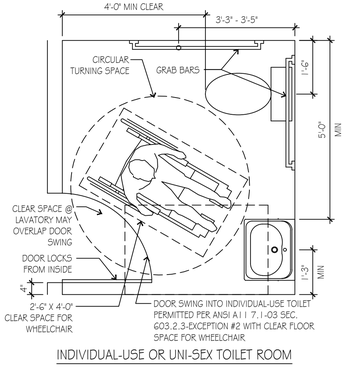
HINGE SIDE APPROACH – SWINGING DOOR OR GATE



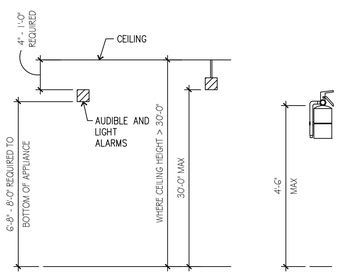
LATCH SIDE APPROACH SWINGING DOOR OR GATE



FRONT APPROACH – SWINGING DOOR OR GATE

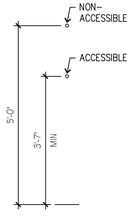


INDIVIDUAL-USE OR UNI-SEX TOILET ROOM



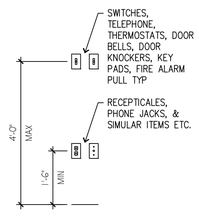
LOCATION OF CEILING/WALL MOUNTED APPLIANCES

FIRE EXTINGUISHER

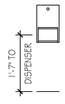


DOOR VIEWERS

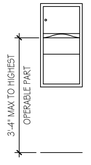
(PROVIDE 1 OF EACH WHERE REQUIRED)



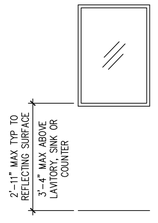
SWITCHES



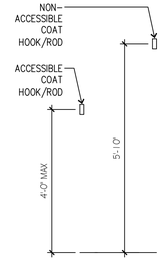
TOILET PAPER DISPENSER



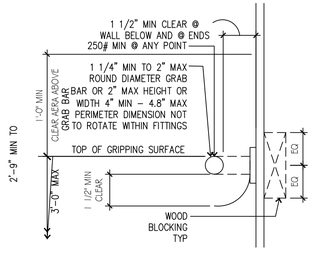
PAPER TOWEL DISPENSER/DISPOSAL



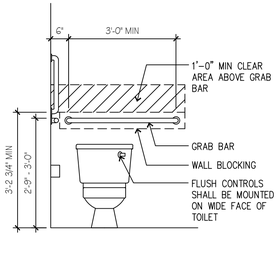
ACCESSIBLE MIRROR



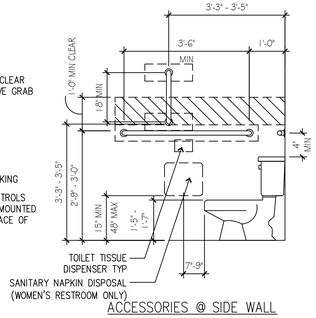
COAT HOOK OR ROD



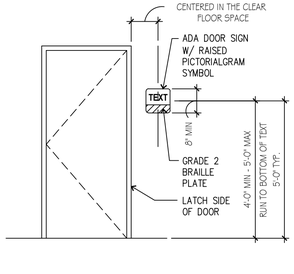
GRAB BAR DETAIL TYP



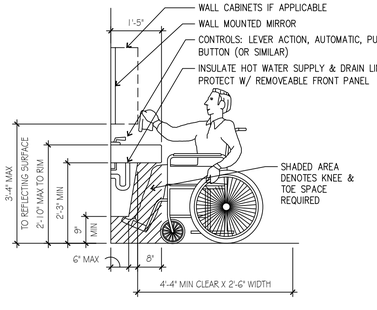
GRAB BAR @ BACK WALL OF WATER CLOSET



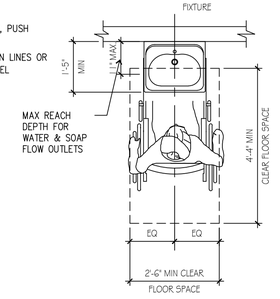
ACCESSORIES @ SIDE WALL OF WATER CLOSET



RESTROOM ACCESSIBLE SIGNAGE



SIDE VIEW



PLAN VIEW

ACCESSIBLE ROUTE WITHIN BUILDING:

SPACES WITHIN BUILDINGS: PROVIDE AN ACCESSIBLE ROUTE TO EACH SPACE OR PORTION WITHIN A BUILDING, TO ACCESSIBLE BUILDING ENTRANCES - NOT PASSING THROUGH KITCHENS, STORAGE ROOMS, RESTROOMS CLOSETS OR SIMILAR SPACES (IF ONLY ONE ACCESSIBLE-ROUTE IS PROVIDED).

CONSTRUCT WORK AREAS USED ONLY BY EMPLOYEES SO THAT INDIVIDUALS WITH DISABILITIES CAN APPROACH, ENTER, AND EXIT THE AREA (EXCEPT AT WORK-AREAS LESS THAN 150 SF AND ELEVATED SEVEN (7) INCHES OR MORE ABOVE GROUND OR FINISH FLOOR - WHEN THE RAISED ELEVATION IS ESSENTIAL TO THE FUNCTION OF THE WORK-AREA - PER IBC).

PROVIDE ACCESSIBLE ROUTES AT ALL COMMON-USE CIRCULATION PATHS WITHIN EMPLOYEE WORK AREAS UNLESS WORK AREA IS LESS THAN 300 SF AND DEFINED BY PERMANENTLY INSTALLED PARTITIONS, COUNTERS, CASEWORK OR FURNISHINGS

ACCESSIBILITY IS NOT REQUIRED TO NON-OCCUPIED SPACES ACCESSED ONLY BY LADDERS, CATWALKS, CRAWL SPACES OR FREIGHT (NON-PASSENGER) ELEVATORS THAT ARE FREQUENTED ONLY BY SERVICE PERSONNEL FOR MAINTENANCE PURPOSES, INCLUDING BUT NO LIMITED TO ELEVATOR PITS, ELEVATOR PENTHOUSES, AND PIPING OR EQUIPMENT CATWALKS.

ACCESSIBLE-ROUTE WITHIN BUILDING:

ACCESSIBLE-ROUTES MAY CONSIST OF ONE OR MORE OF THESE COMPONENTS:
WALKING SURFACES
RAMPS
DOORS AND DOORWAYS
ELEVATORS AND PLATFORM LIFTS

MINIMUM CORRIDOR WIDTH: 3'6"

MINIMUM WIDTH OF ACCESS AISLES: 3'-0"

CARPETED WALKING SURFACES: BROADLOOM OR CARPET-TILE WITH FIRM CUSHION/PAD (OR WITHOUT CUSHION # PAD) WITH LEVEL LOOP, TEXTURED LOOP, LEVEL CUT, OR LEVEL CUT/UNCUT PILE TEXTURE WITH 1/2 INCH MAX PILE-HEIGHT. SECURELY ATTACH TO SUBSTRATE AND PROVIDE BEVELED EDGE-TRIM ALONG ENTIRE LENGTH OF EXPOSED EDGE PER ABOVE.

AREA-OF-RESCUE ASSISTANCE

PROVIDE AN "AREA-OF-RESCUE-ASSISTANCE" AT NON-ACCESSIBLE EXIT-DISCHARGE DOORS - EXCEPT IN BUILDINGS WITH A SUPERVISED AUTOMATIC FIRE-SUPPRESSION SYSTEM.

MINIMUM SIZE: PROVIDE MINIMUM OF TWO (2) EA 2'-6" X 4'-4" AREAS OR ONE (1) EACH PER 200 OCCUPANTS PER STORY SERVED NOT ENCROACHING ON ANY REQUIRED EXIT WIDTH

TOILET ROOMS OR COMPARTMENTS:

UNI-SEX TOILET ROOM: PROVIDE AN ACCESSIBLE FACILITY WITH A SINGLE WATER-CLOSET AND LAVATORY IN ANY MERCANTILE OR ASSEMBLY OCCUPANCIES WHERE A TOTAL OF SIX (6) OR MORE MALE AND FEMALE WATER-CLOSETS ARE REQUIRED (PER IBC)

PROVIDE UNI-SEX AND SINGLE-USE TOILET ROOMS WITH DOOR LOCKING FROM INSIDE

WATER-CLOSET COMPARTMENTS: PROVIDE A MINIMUM OF ONE (1) WHEELCHAIR-ACCESSIBLE COMPARTMENT AND WHEN OVER SIX (6) WATER-CLOSETS + URINALS ARE PROVIDED IN A TOILET ROOM, PROVIDE ONE (1) TO BE AMBULATORY-ACCESSIBLE IN ADDITION TO THE WHEELCHAIR-ACCESSIBLE UNIT.

SINKS: PROVIDE NO LESS THAN ONE (1) ACCESSIBLE SINK (OR 5% OF TOTAL) WHERE PROVIDED (MOP OR SERVICE-SINKS ARE NOT REQUIRED TO BE ACCESSIBLE)

DRINKING FOUNTAINS:

IF ONLY ONE DRINKING FOUNTAIN IS PROVIDED IN A SPACE OR BUILDING, PROVIDE A "DUAL HI-LOW" TYPE UNIT ACCESSIBLE TO BOTH WHEELCHAIR USERS AND TO PERSONS WITH DIFFICULTY BENDING OR STOOPING (STANDARD HEIGHT UNIT) OR OTHER MEANS TO ACHIEVE EQUIVALENT ACCESSIBILITY FOR BOTH (PROVIDING AN ACCESSIBLE WATER COOLER, FOR EXAMPLE).
PROVIDE DRINKING FOUNTAINS IN ALCOVE OUT OF COMMON PATH OF TRAVEL
SPACING BETWEEN DRINKING FOUNTAINS: 2'-3" (27") MINIMUM

ACCESSIBLE ELEVATORS:

MINIMUM CAR SIZE:
DEPTH: 4'-3" TO FRONT WALL - 4'-6" TO DOOR
WIDTH: 50 OR MORE OCCUPANTS: 6'-8" MIN (STRETCHER TYPE)
UNDER 50 OCCUPANTS: 4'-6" MIN

MINIMUM DOOR WIDTH:
50 OR MORE OCCUPANTS: 3'-6" MIN
UNDER 50 OCCUPANTS: 2'-10" MIN

HANDRAIL AT REAR: LOCATE BETWEEN 2'-6" TO 2'-10" AFF

ELEVATOR CONTROLS:
LOCATE BETWEEN 2'-11" MIN AND 4'-6" AFF MAXW
PROVIDE EMERGENCY PHONE @ 4'-0" AFF MAX WITH 2'-5" MIN CORD LENGTH
HALL-CALL BUTTONS: CENTER AT 3'-6" AFF
HALL LANTERNS: 6'-0" (72 INCH) AFF - VISUAL AND AUDIBLE
FLOOR INDICATOR SIGNS: 2" HIGH CONTRASTING LETTER SIGN WITH BRAILLE ON SIDE OF DOOR JAMB AT 60" AFF

ACCESSIBLE SEATING:

WHEN PROVIDED AT FIXED OR BUILT-IN TABLES, COUNTERS OR WORK SURFACES, PROVIDE 5% MINIMUM BUT NOT LESS THAN ONE (1) ACCESSIBLE SEATING, DISTRIBUTED THROUGHOUT.

POINT-OF-SALE (POS) OR SERVICE COUNTERS: PROVIDE NOT LESS THAN ONE (1) UNIT TO BE ACCESSIBLE DISPERSED THROUGHOUT IF COUNTERS ARE DISPERSED.

SIGNAGE:

REQUIRED ACCESSIBLE SIGNS (MINIMUM) EXCEPT AT BUILDING DIRECTORIES, MENU BOARDS, OR TEMPORARY SIGNS PROVIDE ACCESSIBLE SIGNS AS FOLLOWS:

ACCESSIBLE ENTRANCES: PROVIDE A 4 X 4" ACCESSIBILITY DECAL AT ALL ACCESSIBLE PUBLIC ENTRANCE DOORS CENTERED AT 60" AFF.

NON-ACCESSIBLE PUBLIC ENTRANCES: PROVIDE DIRECTIONAL SIGNS INDICATING LOCATION OF NEAREST ACCESSIBLE ENTRANCE.

NON-ACCESSIBLE TOILET ROOMS: PROVIDE DIRECTIONAL SIGNS INDICATING LOCATION OF NEAREST ACCESSIBLE UNITS.

ROOM (OR SPACE) SIGNS (INCLUDING TOILET ROOMS): PROVIDE RAISED PICTOGRAMS, TACTILE CHARACTERS AND BRAILLE TEXT.

ACCEPTABLE CHARACTERS: UPPER-CASE, LOWER-CASE, OR A COMBINATION OF BOTH IN A SANS-SERIF CONVENTIONAL STYLE - NO ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE OR OTHER UNUSUAL FORMS

FINISH & CONTRAST: NON-GLARE WITH EITHER LIGHT CHARACTERS ON DARK BACKGROUND OR DARK CHARACTERS ON LIGHT BACKGROUND

ILLUMINATION LEVEL AT ACCESSIBLE SIGNS: MINIMUM 110 FOOTCANDLES

PROVIDE CLEAR FLOOR AREA OF 18 X 18 INCHES CENTERED ON TACTILE CHARACTER SIGNS BEYOND ARC OF DOOR SWING FROM CLOSED TO 45 DEGREE OPEN POSITION

BRAILLE: CONTRACTED (GRADE 2) WITH INDICATION OF AN UPPERCASE LETTER ONLY BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS, AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, OR ACRONYMN.

ALARMS:

IF EMERGENCY WARNING SYSTEMS ARE PROVIDED, PROVIDE BOTH AUDIBLE AND VISUAL ALARMS IN ANY COMMON-USE AREAS, (INCLUDING BUT NOT LIMITED TO RESTROOMS, MEETING ROOMS, HALLWAYS, AND LOBBIES). PERMANENTLY CONNECT ALARM SYSTEMS TO THE BUILDING ELECTRICAL POWER AND LIGHTING SYSTEM AS APPROPRIATE.

IF AUDIBLE ALARMS ARE PROVIDED, THEY MUST PRODUCE SOUND EXCEEDING THE PREVAILING EQUIVALENT SOUND LEVEL OF A SPACE BY AT LEAST 15 dbA OR EXCEED ANY MAXIMUM SOUND LEVEL WITH A DURATION OF 60 SECONDS BY 5 dbA, WHICHEVER IS LOUDER (NOT EXCEEDING 120dbA).

IF VISUAL ALARMS ARE PROVIDED, PROVIDE UNFILTERED OR CLEAR-FILTERED WHITE XENON-STROBE TYPE LAMPS OR EQUIVALENT, WITH 0.2 SECOND MAXIMUM PULSE DURATION AND MAXIMUM DUTY CYCLE OF 40 PERCENT, PROVIDING A MINIMUM BRIGHTNESS INTENSITY OF 75 CANDELA WITH A FLASH RATE BETWEEN 1 AND 3 Hz. LOCATE UNITS NO MORE THAN 6'-0" (80") AFF OR 6" BELOW CEILING (WHICHEVER IS LOWER). LOCATE 50 FEET MAXIMUM FROM ANY POINT WITHIN A SPACE OR COMMON CORRIDOR, OR IN LARGE SPACES OVER 100 FEET ACROSS (SUCH AS AUDITORIUMS) WITHOUT OBSTRUCTIONS 6 FT AFF, LOCATE AROUND ROOM PERIMETER AT MAXIMUM 100 FT CENTERS. ALL STROBES IN ROOM MUST BE SYNCHRONIZED.

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DATE SIGNED 6/13/24

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PERMIT
JUNE 13, 2024

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STREETS OF WEST PRYOR
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LEE'S SUMMIT, MO

sheet
A1.0
GENERAL ADA

EQUIPMENT SCHEDULE

Item No	Qty	Equipment Category	Manufacturer (or equal)	Model Number (or equal)	Equipment Remarks	Weight (lb)	Amps	KW	HP	Volts	Phase	Direct	Plug	NEMA	Cold Water Size (in)	Hot Water Size (in)	Direct Drain Size (in)	Indir Drain Size (in)	Gas Size (in)	MBTUH
1	3	BROILER, VERTICAL	UNIWORLD	VBR-2E		69	2			110	1		X	5-15P					0.75	25
1A	1	TABLE, WORK	TURBO AIR	TSW 3072SB	SEE NOTE 4	74														
2	1	PEPSI COOLER	QBD COOLING SYSTEMS	CD12-HC																
3	1	GRIDDLE, GAS	AMERICAN RANGE	ARMG-48		365													0.75	120
4	1	CHARBROILER, GAS	AMERICAN RANGE	AERB-24		193													0.75	60
5	1	FRYER, DEEP FAT, GAS	AMERICAN RANGE	AF35/50		36													0.75	120
6	1	REFRIGERATED WORK TOP	TURBO AIR	TWR-28SD-D2-N	SEE NOTE 4	163	2.2		0.2	115	1		X	5-15P						
6A	1	WARMER, FOOD, ELECTRIC	HATCO	GRFHS-21	ON #6	180	10.0	1.2		120	1		X	5-15P						
7	1	REFRIGERATOR, CHEF BASE	TRUE FOOD SERVICE	TRCB-72	SEE NOTE 4	*485	9.9	1.1	0.33	115	1		X	5-15P						
8	1	REFRIGERATOR, SANDWICH/SALAD PREP	TRUE FOOD SERVICE	TSSU-60-24M-B-ST-ADA		370	7.8		0.33	115	1		X	5-15P						
8.1	1	REFRIGERATOR, SANDWICH/SALAD PREP	TRUE FOOD SERVICE	TSSU-36-12M-B-ADA		350	4.5		0.25	115	1		X	5-15P						
9	1	WARMING DRAWER	VULCAN	VW2S	ON UNDERSHELF	255														
10	1	DISPLAY CASE, REFRIGERATED	TURBO AIR	TOM-W-40SB	ON 6" HIGH LEGS	135	11.0		0.5	115	1		X	5-15P						
11	1	DISPENSER, ICE/BEVERAGE	MANITOWOC ICE	M-150 W/6 VALVES		335	2.5/2.4			(2)120	1	X	X	5-15P				(2).75		
11.1	1	ICE MAKER FOR BEVERAGE DISPENSER	MANITOWOC ICE	IB-0696YC		130	1.1/11		1.0	115/208	1	X	X	5-15P	0.375			0.5		
12	1	BUBBLER MINI TWIN	CRATHCO	CS-2E											0.5	0.5				
13	1	SINK, HAND, WALL MOUNT	KROWNE	HS-22	SEE NOTE 6	14														
14	1	SINK, PREP	TURBO AIR	TSB-1-L2	SEE NOTE 6	70									0.5	0.5		1.5		
15	1	SINK, 3 COMPARTMENT	TURBO AIR	TSA-3-D1	SEE NOTE 6	84											1.5			
15.1	1	PRE-RINSE FAUCET	FISHER	13390	SEE NOTE 6	12									0.5	0.5				
16	1	SINK, MOP	SELECT STAINLESS OR EQUAL	MS-2020-12	SEE NOTE 6	57														
17	1	WATER HEATER, TANKLESS	A.O. SMITH	ACT-1991-N		71														
18	1	SHELF, WALL MOUNT	EAGLE GROUP or EQUAL	SNSW1272C	WALL MOUNT ABOVE SINK W/ PERMANENT BRACKETS	14														
19	3	TABLE, WORK	GSW	WT-PB****		88/141														
20	lot	SHELVING, WIRE*	EAGLE GROUP or EQUAL	5 TIER S/S	SEE NOTE 5	12														
21	2	LOCKERS, EMPLOYEE	KELMAX.	EL5 (5 TIER)		78														
22	1	SOFT SERVE MACHINE	STOELTING	E111-37I-B		224	14	1.6	0.5	115	1	X		5-20P			3.0			
23.1	1	REFRIGERATOR, WALK-IN UNIT	MASTER-BILT OR EQUAL	READY-BLT	SEE NOTES 8,10,12,17															
23.2	1	FREEZER, DOUBLE DOOR	TURBO AIR	TSF-49SD-N	SEE NOTES 10,12															
24	1	TYPE 1 HOOD	CAPTIVE AIRE	15'L x 4.5' W TYPE 1	SEE MECH PLANS	967														
		HOOD EXHAUST FAN	CAPTIVE AIRE	USBI18DD-RM		404														
		HOOD MAKE-UP AIR FAN	CAPTIVE AIRE	A2-20D		708														

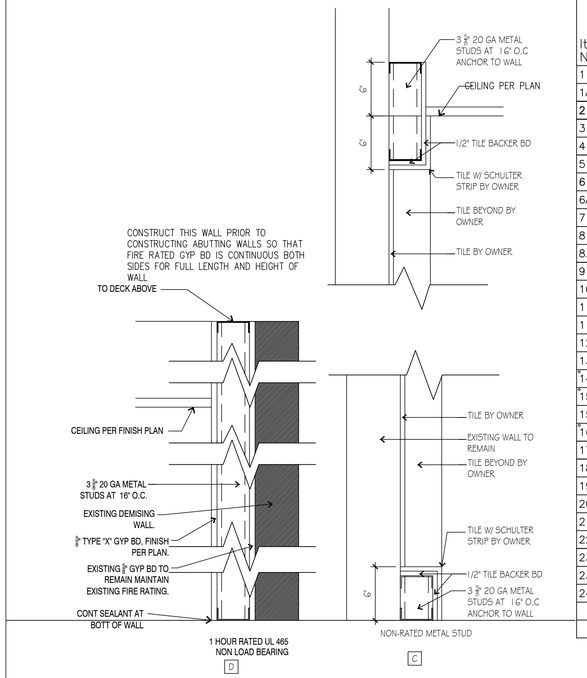
EXHAUST AND MAKE-UP AIR WILL BE ELECTRICALLY INTERLOCKED.

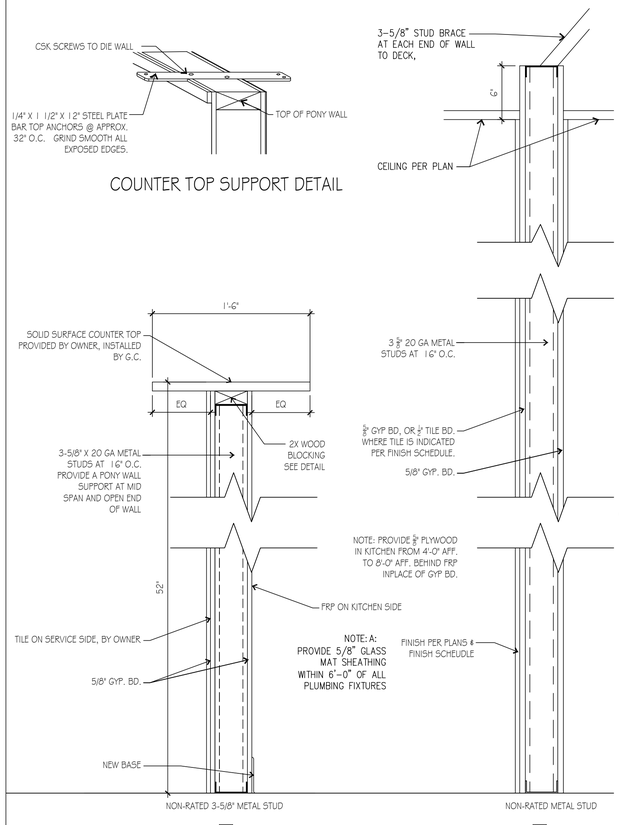
EQUIPMENT NOTES:

1. ALL NEW EQUIPMENT TO BE NSF OR EQUAL & PROPERLY LABELED.
2. SERVICE COUNTERS TO BE MAX. 34" TALL FOR HANDICAP ACCESSIBILITY.
3. ALL EXISTING EQUIPMENT TO BE NSF APPROVED OR EQUIVALENT AND REFURBISHED TO ITS ORIGINAL CONDITION.
4. EQUIP WITH LOCKABLE HEAVY DUTY CASTERS TO FACILITATE CLEANING OF FLOORS.
5. ALL STORAGE SHELVING TO HAVE MIN. 6" LEGS TO FACILITATE CLEANING OF FLOOR; NO STORAGE SHELVING TO BE IN EXCESS OF 5'-9" HIGH OR GREATER THAN 400LB. TOTAL LINEAR FEET OF DRY STORAGE ON WIRE SHELING IS GRATER THAT 98 FT. (OR 20+ LINEAR FEET OF 5 TIER SHELVING).
6. THE CONTORLS OF ALL SINKS SHALL: (1) BE OPENABLE WITH ONE HAND AND SHALL NOT REQUIRE GRASPING, PINCHING, OR TWISTING OF WRIST; (2) REQUIRE NO MORE THAN 5 LBS. FORCE TO ACTIVATE; & (3) BE LEVER-OPERATED, PUSH-TYPE, ELECTRONICALLY-CONTROLLED, OR SIMILAR.

6.1 ALL HAND SINKS TO HAVE WING TYPE WRITE LEVERS OR EQUAL, HEAVY DUTY LIQUID SOAP AND PAPER TOWEL DISPENSERS, AND TWO SPLASH GUARDS (EQUAL TO KROWNE HS-26L OR HS30L)

7. EXHAUST AND MAKE-UP AIR WILL BE ELECTRICALLY INTERLOCKED.
8. WALK-IN REFRIGERATOR OR FREEZER MUST BE COMPLETELY FLASHED TO THE BUILDING'S WALLS AND CEILING. THE AREAS ABOVE WALK-IN UNIT MAY NOT BE USED FOR STORAGE. ANY OPENINGS FOR VENTILATION IN THE FLASHING ABOVE THE WALK-IN UNIT MUST BE SCREENED WITH AT LEAST 16 MESH SCREEN. PROVIDE 2" AIR GAP BETWEEN PANELS AND WALLS.
9. PROVIDE EXTRA LONG FLEXIBLE GAS LINES TO ALL EQUIPMENT
10. ALL ENCLOSED EQUIPMENT (E.G. REFRIGERATORS, FREEZERS, HOT FOOD HOLDING UNITS, OVENS, & SIMILAR EQUIPMENT) MUST HAVE ADEQUATE (20+ FOOT CANDLES) INTERIOR LIGHTING.
12. COLD OR HOT HOLDING EQUIPMENT USED FOR POTENTIALLY HAZARDOUS FOOD SHALL BE DESIGNED TO INCLUDE & SHALL BE EQUIPPED WITH AT LEAST ONE INTEGRAL OR PERMANENTLY AFFIXED TEMP. MEASURING DEVICE LOCATED TO ALLOW EASY VIEWING OF TEMP. DISPLAY. THIS DISPLAY MUST HAVE A SCALE, PRINTED RECORD, OR READOUT IN INCREMENTS NO GREATER THAN 2°F OVER INTENDED RANGE OF USE.
13. METAL SPLASHGUARD WITH HEIGHT OF AT LEAST 6" THAT EXTENDS FROM THE BACK OF THE DRAINBOARD TO THE FRONT EDGE OF THE DRAINBOARD OR FULL DEPTH OF SINK FOR HAND SINKS; CORNERS OF BARRIER ARE TO BE ROUNDED.
14. 8" MIN. HIGH STAINLESS STEEL SPLASH GUARD BETWEEN FRYER AND OTHER EQUIPMENT. THE 8" HEIGHT MUST BE MEASURED FROM THE HIGHER OF THE TWO PIECES OF EQUIPMENT.
15. PREP SINK TO HAVE MIN. BOWL SIZE OF 18" X 18" X 12"
16. ALL EQUIPMENT STANDING ON FLOOR IS ON LEGS AT LEAST 6" HIGH OR IS EQUIPPED WITH CASTORS
17. WALK IN COOLER/FREEZER SHALL COMPLY W/ IBC 2603.2. FLAME SPREAD INDEX OF NOT MORE THAN 75 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 450 WHERE TESTED IN THE MAXIMUM THICKNESS INTENDED FOR USE IN ACCORDANCE W/ ASTM E 84 OR UL 723

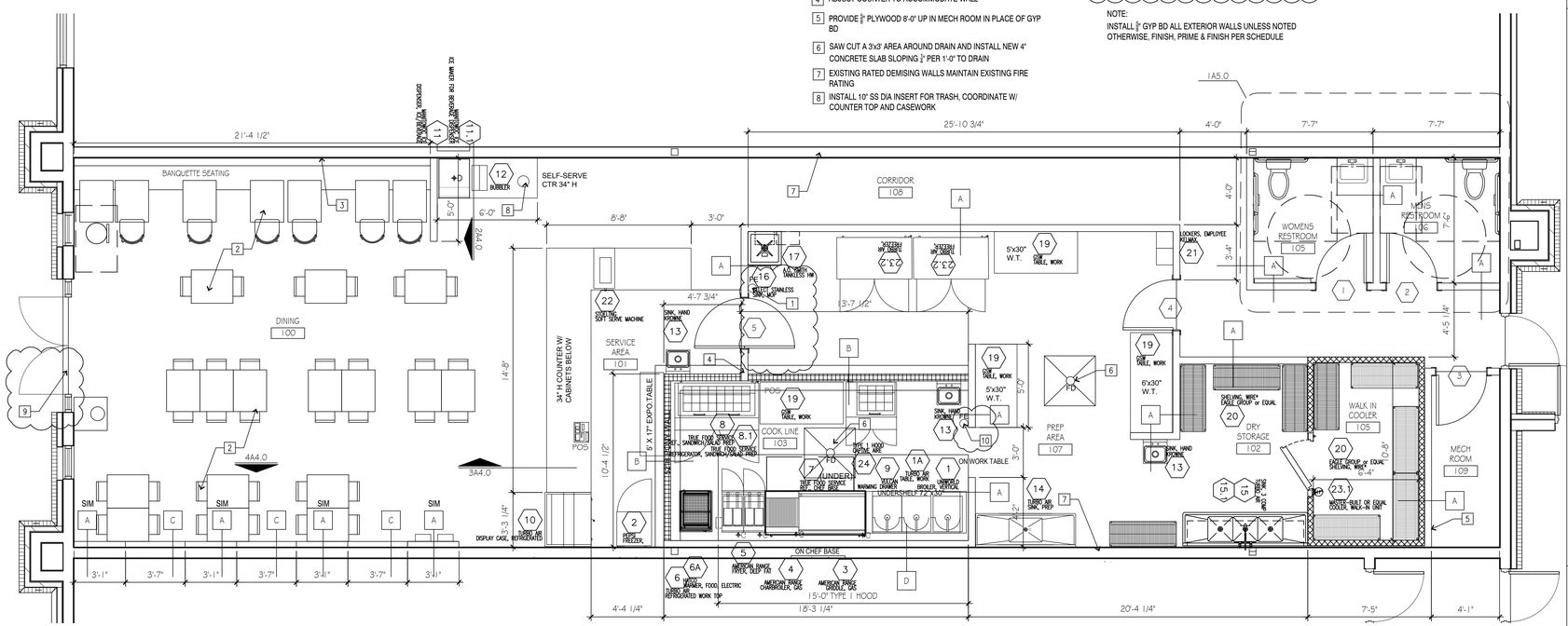




FLOOR PLAN KEYNOTES

1. FIRE EXTINGUISHER, VERIFY TYPE AND LOCATIONS WITH FIRE MARSHAL
2. ALL TABLES, CHAIRS, BANQUET ARE PROVIDED AND INSTALLED BY OWNER
3. GRAPHIC ON WALL BY OWNER. G.C. TO PREP.
4. ADJUST COUNTER TO ACCOMMODATE WALL
5. PROVIDE 3/4" PLYWOOD 8'-0" UP IN MECH ROOM IN PLACE OF GYP BD
6. SAW CUT A 3'x3' AREA AROUND DRAIN AND INSTALL NEW 4" CONCRETE SLAB SLOPING 1/4" PER 1'-0" TO DRAIN
7. EXISTING RATED DEMISING WALLS MAINTAIN EXISTING FIRE RATING
8. INSTALL 10" SS DIA INSERT FOR TRASH, COORDINATE W/ COUNTER TOP AND CASEWORK
9. PROVIDE MIN 4" HIGH & STROKE WIDTH OF 0.5" ADDRESS NUMBERS, VERIFY STYLE AND LOCATION W/ FIRE MARSHAL
10. TYPE "K" FIRE EXTINGUISHER MOUNTED UNDER THE MANUAL PULL STATION FOR HOOD SUPPRESSION, VERIFY TYPE AND LOCATIONS WITH FIRE MARSHAL

NOTE:
INSTALL 5/8" GYP BD ALL EXTERIOR WALLS UNLESS NOTED OTHERWISE, FINISH, PRIME & FINISH PER SCHEDULE



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

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ARCHITECT
DATE SIGNED 6/13/24

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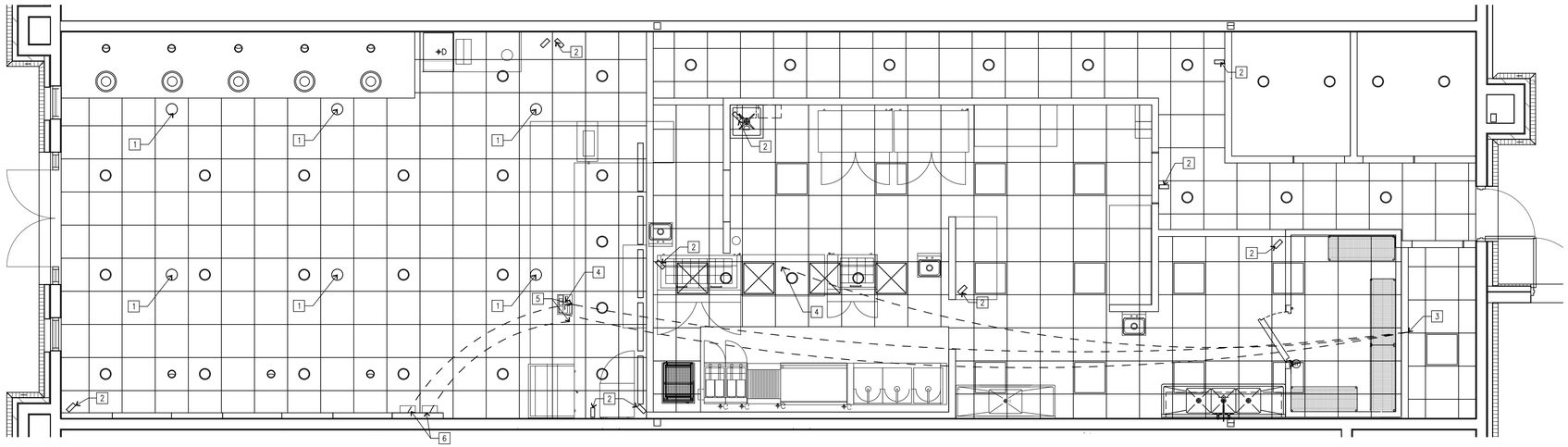
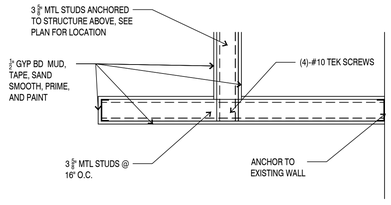


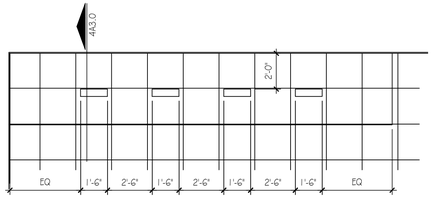
LOW VOLTAGE KEYNOTES

1. SPEAKERS PROVIDED BY OWNER, G.C. PROVIDE & TO COORDINATE RUNNING WIRE TO DRY STORAGE W/ OWNER
2. SECURITY CAMERA PROVIDED BY OWNER, G.C. PROVIDE & TO COORDINATE RUNNING WIRE TO DRY STORAGE W/ OWNER
3. DATA TERMINAL FOR LOW VOLTAGE WIRE PORTS @ 7'-0" A.F.F.
4. CAT 6 DATA TO POS, IN CASEWORK OR LOW WALL, VERIFY LOCATIONS W/ OWNER
5. DATA BOOSTER BY OWNER, RUN ADDITIONAL DATA LINE FROM BOOSTER TO ORDER KIOSK
6. ORDER KIOSK, PROVIDE (2) SINGLE CAT 6 DATA CONNECTIONS @ 48" A.F.F., COORDINATE WITH OWNER.

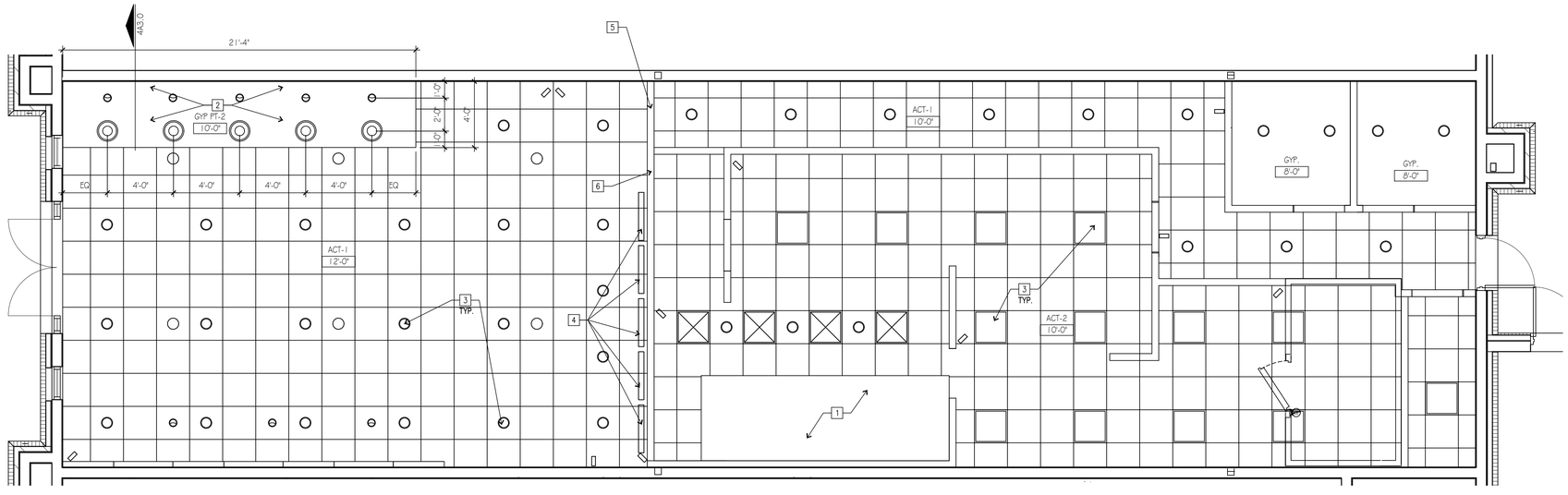
LOW VOLTAGE PLAN 2
SCALE: 1/4" = 1'-0"



SOFFIT SECTION 4
SCALE: 1" = 1'-0"



RCP ABOVE SOFFIT 3
SCALE: 1/4" = 1'-0"



RCP KEYNOTES

1. EXHAUST HOOD
2. NEW 5/8" GYP BD SOFFIT ON 3 5/8" MTL STUDS AT 16" O.C. , PAINT SOFFIT AND ABOVE PT-2 TO CEILING. SEE SECTION
3. NEW LED LIGHT FIXTURE, RE: MEP, TYP
4. ELECTRONIC MENU BOARD MOUNTED TO SOFFIT
5. 3 5/8" MTL STUD SOFFIT W/ 5/8" FINISHED GYP BD. BOTTOM @ 9'-10"
6. 3 5/8" MTL STUD SOFFIT W/ 5/8" FINISHED GYP BD. VERIFY 8'-6" BOTTOM OF SOFFIT W/ OWNER, PROVIDE TILE FINISH PER FINISH SCHEDULE

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

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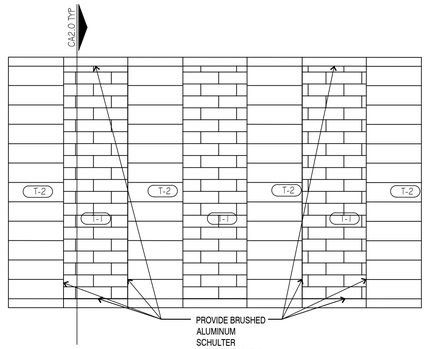
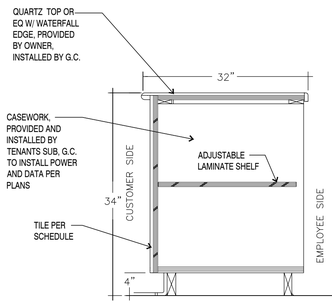
REFLECTED CEILING PLAN

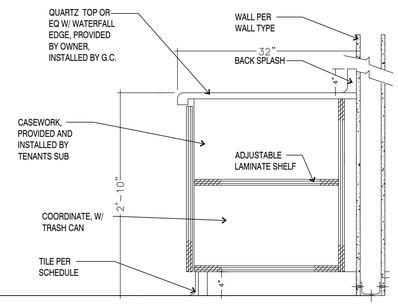


INTERIOR ELEVATION 4
SCALE: 1/4"= 1'-0"

NOTE: NON NSF COUNTERS AND CABINETS WILL HAVE PLASTIC LAMINATION INSIDE AND OUT (OR SS COUNTER TOP , AND THE FLOOR MATERIAL WILL HAVE A CONTINUOUS COVED BASE ON THE EMPLOYEE SIDE.
CONSTRUCTION MUST BE OF CABINET QUALITY WITH ALL SURFACES SMOOTH AND ALL CRACKS AND CREVICES SEALED WITH A CAULKING - TYPE SEALANT



CASEWORK SECTION 3
SCALE: 1"= 1'-0"



CASEWORK SECTION 2
SCALE: 1"= 1'-0"

FINISH LEGEND

T-1	PORCELAIN TILE, - 8"x48" PORCELANO, DELAWARE NOGAL 19 (APPROVED BY OWNER)
T-2	PORCELAIN TILE, - PORCELAN OSA, SHINE ALUMINO NP 33, BRUNEI BLANCO PV (APPROVED BY OWNER)
T-3	PORCELAIN TILE, - 12x24 (TO BE SELECTED BY OWNER)
T-4	QUARRY TILE, - 6x6 W/ GREASE RESISTANT EPOXY GROUT
PT-1	FIELD PAINT,SHERWIN WILLIAM SW7551 GREEK VILLA
PT-2	ACCENT PAINT, SHERWIN WILLIAMS, CUSTOM BLUE PER PAINT CODE
B-1	4" COVED QUARRY TILE CONTINUOUS W/ 3/4" RAD
B-2	4" COVED PORCELAIN TILE CONTINUOUS W/ 3/4" RAD
B-3	4" BLACK RUBBER BASE
FRP-1	WHITE FRP W/ REQUIRED TRANSITIONS
FRP-2	CRANE COMPOSITES DESIGN COLLECTION COORDINATE SELECTION W/ OWNER PROVIDE REQUIRED TRANSITIONS
SS-1	STAINLESS STEEL
ACT-1	ACOUSTICAL CEILING TILE, MANUFACTURER: ARMSTRONG, NAME: DUNE #1774, STYLE: TEGULAR EDGE, SIZE: 2'-0" X 2'-0", WHITE PRELUDE ML 15/16" EXPOSED TEE GRID SYSTEM
ACT-2	WASHABLE CEILING TILE, SIZE: 2'-0" X 2'-0", WHITE PRELUDE ML 15/16" EXPOSED TEE GRID SYSTEM
SC-1	SEALED CONCRETE

ROOM FINISH SCHEDULE

room number	room name	floor	base	wall				Ceiling Type	remarks
				north	east	south	west		
100	DINING	T-3	B-2	T-2 & PT-1	T-2	T-1 & T-2	T-2	ACT-1	provide shulter strip at outside tile corners
101	SERVICE AREA	T-4	B-1	-	T-2	T-2	-	ACT-1	
102	DRY STORAGE	T-4	B-1	FRP-1	-	FRP-1	FRP-1	ACT-2	
103	COOK LINE	T-4	B-1	FRP-1	T-2	SS-1	FRP-1	ACT-2	
104	WALK IN COOLER	T-4	-	-	-	-	-	-	insulated walls, ceiling, and floor by vendor
105	WOMENS RESTROOM	T-3	-	T-3	T-3	T-3	T-3	PT-1	
106	MENS RESTROOM	T-3	-	T-3	T-3	T-3	T-3	PT-1	
107	PREP AREA	T-4	B-1	FRP-1	FRP-1	FRP-1	FRP-1	ACT-2	
108	CORRIDOR	T-3	B-2	T-2 & PT-1	T-2 & PT-1	T-2 & PT-1 FRP-2	T-2 & PT-1	ACT-1	tile up wall to 48" a.f.f. paint above to ceiling
109	MECH	SC-1	B-3	PT-1	PT-1	PT-1	PT-1	ACT-1	

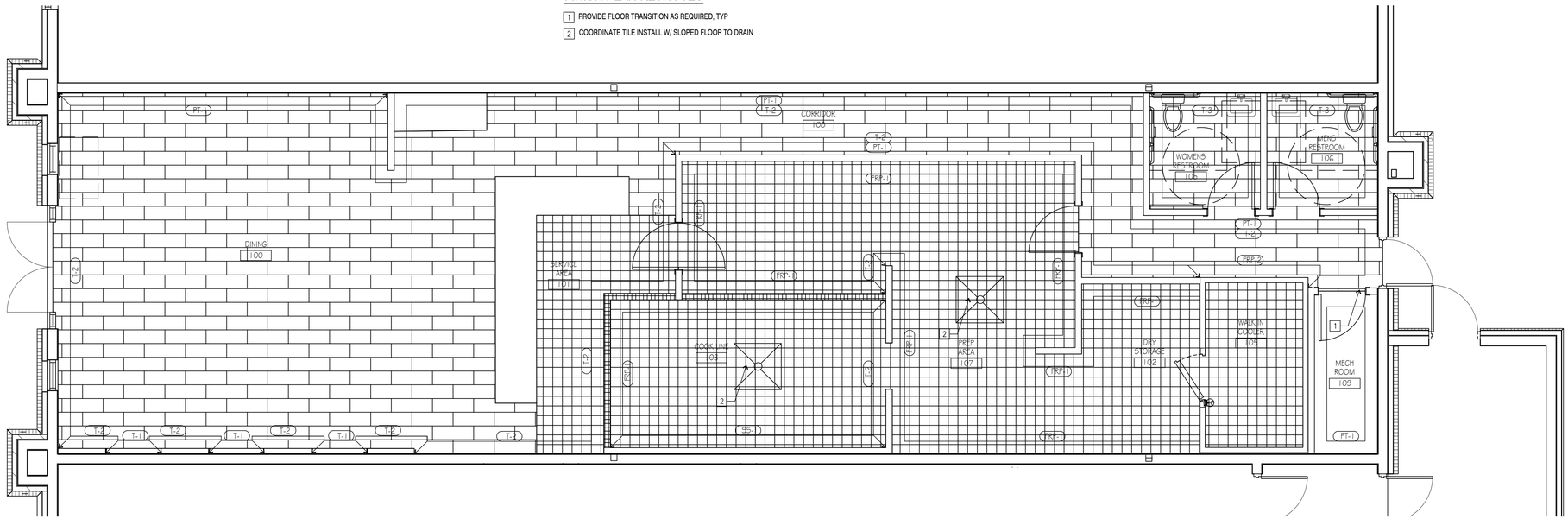
finish notes:

- All surfaces shall be cleaned and conditioned to receive new finish as required by finish product manufacturer. Surfaces shall be smooth, free from depressions, protrusions, pits, slumps, streaks, flashing, and variation of texture. Installer/subcontractor shall notify general contractor prior to installation if conditions are not satisfactory.
- All wall mounted mechanical slots or grilles to be painted to match the wall on which they occur. Do not paint prefinished wall mullion end caps.
- All patterned flooring shall be centered in both directions and generated from center of room outward toward partitions, unless otherwise noted.
- Finishes shall be bid as specified or as approved equal only.
- All walls shall receive a level 4 finish.
- Install base at all casework where exposed unless noted otherwise.
- Match existing finishes where required to accommodate new work.

SALES NUMBER	SIZE	PRODUCT	DESCRIPTION
6509-05027	GALLON	A87T1154	SPR INT SA ULTRA
Custom: SC18-596 DEA135 OLD MILL			
CCE*Color Cast	OZ	32	64 128
B1 Black	-	31	- -
L1 Blue	8	27	1 1
R3 Magenta	-	63	- -
Y3 Deep Gold	-	6	1 -
Custom Manual Match			

FINISH PLAN KEYNOTES

1 PROVIDE FLOOR TRANSITION AS REQUIRED, TYP
2 COORDINATE TILE INSTALL W/ SLOPED FLOOR TO DRAIN



FINISH FLOOR PLAN 1
SCALE: 1/4" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
08/27/2024

David Eskov
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913-284-3660

STATE OF MISSOURI
DAVID L ESKOV
NUMBER A-2021003214
ARCHITECT
DATE SIGNED 6/13/24

ADA Compliance Certification

To best of my professional knowledge, the facility as indicated is in compliance with the Americans with Disabilities Act, including the current ADA Title III Design Guidelines.

David Eskov

PERMIT
JUNE 13, 2024

Revisions

RESTAURANT TENANT INFILL
NICK THE GREEK
STREETS OF WEST PRYOR
TENANT SPACE "C" 1020 NW PRYOR RD
LEE'S SUMMIT, MO

sheet
A4.0
FINISH PLAN & DETAILS

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PERMIT
JUNE 13, 2024

Revisions

DOOR NOTES

1. ALL DOORS 1 3/8" THICK UNLESS OTHERWISE NOTED. (DOORS WITH GLASS LITE SHALL BE 1 ¾" THICK)

2. PROVIDE STOPS AT ALL DOORS AS APPLICABLE TO ADJACENT WALL AND DOOR SWING; ALL WITH SELF CLOSING MECHANISM.

3. HARDWARE ON ALL DOORS SHALL MEET HANDICAP HEIGHTS, CLOSURE PRESSURE. THRESHOLD SHALL NOT BE MORE THAN ½" HIGH. PRESSURE SHALL NOT EXCEED 5 LBS. ON EXTERIOR AND INTERIOR DOORS, 15 LBS. FOR FIRE DOORS. HARDWARE HEIGHT TO MEET REQUIREMENT OF 34" TO 44" CENTERLINE OFF MOUNTING.

4. NO FLOOR TRANSITION OR THRESHOLD SHALL BE HIGHER THAN 1/2" (HANDICAP REQUIREMENT).

5. WHERE NECESSARY, UNDERCUT DOORS 1" TO ALLOW VENTILATION. SEE MECHANICAL DRAWINGS.

6. DOORS AND FRAMES TO BE PREPARED FOR RELATED HARDWARE. IF NECESSARY, REINFORCE DOORS AND FRAMES AS REQUIRED BY HARDWARE.

7. FIRE DOORS, FRAMES, HARDWARE AND ALL OTHER DOORS OPERATION SHALL BE IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES.

8. PROVIDE ALL ACCESSORIES, COMPONENTS, ASSEMBLIES AND RELATED HARDWARE (EVEN IF NOT SPECIFIED) SO AS TO MAKE COMPLETE AND READY FOR USE..

9. GENERAL CONTRACTOR TO PROVIDE ON 12" EQUILATERAL TRIANGLE SIGN FOR MEN AND 12" DIAMETER CIRCLE FOR WOMEN ON TOILET DOORS WITH RAISED LETTER AND BRAIILE SIGNAGE AT LATCH OUTSIDE RESTROOMS ENTRANCE DOOR(S). MOUNTED 60" ABOVE TILE FLOOR AND SITUATED TO ALLOW AN INDIVIDUAL TO APPROACH WITHIN 3".

10. ALL EGRESS DOORS SHALL BE OPENABLE FROM THE EGRESS WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. KEY LOCKING HARDWARE MAY BE USED ON THE MAIN EXIT WHEN THERE IS A READILY VISIBLE, DURABLE SIGN ON OR ADJACENT TO THE DOOR STATING "THIS DOOR MUST REMAIN UNLOCKED WHILE THIS SPACE IS OCCUPIED". 2016 CBC 1010.1.9.3

11. ALL EXTERIOR & RESTROOM DOORS TO HAVE SELF-CLOSING DEVICES; GAPS UNDER EXTERIOR DOORS NOT TO EXCEED 1/4".

12. LOWER 10" OF DOOR SURFACE IS PROVIDE WITH A SMOOTH SURFACE FOR THE FULL WIDTH OF THE DOOR, AT THE PUSH SIDE OF THE DOOR PER CBC 11B-404.2.10.

DOOR SCHEDULE

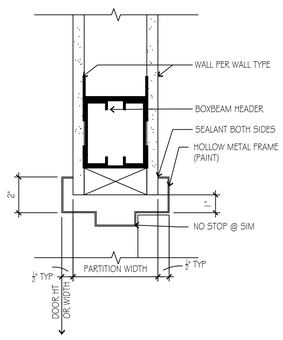
DOOR NO.	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	FRAME HEAD	HARDWARE	REMARKS
1	3'-0"	7'-0"	1 3/4"	B	WOOD	PAINT	HM	PAINT	6A5.0	1	PAINT TO MATCH ADJACENT WALL
2	3'-0"	7'-0"	1 3/4"	B	WOOD	PAINT	HM	PAINT	6A5.0	1	PAINT TO MATCH ADJACENT WALL
3	3'-0"	7'-0"	1 3/4"	B	WOOD	PAINT	HM	PAINT	6A5.0	2	PAINT TO MATCH ADJACENT WALL
4	3'-0"	7'-0"	1 3/4"	B	WOOD	PAINT	HM	PAINT	6A5.0	2	PAINT TO MATCH ADJACENT WALL
5	3'-0"	7'-0"	1 3/4"	A	-	SS	HM	PAINT	6A5.0 SIM	-	

NOTE: FIELD VERIFY ALL ROUGH OPENING DIMENSIONS PRIOR TO FINAL FABRICATION

G.C. TO SUBMIT HARDWARE SHOP DRAWINGS TO OWNER FOR REVIEW.

SET #1
TOILET RM DOOR:
3 - BUTTS, TA 2714
1- LEVER HANDLE PRIVACY FUNCTION
1- CLOSER, W/ COVER
1 - KICKPLATE, QUALITY HARDWARE, 10" x 2" x LDW-16GA
1- STOP, STANLEY HAREDWARE, 431ES
3 - SILENCER, GLYNN-JOHNSON, GJ64
ADA/ANSI COMPLIANT TOILET-ROOM DOOR SIGN
@ 60" AFF ON WALL AT STRIKE SIDE

SET #2
KITCHEN/MECH DOOR:
3 - BUTTS, TA 2714
1- LEVER HANDLE STOREROOM FUNCTION
1- STOP, STANLEY HAREDWARE, 431ES
3 - SILENCER, GLYNN-JOHNSON, GJ64

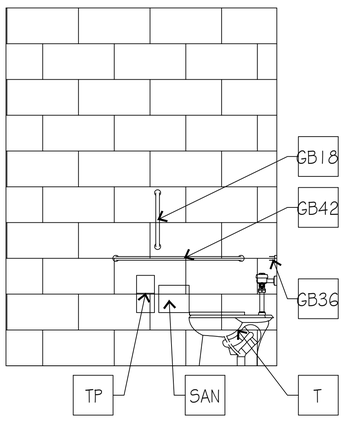


HEAD DETAIL 6
SCALE: N.T.S.

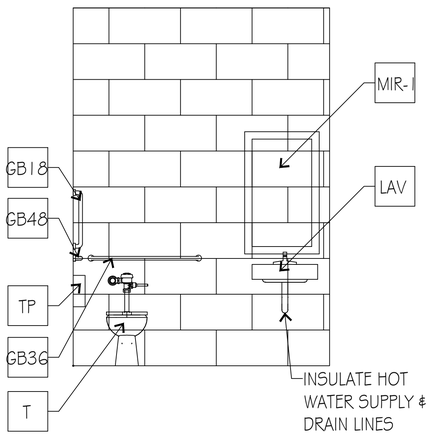
FRAME TYPES:

DOOR TYPES:

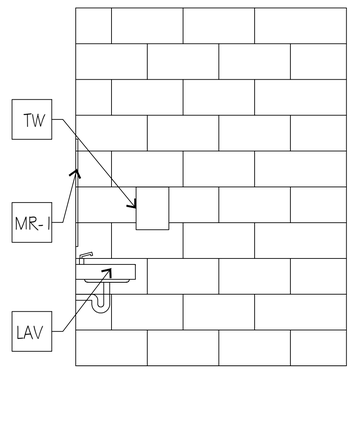
DOOR SCHEDULE 5
SCALE: N.T.S.



RR ELEVATION 4
SCALE: 1/2" = 1'-0"



RR ELEVATION 3
SCALE: 1/2" = 1'-0"

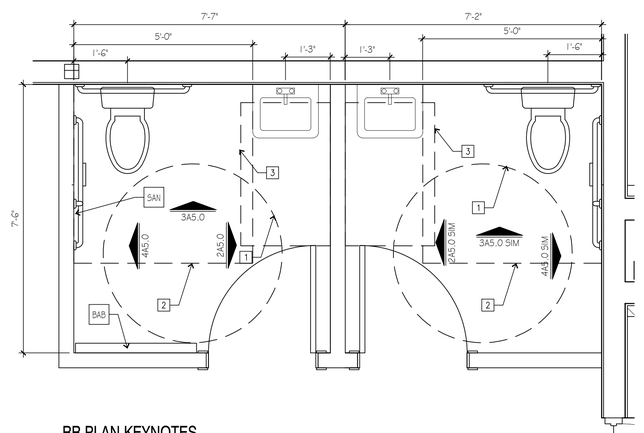


RR ELEVATION 2
SCALE: 1/2" = 1'-0"

RESTROOM ACCESSORY SCHEDULE
VERIFY W/ OWNER

NO	DESCRIPTION
GB36	GRAB BAR, 36" LONG, PROVIDE BLOCKING
GB42	GRAB BAR, 42" LONG, PROVIDE BLOCKING
GB18	VERTICAL GRAB BAR, 18" HIGH, PROVIDE BLOCKING
MIR	NEW MIRROR (20"x36") - MOUNT 38" A.F.F. ANCHOR TO WALL
LAF	LAVATORY FAUCET, RE: MEP
LAV	LAVATORY, RE: MEP COORDINATE MOUNTING SUPPORTS W/ MANUFACTURER
TP	TOILET TISSUE DISPENSER - BOBRICK B-274
SAN	SANITARY NAPKIN DISPOSAL: BOBRICK B-270 WALL MOUNTED SANITARY NAPKIN DISPOSAL
TW	TOWEL DISPENSER: BOBRICK B-262 SURFACE MOUNTED PAPER TOWEL DISPENSER
BAB	BABY CHANGING TABLE

NOTES:
1. DIMENSIONS ARE TO FACE OF FINISH
2. INSTALL BLOCKING IN WALLS FOR GRAB BARS, ACCESSORIES AS REQUIRED FOR SUPPORT.
3. REFER TO SHEET A3.0 & ANSI FOR CLEAR FLOOR SPACE INFORMATION AND FIXTURE MOUNTING HEIGHTS, E.G. GRAB BARS, TOILET FIXTURES, AND ACCESSORIES.



RR PLAN KEYNOTES
1. ADA WHEEL CHAIR TURNING SPACE
2. ADA TOILET CLEARANCE
3. ADA SINK CLEARANCE

ENLARGED RR PLAN 1
SCALE: 1/2" = 1'-0"

RESTAURANT TENANT INFILL
NICK THE GREEK
STREETS OF WEST PRYOR
TENANT SPACE "C" 1020 NW PRYOR RD
LEE'S SUMMIT, MO

sheet
A5.0
ENLARGED RR PLAN, ELEVATIONS, DOOR SCHEDULE & DETAILS

MECHANICAL AND PLUMBING SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

SHEET METAL
- HIGH EFFICIENCY ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)
- SPIN-IN ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)
- CONICAL BELLMOUTH ROUND TAKEOFF
- ROUND DUCT RUNOUT WITH FLEX DUCT
- DUCTWORK ELBOW (WITH & WITHOUT TURNING VANES)
- XD — FD:FIRE DAMPER FS:FIRE/SMOKE DAMPER SD:SMOKE DAMPER BD:BACKDRAFT DAMPER (GRAVITY)
- MD — AUTOMATIC MOTORIZED DAMPER
- 8"ø A 225 — SUPPLY DIFFUSER AND DIFFUSER CALLOUT (NECK SIZE, TYPE AND CFM)
- LINEAR/SLOT DIFFUSER
- RETURN GRILLE OR EXHAUST REGISTER
- SUPPLY AIR FLOW INDICATOR
- RETURN AND EXHAUST AIR FLOW INDICATOR
- THERMOSTAT
- TEMPERATURE SENSOR
- H — HUMIDISTAT
- CONTROL WIRING

GENERAL SYMBOLS
- INDICATES CONNECT TO EXISTING
- INDICATES ELEVATION

MECHANICAL PIPING
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- D — DRAIN (CONDENSATE)

PLUMBING PIPING
- · — DOMESTIC COLD WATER
- ·· — DOMESTIC HOT WATER
- ··· — RECIRCULATING DOMESTIC HOT WATER
- SAN — WASTE ABOVE GRADE OR FLOOR
- — SAN — — WASTE BELOW GRADE OR FLOOR
- V — PLUMBING VENT
- W — WATER SERVICE
- G — GAS (NATURAL)

PIPING SYMBOLS
- SHUTOFF VALVE
- SHUTOFF VALVE IN RISER
- BALANCING VALVE
- PLUG VALVE
- AUTO FLOW CONTROL VALVE
- PIPING ELBOW UP
- PIPING ELBOW DOWN
- PIPING TEE
- PIPING ELBOW
- PIPING TEE UP
- PIPING TEE DOWN
- INCREASER / REDUCER
- UNION
- CAP
- PIPE FLEX
- STRAINER
- CHECK VALVE
- INLINE STRAINER
- TEST PLUG
- GUIDE
- ANCHOR
- TRIPLE DUTY VALVE
- AUTOMATIC 2-WAY CONTROL VALVE
- AUTOMATIC 3-WAY CONTROL VALVE
- S — SOLENOID VALVE

PIPING SPECIALTIES
- P T — PRESS/ TEMP GAUGE WITH COCK
- THERMOMETER.
- HI LOW — PRESSURE REDUCING VALVE
- RELIEF VALVE
- WATER HAMMER ARRESTER

PLUMBING FIXTURES/EQUIPMENT
- CLEAN OUT
- RPZ — REDUCED PRESSURE BACKFLOW PREVENTER
- DCBP — DOUBLE CHECK BACKFLOW PREVENTER
- WC-1 S-1 — PLUMBING FIXTURE AND CALLOUT

ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

CIRCUITING
- HOME RUN (2#12 1#12G UNO)
- INDICATES 2 PHASE, 1 N, & 1 GRD CONDUCTOR
- HOME RUN: INDICATES SHARED CIRCUIT
- HOME RUN: INDICATES #10 CONDUCTORS ENTIRELY

UTILITIES
- UGE — UNDERGROUND ELECTRICAL
- TELE — TELECOMMUNICATIONS CONDUIT

LIGHTING
- FLUORESCENT LIGHT FIXTURE
- FLUORESCENT STRIP FIXTURE
- SURFACE/RECESSED LIGHT FIXTURE
- WALL-MOUNTED LIGHT FIXTURE
- POLE-MOUNTED LIGHT FIXTURE
- EXIT LIGHT
- BATTERY-OPERATED EMERGENCY LIGHT (WALL MTD)
- BATTERY-OPERATED EMERGENCY LIGHT (CEILING MTD)
- WALL-MOUNTED COMBINATION EXIT LIGHT/ BATTERY-OPERATED EMERGENCY LIGHT
- $ — LIGHT SWITCH – SINGLE POLE
- $3 — LIGHT SWITCH – 3-WAY
- $4 — LIGHT SWITCH – 4-WAY
- $D — LIGHT SWITCH – DIMMER
- $D3 — LIGHT SWITCH – 3-WAY DIMMER
- $M — WALL-MOUNTED MOTION SWITCH
- M — CEILING-MOUNTED MOTION SWITCH
- SB — SWITCHBANK – REFER TO DETAILS
- TC — TIMECLOCK – REFER TO PLANS / DETAILS

EQUIPMENT
- DISCONNECT SWITCH. RE: PLANS FOR INFORMATION.
- $ — TOGGLE-TYPE DISCONNECT. FURNISH WITH THERMAL MOTOR PROTECTION WHERE SERVING FANS/PUMPS.
- SURFACE PANELBOARD

GENERAL SYMBOLS
- INDICATES CONNECT TO EXISTING
- INDICATES ELEVATION

POWER DEVICES
- DUPLEX RECEPTACLE.
- LINE THRU DEVICE INDICATES ABOVE COUNTER
- GFI — SPECIAL DUPLEX RECEPTACLE (GFCI, ISOLATED GROUND, ETC.)
- QUADPLEX RECEPTACLE
- 5-50R — SIMPLEX RECEPTACLE W/NEMA CONFIG AS NOTED
- 5-50R — MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED
- CEILING MOUNTED RECEPTACLE
- 1G — SINGLE GANG FLOOR BOX (2, 3, 4 GANG SIMILAR)
- J — JUNCTION BOX
- T E — THERMOSTAT – ELECTRIC
- PUSH BUTTON
- MOTOR

TELEPHONE/DATA
- TELEPHONE OUTLET (SINGLE-GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)
- LINE THRU DEVICE INDICATES ABOVE COUNTER
- DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CEILING)
- TELEPHONE/DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CLG.)
- 1V — PHONE OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED – SEE DETAILS FOR ADD'L INFO.
- 1D — DATA OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED – SEE DETAILS FOR ADD'L INFO.
- 1D/1V — PHONE/DATA OUTLET WITH NUMBER OF PHONE/DATA JACKS AS INDICATED – SEE DETAILS FOR ADD'L INFO.
- W — WALL-MOUNTED WIRELESS INTERNET TRANSMITTER
- W — CEILING-MOUNTED WIRELESS INTERNET TRANSMITTER

AUDIO/VISUAL
- TV — TELEVISION OUTLET (SINGLE GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)

FIRE ALARM
- F — MANUAL PULL STATION
- D — CEILING SMOKE DETECTOR
- D — DUCT SMOKE DETECTOR
- H — HEAT DETECTOR
- 75 — VISIBLE NOTIFICATION DEVICE WITH CANDELA RATING. 75cd RATING UNLESS OTHERWISE NOTED ON PLANS.
- 30 — AUDIBLE/VISIBLE NOTIFICATION DEVICE WITH CANDELA RATING. 75cd UNLESS OTHERWISE NOTED ON PLANS.

15000 - MECHANICAL SPECIFICATIONS

SECTION 15000 – MECHANICAL REQUIREMENTS

1. GENERAL REQUIREMENTS

A. ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING, MECHANICAL & PLUMBING CODES, CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.

B. FURNISH & INSTALL ALL LABOR & MATERIALS REQUIRED FOR COMPLETE, FUNCTIONING, MECHANICAL & PLUMBING SYSTEMS W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS. "PROVIDE" MEANS TO FURNISH & INSTALL.

C. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO WATER, GAS & SEWER CONNECTIONS TO BUILDING AS REQUIRED.

D. VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN CONTRACT FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.

E. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.

F. WARRANT TO OWNER QUALITY OF MATERIAL, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.

G. ALL MATERIALS INSTALLED IN PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.

H. ROOF PENETRATIONS – MADE BY AUTHORIZED ROOFING CONTRACTOR WHEN REQUIRED.

SECTION 15100 – PLUMBING

1. PIPING

A. WATER PIPING – ALL WATER PIPING SHALL BE 95-5 TIN-ANTIMONY JOINED TYPE L COPPER. INSULATE W/ FIBERGLASS W/ ASJ & PVC COVERS. THINCKNESS IN ACCORDANCE W/ ASHRAE 90.1.

B. WASTE & VENT PIPING – CI BELL & SPIGOT OR HUBLESS CI W/ NEOPRENE GASKET FITTINGS W/ STAINLESS STEEL BANDS. SCHED 40 PVC W/ SOLVENT WELDS MAY BE USED WHERE ALLOWED BY LOCAL CODE. PVC NOT ALLOWED IN PLENUMS.

C. GAS PIPING – PROVIDE SCHED 40 CONT. WELD CARBON STEEL W/ CORRESPONDING FITTINGS. PROVIDE THREADED FITTINGS. PROVIDE IRON BODY-BRASS PLUG GAS STOPS. PAINT ALL EXPOSED GAS PIPING ON THE EXTERIOR OF THE BUILDING INCLUDING ON THE ROOF.

2. VALVES

A. BALL VALVES – 2" & UNDER – BRONZE FULL PORT W/ TEFLOW SEATS, BRONZE BALL & INSULATED HANDLE.

B. BALANCING VALVES – ARMSTRONG MODEL CBV I OR CBV II, 125 PSI-WP AT 250 DEGREES F., METER CONNECTIONS W/ BUILT-IN CHECK VALVES SCREWED OR FLANGED ENDS. PROVIDE POLYURETHANE INSULATION COVER.

C. CHECK VALVES – 2" 7 SMALLER SCREWED OR SOLDER BRONZE CHECK VALVE, 200 PSI-WOG/125 PSI-WSP, TEFLON OR BRONZE DISC & SEAT RING. 2-1/2" & LARGER FLANGED, ASTM 126 IRON BODY, BRONZE TRIMMED, 200 PSI-WOG/125 PSI-WSP.

D. EQUIVALENT VALVE MANUFACTURERS: MILWAUKEE, STOCKHAM, POWELL, RED-WHITE, CRANE, APPOLO, MUELLER, MUESSCO, WATTS, HAYS, ROCKWELL-NORDSTROM.

FIXTURES – SEE SCHEDULES

A. FIXTURES: AMERICAN STANDARD, KOHLER, CRANE, ZURN, TOTO
B. STAINLESS STEEL FIXTURES: ELKAY, JUST, MOEN COMMERCIAL
C. FITTINGS & SUPPORTS: JOSAM, SMITH, WADE, ZURN, OR JONESPEC.
D. SEATS: CHURCH, OLSONITE, BEMIS OR BENEKE.
E. TRIM BY DELTA, ELJER, KOHLER, AMERICAN STANDARD, CRANE, SLOAN.
F. FLUSHVALVES: SLOAN, ZURN, TOTO
G. DRAINS BY WADE, ZURN, WOODFORD, SMITH, JOSAM.

EQUIPMENT – SEE SCHEDULES

A. WATER HEATER – STATE, RHEEM, NATIONAL, A.O. SMITH. PORCELAINIZED GLASSLINED TANK. COLD WATER INLET DROP TUBE. MAGNESIUM ANODE RODS. U.L. SEAL, 160 PSI, FACTORY TEMPERATURE & PRESSURE RELIEF VALVE. N.S.F. CONSTRUCTION. 3 YR WARRANTY.

B. RECIRCULATION PUMPS – HORIZONTAL, OIL-LUBRICATED, ALL BRONZE. NON-OVERLOADING MOTOR.

EXECUTION

A. PROVIDE UNIONS OR FLANGED JOINTS IN EACH PIPE LINE PRECEDING CONNECTIONS TO EQUIPMENT TO ALLOW REMOVAL FOR REPAIR OR REPLACEMENT. PROVIDE ALL SCREWED & CONTROL VALVES W/ UNIONS ADJACENT TO EACH CONNECTION. PROVIDE SCREWED END VALVES W/ UNION ADJACENT TO VALVE UNLESS VALVE CAN BE OTHERWISE EASILY REMOVED FROM LINE.

B. AFTER PIPING IS IN PLACE TEST LINES TO ENSURE NO LEAKS.

C. ALL PIPING & EQUIPMENT SHALL BE SUPPORTED PROPERLY FROM STRUCTURE.

D. ESCUTCHEONS – PROVIDE NICKEL-BRASS OR CHROME PLATED ON ALL EXPOSED PIPES WHEN PASSING THRU WALL OR CEILING OF FINISHED ROOMS.

E. VERIFY FLOOR MATERIALS USED FROM ARCHITECTURAL PLANS & PROVIDE PROPER CLEANOUT TOPS, WHERE THEY OCCUR IN CARPET, QUARRY TILE, VINYL TILE OR CERAMIC TILE.

F. PROVIDE WATER HAMMER ARRESTORS FOR ALL PLUMBING BANKS W/ FIXTURES UTILIZING FLUSH VALVES IN ANY CAPACITY. LOCATE ARRESTER BETWEEN LAST TWO FIXTURES SERVED ON BRANCH LINE.

SECTION 15300 – HVAC

GENERAL

A. PROVIDE COMPLETE HVAC SYSTEM AS SHOWN ON DRAWINGS INCLUDING ALL NECESSARY EQUIPMENT, DUCTWORK, DIFFUSERS, GRILLES, & FILTERS. PROVIDE OPERATING & MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT.

B. ALL HVAC WORK SHALL BE DONE IN STRICT ACCORDANCE W/ ALL REQUIREMENTS OF LOCAL BUILDING CODE, ASHRAE, NEC, NFPA, & ALL OTHER APPLICABLE CODES HAVING JURISDICTION.

DUCTWORK

A. HVAC DUCTWORK SHALL BE GALV SHEET METAL OF GAUGES & JOINT TYPES SPECIFIED IN SMACNA MANUAL. PROVIDE TURNING VANES IN ELBOWS.

B. VOLUME DAMPERS SHALL BE MANUAL LOCKING BLADE TYPE.

C. GREASE DUCT SHALL BE NEW COMMERCIAL QUALITY BLACK STEEL FOR GREASE DUCTS. CONSTRUCTION SHALL BE WELDED, STEEL MINIMUM OF 16 GAUGE.

D. ALL DUCTWORK MUST BE SUPPORTED PROPERLY FROM STRUCTURE.

E. WRAP ALL SUPPLY & OUTSIDE AIR HVAC DUCTWORK W/ CERTAINTEED 1-1/2" THICK INSULATION W/ VAPOR BARRIER IN CONCEALED LOCATIONS. ALSO LINE FIRST 10' OF SUPPLY DUCTWORK FOR SOUND ATTENUATION (IN ADDITION TO WRAP) LINE ALL RETURN AIR DUCTS & TRANSFER BOOTS W/ ½" LINER. DO NO WRAP EXPOSED SPIRAL DUCTS.

F. EXTERNAL FIRE INSULATION FOR GREASE DUCTS – 2 HR. FIRE RESISTANCE RATING SHALL BE PABCO SUPER FIRETIMP-L. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. EQUIVALENT BY 3M DUCTWRAP, PROVIDE (2) 1 ½" LAYERS.

SPECIALTIES

A. FLEXIBLE DUCTS – THERMAFLEX OR EQUAL SOUND RATED TYPE G-KM INSULATED. (DUCT W/O PUBLISHED ACOUSTICAL ATTENUATION RATINGS NOT ACCEPTABLE) TAKE OFF FITTING SHALL BE HI-EFF STYLE W/ LOCKING DAMPER. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 7'-0".

B. DIFFUSERS & GRILLES – SEE SCHEDULE. EQUIVALENT BY PRICE, TUTTLE & BAILEY, TITUS, MATEL-AIRE, KREUGER, NAILOR. COORDINATE COLOR, MOUNTING W/ DUCT, CEILINGS, ARCHITECT.

EQUIPMENT

A. EXHAUST FANS – EQUIVALENT BY COOK, PENN, ACME, GREENHECK, JENNAIRE, TWIN CITY. PROVIDE W/ SPEED CONTROLS FOR ALL FANS LESS THAN 1/3HP TO BE FURNISHED TO E/C FOR MOUNTING AT FAN. PROVIDE W/ 14" MIN. CURB. PROVIDE GREASE TRIM & VENTILATED CURB EXTENSIONS FOR GREASE FANS.

B. PROVIDE PROGRAMMABLE THERMOSTATS W/ STAGES OF HEATING AND COOLING AS REQUIRED BY STAGES OF HEATING AND COOLING ON SPECIFIED EQUIPMENT. SEVEN (7) DAY PROGRAMMING CAPABILITY W/ 2 OCC/UNOCC PERIODS/DAY. AUTO HEAT/COOL CHANGE OVER. LOCKING SETPOINTS TO PREVENT TAMPERING. PROVIDE W/ ALL INTERFACES TO OTHER EQUIPMENT AS REQUIRED. THERMOSTATS BY HONEYWELL, JOHNSON CONTROLS, WHITE-ROGERS, TRANE, CARRIER, AAON, LENNOX, DAIKIN, OR APPROVED EQUAL.

C. MAKE-UP AHU – SEE SCHEDULE. HEAVY GAUGE GALV STEEL CONSTRUCTION. 1" METAL MESH FILTERS, BELT DRIVEN DWDI, FC FAN. FAN & MOTOR ASSEMBLY MTD ON VIBRATION ISOLATORS. SHAFT SHALL BE MTD IN HD, SEALED BALL BEARINGS. ADJUSTABLE SHEAVES. 150% HP DRIVES AGA DIRECT GAS FIRED & C.G.A. APPROVED. CONTROLS SHALL INCLUDE MAIN GAS PRESSURE REGULATOR, MODULATING GAS VALVE, ELECTRIC SPARK IGNITION PILOT RE-LIGHT SYSTEM, SAFETY PILOT, HIGH LIMIT & 24V CONTROL TRANS. EQUIVALENTS BY CAPTIVEAIR, GREENHECK, TRANE, ENGINEERED AIR, REZNOR, HASTINGS, STERLING, AAON, DAIKIN.

D. HOOD FIRE-EXTINGUISHING EQUIPMENT – PROVIDE STAND ALONE, AUTOMATIC EXTINGUISHING SYSTEM FOR EXHAUST HOODS & DUCT SYSTEM MEETING REQUIREMENTS OF NFPA 96 & 17. INCLUDE ALL TANKS, PIPING, HEADS, ALARMS, INDICATORS, VALVES & CHARGE TO PROPERLY PROTECT EXHAUST SYSTEM. SYSTEM SHALL COMPLETELY SHUT-DOWN POWER & GAS TO ALL APPLIANCES LOCATED BENEATH HOOD IN EVENT OF ALARM CONDITIONS. GAS SHUT DOWN SHALL BE BY MECHANICAL GAS VALVE. COORDINATE ALL WIRING W/ EQUIPMENT & REQUIREMENTS LOCAL JURISDICTION.

EXECUTION

B. COORDINATE W/ E/C TO PROVIDE ALL WIRING BETWEEN EQUIPMENT, DAMPERS, THERMOSTATS & ALL OTHER REQUIRED CONTROLS & DEVICES. PROVIDE ANY REQUIRED INTERFACES TO FIRE ALARM OR SIMILAR SYSTEMS.

C. PROVIDE GROUND-MOUNTED UNITS ON 4", REINFORCED CONCRETE BASE, 4" LARGER THAN UNIT ON EACH SIDE.

D. ROOF-MOUNTED UNITS ON EQUIPMENT SUPPORTS OR CURBS. ANCHOR UNITS TO SUPPORTS

E. PROVIDE FACTORY-AUTHORIZED SERVICE START UP ON EQUIPMENT. TRAIN OWNER'S MAINTENANCE PERSONNEL ON STARTUP, SHUTDOWN, TROUBLESHOOTING, SERVICING, PREVENTIVE MAINTENANCE.

SECTION 15900 – SYSTEM TESTING & BALANCING

A. CONTRACTOR SHALL PROCURE SERVICES OF INDEPENDENT TAB CONTRACTOR WHICH SPECIALIZES IN TAB OF HVAC SYSTEMS, TO BALANCE, ADJUST, & TEST AIR MOVING EQUIPMENT & DISTRIBUTION & EXHAUST SYSTEMS & ALL WATER FLOW CIRCUITS. WORK SHALL BE DONE UNDER ENGINEER EMPLOYED TAB. ALL INSTRUMENTS USED SHALL BE ACCURATELY CALIBRATED & MAINTAINED IN GOOD WORKING ORDER. IF REQUESTED TESTS SHALL BE CONDUCTED IN PRESENCE OF A/E RESPONSIBLE FOR PROJECT &/OR REPRESENTATIVE. TAB CONTRACTOR SHALL BE CERTIFIED BY NEBB OR AABC & ALL WORK SHALL BE PERFORMED IN ACCORDANCE W/ ORGANIZATIONS PUBLISHED PROCEDURE MANUALS.

B. TESTING & BALANCING (TAB) OF BUILDING HVAC SYSTEMS WILL BE COMPLETED NEAR END OF CONSTRUCTION. M/C HAS RESPONSIBILITY TO COOPERATE W/, MAKE ADJUSTMENTS FOR & PROVIDE EQUIPMENT NECESSARY FOR TAB CONTRACTOR TO COMPLETE JOB.

C. PRIOR TO REQUESTING TAB CONTRACTOR TO PERFORM WORK, INSTALLING CONTRACTOR SHALL MAKE ALL NECESSARY INSPECTIONS & ADJUSTMENTS TO ENSURE THAT SYSTEMS ARE COMPLETELY INSTALLED & OPERATING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS & CONTRACT DOCUMENTS.

D. CHECKS SHALL BE PERFORMED ON EACH SYSTEM INSTALLED UNDER THIS CONTRACT. REPORT SHEET SHALL BE PREPARED FOR EACH SYSTEM INDICATING CHECKS MADE, CORRECTIVE ACTION TAKEN WHERE REQUIRED, DATE & NAME OF INSPECTOR. SUBMIT (1) COPY TO TAB CONTRACTOR & (1) INDICATING CHECKS MADE, CORRECTIVE ACTION TAKEN WHERE REQUIRED, DATE & NAME OF INSPECTOR. SUBMIT (1) COPY TO TAB CONTRACTOR & (1) TO A/E. TAB CONTRACTOR WILL NOT BEGIN UNTIL CHECKLIST HAS BEEN RECEIVED & REVIEWED.

E. TAB CONTRACTOR SHALL AT MINIMUM: VERIFY & INSPECT THAT SYSTEMS ARE CLEAN, FAN ROTATION, BEARINGS, CLEARANCES, ALIGNMENT, VIBRATION ISOLATORS, FILTERS, DAMPER OPERATION & POSITION, EQUIPMENT IS INSTALLED, TRANSFER OPENINGS IN WALLS, AIR LEAKS, COIL FINS/DAMAGE.

F. BALANCING CONTRACTOR SHALL PREPARE CERTIFIED REPORT OF ALL TESTS PERFORMED. REPORT SHALL BE WRITTEN ON STANDARD FORMS PREPARED BY NEBB OR AABC OR FACSIMILES THEREOF. BALANCING CONTRACTOR SHALL SUBMIT 3 COPIES OF THIS REPORT TO M/C WHO SHALL SUBMIT THEM TO A/E FOR REVIEW & DISTRIBUTION.

G. AIR HANDLING UNIT AS INSTALLED SHOWING OUTDOOR, RETURN & SUPPLY AIR CONNECTIONS, COIL & DAMPERS ARRANGEMENTS, PSYCHOMETRIC CHART ON EACH AHU, W/ COOLING COIL, SHOWING OUTDOOR RETURN, MIXED AIR TEMPS AT MINIMUM OUTDOOR AIR CONDITION, COIL LEAVING AIR CONDITION AT FULL COOLING COIL FLOW. TAB REPORT SHALL INCLUDE ALL NEBB OR AABC FORMS COMPLETED AS REQUIRED BY CERTIFICATION.

H. TAB CONTRACTOR SHALL CYCLE EACH AHU THROUGH CONTROL SEQUENCE OF OPERATION TO VERIFY PROPER OPERATION. ANY INCONSISTENCY W/ CONTRACT DOCUMENTS SHALL BE REPORTED TO A/E & TEMP CONTROL CONTRACTOR. TEMP CONTROL CONTRACTOR SHALL TAKE ACTION TO CORRECT ANY CONTROL INCONSISTENCY AS REPORTED BY TAB CONTRACTOR.

I. DURING INSTALLATION OF HVAC SYSTEMS TAB CONTRACTOR SHALL PERIODIC INSPECTION VISITS TO PROJECT SITE. PROPER PLACEMENT & INSTALLATION OF CONTROL & BALANCING DEVICES SHALL BE VERIFIED BY THESE INSPECTIONS. M/C SHALL MAKE ALL CORRECTIONS IN CONTROL & BALANCING DEVICE LOCATIONS AS REQUESTED BY TAB CONTRACTOR. FOLLOWING EACH VISIT TAB CONTRACTOR SHALL REPORT TO A/E ALL ITEMS NOTED, ACTION TAKEN & PROGRESS OF INSTALLATION.

16000 - ELECTRICAL SPECIFICATIONS

SECTION 16000 – ELECTRICAL REQUIREMENTS

GENERAL REQUIREMENTS

A. ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING CODE, NATIONAL ELECTRICAL CODE, NFPA, CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.

B. ALL MATERIALS & EQUIPMENT SHALL BE NEW & SHALL BEAR U.L. LABEL WHERE APPLICABLE. PROVIDE WATERPROOF EQUIPMENT ENCLOSURES WHERE REQUIRED.

C. OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO ELECTRICAL CONNECTIONS TO BUILDING AS REQUIRED.

D. CONTRACTOR SHALL PROVIDE ALL LABOR & MATERIALS REQUIRED TO HAVE COMPLETE FUNCTIONING ELECTRICAL LIGHTING & POWER SYSTEMS TOGETHER W/ ALL ASSOCIATED EQUIPMENT & APPARATUS AS SHOWN ON PLANS.

E. WHERE AN ELECTRICAL DEVICE IS REQUIRED BY CODE BUT NOT SHOWN, IT SHALL BE PROVIDED AS THOUGH FULLY SHOWN & SPECIFIED.

F. CONTRACTOR SHALL VISIT SITE & OBSERVE CONDITIONS UNDER WHICH WORK WILL BE DONE. ANY DISCREPANCIES SHALL BE CALLED TO ARCHITECT'S ATTENTION. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION FOR ANY ERROR OR NEGLIGENCE ON CONTRACTOR'S PART.

G. FINAL ACCEPTANCE OF WORK SHALL BE SUBJECT TO CONDITION THAT ALL SYSTEMS, EQUIPMENT, APPARATUS & APPLIANCES OPERATE SATISFACTORILY AS DESIGNED & INTENDED. WORK SHALL INCLUDE REQUIRED ADJUSTMENT OF SYSTEMS & CONTROL EQUIPMENT INSTALLED UNDER THESE SPECIFICATIONS.

H. WARRANT TO OWNER QUALITY OF MATERIALS, EQUIPMENT, WORKMANSHIP & OPERATION OF EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS FOR ONE YEAR FROM & AFTER COMPLETION OF BUILDING & ACCEPTANCE OF MECHANICAL SYSTEMS BY OWNER.

I. ALL MATERIALS INSTALLED IN PLENUMS SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.

SECTION 16100 – CONDUIT & CONDUCTORS

A. FOLLOW CIRCUITING SHOWN ON PLANS. USE NO CONDUIT SMALLER THAN 1/2" & NO CONDUCTORS SMALLER THAN #12 GA. UNLESS NOTED OTHERWISE.

B. WIRE SHALL BE IN NON-FLEXIBLE METALLIC CONDUIT (EMT, IMC OR RMC) FOR ALL CIRCUITS AND FEEDERS GREATER THAN 30A, LIGHT SWITCH RISERS, KITCHEN CIRCUITS & HOME RUNS.

C. MC CABLE ACCEPTABLE FOR BRANCH CONVENIENCE CIRCUITS AND LIGHTING CIRCUITS. DO NOT DAISY CHAIN LIGHT FIXTURES. PROVIDE MC LUMINARY CABLE WITH BUILT-IN TWISTED JACKETED PAIR FOR LIGHTING CIRCUITS FOR LIGHTING CONTROLS. PROVIDE HEALTH CARE RATED MC FOR MEDICAL TREATMENT AREAS WHEN NOT IN CONDUIT.

D. CONDUIT INSTALLED BELOW GRADE SHALL BE SCHEDULE 80 PVC HEAVY WALL PLASTIC CONDUIT MEETING NEMA STANDARDS & UL LISTED FOR UNDERGROUND & EXPOSED USE. PROVIDE GRS RADIUS BENDS & RISERS AS CONDUITS RISE ABOVE GRADE OR ABOVE FLOOR SLAB.

E. PROVIDE INTERLOCKING SPACERS FOR MULT RUNS OF UG CONDUITS IN SAME TRENCH.

F. LIGHTING & RECEPTACLE CIRCUIT CONDUCTORS SHALL BE COPPER THWN/THHN 600 VOLT, 75 DEG C, COLOR CODED AS DESCRIBED UNDER APPLICABLE CODES. NO ROMEX, PLASTIC FLEX TUBING ETC PERMITTED. LIGHT FIXTURE WIRE INSULATION SHALL HAVE TEMP RATING NOT LESS THAN THE MANUFACTURER'S RECOMMENDED INDIVIDUAL FIXTURE RATING.

G. CIRCUITS W/ NO. 8 OR LARGER CONDUCTORS, MOTOR CIRCUITS, POWER & FEEDER CIRCUITS & BUILDING SERVICE FEEDERS SHALL BE COPPER THWN/THHN 600 VOLT, 75 DEG C.

H. ALL CONDUIT, JUNCTION BOXES, ETC. ABOVE CEILINGS SHALL BE SUPPORTED FROM STRUCTURE. PIPE SLEEVES, HANGERS & SUPPORTS SHALL BE FURNISHED & SET & CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER & PERMANENT LOCATIONS.

SECTION 16200 – GROUNDING

A. SUPPLEMENT GROUNDED NEUTRAL OF SECONDARY DISTRIBUTION SYSTEM W/ EQUIPMENT GROUNDING SYSTEM, INSTALLED SO THAT METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT & OTHER CONDUCTIVE ITEMS OPERATE CONTINUOUSLY AT GROUND POTENTIAL & PROVIDE LOW IMPEDANCE PATH FOR GROUND FAULT CURRENTS.

B. SYSTEM SHALL COMPLY W/ NATIONAL ELECTRICAL CODE, DRAWINGS & AS SPECIFIED.

C. PROVIDE EQUIPMENT GROUND BUS IN BASE OF LOW VOLTAGE, SWITCHGEAR BRAZED OR OTHERWISE ADEQUATELY CONNECTED BY AN APPROVED METHOD TO GROUND RODS.

D. PROVIDE IN CONDUIT GREEN INSULATED COPPER GROUND CONDUCTOR TO MAIN METALLIC WATER SERVICE ENTRANCE & CONNECT BY MEANS OF ADEQUATE GROUND CLAMPS.

E. EQUIPMENT GROUNDING CONDUCTORS FOR BRANCH CIRCUIT HOME RUNS SHOWN ON DRAWINGS SHALL INDICATE AN INDIVIDUAL & SEPARATE GROUND CONDUCTOR FOR THAT BRANCH CIRCUIT WHICH SHALL BE TERMINATED AT BRANCH CIRCUIT PANELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION EQUIPMENT.

F. PROVIDE LOW VOLTAGE DISTRIBUTION SYSTEM W/ SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR EACH SINGLE OR THREE-PHASE FEEDER. SINGLE PHASE 120 VOLT BRANCH CIRCUITS FOR LIGHTING & POWER SHALL CONSIST OF PHASE & NEUTRAL CONDUCTORS & GREEN GROUND CONDUCTOR INSTALLED IN COMMON CONDUIT WHICH SHALL SERVE AS GROUNDING CONDUCTOR.

G. GROUNDING CONDUCTORS SHALL BE AS SHOWN ON PLANS OR IF NOT SPECIFICALLY SHOWN SHALL BE NO SMALLER THAN THAT REQUIRED BY NEC.

SECTION 16300 – ELECTRICAL EQUIPMENT

A. JUNCTION BOXES & OUTLET BOXES SHALL BE GALVANIZED KNOCKOUT TYPE. LIGHTING FIXTURE BOXES IN CEILINGS SHALL NOT BE LESS THAN 4" OCTAGONAL KNOCKOUT TYPE. OUTLETS SHALL BE INSTALLED IN LOCATIONS SHOWN ON DRAWINGS EXCEPT OUTLETS MAY BE MOVED 4 FEET IN EITHER DIRECTION IF SO DIRECTED, WITHOUT ADDITIONAL COST. BOXES SHALL BE FLUSH MOUNTED ON WALLS FOR CONCEALED WORK. GANGABLE BOXES SHALL BE USED IN ALL GYPBOARD SURFACES.

PANELBOARDS

A. BRANCH CIRCUIT 208/240V PANELS SHALL BE CAPACITY SHOWN W/ TIN PLATED COPPER BUSSING & BRACED FOR MINIMUM OF 22,000A AIC OR AS OTHERWISE NOTED OR REQUIRED (SERIES RATED ACCEPTABLE). BOLT ON CIRCUIT BREAKERS. 480V PANELS SAME EXCEPT 25,000A AIC MIN. MINIMUM 20" WIDE W/ GALV STEEL ENCLOSURE W/ HINGED DOOR & KEYED LOCK. COORD TRIM WITH MOUNTING LOCATION. PANELS TO BE RECESSED WHENEVER POSSIBLE.

B. EQUIVALENT BY SQUARE D, SIEMENS, CUTLER HAMMER, OR GE.

SECTION 16350 – ELECTRICAL IDENTIFICATION

A. MANUFACTURED LABELS FOR EACH PANELBOARD. TYPEWRITTEN PANEL SCHEDULES MOUNTED IN PANELS

B. PRINTED TAPE STYLE LABEL FOR EACH RECEPTACLE INDICATING PANEL & CIRCUIT #.

C. MANUFACTURED LABELS FOR ALL DISCONNECT SWITCHES INDICATING EQUIPMENT SERVED.

D. BRANCH CIRCUITS – IDENTIFY EACH CIRCUIT W/ WIRE MARKERS WHEN ENCLOSURE LABEL AND WIRE COLORS DO NOT PROVIDE ENOUGH INFORMATION TO IDENTIFY EACH CIRCUIT WITHOUT TRACING. FEEDERS & BRANCH CIRCUIT HOME RUNS W/ WIRE MARKER W/ PANEL & CKT #. BOX COVERS ABOVE LAY-IN CEILINGS NEATLY MARKED W/ INDELIBLE MARKER.

SECTION 16400 – WIRING DEVICES

A. CONVENIENCE OUTLETS – SPEC GRADE 20 AMP DUPLEX W/ GROUND & SS WALL PLATES. OTHER OUTLETS SHALL BE VERIFIED W/ EQUIPMENT SUPPLIERS FOR PROPER NEMA CONFIGURATIONS. PROVIDE GFIC RATED DEVICES WHERE INDICATED AND AS REQ'D PER CODE.

B. PROVIDE GFCI RATED DEVICES WHERE INDICATED AND ANYWHERE REQUIRED PER THE NEC.

C. PROVIDE AFCI PROTECTION ON ALL CIRCUITS REQUIRED PER THE NEC.

D. PROVIDE TAMPER RESISTANT RECEPTACLES ON ALL RECEPTACLES IN PUBLIC AREAS, AREAS ACCESSIBLE TO CHILDREN, AND WHERE OTHERWISE REQUIRED TO BE TAMPER RESISTANT PER THE NEC.

E. LIGHT SWITCHES – SPEC GRADE 20 AMP TOGGLE SWITCHES W/ SS WALL PLATES.

F. WALL MOTION SWITCHES – SPEC GRADE, PIR, OVERRIDE.

G. CEILING MOTION SWITCHES – SPEC GRADE, DUAL TECHNOLOGY, MODEL AS REQ'D BY ROOM CONFIGURATION, ALL NECESSARY POWER PACKS AND RELAYS.

H. WALL MOTION SWITCHES (BATHROOM) – DUAL RELAY, SPEC GRADE, PIR, 2ND RELAY FOR OPERATION OF EXHAUST FAN DELAY.

I. COLOR OF DEVICES AS DIRECTED BY ARCHITECT.

J. EQUIVALENT DEVICES BY LEVITON, BRYANT, HUBBELL, WATTSTOPPER, LITHONIA, SENSOR SWITCH.

EXECUTION

A. ALL OUTLETS, SHALL BE MOUNTED W/ BOTTOM AT 18" AFF & SWITCHES W/ BOTTOM AT 44" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE ON PLANS. REFER TO ARCH FOR OTHER REQUIRED ELEVATIONS AND CABINETRY COORDINATION.

SECTION 16500 – LED LUMINAIRES

LUMINAIRES

A. PROVIDE LIGHTING FIXTURES W/ ALL ACCESSORIES REQ'D FOR HANGING. COORD MOUNTING OF LIGHTING FIXTURES W/ ARCHITECT & G/C. ADDITIONAL FIXTURE SUPPORTS SHALL BE PROVIDED BY E/C. SUPPORTS SHALL COMPLY W/ LATEST EDITION OF NEC. PROVIDE LIGHTING FIXTURE SECURING CLIPS AS REQUIRED. CONSULT ARCH PLANS FOR CEILING TYPES & PROVIDE SURFACE & RECESSED LIGHTING FIXTURES W/ APPROPRIATE MOUNTING COMPONENTS & ACCESSORIES.

B. REFER TO LIGHTING FIXTURE SCHEDULE PLANS FOR FIXTURE TYPES.

C. EQUIVALENT LUMINAIRES BY CREE, COOPER, HUBBELL, INFINITY, LITHONIA, WILLIAMS, COLUMBIA, EXITRONICS, LITEALARM, EXIDE, MULE, DUALLITE

SECTION 16700 – LOW VOLTAGE CABLING

A. PROVIDE BROADBAND RG COAXIAL CABLE FOR CABLE TELEVISION OUTLETS.

B. PROVIDE ALL NECESSARY CABLING, EQUIPMENT, BOXES, SPLITTERS, CONNECTORS, COVERS, ETC. FOR COMPLETE & OPERATIONAL SYSTEM.

EXECUTION

A. CABLING SHALL BE INSTALLED CONCEALED IN NEW & EXISTING CONSTRUCTION.

B. CABLING SHALL BE UL LISTED FOR INTENDED USE & INSTALLED IN ACCORDANCE W/ APPROPRIATE ARTICLES FROM LATEST NEC.

ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	EA	EXHAUST AIR	MH	MANHOLE
AFF	ABOVE FINISHED FLOOR	ELEV	ELEVATION	MLO	MAIN LUGS ONLY
AFG	ABOVE FINISHED GRADE	EM	EMERGENCY FIXTURE/DEVICE	NL	NIGHT LIGHT
AG	ABOVE GRADE	EWT	ENTERING WATER TEMPERATURE	OA	OUTSIDE AIR
AHJ	AUTHORITY HAVING JURISDICTION	EX	EXISTING ITEM	ORD	OVERFLOW ROOF DRAIN
AHU	AIR HANDLING UNIT	FFCO	FINISHED FLOOR CLEAN OUT	P/C	PLUMBING CONTRACTOR
ARCH	ARCHITECT	FGCO	FLUSH GRADE CLEAN OUT	PSI	POUNDS PER SQUARE INCH
BFP	BACKFLOW PREVENTER	FL	FLOW LINE	PVC	POLYVINYLCHLORIDE
BG	BELOW GRADE	FLR	FLOOR	RA	RETURN AIR
BLDG	BUILDING	FP	FIRE PROTECTION	RE/REF	REFER / REFERENCE
BMS	BUILDING MANAGEMENT SYSTEM	FPM	FEET PER MINUTE	RF	RELIEF FAN
C	CONDUIT	FWCO	FLUSH WALL CLEAN OUT	RL	RELOCATED ITEM
CD	CANDELA	G	GROUND / GANG	RPZ	REDUCED PRESSURE ZONE
CLG	COOLING	G/C	GENERAL CONTRACTOR	RR	RESTROOM
CM	COORDINATE MOUNTING HEIGHT	GFCI	GROUND FAULT CIRCUIT INTERUPTER	SA	SUPPLY AIR
CO	CLEAN OUT	GPM	GALLONS PER MINUTE	ST	SHUNT TRIP
CTE	CONNECT TO EXISTING	HTG	HEATING	TA	TRANSFER AIR
DCVA	DOUBLE CHECK VALVE ASSEMBLY	IG	ISOLATED GROUND	TP	TAMPERPROOF
DCW	DOMESTIC COLD WATER	JB	JUNCTION BOX	TYP	TYPICAL
DDC	DIRECT DIGITAL CONTROLS	LED	LIGHT EMITTING DIODE	UNO	UNLESS NOTED OTHERWISE
DHW	DOMESTIC HOT WATER	M/C	MECHANICAL CONTRACTOR	VTR	VENT THROUGH ROOF
DHWR	DOMESTIC HOT WATER RETURN	MA	MIXED AIR	WCO	WALL CLEANOUT
DIA	DIAMETER	MAU	MAKE UP AIR UNIT	WG	WIRE GUARD
DN	DOWN	MCB	MAIN CIRCUIT BREAKER	WP	WEATHERPROOF
E/C	ELECTRICAL CONTRACTOR	MECH	MECHANICAL		

GENERAL ELECTRICAL NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. COORDINATE LOCATIONS OF RECEPTACLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
3. REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED OTHERWISE.
4. PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
5. CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.

GENERAL PLUMBING NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERISION OF THE INTERNATIONAL PLUMBING CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. NO PIPING SHALL BE INSTALLED WHERE IT WILL SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF BUILDING INSULATION, INSULATED AND THE CHASE SHALL BE VENTILATED WITH GRILLES ALLOWING INDOOR AMBIENT CONDITIONS TO CIRCULATE THROUGH THE CHASE.
3. PROVIDE CLEANOUTS IN THE FOLLOWING LOCATIONS:
   - 3.1. IN ALL HORIZONTAL DRAINS (WITHIN THE BUILDING) NOT MORE THAN 100 FEET APART.
   - 3.2. IN BUILDING SEWERS LOCATED NO MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT.
   - 3.3. EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR SOIL LINES GREATER THAN 45 DEGREES.WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.
   - 3.4. AT THE BASE OF EACH WASTE OR SOIL STACK.
   - 3.5. NEAR THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER.

FIRE SEALING NOTES

1. COORDINATE CONSTRUCTION OF OPENINGS AND PENETRATING ITEMS TO ENSURE THAT THROUGH-PENETRATION FIRESTOP SYSTEMS ARE INSTALLED ACCORDING TO SPECIFIED AND APPLICABLE UL REQUIREMENTS.
2. COORDINATE SIZING OF SLEEVES, OPENINGS, CORE-DRILLED HOLES, OR CUT OPENINGS TO ACCOMMODATE THROUGH-PENETRATION FIRESTOP SYSTEMS.
3. DO NOT COVER UP THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLATIONS UNTIL EXAMINED BY NSPECTOR, IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
4. COMPATIBILITY: PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS THAT ARE COMPATIBLE WITH ONE ANOTHER; WITH THE SUBSTRATES FORMING OPENINGS; AND WITH THE ITEMS, IF ANY, PENETRATING THROUGH-PENETRATION FIRESTOP SYSTEMS, UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
5. PROVIDE COMPONENTS FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS. USE ONLY COMPONENTS SPECIFIED BY THROUGH-PENETRATION FIRESTOP SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR FIRESTOP SYSTEMS INDICATED.
6. PROVIDE SLEEVES THROUGH ALL FIRE_RATED WALLS AND FILL VOIDS SURROUNDING SLEEVES AND INTERIOR TO SLEEVES AROUND PIPING WITH FIRE STOP PUTTY WITH U.L. LISTED 3 HOUR RATING INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS.
7. FIRE SEAL ALL PIPING, CONDUIT, CABLE, ETC PENETRATIONS ROUTED THROUGH FIRE RATED WALLS.
8. PROVIDE FIRE RATED ENCLOSURES OR WRAPS ON LIGHT FIXTURES AND OTHER ITEMS PENETRATING FIRE RATED CEILINGS, FLOOR/CEILING/ CEILING/ROOF ASSEMBLIES TO MAINTAIN UL LISTING FOR CONSTRUCTION.

GEN. MECHANICAL NOTES

1. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERISION OF THE INTERNATIONAL MECHANICAL CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
2. ANY POWER FOR CONTROL SYSTEMS TO BE PROVIDED BY E/C IS INDICATED ON ELECTRICAL PLANS. ANY ADDITIONAL LINE VOLTAGE OR LOW VOLTAGE POWER REQUIRED BY THE M/C OR SUBCONTRACTORS TO HAVE A FULLY FUNCTIONING SYSTEM SHALL BE PROVIDED BY THE M/C CONTRACTOR OR SUBS.
3. ALL EQUIPMENT SHALL BE ADEQUATELY AND PROPERLY SUPPORTED AND FASTENED FROM STRUCTURE.
4. ALL EQUIPMENT AND ACCESSORIES INSTALLED IN CONCEALED SPACES REQUIRING ACCESS SHALL BE PROVIDED WITH ACCESS DOORS MEETING ANY FIRE REQUIREMENTS OF THE WALL/CEILING THEY ARE INSTALLED.
5. EACH AIR HANDLING UNIT OVER 2000CFM SHALL BE PROVIDED WITH A SMOKE DETECTOR TO SHUT DOWN THE UNIT PER IMC 606 AS REQUIRED BY AHJ. COORDINATE WITH OTHER TRADES.
6. START UP AND ADJUST ALL EQUIPMENT AND VERIFY ALL MECHANICAL SYSTEMS IN OPERATE IN ACCORDANCE WITH THEIR INTENDED PURPOSES. SUBMIT BALANCE AND START UP REPORTS TO THE A/E. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.

GENERAL NOTES

1. SOME ROOM NAMES MAY NOT BE SHOWN FOR PURPOSE OF CLARIFYING PLAN. REFER TO ARCHITECTURAL PLANS FOR REFERENCE TO ROOM NAMES NOT SHOWN.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP AT THE JOB SITE, AN UP TO DATE SET OF "RECORD DRAWINGS" SHOWING ALL CHANGES FROM THE ORIGINAL PLANS. THE CONTRACTOR SHALL DELIVER THE "RECORD DRAWINGS" TO THE ENGINEER AT THE CONCLUSION OF THE PROJECT ELECTRONICALLY.
3. THESE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS (NEW AND EXISTING), DIMENSIONS, AND CLEARANCES PRIOR TO THE COMMENCEMENT OF WORK AND SHALL INCLUDE ALL COSTS, EQUIPMENT, MATERIAL, ACCESSORIES, ETC. REQUIRED FOR A FULLY COMPLETE, FUNCTIONAL AND CODE COMPLIANT INSTALLATION.
4. FINAL LOCATIONS OF ALL DEVICES, LIGHT FIXTURES, EQUIPMENT ETC SHALL BE INDICATED ON THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM ARCHITECTURAL PLANS. NO DIMENSIONAL INFORMATION SHALL BE OBTAINED FROM MEP DRAWINGS.
5. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS, LICENSES, ETC. AS NEEDED FOR THE COMPLETE INSTALLATION AND PROJECT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL FEES AND DATA NEEDED FOR THIS.

GEN. RENOVATION NOTES

1. DISCONNECT AND REMOVE ANY EQUIPMENT, PIPING OR DUCTWORK THAT WAS INSTALLED AS PART OF THE BUILDING SHELL THAT IS NOT NEEDED OR CONFLICTS WITH THIS BUILD OUT.
2. EXISTING UNDERGROUND PIPING LOCATIONS ARE ESTIMATED BASED UPON ANTICIPATED ROUTINGS. FIELD VERIFY EXACT LOCATIONS DURING CONSTRUCTION AND PROVIDE ALL NECESSARY MODIFICATIONS.
3. SAWCUT GRADE FLOOR SLABS TO INSTALL NEW PIPING, MECHANICAL SYSTEMS, ELECTRICAL FLOOR BOXES AND ALL ASSOCIATED CONDUIT, ETC. PATCH FLOOR TO MAKE LIKE NEW AFTER INSTALLATION. TAKE CARE TO LOCATE EXISTING CONDUIT, ETC AND AVOID CUTTING EXISTING CONDUITS BY NOT OVERCUTTING SLAB DEPTH.
4. SAWCUT AND CORE DRILL OPENINGS AS REQUIRED FOR ABOVE GRADE SLAB PENETRATIONS. XRAY SLABS TO ASCERTAIN STEEL AND EXISTING CONDUIT PENETRATIONS PRIOR TO CUTTING. VERIFY OPENINGS WITH STRUCTURAL ENGINEER PRIOR TO CUTTING.
5. HOMERUN CIRCUITS TO 20 AMP, SINGLE POLE BREAKERS IN PANELBOARDS INDICATED. UTILIIZE SPARE BREAKERS MADE AVAILABLE BY DEMOLITION, IF NO SPARE BREAKER IS AVAILABLE, PROVIDE NEW BREAKER.
6. EXISTING CIRCUITING MAY BE RE-USED WHERE POSSIBLE.
7. CONCEAL NEW CIRCUITING IN WALLS WHERE POSSIBLE. FOR NEW DEVICES INSTALLED ON EXISTING SOLID WALLS, CONCEAL CIRCUITING IN WIREMOLD. COORDINATE FINISH AND GENERAL ROUTING OF WIREMOLD WITH ARCHITECT TO BE AS CONCEALLED AND/OR ROUTED IN A NEAT AND ORGANIZED CONSISTENT MANNER.

COORDINATION NOTES

1. COORDINATE REQUIREMENTS FOR INSTALLATION OF SYSTEMS AND EQUIPMENT WITH ALL OTHER TRADES.
2. THE CONTRACTOR SHALL COORDINATE THE ROUTING AND PATH OF ALL SYSTEMS, CONDUITS, PIPES, DUCTS, ETC WITH THE POSITION AND LAYOUT OF THE STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY OFFSETS, TURNS, RISES AND DROPS FOR SYSTEMS AND COMPONENTS AS NEEDED TO INSTALL THE MEP SYSTEMS TO CLEAR STRUCTURE, CEILINGS, ETC AND OTHER SYSTEMS IN POTENTIAL CONFLICT WITH ROUTING.
3. COORDINATE WORK WITH OTHER TRADES TO INSTALL SYSTEMS ABOVE CEILING HEIGHTS INDICATED ON ARCHITECTURAL PLANS.
4. CHECK SPACE REQUIREMENTS WITH OTHER TRADES AND STRUCTURE/CONSTRUCTION TO INSURE THAT ALL MATERIALS AND EQUIPMENT CAN BE INSTALLED IN THE SPACE ALLOTTED INCLUDING FINISHED SUSPENDED CEILINGS AND OTHER SPACES, CHASES, ETC WITHIN THE BUILDING. MAKE MODIFICATIONS THERETO AS REQUIRED AND APPROVED.
5. TRANSMIT TO OTHER TRADES ALL INFORMATION REQUIRED FOR WORK TO BE PROVIDED UNDER THEIR RESPECTIVE SECTIONS IN AMPLE TIME FOR INSTALLATION.
6. WHEREVER WORK INTERCONNECTS WITH WORK OF OTHER TRADES, COORDINATE WITH THOSE TRADES TO INSURE THAT ALL SUBCONTRACTORS HAVE THE INFORMATION NECESSARY SO THAT THEY MAY PROPERLY INSTALL ALL CONNECTIONS AND EQUIPMENT. IDENTIFY ALL ITEMS OF WORK THAT REQUIRE ACCESS SO THAT THE CEILING TRADE WILL KNOW WHERE TO INSTALL ACCESS DOORS AND PANELS.
7. COORDINATE, PROJECT AND SCHEDULE WORK WITH OTHER TRADES IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE.
8. DRAWINGS SHOW THE GENERAL RUNS OF CONDUITS, PIPING AND DUCTWORK AND APPROXIMATE LOCATION OF OUTLETS. ANY SIGNIFICANT CHANGES IN LOCATION OF ITEMS NECESSARY IN ORDER TO MEET FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER AND RECEIVE HIS APPROVAL BEFORE SUCH ALTERATIONS ARE MADE. ALL SUCH MODIFICATIONS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND REPAIR OF SURFACES, AREAS AND PROPERTY THAT MAY BE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
10. ADJUST LOCATION OF PIPING, DUCTWORK, ETC. TO PREVENT INTERFERENCES, BOTH ANTICIPATED AND ENCOUNTERED. DETERMINE THE EXACT ROUTE AND LOCATION OF EACH ITEM PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITIONS AND CHANGES IN DIRECTION IN SYSTEMS AS REQUIRED TO MAINTAIN ADEQUATE CLEARANCES AND HEADROOM.
11. WHEREVER THE WORK IS OF SUFFICIENT COMPLEXITY, PREPARE ADDITIONAL COORDINATION DRAWINGS AND ORGANIZE ON-SITE MEETINGS WITH ALL RELATED SUBCONTRACOTRS TO COORDINATE THE WORK BETWEEN TRADES . DRAWINGS SHALL CLEARLY SHOW THE WORK AND ITS RELATION TO THE WORK OF OTHER TRADES, AND BE SUBMITTED FOR REVIEW PRIOR TO COMMENCING SHOP FABRICATION OR ERECTION IN THE FIELD.
12. COORDINATE WITH LOCAL UTILITY PROVIDERS FOR THEIR REQUIREMENTS FOR SERVICE CONNECTIONS AND PROVIDE ALL NECESSARY PAYMENTS, MATERIALS, LABOR AND TESTING TO ACCOMPLISH THE WORK.

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CD
JUNE 14, 2024

Revisions

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NICK THE GREEK
STREETS OF WEST PRYOR
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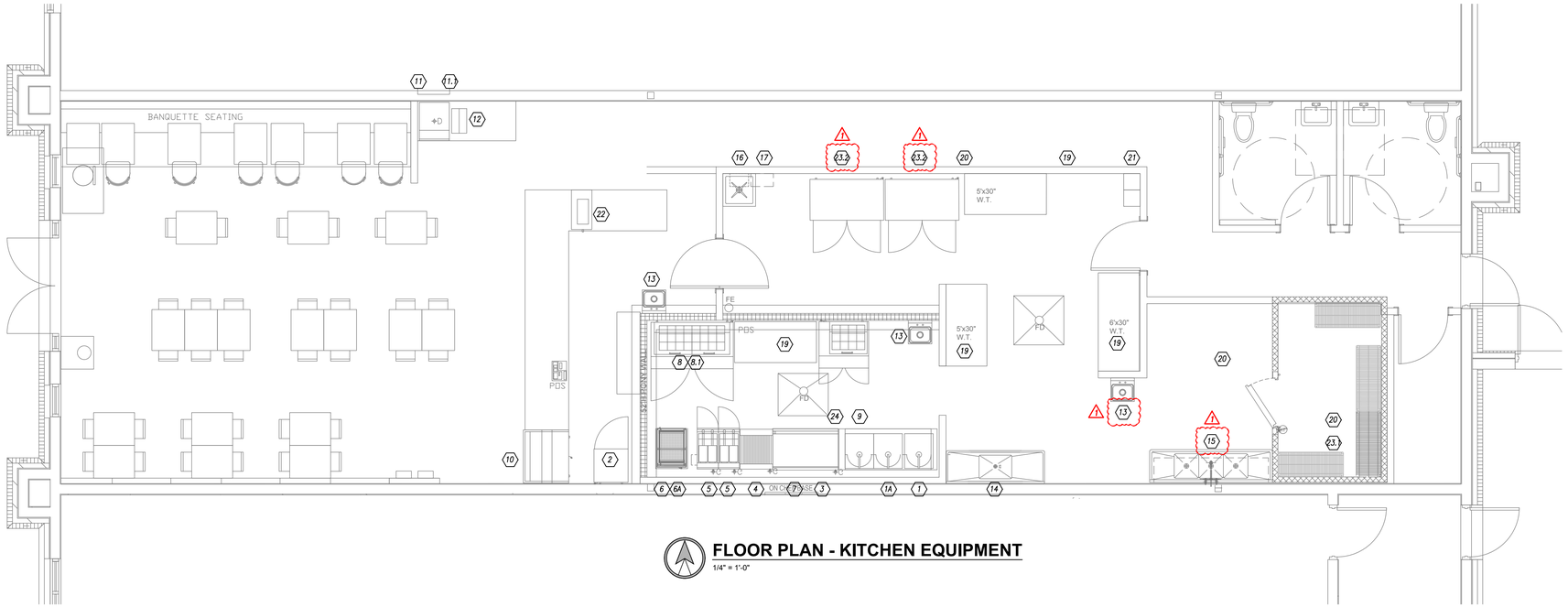
LEE'S SUMMIT, MO

sheet
ME1.0
MECHANICAL & ELECTRICAL SPECIFICATIONS



FLOOR PLAN - KITCHEN EQUIPMENT

1/4" = 1'-0"

EQUIPMENT SCHEDULE

Item No	Qty	Equipment Category	Manufacturer (or equal)	Model Number (or equal)	Equipment Remarks	Weight (lb)	Amps	KW	HP	Volts	Phase	Direct	Plug	NEMA	Cold Water Size (in)	Hot Water Size (in)	Direct Drain Size (in)	Indir Drain Size (in)	Gas Size (in)	MBTUH
1	3	BROILER, VERTICAL	UNIWORLD	VBR-2E		69	2			110	1		X	5-15P					0.75	25
1A	1	TABLE, WORK	TURBO AIR	TSW 3072SB	SEE NOTE 4	74														
2	1	PEPSI COOLER	QBD COOLING SYSTEMS	CD12-HC			3.6			120	1		X	5-15P						
3	1	GRIDDLE, GAS	AMERICAN RANGE	ARMG-48		365													0.75	120
4	1	CHARBROILER, GAS	AMERICAN RANGE	AERB-24		193													0.75	60
5	2	FRYER, DEEP FAT, GAS	AMERICAN RANGE	AF35/50		36													0.75	120
6	1	REFRIGERATED WORK TOP	TURBO AIR	TWR-28SD-D2-N	SEE NOTE 4	163	2.2		0.2	115	1		X	5-15P						
6A	1	WARMER, FOOD, ELECTRIC	HATCO	GRFHS-21	ON #6	180	10.0	1.2		120	1		X	5-15P						
7	1	REFRIGERATOR, CHEF BASE	TRUE FOOD SERVICE	TRCB-72	SEE NOTE 4	*485	9.9	1.1	0.33	115	1		X	5-15P						
8	1	REFRIGERATOR, SANDWICH/SALAD PREP	TRUE FOOD SERVICE	TSSU-60-24M-B-ST-ADA		370	7.8		0.33	115	1		X	5-15P						
8.1	1	REFRIGERATOR, SANDWICH/SALAD PREP	TRUE FOOD SERVICE	TSSU-36-12M-B-ADA		350	4.5		0.25	115	1		X	5-15P						
9	1	WARMING DRAWER	VULCAN	VW2S	ON UNDERSHELF	255		0.95		120	1		X	5-15P						
10	1	DISPLAY CASE, REFRIGERATED	TURBO AIR	TOM-W-40SB	ON 6" HIGH LEGS	135	11.0		0.5	115	1		X	5-15P						
11	1	DISPENSER, ICE/BEVERAGE	MANITOWOC ICE	M-150 W/6 VALVES		335	2.5/2.4			(2)120	1	X	X	5-15P				(2).75		
11.1	1	ICE MAKER FOR BEVERAGE DISPENSER	MANITOWOC ICE	IB-0696YC		130	1.1/11		1.0	115/208	1	X	X	5-15P	0.375			0.5		
12	1	BUBBLER MINI TWIN	CRATHCO	CS-2E			3.6			120	1		X	5-15P						
13	1	SINK, HAND, WALL MOUNT	KROWNE	HS-22	SEE NOTE 6	14														
14	1	SINK, PREP	TURBO AIR	TSB-1-L2	SEE NOTE 6	70									0.5	0.5		1.5		
15	1	SINK, 3 COMPARTMENT	TURBO AIR	TSA-3-D1	SEE NOTE 6	84											1.5			
15.1	1	PRE-RINSE FAUCET	FISHER	13390	SEE NOTE 6	12									0.5	0.5				
16	1	SINK, MOP	SELECT STAINLESS OR EQUAL	MS-2020-12	SEE NOTE 6	57														
17	1	WATER HEATER, TANKLESS	A.O. SMITH	ACT-1991-N		71				120	1	X								
18	1	SHELF, WALL MOUNT	EAGLE GROUP or EQUAL	SNSW1272C	WALL MOUNT ABOVE SINK W/ PERMANENT BRACKETS	14														
19	3	TABLE, WORK	GSW	WT-PB****		88/141														
20	lot	SHELVING, WIRE*	EAGLE GROUP or EQUAL	5 TIER S/S	SEE NOTE 5	12														
21	2	LOCKERS, EMPLOYEE	KELMAX.	EL5 (5 TIER)		78														
22	1	SOFT SERVE MACHINE	STOELTING	E111-37I-B		224	14	1.6	0.5	115	1	X		5-20P			3.0			
23.1	1	REFRIGERATOR, WALK-IN UNIT	MASTER-BILT OR EQUAL	READY-BLT	SEE NOTES 8,10,12,17															
23.2	1	FREEZER, DOUBLE DOOR	TURBO AIR	TSF-49SD-N	SEE NOTES 10,12	457	5.5		2/3	115	1		X	5-15P						
24	1	TYPE 1 HOOD	CAPTIVE AIRE	15'L x 4.5' W TYPE 1	SEE MECH PLANS	967														
		HOOD EXHAUST FAN	CAPTIVE AIRE	USBI18DD-RM		404														
		HOOD MAKE-UP AIR FAN	CAPTIVE AIRE	A2-20D		708														

EXHAUST AND MAKE-UP AIR WILL BE ELECTRICALLY INTERLOCKED.

EQUIPMENT NOTES:

1. ALL NEW EQUIPMENT TO BE NSF OR EQUAL & PROPERLY LABELED.
2. SERVICE COUNTERS TO BE MAX. 34" TALL FOR HANDICAP ACCESSIBILITY.
3. ALL EXISTING EQUIPMENT TO BE NSF APPROVED OR EQUIVALENT AND REFURBISHED TO ITS ORIGINAL CONDITION.
4. EQUIP WITH LOCKABLE HEAVY DUTY CASTERS TO FACILITATE CLEANING OF FLOORS.
5. ALL STORAGE SHELVING TO HAVE MIN. 6" LEGS TO FACILITATE CLEANING OF FLOOR; NO STORAGE SHELVING TO BE IN EXCESS OF 5'-9" HIGH OR GREATER THAN 400LB. TOTAL LINEAR FEET OF DRY STORAGE ON WIRE SHELING IS GRATER THAT 98 FT. (OR 20+ LINEAR FEET OF 5 TIER SHELVING).
6. THE CONTORLS OF ALL SINKS SHALL: (1) BE OPENABLE WITH ONE HAND AND SHALL NOT REQUIRE GRASPING, PINCHING, OR TWISTING OF WRIST; (2) REQUIRE NO MORE THAN 5 LBS. FORCE TO ACTIVATE; & (3) BE LEVER-OPERATED, PUSH-TYPE, ELECTRONICALLY-CONTROLLED, OR SIMILAR.

6.1 ALL HAND SINKS TO HAVE WING TYPE WRITE LEVERS OR EQUAL, HEAVY DUTY LIQUID SOAP AND PAPER TOWEL DISPENSERS, AND TWO SPLASH GUARDS (EQUAL TO KROWNE HS-28L OR HS30L)

7. EXHAUST AND MAKE-UP AIR WILL BE ELECTRICALLY INTERLOCKED.
8. WALK-IN REFRIGERATOR OR FREEZER MUST BE COMPLETELY FLASHED TO THE BUILDING'S WALLS AND CEILING. THE AREAS ABOVE WALK-IN UNIT MAY NOT BE USED FOR STORAGE. ANY OPENINGS FOR VENTILATION IN THE FLASHING ABOVE THE WALK-IN UNIT MUST BE SCREENED WITH AT LEAST 16 MESH SCREEN. PROVIDE 2" AIR GAP BETWEEN PANELS AND WALLS.
9. PROVIDE EXTRA LONG FLEXIBLE GAS LINES TO ALL EQUIPMENT.
10. ALL ENCLOSED EQUIPMENT (E.G. REFRIGERATORS, FREEZERS, HOT FOOD HOLDING UNITS, OVENS, & SIMILAR EQUIPMENT) MUST HAVE ADEQUATE (20+ FOOT CANDLES) INTERIOR LIGHTING.
12. COLD OR HOT HOLDING EQUIPMENT USED FOR POTENTIALLY HAZARDOUS FOOD SHALL BE DESIGNED TO INCLUDE & SHALL BE EQUIPPED WITH AT LEAST ONE INTEGRAL OR PERMANENTLY AFFIXED TEMP. MEASURING DEVICE LOCATED TO ALLOW EASY VIEWING OF TEMP. DISPLAY. THIS DISPLAY MUST HAVE A SCALE, PRINTED RECORD, OR READOUT IN INCREMENTS NO GREATER THAN 2°F OVER INTENDED RANGE OF USE.
13. METAL SPLASHGUARD WITH HEIGHT OF AT LEAST 6" THAT EXTENDS FROM THE BACK OF THE DRAINBOARD TO THE FRONT EDGE OF THE DRAINBOARD OR FULL DEPTH OF SINK FOR HAND SINKS; CORNERS OF BARRIER ARE TO BE ROUNDED.
14. 8" MIN. HIGH STAINLESS STEEL SPLASH GUARD BETWEEN FRYER AND OTHER EQUIPMENT. THE 8" HEIGHT MUST BE MEASURED FROM THE HIGHER OF THE TWO PIECES OF EQUIPMENT.
15. PREP SINK TO HAVE MIN. BOWL SIZE OF 18" X 18" X 12"
16. ALL EQUIPMENT STANDING ON FLOOR IS ON LEGS AT LEAST 6" HIGH OR IS EQUIPPED WITH CASTORS
17. WALK IN COOLER/FREEZER SHALL COMPLY W/ IBC 2603.2. FLAME SPREAD INDEX OF NOT MORE THAN 75 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 450 WHERE TESTED IN THE MAXIMUM THICKNESS INTENDED FOR USE IN ACCORDANCE W/ ASTM E 84 OR UL 723

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
10/27/2024

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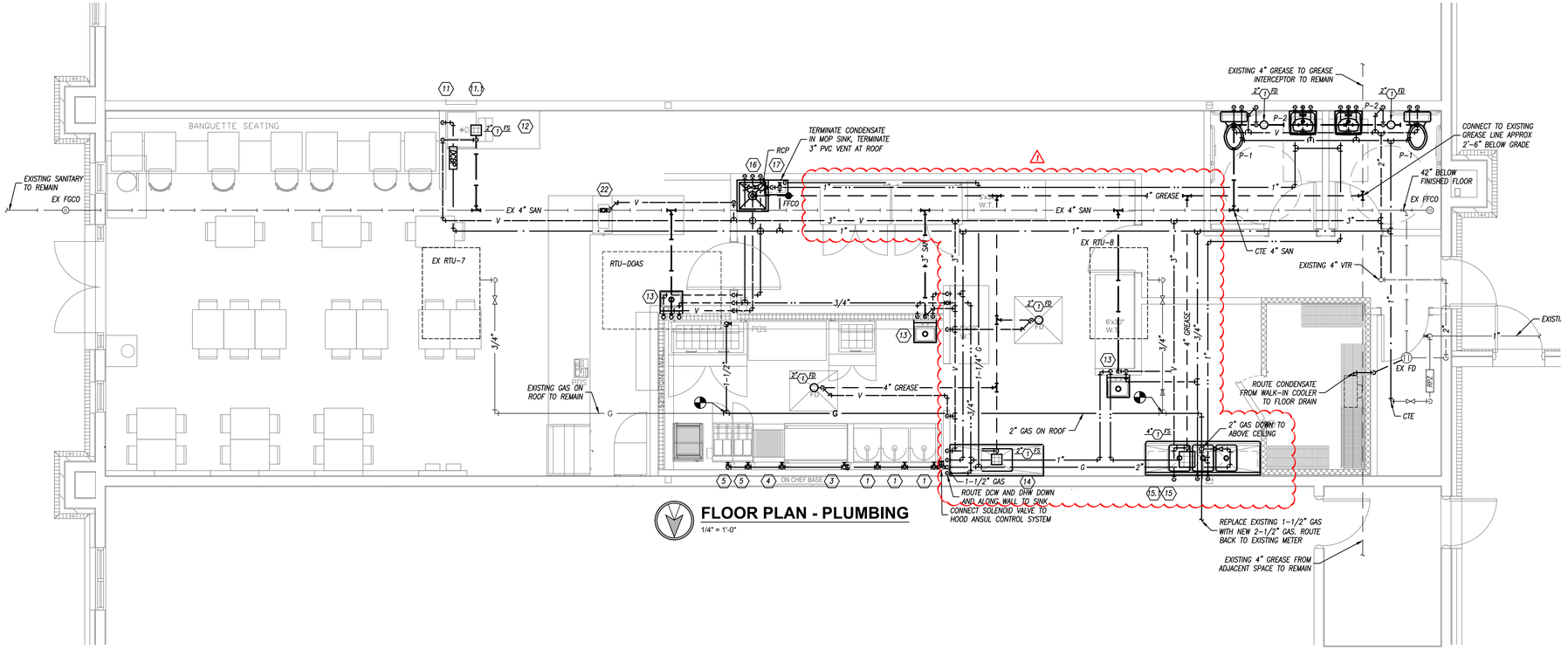
GENERAL PLUMBING NOTES:

1. REFER TO KITCHEN EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION ON MEP CONNECTIONS TO EQUIPMENT.
2. PLUMBING CONTRACTOR SHALL FIELD VERIFY EXISTING UNDERGROUND PIPING PRIOR TO START OF CONSTRUCTION AND VERIFY SIZE AND DEPTH IS ADEQUATE FOR NEW PIPING INSTALLATION.



FLOOR PLAN - PLUMBING

1/4" = 1'-0"

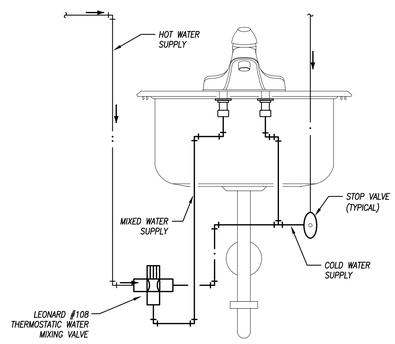
PLUMBING FIXTURE SCHEDULE

PLAN MARK	FIXTURE MODEL	FIXTURE DESCRIPTION	FITTINGS MODEL	FITTINGS DESCRIPTION	PIPE SIZES WASTE	VENT	DCW	DHW
P-1	TOTO DRAKE CST744SL	ADA COMPLIANT WATER CLOSET: FLUSH TANK, WHITE ELONGATED BOWL, 1.6 GALLON SIPHON JET FLUSHING SYSTEM, 2-1/8" TRAP DIAMETER, WITH POLISHED CHROME FLUSH HANDLE MOUNTED ON WIDE SIDE OF RESTROOM STALL, WITH HANDLE STOP VALVE AND METAL FLEXIBLE WATER RISER	TOTO SC534	SEAT: WHITE, SOLID PLASTIC, OPEN FRONT, ELONGATED	4"	2"	1/2"	--
P-2	AMERICAN STANDARD 0355.012	ADA COMPLIANT LAVATORY: WHITE WALL HUNG LAVATORY 20"x18" WITH 4" BACK FAUCET HOLES ON 4" CENTERS, WITH CONCEALED ARM CARRIER. PROVIDE HANDLE STOP VALVES AND FLEXIBLE METAL WATER RISERS. MOUNT TOP OF RIM AT 34" ABOVE FLOOR	AMERICAN STANDARD 2175.504 WATTS LFMMV-M1	FAUCET: 4" CENTERSET, CHROME FINISH WITH 4" METAL LEVER HANDLE, 1/2" CONNECTIONS, 1.5 GPM MAX FLOWRATE. CHROME PLATED BRASS GRID DRAIN, TAILPIECE, AND P-TRAP INSULATE THE TAILPIECE, P-TRAP, AND WATER RISERS THERMOSTATIC MIXING VALVE: BRONZE BODY THERMOSTATIC MIXING VALVE WITH 1/2" CONNECTIONS, FILTER WASHERS, CHECK VALVES AND LOCKABLE ADJUSTMENT CAP. MOUNT IN AN ACCESSIBLE LOCATION BELOW LAVATORY.	2"	2"	1/2"	1/2"

FLOOR / ROOF DRAIN SCHEDULE

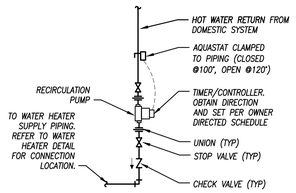
PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	TOP/GRATE SIZE	WASTE SIZE	REMARKS
FD-1	WADE	1100	FLOOR DRAIN	6"ø	2"	---
FS-1	WADE	9100	FLOOR SINK	8"x8"	2"	---
FS-2	WADE	9100	FLOOR SINK	12"x12"	4"	1

REMARKS:
1. PROVIDE WITH 3/4" GRATE.



HAND WASHING SINK/LAVATORY TEMPERED WATER SCHEMATIC

NOT TO SCALE



RECIRCULTING PUMP DETAIL

NOT TO SCALE

PLUMBING PUMP SCHEDULE

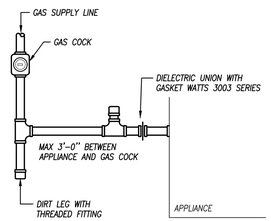
PLAN MARK	MANUFACTURER	MODEL NUMBER	GPM	HEAD FT. W.C.	ELECTRICAL CHARACTERISTICS	MAX. RPM	NOTES
DHW RETURN	BELL & GOSSETT	PL-30B	7	20	1/12 HP, 120V., 1ø	2650	1

NOTES LEGEND
1 - ALL BRONZE CONSTRUCTION.

GAS TANKLESS WATER HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	GALLONS	USE	STYLE	GAS INPUT (MBH)	VOLTAGE/ PHASE	REMARKS
WH-1	AO SMITH	ACT-1991-N	TANKLESS	COMMERCIAL	INSTANTANEOUS	199	120V/1ø	1,2

REMARKS:
1. PLUMBING CONTRACTOR SHALL HAVE THE WATER HEATER INSPECTED AND CERTIFIED BY THE STATE FIRE MARSHAL.
2. PROVIDE NORMALLY CLOSED GAS SOLENOID VALVE WITH 120V COIL VOLTAGE.



TYPICAL GAS CONNECTION

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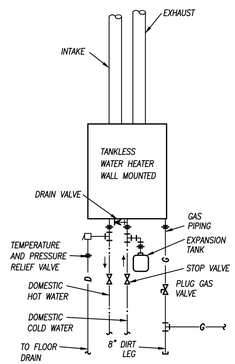
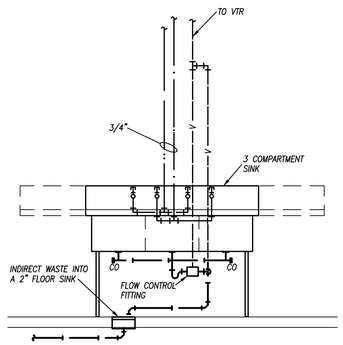


TANKLESS GAS WATER HEATER DETAIL

NO SCALE



#15 3-COMPARTMENT SINK DETAIL

NO SCALE

PIPING MATERIAL & INSULATION SCHEDULE

PIPING SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION TYPE	INSULATION THICKNESS
DOMESTIC COLD WATER	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2"
DOMESTIC HOT WATER & HW RETURN	1/2"-2-1/2"	L	COPPER	SOLDER, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1"
DOM. HOT & COLD BELOW GRADE	1/2"-1-1/4"	K	COPPER	CONTINUOUS TUBING, BRAZED	130 PSI - 1/2HR	YES	ELASTOMERIC	3/4" (HOT ONLY)
DOMESTIC COLD WATER	3"-6"	L	COPPER	BRAZED, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2"
DOMESTIC HOT WATER	3"-6"	L	COPPER	BRAZED, PRO-PRESS	130 PSI - 1/2HR	YES	FIBERGLASS W/ ASJ	1-1/2"
NATURAL GAS - ABOVE GRADE	2-1/2 & Up	SCH. 40	STEEL- SEEMED	WELDED	75 PSI - 1HR	YES	-----	----
NATURAL GAS - ABOVE GRADE	1/2"-2"	SCH. 40	STEEL- SEEMLESS	THREADED IRON	75 PSI - 1HR	YES	-----	----
NATURAL GAS BELOW GRADE	ALL	SDR-11	POLYETHYLENE	FUSION JOINTS	100 PSI - 1HR	NO	-----	----
SOIL & WASTE ABOVE GRADE	1-1/2"-6"	NO HUB / SERVICE WT.	CAST IRON	NO HUB	10 FT - 1/2HR	YES	-----	----
SOIL & WASTE ABOVE GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	-----	----
SOIL & WASTE BELOW GRADE	2"-8"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	-----	----
DRINKING FOUNT. DRAIN	ALL	-----	-----	-----	-----	YES	ELASTOMERIC	1/2"
CONDENSATE DRAIN ON ROOF	3/4"-2"	SCH. 40	PVC	SOLVENT JOINED	10 FT - 1/2HR	NO	-----	---
CONDENSATE DRAIN INTERIOR	1/2"-2"	L	COPPER	SOLDER, PRO-PRESS	10 FT - 1/2HR	YES	FIBERGLASS W/ ASJ	1/2" (PLENUM ONLY)

NOTES
1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2. ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2007 REQUIREMENTS AT A MINIMUM.
3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.

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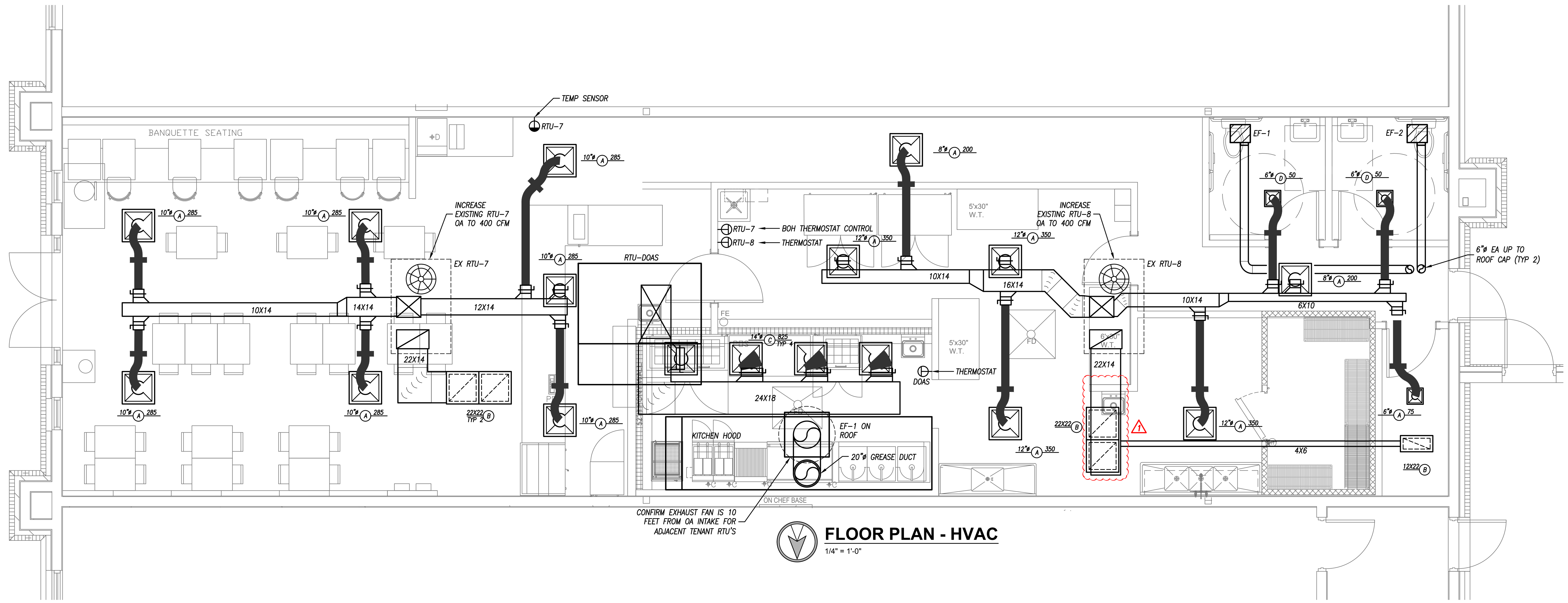

FLOOR PLAN - HVAC

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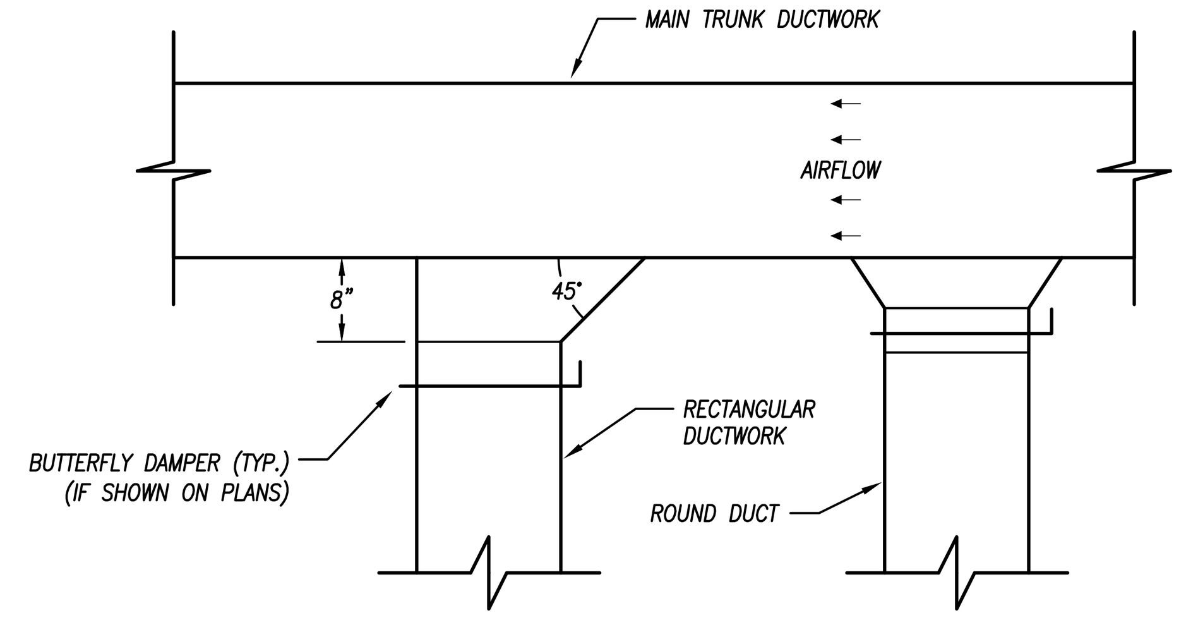

DUCTWORK TAKEOFF

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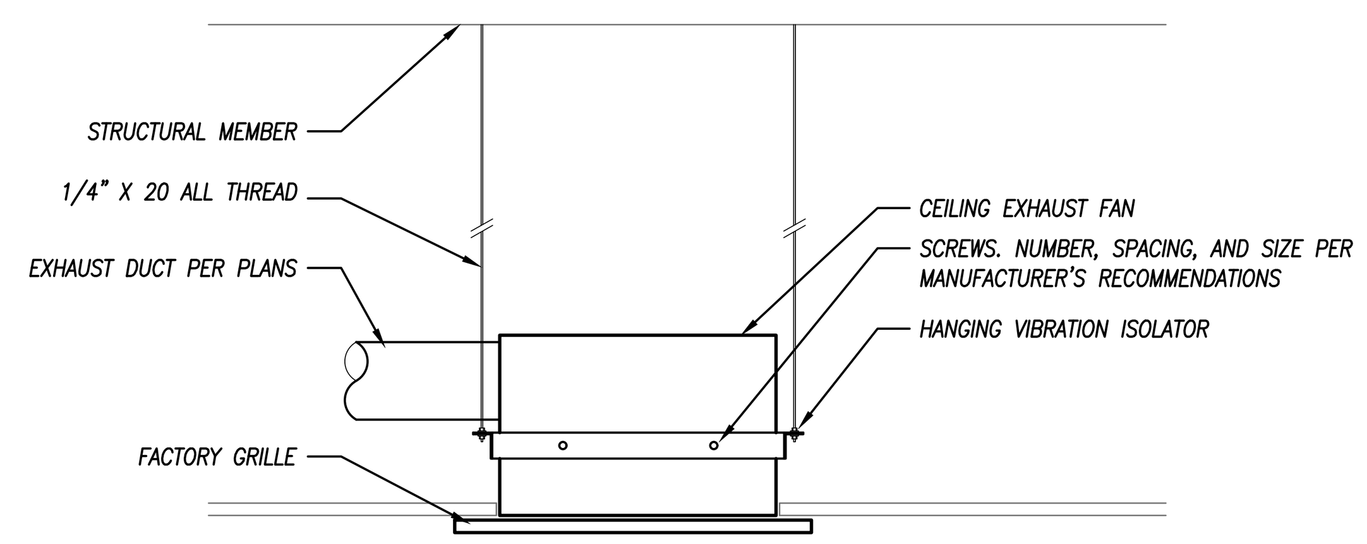


CABINET EXHAUST FAN MOUNTING DETAIL

NOT TO SCALE

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	MOUNT TYPE	VOLUME DAMPER	MATERIAL	MATERIAL COLOR	NOTES
A	PRICE	SMD-3P	SUPPLY	GRID	NO	STEEL	WHITE	1
B	PRICE	535-0	RETURN	GRID	NO	STEEL	WHITE	1
C	PRICE	PDDR	SUPPLY	GRID	NO	ALUMINUM	WHITE	
D	PRICE	SMD-1	SUPPLY	FLANGE	YES	STEEL	WHITE	

NOTES LEGEND

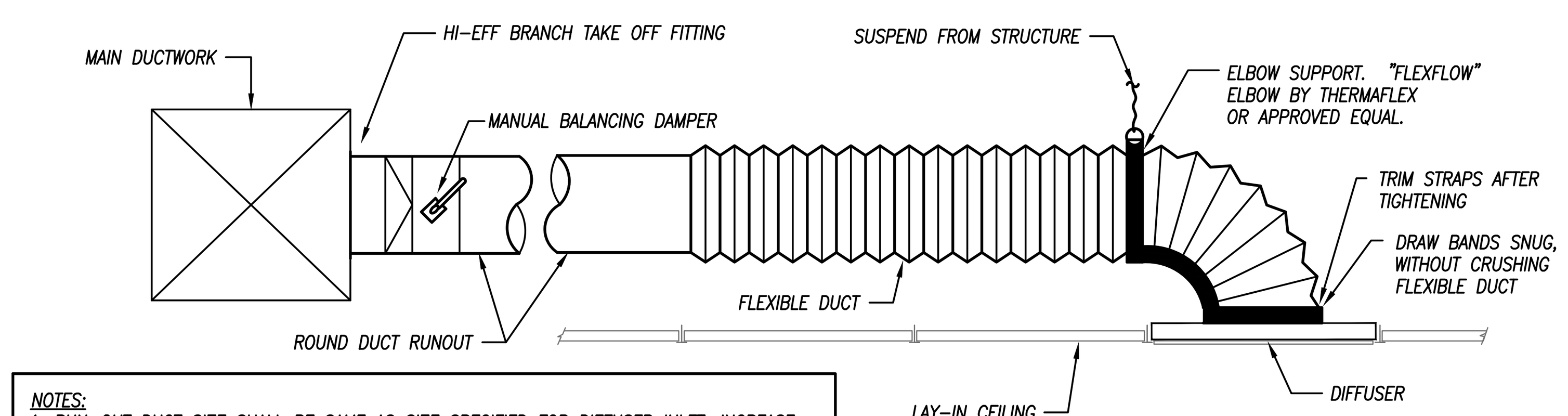
1. PAN TO FIT A 2'X2' GRID.

EXHAUST FAN SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	MOUNTING	SERVICE	CFM	STATIC PRESSURE	ELECTRICAL	DRIVE	DISCONNECT	DAMPER	NOTES
EF-1,2	GREENHECK	SP-B90	CEILING	EXHAUST	75	1/4"	50 WATTS, 120V, 1 PHASE	DIRECT	YES	BACKDRAFT	1

NOTES:

1. PROVIDE 12" ROOF CURB WITH CURB CAP MODEL RCC-7 WITH INTEGRAL BIRDSCREEN.



NOTES:

1. RUN-OUT DUCT SIZE SHALL BE SAME AS SIZE SPECIFIED FOR DIFFUSER INLET. INCREASE RUN-OUT DUCT 2" SIZE WHEN LENGTH OF RUN-OUT DUCT EXCEEDS 20'-0'' AND PROVIDE TRANSITION AT THE DIFFUSER.
2. MAXIMUM FLEXIBLE DUCTWORK LENGTH IS 6'-0" UNLESS OTHERWISE NOTED ON DRAWINGS.
3. FLEXIBLE DUCTWORK MUST BE FULLY EXTENDED AND NOT IN CONTACT WITH PIPES AND/OR CONDUITS.
4. INSTALL FLEXIBLE DUCTWORK SUPPORTS AT ALL ROUND NECK OUTLETS/INLETS UNLESS OTHERWISE NOTED ON DRAWINGS.
5. FLEXIBLE DUCTWORK IS NOT TO BE USED IN UNACCESSIBLE LOCATIONS. (ABOVE GYP. BOARD CEILINGS, ETC.)

DUCT CONNECTION TO LAY-IN DIFFUSER DETAIL

NOT TO SCALE

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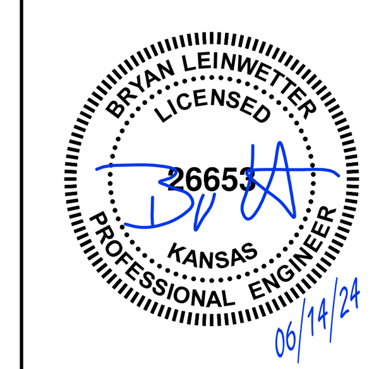

CD
JUNE 14, 2024

Revisions
JUNE 28, 2024

RESTAURANT TENANT INFILL
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STREETS OF WEST PRYOR
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24-211

sheet
M1.0
HVAC PLAN

HOOD INFORMATION – JOB#6837674

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)							HOOD CONSTRUCTION	HOOD CONFIG	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP		END TO END	ROW
1	H-1	5424 ND-2	CAPTIVEAIRE	15' 5"	600 DEG	I	HEAVY	240	3700			4"	18"	3700	2094	-1.334"	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)					LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM		ELECTRICAL	SWITCHES		
												TYPE	SIZE	MODEL #	QUANTITY		
1	H-1	CAPTRATE SOLO FILTER	11	20"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	RIGHT	12"x54"x24"	TANK FS	4.0/4.0			YES	941 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	H-1	LEFT END STANDOFF (FINISHED) 1" WIDE 54" LONG INSULATED.
		STRUCTURAL FRONT PANEL.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT WALL AS END PANEL.

EXHAUST FAN INFORMATION – JOB#6837674

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	EF-1	1	DU240HFA	CAPTIVEAIRE	3700	1.750	942	ODP,PREMIUM	5.000	2.2320	3	208	15.0	841 FPM	263	17.5

DOAS/RTU FAN SCHEDULE – JOB#6837674

FAN INFORMATION										ELECTRICAL INFORMATION					COOLING INFORMATION									REHEAT INFORMATION					GAS HEAT INFORMATION					NOTES
FAN UNIT NO	TAG	QTY	DOAS/RTU MODEL #	MANUFACTURER	BLOWER	RETURN AIR CFM	MAX OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	HP	PHASE	VOLT	MCA	MOCP	OUTSIDE AIR		LEAVING AIR		CAPACITY		IEER	ISMRE	DISCHARGE		CAPACITY		MOISTURE REMOVAL RATE	GAS TYPE	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	
																DB	WB	DB	WB	DP	TOTAL	SENS.			DB	WB	DESIRED	MAX						
2	MAU-1	1	CAS-HVAC3-I.400-18-20T-DOAS	CAPTIVEAIRE	18P-3	0	3300	3300	2702	0.500	3.00	3	208	80.6A	90A	94.0°F	76.0°F	52.4°F	52.4°F	52.5°F	264.0 MBH	149.3 MBH	18.2	6.0	70.0°F	62.0°F	63.3 MBH	129.6 MBH	96.6 LBS/HR	NATURAL	400000	324000	83°F	7 IN. W.C. - 14 IN. W.C.	1,2,3,4,5,6,7,8,9,10,11,12,13,14

NOTES:
1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGERATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR W/ 14GA BASE
11. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NG AND 5:1 TURNDOWN WITH LP
12. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
13. FULLY MODULATING HOT GAS REHEAT
14. DOWN DISCHARGE/NO RETURN

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DU/DR240HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
2	MAU-1	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		1	TOTAL CFM MONITORING
		1	INTAKE FIRESTAT SET TO 135°F
		1	FREEZESTAT
		1	DISCHARGE FIRESTAT SET TO 240°F
		1	SHIP LOOSE GAS STRAINER 1"
		1	SINGLE POINT ELECTRICAL CONNECTION FOR RTU. 750VA TRANSFORMER USED. IF A NON-DCV PREWIRE CONTROLS THIS UNIT, THE #28, #47, "MA", OR "E2" PREWIRE OPTION MUST BE SELECTED. DOES NOT PROVIDE SUPPLY STARTER IN PREWIRE
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	RTU3 DOWN DISCHARGE, 400, 500 MBH
		1	2" MERV 13 FILTERS FOR RTU3 (QTY. 4)
		1	2" MERV 8 FILTERS FOR RTU3 (QTY. 4)
		1	OVERHEAT STAT
		1	RTU3 CURB DUCT HANGER
		1	OCCUPIED SCHEDULING
		1	120V FIRE INPUT
		1	COMMERCIAL SMOKE DETECTOR/ALARM INTERLOCK - ALARM SUPPLIED BY OTHERS
		1	CLOGGED FILTER SWITCH - NOTIFICATION ON HMI
		1	RTU3 CONVENIENCE OUTLET (GFCI), 15 AMP - REQUIRES SEPARATE 120V CONNECTION. INCLUDES RECEPTACLE, COVER AND J-BOX
		1	20 TON MODULATING COOLING OPTION, 208/230V. R410A REFRIGERANT, VARIABLE SPEED COMPRESSOR, ECM CONDENSING FANS
		1	20 TON MODULATING REHEAT OPTION - SPACE DEWPOINT CONTROL - R410A
		1	RTU3 NO RETURN - 100% OA
		1	RTU FIXED 100% OA INTAKE CONTROL
		1	UNIT MOUNTED VFD CONFIGURED FOR DCV
		1	5 YEAR ENTIRE UNIT PARTS WARRANTY, 10 YEAR ENTIRE UNIT PARTS WARRANTY WITH REMOTE MONITORING AND CAPTIVEAIRE SERVICE CONTRACT, 25 YEAR STAINLESS STEEL FURNACE PARTS WARRANTY (SEE ADDITIONAL DETAILS)

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	48 LBS	CURB	31.500"W X 31.500"L X 20.000"H VENTED HINGED.
2	# 2	MAU-1	104 LBS	CURB	59.500"W X 91.000"L X 14.000"H INSULATED.

Operation of All CaptiveAire Equipment to be Verified by Factory Service Technician. Equipment Must be Operational and Fire System shall be Hooked-up and Armed. Report to be Sent to Customer by Manufacturer When Complete.

FOR QUESTIONS CALL:
ANDREW WYSOPAL
LOS ANGELES SALES OFFICE
REFERENCE JOB NUMBER
PHONE: 310.876.8505 REG81@CAPTIVEAIRE.COM

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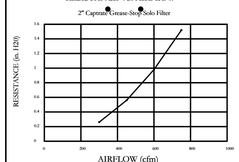
HVAC SCHEDULES & DETAIL

Captrate
Grease-Stop Solo Filter



Filter Detail

CAPTRATE•

EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)

SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED

TOTAL DUCT AREA=144 X $\frac{\text{CFM}}{\text{FPM(*)}}$

DUCT LENGTH= $\frac{\text{TOTAL DUCT AREA}}{\text{DUCT DEPTH}}$

GREASE-STOP SOLO FILTER IS ETL LISTED UNDER FILE NUMBER 3064494-001 AND COMPLIES WITH UL1046 STANDARD, NSF STANDARD #2, NFPA 96 AND IMC

*CAPTIVE-AIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1600-1800 FPM AND A SUPPLY VELOCITY OF 1000 FPM PLEASE CONSULT FACTORY FOR MAXIMUM ALLOWABLE DUCT SIZES

CALCULATIONS UTILIZED

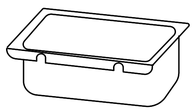
CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

- NFPA #96
- B.O.C.A. #93-16
- I.C.B.O. 3441R
- SBCCI PST & ESI NO. 93137
- E.T.L. LISTED 3054804-001
- LOS ANGELES RR#8080
- ETL IS LISTED TO ULC STANDARDS

NFPA

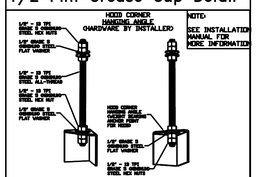
Intertek

BUILDING CODES



GREASE CUP WILL BE SUPPORTED BY TWO STUDS ON THE INSIDE WALL OF THE HOOD. THE GREASE WILL DRAIN THROUGH A CONCEALED GREASE TROUGH AND INTO THIS REMOVEABLE/CLEANABLE CUP.

1/2 Pint Grease Cup Detail

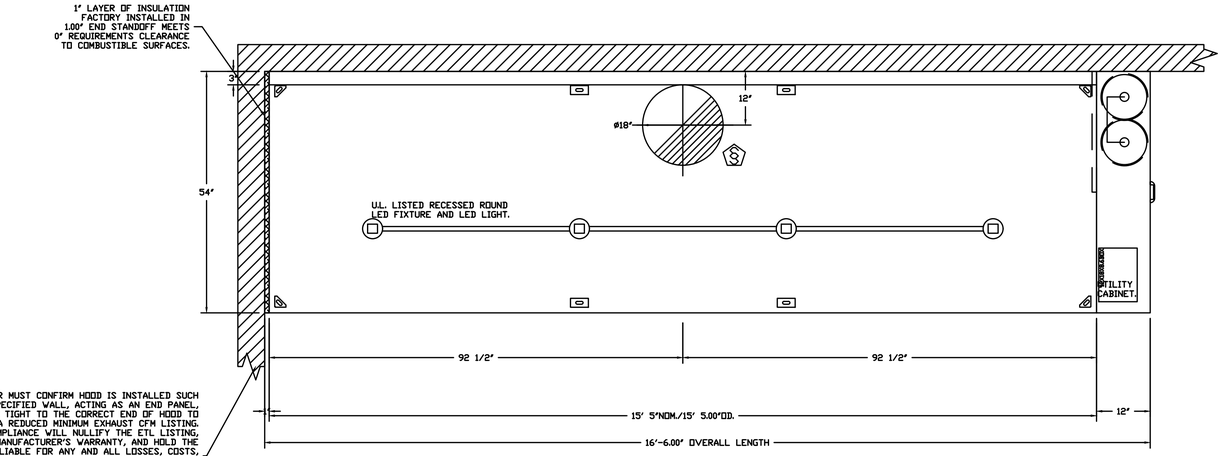


ND-2 HANGING ANGLE DETAIL

HANGING ANGLES WILL BE LOCATED IN THE FOLLOWING LOCATIONS FOR WALL CANOPIES

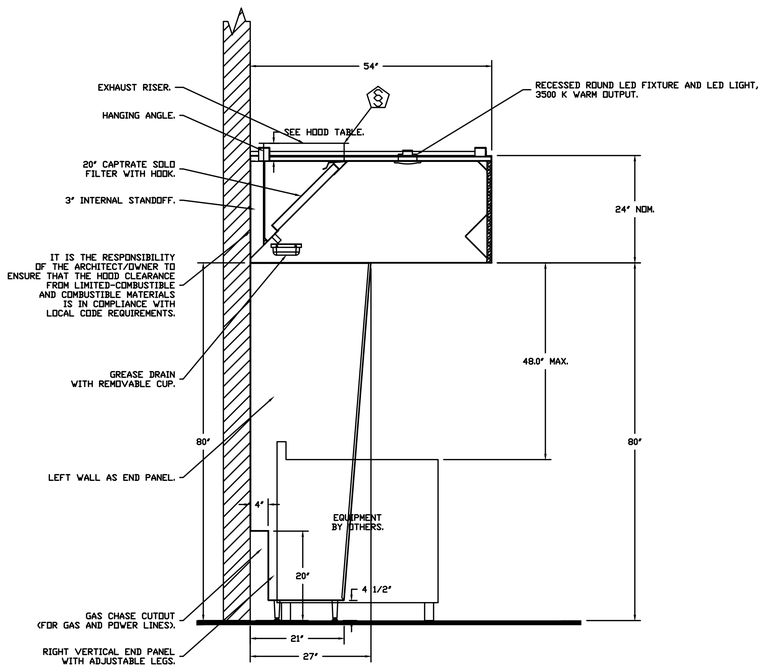
HOOD STYLE		DIM FROM REAR	DIM FROM FRONT (24" High Hood)	DIM FROM FRONT (30" High Hood)
Wall	Exhaust Only	4.166"	2.25"	2.25"
	With MUA		2.25"	2.25"
Back Shelf	Exhaust Only	4.166"	2.25"	2.25"
	With MUA		2.25"	2.25"
Condensate		2.25"	2.25"	

HANGING ANGLE LOCATIONS



PLAN VIEW – HOOD #1 (H-1)
15' 5.00" LONG 5424ND-2

NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.



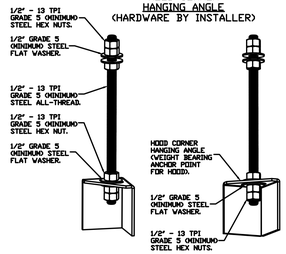
SECTION VIEW – MODEL 5424ND-2
HOOD – #1 (H-1)

NOTE
ALL WALLS THAT COME WITHIN 18" OF THE HOOD MUST BE METAL STUD AND SHEETROCK. IF WOOD STUDS FACTORY INSTALLED INSULATION REQUIRED. PLEASE ADVISE CAPTIVE AIRE PRIOR TO FABRICATION.

NOTE- Exhaust Collar Must be Factory Installed. If A Different Size Or Location Is Required, Please Note Change On Submittal.

Rear Discharge Is Available. Contact CaptiveAire For Possible Locations.

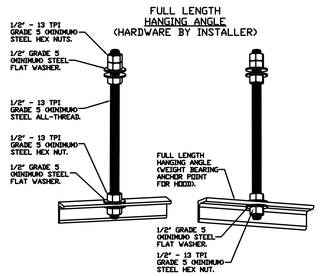
HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)



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)



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SPECIFICATION: CAPTRATE• GREASE-STOP• SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

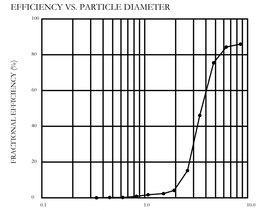
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

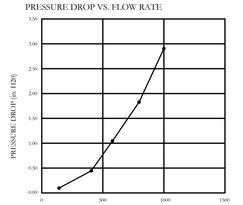
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH.
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

NSF · ETL · BUILT IN ACCORDANCE WITH NFPA No. 96

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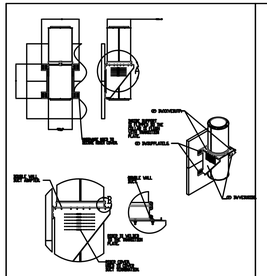
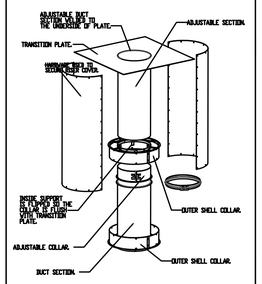
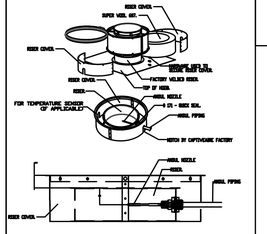


VERTICAL SUPPORT MAXIMUM SPACING (FT)	
DUCT DIAMETER	MAXIMUM SPACING (FT)
8"	10'
10"	10'
12"	10'
14"	10'
16"	10'
18"	10'
20"	10'
22"	10'
24"	10'

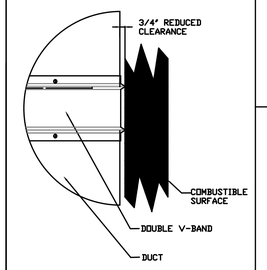
DUCT SUPPORT ASSEMBLY



TRANSITION PLATE DETAIL



OUTER DUCT BAND DETAIL



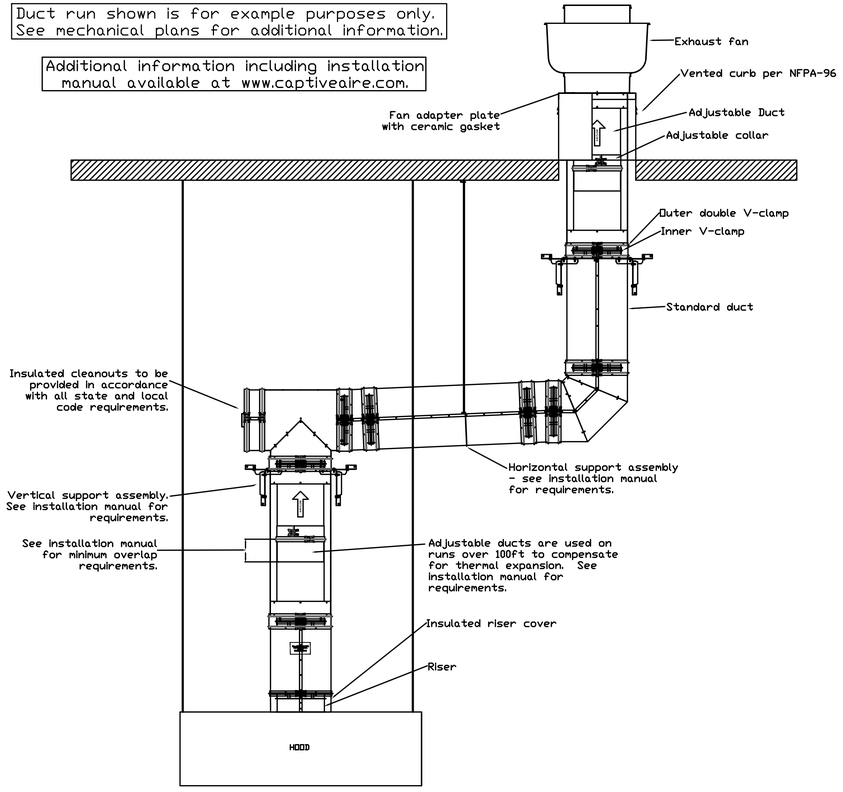
REDUCED CLEARANCE DETAIL

1. DUCT RUN TO BE FIELD VERIFIED, PARTS SUBJECT TO CHANGE
2. DUCT RUNS TO HAVE CLEANOUTS EVERY 10', AND EVERY CHANGE OF DIRECTION UNLESS SPECIFIED OTHERWISE.
3. VERTICAL HANGING SUPPORTS TO BE EVERY 10', HORIZONTAL SUPPORTS TO BE EVERY 7' FOR INNER DUCT DIA 8" TO 16" AND EVERY 5' FOR INNER DUCT DIA 18" TO 24".
4. ADJUSTABLE DUCT OVERLAP TO BE NO LESS THAN 6", UNLESS INNER DIAMETER IS 8" (4" OVERLAP) OR 10" (5" OVERLAP).
5. 3/4" CLEARANCE TO COMBUSTIBLES IS FROM OUTER SHELL. V-BAND IS LISTED TO BE AGAINST SURFACE.

DUCTWORK NOTES

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

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



DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

HORIZONTAL	
DUCT DIAMETER	SUPPORT SPACING (ft)
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'

VERTICAL			
TYPE	WALL SUPPORT (ft)	CURB SUPPORT (ft)	FLOOR SUPPORT (ft)
2R & 2R HT	20'	24'	24'
3R	10'	24'	24'
3Z	10'	24'	24'

SINGLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE INSTALLATION AND OPERATION MANUAL.
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

DUCT DIAMETER	HORIZONTAL SUPPORT (ft)	VERTICAL WALL SUPPORT (ft)	VERTICAL CURB SUPPORT (ft)
8"	10'	10'	24'
10"	10'	10'	24'
12"	10'	10'	24'
14"	10'	10'	24'
16"	10'	10'	24'
18"	10'	10'	24'
20"	10'	10'	24'
22"	10'	10'	24'
24"	10'	10'	24'

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

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

The Double Wall Ductwork Series has been certified by ITS. This certification mark indicates that the product has been tested to and has met the minimum requirements of a widely recognized (consensus) U.S. Product safety standard, that the manufacturing site has been audited, and that the applicant has agreed to a program of periodic factory follow-up inspections to verify continued performance.

Models DW-2R and DW-3R are ETL Listed under file number 1000082319SAT-006 EEV and comply with UL1978 and UL2221 Standards.

Model DW-3Z is ETL Listed under file number 1000082319SAT-006 EEV and complies with UL1978, UL2221 and CAN/ULC-S144 Standards.

DOUBLE WALL GREASE DUCT WRITTEN SPECIFICATION

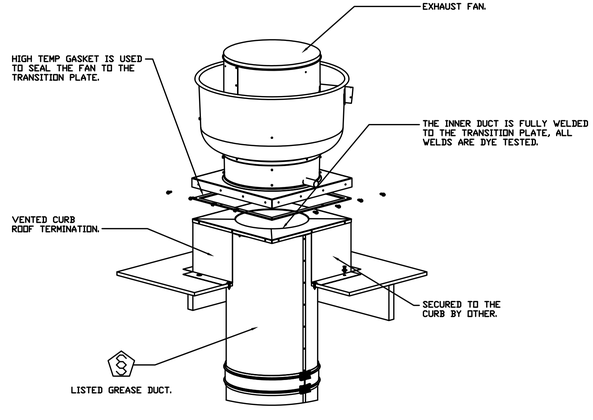
Furnish double wall, factory built grease duct for use with Type I kitchen hoods, which conforms to the requirements of NFPA-96. Products shall be ETL listed to UL-1978 and UL-2221 for venting air and grease vapors from commercial cooking operation. Models DW-2R, 3R and 3Z are used for grease duct applications 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-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.



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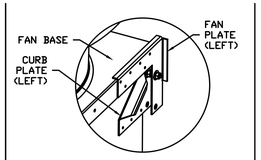
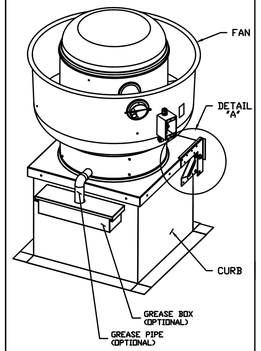
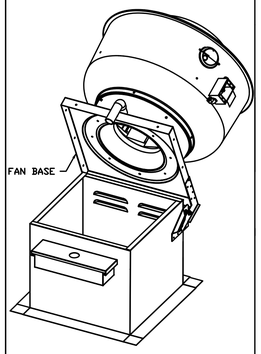


HINGE KIT DETAIL

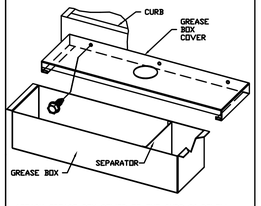


FAN IN CLOSED POSITION

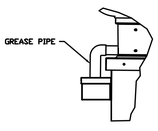


ATTENTION: INSTALLER SHOULD SUPPLY ENOUGH ELECTRICAL CORD TO LET FAN MAKE COMPLETE SWING.

FAN IN OPEN POSITION



ATTACH GREASE BOX COVER TO THE CURB 3" BELOW TOP EDGE OF CURB.
USING (3) LONG (3/4" LG.) SCREWS AS SHOWN.
INSTALL GREASE PIPE AS SHOWN.

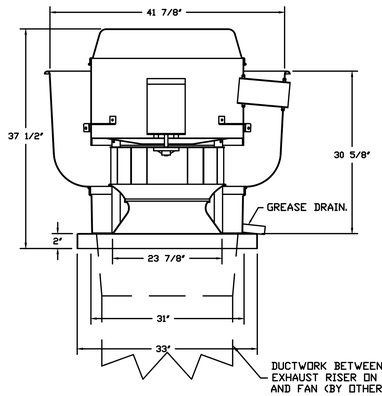


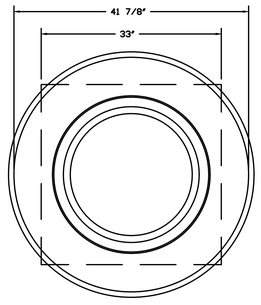
GREASE BOX INSTALLATION

1. A PRE-WIRED ELECTRICAL CONTROL PACKAGE SHALL BE PROVIDED TO OPERATE THE HOOD LIGHTS AND FANS.
2. PACKAGE SHALL CONSIST OF SWITCH PANEL WITH LIGHT SWITCH(ES) AND RED-LIGHTED FAN SWITCH(ES), STARTER/ OVERLOAD ASSEMBLY FOR EACH FAN(OPTIONAL), NUMBERED INPUT/OUTPUT TERMINAL STRIPS, AND A TERMINAL FOR DOUBLE-DUAL FIRE SYSTEM MICROSWITCH CONNECTION.
3. ONE RELAY IS WIRED TO MICROSWITCH (IN FIRE SYSTEM) FOR SUPPLY FAN SHUTDOWN AND OTHER RELAY FOR ADDITIONAL FIRE SYSTEM ACTIVATED DRY CONTACTS.
4. ELECTRICAL CONDUIT DROPS FROM THE FAN(S) SHALL BE CONNECTED TO THE NUMBERED TERMINAL STRIP. CONDUIT BETWEEN THE PRE-WIRE PACKAGE AND FAN(S) SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR.

ELECTRICAL PACKAGE NOTES

FAN #1 DU240HFA - EXHAUST FAN (EF-1)





TOP VIEW

FEATURES:

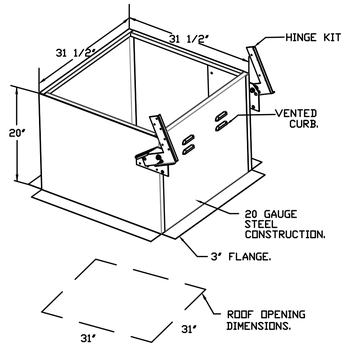
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT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

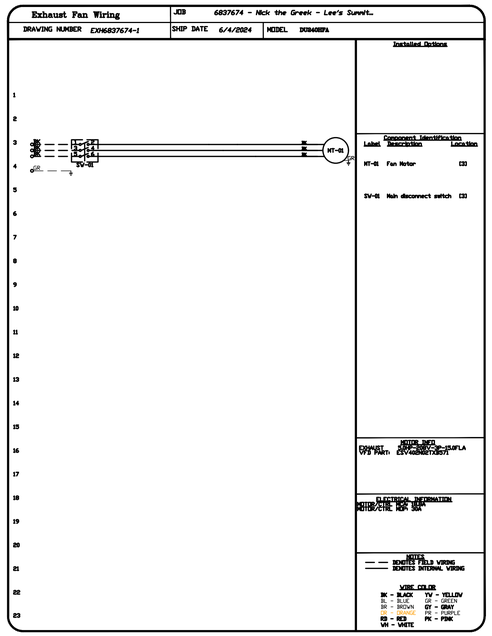
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

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

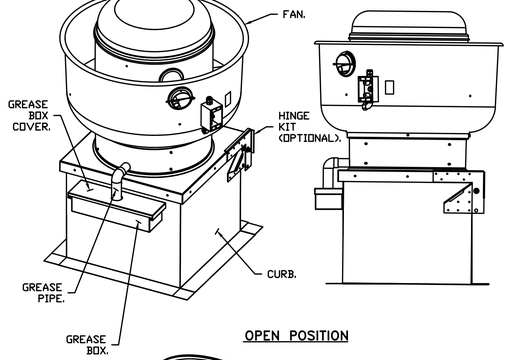
- GREASE BOX.
- FAN BASE CERAMIC SEAL - DU/DR240HFA - INSTALLED AT PLANT - FOR GREASE DUCTS.
- 2 YEAR PARTS WARRANTY.



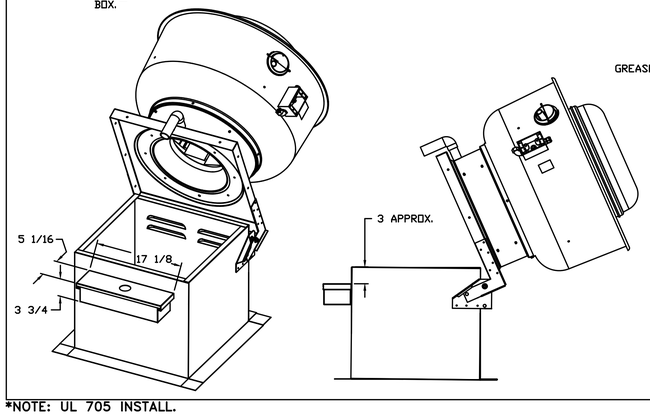


GREASE BOX INSTALLATION

CLOSED POSITION



OPEN POSITION



*NOTE: UL 705 INSTALL.

PARTS INCLUDED

GREASE BOX.
GREASE BOX COVER.
GREASE PIPE.

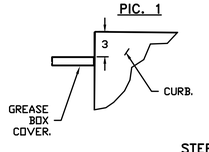
SHEET METAL SCREWS 3 - LONG (3/4" LG.).

GREASE BOX FIELD INSTALLATION

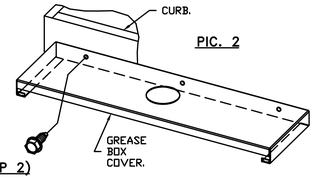
STEP 1)

ATTACH GREASE BOX COVER TO THE CURB, HOLD 3" DIMENSION AS SHOWN ON PIC. 1. SCREW GREASE BOX COVER TO CURB USING (3) LONG (3/4" LG.) SCREWS AS SHOWN ON PIC. 2.

PIC. 1



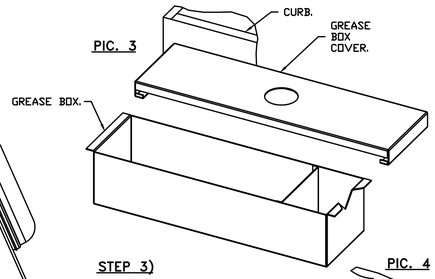
PIC. 2



STEP 2)

ATTACH GREASE BOX TO GREASE BOX COVER, SLIDE AND DROP. AS SHOWN ON PIC. 3.

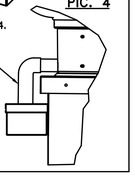
PIC. 3



STEP 3)

INSTALL GREASE PIPE AS SHOWN ON PIC. 4.

PIC. 4



GREASEBOX
REV.#2 08/19/02

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BRYAN LEINWEBER LICENSED 26653 KANSAS PROFESSIONAL ENGINEER 08/14/24

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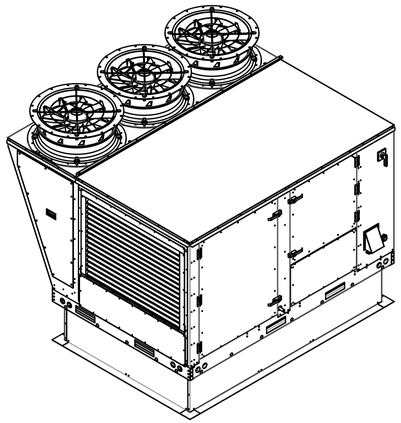
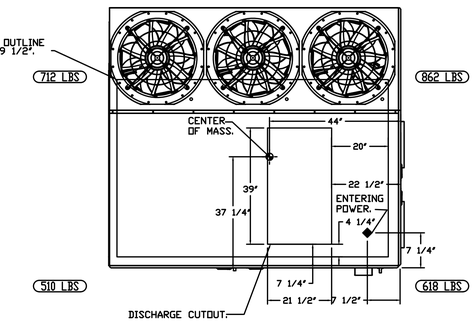
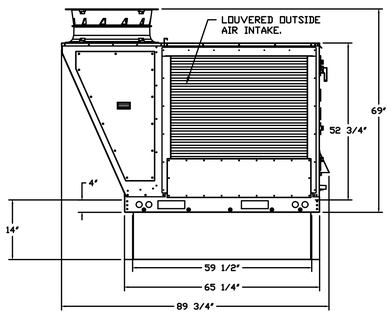
FAN #2 CAS-HVAC3-I.400-18-20T-DOAS - HEATER (MAU-1)

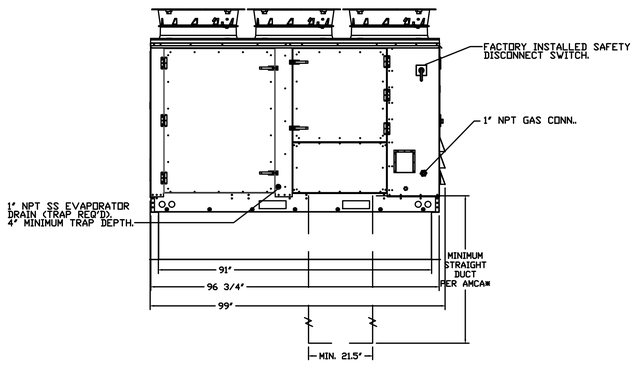
NOTES:
1. DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
2. ( ) DENOTES CORNER WEIGHT.
3. ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
4. CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

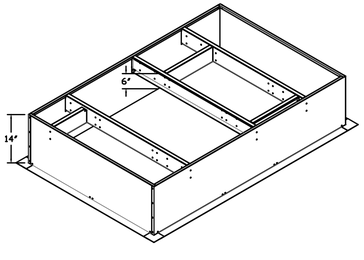
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 21.5" x 39".

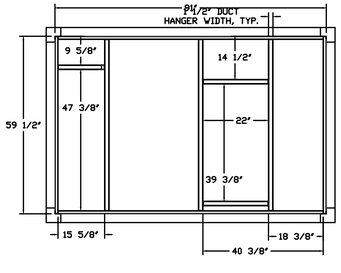


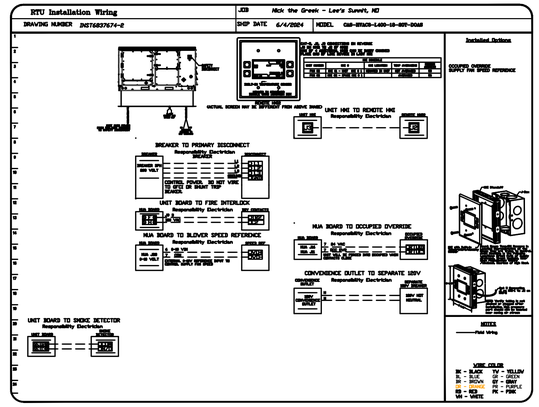


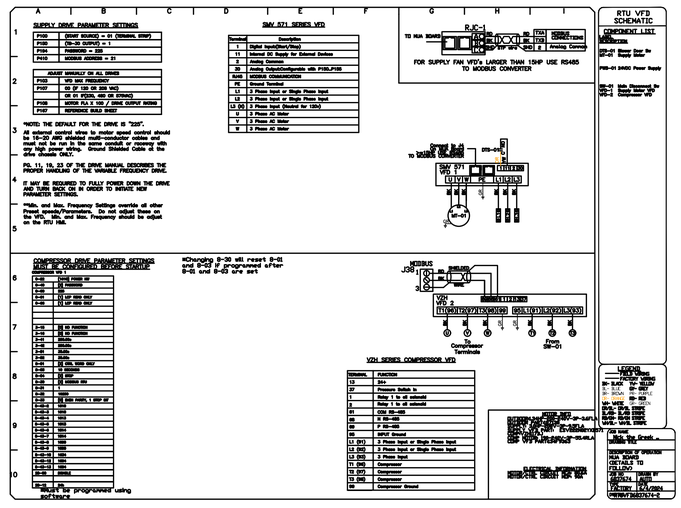


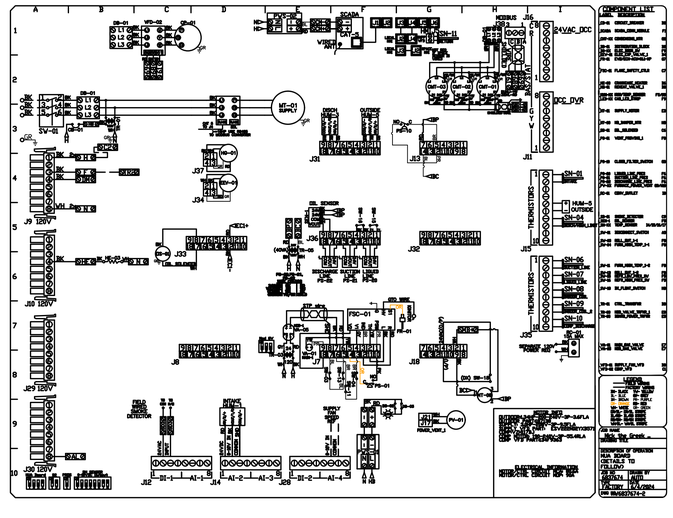












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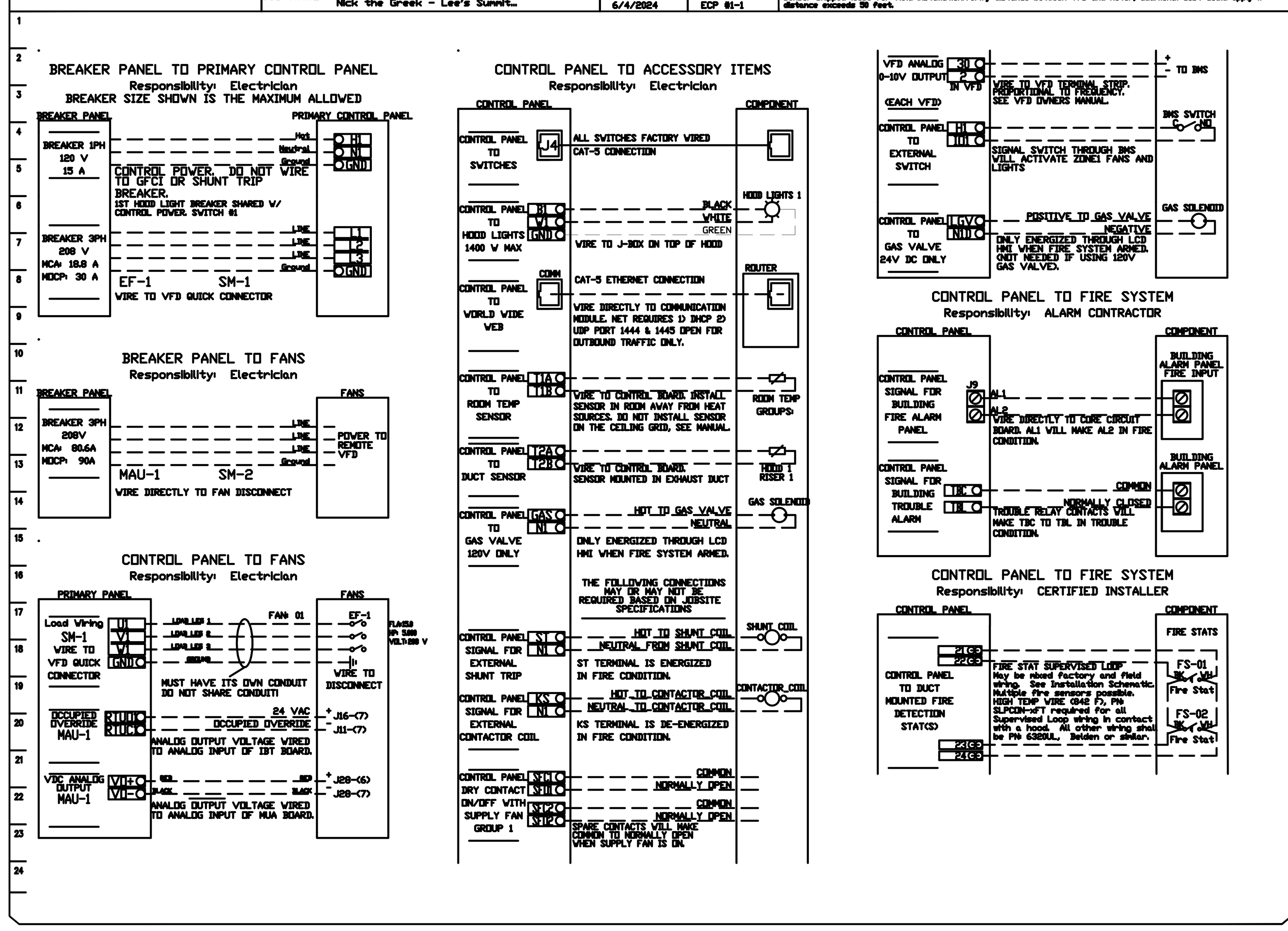
ELECTRICAL PACKAGE – JOB#6837674

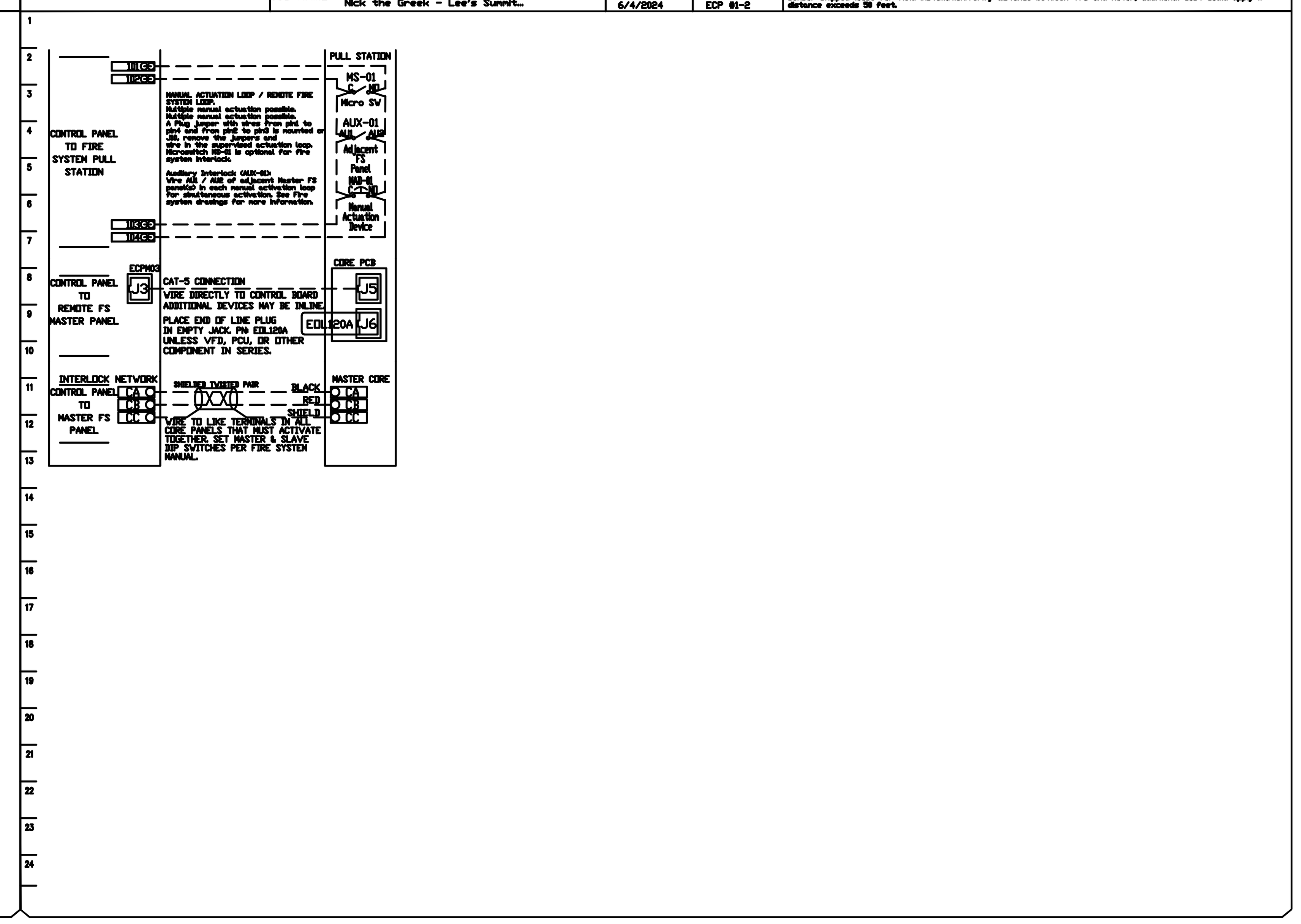
NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	φ	HP	VOLT	FLA
1	ECP-1	DCV-1111	WALL MOUNT IN SS BOX	SS WALL MOUNT BOX	1 LIGHT 1 FAN	SMART CONTROLS DCV	EF-1	EXHAUST	3	5.000	208	15.0
							MAU-1	SUPPLY	3	3.000	208	9.5

JOB NO 6837674 | MODEL NUMBER DCV-1111 | JOB NAME Nick the Greek - Lee's Summit... | DATE 6/4/2024 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-1

DESCRIPTION OF OPERATION: Demand Control Ventilation, w/ control for 1 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD. Room temperature sensor shipped loose for field installation.Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.



JOB NO 6837674 | MODEL NUMBER DCV-1111 | JOB NAME Nick the Greek - Lee's Summit... | DATE 6/4/2024 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-2



FIRE SYSTEM INFORMATION – JOB#6837674

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1	FS-1	TANK FS	4.0/4.0	40	36	FIRE CABINET RIGHT	RIGHT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	FS-1	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

JOB NO 6837674 | MODEL NUMBER DCV-1111 | JOB NAME Nick the Greek - Lee's Summit... | DATE 6/4/2024 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-3

DESCRIPTION OF OPERATION: Fire System #1 TANK FS - 4.0/4.0 (FS-1).

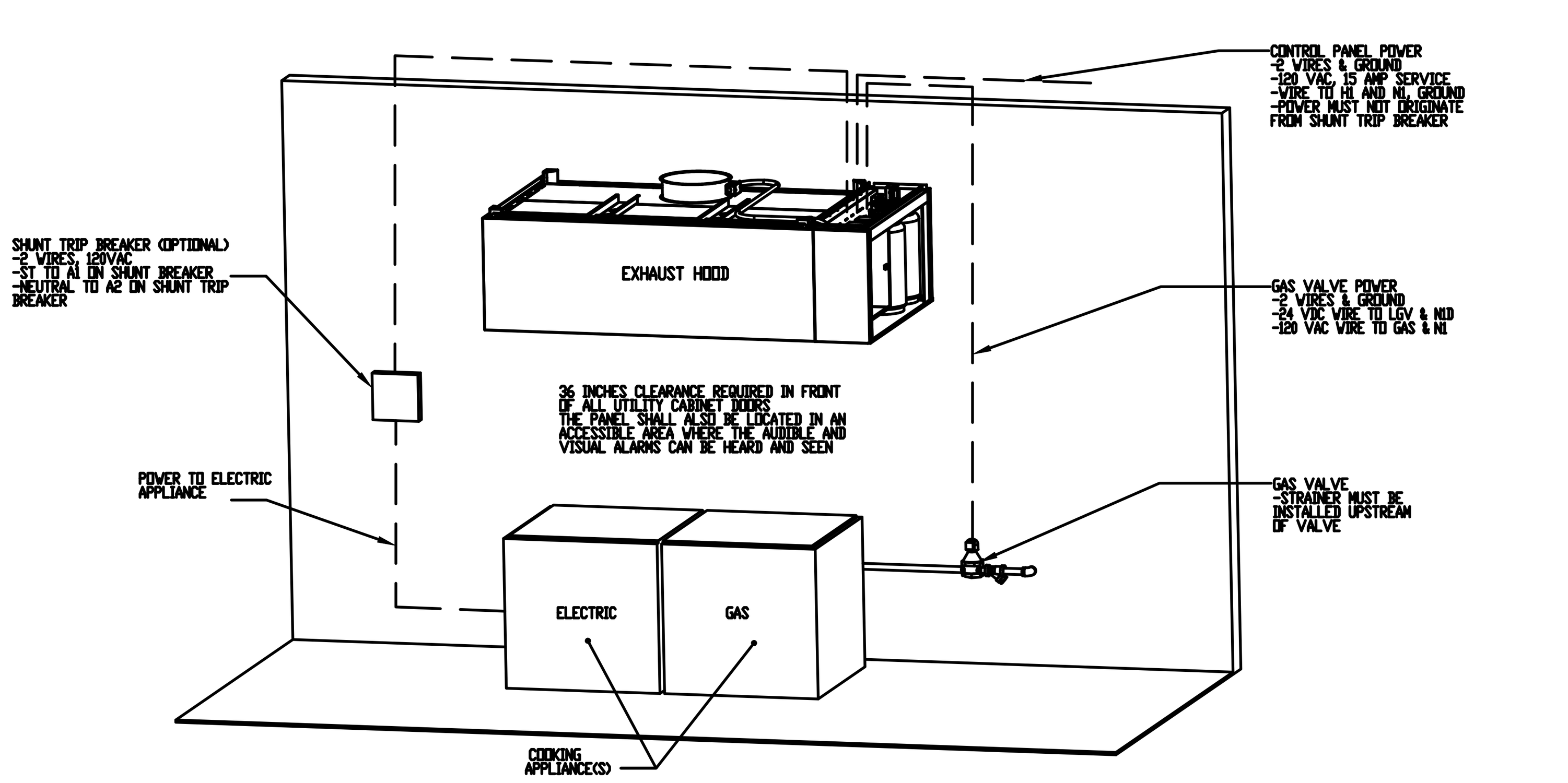
TANK PROTECTION ELECTRICAL DETAIL

02/10/2021 Rev. 2

FS-1: MASTER

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

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & N1	KTS & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AU1, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LGV & N1D (IF 24 VDC) GAS & N1 (IF 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.0 AMPS	IF 24 VDC - 2 WIRES & GROUND, N1D TO RED, LGV TO RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND GAS TO RED, N1 TO RED, AND GREEN TO GROUND



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

JOB NO 6837674 | MODEL NUMBER DCV-1111 | JOB NAME Nick the Greek - Lee's Summit... | DATE 6/4/2024 | SCHEMATIC TYPE INSTALL | DWG NO ECP #1-4

DESCRIPTION OF OPERATION: Fire System #1 TANK FS - 4.0/4.0 (FS-1).

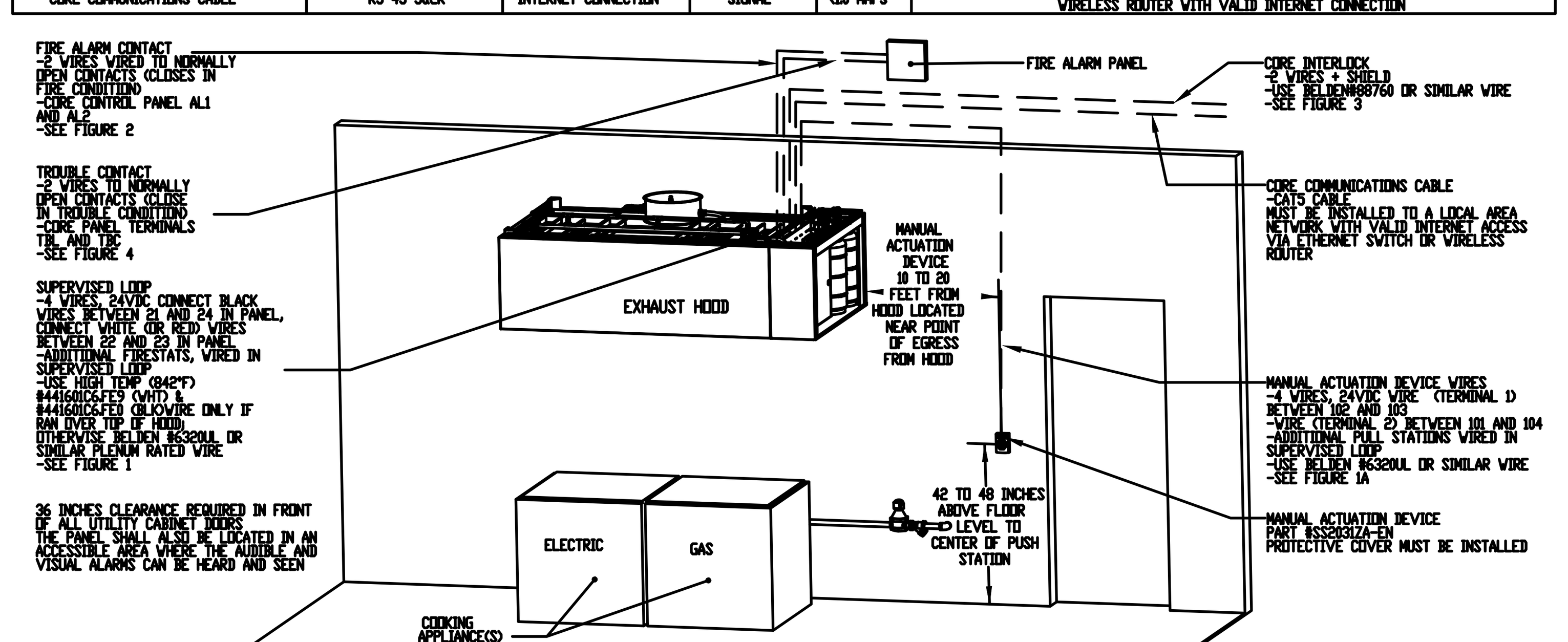
TANK PROTECTION LOW-VOLTAGE DETAIL

10/01/2023 Rev. 3

FS-1: MASTER

ALARM CONTRACTOR:
1. WIRE MANUAL ACTUATION DEVICE(S), REMOTE FIRESTAT(S), CORE INTERLOCK(S), FIRE SENSOR(S) AND FIRE ALARM CONTACTS
2. COMPLETE FINAL HOOKUP OF SYSTEM
3. VERIFY FINAL FIRE SYSTEM TEST

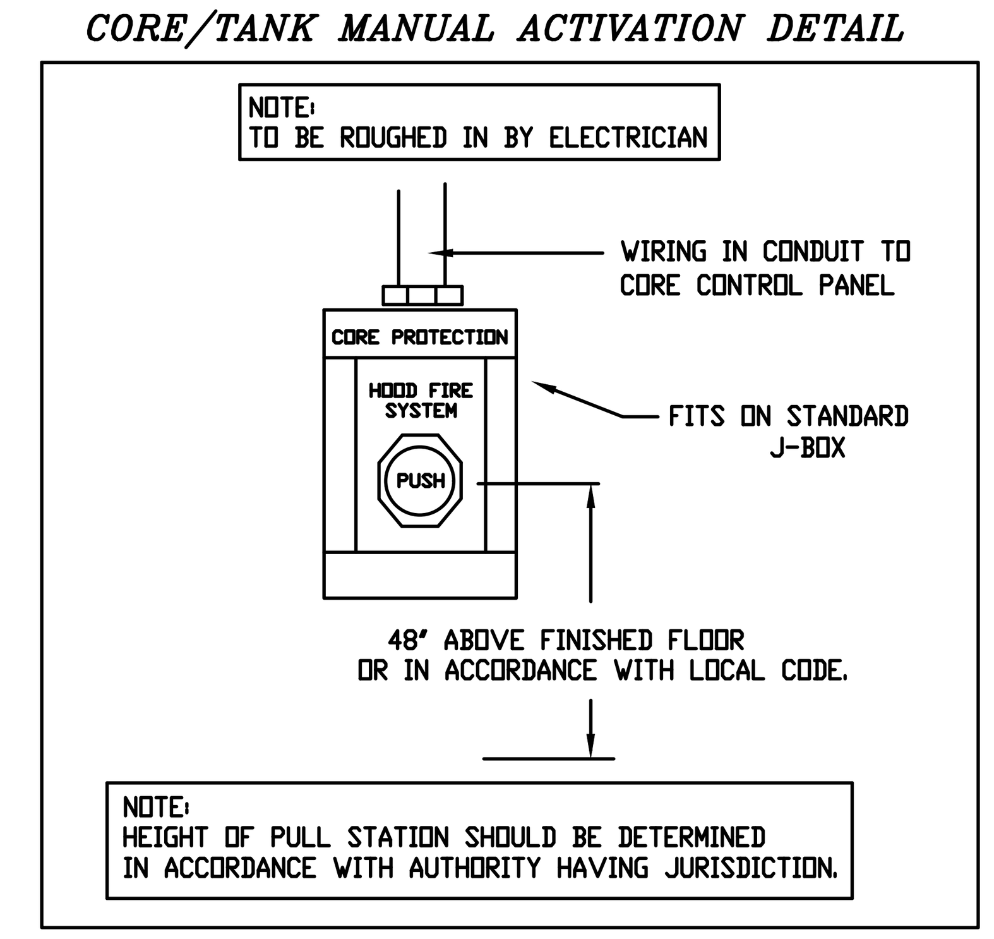
ALARM CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION ON DEVICE	VOLTAGE	AMPERAGE	COMMENTS
MANUAL ACTUATION DEVICE(S)	101 AND 104 102 AND 103	1 & 2	24 VDC	< 1.0 AMPS	WIRE MANUAL ACTUATION DEVICE TERMINAL 1 BETWEEN CORE PANEL TERMINALS 102 AND 103 WIRE MANUAL ACTUATION DEVICE TERMINAL 2 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 IF SURFACE MOUNTED, USE COVER EXTENSION STI-6531B
REMOTE FIRESTAT SENSOR(S)	21 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 21 AND 24 HIGH TEMP (842°F) #441601C6.FE9 (WHT) & #441601C6.FE0 (BLK)WIRE OR SIMILAR ONLY IF RAN OF HOOD; OTHERWISE BELDEN #6320UL OR SIMILAR PLENUM RATED WIRE; SEE FIGURE 1
FIRE ALARM CONTACT	AL1, AL2	VARIES	50V MAX (AC/DC)	UP TO 1 AMP	FIRE ALARM RELAY CONTACTS FOR BUILDING FIRE ALARM LOCATED IN THE 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# 88760 OR SIMILAR WIRE
TROUBLE CONTACT	TBC, TBL, TOK	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

CORE/TANK MANUAL ACTIVATION DETAIL



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BRIAN LEINWETTER LICENSED 26653 KANSAS PROFESSIONAL ENGINEER 06/14/24

CD
JUNE 14, 2024

Revisions

RESTAURANT TENANT INFILL
NICK THE GREEK
STREETS OF WEST PRYOR
XXXX PRYOR
LEE'S SUMMIT, MO

pkmr ENGINEERS
PEARSON KENT MCKINLEY RAAF ENGINEERS LLC
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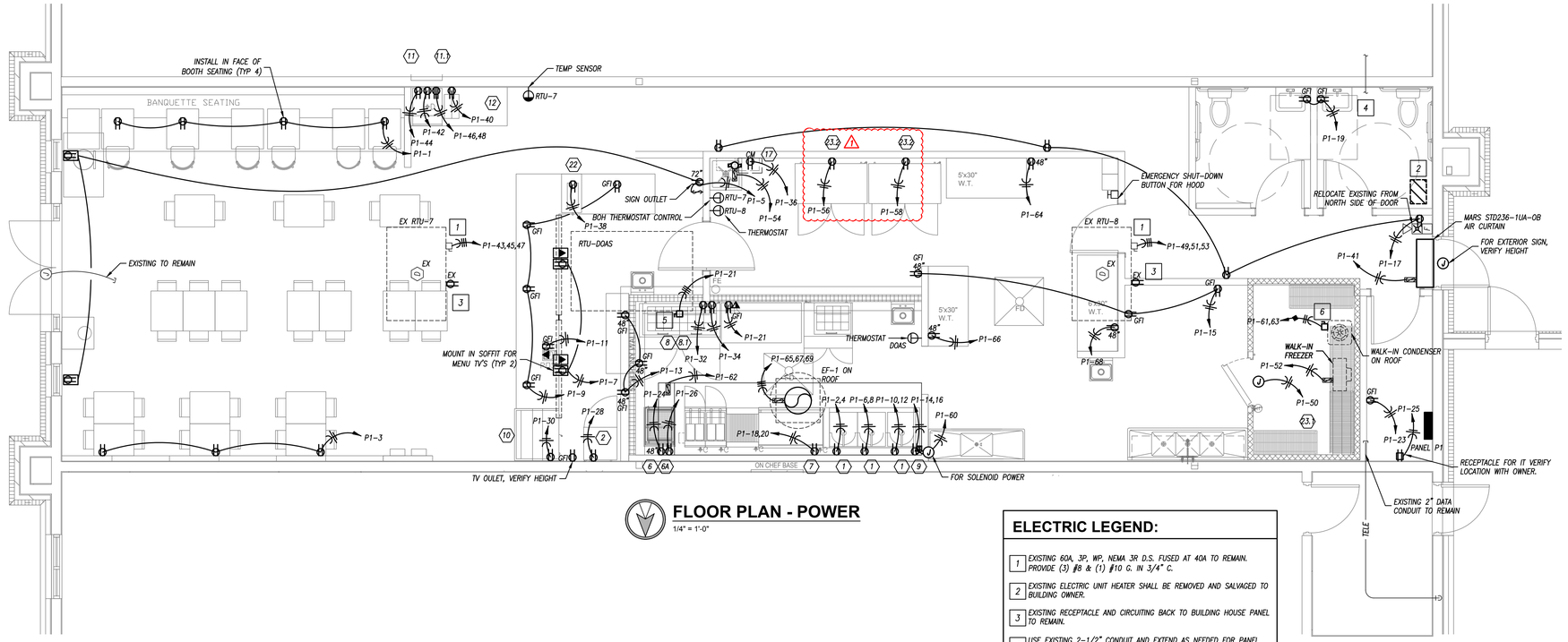
24-211

sheet
M1.7
HVAC SCHEDULES & DETAIL

GENERAL ELECTRICAL NOTES:

1. REFER TO KITCHEN EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION ON MEP CONNECTIONS TO EQUIPMENT.

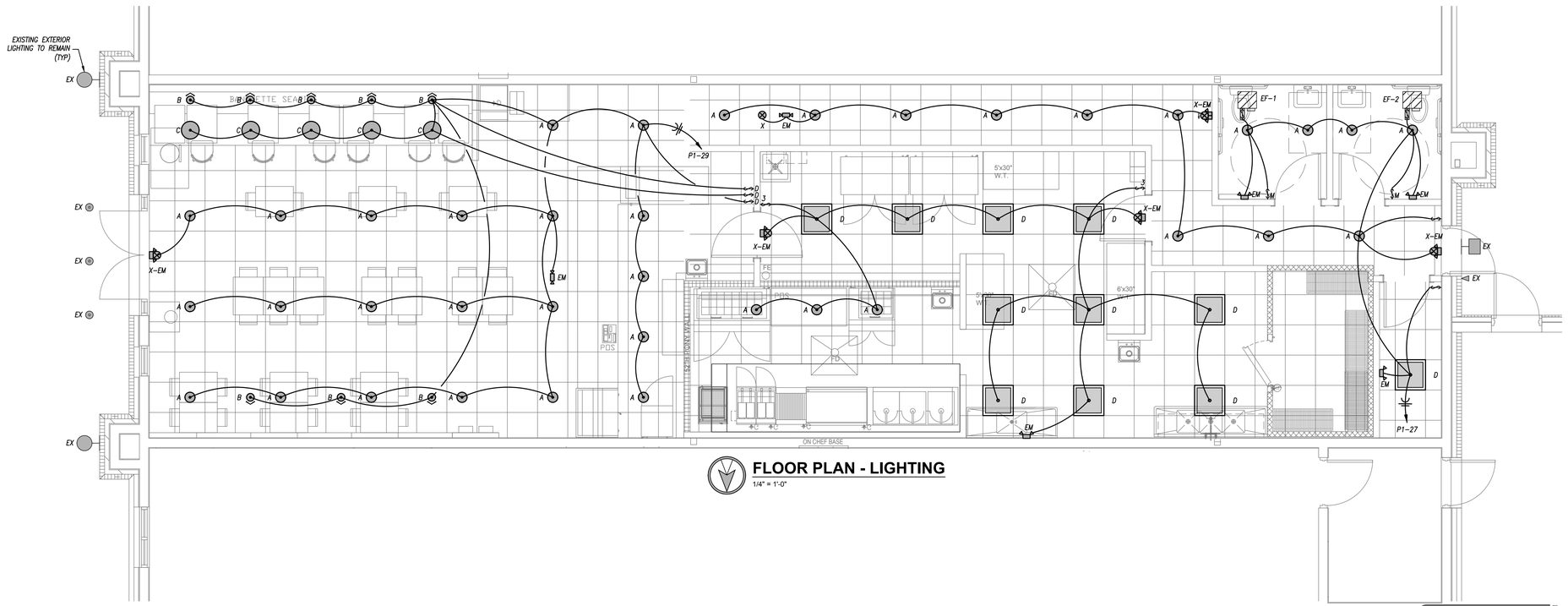


FLOOR PLAN - POWER

1/4" = 1'-0"

ELECTRIC LEGEND:

1. EXISTING 60A, 3P, WP, NEMA 3R D.S. FUSED AT 40A TO REMAIN. PROVIDE (3) #8 & (1) #10 G. IN 3/4" C.
2. EXISTING ELECTRIC UNIT HEATER SHALL BE REMOVED AND SALVAGED TO BUILDING OWNER.
3. EXISTING RECEPTACLE AND CIRCUITING BACK TO BUILDING HOUSE PANEL TO REMAIN.
4. USE EXISTING 2-1/2" CONDUIT AND EXTEND AS NEEDED FOR PANEL P1. REFER TO ELECTRICAL RISER DIAGRAM.
5. 100A, 3P, WP, NEMA 3R D.S. FUSED AT 90A. (3) #2 & (1) # 6 G. IN 1-1/4" C.
6. 30A, 208V, 2P, NEMA 3R, HEAVY DUTY, NON-FUSED D.S.



FLOOR PLAN - LIGHTING

1/4" = 1'-0"

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RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
10/27/2024

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BRYAN LEINWEBER LICENSED 26653 KANSAS PROFESSIONAL ENGINEER 08/14/24

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JUNE 14, 2024

Revisions
1 JUNE 28, 2024

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E1.0
ELECTRICAL PLANS

RELEASED FOR CONSTRUCTION
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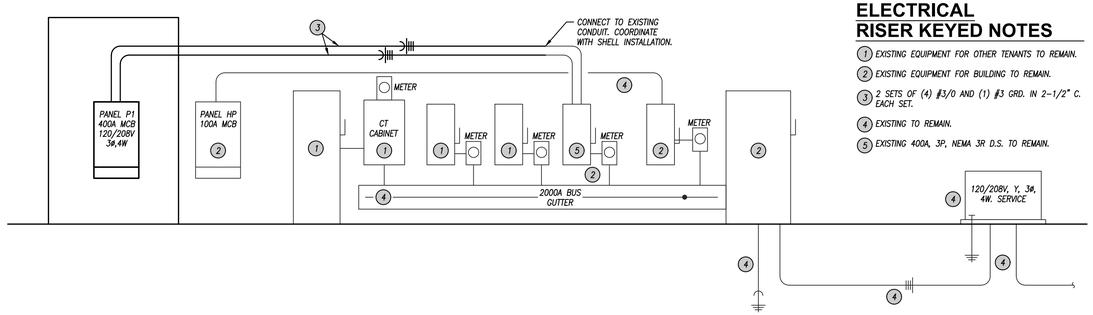
08/27/2024

LIGHT FIXTURE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL NUMBER	MOUNTING	FINISH	WATTS/LUMENS	CRI/CCT	NOTES
A	WILLIAMS	6DR-TL-L20/840-DIM-UNV-LM-OF-CS-R	RECESSED	WHITE	20W/1800 LUMENS	80/4000K	1
B	LF ILLUMINATION	8121C-19C-8040-M-MW	RECESSED	WHITE	19W/2100 LUMENS	80/4000K	1
C	BREAKWATER BAY	MADEIRA 1-LIGHT SINGLE DOME - BKWT3435	PENDANT	CHROME	60W MAX	2700K	1
D	WILLIAMS	LPT-24S-AF12125-DIM-UNV	RECESSED	WHITE	50W/4,300 LUMENS	82/3500K	1
EM	DUAL LITE	LZ15-03L	SURFACE	WHITE	15W MAX	--	2,3
X	DUAL LITE	LXURWE	SURFACE	WHITE	15W MAX	--	2,3
X-EM	DUAL LITE	HCXURW	SURFACE	WHITE	15W MAX	--	2,3

NOTES LEGEND

1 - PROVIDE DIMMABLE DRIVER FOR 0-10V DOWN TO 10%
2 - PROVIDE ELECTRONIC BALLAST
3 - PROVIDE EMERGENCY BATTERY (MINIMUM OF 1000 LUMENS FOR 90 MINUTES)



ELECTRICAL RISER KEYED NOTES

1. EXISTING EQUIPMENT FOR OTHER TENANTS TO REMAIN.
2. EXISTING EQUIPMENT FOR BUILDING TO REMAIN.
3. 2 SETS OF (4) #3/0 AND (1) #3 GRD. IN 2-1/2" C. EACH SET.
4. EXISTING TO REMAIN.
5. EXISTING 400A, 3P, NEMA 3R D.S. TO REMAIN.

ELECTRICAL RISER DIAGRAM

NO SCALE

SINGLE-SECTION PANELBOARD SCHEDULE

PANEL DESIGNATION: P1

MOUNTING: -
LOCATION: -

MAIN LUG AMPS: 400 — SCCR RATING (AIC): 22,000
MAIN BREAKER: 400
VOLTAGE: 208/120
PHASE/WIRE: 3ø, 4W

DESCRIPTION	PHASE A	PHASE B	PHASE C	C/B TRIP	C/B POLE	CIRCUIT #		C/B POLE	C/B TRIP	PHASE A	PHASE B	PHASE C	DESCRIPTION
REC: BANQUETTE SEATING	720			20	1	1	2	1	20	240			BROILER*
REC: S DINING		540		20	1	3	4	-	-		-		SHUNT TRIP
REC: OPEN SIGNS			540	20	1	5	6	1	20			240	BROILER*
REC: MENU SIGNS	360			20	1	7	8	-	-	-			SHUNT TRIP
REC: SALES COUNTER		720		20	1	9	10	1	20		240		BROILER*
REC: POS			180	20	1	11	12	-	-			-	SHUNT TRIP
REC: CONVENIENCE	540			20	1	13	14	1	20	950			WARMING DRAWER*
REC: CONVENIENCE		540		20	1	15	16	-	-		-		SHUNT TRIP
REC: BOH			720	20	1	17	18	1	20			1188	CHEF BASE REFRIGERATOR*
REC: RESTROOMS	360			20	1	19	20	-	-	-			SHUNT TRIP
REC: POS		180		20	1	21	22	1	20		-		SPARE
REC: MECH			180	20	1	23	24	1	20			264	REFRIGERATED WORK TOP*
REC: IT/TELEDATA	360			20	1	25	26	1	20	1200			ELECTRIC FOOD WARMER*
LIGHTING: KITCHEN		870		20	1	27	28	1	20		432		PEPSI COOLER*
LIGHTING: DINING			812	20	1	29	30	1	20			1320	REFRIGERATED DISPLAY CASE*
SPARE	-			20	1	31	32	1	20	936			PREP FRIDGE*
SPARE		-		20	1	33	34	1	20		540		PREP FRIDGE*
SPARE			-	20	1	35	36	1	20			500	TANKLESS WATER HEATER*
SPARE	-			20	1	37	38	1	20	1680			SOFT SERVE MACHINE*
SPARE		-		20	1	39	40	1	20		432		BUBBLER MINI TWIN*
AIR CURTAIN			612	15	1	41	42	1	20			300	ICE BEV DISPENSER*
RTU-7	3384			40	3	43	44	1	20	288			ICE BEV DISPENSER*
-		3384		-	-	45	46	2	20		1144		ICE MAKER*
-			3384	-	-	47	48	-	-			1144	-
RTU-8	3384			40	3	49	50	1	20	1800			WALK-IN COOLER
-		3384		-	-	51	52	1	20		1800		WALK-IN COOLER EVAPORATOR
-			3384	-	-	53	54	1	20			500	RCP
RTU-DOAS	9672			90	3	55	56	1	20	660			FREEZER
-		9672		-	-	57	58	1	20		660		FREEZER
-			9672	-	-	59	60	1	15			10	SOLENOID VALVE
WALK-IN CONDENSER	2496			30	2	61	62	1	20	500			KITCHEN HOOD
-		2496		-	-	63	64	1	20		1200		REC: FUTURE FREEZER*
KEF-1			1800	30	3	65	66	1	20			1200	REC: FUTURE FREEZER*
-	1800			-	-	67	68	1	20	1200			REC: FUTURE FREEZER*
-		1800		-	-	69	70	1	20		-		SPARE
SPARE			-	20	1	71	72	1	20			-	SPARE
TOTALS	23076	23586	21284							9454	6448	6666	TOTALS

PANELBOARD SIZING LOAD

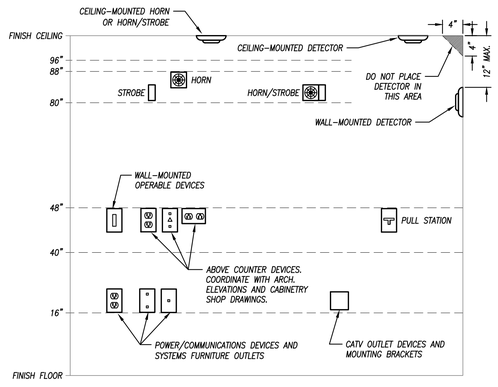
LOAD DESCRIPTION	CONNECTED	DEMAND	CODE MIN. (VA)
LIGHTS	1,682	1.25	2,103
RECEPTACLES	9,540	10KVA + 50% REST	9,540
MOTORS	6,012	-	7,362
AIR CONDITIONING	49,320	1.00	49,320
SPACE HEATING	0	0.00	0
HEAT PUMP	0	1.00	0
CONTINUOUS	5,430	1.25	6,788
NON-CONTINUOUS	0	1.00	0
MISC. LOADS 1	0	1.00	0
		SIZING LOAD:	87,157
		SIZING LOAD (AMPS):	242

CONNECTED PHASE LOADS

PHASE	VA	AMPS
A	32,530	270.9
B	30,034	250.1
C	27,950	232.7
TOTALS	90,514	251.2

REMARKS:

1. EATON POW-R-LINE 1X OR EQUAL.
2. * MARKS A GFI BREAKER.



GENERAL NOTES:

1. MOUNTING HEIGHTS SHOWN IN THIS DETAIL ARE TYPICAL UNLESS OTHERWISE NOTED ON THE PLANS.
2. SEE ARCHITECTURAL ELEVATIONS FOR SPECIAL CONDITIONS. NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS.
3. ALL INSTALLATIONS SHALL COMPLY WITH ADA.

VISUAL FIRE ALARM NOTIFICATION DEVICES (STROBE)
LOCATE DEVICE SO THE BOTTOM OF THE DEVICE IS BETWEEN 80" AND 96" A.F.F. (NFPA) OR 6" BELOW CEILING, WHICHEVER IS LOWER (ADA 2010).

AUDIBLE FIRE ALARM NOTIFICATION DEVICES (HORN)
LOCATE DEVICE SO THAT THE TOP OF UNIT IS NOT MORE THAN 90" A.F.F. AND NOT LESS THAN 6" BELOW CEILING (NFPA)

FIRE ALARM ACTIVATION DEVICES (PULL STATION)
LOCATE FRONT-APPROACH DEVICES SO THAT THE HIGHEST OPERABLE PORTION OF THE DEVICE IS NOT MORE THAN 48" A.F.F. (ADA 2010) AND NOT LESS THAN 42" A.F.F. (NFPA).

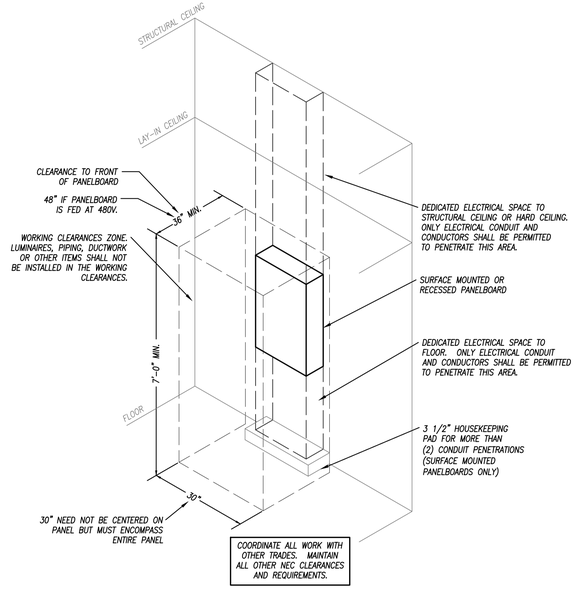
POWER/COMMUNICATION DEVICES:
OUTLETS SHALL BE LOCATED AT 16" A.F.F. TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 2" ABOVE THE BACKSPLASH OF THE COUNTER TO THE BOTTOM OF THE DEVICES. VERIFY WITH ARCHITECTURAL DETAILS.

WALL-MOUNTED OPERABLE DEVICES:
OPERABLE DEVICES SHALL BE LOCATED AT 48" A.F.F. TO THE TOP OF THE OPERABLE PORTION OF THE DEVICE.

WALL-MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
- LIGHT SWITCHES, DIMMERS, CONTROLS, ETC.
- PUSH BUTTONS
- NURSE/PATIENT CALL DEVICES (INLUDING THOSE FOR STAFF USE)
- OTHER CONTROL OR "CALL" DEVICES

MOUNTING HEIGHTS FOR WALL-MOUNTED DEVICES

NOT TO SCALE



TYPICAL PANELBOARD INSTALLATION DETAIL

NOT TO SCALE

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