

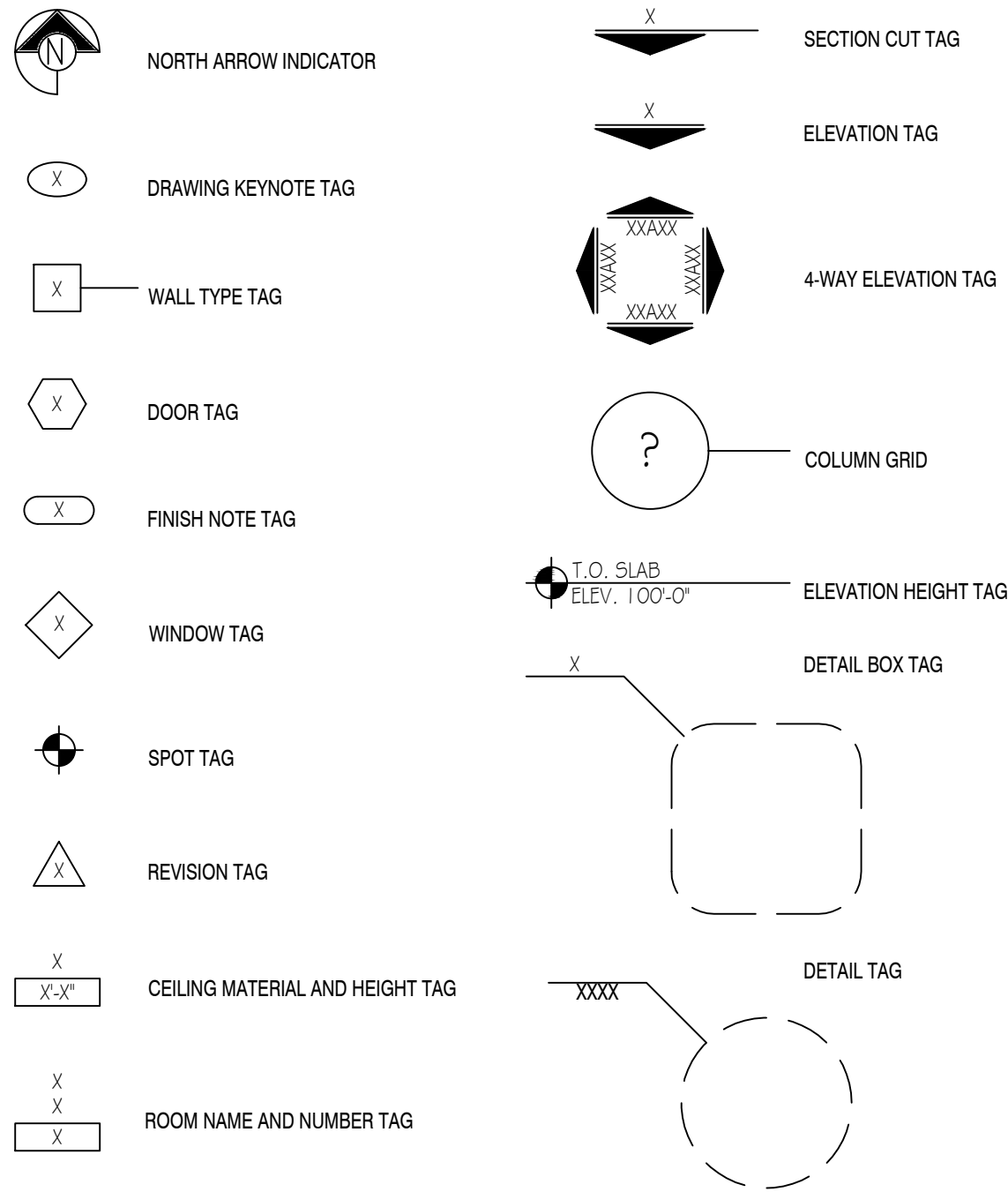
NICK THE GREEK TENANT INFILL

STREETS OF WEST PRYOR LOT 13
TENANT SPACE "C" 1020 NW PRYOR RD
LEE'S SUMMIT, MO

GENERAL NOTES

- ALL CONSTRUCTION AND INSTALLATIONS SHALL MEET THE REQUIREMENTS OF APPLICABLE CODES AND ORDINANCES
- CONTRACTOR AND SUBCONTRACTORS TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO FABRICATIONS AND INSTALLATIONS
- ALL MATERIAL SHALL BE NEW AND UNUSED UNLESS INDICATED OTHERWISE; CONSTRUCTION, INSTALLATIONS, FIT, AND FINISHES SHALL EXHIBIT FIRST CLASS WORKMANSHIP
- DRAWINGS INDICATE DESIGN INTENT ONLY; OPERATIONS, METHODS, AND INSTALLATIONS SOLE RESPONSIBILITY OF GENERAL AND SUB CONTRACTORS
- UNLESS NOTED OR INDICATED OTHERWISE DIMENSIONS ARE TO FACE OF FINISHED WALLS AND OTHER VERTICAL ELEMENTS
- 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
- DO NOT SCALE DRAWINGS - PERFORM LAYOUTS FROM DIMENSIONS ONLY - NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES DISCOVERED
- UNLESS INDICATED OTHERWISE, NEW WALL CONSTRUCTION NOT SPECIFICALLY DIMENSIONED ALIGNS WITH EXISTING CONSTRUCTION
- 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
- SUBCONTRACTORS SHALL COORDINATE THEIR WORK WITH THAT OF OTHER TRADES
- SUBCONTRACTORS SHALL REMOVE DAILY FROM PREMISES TRASH, WASTE, AND DEBRIS GENERATED FROM THEIR WORK
- ALL WORK SHALL CONFORM WITH LATEST PUBLISHED SAFETY STANDARDS AS ESTABLISHED BY OSHA AND ANSI
- PROCEDURE WITH WORK CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS . SUBSTRATES
- PREMISES SHALL BE LEFT FULLY CLEANED AND READY FOR OWNER ACCEPTANCE AT COMPLETION OF WORK
- ALL MATERIALS AND ASSEMBLIES TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER REQUIREMENTS AND INDUSTRY STANDARDS UNLESS SPECIFICALLY INDICATED OTHERWISE
- 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.
- CONTRACTOR AND HIS SUBCONTRACTORS AND AGENTS SHALL HOLD ALL APPLICABLE AND REQUIRED LICENSES FOR THE JURISDICTION WHERE THE WORK WILL BE PERFORMED.
- TO ENSURE COORDINATION BETWEEN DISCIPLINES, CONTRACTOR SHALL SUPPLY EACH SUBCONTRACTOR OR AGENT WITH A FULL SET OF CONSTRUCTION DOCUMENTS FOR THEIR USE.
- 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 MANUFACTURERS REQUIREMENTS.
- 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 ERRECTED, MAINTAINED AND REMOVED PER THE DEVELOPMENT CRITERIA BY THE CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FITTING NECESSARY TO ACHIEVE THE INTENT OF THE CONSTRUCTION DOCUMENTS
- ALL AREAS OF EXISTING LANDSCAPING DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION.
- 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.
- CONTRACTOR SHALL COORDINATE THE DELIVERY AND STORAGE OF EQUIPMENT SUPPLIER AND TAKE MEASURES TO ENSURE THE PROTECTION OF EQUIPMENT FROM DAMAGE DURING THE CONSTRUCTION PHASE PRIOR TO AND AFTER EQUIPMENT INSTALLATION.
- 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.
- PROVIDE FIRE EXTINGUISHERS PER APPLICABLE CODES. VERIFY FINAL LOCATION WITH A.H.J..
- 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.
- ALL JOINTS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED IN ACCORDANCE WITH THE BUILDING CODE AND ENERGY CODE.
- ALL WOOD IN CONTACT WITH CONCRETE MASONRY SHALL BE PRESSURE TREATED, MOISTURE RESISTANT WOOD.
- CONTRACTOR SHALL PROVIDE WOOD BLOCKING, BRACING AND NAILERS AS REQD FOR MILLWORK, EQUIPMENT, SHELVING, ETC. COORDINATE WITH TENANT.
- ALL MILLWORK, CONTRACTOR TO COORDINATE PLUMBING AND ELECTRICAL W/ MILLWORK SUPPLIER
- 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 MANUFACTURERS INSTRUCTIONS.
- PROVIDE OCCUPANCY SIGN IN A CONSPICUOUS LOCATION IN ACCORDANCE WITH STATE & LOCAL CODES.

DRAWING SYMBOLS



ABBREVIATIONS

AFF	Above Finished	FE	Fire Extinguisher	PL	Plate
ACT	Acoustical	FEC	Fire Extinguisher & Cabinet	PLAM	Plastic Laminate
ADJ	Adjustable	FPE	Furniture, Fixtures & Equipment	PLWVD	Plywood
ALUM	Aluminum	FIN	Finish	PLUMB	Plumbing
AMB	Air-moisture barrier	FLUOR	Fluorescent	PNL	Panel
ANC	Anchor	FLR	Floor	PR	Preparation
ANOD	Anodized	FRP	Fiberglass Reinforced Plastic	PREFIN	Prefinished
ARCH	Architectural	FRT	Fire Retardant Treated	PTD	Painted
ASSEMB	Assembly	FS	Floor Sink	QT	Quantity
BD	Board	FSE	Food Service Equipment	RA	Return Air
BFG	Below Finished Grade	FT	Feet	RAD	Radius
BFF	Below Finished Floor	FV	Field Ventry	REF	Reference
BLDG	Building	GA	Gage	RECPT	Receipt
BLKG	Blocking	GALV	Galvanized	REFL	Reflection
BM	Beam	GC	General Contractor	REIN	Reinforcement
BOT	Bottom	GL	Glass	RELOC	Relocate
BRG	Bearing	GYP BD	Gypsum Board	REQD	Required
BS	Both Sides	HC	Hollow Core	REV	Revision, Reversed
BTWN	Between	HM	Hollow Metal	RO	Rough Opening
CAB	Cabinet	HT	Height	RTU	Roof Top Unit
CJ	Control Joint	HDWD	Hardwood	SC	Solid Core
CL	Center Line	HR	Hour	SF	Square Foot
CLG	Ceiling	HVAC	Heating, Ventilation and Air Conditioning	SH	Sheet
CLO	Closet	IN	Inch	SHTH	Sheathing
CLR	Clear	INSUL	Insulation, Insulate	SS	Stainless Steel
CMU	Concrete Masonry Unit	INT	Interior	SCHED	Schedule
COL	Column	JST	Joint	SIM	Similar
CONC	Concrete	LAM	Laminated	SM	Sheet Metal
CONT	Continuous	LAV	Lavatory	SPECED	Specified
CONST	Construction, Construct	LH	Long Leg Horizontal	STD	Standard
CT	Ceramic Tile	LV	Long Leg Vertical	STL	Steel
DBL	Double	MANUF	Manufacturer	STRUCT	Structural
DEM	Demolition	MAX	Maximum	SUSP	Suspended
DIA	Diameter	MECH	Mechanical	TBD	To be determined
DN	Down	MEP	Mechanical, Electrical, and Plumbing	TDMP	Tempered
DR	Door	MILL	Millwork	T&B	Top and Bottom
DS	Downspout	MIN	Minimum	TYP	Typical
DTL	Detail	MISC	Miscellaneous	VCT	Vinyl Composition Tile
DWG	Drawing	MLD	Molding	VERT	Vertical
EA	Each	MO	Masonry Opening	VWC	Vinyl Wall Covering
EIFS	Exterior Insulation and Finish System	MTD	Mounted	UNO	Unless Noted Otherwise
EF	Exhaust Fan	MTL	Metal	W	With
EJ	Expansion Joint	MUL	Mullion	W/O	Without
EL	Elevation	NIC	Not In Contract	WC	Water Closet
ELEC	Electrical	NDM	Nominal	WO	Wood
ELEV	Elevator	NTS	Not To Scale	WH	Water Heater
EQ	Equipment	OC	On Center	WOW	Window
EQUIP	Equipment	OD	Outside Diameter	WP	Waterproofing or Waterproof
EW	Each Way	OFCI	Owner Furnished, Contractor Installed	WSCT	Wainscot
EWC	Electric Water Cooler	OPNG	Opening	WT	Weight
EXIST	Existing	OPP	Opposite		
EXP	Expansion	OPT	Optional		
EXT	Exterior	OTS	Open to Structure		
FBD	Fiber Board	PBD	Particle 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/ANSI117.1
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 U/ CHAIRS (15)= 636 / 15 = 43

EXIT CALCULATION:

OCC. LOAD 52 = 2 REQD. 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 (5/2=26)= 1 REQD. FIXT.
PROVIDED= 1 W.C.
MEN W.C. FIXTURES (5/2=26)= 1 REQD. FIXT.
PROVIDED= 1 W.C.
WOMEN / MEN LAVATORIES
5/2=26 1 REQD. FIXT.
PROVIDED= 2 LAVATORIES

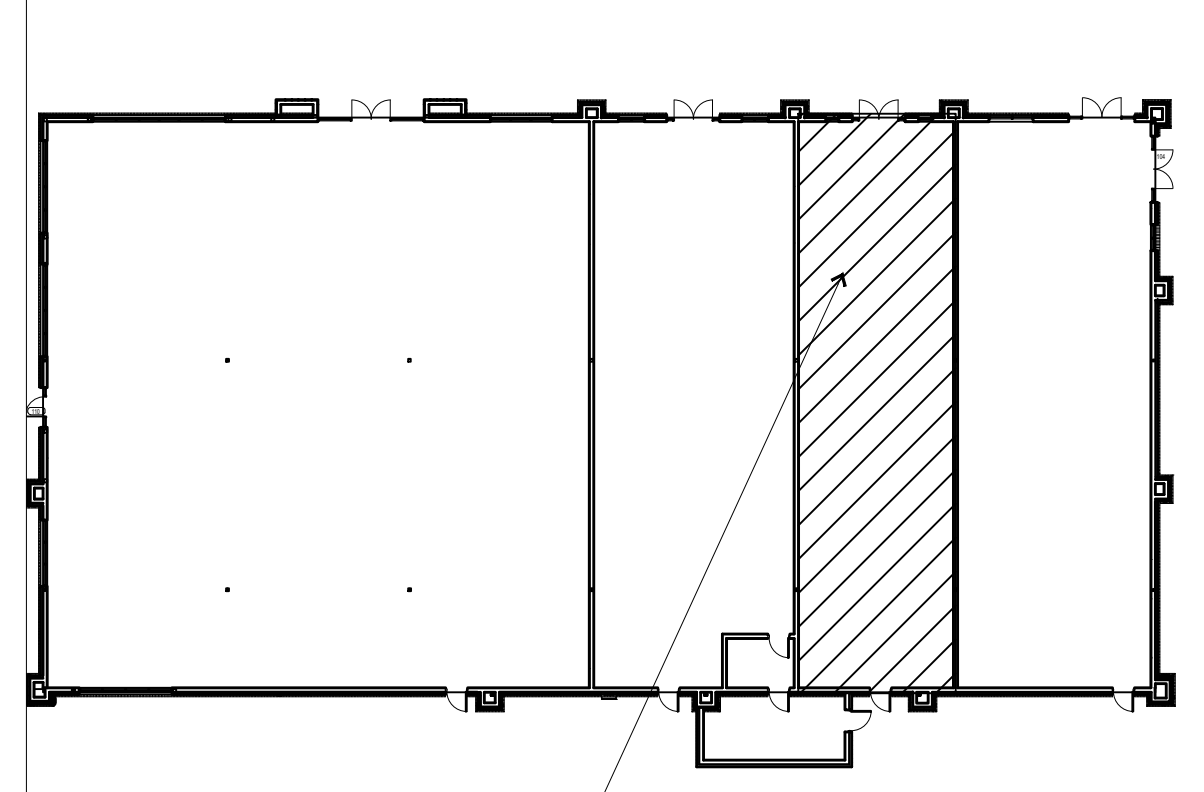
MOP SINKS
1 REQD. MOP SINK
PROVIDED= 1 MOP SINK

PROJECT LOCATION KEY



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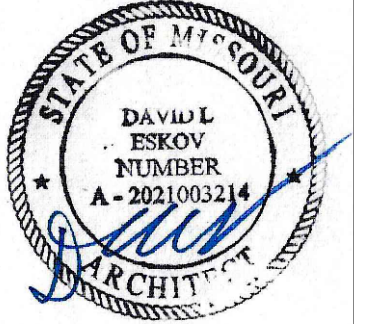
SHOPPING CENTER KEY



PROJECT LOCATION

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

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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

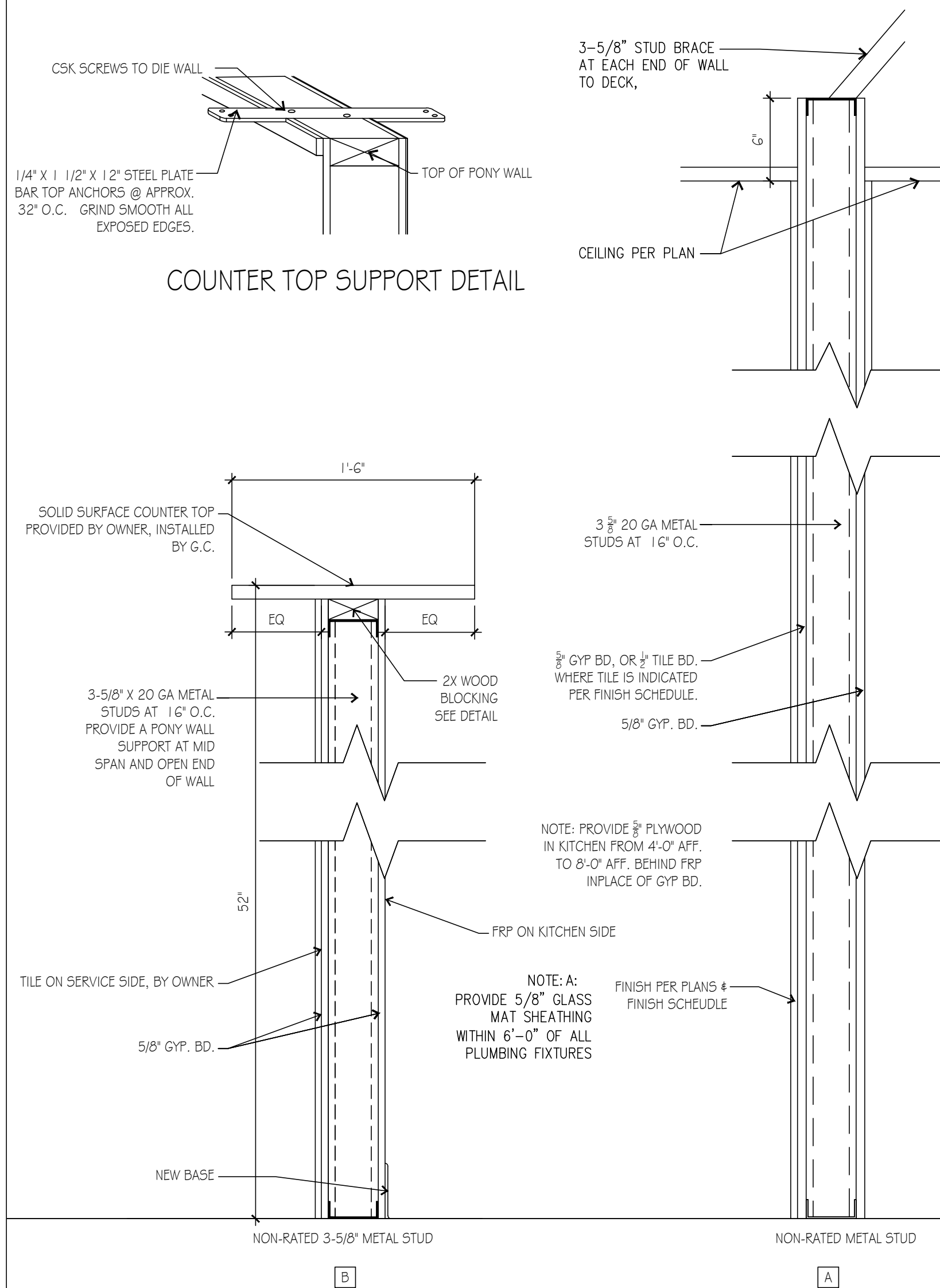
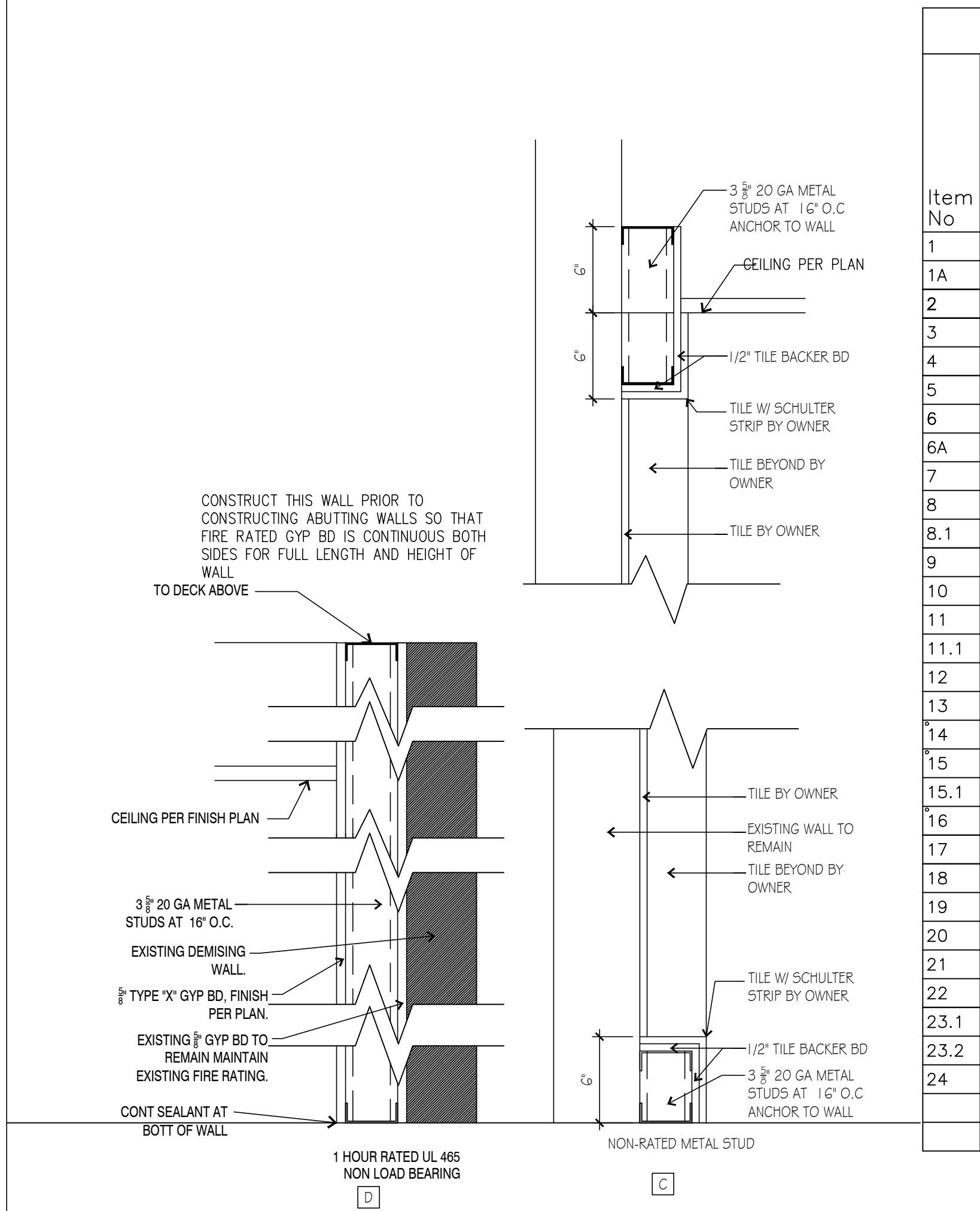
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Cover Sheet



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	5-15P				(2).75		
11.1	1	ICE MAKER FOR BEVERAGE DISPENSER	MANITOWOC ICE	IB-0696YC		130	1.1/1.1		1.0	115/208	1	X	5-15P	0.375			0.5		
12	1	BUBBLER MINI TWIN	CRATHCO	CS-2E															
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	E111-371-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	USB18DD-RM		404													
		HOOD MAKE-UP AIR FAN	CAPTIVE AIRE	A2-20D		708													

EXHAUST AND MAKE-UP AIR WILL BE ELECTRICALLY INTERLOCKED.

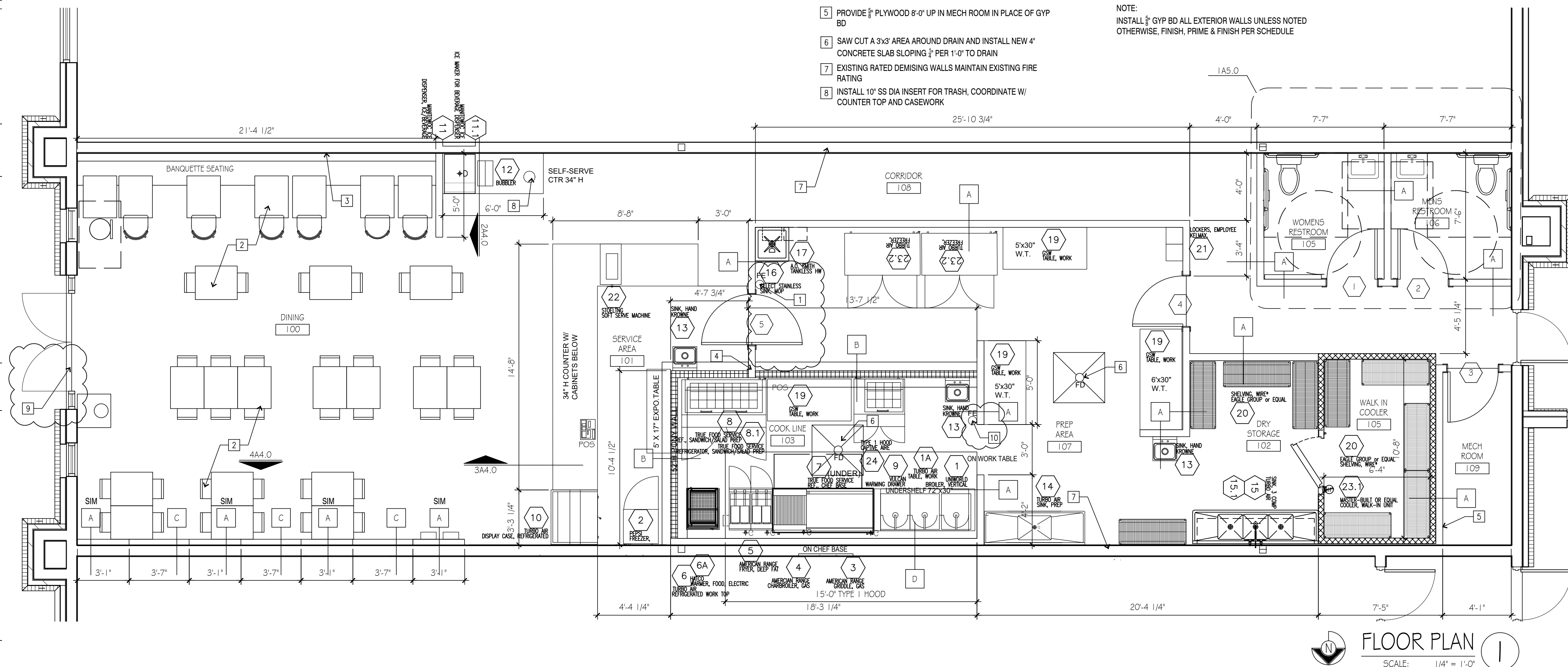
- EQUIPMENT NOTES:
- ALL NEW EQUIPMENT TO BE NSF OR EQUAL & PROPERLY LABELED.
 - SERVICE COUNTERS TO BE MAX. 34" TALL FOR HANDICAP ACCESSIBILITY.
 - ALL EXISTING EQUIPMENT TO BE NSF APPROVED OR EQUIVALENT AND REFURBISHED TO ITS ORIGINAL CONDITION.
 - EQUIP WITH LOCKABLE HEAVY DUTY CASTERS TO FACILITATE CLEANING OF FLOORS.
 - ALL STORAGE SHELVING TO HAVE MIN. 8" LEGS TO FACILITATE CLEANING OF FLOOR; NO STORAGE SHELVING TO BE IN EXCESS OF 5'-6" HIGH OR GREATER THAN 400LB. TOTAL LINEAR FEET OF DRY STORAGE ON WIRE SHELVING IS GRATER THAT 98 FT. (OR 20+ LINEAR FEET OF 5 TIER SHELVING).
 - THE CONTROLS 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.
 - 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).
 - EXHAUST AND MAKE-UP AIR WILL BE ELECTRICALLY INTERLOCKED.
 - 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.
 - PROVIDE EXTRA LONG FLEXIBLE GAS LINES TO ALL EQUIPMENT
 - ALL ENCLOSED EQUIPMENT (E.G. REFRIGERATORS, FREEZERS, HOT FOOD HOLDING UNITS, OVENS, & SIMILAR EQUIPMENT) MUST HAVE ADEQUATE (20+ FOOT CANDLES) INTERIOR LIGHTING.
 - 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.
 - 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.
 - 9" MIN. HIGH STAINLESS STEEL SPLASH GUARD BETWEEN FRYER AND OTHER EQUIPMENT. THE 6" HEIGHT MUST BE MEASURED FROM THE HIGHER OF THE TWO PIECES OF EQUIPMENT.
 - PREP SINK TO HAVE MIN. BOWL SIZE OF 18" X 18" X 12"
 - ALL EQUIPMENT STANDING ON FLOOR IS ON LEGS AT LEAST 6" HIGH OR IS EQUIPPED WITH CASTORS
 - 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

- FIRE EXTINGUISHER, VERIFY TYPE AND LOCATIONS WITH FIRE MARSHAL.
- ALL TABLES, CHAIRS, BANQUET ARE PROVIDED AND INSTALLED BY OWNER.
- GRAPHIC ON WALL BY OWNER. G.C. TO PREP.
- ADJUST COUNTER TO ACCOMMODATE WALL.
- PROVIDE 1/2" PLYWOOD 8'-0" UP IN MECH ROOM IN PLACE OF GYP BD.
- SAW CUT A 3'x3' AREA AROUND DRAIN AND INSTALL NEW 4" CONCRETE SLAB SLOPING 3/8" PER 1'-0" TO DRAIN.
- EXISTING RATED DEMISING WALLS MAINTAIN EXISTING FIRE RATING.
- INSTALL 10" SS DIA INSERT FOR TRASH, COORDINATE W/ COUNTER TOP AND CASEWORK.

- PROVIDE MIN 4" HIGH & STROKE WIDTH OF 0.5" ADDRESS NUMBERS, VERIFY STYLE AND LOCATION W/ FIRE MARSHAL.
- TYPE 'K' FIRE EXTINGUISHER MOUNTED UNDER THE MANUAL PULL STATION FOR HOOD SUPPRESSION, VERIFY TYPE AND LOCATIONS WITH FIRE MARSHAL.

NOTE:
INSTALL 1/2" GYP BD ALL EXTERIOR WALLS UNLESS NOTED OTHERWISE, FINISH, PRIME & FINISH PER SCHEDULE



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

David Eskov
Architect
2146G w 120th st
Olathe, KS 66061
eskovarch@outlook.com
913-284-3660

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Certification
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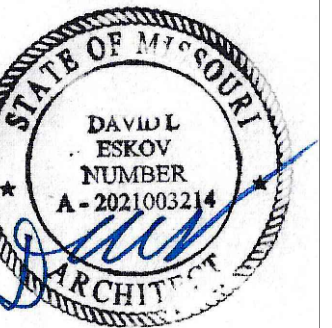
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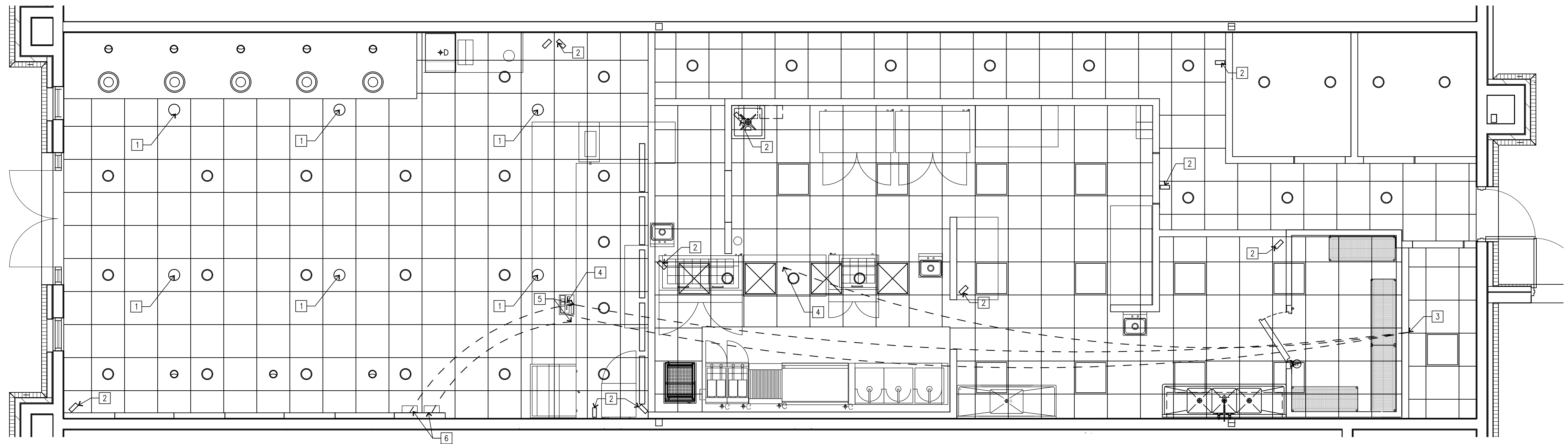
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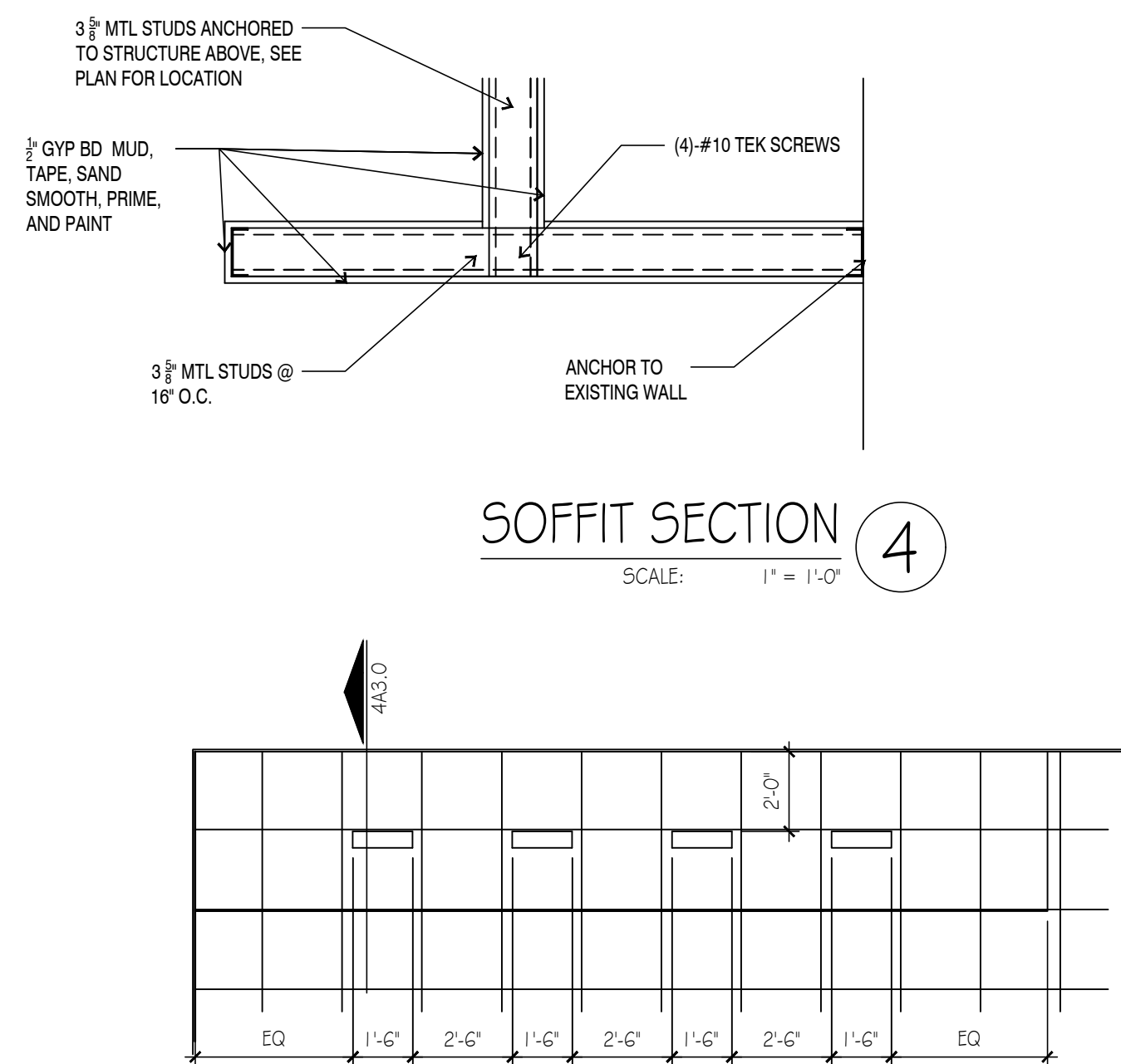
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REFLECTED CEILING PLAN



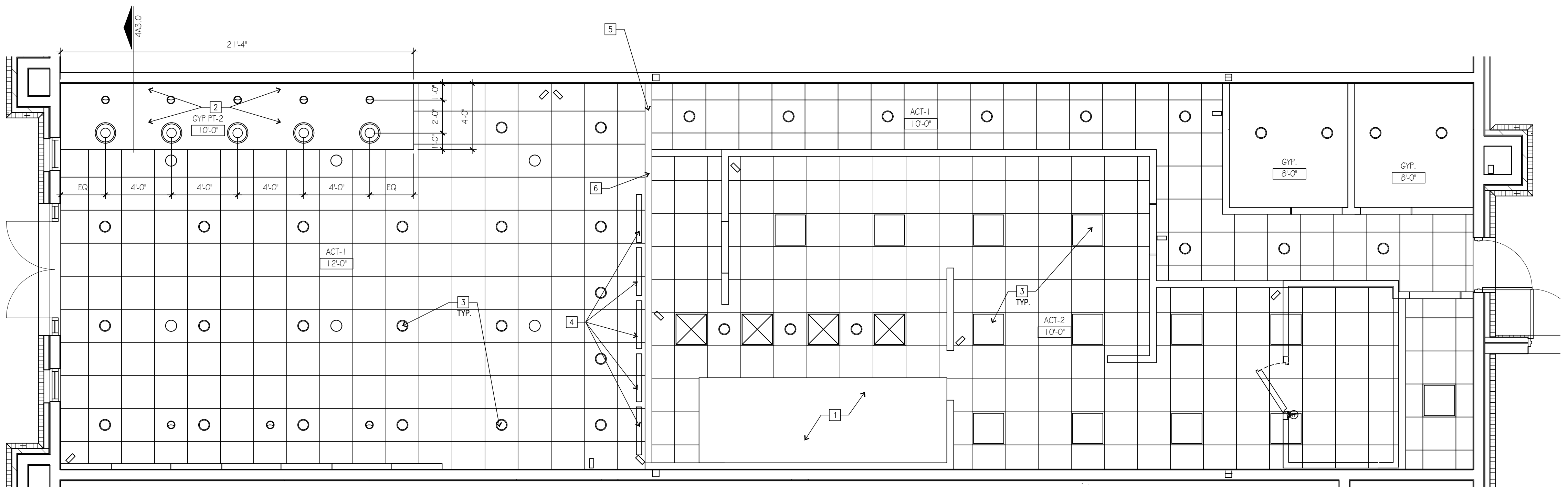
LOW VOLTAGE KEYNOTES

- 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"



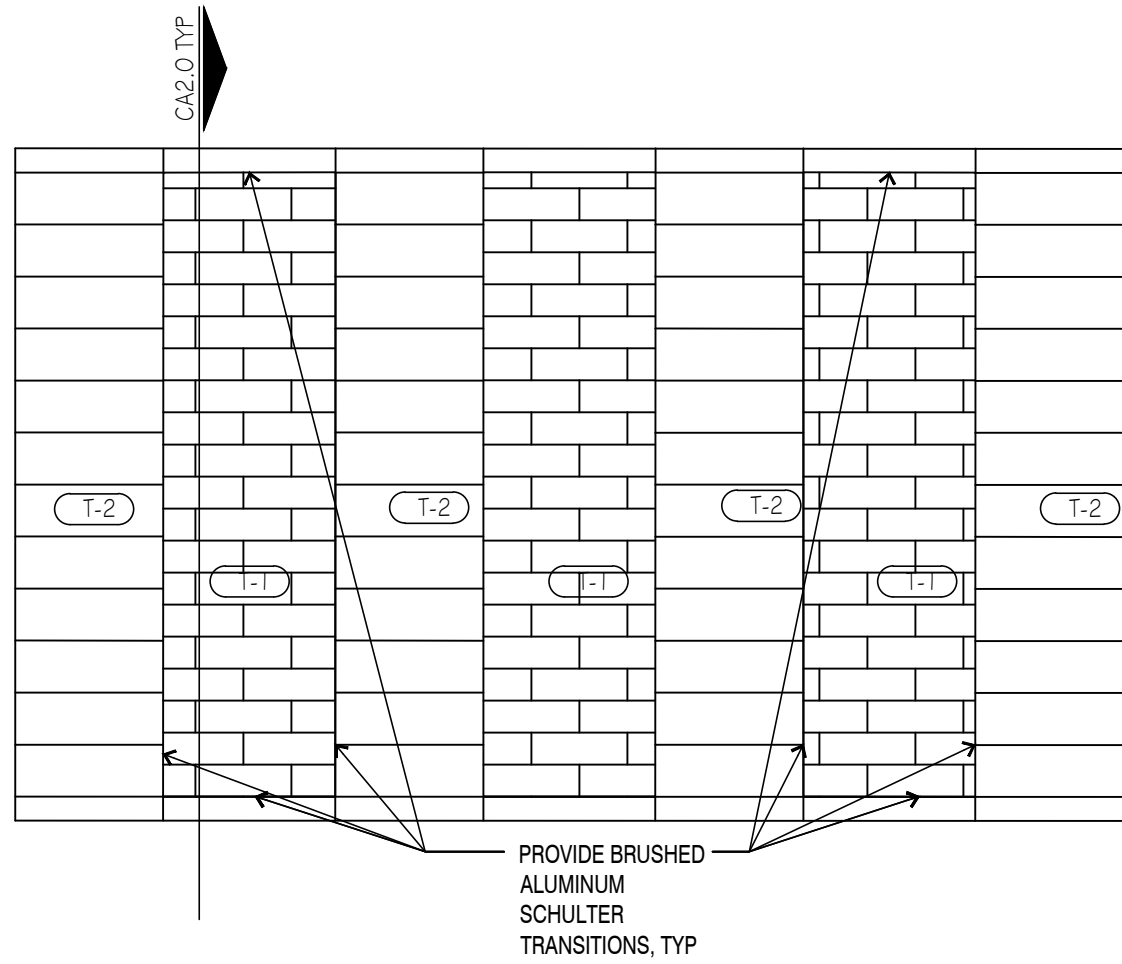
SOFFIT SECTION 4
SCALE: 1" = 1'-0"



RCP KEYNOTES

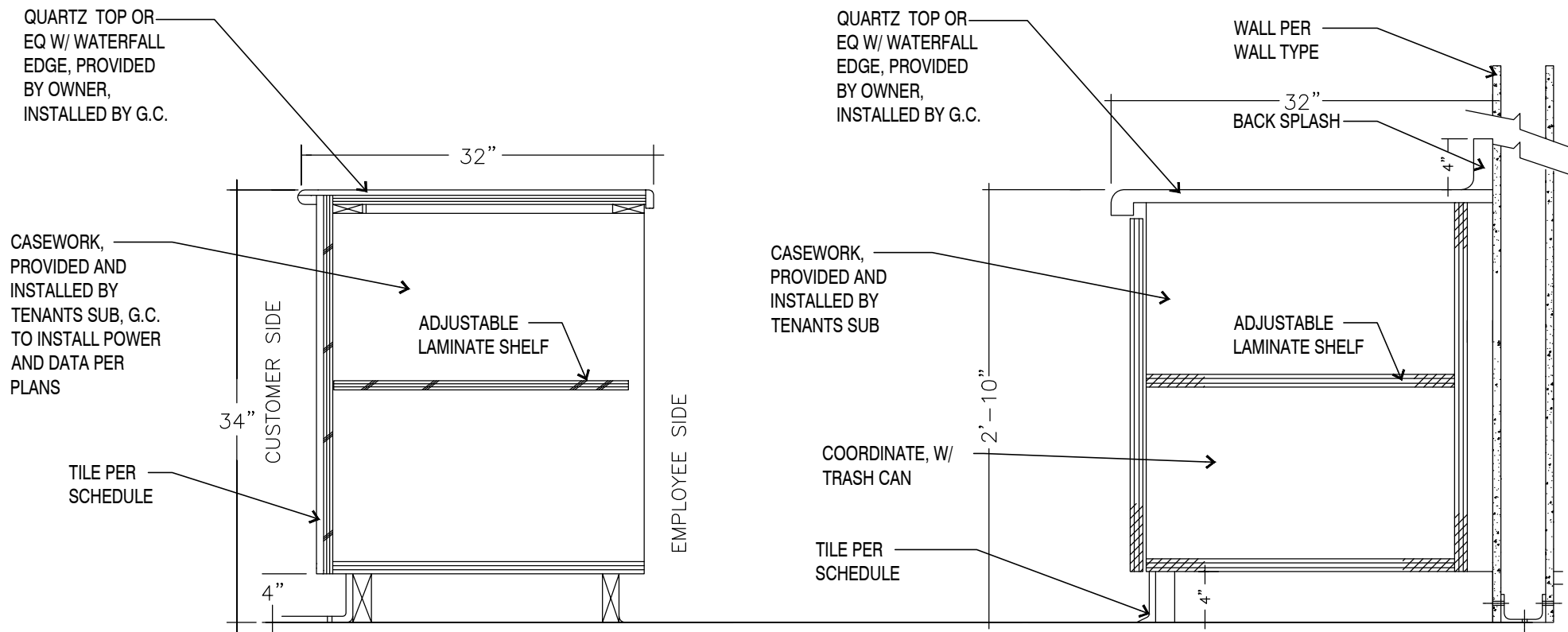
- 1 EXHAUST HOOD
- 2 NEW 1/2" GYP BD SOFFIT ON 3/8" MTL STUDS AT 16" O.C., PAINT SOFFIT AND ABOVE PT-2 TO CEILING. SEE SECTION
- 3 NEW LED LIGHT FIXTURE, RE. MEP, TYP
- 4 ELECTRONIC MENU BOARD MOUNTED TO SOFFIT
- 5 3/8" MTL STUD SOFFIT W/ 1/2" FINISHED GYP BD, BOTTOM @ 9'-10"
- 6 3/8" MTL STUD SOFFIT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

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



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"

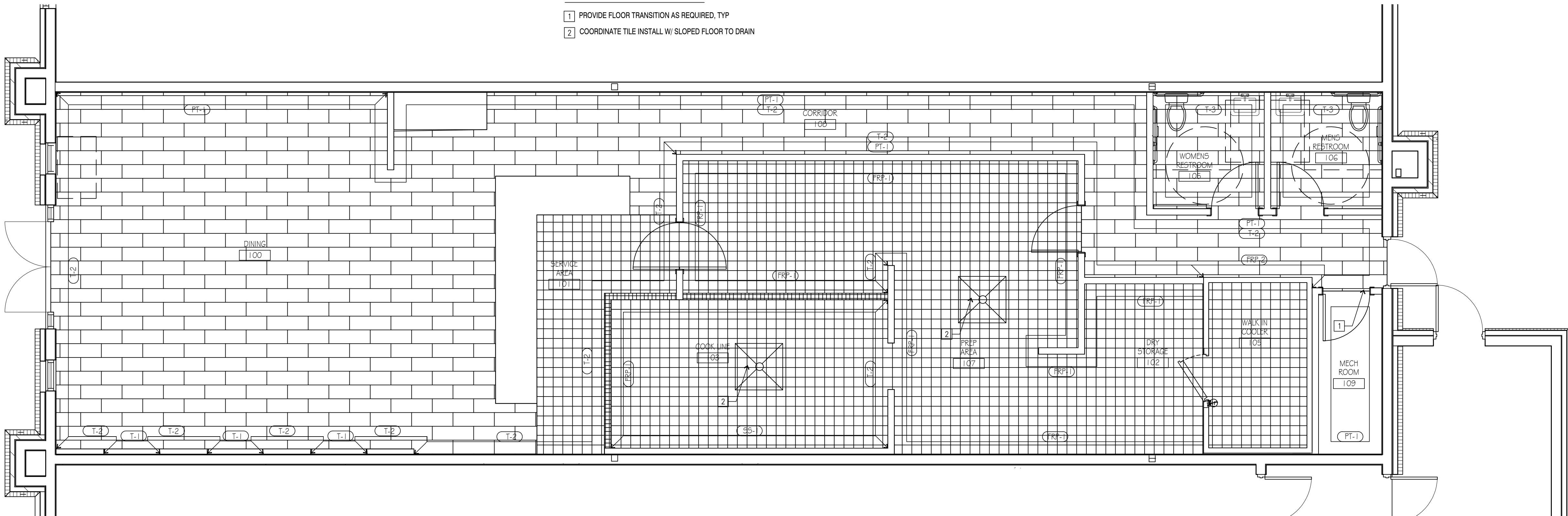
FINISH LEGEND	
T-1	PORCELAIN TILE, - 8"x48" PORCELANO, DELAWARE NOGAL 19 (APPROVED BY OWNER)
T-2	PORCELAIN TILE, - PORCELAN OSA, SHINE ALUMINO NP 33, BRUNEI BLANCO PV (APPROVED BY OWNER)
T-3	PORCELAIN TILE, - 12x24 (TO BE SELECTED BY OWNER)
T-4	QUARRY TILE, - 6x6 W/ GREASE RESISTANT EPOXY GROUT
PT-1	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/ 3/8" RAD
B-2	4" COVED PORCELAIN TILE CONTINUOUS W/ 3/8" 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	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	-	-
Y1 Deep Gold	-	6	1	-
Custom Manual Match				

- FINISH PLAN KEYNOTES
- PROVIDE FLOOR TRANSITION AS REQUIRED, TYP
 - COORDINATE TILE INSTALL W/ SLOPED FLOOR TO DRAIN



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

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

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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

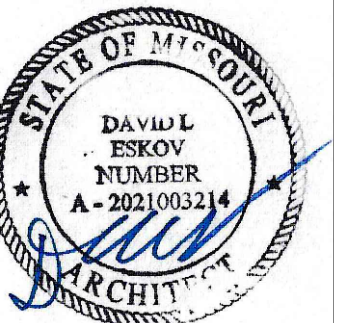
PERMIT
JUNE 13, 2024

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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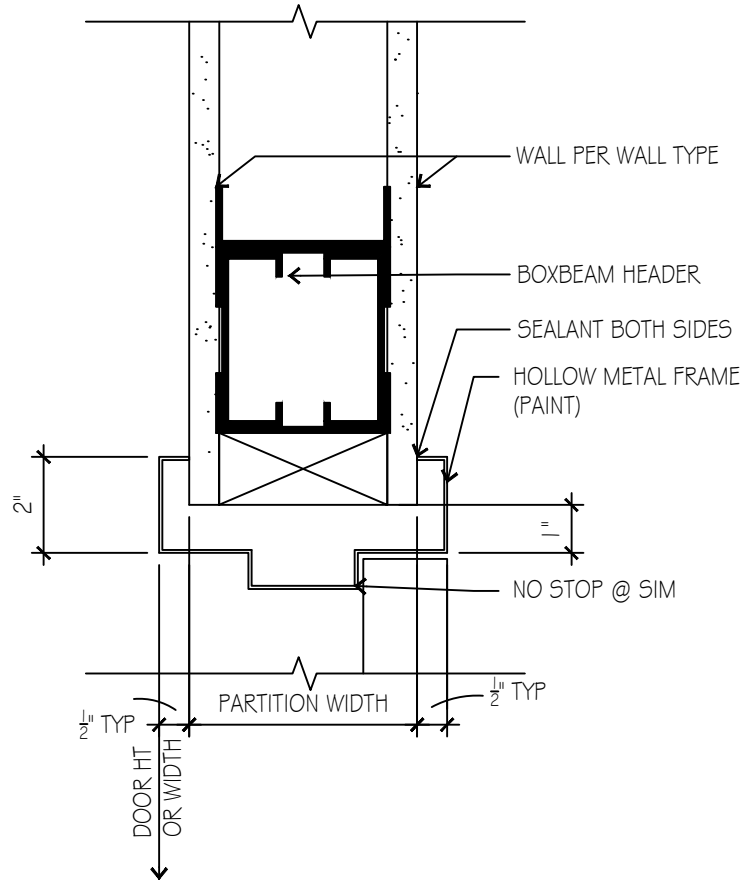
DOOR NOTES

- ALL DOORS 1 3/8" THICK UNLESS OTHERWISE NOTED. (DOORS WITH GLASS LITE SHALL BE 1 1/2" THICK)
- PROVIDE STOPS AT ALL DOORS AS APPLICABLE TO ADJACENT WALL AND DOOR SWING. ALL WITH SELF CLOSING MECHANISM.
- HARDWARE ON ALL DOORS SHALL MEET HANDICAP HEIGHTS. CLOSURE PRESSURE. THRESHOLD SHALL NOT BE MORE THAN 1/2" 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.
- NO FLOOR TRANSITION OR THRESHOLD SHALL BE HIGHER THAN 1/2" (HANDICAP REQUIREMENT).
- WHERE NECESSARY, UNDERCUT DOORS 1" TO ALLOW VENTILATION. SEE MECHANICAL DRAWINGS.
- DOORS AND FRAMES TO BE PREPARED FOR RELATED HARDWARE. IF NECESSARY, REINFORCE DOORS AND FRAMES AS REQUIRED BY HARDWARE.
- FIRE DOORS, FRAMES, HARDWARE AND ALL OTHER DOORS OPERATION SHALL BE IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES.
- PROVIDE ALL ACCESSORIES, COMPONENTS, ASSEMBLIES AND RELATED HARDWARE (EVEN IF NOT SPECIFIED) SO AS TO MAKE COMPLETE AND READY FOR USE..
- GENERAL CONTRACTOR TO PROVIDE ON 12" EQUILATERAL TRIANGLE SIGN FOR MEN AND 12" DIAMETER CIRCLE FOR WOMEN ON TOILET DOORS WITH RAISED LETTER AND BRAILLE SIGNAGE AT LATCH OUTSIDE RESTROOMS ENTRANCE DOOR(S). MOUNTED 60" ABOVE TILE FLOOR AND SITUATED TO ALLOW AN INDIVIDUAL TO APPROACH WITHIN 3".
- 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
- ALL EXTERIOR & RESTROOM DOORS TO HAVE SELF-CLOSING DEVICES. GAPS UNDER EXTERIOR DOORS NOT TO EXCEED 1/4".
- 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.

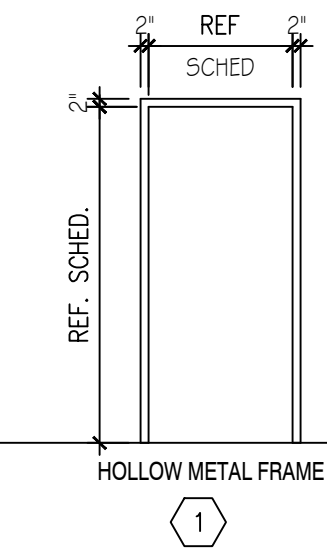
DOOR SCHEDULE											
DOOR NO.	WIDTH	HEIGHT	THICK	TYPE	MATERIAL	FINISH	MATERIAL	FINISH	HEAD	HARDWARE	REMARKS
1	3'-0"	7'-0"	1 3/4"	B	WOOD	PAINT	HM	PAINT	6A5.0	1	PAINT TO MATCH ADJACENT WALL
2	3'-0"	7'-0"	1 3/4"	B	WOOD	PAINT	HM	PAINT	6A5.0	1	PAINT TO MATCH ADJACENT WALL
3	3'-0"	7'-0"	1 3/4"	B	WOOD	PAINT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

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

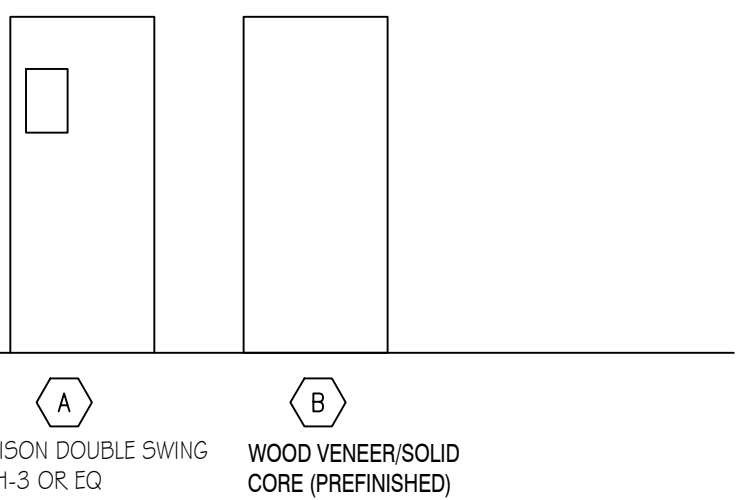
G.C. TO SUBMIT HARDWARE SHOP DRAWINGS TO OWNER FOR REVIEW.



FRAME TYPES:



DOOR TYPES:

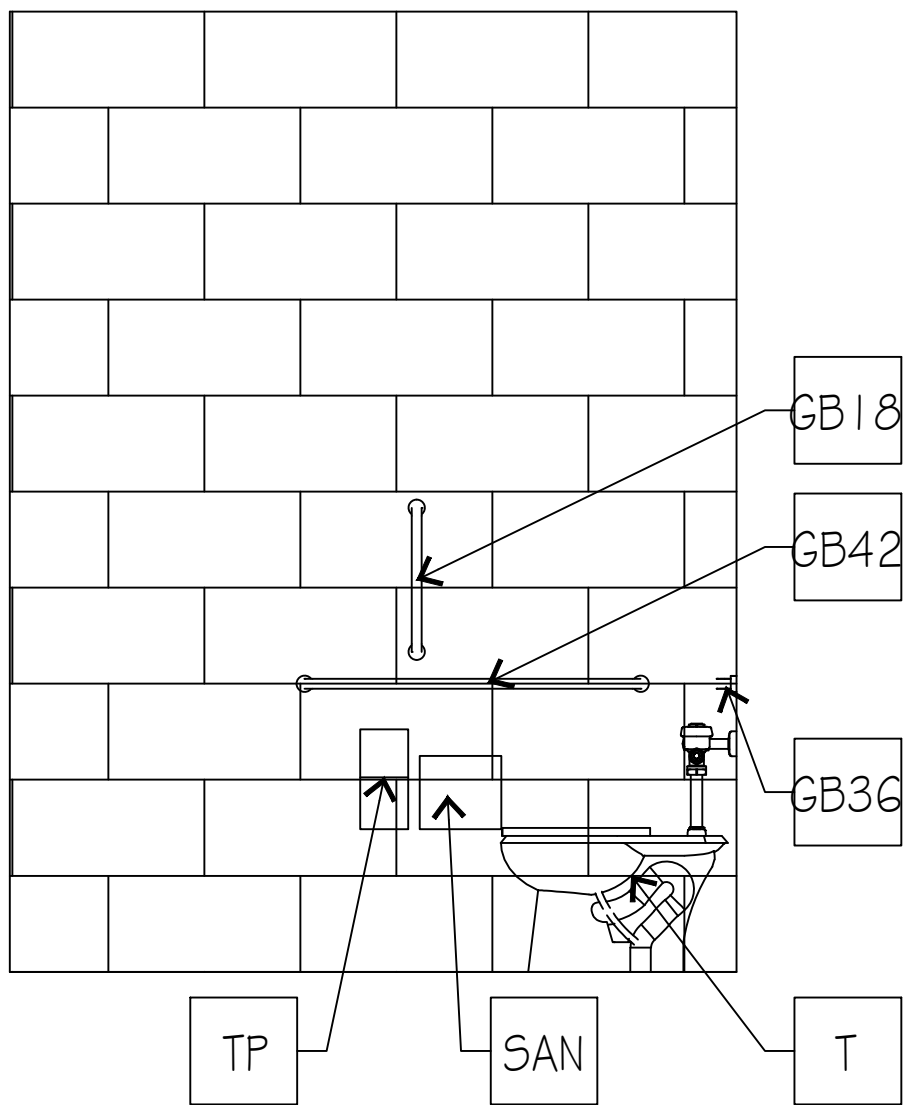


- SET #1
TOILET RM DOOR:
3 - BUTTS, TA 2714
1 - LEVER HANDLE PRIVACY FUNCTION
1 - CLOSER, W/ COVER
1 - KICKPLATE, QUALITY HARDWARE, 10" x 2" x LDW-16GA
1 - STOP, STANLEY HAREDWARE, 431ES
3 - SILENCER, GLYNN-JOHNSON, GJ64
ADA/ANSI COMPLIANT TOILET-ROOM DOOR SIGN @ 60" AFF ON WALL AT STRIKE SIDE

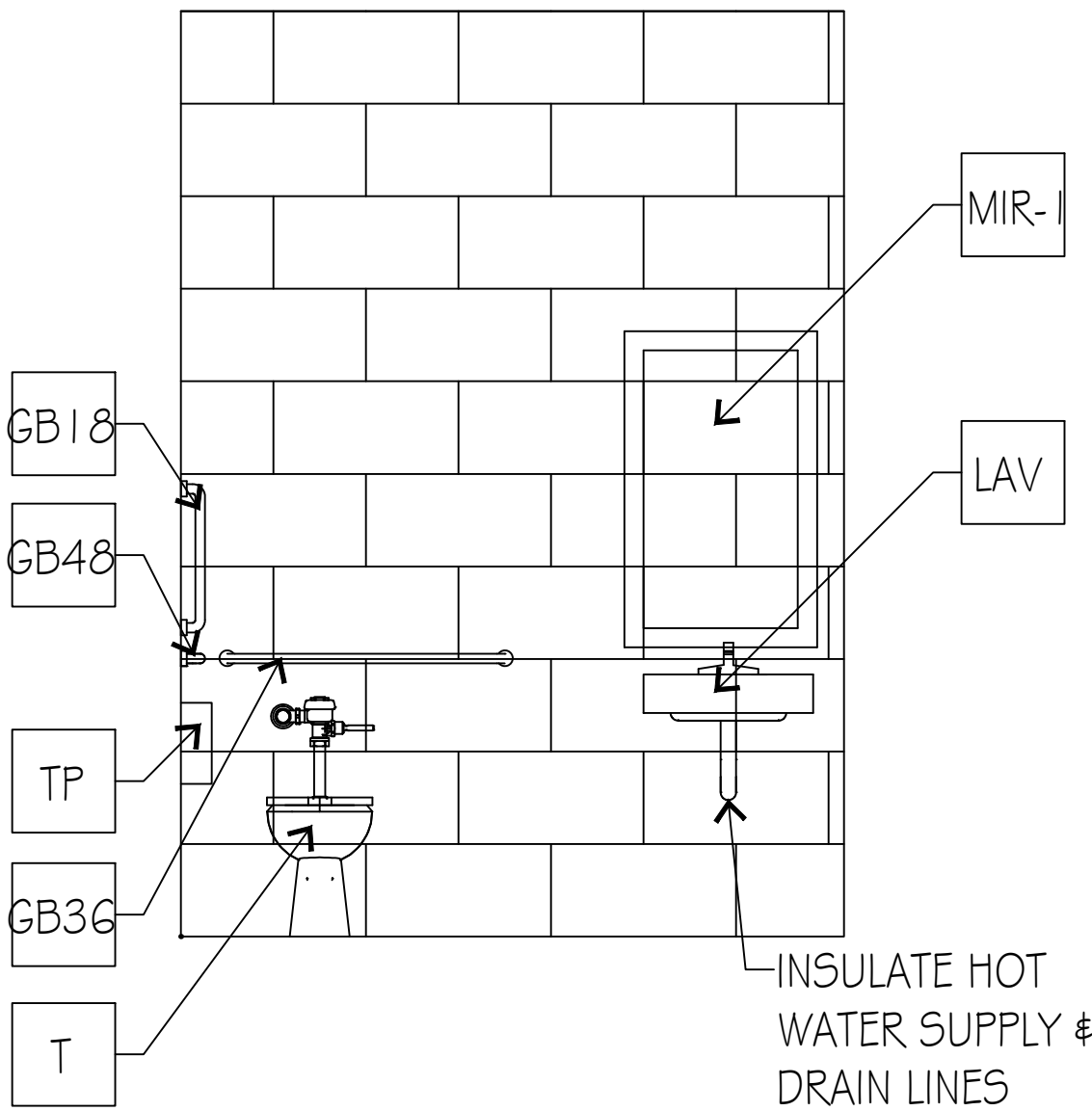
- SET #2
KITCHEN/MECH DOOR:
3 - BUTTS, TA 2714
1 - LEVER HANDLE STOREROOM FUNCTION
1 - STOP, STANLEY HAREDWARE, 431ES
3 - SILENCER, GLYNN-JOHNSON, GJ64

HEAD DETAIL 6
SCALE: N.T.S.

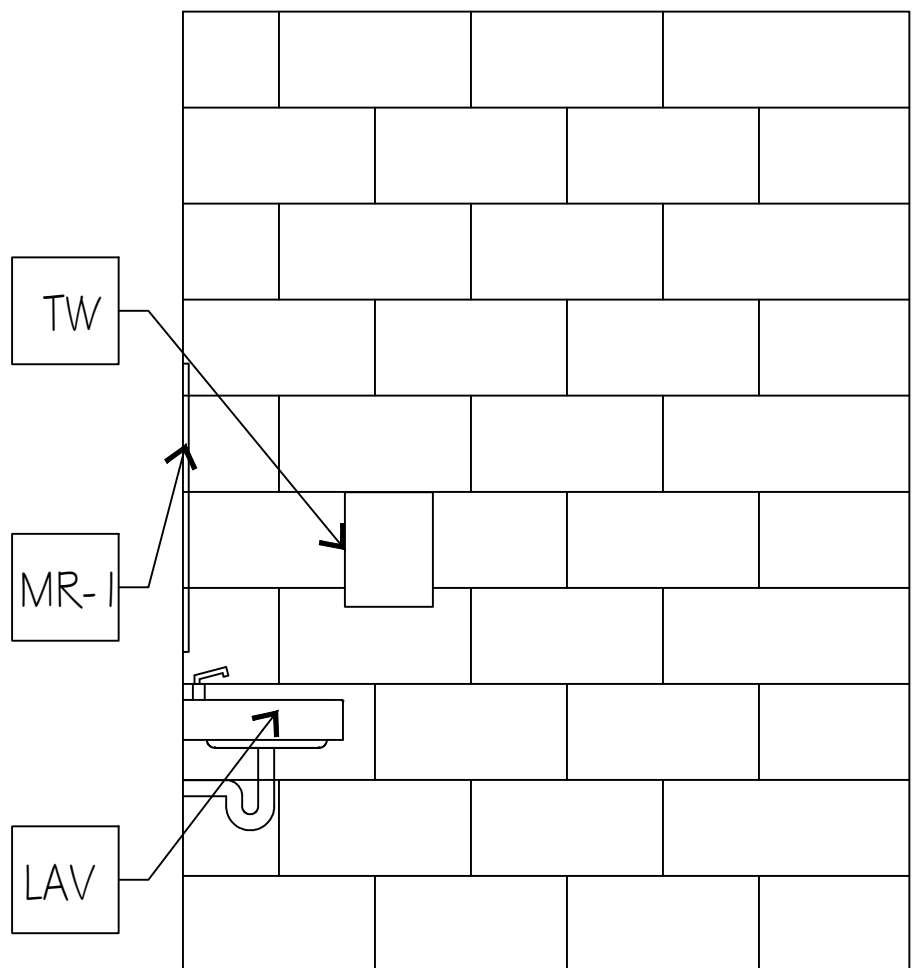
DOOR SCHEDULE 5
SCALE: N.T.S.



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



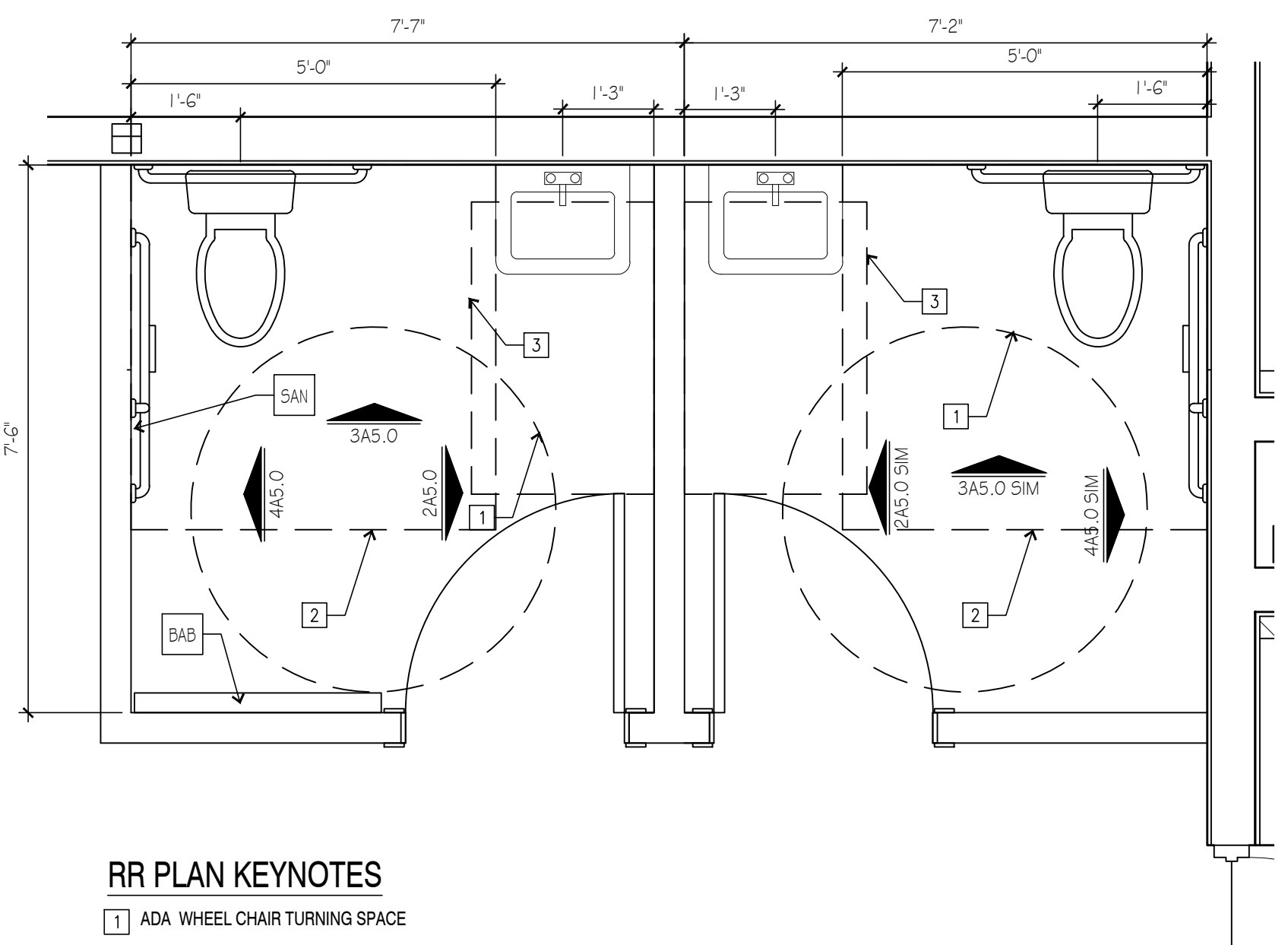
RR ELEVATION 3
SCALE: 1/2" = 1'-0"



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		PIPING SYMBOLS	
	HIGH EFFICIENCY ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)		SHUTOFF VALVE
	SPIN-IN ROUND DUCT TAKEOFF (WITH & WITHOUT MANUAL DAMPER)		BALANCING VALVE
	CONICAL BELLMOUTH ROUND TAKEOFF		PLUG VALVE
	ROUND DUCT RUNOUT WITH FLEX DUCT		AUTO FLOW CONTROL VALVE
	DUCTWORK ELBOW (WITH & WITHOUT TURNING VANES)		PIPING ELBOW UP
	FD-FIRE DAMPER		PIPING ELBOW DOWN
	FS-FIRE/SMOKE DAMPER		PIPING TEE
	SD-SMOKE DAMPER		PIPING TEE UP
	AUTOMATIC MOTORIZED DAMPER		PIPING TEE DOWN
	SUPPLY DIFFUSER AND DIFFUSER CALLOUT (NECK SIZE, TYPE AND CFM)		INCREASE / REDUCER
	LINEAR/SLOT DIFFUSER		UNION
	RETURN GRILLE OR EXHAUST REGISTER		PIPE FLEX
	SUPPLY AIR FLOW INDICATOR		STRAINER
	RETURN AND EXHAUST AIR FLOW INDICATOR		CHECK VALVE
	THERMOSTAT		NIPPLE STRAINER
	HUMIDISTAT		TEST PLUG
	CONTROL WIRING		GUIDE
	INDICATES CONNECT TO EXISTING		ANCHOR
	INDICATES ELEVATION		TRIPLE DUTY VALVE
MECHANICAL PIPING			AUTOMATIC 2-WAY CONTROL VALVE
RL	REFRIGERANT LIQUID		AUTOMATIC 3-WAY CONTROL VALVE
RS	REFRIGERANT SUCTON		SOLENOID VALVE
D	DRAIN (CONDENSATE)		PRESS/ TEMP GAUGE WITH COCK
PLUMBING PIPING			THERMOMETER
-	DOMESTIC COLD WATER		PRESSURE REDUCING VALVE
...	DOMESTIC HOT WATER		RELIEF VALVE
...	RECIRCULATING DOMESTIC HOT WATER		WATER HAMMER ARRESTER
SAN	WASTE ABOVE GRADE OR FLOOR	PLUMBING FIXTURES/EQUIPMENT	
-	WASTE BELOW GRADE OR FLOOR		CLEAN OUT
V	PLUMBING VENT		REDUCED PRESSURE BACKFLOW PREVENTER
W	WATER SERVICE		DOUBLE CHECK BACKFLOW PREVENTER
G	GAS (NATURAL)		PLUMBING FIXTURE AND CALLOUT

ELECTRICAL SYMBOL LEGEND

SOME SYMBOLS AND ABBREVIATIONS ON THIS LEGEND MAY NOT BE USED

CIRCUITINGS		POWER DEVICES	
	HOME RUN (2#12 1#120 UNO)		DUPLEX RECEPTACLE
	INDICATES 2 PHASE, 1 N, & 1 GND CONDUCTOR		LINE THRU DEVICE INDICATES ABOVE COUNTER
	HOME RUN: INDICATES SHARED CIRCUIT		SPECIAL DUPLEX RECEPTACLE (GFCI, ISOLATED GROUND, ETC.)
	HOME RUN: INDICATES #10 CONDUCTORS ENTIRELY		QUADRUPEX RECEPTACLE
UTILITIES			SINGLE-POLE RECEPTACLE W/NEMA CONFIG AS NOTED
---	USE --- UNDERGROUND ELECTRICAL		MULTI-POLE RECEPTACLE W/NEMA CONFIG AS NOTED
TELE	TELECOMMUNICATIONS CONDUIT		CEILING MOUNTED RECEPTACLE
LIGHTING			SINGLE GANG FLOOR BOX (2, 3, 4 GANG SIMILAR)
	FLUORESCENT LIGHT FIXTURE		THERMOSTAT - ELECTRIC
	FLUORESCENT STRIP FIXTURE		PUSH BUTTON
	SURFACE/RECESSED LIGHT FIXTURE		MOTOR
	WALL-MOUNTED LIGHT FIXTURE	TELEPHONE/DATA	
	POLE-MOUNTED LIGHT FIXTURE		TELEPHONE OUTLET (SINGLE-GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)
	EXIT LIGHT		LINE THRU DEVICE INDICATES ABOVE COUNTER
	BATTERY-OPERATED EMERGENCY LIGHT (WALL MTD)		DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CEILING)
	BATTERY-OPERATED EMERGENCY LIGHT (CEILING MTD)		TELEPHONE/DATA OUTLET (DOUBLE-GANG BOX WITH (2) 3/4" CONDUITS TO ABOVE ACCESSIBLE CEILING)
	WALL-MOUNTED COMBINATION EXIT LIGHT/ BATTERY-OPERATED EMERGENCY LIGHT		PHONE OUTLET WITH NUMBER OF PHONE JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.
	LIGHT SWITCH - SINGLE POLE		PHONE/DATA OUTLET WITH NUMBER OF PHONE/DATA JACKS AS INDICATED - SEE DETAILS FOR ADD'L INFO.
	LIGHT SWITCH - 3-WAY		WALL-MOUNTED WIRELESS INTERNET TRANSMITTER
	LIGHT SWITCH - 4-WAY		CEILING-MOUNTED WIRELESS INTERNET TRANSMITTER
	LIGHT SWITCH - DIMMER	AUDIO/VISUAL	
	LIGHT SWITCH - 3-WAY DIMMER		TELEVISION OUTLET (SINGLE GANG BOX WITH (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING)
	WALL-MOUNTED MOTION SWITCH	FIRE ALARM	
	CEILING-MOUNTED MOTION SWITCH		MANUAL PULL STATION
	SWITCHBANK - REFER TO DETAILS		DETECT SMOKE DETECTOR
	TIMELOCK - REFER TO PLANS / DETAILS		DUAL SMOKE DETECTOR
EQUIPMENT			HEAT DETECTOR
	DISCONNECT SWITCH. RE: PLANS FOR INFORMATION.		VISIBLE NOTIFICATION DEVICE WITH CANDELA RATINGS. 75cd UNLESS OTHERWISE NOTED ON PLANS.
	TOGGLE-TYPE DISCONNECT. FURNISH WITH THERMAL PROTECTION WHERE SERVING FANS/PUMPS.		AUDIBLE/VISIBLE NOTIFICATION DEVICE WITH CANDELA RATING. 75cd UNLESS OTHERWISE NOTED ON PLANS.
	SURFACE PANELBOARD	GENERAL SYMBOLS	
GENERAL SYMBOLS			INDICATES CONNECT TO EXISTING
	INDICATES ELEVATION		INDICATES ELEVATION

15000 - MECHANICAL SPECIFICATIONS

SECTION 15000 - MECHANICAL REQUIREMENTS

- GENERAL REQUIREMENTS
- 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.
- 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.
- OWN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO WATER, GAS & SEWER CONNECTIONS TO BUILDING AS REQUIRED.
- 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.
- 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.
- 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.
- ALL MATERIALS INSTALLED IN PLUMBING SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.
- ROOF PENETRATIONS - MADE BY AUTHORIZED ROOFING CONTRACTOR WHEN REQUIRED.

SECTION 15100 - PLUMBING

1. PIPING

- WATER PIPING - ALL WATER PIPING SHALL BE 95-5 TIN-ANTIMONY JOINED TYPE L COPPER, INSULATE W/ FIBERGLASS W/ ASJ & PVC COVERS. THICKNESS IN ACCORDANCE W/ ASHRAE 90.1.
- WASTE & VENT PIPING - CI BELT & 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 PLUMBING.
- GAS PIPING - PROVIDE SCHED 40 CONT. WELD CARBON STEEL W/ CORRESPONDING FITTINGS. PROVIDE THREADED FITTINGS. PROVIDE IRON BODY-BRASS PLUG GAS STOPS, PANTS ALL EXPOSED GAS PIPING ON THE EXTERIOR OF THE BUILDING INCLUDING ON THE ROOF.
- VALVES
- WALL VALVES - 2" & UNDER - BRONZE FULL PORT W/ TEFLON SEATS, BRONZE BALL & INSULATED HANDLE.
- BALANCING VALVES - ARMSTRONG MODEL CBV 1 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, 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.
- EQUIPMENT VALVE MANUFACTURERS: MILWAUKEE, STOCKHAM, POWELL, RED-WHITE, ORME, APOLLO, MUELLER, MUSSO, WATTS, HAYS, ROCKWELL-NORSTROM.

2. FIXTURES - SEE SCHEDULES

- WATER HEATER - STATE, RHEEM, NATIONAL, A.O. SMITH, PORCELAINIZED GLASSJUNO, TANK, COLD WATER INLET DROP TUBE, MAGNESIUM ANODE RODS, UL SEAL, 160 PSI, FACTORY TEMPERATURE & PRESSURE RELIEF VALVE. N.S.F. CONSTRUCTION, 3 YR WARRANTY.
- RECIRCULATION PUMPS - HORIZONTAL, OIL-LUBRICATED, ALL BRONZE, NON-OVERLOADING MOTOR.
- FIXTURES: AMERICAN STANDARD, KOHLER, CRANE, ZURN, TOTO
- STAINLESS STEEL FIXTURES: ELKAY, JUST, MOEN COMMERCIAL
- FITTINGS & SUPPORTS: JOSAM, SMITH, WADE, ZURN, OR JONESPEC
- SEATS: CHURCH, OLSONITE, BEMO OR BENEVO
- TRIM BY DELTA, ELJER, KOHLER, AMERICAN STANDARD, CRANE, SLOAN
- FLUSHVALVES: SLOAN, ZURN, TOTO
- DRAINS BY WADE, ZURN, WOODFORD, SMITH, JOSAM.

EQUIPMENT - SEE SCHEDULES

- WATER HEATER - STATE, RHEEM, NATIONAL, A.O. SMITH, PORCELAINIZED GLASSJUNO, TANK, COLD WATER INLET DROP TUBE, MAGNESIUM ANODE RODS, UL SEAL, 160 PSI, FACTORY TEMPERATURE & PRESSURE RELIEF VALVE. N.S.F. CONSTRUCTION, 3 YR WARRANTY.
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- FLUSHVALVES: SLOAN, ZURN, TOTO
- DRAINS BY WADE, ZURN, WOODFORD, SMITH, JOSAM.

SECTION 15300 - HVAC

GENERAL

- PROVIDE COMPLETE HVAC SYSTEM AS SHOWN ON DRAWINGS INCLUDING ALL NECESSARY EQUIPMENT, DUCTWORK, INSULATION, FILTERS, PROVIDE OPERATING & MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT.
- 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
- HVAC DUCTWORK SHALL BE GALV SHEET METAL OF GAUGES & JOINT TYPES SPECIFIED IN SMACNA MANUAL. PROVIDE TURNING VANES IN ELBOWS.
- VOLUME DAMPERS SHALL BE MANUAL, LOCKING BADE TYPE.
- CEILING DUCT SHALL BE INSULATED, QUALITY BLANK STEEL FOR GREASE DUCTS. CONSTRUCTION SHALL BE WELDED, STEEL MINIMUM OF 16 GAUGE.
- ALL DUCTWORK MUST BE SUPPORTED PROPERLY FROM STRUCTURE.
- WRAP ALL SUPPLY & OUTSIDE AIR HVAC DUCTWORK W/ CERTAINTED 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/ 1/2" LINER. DO NO WRAP EXPOSED SPIRAL DUCTS.

ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	EA	EXHAUST AIR	WH	WAINWALE
AFB	ABOVE FINISHED FLOOR	ELEV	ELEVATION	MLO	MAIN LOSS ONLY
AFG	ABOVE FINISHED GRADE	EM	EMERGENCY FIXTURE/DEVICE	NL	NIGHT LIGHT
AG	ABOVE GRADE	ENT	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	FLOSH FLOOR CLEAN OUT	PSQ	POUNDS PER SQUARE INCH
BFP	BACKFLOW PREVENTER	FL	FLOW LINE	POLY	POLYETHYLENE
BG	BELOW GRADE	FLR	FLOOR	RA	RETURN AIR
BUDG	BUILDING	FP	FIRE PROTECTION	REF/REF	REFERENCE
BMS	BUILDING MANAGEMENT SYSTEM	FFM	FEET PER MINUTE	RF	RELIEF FAN
C	CONDUIT	FWCO	FRESH WALL CLEAN OUT	RL	RELOCATED ITEM
CD	CANDELA	JB	JUNCTION BOX	RPZ	REDUCED PRESSURE ZONE
CLG	COOLING	G/C	GENERAL CONTRACTOR	RR	RESTROOM
CM	COORDINATE MOUNTING HEIGHT	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SA	SUPPLY AIR
CO	CLEAN OUT	GPM	GALLONS PER MINUTE	ST	SHUNT TRIP
CTE	CONNECT TO EXISTING	HTG	HEATING	TA	TRANSFER AIR
C	CANDELA	IG	ISOLATED GRADE	TP	TAMPERPROOF
CLG	COOLING	JOB	JUNCTION BOX	TR	TRANSFER
CM	COORDINATE MOUNTING HEIGHT	LED	LIGHT EMITTING DIODE	TR	TRANSFER
CO	CLEAN OUT	M/C	MECHANICAL CONTRACTOR	VTR	VENT THROUGH ROOF
DCH	DOMESTIC HOT WATER	MAU	MAKE UP AIR UNIT	WCO	WATER COOLING
DHWR	DOMESTIC HOT WATER RETURN	MCB	MAIN CIRCUIT BREAKER	WG	WIRE GUARD
DW	DOWN	MCH	MECHANICAL	WP	WEATHERPROOF
E/C	ELECTRICAL CONTRACTOR				

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

SPECIALTIES

- CONVOLVE DUCTS - THERMAFLEX OR EQUAL SOUND RATED TYPE G-HM 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".
- DIFFUSED GRILLES - SEE SCHEDULE. EQUIVALENT BY PRICE, TUTTLE & BAXLEY, TITUS, MATEL-AIRE, KREUGER, NALOR. COORDINATE COLOR, MOUNTING W/ DUCT, CEILING, ARCHITECT.

EQUIPMENT

- 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/ 1/4" MIN. CURB. PROVIDE GREASE TRIM & VENTILATED CURB EXTENSIONS FOR GREASE FANS.
- 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, AMON, LENNOX, DAKIN, OR APPROVED EQUAL.
- MAKE-UP AHU - SEE SCHEDULE. HEAVY GAUGE GALV STEEL CONSTRUCTION, 1" METAL MESH FILTERS, BELT DRIVEN FAN, FAN & MOTOR ASSEMBLY MTD ON VIBRATION ISOLATORS. SHAFI SHALL BE MTD IN HD, SEALED BALL BEARINGS. ADJUSTABLE SHAFTS. 1500 HP DRIVES. 401 DIRECT GAS DRYED & C.O.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 CAPTECH, GREENHECK, TRANE, ENGINEERED AIR, REZOR, HASTINGS, STERLING, AMON, DAKIN.
- HOOD FIRE-EXTINGUISHING EQUIPMENT - PROVIDE STAND ALONE, AUTOMATIC EXTINGUISHING SYSTEM FOR EXHAUST HOODS & DUCT SYSTEM MEETING REQUIRED 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 APPLANCES 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

- 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 SMOKE SYSTEMS.
- PROVIDE GROUND-MOUNTED UNITS ON 4", REINFORCED CONCRETE BASE, 4" LARGER THAN UNIT ON EACH SIDE.
- GROUND-MOUNTED UNITS ON EQUIPMENT SUPPORTS OR CURBS. ANCHOR UNITS TO SUPPORTS.
- PROVIDE FACTORY-AUTHORIZED SERVICE START UP ON EQUIPMENT. TRAIN OWNER'S MAINTENANCE PERSONNEL ON STARTUP, SHUTDOWN, TROUBLESHOOTING, SERVICING, PREVENTIVE MAINTENANCE.

SECTION 15000 - SYSTEM TESTING & BALANCING

- TESTING & BALANCING (TAB) SHALL BE PERFORMED BY 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 ASAC & ALL WORK SHALL BE PERFORMED IN ACCORDANCE W/ ORGANIZATIONS PUBLISHED PROCEDURE MANUALS.
- 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.
- 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.
- CHECKS SHALL BE PERFORMED ON EACH SYSTEM INSTALLED UNDER THIS CONTRACT. TAB REPORT SHEET SHALL BE PREPARED FOR EACH SYSTEM INDICATING CHECKS, CORRECTIVE ACTION TAKEN WHERE REQUIRED, DATE & NAME OF INSPECTOR. SUBMIT (1) COPY TO TAB CONTRACTOR & (1) TO A/E. TAB CONTRACTOR SHALL NOT BEGIN UNTIL CHECKLIST HAS BEEN RECEIVED & REVIEWED.
- 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.
- BALANCING CONTRACTOR SHALL PREPARE CERTIFIED REPORT OF ALL TESTS PERFORMED. REPORT SHALL BE WRITTEN ON STANDARD FORMS PREPARED BY NEBB OR ASAC 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.
- 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 ASAC FORMS COMPLETED AS REQUIRED BY CERTIFICATION.
- 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.
- 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 DEVICES AS REQUESTED BY TAB CONTRACTOR. FOLLOWING EACH VISIT TAB CONTRACTOR SHALL REPORT TO A/E ALL ITEMS NOTED, ACTION TAKEN & PROGRESS OF INSTALLATION.

GENERAL ELECTRICAL NOTES

- 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.
- COORDINATE LOCATIONS OF RECEPTABLES, SWITCHES, ETC. WITH ARCHITECTURAL CASEWORK AND ELEVATIONS.
- REFER TO MOUNTING HEIGHTS DETAIL FOR MOUNTING HEIGHTS OF ALL DEVICES NOT INDICATED THEREON.
- PROVIDE ALL EMPTY CONDUITS WITH PULL STRINGS AND BUSHED ENDS.
- CONTRACTOR SHALL CONCEAL ALL CONDUIT, FITTINGS, AND DEVICES FROM VIEW WHERE REASONABLY POSSIBLE.

GENERAL PLUMBING NOTES

- COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED VERSION OF THE INTERNATIONAL PLUMBING CODE, LOCAL AND STATE CODES, AND REQUIREMENTS OF THE AHJ.
- NO PIPING SHALL BE INSTALLED WHERE IT WILL BE 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.
- PROVIDE CLEANDOUTS IN THE FOLLOWING LOCATIONS:
 1. IN ALL HORIZONTAL DRAINS (WITHIN THE BUILDING) NOT MORE THAN 100 FEET APART.
 2. IN BUILDING SEWERS LOCATED NO MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANDOUT.
 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 CLEANDOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.
 4. AT THE BASE OF EACH WASTE OR SOIL STACK.
 5. NEAR THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER.

16000 - ELECTRICAL SPECIFICATIONS

SECTION 16000 - ELECTRICAL REQUIREMENTS

GENERAL REQUIREMENTS

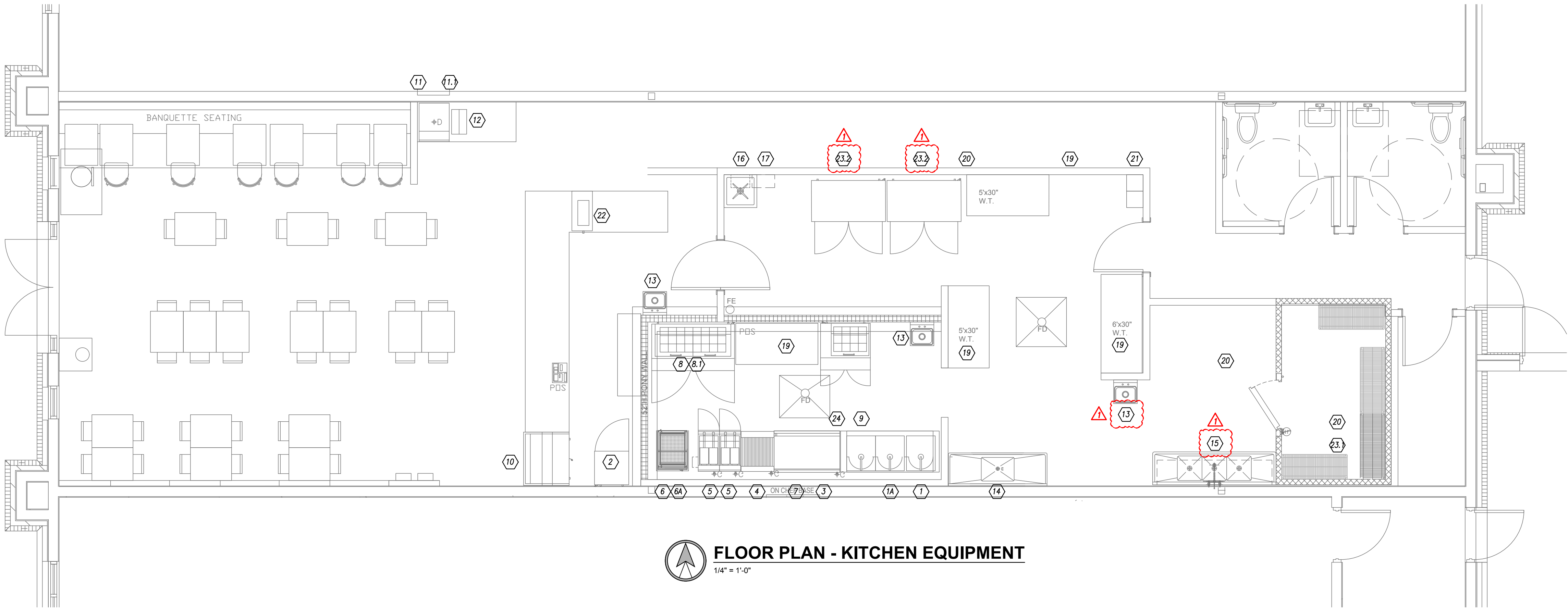
- ALL WORK SHALL BE IN ACCORDANCE W/ LATEST EDITION OF INTERNATIONAL BUILDING CODE, NATIONAL ELECTRICAL CODE, NFPA CODES AS ADOPTED BY CITY, COUNTY, STATE & ALL OTHER APPLICABLE CODES.
- ALL MATERIALS & EQUIPMENT SHALL BE NEW & SHALL BEAR UL LABEL WHERE APPLICABLE. PROVIDE WATERPROOF EQUIPMENT ENCLOSURES WHERE REQUIRED.
- OBTAIN & PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THIS WORK & SHALL MAKE ARRANGEMENTS FOR MODIFICATIONS TO ELECTRICAL CONNECTIONS TO BUILDING AS REQUIRED.
- 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.
- WHERE AN ELECTRICAL DEVICE IS REQUIRED BY CODE BUT NOT SHOWN, IT SHALL BE PROVIDED AS THOUGH FULLY SHOWN & SPECIFIED.
- 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.
- 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.
- 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.
- ALL MATERIALS INSTALLED IN PLUMBING SHALL BE NONCOMBUSTIBLE OR HAVE FLAME/SMOKE INDEX OF NO MORE THAN 25/50 IN ACCORDANCE W/ ASTM E 84.

SECTION 16100 - CONDUIT & CONDUCTORS

- FOLLOW CIRCUITING SHOWN ON PLANS. USE NO CONDUIT SMALLER THAN 1/2" & NO CONDUCTORS SMALLER THAN #12 GA UNLESS NOTED OTHERWISE.
- 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.
- MC CABLE ASSEMBLY FOR BRANCH CONVENIENCE CIRCUITS AND LIGHTING CIRCUITS. DO NOT DISTR CHAIN LIGHT FIXTURES. PROVIDE MC LUMINARY CABLE WITH BUILT-IN TWISTED JACKED PATT FOR LIGHTING CIRCUITS FOR LIGHTING CONTROLS. PROVIDE HEALTH CARE RATED MC FOR MEDICAL TREATMENT AREAS WHEN NOT IN CONDUIT.
- CONDUIT INSTALLED BELOW GRADE SHALL BE SCHEDULE 80 PVC HEAVY WALL PLASTIC CONDUIT MEETING NEMA STANDARDS & UL LISTED FOR UNDERGROUND & EXPOSED USE. PROVIDE GRS RADIIUS BENDS & RISERS AS CONDUITS RISE ABOVE GRADE OR ABOVE FLOOR SLAB.
- PROVIDE INTERLOCKING SPACERS FOR MULT RUNS OF UG CONDUITS IN SAME TRENCH.
- LIGHTING & RECEPTACLE CIRCUIT CONDUCTORS SHALL BE COPPER THINW/THIN 600 VOLT, 75 DEG C, COLOR CODE AS DESCRIBED UNDER APPLICABLE CODES. NO ALUMINUM, PLASTIC, INSULATED, LIGHTING ETC PERMITTED. LIGHT FIXTURE WIRE INSULATION SHALL HAVE TEMP RATING NOT LESS THAN THE MANUFACTURER'S RECOMMENDED INDIVIDUAL FIXTURE RATING.
- CIRCUITS W/ NO. 8 OR LARGER CONDUCTORS, MOTOR CIRCUITS, POWER & FEEDER CIRCUITS & BUILDING SERVICE FEEDERS SHALL BE COPPER THINW/THIN 600 VOLT, 75 DEG C.
- ALL CONDUIT, JUNCTION BOXES, ETC. ABOVE CEILING SHALL BE SUPPORTED FROM STRUCTURE. PIPE SLEEVES, HANGERS & SUPPORTS SHALL BE FURNISHED & SET & CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER & PERMANENT LOCATIONS.

SECTION 16200 - GROUNDING

- SUPPLEMENT GROUNDING NEUTRAL OF SECONDARY DISTRIBUTION SYSTEM W/ EQUIPMENT GROUNDING SYSTEM,



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	1.1/1.1		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	USB118DD-RM		404														
		HOOD MAKE-UP AIR FAN	CAPTIVE AIRE	A2-20D		708														

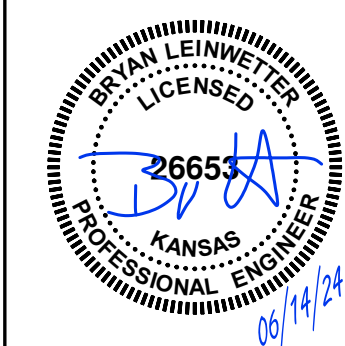
EXHAUST AND MAKE-UP AIR WILL BE ELECTRICALLY INTERLOCKED.

EQUIPMENT NOTES:

- ALL NEW EQUIPMENT TO BE NSF OR EQUAL & PROPERLY LABELED.
- SERVICE COUNTERS TO BE MAX. 34" TALL FOR HANDICAP ACCESSIBILITY.
- ALL EXISTING EQUIPMENT TO BE NSF APPROVED OR EQUIVALENT AND REFURBISHED TO ITS ORIGINAL CONDITION.
- EQUIP WITH LOCKABLE HEAVY DUTY CASTERS TO FACILITATE CLEANING OF FLOORS.
- 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 SHELVING IS GRATER THAT 98 FT. (OR 20+ LINEAR FEET OF 5 TIER SHELVING).
- THE CONTROLS 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.
- 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).
- EXHAUST AND MAKE-UP AIR WILL BE ELECTRICALLY INTERLOCKED.
- 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.
- PROVIDE EXTRA LONG FLEXIBLE GAS LINES TO ALL EQUIPMENT
- ALL ENCLOSED EQUIPMENT (E.G. REFRIGERATORS, FREEZERS, HOT FOOD HOLDING UNITS, OVENS, & SIMILAR EQUIPMENT) MUST HAVE ADEQUATE (20+ FOOT CANDLES) INTERIOR LIGHTING.
- 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 OR TEMP. DISPLAY. THIS DISPLAY MUST HAVE A SCALE, PRINTED RECORD, OR READOUT IN INCREMENTS NO GREATER THAN 2°F OVER INTENDED RANGE OF USE.
- 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.
- 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.
- PREP SINK TO HAVE MIN. BOWL SIZE OF 18" X 18" X 12"
- ALL EQUIPMENT STANDING ON FLOOR IS ON LEGS AT LEAST 6" HIGH OR IS EQUIPPED WITH CASTORS
- WALK IN COOLER/FREEZER SHALL COMPLY W/ IBC 2003.2. 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

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

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Revisions
JUNE 26, 2024

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STREET'S OF WEST PRYOR
XXX PRYOR
LEE'S SUMMIT, MO

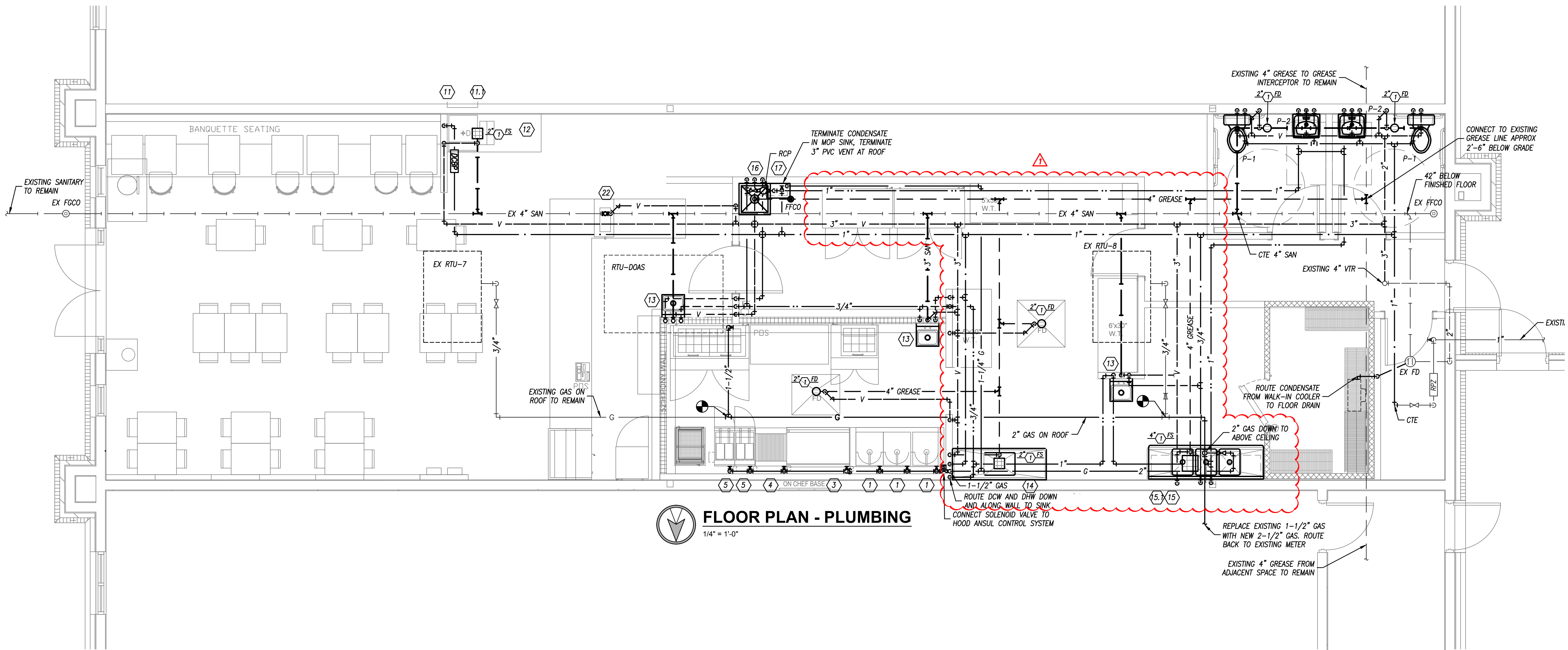
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ME2.0
KITCHEN EQUIPMENT
PLAN



24.211

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 CST44SL	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 SCS34	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, TALPIECE, AND P-TRAP INSULATE THE TALPIECE, 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.

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

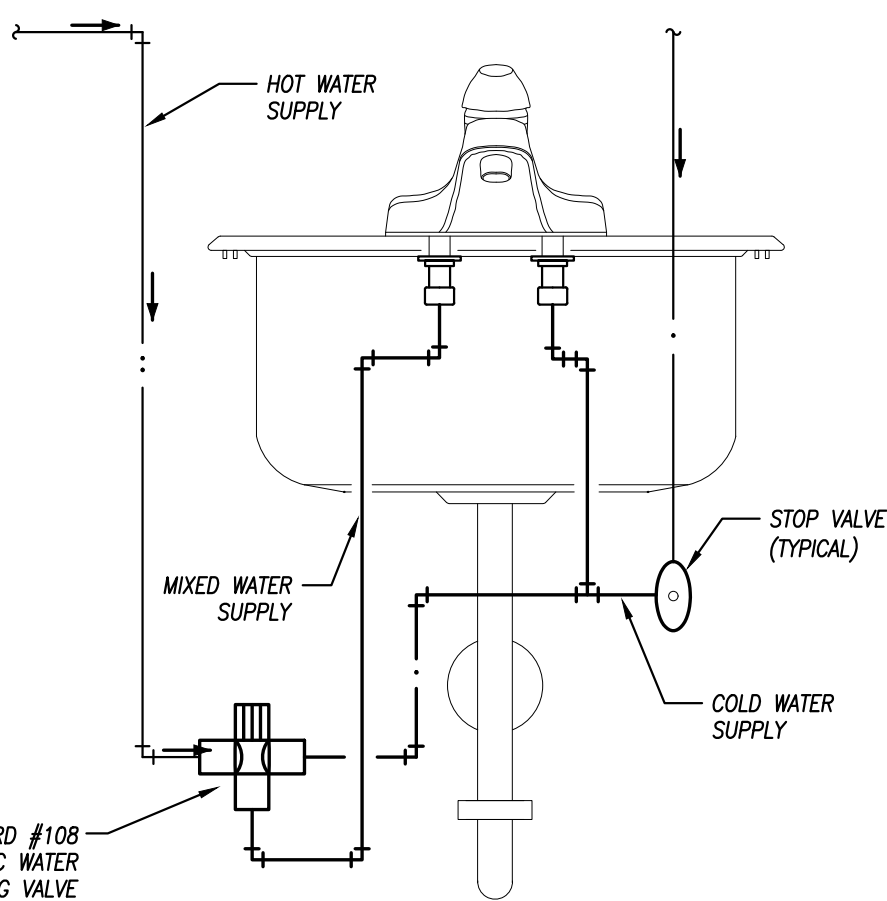
PLAN MARK	MANUFACTURER	MODEL NUMBER	GALLONS	USE	STYLE	GAS INPUT (MBH)	VOLTAGE/ PHASE	REMARKS
WH-1	AO SMITH	ACT-1991-N	TANKLESS	COMMERCIAL	INSTANTANEOUS	199	120V/1Ø	1,2

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.

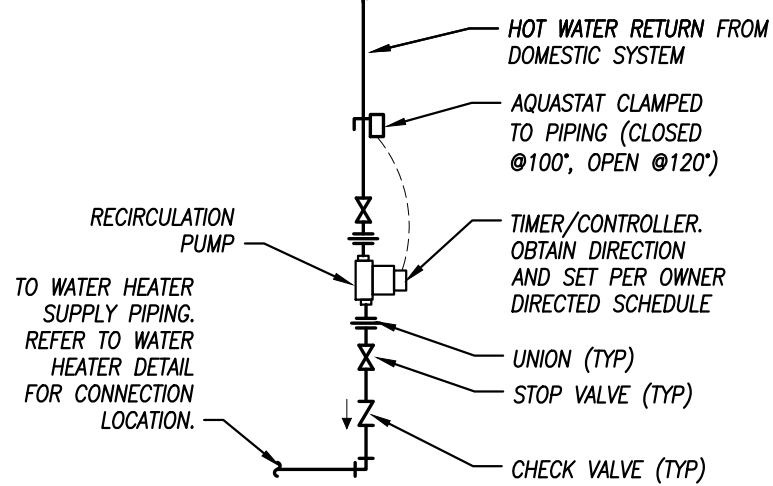
PIPING MATERIAL & INSULATION SCHEDULE

PIPING SYSTEM	SIZE	TYPE/SCHED	MATERIAL	ACCEPTABLE FITTINGS	FIELD TEST PRESSURE/TIME	ALLOWABLE IN PLENUMS	INSULATION	
							TYPE	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 - SEAMED	WELDED	75 PSI - 1HR	YES	----	----
NATURAL GAS - ABOVE GRADE	1/2"-2"	SCH. 40	STEEL - SEAMLESS	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)

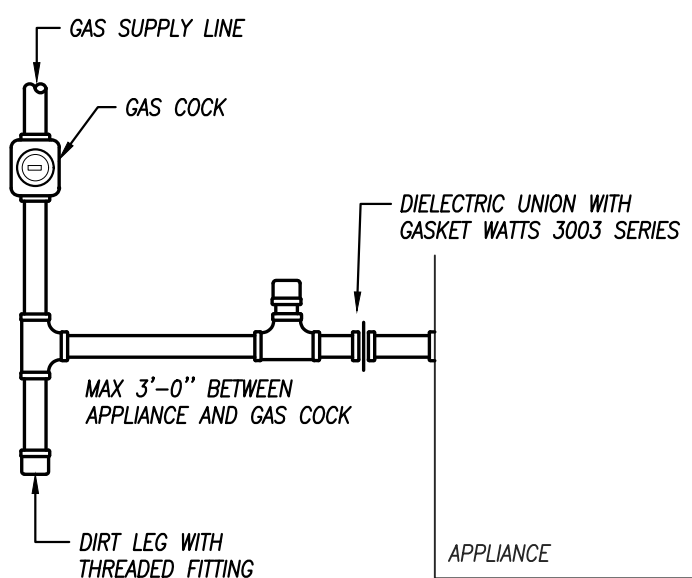
- NOTES
1. ALL PIPING AND MATERIALS IN PLENUMS MUST MEET ASTM E84 FLAME/SMOKE RATING OF 25/50.
2. ALL INSULATION THICKNESSES SHALL MEET ASHRAE 90.1 - 2007 REQUIREMENTS AT A MINIMUM.
3. REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.



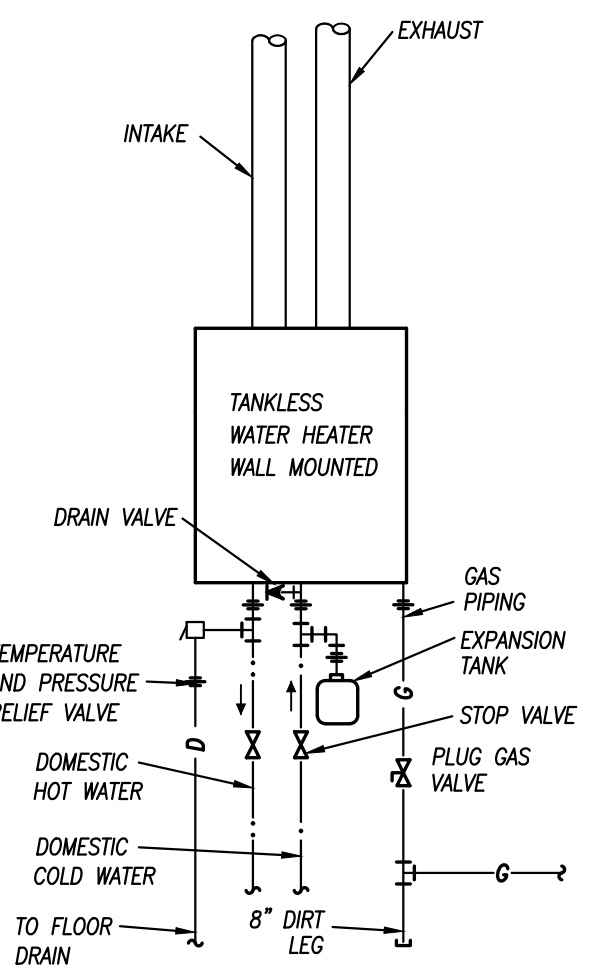
HAND WASHING SINK/LAVATORY TEMPERED WATER SCHEMATIC
NOT TO SCALE



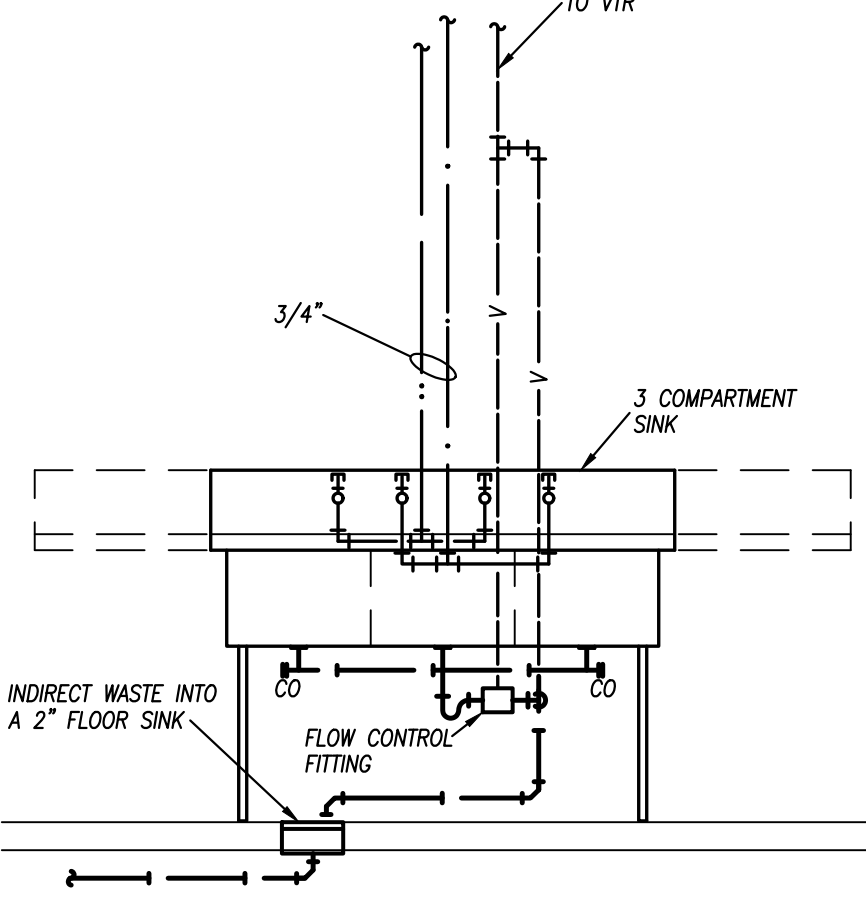
RECIRCULATING PUMP DETAIL
NOT TO SCALE



TYPICAL GAS CONNECTION
NOT TO SCALE



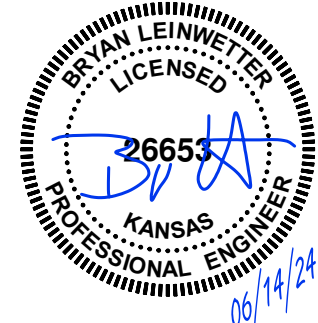
TANKLESS GAS WATER HEATER DETAIL
NO SCALE



#15 3-COMPARTMENT SINK DETAIL
NO SCALE

David Eskov
Architect
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Olathe, KS 66061
eskovarch@outlook.com
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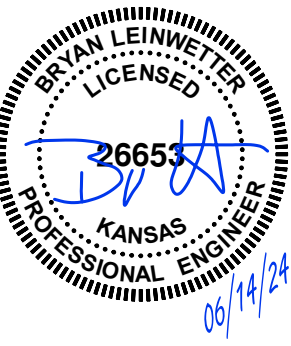
Revisions
JUNE 28, 2024

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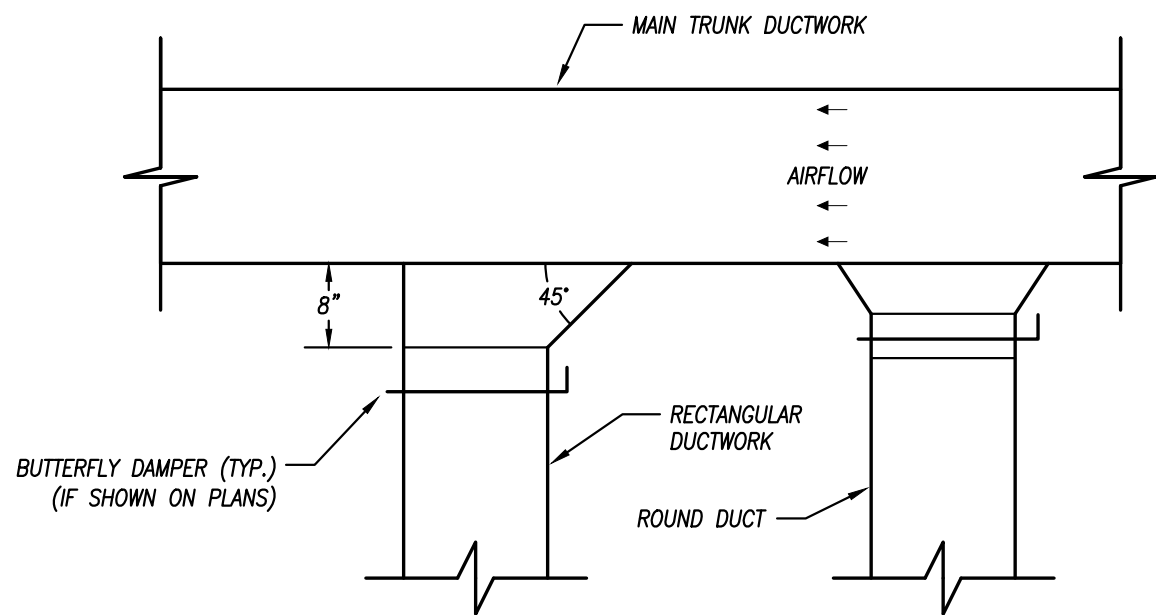
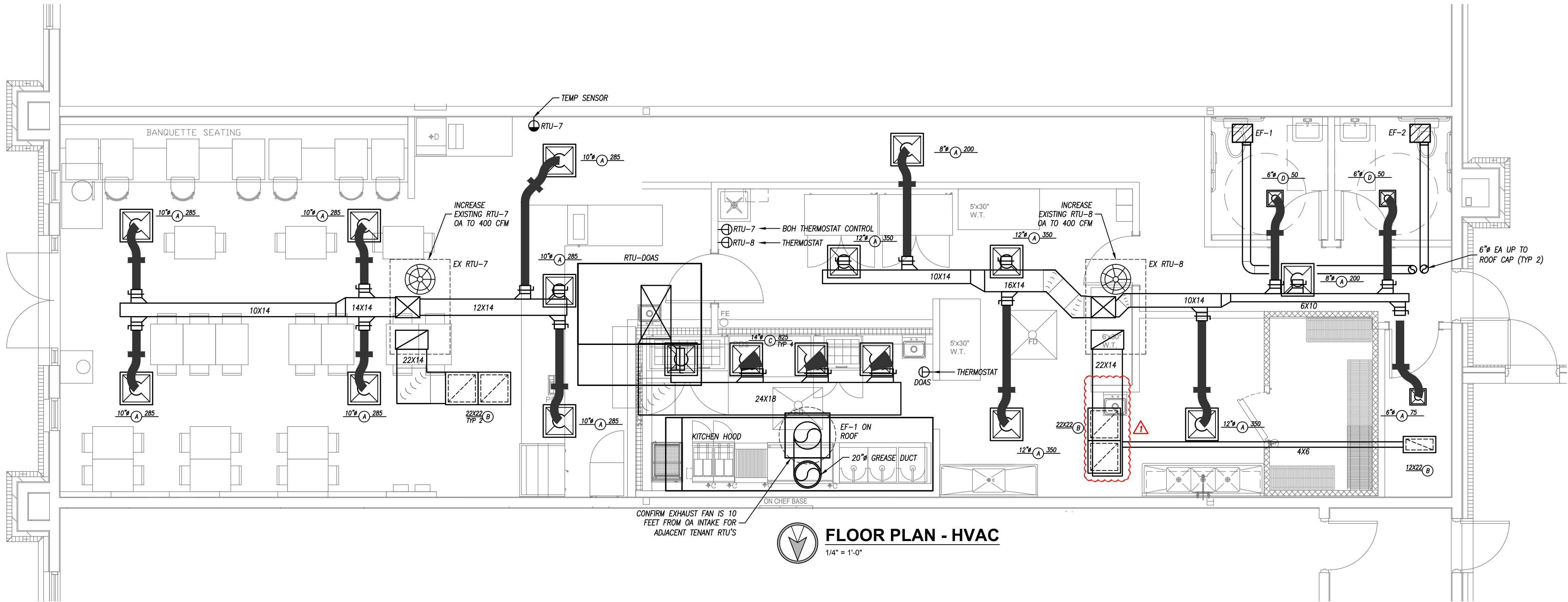
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P1.0
PLUMBING PLAN



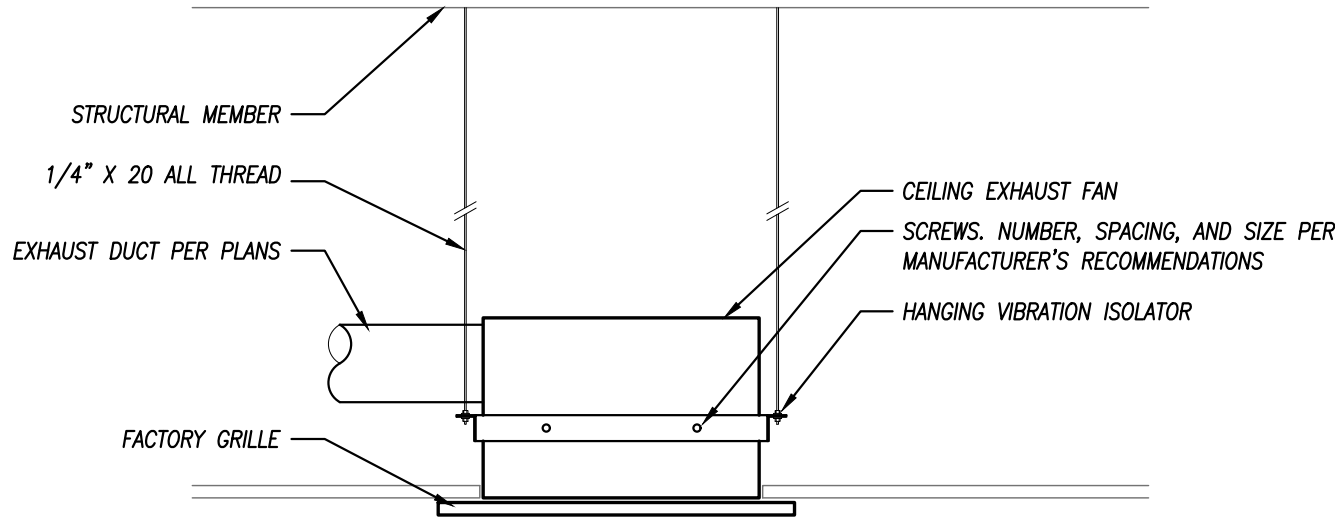
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DUCTWORK TAKEOFF
NOT TO SCALE



CABINET EXHAUST FAN MOUNTING DETAIL
NOT TO SCALE

GRILLE, REGISTER & DIFFUSER SCHEDULE

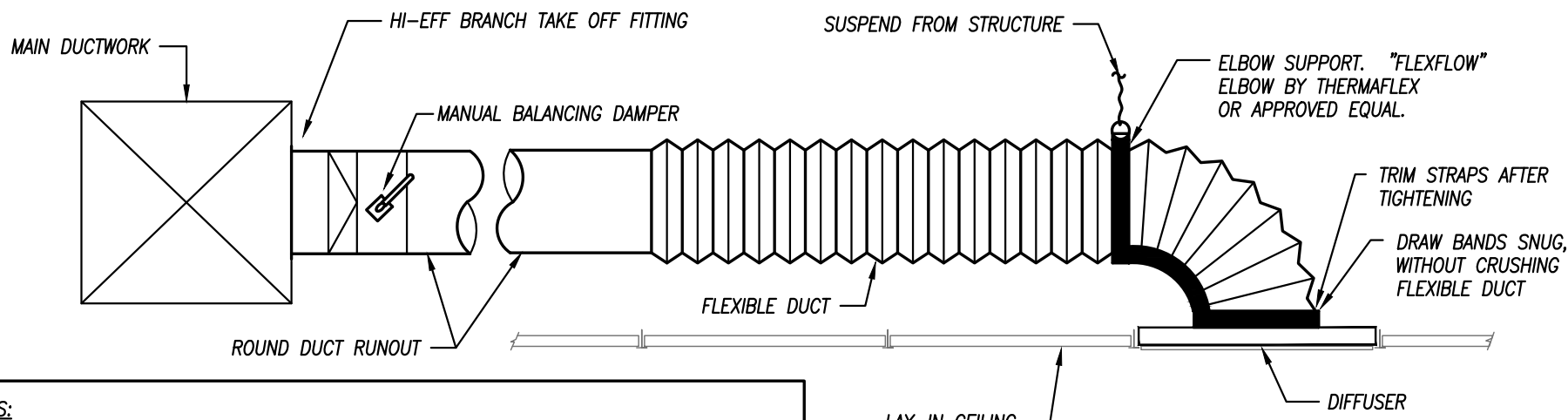
PLAN MARK	MANUFACTURER	MODEL NUMBER	SERVICE	MOUNT TYPE	VOLUME DAMPER	MATERIAL	MATERIAL COLOR	NOTES
A	PRICE	SMD-3P	SUPPLY	GRID	NO	STEEL	WHITE	1
B	PRICE	5.35-0	RETURN	GRID	NO	STEEL	WHITE	1
C	PRICE	PDDR	SUPPLY	GRID	NO	ALUMINUM	WHITE	
D	PRICE	SMD-1	SUPPLY	FLANGE	YES	STEEL	WHITE	

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

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 TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY
1	H-1	CAPTRATE SOLD FILTER	11	20'	16'	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	RIGHT	12"x54"x24'	TANK FS	4.0/4.0		

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)	SDNES
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	MDCP	OUTSIDE AIR		LEAVING AIR			CAPACITY		IEER	ISMRE	DISCHARGE		CAPACITY		MOISTURE REMOVAL RATE		GAS TYPE	INPUT BTU _s	OUTPUT BTU _s	TEMP RISE	REQUIRED INPUT GAS PRESSURE
																DB	WB	DB	WB	DP	TOTAL	SENS.			DB	WB	DESIRED	MAX							
2	MAU-1	1	CAS-HVAC3-1400-18-20T-DDAS	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

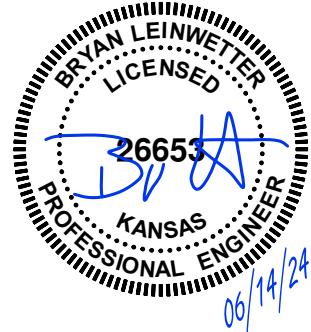
FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL – DU/DR240HFA – INSTALLED AT PLANT – FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY
2	MAU-1	1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, 0 TO 10" WC, 1 FURNACE
		1	TOTAL CFM MONITORING
		1	INTAKE FIRESTAT SET TO 135°F
		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	DN 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.

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

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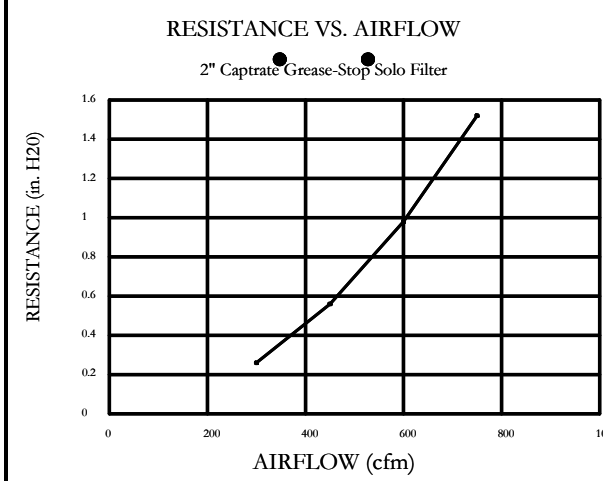
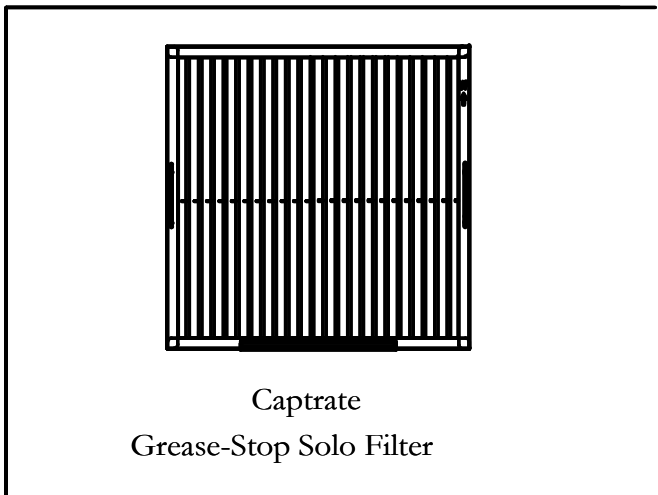
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JUNE 14, 2024

Revisions

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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 REG818CAPTIVEAIRE.COM



Filter Detail

CAPTRATE®

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

SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED

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

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

GREASE-STOP SOLO FILTER IS ETL LISTED UNDER FILE NUMBER 3064404-001 AND COMPLIES WITH UL1046 STANDARD, NSF STANDARD #2, NFPA 96 AND IBC.

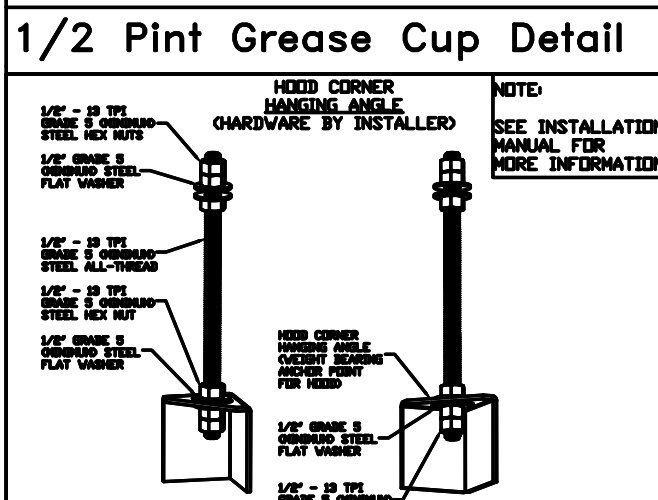
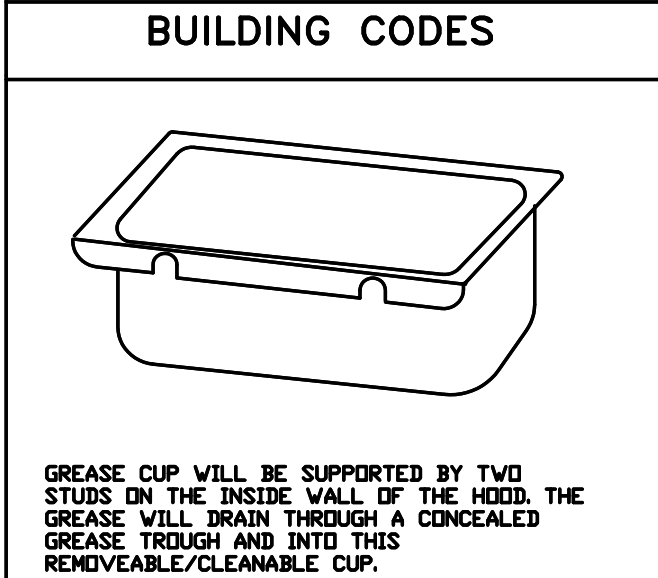
* CAPTIVE-AIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1600-1800 FPM AND A SUPPLY VELOCITY OF 1000 FPM. PLEASE CONSULT FACTORY FOR MAXIMUM ALLOWABLE DUCT SIZES.

CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

- NFPA #96
- B.O.C.A. #93-16
- I.C.B.O. 34416
- SBCCI PBT & CSI NO. 83137
- ETL LISTED 3064404-001
- LOS ANGELES #960090
- ETL IS LISTED TO UL STANDARDS

Intertek

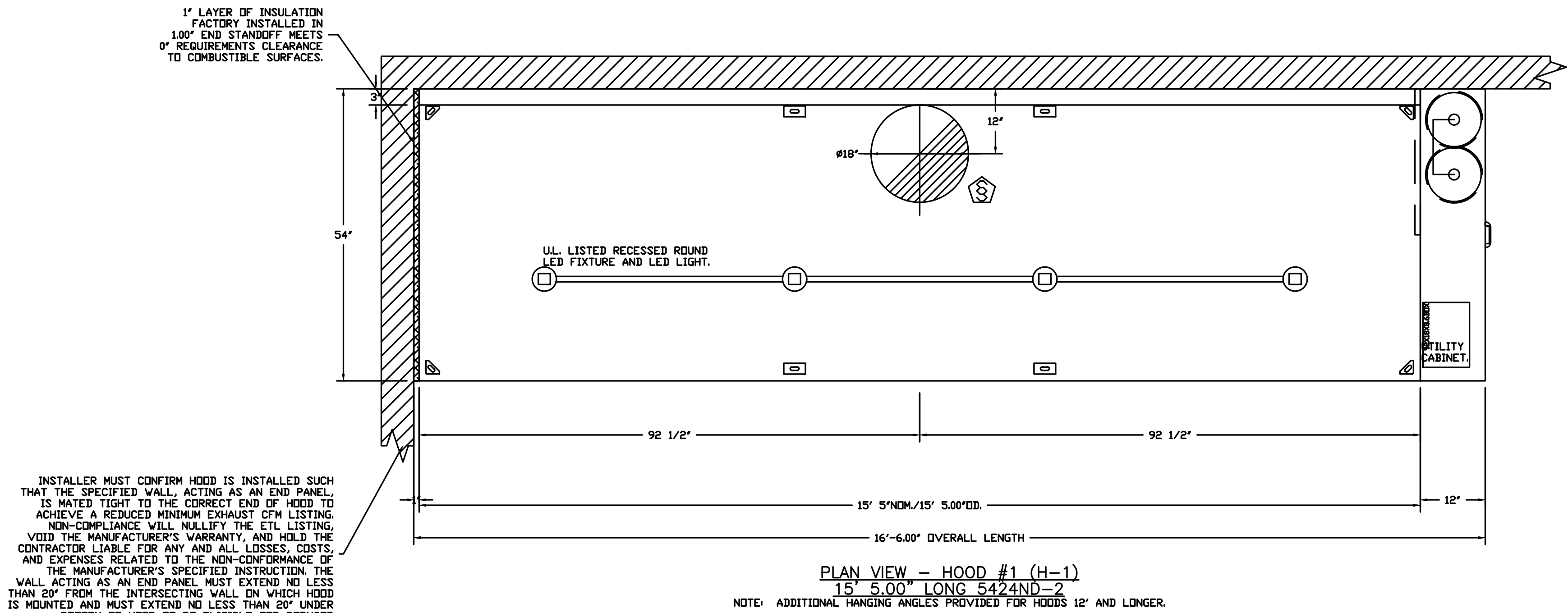


ND-2 HANGING ANGLE DETAIL

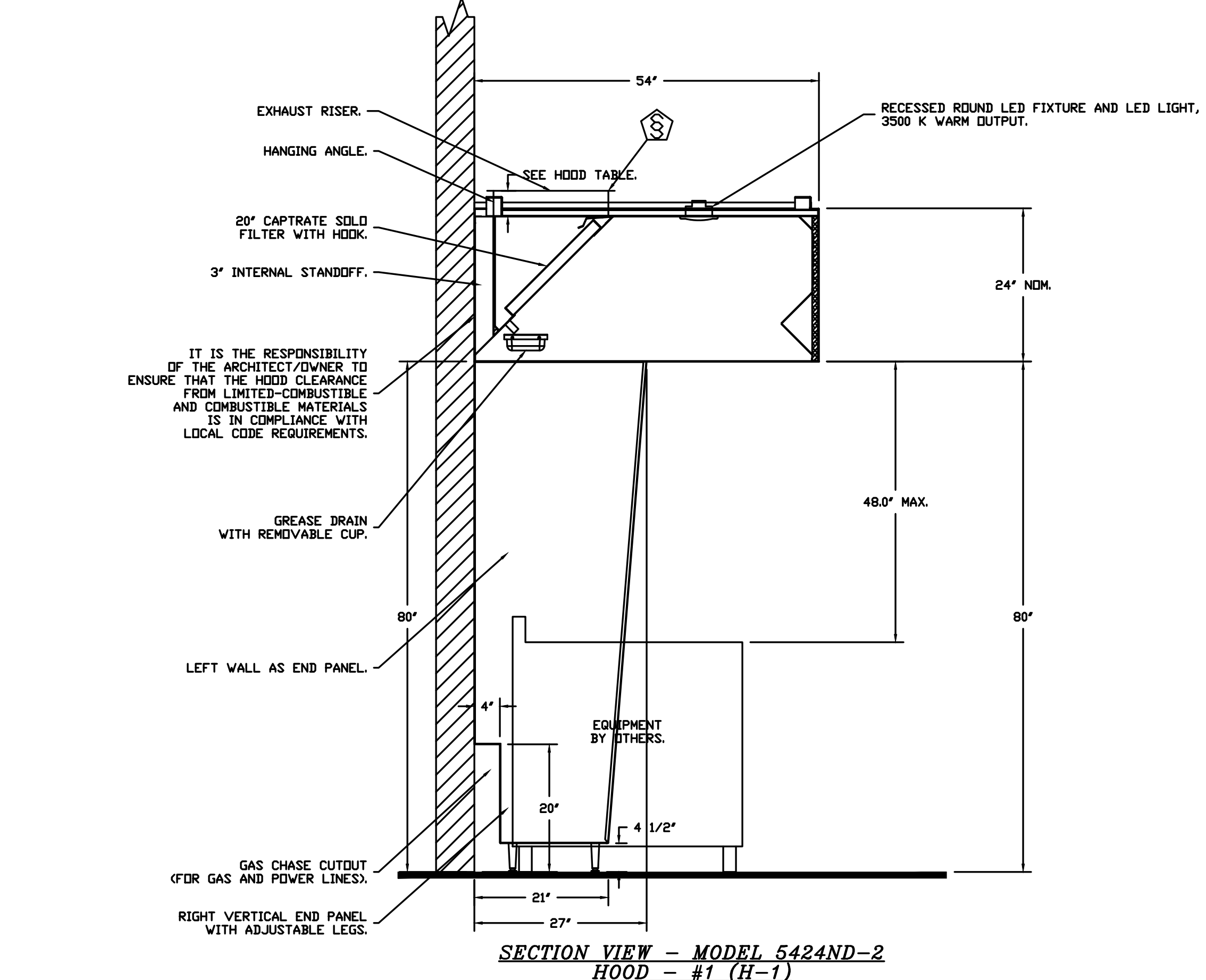
HANGING ANGLES WILL BE LOCATED IN THE FOLLOWING LOCATIONS FOR WALL CANOPIES

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"
Wall Exhaust With MUA		2.25"	2.25"
Back Shelf Exhaust Only	4.166"	2.25"	2.25"
Back Shelf Exhaust With MUA		2.25"	2.25"
Condensate	2.25"	2.25"	

HANGING ANGLE LOCATIONS



INSTALLER MUST CONFIRM HOOD IS INSTALLED SUCH THAT THE SPECIFIED WALL, ACTING AS AN END PANEL, IS MATED TIGHT TO THE CORRECT END OF HOOD TO ACHIEVE A REDUCED MINIMUM EXHAUST CFM LISTING. NON-COMPLIANCE WILL NULLIFY THE ETL LISTING, VOID THE MANUFACTURER'S WARRANTY, AND HOLD THE CONTRACTOR LIABLE FOR ANY AND ALL LOSSES, COSTS, AND EXPENSES RELATED TO THE NON-COMFORMANCE OF THE MANUFACTURER'S SPECIFIED INSTRUCTION. THE WALL ACTING AS AN END PANEL MUST EXTEND NO LESS THAN 20\"/>



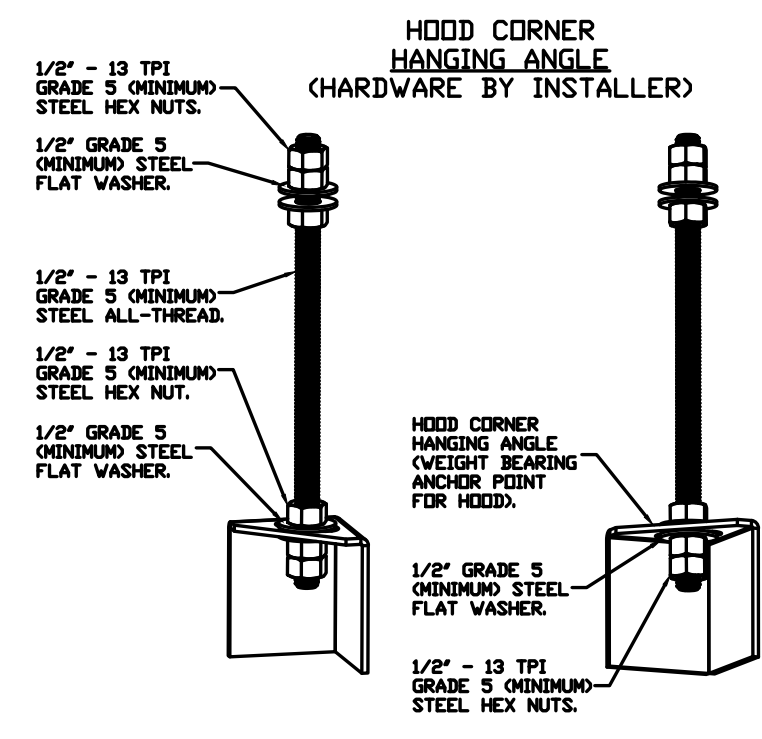
NOTE

ALL WALLS THAT COME WITHIN 18\"/>

IF WOOD STUDS FACTORY INSTALLED INSULATION REQUIRED, PLEASE ADVISE CAPTIVE AIRE PRIOR TO FABRICATION.

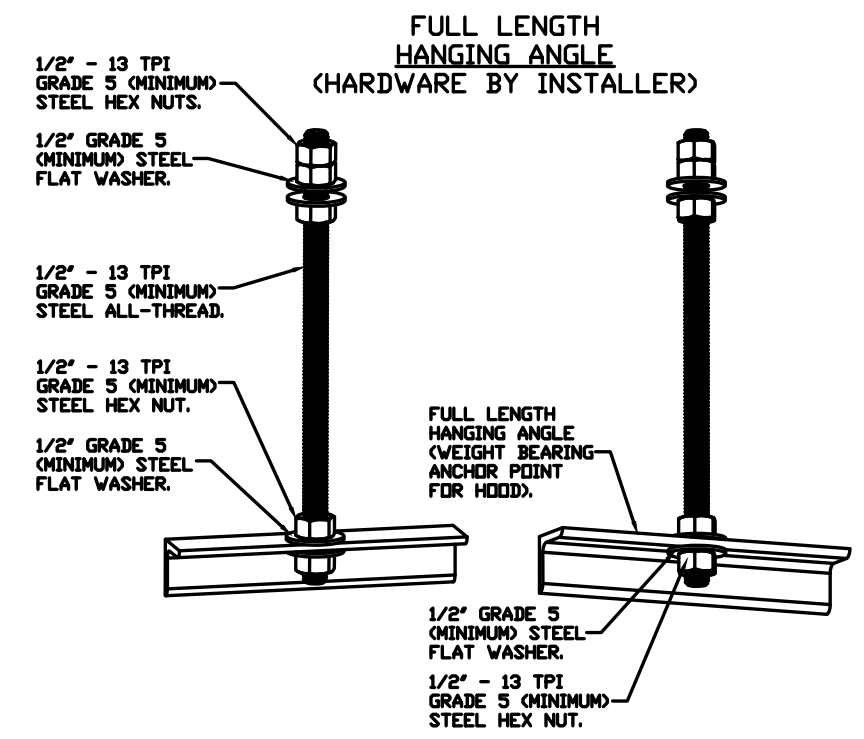
NOTE: Exhaust Collar Must be Factory Installed. If a Different Size Or Location is Required, Please Note Change On Submittal.

Rear Discharge Is Available. Contact CaptiveAire For Possible Locations.



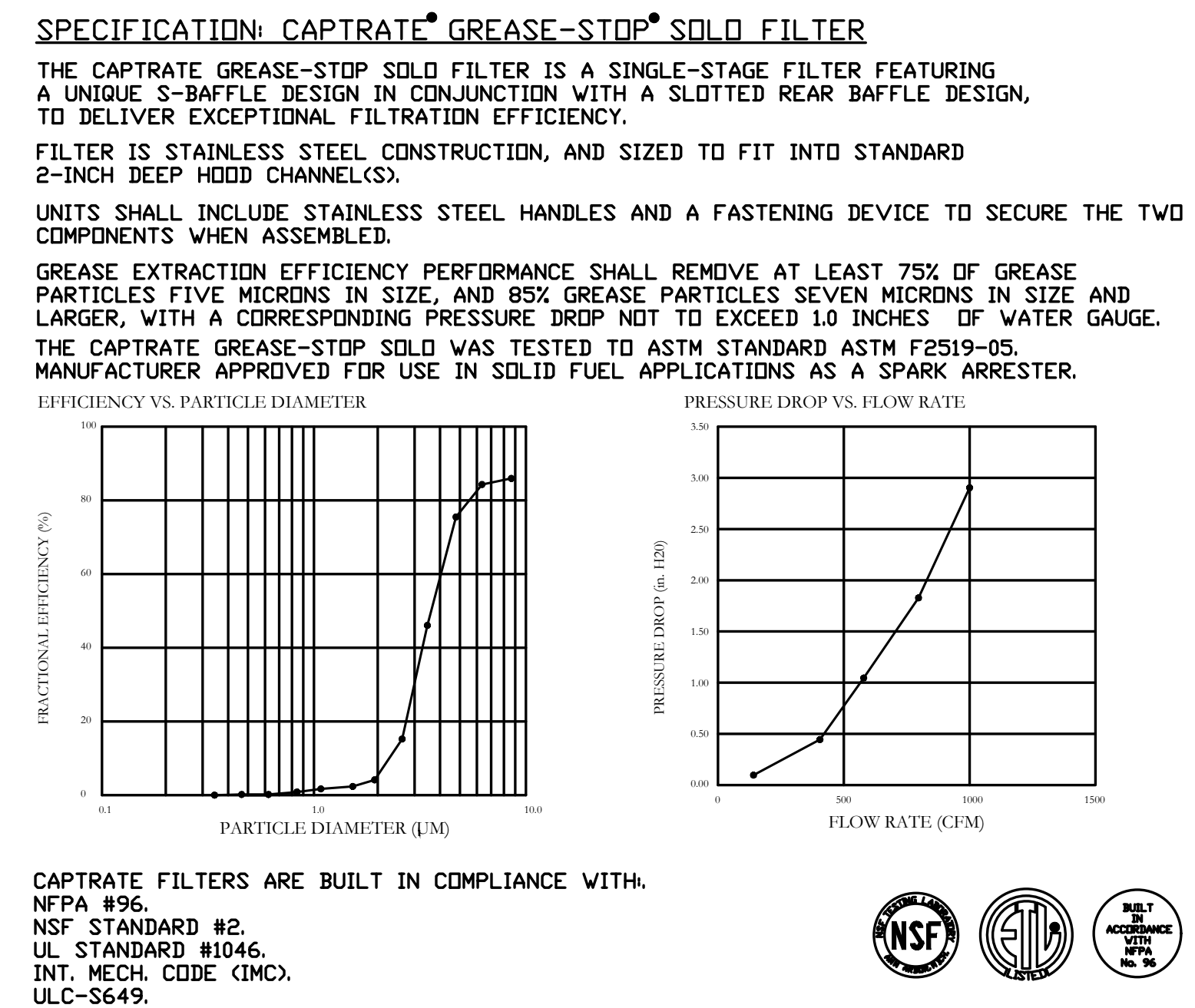
ASSEMBLY INSTRUCTIONS

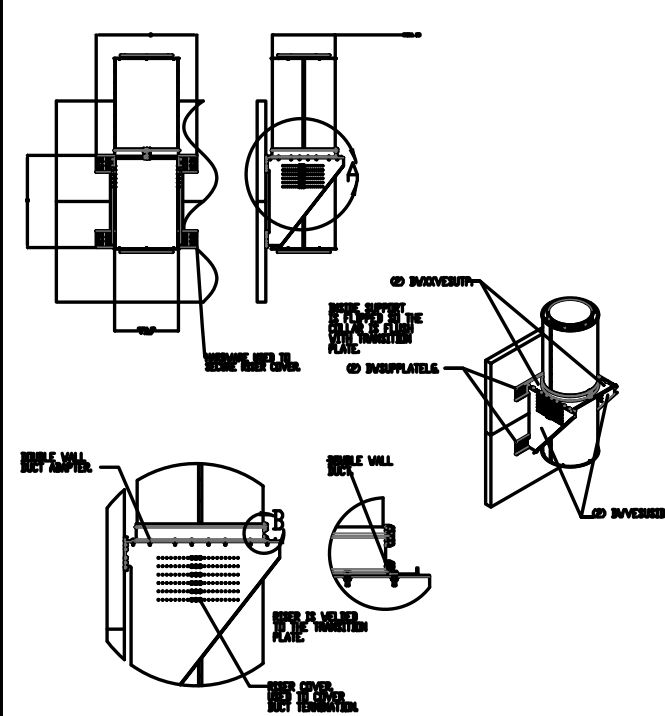
HANGING ANGLE MUST BE SUPPORTED WITH 1/2\"/>



ASSEMBLY INSTRUCTIONS

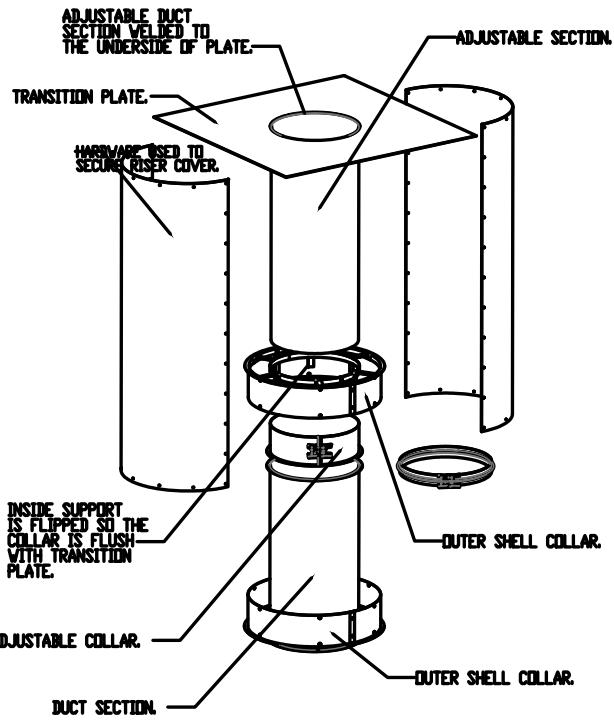
HANGING ANGLE MUST BE SUPPORTED WITH 1/2\"/>



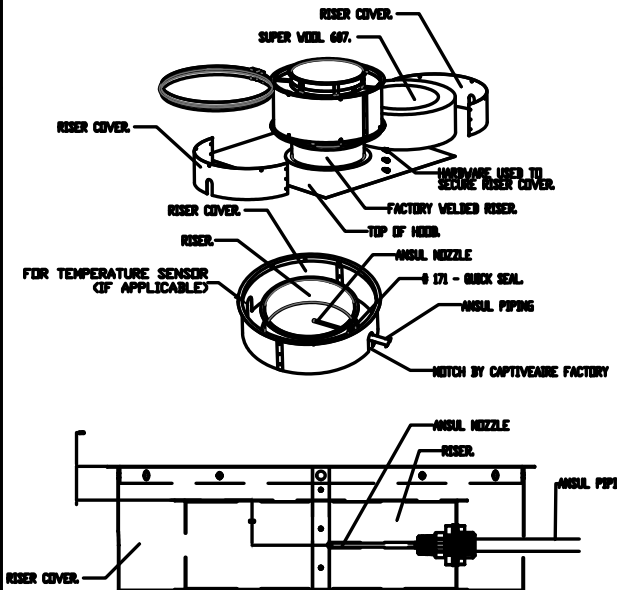


VERTICAL SUPPORT MAXIMUM SPACING (FT)	
DUCT DIAMETER	MAXIMUM SPACING (FT)
8"	7'
10"	7'
12"	7'
14"	7'
16"	7'
18"	5'
20"	5'
22"	5'
24"	5'

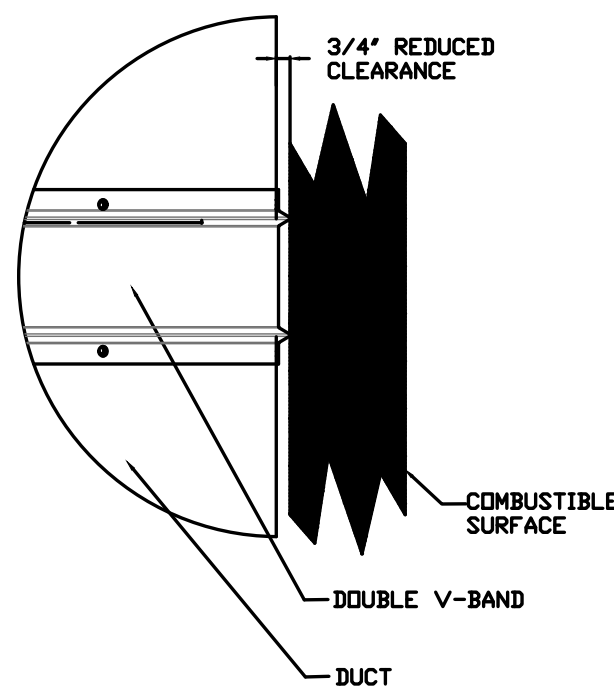
DUCT SUPPORT ASSEMBLY



TRANSITION PLATE DETAIL



OUTER DUCT BAND DETAIL



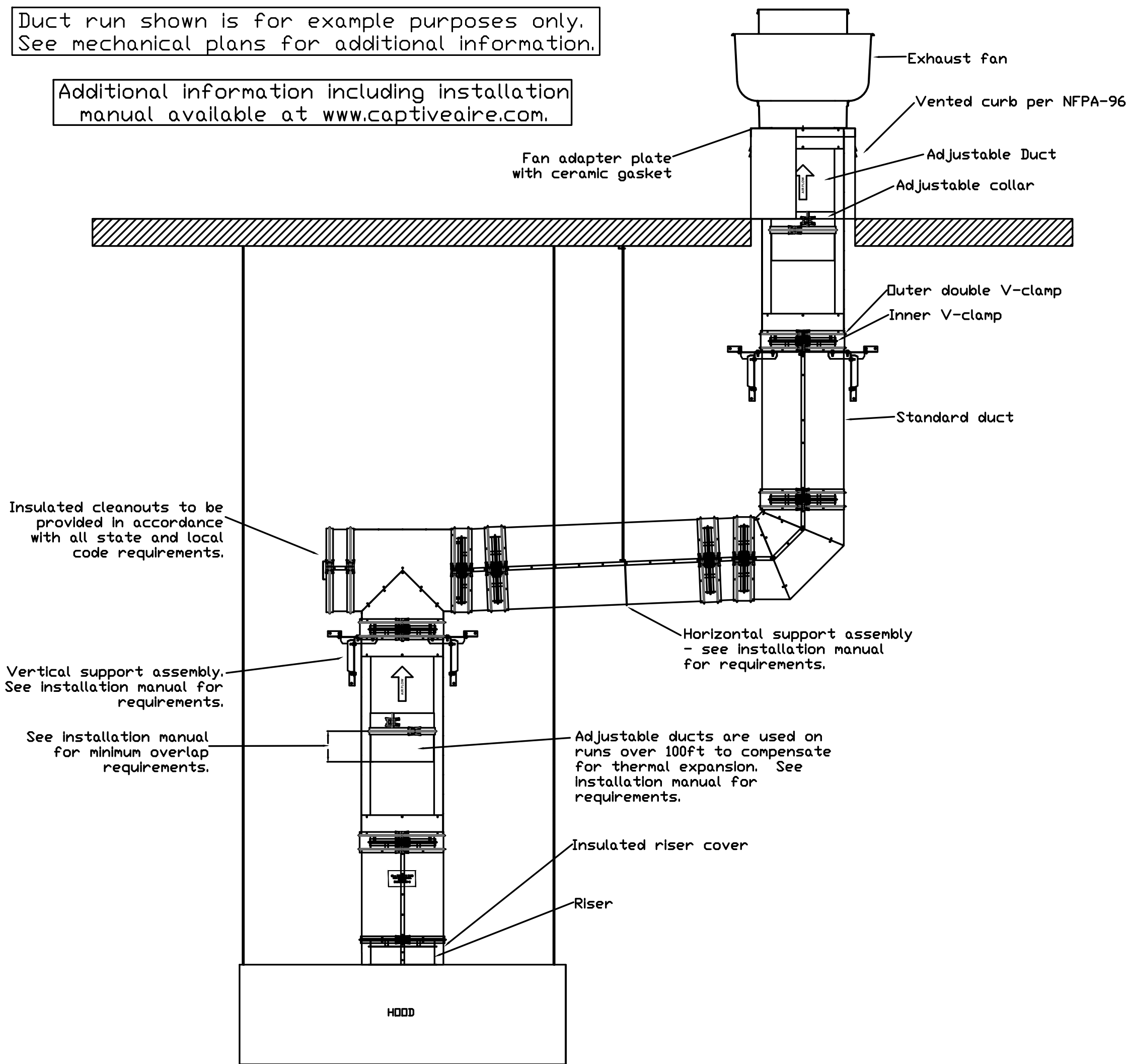
REDUCED CLEARANCE DETAIL

- DUCT RUN TO BE FIELD VERIFIED, PARTS SUBJECT TO CHANGE
- DUCT RUNS TO HAVE CLEANOUTS EVERY 10', AND EVERY CHANGE OF DIRECTION UNLESS SPECIFIED OTHERWISE.
- 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".
- ADJUSTABLE DUCT OVERLAP TO BE NO LESS THAN 6", UNLESS INNER DIAMETER IS 8" (4" OVERLAP) OR 10" (5" OVERLAP).
- 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

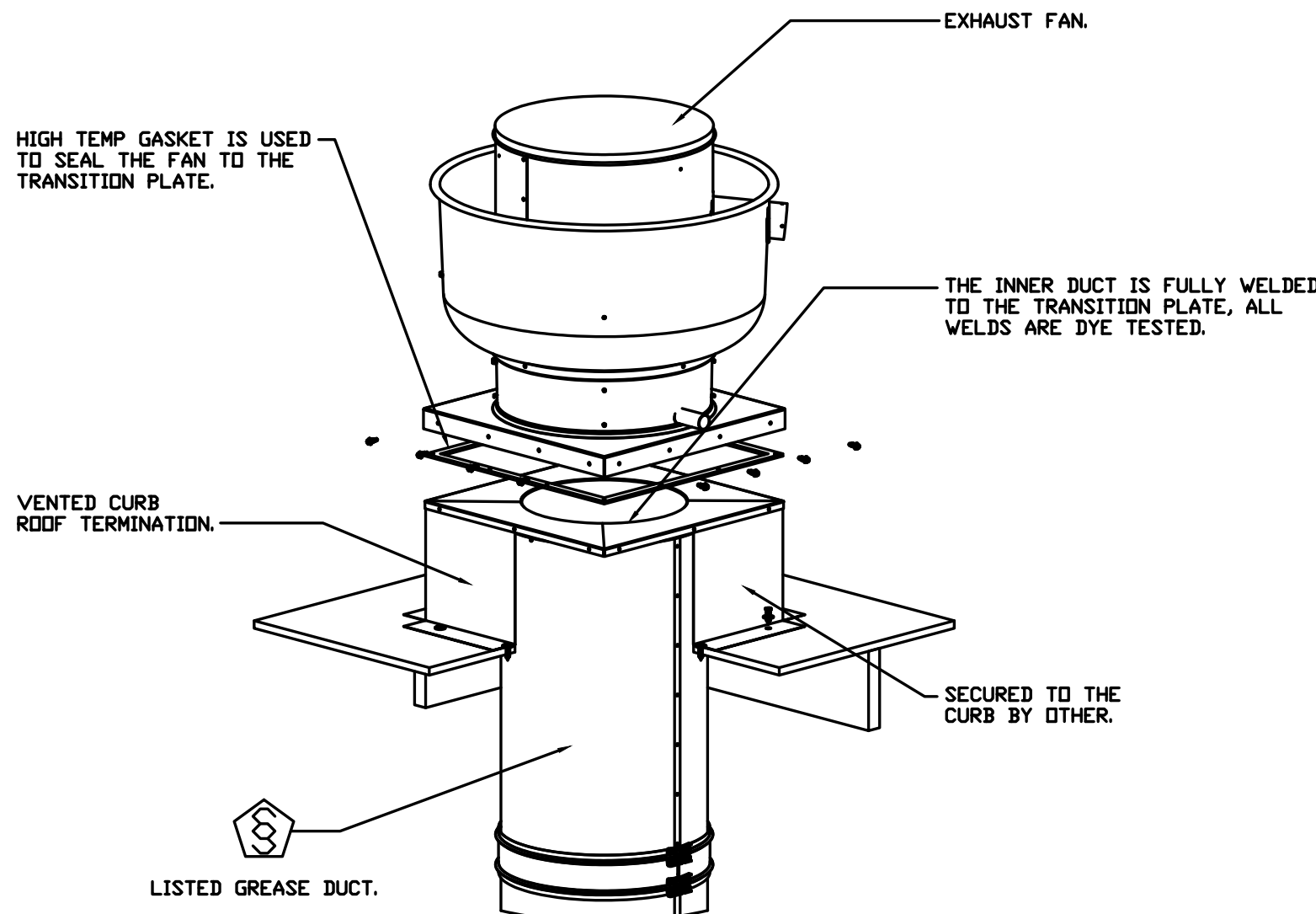
Furnish double wall, factory built grease duct for use with Type I kitchen hoods, which conforms to the requirements of NFPA-96. Products shall be ETL listed to UL-1978 and UL-2221 for venting air and grease vapors from commercial cooking operation. Models DW-2R, 3R and 3Z are used for grease duct applications 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 3/4" 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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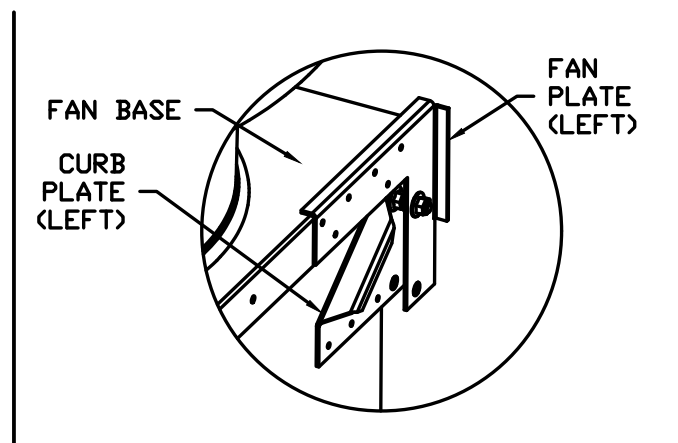


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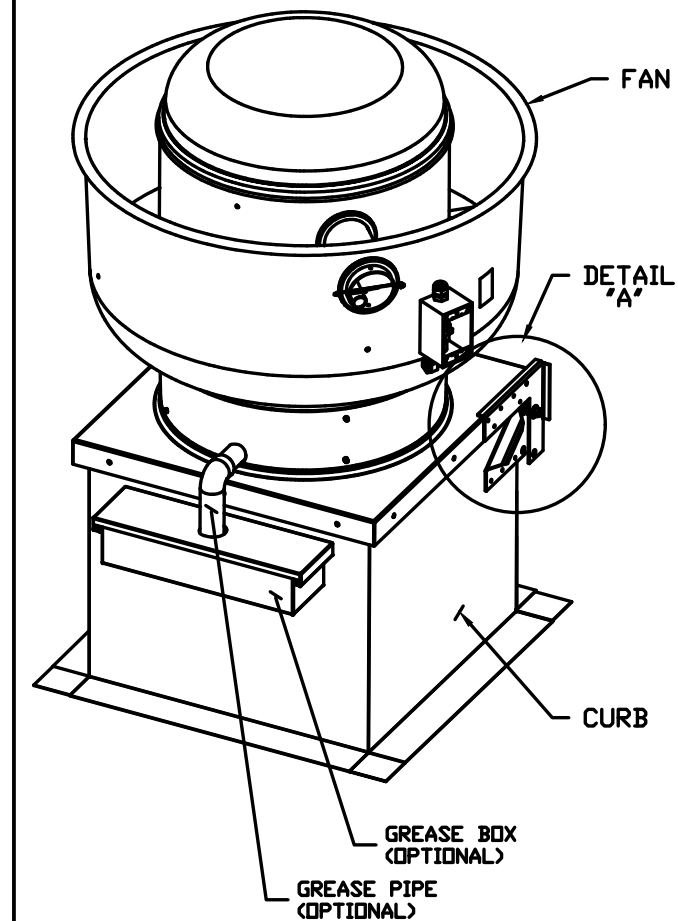
Revisions

RESTAURANT TENANT INFILL
NICK THE GREEK
STREET'S OF WEST PRYOR
XXX PRYOR
LEE'S SUMMIT, MO

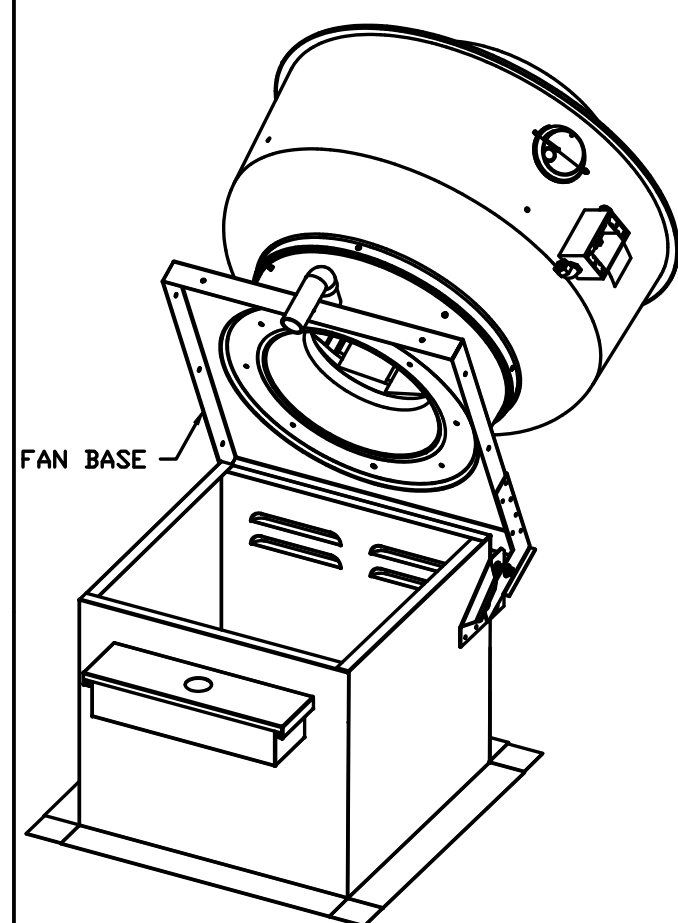
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M1.5
HVAC SCHEDULES &
DETAIL



HINGE KIT DETAIL

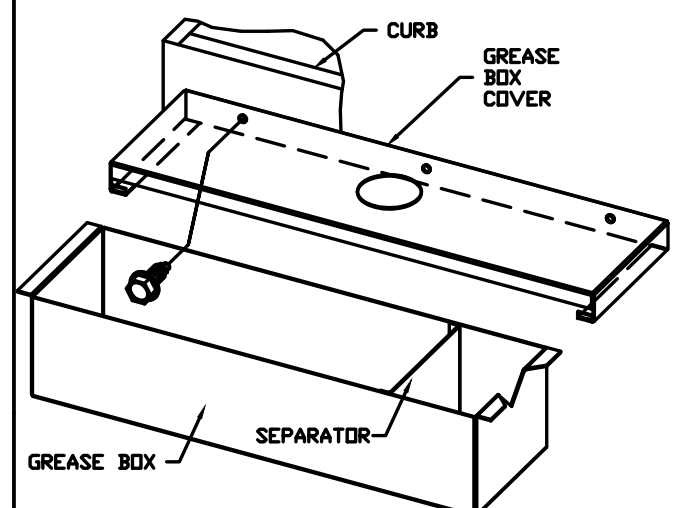


FAN IN CLOSED POSITION

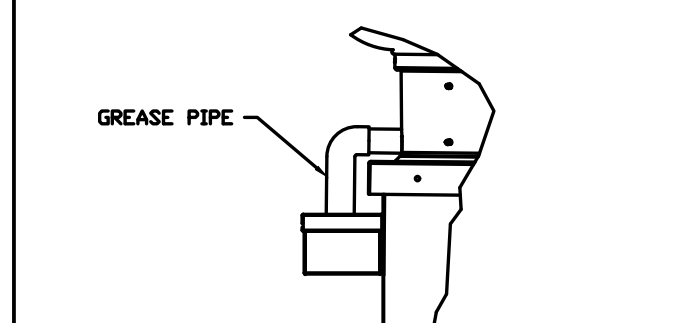


ATTENTION: INSTALLER SHOULD SUPPLY ENOUGH ELECTRICAL CORD TO LET FAN MAKE COMPLETE SWING.

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.

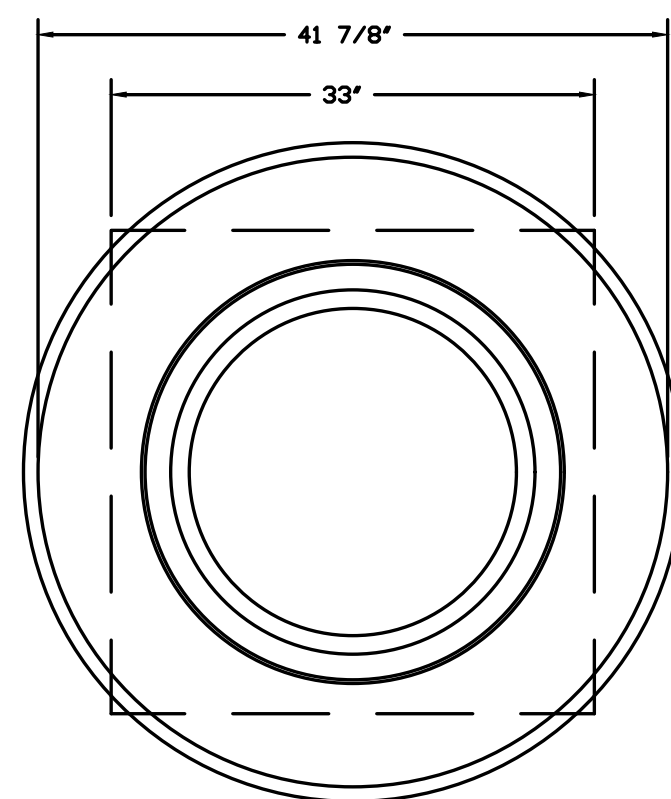
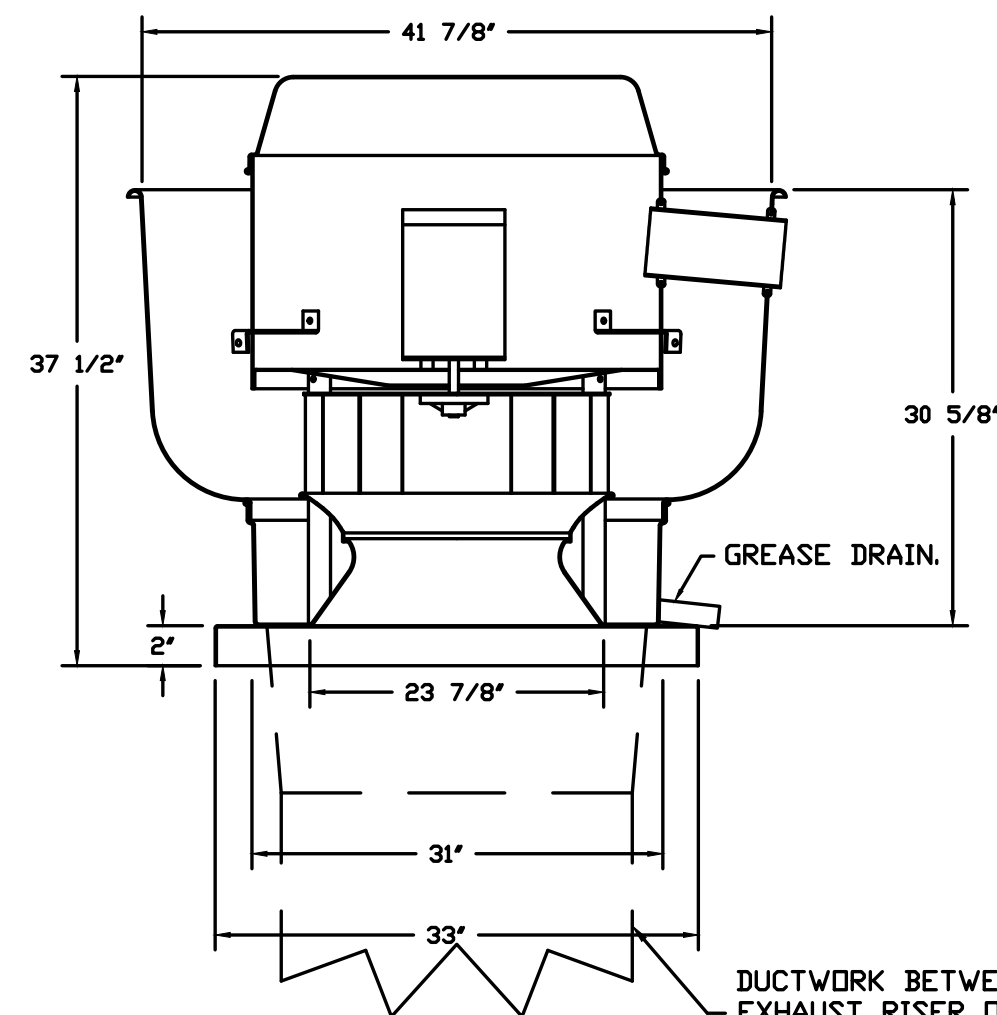


GREASE BOX INSTALLATION

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-WIRED PACKAGE AND FAN(S) SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR.

ELECTRICAL PACKAGE NOTES

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



TOP VIEW

FEATURES:

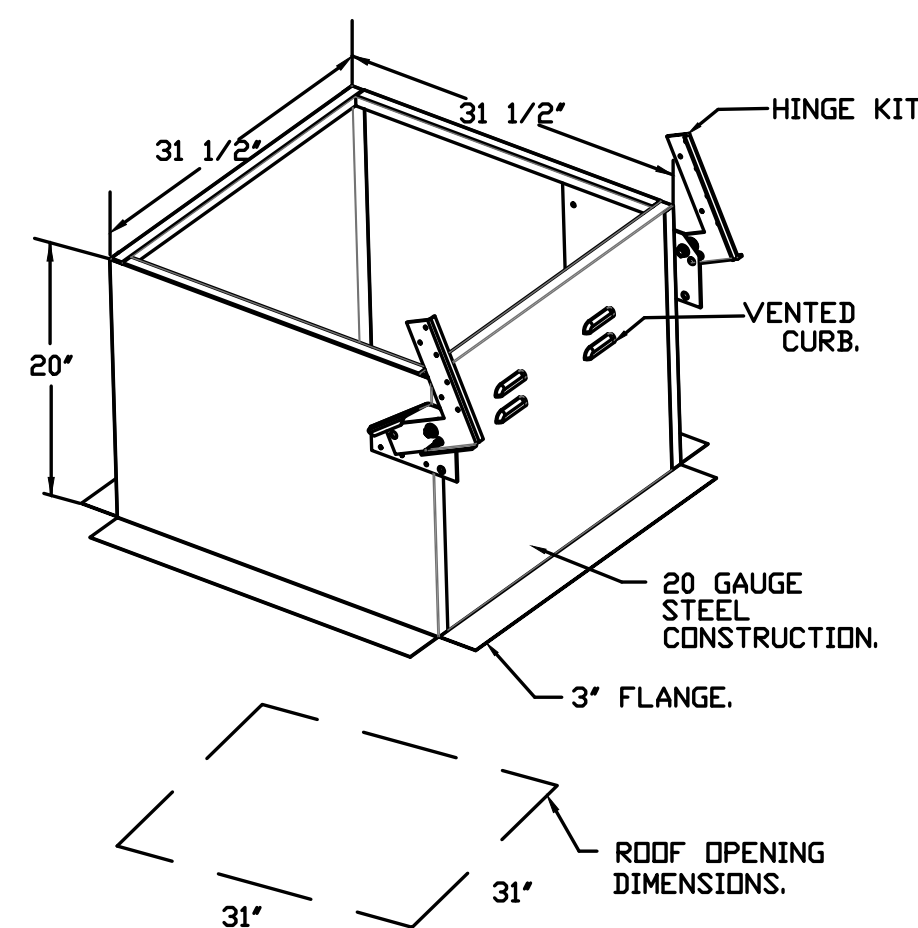
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT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

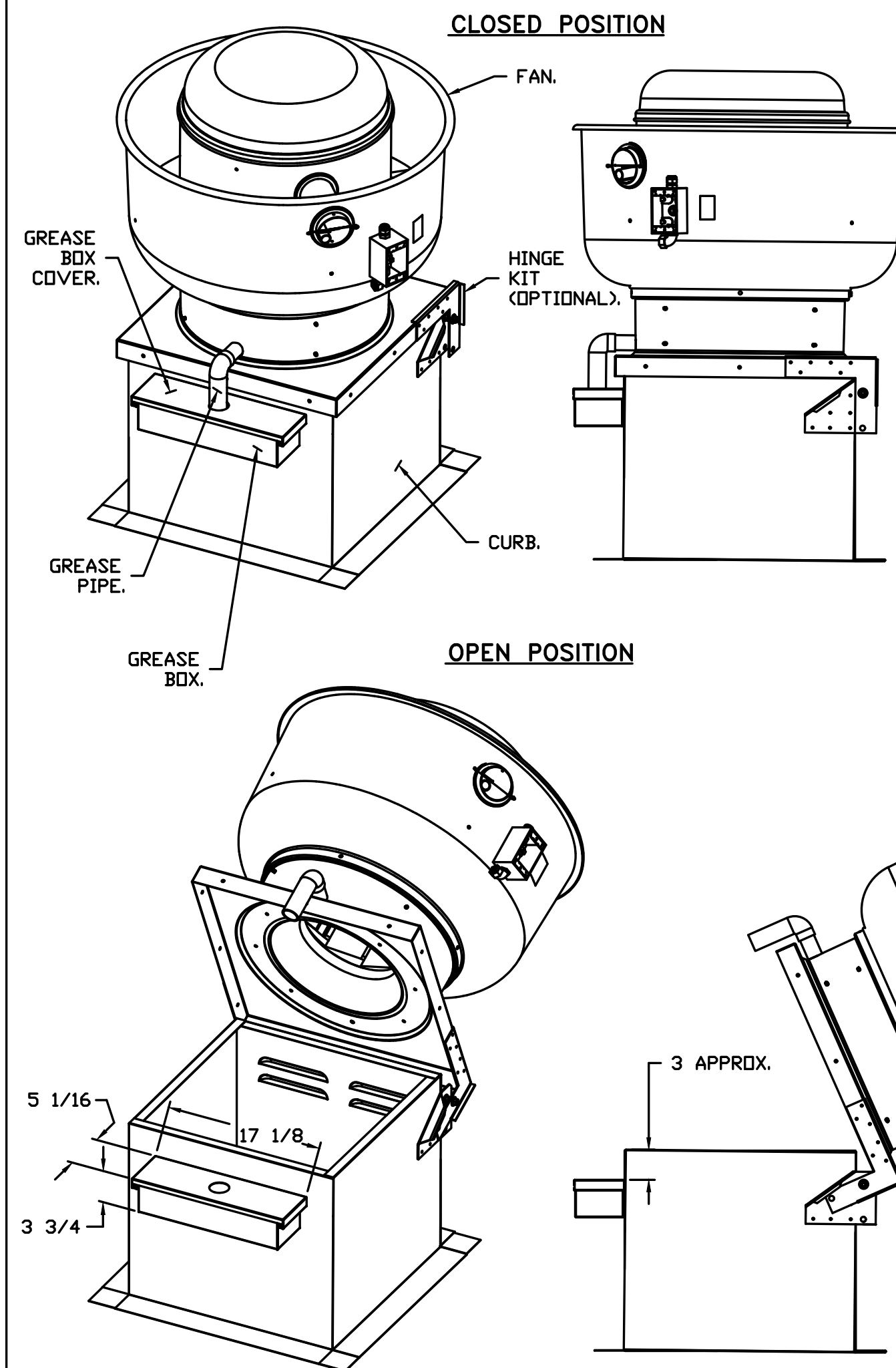
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

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



GREASE BOX INSTALLATION



*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.

STEP 2)

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

STEP 3)

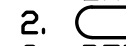
INSTALL GREASE PIPE AS SHOWN ON PIC. 4.

GREASEBOX
REV.#2 08/19/02

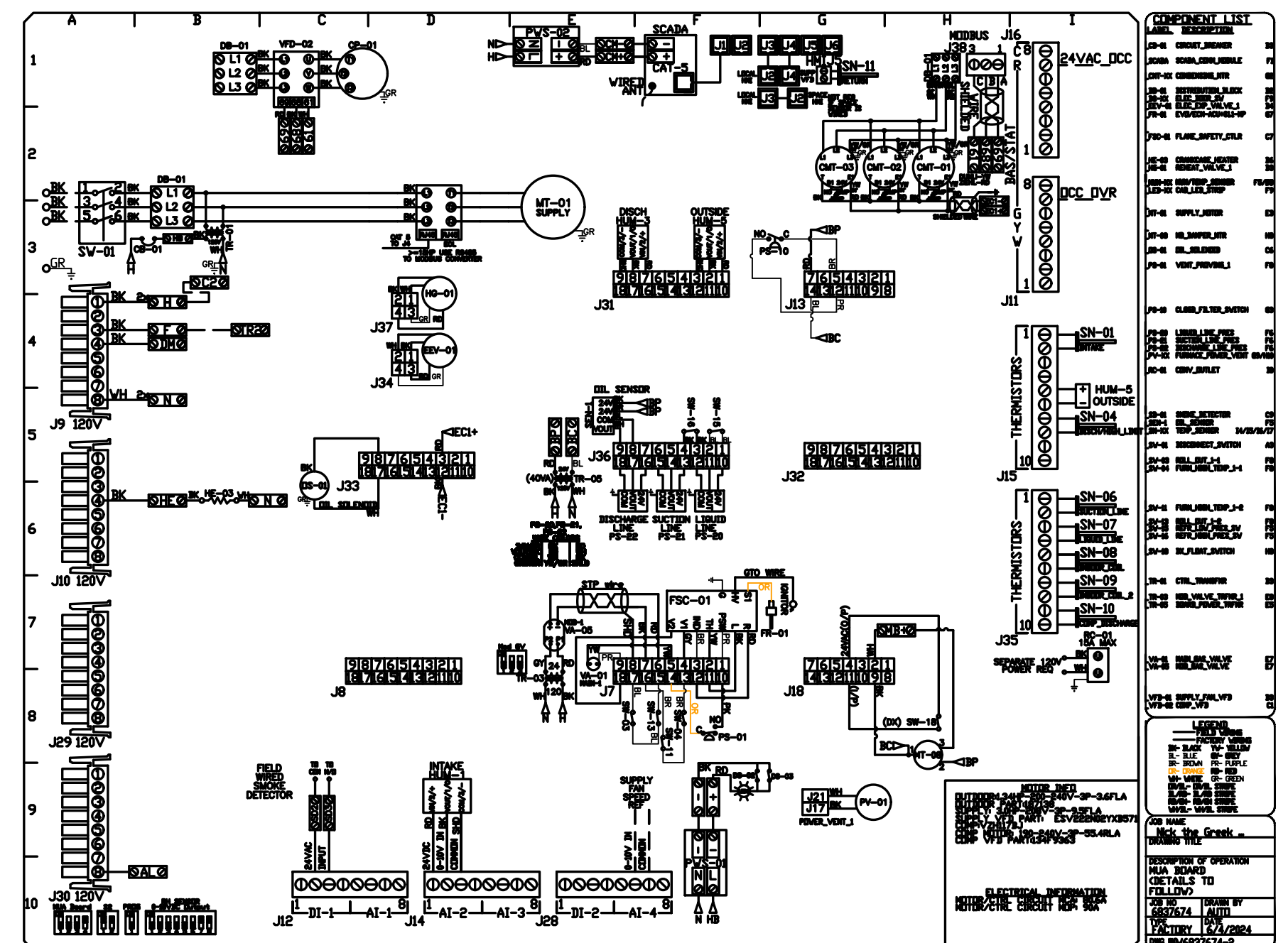
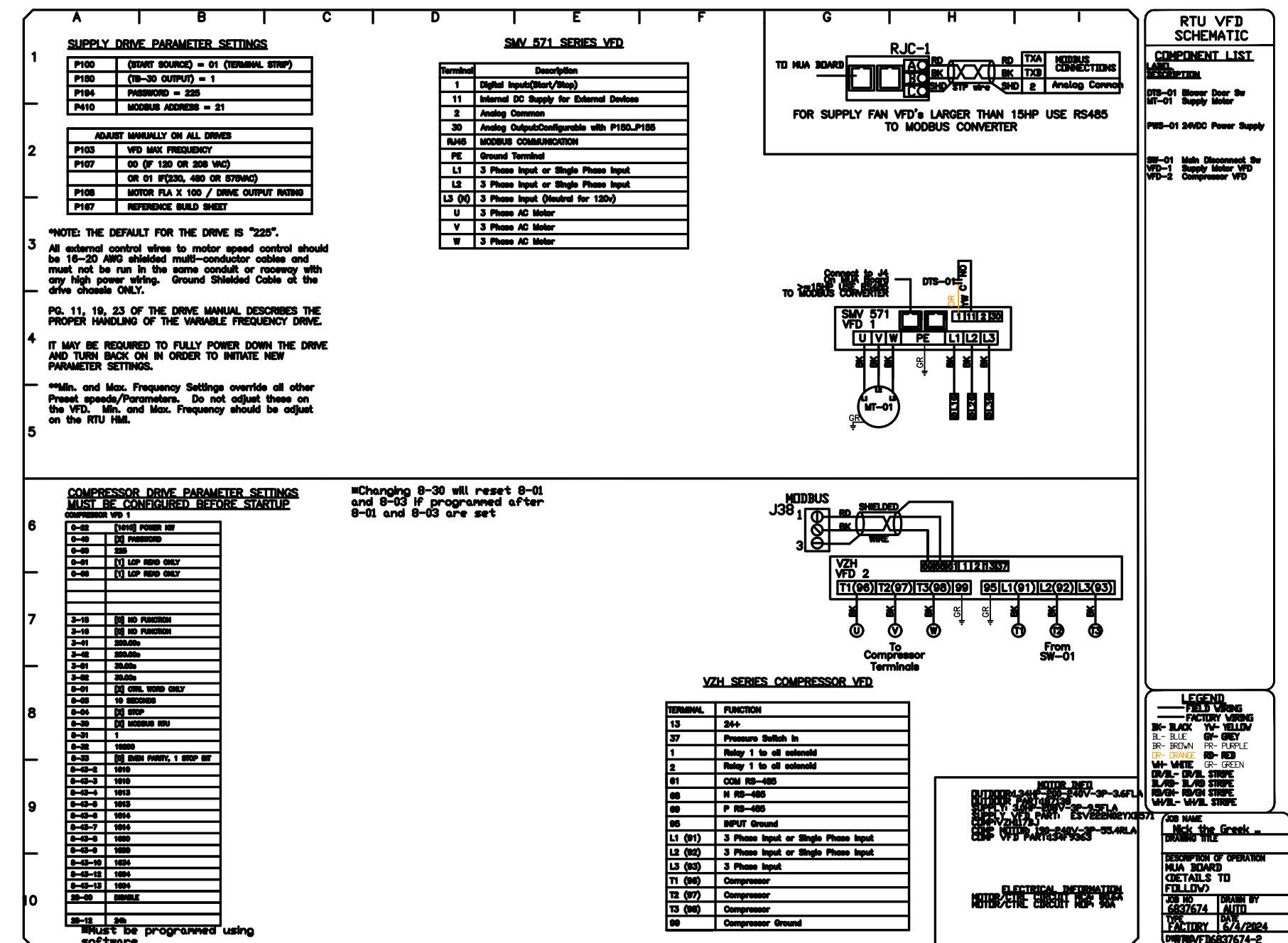
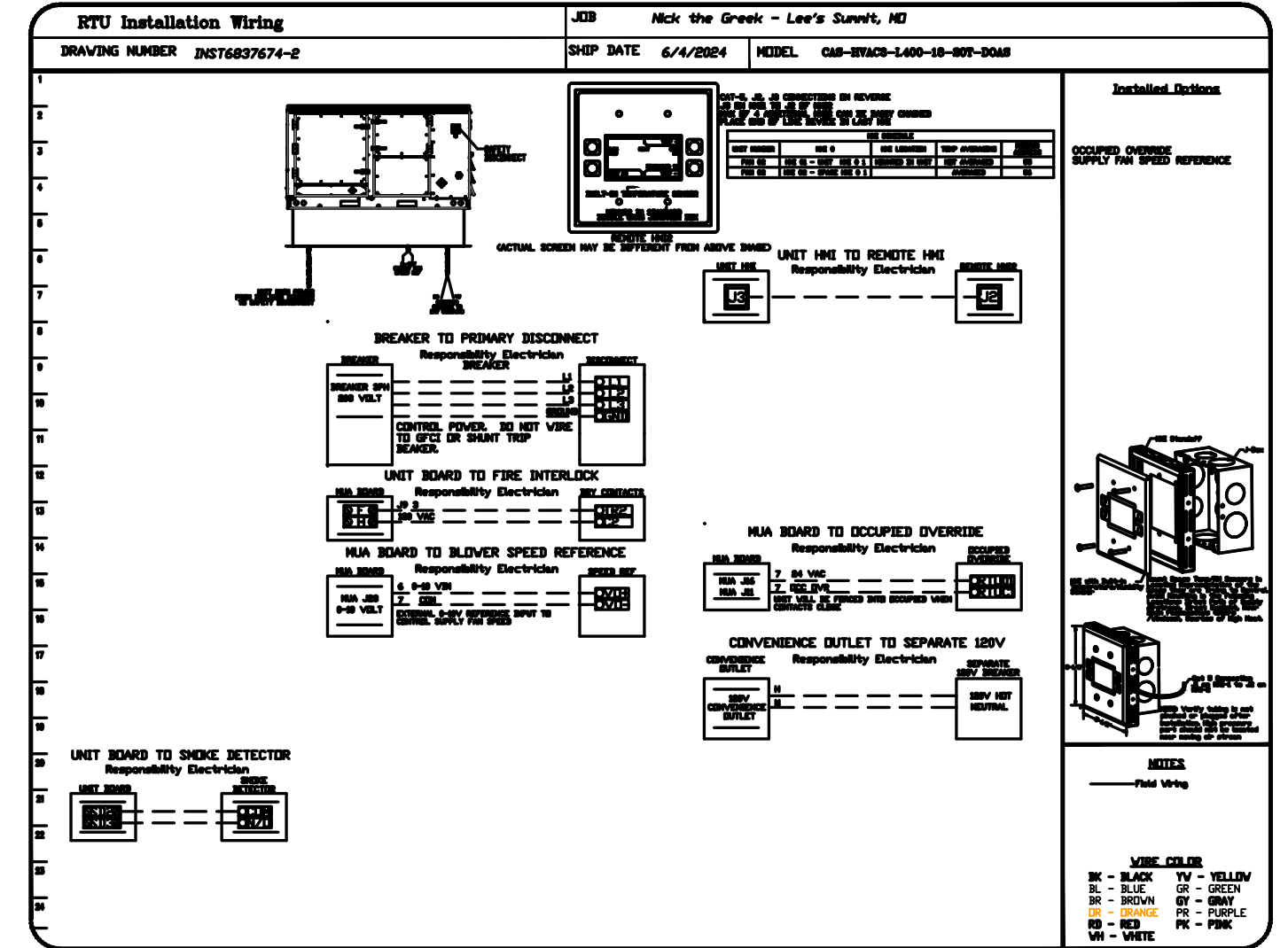
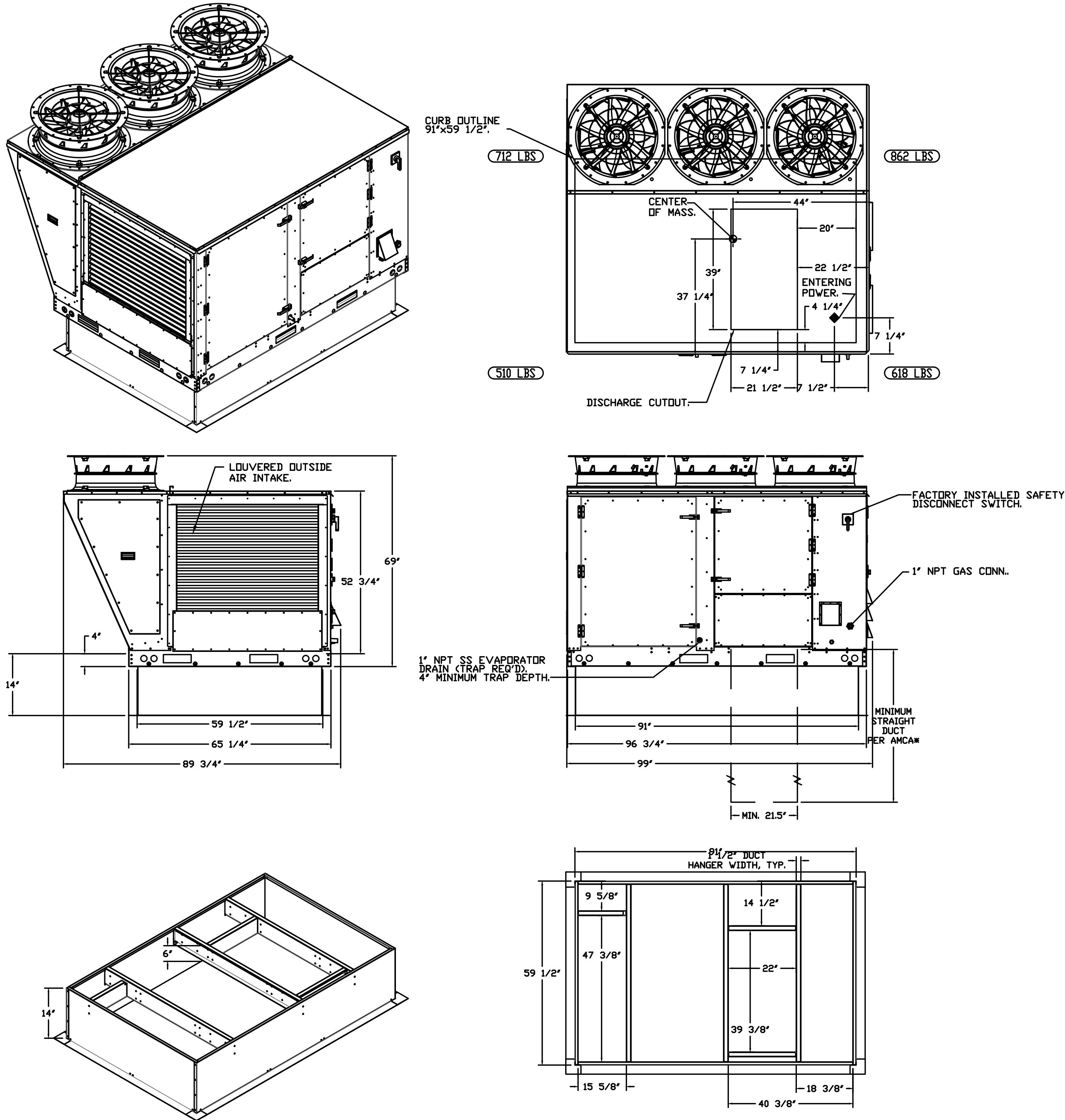


FAN #2 CAS-HVAC3-I.400-18-20T-DDAS - HEATER (MAU-1)

NOTES:

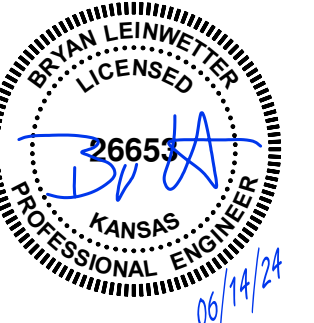
- DO NOT OBSTRUCT OUTSIDE AIR INLET, OUTSIDE AIR COIL OR OUTSIDE AIR FAN.
-  DENOTES CORNER WEIGHT.
- ROOF OPENING MUST BE 2" SMALLER THAN CURB DIMENSIONS IN BOTH DIRECTIONS.
- CONNECTION FROM BREAKER TO UNITS SAFETY DISCONNECT SWITCH TO BE COPPER WIRE ONLY.

*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'.



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

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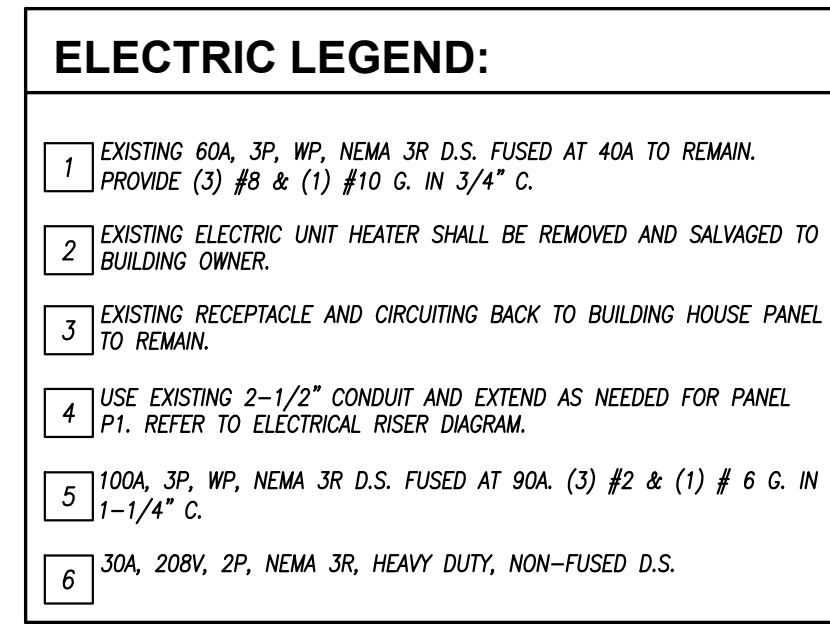
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Revisions

RESTAURANT TENANT INFILL
NICK THE GREEK
STREET OF WEST PRYOR
XXX PRYOR
LEE'S SUMMIT, MO

sheet
M1.6
HVAC SCHEDULES & DETAIL

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



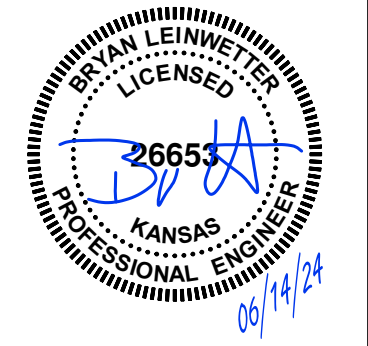
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100

sheet
E1.0
ELECTRICAL PLANS

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Revisions

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XXX PKYR
LEE'S SUMMIT, MO

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ELECTRICAL DETAILS &
SCHEDULES

LIGHT FIXTURE SCHEDULE

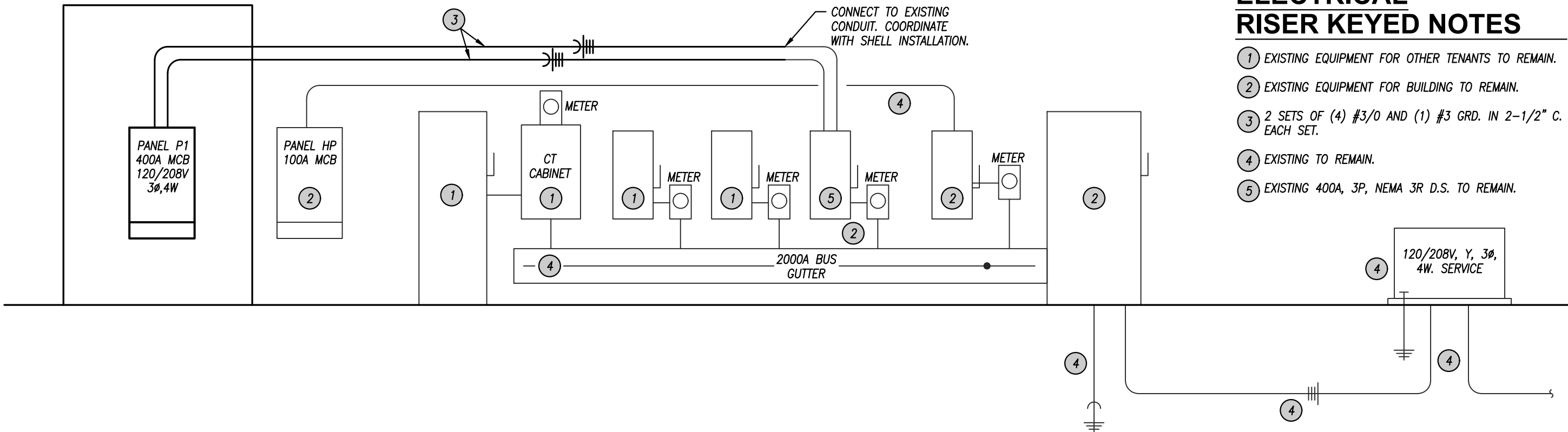
PLAN MARK	MANUFACTURER	MODEL NUMBER	MOUNTING	FINISH	WATTS/LUMENS	CR/CCT	NOTES
A	WILLIAMS	60R-TL-L20/840-DIM-UNV-LM-OF-CS-R	RECESSED	WHITE	20W/1800 LUMENS	80/4000K	1
B	LF ILLUMINATION	8121C-19C-8040-M-MW	RECESSED	WHITE	19W/2100 LUMENS	80/4000K	1
C	BREAKWATER BAY	MADERA 1-LIGHT SINGLE DOME - BKNW3435	PENDANT	CHROME	60W MAX	2700K	1
D	WILLIAMS	LPT-24S-AF1212S-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	HGXURW	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

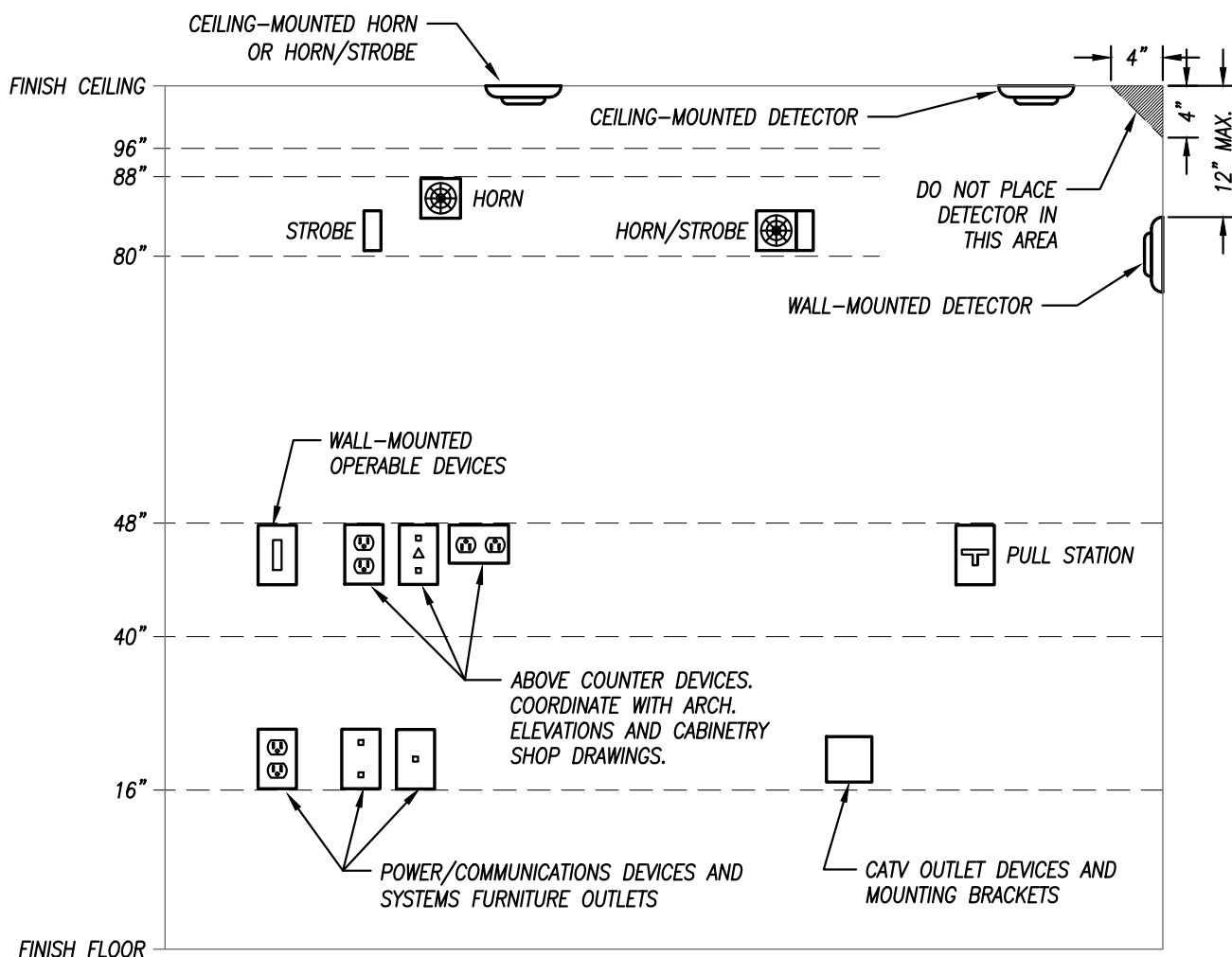
PANEL DESIGNATION: P1						CIRCUIT #	MAIN LUG AMPS: 400 MAIN BREAKER: 400 VOLTAGE: 208/120 PHASE/WIRE: 3Ø, 4W					SCCR RATING (AIC): 22,000			
MOUNTING: - LOCATION: -															
DESCRIPTION		PHASE			C/B		C/B			PHASE			DESCRIPTION		
	A	B	C	TRIP	POLE		POLE	TRIP	A	B	C				
REC: BANQUETTE SEATING	720			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				-	-	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 BACKSPASH 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 (INCLUDING 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

